



FINAL LAB REPORT

Prepared by

SGS NORTH AMERICA

Prepared for

This report is approved by

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PROJECT INFORMATION SUMMARY *(When applicable, see QC Annotations for details)*

| |
|--------------------------------|
| Client Project |
| SGS Project # |
| Analytical Protocol(s) |
| No. Samples Submitted |
| Additional QC Sample(s) |
| No. Laboratory Method Blanks |
| No. OPRs / Batch CS3 |
| Date Received |
| Condition Received |
| Temperature upon Receipt (°C) |
| Extraction within Holding Time |
| Analysis within Holding Time |



QC ANNOTATIONS:

1. Please see Appendices attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project.

APPENDIX A: GENERAL DATA QUALIFIERS / DATA ATTRIBUTES

| | |
|----------------|--|
| B | The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample. |
| C | Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter. |
| E | The reported concentration exceeds the calibration range (upper point of the calibration curve) and is an estimated value. |
| EMPC | Represents an Estimated Maximum Possible Concentration. EMPCs arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference. |
| H/h | If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned. |
| J | Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve) and is an estimated value. |
| ND | Indicates a non-detect. |
| NR or R | Indicates a value that is not reportable. |
| PR | Due to interference, the associated congener is poorly resolved. |
| QI | Indicates the presence of a quantitative interference. |
| SI | Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates. |
| U | The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte. |
| V | The labeled standard recovery was found to be outside of the method control limits. |

APPENDIX B: DRBC/TMDL SPECIFIC DATA QUALIFIERS / DATA ATTRIBUTES

| | |
|-------------|---|
| J | The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL). |
| U | The analyte was not detected in the sample at the estimated detection limit (EDL). |
| E | The reported concentration is an estimate. The value exceeds the upper calibration range (upper point of the calibration curve). |
| D | Dilution Data. Result was obtained from the analysis of a dilution. |
| B | Analyte found in the sample and associated method blank. |
| C | Co-eluting congener |
| Cxx | Co-elutes with the indicated congener, data is reported under the lowest IUPAC congener. 'Xx' denotes the IUPAC number with the lowest numerical designated congener. |
| NR | Analyte is not reportable because of problems in sample preparation or analysis. |
| V | Labeled standard recovery is not within method control limits. |
| X | Results from re-injection/repeat/second-column analysis. |
| EMPC | Estimated maximum possible concentration. Indicates that a peak is identified but did not meet the method specified ion-abundance ratio. |

APPENDIX C: LAB IDENTIFIERS

| | |
|------------|--|
| AR | Indicates use of the archived portion of the sample extract. |
| CU | Indicates a sample that required additional clean-up prior to MS injection/processing. |
| D | Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor. |
| DE | Indicates a dilution performed with the addition of ES (extraction standard) solution. |
| DUP | Designation for a duplicate sample. |
| MS | Designation for a matrix spike. |
| MSD | Designation for a matrix spike duplicate. |
| RJ | Indicates a reinjection of the sample extract. |
| S | Indicates a sample split. The number that follows the "S" indicates the split factor. |



SGS CERTIFICATIONS / APPROVALS / PERMITS

| | |
|--|--|
| Alaska DEC LAP | 17-012 |
| Alaska DEC LCP | NC00919 |
| Arkansas | 88-0682 |
| California (ELAP) | ELAP Cert #2914 |
| CLIA | 34D1013708 |
| Colorado | NC00919 |
| Connecticut | PH-0258 |
| USDA Soil Permit | P330-20-00103 |
| American Association for Laboratory Accreditation (A2LA) | 2726.01 (ISO 17025:2017, 2009 TNI, DoD ELAP QSM 5.4) |
| Florida DOH | E87634 |
| Hawaii DOH | Approval |
| Louisiana DEQ | 4115 |
| Louisiana DOH | LA031 |
| Maine | 2020020 |
| Massachusetts | M-NC919 |
| Michigan | 9950 |
| Minnesota (Primary NELAP For Method 23) | 037-999-459 |
| Montana | 0106 |
| New Hampshire (Secondary NELAP) | 2083 |
| New Jersey | NC100 |
| New York | 11685 |
| North Carolina DEQ | 481 |
| Ohio | 87785 |
| Oklahoma | 2205 |
| Oregon | NC200002 |
| Pennsylvania | 68-03675 |
| South Carolina | 99029002 |
| Texas | T104704260 |
| UCMR 5 | NC00919 |
| US Coast Guard | 16714/159.317/SGS |
| U.S. Fish and Wildlife Service | A22801 |
| Vermont | VT-87634 |
| Virginia | 460214 |
| Washington | C913 |



| PCB Report | | | | | | | Method 1668C | | |
|------------------------|-----------------------------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|-------------|
| Analyte | Method Blank B9770_21382 | Test#1 Mill Off | Test#1 Mill On | Test#2 Mill On | Test#3 Mill On | Test#2 Mill Off | Test#4 Mill On | Test#5 Mill On | Field Blank |
| | pg | pg | pg | pg | pg | pg | pg | pg | pg |
| PCB-77 | (15.7) | 65.2 | [53.4] | (12.9) | [87.4] | 220 | 87.6 | [13.3] | (12.7) |
| PCB-81 | (15.1) | (18.9) | (11) | (14.2) | (17.5) | 69 | (14.9) | (10.8) | (12.4) |
| PCB-105 | 19 | [100] | [92.9] | 34.6 | [139] | [136] | 64.3 | 30.7 | 19.7 |
| PCB-114 | (7.45) | (16.6) | (9.35) | (9.43) | 13.8 | (34.1) | (9.27) | (7.37) | (6.61) |
| PCB-118 | 35.9 | 297 | 246 | 105 | 361 | 458 | 152 | 76.1 | 61.8 |
| PCB-123 | [6.3] | (17.2) | (8.3) | (8.32) | (7.48) | (35.1) | (9.3) | (6.59) | (7) |
| PCB-126 | 13.2 | (12.1) | (8.29) | (7.95) | (8.21) | 33.8 | [11.7] | (5.64) | (6.92) |
| PCB-156/157 | [11.1] | 56.6 | 51.3 | (10.9) | [42.2] | [42.2] | 27.6 | (7.69) | (8.56) |
| PCB-167 | 6.91 | [22.8] | 21.7 | (6.47) | [14.3] | 28.1 | [11.7] | (4.48) | (5.46) |
| PCB-169 | (5.61) | (9.57) | (6.95) | (6.99) | (7.68) | (14.8) | (12.8) | (5.09) | (5.83) |
| PCB-189 | (6.39) | [14.9] | (6.15) | (6.49) | (5.6) | (5.57) | [5.98] | (4.21) | (3.84) |
| Total Mono-CB | 55.7 | 2,350,000 | 8,120 | 8,240 | 6,630 | 7,550,000 | 32,100 | 18,700 | 157 |
| Total Di-CB | 889 | 146,000 | 3,260 | 4,410 | 4,010 | 896,000 | 5,800 | 3,360 | 1,310 |
| Total Tri-CB | 262 | 23,100 | 2,070 | 1,100 | 9,320 | 128,000 | 2,410 | 728 | 407 |
| Total Tetra-CB | 340 | 11,900 | 1,920 | 908 | 9,960 | 49,400 | 1,630 | 804 | 501 |
| Total Penta-CB | 219 | 3,550 | 2,660 | 1,030 | 3,990 | 13,600 | 1,930 | 942 | 737 |
| Total Hexa-CB | 186 | 8,470 | 6,560 | 1,540 | 2,850 | 20,800 | 3,030 | 1,360 | 571 |
| Total Hepta-CB | 48.1 | 4,450 | 3,760 | 795 | 1,110 | 6,290 | 1,020 | 371 | 31.6 |
| Total Octa-CB | (4.75) | 542 | 344 | 61 | 91.9 | 313 | 21.2 | 9.61 | (5.79) |
| Total Nona-CB | (27.2) | 91.6 | (26.7) | (25.6) | [34.8] | (28.7) | 36.9 | (21.7) | (27.4) |
| Total Deca-CB | (7.26) | [66.7] | 65.9 | (7.02) | 35.9 | (6.5) | [26.2] | (6.27) | (8.03) |
| | | | | | | | | | |
| TEQs (WHO 2005 M/H) | | | | | | | | | |
| ND = 0; EMPC = 0 | 1.32 | 0.0171 | 0.00958 | 0.00418 | 0.0113 | 3.44 | 0.0161 | 0.0032 | 0.00244 |
| ND = 0; EMPC = EMPC | 1.32 | 0.0213 | 0.0177 | 0.00418 | 0.0259 | 3.44 | 1.18 | 0.00453 | 0.00244 |
| ND = DL/2; EMPC = 0 | 1.41 | 0.77 | 0.531 | 0.51 | 0.541 | 3.66 | 0.579 | 0.364 | 0.439 |
| ND = DL/2; EMPC = EMPC | 1.41 | 0.774 | 0.539 | 0.51 | 0.554 | 3.67 | 1.38 | 0.365 | 0.439 |
| ND = DL; EMPC = 0 | 1.5 | 1.52 | 1.05 | 1.02 | 1.07 | 3.88 | 1.14 | 0.726 | 0.875 |
| ND = DL; EMPC = EMPC | 1.5 | 1.53 | 1.06 | 1.02 | 1.08 | 3.89 | 1.57 | 0.726 | 0.875 |

| | | | | | | | | | |
|---------------|-------------------|---------------------|---------------------|---------------------|---------------------|------------------------|------------------------|------------------------|------------------------|
| Checkcode | 634-357-DMX/C | 125-978-HKP/C | 519-728-HRG/C | 188-654-MXT/C | 448-058-PRH/C | 664-149-HVC/C | 130-858-FZM/C | 934-187-CNX/C | 861-232-VYZ/C |
| Lab ID | MB1_21382_PCB_SDS | B9770_21382_PCB_001 | B9770_21382_PCB_002 | B9770_21382_PCB_003 | B9770_21382_PCB_004 | B9770_21382_PCB_005-RJ | B9770_21382_PCB_006-RJ | B9770_21382_PCB_007-RJ | B9770_21382_PCB_008-RJ |
| Weight/Volume | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

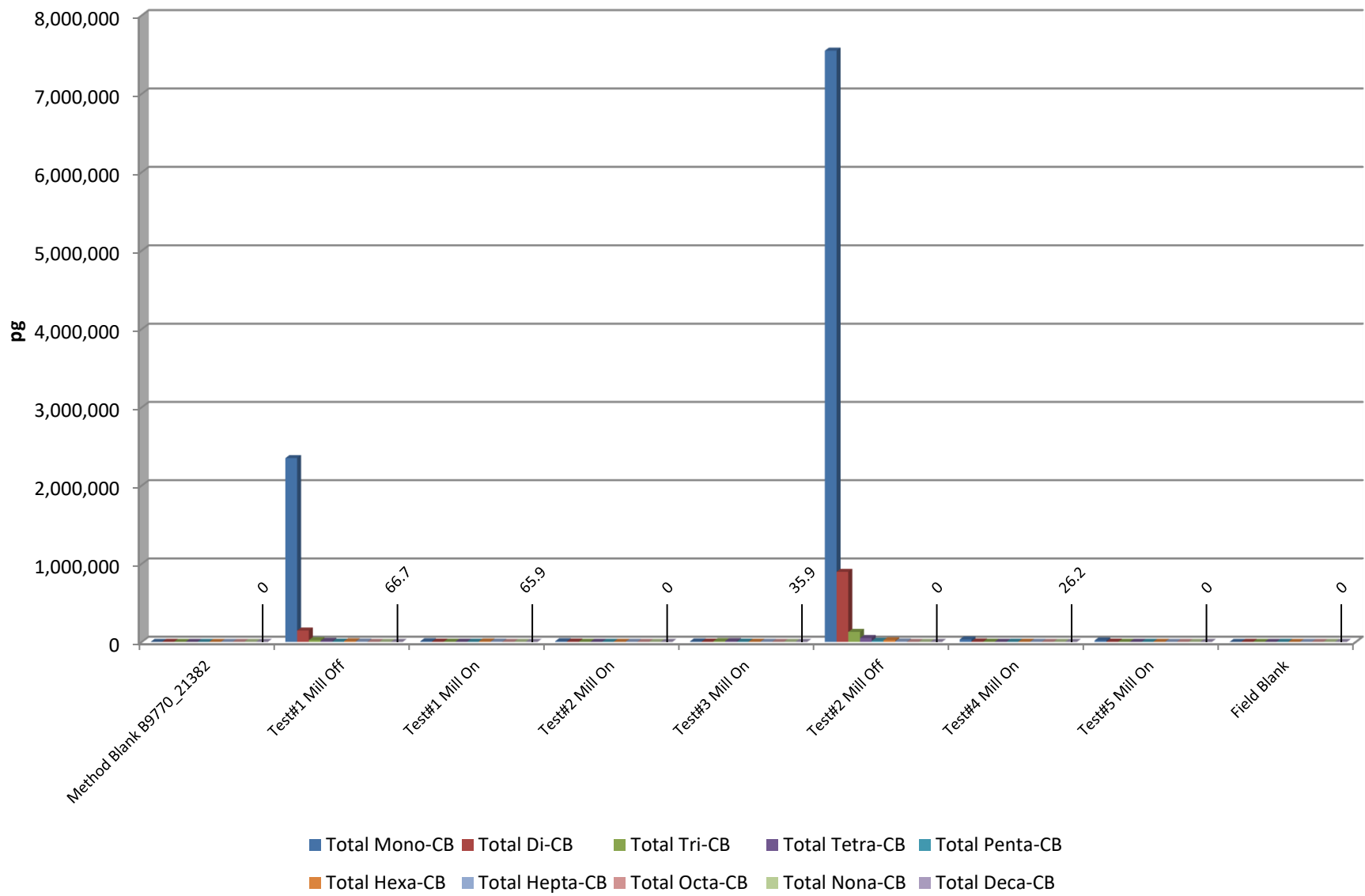
() = DL
[] = EMPC



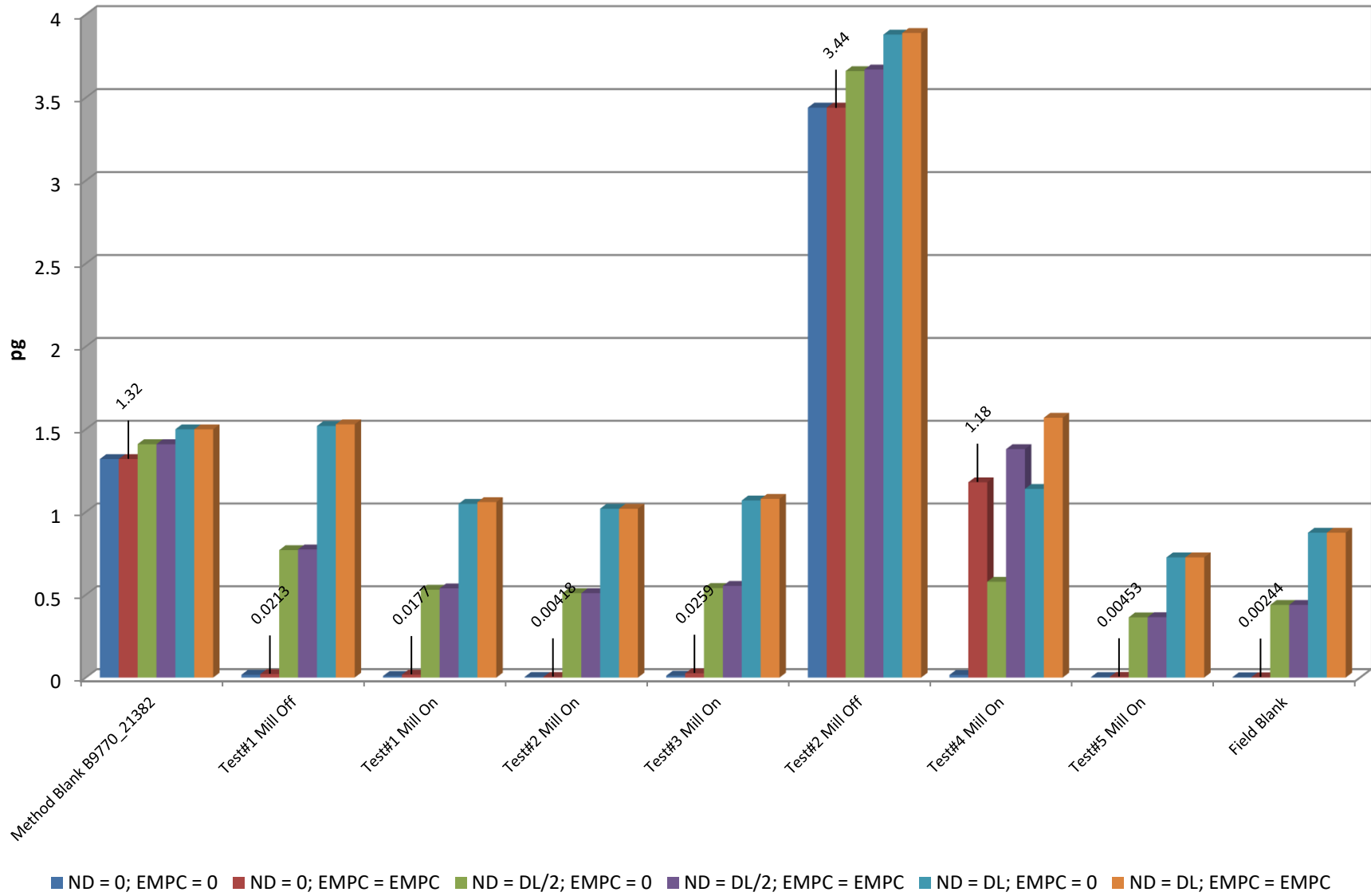
| PCB Recoveries | | | | | | | | | Method 1668C |
|----------------|-----------------------------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|--------------|
| Standard | Method Blank B9770_21382 | Test#1 Mill Off | Test#1 Mill On | Test#2 Mill On | Test#3 Mill On | Test#2 Mill Off | Test#4 Mill On | Test#5 Mill On | Field Blank |
| ES PCB-1 | 48.8 | 27 | 30 | 36.8 | 43.1 | 31 | 15.4 | 32.5 | 35.4 |
| ES PCB-3 | 48.6 | 41.5 | 40.6 | 45.5 | 48.3 | 63.4 | 44.3 | 48 | 44.9 |
| ES PCB-4 | 81 | 28.9 | 51.7 | 57.8 | 63 | 44.6 | 27.1 | 36 | 61.5 |
| ES PCB-15 | 60.7 | 62.7 | 53.1 | 57.1 | 59.3 | 69.3 | 67.9 | 65.5 | 60.2 |
| ES PCB-19 | 82.3 | 79.9 | 65.3 | 71.3 | 74.2 | 92.2 | 68.4 | 68.6 | 68 |
| ES PCB-37 | 40.9 | 48.6 | 41.2 | 42.8 | 47.2 | 54.7 | 48.8 | 55.5 | 54.5 |
| ES PCB-54 | 66.8 | 55.2 | 57.5 | 58.1 | 63.6 | 62.7 | 55.7 | 64.2 | 63.5 |
| ES PCB-77 | 45.3 | 54.1 | 40.8 | 46.3 | 48.1 | 64.6 | 54.2 | 61.3 | 58 |
| ES PCB-81 | 47.8 | 55.8 | 44.7 | 47.6 | 45.9 | 69 | 57.6 | 63 | 58.8 |
| ES PCB-104 | 84.5 | 76.3 | 75.9 | 87.9 | 83 | 82.5 | 77.8 | 77.7 | 80.1 |
| ES PCB-105 | 71.1 | 75 | 59.8 | 71.4 | 68.7 | 82.4 | 67.6 | 77.5 | 70.9 |
| ES PCB-114 | 70 | 72.5 | 61.3 | 70.5 | 68.7 | 82.4 | 67.5 | 80.2 | 67.9 |
| ES PCB-118 | 71.2 | 72 | 64 | 68.5 | 73.1 | 79.4 | 69.3 | 79.6 | 68.8 |
| ES PCB-123 | 72.4 | 73.6 | 65 | 97.3 | 71.3 | 82.4 | 64.7 | 87.7 | 67.6 |
| ES PCB-126 | 49.3 | 51.3 | 51.2 | 51.9 | 44.6 | 77.2 | 59.2 | 69.1 | 60.7 |
| ES PCB-153 | 75.3 | 77.5 | 64 | 76.4 | 78 | 79.4 | 67.9 | 68.3 | 76.3 |
| ES PCB-155 | 64.6 | 66.9 | 59.4 | 66.9 | 72.6 | 66.5 | 62.4 | 61.6 | 64.2 |
| ES PCB-156/157 | 55.8 | 47.9 | 49.9 | 52.9 | 50.7 | 61.9 | 52.9 | 61.4 | 64.3 |
| ES PCB-167 | 53.6 | 54.7 | 56 | 57.2 | 60.1 | 66.3 | 62.3 | 66.9 | 65.9 |
| ES PCB-169 | 56.5 | 53.3 | 55.5 | 57.9 | 52.6 | 65.3 | 36.9 | 67.5 | 67.2 |
| ES PCB-170 | 85.3 | 88.7 | 79.9 | 87.1 | 77.1 | 80.9 | 76.5 | 78.6 | 82.3 |
| ES PCB-180 | 83.1 | 79.3 | 73.3 | 77.1 | 81.3 | 76.8 | 72 | 77 | 75.9 |
| ES PCB-188 | 94.3 | 100 | 96.2 | 103 | 100 | 100 | 94.6 | 93.1 | 90.3 |
| ES PCB-189 | 56.1 | 67.2 | 63.5 | 68.4 | 65.1 | 69.8 | 68.6 | 72 | 71.9 |
| ES PCB-202 | 83.6 | 81 | 85.2 | 79.7 | 86 | 89.8 | 82.7 | 92 | 81.1 |
| ES PCB-205 | 82.4 | 83.1 | 78.5 | 88.9 | 81 | 86.2 | 79.5 | 88.7 | 85.1 |
| ES PCB-206 | 95.4 | 94.2 | 91.7 | 101 | 94 | 95.1 | 89.4 | 94.6 | 94 |
| ES PCB-208 | 89.4 | 89.5 | 81.7 | 87.7 | 83.5 | 85.4 | 77.7 | 85.3 | 83.6 |
| ES PCB-209 | 90 | 95.4 | 92.2 | 99.5 | 93.4 | 98.1 | 95.6 | 101 | 98.2 |

| | | | | | | | | | |
|---------------|-------------------|---------------------|---------------------|---------------------|---------------------|------------------------|------------------------|------------------------|------------------------|
| Checkcode | 634-357-DMX/C | 125-978-HKP/C | 519-728-HRG/C | 188-654-MXT/C | 448-058-PRH/C | 664-149-HVC/C | 130-858-FZM/C | 934-187-CNX/C | 861-232-VYZ/C |
| Lab ID | MB1_21382_PCB_SDS | B9770_21382_PCB_001 | B9770_21382_PCB_002 | B9770_21382_PCB_003 | B9770_21382_PCB_004 | B9770_21382_PCB_005-RJ | B9770_21382_PCB_006-RJ | B9770_21382_PCB_007-RJ | B9770_21382_PCB_008-RJ |
| Weight/Volume | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

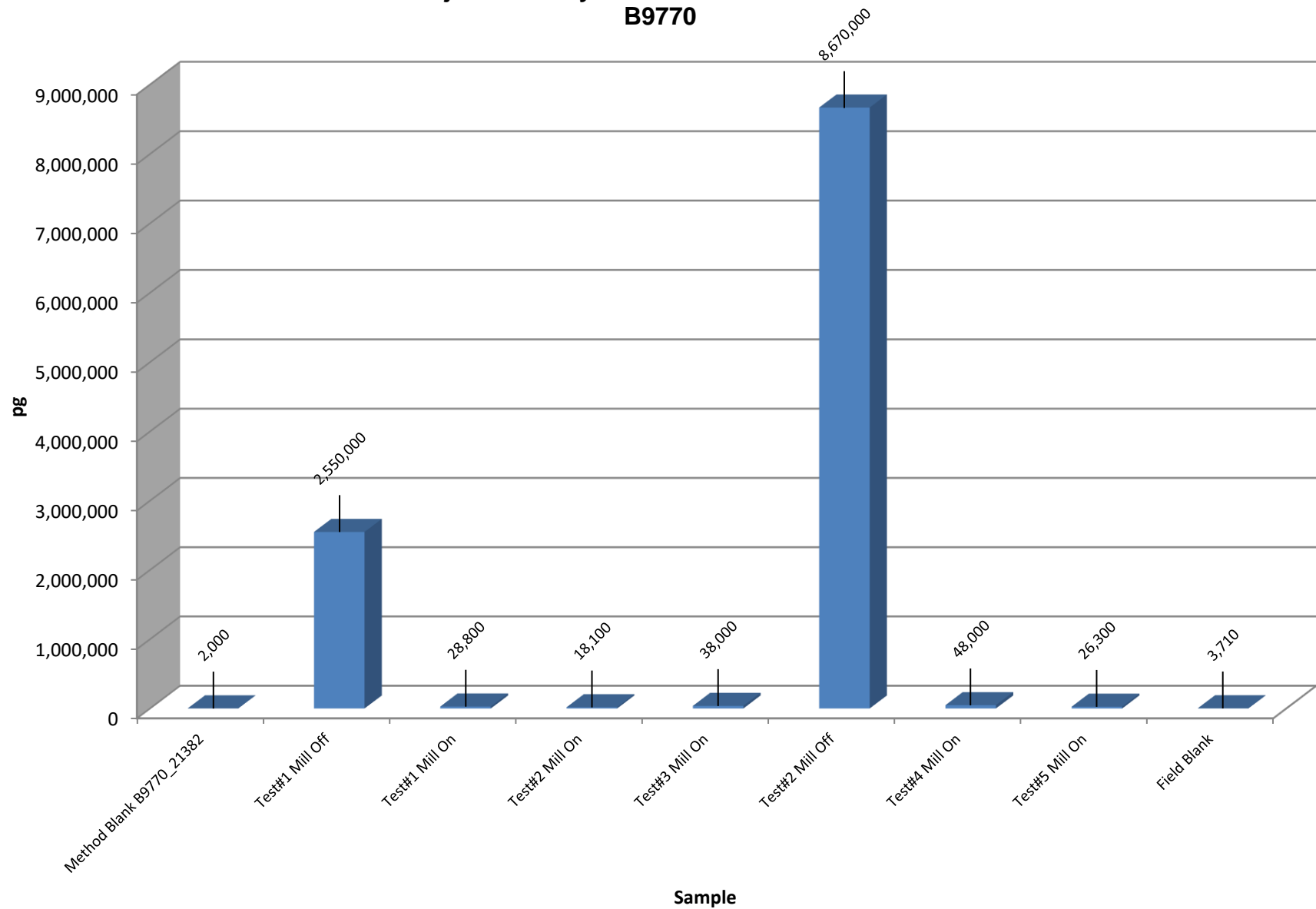
PCB Homologues
Project ID: Holly Hill Cement Plant/Main Kiln
B9770



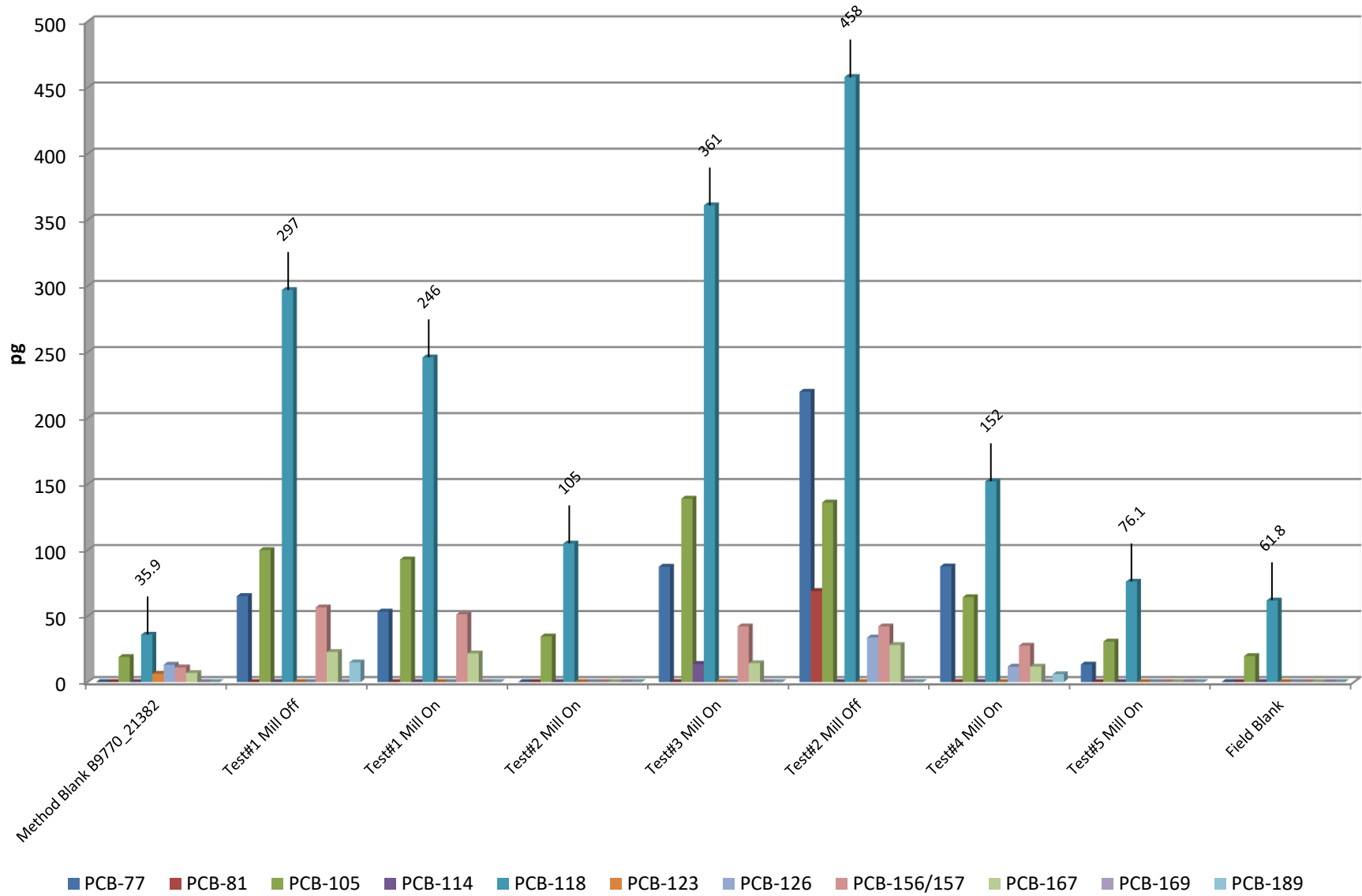
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Project ID: Holly Hill Cement Plant/Main Kiln
B9770



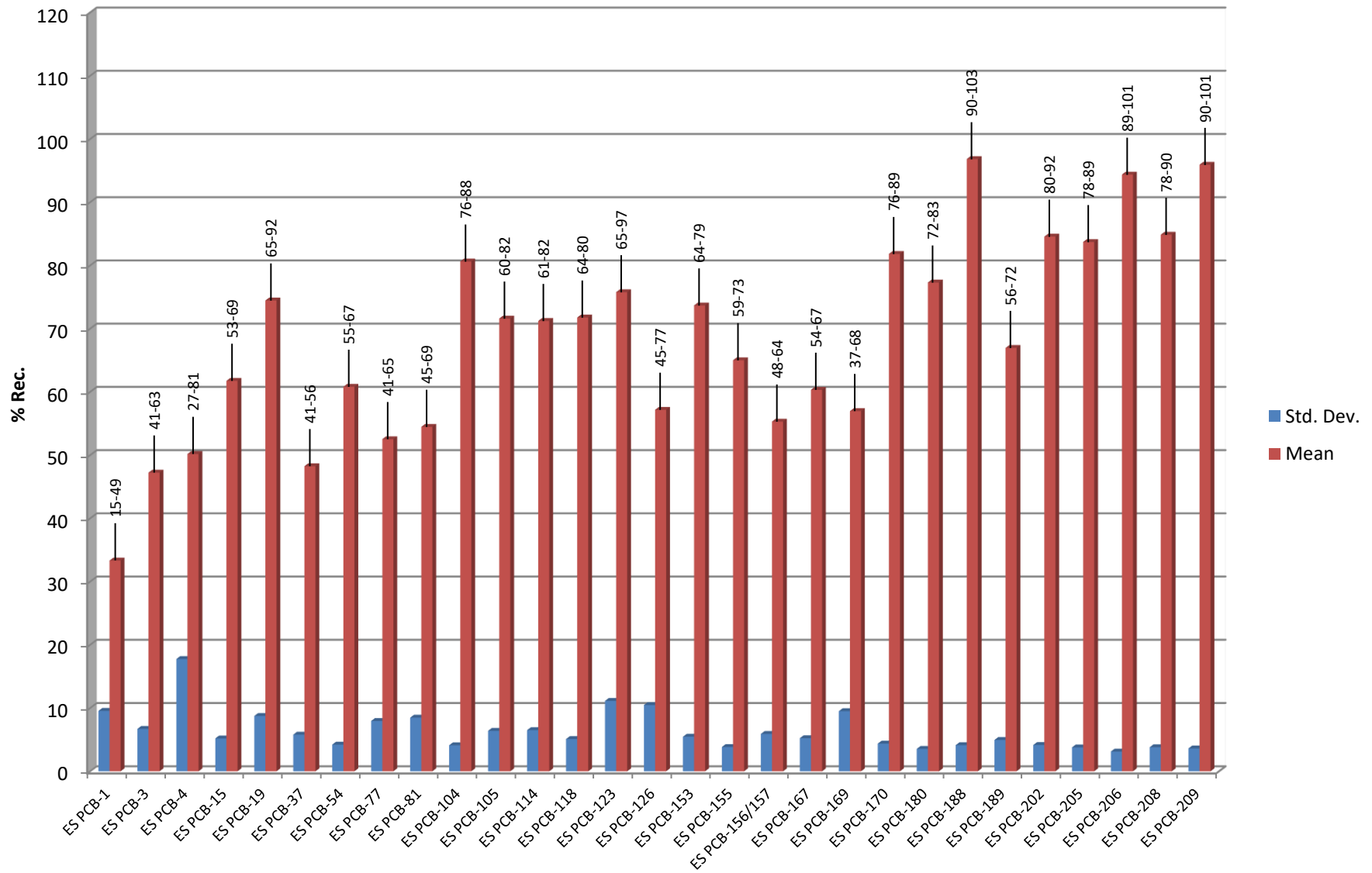
Total PCBs
Project ID: Holly Hill Cement Plant/Main Kiln
B9770



PCB WHO
Project ID: Holly Hill Cement Plant/Main Kiln
B9770



Mean Recoveries of Extraction Standards (N=9)
Project ID: Holly Hill Cement Plant/Main Kiln
B9770





Sample ID: Test#1 Mill Off

| Client Data | | Sample Data | | Laboratory Data | | | | | |
|--------------------------------------|-----------------------------------|----------------|-----------|-----------------|---------------------|-----------------|-------------|----------|--|
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | 02-Aug-2024 | | |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1 | Sample ID: | B9770_21382_PCB_001 | Date Extracted: | 15-Aug-2024 | | |
| Date Collected: | 30-Jul-2024 | | | QC Batch No.: | 21382 | Date Analyzed: | 17-Sep-2024 | | |
| Analyte | Conc. | DL | EMPC | Qualifier | Standard | Recovery | Standard | Recovery | |
| | pg | pg | pg | | | % | | % | |
| PCB-77 33'44'-TeCB | 65.2 | | | | ES PCB-1 | 27 | | | |
| PCB-81 344'5'-TeCB | ND | 18.9 | | | ES PCB-3 | 41.5 | | | |
| PCB-105 233'44'-PeCB | EMPC | | 100 | B | ES PCB-4 | 28.9 | | | |
| PCB-114 2344'5'-PeCB | ND | 16.6 | | | ES PCB-15 | 62.7 | | | |
| PCB-118 23'44'5'-PeCB | 297 | | | B | ES PCB-19 | 79.9 | | | |
| PCB-123 23'44'5'-PeCB | ND | 17.2 | | | ES PCB-37 | 48.6 | | | |
| PCB-126 33'44'5'-PeCB | ND | 12.1 | | | ES PCB-54 | 55.2 | FS PCB-32 | 78.7 | |
| PCB-156/157 233'44'5'/233'44'5'-HxCB | 56.6 | | | B C | ES PCB-77 | 54.1 | FS PCB-97 | 72.9 | |
| PCB-167 23'44'55'-HxCB | EMPC | | 22.8 | B | ES PCB-81 | 55.8 | | | |
| PCB-169 33'44'55'-HxCB | ND | 9.57 | | | ES PCB-104 | 76.3 | | | |
| PCB-189 233'44'55'-HpCB | EMPC | | 14.9 | J | ES PCB-105 | 75 | | | |
| | | | | | ES PCB-114 | 72.5 | | | |
| TEQs (WHO 2005 M/H) | | | | | ES PCB-118 | 72 | | | |
| | | | | | ES PCB-123 | 73.6 | | | |
| ND = 0 | 0.0171 | | 0.0213 | | ES PCB-126 | 51.3 | | | |
| ND = 0.5 x DL | 0.77 | | 0.774 | | ES PCB-153 | 77.5 | | | |
| ND = DL | 1.52 | | 1.53 | | ES PCB-155 | 66.9 | | | |
| | | | | | ES PCB-156/157 | 47.9 | | | |
| Totals | | | | | ES PCB-167 | 54.7 | | | |
| Mono-CB | 2,350,000 | | | E | ES PCB-169 | 53.3 | | | |
| Di-CB | 146,000 | | | | ES PCB-170 | 88.7 | | | |
| Tri-CB | 23,100 | | | | ES PCB-180 | 79.3 | | | |
| Tetra-CB | 11,900 | | 12,100 | | ES PCB-188 | 100 | | | |
| Penta-CB | 3,550 | | 10,600 | | ES PCB-189 | 67.2 | | | |
| Hexa-CB | 8,470 | | 8,840 | | ES PCB-202 | 81 | | | |
| Hepta-CB | 4,450 | | 4,630 | | ES PCB-205 | 83.1 | | | |
| Octa-CB | 542 | | 795 | | ES PCB-206 | 94.2 | | | |
| Nona-CB | 91.6 | | | | ES PCB-208 | 89.5 | | | |
| Deca-CB | | | 66.7 | | ES PCB-209 | 95.4 | | | |
| | | | | | SS PCB-28 | 81 | | | |
| Total PCB (Mono-Deca) | 2,550,000 | | 2,560,000 | E | SS PCB-111 | 93.8 | | | |
| | | | | | SS PCB-178 | 104 | | | |


Checkcode: 125-978-HKP/C

SGS North America - PCB v0.99

Report Created: 23-Sep-2024 11:06 Analyst: pw

Sample ID: Test#1 Mill Off

Method 1668C

| Client Data | | | Sample Data | | | Laboratory Data | | | | | |
|---|-----------|------------|------------------|--------|------------|--------------------------------|--------|------------|-----------------------------|-----------|------------|
| Name: Mostardi-Platt | | | Matrix: Air | | | Project No.: B9770 | | | Date Received: 02-Aug-2024 | | |
| Project ID: Holly Hill Cement Plant/Main Kiln | | | Weight/Volume: 1 | | | Sample ID: B9770_21382_PCB_001 | | | Date Extracted: 15-Aug-2024 | | |
| Date Collected: 30-Jul-2024 | | | Units: pg | | | QC Batch No.: 21382 | | | Date Analyzed: 17-Sep-2024 | | |
| | | | | | | Checkcode: 125-978-HKP/C | | | Time Analyzed: 21:03:27 | | |
| Mono | Conc. | Qualifiers | Tri | Conc. | Qualifiers | Tetra | Conc. | Qualifiers | Tetra | Conc. | Qualifiers |
| PCB-1 | 1,200,000 | E | PCB-19 | 1,280 | | PCB-54 | [77] | EMPC | PCB-72 | [29.7] | EMPC |
| PCB-2 | 819,000 | E | PCB-30/18 | 4,290 | C | PCB-50/53 | 648 | C | PCB-68 | 189 | |
| PCB-3 | 331,000 | E | PCB-17 | 2,560 | | PCB-45 | 318 | | PCB-57 | [32.8] | EMPC |
| | | | PCB-27 | 938 | | PCB-51 | 413 | | PCB-58 | [19.9] | J EMPC |
| Conc. | 2,350,000 | | PCB-24 | 657 | | PCB-46 | 227 | | PCB-67 | 59.7 | B |
| EMPC | 2,350,000 | | PCB-16 | 1,790 | | PCB-52 | 4,910 | | PCB-63 | [24.6] | EMPC |
| | | | PCB-32 | 886 | | PCB-73 | [69.9] | EMPC | PCB-61/70/74/76 | 708 | B C |
| Di | Conc. | Qualifiers | PCB-34 | 660 | | PCB-43 | 94.6 | | PCB-66 | 247 | B |
| PCB-4 | 11,800 | | PCB-23 | 712 | | PCB-69/49 | 834 | C | PCB-55 | 20.5 | |
| PCB-10 | 13,100 | | PCB-26/29 | 1,540 | C | PCB-48 | 359 | | PCB-56 | 156 | |
| PCB-9 | 10,100 | | PCB-25 | 586 | | PCB-44/47/65 | 1,170 | C | PCB-60 | 82.1 | |
| PCB-7 | 12,400 | | PCB-31 | 897 | | PCB-59/62/75 | 206 | C | PCB-80 | (20.8) | |
| PCB-6 | 17,700 | | PCB-28/20 | 1,340 | C | PCB-42 | 294 | | PCB-79 | 37 | |
| PCB-5 | 13,400 | | PCB-21/33 | 1,650 | C | PCB-41 | 128 | | PCB-78 | [18.3] | J EMPC |
| PCB-8 | 9,450 | | PCB-22 | 497 | | PCB-71/40 | 421 | C | PCB-81 | (18.9) | |
| PCB-14 | 15,900 | | PCB-36 | 531 | | PCB-64 | 266 | | PCB-77 | 65.2 | |
| PCB-11 | 14,300 | | PCB-39 | 307 | | | | | | | |
| PCB-13/12 | 26,900 | C | PCB-38 | 867 | | | | | | | |
| PCB-15 | 1,380 | | PCB-35 | 760 | | | | | | | |
| | | | PCB-37 | 384 | | | | | | | |
| Conc. | 146,000 | | Conc. | 23,100 | | | | | Conc. | 11,900 | |
| EMPC | 146,000 | | EMPC | 23,100 | | | | | EMPC | 12,100 | |
|  <div> 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com </div> | | | | | | Totals | | | | | |
| | | | | | | Mono-Tri | | Conc. | | EMPC | |
| | | | | | | Tetra-Hexa | | 2,520,000 | | 2,520,000 | |
| | | | | | | Hepta-Deca | | 23,900 | | 31,600 | |
| | | | | | | Mono-Deca | | 5,080 | | 5,590 | |
| | | | | | | | | 2,550,000 | | 2,560,000 | |

Sample ID: Test#1 Mill Off Method 1668C

| Penta | Conc. | Qualifiers | Penta | Conc. | Qualifiers | Hexa | Conc. | Qualifiers | Hexa | Conc. | Qualifiers |
|----------------|---------|------------|--------------------------|---------|------------|-------------|--------|------------|-----------------|--------|------------|
| PCB-104 | 49.5 | | PCB-109/119/86/97/125/87 | [1,130] | EMPC C | PCB-155 | 116 | | PCB-165 | (5.55) | |
| PCB-96 | [131] | EMPC | PCB-117 | 22.2 | | PCB-152 | [6.55] | J EMPC | PCB-146 | 212 | |
| PCB-103 | [59.4] | EMPC | PCB-116/85 | 74.7 | C | PCB-150 | [28.6] | EMPC | PCB-161 | (4.8) | |
| PCB-94 | (34.5) | | PCB-110 | 657 | | PCB-136 | 608 | | PCB-153/168 | 1,630 | C |
| PCB-95 | [2,120] | EMPC | PCB-115 | (18.4) | | PCB-145 | (5.35) | | PCB-141 | 534 | |
| PCB-100/93 | [88.4] | EMPC C | PCB-82 | [55.5] | EMPC | PCB-148 | (6.85) | | PCB-130 | [146] | EMPC |
| PCB-102 | [140] | EMPC | PCB-111 | (20.3) | | PCB-151/135 | 1,060 | C | PCB-137 | 58 | |
| PCB-98 | (28.4) | | PCB-120 | (16.8) | | PCB-154 | [31.3] | EMPC | PCB-164 | 111 | |
| PCB-88 | (33.5) | | PCB-108/124 | (19.9) | C | PCB-144 | 158 | | PCB-163/138/129 | 1,290 | C |
| PCB-91 | 268 | | PCB-107 | 33.7 | B | PCB-147/149 | 1,890 | C | PCB-160 | (5.69) | |
| PCB-84 | [488] | EMPC | PCB-123 | (17.2) | | PCB-134 | 123 | | PCB-158 | 133 | B |
| PCB-89 | 24.8 | | PCB-106 | (19.1) | | PCB-143 | (7.04) | | PCB-128/166 | [106] | EMPC C |
| PCB-121 | 20.4 | | PCB-118 | 297 | B | PCB-139/140 | (6.62) | C | PCB-159 | 28.1 | |
| PCB-92 | 286 | | PCB-122 | (23.3) | | PCB-131 | (7.52) | | PCB-162 | (10.1) | |
| PCB-113/90/101 | 1,820 | C | PCB-114 | (16.6) | | PCB-142 | (7.69) | | PCB-167 | [22.8] | B EMPC |
| PCB-83 | [2,750] | EMPC | PCB-105 | [100] | B EMPC | PCB-132 | 458 | | PCB-156/157 | 56.6 | B C |
| PCB-99 | (21.6) | | PCB-127 | (21.1) | | PCB-133 | [28.3] | EMPC | PCB-169 | (9.57) | |
| PCB-112 | (18.1) | | PCB-126 | (12.1) | | | | | | | |
| | | | Conc. | 3,550 | | | | | Conc. | 8,470 | |
| | | | EMPC | 10,600 | | | | | EMPC | 8,840 | |
| Hepta | Conc. | Qualifiers | Hepta | Conc. | Qualifiers | Octa | Conc. | Qualifiers | Nona | Conc. | Qualifiers |
| PCB-188 | (5.81) | | PCB-174 | 682 | | PCB-202 | [73.2] | EMPC | PCB-208 | 28.6 | |
| PCB-179 | 425 | | PCB-177 | 301 | | PCB-201 | [53.4] | EMPC | PCB-207 | (23.8) | |
| PCB-184 | (7.47) | | PCB-181 | (13.2) | | PCB-204 | (5.11) | | PCB-206 | 63 | |
| PCB-176 | 149 | | PCB-171/173 | 169 | C | PCB-197 | 24.5 | | | | |
| PCB-186 | (6.63) | | PCB-172 | 74.2 | | PCB-200 | 57.8 | | Conc. | 91.6 | |
| PCB-178 | [156] | EMPC | PCB-192 | (10.3) | | PCB-198/199 | 225 | C | EMPC | 91.6 | |
| PCB-175 | 30.3 | | PCB-180/193 | 948 | C | PCB-196 | 116 | | | | |
| PCB-187 | 871 | | PCB-191 | [17.3] | J EMPC | PCB-203 | 119 | | Deca | Conc. | Qualifiers |
| PCB-182 | (12.6) | | PCB-170 | 242 | | PCB-195 | [44.4] | EMPC | PCB-209 | [66.7] | EMPC |
| PCB-183 | 418 | | PCB-190 | 40.1 | | PCB-194 | [66.3] | EMPC | | | |
| PCB-185 | 97.1 | | PCB-189 | [14.9] | J EMPC | PCB-205 | [16] | J EMPC | | | |
| | | | Conc. | 4,450 | | Conc. | 542 | | | | |
| | | | EMPC | 4,630 | | EMPC | 795 | | | | |

Sample ID: Test#1 Mill On


| Client Data | | Sample Data | | Laboratory Data | | | | | |
|--------------------------------------|-----------------------------------|----------------|--------|-----------------|---------------------|-----------------|-------------|----------|--|
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | 02-Aug-2024 | | |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1 | Sample ID: | B9770_21382_PCB_002 | Date Extracted: | 15-Aug-2024 | | |
| Date Collected: | 30-Jul-2024 | | | QC Batch No.: | 21382 | Date Analyzed: | 17-Sep-2024 | | |
| Analyte | Conc. | DL | EMPC | Qualifier | Standard | Recovery | Standard | Recovery | |
| | pg | pg | pg | | | % | | % | |
| PCB-77 33'44'-TeCB | EMPC | | 53.4 | | ES PCB-1 | 30 | | | |
| PCB-81 344'5'-TeCB | ND | 11 | | | ES PCB-3 | 40.6 | | | |
| PCB-105 233'44'-PeCB | EMPC | | 92.9 | B | ES PCB-4 | 51.7 | | | |
| PCB-114 2344'5'-PeCB | ND | 9.35 | | | ES PCB-15 | 53.1 | | | |
| PCB-118 23'44'5'-PeCB | 246 | | | B | ES PCB-19 | 65.3 | | | |
| PCB-123 23'44'5'-PeCB | ND | 8.3 | | | ES PCB-37 | 41.2 | | | |
| PCB-126 33'44'5'-PeCB | ND | 8.29 | | | ES PCB-54 | 57.5 | FS PCB-32 | 74.7 | |
| PCB-156/157 233'44'5'/233'44'5'-HxCB | 51.3 | | | B C | ES PCB-77 | 40.8 | FS PCB-97 | 62.3 V | |
| PCB-167 23'44'55'-HxCB | 21.7 | | | B | ES PCB-81 | 44.7 | | | |
| PCB-169 33'44'55'-HxCB | ND | 6.95 | | | ES PCB-104 | 75.9 | | | |
| PCB-189 233'44'55'-HpCB | ND | 6.15 | | | ES PCB-105 | 59.8 | | | |
| | | | | | ES PCB-114 | 61.3 | | | |
| TEQs (WHO 2005 M/H) | | | | | ES PCB-118 | 64 | | | |
| | | | | | ES PCB-123 | 65 | | | |
| ND = 0 | 0.00958 | | 0.0177 | | ES PCB-126 | 51.2 | | | |
| ND = 0.5 x DL | 0.531 | | 0.539 | | ES PCB-153 | 64 | | | |
| ND = DL | 1.05 | | 1.06 | | ES PCB-155 | 59.4 | | | |
| | | | | | ES PCB-156/157 | 49.9 | | | |
| Totals | | | | | ES PCB-167 | 56 | | | |
| Mono-CB | 8,120 | | | | ES PCB-169 | 55.5 | | | |
| Di-CB | 3,260 | | | | ES PCB-170 | 79.9 | | | |
| Tri-CB | 2,070 | | 2,170 | | ES PCB-180 | 73.3 | | | |
| Tetra-CB | 1,920 | | 2,110 | | ES PCB-188 | 96.2 | | | |
| Penta-CB | 2,660 | | 3,250 | | ES PCB-189 | 63.5 | | | |
| Hexa-CB | 6,560 | | | | ES PCB-202 | 85.2 | | | |
| Hepta-CB | 3,760 | | | | ES PCB-205 | 78.5 | | | |
| Octa-CB | 344 | | 692 | | ES PCB-206 | 91.7 | | | |
| Nona-CB | ND | 26.7 | | | ES PCB-208 | 81.7 | | | |
| Deca-CB | 65.9 | | | | ES PCB-209 | 92.2 | | | |
| | | | | | SS PCB-28 | 90.5 | | | |
| Total PCB (Mono-Deca) | 28,800 | | 30,000 | | SS PCB-111 | 86.3 | | | |
| | | | | | SS PCB-178 | 94.8 | | | |

Checkcode: 519-728-HRG/C

SGS North America - PCB v0.99

Report Created: 23-Sep-2024 11:06 Analyst: pw

Sample ID: Test#1 Mill On Method 1668C

| Client Data | | | Sample Data | | | Laboratory Data | | | | | |
|---|-----------------------------------|------------|--------------------|--------|------------|------------------------|---------------------|------------|-----------------|-------------|------------|
| Name: | Mostardi-Platt | | Matrix: | Air | | Project No.: | B9770 | | Date Received: | 02-Aug-2024 | |
| Project ID: | Holly Hill Cement Plant/Main Kiln | | Weight/Volume: | 1 | | Sample ID: | B9770_21382_PCB_002 | | Date Extracted: | 15-Aug-2024 | |
| Date Collected: | 30-Jul-2024 | | Units | pg | | QC Batch No.: | 21382 | | Date Analyzed: | 17-Sep-2024 | |
| | | | | | | Checkcode: | 519-728-HRG/C | | Time Analyzed: | 21:59:22 | |
| Mono | Conc. | Qualifiers | Tri | Conc. | Qualifiers | Tetra | Conc. | Qualifiers | Tetra | Conc. | Qualifiers |
| PCB-1 | 2,480 | | PCB-19 | 43.4 | | PCB-54 | (7.36) | | PCB-72 | (13.4) | |
| PCB-2 | 3,510 | | PCB-30/18 | 277 | B C | PCB-50/53 | 35.2 | J C | PCB-68 | (14.2) | |
| PCB-3 | 2,130 | | PCB-17 | 171 | B | PCB-45 | 52.8 | B | PCB-57 | (14) | |
| | | | PCB-27 | [27.3] | EMPC | PCB-51 | [22] | B EMPC | PCB-58 | (12.3) | |
| Conc. | 8,120 | | PCB-24 | (16.8) | | PCB-46 | 15.2 | J | PCB-67 | (12.2) | |
| EMPC | 8,120 | | PCB-16 | 164 | | PCB-52 | 383 | B | PCB-63 | (14.8) | |
| | | | PCB-32 | 102 | B | PCB-73 | (8.17) | | PCB-61/70/74/76 | 396 | B C |
| Di | Conc. | Qualifiers | PCB-34 | (14.7) | | PCB-43 | (11.9) | | PCB-66 | 170 | B |
| PCB-4 | 163 | B | PCB-23 | (14.8) | | PCB-69/49 | 138 | B C | PCB-55 | (13.2) | |
| PCB-10 | 29.2 | | PCB-26/29 | 74.7 | B C | PCB-48 | 54.6 | | PCB-56 | [68.3] | EMPC |
| PCB-9 | 55.6 | | PCB-25 | [36] | EMPC | PCB-44/47/65 | 336 | B C | PCB-60 | 62.2 | |
| PCB-7 | 77.7 | B | PCB-31 | 270 | B | PCB-59/62/75 | [21.8] | J EMPC C | PCB-80 | (12.2) | |
| PCB-6 | 119 | B | PCB-28/20 | 365 | B C | PCB-42 | 78.5 | | PCB-79 | (11) | |
| PCB-5 | 82.3 | | PCB-21/33 | 257 | B C | PCB-41 | [26.5] | EMPC | PCB-78 | (13.6) | |
| PCB-8 | 266 | B | PCB-22 | 128 | | PCB-71/40 | 105 | B C | PCB-81 | (11) | |
| PCB-14 | 89.5 | | PCB-36 | [17.5] | J EMPC | PCB-64 | 89.5 | B | PCB-77 | [53.4] | EMPC |
| PCB-11 | 1,830 | B | PCB-39 | (13.6) | | | | | | | |
| PCB-13/12 | 412 | C | PCB-38 | [18.7] | J EMPC | | | | | | |
| PCB-15 | 130 | B | PCB-35 | 88.5 | B | | | | | | |
| | | | PCB-37 | 126 | B | | | | | | |
| Conc. | 3,260 | | Conc. | 2,070 | | | | | Conc. | 1,920 | |
| EMPC | 3,260 | | EMPC | 2,170 | | | | | EMPC | 2,110 | |
|  <div> 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com </div> | | | | | | | | | | | |
| | | | | | | Totals | | Conc. | | EMPC | |
| | | | | | | Mono-Tri | | 13,400 | | 13,500 | |
| | | | | | | Tetra-Hexa | | 11,100 | | 11,900 | |
| | | | | | | Hepta-Deca | | 4,170 | | 4,520 | |
| | | | | | | Mono-Deca | | 28,800 | | 30,000 | |

Sample ID: Test#1 Mill On Method 1668C

| Penta | Conc. | Qualifiers | Penta | Conc. | Qualifiers | Hexa | Conc. | Qualifiers | Hexa | Conc. | Qualifiers |
|----------------|--------|------------|--------------------------|--------|------------|-------------|--------|------------|-----------------|--------|------------|
| PCB-104 | (5.84) | | PCB-109/119/86/97/125/87 | [277] | B EMPC C | PCB-155 | (3.33) | | PCB-165 | (4.8) | |
| PCB-96 | (7.19) | | PCB-117 | (10.4) | | PCB-152 | (3.9) | | PCB-146 | 179 | |
| PCB-103 | (13.8) | | PCB-116/85 | [41] | EMPC C | PCB-150 | (4.51) | | PCB-161 | (4.15) | |
| PCB-94 | (16.7) | | PCB-110 | 433 | B | PCB-136 | 359 | | PCB-153/168 | 1,260 | C |
| PCB-95 | 766 | | PCB-115 | (8.88) | | PCB-145 | (4.13) | | PCB-141 | 390 | |
| PCB-100/93 | (15.2) | C | PCB-82 | [32.3] | EMPC | PCB-148 | (5.93) | | PCB-130 | (7.1) | |
| PCB-102 | 12.1 | J | PCB-111 | (9.84) | | PCB-151/135 | 846 | C | PCB-137 | (5.84) | |
| PCB-98 | (13.7) | | PCB-120 | (8.1) | | PCB-154 | (5.59) | | PCB-164 | 80.2 | |
| PCB-88 | (16.2) | | PCB-108/124 | (9.63) | C | PCB-144 | 116 | | PCB-163/138/129 | 1,160 | C |
| PCB-91 | 58.2 | | PCB-107 | [21.3] | B EMPC | PCB-147/149 | 1,450 | C | PCB-160 | (4.92) | |
| PCB-84 | 127 | B | PCB-123 | (8.3) | | PCB-134 | (7.58) | | PCB-158 | 104 | B |
| PCB-89 | (14.3) | | PCB-106 | (9.22) | | PCB-143 | (6.09) | | PCB-128/166 | 85.3 | C |
| PCB-121 | (9.42) | | PCB-118 | 246 | B | PCB-139/140 | (5.72) | C | PCB-159 | 26.2 | |
| PCB-92 | [94.8] | B EMPC | PCB-122 | (13.1) | | PCB-131 | (6.5) | | PCB-162 | (7.92) | |
| PCB-113/90/101 | 870 | C | PCB-114 | (9.35) | | PCB-142 | (6.65) | | PCB-167 | 21.7 | B |
| PCB-83 | [24.9] | EMPC | PCB-105 | [92.9] | B EMPC | PCB-132 | 426 | | PCB-156/157 | 51.3 | B C |
| PCB-99 | 151 | B | PCB-127 | (10.8) | | PCB-133 | (5.74) | | PCB-169 | (6.95) | |
| PCB-112 | (8.73) | | PCB-126 | (8.29) | | | | | | | |
| | | | Conc. | 2,660 | | | | | Conc. | 6,560 | |
| | | | EMPC | 3,250 | | | | | EMPC | 6,560 | |
| Hepta | Conc. | Qualifiers | Hepta | Conc. | Qualifiers | Octa | Conc. | Qualifiers | Nona | Conc. | Qualifiers |
| PCB-188 | (4.18) | | PCB-174 | 591 | | PCB-202 | 69.9 | | PCB-208 | (20.1) | |
| PCB-179 | 292 | | PCB-177 | 244 | | PCB-201 | [56.1] | EMPC | PCB-207 | (24.8) | |
| PCB-184 | (5.38) | | PCB-181 | (13.8) | | PCB-204 | (5.07) | | PCB-206 | (33.3) | |
| PCB-176 | 105 | | PCB-171/173 | 127 | C | PCB-197 | 17.2 | J | | | |
| PCB-186 | (4.78) | | PCB-172 | 57.6 | | PCB-200 | 62.7 | | Conc. | 0 | |
| PCB-178 | 156 | | PCB-192 | (10.8) | | PCB-198/199 | 194 | C | EMPC | 0 | |
| PCB-175 | (15.5) | | PCB-180/193 | 782 | C | PCB-196 | [78.7] | EMPC | | | |
| PCB-187 | 722 | | PCB-191 | (12.1) | | PCB-203 | [91.3] | EMPC | Deca | Conc. | Qualifiers |
| PCB-182 | (13.2) | | PCB-170 | 225 | | PCB-195 | [46.3] | EMPC | PCB-209 | 65.9 | |
| PCB-183 | 339 | | PCB-190 | 37.8 | | PCB-194 | [70] | EMPC | | | |
| PCB-185 | 86.9 | | PCB-189 | (6.15) | | PCB-205 | [6.36] | J EMPC | | | |
| | | | Conc. | 3,760 | | Conc. | 344 | | | | |
| | | | EMPC | 3,760 | | EMPC | 692 | | | | |



Sample ID: Test#2 Mill On


| Client Data | | Sample Data | | Laboratory Data | | | | | |
|--------------------------------------|-----------------------------------|----------------|---------|-----------------|---------------------|-----------------|-------------|----------|--|
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | 02-Aug-2024 | | |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1 | Sample ID: | B9770_21382_PCB_003 | Date Extracted: | 15-Aug-2024 | | |
| Date Collected: | 31-Jul-2024 | | | QC Batch No.: | 21382 | Date Analyzed: | 17-Sep-2024 | | |
| Analyte | Conc. | DL | EMPC | Qualifier | Standard | Recovery | Standard | Recovery | |
| | pg | pg | pg | | | % | | % | |
| PCB-77 33'44'-TeCB | ND | 12.9 | | | ES PCB-1 | 36.8 | | | |
| PCB-81 344'5'-TeCB | ND | 14.2 | | | ES PCB-3 | 45.5 | | | |
| PCB-105 233'44'-PeCB | 34.6 | | | B | ES PCB-4 | 57.8 | | | |
| PCB-114 2344'5'-PeCB | ND | 9.43 | | | ES PCB-15 | 57.1 | | | |
| PCB-118 23'44'5'-PeCB | 105 | | | B | ES PCB-19 | 71.3 | | | |
| PCB-123 23'44'5'-PeCB | ND | 8.32 | | | ES PCB-37 | 42.8 | | | |
| PCB-126 33'44'5'-PeCB | ND | 7.95 | | | ES PCB-54 | 58.1 | FS PCB-32 | 81.2 | |
| PCB-156/157 233'44'5'/233'44'5'-HxCB | ND | 10.9 | | C | ES PCB-77 | 46.3 | FS PCB-97 | 71.6 | |
| PCB-167 23'44'55'-HxCB | ND | 6.47 | | | ES PCB-81 | 47.6 | | | |
| PCB-169 33'44'55'-HxCB | ND | 6.99 | | | ES PCB-104 | 87.9 | | | |
| PCB-189 233'44'55'-HpCB | ND | 6.49 | | | ES PCB-105 | 71.4 | | | |
| | | | | | ES PCB-114 | 70.5 | | | |
| TEQs (WHO 2005 M/H) | | | | | ES PCB-118 | 68.5 | | | |
| | | | | | ES PCB-123 | 97.3 | | | |
| ND = 0 | 0.00418 | | 0.00418 | | ES PCB-126 | 51.9 | | | |
| ND = 0.5 x DL | 0.51 | | 0.51 | | ES PCB-153 | 76.4 | | | |
| ND = DL | 1.02 | | 1.02 | | ES PCB-155 | 66.9 | | | |
| | | | | | ES PCB-156/157 | 52.9 | | | |
| Totals | | | | | ES PCB-167 | 57.2 | | | |
| Mono-CB | 8,240 | | | | ES PCB-169 | 57.9 | | | |
| Di-CB | 4,410 | | 4,780 | | ES PCB-170 | 87.1 | | | |
| Tri-CB | 1,100 | | 1,140 | | ES PCB-180 | 77.1 | | | |
| Tetra-CB | 908 | | 1,090 | | ES PCB-188 | 103 | | | |
| Penta-CB | 1,030 | | 1,110 | | ES PCB-189 | 68.4 | | | |
| Hexa-CB | 1,540 | | 1,890 | | ES PCB-202 | 79.7 | | | |
| Hepta-CB | 795 | | 991 | | ES PCB-205 | 88.9 | | | |
| Octa-CB | 61 | | 140 | | ES PCB-206 | 101 | | | |
| Nona-CB | ND | 25.6 | | | ES PCB-208 | 87.7 | | | |
| Deca-CB | ND | 7.02 | | | ES PCB-209 | 99.5 | | | |
| | | | | | SS PCB-28 | 90.9 | | | |
| Total PCB (Mono-Deca) | 18,100 | | 19,400 | | SS PCB-111 | 63.7 V | | | |
| | | | | | SS PCB-178 | 94.5 | | | |

Checkcode: 188-654-MXT/C

SGS North America - PCB v0.99

Report Created: 27-Sep-2024 13:16 Analyst: pw

Sample ID: Test#2 Mill On Method 1668C

| Client Data | | | Sample Data | | | Laboratory Data | | | | | |
|---|-----------------------------------|------------|--------------------|--------|------------|------------------------|---------------------|------------|-----------------|-------------|------------|
| Name: | Mostardi-Platt | | Matrix: | Air | | Project No.: | B9770 | | Date Received: | 02-Aug-2024 | |
| Project ID: | Holly Hill Cement Plant/Main Kiln | | Weight/Volume: | 1 | | Sample ID: | B9770_21382_PCB_003 | | Date Extracted: | 15-Aug-2024 | |
| Date Collected: | 31-Jul-2024 | | Units | pg | | QC Batch No.: | 21382 | | Date Analyzed: | 17-Sep-2024 | |
| | | | | | | Checkcode: | 188-654-MXT/C | | Time Analyzed: | 22:56:56 | |
| Mono | Conc. | Qualifiers | Tri | Conc. | Qualifiers | Tetra | Conc. | Qualifiers | Tetra | Conc. | Qualifiers |
| PCB-1 | 2,390 | | PCB-19 | [24.6] | EMPC | PCB-54 | (5.44) | | PCB-72 | (17.3) | |
| PCB-2 | 3,600 | | PCB-30/18 | 128 | B C | PCB-50/53 | [19.4] | J EMPC C | PCB-68 | (18.3) | |
| PCB-3 | 2,250 | | PCB-17 | 103 | B | PCB-45 | [23.4] | B EMPC | PCB-57 | (18.1) | |
| | | | PCB-27 | (16.2) | | PCB-51 | [21.4] | B EMPC | PCB-58 | (15.8) | |
| Conc. | 8,240 | | PCB-24 | (16.1) | | PCB-46 | (19.4) | | PCB-67 | (15.7) | |
| EMPC | 8,240 | | PCB-16 | 79 | | PCB-52 | 235 | B | PCB-63 | (19.1) | |
| | | | PCB-32 | 62.2 | B | PCB-73 | (11.2) | | PCB-61/70/74/76 | 202 | B C |
| Di | Conc. | Qualifiers | PCB-34 | (16.5) | | PCB-43 | (16.4) | | PCB-66 | 82.4 | B |
| PCB-4 | [115] | B EMPC | PCB-23 | (16.6) | | PCB-69/49 | 86.7 | B C | PCB-55 | (17) | |
| PCB-10 | (21) | | PCB-26/29 | 48.3 | B C | PCB-48 | [24.2] | EMPC | PCB-56 | [35] | EMPC |
| PCB-9 | 41.1 | | PCB-25 | [15.2] | J EMPC | PCB-44/47/65 | 204 | B C | PCB-60 | [22.3] | EMPC |
| PCB-7 | 61.1 | B | PCB-31 | 139 | B | PCB-59/62/75 | (12.2) | C | PCB-80 | (15.7) | |
| PCB-6 | [98.5] | B EMPC | PCB-28/20 | 192 | B C | PCB-42 | 39.9 | | PCB-79 | (14.2) | |
| PCB-5 | 85.8 | | PCB-21/33 | 125 | B C | PCB-41 | (21.1) | | PCB-78 | (17.5) | |
| PCB-8 | [161] | B EMPC | PCB-22 | 66 | | PCB-71/40 | 58.7 | B C | PCB-81 | (14.2) | |
| PCB-14 | 70.7 | | PCB-36 | (13.9) | | PCB-64 | [37.2] | B EMPC | PCB-77 | (12.9) | |
| PCB-11 | 3,650 | B | PCB-39 | (15.2) | | | | | | | |
| PCB-13/12 | 412 | C | PCB-38 | (15.1) | | | | | | | |
| PCB-15 | 86.8 | B | PCB-35 | 94.7 | B | | | | | | |
| | | | PCB-37 | 61.2 | B | | | | | | |
| Conc. | 4,410 | | Conc. | 1,100 | | | | | Conc. | 908 | |
| EMPC | 4,780 | | EMPC | 1,140 | | | | | EMPC | 1,090 | |
|  <div> 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com </div> | | | | | | | | | | | |
| | | | | | | Totals | | Conc. | | EMPC | |
| | | | | | | Mono-Tri | | 13,700 | | 14,200 | |
| | | | | | | Tetra-Hexa | | 3,480 | | 4,090 | |
| | | | | | | Hepta-Deca | | 856 | | 1,130 | |
| | | | | | | Mono-Deca | | 18,100 | | 19,400 | |

Sample ID: Test#2 Mill On Method 1668C

| Penta | Conc. | Qualifiers | Penta | Conc. | Qualifiers | Hexa | Conc. | Qualifiers | Hexa | Conc. | Qualifiers |
|----------------|--------|------------|--------------------------|--------|------------|-------------|--------|------------|-----------------|--------|------------|
| PCB-104 | (5.32) | | PCB-109/119/86/97/125/87 | 114 | J B C | PCB-155 | (3.82) | | PCB-165 | (5.17) | |
| PCB-96 | (6.54) | | PCB-117 | (10.4) | | PCB-152 | (4.47) | | PCB-146 | 38 | B |
| PCB-103 | (13.8) | | PCB-116/85 | 18.2 | J C | PCB-150 | (5.17) | | PCB-161 | (4.47) | |
| PCB-94 | (16.7) | | PCB-110 | 156 | B | PCB-136 | [105] | B EMPC | PCB-153/168 | 385 | B C |
| PCB-95 | 253 | B | PCB-115 | (8.9) | | PCB-145 | (4.74) | | PCB-141 | [100] | B EMPC |
| PCB-100/93 | (15.2) | C | PCB-82 | (13.8) | | PCB-148 | (6.37) | | PCB-130 | (7.64) | |
| PCB-102 | (11.6) | | PCB-111 | (9.85) | | PCB-151/135 | 255 | B C | PCB-137 | (6.29) | |
| PCB-98 | (13.7) | | PCB-120 | (8.12) | | PCB-154 | (6.02) | | PCB-164 | [14.1] | J EMPC |
| PCB-88 | (16.2) | | PCB-108/124 | (9.64) | C | PCB-144 | 32.2 | B | PCB-163/138/129 | 346 | B C |
| PCB-91 | (13.8) | | PCB-107 | (9.13) | | PCB-147/149 | 440 | B C | PCB-160 | (5.29) | |
| PCB-84 | [58] | B EMPC | PCB-123 | (8.32) | | PCB-134 | (8.15) | | PCB-158 | [24.7] | B EMPC |
| PCB-89 | (14.3) | | PCB-106 | (9.24) | | PCB-143 | (6.55) | | PCB-128/166 | 35.7 | J C |
| PCB-121 | (9.44) | | PCB-118 | 105 | B | PCB-139/140 | (6.16) | C | PCB-159 | 8.89 | J |
| PCB-92 | 37.2 | B | PCB-122 | (13.2) | | PCB-131 | (6.99) | | PCB-162 | (7.92) | |
| PCB-113/90/101 | 261 | B C | PCB-114 | (9.43) | | PCB-142 | (7.16) | | PCB-167 | (6.47) | |
| PCB-83 | [26.9] | EMPC | PCB-105 | 34.6 | B | PCB-132 | [106] | B EMPC | PCB-156/157 | (10.9) | C |
| PCB-99 | 51.1 | B | PCB-127 | (9.84) | | PCB-133 | (6.18) | | PCB-169 | (6.99) | |
| PCB-112 | (8.75) | | PCB-126 | (7.95) | | | | | | | |
| | | | Conc. | 1,030 | | | | | Conc. | 1,540 | |
| | | | EMPC | 1,110 | | | | | EMPC | 1,890 | |
| Hepta | Conc. | Qualifiers | Hepta | Conc. | Qualifiers | Octa | Conc. | Qualifiers | Nona | Conc. | Qualifiers |
| PCB-188 | (4.53) | | PCB-174 | 161 | B | PCB-202 | [11.4] | J EMPC | PCB-208 | (19.5) | |
| PCB-179 | 72.6 | B | PCB-177 | 63.4 | | PCB-201 | 12.7 | J | PCB-207 | (24.1) | |
| PCB-184 | (5.83) | | PCB-181 | (12) | | PCB-204 | (5.7) | | PCB-206 | (31.7) | |
| PCB-176 | 31.2 | | PCB-171/173 | 30.3 | J C | PCB-197 | (6) | | | | |
| PCB-186 | (5.17) | | PCB-172 | (13.5) | | PCB-200 | (6.37) | | Conc. | 0 | |
| PCB-178 | [48.1] | EMPC | PCB-192 | (9.34) | | PCB-198/199 | 48.3 | C | EMPC | 0 | |
| PCB-175 | (13.5) | | PCB-180/193 | 207 | B C | PCB-196 | [20.4] | EMPC | | | |
| PCB-187 | 206 | | PCB-191 | (10.5) | | PCB-203 | [19.3] | J EMPC | Deca | Conc. | Qualifiers |
| PCB-182 | (11.4) | | PCB-170 | [49.1] | B EMPC | PCB-195 | [11.2] | J EMPC | PCB-209 | (7.02) | |
| PCB-183 | [98.4] | B EMPC | PCB-190 | (10.1) | | PCB-194 | [16.2] | J EMPC | | | |
| PCB-185 | 24.2 | | PCB-189 | (6.49) | | PCB-205 | (5.64) | | | | |
| | | | Conc. | 795 | | Conc. | 61 | | | | |
| | | | EMPC | 991 | | EMPC | 140 | | | | |

Sample ID: Test#3 Mill On


| Client Data | | Sample Data | | Laboratory Data | | | | | |
|--------------------------------------|-----------------------------------|----------------|--------|-----------------|---------------------|-----------------|-------------|----------|--|
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | 02-Aug-2024 | | |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1 | Sample ID: | B9770_21382_PCB_004 | Date Extracted: | 15-Aug-2024 | | |
| Date Collected: | 31-Jul-2024 | | | QC Batch No.: | 21382 | Date Analyzed: | 17-Sep-2024 | | |
| Analyte | Conc. | DL | EMPC | Qualifier | Standard | Recovery | Standard | Recovery | |
| | pg | pg | pg | | | % | | % | |
| PCB-77 33'44'-TeCB | EMPC | | 87.4 | | ES PCB-1 | 43.1 | | | |
| PCB-81 344'5'-TeCB | ND | 17.5 | | | ES PCB-3 | 48.3 | | | |
| PCB-105 233'44'-PeCB | EMPC | | 139 | B | ES PCB-4 | 63 | | | |
| PCB-114 2344'5'-PeCB | 13.8 | | | J | ES PCB-15 | 59.3 | | | |
| PCB-118 23'44'5'-PeCB | 361 | | | | ES PCB-19 | 74.2 | | | |
| PCB-123 23'44'5'-PeCB | ND | 7.48 | | | ES PCB-37 | 47.2 | | | |
| PCB-126 33'44'5'-PeCB | ND | 8.21 | | | ES PCB-54 | 63.6 | FS PCB-32 | 81.5 | |
| PCB-156/157 233'44'5'/233'44'5'-HxCB | EMPC | | 42.2 | B C | ES PCB-77 | 48.1 | FS PCB-97 | 71.9 | |
| PCB-167 23'44'55'-HxCB | EMPC | | 14.3 | J B | ES PCB-81 | 45.9 | | | |
| PCB-169 33'44'55'-HxCB | ND | 7.68 | | | ES PCB-104 | 83 | | | |
| PCB-189 233'44'55'-HpCB | ND | 5.6 | | | ES PCB-105 | 68.7 | | | |
| | | | | | ES PCB-114 | 68.7 | | | |
| TEQs (WHO 2005 M/H) | | | | | ES PCB-118 | 73.1 | | | |
| | | | | | ES PCB-123 | 71.3 | | | |
| ND = 0 | 0.0113 | | 0.0259 | | ES PCB-126 | 44.6 | | | |
| ND = 0.5 x DL | 0.541 | | 0.554 | | ES PCB-153 | 78 | | | |
| ND = DL | 1.07 | | 1.08 | | ES PCB-155 | 72.6 | | | |
| | | | | | ES PCB-156/157 | 50.7 | | | |
| Totals | | | | | ES PCB-167 | 60.1 | | | |
| Mono-CB | 6,630 | | | | ES PCB-169 | 52.6 | | | |
| Di-CB | 4,010 | | 4,330 | | ES PCB-170 | 77.1 | | | |
| Tri-CB | 9,320 | | 9,370 | | ES PCB-180 | 81.3 | | | |
| Tetra-CB | 9,960 | | 10,200 | | ES PCB-188 | 100 | | | |
| Penta-CB | 3,990 | | 4,170 | | ES PCB-189 | 65.1 | | | |
| Hexa-CB | 2,850 | | 3,050 | | ES PCB-202 | 86 | | | |
| Hepta-CB | 1,110 | | 1,260 | | ES PCB-205 | 81 | | | |
| Octa-CB | 91.9 | | 224 | | ES PCB-206 | 94 | | | |
| Nona-CB | | | 34.8 | | ES PCB-208 | 83.5 | | | |
| Deca-CB | 35.9 | | | | ES PCB-209 | 93.4 | | | |
| | | | | | SS PCB-28 | 91.6 | | | |
| Total PCB (Mono-Deca) | 38,000 | | 39,300 | | SS PCB-111 | 91.6 | | | |
| | | | | | SS PCB-178 | 109 | | | |

Checkcode: 448-058-PRH/C

SGS North America - PCB v0.99

Report Created: 23-Sep-2024 11:06 Analyst: pw

Sample ID: Test#3 Mill On Method 1668C

| Client Data | | | Sample Data | | | Laboratory Data | | | | | |
|---|-----------------------------------|------------|--------------------|--------|------------|------------------------|---------------------|------------|-----------------|-------------|------------|
| Name: | Mostardi-Platt | | Matrix: | Air | | Project No.: | B9770 | | Date Received: | 02-Aug-2024 | |
| Project ID: | Holly Hill Cement Plant/Main Kiln | | Weight/Volume: | 1 | | Sample ID: | B9770_21382_PCB_004 | | Date Extracted: | 15-Aug-2024 | |
| Date Collected: | 31-Jul-2024 | | Units | pg | | QC Batch No.: | 21382 | | Date Analyzed: | 17-Sep-2024 | |
| | | | | | | Checkcode: | 448-058-PRH/C | | Time Analyzed: | 23:54:31 | |
| Mono | Conc. | Qualifiers | Tri | Conc. | Qualifiers | Tetra | Conc. | Qualifiers | Tetra | Conc. | Qualifiers |
| PCB-1 | 1,770 | | PCB-19 | 183 | | PCB-54 | (6.7) | | PCB-72 | 24.9 | |
| PCB-2 | 2,990 | | PCB-30/18 | 917 | C | PCB-50/53 | 423 | C | PCB-68 | 28.7 | |
| PCB-3 | 1,870 | | PCB-17 | 1,030 | | PCB-45 | 166 | | PCB-57 | (22.4) | |
| | | | PCB-27 | 261 | | PCB-51 | [165] | EMPC | PCB-58 | (19.5) | |
| Conc. | 6,630 | | PCB-24 | [16.1] | J EMPC | PCB-46 | 130 | | PCB-67 | 28.1 | B |
| EMPC | 6,630 | | PCB-16 | 348 | | PCB-52 | 1,620 | | PCB-63 | 75.5 | |
| | | | PCB-32 | 736 | | PCB-73 | (10.7) | | PCB-61/70/74/76 | 1,070 | C |
| Di | Conc. | Qualifiers | PCB-34 | 36.8 | | PCB-43 | 55.7 | | PCB-66 | 637 | |
| PCB-4 | 278 | B | PCB-23 | (18.5) | | PCB-69/49 | 1,340 | C | PCB-55 | (21) | |
| PCB-10 | 16.1 | J | PCB-26/29 | 1,130 | C | PCB-48 | 107 | | PCB-56 | 212 | |
| PCB-9 | 56.9 | | PCB-25 | 491 | | PCB-44/47/65 | 1,800 | C | PCB-60 | 110 | |
| PCB-7 | 70.7 | B | PCB-31 | 1,760 | | PCB-59/62/75 | 120 | C | PCB-80 | (19.4) | |
| PCB-6 | [319] | EMPC | PCB-28/20 | 1,160 | C | PCB-42 | 592 | | PCB-79 | (17.6) | |
| PCB-5 | 78 | | PCB-21/33 | 264 | B C | PCB-41 | 62 | | PCB-78 | (21.6) | |
| PCB-8 | 399 | B | PCB-22 | 460 | | PCB-71/40 | 865 | C | PCB-81 | (17.5) | |
| PCB-14 | 93.7 | | PCB-36 | [29.6] | EMPC | PCB-64 | 486 | | PCB-77 | [87.4] | EMPC |
| PCB-11 | 1,720 | B | PCB-39 | (17) | | | | | | | |
| PCB-13/12 | 662 | C | PCB-38 | 53.5 | | | | | | | |
| PCB-15 | 632 | | PCB-35 | 122 | B | | | | | | |
| | | | PCB-37 | 367 | | | | | | | |
| Conc. | 4,010 | | Conc. | 9,320 | | | | | Conc. | 9,960 | |
| EMPC | 4,330 | | EMPC | 9,370 | | | | | EMPC | 10,200 | |
|  <div> 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com </div> | | | | | | | | | | | |
| | | | | | | Totals | | Conc. | | EMPC | |
| | | | | | | Mono-Tri | | 20,000 | | 20,300 | |
| | | | | | | Tetra-Hexa | | 16,800 | | 17,400 | |
| | | | | | | Hepta-Deca | | 1,240 | | 1,560 | |
| | | | | | | Mono-Deca | | 38,000 | | 39,300 | |

Sample ID: Test#3 Mill On Method 1668C

| Penta | Conc. | Qualifiers | Penta | Conc. | Qualifiers | Hexa | Conc. | Qualifiers | Hexa | Conc. | Qualifiers |
|----------------|--------|------------|--------------------------|--------|------------|-------------|--------|------------|-----------------|--------|------------|
| PCB-104 | (4.85) | | PCB-109/119/86/97/125/87 | 394 | B C | PCB-155 | (2.58) | | PCB-165 | (3.67) | |
| PCB-96 | (5.97) | | PCB-117 | 38.4 | | PCB-152 | (3.02) | | PCB-146 | 87.6 | B |
| PCB-103 | (12.4) | | PCB-116/85 | 121 | C | PCB-150 | (3.49) | | PCB-161 | (3.17) | |
| PCB-94 | (15) | | PCB-110 | 647 | | PCB-136 | 141 | B | PCB-153/168 | 575 | C |
| PCB-95 | 668 | B | PCB-115 | (8) | | PCB-145 | (3.2) | | PCB-141 | 145 | B |
| PCB-100/93 | 25.1 | J C | PCB-82 | 75.5 | | PCB-148 | (4.53) | | PCB-130 | [25.2] | EMPC |
| PCB-102 | [39.3] | EMPC | PCB-111 | (8.86) | | PCB-151/135 | 346 | C | PCB-137 | [16.4] | J EMPC |
| PCB-98 | (12.4) | | PCB-120 | (7.3) | | PCB-154 | (4.27) | | PCB-164 | [33.9] | EMPC |
| PCB-88 | (14.6) | | PCB-108/124 | 21 | J B C | PCB-144 | 53.4 | B | PCB-163/138/129 | 587 | C |
| PCB-91 | 175 | | PCB-107 | 54 | B | PCB-147/149 | 631 | C | PCB-160 | (3.76) | |
| PCB-84 | 216 | | PCB-123 | (7.48) | | PCB-134 | 42.9 | | PCB-158 | 53.8 | B |
| PCB-89 | (12.9) | | PCB-106 | (8.3) | | PCB-143 | (4.65) | | PCB-128/166 | [61.8] | EMPC C |
| PCB-121 | (8.49) | | PCB-118 | 361 | | PCB-139/140 | (4.37) | C | PCB-159 | (6.39) | |
| PCB-92 | 176 | | PCB-122 | [7.54] | J EMPC | PCB-131 | (4.97) | | PCB-162 | (7.49) | |
| PCB-113/90/101 | 666 | B C | PCB-114 | 13.8 | J | PCB-142 | (5.08) | | PCB-167 | [14.3] | J B EMPC |
| PCB-83 | 71.5 | | PCB-105 | [139] | B EMPC | PCB-132 | 189 | | PCB-156/157 | [42.2] | B EMPC C |
| PCB-99 | 260 | B | PCB-127 | (8.35) | | PCB-133 | (4.39) | | PCB-169 | (7.68) | |
| PCB-112 | (7.86) | | PCB-126 | (8.21) | | | | | | | |
| | | | Conc. | 3,990 | | | | | Conc. | 2,850 | |
| | | | EMPC | 4,170 | | | | | EMPC | 3,050 | |
| Hepta | Conc. | Qualifiers | Hepta | Conc. | Qualifiers | Octa | Conc. | Qualifiers | Nona | Conc. | Qualifiers |
| PCB-188 | (4.15) | | PCB-174 | 179 | | PCB-202 | [12] | J EMPC | PCB-208 | (21.5) | |
| PCB-179 | 110 | B | PCB-177 | 76.8 | | PCB-201 | 20.5 | | PCB-207 | (26.5) | |
| PCB-184 | (5.34) | | PCB-181 | (8.31) | | PCB-204 | (5.48) | | PCB-206 | [34.8] | EMPC |
| PCB-176 | [28.6] | EMPC | PCB-171/173 | [37.8] | J EMPC C | PCB-197 | (5.77) | | | | |
| PCB-186 | (4.74) | | PCB-172 | [21.4] | EMPC | PCB-200 | [10.9] | J EMPC | Conc. | 0 | |
| PCB-178 | [53] | EMPC | PCB-192 | (6.48) | | PCB-198/199 | 71.3 | C | EMPC | 34.8 | |
| PCB-175 | (9.35) | | PCB-180/193 | 271 | C | PCB-196 | [27] | EMPC | | | |
| PCB-187 | 239 | | PCB-191 | (7.27) | | PCB-203 | [25] | EMPC | Deca | Conc. | Qualifiers |
| PCB-182 | (7.94) | | PCB-170 | 106 | | PCB-195 | [23.2] | EMPC | PCB-209 | 35.9 | |
| PCB-183 | 125 | B | PCB-190 | (8.25) | | PCB-194 | [34.3] | EMPC | | | |
| PCB-185 | [14.7] | J EMPC | PCB-189 | (5.6) | | PCB-205 | (5.94) | | | | |
| | | | Conc. | 1,110 | | Conc. | 91.9 | | | | |
| | | | EMPC | 1,260 | | EMPC | 224 | | | | |

Sample ID: Test#2 Mill Off


| Client Data | | Sample Data | | Laboratory Data | | | | | |
|--------------------------------------|-----------------------------------|----------------|-----------|-----------------|------------------------|-----------------|-------------|----------|--|
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | 02-Aug-2024 | | |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1 | Sample ID: | B9770_21382_PCB_005-RJ | Date Extracted: | 15-Aug-2024 | | |
| Date Collected: | 01-Aug-2024 | | | QC Batch No.: | 21382 | Date Analyzed: | 18-Sep-2024 | | |
| Analyte | Conc. | DL | EMPC | Qualifier | Standard | Recovery | Standard | Recovery | |
| | pg | pg | pg | | | % | | % | |
| PCB-77 33'44'-TeCB | 220 | | | | ES PCB-1 | 31 | | | |
| PCB-81 344'5'-TeCB | 69 | | | | ES PCB-3 | 63.4 | | | |
| PCB-105 233'44'-PeCB | EMPC | | 136 | B | ES PCB-4 | 44.6 | | | |
| PCB-114 2344'5'-PeCB | ND | 34.1 | | | ES PCB-15 | 69.3 | | | |
| PCB-118 23'44'5'-PeCB | 458 | | | | ES PCB-19 | 92.2 | | | |
| PCB-123 23'44'5'-PeCB | ND | 35.1 | | | ES PCB-37 | 54.7 | | | |
| PCB-126 33'44'5'-PeCB | 33.8 | | | B | ES PCB-54 | 62.7 | FS PCB-32 | 62.7 V | |
| PCB-156/157 233'44'5'/233'44'5'-HxCB | EMPC | | 42.2 | B C | ES PCB-77 | 64.6 | FS PCB-97 | 83.1 | |
| PCB-167 23'44'55'-HxCB | 28.1 | | | B | ES PCB-81 | 69 | | | |
| PCB-169 33'44'55'-HxCB | ND | 14.8 | | | ES PCB-104 | 82.5 | | | |
| PCB-189 233'44'55'-HpCB | ND | 5.57 | | | ES PCB-105 | 82.4 | | | |
| | | | | | ES PCB-114 | 82.4 | | | |
| TEQs (WHO 2005 M/H) | | | | | ES PCB-118 | 79.4 | | | |
| | | | | | ES PCB-123 | 82.4 | | | |
| ND = 0 | 3.44 | | 3.44 | | ES PCB-126 | 77.2 | | | |
| ND = 0.5 x DL | 3.66 | | 3.67 | | ES PCB-153 | 79.4 | | | |
| ND = DL | 3.88 | | 3.89 | | ES PCB-155 | 66.5 | | | |
| | | | | | ES PCB-156/157 | 61.9 | | | |
| Totals | | | | | ES PCB-167 | 66.3 | | | |
| Mono-CB | 7,550,000 | | | E | ES PCB-169 | 65.3 | | | |
| Di-CB | 896,000 | | | E | ES PCB-170 | 80.9 | | | |
| Tri-CB | 128,000 | | | | ES PCB-180 | 76.8 | | | |
| Tetra-CB | 49,400 | | 49,700 | | ES PCB-188 | 100 | | | |
| Penta-CB | 13,600 | | 35,000 | | ES PCB-189 | 69.8 | | | |
| Hexa-CB | 20,800 | | 21,300 | | ES PCB-202 | 89.8 | | | |
| Hepta-CB | 6,290 | | 6,470 | | ES PCB-205 | 86.2 | | | |
| Octa-CB | 313 | | 775 | | ES PCB-206 | 95.1 | | | |
| Nona-CB | ND | 28.7 | | | ES PCB-208 | 85.4 | | | |
| Deca-CB | ND | 6.5 | | | ES PCB-209 | 98.1 | | | |
| | | | | | SS PCB-28 | 88.2 | | | |
| Total PCB (Mono-Deca) | 8,670,000 | | 8,690,000 | E | SS PCB-111 | 90.8 | | | |
| | | | | | SS PCB-178 | 106 | | | |

Checkcode: 664-149-HVC/C

SGS North America - PCB v0.99

Report Created: 27-Sep-2024 13:17 Analyst: pw

Sample ID: Test#2 Mill Off Method 1668C

| Client Data | | | Sample Data | | | Laboratory Data | | | | | |
|---|-----------------------------------|------------|--------------------|---------|------------|------------------------|------------------------|------------|-----------------|-------------|------------|
| Name: | Mostardi-Platt | | Matrix: | Air | | Project No.: | B9770 | | Date Received: | 02-Aug-2024 | |
| Project ID: | Holly Hill Cement Plant/Main Kiln | | Weight/Volume: | 1 | | Sample ID: | B9770_21382_PCB_005-RJ | | Date Extracted: | 15-Aug-2024 | |
| Date Collected: | 01-Aug-2024 | | Units | pg | | QC Batch No.: | 21382 | | Date Analyzed: | 18-Sep-2024 | |
| | | | | | | Checkcode: | 664-149-HVC/C | | Time Analyzed: | 16:12:47 | |
| Mono | Conc. | Qualifiers | Tri | Conc. | Qualifiers | Tetra | Conc. | Qualifiers | Tetra | Conc. | Qualifiers |
| PCB-1 | 2,550,000 | E | PCB-19 | 2,650 | | PCB-54 | 216 | | PCB-72 | 427 | |
| PCB-2 | 3,440,000 | E | PCB-30/18 | 13,600 | C | PCB-50/53 | 2,140 | C | PCB-68 | 518 | |
| PCB-3 | 1,570,000 | E | PCB-17 | 7,520 | | PCB-45 | 1,830 | | PCB-57 | 527 | |
| | | | PCB-27 | 4,120 | | PCB-51 | 771 | | PCB-58 | 269 | |
| Conc. | 7,550,000 | | PCB-24 | 3,670 | | PCB-46 | 671 | | PCB-67 | 564 | |
| EMPC | 7,550,000 | | PCB-16 | 6,790 | | PCB-52 | 20,300 | | PCB-63 | 362 | |
| | | | PCB-32 | 2,350 | | PCB-73 | 318 | | PCB-61/70/74/76 | 2,750 | C |
| Di | Conc. | Qualifiers | PCB-34 | 5,310 | | PCB-43 | 530 | | PCB-66 | 881 | |
| PCB-4 | 26,100 | | PCB-23 | 5,660 | | PCB-69/49 | 3,180 | C | PCB-55 | 190 | |
| PCB-10 | 26,400 | | PCB-26/29 | 13,100 | C | PCB-48 | 1,500 | | PCB-56 | 648 | |
| PCB-9 | 55,400 | | PCB-25 | 5,480 | | PCB-44/47/65 | 4,270 | C | PCB-60 | [168] | EMPC |
| PCB-7 | 81,400 | E | PCB-31 | 5,610 | | PCB-59/62/75 | 1,290 | C | PCB-80 | [140] | EMPC |
| PCB-6 | 110,000 | E | PCB-28/20 | 10,600 | C | PCB-42 | 1,190 | | PCB-79 | 325 | |
| PCB-5 | 88,900 | E | PCB-21/33 | 14,800 | C | PCB-41 | 565 | | PCB-78 | 179 | |
| PCB-8 | 66,600 | | PCB-22 | 3,760 | | PCB-71/40 | 1,860 | C | PCB-81 | 69 | |
| PCB-14 | 109,000 | E | PCB-36 | 5,030 | | PCB-64 | 882 | | PCB-77 | 220 | |
| PCB-11 | 75,400 | | PCB-39 | 2,980 | | | | | | | |
| PCB-13/12 | 249,000 | E C | PCB-38 | 5,970 | | | | | | | |
| PCB-15 | 8,310 | | PCB-35 | 6,350 | | | | | | | |
| | | | PCB-37 | 2,120 | | | | | | | |
| Conc. | 896,000 | | Conc. | 128,000 | | | | | Conc. | 49,400 | |
| EMPC | 896,000 | | EMPC | 128,000 | | | | | EMPC | 49,700 | |
|  <div> 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com </div> | | | | | | | | | | | |
| | | | | | | Totals | | Conc. | | EMPC | |
| | | | | | | Mono-Tri | | 8,580,000 | | 8,580,000 | |
| | | | | | | Tetra-Hexa | | 83,800 | | 106,000 | |
| | | | | | | Hepta-Deca | | 6,600 | | 7,250 | |
| | | | | | | Mono-Deca | | 8,670,000 | | 8,690,000 | |

Sample ID: Test#2 Mill Off Method 1668C

| Penta | Conc. | Qualifiers | Penta | Conc. | Qualifiers | Hexa | Conc. | Qualifiers | Hexa | Conc. | Qualifiers |
|----------------|---------|------------|--------------------------|---------|------------|-------------|--------|------------|-----------------|--------|------------|
| PCB-104 | [157] | EMPC | PCB-109/119/86/97/125/87 | [3,770] | EMPC C | PCB-155 | 661 | | PCB-165 | (6.15) | |
| PCB-96 | 536 | | PCB-117 | (43.7) | | PCB-152 | [57.3] | EMPC | PCB-146 | 543 | |
| PCB-103 | [404] | EMPC | PCB-116/85 | 351 | C | PCB-150 | 199 | | PCB-161 | (5.32) | |
| PCB-94 | (66) | | PCB-110 | 1,880 | | PCB-136 | 2,480 | | PCB-153/168 | 2,780 | C |
| PCB-95 | [8,660] | EMPC | PCB-115 | (37.5) | | PCB-145 | (6.39) | | PCB-141 | 797 | |
| PCB-100/93 | (61.8) | C | PCB-82 | 209 | | PCB-148 | [50.2] | EMPC | PCB-130 | (8.92) | |
| PCB-102 | [985] | EMPC | PCB-111 | [38.9] | B EMPC | PCB-151/135 | 3,020 | C | PCB-137 | 153 | |
| PCB-98 | (52.4) | | PCB-120 | (33.8) | | PCB-154 | 232 | | PCB-164 | 208 | |
| PCB-88 | (66.9) | | PCB-108/124 | [61.5] | B EMPC C | PCB-144 | 412 | | PCB-163/138/129 | 1,970 | C |
| PCB-91 | 1,260 | | PCB-107 | 160 | | PCB-147/149 | 5,590 | C | PCB-160 | (6.3) | |
| PCB-84 | [1,890] | EMPC | PCB-123 | (35.1) | | PCB-134 | 309 | | PCB-158 | 205 | |
| PCB-89 | 127 | | PCB-106 | (39.1) | | PCB-143 | (7.73) | | PCB-128/166 | 173 | C |
| PCB-121 | [93.1] | EMPC | PCB-118 | 458 | | PCB-139/140 | [135] | EMPC C | PCB-159 | [32.6] | EMPC |
| PCB-92 | 1,260 | | PCB-122 | (46.6) | | PCB-131 | [50.7] | EMPC | PCB-162 | (15.2) | |
| PCB-113/90/101 | 6,130 | C | PCB-114 | (34.1) | | PCB-142 | [10.1] | J EMPC | PCB-167 | 28.1 | B |
| PCB-83 | [5,250] | EMPC | PCB-105 | [136] | B EMPC | PCB-132 | 1,090 | | PCB-156/157 | [42.2] | B EMPC C |
| PCB-99 | 1,150 | | PCB-127 | (40.8) | | PCB-133 | [69.2] | EMPC | PCB-169 | (14.8) | |
| PCB-112 | (35.3) | | PCB-126 | 33.8 | B | | | | | | |
| | | | Conc. | 13,600 | | | | | Conc. | 20,800 | |
| | | | EMPC | 35,000 | | | | | EMPC | 21,300 | |
| Hepta | Conc. | Qualifiers | Hepta | Conc. | Qualifiers | Octa | Conc. | Qualifiers | Nona | Conc. | Qualifiers |
| PCB-188 | [16.4] | J EMPC | PCB-174 | 815 | | PCB-202 | [115] | EMPC | PCB-208 | (21) | |
| PCB-179 | 986 | | PCB-177 | 339 | | PCB-201 | [101] | EMPC | PCB-207 | (25.5) | |
| PCB-184 | [166] | EMPC | PCB-181 | (11.5) | | PCB-204 | (4.74) | | PCB-206 | (36.5) | |
| PCB-176 | 418 | | PCB-171/173 | 165 | C | PCB-197 | [35] | EMPC | | | |
| PCB-186 | (5.6) | | PCB-172 | 88.2 | | PCB-200 | [50.6] | EMPC | Conc. | 0 | |
| PCB-178 | 342 | | PCB-192 | (9.01) | | PCB-198/199 | 233 | C | EMPC | 0 | |
| PCB-175 | 53.4 | | PCB-180/193 | 728 | C | PCB-196 | [78.4] | EMPC | | | |
| PCB-187 | 1,450 | | PCB-191 | (10.2) | | PCB-203 | [81.6] | EMPC | Deca | Conc. | Qualifiers |
| PCB-182 | (10.9) | | PCB-170 | 168 | | PCB-195 | 30.1 | | PCB-209 | (6.5) | |
| PCB-183 | 601 | | PCB-190 | (9.07) | | PCB-194 | 49.9 | | | | |
| PCB-185 | 133 | | PCB-189 | (5.57) | | PCB-205 | (7.49) | | | | |
| | | | Conc. | 6,290 | | Conc. | 313 | | | | |
| | | | EMPC | 6,470 | | EMPC | 775 | | | | |

Sample ID: Test#4 Mill On


| Client Data | | Sample Data | | Laboratory Data | | | | | |
|--------------------------------------|-----------------------------------|----------------|--------|-----------------|------------------------|-----------------|-------------|----------|--|
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | 02-Aug-2024 | | |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1 | Sample ID: | B9770_21382_PCB_006-RJ | Date Extracted: | 15-Aug-2024 | | |
| Date Collected: | 01-Aug-2024 | | | QC Batch No.: | 21382 | Date Analyzed: | 18-Sep-2024 | | |
| Analyte | Conc. | DL | EMPC | Qualifier | Standard | Recovery | Standard | Recovery | |
| | pg | pg | pg | | | % | | % | |
| PCB-77 33'44'-TeCB | 87.6 | | | | ES PCB-1 | 15.4 V | | | |
| PCB-81 344'5'-TeCB | ND | 14.9 | | | ES PCB-3 | 44.3 | | | |
| PCB-105 233'44'-PeCB | 64.3 | | | B | ES PCB-4 | 27.1 | | | |
| PCB-114 2344'5'-PeCB | ND | 9.27 | | | ES PCB-15 | 67.9 | | | |
| PCB-118 23'44'5'-PeCB | 152 | | | B | ES PCB-19 | 68.4 | | | |
| PCB-123 23'44'5'-PeCB | ND | 9.3 | | | ES PCB-37 | 48.8 | | | |
| PCB-126 33'44'5'-PeCB | EMPC | | 11.7 | J B | ES PCB-54 | 55.7 | FS PCB-32 | 80.1 | |
| PCB-156/157 233'44'5'/233'44'5'-HxCB | 27.6 | | | J B C | ES PCB-77 | 54.2 | FS PCB-97 | 64.1 V | |
| PCB-167 23'44'55'-HxCB | EMPC | | 11.7 | J B | ES PCB-81 | 57.6 | | | |
| PCB-169 33'44'55'-HxCB | ND | 12.8 | | | ES PCB-104 | 77.8 | | | |
| PCB-189 233'44'55'-HpCB | EMPC | | 5.98 | J | ES PCB-105 | 67.6 | | | |
| | | | | | ES PCB-114 | 67.5 | | | |
| TEQs (WHO 2005 M/H) | | | | | ES PCB-118 | 69.3 | | | |
| | | | | | ES PCB-123 | 64.7 | | | |
| ND = 0 | 0.0161 | | 1.18 | | ES PCB-126 | 59.2 | | | |
| ND = 0.5 x DL | 0.579 | | 1.38 | | ES PCB-153 | 67.9 | | | |
| ND = DL | 1.14 | | 1.57 | | ES PCB-155 | 62.4 | | | |
| | | | | | ES PCB-156/157 | 52.9 | | | |
| Totals | | | | | ES PCB-167 | 62.3 | | | |
| Mono-CB | 32,100 | | | | ES PCB-169 | 36.9 | | | |
| Di-CB | 5,800 | | 6,200 | | ES PCB-170 | 76.5 | | | |
| Tri-CB | 2,410 | | 2,900 | | ES PCB-180 | 72 | | | |
| Tetra-CB | 1,630 | | 1,800 | | ES PCB-188 | 94.6 | | | |
| Penta-CB | 1,930 | | 2,340 | | ES PCB-189 | 68.6 | | | |
| Hexa-CB | 3,030 | | 3,340 | | ES PCB-202 | 82.7 | | | |
| Hepta-CB | 1,020 | | 1,290 | | ES PCB-205 | 79.5 | | | |
| Octa-CB | 21.2 | | 233 | | ES PCB-206 | 89.4 | | | |
| Nona-CB | 36.9 | | | | ES PCB-208 | 77.7 | | | |
| Deca-CB | | | 26.2 | | ES PCB-209 | 95.6 | | | |
| | | | | | SS PCB-28 | 86.8 | | | |
| Total PCB (Mono-Deca) | 48,000 | | 50,300 | | SS PCB-111 | 99.1 | | | |
| | | | | | SS PCB-178 | 107 | | | |

Checkcode: 130-858-FZM/C

SGS North America - PCB v0.99

Report Created: 27-Sep-2024 13:17 Analyst: pw

Sample ID: Test#4 Mill On Method 1668C

| Client Data | | | Sample Data | | | Laboratory Data | | | | | |
|---|--------|------------|------------------|--------|------------|-----------------------------------|--------|------------|-----------------------------|--------|------------|
| Name: Mostardi-Platt | | | Matrix: Air | | | Project No.: B9770 | | | Date Received: 02-Aug-2024 | | |
| Project ID: Holly Hill Cement Plant/Main Kiln | | | Weight/Volume: 1 | | | Sample ID: B9770_21382_PCB_006-RJ | | | Date Extracted: 15-Aug-2024 | | |
| Date Collected: 01-Aug-2024 | | | Units: pg | | | QC Batch No.: 21382 | | | Date Analyzed: 18-Sep-2024 | | |
| | | | | | | Checkcode: 130-858-FZM/C | | | Time Analyzed: 17:10:21 | | |
| Mono | Conc. | Qualifiers | Tri | Conc. | Qualifiers | Tetra | Conc. | Qualifiers | Tetra | Conc. | Qualifiers |
| PCB-1 | 13,300 | | PCB-19 | 43 | | PCB-54 | (6.94) | | PCB-72 | (17.9) | |
| PCB-2 | 12,300 | | PCB-30/18 | 216 | B C | PCB-50/53 | [21.1] | J EMPC C | PCB-68 | [15] | J EMPC |
| PCB-3 | 6,600 | | PCB-17 | [360] | B EMPC | PCB-45 | [31.2] | B EMPC | PCB-57 | (18.7) | |
| | | | PCB-27 | [32.8] | EMPC | PCB-51 | [16] | J B EMPC | PCB-58 | [3.28] | J EMPC |
| Conc. | 32,100 | | PCB-24 | (16.5) | | PCB-46 | 12.9 | J | PCB-67 | (16.3) | |
| EMPC | 32,100 | | PCB-16 | 165 | | PCB-52 | 270 | B | PCB-63 | (19.3) | |
| | | | PCB-32 | 98.4 | B | PCB-73 | (8.71) | | PCB-61/70/74/76 | 358 | B C |
| Di | Conc. | Qualifiers | PCB-34 | [27.9] | EMPC | PCB-43 | (12.5) | | PCB-66 | 161 | B |
| PCB-4 | [234] | B EMPC | PCB-23 | [33.2] | EMPC | PCB-69/49 | 109 | B C | PCB-55 | (17.2) | |
| PCB-10 | [160] | EMPC | PCB-26/29 | 133 | B C | PCB-48 | 45.2 | | PCB-56 | 78.6 | |
| PCB-9 | 126 | | PCB-25 | 54 | | PCB-44/47/65 | 236 | B C | PCB-60 | 67.4 | |
| PCB-7 | 183 | | PCB-31 | 280 | B | PCB-59/62/75 | 30.9 | J C | PCB-80 | (17.5) | |
| PCB-6 | 254 | | PCB-28/20 | 400 | B C | PCB-42 | 57.4 | | PCB-79 | 15.4 | J |
| PCB-5 | 313 | | PCB-21/33 | 346 | C | PCB-41 | 27 | | PCB-78 | (18.7) | |
| PCB-8 | 330 | B | PCB-22 | 150 | | PCB-71/40 | [85] | B EMPC C | PCB-81 | (14.9) | |
| PCB-14 | 317 | | PCB-36 | 63.8 | | PCB-64 | 73 | B | PCB-77 | 87.6 | |
| PCB-11 | 2,560 | B | PCB-39 | [40.2] | B EMPC | | | | | | |
| PCB-13/12 | 1,480 | C | PCB-38 | 78.7 | | | | | | | |
| PCB-15 | 242 | | PCB-35 | 196 | B | | | | | | |
| | | | PCB-37 | 187 | B | | | | | | |
| Conc. | 5,800 | | Conc. | 2,410 | | | | | Conc. | 1,630 | |
| EMPC | 6,200 | | EMPC | 2,900 | | | | | EMPC | 1,800 | |
|  <div> 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com </div> | | | | | | Totals | | | | | |
| | | | | | | Mono-Tri | | Conc. | | EMPC | |
| | | | | | | Tetra-Hexa | | 6,590 | | 7,490 | |
| | | | | | | Hepta-Deca | | 1,070 | | 1,580 | |
| | | | | | | Mono-Deca | | 48,000 | | 50,300 | |

Sample ID: Test#4 Mill On Method 1668C

| Penta | Conc. | Qualifiers | Penta | Conc. | Qualifiers | Hexa | Conc. | Qualifiers | Hexa | Conc. | Qualifiers |
|----------------|--------|------------|--------------------------|--------|------------|-------------|--------|------------|-----------------|--------|------------|
| PCB-104 | (5.55) | | PCB-109/119/86/97/125/87 | [239] | B EMPC C | PCB-155 | (4.15) | | PCB-165 | (4.93) | |
| PCB-96 | (6.72) | | PCB-117 | (11.6) | | PCB-152 | (4.63) | | PCB-146 | 80.2 | B |
| PCB-103 | (14.5) | | PCB-116/85 | [42] | EMPC C | PCB-150 | (5.28) | | PCB-161 | (4.27) | |
| PCB-94 | (17.5) | | PCB-110 | 319 | B | PCB-136 | 184 | | PCB-153/168 | 719 | C |
| PCB-95 | 485 | B | PCB-115 | (9.94) | | PCB-145 | (4.85) | | PCB-141 | [190] | EMPC |
| PCB-100/93 | (16.3) | C | PCB-82 | [24] | EMPC | PCB-148 | (5.93) | | PCB-130 | (7.15) | |
| PCB-102 | [14.4] | J EMPC | PCB-111 | (10.9) | | PCB-151/135 | 409 | C | PCB-137 | [16] | J EMPC |
| PCB-98 | (13.9) | | PCB-120 | (8.94) | | PCB-154 | (5.52) | | PCB-164 | 46.2 | |
| PCB-88 | (17.7) | | PCB-108/124 | (11.1) | C | PCB-144 | [55.8] | B EMPC | PCB-163/138/129 | 549 | C |
| PCB-91 | 38.6 | | PCB-107 | (9.91) | | PCB-147/149 | 752 | C | PCB-160 | (5.05) | |
| PCB-84 | 99.2 | B | PCB-123 | (9.3) | | PCB-134 | 36.6 | | PCB-158 | [34.5] | B EMPC |
| PCB-89 | (14.9) | | PCB-106 | (10.4) | | PCB-143 | (6.19) | | PCB-128/166 | 46.8 | C |
| PCB-121 | (10.1) | | PCB-118 | 152 | B | PCB-139/140 | (5.77) | C | PCB-159 | (7.2) | |
| PCB-92 | 73.4 | B | PCB-122 | (12.7) | | PCB-131 | (6.5) | | PCB-162 | (8.45) | |
| PCB-113/90/101 | 604 | B C | PCB-114 | (9.27) | | PCB-142 | (6.58) | | PCB-167 | [11.7] | J B EMPC |
| PCB-83 | [85.5] | EMPC | PCB-105 | 64.3 | B | PCB-132 | 182 | | PCB-156/157 | 27.6 | J B C |
| PCB-99 | 91.9 | B | PCB-127 | (9.96) | | PCB-133 | (5.81) | | PCB-169 | (12.8) | |
| PCB-112 | (9.35) | | PCB-126 | [11.7] | J B EMPC | | | | | | |
| | | | Conc. | 1,930 | | | | | Conc. | 3,030 | |
| | | | EMPC | 2,340 | | | | | EMPC | 3,340 | |
| Hepta | Conc. | Qualifiers | Hepta | Conc. | Qualifiers | Octa | Conc. | Qualifiers | Nona | Conc. | Qualifiers |
| PCB-188 | (3.95) | | PCB-174 | 188 | | PCB-202 | [26.1] | EMPC | PCB-208 | (16.3) | |
| PCB-179 | [93.2] | B EMPC | PCB-177 | 74.6 | | PCB-201 | [18.8] | J EMPC | PCB-207 | (19.8) | |
| PCB-184 | (4.84) | | PCB-181 | (10.5) | | PCB-204 | (4.49) | | PCB-206 | 36.9 | |
| PCB-176 | [60.7] | EMPC | PCB-171/173 | [27] | J EMPC C | PCB-197 | (4.86) | | | | |
| PCB-186 | (4.45) | | PCB-172 | [21.1] | EMPC | PCB-200 | 21.2 | | Conc. | 36.9 | |
| PCB-178 | [63.1] | EMPC | PCB-192 | (8.28) | | PCB-198/199 | [50.7] | EMPC C | EMPC | 36.9 | |
| PCB-175 | (12) | | PCB-180/193 | 256 | C | PCB-196 | [41.7] | EMPC | | | |
| PCB-187 | 256 | | PCB-191 | (9.38) | | PCB-203 | [32.5] | EMPC | Deca | Conc. | Qualifiers |
| PCB-182 | (10) | | PCB-170 | 76.4 | B | PCB-195 | [16.1] | J EMPC | PCB-209 | [26.2] | EMPC |
| PCB-183 | 131 | B | PCB-190 | (10.1) | | PCB-194 | [26.2] | EMPC | | | |
| PCB-185 | 33.6 | | PCB-189 | [5.98] | J EMPC | PCB-205 | (5.12) | | | | |
| | | | Conc. | 1,020 | | Conc. | 21.2 | | | | |
| | | | EMPC | 1,290 | | EMPC | 233 | | | | |

Sample ID: Test#5 Mill On

| Client Data | | Sample Data | | Laboratory Data | | | | | |
|-------------------------------------|-----------------------------------|----------------|---------|-----------------|------------------------|-----------------|-------------|----------|--|
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | 02-Aug-2024 | | |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1 | Sample ID: | B9770_21382_PCB_007-RJ | Date Extracted: | 15-Aug-2024 | | |
| Date Collected: | 01-Aug-2024 | | | QC Batch No.: | 21382 | Date Analyzed: | 18-Sep-2024 | | |
| Analyte | Conc. | DL | EMPC | Qualifier | Standard | Recovery | Standard | Recovery | |
| | pg | pg | pg | | | % | | % | |
| PCB-77 33'44'-TeCB | EMPC | | 13.3 | J | ES PCB-1 | 32.5 | | | |
| PCB-81 344'5'-TeCB | ND | 10.8 | | | ES PCB-3 | 48 | | | |
| PCB-105 233'44'-PeCB | 30.7 | | | B | ES PCB-4 | 36 | | | |
| PCB-114 2344'5'-PeCB | ND | 7.37 | | | ES PCB-15 | 65.5 | | | |
| PCB-118 23'44'5'-PeCB | 76.1 | | | B | ES PCB-19 | 68.6 | | | |
| PCB-123 23'44'5'-PeCB | ND | 6.59 | | | ES PCB-37 | 55.5 | | | |
| PCB-126 33'44'5'-PeCB | ND | 5.64 | | | ES PCB-54 | 64.2 | FS PCB-32 | 76.9 | |
| PCB-156/157 233'44'5/233'44'5'-HxCB | ND | 7.69 | | C | ES PCB-77 | 61.3 | FS PCB-97 | 80.6 | |
| PCB-167 23'44'55'-HxCB | ND | 4.48 | | | ES PCB-81 | 63 | | | |
| PCB-169 33'44'55'-HxCB | ND | 5.09 | | | ES PCB-104 | 77.7 | | | |
| PCB-189 233'44'55'-HpCB | ND | 4.21 | | | ES PCB-105 | 77.5 | | | |
| | | | | | ES PCB-114 | 80.2 | | | |
| TEQs (WHO 2005 M/H) | | | | | ES PCB-118 | 79.6 | | | |
| | | | | | ES PCB-123 | 87.7 | | | |
| ND = 0 | 0.0032 | | 0.00453 | | ES PCB-126 | 69.1 | | | |
| ND = 0.5 x DL | 0.364 | | 0.365 | | ES PCB-153 | 68.3 | | | |
| ND = DL | 0.726 | | 0.726 | | ES PCB-155 | 61.6 | | | |
| | | | | | ES PCB-156/157 | 61.4 | | | |
| Totals | | | | | ES PCB-167 | 66.9 | | | |
| Mono-CB | 18,700 | | | | ES PCB-169 | 67.5 | | | |
| Di-CB | 3,360 | | 4,000 | | ES PCB-170 | 78.6 | | | |
| Tri-CB | 728 | | 1,220 | | ES PCB-180 | 77 | | | |
| Tetra-CB | 804 | | 950 | | ES PCB-188 | 93.1 | | | |
| Penta-CB | 942 | | 1,060 | | ES PCB-189 | 72 | | | |
| Hexa-CB | 1,360 | | 1,430 | | ES PCB-202 | 92 | | | |
| Hepta-CB | 371 | | 480 | | ES PCB-205 | 88.7 | | | |
| Octa-CB | 9.61 | | 41.7 | | ES PCB-206 | 94.6 | | | |
| Nona-CB | ND | 21.7 | | | ES PCB-208 | 85.3 | | | |
| Deca-CB | ND | 6.27 | | | ES PCB-209 | 101 | | | |
| | | | | | SS PCB-28 | 89.2 | | | |
| Total PCB (Mono-Deca) | 26,300 | | 27,900 | | SS PCB-111 | 82.7 | | | |
| | | | | | SS PCB-178 | 117 | | | |


Checkcode: 934-187-CNX/C

SGS North America - PCB v0.99

Report Created: 23-Sep-2024 11:07 Analyst: pw

Sample ID: Test#5 Mill On

Method 1668C

| Client Data | | | Sample Data | | | Laboratory Data | | | | | |
|---|--------|------------|------------------|--------|------------|-----------------------------------|--------|------------|-----------------------------|--------|------------|
| Name: Mostardi-Platt | | | Matrix: Air | | | Project No.: B9770 | | | Date Received: 02-Aug-2024 | | |
| Project ID: Holly Hill Cement Plant/Main Kiln | | | Weight/Volume: 1 | | | Sample ID: B9770_21382_PCB_007-RJ | | | Date Extracted: 15-Aug-2024 | | |
| Date Collected: 01-Aug-2024 | | | Units: pg | | | QC Batch No.: 21382 | | | Date Analyzed: 18-Sep-2024 | | |
| | | | | | | Checkcode: 934-187-CN/C | | | Time Analyzed: 18:07:56 | | |
| Mono | Conc. | Qualifiers | Tri | Conc. | Qualifiers | Tetra | Conc. | Qualifiers | Tetra | Conc. | Qualifiers |
| PCB-1 | 7,170 | | PCB-19 | [29.5] | EMPC | PCB-54 | (6.8) | | PCB-72 | (13) | |
| PCB-2 | 7,500 | | PCB-30/18 | 136 | B C | PCB-50/53 | 22.9 | J C | PCB-68 | (13.6) | |
| PCB-3 | 4,020 | | PCB-17 | [108] | B EMPC | PCB-45 | 28.2 | B | PCB-57 | (13.5) | |
| | | | PCB-27 | [31.1] | EMPC | PCB-51 | [14.8] | J B EMPC | PCB-58 | (11.9) | |
| Conc. | 18,700 | | PCB-24 | [10.6] | J EMPC | PCB-46 | (12.2) | | PCB-67 | (11.8) | |
| EMPC | 18,700 | | PCB-16 | 79.7 | | PCB-52 | 205 | B | PCB-63 | (14) | |
| | | | PCB-32 | 62.3 | B | PCB-73 | (7.12) | | PCB-61/70/74/76 | 178 | B C |
| Di | Conc. | Qualifiers | PCB-34 | (18.5) | | PCB-43 | (10.2) | | PCB-66 | 66.7 | B |
| PCB-4 | [200] | B EMPC | PCB-23 | (18.6) | | PCB-69/49 | 69.2 | B C | PCB-55 | (12.5) | |
| PCB-10 | 78.3 | | PCB-26/29 | 77.1 | B C | PCB-48 | [19.6] | J EMPC | PCB-56 | [21.5] | EMPC |
| PCB-9 | 83.8 | | PCB-25 | 29.7 | | PCB-44/47/65 | 162 | B C | PCB-60 | [18] | J EMPC |
| PCB-7 | 136 | | PCB-31 | [122] | B EMPC | PCB-59/62/75 | [10.8] | J EMPC C | PCB-80 | (12.7) | |
| PCB-6 | 161 | B | PCB-28/20 | 193 | B C | PCB-42 | 29.3 | | PCB-79 | (11.2) | |
| PCB-5 | 228 | | PCB-21/33 | 128 | B C | PCB-41 | [14.8] | J EMPC | PCB-78 | (13.6) | |
| PCB-8 | [211] | B EMPC | PCB-22 | [53.7] | EMPC | PCB-71/40 | 41.9 | B C | PCB-81 | (10.8) | |
| PCB-14 | [147] | EMPC | PCB-36 | 22.5 | | PCB-64 | [32.7] | B EMPC | PCB-77 | [13.3] | J EMPC |
| PCB-11 | 1,950 | B | PCB-39 | (17) | | | | | | | |
| PCB-13/12 | 723 | C | PCB-38 | [19.9] | J EMPC | | | | | | |
| PCB-15 | [87.2] | B EMPC | PCB-35 | [63.8] | B EMPC | | | | | | |
| | | | PCB-37 | [55.5] | B EMPC | | | | | | |
| Conc. | 3,360 | | Conc. | 728 | | | | | Conc. | 804 | |
| EMPC | 4,000 | | EMPC | 1,220 | | | | | EMPC | 950 | |
|  <div> 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com </div> | | | | | | Totals | | | | | |
| | | | | | | Mono-Tri | | Conc. | | EMPC | |
| | | | | | | Tetra-Hexa | | 3,110 | | 23,900 | |
| | | | | | | Hepta-Deca | | 381 | | 3,440 | |
| | | | | | | Mono-Deca | | 26,300 | | 522 | |
| | | | | | | | | | | 27,900 | |

Sample ID: Test#5 Mill On Method 1668C


| Penta | Conc. | Qualifiers | Penta | Conc. | Qualifiers | Hexa | Conc. | Qualifiers | Hexa | Conc. | Qualifiers |
|----------------|--------|------------|--------------------------|--------|------------|-------------|--------|------------|-----------------|--------|------------|
| PCB-104 | (4.48) | | PCB-109/119/86/97/125/87 | 123 | B C | PCB-155 | (3.95) | | PCB-165 | (5.54) | |
| PCB-96 | (5.42) | | PCB-117 | (8.19) | | PCB-152 | (4.4) | | PCB-146 | [34.5] | B EMPC |
| PCB-103 | (10.3) | | PCB-116/85 | (9.43) | C | PCB-150 | (5.02) | | PCB-161 | (4.79) | |
| PCB-94 | (12.4) | | PCB-110 | 145 | B | PCB-136 | 98 | B | PCB-153/168 | 254 | B C |
| PCB-95 | 231 | B | PCB-115 | (7.04) | | PCB-145 | (4.61) | | PCB-141 | 92.2 | B |
| PCB-100/93 | (11.6) | C | PCB-82 | [14.1] | J EMPC | PCB-148 | (6.67) | | PCB-130 | (8.04) | |
| PCB-102 | (9.59) | | PCB-111 | (7.72) | | PCB-151/135 | 197 | B C | PCB-137 | (7.35) | |
| PCB-98 | (9.82) | | PCB-120 | (6.34) | | PCB-154 | (6.2) | | PCB-164 | (4.7) | |
| PCB-88 | (12.6) | | PCB-108/124 | (7.84) | C | PCB-144 | 29 | B | PCB-163/138/129 | 262 | B C |
| PCB-91 | [21.2] | EMPC | PCB-107 | 8.34 | J B | PCB-147/149 | 338 | B C | PCB-160 | (5.67) | |
| PCB-84 | [42.9] | B EMPC | PCB-123 | (6.59) | | PCB-134 | (8.43) | | PCB-158 | [16.3] | J B EMPC |
| PCB-89 | (10.5) | | PCB-106 | (7.33) | | PCB-143 | (6.96) | | PCB-128/166 | [18.1] | J EMPC C |
| PCB-121 | (7.14) | | PCB-118 | 76.1 | B | PCB-139/140 | (6.48) | C | PCB-159 | (4.58) | |
| PCB-92 | [36.2] | B EMPC | PCB-122 | (10.1) | | PCB-131 | (7.31) | | PCB-162 | (5.37) | |
| PCB-113/90/101 | 250 | B C | PCB-114 | (7.37) | | PCB-142 | (7.4) | | PCB-167 | (4.48) | |
| PCB-83 | (13.2) | | PCB-105 | 30.7 | B | PCB-132 | 89.8 | B | PCB-156/157 | (7.69) | C |
| PCB-99 | 77.8 | B | PCB-127 | (7.56) | | PCB-133 | (6.53) | | PCB-169 | (5.09) | |
| PCB-112 | (6.63) | | PCB-126 | (5.64) | | | | | | | |
| | | | Conc. | 942 | | | | | Conc. | 1,360 | |
| | | | EMPC | 1,060 | | | | | EMPC | 1,430 | |
| Hepta | Conc. | Qualifiers | Hepta | Conc. | Qualifiers | Octa | Conc. | Qualifiers | Nona | Conc. | Qualifiers |
| PCB-188 | (3.92) | | PCB-174 | 72.6 | B | PCB-202 | [6.01] | J EMPC | PCB-208 | (15.8) | |
| PCB-179 | 52.4 | B | PCB-177 | 38.2 | | PCB-201 | (4.45) | | PCB-207 | (19.2) | |
| PCB-184 | (4.8) | | PCB-181 | (8.08) | | PCB-204 | (3.93) | | PCB-206 | (27.6) | |
| PCB-176 | [16.1] | J EMPC | PCB-171/173 | (9.65) | C | PCB-197 | (4.26) | | | | |
| PCB-186 | (4.41) | | PCB-172 | (9.13) | | PCB-200 | 9.61 | J | Conc. | 0 | |
| PCB-178 | 24.9 | | PCB-192 | (6.35) | | PCB-198/199 | [18.8] | J EMPC C | EMPC | 0 | |
| PCB-175 | (9.21) | | PCB-180/193 | [82.8] | B EMPC C | PCB-196 | (5.37) | | | | |
| PCB-187 | 102 | B | PCB-191 | (7.19) | | PCB-203 | (4.46) | | Deca | Conc. | Qualifiers |
| PCB-182 | (7.7) | | PCB-170 | 25.3 | B | PCB-195 | [7.27] | J EMPC | PCB-209 | (6.27) | |
| PCB-183 | 56 | B | PCB-190 | (7.79) | | PCB-194 | (5.47) | | | | |
| PCB-185 | [10.2] | J EMPC | PCB-189 | (4.21) | | PCB-205 | (4.17) | | | | |
| | | | Conc. | 371 | | Conc. | 9.61 | | | | |
| | | | EMPC | 480 | | EMPC | 41.7 | | | | |



Sample ID: Field Blank

| Client Data | | Sample Data | | Laboratory Data | | | | | |
|-------------------------------------|-----------------------------------|----------------|---------|-----------------|------------------------|-----------------|-------------|----------|--|
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | 02-Aug-2024 | | |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1 | Sample ID: | B9770_21382_PCB_008-RJ | Date Extracted: | 15-Aug-2024 | | |
| Date Collected: | 01-Aug-2024 | | | QC Batch No.: | 21382 | Date Analyzed: | 18-Sep-2024 | | |
| Analyte | Conc. | DL | EMPC | Qualifier | Standard | Recovery | Standard | Recovery | |
| | pg | pg | pg | | | % | | % | |
| PCB-77 33'44'-TeCB | ND | 12.7 | | | ES PCB-1 | 35.4 | | | |
| PCB-81 344'5'-TeCB | ND | 12.4 | | | ES PCB-3 | 44.9 | | | |
| PCB-105 233'44'-PeCB | 19.7 | | | J B | ES PCB-4 | 61.5 | | | |
| PCB-114 2344'5'-PeCB | ND | 6.61 | | | ES PCB-15 | 60.2 | | | |
| PCB-118 23'44'5'-PeCB | 61.8 | | | B | ES PCB-19 | 68 | | | |
| PCB-123 23'44'5'-PeCB | ND | 7 | | | ES PCB-37 | 54.5 | | | |
| PCB-126 33'44'5'-PeCB | ND | 6.92 | | | ES PCB-54 | 63.5 | FS PCB-32 | 83.1 | |
| PCB-156/157 233'44'5/233'44'5'-HxCB | ND | 8.56 | | C | ES PCB-77 | 58 | FS PCB-97 | 70.7 | |
| PCB-167 23'44'55'-HxCB | ND | 5.46 | | | ES PCB-81 | 58.8 | | | |
| PCB-169 33'44'55'-HxCB | ND | 5.83 | | | ES PCB-104 | 80.1 | | | |
| PCB-189 233'44'55'-HpCB | ND | 3.84 | | | ES PCB-105 | 70.9 | | | |
| | | | | | ES PCB-114 | 67.9 | | | |
| TEQs (WHO 2005 M/H) | | | | | ES PCB-118 | 68.8 | | | |
| | | | | | ES PCB-123 | 67.6 | | | |
| ND = 0 | 0.00244 | | 0.00244 | | ES PCB-126 | 60.7 | | | |
| ND = 0.5 x DL | 0.439 | | 0.439 | | ES PCB-153 | 76.3 | | | |
| ND = DL | 0.875 | | 0.875 | | ES PCB-155 | 64.2 | | | |
| | | | | | ES PCB-156/157 | 64.3 | | | |
| Totals | | | | | ES PCB-167 | 65.9 | | | |
| Mono-CB | 157 | | 386 | | ES PCB-169 | 67.2 | | | |
| Di-CB | 1,310 | | | | ES PCB-170 | 82.3 | | | |
| Tri-CB | 407 | | 598 | | ES PCB-180 | 75.9 | | | |
| Tetra-CB | 501 | | 743 | | ES PCB-188 | 90.3 | | | |
| Penta-CB | 737 | | 991 | | ES PCB-189 | 71.9 | | | |
| Hexa-CB | 571 | | 754 | | ES PCB-202 | 81.1 | | | |
| Hepta-CB | 31.6 | | 216 | | ES PCB-205 | 85.1 | | | |
| Octa-CB | ND | 5.79 | | | ES PCB-206 | 94 | | | |
| Nona-CB | ND | 27.4 | | | ES PCB-208 | 83.6 | | | |
| Deca-CB | ND | 8.03 | | | ES PCB-209 | 98.2 | | | |
| | | | | | SS PCB-28 | 89.8 | | | |
| Total PCB (Mono-Deca) | 3,710 | | 5,000 | | SS PCB-111 | 102 | | | |
| | | | | | SS PCB-178 | 110 | | | |

Sample ID: Field Blank Method 1668C

| Client Data | | | Sample Data | | | Laboratory Data | | | | | |
|---|--------|------------|------------------|--------|------------|-----------------------------------|--------|------------|-----------------------------|--------|------------|
| Name: Mostardi-Platt | | | Matrix: Air | | | Project No.: B9770 | | | Date Received: 02-Aug-2024 | | |
| Project ID: Holly Hill Cement Plant/Main Kiln | | | Weight/Volume: 1 | | | Sample ID: B9770_21382_PCB_008-RJ | | | Date Extracted: 15-Aug-2024 | | |
| Date Collected: 01-Aug-2024 | | | Units: pg | | | QC Batch No.: 21382 | | | Date Analyzed: 18-Sep-2024 | | |
| | | | | | | Checkcode: 861-232-VYZ/C | | | Time Analyzed: 19:05:31 | | |
| Mono | Conc. | Qualifiers | Tri | Conc. | Qualifiers | Tetra | Conc. | Qualifiers | Tetra | Conc. | Qualifiers |
| PCB-1 | 157 | B | PCB-19 | (21.8) | | PCB-54 | (7.63) | | PCB-72 | (14.9) | |
| PCB-2 | [159] | B EMPC | PCB-30/18 | 101 | B C | PCB-50/53 | 15.7 | J C | PCB-68 | (15.6) | |
| PCB-3 | [69.4] | B EMPC | PCB-17 | [47.8] | B EMPC | PCB-45 | (12.2) | | PCB-57 | (15.5) | |
| | | | PCB-27 | [15.8] | J EMPC | PCB-51 | [19.9] | J B EMPC | PCB-58 | (13.6) | |
| Conc. | 157 | | PCB-24 | (17.2) | | PCB-46 | (12.4) | | PCB-67 | (13.5) | |
| EMPC | 386 | | PCB-16 | 52.8 | | PCB-52 | 169 | B | PCB-63 | (16) | |
| | | | PCB-32 | [36.4] | B EMPC | PCB-73 | (7.22) | | PCB-61/70/74/76 | [129] | B EMPC C |
| Di | Conc. | Qualifiers | PCB-34 | (16.9) | | PCB-43 | (10.4) | | PCB-66 | [41.1] | B EMPC |
| PCB-4 | 104 | B | PCB-23 | (17) | | PCB-69/49 | 58.3 | B C | PCB-55 | (14.3) | |
| PCB-10 | (9.22) | | PCB-26/29 | 26.3 | J B C | PCB-48 | 18.3 | J | PCB-56 | 24.6 | |
| PCB-9 | 16.3 | J | PCB-25 | (13.8) | | PCB-44/47/65 | 156 | B C | PCB-60 | [18.2] | J EMPC |
| PCB-7 | 25.6 | B | PCB-31 | 84.7 | B | PCB-59/62/75 | (7.98) | C | PCB-80 | (14.5) | |
| PCB-6 | 31.6 | B | PCB-28/20 | 116 | B C | PCB-42 | 26.7 | | PCB-79 | (12.9) | |
| PCB-5 | (13.4) | | PCB-21/33 | [57.6] | B EMPC C | PCB-41 | (13.2) | | PCB-78 | (15.6) | |
| PCB-8 | 110 | B | PCB-22 | [33.5] | EMPC | PCB-71/40 | [34.3] | J B EMPC C | PCB-81 | (12.4) | |
| PCB-14 | (12.9) | | PCB-36 | (14.1) | | PCB-64 | 32.1 | B | PCB-77 | (12.7) | |
| PCB-11 | 958 | B | PCB-39 | (15.5) | | | | | | | |
| PCB-13/12 | 28.4 | J C | PCB-38 | (15.4) | | | | | | | |
| PCB-15 | 33.5 | B | PCB-35 | (16.2) | | | | | | | |
| | | | PCB-37 | 25.8 | B | | | | | | |
| Conc. | 1,310 | | Conc. | 407 | | | | | Conc. | 501 | |
| EMPC | 1,310 | | EMPC | 598 | | | | | EMPC | 743 | |
|  <div> 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com </div> | | | | | | Totals | | | | | |
| | | | | | | Mono-Tri | | Conc. | | EMPC | |
| | | | | | | Tetra-Hexa | | 1,870 | | 2,290 | |
| | | | | | | Hepta-Deca | | 1,810 | | 2,490 | |
| | | | | | | Mono-Deca | | 31.6 | | 216 | |
| | | | | | | | | 3,710 | | 5,000 | |

Sample ID: Field Blank Method 1668C

| Penta | Conc. | Qualifiers | Penta | Conc. | Qualifiers | Hexa | Conc. | Qualifiers | Hexa | Conc. | Qualifiers |
|----------------|--------|------------|--------------------------|--------|------------|-------------|--------|------------|-----------------|--------|------------|
| PCB-104 | (4.68) | | PCB-109/119/86/97/125/87 | 107 | J B C | PCB-155 | (3.74) | | PCB-165 | (3.89) | |
| PCB-96 | (5.67) | | PCB-117 | (8.7) | | PCB-152 | (4.18) | | PCB-146 | 15 | J B |
| PCB-103 | (10.9) | | PCB-116/85 | 22.5 | J C | PCB-150 | (4.76) | | PCB-161 | (3.37) | |
| PCB-94 | (13.2) | | PCB-110 | [152] | B EMPC | PCB-136 | [46.4] | B EMPC | PCB-153/168 | 174 | B C |
| PCB-95 | 251 | B | PCB-115 | (7.48) | | PCB-145 | (4.38) | | PCB-141 | (4.97) | |
| PCB-100/93 | (12.3) | C | PCB-82 | (11.4) | | PCB-148 | (4.69) | | PCB-130 | (5.65) | |
| PCB-102 | (10.2) | | PCB-111 | (8.2) | | PCB-151/135 | [94.2] | B EMPC C | PCB-137 | (5.16) | |
| PCB-98 | (10.4) | | PCB-120 | (6.74) | | PCB-154 | (4.36) | | PCB-164 | [15] | J EMPC |
| PCB-88 | (13.3) | | PCB-108/124 | (8.33) | C | PCB-144 | [17.3] | J B EMPC | PCB-163/138/129 | 137 | B C |
| PCB-91 | [17.1] | J EMPC | PCB-107 | (7.46) | | PCB-147/149 | 173 | B C | PCB-160 | (3.98) | |
| PCB-84 | 52.6 | B | PCB-123 | (7) | | PCB-134 | [10.5] | J EMPC | PCB-158 | 19.4 | J B |
| PCB-89 | (11.2) | | PCB-106 | (7.8) | | PCB-143 | (4.89) | | PCB-128/166 | (7.39) | C |
| PCB-121 | (7.59) | | PCB-118 | 61.8 | B | PCB-139/140 | (4.56) | C | PCB-159 | (5.58) | |
| PCB-92 | [26] | B EMPC | PCB-122 | (9.02) | | PCB-131 | (5.14) | | PCB-162 | (6.55) | |
| PCB-113/90/101 | 222 | B C | PCB-114 | (6.61) | | PCB-142 | (5.2) | | PCB-167 | (5.46) | |
| PCB-83 | (14) | | PCB-105 | 19.7 | J B | PCB-132 | 52.4 | B | PCB-156/157 | (8.56) | C |
| PCB-99 | [60.1] | B EMPC | PCB-127 | (6.99) | | PCB-133 | (4.59) | | PCB-169 | (5.83) | |
| PCB-112 | (7.04) | | PCB-126 | (6.92) | | | | | | | |
| | | | Conc. | 737 | | | | | Conc. | 571 | |
| | | | EMPC | 991 | | | | | EMPC | 754 | |
| Hepta | Conc. | Qualifiers | Hepta | Conc. | Qualifiers | Octa | Conc. | Qualifiers | Nona | Conc. | Qualifiers |
| PCB-188 | (4.26) | | PCB-174 | [28.6] | B EMPC | PCB-202 | (4.45) | | PCB-208 | (18.8) | |
| PCB-179 | [33.6] | B EMPC | PCB-177 | [11.1] | J EMPC | PCB-201 | (5.89) | | PCB-207 | (22.9) | |
| PCB-184 | (5.21) | | PCB-181 | (5.96) | | PCB-204 | (5.21) | | PCB-206 | (36) | |
| PCB-176 | (5.7) | | PCB-171/173 | 7.76 | J C | PCB-197 | (5.63) | | | | |
| PCB-186 | (4.8) | | PCB-172 | (6.74) | | PCB-200 | (5.57) | | Conc. | 0 | |
| PCB-178 | (7.12) | | PCB-192 | (4.68) | | PCB-198/199 | (6.62) | C | EMPC | 0 | |
| PCB-175 | (6.8) | | PCB-180/193 | [52.1] | B EMPC C | PCB-196 | (7.11) | | | | |
| PCB-187 | [49.7] | B EMPC | PCB-191 | (5.3) | | PCB-203 | (5.9) | | Deca | Conc. | Qualifiers |
| PCB-182 | (5.68) | | PCB-170 | [9.12] | J B EMPC | PCB-195 | (9.78) | | PCB-209 | (8.03) | |
| PCB-183 | 23.9 | B | PCB-190 | (5.84) | | PCB-194 | (9.36) | | | | |
| PCB-185 | (7.18) | | PCB-189 | (3.84) | | PCB-205 | (7.14) | | | | |
| | | | Conc. | 31.6 | | Conc. | 0 | | | | |
| | | | EMPC | 216 | | EMPC | 0 | | | | |

Sample ID: Method Blank B9770_21382


| Client Data | | Sample Data | | Laboratory Data | | | | | |
|--------------------------------------|-----------------------------------|----------------|-------|-----------------|-------------------|-----------------|-------------|----------|--|
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | n/a | | |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1 | Sample ID: | MB1_21382_PCB_SDS | Date Extracted: | 15-Aug-2024 | | |
| Date Collected: | n/a | | | QC Batch No.: | 21382 | Date Analyzed: | 17-Sep-2024 | | |
| Analyte | Conc. | DL | EMPC | Qualifier | Standard | Recovery | Standard | Recovery | |
| | pg | pg | pg | | | % | | % | |
| PCB-77 33'44'-TeCB | ND | 15.7 | | | ES PCB-1 | 48.8 V | | | |
| PCB-81 344'5'-TeCB | ND | 15.1 | | | ES PCB-3 | 48.6 V | | | |
| PCB-105 233'44'-PeCB | 19 | | | J | ES PCB-4 | 81 | | | |
| PCB-114 2344'5'-PeCB | ND | 7.45 | | | ES PCB-15 | 60.7 V | | | |
| PCB-118 23'44'5'-PeCB | 35.9 | | | | ES PCB-19 | 82.3 | | | |
| PCB-123 23'44'5'-PeCB | EMPC | | 6.3 | J | ES PCB-37 | 40.9 V | | | |
| PCB-126 33'44'5'-PeCB | 13.2 | | | J | ES PCB-54 | 66.8 V | FS PCB-32 | 97.5 | |
| PCB-156/157 233'44'5'/233'44'5'-HxCB | EMPC | | 11.1 | J C | ES PCB-77 | 45.3 V | FS PCB-97 | 69.1 V | |
| PCB-167 23'44'55'-HxCB | 6.91 | | | J | ES PCB-81 | 47.8 V | | | |
| PCB-169 33'44'55'-HxCB | ND | 5.61 | | | ES PCB-104 | 84.5 | | | |
| PCB-189 233'44'55'-HpCB | ND | 6.39 | | | ES PCB-105 | 71.1 | | | |
| | | | | | ES PCB-114 | 70 | | | |
| TEQs (WHO 2005 M/H) | | | | | ES PCB-118 | 71.2 | | | |
| | | | | | ES PCB-123 | 72.4 | | | |
| ND = 0 | 1.32 | | 1.32 | | ES PCB-126 | 49.3 V | | | |
| ND = 0.5 x DL | 1.41 | | 1.41 | | ES PCB-153 | 75.3 | | | |
| ND = DL | 1.5 | | 1.5 | | ES PCB-155 | 64.6 V | | | |
| | | | | | ES PCB-156/157 | 55.8 V | | | |
| Totals | | | | | ES PCB-167 | 53.6 V | | | |
| Mono-CB | 55.7 | | 111 | | ES PCB-169 | 56.5 V | | | |
| Di-CB | 889 | | | | ES PCB-170 | 85.3 | | | |
| Tri-CB | 262 | | 373 | | ES PCB-180 | 83.1 | | | |
| Tetra-CB | 340 | | 425 | | ES PCB-188 | 94.3 | | | |
| Penta-CB | 219 | | 434 | | ES PCB-189 | 56.1 V | | | |
| Hexa-CB | 186 | | 288 | | ES PCB-202 | 83.6 | | | |
| Hepta-CB | 48.1 | | 93.3 | | ES PCB-205 | 82.4 | | | |
| Octa-CB | ND | 4.75 | | | ES PCB-206 | 95.4 | | | |
| Nona-CB | ND | 27.2 | | | ES PCB-208 | 89.4 | | | |
| Deca-CB | ND | 7.26 | | | ES PCB-209 | 90 | | | |
| | | | | | SS PCB-28 | 98.2 | | | |
| Total PCB (Mono-Deca) | 2,000 | | 2,610 | | SS PCB-111 | 97.6 | | | |
| | | | | | SS PCB-178 | 112 | | | |

Checkcode: 634-357-DMX/C

SGS North America - PCB v0.99

Report Created: 23-Sep-2024 11:05 Analyst: pw

Sample ID: Method Blank B9770_21382 Method 1668C

| Client Data | | | Sample Data | | | Laboratory Data | | | | | |
|---|--------|------------|------------------|--------|------------|------------------------------|--------|------------|-----------------------------|--------|------------|
| Name: Mostardi-Platt | | | Matrix: Air | | | Project No.: B9770 | | | Date Received: n/a | | |
| Project ID: Holly Hill Cement Plant/Main Kiln | | | Weight/Volume: 1 | | | Sample ID: MB1_21382_PCB_SDS | | | Date Extracted: 15-Aug-2024 | | |
| Date Collected: n/a | | | Units: pg | | | QC Batch No.: 21382 | | | Date Analyzed: 17-Sep-2024 | | |
| | | | | | | Checkcode: 634-357-DMX/C | | | Time Analyzed: 17:58:55 | | |
| Mono | Conc. | Qualifiers | Tri | Conc. | Qualifiers | Tetra | Conc. | Qualifiers | Tetra | Conc. | Qualifiers |
| PCB-1 | 55.7 | | PCB-19 | (16) | | PCB-54 | (6.62) | | PCB-72 | (18.4) | |
| PCB-2 | [32.4] | EMPC | PCB-30/18 | 57.5 | C | PCB-50/53 | (12.2) | C | PCB-68 | (19.5) | |
| PCB-3 | [22.6] | EMPC | PCB-17 | [36.6] | EMPC | PCB-45 | 15.3 | J | PCB-57 | (19.3) | |
| | | | PCB-27 | (13.2) | | PCB-51 | 15.6 | J | PCB-58 | (16.8) | |
| Conc. | 55.7 | | PCB-24 | (13.1) | | PCB-46 | (15.3) | | PCB-67 | 12.7 | J |
| EMPC | 111 | | PCB-16 | (19.9) | | PCB-52 | 92.1 | | PCB-63 | (20.3) | |
| | | | PCB-32 | 30.2 | | PCB-73 | (8.82) | | PCB-61/70/74/76 | 83.9 | C |
| Di | Conc. | Qualifiers | PCB-34 | (17.1) | | PCB-43 | (12.9) | | PCB-66 | [33.5] | EMPC |
| PCB-4 | 53.7 | | PCB-23 | (17.3) | | PCB-69/49 | [39.4] | J EMPC C | PCB-55 | (18.1) | |
| PCB-10 | (9.75) | | PCB-26/29 | [27.7] | J EMPC C | PCB-48 | (12.7) | | PCB-56 | (18.3) | |
| PCB-9 | (10.4) | | PCB-25 | (14) | | PCB-44/47/65 | 97.8 | C | PCB-60 | (21.2) | |
| PCB-7 | 8.26 | J | PCB-31 | 57.2 | | PCB-59/62/75 | (9.63) | C | PCB-80 | (16.7) | |
| PCB-6 | 18.6 | J | PCB-28/20 | 66.2 | C | PCB-42 | (14.3) | | PCB-79 | (15.1) | |
| PCB-5 | (12.5) | | PCB-21/33 | [32.4] | J EMPC C | PCB-41 | (16.6) | | PCB-78 | (18.6) | |
| PCB-8 | 43 | | PCB-22 | (15.1) | | PCB-71/40 | 22.2 | J C | PCB-81 | (15.1) | |
| PCB-14 | (11.9) | | PCB-36 | (14.5) | | PCB-64 | [12.7] | J EMPC | PCB-77 | (15.7) | |
| PCB-11 | 749 | | PCB-39 | [14.2] | J EMPC | | | | | | |
| PCB-13/12 | (12.2) | C | PCB-38 | (15.8) | | | | | | | |
| PCB-15 | 15.9 | J | PCB-35 | 25.3 | | | | | | | |
| | | | PCB-37 | 25.5 | | | | | | | |
| Conc. | 889 | | Conc. | 262 | | | | | Conc. | 340 | |
| EMPC | 889 | | EMPC | 373 | | | | | EMPC | 425 | |
|  <div> 5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 www.us.sgs.com </div> | | | | | | Totals | | | | | |
| | | | | | | Mono-Tri | | Conc. | | EMPC | |
| | | | | | | Tetra-Hexa | | 745 | | 1,150 | |
| | | | | | | Hepta-Deca | | 48.1 | | 93.3 | |
| | | | | | | Mono-Deca | | 2,000 | | 2,610 | |

Sample ID: Method Blank B9770_21382 Method 1668C

| Penta | Conc. | Qualifiers | Penta | Conc. | Qualifiers | Hexa | Conc. | Qualifiers | Hexa | Conc. | Qualifiers |
|----------------|--------|------------|--------------------------|--------|------------|-------------|--------|------------|-----------------|--------|------------|
| PCB-104 | (4.14) | | PCB-109/119/86/97/125/87 | [47.8] | J EMPC C | PCB-155 | (3.37) | | PCB-165 | (3.76) | |
| PCB-96 | (5.09) | | PCB-117 | (7.82) | | PCB-152 | (3.94) | | PCB-146 | 16.1 | J |
| PCB-103 | (10.4) | | PCB-116/85 | (8.87) | C | PCB-150 | (4.56) | | PCB-161 | (3.25) | |
| PCB-94 | (12.6) | | PCB-110 | 54.3 | | PCB-136 | [17.9] | J EMPC | PCB-153/168 | 43.8 | C |
| PCB-95 | 69.2 | | PCB-115 | (6.7) | | PCB-145 | (4.18) | | PCB-141 | [17] | J EMPC |
| PCB-100/93 | (11.4) | C | PCB-82 | (10.4) | | PCB-148 | (4.63) | | PCB-130 | (5.56) | |
| PCB-102 | (8.76) | | PCB-111 | [10.9] | J EMPC | PCB-151/135 | 32 | J C | PCB-137 | (4.57) | |
| PCB-98 | (10.3) | | PCB-120 | [8.91] | J EMPC | PCB-154 | (4.38) | | PCB-164 | (3.49) | |
| PCB-88 | (12.2) | | PCB-108/124 | [11.1] | J EMPC C | PCB-144 | 8.71 | J | PCB-163/138/129 | [36.7] | J EMPC C |
| PCB-91 | (10.4) | | PCB-107 | [13.7] | J EMPC | PCB-147/149 | 61.4 | C | PCB-160 | (3.85) | |
| PCB-84 | [18.6] | J EMPC | PCB-123 | [6.3] | J EMPC | PCB-134 | (5.93) | | PCB-158 | [17.6] | J EMPC |
| PCB-89 | (10.8) | | PCB-106 | (6.95) | | PCB-143 | (4.76) | | PCB-128/166 | (7.57) | C |
| PCB-121 | (7.11) | | PCB-118 | 35.9 | | PCB-139/140 | [1.99] | J EMPC C | PCB-159 | (5.74) | |
| PCB-92 | [14.7] | J EMPC | PCB-122 | (10.4) | | PCB-131 | (5.08) | | PCB-162 | (6.73) | |
| PCB-113/90/101 | [73.9] | EMPC C | PCB-114 | (7.45) | | PCB-142 | (5.2) | | PCB-167 | 6.91 | J |
| PCB-83 | (12.6) | | PCB-105 | 19 | J | PCB-132 | 16.9 | J | PCB-156/157 | [11.1] | J EMPC C |
| PCB-99 | 27.5 | | PCB-127 | [9.18] | J EMPC | PCB-133 | (4.49) | | PCB-169 | (5.61) | |
| PCB-112 | (6.59) | | PCB-126 | 13.2 | J | | | | | | |
| | | | Conc. | 219 | | | | | Conc. | 186 | |
| | | | EMPC | 434 | | | | | EMPC | 288 | |
| Hepta | Conc. | Qualifiers | Hepta | Conc. | Qualifiers | Octa | Conc. | Qualifiers | Nona | Conc. | Qualifiers |
| PCB-188 | (4.84) | | PCB-174 | 16.6 | J | PCB-202 | (3.83) | | PCB-208 | (19) | |
| PCB-179 | 12.4 | J | PCB-177 | (9.43) | | PCB-201 | (5.31) | | PCB-207 | (23.5) | |
| PCB-184 | (6.22) | | PCB-181 | (8.94) | | PCB-204 | (4.63) | | PCB-206 | (35.4) | |
| PCB-176 | (6.62) | | PCB-171/173 | (10.6) | C | PCB-197 | (4.87) | | | | |
| PCB-186 | (5.52) | | PCB-172 | (10.1) | | PCB-200 | (5.17) | | Conc. | 0 | |
| PCB-178 | (8.35) | | PCB-192 | (6.97) | | PCB-198/199 | (5.78) | C | EMPC | 0 | |
| PCB-175 | (10.1) | | PCB-180/193 | [24.3] | J EMPC C | PCB-196 | (6.45) | | | | |
| PCB-187 | 19.1 | J | PCB-191 | (7.82) | | PCB-203 | (5.23) | | Deca | Conc. | Qualifiers |
| PCB-182 | (8.54) | | PCB-170 | [7.78] | J EMPC | PCB-195 | (8.58) | | PCB-209 | (7.26) | |
| PCB-183 | [13.1] | J EMPC | PCB-190 | (7.88) | | PCB-194 | (7.84) | | | | |
| PCB-185 | (10.5) | | PCB-189 | (6.39) | | PCB-205 | (5.68) | | | | |
| | | | Conc. | 48.1 | | Conc. | 0 | | | | |
| | | | EMPC | 93.3 | | EMPC | 0 | | | | |

B9770

Project ID: Holly Hill Cement Plant/Main Kiln

| Sample Summary | | Method AP-CM/GC-HRMS(PAH) | | | | | | | | |
|------------------------|-----------------------------|-----------------------------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|---------------|
| Analyte | Method Blank B9770_21382 | Method Blank B9770_21382 | Test#1 Mill Off | Test#1 Mill On | Test#2 Mill On | Test#3 Mill On | Test#2 Mill Off | Test#4 Mill On | Test#5 Mill On | Field Blank |
| | Conc ng/Train | Conc ng/Train | Conc ng/Train | Conc ng/Train | Conc ng/Train | Conc ng/Train | Conc ng/Train | Conc ng/Train | Conc ng/Train | Conc ng/Train |
| Naphthalene | 463 | 1070 | 16500 | 12100 | 10200 | 16500 | 19400 | 81300 | 67700 | 5330 |
| 2-Methylnaphthalene | 42.2 | 80.7 | 47500 | 658 | 350 | 574 | 54100 | 3620 | 4120 | 509 |
| Acenaphthylene | 1.06 | 3.6 | 23100 | 39.8 | 24 | 41.2 | 41500 | 253 | 233 | 48.4 |
| Acenaphthene | 8.66 | 9.63 | 277 | 31.3 | 16 | 24.6 | 1220 | 37.3 | 41.9 | 21.7 |
| Fluorene | 7.71 | 9.63 | 166 | 64.8 | 19.6 | 35.3 | 1280 | 53.1 | 37.7 | 21.7 |
| Phenanthrene | 25 | 31.9 | 8730 | 504 | 235 | 405 | 28000 | 852 | 356 | 202 |
| Anthracene | 1.27 | 2.41 | 161 | 22.2 | 13.5 | 16 | 897 | 36.7 | 16.6 | 4.78 |
| Fluoranthene | 7.84 | 10.5 | 326 | 157 | 73.6 | 258 | 884 | 327 | 57.2 | 38.8 |
| Pyrene | 13.3 | 14.6 | 126 | 92.9 | 50.8 | 348 | 323 | 441 | 39.5 | 21.8 |
| Benzo(a)Anthracene | 0.878 | 1.23 | 7.99 | 11 | 2.3 | 5.68 | 5.72 | 8.4 | < 2.59 | 0.879 |
| Chrysene | 1.99 | 2.07 | 15.1 | 14.8 | 6.93 | 14.7 | 12 | 21.1 | 4.09 | 1.95 |
| Benzo(b)Fluoranthene | 1.53 | 1.95 | 12.9 | 9.44 | 5.82 | 26.9 | 16.9 | 28 | < 3.04 | 1.85 |
| Benzo(k)Fluoranthene | 0.487 | 1.05 | 4.92 | 5.94 | 2.67 | 6.43 | < 4.29 | 9.06 | < 3.4 | 0.678 |
| Benzo(e)Pyrene | 0.934 | 1.52 | 12.7 | 14.2 | 10.3 | 124 | 8.67 | 135 | < 3.1 | 1.79 |
| Benzo(a)Pyrene | 0.429 | 0.896 | 5.01 | 6.3 | 2.98 | 23.1 | < 6.65 | 41.9 | < 4.15 | 0.902 |
| Perylene | < 4.36 | < 0.657 | < 6.27 | < 5.9 | < 4.32 | < 7.6 | < 8.67 | < 7.06 | < 5.64 | < 0.816 |
| Indeno(1,2,3-cd)Pyrene | 0.648 | 1.51 | 8.64 | 10.2 | 5.64 | 85.4 | < 12.1 | 78.4 | < 11.4 | 1.03 |
| Dibenzo(a,h)Anthracene | < 0.328 | 1.08 | < 9.41 | < 9.97 | < 3.95 | < 8.44 | < 9.64 | < 17.8 | < 12.3 | < 0.856 |
| Benzo(ghi)Perylene | 0.992 | 1.9 | 26.7 | 30.5 | 25.2 | 459 | 12.1 | 494 | < 7.25 | 2.92 |
| Checkcode: | 311-444-ZTD | 526-812-HCT | 895-251-BPM | 497-948-DRH | 821-451-CGF | 460-335-CKF | 378-188-GCL | 758-697-HXX | 219-876-DCT | 258-537-HTT |
| Total PAH | 578 | 1246 | 96980 | 13772 | 11044 | 18947 | 147659 | 87736 | 72606 | 6210 |

(<x) = <RL

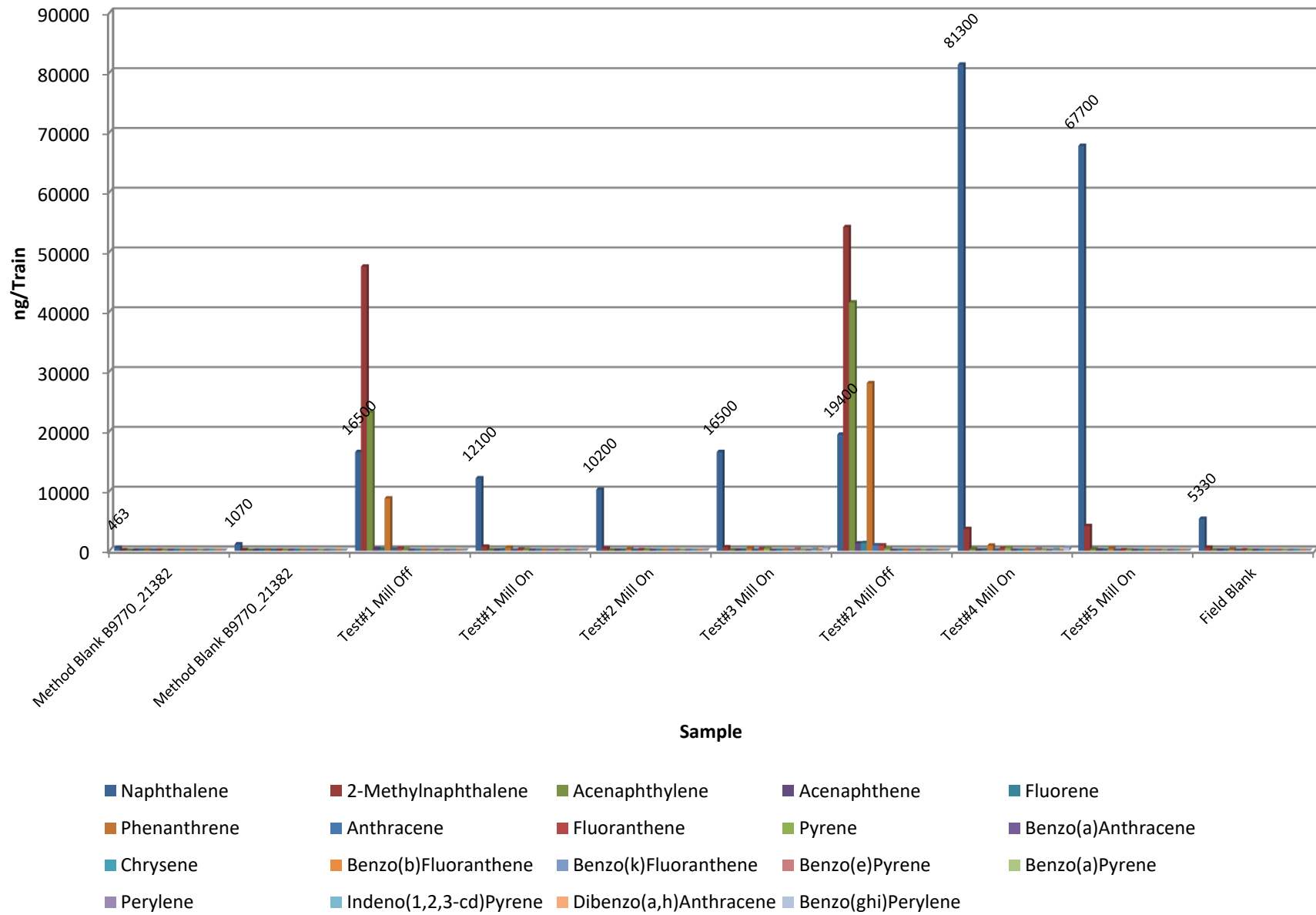
B9770

Project ID: Holly Hill Cement Plant /Main Kiln

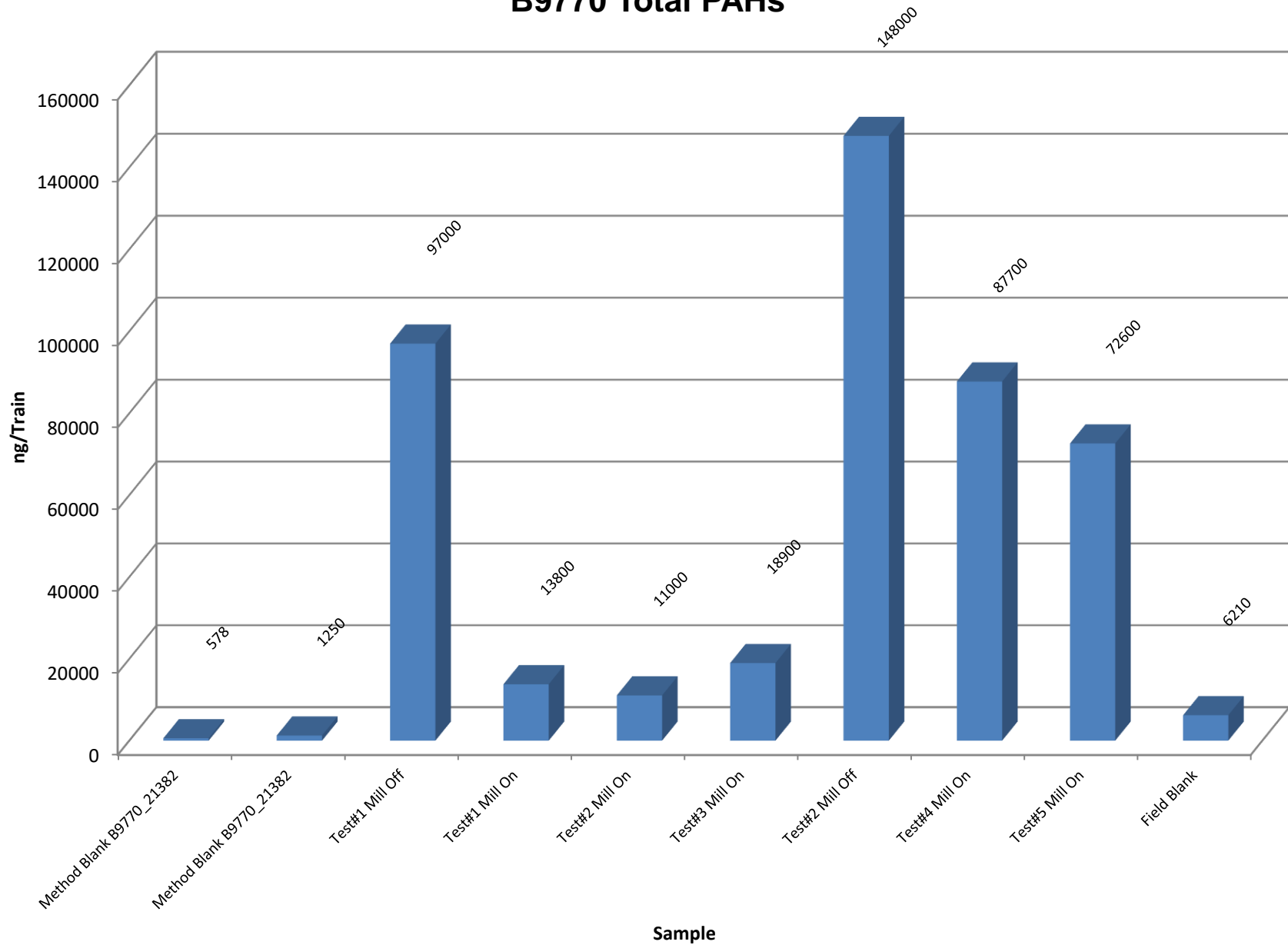
| Standards Summary | | Method AP-CM/GC-HRMS(PAH) | | | | | | | | |
|-----------------------------|-----------------------------|-----------------------------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|-------------|
| Analyte | Method Blank B9770_21382 | Method Blank B9770_21382 | Test#1 Mill Off | Test#1 Mill On | Test#2 Mill On | Test#3 Mill On | Test#2 Mill Off | Test#4 Mill On | Test#5 Mill On | Field Blank |
| | % Recovery | % Recovery | % Recovery | % Recovery | % Recovery | % Recovery | % Recovery | % Recovery | % Recovery | % Recovery |
| Extraction Standards | | | | | | | | | | |
| 13C6-Naphthalene | 56 | 29.9 | 422 | 112 | 51.3 | 57.2 | 428 | 75.4 | 67.4 | 62.9 |
| 13C6-2-Methylnaphthalene | 59.5 | 22.3 | 93.5 | 77.7 | 51.8 | 42.1 | 109 | 43 | 36.8 | 43.6 |
| 13C6-Acenaphthylene | 60.8 | 25.9 | 69.9 | 107 | 56.1 | 62.1 | 66.8 | 50.3 | 47.9 | 50.8 |
| 13C6-Acenaphthene | 66.9 | 23.5 | 51.4 | 98.9 | 62.5 | 57.6 | 42.7 | 45.6 | 40.8 | 47.8 |
| 13C6-Fluorene | 87.8 | 24.1 | 47.2 | 88.5 | 77 | 48.9 | 51 | 44 | 44.7 | 48.9 |
| 13C6-Phenanthrene | 110 | 24.9 | 51 | 85.8 | 96.9 | 52.4 | 56.5 | 40.2 | 39.5 | 51.9 |
| 13C6-Anthracene | 137 | 33.5 | 46.7 | 101 | 118 | 58.5 | 40.6 | 48.8 | 53.8 | 65.4 |
| 13C6-Fluoranthene | 86.2 | 29.6 | 74.3 | 122 | 94.6 | 74.3 | 69.9 | 68.6 | 72.4 | 64.7 |
| 13C3-Pyrene | 83.3 | 31 | 80.9 | 135 | 91.5 | 80.8 | 71.7 | 72.2 | 73.9 | 70.4 |
| 13C6-Benzo(a)Anthracene | 75.8 | 18.9 | 53.3 | 83 | 87.9 | 48.9 | 39.3 | 46.1 | 45.3 | 48.9 |
| 13C6-Chrysene | 62.6 | 15.4 | 43 | 69.7 | 77.9 | 39.8 | 34 | 37.4 | 38 | 38.9 |
| 13C6-Benzo(b)Fluoranthene | 104 | 36.7 | 108 | 176 | 119 | 93.7 | 84 | 94.1 | 93.2 | 88.4 |
| 13C6-Benzo(k)Fluoranthene | 88.3 | 29.6 | 84.1 | 140 | 95 | 69.8 | 68.5 | 75 | 77.5 | 70.3 |
| 13C4-Benzo(e)Pyrene | 87.9 | 29.9 | 84.9 | 156 | 95.8 | 83.8 | 75.5 | 77.5 | 79.8 | 71.3 |
| 13C4-Benzo(a)Pyrene | 43.4 | 32.4 | 87.2 | 136 | 91.2 | 77.8 | 74.1 | 74.2 | 77.4 | 79.5 |
| d12-Perylene | 4.85 | 24.5 | 69.3 | 110 | 43.3 | 67.8 | 54.9 | 59.7 | 65.2 | 59.6 |
| 13C6-Indeno(1,2,3-cd)Pyrene | 110 | 29.2 | 73 | 129 | 129 | 67.1 | 60.6 | 78.5 | 70.5 | 76.2 |
| 13C6-Dibenzo(ah)Anthracene | 99.6 | 25.5 | 55.3 | 106 | 98.4 | 52.6 | 44.4 | 50.8 | 50.8 | 66.9 |
| 13C12-Benzo(ghi)Perylene | 84.9 | 23.4 | 66.5 | 109 | 106 | 65.4 | 49 | 57.4 | 53.9 | 55.4 |
| Sampling Standards | | | | | | | | | | |
| d10-Fluorene | 103 | 97.8 | 88.2 | 88.8 | 91 | 96.4 | 79.7 | 82 | 82.8 | 93.8 |
| d14-Terphenyl | 107 | 65.5 | 59.4 | 56.2 | 88.2 | 55.1 | 49.5 | 54.1 | 59.5 | 61.1 |
| Filter Standard | | | | | | | | | | |
| d10-Anthracene | 126 | 30.7 | 41.7 | 93 | 98.3 | 50.3 | 37.5 | 41.6 | 48.2 | 56.5 |


(<x) = <RL

B9770 PAHs





B9770 Total PAHs





| Sample ID: | | Test#1 Mill Off | | Method AP-CM/GC-HRMS(PAH) | | | |
|---|-----------------------------------|-----------------|------------|--|-------------------------|-----------------|-----------|
| Client Data | | Sample Data | | Laboratory Data | | | |
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | 02-Aug-24 |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1.00 Train | Sample ID: | B9770_21382_PAH_001-D10 | Date Extracted: | 15-Aug-24 |
| Date Collected: | 30-Jul-24 | | | QC Batch No.: | 21382 | Date Analyzed: | 20-Sep-24 |
| Analyte | Conc. | DL | Qual. | Extraction Standards (ES) | Recovery | Qual. | |
| | ng/Train | ng/Train | | | % | | |
| Naphthalene | 16500 | | E S | ¹³ C ₆ -Naphthalene | 422 | V | |
| 2-Methylnaphthalene | 47500 | | E S | ¹³ C ₆ -2-Methylnaphthalene | 93.5 | | |
| Acenaphthylene | 23100 | | E | ¹³ C ₆ -Acenaphthylene | 69.9 | | |
| Acenaphthene | 277 | | | ¹³ C ₆ -Acenaphthene | 51.4 | | |
| Fluorene | 166 | | | ¹³ C ₆ -Fluorene | 47.2 | | |
| Phenanthrene | 8730 | | E | ¹³ C ₆ -Phenanthrene | 51 | | |
| Anthracene | 161 | | | ¹³ C ₆ -Anthracene | 46.7 | | |
| Fluoranthene | 326 | | | ¹³ C ₆ -Fluoranthene | 74.3 | | |
| Pyrene | 126 | | B | ¹³ C ₃ -Pyrene | 80.9 | | |
| Benzo(a)Anthracene | 7.99 | | B | ¹³ C ₆ -Benzo(a)Anthracene | 53.3 | | |
| Chrysene | 15.1 | | B | ¹³ C ₆ -Chrysene | 43 | | |
| Benzo(b)Fluoranthene | 12.9 | | B | ¹³ C ₆ -Benzo(b)Fluoranthene | 108 | | |
| Benzo(k)Fluoranthene | 4.92 | | B | ¹³ C ₆ -Benzo(k)Fluoranthene | 84.1 | | |
| Benzo(e)Pyrene | 12.7 | | B | ¹³ C ₄ -Benzo(e)Pyrene | 84.9 | | |
| Benzo(a)Pyrene | 5.01 | | B | ¹³ C ₄ -Benzo(a)Pyrene | 87.2 | | |
| Perylene | ND | 6.27 | | d ₁₂ -Perylene | 69.3 | | |
| Indeno(1,2,3-cd)Pyrene | 8.64 | | B | ¹³ C ₆ -Indeno(1,2,3-cd)Pyrene | 73 | | |
| Dibenzo(a,h)Anthracene | ND | 9.41 | | ¹³ C ₆ -Dibenzo(ah)Anthracene | 55.3 | | |
| Benzo(ghi)Perylene | 26.7 | | | ¹³ C ₁₂ -Benzo(ghi)Perylene | 66.5 | | |
| <div><div>5500 Business Drive Wilmington, NC 28405, USA Tel: 910 794-1613 www.us.sgs.com</div></div> | | | | Filter Standard (FS) | | | |
| | | | | d ₁₀ -Anthracene | 41.7 | V | |
| | | | | | | | |
| | | | | Sampling Standards (SS) | | | |
| | | | | d ₁₀ -Fluorene | 88.2 | | |
| d ₁₄ -Terphenyl | 59.4 | V | | | | | |


| Sample ID: | | Test#1 Mill On | | Method AP-CM/GC-HRMS(PAH) | | | |
|---|-----------------------------------|----------------|------------|--|-------------------------|-----------------|-----------|
| Client Data | | Sample Data | | Laboratory Data | | | |
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | 02-Aug-24 |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1.00 Train | Sample ID: | B9770_21382_PAH_002-D10 | Date Extracted: | 15-Aug-24 |
| Date Collected: | 30-Jul-24 | | | QC Batch No.: | 21382 | Date Analyzed: | 20-Sep-24 |
| Analyte | Conc. | DL | Qual. | Extraction Standards (ES) | Recovery | Qual. | |
| | ng/Train | ng/Train | | | % | | |
| Naphthalene | 12100 | | E | ¹³ C ₆ -Naphthalene | 112 | | |
| 2-Methylnaphthalene | 658 | | B E | ¹³ C ₆ -2-Methylnaphthalene | 77.7 | | |
| Acenaphthylene | 39.8 | | | ¹³ C ₆ -Acenaphthylene | 107 | | |
| Acenaphthene | 31.3 | | B | ¹³ C ₆ -Acenaphthene | 98.9 | | |
| Fluorene | 64.8 | | B | ¹³ C ₆ -Fluorene | 88.5 | | |
| Phenanthrene | 504 | | E | ¹³ C ₆ -Phenanthrene | 85.8 | | |
| Anthracene | 22.2 | | B | ¹³ C ₆ -Anthracene | 101 | | |
| Fluoranthene | 157 | | | ¹³ C ₆ -Fluoranthene | 122 | | |
| Pyrene | 92.9 | | B | ¹³ C ₃ -Pyrene | 135 | V | |
| Benzo(a)Anthracene | 11 | | B | ¹³ C ₆ -Benzo(a)Anthracene | 83 | | |
| Chrysene | 14.8 | | B | ¹³ C ₆ -Chrysene | 69.7 | | |
| Benzo(b)Fluoranthene | 9.44 | | B | ¹³ C ₆ -Benzo(b)Fluoranthene | 176 | V | |
| Benzo(k)Fluoranthene | 5.94 | | B | ¹³ C ₆ -Benzo(k)Fluoranthene | 140 | V | |
| Benzo(e)Pyrene | 14.2 | | B | ¹³ C ₄ -Benzo(e)Pyrene | 156 | V | |
| Benzo(a)Pyrene | 6.3 | | B | ¹³ C ₄ -Benzo(a)Pyrene | 136 | V | |
| Perylene | ND | 5.9 | | d ₁₂ -Perylene | 110 | | |
| Indeno(1,2,3-cd)Pyrene | 10.2 | | B | ¹³ C ₆ -Indeno(1,2,3-cd)Pyrene | 129 | | |
| Dibenzo(a,h)Anthracene | ND | 9.97 | | ¹³ C ₆ -Dibenzo(ah)Anthracene | 106 | | |
| Benzo(ghi)Perylene | 30.5 | | | ¹³ C ₁₂ -Benzo(ghi)Perylene | 109 | | |
| <div><div><div>SGS</div></div><div>5500 Business Drive Wilmington, NC 28405, USA Tel: 910 794-1613 www.us.sgs.com</div></div> | | | | Filter Standard (FS) | | | |
| | | | | d ₁₀ -Anthracene | 93 | | |
| | | | | | | | |
| | | | | Sampling Standards (SS) | | | |
| | | | | d ₁₀ -Fluorene | 88.8 | | |
| | | | | d ₁₄ -Terphenyl | 56.2 | V | |

| Sample ID: | | Test#2 Mill On | | Method AP-CM/GC-HRMS(PAH) | | |
|--|----------|---------------------------|-------|--|---------------------------|-------|
| Client Data | | Sample Data | | Laboratory Data | | |
| Name: Mostardi-Platt | | Matrix: Air | | Project No.: B9770 | Date Received: 02-Aug-24 | |
| Project ID: Holly Hill Cement Plant/Main Kiln | | Weight/Volume: 1.00 Train | | Sample ID: B9770_21382_PAH_003-AR1-D10 | Date Extracted: 15-Aug-24 | |
| Date Collected: 31-Jul-24 | | | | QC Batch No.: 21382 | Date Analyzed: 25-Sep-24 | |
| Analyte | Conc. | DL | Qual. | Extraction Standards (ES) | Recovery | Qual. |
| | ng/Train | ng/Train | | | % | |
| Naphthalene | 10200 | | E | ¹³ C ₆ -Naphthalene | 51.3 | |
| 2-Methylnaphthalene | 350 | | B | ¹³ C ₆ -2-Methylnaphthalene | 51.8 | |
| Acenaphthylene | 24 | | | ¹³ C ₆ -Acenaphthylene | 56.1 | |
| Acenaphthene | 16 | | B | ¹³ C ₆ -Acenaphthene | 62.5 | |
| Fluorene | 19.6 | | B | ¹³ C ₆ -Fluorene | 77 | |
| Phenanthrene | 235 | | B | ¹³ C ₆ -Phenanthrene | 96.9 | |
| Anthracene | 13.5 | | | ¹³ C ₆ -Anthracene | 118 | |
| Fluoranthene | 73.6 | | B | ¹³ C ₆ -Fluoranthene | 94.6 | |
| Pyrene | 50.8 | | B | ¹³ C ₃ -Pyrene | 91.5 | |
| Benzo(a)Anthracene | 2.3 | | J B | ¹³ C ₆ -Benzo(a)Anthracene | 87.9 | |
| Chrysene | 6.93 | | B | ¹³ C ₆ -Chrysene | 77.9 | |
| Benzo(b)Fluoranthene | 5.82 | | B | ¹³ C ₆ -Benzo(b)Fluoranthene | 119 | |
| Benzo(k)Fluoranthene | 2.67 | | J B | ¹³ C ₆ -Benzo(k)Fluoranthene | 95 | |
| Benzo(e)Pyrene | 10.3 | | | ¹³ C ₄ -Benzo(e)Pyrene | 95.8 | |
| Benzo(a)Pyrene | 2.98 | | J B | ¹³ C ₄ -Benzo(a)Pyrene | 91.2 | |
| Perylene | ND | 4.32 | | d ₁₂ -Perylene | 43.3 | |
| Indeno(1,2,3-cd)Pyrene | 5.64 | | B | ¹³ C ₆ -Indeno(1,2,3-cd)Pyrene | 129 | |
| Dibenzo(a,h)Anthracene | ND | 3.95 | | ¹³ C ₆ -Dibenzo(ah)Anthracene | 98.4 | |
| Benzo(ghi)Perylene | 25.2 | | | ¹³ C ₁₂ -Benzo(ghi)Perylene | 106 | |
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| | | | | d ₁₀ -Anthracene | 98.3 | |
| | | | | | | |
| | | | | Sampling Standards (SS) | | |
| | | | | d ₁₀ -Fluorene | 91 | |
| | | | | d ₁₄ -Terphenyl | 88.2 | |


| Sample ID: | | Test#3 Mill On | | Method AP-CM/GC-HRMS(PAH) | | |
|--|----------|---------------------------|-------|--|---------------------------|-------|
| Client Data | | Sample Data | | Laboratory Data | | |
| Name: Mostardi-Platt | | Matrix: Air | | Project No.: B9770 | Date Received: 02-Aug-24 | |
| Project ID: Holly Hill Cement Plant/Main Kiln | | Weight/Volume: 1.00 Train | | Sample ID: B9770_21382_PAH_004-D10 | Date Extracted: 15-Aug-24 | |
| Date Collected: 31-Jul-24 | | | | QC Batch No.: 21382 | Date Analyzed: 20-Sep-24 | |
| Analyte | Conc. | DL | Qual. | Extraction Standards (ES) | Recovery | Qual. |
| | ng/Train | ng/Train | | | % | |
| Naphthalene | 16500 | | E | ¹³ C ₆ -Naphthalene | 57.2 | |
| 2-Methylnaphthalene | 574 | | B E | ¹³ C ₆ -2-Methylnaphthalene | 42.1 | |
| Acenaphthylene | 41.2 | | | ¹³ C ₆ -Acenaphthylene | 62.1 | |
| Acenaphthene | 24.6 | | B | ¹³ C ₆ -Acenaphthene | 57.6 | |
| Fluorene | 35.3 | | B | ¹³ C ₆ -Fluorene | 48.9 | |
| Phenanthrene | 405 | | E | ¹³ C ₆ -Phenanthrene | 52.4 | |
| Anthracene | 16 | | B | ¹³ C ₆ -Anthracene | 58.5 | |
| Fluoranthene | 258 | | | ¹³ C ₆ -Fluoranthene | 74.3 | |
| Pyrene | 348 | | | ¹³ C ₃ -Pyrene | 80.8 | |
| Benzo(a)Anthracene | 5.68 | | B | ¹³ C ₆ -Benzo(a)Anthracene | 48.9 | |
| Chrysene | 14.7 | | B | ¹³ C ₆ -Chrysene | 39.8 | |
| Benzo(b)Fluoranthene | 26.9 | | | ¹³ C ₆ -Benzo(b)Fluoranthene | 93.7 | |
| Benzo(k)Fluoranthene | 6.43 | | B | ¹³ C ₆ -Benzo(k)Fluoranthene | 69.8 | |
| Benzo(e)Pyrene | 124 | | | ¹³ C ₄ -Benzo(e)Pyrene | 83.8 | |
| Benzo(a)Pyrene | 23.1 | | | ¹³ C ₄ -Benzo(a)Pyrene | 77.8 | |
| Perylene | ND | 7.6 | | d ₁₂ -Perylene | 67.8 | |
| Indeno(1,2,3-cd)Pyrene | 85.4 | | | ¹³ C ₆ -Indeno(1,2,3-cd)Pyrene | 67.1 | |
| Dibenzo(a,h)Anthracene | ND | 8.44 | | ¹³ C ₆ -Dibenzo(ah)Anthracene | 52.6 | |
| Benzo(ghi)Perylene | 459 | | E | ¹³ C ₁₂ -Benzo(ghi)Perylene | 65.4 | |
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| | | | | d ₁₀ -Anthracene | 50.3 | V |
| | | | | | | |
| | | | | Sampling Standards (SS) | | |
| | | | | d ₁₀ -Fluorene | 96.4 | |
| | | | | d ₁₄ -Terphenyl | 55.1 | V |

| Sample ID: | | Test#2 Mill Off | | Method AP-CM/GC-HRMS(PAH) | | |
|--|----------|---------------------------|-------|--|---------------------------|-------|
| Client Data | | Sample Data | | Laboratory Data | | |
| Name: Mostardi-Platt | | Matrix: Air | | Project No.: B9770 | Date Received: 02-Aug-24 | |
| Project ID: Holly Hill Cement Plant/Main Kiln | | Weight/Volume: 1.00 Train | | Sample ID: B9770_21382_PAH_005-D10 | Date Extracted: 15-Aug-24 | |
| Date Collected: 01-Aug-24 | | | | QC Batch No.: 21382 | Date Analyzed: 20-Sep-24 | |
| Analyte | Conc. | DL | Qual. | Extraction Standards (ES) | Recovery | Qual. |
| | ng/Train | ng/Train | | | % | |
| Naphthalene | 19400 | | E S | ¹³ C ₆ -Naphthalene | 428 | V |
| 2-Methylnaphthalene | 54100 | | E S | ¹³ C ₆ -2-Methylnaphthalene | 109 | |
| Acenaphthylene | 41500 | | E S | ¹³ C ₆ -Acenaphthylene | 66.8 | |
| Acenaphthene | 1220 | | E | ¹³ C ₆ -Acenaphthene | 42.7 | |
| Fluorene | 1280 | | E | ¹³ C ₆ -Fluorene | 51 | |
| Phenanthrene | 28000 | | E S | ¹³ C ₆ -Phenanthrene | 56.5 | |
| Anthracene | 897 | | E | ¹³ C ₆ -Anthracene | 40.6 | |
| Fluoranthene | 884 | | E | ¹³ C ₆ -Fluoranthene | 69.9 | |
| Pyrene | 323 | | | ¹³ C ₃ -Pyrene | 71.7 | |
| Benzo(a)Anthracene | 5.72 | | B | ¹³ C ₆ -Benzo(a)Anthracene | 39.3 | |
| Chrysene | 12 | | B | ¹³ C ₆ -Chrysene | 34 | |
| Benzo(b)Fluoranthene | 16.9 | | | ¹³ C ₆ -Benzo(b)Fluoranthene | 84 | |
| Benzo(k)Fluoranthene | ND | 4.29 | | ¹³ C ₆ -Benzo(k)Fluoranthene | 68.5 | |
| Benzo(e)Pyrene | 8.67 | | B | ¹³ C ₄ -Benzo(e)Pyrene | 75.5 | |
| Benzo(a)Pyrene | ND | 6.65 | | ¹³ C ₄ -Benzo(a)Pyrene | 74.1 | |
| Perylene | ND | 8.67 | | d ₁₂ -Perylene | 54.9 | |
| Indeno(1,2,3-cd)Pyrene | ND | 12.1 | | ¹³ C ₆ -Indeno(1,2,3-cd)Pyrene | 60.6 | |
| Dibenzo(a,h)Anthracene | ND | 9.64 | | ¹³ C ₆ -Dibenzo(ah)Anthracene | 44.4 | |
| Benzo(ghi)Perylene | 12.1 | | | ¹³ C ₁₂ -Benzo(ghi)Perylene | 49 | |
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| | | | | d ₁₀ -Anthracene | 37.5 | V |
| | | | | | | |
| | | | | Sampling Standards (SS) | | |
| | | | | d ₁₀ -Fluorene | 79.7 | |
| | | | | d ₁₄ -Terphenyl | 49.5 | V |

| Sample ID: | | Test#4 Mill On | | Method AP-CM/GC-HRMS(PAH) | | |
|--|----------|---------------------------|-------|--|---------------------------|-------|
| Client Data | | Sample Data | | Laboratory Data | | |
| Name: Mostardi-Platt | | Matrix: Air | | Project No.: B9770 | Date Received: 02-Aug-24 | |
| Project ID: Holly Hill Cement Plant/Main Kiln | | Weight/Volume: 1.00 Train | | Sample ID: B9770_21382_PAH_006-D10 | Date Extracted: 15-Aug-24 | |
| Date Collected: 01-Aug-24 | | | | QC Batch No.: 21382 | Date Analyzed: 20-Sep-24 | |
| Analyte | Conc. | DL | Qual. | Extraction Standards (ES) | Recovery | Qual. |
| | ng/Train | ng/Train | | | % | |
| Naphthalene | 81300 | | E S | ¹³ C ₆ -Naphthalene | 75.4 | |
| 2-Methylnaphthalene | 3620 | | E | ¹³ C ₆ -2-Methylnaphthalene | 43 | |
| Acenaphthylene | 253 | | | ¹³ C ₆ -Acenaphthylene | 50.3 | |
| Acenaphthene | 37.3 | | B | ¹³ C ₆ -Acenaphthene | 45.6 | |
| Fluorene | 53.1 | | B | ¹³ C ₆ -Fluorene | 44 | |
| Phenanthrene | 852 | | E | ¹³ C ₆ -Phenanthrene | 40.2 | |
| Anthracene | 36.7 | | | ¹³ C ₆ -Anthracene | 48.8 | |
| Fluoranthene | 327 | | | ¹³ C ₆ -Fluoranthene | 68.6 | |
| Pyrene | 441 | | E | ¹³ C ₃ -Pyrene | 72.2 | |
| Benzo(a)Anthracene | 8.4 | | B | ¹³ C ₆ -Benzo(a)Anthracene | 46.1 | |
| Chrysene | 21.1 | | | ¹³ C ₆ -Chrysene | 37.4 | |
| Benzo(b)Fluoranthene | 28 | | | ¹³ C ₆ -Benzo(b)Fluoranthene | 94.1 | |
| Benzo(k)Fluoranthene | 9.06 | | B | ¹³ C ₆ -Benzo(k)Fluoranthene | 75 | |
| Benzo(e)Pyrene | 135 | | | ¹³ C ₄ -Benzo(e)Pyrene | 77.5 | |
| Benzo(a)Pyrene | 41.9 | | | ¹³ C ₄ -Benzo(a)Pyrene | 74.2 | |
| Perylene | ND | 7.06 | | d ₁₂ -Perylene | 59.7 | |
| Indeno(1,2,3-cd)Pyrene | 78.4 | | | ¹³ C ₆ -Indeno(1,2,3-cd)Pyrene | 78.5 | |
| Dibenzo(a,h)Anthracene | ND | 17.8 | | ¹³ C ₆ -Dibenzo(ah)Anthracene | 50.8 | |
| Benzo(ghi)Perylene | 494 | | E | ¹³ C ₁₂ -Benzo(ghi)Perylene | 57.4 | |
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| | | | | d ₁₀ -Anthracene | 41.6 | V |
| | | | | | | |
| | | | | Sampling Standards (SS) | | |
| | | | | d ₁₀ -Fluorene | 82 | |
| | | | | d ₁₄ -Terphenyl | 54.1 | V |

| Sample ID: | | Test#5 Mill On | | Method AP-CM/GC-HRMS(PAH) | | | |
|---|-----------------------------------|----------------|------------|--|-------------------------|-----------------|-----------|
| Client Data | | Sample Data | | Laboratory Data | | | |
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | 02-Aug-24 |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1.00 Train | Sample ID: | B9770_21382_PAH_007-D10 | Date Extracted: | 15-Aug-24 |
| Date Collected: | 01-Aug-24 | | | QC Batch No.: | 21382 | Date Analyzed: | 20-Sep-24 |
| Analyte | Conc. | DL | Qual. | Extraction Standards (ES) | Recovery | Qual. | |
| | ng/Train | ng/Train | | | % | | |
| Naphthalene | 67700 | | E S | ¹³ C ₆ -Naphthalene | 67.4 | | |
| 2-Methylnaphthalene | 4120 | | E | ¹³ C ₆ -2-Methylnaphthalene | 36.8 | | |
| Acenaphthylene | 233 | | | ¹³ C ₆ -Acenaphthylene | 47.9 | | |
| Acenaphthene | 41.9 | | B | ¹³ C ₆ -Acenaphthene | 40.8 | | |
| Fluorene | 37.7 | | B | ¹³ C ₆ -Fluorene | 44.7 | | |
| Phenanthrene | 356 | | | ¹³ C ₆ -Phenanthrene | 39.5 | | |
| Anthracene | 16.6 | | B | ¹³ C ₆ -Anthracene | 53.8 | | |
| Fluoranthene | 57.2 | | B | ¹³ C ₆ -Fluoranthene | 72.4 | | |
| Pyrene | 39.5 | | B | ¹³ C ₃ -Pyrene | 73.9 | | |
| Benzo(a)Anthracene | ND | 2.59 | | ¹³ C ₆ -Benzo(a)Anthracene | 45.3 | | |
| Chrysene | 4.09 | | B | ¹³ C ₆ -Chrysene | 38 | | |
| Benzo(b)Fluoranthene | ND | 3.04 | | ¹³ C ₆ -Benzo(b)Fluoranthene | 93.2 | | |
| Benzo(k)Fluoranthene | ND | 3.4 | | ¹³ C ₆ -Benzo(k)Fluoranthene | 77.5 | | |
| Benzo(e)Pyrene | ND | 3.1 | | ¹³ C ₄ -Benzo(e)Pyrene | 79.8 | | |
| Benzo(a)Pyrene | ND | 4.15 | | ¹³ C ₄ -Benzo(a)Pyrene | 77.4 | | |
| Perylene | ND | 5.64 | | d ₁₂ -Perylene | 65.2 | | |
| Indeno(1,2,3-cd)Pyrene | ND | 11.4 | | ¹³ C ₆ -Indeno(1,2,3-cd)Pyrene | 70.5 | | |
| Dibenzo(a,h)Anthracene | ND | 12.3 | | ¹³ C ₆ -Dibenzo(ah)Anthracene | 50.8 | | |
| Benzo(ghi)Perylene | ND | 7.25 | | ¹³ C ₁₂ -Benzo(ghi)Perylene | 53.9 | | |
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| | | | | d ₁₀ -Anthracene | 48.2 | V | |
| | | | | | | | |
| | | | | Sampling Standards (SS) | | | |
| | | | | d ₁₀ -Fluorene | 82.8 | | |
| d ₁₄ -Terphenyl | 59.5 | V | | | | | |

| Sample ID: | | Field Blank | | Method AP-CM/GC-HRMS(PAH) | | | |
|--|-----------------------------------|----------------|------------|--|---------------------|-----------------|-----------|
| Client Data | | Sample Data | | Laboratory Data | | | |
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | 02-Aug-24 |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1.00 Train | Sample ID: | B9770_21382_PAH_008 | Date Extracted: | 15-Aug-24 |
| Date Collected: | 01-Aug-24 | | | QC Batch No.: | 21382 | Date Analyzed: | 19-Sep-24 |
| Analyte | Conc. | DL | Qual. | Extraction Standards (ES) | Recovery | Qual. | |
| | ng/Train | ng/Train | | | % | | |
| Naphthalene | 5330 | | B E | ¹³ C ₆ -Naphthalene | 62.9 | | |
| 2-Methylnaphthalene | 509 | | B E | ¹³ C ₆ -2-Methylnaphthalene | 43.6 | | |
| Acenaphthylene | 48.4 | | | ¹³ C ₆ -Acenaphthylene | 50.8 | | |
| Acenaphthene | 21.7 | | B | ¹³ C ₆ -Acenaphthene | 47.8 | | |
| Fluorene | 21.7 | | B | ¹³ C ₆ -Fluorene | 48.9 | | |
| Phenanthrene | 202 | | B | ¹³ C ₆ -Phenanthrene | 51.9 | | |
| Anthracene | 4.78 | | B | ¹³ C ₆ -Anthracene | 65.4 | | |
| Fluoranthene | 38.8 | | B | ¹³ C ₆ -Fluoranthene | 64.7 | | |
| Pyrene | 21.8 | | B | ¹³ C ₃ -Pyrene | 70.4 | | |
| Benzo(a)Anthracene | 0.879 | | J B | ¹³ C ₆ -Benzo(a)Anthracene | 48.9 | | |
| Chrysene | 1.95 | | J B | ¹³ C ₆ -Chrysene | 38.9 | | |
| Benzo(b)Fluoranthene | 1.85 | | J B | ¹³ C ₆ -Benzo(b)Fluoranthene | 88.4 | | |
| Benzo(k)Fluoranthene | 0.678 | | J B | ¹³ C ₆ -Benzo(k)Fluoranthene | 70.3 | | |
| Benzo(e)Pyrene | 1.79 | | J B | ¹³ C ₄ -Benzo(e)Pyrene | 71.3 | | |
| Benzo(a)Pyrene | 0.902 | | J B | ¹³ C ₄ -Benzo(a)Pyrene | 79.5 | | |
| Perylene | ND | 0.816 | | d ₁₂ -Perylene | 59.6 | | |
| Indeno(1,2,3-cd)Pyrene | 1.03 | | J B | ¹³ C ₆ -Indeno(1,2,3-cd)Pyrene | 76.2 | | |
| Dibenzo(a,h)Anthracene | ND | 0.856 | | ¹³ C ₆ -Dibenzo(ah)Anthracene | 66.9 | | |
| Benzo(ghi)Perylene | 2.92 | | J B | ¹³ C ₁₂ -Benzo(ghi)Perylene | 55.4 | | |
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| | | | | d ₁₀ -Anthracene | 56.5 | V | |
| | | | | | | | |
| | | | | Sampling Standards (SS) | | | |
| | | | | d ₁₀ -Fluorene | 93.8 | | |
| | | | | d ₁₄ -Terphenyl | 61.1 | V | |

| Sample ID: | | Method Blank B9770_21382 | | Method AP-CM/GC-HRMS(PAH) | | |
|--|----------|---------------------------|-------|--|----------|---------------------------|
| Client Data | | Sample Data | | Laboratory Data | | |
| Name: Mostardi-Platt | | Matrix: Air | | Project No.: B9770 | | Date Received: n/a |
| Project ID: Holly Hill Cement Plant/Main Kiln | | Weight/Volume: 1.00 Train | | Sample ID: MB1_21382_PAH_SDS | | Date Extracted: 15-Aug-24 |
| Date Collected: n/a | | | | QC Batch No.: 21382 | | Date Analyzed: 19-Sep-24 |
| Analyte | Conc. | DL | Qual. | Extraction Standards (ES) | Recovery | Qual. |
| | ng/Train | ng/Train | | | % | |
| Naphthalene | 1070 | | E | ¹³ C ₆ -Naphthalene | 29.9 | V |
| 2-Methylnaphthalene | 80.7 | | | ¹³ C ₆ -2-Methylnaphthalene | 22.3 | V |
| Acenaphthylene | 3.6 | | J | ¹³ C ₆ -Acenaphthylene | 25.9 | V |
| Acenaphthene | 9.63 | | | ¹³ C ₆ -Acenaphthene | 23.5 | V |
| Fluorene | 9.63 | | | ¹³ C ₆ -Fluorene | 24.1 | V |
| Phenanthrene | 31.9 | | | ¹³ C ₆ -Phenanthrene | 24.9 | V |
| Anthracene | 2.41 | | J | ¹³ C ₆ -Anthracene | 33.5 | V |
| Fluoranthene | 10.5 | | | ¹³ C ₆ -Fluoranthene | 29.6 | V |
| Pyrene | 14.6 | | | ¹³ C ₃ -Pyrene | 31 | V |
| Benzo(a)Anthracene | 1.23 | | J | ¹³ C ₆ -Benzo(a)Anthracene | 18.9 | V |
| Chrysene | 2.07 | | J | ¹³ C ₆ -Chrysene | 15.4 | V |
| Benzo(b)Fluoranthene | 1.95 | | J | ¹³ C ₆ -Benzo(b)Fluoranthene | 36.7 | V |
| Benzo(k)Fluoranthene | 1.05 | | J | ¹³ C ₆ -Benzo(k)Fluoranthene | 29.6 | V |
| Benzo(e)Pyrene | 1.52 | | J | ¹³ C ₄ -Benzo(e)Pyrene | 29.9 | V |
| Benzo(a)Pyrene | 0.896 | | J | ¹³ C ₄ -Benzo(a)Pyrene | 32.4 | V |
| Perylene | ND | 0.657 | | d ₁₂ -Perylene | 24.5 | V |
| Indeno(1,2,3-cd)Pyrene | 1.51 | | J | ¹³ C ₆ -Indeno(1,2,3-cd)Pyrene | 29.2 | V |
| Dibenzo(a,h)Anthracene | 1.08 | | J | ¹³ C ₆ -Dibenzo(ah)Anthracene | 25.5 | V |
| Benzo(ghi)Perylene | 1.9 | | J | ¹³ C ₁₂ -Benzo(ghi)Perylene | 23.4 | V |
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| | | | | d ₁₀ -Anthracene | 30.7 | V |
| | | | | | | |
| | | | | Sampling Standards (SS) | | |
| | | | | d ₁₀ -Fluorene | 97.8 | |
| | | | | d ₁₄ -Terphenyl | 65.5 | V |

| Sample ID: | | Method Blank B9770_21382 | | Method AP-CM/GC-HRMS(PAH) | | | |
|---|-----------------------------------|--------------------------|------------|--|-----------------------|-----------------|-----------|
| Client Data | | Sample Data | | Laboratory Data | | | |
| Name: | Mostardi-Platt | Matrix: | Air | Project No.: | B9770 | Date Received: | n/a |
| Project ID: | Holly Hill Cement Plant/Main Kiln | Weight/Volume: | 1.00 Train | Sample ID: | MB1_21382_PAH_SDS-AR1 | Date Extracted: | 15-Aug-24 |
| Date Collected: | n/a | | | QC Batch No.: | 21382 | Date Analyzed: | 25-Sep-24 |
| Analyte | Conc. | DL | Qual. | Extraction Standards (ES) | Recovery | Qual. | |
| | ng/Train | ng/Train | | | % | | |
| Naphthalene | 463 | | E | ¹³ C ₆ -Naphthalene | 56 | | |
| 2-Methylnaphthalene | 42.2 | | | ¹³ C ₆ -2-Methylnaphthalene | 59.5 | | |
| Acenaphthylene | 1.06 | | J | ¹³ C ₆ -Acenaphthylene | 60.8 | | |
| Acenaphthene | 8.66 | | | ¹³ C ₆ -Acenaphthene | 66.9 | | |
| Fluorene | 7.71 | | | ¹³ C ₆ -Fluorene | 87.8 | | |
| Phenanthrene | 25 | | | ¹³ C ₆ -Phenanthrene | 110 | | |
| Anthracene | 1.27 | | J | ¹³ C ₆ -Anthracene | 137 | V | |
| Fluoranthene | 7.84 | | | ¹³ C ₆ -Fluoranthene | 86.2 | | |
| Pyrene | 13.3 | | | ¹³ C ₃ -Pyrene | 83.3 | | |
| Benzo(a)Anthracene | 0.878 | | J | ¹³ C ₆ -Benzo(a)Anthracene | 75.8 | | |
| Chrysene | 1.99 | | J | ¹³ C ₆ -Chrysene | 62.6 | | |
| Benzo(b)Fluoranthene | 1.53 | | J | ¹³ C ₆ -Benzo(b)Fluoranthene | 104 | | |
| Benzo(k)Fluoranthene | 0.487 | | J | ¹³ C ₆ -Benzo(k)Fluoranthene | 88.3 | | |
| Benzo(e)Pyrene | 0.934 | | J | ¹³ C ₄ -Benzo(e)Pyrene | 87.9 | | |
| Benzo(a)Pyrene | 0.429 | | J | ¹³ C ₄ -Benzo(a)Pyrene | 43.4 | | |
| Perylene | ND | 4.36 | | d ₁₂ -Perylene | 4.85 | | |
| Indeno(1,2,3-cd)Pyrene | 0.648 | | J | ¹³ C ₆ -Indeno(1,2,3-cd)Pyrene | 110 | | |
| Dibenzo(a,h)Anthracene | ND | 0.328 | | ¹³ C ₆ -Dibenzo(ah)Anthracene | 99.6 | | |
| Benzo(ghi)Perylene | 0.992 | | J | ¹³ C ₁₂ -Benzo(ghi)Perylene | 84.9 | | |
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| | | | | d ₁₀ -Anthracene | 126 | V | |
| | | | | | | | |
| | | | | Sampling Standards (SS) | | | |
| | | | | d ₁₀ -Fluorene | 103 | | |
| d ₁₄ -Terphenyl | 107 | | | | | | |



Sample Receipt Notification

5500 Business Drive
Wilmington, NC 28405 USA
Tel: 910 794-1613
Toll Free: 866 846-8290
Fax: 910 794-3919

Project Manager: Tamara Burkamper
Receipt Date & Time: 02-Aug-24 at 14:20
AP Project name: B9770
Requested TAT: 15 business days
Projected due date: 23-Aug-24
Matrix: Air - M23
Phone#: 910-794-1613
Email Address: Tamara.Burkamper@sgs.com

Company Contact: Jenna Ghanma
Company: Mostardi-Platt
Project Name & Site: Holly Hill Cement Plant/Main Kiln
Project PO#: M243107
QAAP/Contract #: n/a
Requested Analysis: M1668C, HR-PAH
Phone#: 720-329-7808
Email Address: jghanma@mp-mail.com

Received Temps (°C)

| Client Smp ID | AP Smp ID | Components | Sampling Date | Sampling Time | XAD | Solvent Rinse(s) | Container # | Shipping # |
|-----------------------------|-----------|--|---------------|---------------|------|------------------|-------------|------------|
| Test#1 Mill Off | B9770_001 | Filter #1, Impinger catch and wash, T4572_007, Ace/Tol | 30-Jul-24 | 00:00 | 16.6 | 16.6 | 1 | courier |
| Test#1 Mill On | B9770_002 | Filter #1, Impinger catch and wash, T4572_001, Ace/Tol | 30-Jul-24 | 00:00 | 16.6 | 16.6 | 1 | courier |
| Test#2 Mill On | B9770_003 | Filter #1, Impinger catch and wash, T4572_003, Ace/Tol | 31-Jul-24 | 00:00 | 16.6 | 16.6 | 1 | courier |
| Test#3 Mill On | B9770_004 | Filter #1, Impinger catch and wash, T4572_005, Ace/Tol | 31-Jul-24 | 00:00 | 16.6 | 16.6 | 1 | courier |
| Test#2 Mill Off | B9770_005 | Filter #1, Impinger catch and wash, T4572_006, Ace/Tol | 01-Aug-24 | 00:00 | 16.6 | 16.6 | 1 | courier |
| Test#4 Mill On | B9770_006 | Filter #1, Impinger catch and wash, T4572_009, Ace/Tol | 01-Aug-24 | 00:00 | 16.6 | 16.6 | 1 | courier |
| Test#5 Mill On | B9770_007 | Filter #1, Impinger catch and wash, T4572_002, Ace/Tol | 01-Aug-24 | 00:00 | 16.6 | 16.6 | 1 | courier |
| Field Blank | B9770_008 | Filter #1, Impinger catch and wash, T4572_004, Ace/Tol | 01-Aug-24 | 00:00 | 16.6 | 16.6 | 1 | courier |
| Reagent Blank - HOLD | B9770_009 | DI Blank, Acetone, Toluene | 30-Jul-24 | 00:00 | 16.6 | 16.6 | 1 | courier |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Sample Seals Intact: No **Sample(s) Condition:** Intact

Notes/Comments:

Samples received intact; collection date of Reagent Blank does not match COC.

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.

Received by: Malachi Clark

Logged in by: Malachi Clark



QC'ed by: TB 8/7/2024

All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via:

http://www.sgs.com/terms_and_conditions.htm

SGS North America

| Chain-of-Custody Form | | | | | | |
|--|-------------|--|------------|------------------------|---------------------|-------------|
| Project Number: M243107 | | | | Date Results Required: | | |
| Client: Holcim (US) Inc. | | | | TAT Required: | | |
| Plant/Test Location: Holly Hill Cement Plant/Main Kiln | | | | Project Supervisor: EE | | |
| PO#: | | | | | | |
| Sample Number | Sample Date | Sample Point Identification | # of Conts | Sub Lab | Analysis Required | Volume, mls |
| 001 | 7/30/24 | #1 Mill Off M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 002 | 7/30/24 | #1 Mill Off M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 003 | 7/30/24 | #1 Mill On M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 004 | 7/30/24 | #1 Mill On M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 005 | 7/31/24 | #2 Mill On M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 006 | 7/31/24 | #2 Mill On M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 007 | 7/31/24 | #3 Mill On M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 008 | 7/31/24 | #3 Mill On M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 009 | 8/1/24 | #2 Mill Off M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 010 | 8/1/24 | #2 Mill Off M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 011 | 8/1/24 | #4 Mill On M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 012 | 8/1/24 | #4 Mill On M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 013 | 8/1/24 | #5 Mill On M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 014 | 8/1/24 | #5 Mill On M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |

| | | | | | | |
|--|--------|--|---|--------------------------|---------------------|--|
| | | | | | only | |
| 015 | 8/1/24 | Field Blank M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 016 | 8/1/24 | Field Blank M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 017 | 8/1/24 | Acetone Reagent Blank | 1 | | Hold | |
| 018 | 8/1/24 | Toluene Reagent Blank | 1 | | Hold | |
| Delivered to Lab by: Eric Ehlers Date/Time: 8/2/24 – 10:00  | | Received by: Date/Time:  8/2/24 for Melachi 14:20 Clark | | Processed by: Date/Time: | | |

Laboratory Notes:

16.6°C

B9770 1/1

Burkamper, Tamara (Wilmington)

From: Jenna Ghanma <JGhanma@mp-mail.com>
Sent: Tuesday, August 6, 2024 2:32 PM
To: Eric Ehlers
Cc: Clark, Malachi (Wilmington); Burkamper, Tamara (Wilmington)
Subject: [EXTERNAL] Re: Holly Hill Cement Plant
Attachments: Holly Hill M23 COC.doc

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments.

Here is the revised COC.

To Clarify:

B9770_001 Should be Run 1 Mill Off Sample ID 001 on our chain
B9770_003 is run 1 Mill On 003
B9770_004 is Run 2 Mill On 005
B9770_005 is Run 3 Mill On 007
B9770_002 is Run 2 Mill Off 009
B9770_006 is Run 4 Mill On 011
B9770_007 is Run 5 Mill On 013

I hope this clears things up. Now that I understand what happened you can call me with any questions.

Jenna

Jenna Ghanma

mostardi  platt

jghanma@mp-mail.com

t: 630-993-2685

888 Industrial Drive Elmhurst IL 60126

Environmental Solutions since 1976



From: Eric Ehlers/MPE
To: "Burkamper, Tamara (Wilmington)" <tamara.burkamper@sgs.com>
Cc: Jenna Ghanma/MPE@MPE, "Clark, Malachi (Wilmington)" <Malachi.Clark@sgs.com>
Date: 08/06/2024 01:04 PM
Subject: Re: Holly Hill Cement Plant

Amber Lee Peters

1/2




38770

Chain-of-Custody Form

| Project Number: M243107 | | | | Date Results Required: | | |
|--|-------------|--|------------|------------------------|---------------------|-------------|
| Client: Holcim (US) Inc. | | | | TAT Required: | | |
| Plant/Test Location: Holly Hill Cement Plant/Main Kiln | | | | Project Supervisor: EE | | |
| PO#: | | | | | | |
| Sample Number | Sample Date | Sample Point Identification | # of Conts | Sub Lab | Analysis Required | Volume, mls |
| 001 | 7/30/24 | #1 Mill Off M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 002 | 7/30/24 | #1 Mill Off M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 003 | 7/30/24 | #2 Mill On M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 004 | 7/30/24 | #2 Mill On M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 005 | 7/31/24 | #3 Mill On M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 006 | 7/31/24 | #3 Mill On M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 007 | 7/31/24 | #4 Mill On M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 008 | 7/31/24 | #4 Mill On M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 009 | 8/1/24 | #5 Mill Off M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 010 | 8/1/24 | #5 Mill Off M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 011 | 8/1/24 | #6 Mill Off M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 012 | 8/1/24 | #6 Mill Off M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 013 | 8/1/24 | #7 Mill On M23 Acetone/Toluene Wash, Filter, Trap | 3 | | M23 – PCB/PAHs only | |
| 014 | 8/1/24 | #7 Mill On M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |

9770

2/2

| | | | | | | |
|--|--------|--|---|--|--------------------------|--|
| 015 | 8/1/24 | Field Blank M23 Acetone/Toluene Wash, Filter, Trap | 3 | | only M23 – PCB/PAHs only | |
| 016 | 8/1/24 | Field Blank M23 Impinger catch and washes | 1 | | M23 – PCB/PAHs only | |
| 017 | 8/1/24 | Acetone Reagent Blank | 1 | | Hold | |
| 018 | 8/1/24 | Toluene Reagent Blank | 1 | | Hold | |
| Delivered to Lab by: Eric Ehlers Date/Time: 8/2/24 – 10:00  | | Received by:  Date/Time: 8/2/24 14:20 | | Processed by:  Date/Time: | | |

Laboratory Notes:

~~Amended~~
ee TBHm

Client pick-up

4/24

14:20

16.6

39770

Full-RUN



Project Initiation Form

Project Number: B9770

Initiation Date: 07-Aug-24

Client Name: Mostardi-Platt

Sample Matrix: Air - M23

Analysis Method: 1668C

TAT: 15 days

PAH

Project Manager: Tamara

Special Instructions

M1668C, PAH
BCS3 - T4572

Archive Reagent Blank (009)

Follow new M23 guidelines for all methods

Reporting Instructions

M1668C, PAH
Full Report

follow new M23 SOP

Read & understood Special Instructions:

Reviewed Log-in & initiated Project:

Initial & Date: Ww 8/15/24

Initials: tburkamper Date: 07-Aug-2024

Read & understood Special Instructions & Reporting Instructions:

Initial & Date: Ww 9/27/24

| | | | | | | | | | | | |
|-----------------|-------|-------------------------|---|--------------------------|-------------|-----------------------|-----------------|------------------------|--------------|---------------------------------|------------------------|
| Batch# | 21382 | Bal. ID: | 7 | Split: | 1/2 1/4 N/A | Extract Initial/Date: | mm 8/15/24 | Clean-up Initial/Date: | AB 9/16/24 | Transfer Init/Date: | |
| Lab Sample ID | | Extraction Position | | Extraction Weight/Volume | | pH | Cl ⁻ | Observations | Supply Lot # | | |
| | | Solvent: <u>HEX, mm</u> | | g | mL | | | | | | |
| B9770_21382_001 | | 38 | | | | | | | | Toluene | ✓ |
| B9770_21382_002 | | 39 | | | | | | | | MeCHL | ✓ |
| B9770_21382_003 | | 40 | | | | | | | | Florasil | ✓ |
| B9770_21382_004 | | 41 | | | | | | | | Hexane | STC 17-25 |
| B9770_21382_005 | | 42 | | | | | | | | Silica | SPL5-278 |
| B9770_21382_006 | | 43 | | | | | | | | S Nitrate | ✓ |
| B9770_21382_007 | | 44 | | | | | | | | Base Silica | SPL5-281 |
| B9770_21382_008 | | 45 | | | | | | | | HydroMatrix | ✓ |
| BCS3_21382 | | — | | | | | | | | Tetradecane | ✓ |
| MB1_21382 | | 37 | | | | | | | | H ₂ SO ₄ | ✓ |
| | | | | | | | | | | A Silica | SPL5-196-287K |
| | | | | | | | | | | Sodium Sulfate | SPL5 271 |
| | | | | | | | | | | Acetone | ✓ |
| | | | | | | | | | | Additional Cleanup | |
| | | | | | | | | | | Acid Partition Date/Initial: | |
| | | | | | | | | | | Mini-Acid Date/Initial: | |
| | | | | | | | | | | Carbon Column Date/Initial: | ✓ |
| | | | | | | | | | | GPC Date/Initial: | 27 SEP 24 |
| | | | | | | | | | | Bond-Elute Date/Initial: | |
| | | | | | | | | | | Cycle Time | |
| | | | | | | | | | | TOL | Start: 0830 Stop: 0830 |
| | | | | | | | | | | HEX | Start: 1550 Stop: 0755 |
| | | | | | | | | | | DCM | Start: 1645 Stop: 1025 |
| | | | | | | | | | | Chiller Temp. °C: | 12.1 |
| | | | | | | | | | | CCLE Temp. °F: | 161 |
| | | | | | | | | | | TurboVap Temp. °C: | 46 |
| | | | | | | | | | | Soxhlet Reflux Rate ≥ 5/hour | Y N NA |

SGS

Methods:

PCB

PAH

PCDD/F

WHO-2

QUANTICS

USV

DoD PCDD/F

PEST

Air

Batch# 21382

Inter-Department Communication Sheet

Several samples have saturated peaks. Report w/ "S" Flags per PM. DTF 9/26/24
- BCS3s had some native failures Use ICAL quant samples DTP 9/26/24
- Middle has \pm mass below 8k due to heavily saturated samples. DTF 9/26/24

CP

275824

| | | |
|--------|-------|-------------|
| Batch# | 21382 | Balance ID: |
|--------|-------|-------------|

DC_560.6

Batch #

21382

Spiker Initials/Date:

mm 8/15/24

mm 8/15/24

mm 8/15/24

FF 9/9/24

Lab Sample ID

PCB 201A

PCB ES

PCB AS

PCB TS

Amount: 40ul

Amount: 40ul

Amount: 40ul

Amount: 20ul

Amount:

Amount:

Amount:

Observer Initials

Observer Initials

Observer Initials

Observer Initials

Observer Initials

Observer Initials

Observer Initials

B9770_21382_001

B9770_21382_002

B9770_21382_003

B9770_21382_004

B9770_21382_005

B9770_21382_006

B9770_21382_007

B9770_21382_008

BCS3_21382

MB1_21382

66
27 SEP 24

Standard Information

Pipette ID

43785354

43785354

43785354

625771

Spike ID

PCB 201A

PCB ES

PCB AS

PCB TS

SIL #

27-73-4

27-73-1

27-89-2

27-73-3

Concentration

50 ug/L

100 ug/L

100 ug/L

100 ug/L

Expiration Date

1/9/25

1/9/25

5/1/25

1/2/25

Batch #

21382

Spiker Initials/Date:

MM 8/15/24

MM 8/15/24

MM 8/15/24

W 9/11/24

Lab Sample ID

PAH A2

PAH E5

PAH A5

PAH S5

Amount: 80mL

Amount: 80mL

Amount: 80mL

Amount: 80mL

Amount:

Amount:

Amount:

Observer Initials

Observer Initials

Observer Initials

Observer Initials

Observer Initials

Observer Initials

Observer Initials

B9770_21382_001

B9770_21382_002

B9770_21382_003

B9770_21382_004

B9770_21382_005

B9770_21382_006

B9770_21382_007

B9770_21382_008

BCS3_21382

MB1_21382

Standard Information

Pipette ID 43785354

43785354

43785354

43785354

Spike ID

PAH A2

PAH E5

PAH A5

PAH S5

SIL #

27-76-3

27-109-2

27-72-1

27-82-1

Concentration

500 µg/L

500 µg/L

500 µg/L

125 µg/L

Expiration Date

11/6/25

7/3/25

12/6/24

2/13/25

Methods: PCB PAH PCDD/F WHO-2 QUANTICS USV DoD-PCDD/F PEST Extraction Type: CLL SDS TALEX Carbon SPE

Air

Final Volume: 100mL

| Batch# | 21382 | Bal. ID: | Split: 1/2 1/4 <u>N/A</u> | Extract Initial/Date: | <u>N/A</u> | Clean-up Initial/Date: | <u>9/19/24 RB</u> | Transfer Init/Date: | <u>CO 9/23/24</u> |
|---------------------|---------------------|--------------------------|---------------------------|-----------------------|--------------|--------------------------------|-------------------|---------------------|-------------------|
| Lab Sample ID | Extraction Position | Extraction Weight/Volume | pH | Cl ⁻ | Observations | Supply Lot # | | | |
| | Solvent: | g mL | | | | | | | |
| BCS3_21382 | | | | | | Toluene | <u>N/A</u> | | |
| B9770_21382_003-AR1 | | | | | | MeCHL | <u>STL 18-3</u> | | |
| MB1_21382-AR1 | | | | | | Florisil | <u>N/A</u> | | |
| | | | | | | Hexane | <u>STL 18-02</u> | | |
| | | | | | | Silica | <u>SPLS 278</u> | | |
| | | | | | | S Nitrate | <u>N/A</u> | | |
| | | | | | | Base Silica | <u>N/A</u> | | |
| | | | | | | HydroMatrix | <u>N/A</u> | | |
| | | | | | | Tetradecane | <u>N/A</u> | | |
| | | | | | | H ₂ SO ₄ | <u>N/A</u> | | |
| | | | | | | A Silica | <u>N/A</u> | | |
| | | | | | | Sodium Sulfate | <u>SPLS 287B</u> | | |
| | | | | | | Acetone | | | |
| | | | | | | Additional Cleanup | | | |
| | | | | | | Acid Partition Date/Initial: | | | |
| | | | | | | Mini-Acid Date/Initial: | | | |
| | | | | | | Carbon Column Date/Initial: | <u>u</u> | | |
| | | | | | | GPC Date/Initial: | <u>27548 24</u> | | |
| | | | | | | Bond-Elute Date/Initial: | | | |
| | | | | | | Cycle Time | | | |
| | | | | | | TOI | Start: | Stop: | |
| | | | | | | HEX | Start: | Stop: | |
| | | | | | | DCM | Start: | Stop: | |
| | | | | | | Chiller Temp. °C: | CCLE Temp. °F: | TurboVap Temp. °C: | |
| | | | | | | | | <u>50°</u> | |
| | | | | | | Soxhlet Reflux Rate ≥ 5/hour | Y N NA | | |

Archiving
403 9/23/24

SGS

Methods:

PCB
PAH

PCDD/F
WHO-2

QUANTICS
USV

DoD PCDD/F
PEST

Air

Batch# 21382

Inter-Department Communication Sheet

- Pull archive for Sample 3. PAH ESs are gone and AS is gone DTP 9/20/27

CP
27 Sep 27

Batch #

21382

Spiker Initials/Date:

7/20/24

| Lab Sample ID | PAH A ₁ | PAH E ₅ | PAH A ₅ | PAH J ₃ | | | |
|---------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|
| | Amount: 80.2 | Amount: 80.2 | Amount: 80.2 | Amount: 80.2 | Amount: | Amount: | Amount: |
| | Observer Initials | Observer Initials | Observer Initials | Observer Initials | Observer Initials | Observer Initials | Observer Initials |

BCS3_21382

AG

B9770_21382_003-AR1

Archive

AG

MB1_21382-AR1

AG

27/08/24

Standard Information

Pipette ID

Spike ID

SIL #

Concentration

Expiration Date

43785354

PAH J₃

27.82.1

125 P₉/2

2/13/25

7/20/24

SGS Environmental Services — Run Log

Project: B9770_21382_PAH

Instrument: MM6 (AutoSpec-Premier)

MS Experiment: pah

GC Program: pah

| # | Datafile | Vial# | Lab ID | Wt/Vol | Client/Sample ID | Analyst(s) | Checkcode | Acq Date | Acq Time |
|---------------|----------------------|---------------|------------------------------|-----------------|---------------------------------|----------------|--------------------|------------------------|---------------------|
| 2 | 240919V02 | 5 | CS3_240919_PAH_VA | 1.00 | 27-80-3 | DTF | 527-777 | 19-Sep-2024 | 12:18:20 |
| 3 | 240919V03 | 40 | BCS3_21382_PAH_VA | 1.00 | BCS3_21382_PAH_VA NR | DTF | 942-937 | 19-Sep-2024 | 14:00:44 |
| 4 | 240919V04 | 4 | SB_240918_PAH_VA | 1.00 | Isooctane | DTF | 260-477 | 19-Sep-2024 | 14:44:31 |
| 5 | 240919V06 | 41 | MB1_21382_PAH_SDS | 1.00 | Method Blank | DTF | 526-812 | 19-Sep-2024 | 16:17:49 |
| 6 | 240919V14 | 49 | B9770_21382_PAH_008 | 1.00 | Field Blank | DTF | 258-537 | 19-Sep-2024 | 22:31:07 |
| 15 | 240919V15 | 40 | BCS3_21382_PAH_VB | 1.00 | BCS3_21382_PAH_VB | DTF | 848-077 | 19-Sep-2024 | 23:17:46 |
| 16 | 240919V16 | 5 | CS3_240919_PAH_VB | 1.00 | 27-80-3 | DTF | 497-786 | 20-Sep-2024 | 00:08:29 |
| 17 | 240919V17 | 50 | B9770_21382_PAH_001-D10 | 1.00 | Test#1 Mill Off | DTF | 895-251 | 20-Sep-2024 | 00:52:17 |
| 18 | 240919V18 | 51 | B9770_21382_PAH_002-D10 | 1.00 | Test#1 Mill On | DTF | 497-948 | 20-Sep-2024 | 01:38:57 |
| 20 | 240919V20 | 53 | B9770_21382_PAH_004-D10 | 1.00 | Test#3 Mill On | DTF | 460-335 | 20-Sep-2024 | 03:12:16 |
| 21 | 240919V21 | 54 | B9770_21382_PAH_005-D10 | 1.00 | Test#2 Mill Off | DTF | 378-188 | 20-Sep-2024 | 03:59:00 |
| 22 | 240919V22 | 55 | B9770_21382_PAH_006-D10 | 1.00 | Test#4 Mill On | DTF | 758-697 | 20-Sep-2024 | 04:45:45 |
| 23 | 240919V23 | 56 | B9770_21382_PAH_007-D10 | 1.00 | Test#5 Mill On | DTF | 219-876 | 20-Sep-2024 | 05:32:25 |
| 25 | 240919V25 | 40 | BCS3_21382_PAH_VC | 1.00 | BCS3_21382_PAH_VC | DTF | 144-806 | 20-Sep-2024 | 07:05:44 |
| 0 | 240925V01 | 5 | CS3_240925_PAH_VA | 1.00 | 27-80-3 | DTF | 452-725 | 25-Sep-2024 | 10:17:30 |
| 1 | 240925V02 | 4 | SB_240925_PAH_VA | 1.00 | Isooctane | DTF | 453-148 | 25-Sep-2024 | 11:10:05 |
| 2 | 240925V03 | 58 | MB1_21382_PAH_SDS-AR1 | 1.00 | Method Blank | DTF | 311-444 | 25-Sep-2024 | 11:53:50 |
| 3 | 240925V04 | 59 | B9770_21382_PAH_003-AR1-D10 | 1.00 | Test#2 Mill On | DTF | 821-451 | 25-Sep-2024 | 12:40:27 |

REVIEWED

Tyler_Fritz , 9/26/2024, 1:36:13 PM

REVIEWED

Carla_Lyon , 9/27/2024, 2:11:23 PM

Checkcode: 526-812-HCT

| | Stats | PAH Ax | ES/SS |
|-----------------------------|-------|--------|-------|
| Largest +ve RT shift (secs) | | 1.0 | 1.6 |
| Largest -ve RT shift (secs) | | -2.1 | -0.4 |

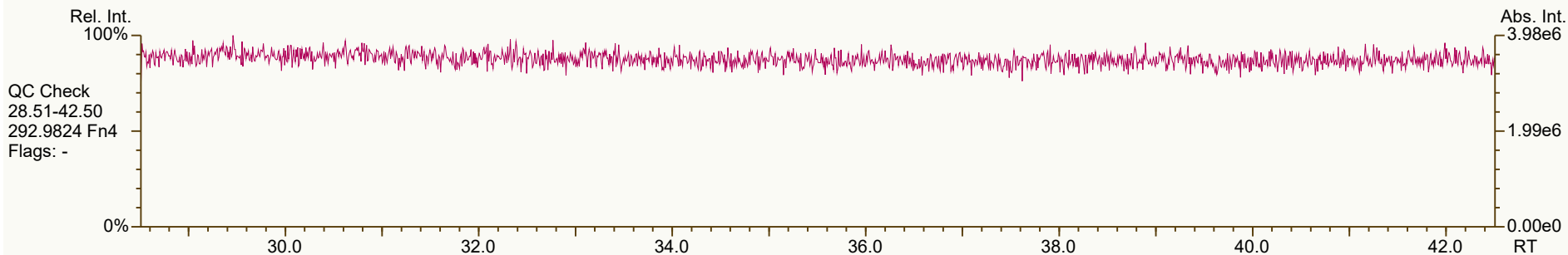
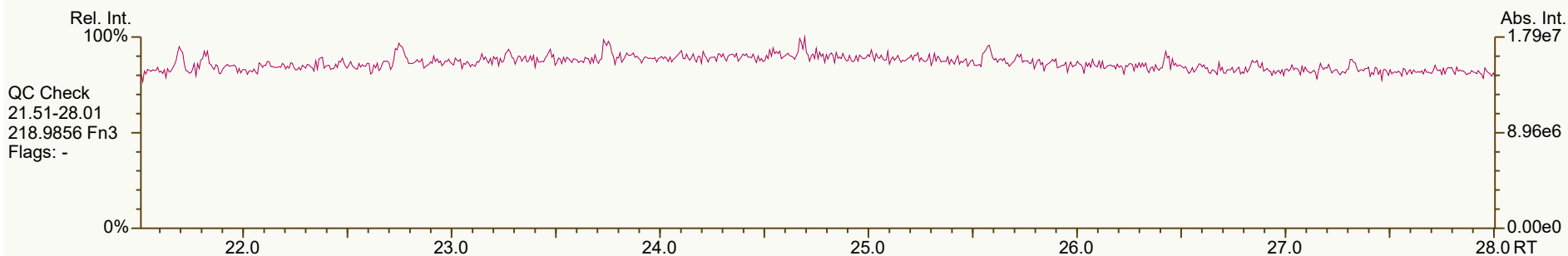
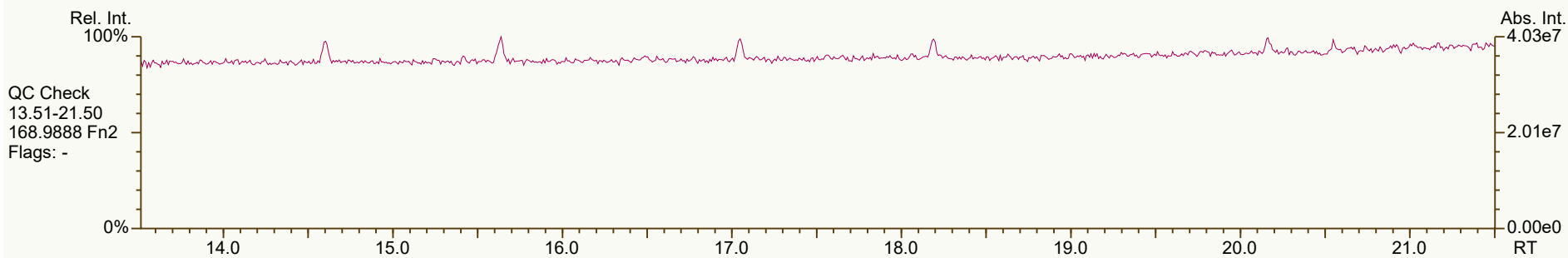
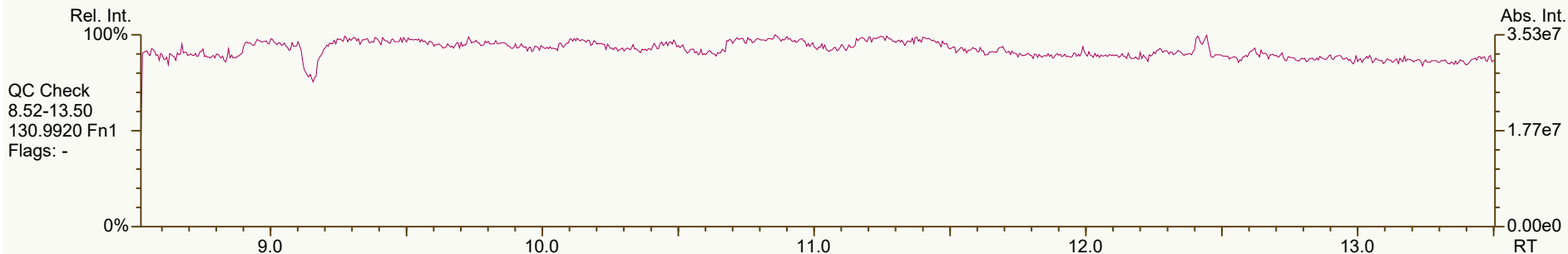
| | Actual | | Pred | Actual | Diff | | Conc | | | | |
|--------------------------|--------|----|--------|--------|------|----------|------|------|----------|----------|---------|
| Name | RT | QC | RRT | RRT | Secs | Response | Ra | RRF | ng/Train | Noise | DL |
| Naphthalene | 10.48 | E | 1.0005 | 1.0005 | 0 | 6.53E+08 | - | 0.99 | 1070 | 9.01E+04 | 0.84100 |
| 2-Methylnaphthalene | 13.04 | | 1.0004 | 1.0004 | 0 | 2.76E+07 | - | 1.01 | 80.7 | 3.07E+04 | 0.41300 |
| Acenaphthylene | 16.00 | J | 1.0000 | 1.0000 | 0 | 1.72E+06 | - | 0.92 | 3.6 | 8.05E+04 | 0.89500 |
| Acenaphthene | 16.57 | | 1.0005 | 1.0005 | 0 | 3.05E+06 | - | 1.01 | 9.63 | 4.02E+04 | 0.64800 |
| Fluorene | 18.16 | | 1.0000 | 1.0005 | +0.5 | 3.76E+06 | - | 1.02 | 9.63 | 2.84E+04 | 0.37200 |
| Phenanthrene | 20.88 | | 1.0004 | 1.0000 | -0.5 | 2.21E+07 | - | 1.00 | 31.9 | 4.13E+04 | 0.30300 |
| Anthracene | 21.02 | J | 1.0000 | 1.0000 | 0 | 1.96E+06 | - | 1.23 | 2.41 | 4.13E+04 | 0.27000 |
| Fluoranthene | 24.01 | | 1.0000 | 1.0000 | 0 | 1.11E+07 | - | 0.92 | 10.5 | 5.46E+04 | 0.26300 |
| Pyrene | 24.59 | | 1.0000 | 1.0000 | 0 | 1.74E+07 | - | 0.98 | 14.6 | 5.46E+04 | 0.24000 |
| Benzo (a) Anthracene | 27.69 | J | 1.0000 | 1.0003 | +0.5 | 6.39E+05 | - | 1.00 | 1.23 | 2.28E+04 | 0.24200 |
| Chrysene | 27.79 | J | 1.0003 | 1.0003 | 0 | 1.20E+06 | - | 1.01 | 2.07 | 2.28E+04 | 0.23900 |
| Benzo (b) Fluoranthene | 31.34 | J | 1.0003 | 1.0000 | -0.6 | 1.16E+06 | - | 0.98 | 1.95 | 2.42E+04 | 0.31000 |
| Benzo (k) Fluoranthene | 31.46 | J | 1.0003 | 1.0003 | 0 | 6.69E+05 | - | 0.92 | 1.05 | 2.42E+04 | 0.35800 |
| Benzo (e) Pyrene | 32.53 | J | 1.0000 | 1.0005 | +1.0 | 8.94E+05 | - | 0.98 | 1.52 | 2.42E+04 | 0.35300 |
| Benzo (a) Pyrene | 32.77 | J | 1.0003 | 1.0003 | 0 | 4.52E+05 | - | 0.98 | 0.896 | 2.42E+04 | 0.47800 |
| Perylene | - | | 1.0039 | 0.0000 | | 0.00E+00 | - | 1.06 | ND | 2.42E+04 | 0.65700 |
| Indeno (1,2,3-cd) Pyrene | 39.06 | J | 1.0002 | 0.9993 | -2.1 | 4.45E+05 | - | 0.92 | 1.51 | 1.92E+04 | 0.97100 |
| Dibenzo (a,h) Anthracene | 39.29 | J | 0.9998 | 1.0000 | +0.5 | 3.13E+05 | - | 0.94 | 1.08 | 1.24E+04 | 0.79200 |
| Benzo (ghi) Perylene | 40.94 | J | 1.0002 | 1.0002 | 0 | 7.39E+05 | - | 0.97 | 1.9 | 1.92E+04 | 0.89000 |

| | | Stats | PAH Ax | ES/SS | Checkcode: 526-812-HCT | | | | |
|-------------------------------|--------------|-------|-------------|---------------|------------------------|----------|----|------|-------|
| Largest +ve RT shift (secs) | | | 1.0 | 1.6 | | | | | |
| Largest -ve RT shift (secs) | | | -2.1 | -0.4 | | | | | |
| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Recv. |
| 13C6-Naphthalene | 10.47 | H V | 0.8106 | 0.8101 | -0.4 | 2.47E+07 | - | 1.35 | 29.9 |
| 13C6-2-Methylnaphthalene | 13.04 | H V | 1.0082 | 1.0086 | +0.3 | 1.36E+07 | - | 0.99 | 22.3 |
| 13C6-Acenaphthylene | 16.00 | H V | 0.9723 | 0.9723 | 0 | 2.07E+07 | - | 1.37 | 25.9 |
| 13C6-Acenaphthene | 16.56 | H V | 1.0060 | 1.0060 | 0 | 1.25E+07 | - | 0.91 | 23.5 |
| 13C6-Fluorene | 18.15 | H V | 1.1025 | 1.1025 | 0 | 1.54E+07 | - | 1.09 | 24.1 |
| 13C6-Phenanthrene | 20.88 | H V | 1.2679 | 1.2684 | +0.5 | 2.77E+07 | - | 1.91 | 24.9 |
| 13C6-Anthracene | 21.02 | H V | 1.2766 | 1.2771 | +0.5 | 2.63E+07 | - | 1.35 | 33.5 |
| 13C6-Fluoranthene | 24.01 | H V | 0.9782 | 0.9782 | 0 | 4.59E+07 | - | 1.23 | 29.6 |
| 13C3-Pyrene | 24.59 | H V | 1.0020 | 1.0019 | -0.1 | 4.83E+07 | - | 1.23 | 31 |
| 13C6-Benzo (a) Anthracene | 27.68 | H V | 1.1278 | 1.1278 | 0 | 2.06E+07 | - | 0.86 | 18.9 |
| 13C6-Chrysene | 27.78 | H V | 1.1321 | 1.1320 | -0.1 | 2.30E+07 | - | 1.19 | 15.4 |
| 13C6-Benzo (b) Fluoranthene | 31.34 | H V | 0.9600 | 0.9602 | +0.4 | 2.42E+07 | - | 1.28 | 36.7 |
| 13C6-Benzo (k) Fluoranthene | 31.45 | H V | 0.9634 | 0.9636 | +0.4 | 2.78E+07 | - | 1.82 | 29.6 |
| 13C4-Benzo (e) Pyrene | 32.51 | H V | 0.9961 | 0.9961 | 0 | 2.41E+07 | - | 1.56 | 29.9 |
| 13C4-Benzo (a) Pyrene | 32.76 | H V | 1.0031 | 1.0036 | +1.0 | 2.05E+07 | - | 1.23 | 32.4 |
| dl2-Perylene | 33.01 | H V | 1.0112 | 1.0114 | +0.4 | 1.42E+07 | - | 1.13 | 24.5 |
| 13C6-Indeno (1,2,3-cd) Pyrene | 39.09 | H V | 1.1967 | 1.1975 | +1.6 | 1.28E+07 | - | 0.85 | 29.2 |
| 13C6-Dibenzo (ah) Anthracene | 39.29 | H V | 1.2035 | 1.2037 | +0.4 | 1.24E+07 | - | 0.94 | 25.5 |
| 13C12-Benzo (ghi) Perylene | 40.94 | H V | 1.2536 | 1.2542 | +1.2 | 1.60E+07 | - | 1.33 | 23.4 |
| AS--Anthracene FS | 20.97 | H V | 1.2733 | 1.2739 | +0.6 | 2.11E+07 | - | 1.17 | 30.7 |
| SS-Fluorene | 18.06 | | 0.9951 | 0.9951 | 0 | 1.51E+07 | - | 1.00 | 97.8 |
| SS-Terphenyl | 24.96 | V | 1.0396 | 1.0396 | 0 | 2.39E+07 | - | 0.79 | 65.5 |
| JS-Methylnaphthalene | 12.93 | | - | - | - | 6.14E+07 | - | - | - |
| JS-Acenaphthene | 16.46 | | - | - | - | 5.85E+07 | - | - | - |
| JS-Pyrene | 24.54 | | - | - | - | 1.26E+08 | - | - | - |
| JS-Benzo (a) Pyrene | 32.64 | | - | - | - | 5.16E+07 | - | - | - |

SGS ID: MB1_21382_PAH_SDS
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 41

Acq: 19-Sep-2024 16:17:49
User: DTF Datafile: 240919V06



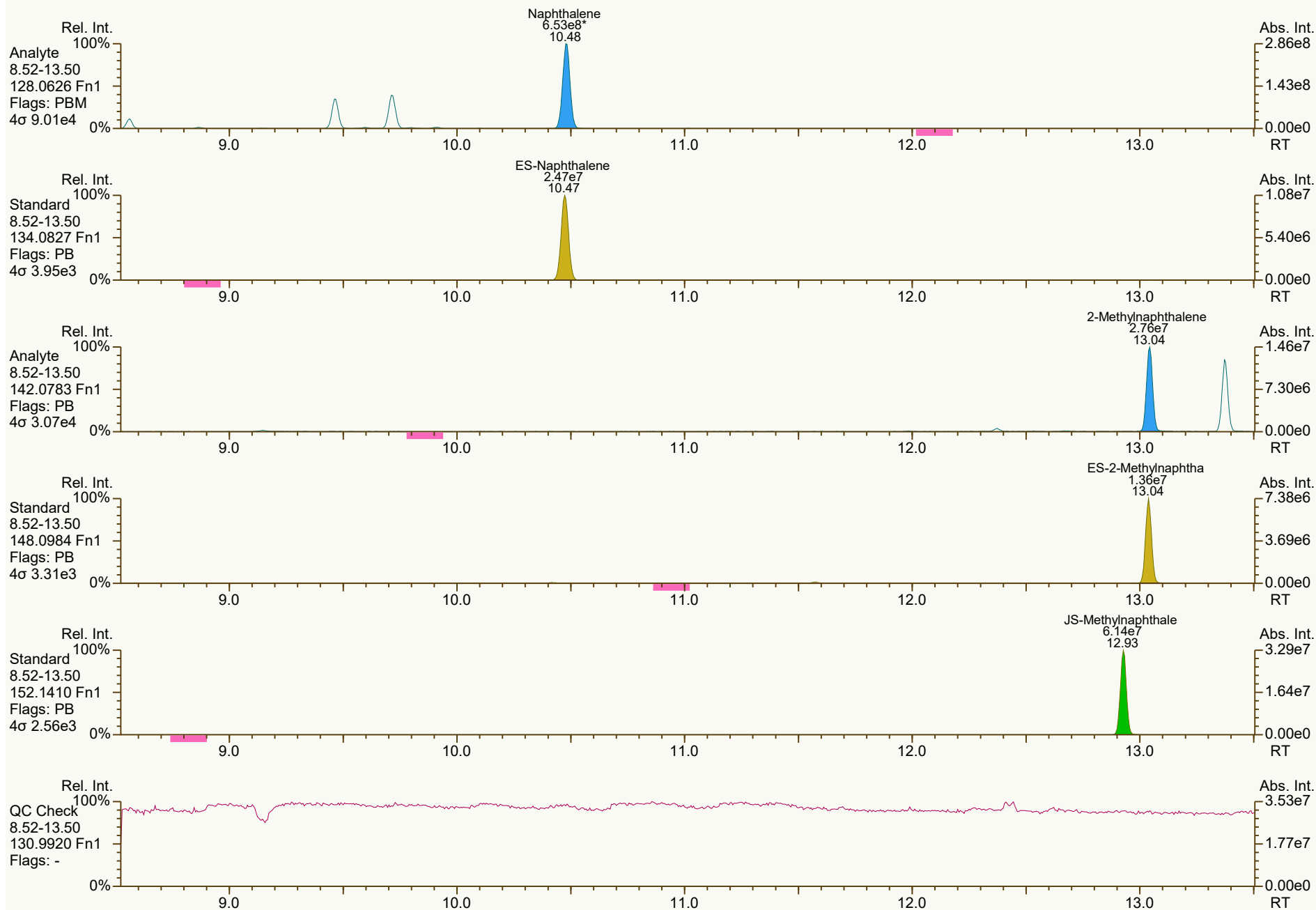
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 526-812

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:26 Page 1 of 9

SGS ID: MB1_21382_PAH_SDS
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 41

Acq: 19-Sep-2024 16:17:49
User: DTF Datafile: 240919V06



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Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:20 (DTF) Printed: 26-Sep-2024 13:26 Page 2 of 9

SGS ID: MB1_21382_PAH_SDS
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 41

Acq: 19-Sep-2024 16:17:49
User: DTF Datafile: 240919V06



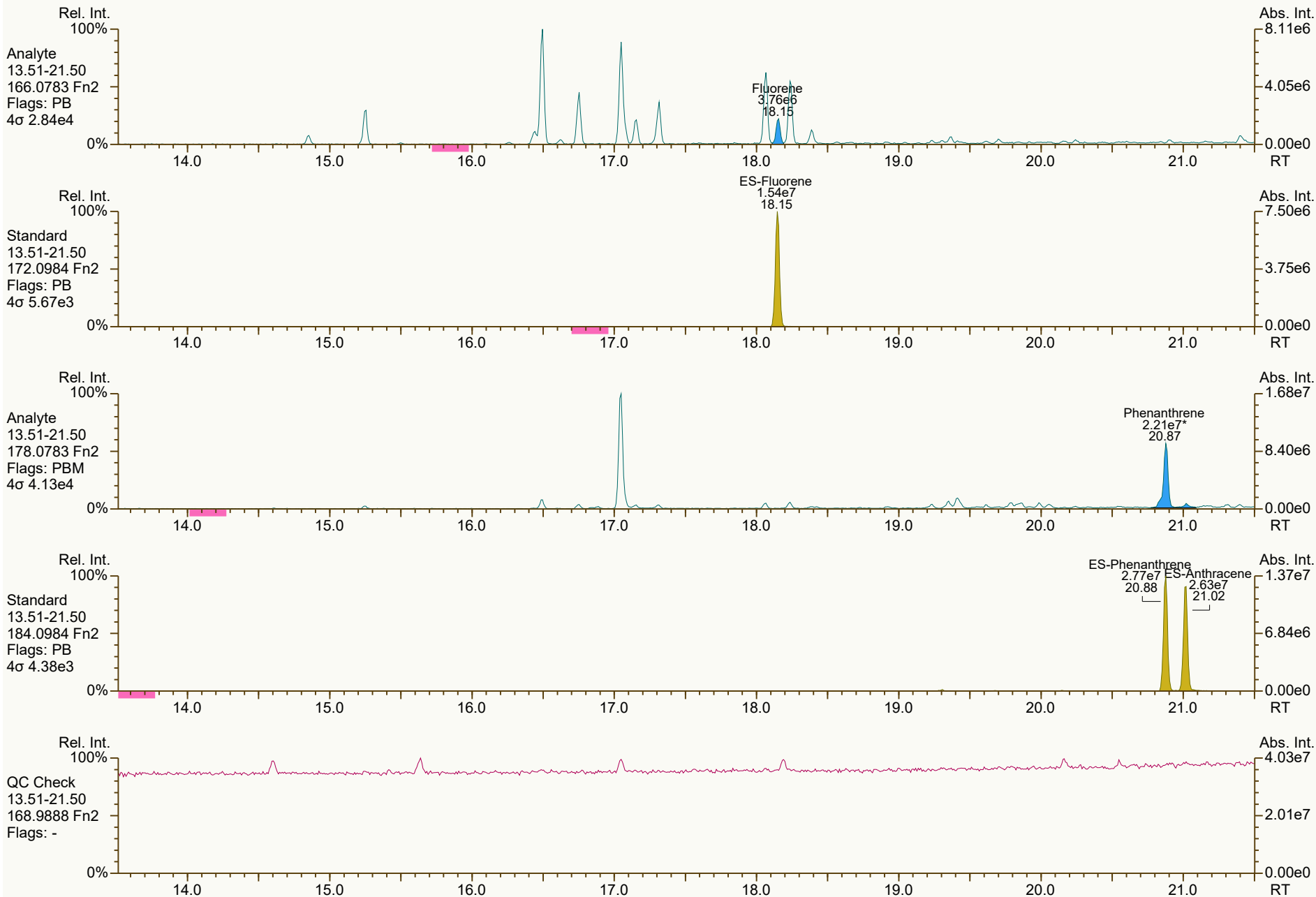
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Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:20 (DTF) Printed: 26-Sep-2024 13:26 Page 3 of 9

SGS ID: MB1_21382_PAH_SDS
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 41

Acq: 19-Sep-2024 16:17:49
User: DTF Datafile: 240919V06



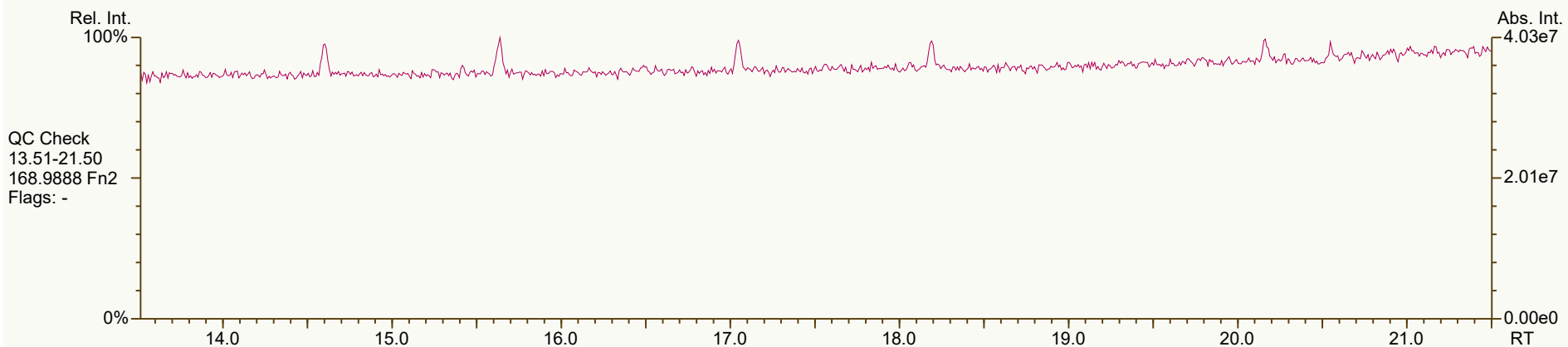
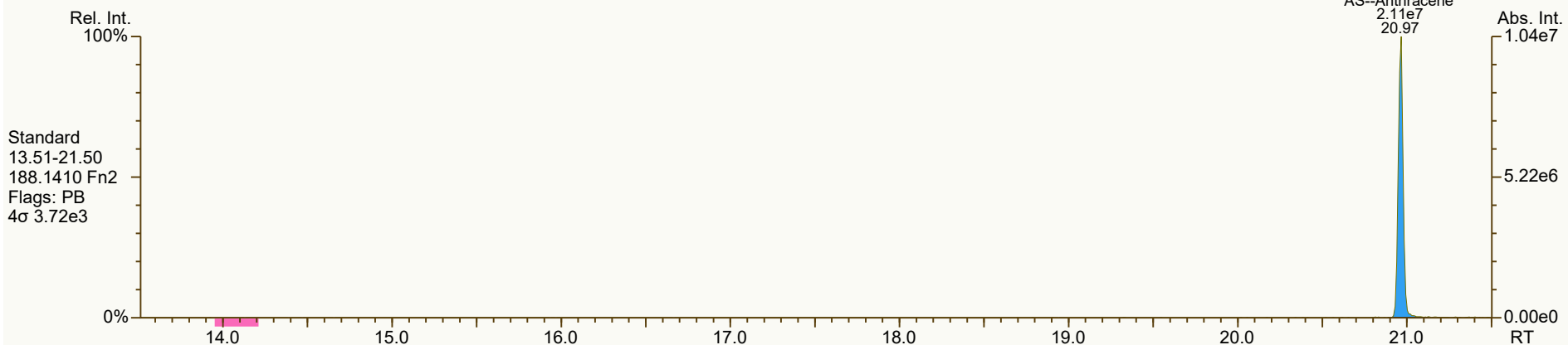
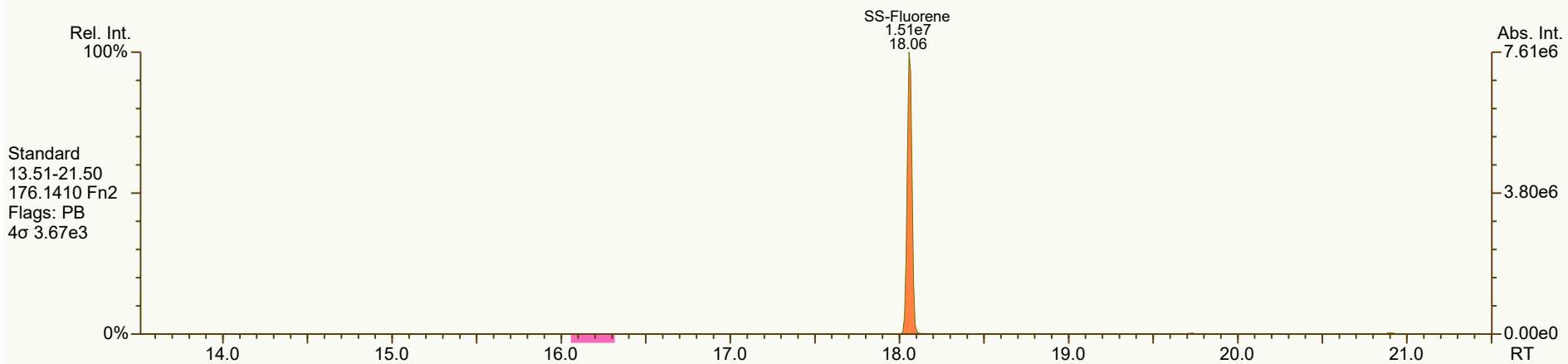
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Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:20 (DTF) Printed: 26-Sep-2024 13:26 Page 4 of 9

SGS ID: MB1_21382_PAH_SDS
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 41

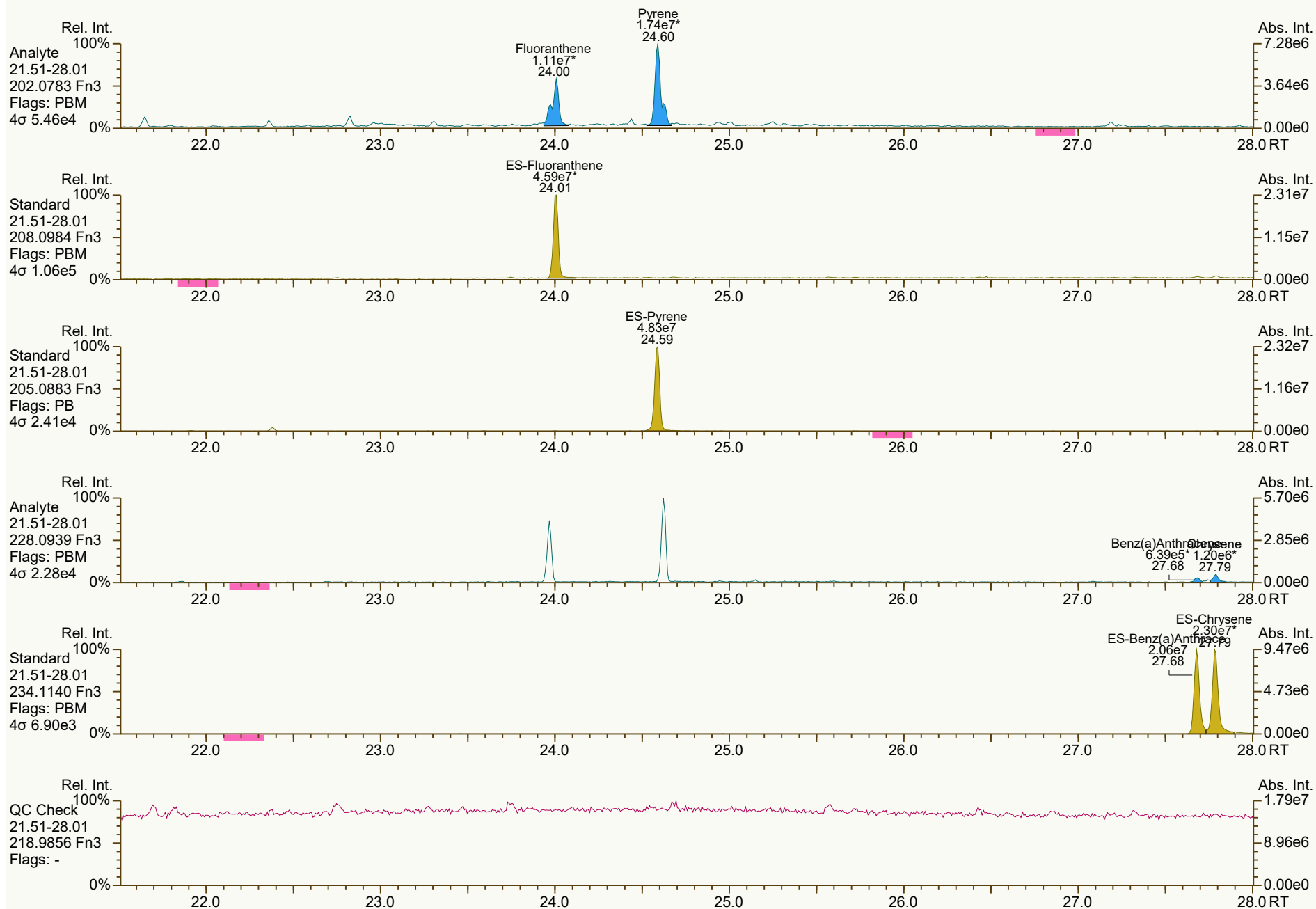
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User: DTF Datafile: 240919V06



SGS ID: MB1_21382_PAH_SDS
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 41

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User: DTF Datafile: 240919V06



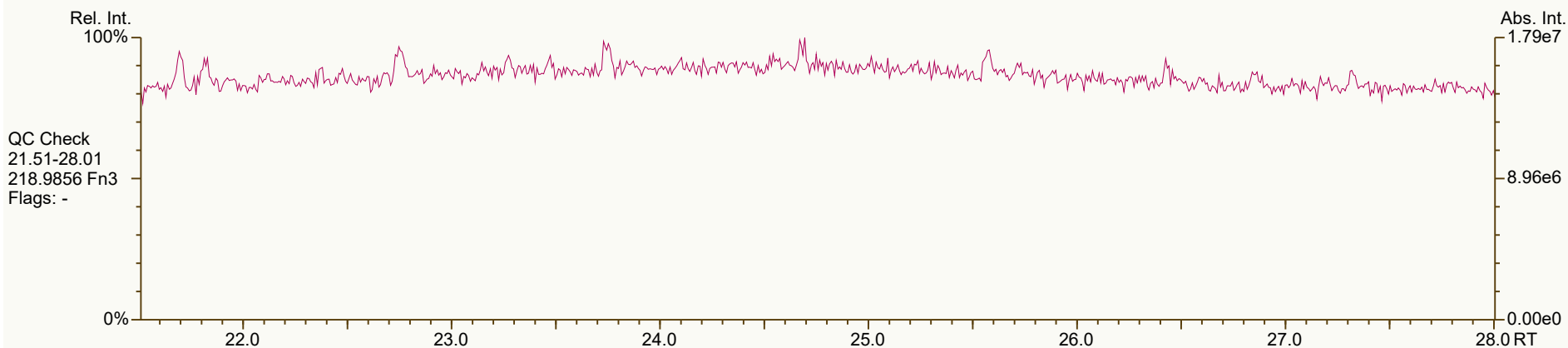
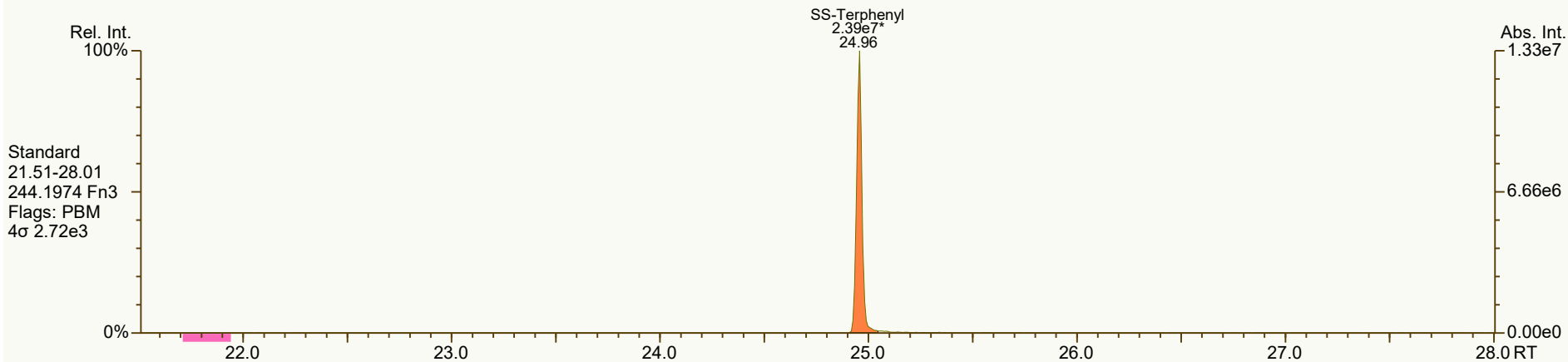
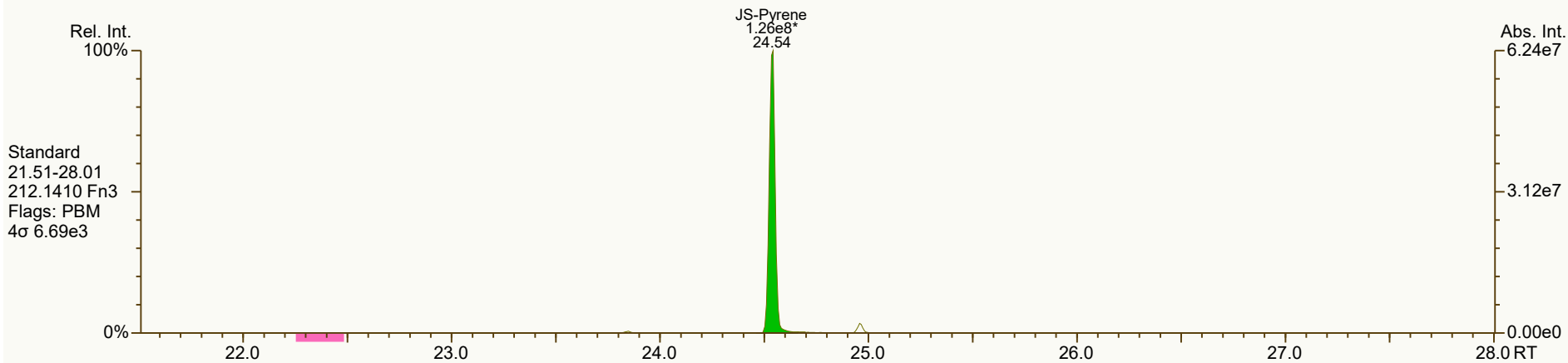
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 9845, 5769, 7208, 8890, 6913 scc: 526-812

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:20 (DTF) Printed: 26-Sep-2024 13:26 Page 6 of 9

SGS ID: MB1_21382_PAH_SDS
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 41

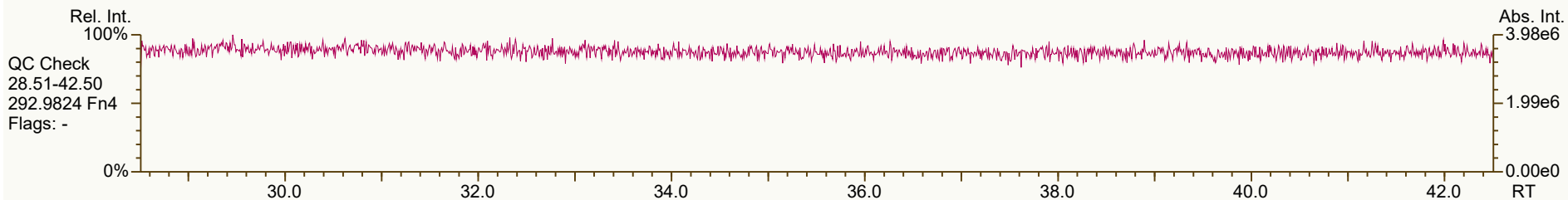
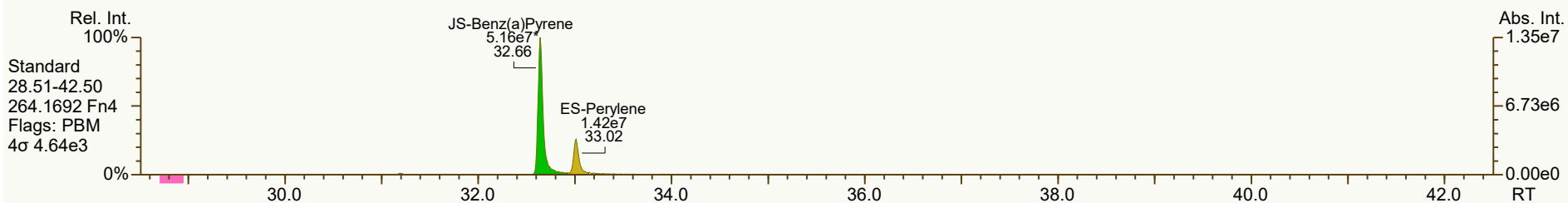
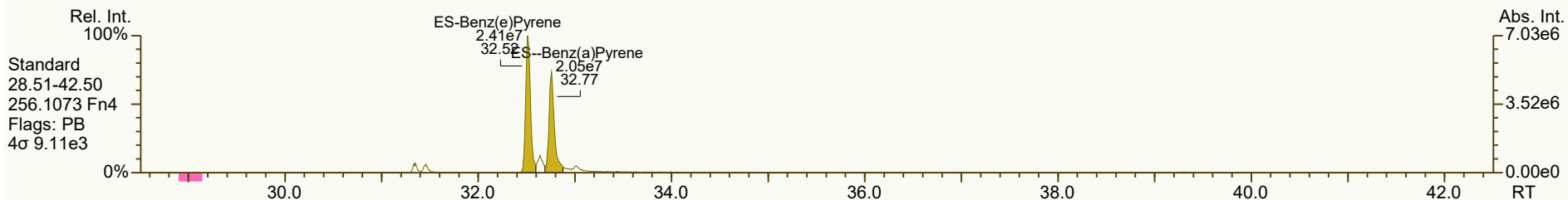
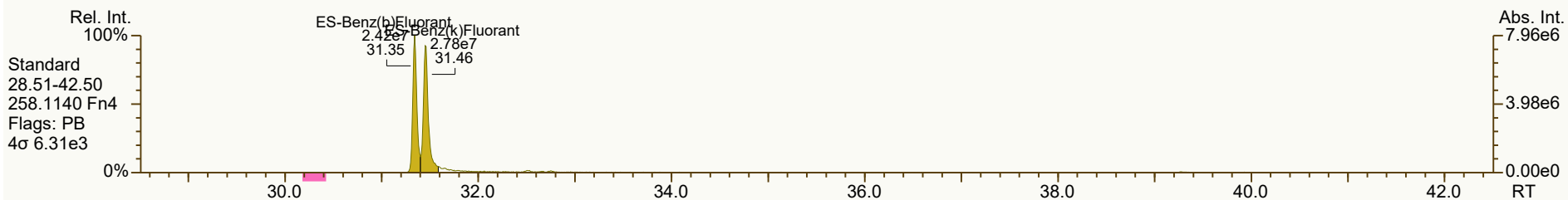
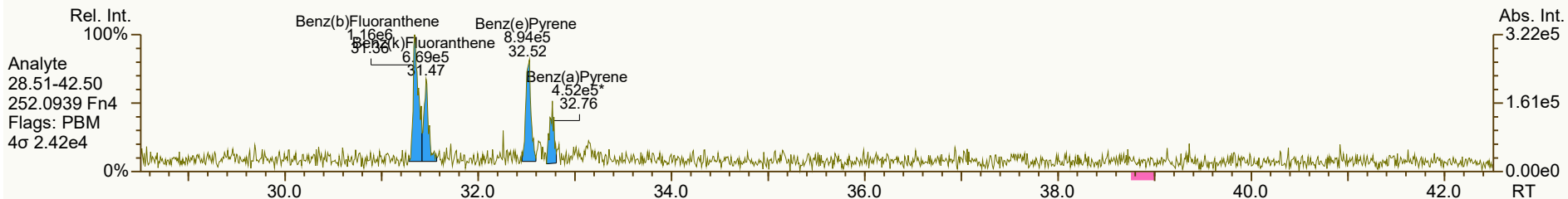
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SGS ID: MB1_21382_PAH_SDS
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 41

Acq: 19-Sep-2024 16:17:49
User: DTF Datafile: 240919V06



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Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:20 (DTF) Printed: 26-Sep-2024 13:26 Page 8 of 9

SGS ID: MB1_21382_PAH_SDS
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 41

Acq: 19-Sep-2024 16:17:49
User: DTF Datafile: 240919V06



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\MB1_21382_PAH_SDS.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 9514, 9503, 3239, 0359, 7802 scc: 526-812

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:21 Printed: 26-Sep-2024 13:26 Page 9 of 9

Datafile: 240925V03

Client ID: Method Blank B9770_21382

Wt/Vol: 1.00 Train

MM6_PAH_ICAL_05MAR2024

Acquired: 25 Sep 2024 11:53:50

Lab ID: MB1_21382_PAH_SDS-AR1

J Level: 4 ng/Train

Nominal ES spike: 40 ng

| | | Stats | PAH Ax | ES/SS | Checkcode: 311-444-ZTD | | | | | | | |
|-----------------------------|--------|-------|--------|--------|------------------------|----------|----|------|----------|----------|---------|--|
| Largest +ve RT shift (secs) | | | 0.6 | 2.2 | | | | | | | | |
| Largest -ve RT shift (secs) | | | -0.6 | -0.5 | | | | | | | | |
| Name | Actual | | Pred | Actual | Diff | Conc | | | | | | |
| | RT | QC | RRT | RRT | Secs | Response | Ra | RRF | ng/Train | Noise | DL | |
| Naphthalene | 10.47 | E | 1.0005 | 1.0005 | 0 | 2.78E+08 | - | 0.99 | 463 | 5.14E+04 | 0.48800 | |
| 2-Methylnaphthalene | 13.04 | | 1.0004 | 1.0004 | 0 | 2.01E+07 | - | 1.01 | 42.2 | 2.13E+04 | 0.20200 | |
| Acenaphthylene | 16.00 | J | 1.0000 | 1.0006 | +0.6 | 4.36E+05 | - | 0.92 | 1.06 | 5.20E+04 | 0.63800 | |
| Acenaphthene | 16.56 | | 1.0005 | 1.0000 | -0.5 | 2.85E+06 | - | 1.01 | 8.66 | 2.73E+04 | 0.43700 | |
| Fluorene | 18.15 | | 1.0000 | 1.0005 | +0.5 | 4.02E+06 | - | 1.02 | 7.71 | 1.96E+04 | 0.19000 | |
| Phenanthrene | 20.88 | | 1.0004 | 1.0004 | 0 | 2.79E+07 | - | 1.00 | 25 | 2.65E+04 | 0.11800 | |
| Anthracene | 21.02 | J | 1.0000 | 1.0004 | +0.5 | 1.53E+06 | - | 1.23 | 1.27 | 2.65E+04 | 0.11000 | |
| Fluoranthene | 24.00 | | 1.0000 | 1.0000 | 0 | 9.30E+06 | - | 0.92 | 7.84 | 3.36E+04 | 0.13900 | |
| Pyrene | 24.58 | | 1.0000 | 1.0000 | 0 | 1.64E+07 | - | 0.98 | 13.3 | 3.36E+04 | 0.13200 | |
| Benzo (a) Anthracene | 27.68 | J | 1.0000 | 1.0000 | 0 | 7.06E+05 | - | 1.00 | 0.878 | 1.65E+04 | 0.11700 | |
| Chrysene | 27.78 | J | 1.0003 | 1.0000 | -0.5 | 1.83E+06 | - | 1.01 | 1.99 | 1.65E+04 | 0.11000 | |
| Benzo (b) Fluoranthene | 31.35 | J | 1.0003 | 1.0003 | 0 | 9.67E+05 | - | 0.98 | 1.53 | 1.19E+04 | 0.14800 | |
| Benzo (k) Fluoranthene | 31.45 | J | 1.0003 | 1.0000 | -0.6 | 3.49E+05 | - | 0.92 | 0.487 | 1.19E+04 | 0.15800 | |
| Benzo (e) Pyrene | 32.52 | J | 1.0000 | 1.0000 | 0 | 6.06E+05 | - | 0.98 | 0.934 | 1.19E+04 | 0.16700 | |
| Benzo (a) Pyrene | 32.77 | J | 1.0003 | 1.0003 | 0 | 1.09E+05 | - | 0.98 | 0.429 | 1.19E+04 | 0.49200 | |
| Perylene | - | | 1.0039 | 0.0000 | | 0.00E+00 | - | 1.06 | ND | 1.19E+04 | 4.36000 | |
| Indeno (1,2,3-cd) Pyrene | 39.10 | J | 1.0002 | 1.0002 | 0 | 2.70E+05 | - | 0.92 | 0.648 | 7.86E+03 | 0.30400 | |
| Dibenzo (a,h) Anthracene | - | | 0.9998 | 0.0000 | | 0.00E+00 | - | 0.94 | ND | 6.97E+03 | 0.32800 | |
| Benzo (ghi) Perylene | 40.95 | J | 1.0002 | 1.0002 | 0 | 5.26E+05 | - | 0.97 | 0.992 | 7.86E+03 | 0.27000 | |

Datafile: 240925V03

Client ID: Method Blank B9770_21382

Wt/Vol: 1.00 Train

MM6_PAH_ICAL_05MAR2024

Acquired: 25 Sep 2024 11:53:50

Lab ID: MB1_21382_PAH_SDS-AR1

J Level: 4 ng/Train

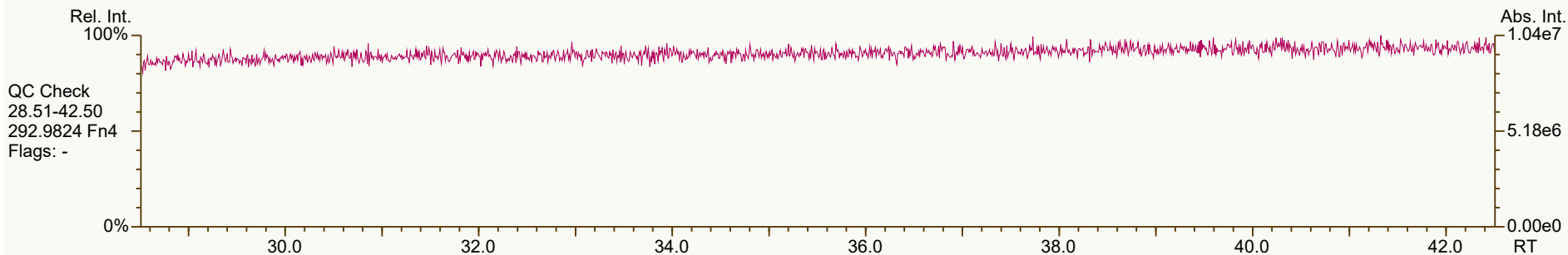
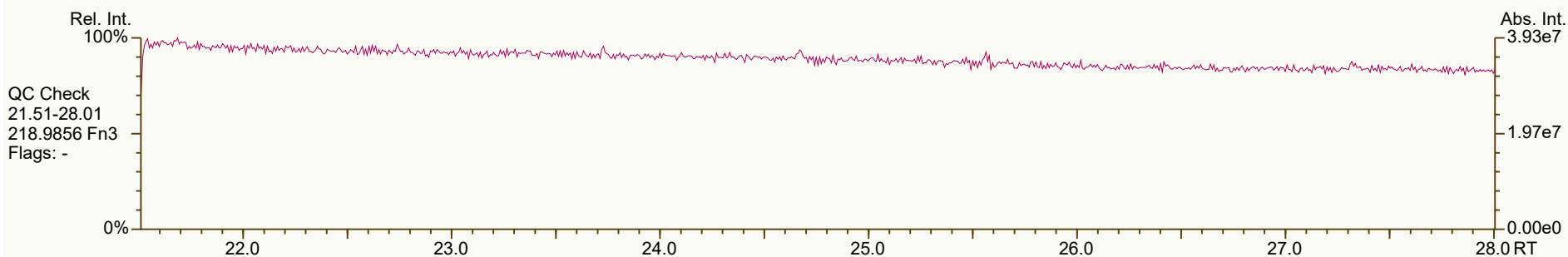
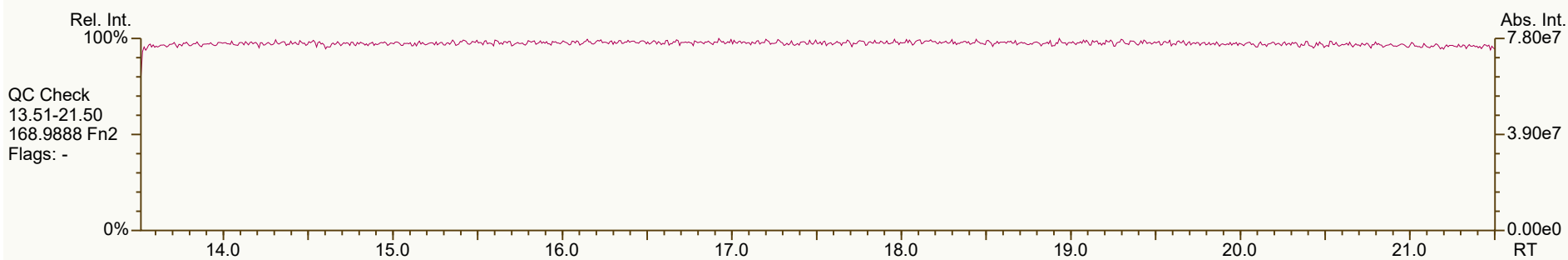
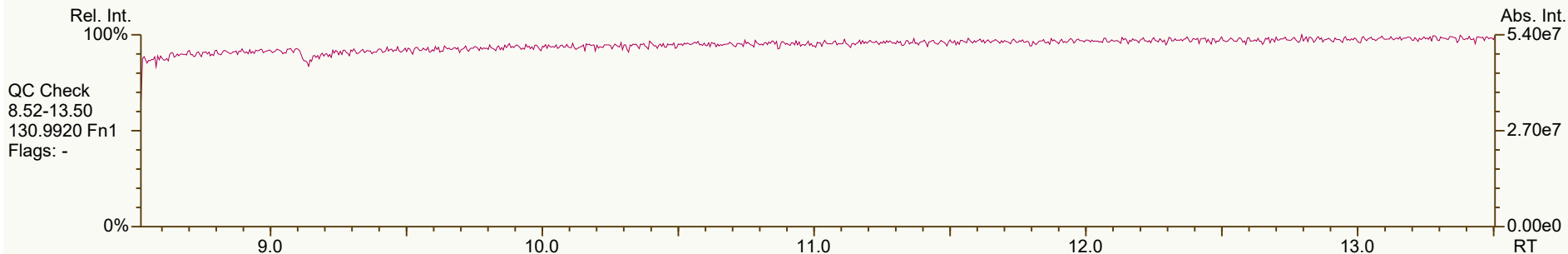
Nominal ES spike: 40 ng

| | | Stats | PAH Ax | ES/SS | Checkcode: 311-444-ZTD | | | | |
|-------------------------------|--------|-------|--------|--------|------------------------|----------|----|------|-------|
| Largest +ve RT shift (secs) | | | 0.6 | 2.2 | | | | | |
| Largest -ve RT shift (secs) | | | -0.6 | -0.5 | | | | | |
| Name | Actual | | Pred | Actual | Diff | Response | Ra | RRF | Recv. |
| | RT | QC | RRT | RRT | Secs | | | | |
| 13C6-Naphthalene | 10.47 | | 0.8106 | 0.8100 | -0.5 | 2.42E+07 | - | 1.35 | 56 |
| 13C6-2-Methylnaphthalene | 13.03 | | 1.0082 | 1.0086 | +0.3 | 1.89E+07 | - | 0.99 | 59.5 |
| 13C6-Acenaphthylene | 16.00 | | 0.9723 | 0.9723 | 0 | 1.78E+07 | - | 1.37 | 60.8 |
| 13C6-Acenaphthene | 16.56 | | 1.0060 | 1.0065 | +0.5 | 1.30E+07 | - | 0.91 | 66.9 |
| 13C6-Fluorene | 18.14 | | 1.1025 | 1.1026 | +0.1 | 2.05E+07 | - | 1.09 | 87.8 |
| 13C6-Phenanthrene | 20.87 | | 1.2679 | 1.2686 | +0.7 | 4.48E+07 | - | 1.91 | 110 |
| 13C6-Anthracene | 21.01 | V | 1.2766 | 1.2773 | +0.7 | 3.93E+07 | - | 1.35 | 137 |
| 13C6-Fluoranthene | 24.00 | | 0.9782 | 0.9782 | 0 | 5.18E+07 | - | 1.23 | 86.2 |
| 13C3-Pyrene | 24.58 | | 1.0020 | 1.0020 | 0 | 5.04E+07 | - | 1.23 | 83.3 |
| 13C6-Benzo (a) Anthracene | 27.68 | | 1.1278 | 1.1281 | +0.4 | 3.21E+07 | - | 0.86 | 75.8 |
| 13C6-Chrysene | 27.78 | | 1.1321 | 1.1324 | +0.4 | 3.64E+07 | - | 1.19 | 62.6 |
| 13C6-Benzo (b) Fluoranthene | 31.34 | | 0.9600 | 0.9602 | +0.4 | 2.58E+07 | - | 1.28 | 104 |
| 13C6-Benzo (k) Fluoranthene | 31.45 | | 0.9634 | 0.9636 | +0.4 | 3.12E+07 | - | 1.82 | 88.3 |
| 13C4-Benzo (e) Pyrene | 32.52 | | 0.9961 | 0.9964 | +0.6 | 2.66E+07 | - | 1.56 | 87.9 |
| 13C4-Benzo (a) Pyrene | 32.76 | | 1.0031 | 1.0036 | +1.0 | 1.03E+07 | - | 1.23 | 43.4 |
| dl2-Perylene | 33.02 | h V | 1.0112 | 1.0117 | +1.0 | 1.06E+06 | - | 1.13 | 4.85 |
| 13C6-Indeno (1,2,3-cd) Pyrene | 39.10 | | 1.1967 | 1.1978 | +2.2 | 1.82E+07 | - | 0.85 | 110 |
| 13C6-Dibenzo (ah) Anthracene | 39.29 | | 1.2035 | 1.2038 | +0.6 | 1.82E+07 | - | 0.94 | 99.6 |
| 13C12-Benzo (ghi) Perylene | 40.94 | | 1.2536 | 1.2544 | +1.6 | 2.19E+07 | - | 1.33 | 84.9 |
| AS--Anthracene FS | 20.96 | V | 1.2733 | 1.2740 | +0.7 | 3.16E+07 | - | 1.17 | 126 |
| SS-Fluorene | 18.06 | | 0.9951 | 0.9956 | +0.5 | 2.11E+07 | - | 1.00 | 103 |
| SS-Terphenyl | 24.95 | | 1.0396 | 1.0396 | 0 | 4.40E+07 | - | 0.79 | 107 |
| JS-Methylnaphthalene | 12.92 | | - | - | - | 3.21E+07 | - | - | - |
| JS-Acenaphthene | 16.45 | | - | - | - | 2.14E+07 | - | - | - |
| JS-Pyrene | 24.53 | | - | - | - | 4.90E+07 | - | - | - |
| JS-Benzo (a) Pyrene | 32.64 | | - | - | - | 1.94E+07 | - | - | - |

SGS ID: MB1_21382_PAH_SDS-AR1
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 58

Acq: 25-Sep-2024 11:53:50
User: DTF Datafile: 240925V03



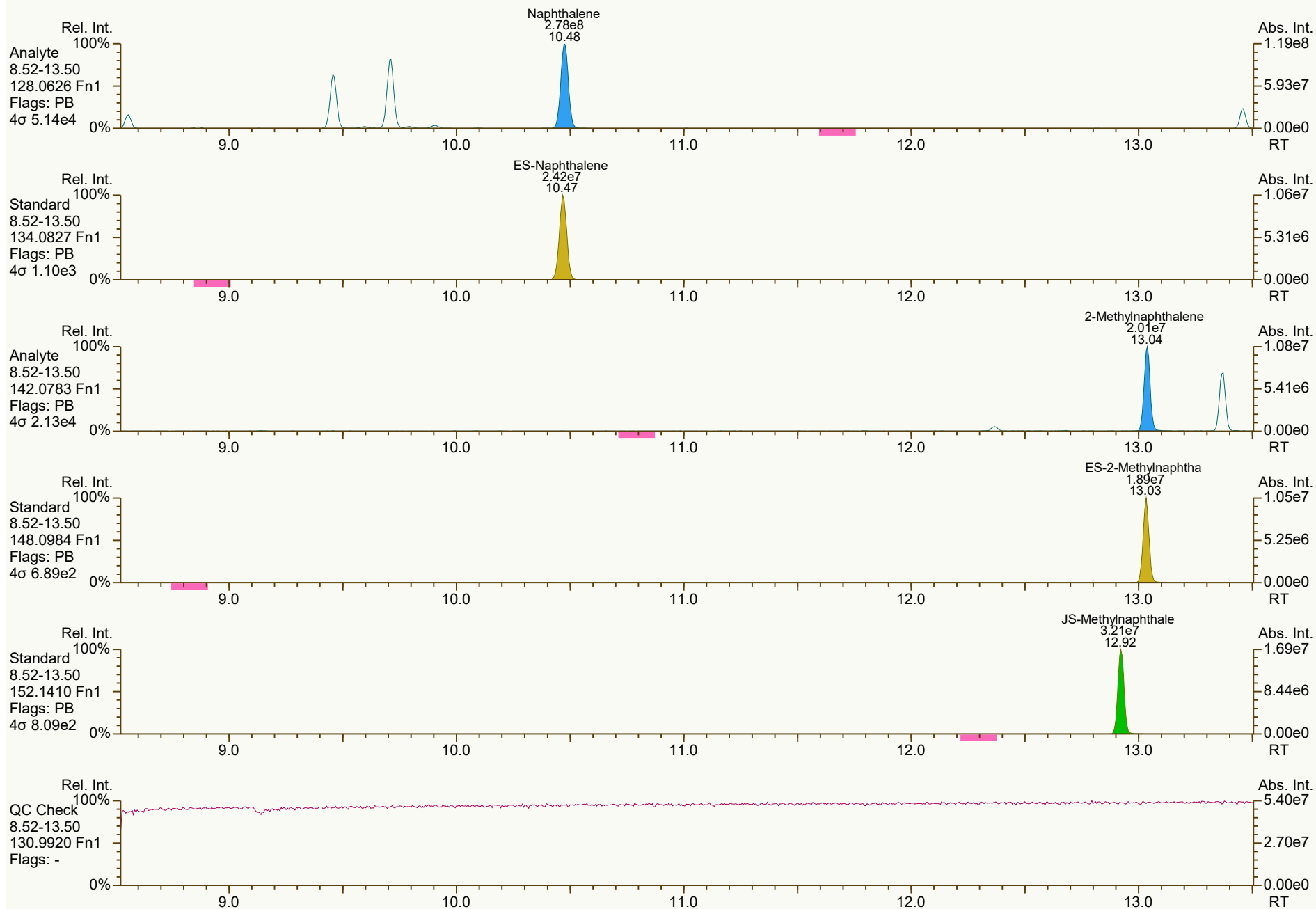
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 311-444

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:34 Page 1 of 9

SGS ID: MB1_21382_PAH_SDS-AR1
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 58

Acq: 25-Sep-2024 11:53:50
User: DTF Datafile: 240925V03



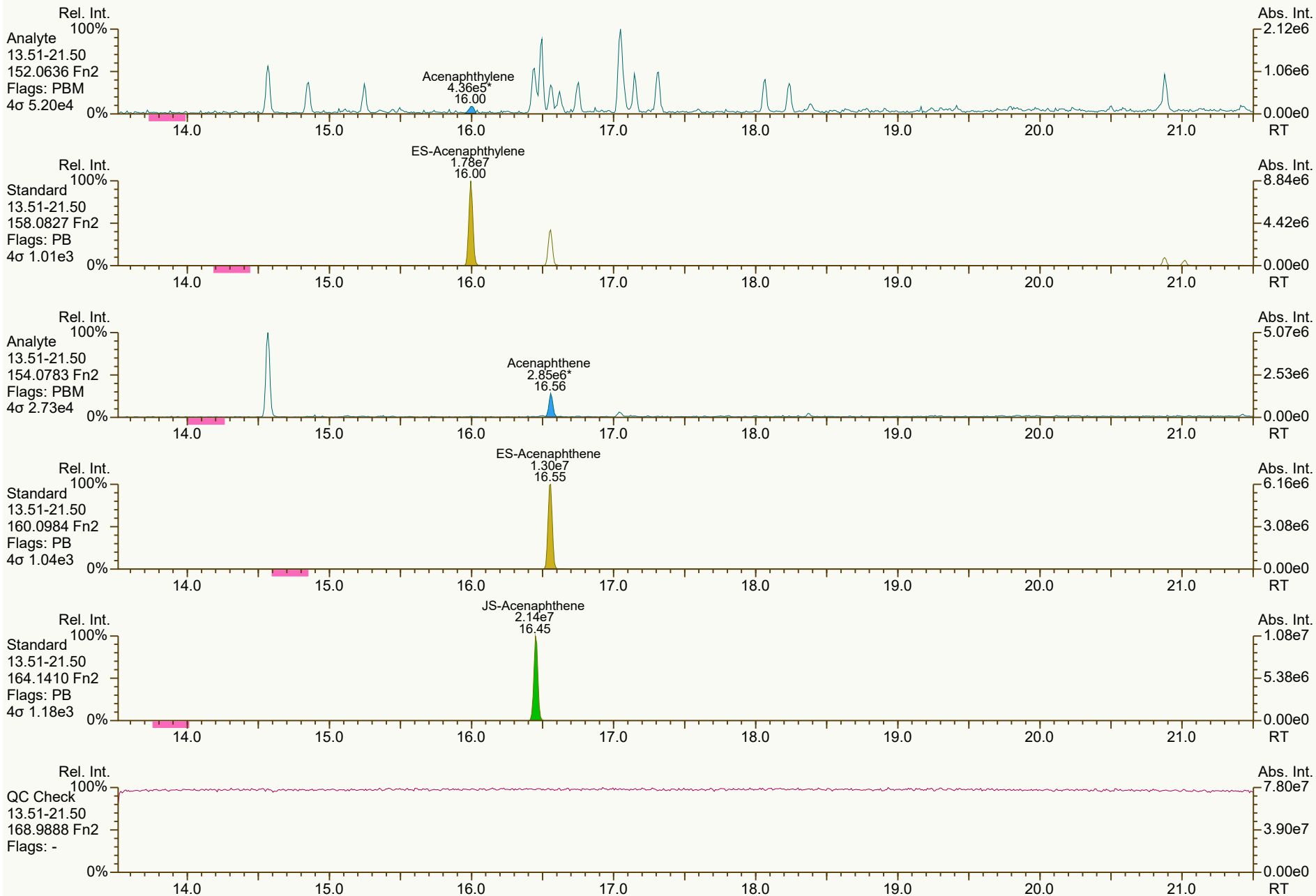
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 9068, 2727, 3109, 9410, 9365 scc: 311-444

Peak annotation: Areas, Centroids
PKD: 26-Sep-2024 11:30 Printed: 26-Sep-2024 13:34 Page 2 of 9

SGS ID: MB1_21382_PAH_SDS-AR1
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 58

Acq: 25-Sep-2024 11:53:50
User: DTF Datafile: 240925V03



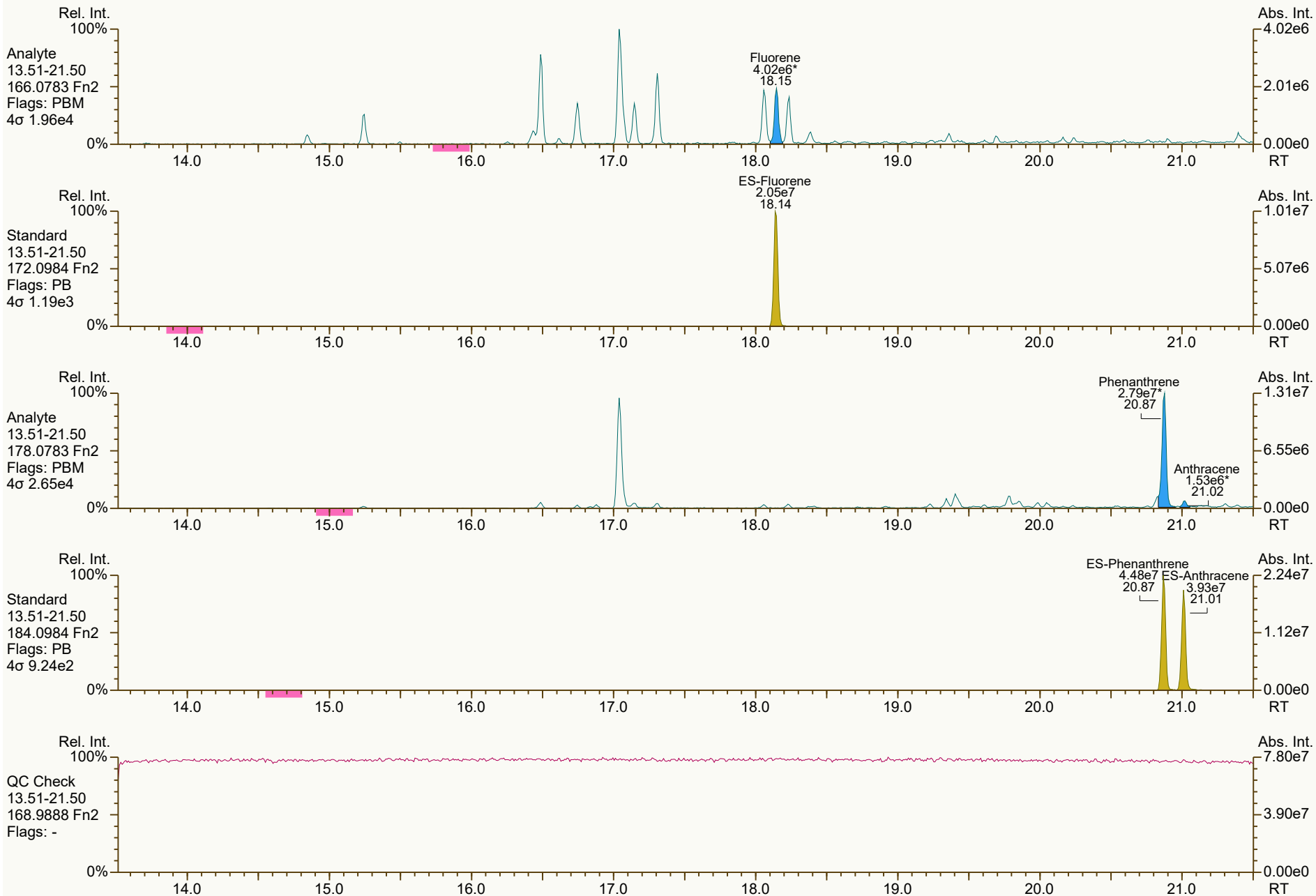
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 6701, 6946, 0983, 7418, 1908 scc: 311-444

Peak annotation: Areas, Centroids
Revised: 26-Sep-2024 11:31 (DTF) Printed: 26-Sep-2024 13:34 Page 3 of 9

SGS ID: MB1_21382_PAH_SDS-AR1
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 58

Acq: 25-Sep-2024 11:53:50
User: DTF Datafile: 240925V03



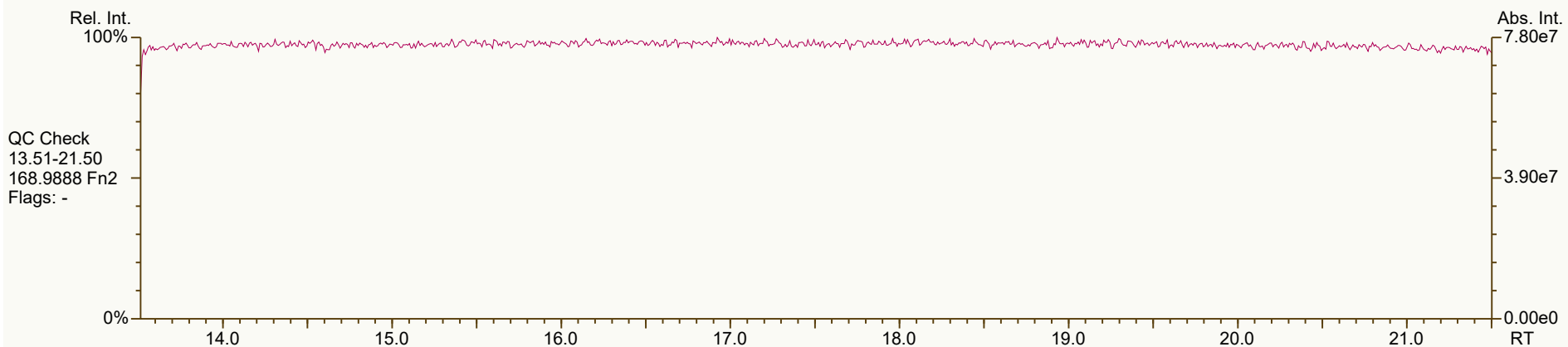
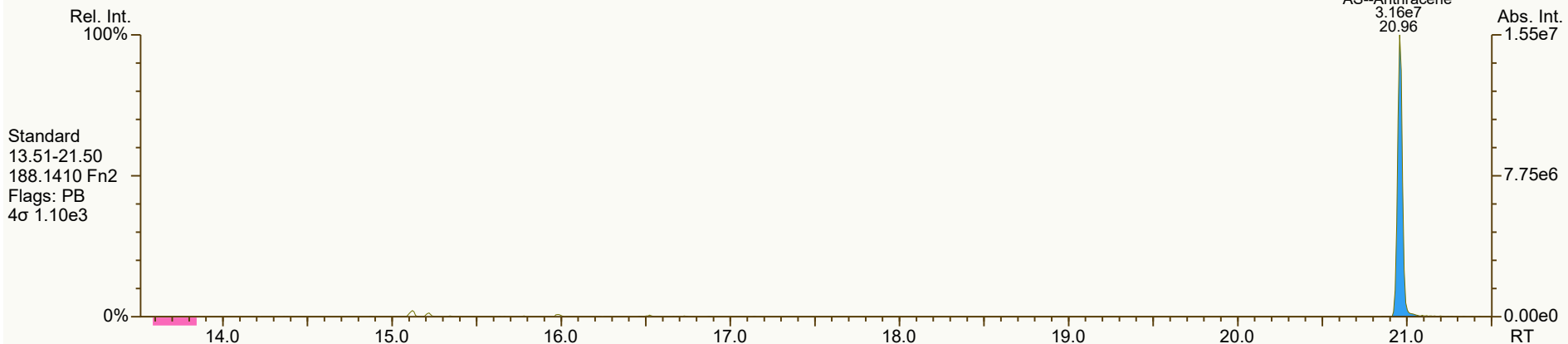
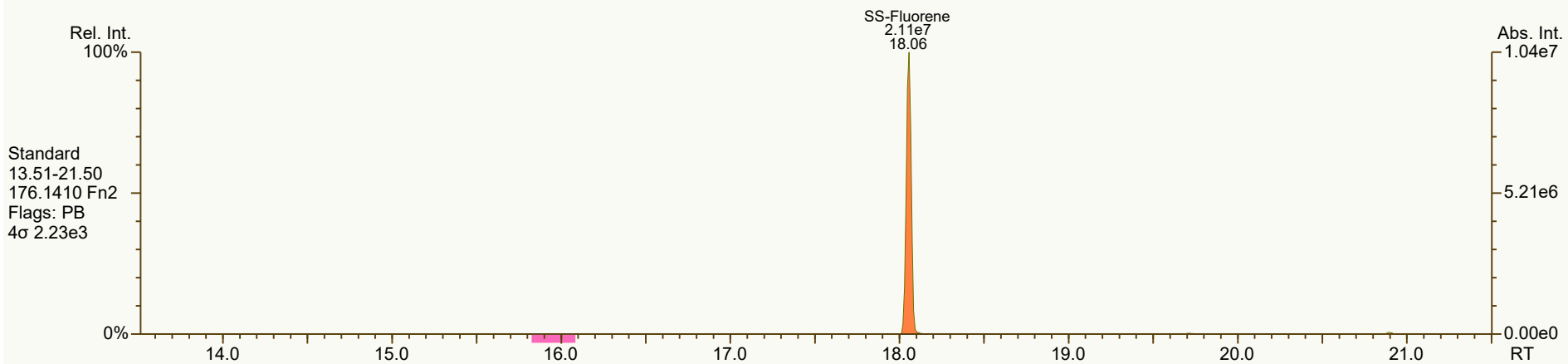
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1353, 0887, 3777, 8835 scc: 311-444

Peak annotation: Areas, Centroids
Revised: 26-Sep-2024 11:31 (DTF) Printed: 26-Sep-2024 13:35 Page 4 of 9

SGS ID: MB1_21382_PAH_SDS-AR1
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 58

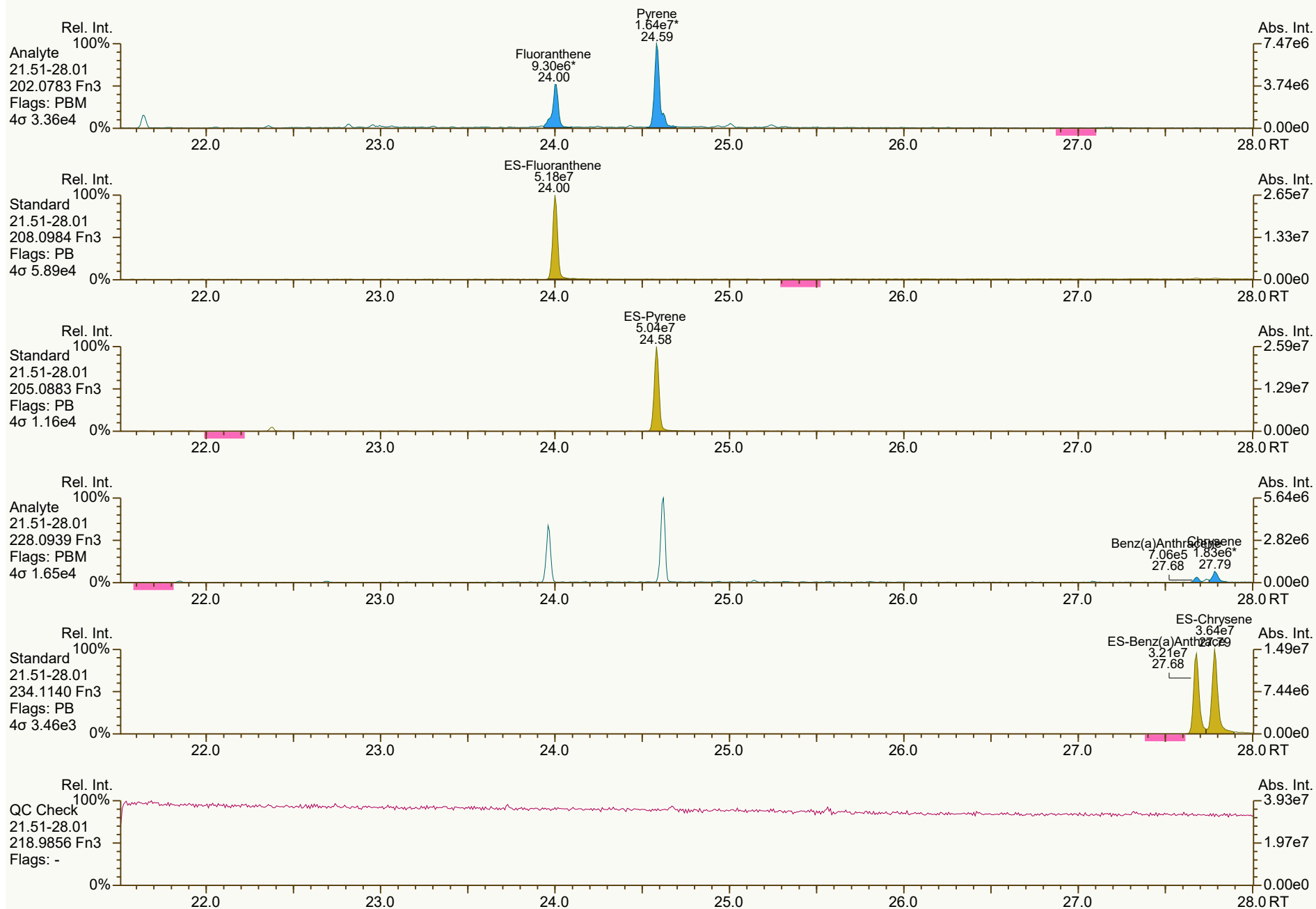
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SGS ID: MB1_21382_PAH_SDS-AR1
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 58

Acq: 25-Sep-2024 11:53:50
User: DTF Datafile: 240925V03



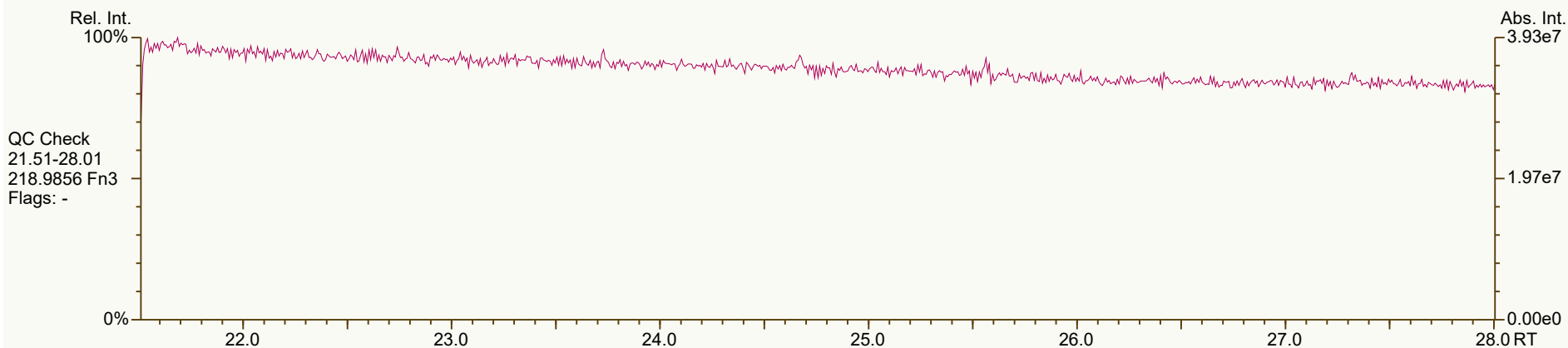
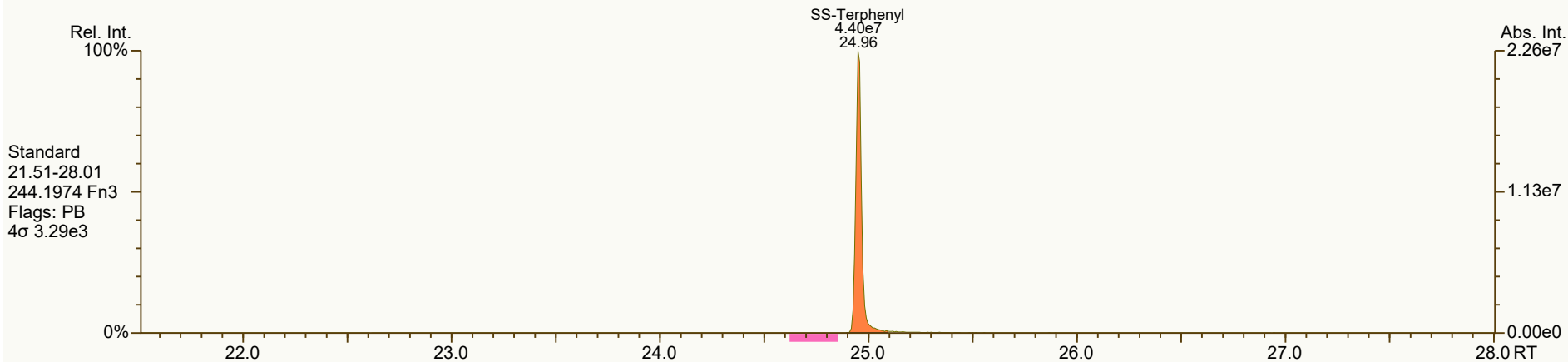
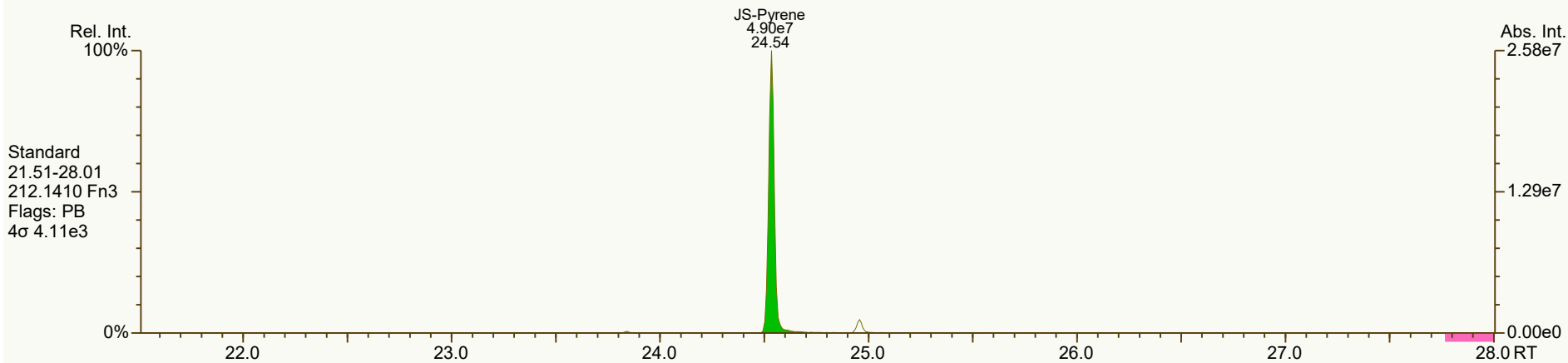
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 2769, 6349, 3443, 4486, 9008 scc: 311-444

Peak annotation: Areas, Centroids
Revised: 26-Sep-2024 11:31 (DTF) Printed: 26-Sep-2024 13:35 Page 6 of 9

SGS ID: MB1_21382_PAH_SDS-AR1
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 58

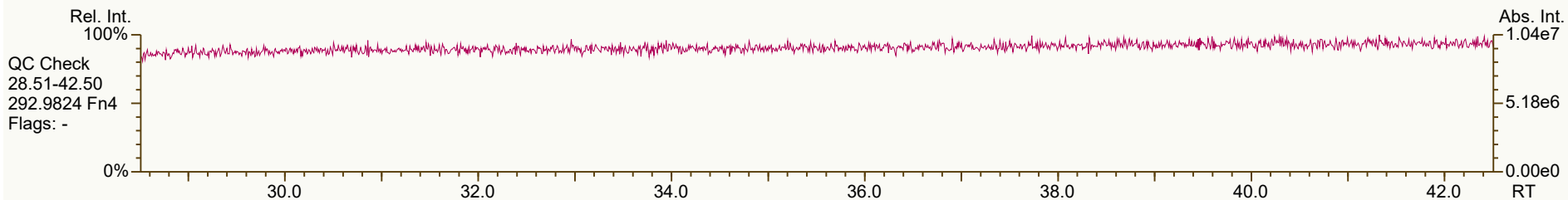
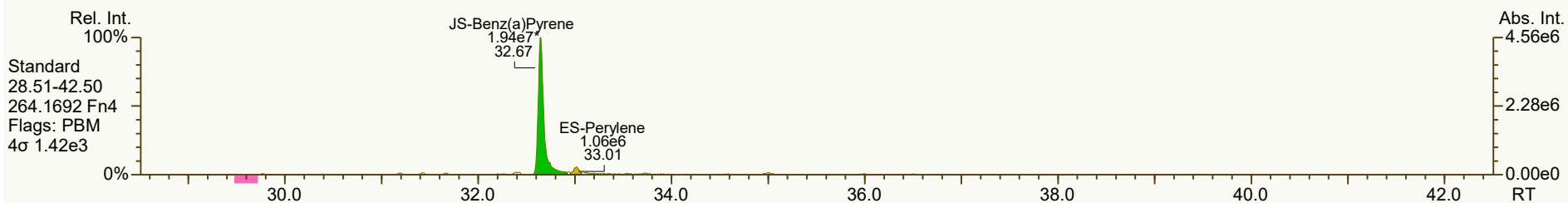
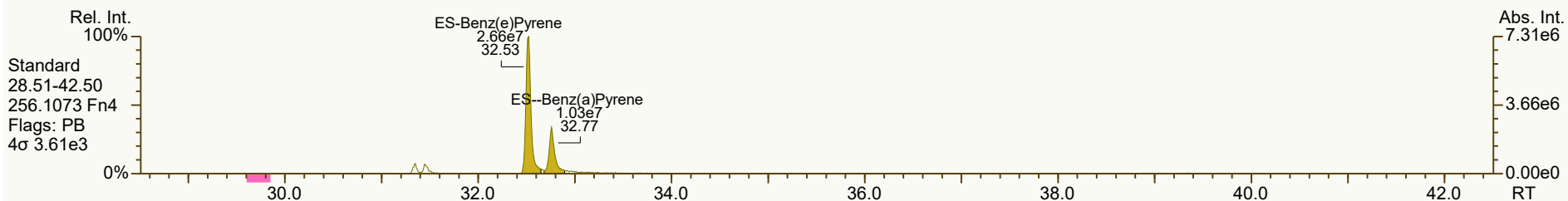
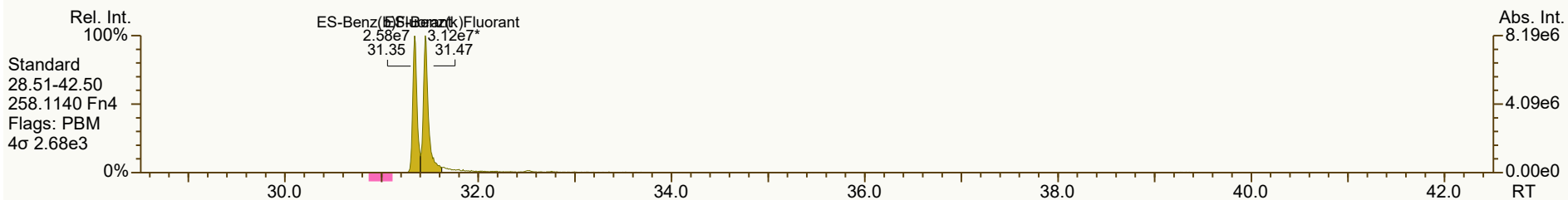
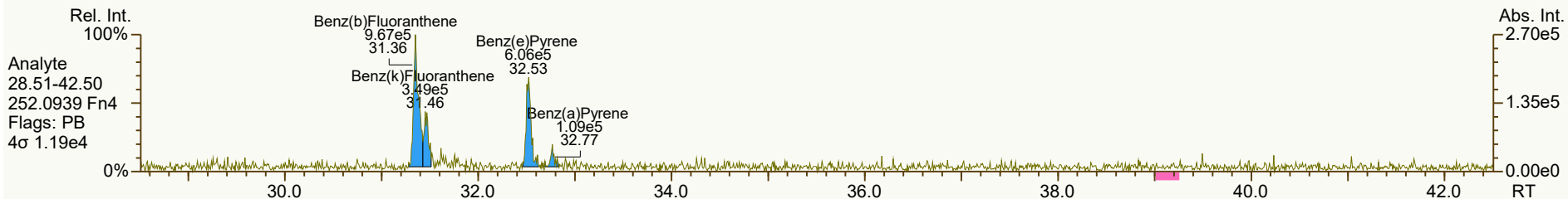
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SGS ID: MB1_21382_PAH_SDS-AR1
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 58

Acq: 25-Sep-2024 11:53:50
User: DTF Datafile: 240925V03



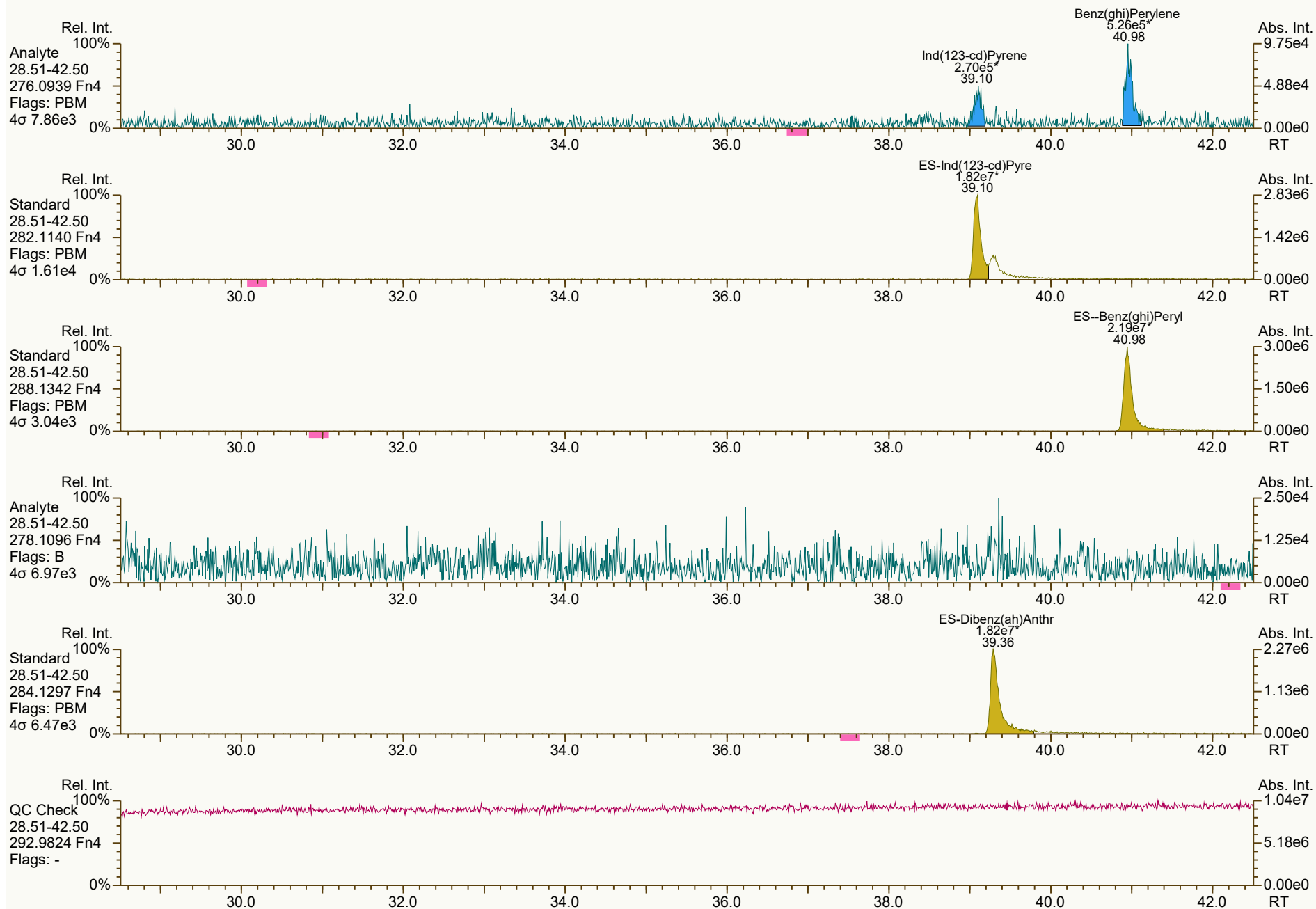
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 5834, 4266, 5250, 4936 scc: 311-444

Peak annotation: Areas, Centroids
Revised: 26-Sep-2024 11:30 (DTF) Printed: 26-Sep-2024 13:35 Page 8 of 9

SGS ID: MB1_21382_PAH_SDS-AR1
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Method Blank
VSIR EI+ Expt: pah GC: pah Vial: 58

Acq: 25-Sep-2024 11:53:50
User: DTF Datafile: 240925V03



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\MB1_21382_PAH_SDS-AR1.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 0718, 4739, 4562, 1282, 2598 scc: 311-444

Peak annotation: Areas, Centroids
Revised: 26-Sep-2024 11:32 (DTF) Printed: 26-Sep-2024 13:35 Page 9 of 9

Datafile: 240919V17

Client ID: Test#1 Mill Off

Wt/Vol: 1.00 Train

MM6_PAH_ICAL_05MAR2024

Acquired: 20 Sep 2024 00:52:17

Lab ID: B9770_21382_PAH_001-D10

J Level: 4 ng/Train

Nominal ES spike: 40 ng

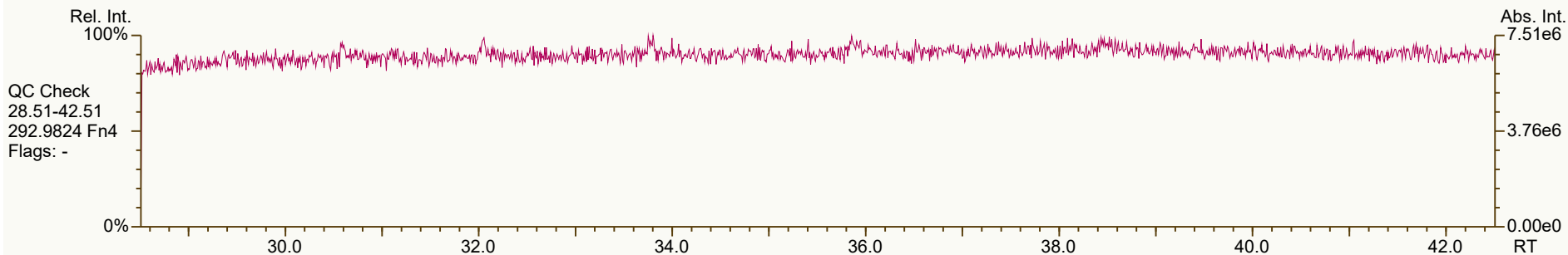
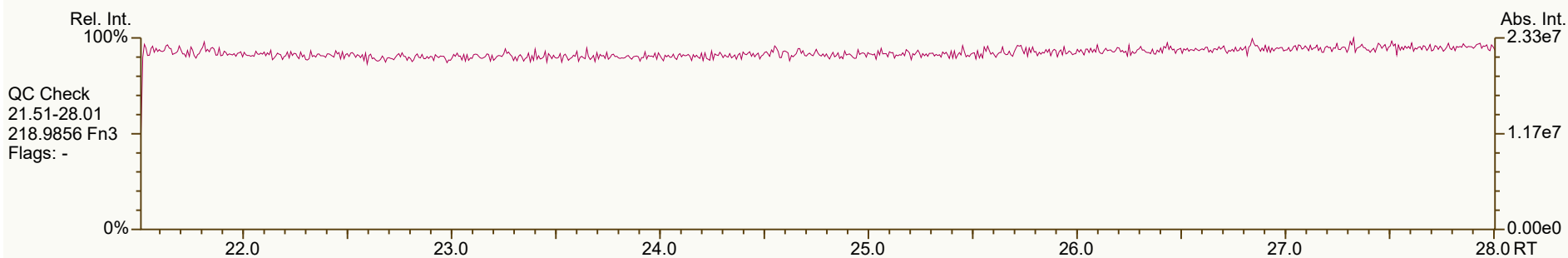
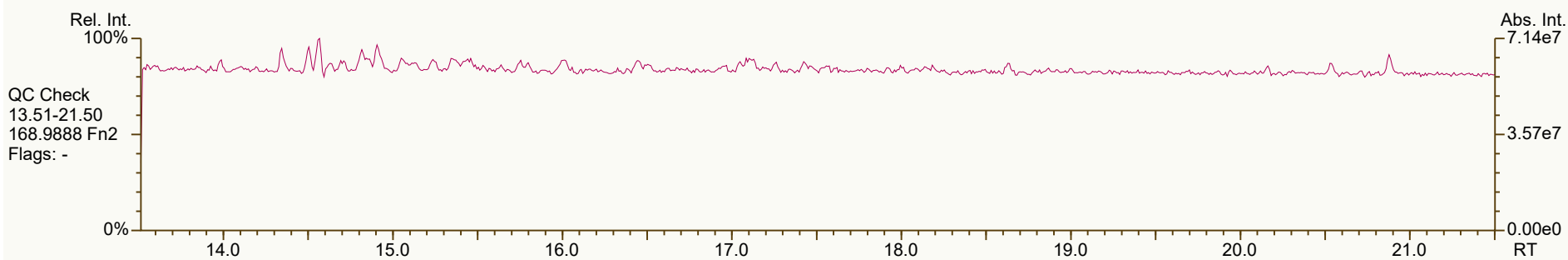
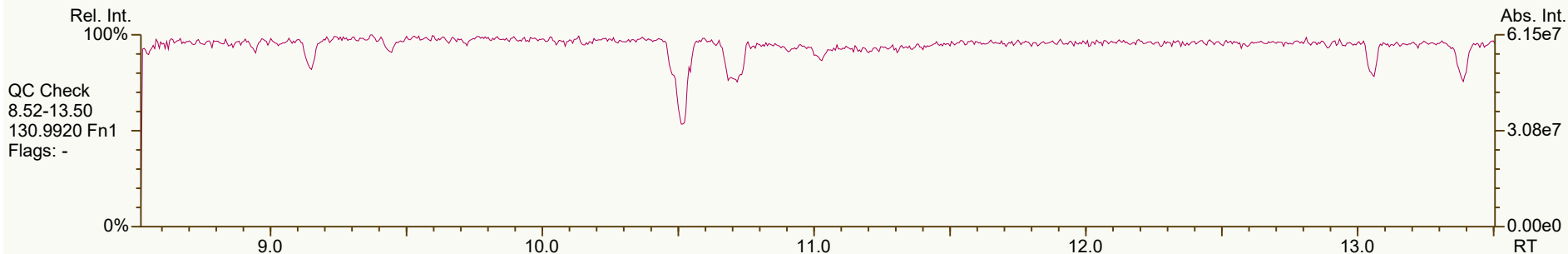
| | | Stats | PAH Ax | ES/SS | | | | | | | | Checkcode: 895-251-BPM |
|-----------------------------|--------|-------|--------|--------|------|----------|----|------|----------|----------|----------|------------------------|
| Largest +ve RT shift (secs) | | | 1.0 | 2.7 | | | | | | | | |
| Largest -ve RT shift (secs) | | | -2.3 | -0.6 | | | | | | | | |
| Name | Actual | | Pred | Actual | Diff | Conc | | | | | | |
| | RT | QC | RRT | RRT | Secs | Response | Ra | RRF | ng/Train | Noise | DL | |
| Naphthalene | 10.50 | E | 1.0005 | 0.9968 | -2.3 | 7.37E+09 | - | 0.99 | 16500 | 2.78E+06 | 65.70000 | |
| 2-Methylnaphthalene | 13.04 | E | 1.0004 | 0.9992 | -0.9 | 3.51E+09 | - | 1.01 | 47500 | 5.41E+04 | 3.31000 | |
| Acenaphthylene | 16.00 | E | 1.0000 | 1.0000 | 0 | 1.86E+09 | - | 0.92 | 23100 | 2.85E+05 | 15.50000 | |
| Acenaphthene | 16.57 | | 1.0005 | 1.0005 | 0 | 1.20E+07 | - | 1.01 | 277 | 9.38E+04 | 9.99000 | |
| Fluorene | 18.15 | | 1.0000 | 1.0000 | 0 | 7.95E+06 | - | 1.02 | 166 | 5.61E+04 | 5.03000 | |
| Phenanthrene | 20.88 | E | 1.0004 | 1.0000 | -0.5 | 7.73E+08 | - | 1.00 | 8730 | 6.27E+04 | 2.83000 | |
| Anthracene | 21.02 | | 1.0000 | 1.0004 | +0.5 | 1.14E+07 | - | 1.23 | 161 | 6.27E+04 | 3.65000 | |
| Fluoranthene | 24.00 | | 1.0000 | 1.0000 | 0 | 2.76E+07 | - | 0.92 | 326 | 4.94E+04 | 2.46000 | |
| Pyrene | 24.58 | B | 1.0000 | 1.0000 | 0 | 1.25E+07 | - | 0.98 | 126 | 4.94E+04 | 2.16000 | |
| Benzo(a)Anthracene | 27.68 | B | 1.0000 | 1.0003 | +0.5 | 3.73E+05 | - | 1.00 | 7.99 | 2.02E+04 | 2.35000 | |
| Chrysene | 27.78 | B | 1.0003 | 1.0000 | -0.5 | 7.84E+05 | - | 1.01 | 15.1 | 2.02E+04 | 2.34000 | |
| Benzo(b)Fluoranthene | 31.33 | B | 1.0003 | 0.9997 | -1.1 | 8.36E+05 | - | 0.98 | 12.9 | 2.47E+04 | 3.18000 | |
| Benzo(k)Fluoranthene | 31.45 | B | 1.0003 | 1.0003 | 0 | 3.32E+05 | - | 0.92 | 4.92 | 2.47E+04 | 3.46000 | |
| Benzo(e)Pyrene | 32.52 | B | 1.0000 | 1.0005 | +1.0 | 7.92E+05 | - | 0.98 | 12.7 | 2.47E+04 | 3.36000 | |
| Benzo(a)Pyrene | 32.77 | B | 1.0003 | 1.0005 | +0.4 | 2.53E+05 | - | 0.98 | 5.01 | 2.47E+04 | 5.06000 | |
| Perylene | - | | 1.0039 | 0.0000 | | 0.00E+00 | - | 1.06 | ND | 2.47E+04 | 6.27000 | |
| Indeno(1,2,3-cd)Pyrene | 39.07 | B | 1.0002 | 0.9998 | -0.9 | 2.36E+05 | - | 0.92 | 8.64 | 1.50E+04 | 8.60000 | |
| Dibenzo(a,h)Anthracene | - | | 0.9998 | 0.0000 | | 0.00E+00 | - | 0.94 | ND | 1.18E+04 | 9.41000 | |
| Benzo(ghi)Perylene | 40.94 | | 1.0002 | 1.0002 | 0 | 1.10E+06 | - | 0.97 | 26.7 | 1.50E+04 | 6.31000 | |

| | | Stats | PAH Ax | ES/SS | Checkcode: 895-251-BPM | | | | |
|-------------------------------|--------|-------|--------|--------|------------------------|----------|----|------|-------|
| Largest +ve RT shift (secs) | | | 1.0 | 2.7 | | | | | |
| Largest -ve RT shift (secs) | | | -2.3 | -0.6 | | | | | |
| Name | Actual | | Pred | Actual | Diff | | | | |
| | RT | QC | RRT | RRT | Secs | Response | Ra | RRF | Recv. |
| 13C6-Naphthalene | 10.53 | V | 0.8106 | 0.8141 | +2.7 | 1.81E+07 | - | 1.35 | 422 |
| 13C6-2-Methylnaphthalene | 13.05 | | 1.0082 | 1.0090 | +0.6 | 2.94E+06 | - | 0.99 | 93.5 |
| 13C6-Acenaphthylene | 16.00 | | 0.9723 | 0.9723 | 0 | 3.49E+06 | - | 1.37 | 69.9 |
| 13C6-Acenaphthene | 16.56 | | 1.0060 | 1.0060 | 0 | 1.70E+06 | - | 0.91 | 51.4 |
| 13C6-Fluorene | 18.15 | | 1.1025 | 1.1025 | 0 | 1.88E+06 | - | 1.09 | 47.2 |
| 13C6-Phenanthrene | 20.88 | | 1.2679 | 1.2684 | +0.5 | 3.55E+06 | - | 1.91 | 51 |
| 13C6-Anthracene | 21.01 | | 1.2766 | 1.2766 | 0 | 2.30E+06 | - | 1.35 | 46.7 |
| 13C6-Fluoranthene | 24.00 | | 0.9782 | 0.9782 | 0 | 3.69E+06 | - | 1.23 | 74.3 |
| 13C3-Pyrene | 24.58 | | 1.0020 | 1.0020 | 0 | 4.04E+06 | - | 1.23 | 80.9 |
| 13C6-Benzo (a) Anthracene | 27.67 | | 1.1278 | 1.1278 | 0 | 1.86E+06 | - | 0.86 | 53.3 |
| 13C6-Chrysene | 27.78 | | 1.1321 | 1.1324 | +0.4 | 2.07E+06 | - | 1.19 | 43 |
| 13C6-Benzo (b) Fluoranthene | 31.34 | | 0.9600 | 0.9602 | +0.4 | 2.65E+06 | - | 1.28 | 108 |
| 13C6-Benzo (k) Fluoranthene | 31.44 | | 0.9634 | 0.9634 | 0 | 2.94E+06 | - | 1.82 | 84.1 |
| 13C4-Benzo (e) Pyrene | 32.50 | | 0.9961 | 0.9958 | -0.6 | 2.55E+06 | - | 1.56 | 84.9 |
| 13C4-Benzo (a) Pyrene | 32.75 | | 1.0031 | 1.0034 | +0.6 | 2.06E+06 | - | 1.23 | 87.2 |
| dl2-Perylene | 33.00 | | 1.0112 | 1.0112 | 0 | 1.50E+06 | - | 1.13 | 69.3 |
| 13C6-Indeno (1,2,3-cd) Pyrene | 39.08 | | 1.1967 | 1.1973 | +1.2 | 1.19E+06 | - | 0.85 | 73 |
| 13C6-Dibenzo (ah) Anthracene | 39.29 | | 1.2035 | 1.2038 | +0.6 | 1.00E+06 | - | 0.94 | 55.3 |
| 13C12-Benzo (ghi) Perylene | 40.94 | | 1.2536 | 1.2542 | +1.2 | 1.70E+06 | - | 1.33 | 66.5 |
| | | | | | | | | | |
| AS--Anthracene FS | 20.96 | V | 1.2733 | 1.2733 | 0 | 1.79E+06 | - | 1.17 | 41.7 |
| | | | | | | | | | |
| SS-Fluorene | 18.06 | | 0.9951 | 0.9951 | 0 | 1.66E+06 | - | 1.00 | 88.2 |
| SS-Terphenyl | 24.95 | V | 1.0396 | 1.0396 | 0 | 1.74E+06 | - | 0.79 | 59.4 |
| | | | | | | | | | |
| JS-Methylnaphthalene | 12.93 | | - | - | - | 3.17E+06 | - | - | - |
| JS-Acenaphthene | 16.46 | | - | - | - | 3.65E+06 | - | - | - |
| JS-Pyrene | 24.53 | | - | - | - | 4.04E+06 | - | - | - |
| JS-Benzo (a) Pyrene | 32.64 | | - | - | - | 1.92E+06 | - | - | - |
| | | | | | | | | | |

SGS ID: B9770_21382_PAH_001-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 50

Acq: 20-Sep-2024 00:52:17
User: DTF Datafile: 240919V17



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_001-D10.utp_res, saved 26-Sep-2024 13:25 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 895-251

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:27 Page 1 of 9

SGS ID: B9770_21382_PAH_001-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 50

Acq: 20-Sep-2024 00:52:17
User: DTF Datafile: 240919V17



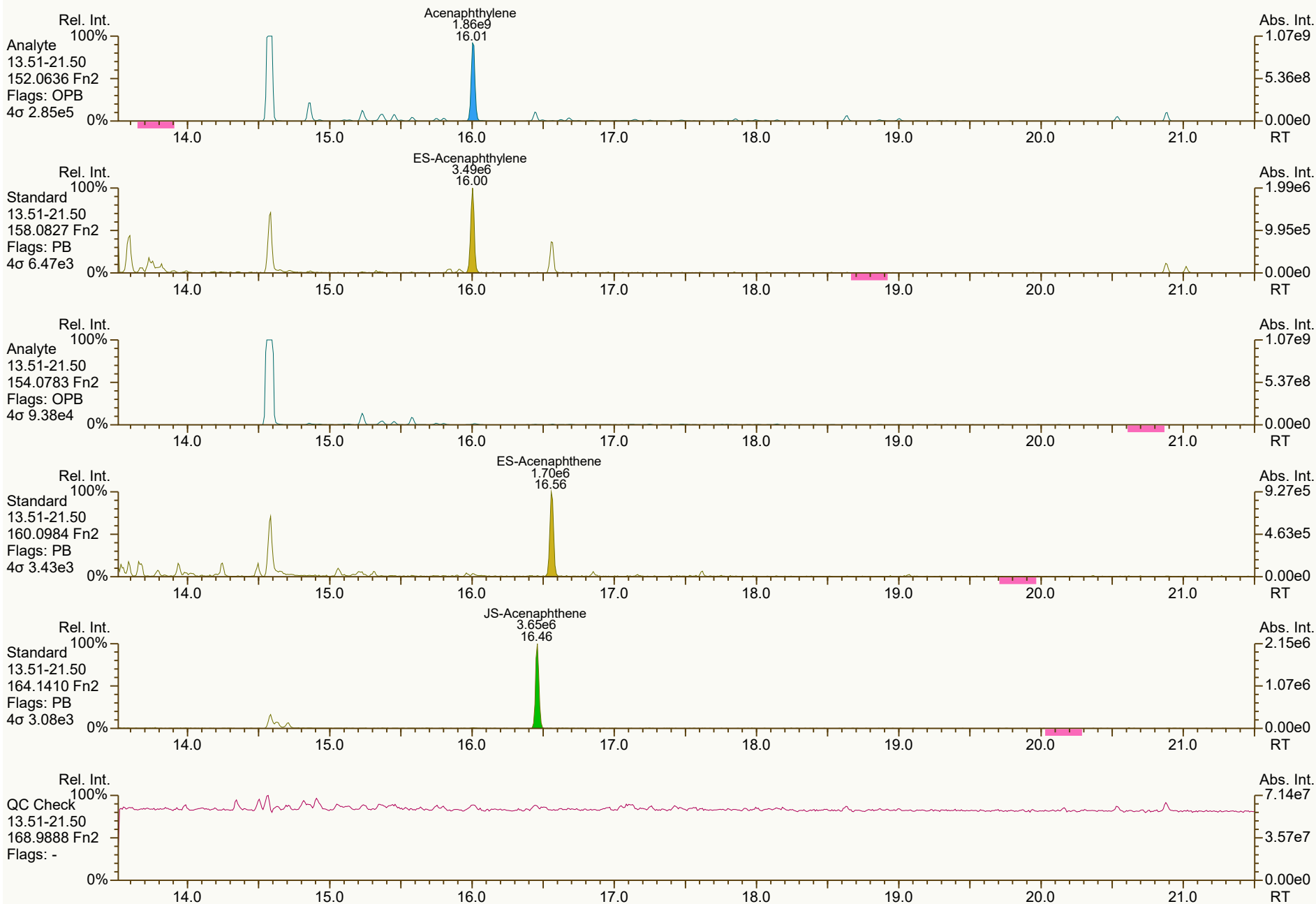
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 4148, 6664, 0555, 7322, 9008 scc: 895-251

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:38 (DTF) Printed: 26-Sep-2024 13:27 Page 2 of 9

SGS ID: B9770_21382_PAH_001-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 50

Acq: 20-Sep-2024 00:52:17
User: DTF Datafile: 240919V17



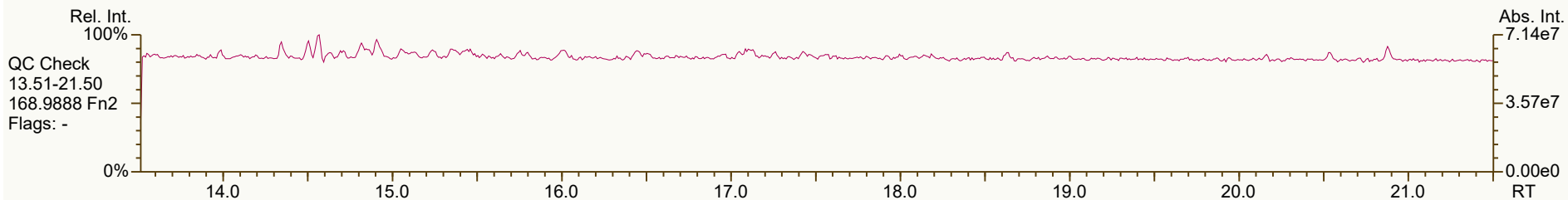
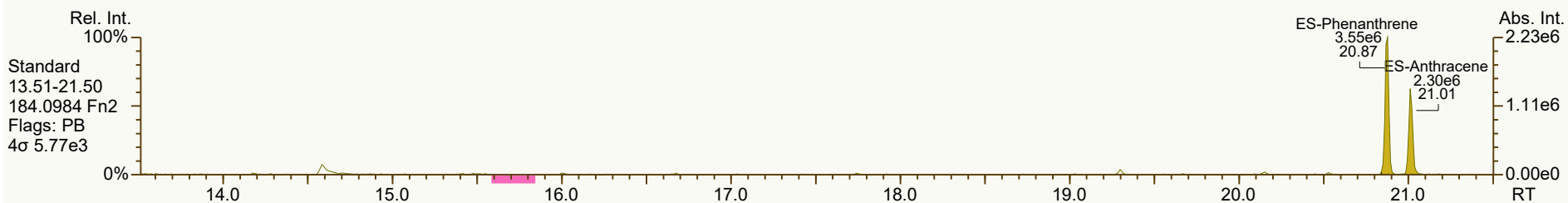
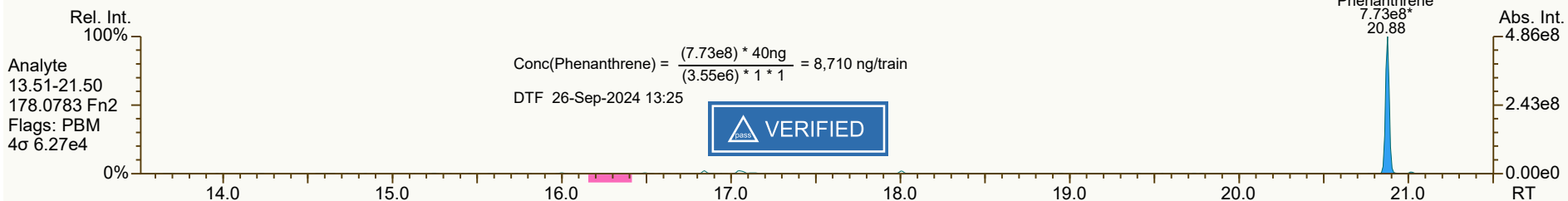
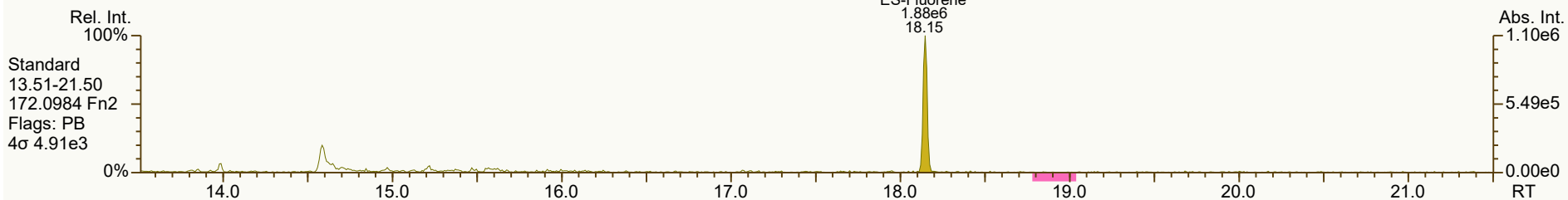
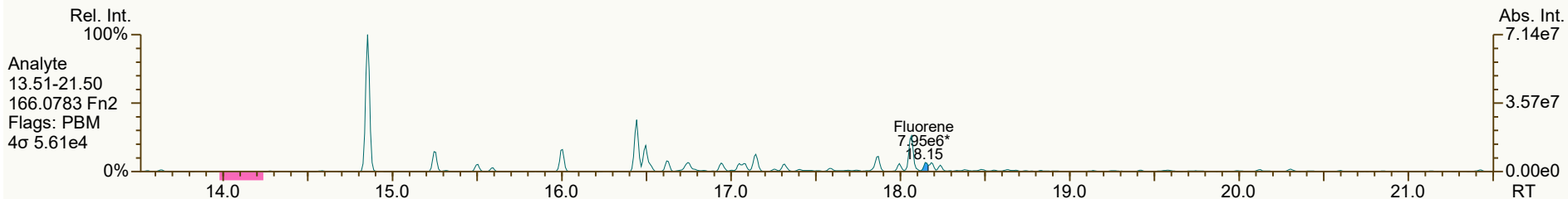
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 6119, 6477, 3205, 1942, 7796 scc: 895-251

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:37 Printed: 26-Sep-2024 13:27 Page 3 of 9

SGS ID: B9770_21382_PAH_001-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 50

Acq: 20-Sep-2024 00:52:17
User: DTF Datafile: 240919V17



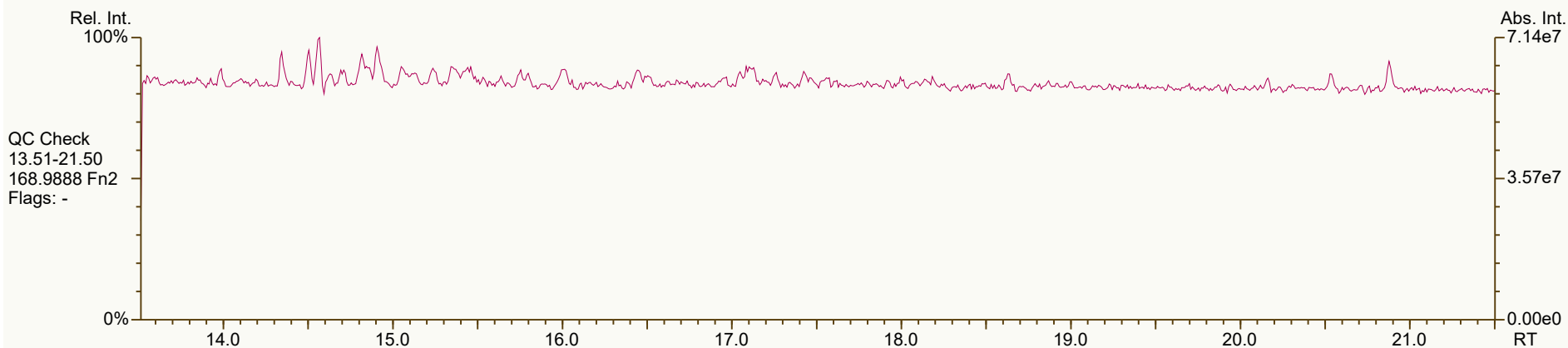
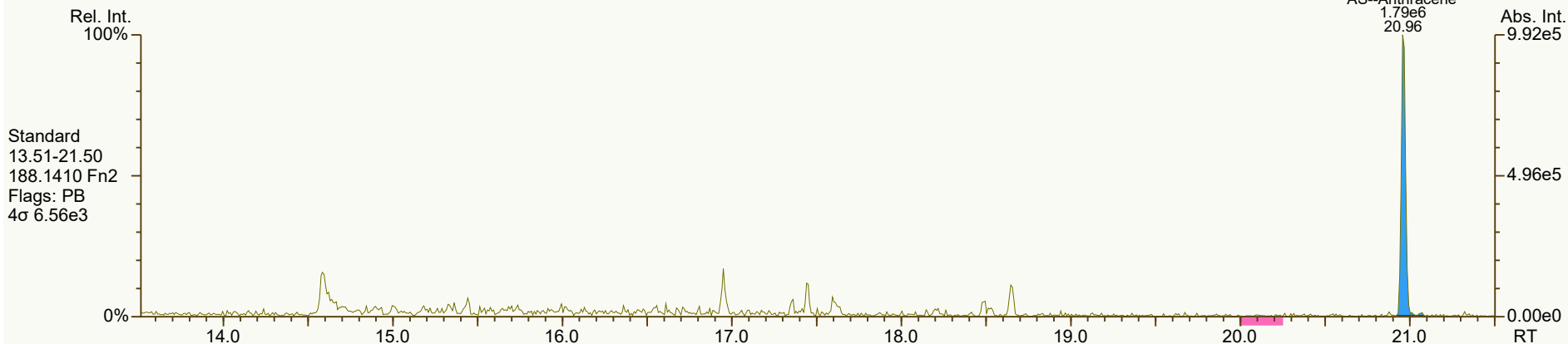
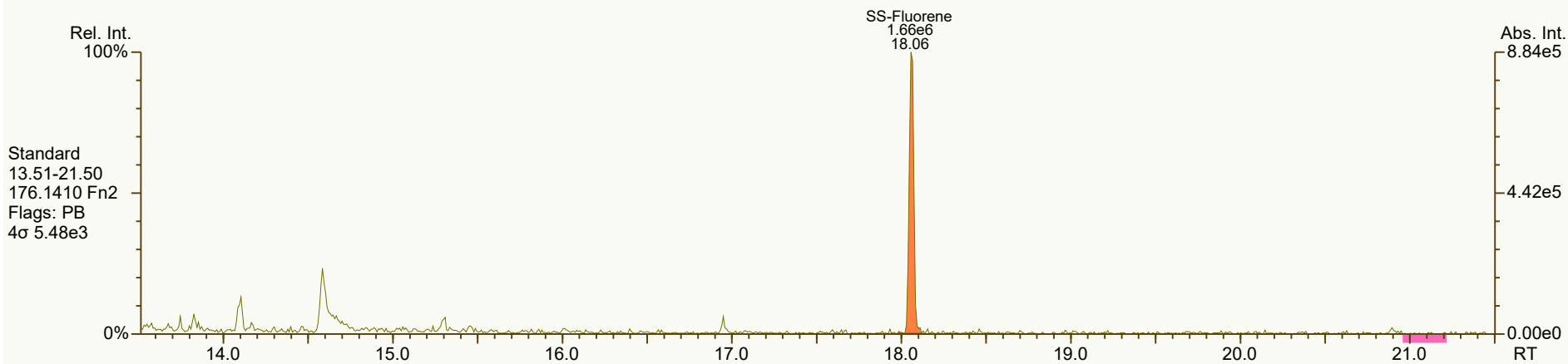
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 3233, 2915, 2875, 6563 scc: 895-251

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:38 (DTF) Printed: 26-Sep-2024 13:27 Page 4 of 9

SGS ID: B9770_21382_PAH_001-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 50

Acq: 20-Sep-2024 00:52:17
User: DTF Datafile: 240919V17



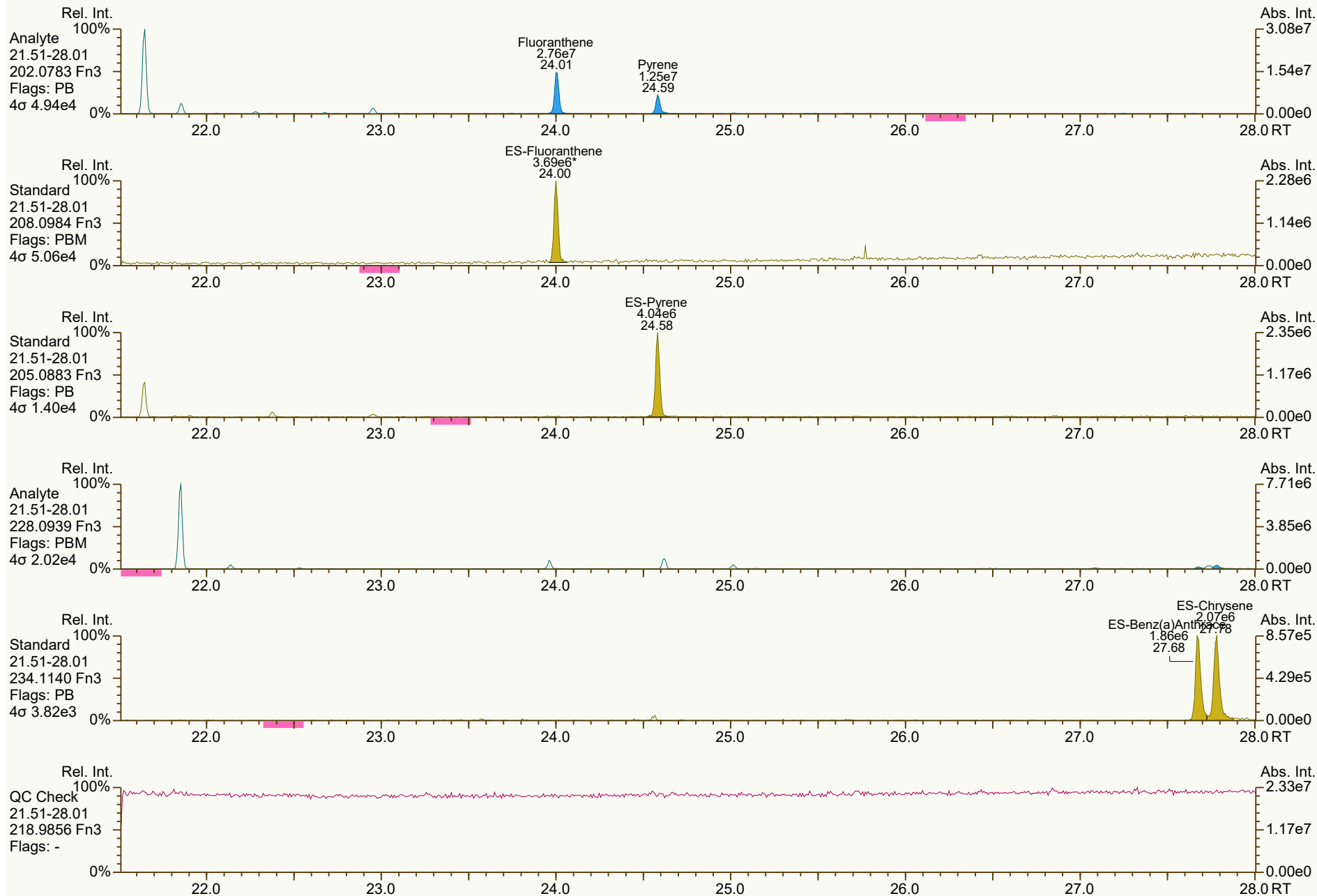
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:37 Printed: 26-Sep-2024 13:27 Page 5 of 9

SGS ID: B9770_21382_PAH_001-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 50

Acq: 20-Sep-2024 00:52:17
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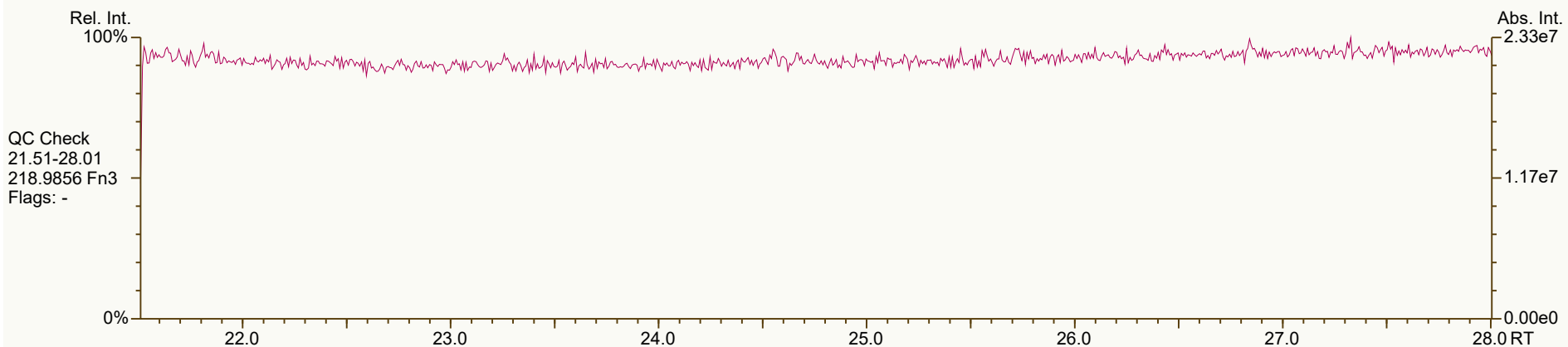
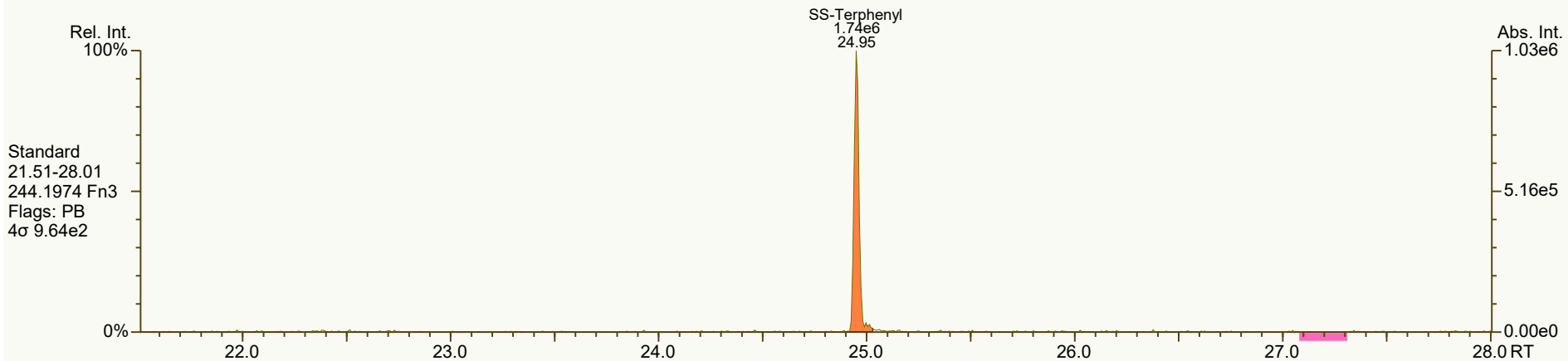
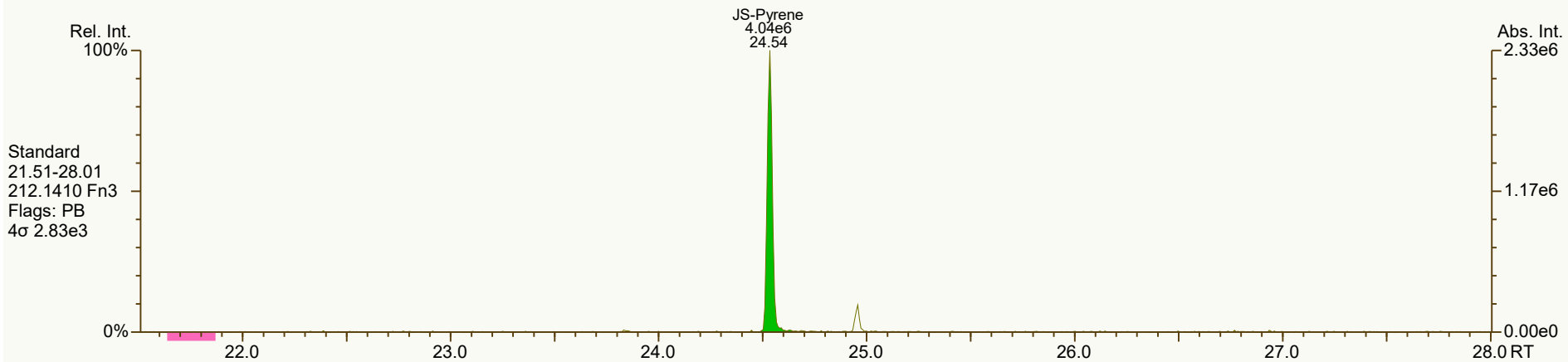
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 6126, 1096, 0120, 6450, 9496 scc: 895-251

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:38 (DTF) Printed: 26-Sep-2024 13:27 Page 6 of 9

SGS ID: B9770_21382_PAH_001-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 50

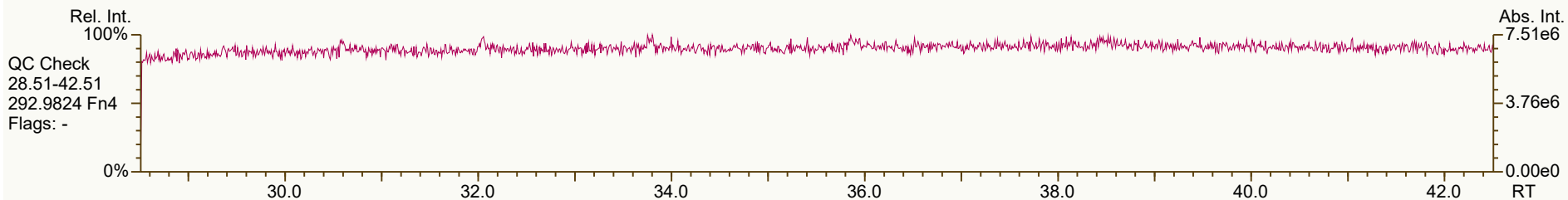
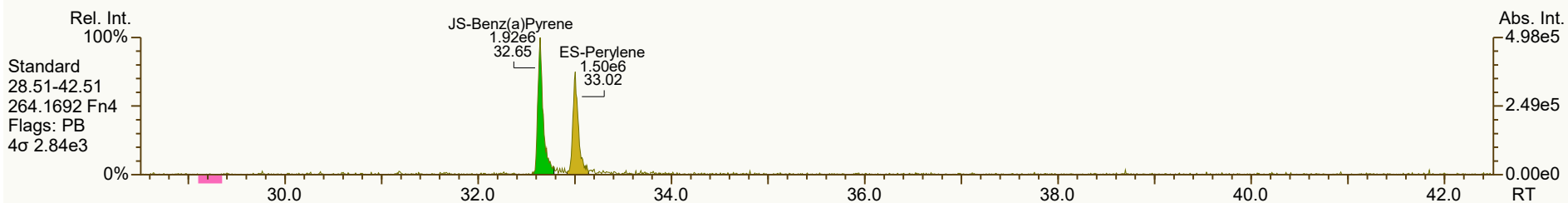
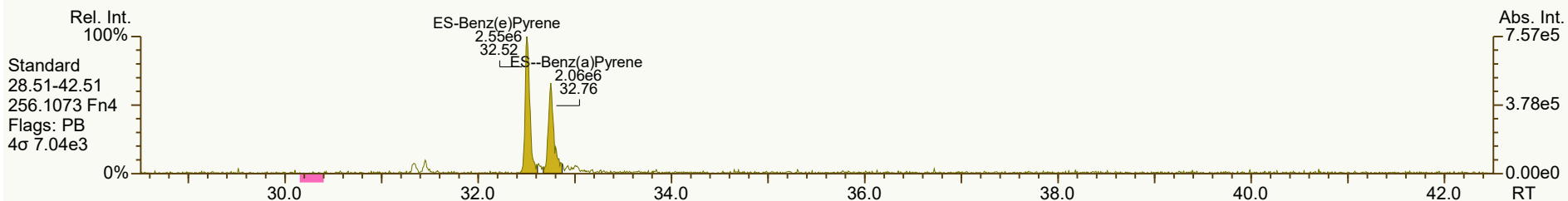
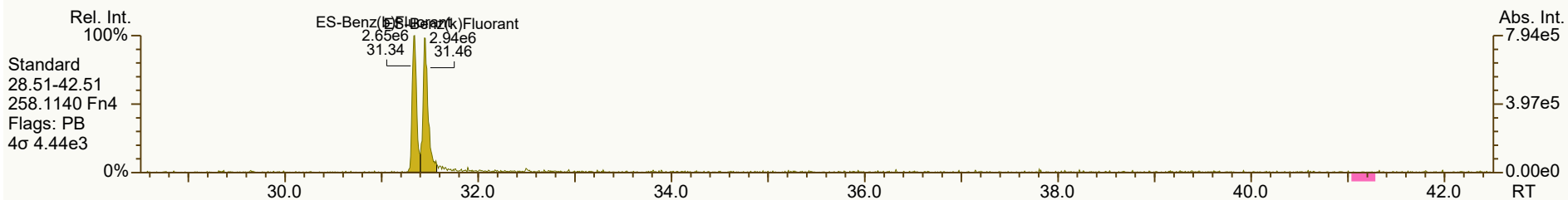
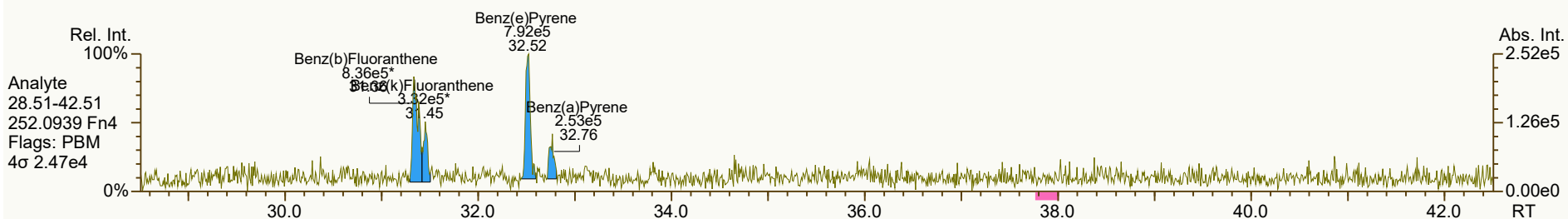
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SGS ID: B9770_21382_PAH_001-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 50

Acq: 20-Sep-2024 00:52:17
User: DTF Datafile: 240919V17



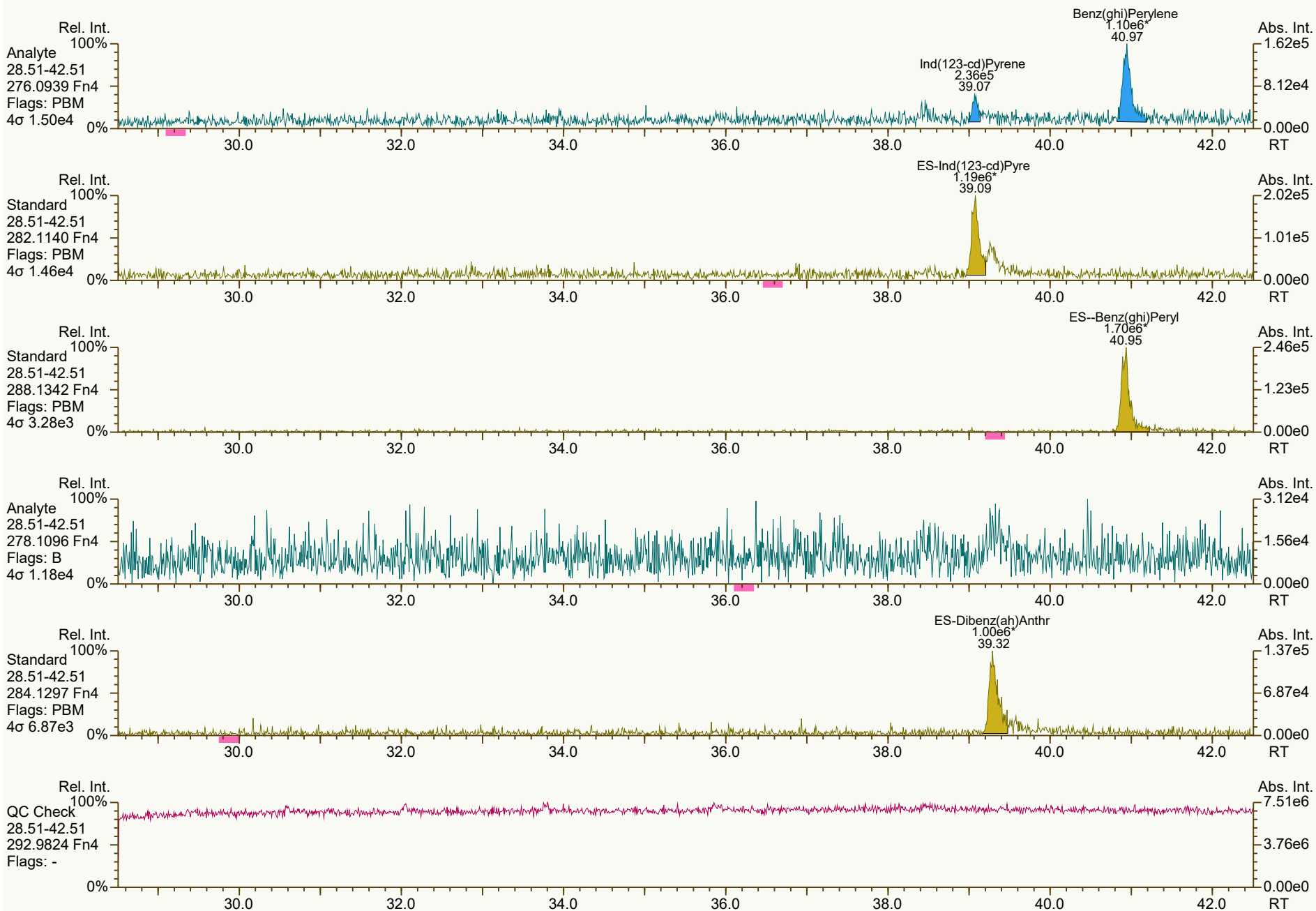
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 6079, 2255, 0224, 5172 scc: 895-251

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:38 (DTF) Printed: 26-Sep-2024 13:27 Page 8 of 9

SGS ID: B9770_21382_PAH_001-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 50

Acq: 20-Sep-2024 00:52:17
User: DTF Datafile: 240919V17



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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 3168, 6546, 6721, 9155, 9553 scc: 895-251

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:38 (DTF) Printed: 26-Sep-2024 13:27 Page 9 of 9

Datafile: 240919V18
Acquired: 20 Sep 2024 01:38:57

Client ID: Test#1 Mill On
Lab ID: B9770_21382_PAH_002-D10

Wt/Vol: 1.00 Train
J Level: 4 ng/Train

MM6_PAH_ICAL_05MAR2024
Nominal ES spike: 40 ng

| Stats | PAH Ax | ES/SS |
|-----------------------------|--------|-------|
| Largest +ve RT shift (secs) | 1.6 | 1.8 |
| Largest -ve RT shift (secs) | -0.5 | 0.0 |

Checkcode: 497-948-DRH

| Name | Actual | | Pred | Actual | Diff | | Conc | | | | |
|--------------------------|--------|-----|--------|--------|------|----------|------|------|----------|----------|----------|
| | RT | QC | RRT | RRT | Secs | Response | Ra | RRF | ng/Train | Noise | DL |
| Naphthalene | 10.49 | E | 1.0005 | 1.0005 | 0 | 5.34E+08 | - | 0.99 | 12100 | 5.91E+04 | 7.66000 |
| 2-Methylnaphthalene | 13.04 | B E | 1.0004 | 1.0000 | -0.3 | 1.51E+07 | - | 1.01 | 658 | 2.92E+04 | 5.45000 |
| Acenaphthylene | 16.00 | | 1.0000 | 1.0000 | 0 | 1.67E+06 | - | 0.92 | 39.8 | 7.16E+04 | 8.03000 |
| Acenaphthene | 16.56 | B | 1.0005 | 1.0000 | -0.5 | 8.86E+05 | - | 1.01 | 31.3 | 3.92E+04 | 6.14000 |
| Fluorene | 18.15 | B | 1.0000 | 1.0000 | 0 | 1.98E+06 | - | 1.02 | 64.8 | 2.35E+04 | 3.46000 |
| Phenanthrene | 20.88 | E | 1.0004 | 1.0004 | 0 | 2.55E+07 | - | 1.00 | 504 | 3.29E+04 | 2.83000 |
| Anthracene | 21.02 | B | 1.0000 | 1.0004 | +0.5 | 1.16E+06 | - | 1.23 | 22.2 | 3.29E+04 | 2.74000 |
| Fluoranthene | 24.00 | | 1.0000 | 1.0000 | 0 | 1.11E+07 | - | 0.92 | 157 | 3.66E+04 | 2.20000 |
| Pyrene | 24.58 | B | 1.0000 | 1.0000 | 0 | 7.85E+06 | - | 0.98 | 92.9 | 3.66E+04 | 1.99000 |
| Benzo (a) Anthracene | 27.68 | B | 1.0000 | 1.0000 | 0 | 4.09E+05 | - | 1.00 | 11 | 1.35E+04 | 1.95000 |
| Chrysene | 27.78 | B | 1.0003 | 1.0000 | -0.5 | 6.38E+05 | - | 1.01 | 14.8 | 1.35E+04 | 2.08000 |
| Benzo (b) Fluoranthene | 31.34 | B | 1.0003 | 1.0003 | 0 | 4.43E+05 | - | 0.98 | 9.44 | 1.74E+04 | 2.87000 |
| Benzo (k) Fluoranthene | 31.46 | B | 1.0003 | 1.0003 | 0 | 2.95E+05 | - | 0.92 | 5.94 | 1.74E+04 | 3.32000 |
| Benzo (e) Pyrene | 32.53 | B | 1.0000 | 1.0005 | +1.0 | 7.18E+05 | - | 0.98 | 14.2 | 1.74E+04 | 2.83000 |
| Benzo (a) Pyrene | 32.78 | B | 1.0003 | 1.0005 | +0.4 | 2.20E+05 | - | 0.98 | 6.3 | 1.74E+04 | 4.86000 |
| Perylene | - | | 1.0039 | 0.0000 | | 0.00E+00 | - | 1.06 | ND | 1.74E+04 | 5.90000 |
| Indeno (1,2,3-cd) Pyrene | 39.11 | B | 1.0002 | 1.0009 | +1.6 | 2.18E+05 | - | 0.92 | 10.2 | 1.42E+04 | 11.20000 |
| Dibenzo (a,h) Anthracene | - | | 0.9998 | 0.0000 | | 0.00E+00 | - | 0.94 | ND | 9.39E+03 | 9.97000 |
| Benzo (ghi) Perylene | 40.93 | | 1.0002 | 1.0000 | -0.5 | 9.14E+05 | - | 0.97 | 30.5 | 1.42E+04 | 8.14000 |

Datafile: 240919V18

Client ID: Test#1 Mill On

Wt/Vol: 1.00 Train

MM6_PAH_ICAL_05MAR2024

Acquired: 20 Sep 2024 01:38:57

Lab ID: B9770_21382_PAH_002-D10

J Level: 4 ng/Train

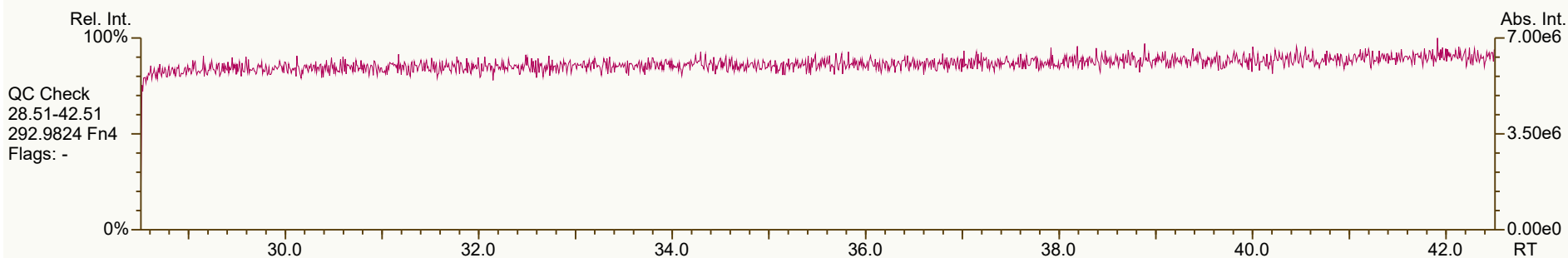
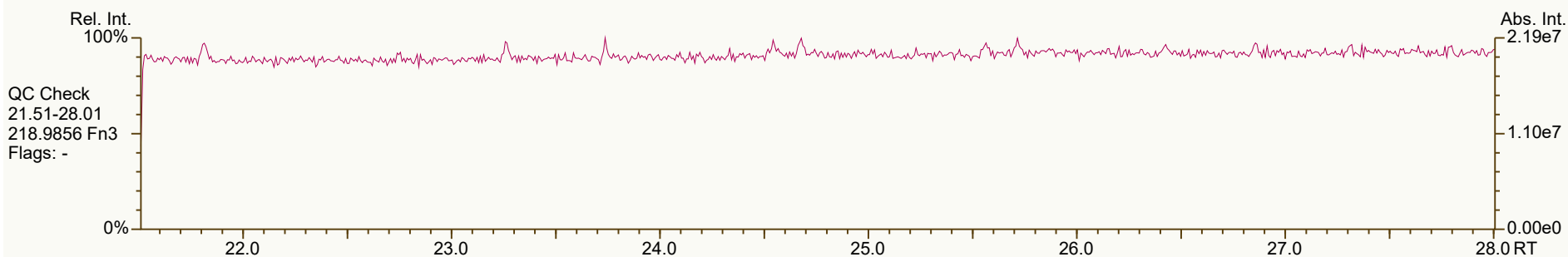
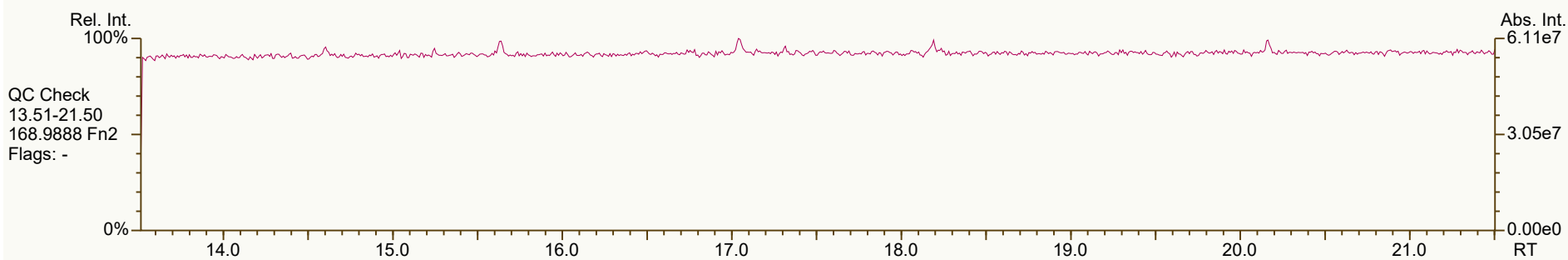
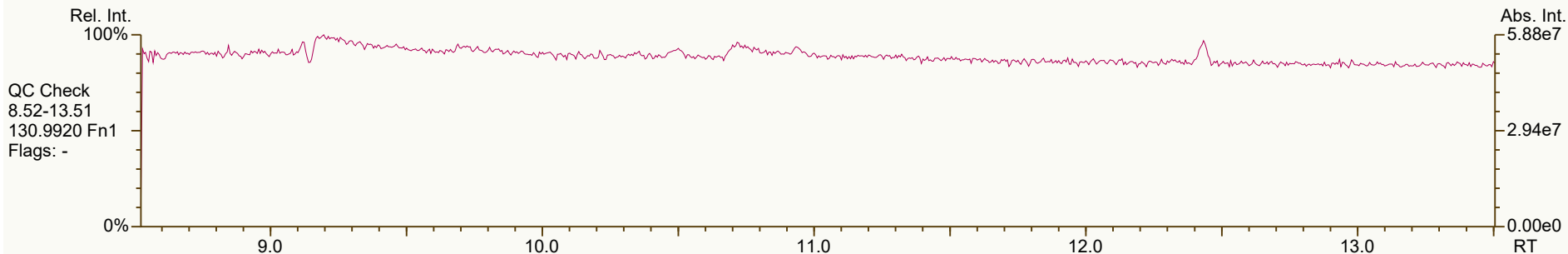
Nominal ES spike: 40 ng

| | | Stats | PAH Ax | ES/SS | | | | | | Checkcode: 497-948-DRH |
|-------------------------------|--------------|-------|-------------|---------------|--------------|----------|----|------|-------|------------------------|
| Largest +ve RT shift (secs) | | | 1.6 | 1.8 | | | | | | |
| Largest -ve RT shift (secs) | | | -0.5 | 0.0 | | | | | | |
| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Recv. | |
| 13C6-Naphthalene | 10.48 | | 0.8106 | 0.8106 | 0 | 1.78E+06 | - | 1.35 | 112 | |
| 13C6-2-Methylnaphthalene | 13.04 | | 1.0082 | 1.0086 | +0.3 | 9.11E+05 | - | 0.99 | 77.7 | |
| 13C6-Acenaphthylene | 16.00 | | 0.9723 | 0.9723 | 0 | 1.82E+06 | - | 1.37 | 107 | |
| 13C6-Acenaphthene | 16.56 | | 1.0060 | 1.0060 | 0 | 1.12E+06 | - | 0.91 | 98.9 | |
| 13C6-Fluorene | 18.15 | | 1.1025 | 1.1025 | 0 | 1.20E+06 | - | 1.09 | 88.5 | |
| 13C6-Phenanthrene | 20.87 | | 1.2679 | 1.2679 | 0 | 2.04E+06 | - | 1.91 | 85.8 | |
| 13C6-Anthracene | 21.01 | | 1.2766 | 1.2766 | 0 | 1.70E+06 | - | 1.35 | 101 | |
| 13C6-Fluoranthene | 24.00 | | 0.9782 | 0.9782 | 0 | 3.09E+06 | - | 1.23 | 122 | |
| 13C3-Pyrene | 24.58 | V | 1.0020 | 1.0020 | 0 | 3.45E+06 | - | 1.23 | 135 | |
| 13C6-Benzo (a) Anthracene | 27.68 | | 1.1278 | 1.1281 | +0.4 | 1.48E+06 | - | 0.86 | 83 | |
| 13C6-Chrysene | 27.78 | | 1.1321 | 1.1324 | +0.4 | 1.71E+06 | - | 1.19 | 69.7 | |
| 13C6-Benzo (b) Fluoranthene | 31.33 | V | 0.9600 | 0.9602 | +0.4 | 1.91E+06 | - | 1.28 | 176 | |
| 13C6-Benzo (k) Fluoranthene | 31.45 | V | 0.9634 | 0.9639 | +1.0 | 2.17E+06 | - | 1.82 | 140 | |
| 13C4-Benzo (e) Pyrene | 32.51 | V | 0.9961 | 0.9964 | +0.6 | 2.08E+06 | - | 1.56 | 156 | |
| 13C4-Benzo (a) Pyrene | 32.76 | V | 1.0031 | 1.0039 | +1.6 | 1.42E+06 | - | 1.23 | 136 | |
| dl2-Perylene | 33.01 | | 1.0112 | 1.0117 | +1.0 | 1.05E+06 | - | 1.13 | 110 | |
| 13C6-Indeno (1,2,3-cd) Pyrene | 39.08 | | 1.1967 | 1.1976 | +1.8 | 9.33E+05 | - | 0.85 | 129 | |
| 13C6-Dibenzo (ah) Anthracene | 39.30 | | 1.2035 | 1.2043 | +1.6 | 8.52E+05 | - | 0.94 | 106 | |
| 13C12-Benzo (ghi) Perylene | 40.93 | | 1.2536 | 1.2542 | +1.2 | 1.24E+06 | - | 1.33 | 109 | |
| | | | | | | | | | | |
| AS--Anthracene FS | 20.97 | | 1.2733 | 1.2738 | +0.5 | 1.36E+06 | - | 1.17 | 93 | |
| | | | | | | | | | | |
| SS-Fluorene | 18.06 | | 0.9951 | 0.9951 | 0 | 1.07E+06 | - | 1.00 | 88.8 | |
| SS-Terphenyl | 24.95 | V | 1.0396 | 1.0396 | 0 | 1.38E+06 | - | 0.79 | 56.2 | |
| | | | | | | | | | | |
| JS-Methylnaphthalene | 12.93 | | - | - | - | 1.18E+06 | - | - | - | |
| JS-Acenaphthene | 16.46 | | - | - | - | 1.24E+06 | - | - | - | |
| JS-Pyrene | 24.54 | | - | - | - | 2.06E+06 | - | - | - | |
| JS-Benzo (a) Pyrene | 32.63 | | - | - | - | 8.51E+05 | - | - | - | |
| | | | | | | | | | | |

SGS ID: B9770_21382_PAH_002-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 51

Acq: 20-Sep-2024 01:38:57
User: DTF Datafile: 240919V18



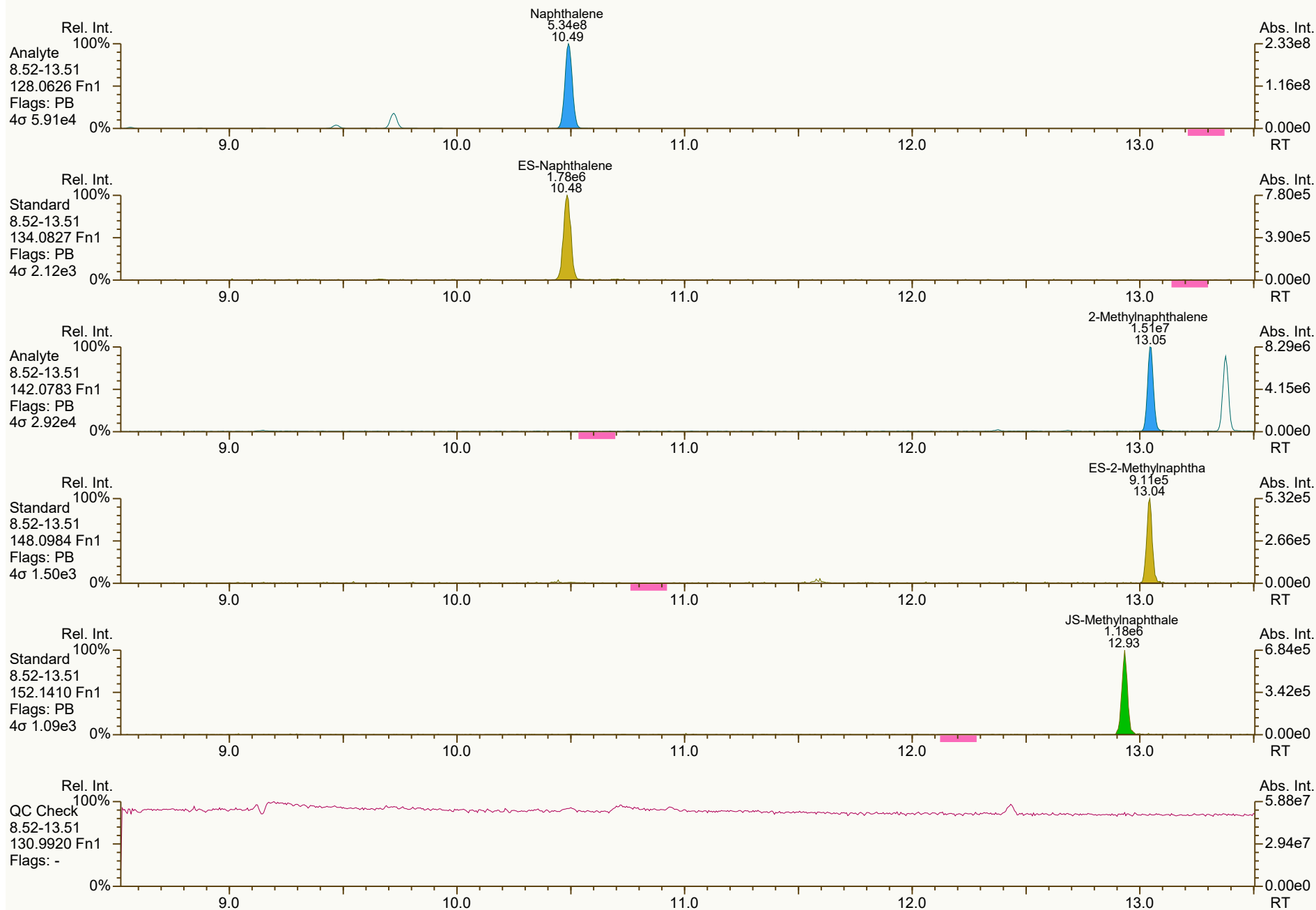
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 497-948

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:27 Page 1 of 9

SGS ID: B9770_21382_PAH_002-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 51

Acq: 20-Sep-2024 01:38:57
User: DTF Datafile: 240919V18



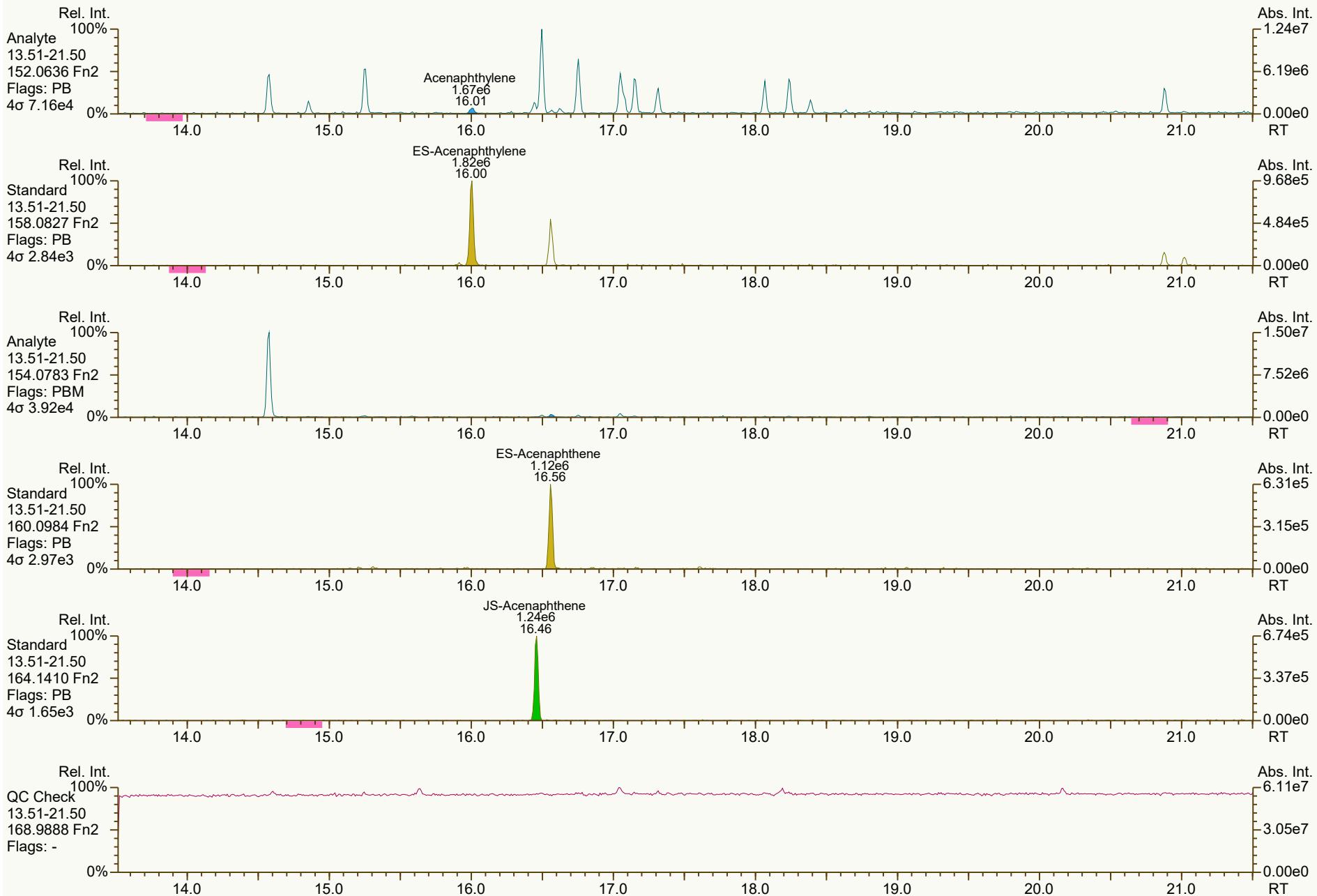
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 9756, 6066, 3188, 3010, 2173 scc: 497-948

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:39 Printed: 26-Sep-2024 13:27 Page 2 of 9

SGS ID: B9770_21382_PAH_002-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 51

Acq: 20-Sep-2024 01:38:57
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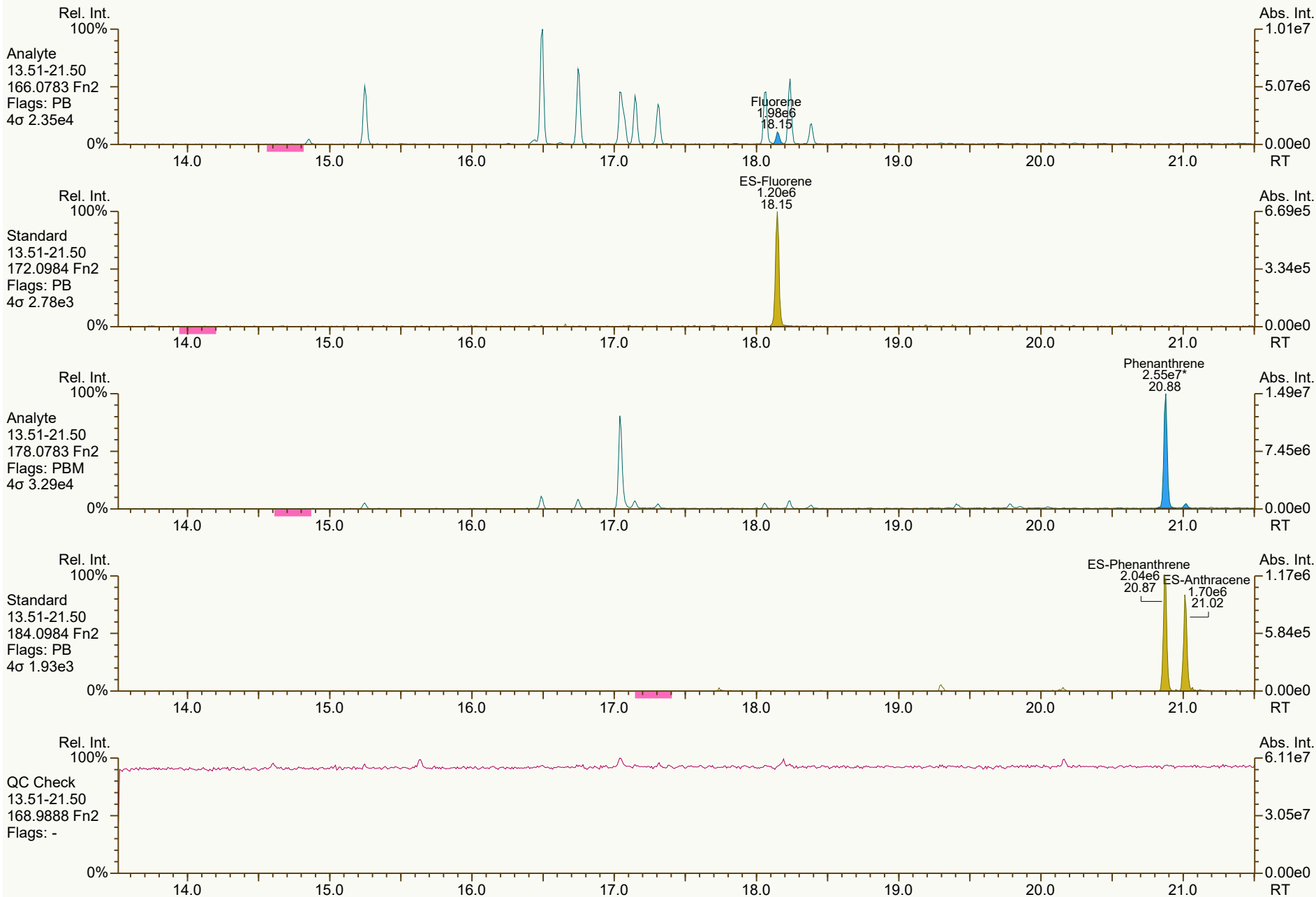
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Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:39 (DTF) Printed: 26-Sep-2024 13:27 Page 3 of 9

SGS ID: B9770_21382_PAH_002-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 51

Acq: 20-Sep-2024 01:38:57
User: DTF Datafile: 240919V18



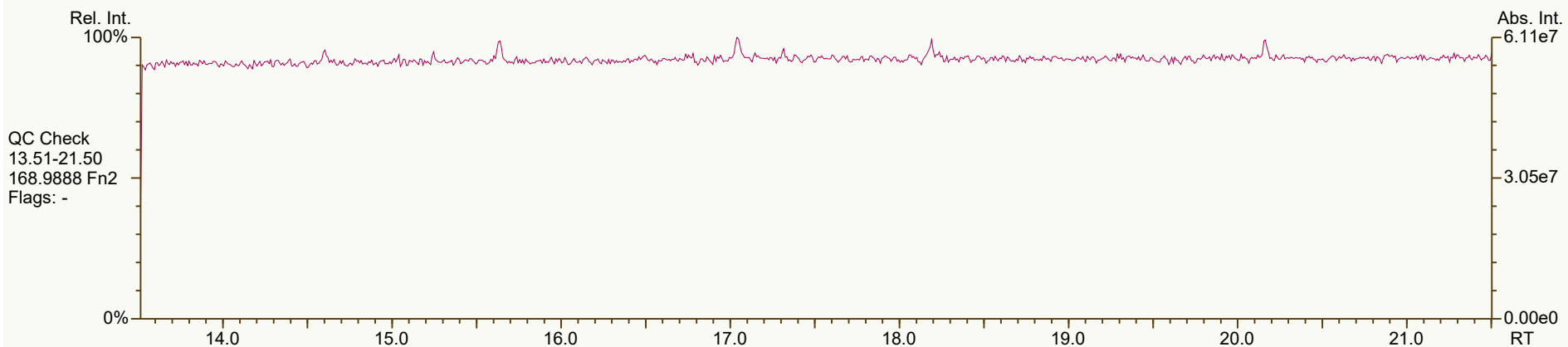
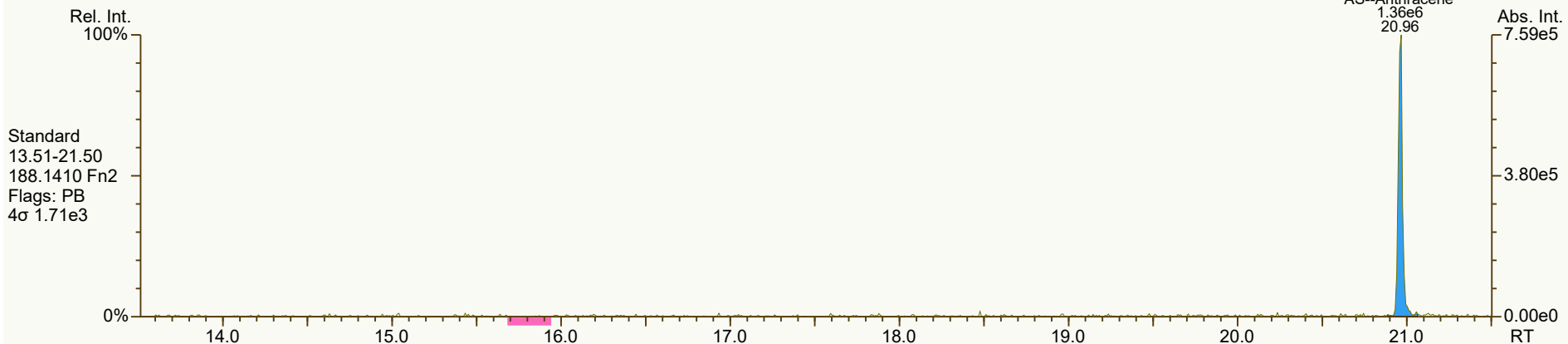
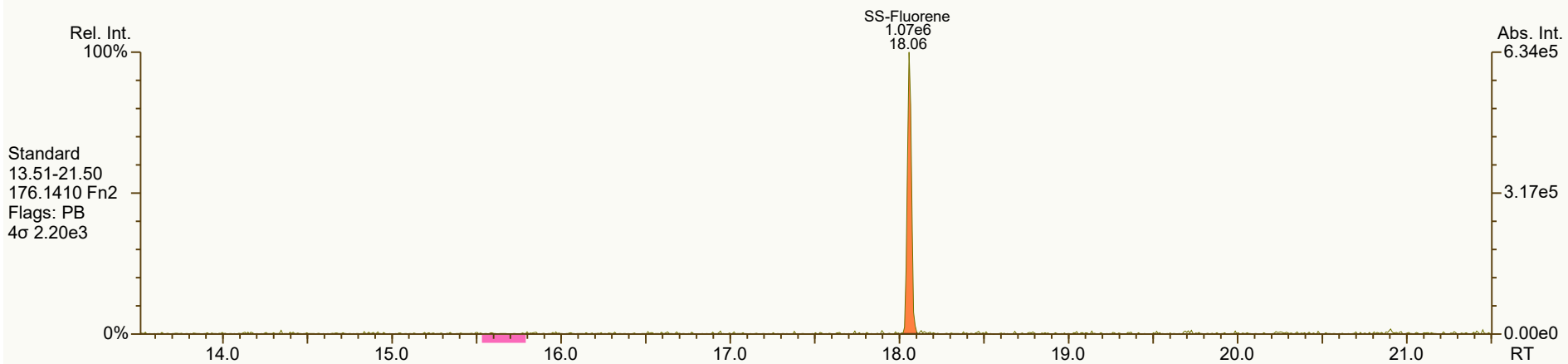
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 2127, 2899, 4416, 3320 scc: 497-948

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:39 (DTF) Printed: 26-Sep-2024 13:27 Page 4 of 9

SGS ID: B9770_21382_PAH_002-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 51

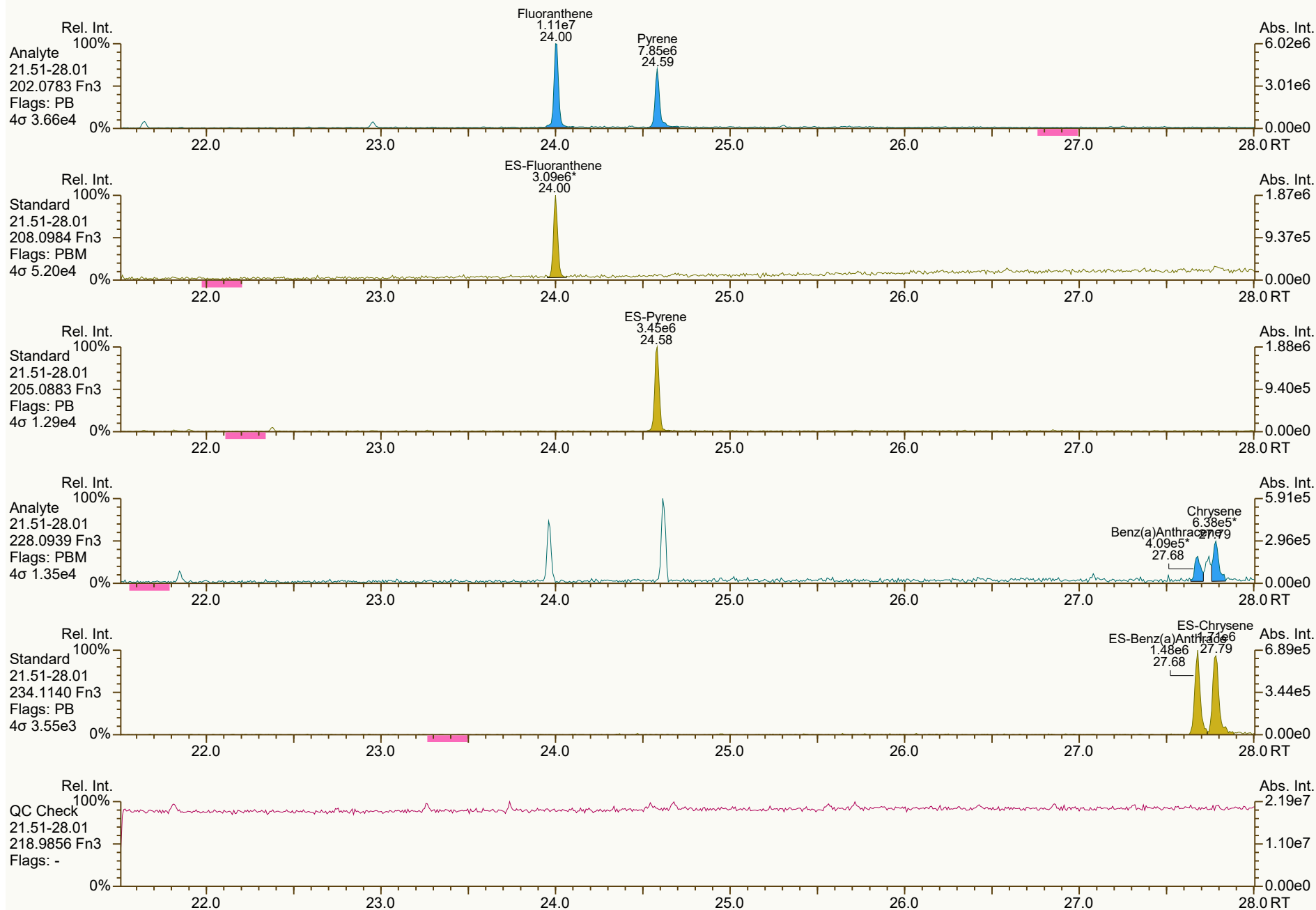
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User: DTF Datafile: 240919V18



SGS ID: B9770_21382_PAH_002-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 51

Acq: 20-Sep-2024 01:38:57
User: DTF Datafile: 240919V18



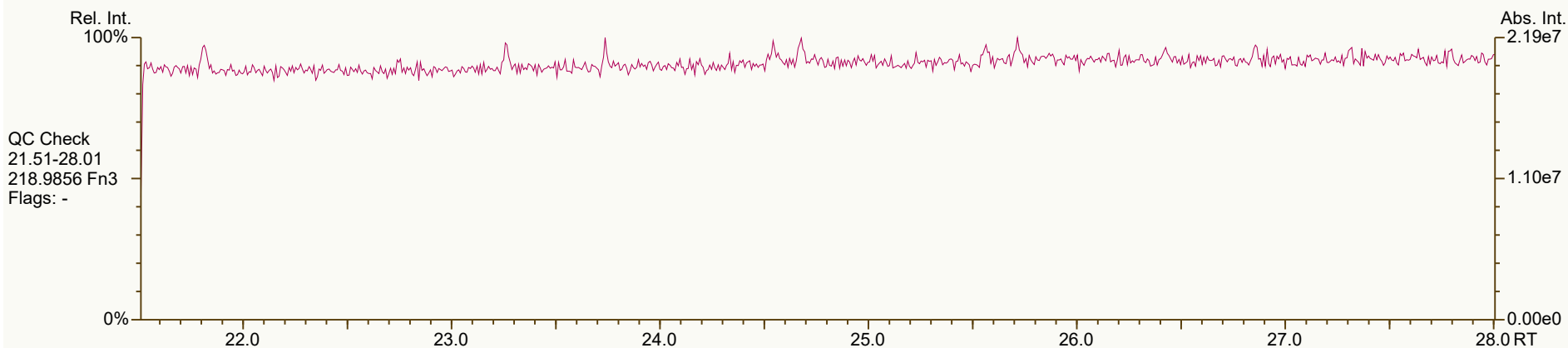
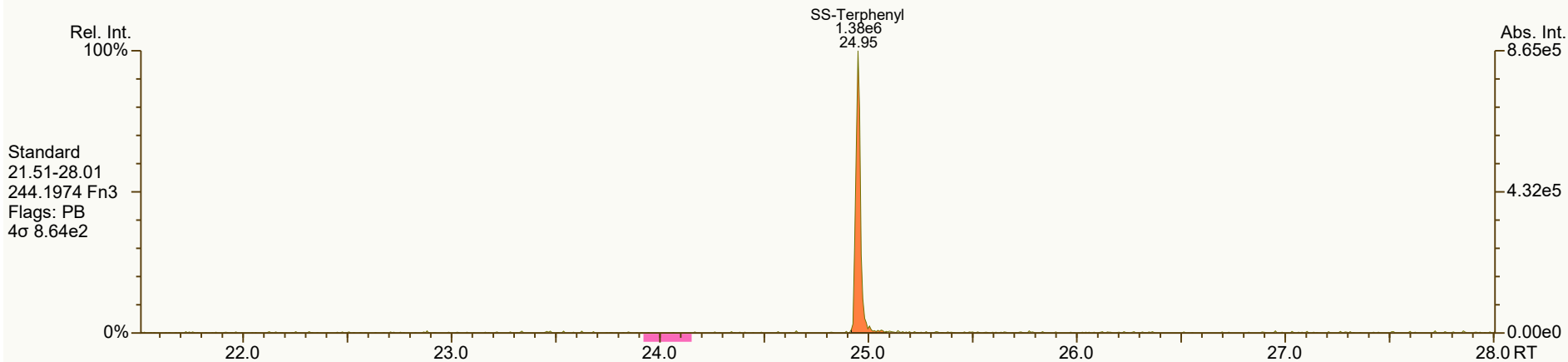
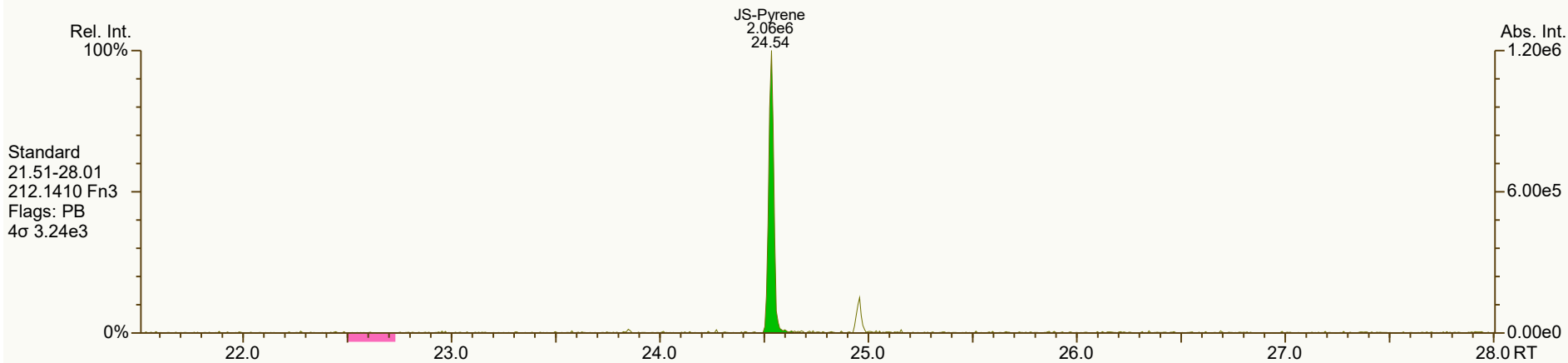
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 5561, 2803, 3601, 1812, 6806 scc: 497-948

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:40 (DTF) Printed: 26-Sep-2024 13:27 Page 6 of 9

SGS ID: B9770_21382_PAH_002-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 51

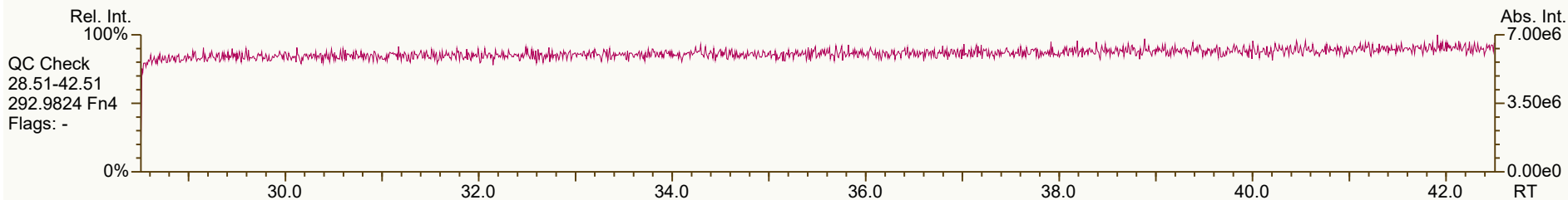
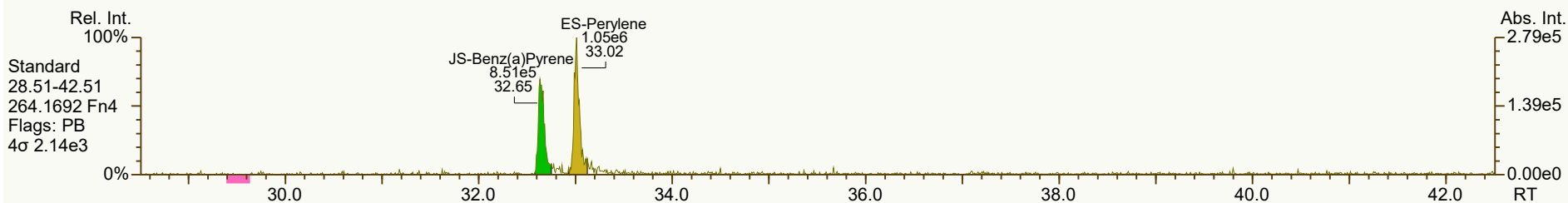
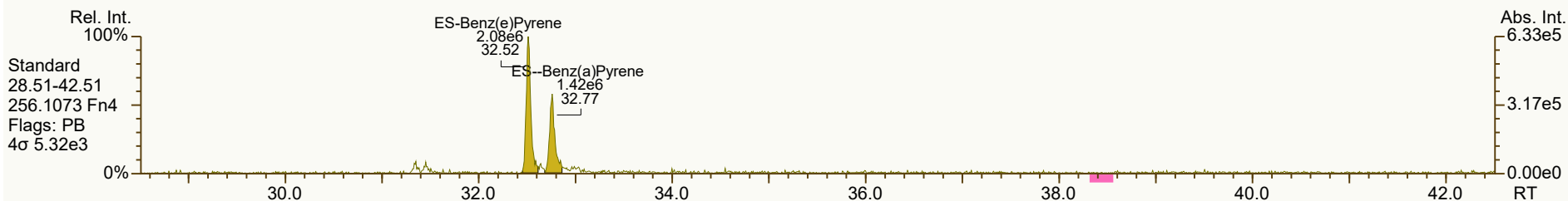
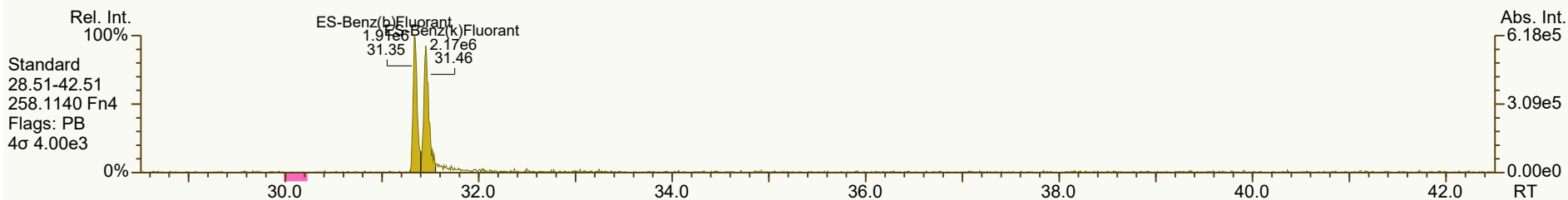
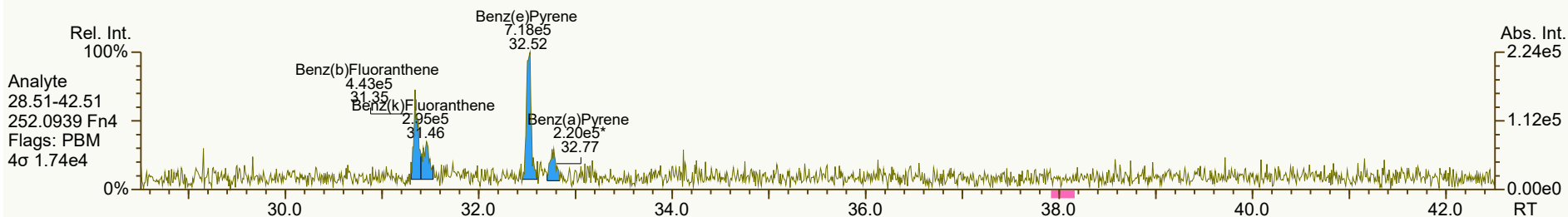
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User: DTF Datafile: 240919V18



SGS ID: B9770_21382_PAH_002-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 51

Acq: 20-Sep-2024 01:38:57
User: DTF Datafile: 240919V18



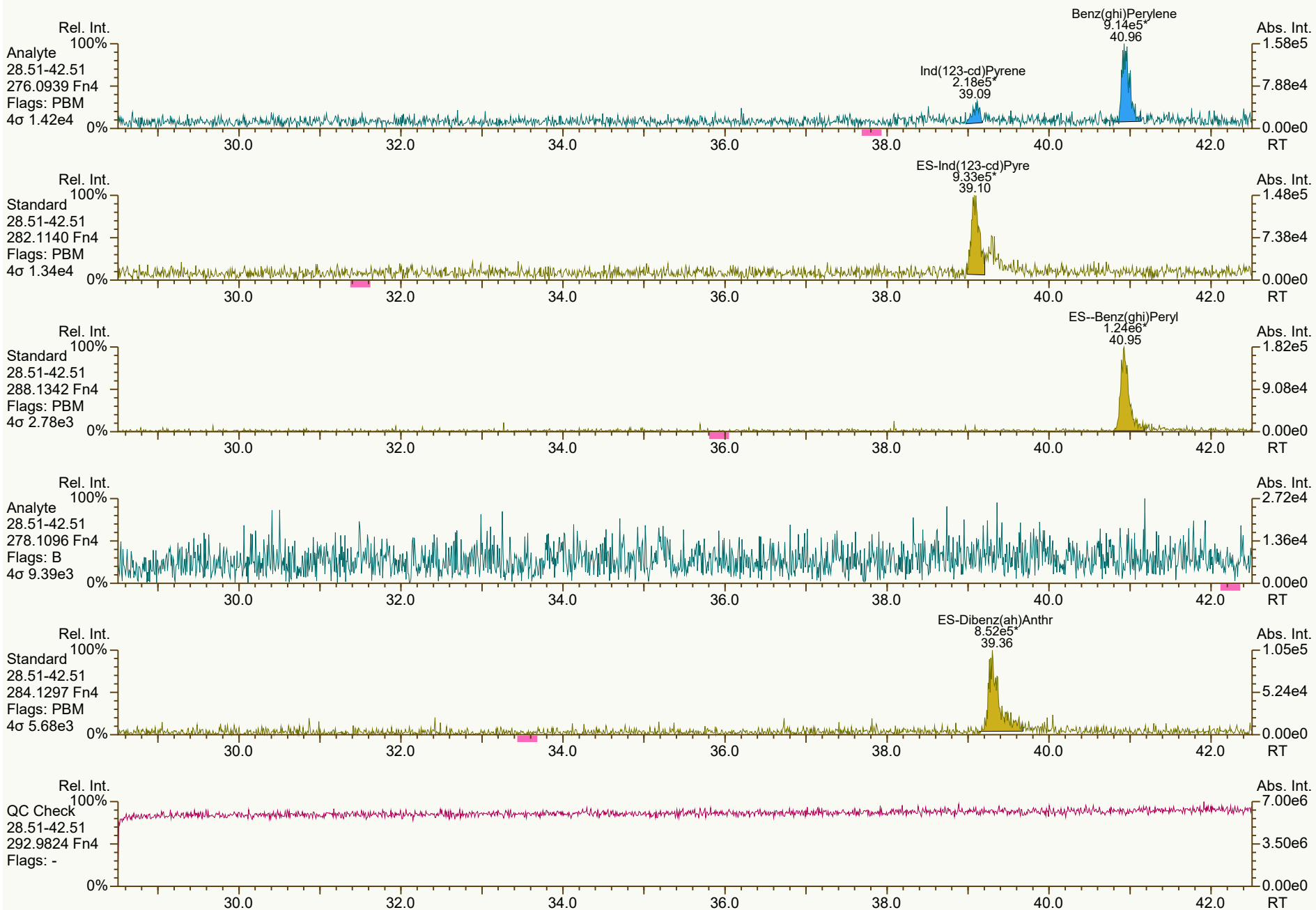
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 7542, 4816, 6080, 4979 scc: 497-948

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:40 (DTF) Printed: 26-Sep-2024 13:27 Page 8 of 9

SGS ID: B9770_21382_PAH_002-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 51

Acq: 20-Sep-2024 01:38:57
User: DTF Datafile: 240919V18



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_002-D10.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 2286, 3696, 4516, 1033, 0568 scc: 497-948

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:40 (DTF) Printed: 26-Sep-2024 13:27 Page 9 of 9

Datafile: 240925V04

Client ID: Test#2 Mill On

Wt/Vol: 1.00 Train

MM6_PAH_ICAL_05MAR2024

Acquired: 25 Sep 2024 12:40:27

Lab ID: B9770_21382_PAH_003-AR1-D10

J Level: 4 ng/Train

Nominal ES spike: 40 ng

| | | Stats | PAH Ax | ES/SS | | | | | | | | Checkcode: 821-451-CGF |
|-----------------------------|--------|-------|--------|--------|------|----------|----|------|----------|----------|---------|------------------------|
| Largest +ve RT shift (secs) | | | 0.5 | 2.2 | | | | | | | | |
| Largest -ve RT shift (secs) | | | -1.0 | -0.6 | | | | | | | | |
| Name | Actual | | Pred | Actual | Diff | Conc | | | | | | |
| | RT | QC | RRT | RRT | Secs | Response | Ra | RRF | ng/Train | Noise | DL | |
| Naphthalene | 10.47 | E | 1.0005 | 1.0005 | 0 | 4.96E+08 | - | 0.99 | 10200 | 4.42E+04 | 5.24000 | |
| 2-Methylnaphthalene | 13.03 | B | 1.0004 | 1.0000 | -0.3 | 1.29E+07 | - | 1.01 | 350 | 1.91E+04 | 2.12000 | |
| Acenaphthylene | 15.99 | | 1.0000 | 1.0000 | 0 | 8.74E+05 | - | 0.92 | 24 | 3.21E+04 | 4.23000 | |
| Acenaphthene | 16.55 | B | 1.0005 | 1.0005 | 0 | 4.75E+05 | - | 1.01 | 16 | 1.66E+04 | 2.62000 | |
| Fluorene | 18.14 | B | 1.0000 | 1.0005 | +0.5 | 8.64E+05 | - | 1.02 | 19.6 | 1.85E+04 | 1.85000 | |
| Phenanthrene | 20.86 | B | 1.0004 | 1.0000 | -0.5 | 2.23E+07 | - | 1.00 | 235 | 2.57E+04 | 1.23000 | |
| Anthracene | 21.01 | | 1.0000 | 1.0000 | 0 | 1.36E+06 | - | 1.23 | 13.5 | 2.57E+04 | 1.27000 | |
| Fluoranthene | 24.00 | B | 1.0000 | 1.0003 | +0.4 | 8.25E+06 | - | 0.92 | 73.6 | 1.75E+04 | 0.77300 | |
| Pyrene | 24.57 | B | 1.0000 | 1.0000 | 0 | 5.92E+06 | - | 0.98 | 50.8 | 1.75E+04 | 0.69400 | |
| Benzo (a) Anthracene | 27.67 | J B | 1.0000 | 1.0000 | 0 | 1.85E+05 | - | 1.00 | 2.3 | 1.33E+04 | 0.96800 | |
| Chrysene | 27.77 | B | 1.0003 | 1.0000 | -0.5 | 6.82E+05 | - | 1.01 | 6.93 | 1.33E+04 | 0.89200 | |
| Benzo (b) Fluoranthene | 31.34 | B | 1.0003 | 1.0003 | 0 | 3.77E+05 | - | 0.98 | 5.82 | 1.13E+04 | 1.45000 | |
| Benzo (k) Fluoranthene | 31.46 | J B | 1.0003 | 1.0005 | +0.4 | 1.84E+05 | - | 0.92 | 2.67 | 1.13E+04 | 1.58000 | |
| Benzo (e) Pyrene | 32.50 | | 1.0000 | 1.0000 | 0 | 6.49E+05 | - | 0.98 | 10.3 | 1.13E+04 | 1.54000 | |
| Benzo (a) Pyrene | 32.77 | J B | 1.0003 | 1.0003 | 0 | 1.42E+05 | - | 0.98 | 2.98 | 1.13E+04 | 2.62000 | |
| Perylene | - | | 1.0039 | 0.0000 | | 0.00E+00 | - | 1.06 | ND | 1.13E+04 | 4.32000 | |
| Indeno (1,2,3-cd) Pyrene | 39.10 | B | 1.0002 | 1.0002 | 0 | 2.46E+05 | - | 0.92 | 5.64 | 7.30E+03 | 2.75000 | |
| Dibenzo (a,h) Anthracene | - | | 0.9998 | 0.0000 | | 0.00E+00 | - | 0.94 | ND | 7.05E+03 | 3.95000 | |
| Benzo (ghi) Perylene | 40.94 | | 1.0002 | 0.9998 | -1.0 | 1.49E+06 | - | 0.97 | 25.2 | 7.30E+03 | 2.50000 | |

Datafile: 240925V04

Client ID: Test#2 Mill On

Wt/Vol: 1.00 Train

MM6_PAH_ICAL_05MAR2024

Acquired: 25 Sep 2024 12:40:27

Lab ID: B9770_21382_PAH_003-AR1-D10

J Level: 4 ng/Train

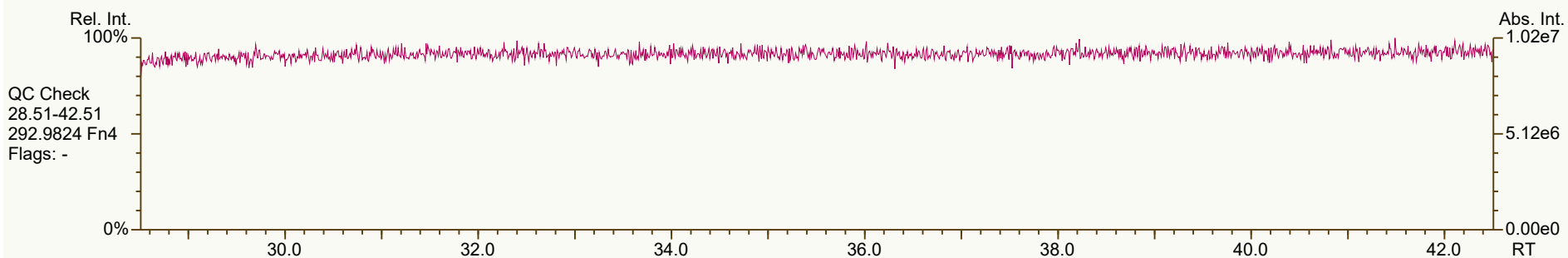
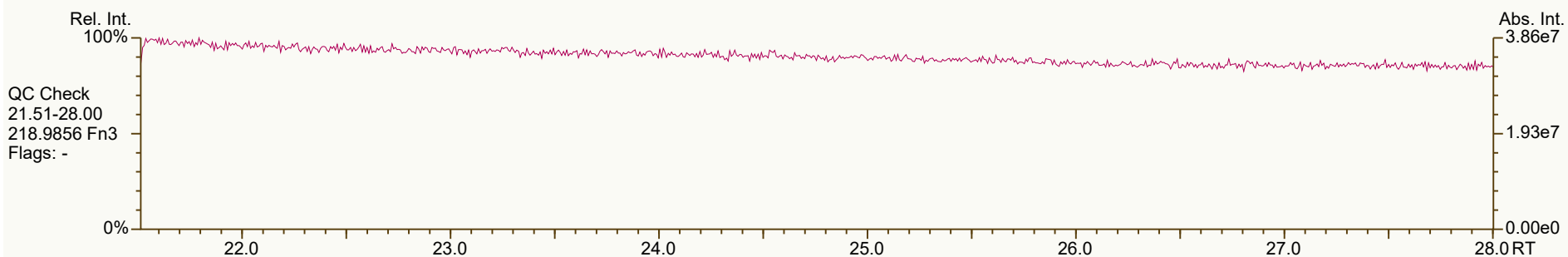
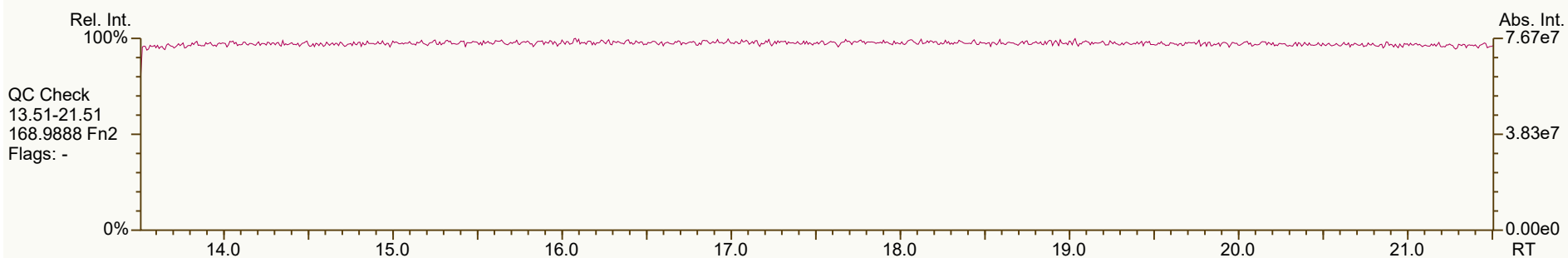
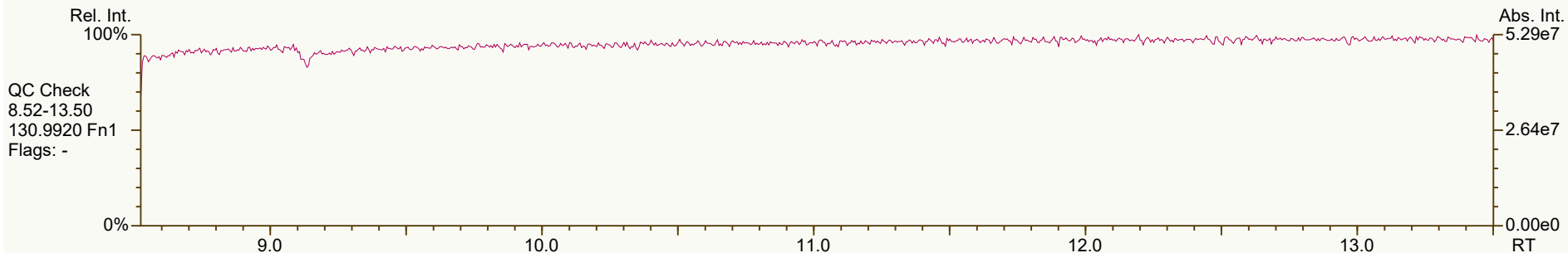
Nominal ES spike: 40 ng

| | | Stats | PAH Ax | ES/SS | Checkcode: 821-451-CGF | | | | |
|-------------------------------|--------|-------|--------|--------|------------------------|----------|----|------|-------|
| Largest +ve RT shift (secs) | | | 0.5 | 2.2 | | | | | |
| Largest -ve RT shift (secs) | | | -1.0 | -0.6 | | | | | |
| Name | Actual | | Pred | Actual | Diff | Response | Ra | RRF | Recv. |
| | RT | QC | RRT | RRT | Secs | | | | |
| 13C6-Naphthalene | 10.47 | | 0.8106 | 0.8104 | -0.2 | 1.97E+06 | - | 1.35 | 51.3 |
| 13C6-2-Methylnaphthalene | 13.03 | | 1.0082 | 1.0086 | +0.3 | 1.46E+06 | - | 0.99 | 51.8 |
| 13C6-Acenaphthylene | 15.99 | | 0.9723 | 0.9723 | 0 | 1.58E+06 | - | 1.37 | 56.1 |
| 13C6-Acenaphthene | 16.54 | | 1.0060 | 1.0060 | 0 | 1.17E+06 | - | 0.91 | 62.5 |
| 13C6-Fluorene | 18.13 | | 1.1025 | 1.1026 | +0.1 | 1.73E+06 | - | 1.09 | 77 |
| 13C6-Phenanthrene | 20.86 | | 1.2679 | 1.2686 | +0.7 | 3.81E+06 | - | 1.91 | 96.9 |
| 13C6-Anthracene | 21.01 | | 1.2766 | 1.2773 | +0.7 | 3.27E+06 | - | 1.35 | 118 |
| 13C6-Fluoranthene | 23.99 | | 0.9782 | 0.9782 | 0 | 4.90E+06 | - | 1.23 | 94.6 |
| 13C3-Pyrene | 24.57 | | 1.0020 | 1.0020 | 0 | 4.76E+06 | - | 1.23 | 91.5 |
| 13C6-Benzo (a) Anthracene | 27.67 | | 1.1278 | 1.1282 | +0.6 | 3.20E+06 | - | 0.86 | 87.9 |
| 13C6-Chrysene | 27.77 | | 1.1321 | 1.1325 | +0.6 | 3.91E+06 | - | 1.19 | 77.9 |
| 13C6-Benzo (b) Fluoranthene | 31.33 | | 0.9600 | 0.9600 | 0 | 2.64E+06 | - | 1.28 | 119 |
| 13C6-Benzo (k) Fluoranthene | 31.44 | | 0.9634 | 0.9633 | -0.2 | 3.00E+06 | - | 1.82 | 95 |
| 13C4-Benzo (e) Pyrene | 32.50 | | 0.9961 | 0.9958 | -0.6 | 2.59E+06 | - | 1.56 | 95.8 |
| 13C4-Benzo (a) Pyrene | 32.76 | | 1.0031 | 1.0036 | +1.0 | 1.94E+06 | - | 1.23 | 91.2 |
| dl2-Perylene | 33.01 | | 1.0112 | 1.0112 | 0 | 8.45E+05 | - | 1.13 | 43.3 |
| 13C6-Indeno (1,2,3-cd) Pyrene | 39.10 | | 1.1967 | 1.1978 | +2.2 | 1.91E+06 | - | 0.85 | 129 |
| 13C6-Dibenzo (ah) Anthracene | 39.32 | | 1.2035 | 1.2045 | +2.0 | 1.61E+06 | - | 0.94 | 98.4 |
| 13C12-Benzo (ghi) Perylene | 40.95 | | 1.2536 | 1.2544 | +1.6 | 2.45E+06 | - | 1.33 | 106 |
| AS--Anthracene FS | 20.95 | | 1.2733 | 1.2741 | +0.8 | 2.37E+06 | - | 1.17 | 98.3 |
| SS-Fluorene | 18.04 | | 0.9951 | 0.9951 | 0 | 1.58E+06 | - | 1.00 | 91 |
| SS-Terphenyl | 24.95 | | 1.0396 | 1.0399 | +0.4 | 3.43E+06 | - | 0.79 | 88.2 |
| JS-Methylnaphthalene | 12.92 | | - | - | - | 2.85E+06 | - | - | - |
| JS-Acenaphthene | 16.45 | | - | - | - | 2.06E+06 | - | - | - |
| JS-Pyrene | 24.52 | | - | - | - | 4.22E+06 | - | - | - |
| JS-Benzo (a) Pyrene | 32.64 | | - | - | - | 1.73E+06 | - | - | - |

SGS ID: B9770_21382_PAH_003-AR1-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 59

Acq: 25-Sep-2024 12:40:27
User: DTF Datafile: 240925V04



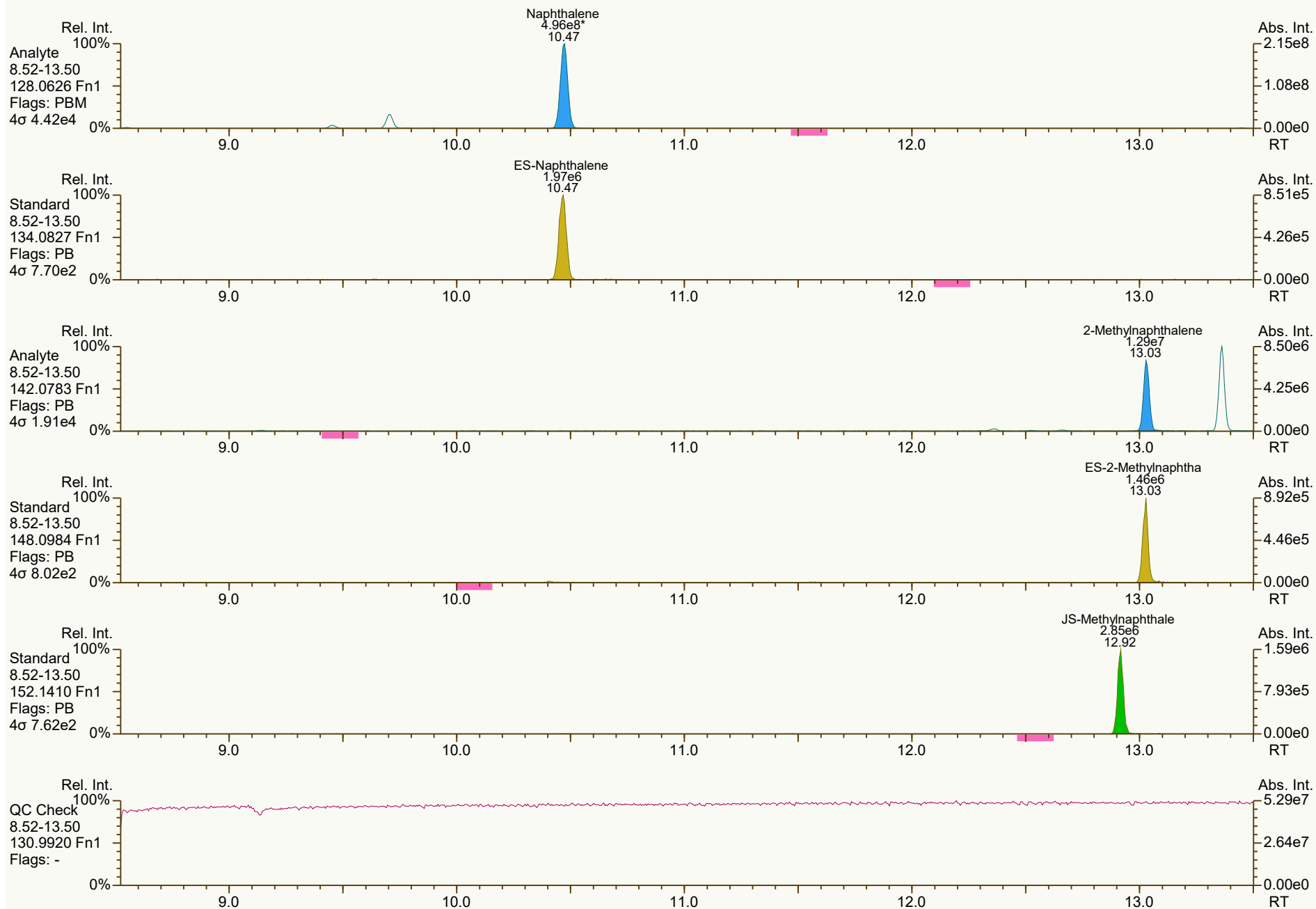
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 821-451

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:30 Page 1 of 9

SGS ID: B9770_21382_PAH_003-AR1-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 59

Acq: 25-Sep-2024 12:40:27
User: DTF Datafile: 240925V04



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_003-AR1-D10.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 8376, 3717, 5009, 7352, 5218 scc: 821-451

Peak annotation: Areas, Centroids
Revised: 26-Sep-2024 11:32 (DTF) Printed: 26-Sep-2024 13:30 Page 2 of 9

SGS ID: B9770_21382_PAH_003-AR1-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 59

Acq: 25-Sep-2024 12:40:27
User: DTF Datafile: 240925V04



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Peak annotation: Areas, Centroids
Revised: 26-Sep-2024 11:32 (DTF) Printed: 26-Sep-2024 13:30 Page 3 of 9

SGS ID: B9770_21382_PAH_003-AR1-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 59

Acq: 25-Sep-2024 12:40:27
User: DTF Datafile: 240925V04



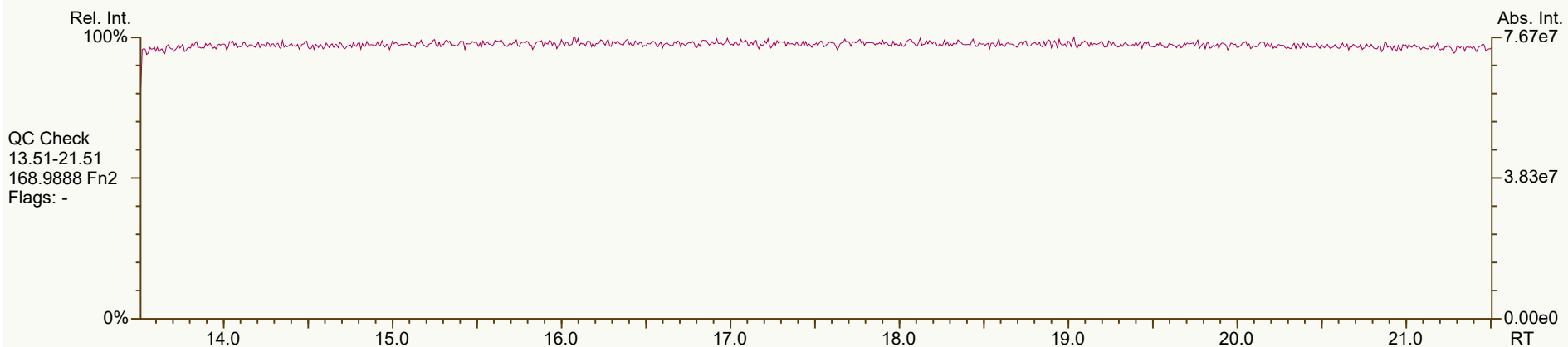
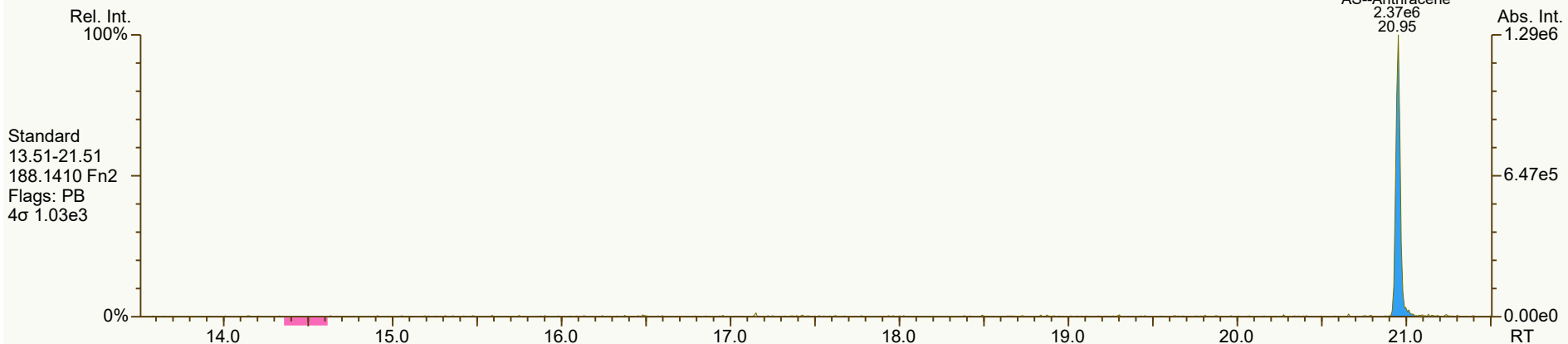
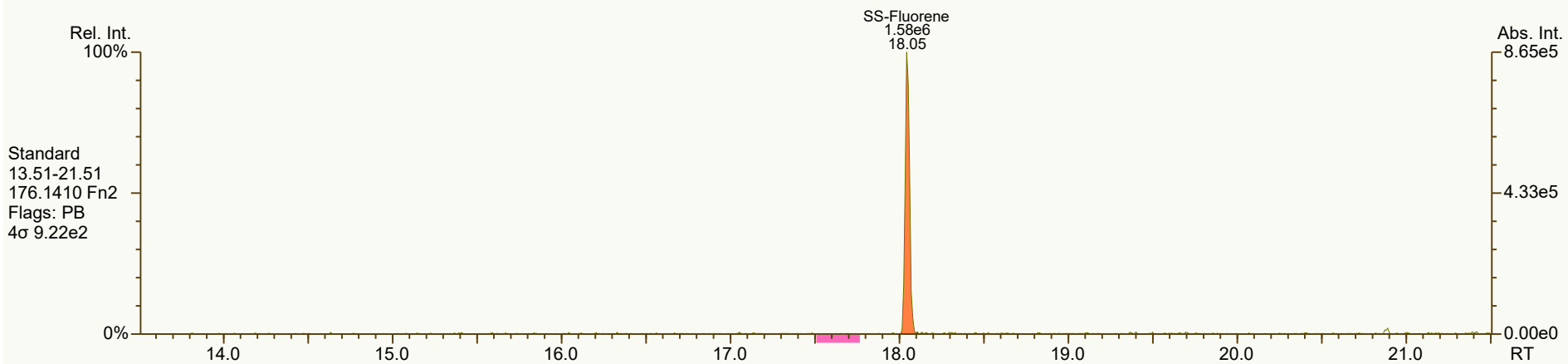
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 5237, 2791, 5729, 3845 scc: 821-451

Peak annotation: Areas, Centroids
Revised: 26-Sep-2024 11:33 (DTF) Printed: 26-Sep-2024 13:30 Page 4 of 9

SGS ID: B9770_21382_PAH_003-AR1-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 59

Acq: 25-Sep-2024 12:40:27
User: DTF Datafile: 240925V04



SGS ID: B9770_21382_PAH_003-AR1-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 59

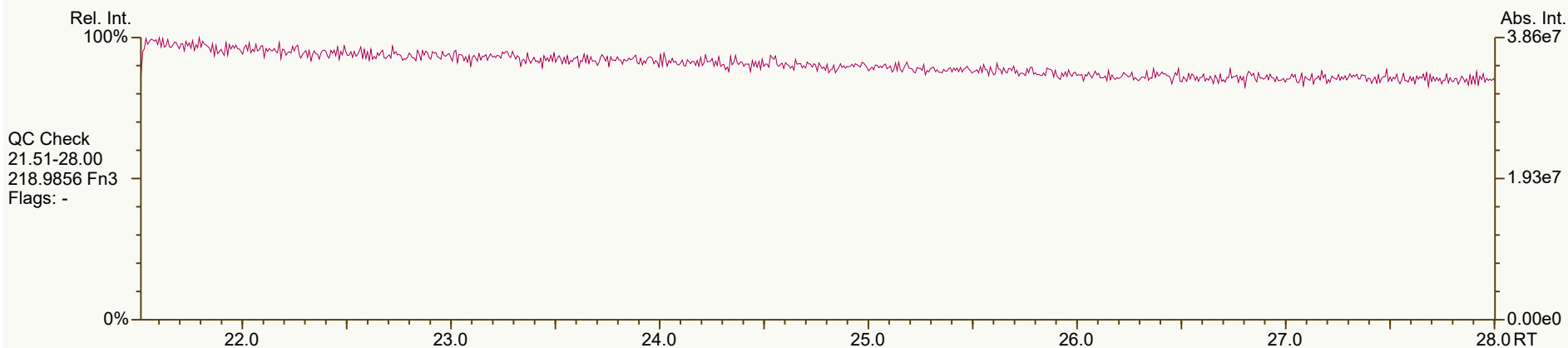
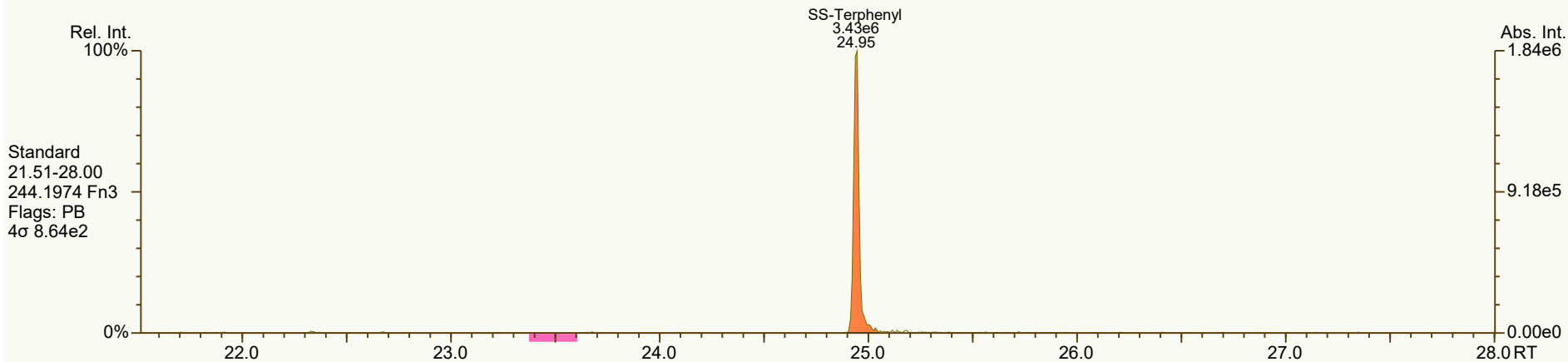
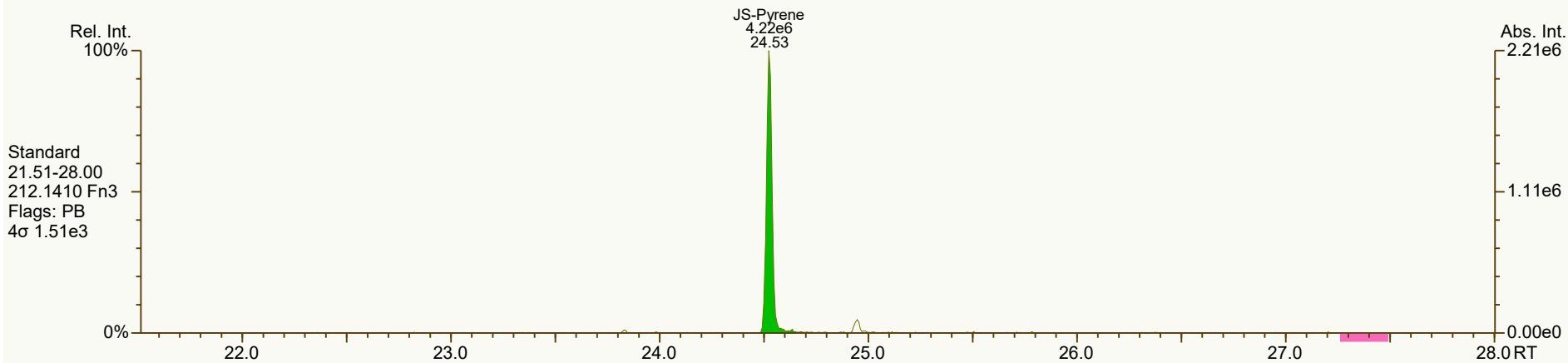
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User: DTF Datafile: 240925V04



SGS ID: B9770_21382_PAH_003-AR1-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 59

Acq: 25-Sep-2024 12:40:27
User: DTF Datafile: 240925V04



SGS ID: B9770_21382_PAH_003-AR1-D10

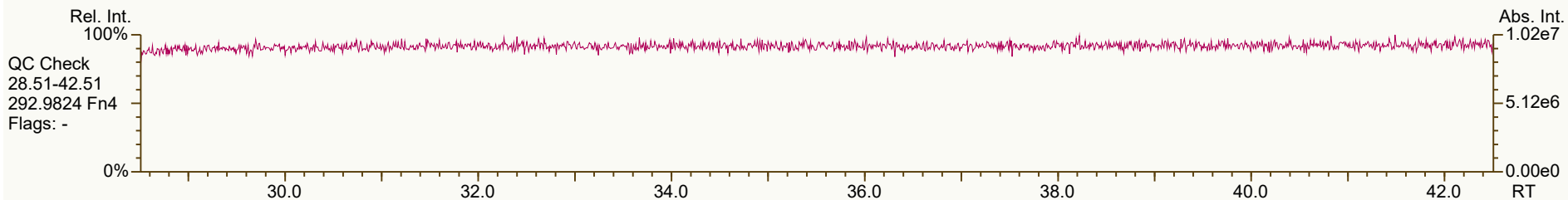
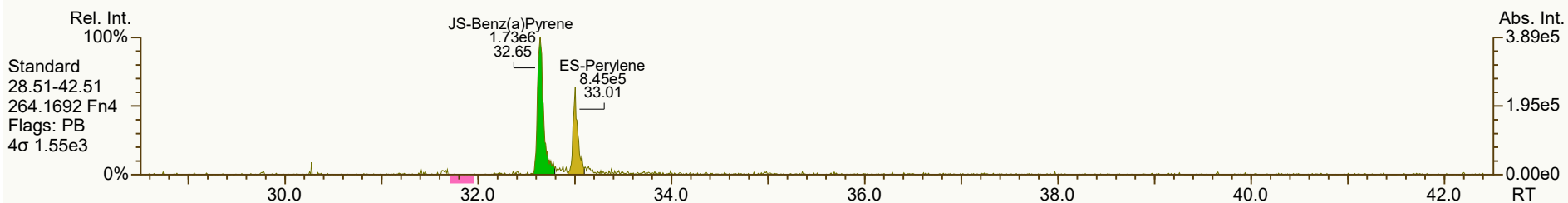
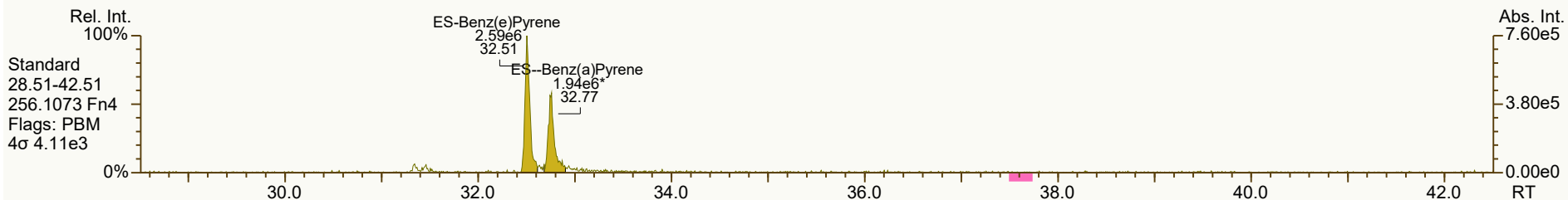
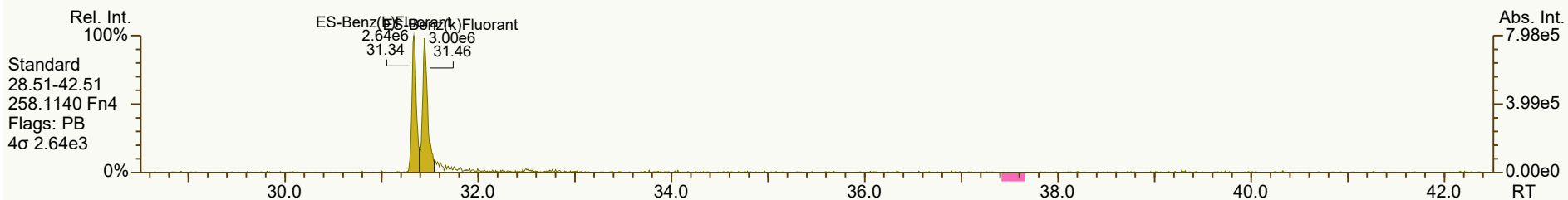
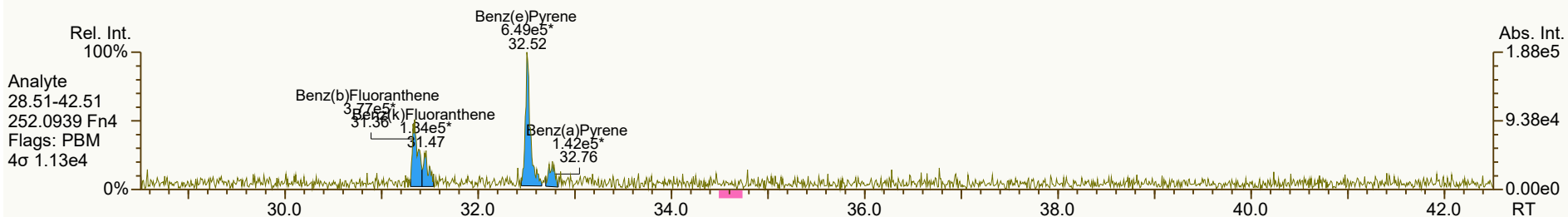
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill On

VSIR EI+ Expt: pah GC: pah Vial: 59

Acq: 25-Sep-2024 12:40:27

User: DTF Datafile: 240925V04



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_003-AR1-D10.utp_res, saved 26-Sep-2024 11:36 (DTF)

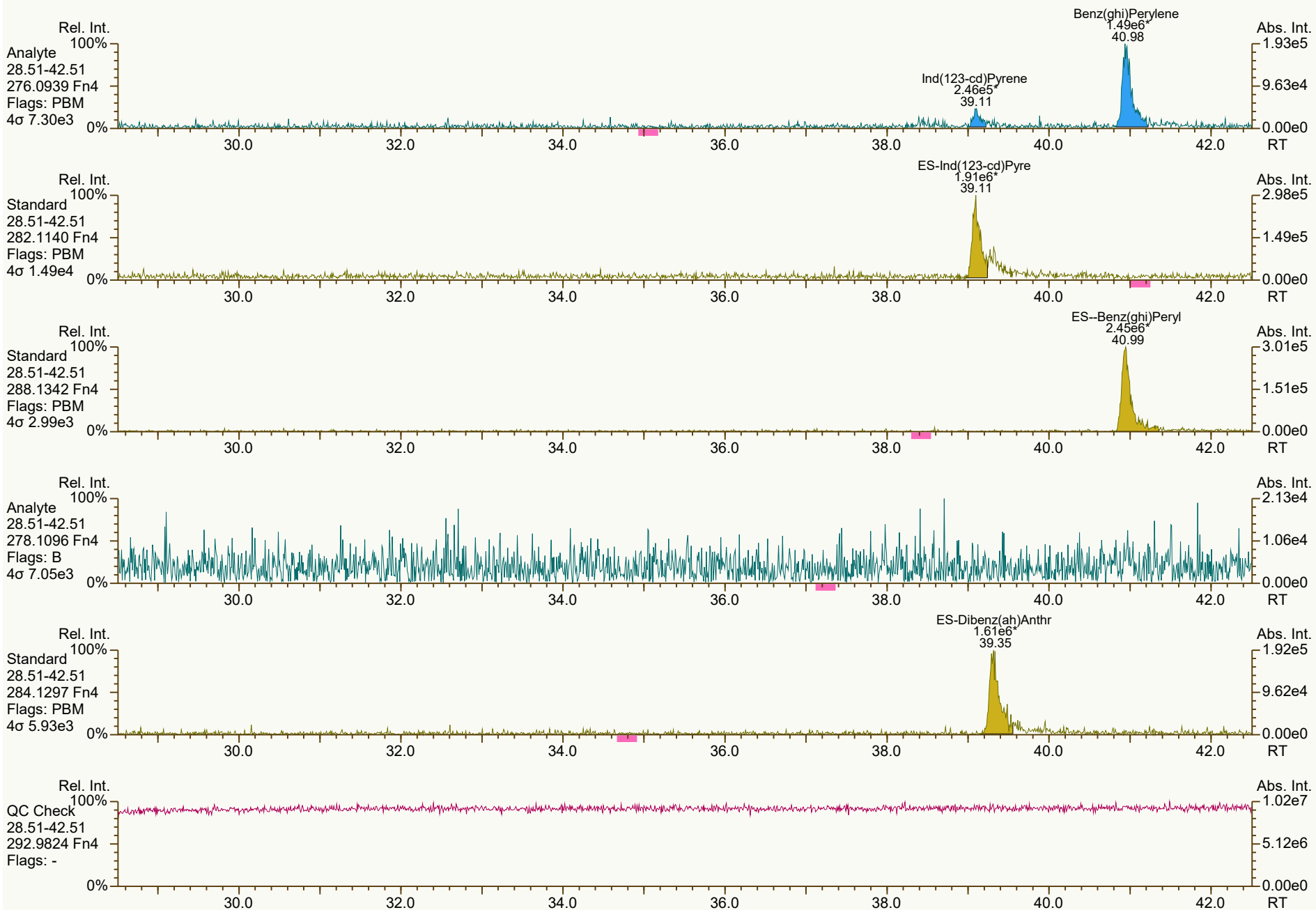
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 6195, 7180, 7552, 0026 scc: 821-451

Peak annotation: Areas, Centroids
Revised: 26-Sep-2024 11:33 (DTF) Printed: 26-Sep-2024 13:30 Page 8 of 9

SGS ID: B9770_21382_PAH_003-AR1-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 59

Acq: 25-Sep-2024 12:40:27
User: DTF Datafile: 240925V04



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_003-AR1-D10.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 5077, 4188, 3292, 9636, 5867 scc: 821-451

Peak annotation: Areas, Centroids
Revised: 26-Sep-2024 11:35 (DTF) Printed: 26-Sep-2024 13:30 Page 9 of 9

| Stats | | PAH Ax | ES/SS | | Checkcode: 460-335-CKF | | | | | | |
|-----------------------------|--------|--------|--------|--------|------------------------|----------|----|------|----------|----------|---------|
| Largest +ve RT shift (secs) | | 1.2 | 1.6 | | | | | | | | |
| Largest -ve RT shift (secs) | | -1.6 | -0.2 | | | | | | | | |
| Name | Actual | | Pred | Actual | Diff | Response | Ra | Conc | | | |
| | RT | QC | RRT | RRT | Secs | | | RRF | ng/Train | Noise | DL |
| Naphthalene | 10.50 | E | 1.0005 | 1.0011 | +0.4 | 5.83E+08 | - | 0.99 | 16500 | 5.84E+04 | 9.22000 |
| 2-Methylnaphthalene | 13.06 | B E | 1.0004 | 1.0004 | 0 | 1.11E+07 | - | 1.01 | 574 | 2.86E+04 | 6.28000 |
| Acenaphthylene | 16.01 | | 1.0000 | 1.0000 | 0 | 1.51E+06 | - | 0.92 | 41.2 | 5.36E+04 | 6.79000 |
| Acenaphthene | 16.56 | B | 1.0005 | 0.9989 | -1.6 | 6.08E+05 | - | 1.01 | 24.6 | 3.25E+04 | 6.27000 |
| Fluorene | 18.16 | B | 1.0000 | 1.0000 | 0 | 8.94E+05 | - | 1.02 | 35.3 | 2.04E+04 | 3.62000 |
| Phenanthrene | 20.89 | E | 1.0004 | 1.0004 | 0 | 1.88E+07 | - | 1.00 | 405 | 3.39E+04 | 3.24000 |
| Anthracene | 21.03 | B | 1.0000 | 1.0004 | +0.5 | 7.25E+05 | - | 1.23 | 16 | 3.39E+04 | 3.35000 |
| Fluoranthene | 24.02 | | 1.0000 | 1.0003 | +0.4 | 1.61E+07 | - | 0.92 | 258 | 3.26E+04 | 2.24000 |
| Pyrene | 24.59 | | 1.0000 | 1.0000 | 0 | 2.54E+07 | - | 0.98 | 348 | 3.26E+04 | 1.89000 |
| Benzo (a) Anthracene | 27.68 | B | 1.0000 | 0.9997 | -0.5 | 1.80E+05 | - | 1.00 | 5.68 | 1.28E+04 | 1.96000 |
| Chrysene | 27.80 | B | 1.0003 | 1.0003 | 0 | 5.24E+05 | - | 1.01 | 14.7 | 1.28E+04 | 2.22000 |
| Benzo (b) Fluoranthene | 31.35 | | 1.0003 | 1.0000 | -0.6 | 1.09E+06 | - | 0.98 | 26.9 | 1.98E+04 | 3.53000 |
| Benzo (k) Fluoranthene | 31.47 | B | 1.0003 | 1.0000 | -0.6 | 2.58E+05 | - | 0.92 | 6.43 | 1.98E+04 | 4.89000 |
| Benzo (e) Pyrene | 32.52 | | 1.0000 | 1.0003 | +0.6 | 5.46E+06 | - | 0.98 | 124 | 1.98E+04 | 3.77000 |
| Benzo (a) Pyrene | 32.75 | | 1.0003 | 0.9995 | -1.6 | 7.44E+05 | - | 0.98 | 23.1 | 1.98E+04 | 6.23000 |
| Perylene | - | | 1.0039 | 0.0000 | | 0.00E+00 | - | 1.06 | ND | 1.98E+04 | 7.60000 |
| Indeno (1,2,3-cd) Pyrene | 39.10 | | 1.0002 | 1.0007 | +1.2 | 1.54E+06 | - | 0.92 | 85.4 | 1.20E+04 | 9.65000 |
| Dibenzo (a,h) Anthracene | - | | 0.9998 | 0.0000 | | 0.00E+00 | - | 0.94 | ND | 7.96E+03 | 8.44000 |
| Benzo (ghi) Perylene | 40.93 | E | 1.0002 | 1.0002 | 0 | 1.33E+07 | - | 0.97 | 459 | 1.20E+04 | 6.01000 |

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|--|--|--|--|--|--|--|--|--|--|--|--|
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Datafile: 240919V20
Acquired: 20 Sep 2024 03:12:16

Client ID: Test#3 Mill On
Lab ID: B9770_21382_PAH_004-D10

Wt/Vol: 1.00 Train
J Level: 4 ng/Train

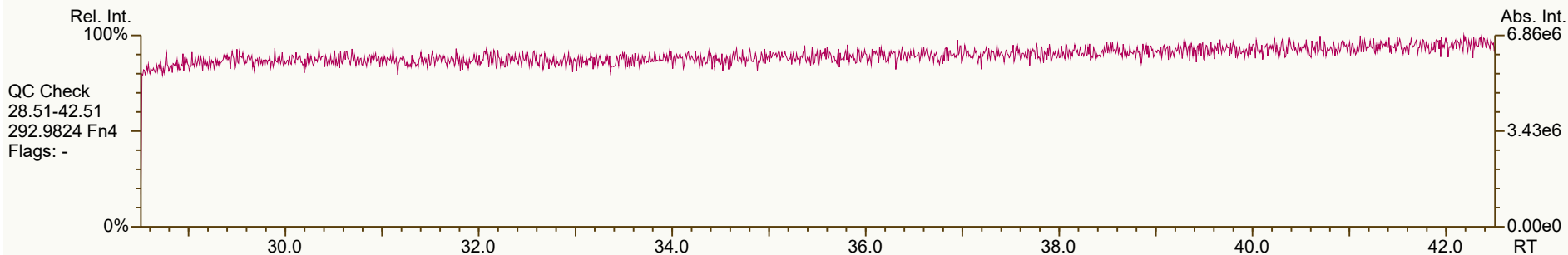
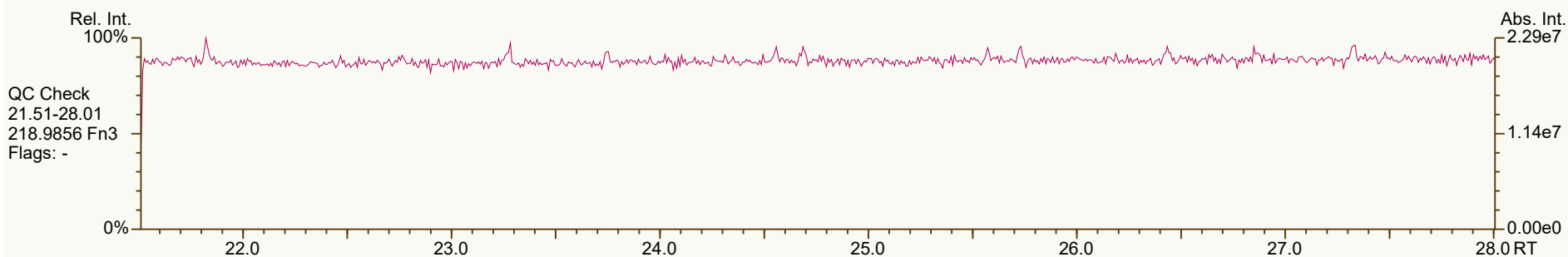
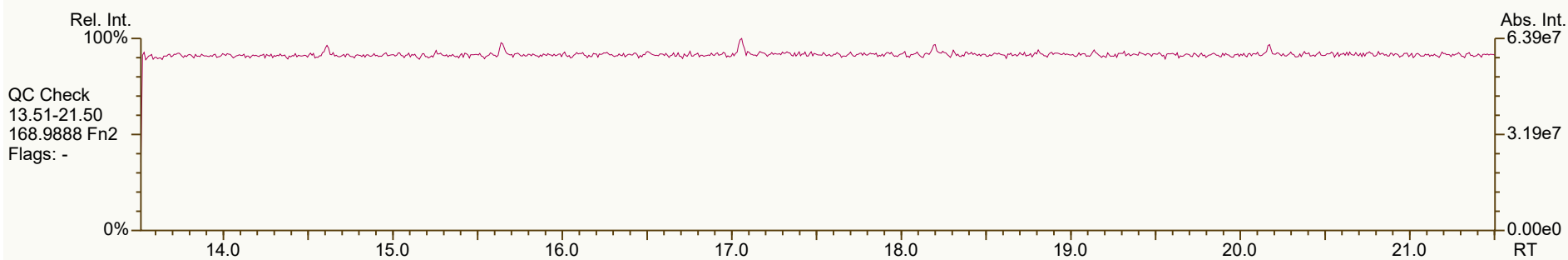
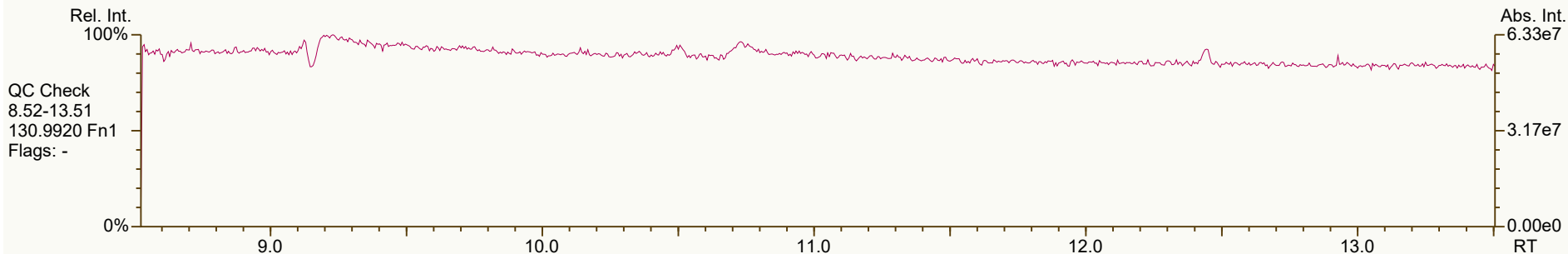
MM6_PAH_ICAL_05MAR2024
Nominal ES spike: 40 ng

| | | Stats | PAH Ax | ES/SS | Checkcode: 460-335-CKF | | | | | |
|-------------------------------|--------|-------|--------|--------|------------------------|----------|----|------|-------|--|
| Largest +ve RT shift (secs) | | | 1.2 | 1.6 | | | | | | |
| Largest -ve RT shift (secs) | | | -1.6 | -0.2 | | | | | | |
| Name | Actual | | Pred | Actual | Diff | Response | Ra | RRF | Recv. | |
| | RT | QC | RRT | RRT | Secs | | | | | |
| 13C6-Naphthalene | 10.49 | | 0.8106 | 0.8104 | -0.2 | 1.42E+06 | - | 1.35 | 57.2 | |
| 13C6-2-Methylnaphthalene | 13.05 | | 1.0082 | 1.0082 | 0 | 7.68E+05 | - | 0.99 | 42.1 | |
| 13C6-Acenaphthylene | 16.01 | | 0.9723 | 0.9724 | +0.1 | 1.58E+06 | - | 1.37 | 62.1 | |
| 13C6-Acenaphthene | 16.58 | | 1.0060 | 1.0065 | +0.5 | 9.77E+05 | - | 0.91 | 57.6 | |
| 13C6-Fluorene | 18.16 | | 1.1025 | 1.1024 | -0.1 | 9.98E+05 | - | 1.09 | 48.9 | |
| 13C6-Phenanthrene | 20.88 | | 1.2679 | 1.2677 | -0.2 | 1.87E+06 | - | 1.91 | 52.4 | |
| 13C6-Anthracene | 21.02 | | 1.2766 | 1.2764 | -0.2 | 1.47E+06 | - | 1.35 | 58.5 | |
| 13C6-Fluoranthene | 24.01 | | 0.9782 | 0.9782 | 0 | 2.73E+06 | - | 1.23 | 74.3 | |
| 13C3-Pyrene | 24.59 | | 1.0020 | 1.0019 | -0.1 | 2.98E+06 | - | 1.23 | 80.8 | |
| 13C6-Benzo (a) Anthracene | 27.69 | | 1.1278 | 1.1281 | +0.4 | 1.27E+06 | - | 0.86 | 48.9 | |
| 13C6-Chrysene | 27.79 | H | 1.1321 | 1.1323 | +0.3 | 1.42E+06 | - | 1.19 | 39.8 | |
| 13C6-Benzo (b) Fluoranthene | 31.35 | | 0.9600 | 0.9605 | +1.0 | 1.65E+06 | - | 1.28 | 93.7 | |
| 13C6-Benzo (k) Fluoranthene | 31.47 | | 0.9634 | 0.9641 | +1.4 | 1.75E+06 | - | 1.82 | 69.8 | |
| 13C4-Benzo (e) Pyrene | 32.51 | | 0.9961 | 0.9961 | 0 | 1.80E+06 | - | 1.56 | 83.8 | |
| 13C4-Benzo (a) Pyrene | 32.77 | | 1.0031 | 1.0039 | +1.6 | 1.32E+06 | - | 1.23 | 77.8 | |
| d12-Perylene | 33.03 | | 1.0112 | 1.0120 | +1.6 | 1.05E+06 | - | 1.13 | 67.8 | |
| 13C6-Indeno (1,2,3-cd) Pyrene | 39.07 | | 1.1967 | 1.1970 | +0.6 | 7.86E+05 | - | 0.85 | 67.1 | |
| 13C6-Dibenzo (ah) Anthracene | 39.28 | | 1.2035 | 1.2035 | 0 | 6.81E+05 | - | 0.94 | 52.6 | |
| 13C12-Benzo (ghi) Perylene | 40.92 | | 1.2536 | 1.2537 | +0.2 | 1.20E+06 | - | 1.33 | 65.4 | |
| AS--Anthracene FS | 20.98 | V | 1.2733 | 1.2737 | +0.4 | 1.10E+06 | - | 1.17 | 50.3 | |
| SS-Fluorene | 18.07 | | 0.9951 | 0.9951 | 0 | 9.64E+05 | - | 1.00 | 96.4 | |
| SS-Terphenyl | 24.97 | V | 1.0396 | 1.0399 | +0.4 | 1.19E+06 | - | 0.79 | 55.1 | |
| | | | | | | | | | | |
| JS-Methylnaphthalene | 12.94 | | - | - | - | 1.84E+06 | - | - | - | |
| JS-Acenaphthene | 16.47 | | - | - | - | 1.87E+06 | - | - | - | |
| JS-Pyrene | 24.54 | | - | - | - | 2.99E+06 | - | - | - | |
| JS-Benzo (a) Pyrene | 32.64 | | - | - | - | 1.38E+06 | - | - | - | |
| | | | | | | | | | | |

SGS ID: B9770_21382_PAH_004-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 53

Acq: 20-Sep-2024 03:12:16
User: DTF Datafile: 240919V20



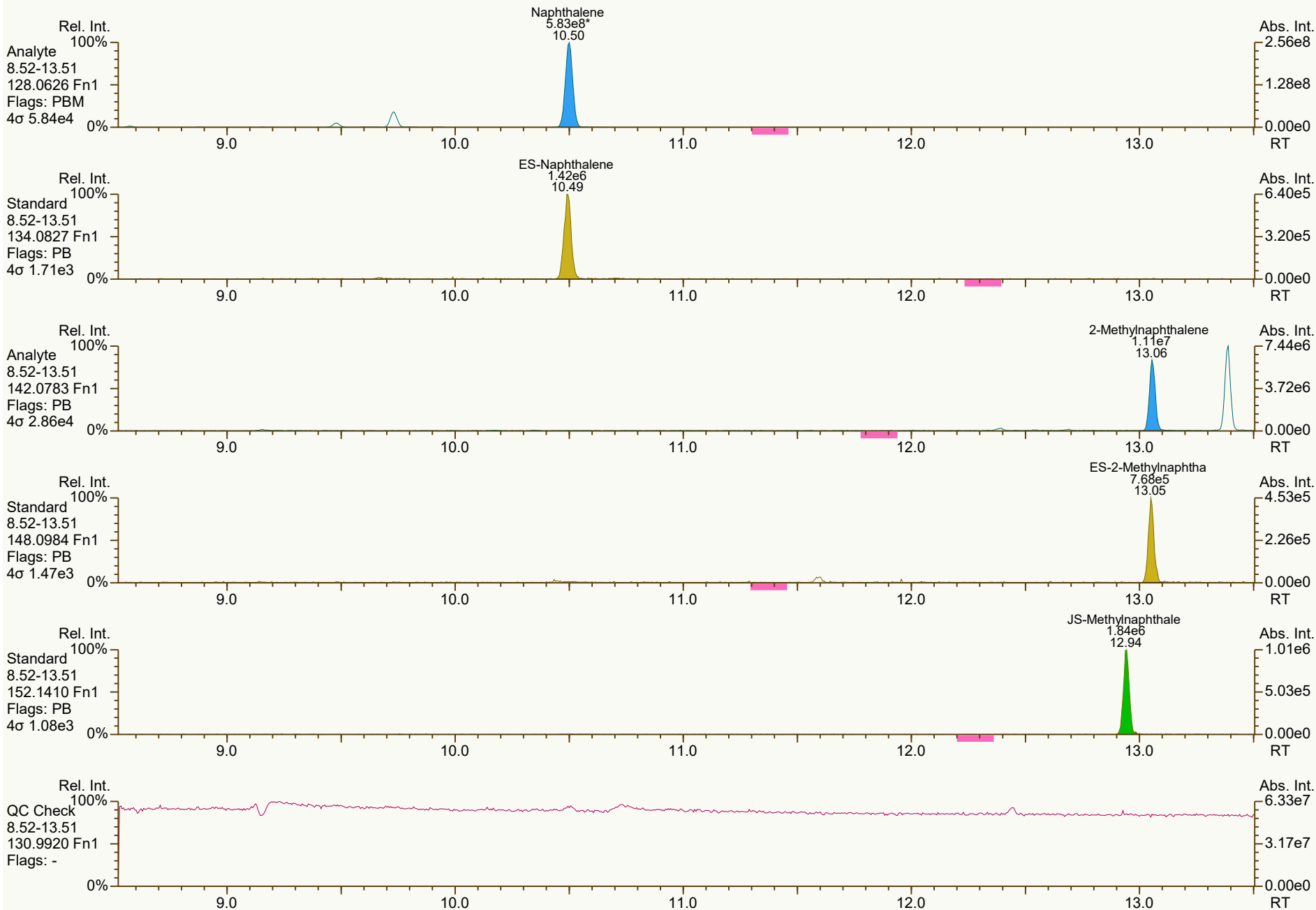
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 460-335

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:28 Page 1 of 9

SGS ID: B9770_21382_PAH_004-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 53

Acq: 20-Sep-2024 03:12:16
User: DTF Datafile: 240919V20



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_004-D10.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 5459, 7494, 3841, 3488, 4516 scc: 460-335

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:41 (DTF) Printed: 26-Sep-2024 13:28 Page 2 of 9

SGS ID: B9770_21382_PAH_004-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 53

Acq: 20-Sep-2024 03:12:16
User: DTF Datafile: 240919V20



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_004-D10.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 8709, 5801, 3187, 0918, 4169 scc: 460-335

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:42 (DTF) Printed: 26-Sep-2024 13:28 Page 3 of 9

SGS ID: B9770_21382_PAH_004-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 53

Acq: 20-Sep-2024 03:12:16
User: DTF Datafile: 240919V20



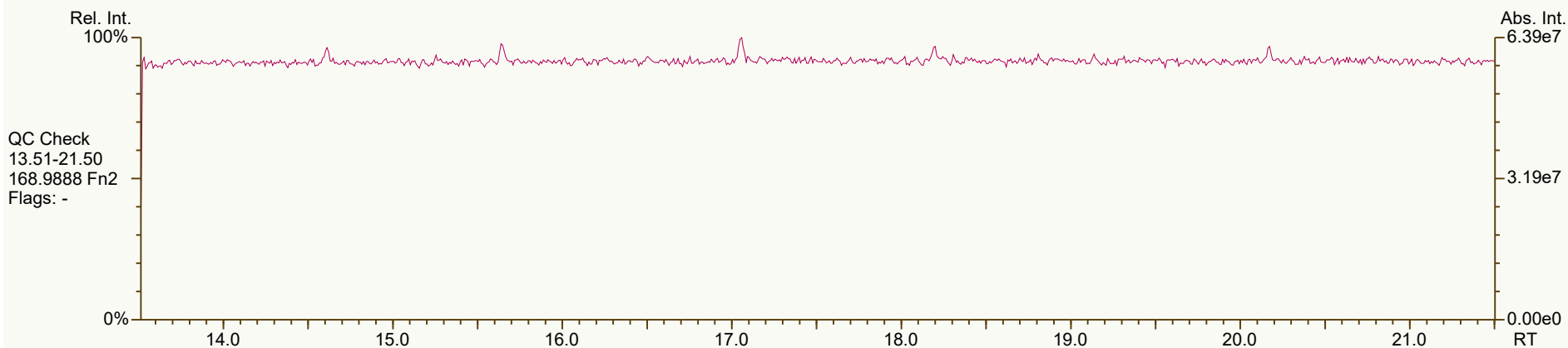
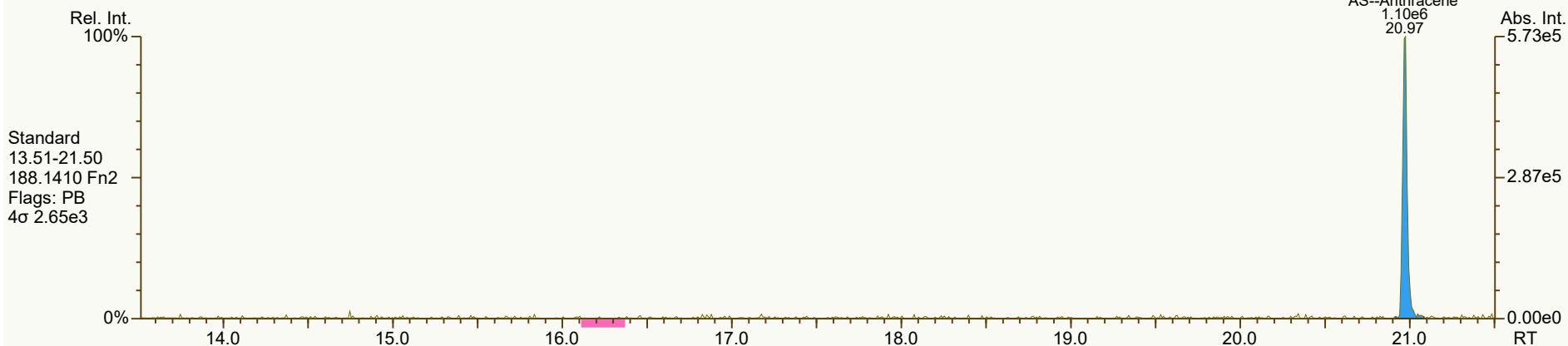
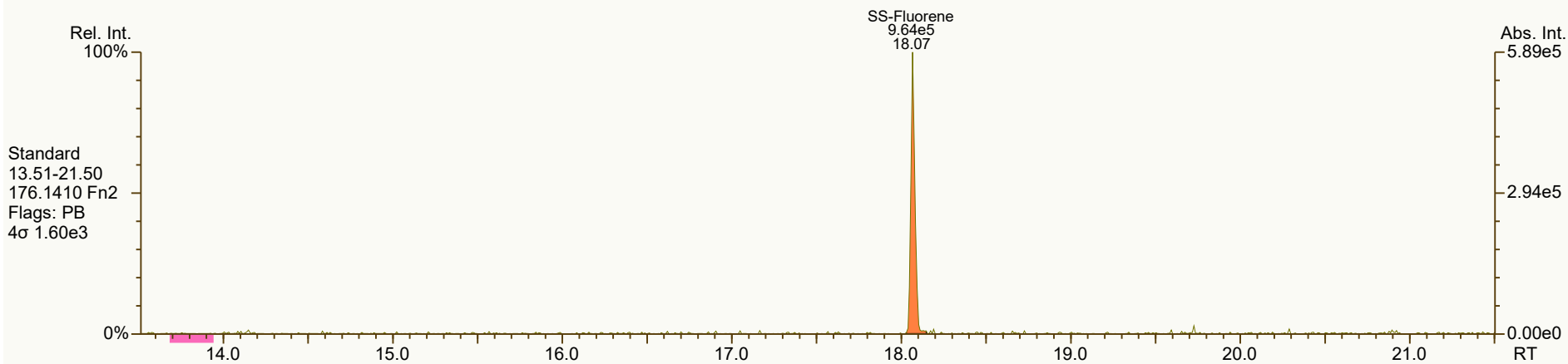
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 0961, 9738, 2981, 3238 scc: 460-335

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:42 (DTF) Printed: 26-Sep-2024 13:28 Page 4 of 9

SGS ID: B9770_21382_PAH_004-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 53

Acq: 20-Sep-2024 03:12:16
User: DTF Datafile: 240919V20



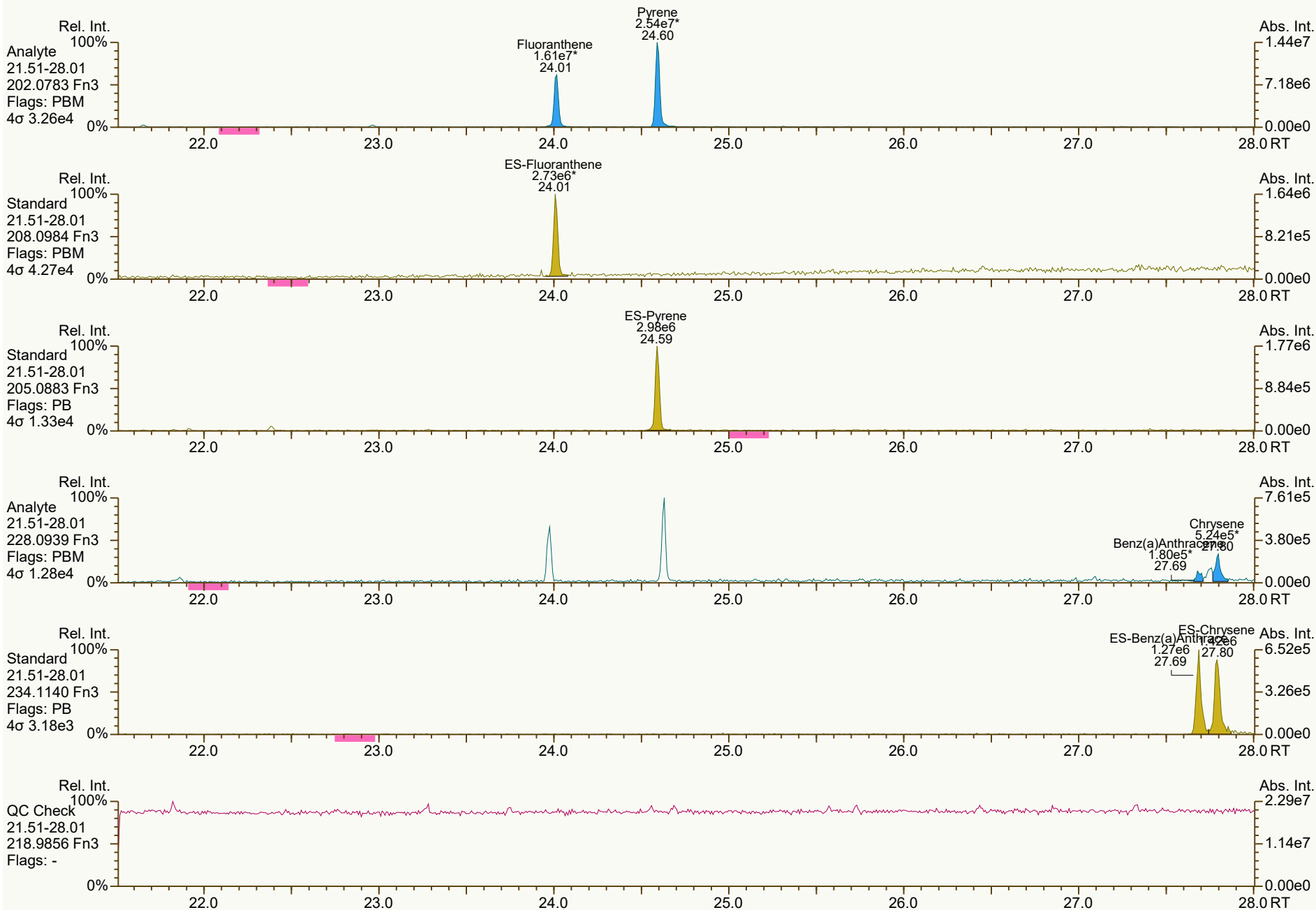
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:41 Printed: 26-Sep-2024 13:28 Page 5 of 9

SGS ID: B9770_21382_PAH_004-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 53

Acq: 20-Sep-2024 03:12:16
User: DTF Datafile: 240919V20



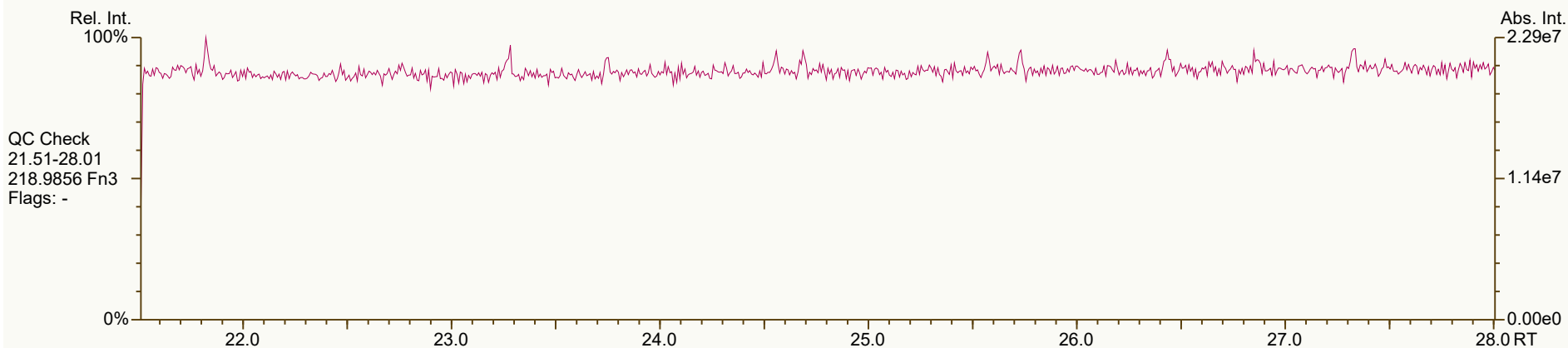
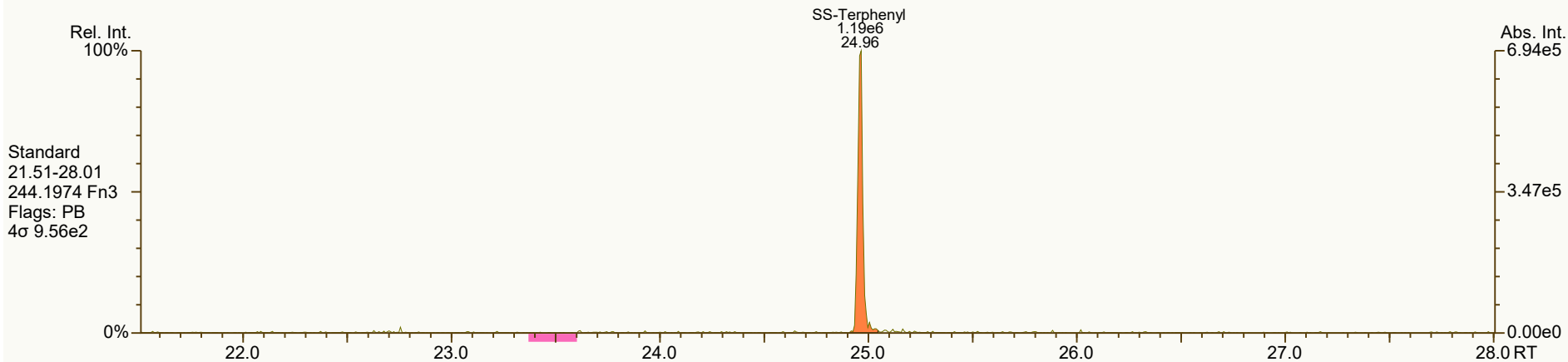
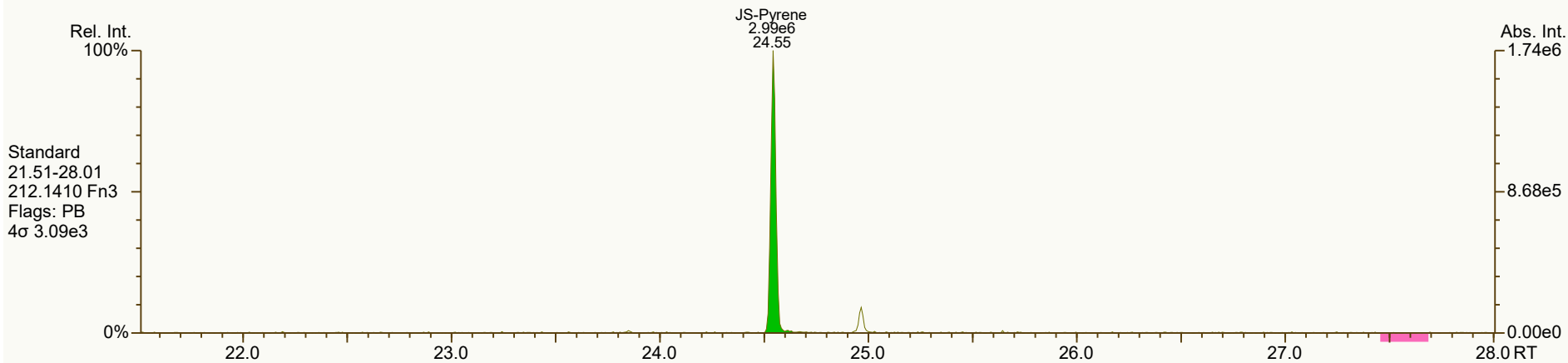
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 3356, 3220, 0689, 3030, 1399 scc: 460-335

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:42 (DTF) Printed: 26-Sep-2024 13:28 Page 6 of 9

SGS ID: B9770_21382_PAH_004-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 53

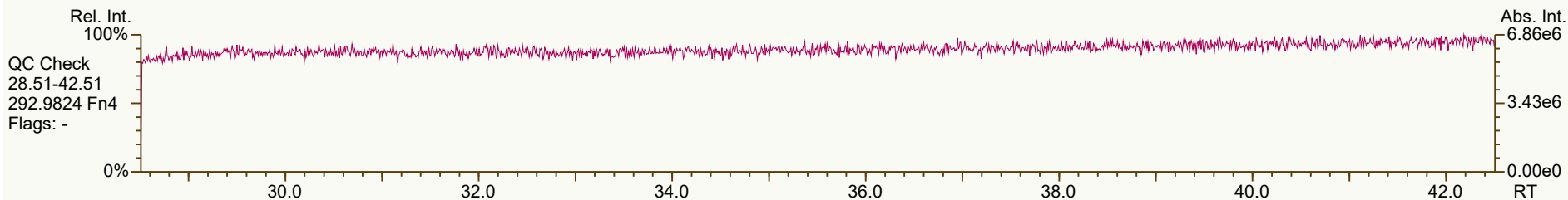
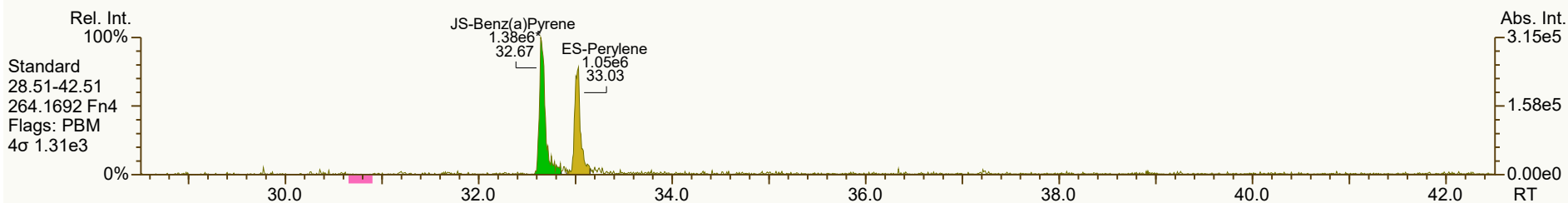
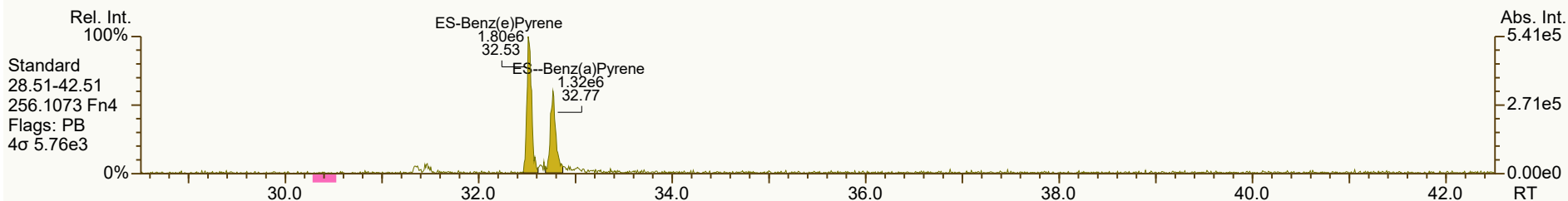
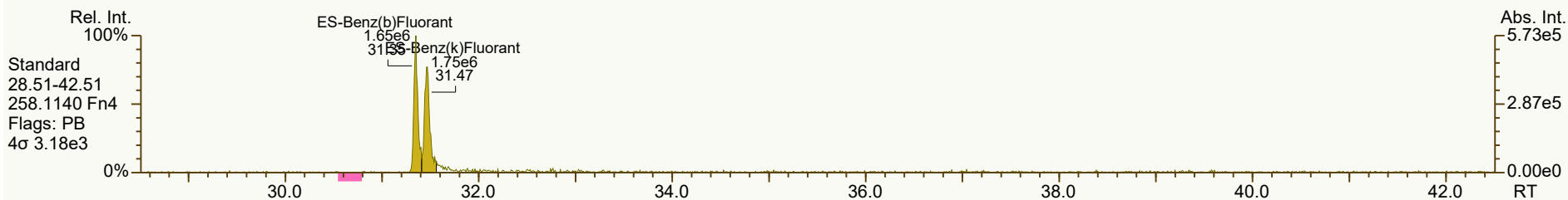
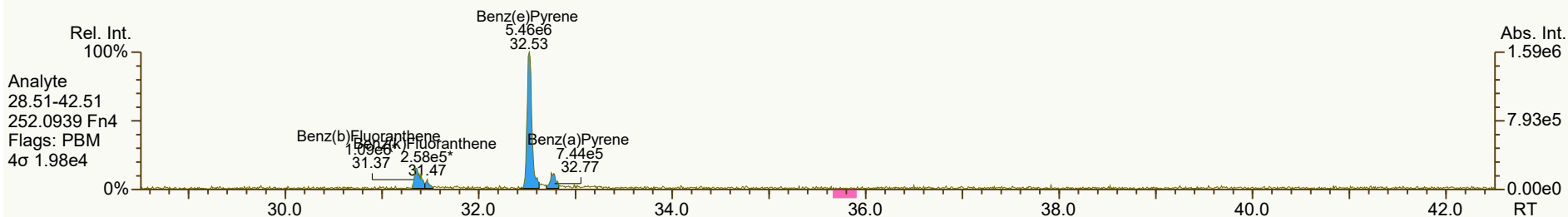
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User: DTF Datafile: 240919V20



SGS ID: B9770_21382_PAH_004-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 53

Acq: 20-Sep-2024 03:12:16
User: DTF Datafile: 240919V20



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_004-D10.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 3221, 6143, 7581, 2348 scc: 460-335

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:42 (DTF) Printed: 26-Sep-2024 13:28 Page 8 of 9

SGS ID: B9770_21382_PAH_004-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 53

Acq: 20-Sep-2024 03:12:16
User: DTF Datafile: 240919V20



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_004-D10.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 2215, 5035, 7046, 6347, 8440 scc: 460-335

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:42 (DTF) Printed: 26-Sep-2024 13:28 Page 9 of 9

Datafile: 240919V21
Acquired: 20 Sep 2024 03:59:00

Client ID: Test#2 Mill Off
Lab ID: B9770_21382_PAH_005-D10

Wt/Vol: 1.00 Train
J Level: 4 ng/Train

MM6_PAH_ICAL_05MAR2024
Nominal ES spike: 40 ng

| Stats | PAH Ax | ES/SS |
|-----------------------------|--------|-------|
| Largest +ve RT shift (secs) | 3.0 | 1.7 |
| Largest -ve RT shift (secs) | -2.0 | 0.0 |

Checkcode: 378-188-GCL

| Name | Actual | | Pred | Actual | Diff | | Conc | | | | |
|--------------------------|--------|----|--------|--------|------|----------|------|------|----------|----------|----------|
| | RT | QC | RRT | RRT | Secs | Response | Ra | RRF | ng/Train | Noise | DL |
| Naphthalene | 10.48 | E | 1.0005 | 0.9974 | -2.0 | 6.91E+09 | - | 0.99 | 19400 | 3.16E+06 | 87.00000 |
| 2-Methylnaphthalene | 13.04 | E | 1.0004 | 0.9992 | -0.9 | 3.67E+09 | - | 1.01 | 54100 | 5.23E+04 | 3.45000 |
| Acenaphthylene | 16.01 | E | 1.0000 | 1.0006 | +0.6 | 2.75E+09 | - | 0.92 | 41500 | 3.76E+05 | 26.10000 |
| Acenaphthene | 16.57 | E | 1.0005 | 1.0005 | 0 | 3.75E+07 | - | 1.01 | 1220 | 1.36E+05 | 19.30000 |
| Fluorene | 18.15 | E | 1.0000 | 1.0000 | 0 | 5.70E+07 | - | 1.02 | 1280 | 6.00E+04 | 5.69000 |
| Phenanthrene | 20.87 | E | 1.0004 | 0.9996 | -1.0 | 2.37E+09 | - | 1.00 | 28000 | 6.37E+04 | 2.96000 |
| Anthracene | 21.02 | E | 1.0000 | 1.0004 | +0.5 | 4.74E+07 | - | 1.23 | 897 | 6.37E+04 | 5.15000 |
| Fluoranthene | 24.01 | E | 1.0000 | 1.0003 | +0.4 | 5.96E+07 | - | 0.92 | 884 | 4.46E+04 | 3.00000 |
| Pyrene | 24.58 | | 1.0000 | 1.0000 | 0 | 2.41E+07 | - | 0.98 | 323 | 4.46E+04 | 2.57000 |
| Benzo (a) Anthracene | 27.67 | B | 1.0000 | 1.0000 | 0 | 1.67E+05 | - | 1.00 | 5.72 | 2.42E+04 | 4.26000 |
| Chrysene | 27.79 | B | 1.0003 | 1.0003 | 0 | 4.19E+05 | - | 1.01 | 12 | 2.42E+04 | 4.05000 |
| Benzo (b) Fluoranthene | 31.39 | | 1.0003 | 1.0019 | +3.0 | 6.13E+05 | - | 0.98 | 16.9 | 1.99E+04 | 4.48000 |
| Benzo (k) Fluoranthene | - | | 1.0003 | 0.0000 | | 0.00E+00 | - | 0.92 | ND | 1.99E+04 | 4.29000 |
| Benzo (e) Pyrene | 32.51 | B | 1.0000 | 1.0000 | 0 | 3.43E+05 | - | 0.98 | 8.67 | 1.99E+04 | 4.06000 |
| Benzo (a) Pyrene | - | | 1.0003 | 0.0000 | | 0.00E+00 | - | 0.98 | ND | 1.99E+04 | 6.65000 |
| Perylene | - | | 1.0039 | 0.0000 | | 0.00E+00 | - | 1.06 | ND | 1.99E+04 | 8.67000 |
| Indeno (1,2,3-cd) Pyrene | - | | 1.0002 | 0.0000 | | 0.00E+00 | - | 0.92 | ND | 1.28E+04 | 12.10000 |
| Dibenzo (a,h) Anthracene | - | | 0.9998 | 0.0000 | | 0.00E+00 | - | 0.94 | ND | 9.33E+03 | 9.64000 |
| Benzo (ghi) Perylene | 40.96 | | 1.0002 | 1.0010 | +2.0 | 2.63E+05 | - | 0.97 | 12.1 | 1.28E+04 | 9.37000 |

Datafile: 240919V21

Client ID: Test#2 Mill Off

Wt/Vol: 1.00 Train

MM6_PAH_ICAL_05MAR2024

Acquired: 20 Sep 2024 03:59:00

Lab ID: B9770_21382_PAH_005-D10

J Level: 4 ng/Train

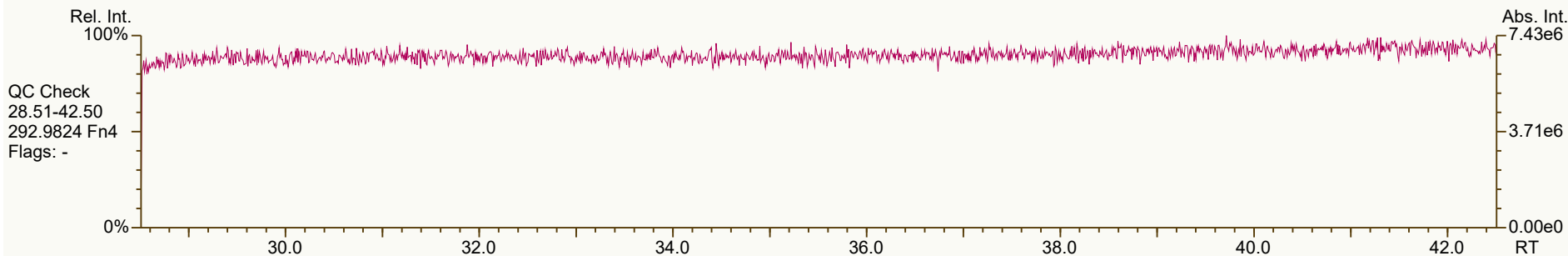
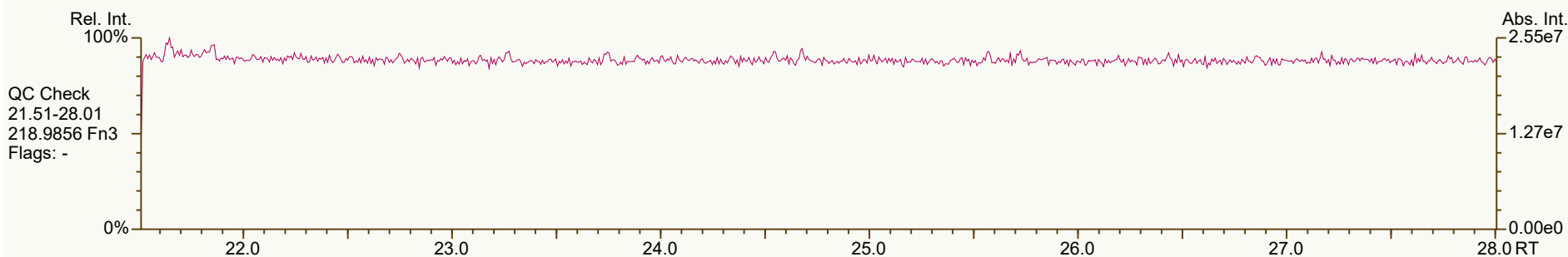
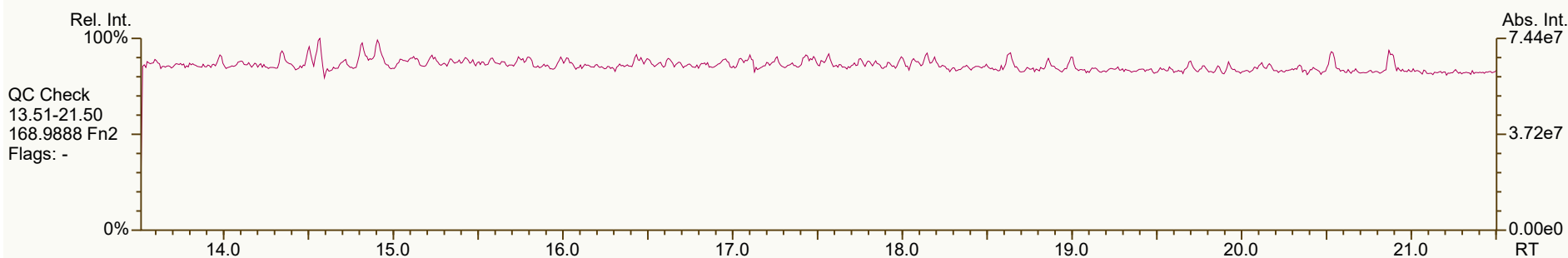
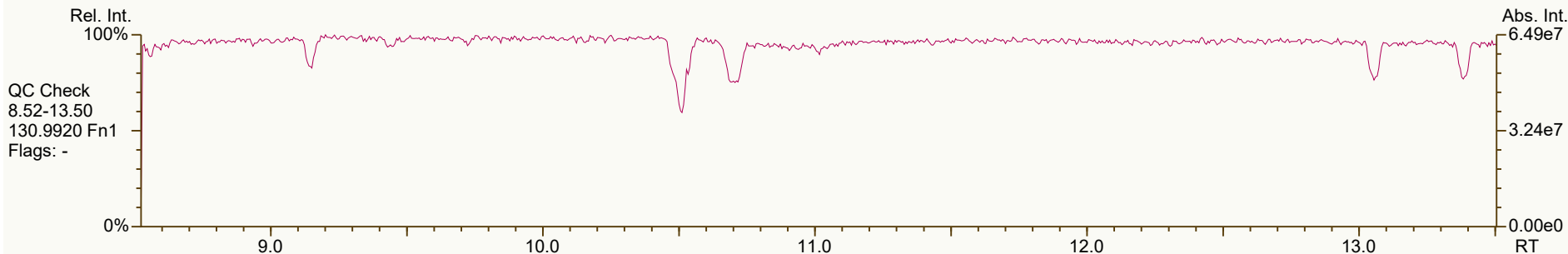
Nominal ES spike: 40 ng

| | | Stats | PAH Ax | ES/SS | | | | | | Checkcode: 378-188-GCL |
|-------------------------------|--------------|-------|-------------|---------------|--------------|----------|----|------|-------|------------------------|
| Largest +ve RT shift (secs) | | | 3.0 | 1.7 | | | | | | |
| Largest -ve RT shift (secs) | | | -2.0 | 0.0 | | | | | | |
| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Recv. | |
| 13C6-Naphthalene | 10.51 | V | 0.8106 | 0.8128 | +1.7 | 1.44E+07 | - | 1.35 | 428 | |
| 13C6-2-Methylnaphthalene | 13.05 | | 1.0082 | 1.0090 | +0.6 | 2.69E+06 | - | 0.99 | 109 | |
| 13C6-Acenaphthylene | 16.00 | | 0.9723 | 0.9723 | 0 | 2.86E+06 | - | 1.37 | 66.8 | |
| 13C6-Acenaphthene | 16.56 | | 1.0060 | 1.0060 | 0 | 1.22E+06 | - | 0.91 | 42.7 | |
| 13C6-Fluorene | 18.15 | | 1.1025 | 1.1025 | 0 | 1.75E+06 | - | 1.09 | 51 | |
| 13C6-Phenanthrene | 20.88 | | 1.2679 | 1.2684 | +0.5 | 3.39E+06 | - | 1.91 | 56.5 | |
| 13C6-Anthracene | 21.01 | | 1.2766 | 1.2766 | 0 | 1.72E+06 | - | 1.35 | 40.6 | |
| 13C6-Fluoranthene | 24.00 | | 0.9782 | 0.9782 | 0 | 2.95E+06 | - | 1.23 | 69.9 | |
| 13C3-Pyrene | 24.58 | | 1.0020 | 1.0020 | 0 | 3.04E+06 | - | 1.23 | 71.7 | |
| 13C6-Benzo (a) Anthracene | 27.67 | H | 1.1278 | 1.1278 | 0 | 1.17E+06 | - | 0.86 | 39.3 | |
| 13C6-Chrysene | 27.78 | H | 1.1321 | 1.1324 | +0.4 | 1.39E+06 | - | 1.19 | 34 | |
| 13C6-Benzo (b) Fluoranthene | 31.33 | | 0.9600 | 0.9600 | 0 | 1.48E+06 | - | 1.28 | 84 | |
| 13C6-Benzo (k) Fluoranthene | 31.45 | | 0.9634 | 0.9636 | +0.4 | 1.71E+06 | - | 1.82 | 68.5 | |
| 13C4-Benzo (e) Pyrene | 32.51 | | 0.9961 | 0.9961 | 0 | 1.62E+06 | - | 1.56 | 75.5 | |
| 13C4-Benzo (a) Pyrene | 32.77 | | 1.0031 | 1.0039 | +1.6 | 1.25E+06 | - | 1.23 | 74.1 | |
| dl2-Perylene | 33.00 | | 1.0112 | 1.0112 | 0 | 8.50E+05 | - | 1.13 | 54.9 | |
| 13C6-Indeno (1,2,3-cd) Pyrene | 39.09 | | 1.1967 | 1.1975 | +1.6 | 7.08E+05 | - | 0.85 | 60.6 | |
| 13C6-Dibenzo (ah) Anthracene | 39.30 | | 1.2035 | 1.2040 | +1.0 | 5.75E+05 | - | 0.94 | 44.4 | |
| 13C12-Benzo (ghi) Perylene | 40.92 | | 1.2536 | 1.2537 | +0.2 | 8.94E+05 | - | 1.33 | 49 | |
| AS--Anthracene FS | 20.97 | H V | 1.2733 | 1.2738 | +0.5 | 1.38E+06 | - | 1.17 | 37.5 | |
| SS-Fluorene | 18.07 | | 0.9951 | 0.9956 | +0.5 | 1.40E+06 | - | 1.00 | 79.7 | |
| SS-Terphenyl | 24.95 | V | 1.0396 | 1.0396 | 0 | 1.16E+06 | - | 0.79 | 49.5 | |
| JS-Methylnaphthalene | 12.93 | | - | - | - | 2.49E+06 | - | - | - | |
| JS-Acenaphthene | 16.46 | | - | - | - | 3.14E+06 | - | - | - | |
| JS-Pyrene | 24.53 | | - | - | - | 3.44E+06 | - | - | - | |
| JS-Benzo (a) Pyrene | 32.64 | | - | - | - | 1.38E+06 | - | - | - | |

SGS ID: B9770_21382_PAH_005-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 54

Acq: 20-Sep-2024 03:59:00
User: DTF Datafile: 240919V21



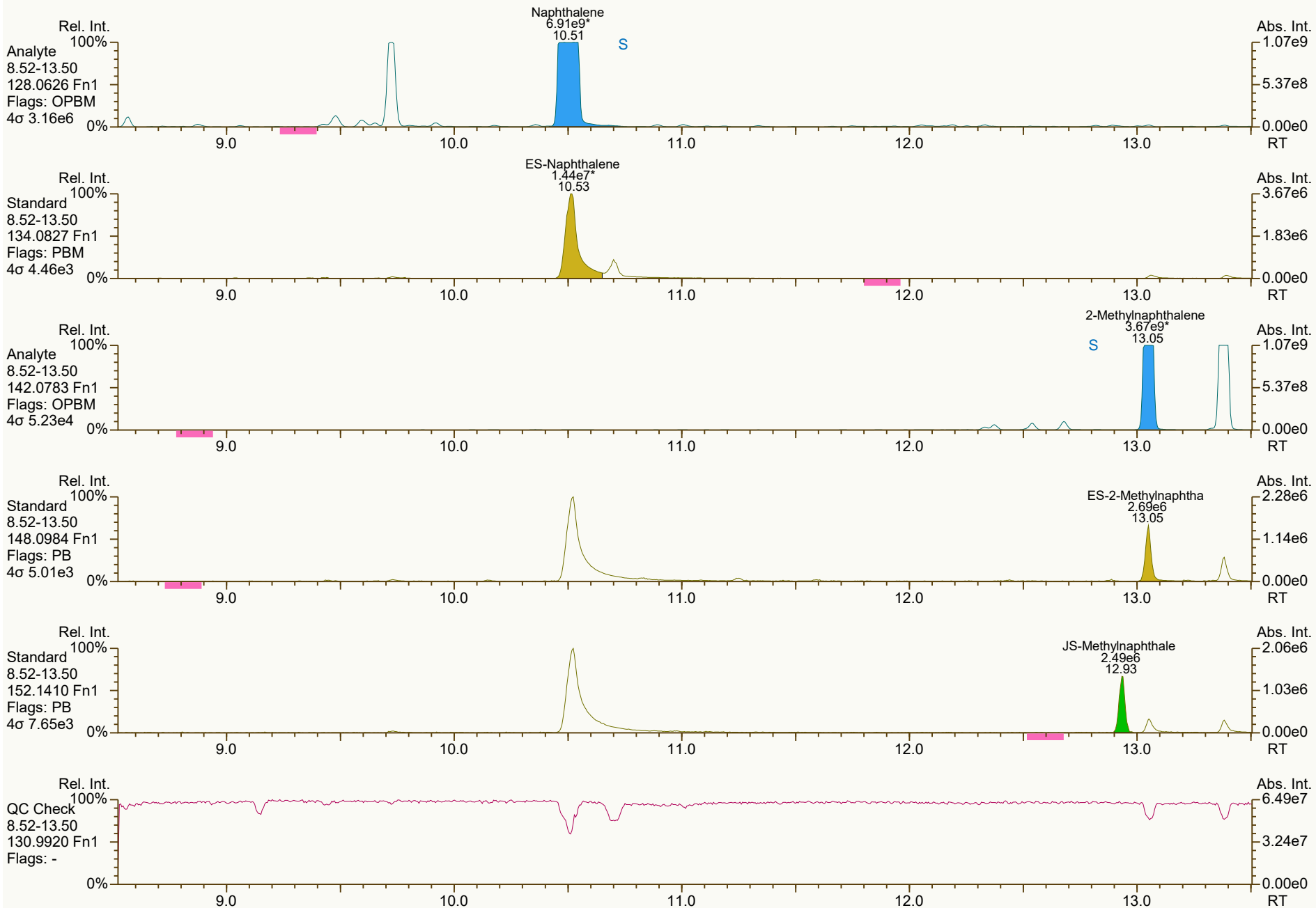
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 378-188

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:28 Page 1 of 9

SGS ID: B9770_21382_PAH_005-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 54

Acq: 20-Sep-2024 03:59:00
User: DTF Datafile: 240919V21



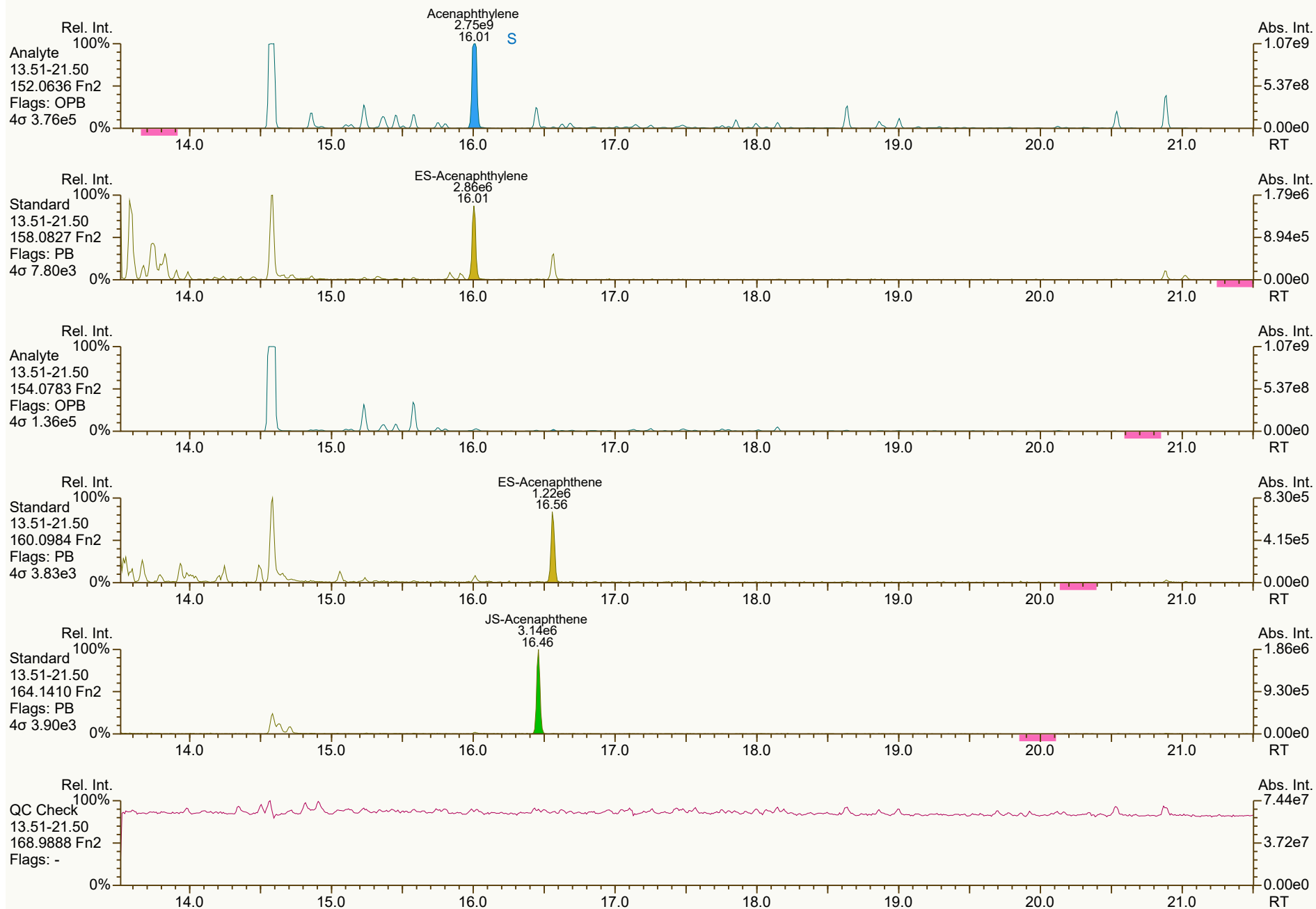
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 6581, 6228, 3211, 5717, 6405 scc: 378-188

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:44 (DTF) Printed: 26-Sep-2024 13:28 Page 2 of 9

SGS ID: B9770_21382_PAH_005-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 54

Acq: 20-Sep-2024 03:59:00
User: DTF Datafile: 240919V21



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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:44 Printed: 26-Sep-2024 13:28 Page 3 of 9

SGS ID: B9770_21382_PAH_005-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 54

Acq: 20-Sep-2024 03:59:00
User: DTF Datafile: 240919V21



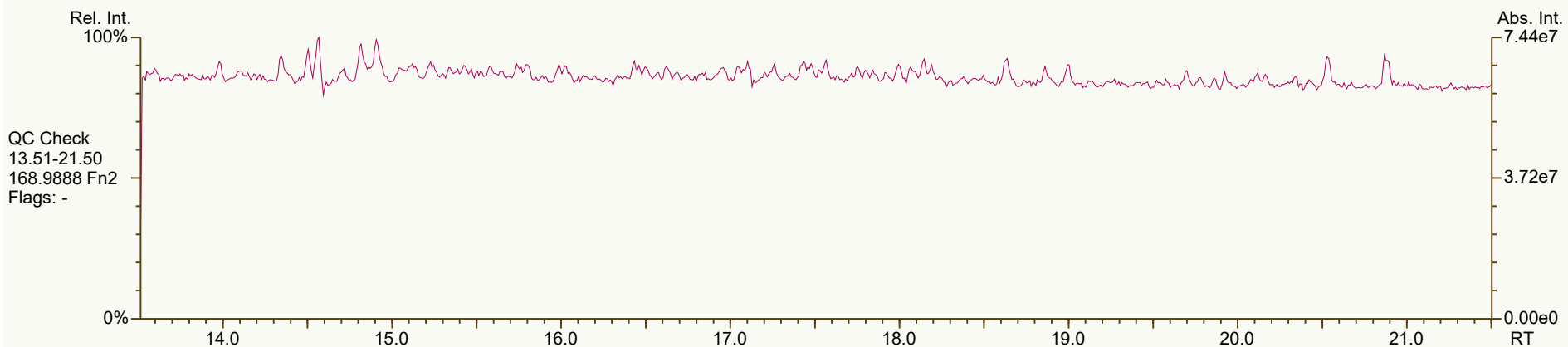
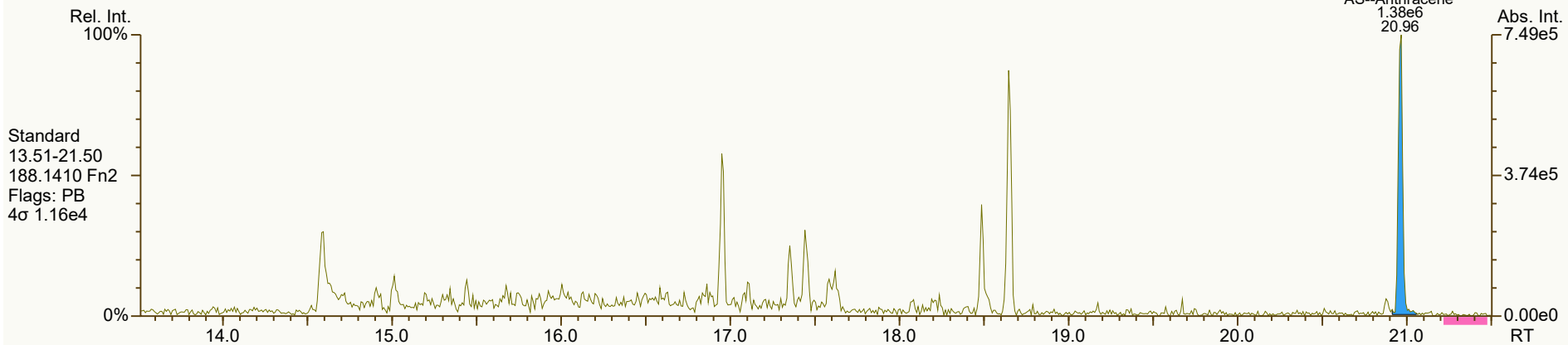
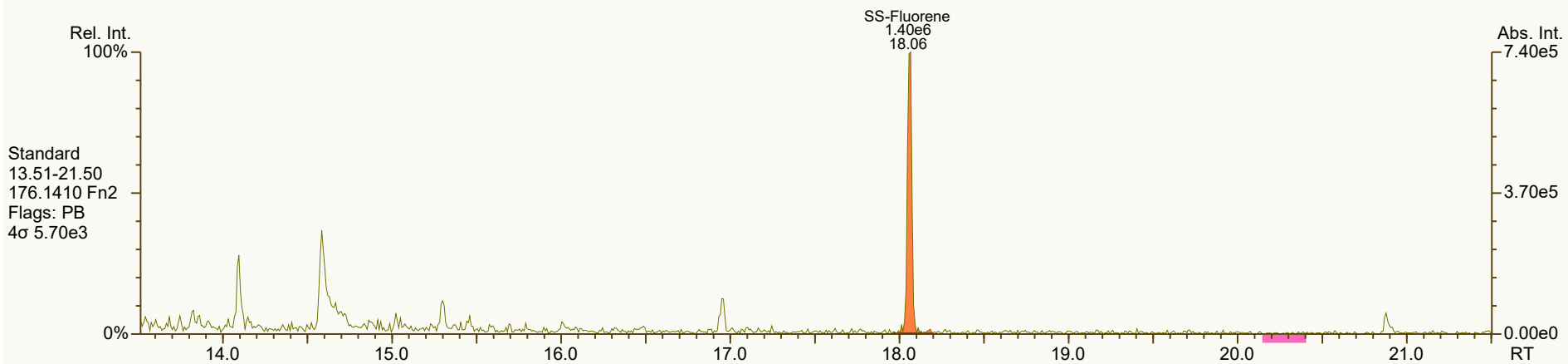
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Peak annotation: Areas, Centroids
Revised: 26-Sep-2024 13:18 (DTF) Printed: 26-Sep-2024 13:28 Page 4 of 9

SGS ID: B9770_21382_PAH_005-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 54

Acq: 20-Sep-2024 03:59:00
User: DTF Datafile: 240919V21



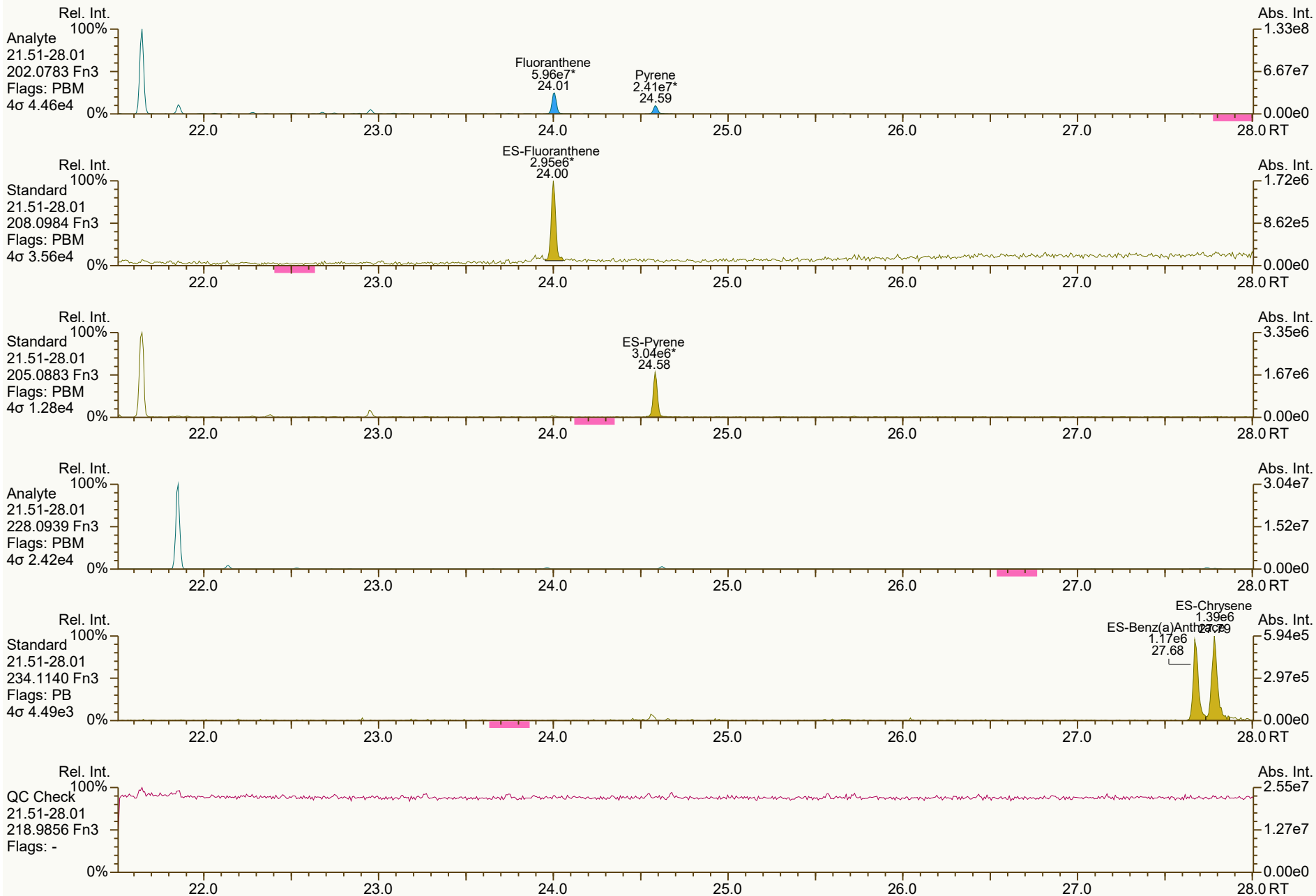
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:44 Printed: 26-Sep-2024 13:28 Page 5 of 9

SGS ID: B9770_21382_PAH_005-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 54

Acq: 20-Sep-2024 03:59:00
User: DTF Datafile: 240919V21



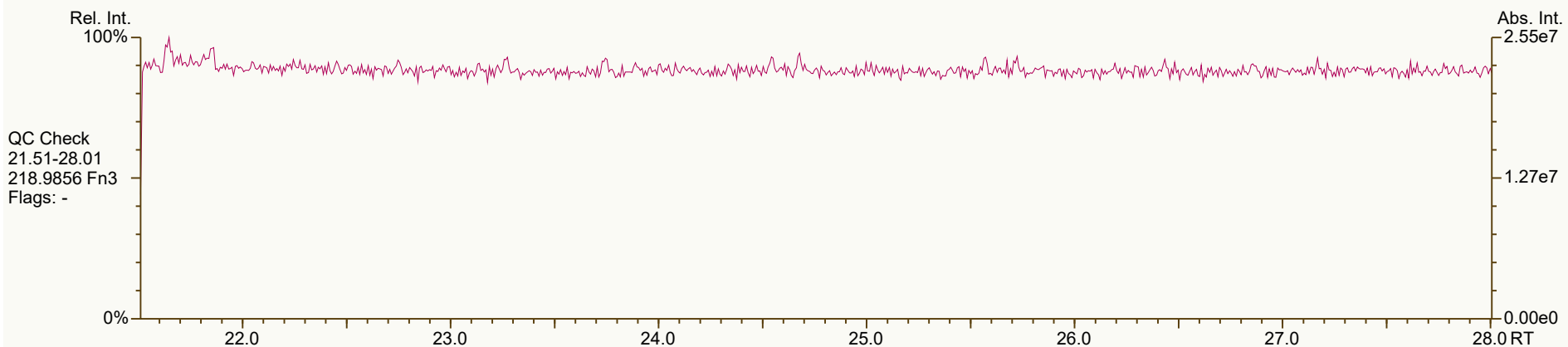
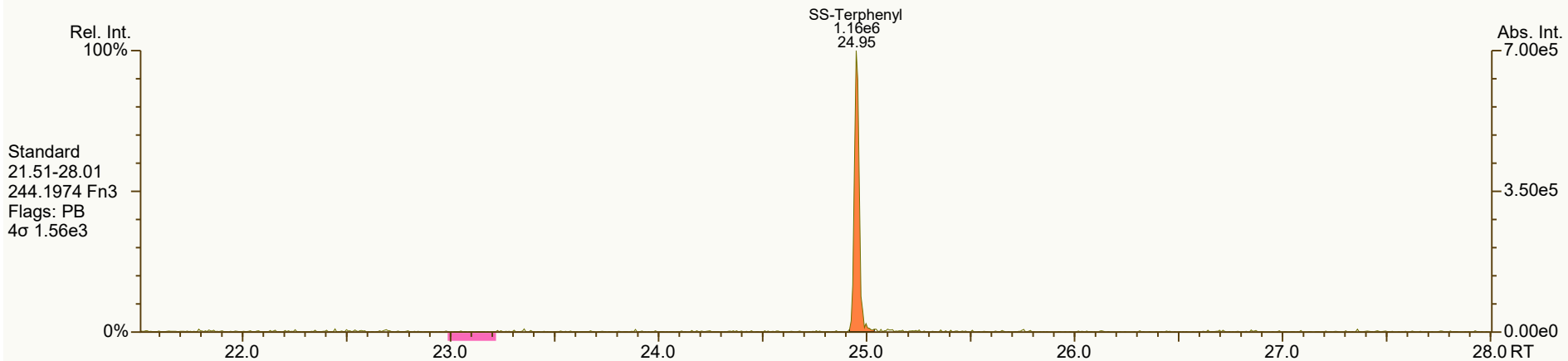
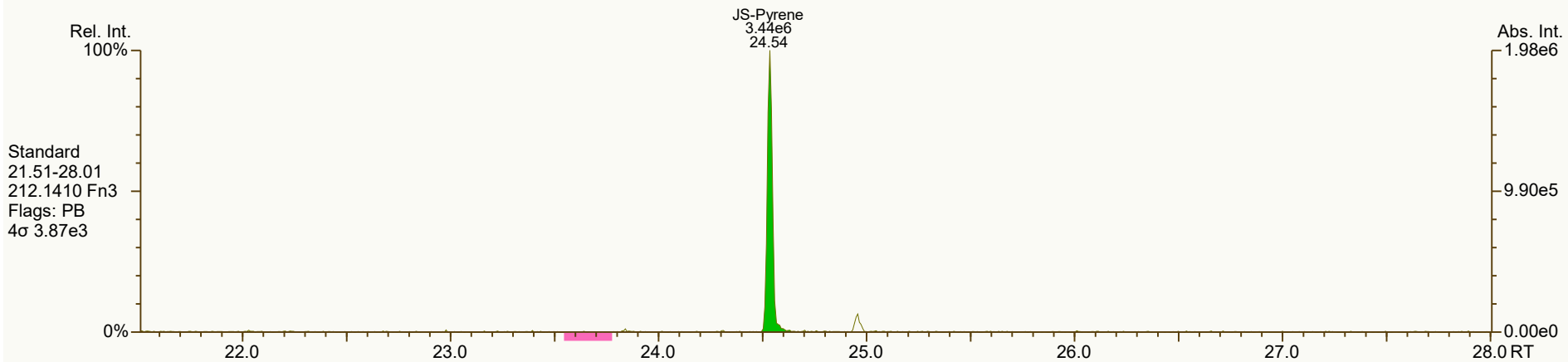
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Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:45 (DTF) Printed: 26-Sep-2024 13:28 Page 6 of 9

SGS ID: B9770_21382_PAH_005-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 54

Acq: 20-Sep-2024 03:59:00
User: DTF Datafile: 240919V21



SGS ID: B9770_21382_PAH_005-D10

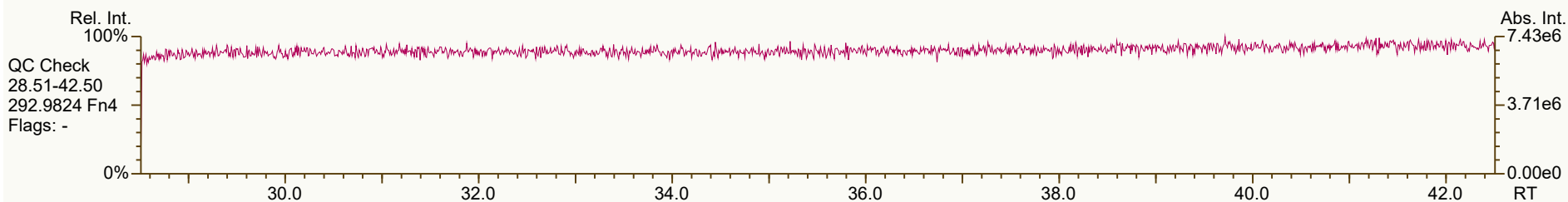
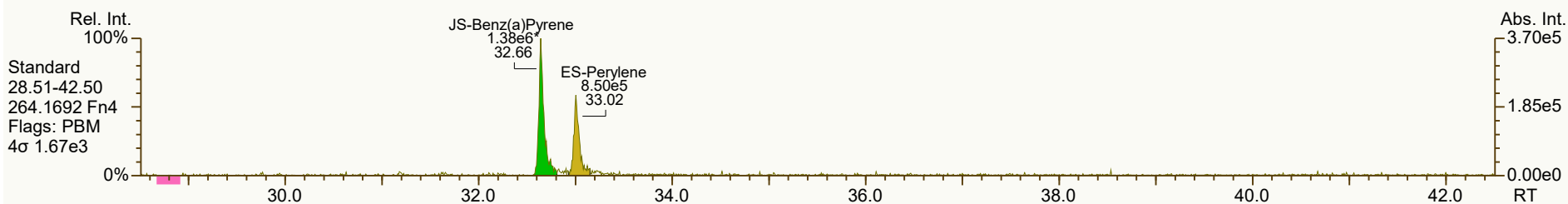
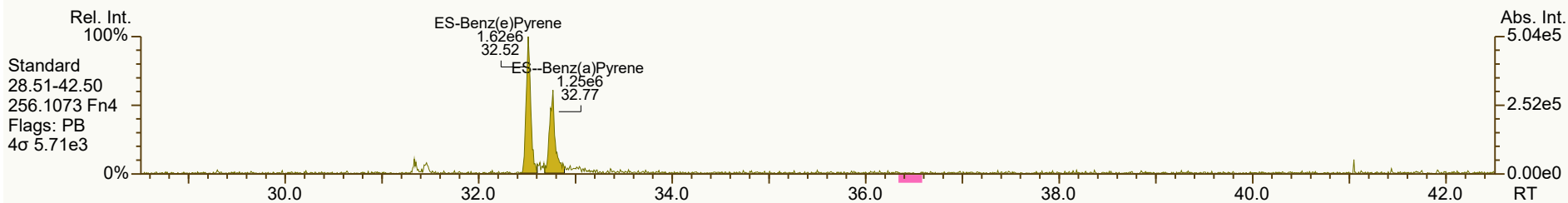
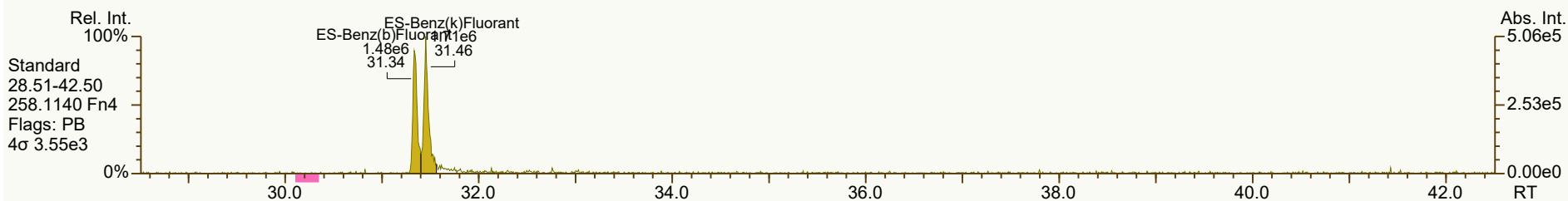
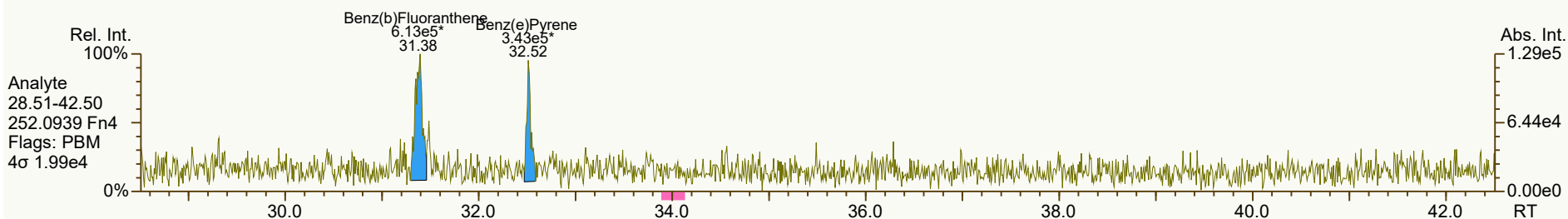
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Sample ID: Test#2 Mill Off

VSIR EI+ Expt: pah GC: pah Vial: 54

Acq: 20-Sep-2024 03:59:00

User: DTF Datafile: 240919V21



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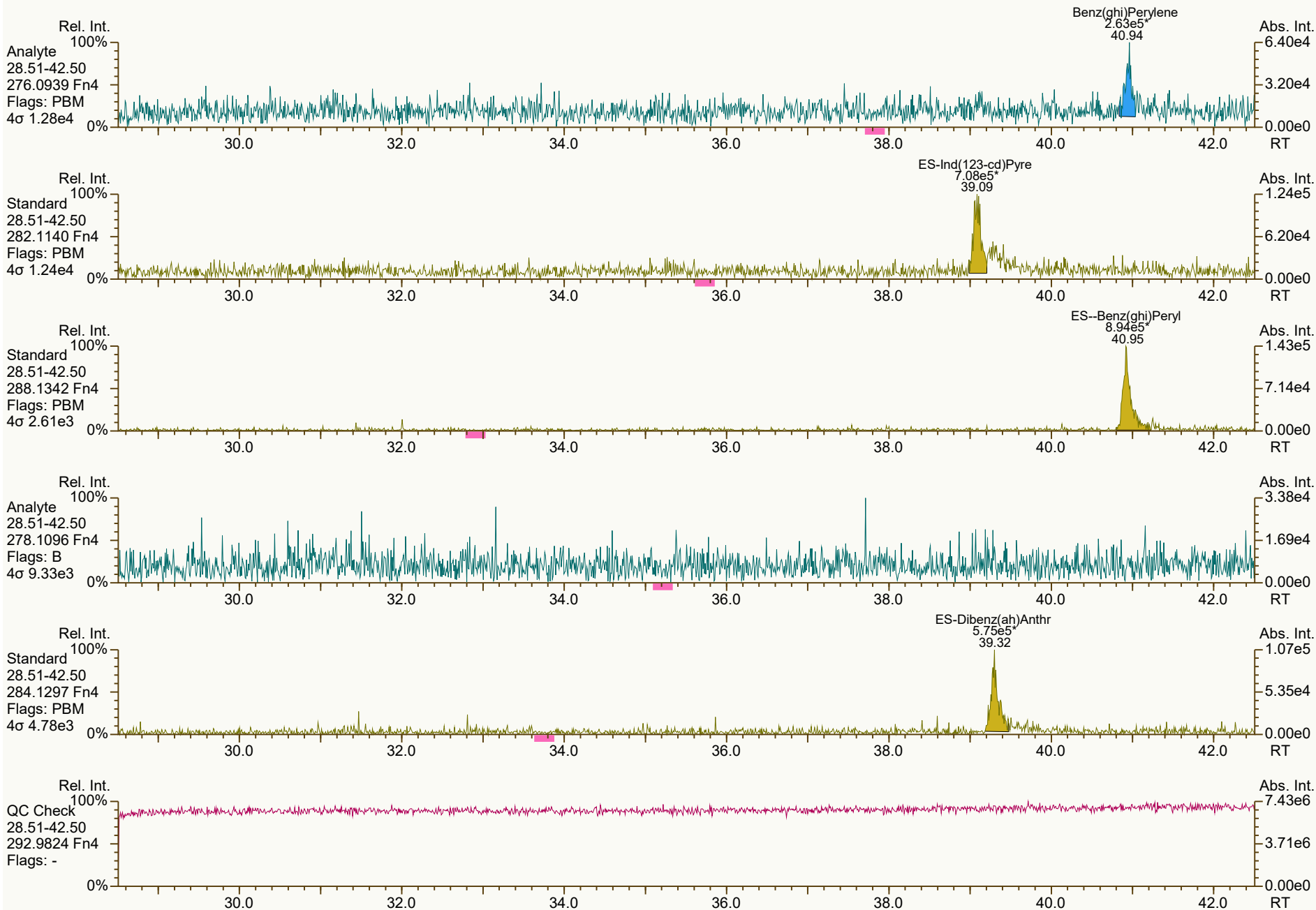
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Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:45 (DTF) Printed: 26-Sep-2024 13:28 Page 8 of 9

SGS ID: B9770_21382_PAH_005-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pah GC: pah Vial: 54

Acq: 20-Sep-2024 03:59:00
User: DTF Datafile: 240919V21



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Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:45 (DTF) Printed: 26-Sep-2024 13:28 Page 9 of 9

Datafile: 240919V22
Acquired: 20 Sep 2024 04:45:45

Client ID: Test#4 Mill On
Lab ID: B9770_21382_PAH_006-D10

Wt/Vol: 1.00 Train
J Level: 4 ng/Train

MM6_PAH_ICAL_05MAR2024
Nominal ES spike: 40 ng

Checkcode: 758-697-HXX

| | | |
|-----------------------------|--------|-------|
| Stats | PAH Ax | ES/SS |
| Largest +ve RT shift (secs) | 0.6 | 1.8 |
| Largest -ve RT shift (secs) | -1.2 | -1.2 |

| Name | Actual | | Pred | Actual | Diff | Response | Ra | Conc | | Noise | DL |
|------------------------|--------|----|--------|--------|------|----------|----|------|----------|----------|----------|
| | RT | QC | RRT | RRT | Secs | | | RRF | ng/Train | | |
| Naphthalene | 10.50 | E | 1.0005 | 1.0005 | 0 | 2.78E+09 | - | 0.99 | 81300 | 8.97E+04 | 15.50000 |
| 2-Methylnaphthalene | 13.05 | E | 1.0004 | 1.0004 | 0 | 5.28E+07 | - | 1.01 | 3620 | 2.48E+04 | 6.65000 |
| Acenaphthylene | 16.01 | | 1.0000 | 1.0006 | +0.6 | 5.79E+06 | - | 0.92 | 253 | 5.40E+04 | 11.30000 |
| Acenaphthene | 16.58 | B | 1.0005 | 1.0005 | 0 | 5.66E+05 | - | 1.01 | 37.3 | 3.52E+04 | 10.50000 |
| Fluorene | 18.16 | B | 1.0000 | 1.0000 | 0 | 9.36E+05 | - | 1.02 | 53.1 | 2.74E+04 | 7.07000 |
| Phenanthrene | 20.88 | E | 1.0004 | 1.0000 | -0.5 | 2.35E+07 | - | 1.00 | 852 | 3.21E+04 | 4.84000 |
| Anthracene | 21.02 | | 1.0000 | 1.0000 | 0 | 1.07E+06 | - | 1.23 | 36.7 | 3.21E+04 | 5.22000 |
| Fluoranthene | 24.01 | | 1.0000 | 1.0000 | 0 | 1.35E+07 | - | 0.92 | 327 | 3.29E+04 | 3.53000 |
| Pyrene | 24.59 | E | 1.0000 | 1.0003 | +0.4 | 2.07E+07 | - | 0.98 | 441 | 3.29E+04 | 3.24000 |
| Benzo(a)Anthracene | 27.69 | B | 1.0000 | 1.0003 | +0.5 | 1.80E+05 | - | 1.00 | 8.4 | 1.34E+04 | 3.19000 |
| Chrysene | 27.79 | | 1.0003 | 1.0003 | 0 | 5.06E+05 | - | 1.01 | 21.1 | 1.34E+04 | 3.20000 |
| Benzo(b)Fluoranthene | 31.35 | | 1.0003 | 1.0003 | 0 | 8.02E+05 | - | 0.98 | 28 | 1.46E+04 | 4.13000 |
| Benzo(k)Fluoranthene | 31.49 | B | 1.0003 | 1.0005 | +0.4 | 2.75E+05 | - | 0.92 | 9.06 | 1.46E+04 | 4.57000 |
| Benzo(e)Pyrene | 32.51 | | 1.0000 | 1.0000 | 0 | 3.86E+06 | - | 0.98 | 135 | 1.46E+04 | 4.30000 |
| Benzo(a)Pyrene | 32.77 | | 1.0003 | 0.9997 | -1.2 | 9.08E+05 | - | 0.98 | 41.9 | 1.46E+04 | 8.65000 |
| Perylene | - | | 1.0039 | 0.0000 | | 0.00E+00 | - | 1.06 | ND | 1.46E+04 | 7.06000 |
| Indeno(1,2,3-cd)Pyrene | 39.10 | | 1.0002 | 1.0000 | -0.5 | 1.16E+06 | - | 0.92 | 78.4 | 1.28E+04 | 15.70000 |
| Dibenzo(a,h)Anthracene | - | | 0.9998 | 0.0000 | | 0.00E+00 | - | 0.94 | ND | 9.07E+03 | 17.80000 |
| Benzo(ghi)Perylene | 40.94 | E | 1.0002 | 1.0004 | +0.5 | 8.84E+06 | - | 0.97 | 494 | 1.28E+04 | 10.50000 |

Datafile: 240919V22
Acquired: 20 Sep 2024 04:45:45

Client ID: Test#4 Mill On
Lab ID: B9770_21382_PAH_006-D10

Wt/Vol: 1.00 Train
J Level: 4 ng/Train

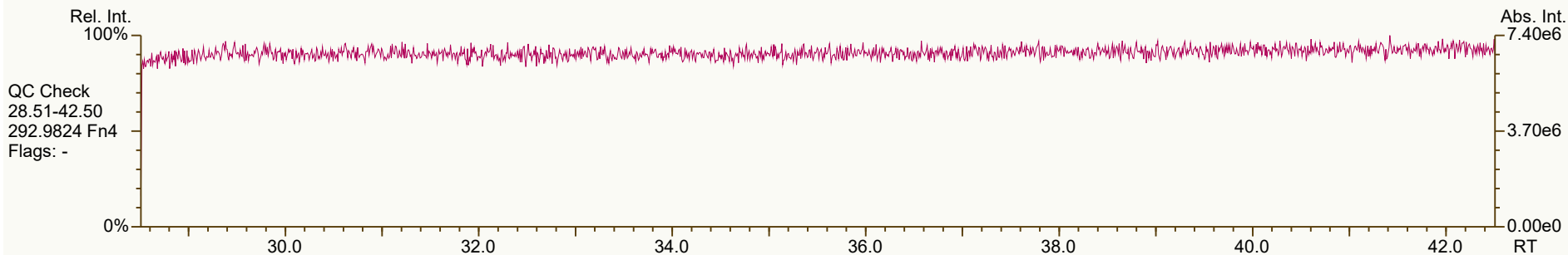
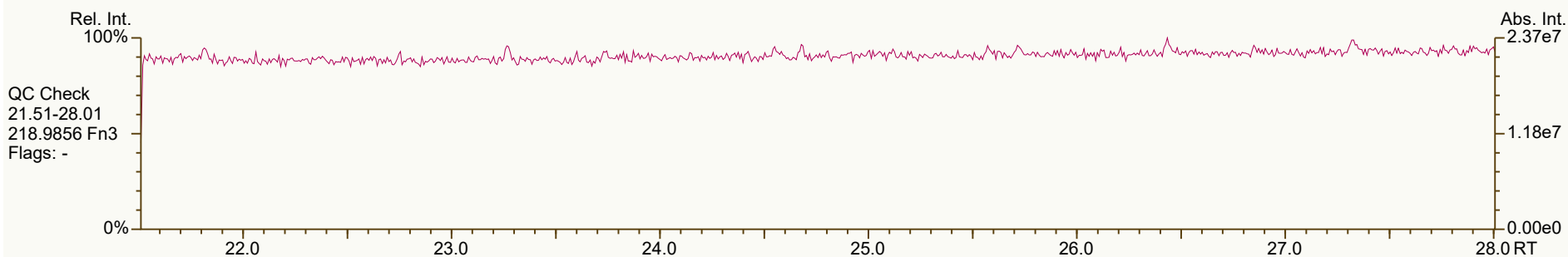
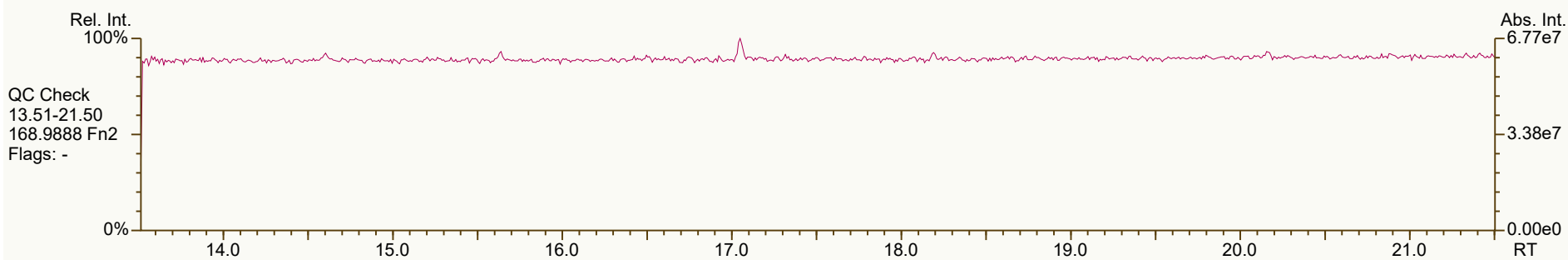
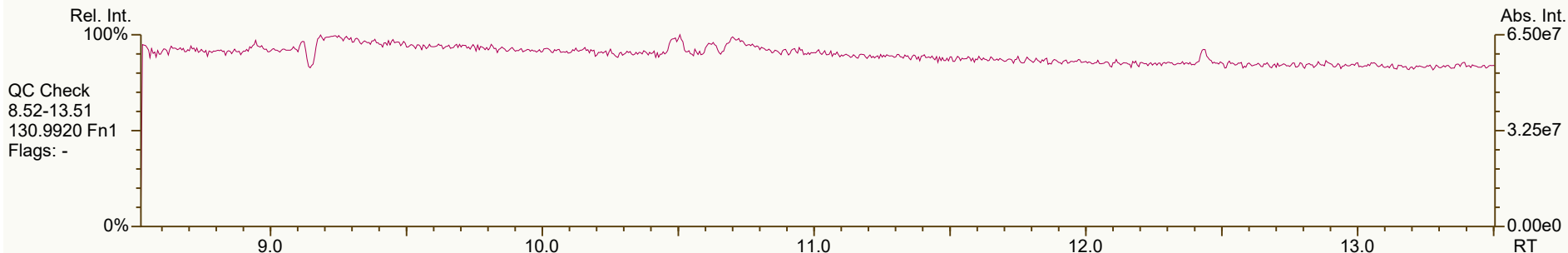
MM6_PAH_ICAL_05MAR2024
Nominal ES spike: 40 ng

| Stats | | PAH Ax | ES/SS | | Checkcode: 758-697-HXX | | | | |
|-------------------------------|--------|--------|--------|--------|------------------------|----------|----|------|-------|
| Largest +ve RT shift (secs) | | 0.6 | 1.8 | | | | | | |
| Largest -ve RT shift (secs) | | -1.2 | -1.2 | | | | | | |
| Name | Actual | | Pred | Actual | Diff | Response | Ra | RRF | Recv. |
| | RT | QC | RRT | RRT | Secs | | | | |
| 13C6-Naphthalene | 10.49 | | 0.8106 | 0.8107 | +0.1 | 1.38E+06 | - | 1.35 | 75.4 |
| 13C6-2-Methylnaphthalene | 13.04 | | 1.0082 | 1.0082 | 0 | 5.79E+05 | - | 0.99 | 43 |
| 13C6-Acenaphthylene | 16.00 | | 0.9723 | 0.9723 | 0 | 9.92E+05 | - | 1.37 | 50.3 |
| 13C6-Acenaphthene | 16.57 | | 1.0060 | 1.0065 | +0.5 | 5.98E+05 | - | 0.91 | 45.6 |
| 13C6-Fluorene | 18.16 | | 1.1025 | 1.1030 | +0.5 | 6.94E+05 | - | 1.09 | 44 |
| 13C6-Phenanthrene | 20.88 | | 1.2679 | 1.2684 | +0.5 | 1.11E+06 | - | 1.91 | 40.2 |
| 13C6-Anthracene | 21.02 | | 1.2766 | 1.2771 | +0.5 | 9.49E+05 | - | 1.35 | 48.8 |
| 13C6-Fluoranthene | 24.01 | | 0.9782 | 0.9782 | 0 | 1.80E+06 | - | 1.23 | 68.6 |
| 13C3-Pyrene | 24.58 | | 1.0020 | 1.0016 | -0.6 | 1.91E+06 | - | 1.23 | 72.2 |
| 13C6-Benzo (a) Anthracene | 27.68 | | 1.1278 | 1.1278 | 0 | 8.55E+05 | - | 0.86 | 46.1 |
| 13C6-Chrysene | 27.78 | H | 1.1321 | 1.1320 | -0.1 | 9.52E+05 | - | 1.19 | 37.4 |
| 13C6-Benzo (b) Fluoranthene | 31.34 | | 0.9600 | 0.9597 | -0.6 | 1.17E+06 | - | 1.28 | 94.1 |
| 13C6-Benzo (k) Fluoranthene | 31.47 | | 0.9634 | 0.9636 | +0.4 | 1.32E+06 | - | 1.82 | 75 |
| 13C4-Benzo (e) Pyrene | 32.51 | | 0.9961 | 0.9956 | -1.0 | 1.17E+06 | - | 1.56 | 77.5 |
| 13C4-Benzo (a) Pyrene | 32.78 | | 1.0031 | 1.0036 | +1.0 | 8.83E+05 | - | 1.23 | 74.2 |
| dl2-Perylene | 33.02 | | 1.0112 | 1.0112 | 0 | 6.51E+05 | - | 1.13 | 59.7 |
| 13C6-Indeno (1,2,3-cd) Pyrene | 39.10 | | 1.1967 | 1.1971 | +0.8 | 6.47E+05 | - | 0.85 | 78.5 |
| 13C6-Dibenzo (ah) Anthracene | 39.33 | | 1.2035 | 1.2044 | +1.8 | 4.63E+05 | - | 0.94 | 50.8 |
| 13C12-Benzo (ghi) Perylene | 40.92 | | 1.2536 | 1.2530 | -1.2 | 7.38E+05 | - | 1.33 | 57.4 |
| AS--Anthracene FS | 20.97 | V | 1.2733 | 1.2739 | +0.6 | 7.04E+05 | - | 1.17 | 41.6 |
| SS-Fluorene | 18.07 | | 0.9951 | 0.9951 | 0 | 5.70E+05 | - | 1.00 | 82 |
| SS-Terphenyl | 24.96 | V | 1.0396 | 1.0396 | 0 | 7.75E+05 | - | 0.79 | 54.1 |
| JS-Methylnaphthalene | 12.94 | | - | - | - | 1.36E+06 | - | - | - |
| JS-Acenaphthene | 16.46 | | - | - | - | 1.44E+06 | - | - | - |
| JS-Pyrene | 24.54 | | - | - | - | 2.14E+06 | - | - | - |
| JS-Benzo (a) Pyrene | 32.66 | | - | - | - | 9.70E+05 | - | - | - |

SGS ID: B9770_21382_PAH_006-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 55

Acq: 20-Sep-2024 04:45:45
User: DTF Datafile: 240919V22



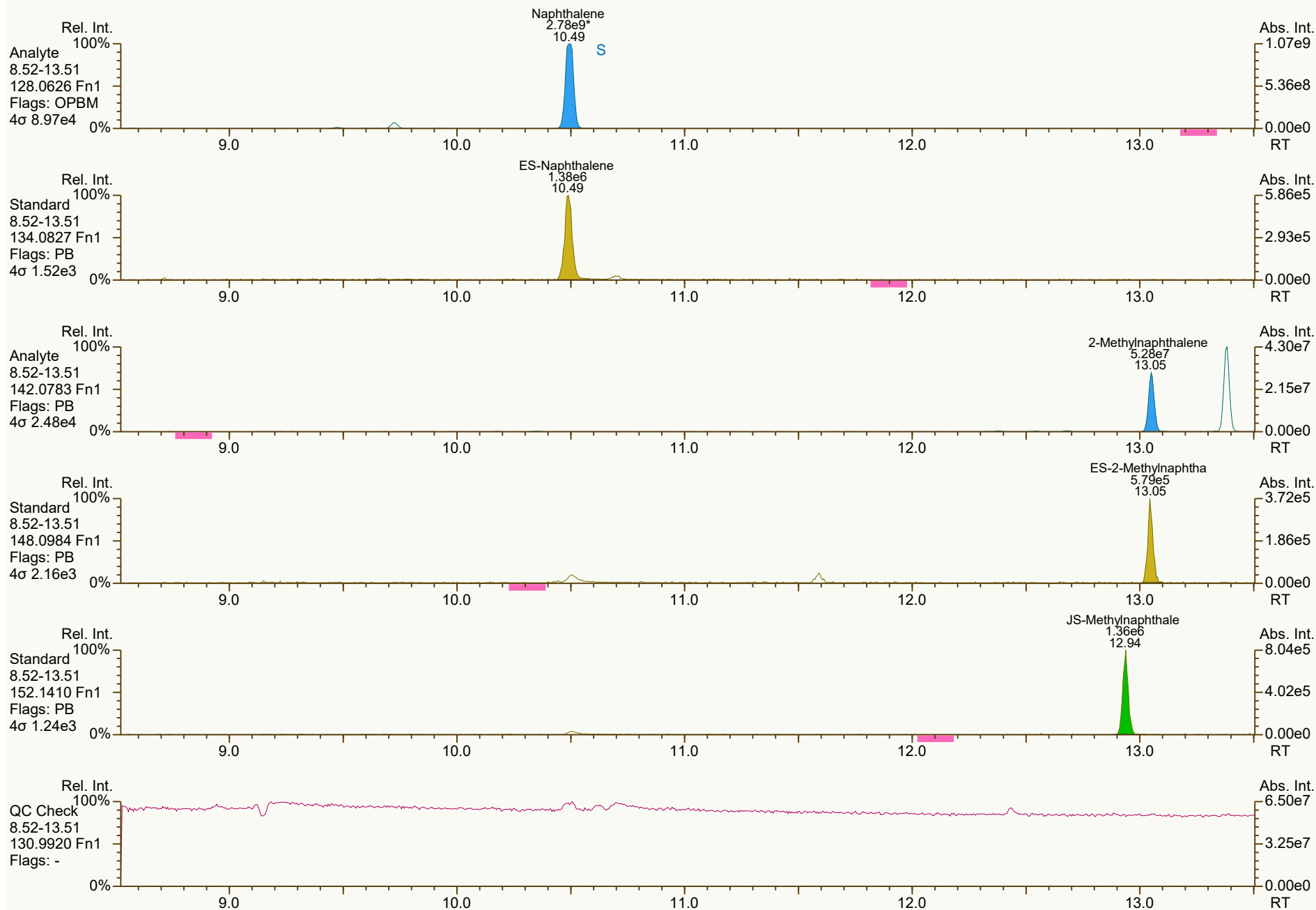
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 758-697

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:28 Page 1 of 9

SGS ID: B9770_21382_PAH_006-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 55

Acq: 20-Sep-2024 04:45:45
User: DTF Datafile: 240919V22



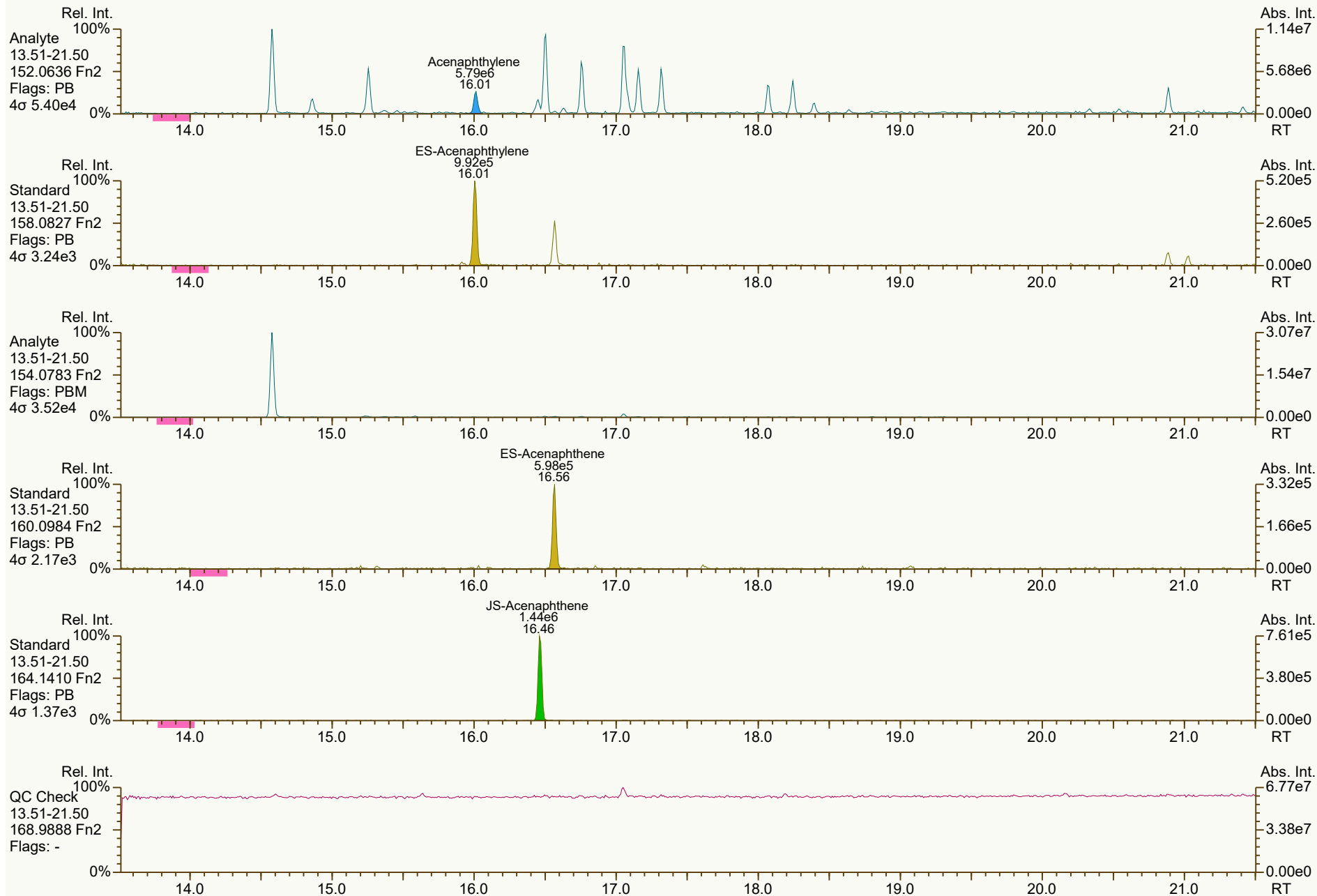
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 6691, 9387, 0722, 4720, 6516 scc: 758-697

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:46 (DTF) Printed: 26-Sep-2024 13:28 Page 2 of 9

SGS ID: B9770_21382_PAH_006-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 55

Acq: 20-Sep-2024 04:45:45
User: DTF Datafile: 240919V22



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_006-D10.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 4385, 3616, 9260, 7508, 5523 scc: 758-697

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:46 (DTF) Printed: 26-Sep-2024 13:28 Page 3 of 9

SGS ID: B9770_21382_PAH_006-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 55

Acq: 20-Sep-2024 04:45:45
User: DTF Datafile: 240919V22



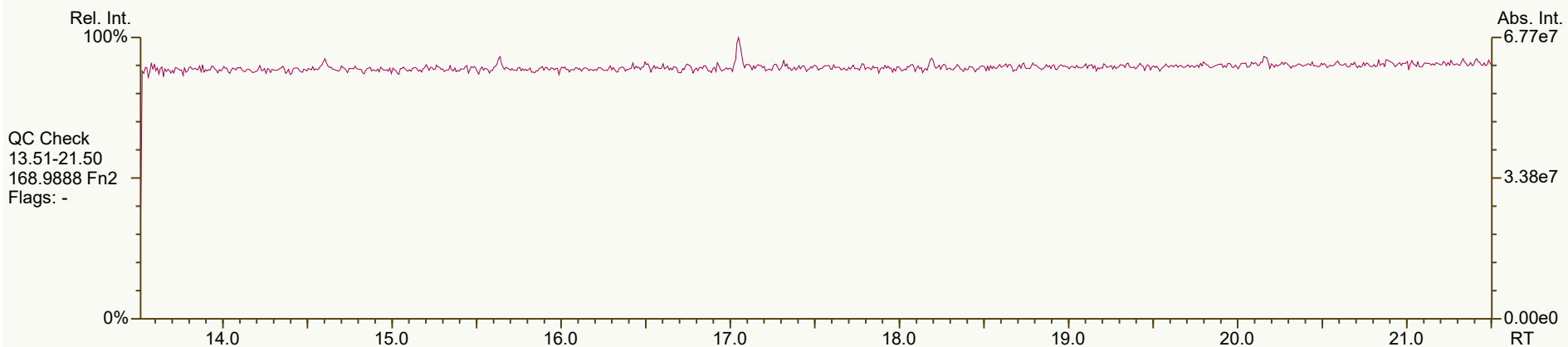
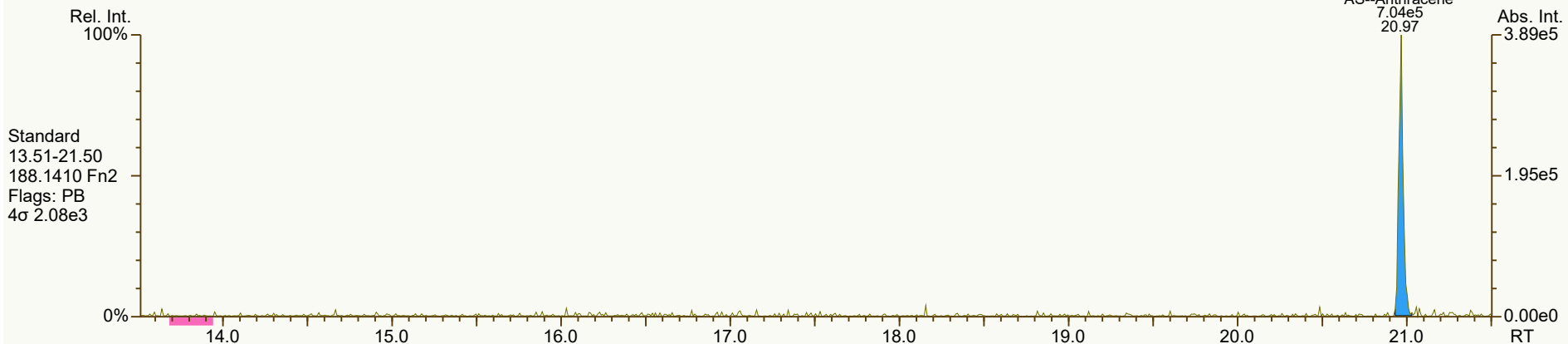
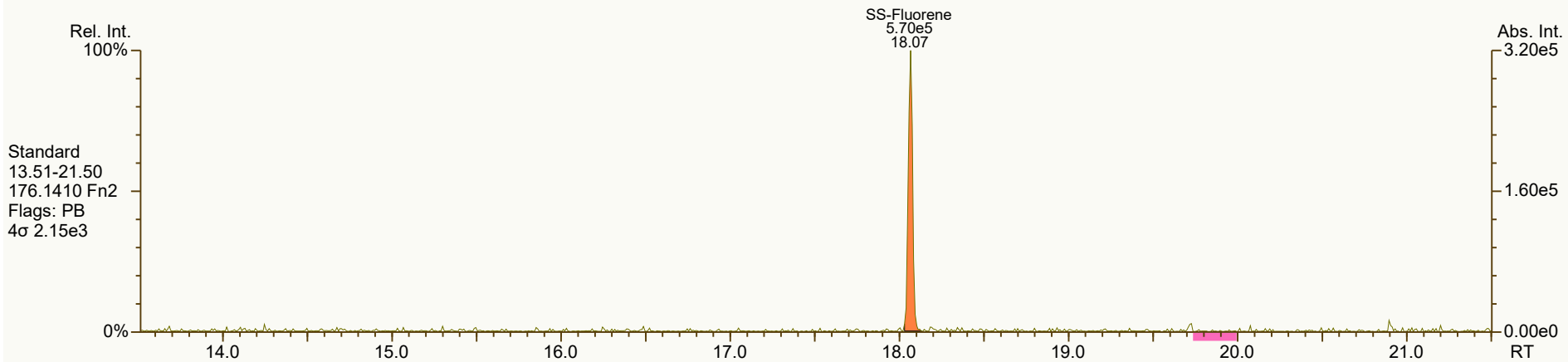
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1476, 6828, 1785, 9708 scc: 758-697

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:47 (DTF) Printed: 26-Sep-2024 13:28 Page 4 of 9

SGS ID: B9770_21382_PAH_006-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 55

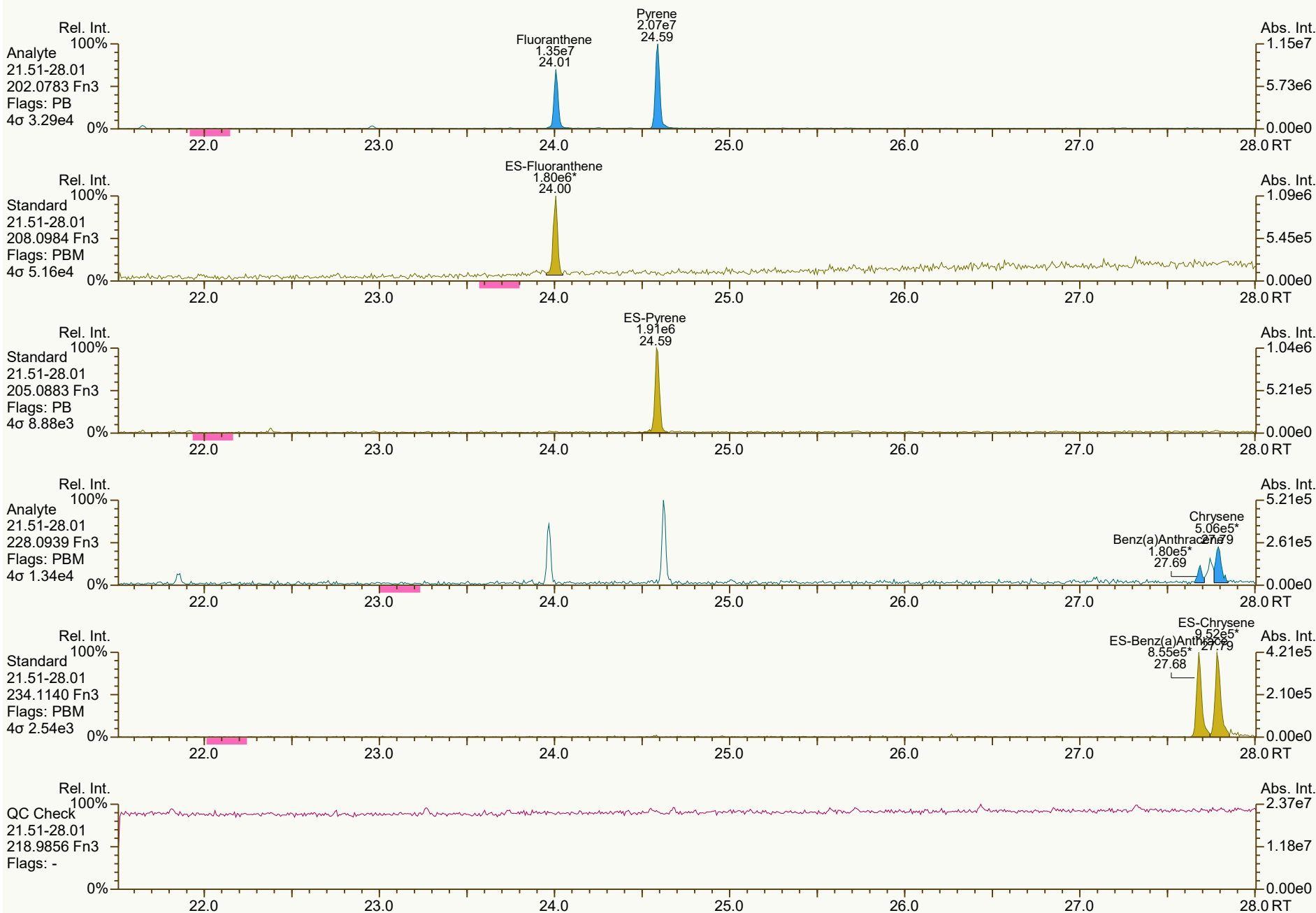
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User: DTF Datafile: 240919V22



SGS ID: B9770_21382_PAH_006-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 55

Acq: 20-Sep-2024 04:45:45
User: DTF Datafile: 240919V22



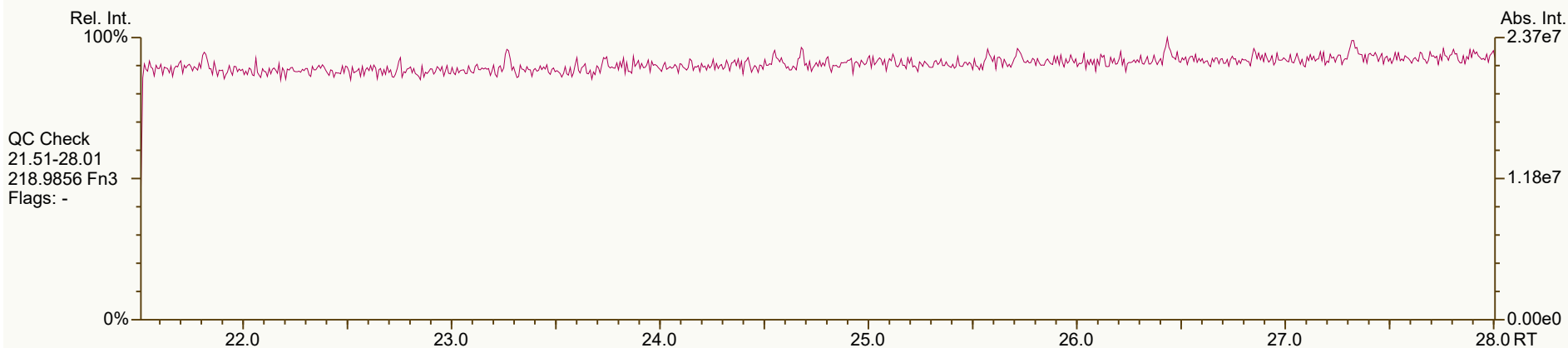
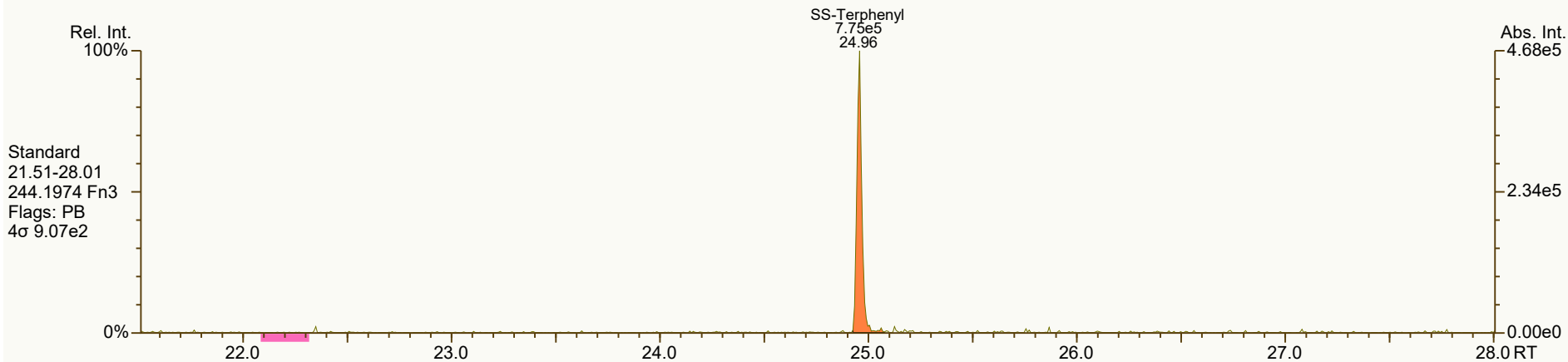
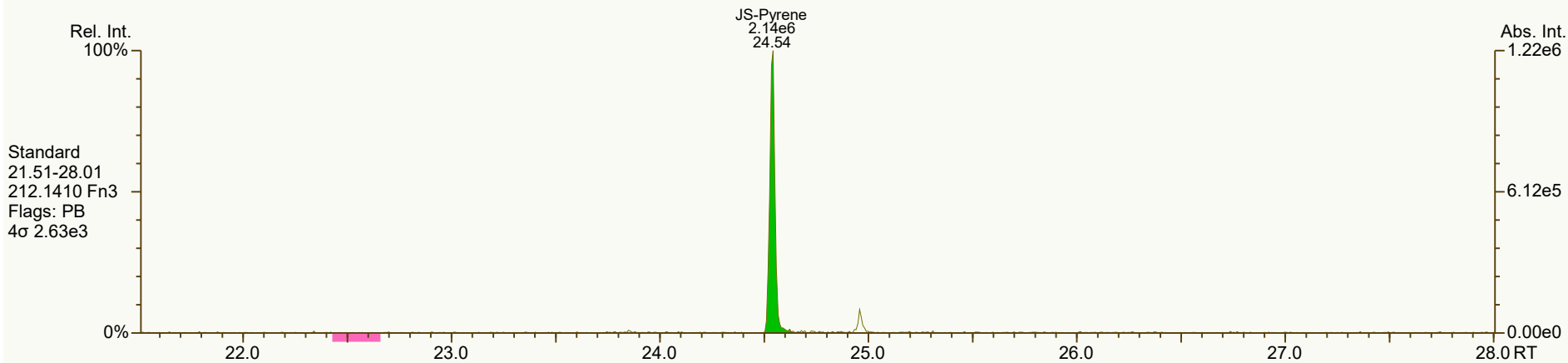
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 9933, 1240, 7460, 2940, 0448 scc: 758-697

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:47 (DTF) Printed: 26-Sep-2024 13:28 Page 6 of 9

SGS ID: B9770_21382_PAH_006-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 55

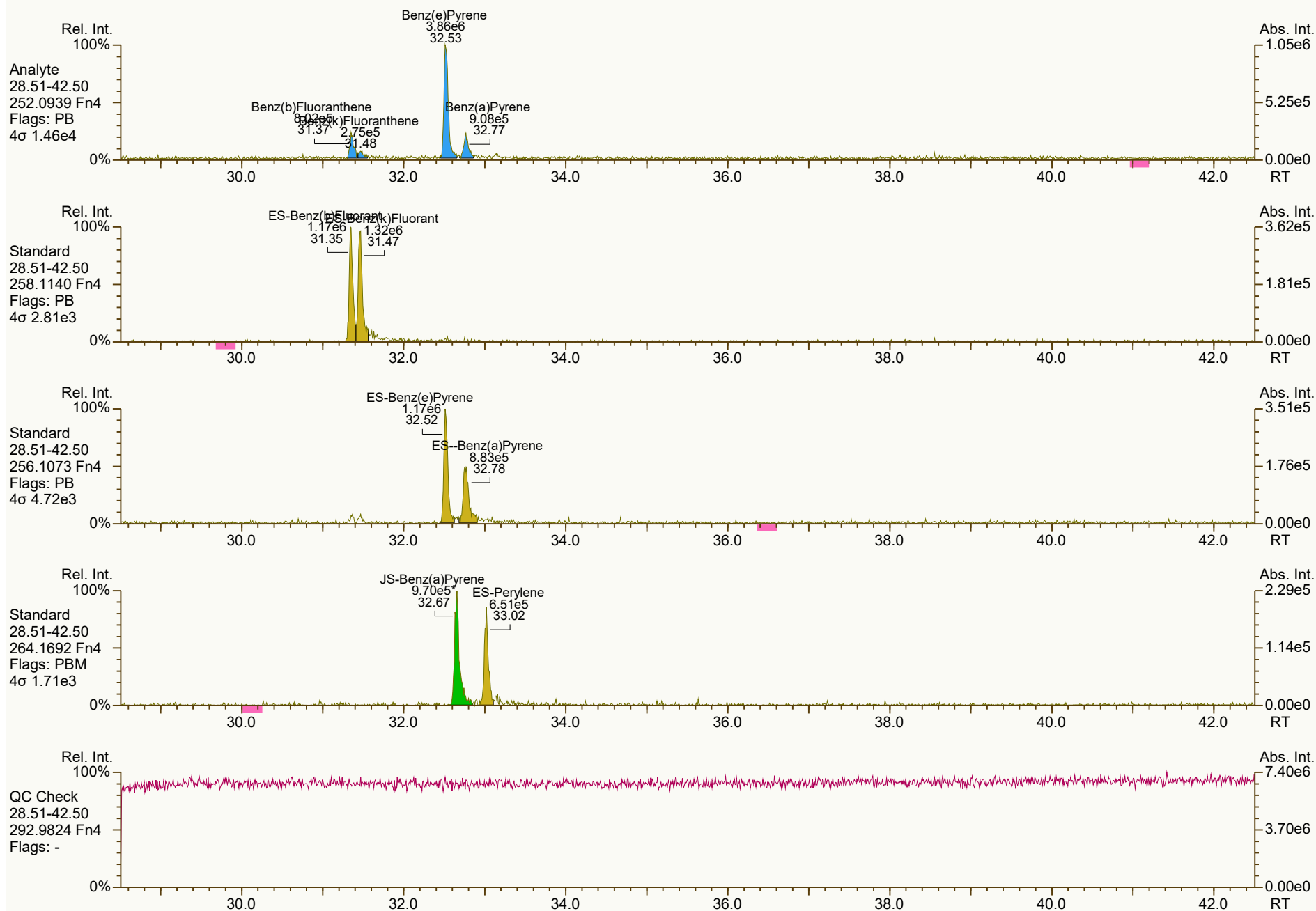
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User: DTF Datafile: 240919V22



SGS ID: B9770_21382_PAH_006-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 55

Acq: 20-Sep-2024 04:45:45
User: DTF Datafile: 240919V22



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_006-D10.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 8970, 0940, 6721, 8867 scc: 758-697

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:46 (DTF) Printed: 26-Sep-2024 13:28 Page 8 of 9

SGS ID: B9770_21382_PAH_006-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 55

Acq: 20-Sep-2024 04:45:45
User: DTF Datafile: 240919V22



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_006-D10.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 7758, 9472, 2235, 6199, 4500 scc: 758-697

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:47 (DTF) Printed: 26-Sep-2024 13:28 Page 9 of 9

| Stats | | PAH Ax | ES/SS | | Checkcode: 219-876-DCT | | | | | | |
|-----------------------------|--------|--------|--------|--------|------------------------|----------|----|------|----------|----------|----------|
| Largest +ve RT shift (secs) | | 0.6 | 2.5 | | | | | | | | |
| Largest -ve RT shift (secs) | | -0.6 | -0.6 | | | | | | | | |
| Name | Actual | | Pred | Actual | Diff | Response | Ra | Conc | | | |
| | RT | QC | RRT | RRT | Secs | | | RRF | ng/Train | Noise | DL |
| Naphthalene | 10.48 | E | 1.0005 | 0.9995 | -0.6 | 3.31E+09 | - | 0.99 | 67700 | 1.71E+05 | 20.70000 |
| 2-Methylnaphthalene | 13.04 | E | 1.0004 | 1.0000 | -0.3 | 8.21E+07 | - | 1.01 | 4120 | 3.55E+04 | 8.64000 |
| Acenaphthylene | 16.00 | | 1.0000 | 1.0006 | +0.6 | 8.18E+06 | - | 0.92 | 233 | 1.06E+05 | 14.40000 |
| Acenaphthene | 16.56 | B | 1.0005 | 1.0000 | -0.5 | 9.14E+05 | - | 1.01 | 41.9 | 4.04E+04 | 8.10000 |
| Fluorene | 18.15 | B | 1.0000 | 1.0000 | 0 | 1.08E+06 | - | 1.02 | 37.7 | 2.44E+04 | 3.63000 |
| Phenanthrene | 20.88 | | 1.0004 | 1.0004 | 0 | 1.56E+07 | - | 1.00 | 356 | 3.41E+04 | 3.36000 |
| Anthracene | 21.02 | B | 1.0000 | 1.0004 | +0.5 | 8.58E+05 | - | 1.23 | 16.6 | 3.41E+04 | 3.02000 |
| Fluoranthene | 24.00 | B | 1.0000 | 1.0000 | 0 | 4.09E+06 | - | 0.92 | 57.2 | 3.43E+04 | 2.02000 |
| Pyrene | 24.58 | B | 1.0000 | 1.0003 | +0.4 | 3.10E+06 | - | 0.98 | 39.5 | 3.43E+04 | 2.03000 |
| Benzo (a) Anthracene | - | | 1.0000 | 0.0000 | | 0.00E+00 | - | 1.00 | ND | 1.63E+04 | 2.59000 |
| Chrysene | 27.79 | B | 1.0003 | 1.0006 | +0.5 | 1.64E+05 | - | 1.01 | 4.09 | 1.63E+04 | 2.48000 |
| Benzo (b) Fluoranthene | - | | 1.0003 | 0.0000 | | 0.00E+00 | - | 0.98 | ND | 1.61E+04 | 3.04000 |
| Benzo (k) Fluoranthene | - | | 1.0003 | 0.0000 | | 0.00E+00 | - | 0.92 | ND | 1.61E+04 | 3.40000 |
| Benzo (e) Pyrene | - | | 1.0000 | 0.0000 | | 0.00E+00 | - | 0.98 | ND | 1.61E+04 | 3.10000 |
| Benzo (a) Pyrene | - | | 1.0003 | 0.0000 | | 0.00E+00 | - | 0.98 | ND | 1.61E+04 | 4.15000 |
| Perylene | - | | 1.0039 | 0.0000 | | 0.00E+00 | - | 1.06 | ND | 1.61E+04 | 5.64000 |
| Indeno (1,2,3-cd) Pyrene | - | | 1.0002 | 0.0000 | | 0.00E+00 | - | 0.92 | ND | 1.25E+04 | 11.40000 |
| Dibenzo (a,h) Anthracene | - | | 0.9998 | 0.0000 | | 0.00E+00 | - | 0.94 | ND | 8.47E+03 | 12.30000 |
| Benzo (ghi) Perylene | - | | 1.0002 | 0.0000 | | 0.00E+00 | - | 0.97 | ND | 1.25E+04 | 7.25000 |

| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|
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Datafile: 240919V23

Client ID: Test#5 Mill On

Wt/Vol: 1.00 Train

MM6_PAH_ICAL_05MAR2024

Acquired: 20 Sep 2024 05:32:25

Lab ID: B9770_21382_PAH_007-D10

J Level: 4 ng/Train

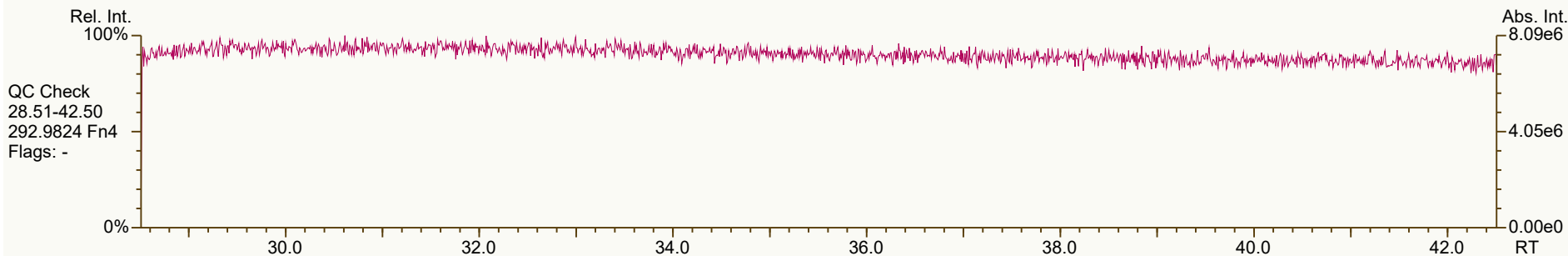
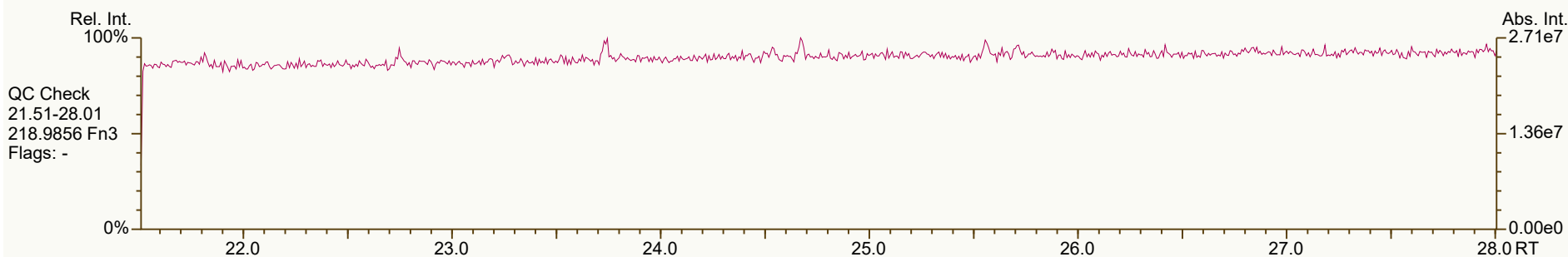
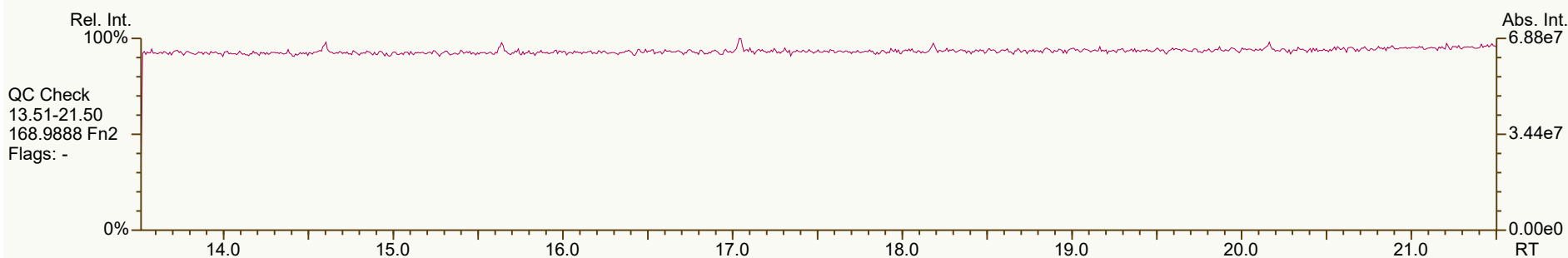
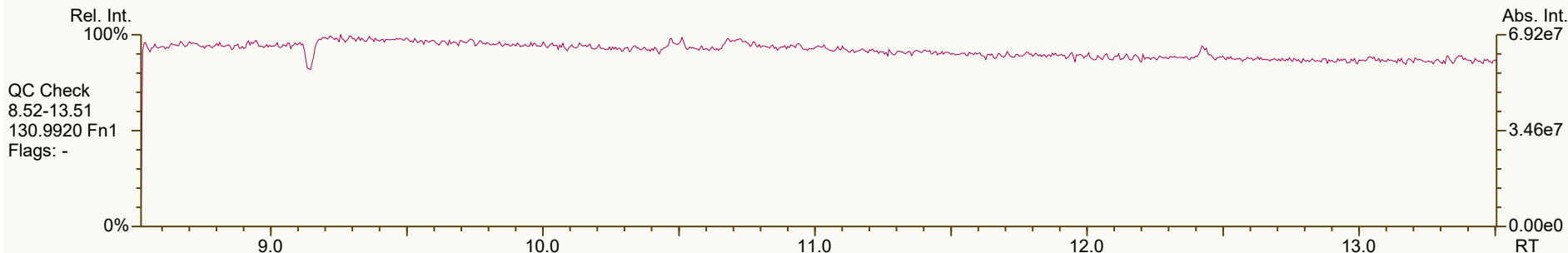
Nominal ES spike: 40 ng

| | | Stats | PAH Ax | ES/SS | Checkcode: 219-876-DCT | | | | |
|-------------------------------|--------------|-------|-------------|---------------|------------------------|----------|----|------|-------|
| Largest +ve RT shift (secs) | | | 0.6 | 2.5 | | | | | |
| Largest -ve RT shift (secs) | | | -0.6 | -0.6 | | | | | |
| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Recv. |
| 13C6-Naphthalene | 10.48 | | 0.8106 | 0.8110 | +0.3 | 1.97E+06 | - | 1.35 | 67.4 |
| 13C6-2-Methylnaphthalene | 13.04 | H | 1.0082 | 1.0090 | +0.6 | 7.91E+05 | - | 0.99 | 36.8 |
| 13C6-Acenaphthylene | 16.00 | | 0.9723 | 0.9718 | -0.5 | 1.52E+06 | - | 1.37 | 47.9 |
| 13C6-Acenaphthene | 16.56 | | 1.0060 | 1.0060 | 0 | 8.61E+05 | - | 0.91 | 40.8 |
| 13C6-Fluorene | 18.15 | | 1.1025 | 1.1025 | 0 | 1.13E+06 | - | 1.09 | 44.7 |
| 13C6-Phenanthrene | 20.87 | H | 1.2679 | 1.2679 | 0 | 1.75E+06 | - | 1.91 | 39.5 |
| 13C6-Anthracene | 21.01 | | 1.2766 | 1.2766 | 0 | 1.68E+06 | - | 1.35 | 53.8 |
| 13C6-Fluoranthene | 24.00 | | 0.9782 | 0.9782 | 0 | 3.12E+06 | - | 1.23 | 72.4 |
| 13C3-Pyrene | 24.57 | | 1.0020 | 1.0016 | -0.6 | 3.21E+06 | - | 1.23 | 73.9 |
| 13C6-Benzo (a) Anthracene | 27.67 | | 1.1278 | 1.1278 | 0 | 1.38E+06 | - | 0.86 | 45.3 |
| 13C6-Chrysene | 27.77 | H | 1.1321 | 1.1320 | -0.1 | 1.59E+06 | - | 1.19 | 38 |
| 13C6-Benzo (b) Fluoranthene | 31.33 | | 0.9600 | 0.9600 | 0 | 1.68E+06 | - | 1.28 | 93.2 |
| 13C6-Benzo (k) Fluoranthene | 31.45 | | 0.9634 | 0.9636 | +0.4 | 1.99E+06 | - | 1.82 | 77.5 |
| 13C4-Benzo (e) Pyrene | 32.50 | | 0.9961 | 0.9958 | -0.6 | 1.76E+06 | - | 1.56 | 79.8 |
| 13C4-Benzo (a) Pyrene | 32.75 | | 1.0031 | 1.0034 | +0.6 | 1.34E+06 | - | 1.23 | 77.4 |
| dl2-Perylene | 33.01 | | 1.0112 | 1.0112 | 0 | 1.04E+06 | - | 1.13 | 65.2 |
| 13C6-Indeno (1,2,3-cd) Pyrene | 39.10 | | 1.1967 | 1.1980 | +2.5 | 8.48E+05 | - | 0.85 | 70.5 |
| 13C6-Dibenzo (ah) Anthracene | 39.28 | | 1.2035 | 1.2035 | 0 | 6.76E+05 | - | 0.94 | 50.8 |
| 13C12-Benzo (ghi) Perylene | 40.95 | | 1.2536 | 1.2547 | +2.2 | 1.01E+06 | - | 1.33 | 53.9 |
| AS--Anthracene FS | 20.96 | V | 1.2733 | 1.2733 | 0 | 1.31E+06 | - | 1.17 | 48.2 |
| SS-Fluorene | 18.06 | | 0.9951 | 0.9951 | 0 | 9.40E+05 | - | 1.00 | 82.8 |
| SS-Terphenyl | 24.95 | V | 1.0396 | 1.0396 | 0 | 1.48E+06 | - | 0.79 | 59.5 |
| JS-Methylnaphthalene | 12.93 | | - | - | - | 2.17E+06 | - | - | - |
| JS-Acenaphthene | 16.46 | | - | - | - | 2.32E+06 | - | - | - |
| JS-Pyrene | 24.53 | | - | - | - | 3.52E+06 | - | - | - |
| JS-Benzo (a) Pyrene | 32.64 | | - | - | - | 1.41E+06 | - | - | - |

SGS ID: B9770_21382_PAH_007-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 56

Acq: 20-Sep-2024 05:32:25
User: DTF Datafile: 240919V23



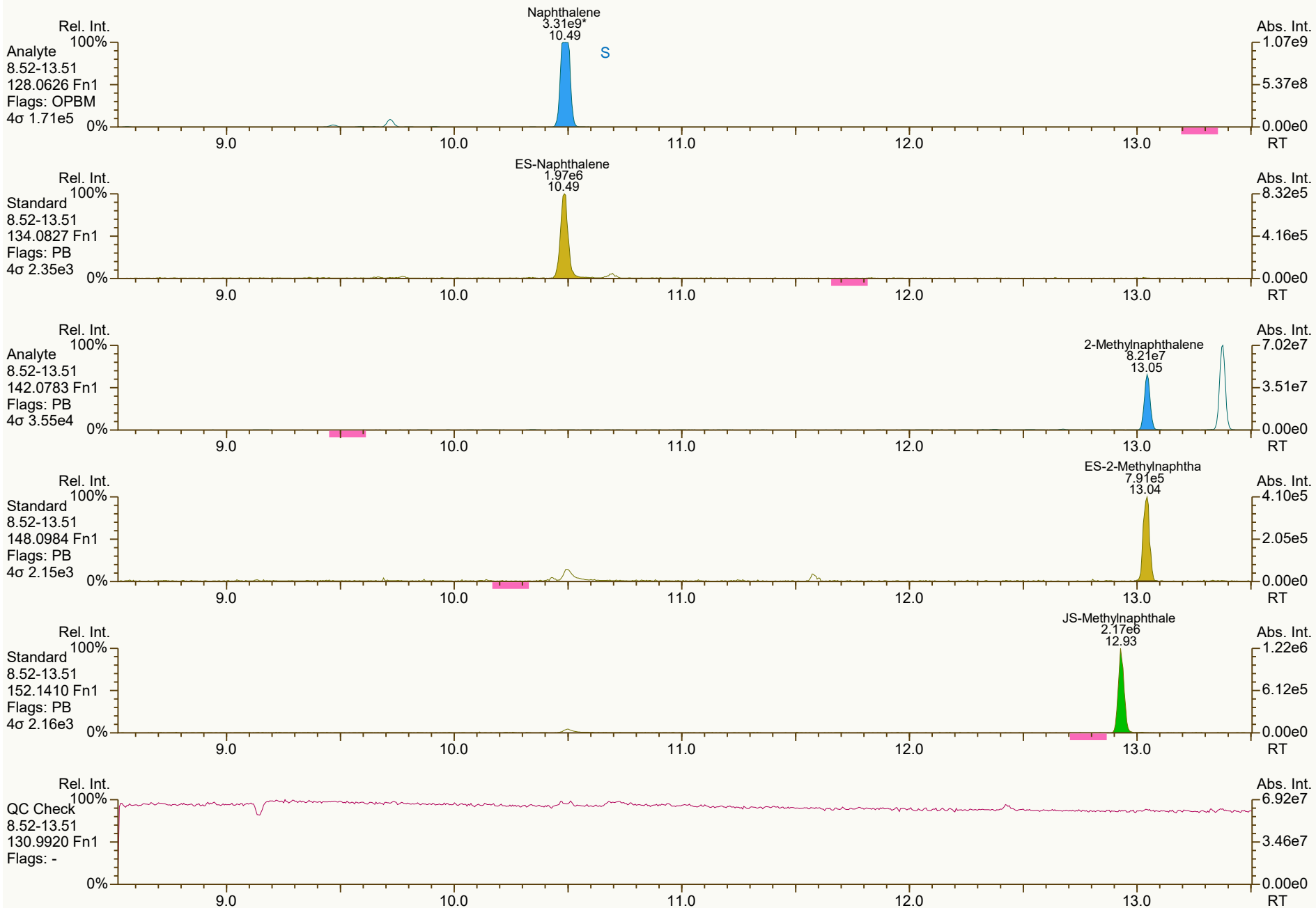
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 219-876

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:28 Page 1 of 9

SGS ID: B9770_21382_PAH_007-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 56

Acq: 20-Sep-2024 05:32:25
User: DTF Datafile: 240919V23



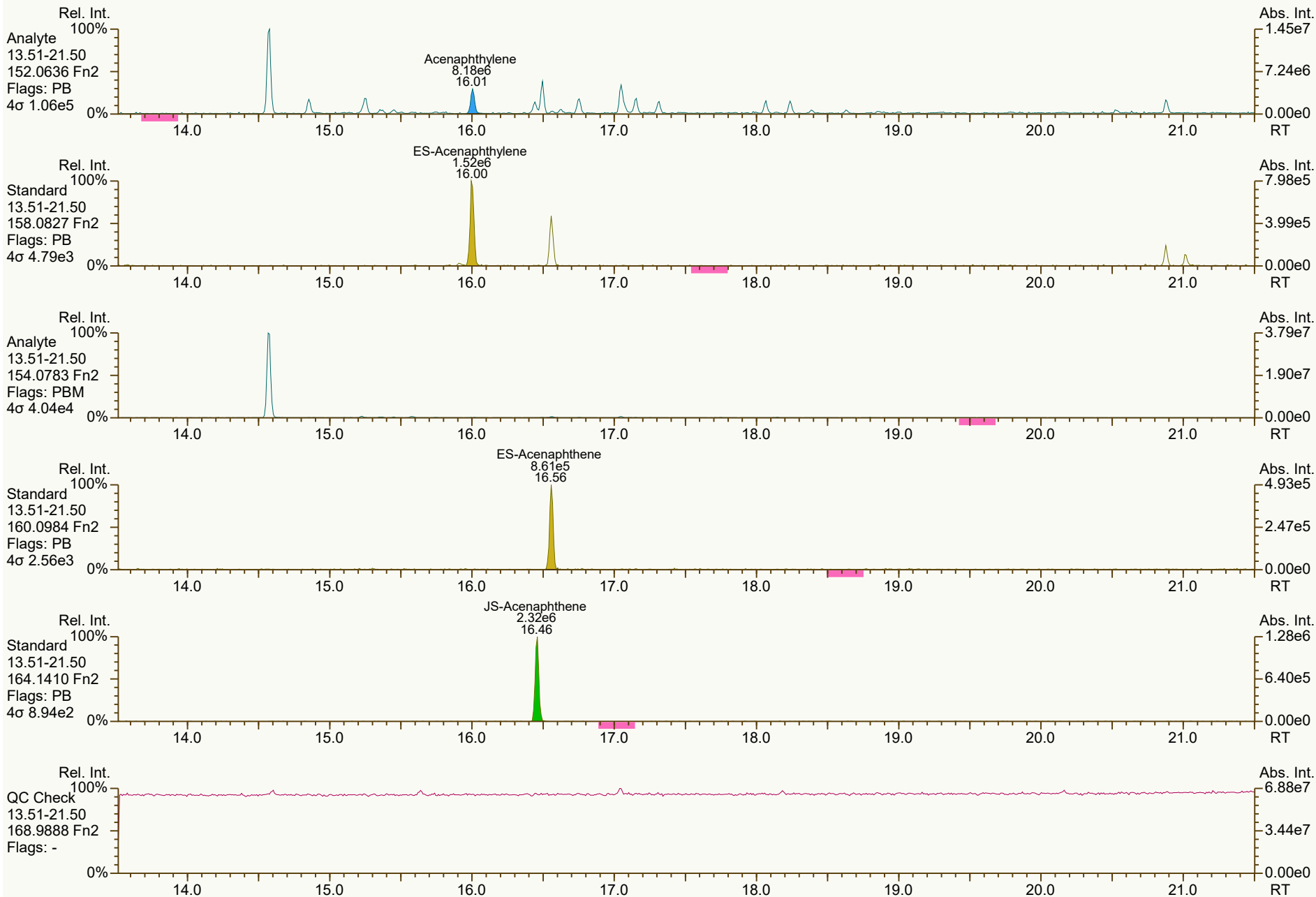
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 9899, 9006, 8576, 5798, 0139 scc: 219-876

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:48 (DTF) Printed: 26-Sep-2024 13:28 Page 2 of 9

SGS ID: B9770_21382_PAH_007-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 56

Acq: 20-Sep-2024 05:32:25
User: DTF Datafile: 240919V23



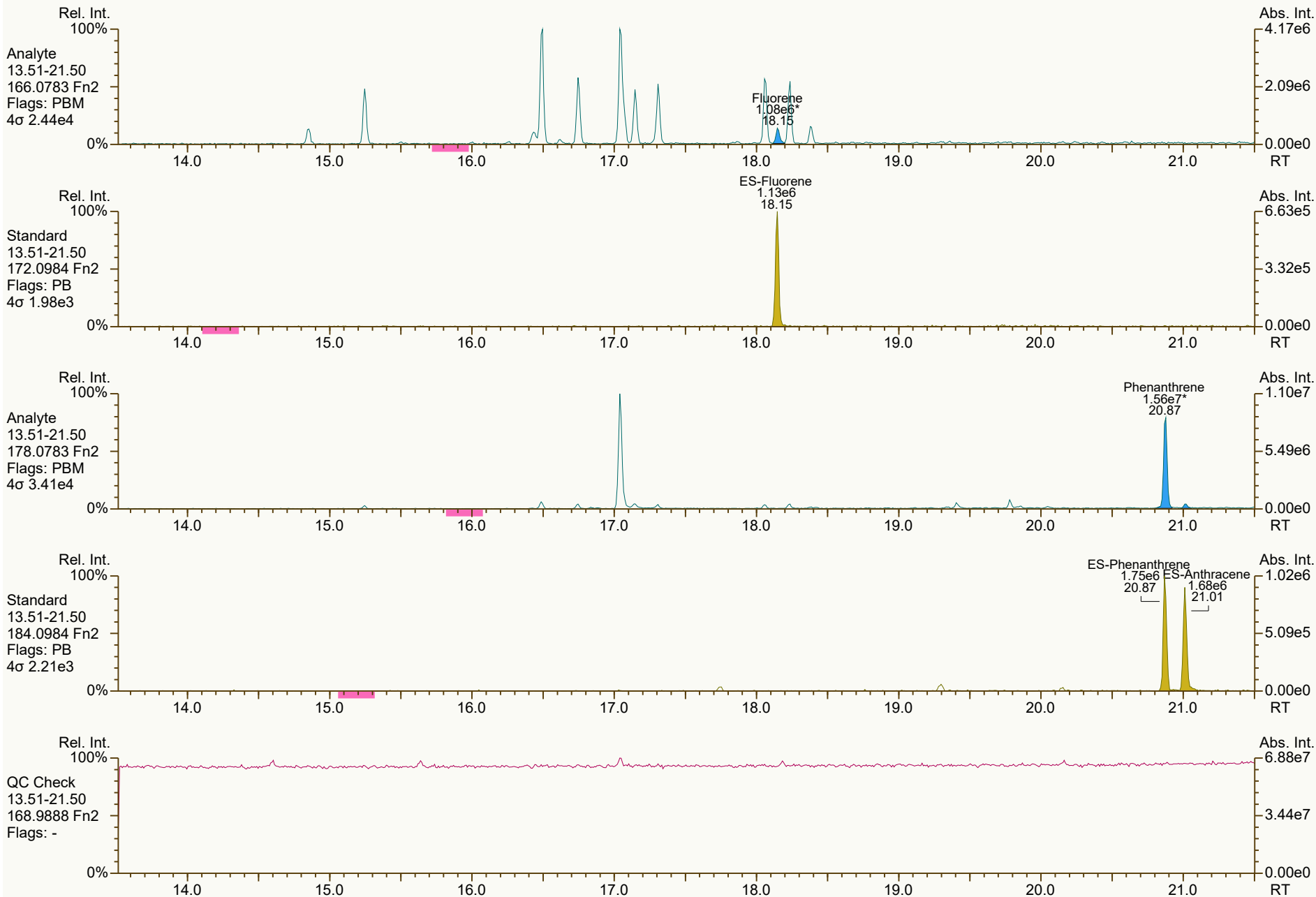
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 4360, 3685, 7768, 8949, 7493 scc: 219-876

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:48 (DTF) Printed: 26-Sep-2024 13:28 Page 3 of 9

SGS ID: B9770_21382_PAH_007-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 56

Acq: 20-Sep-2024 05:32:25
User: DTF Datafile: 240919V23



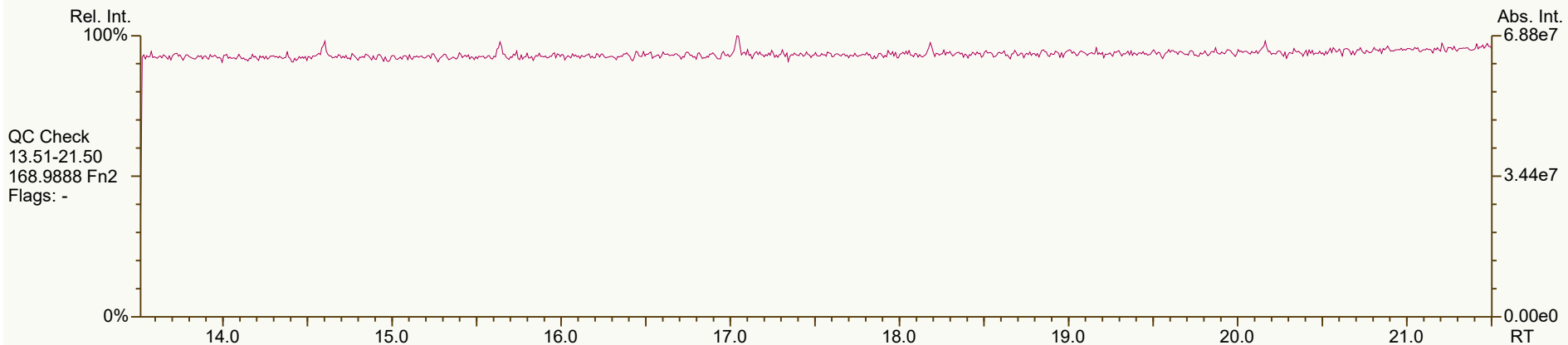
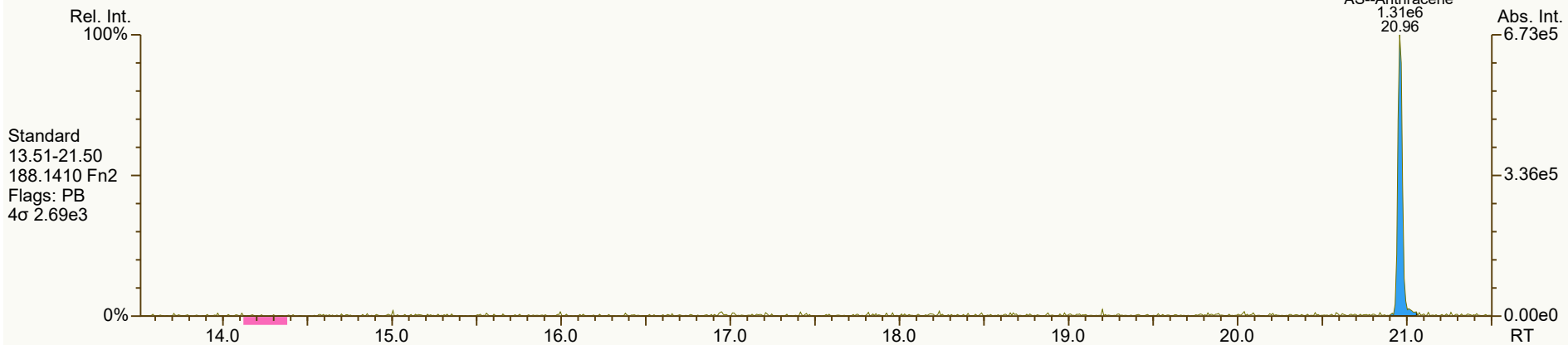
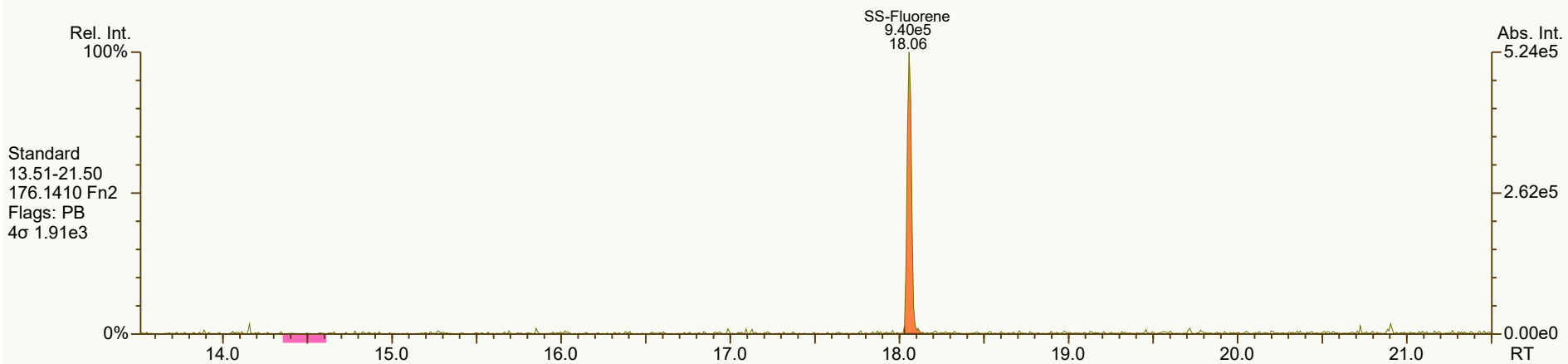
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 4782, 3910, 3350, 9081 scc: 219-876

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:48 (DTF) Printed: 26-Sep-2024 13:28 Page 4 of 9

SGS ID: B9770_21382_PAH_007-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 56

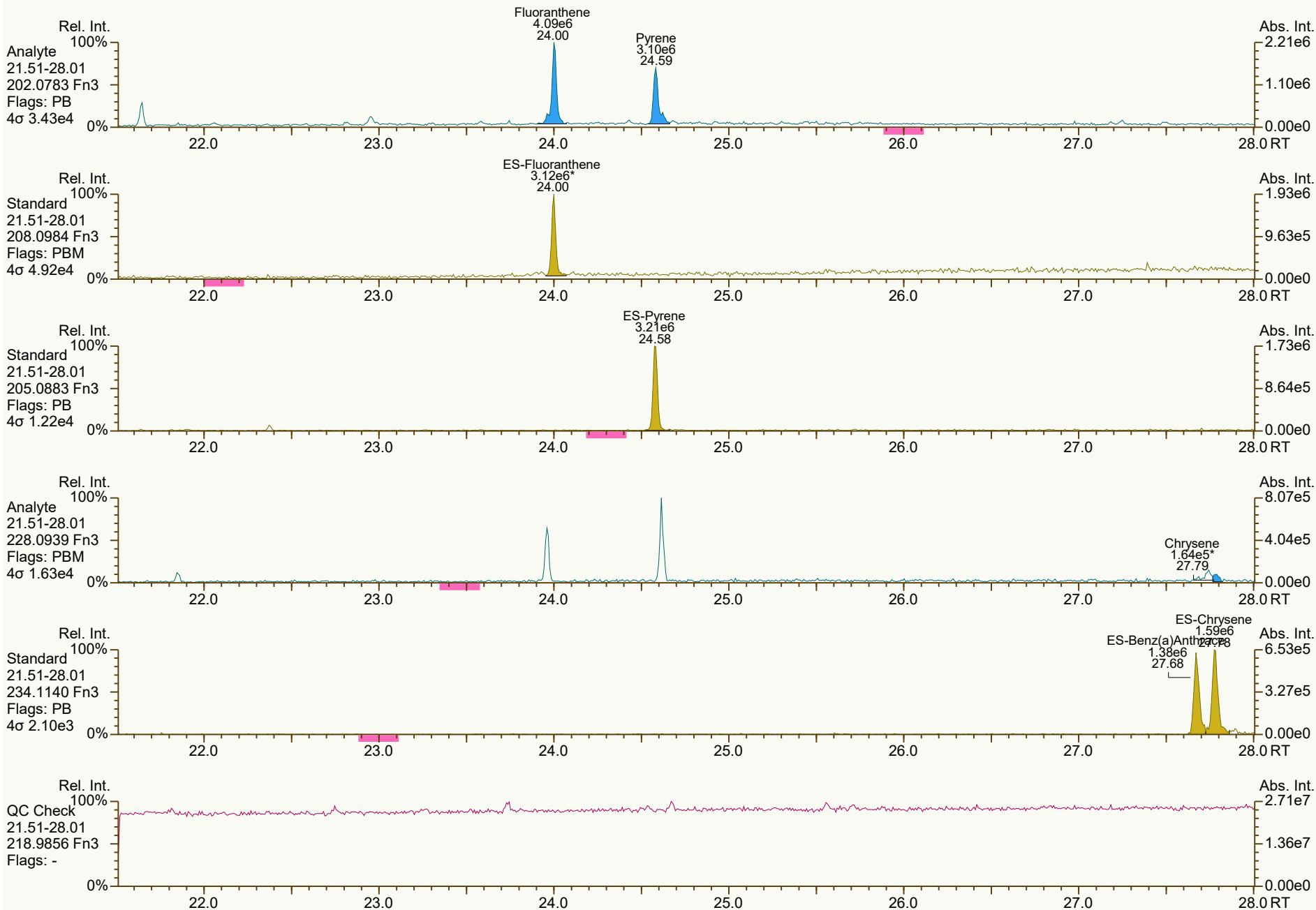
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User: DTF Datafile: 240919V23



SGS ID: B9770_21382_PAH_007-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 56

Acq: 20-Sep-2024 05:32:25
User: DTF Datafile: 240919V23



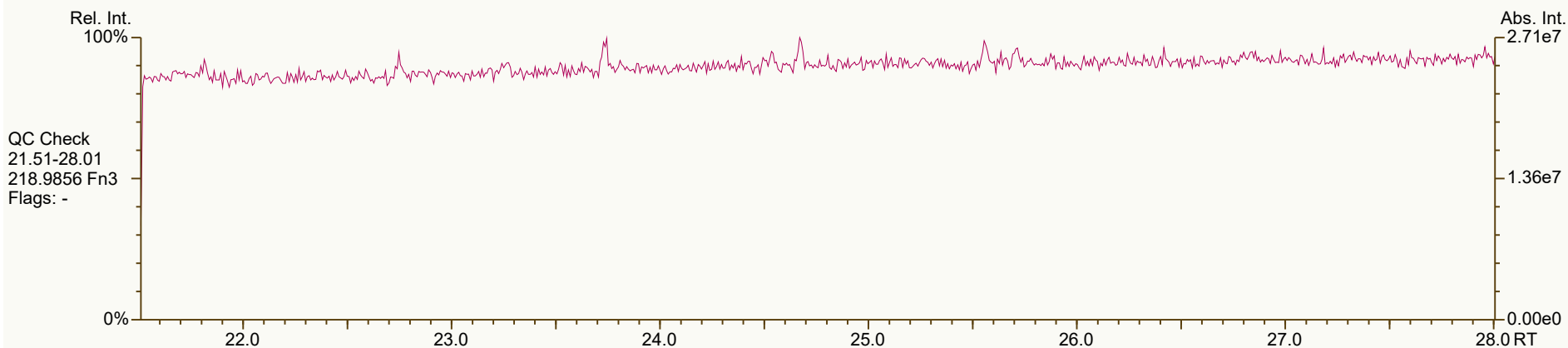
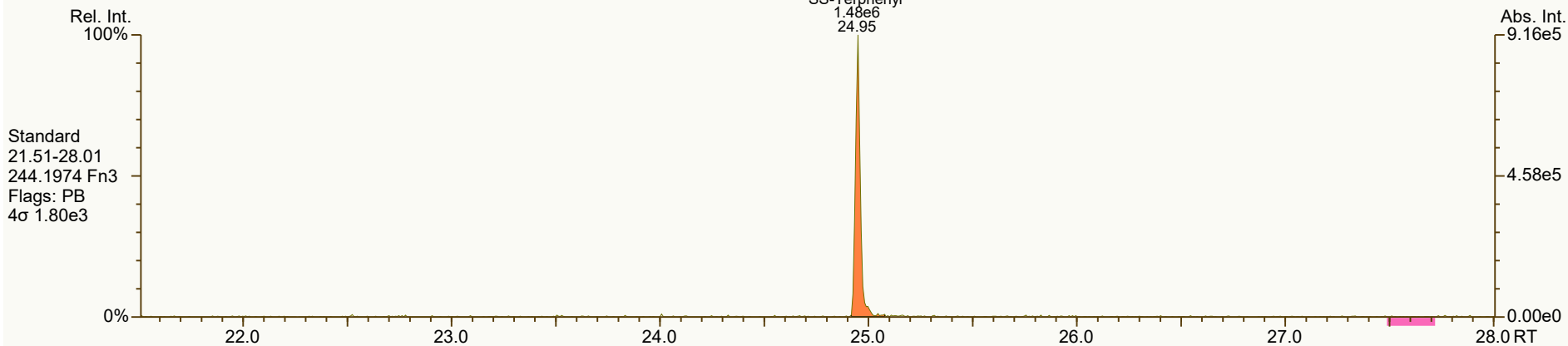
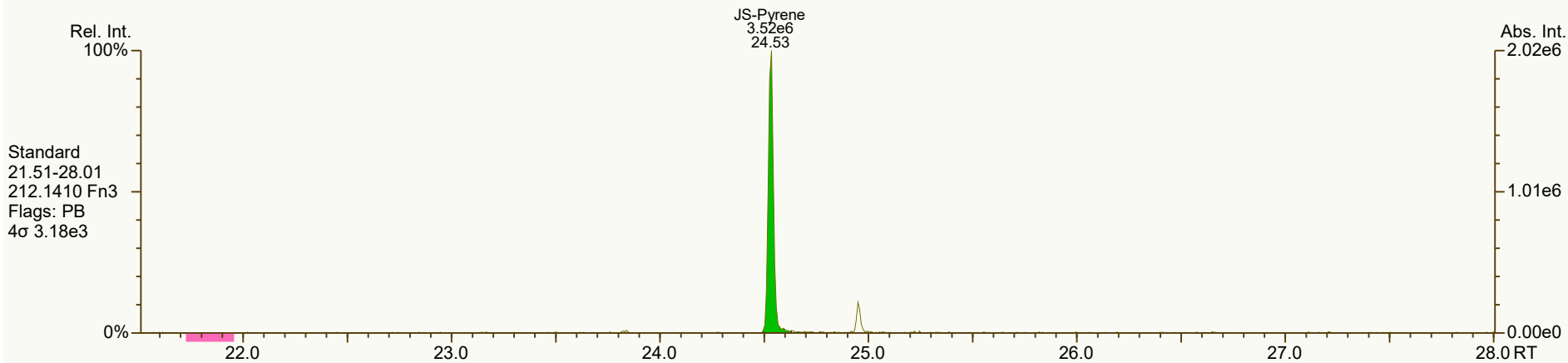
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 2481, 5340, 5877, 1514, 8391 scc: 219-876

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:48 (DTF) Printed: 26-Sep-2024 13:28 Page 6 of 9

SGS ID: B9770_21382_PAH_007-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 56

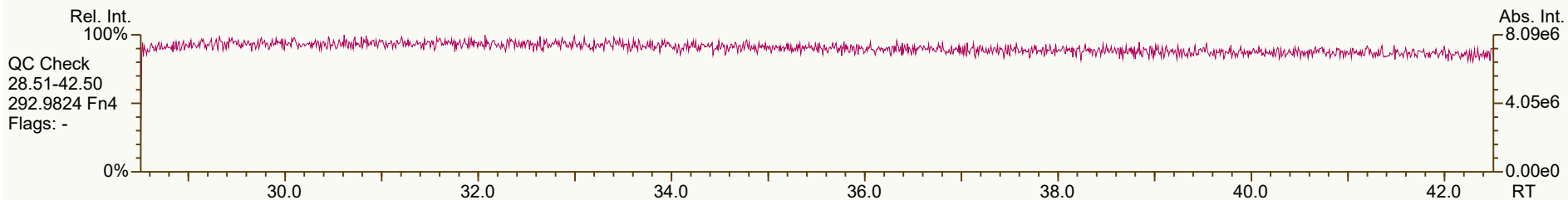
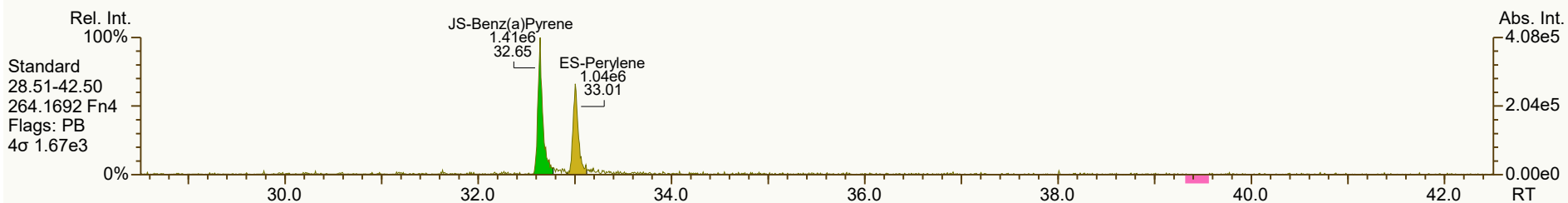
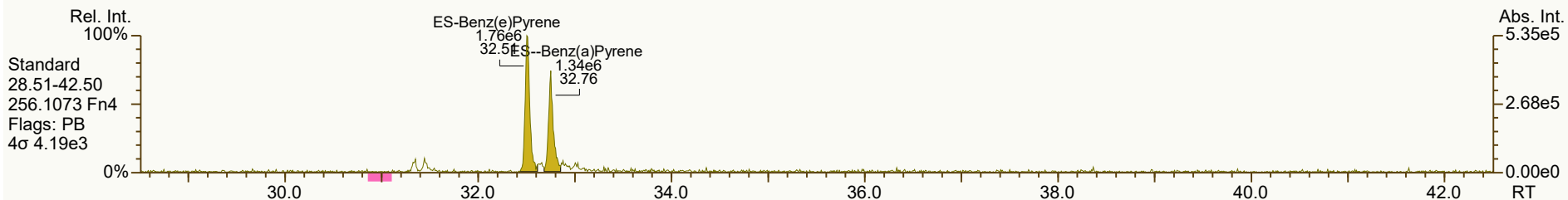
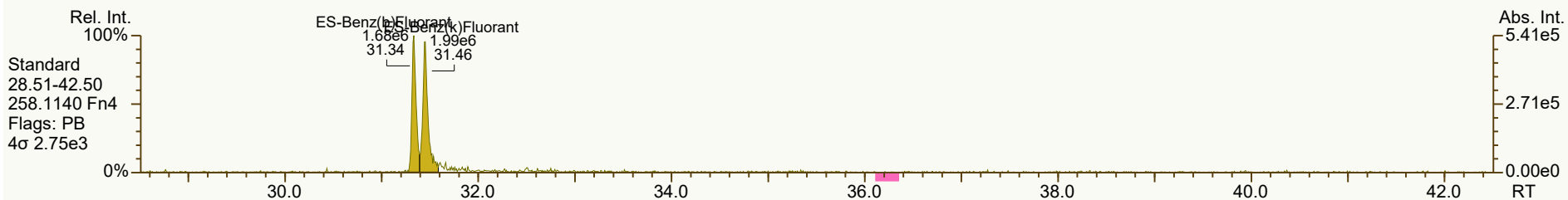
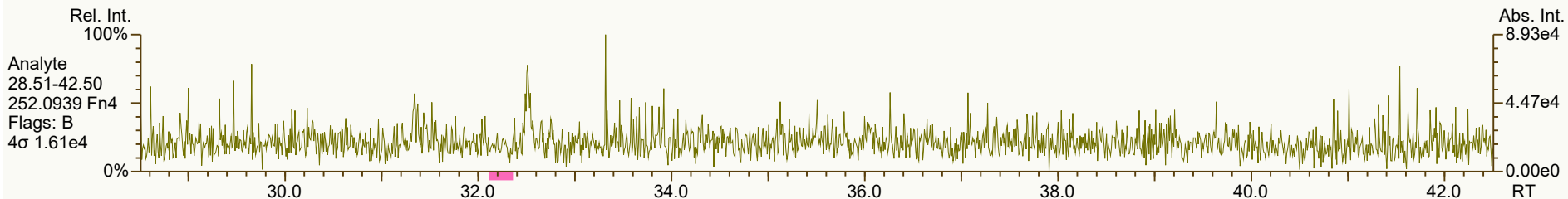
Acq: 20-Sep-2024 05:32:25
User: DTF Datafile: 240919V23



SGS ID: B9770_21382_PAH_007-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 56

Acq: 20-Sep-2024 05:32:25
User: DTF Datafile: 240919V23



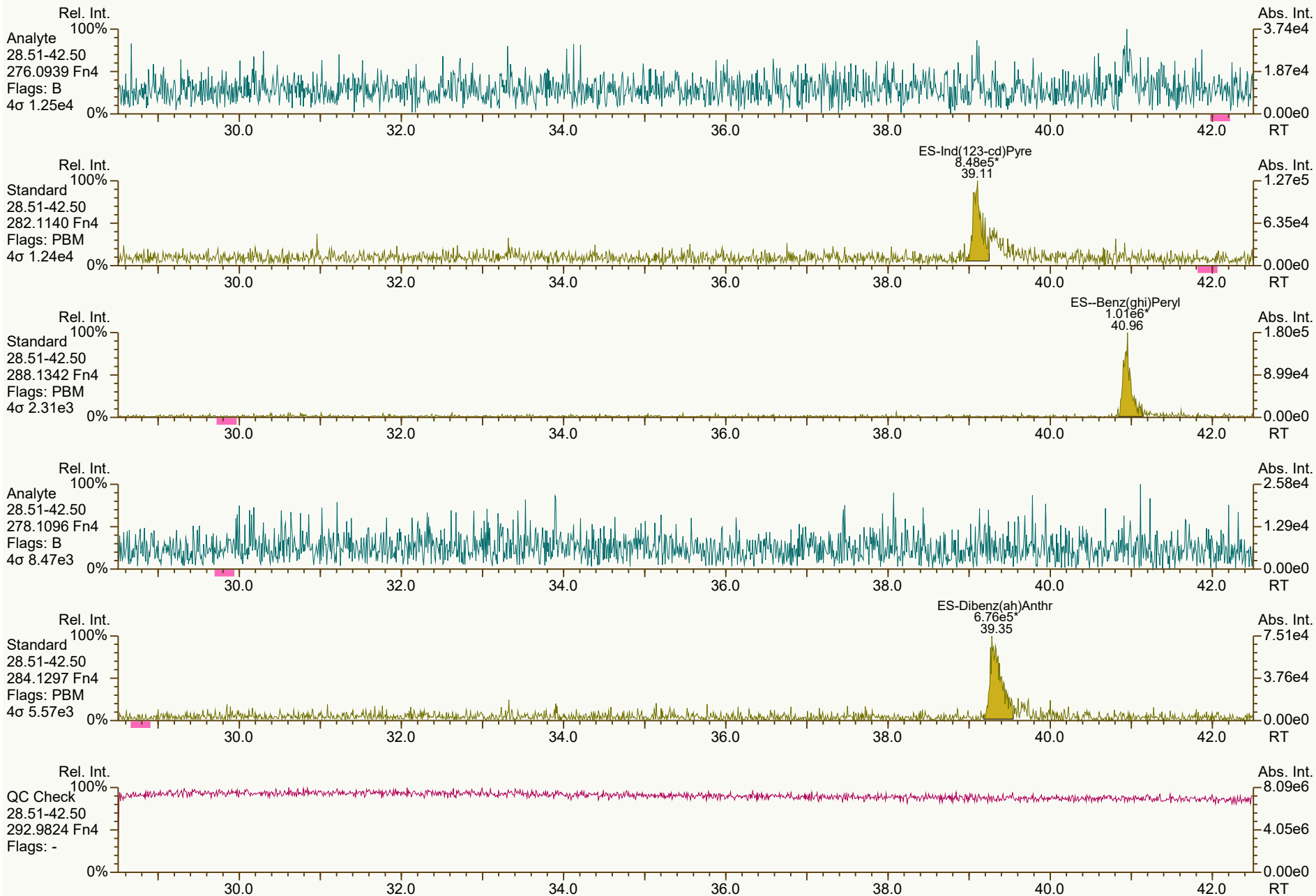
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 6386, 1365, 3130, 0803 scc: 219-876

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:47 Printed: 26-Sep-2024 13:28 Page 8 of 9

SGS ID: B9770_21382_PAH_007-D10
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pah GC: pah Vial: 56

Acq: 20-Sep-2024 05:32:25
User: DTF Datafile: 240919V23



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_007-D10.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1597, 5011, 4255, 6491, 6570 scc: 219-876

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:48 (DTF) Printed: 26-Sep-2024 13:28 Page 9 of 9

| Stats | | PAH Ax | ES/SS | | Checkcode: 258-537-HTT | | | | | | |
|-----------------------------|--------|--------|--------|--------|------------------------|----------|----|------|----------|----------|---------|
| Largest +ve RT shift (secs) | | 1.0 | 0.8 | | | | | | | | |
| Largest -ve RT shift (secs) | | -1.4 | -0.4 | | | | | | | | |
| Name | Actual | | Pred | Actual | Diff | Response | Ra | Conc | | | |
| | RT | QC | RRT | RRT | Secs | | | RRF | ng/Train | Noise | DL |
| Naphthalene | 10.48 | B E | 1.0005 | 1.0005 | 0 | 2.11E+09 | - | 0.99 | 5330 | 1.21E+05 | 1.72000 |
| 2-Methylnaphthalene | 13.04 | B E | 1.0004 | 1.0000 | -0.3 | 1.04E+08 | - | 1.01 | 509 | 3.74E+04 | 0.80200 |
| Acenaphthylene | 16.00 | | 1.0000 | 1.0006 | +0.6 | 1.51E+07 | - | 0.92 | 48.4 | 1.33E+05 | 2.10000 |
| Acenaphthene | 16.56 | B | 1.0005 | 1.0000 | -0.5 | 4.64E+06 | - | 1.01 | 21.7 | 3.95E+04 | 0.89800 |
| Fluorene | 18.15 | B | 1.0000 | 1.0005 | +0.5 | 5.72E+06 | - | 1.02 | 21.7 | 3.36E+04 | 0.62700 |
| Phenanthrene | 20.87 | B | 1.0004 | 1.0000 | -0.5 | 9.67E+07 | - | 1.00 | 202 | 4.01E+04 | 0.40300 |
| Anthracene | 21.01 | B | 1.0000 | 1.0000 | 0 | 2.52E+06 | - | 1.23 | 4.78 | 4.01E+04 | 0.35900 |
| Fluoranthene | 24.00 | B | 1.0000 | 1.0000 | 0 | 3.11E+07 | - | 0.92 | 38.8 | 6.98E+04 | 0.40300 |
| Pyrene | 24.58 | B | 1.0000 | 1.0000 | 0 | 2.05E+07 | - | 0.98 | 21.8 | 6.98E+04 | 0.36700 |
| Benzo (a) Anthracene | 27.68 | J B | 1.0000 | 1.0003 | +0.5 | 4.10E+05 | - | 1.00 | 0.879 | 2.27E+04 | 0.25300 |
| Chrysene | 27.77 | J B | 1.0003 | 0.9997 | -1.0 | 1.00E+06 | - | 1.01 | 1.95 | 2.27E+04 | 0.26900 |
| Benzo (b) Fluoranthene | 31.33 | J B | 1.0003 | 1.0000 | -0.6 | 1.14E+06 | - | 0.98 | 1.85 | 3.27E+04 | 0.41300 |
| Benzo (k) Fluoranthene | 31.44 | J B | 1.0003 | 0.9997 | -1.1 | 4.44E+05 | - | 0.92 | 0.678 | 3.27E+04 | 0.45800 |
| Benzo (e) Pyrene | 32.50 | J B | 1.0000 | 0.9997 | -0.6 | 1.08E+06 | - | 0.98 | 1.79 | 3.27E+04 | 0.45300 |
| Benzo (a) Pyrene | 32.74 | J B | 1.0003 | 1.0000 | -0.6 | 4.81E+05 | - | 0.98 | 0.902 | 3.27E+04 | 0.59100 |
| Perylene | - | | 1.0039 | 0.0000 | | 0.00E+00 | - | 1.06 | ND | 3.27E+04 | 0.81600 |
| Indeno (1,2,3-cd) Pyrene | 39.04 | J B | 1.0002 | 0.9996 | -1.4 | 3.39E+05 | - | 0.92 | 1.03 | 2.39E+04 | 1.12000 |
| Dibenzo (a,h) Anthracene | - | | 0.9998 | 0.0000 | | 0.00E+00 | - | 0.94 | ND | 1.52E+04 | 0.85600 |
| Benzo (ghi) Perylene | 40.93 | J B | 1.0002 | 1.0006 | +1.0 | 1.16E+06 | - | 0.97 | 2.92 | 2.39E+04 | 0.99100 |

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Datafile: 240919V14

Client ID: Field Blank

Wt/Vol: 1.00 Train

MM6_PAH_ICAL_05MAR2024

Acquired: 19 Sep 2024 22:31:07

Lab ID: B9770_21382_PAH_008

J Level: 4 ng/Train

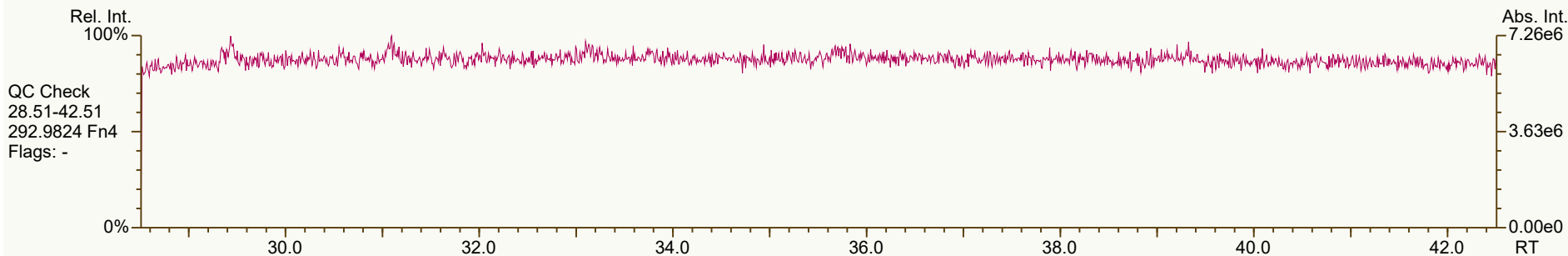
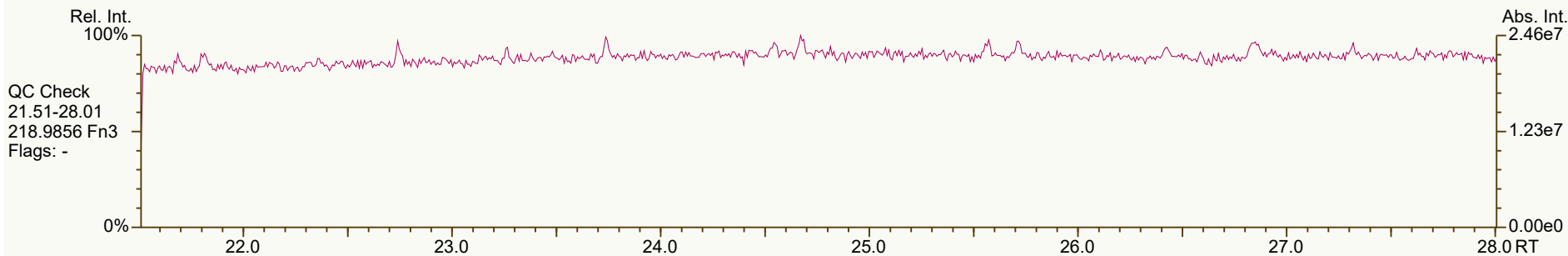
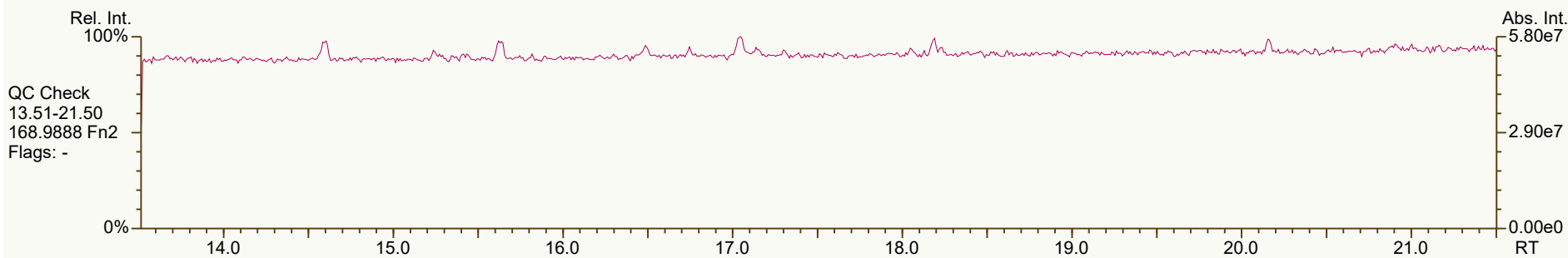
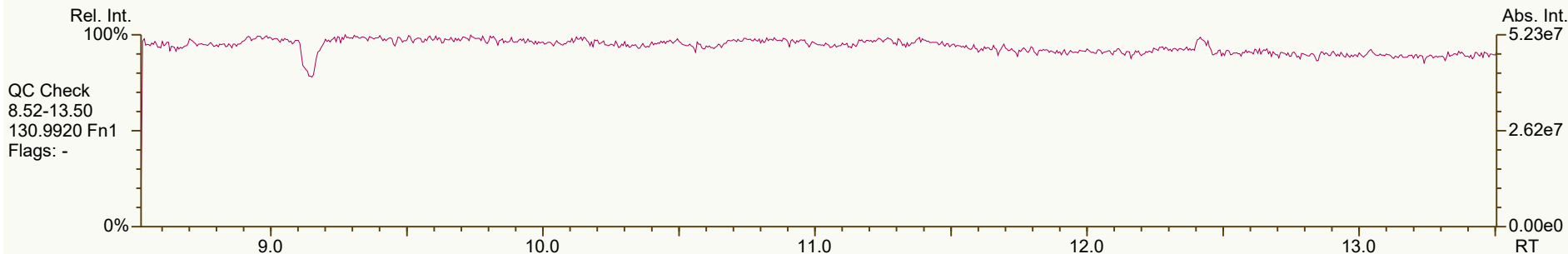
Nominal ES spike: 40 ng

| | | Stats | PAH Ax | ES/SS | | | | | | Checkcode: 258-537-HTT |
|-------------------------------|-------|--------|--------|--------|------|----------|----|------|-------|------------------------|
| Largest +ve RT shift (secs) | | | 1.0 | 0.8 | | | | | | |
| Largest -ve RT shift (secs) | | | -1.4 | -0.4 | | | | | | |
| | | Actual | Pred | Actual | Diff | | | | | |
| Name | RT | QC | RRT | RRT | Secs | Response | Ra | RRF | Recv. | |
| 13C6-Naphthalene | 10.47 | | 0.8106 | 0.8101 | -0.4 | 1.60E+07 | - | 1.35 | 62.9 | |
| 13C6-2-Methylnaphthalene | 13.04 | | 1.0082 | 1.0086 | +0.3 | 8.14E+06 | - | 0.99 | 43.6 | |
| 13C6-Acenaphthylene | 16.00 | | 0.9723 | 0.9723 | 0 | 1.35E+07 | - | 1.37 | 50.8 | |
| 13C6-Acenaphthene | 16.56 | | 1.0060 | 1.0065 | +0.5 | 8.44E+06 | - | 0.91 | 47.8 | |
| 13C6-Fluorene | 18.14 | | 1.1025 | 1.1025 | 0 | 1.04E+07 | - | 1.09 | 48.9 | |
| 13C6-Phenanthrene | 20.87 | | 1.2679 | 1.2686 | +0.7 | 1.92E+07 | - | 1.91 | 51.9 | |
| 13C6-Anthracene | 21.01 | | 1.2766 | 1.2773 | +0.7 | 1.71E+07 | - | 1.35 | 65.4 | |
| 13C6-Fluoranthene | 24.00 | | 0.9782 | 0.9782 | 0 | 3.50E+07 | - | 1.23 | 64.7 | |
| 13C3-Pyrene | 24.58 | | 1.0020 | 1.0020 | 0 | 3.83E+07 | - | 1.23 | 70.4 | |
| 13C6-Benzo (a) Anthracene | 27.67 | | 1.1278 | 1.1278 | 0 | 1.86E+07 | - | 0.86 | 48.9 | |
| 13C6-Chrysene | 27.78 | H | 1.1321 | 1.1324 | +0.4 | 2.04E+07 | - | 1.19 | 38.9 | |
| 13C6-Benzo (b) Fluoranthene | 31.33 | | 0.9600 | 0.9602 | +0.4 | 2.52E+07 | - | 1.28 | 88.4 | |
| 13C6-Benzo (k) Fluoranthene | 31.44 | | 0.9634 | 0.9636 | +0.4 | 2.85E+07 | - | 1.82 | 70.3 | |
| 13C4-Benzo (e) Pyrene | 32.50 | | 0.9961 | 0.9961 | 0 | 2.48E+07 | - | 1.56 | 71.3 | |
| 13C4-Benzo (a) Pyrene | 32.74 | | 1.0031 | 1.0034 | +0.6 | 2.18E+07 | - | 1.23 | 79.5 | |
| dl2-Perylene | 33.00 | | 1.0112 | 1.0112 | 0 | 1.49E+07 | - | 1.13 | 59.6 | |
| 13C6-Indeno (1,2,3-cd) Pyrene | 39.06 | | 1.1967 | 1.1971 | +0.8 | 1.44E+07 | - | 0.85 | 76.2 | |
| 13C6-Dibenzo (ah) Anthracene | 39.27 | | 1.2035 | 1.2033 | -0.4 | 1.40E+07 | - | 0.94 | 66.9 | |
| 13C12-Benzo (ghi) Perylene | 40.90 | | 1.2536 | 1.2535 | -0.2 | 1.64E+07 | - | 1.33 | 55.4 | |
| AS--Anthracene FS | 20.96 | V | 1.2733 | 1.2740 | +0.7 | 1.29E+07 | - | 1.17 | 56.5 | |
| SS-Fluorene | 18.06 | | 0.9951 | 0.9956 | +0.5 | 9.75E+06 | - | 1.00 | 93.8 | |
| SS-Terphenyl | 24.95 | V | 1.0396 | 1.0396 | 0 | 1.70E+07 | - | 0.79 | 61.1 | |
| JS-Methylnaphthalene | 12.93 | | - | - | - | 1.89E+07 | - | - | - | |
| JS-Acenaphthene | 16.45 | | - | - | - | 1.94E+07 | - | - | - | |
| JS-Pyrene | 24.53 | | - | - | - | 4.41E+07 | - | - | - | |
| JS-Benzo (a) Pyrene | 32.63 | | - | - | - | 2.23E+07 | - | - | - | |

SGS ID: B9770_21382_PAH_008
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Field Blank
VSIR EI+ Expt: pah GC: pah Vial: 49

Acq: 19-Sep-2024 22:31:07
User: DTF Datafile: 240919V14



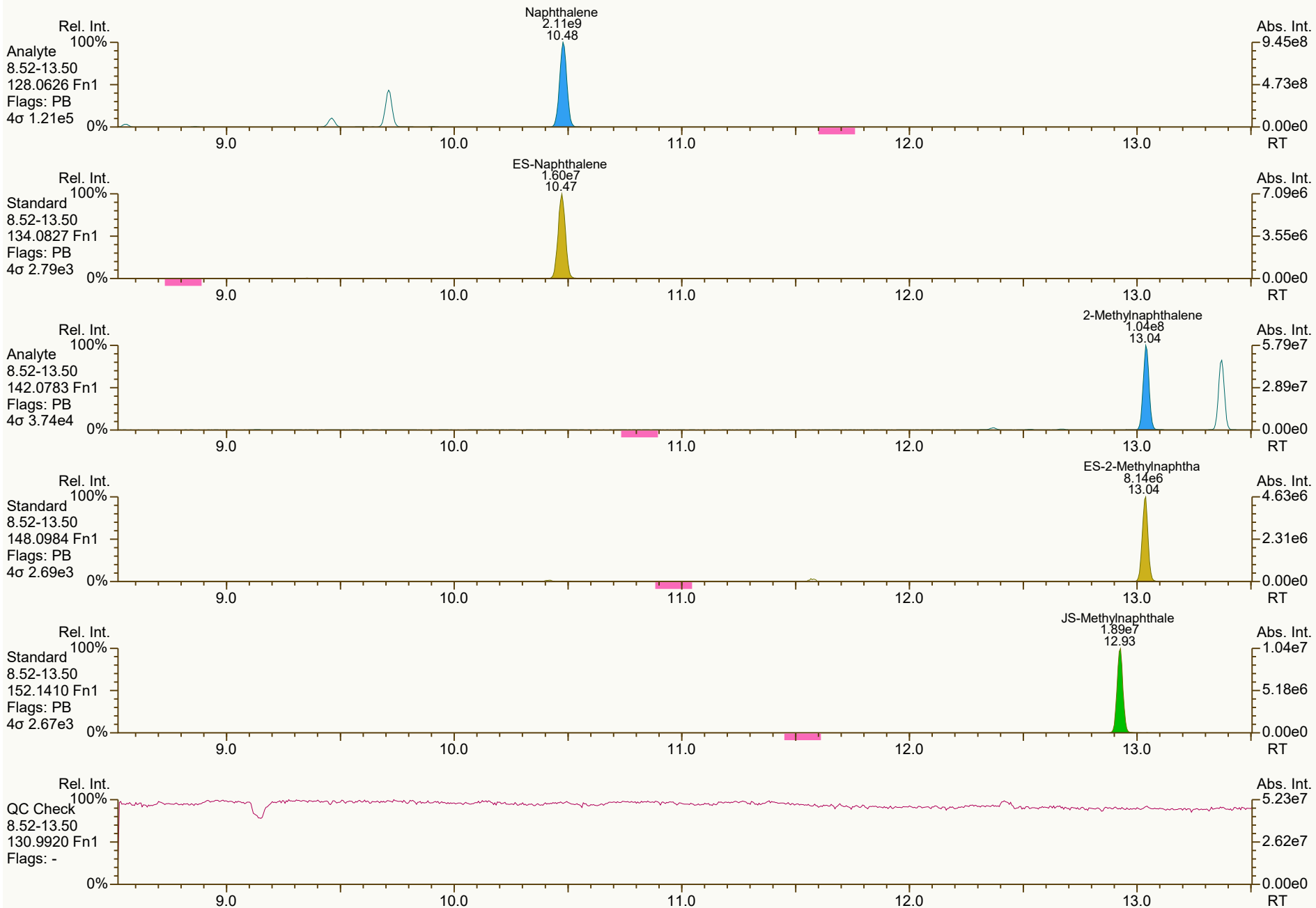
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 258-537

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:26 Page 1 of 9

SGS ID: B9770_21382_PAH_008
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Field Blank
VSIR EI+ Expt: pah GC: pah Vial: 49

Acq: 19-Sep-2024 22:31:07
User: DTF Datafile: 240919V14



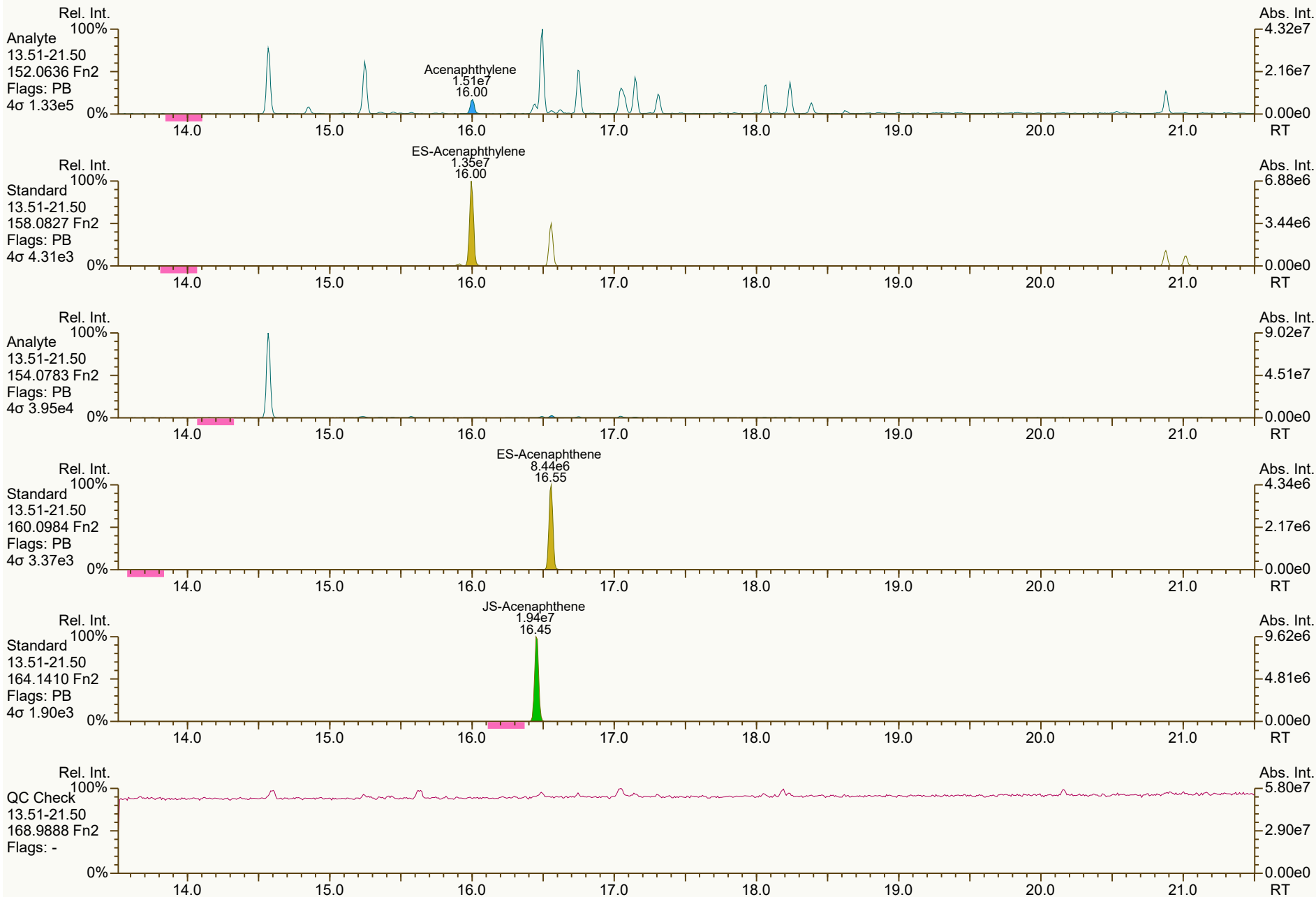
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:22 Printed: 26-Sep-2024 13:26 Page 2 of 9

SGS ID: B9770_21382_PAH_008
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Field Blank
VSIR EI+ Expt: pah GC: pah Vial: 49

Acq: 19-Sep-2024 22:31:07
User: DTF Datafile: 240919V14



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_008.utp_res, saved 26-Sep-2024 11:36 (DTF)
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:22 Printed: 26-Sep-2024 13:26 Page 3 of 9

SGS ID: B9770_21382_PAH_008
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Field Blank
VSIR EI+ Expt: pah GC: pah Vial: 49

Acq: 19-Sep-2024 22:31:07
User: DTF Datafile: 240919V14



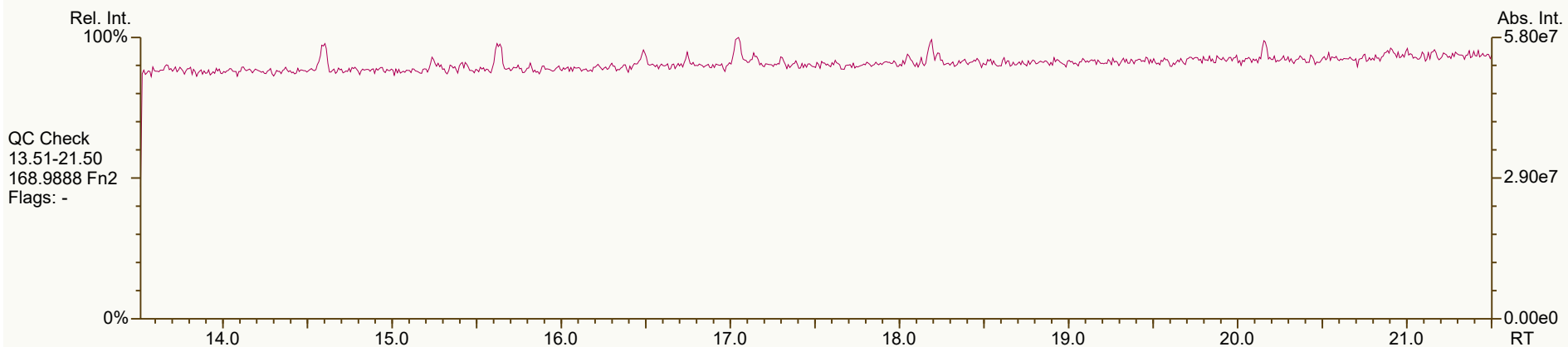
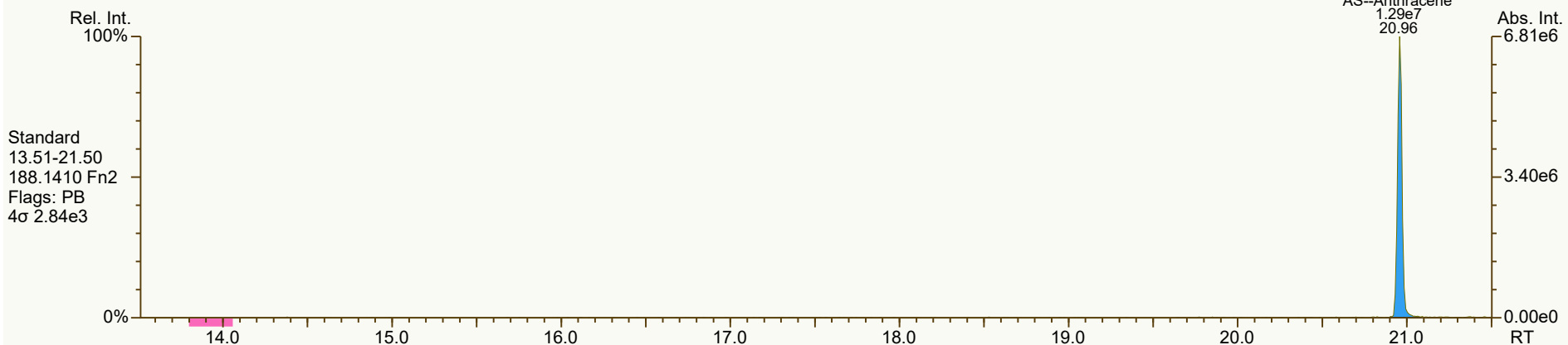
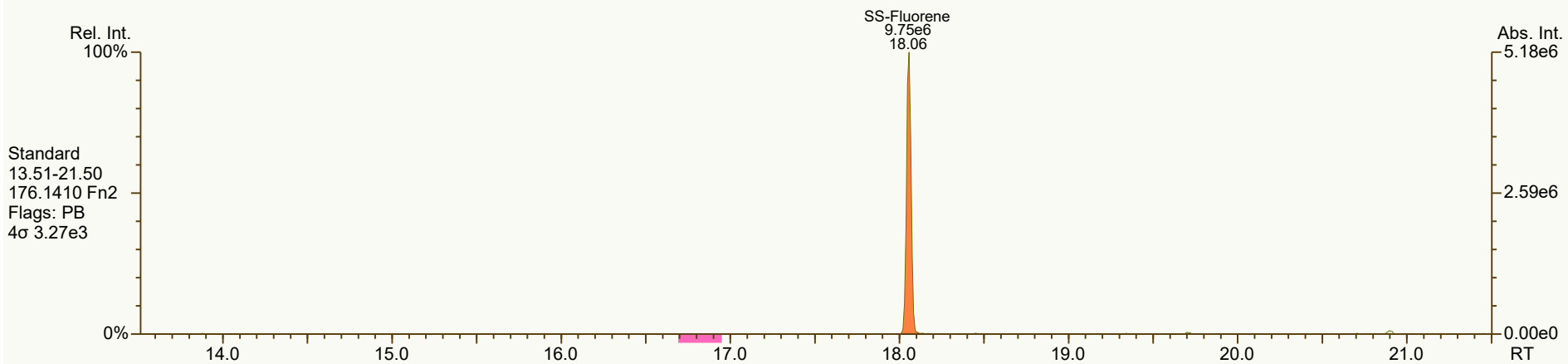
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Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:22 (DTF) Printed: 26-Sep-2024 13:26 Page 4 of 9

SGS ID: B9770_21382_PAH_008
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Field Blank
VSIR EI+ Expt: pah GC: pah Vial: 49

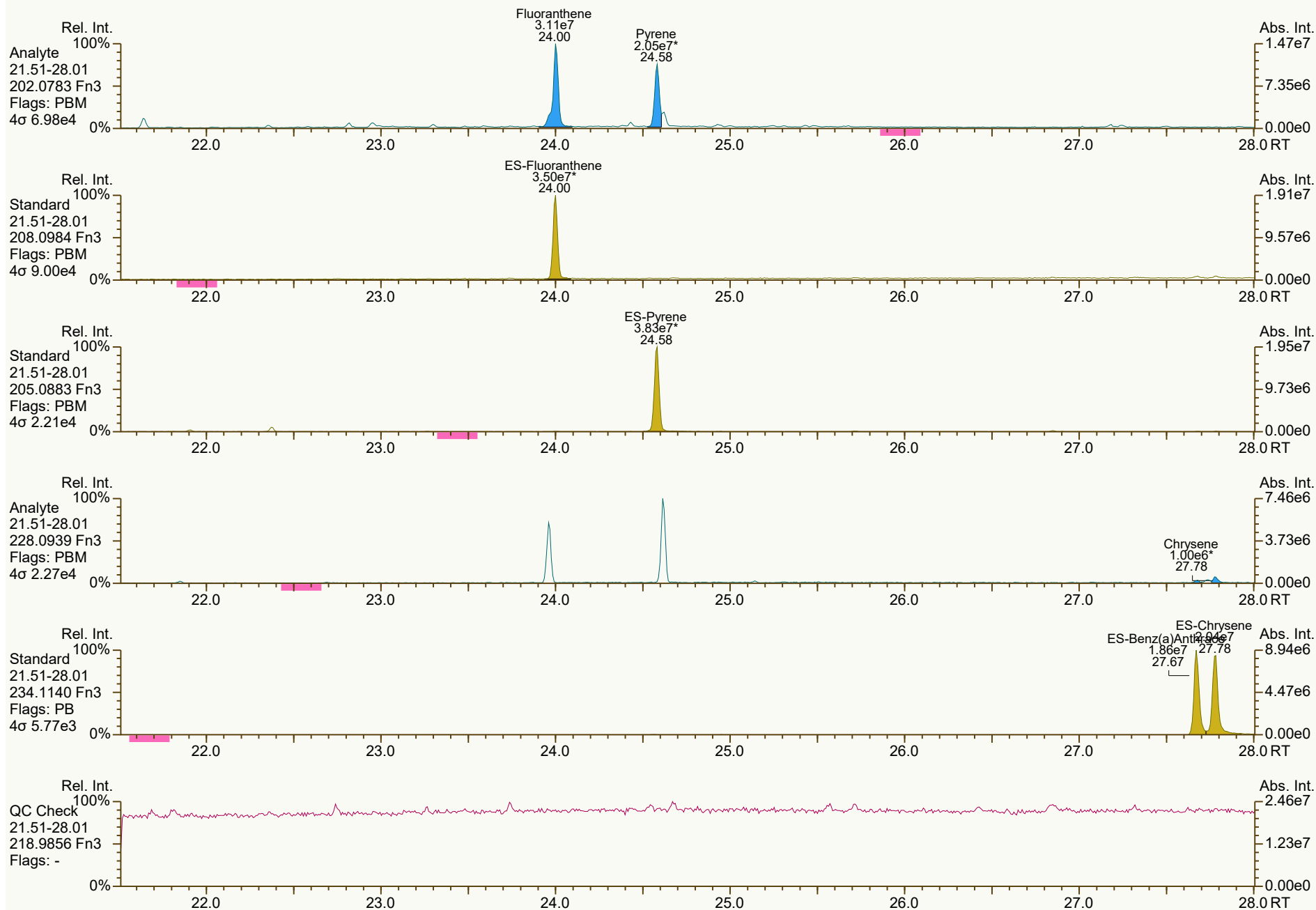
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SGS ID: B9770_21382_PAH_008
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Field Blank
VSIR EI+ Expt: pah GC: pah Vial: 49

Acq: 19-Sep-2024 22:31:07
User: DTF Datafile: 240919V14



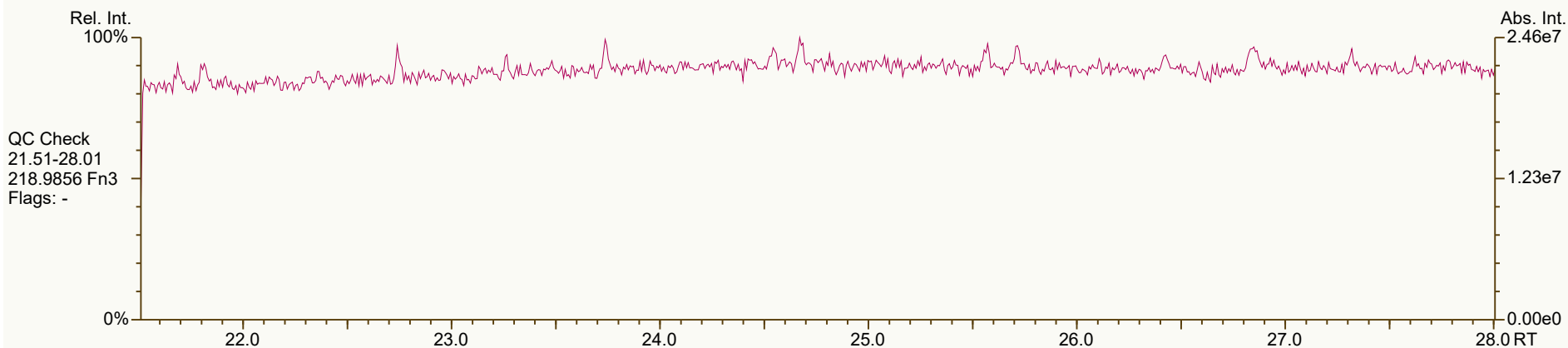
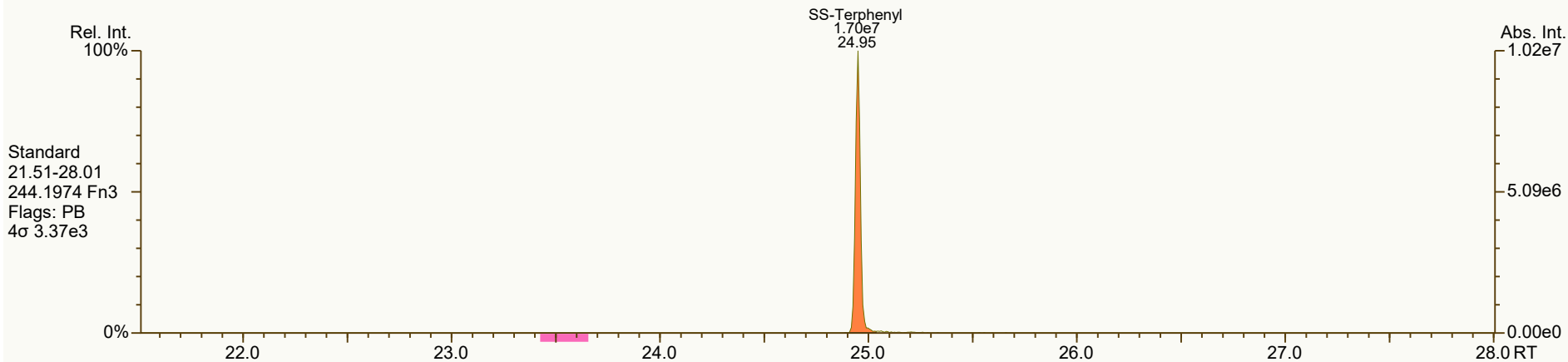
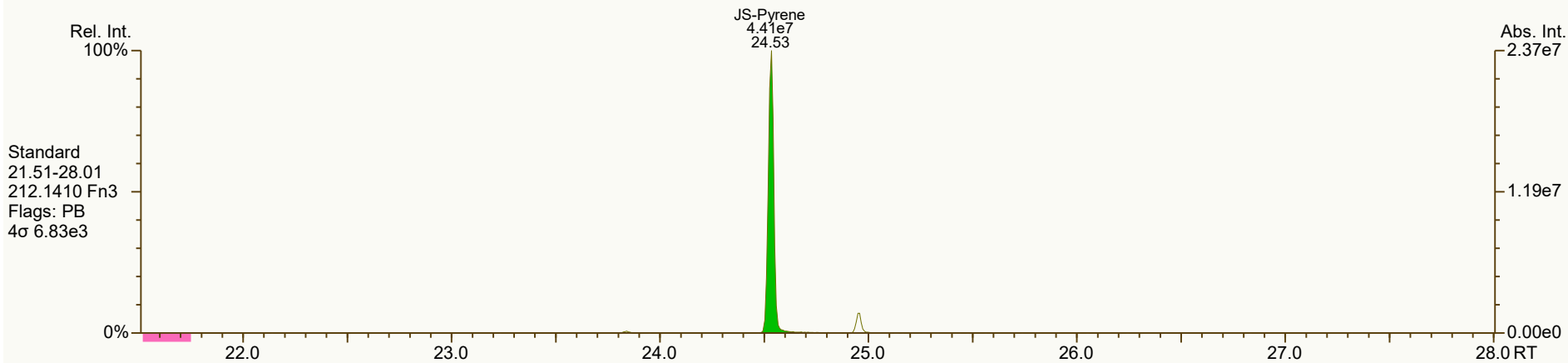
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Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:22 (DTF) Printed: 26-Sep-2024 13:26 Page 6 of 9

SGS ID: B9770_21382_PAH_008
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Field Blank
VSIR EI+ Expt: pah GC: pah Vial: 49

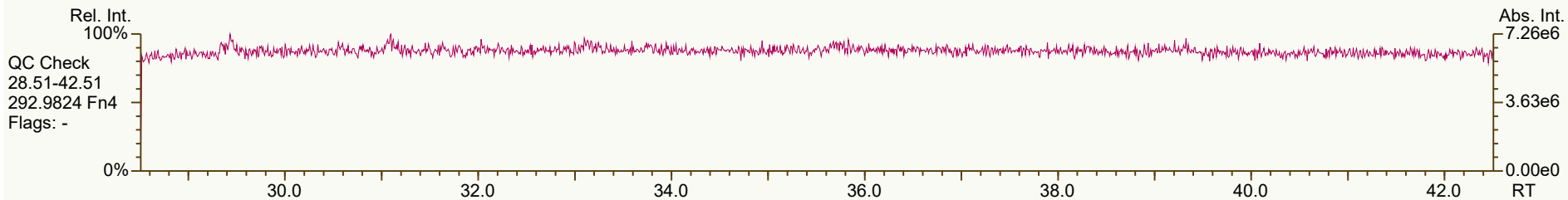
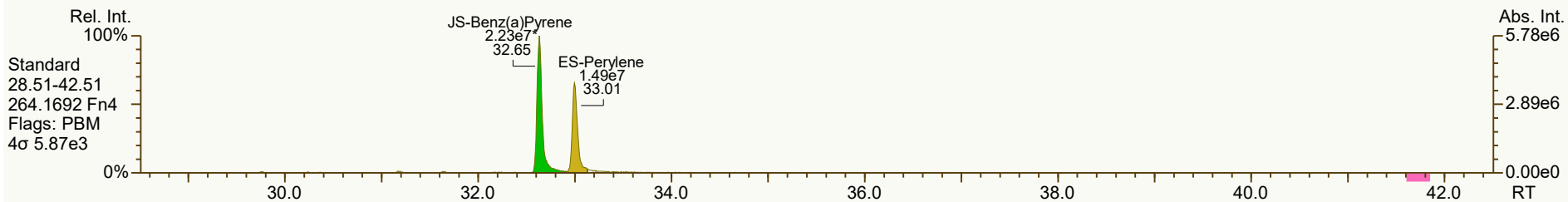
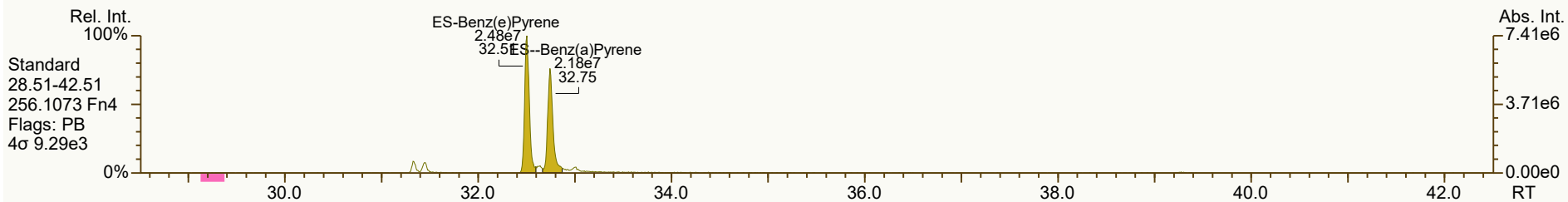
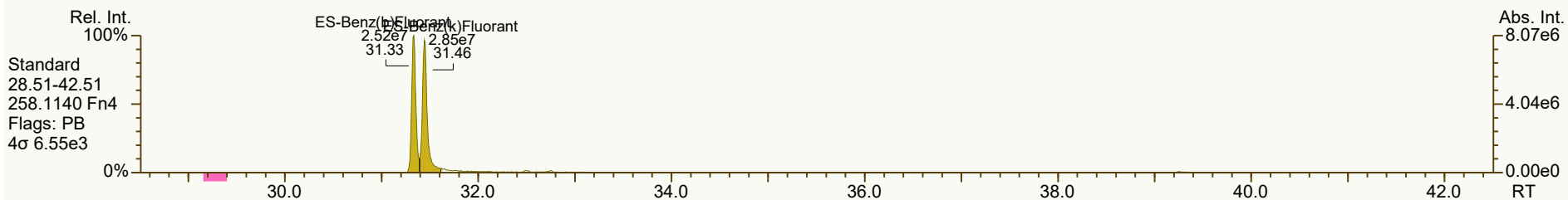
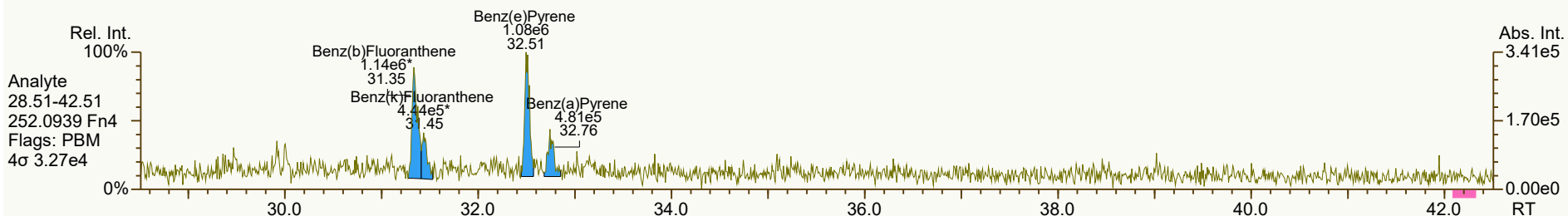
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User: DTF Datafile: 240919V14



SGS ID: B9770_21382_PAH_008
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Field Blank
VSIR EI+ Expt: pah GC: pah Vial: 49

Acq: 19-Sep-2024 22:31:07
User: DTF Datafile: 240919V14



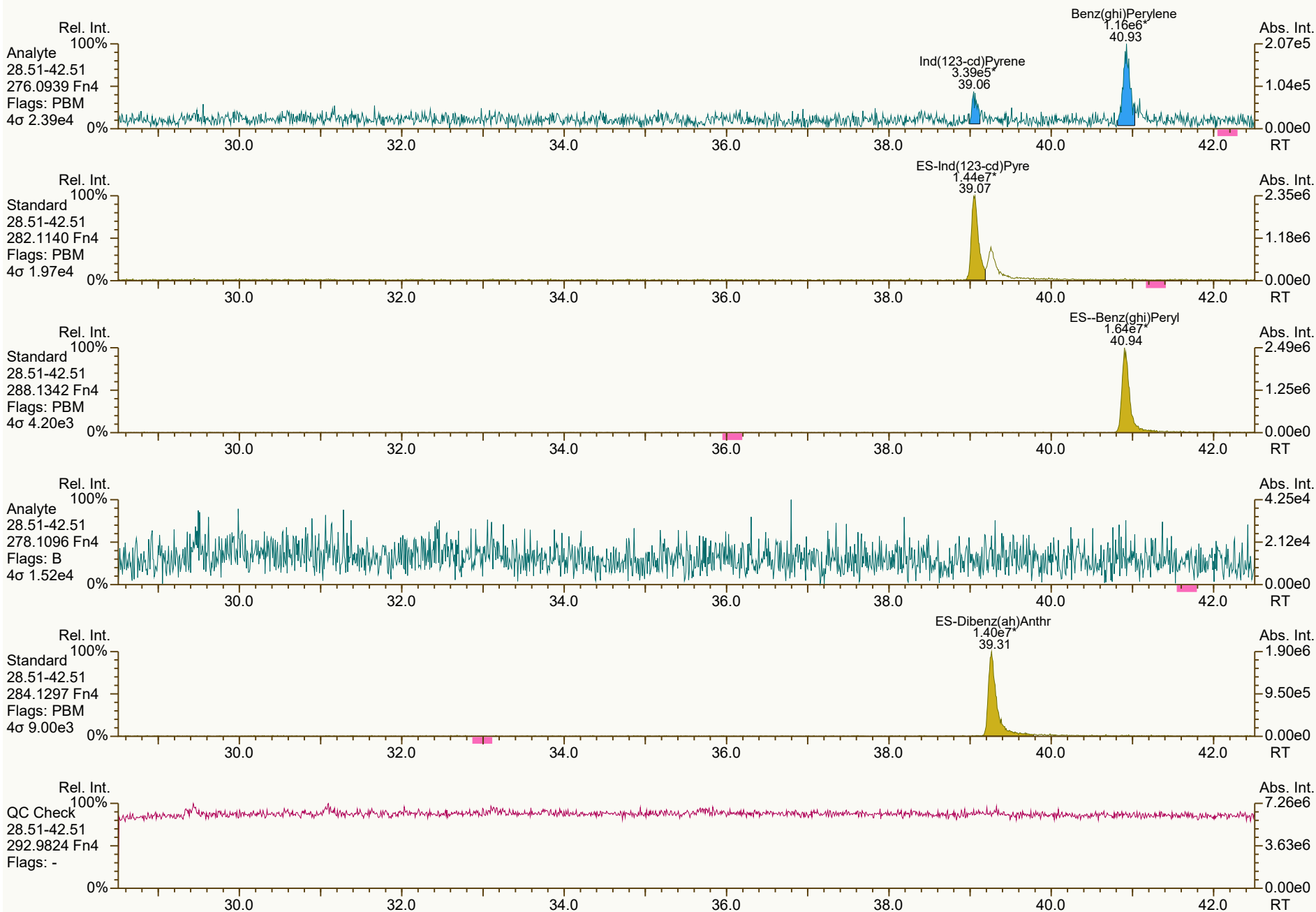
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 7305, 4898, 3707, 2611 scc: 258-537

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:23 (DTF) Printed: 26-Sep-2024 13:26 Page 8 of 9

SGS ID: B9770_21382_PAH_008
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Field Blank
VSIR EI+ Expt: pah GC: pah Vial: 49

Acq: 19-Sep-2024 22:31:07
User: DTF Datafile: 240919V14



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\B9770_21382_PAH_008.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 4637, 5541, 8113, 7624, 2280 scc: 258-537

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 14:23 (DTF) Printed: 26-Sep-2024 13:26 Page 9 of 9

SGS Environmental Services — Run Log

Project: B9770_21382_PCB

Instrument: MM4 (AutoSpec-Ultima)

MS Experiment: pcb-2016

GC Program: pcb90_FI

| # | Datafile | Vial# | Lab ID | Wt/Vol | Client/Sample ID | Analyst(s) | Checkcode | Acq Date | Acq Time |
|----|-----------|-------|--------------------------|--------|------------------|------------|----------------------------|-------------|----------|
| 3 | 240917S03 | 1 | CS3_240917_PCB_SB ✓ | 1.00 | ICAL SIL 27-92-1 | RAB, PSW | 847-896 | 17-Sep-2024 | 13:02:58 |
| 4 | 240917S04 | 3 | CS3_240917_PCB_SC | 1.00 | CPSM SIL 27-92-2 | RAB, PSW | 977-098 | 17-Sep-2024 | 14:05:21 |
| 6 | 240917S08 | 69 | MB1_21382_PCB_SDS | 1.00 | Method Blank | RAB, PSW | 634-357 | 17-Sep-2024 | 17:58:55 |
| 7 | 240917S11 | 70 | B9770_21382_PCB_001 | 1.00 | Test#1 Mill Off | RAB, PSW | 125-978 | 17-Sep-2024 | 21:03:27 |
| 8 | 240917S12 | 71 | B9770_21382_PCB_002 | 1.00 | Test#1 Mill On | RAB, PSW | 519-728 | 17-Sep-2024 | 21:59:22 |
| 9 | 240917S13 | 72 | B9770_21382_PCB_003 | 1.00 | Test#2 Mill On | RAB, PSW | 990-042 188-654 | 17-Sep-2024 | 22:56:56 |
| 10 | 240917S14 | 73 | B9770_21382_PCB_004 | 1.00 | Test#3 Mill On | RAB, PSW | 448-058 | 17-Sep-2024 | 23:54:31 |
| 3 | 240918S03 | 1 | CS3_240918_PCB_SB | 1.00 | ICAL SIL 27-92-1 | RAB, PSW | 856-935 | 18-Sep-2024 | 13:09:58 |
| 4 | 240918S04 | 3 | CS3_240918_PCB_SC | 1.00 | CPSM SIL 27-92-2 | RAB, PSW | 298-715 | 18-Sep-2024 | 14:19:18 |
| 5 | 240918S05 | 2 | SB_240918_PCB_SB | 1.00 | Nonane | RAB, PSW | 310-929 | 18-Sep-2024 | 15:15:12 |
| 6 | 240918S06 | 74 | B9770_21382_PCB_005-RJ | 1.00 | Test#2 Mill Off | RAB, PSW | 783-752 664-149 | 18-Sep-2024 | 16:12:47 |
| 7 | 240918S07 | 75 | B9770_21382_PCB_006-RJ | 1.00 | Test#4 Mill On | RAB, PSW | 924-995 130-538 | 18-Sep-2024 | 17:10:21 |
| 8 | 240918S08 | 76 | B9770_21382_PCB_007-RJ | 1.00 | Test#5 Mill On | RAB, PSW | 934-187 | 18-Sep-2024 | 18:07:56 |
| 9 | 240918S09 | 77 | B9770_21382_PCB_008-RJ ✓ | 1.00 | Field Blank | RAB, PSW | 861-232 | 18-Sep-2024 | 19:05:31 |

CL 27Sep24

REVIEWED

paul_walton , 9/20/2024, 11:10:38 AM

REVIEWED

Carla_Lyon , 9/27/2024, 3:33:40 PM

Lab ID: MB1_21382_PCB_SDS

ACQ: 17-Sep-2024 17:58:55 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Method Blank B9770_21382

UTP: 20-Sep-2024 10:52:50 PSW

J-level: 20 pg Split: 2

Checkcode: 634-357-DMX/C

Datafile: 240917S08

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------|-----------|----------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-77 33'44'-TeCB | ND | | 1.0006 | | | | | 1.45 | ND | 3.09E+03 | 15.7 |
| PCB-81 344'5'-TeCB | ND | | 1.0005 | | | | | 1.46 | ND | 3.09E+03 | 15.1 |
| PCB-105 233'44'-PeCB | 35.05 | J | 1.0007 | 1.0005 | -0.4 | 3.64E+04 | 0.63 | 1.18 | 19 | 1.22E+03 | 6.76 |
| PCB-114 2344'5'-PeCB | ND | | 1.0007 | | | | | 1.14 | ND | 1.22E+03 | 7.45 |
| PCB-118 23'44'5'-PeCB | 34.04 | | 1.0007 | 1.0008 | +0.2 | 7.14E+04 | 0.58 | 1.18 | 35.9 | 1.22E+03 | 6.52 |
| PCB-123 23'44'5'-PeCB | 33.76 | J EMPC | 1.0006 | 1.0006 | 0 | 1.22E+04 | 0.88 | 1.19 | 6.3 | 1.22E+03 | 6.26 |
| PCB-126 33'44'5'-PeCB | 37.65 | J | 1.0005 | 1.0006 | +0.2 | 2.45E+04 | 0.60 | 1.35 | 13.2 | 1.11E+03 | 5.93 |
| PCB-156/157 ...-HxCB | 40.18 | J EMPC C | 1.0005 | 1.0006 | +0.2 | 2.04E+04 | 0.98 | 1.23 | 11.1 | 9.29E+02 | 7.74 |
| PCB-167 23'44'55'-HxCB | 39.16 | J | 1.0005 | 1.0000 | -1.2 | 1.26E+04 | 1.26 | 1.22 | 6.91 | 9.29E+02 | 5.5 |
| PCB-169 33'44'55'-HxCB | ND | | 1.0005 | | | | | 1.23 | ND | 9.29E+02 | 5.61 |
| PCB-189 233'44'55'-HpCB | ND | | 1.0004 | | | | | 1.31 | ND | 9.13E+02 | 6.39 |
| PCB-209 DeCB | ND | | 1.0005 | | | | | 1.08 | ND | 5.95E+02 | 7.26 |
| | | | | | | | | | | | |
| | | | | | | | | | | 70% | 130% MB |
| ES PCB-1 | 11.45 | V | 0.7229 | 0.7227 | -0.1 | 4.76E+06 | 2.95 | 1.09 | 48.8 % | 5% | 145% |
| ES PCB-3 | 13.67 | V | 0.8630 | 0.8629 | -0.1 | 4.64E+06 | 3.03 | 1.06 | 48.6 % | 5% | 145% |
| ES PCB-4 | 13.92 | | 0.8788 | 0.8788 | 0 | 3.78E+06 | 1.44 | 0.52 | 81 % | 5% | 145% |
| ES PCB-15 | 19.52 | V | 1.2319 | 1.2323 | +0.5 | 6.08E+06 | 1.53 | 1.11 | 60.7 % | 5% | 145% |
| ES PCB-19 | 16.94 | | 1.0691 | 1.0693 | +0.2 | 3.99E+06 | 1.08 | 0.54 | 82.3 % | 5% | 145% |
| ES PCB-37 | 25.78 | V | 1.0809 | 1.0810 | +0.2 | 5.62E+06 | 1.01 | 1.71 | 40.9 % | 5% | 145% |
| ES PCB-54 | 19.80 | V | 0.8306 | 0.8304 | -0.2 | 4.18E+06 | 0.81 | 0.78 | 66.8 % | 5% | 145% |
| ES PCB-77 | 32.07 | V | 1.3442 | 1.3449 | +1.3 | 5.57E+06 | 0.69 | 1.53 | 45.3 % | 10% | 145% |
| ES PCB-81 | 31.59 | V | 1.3240 | 1.3246 | +1.1 | 5.97E+06 | 0.72 | 1.55 | 47.8 % | 10% | 145% |
| ES PCB-104 | 24.69 | | 0.8294 | 0.8291 | -0.4 | 4.39E+06 | 1.60 | 0.74 | 84.5 % | 10% | 145% |
| ES PCB-105 | 35.03 | | 1.1761 | 1.1763 | +0.4 | 6.50E+06 | 1.52 | 1.31 | 71.1 % | 10% | 145% |
| ES PCB-114 | 34.47 | | 1.1575 | 1.1576 | +0.2 | 6.58E+06 | 1.52 | 1.34 | 70 % | 10% | 145% |
| ES PCB-118 | 34.01 | | 1.1420 | 1.1421 | +0.2 | 6.73E+06 | 1.44 | 1.35 | 71.2 % | 10% | 145% |
| ES PCB-123 | 33.74 | | 1.1327 | 1.1328 | +0.2 | 6.53E+06 | 1.53 | 1.29 | 72.4 % | 10% | 145% |
| ES PCB-126 | 37.63 | V | 1.2635 | 1.2636 | +0.2 | 5.49E+06 | 1.39 | 1.59 | 49.3 % | 10% | 145% |
| ES PCB-153 | 35.57 | | 0.9707 | 0.9707 | 0 | 5.47E+06 | 1.18 | 1.10 | 75.3 % | 10% | 145% |
| ES PCB-155 | 29.58 | V | 0.8072 | 0.8071 | -0.2 | 5.86E+06 | 1.14 | 1.38 | 64.6 % | 10% | 145% |
| ES PCB-156/157 | 40.15 | V C | 1.0958 | 1.0957 | -0.2 | 1.19E+07 | 1.09 | 1.62 | 55.8 % | 10% | 145% |
| ES PCB-167 | 39.16 | V | 1.0687 | 1.0687 | 0 | 6.02E+06 | 1.13 | 1.70 | 53.6 % | 10% | 145% |
| ES PCB-169 | 42.86 | V | 1.1697 | 1.1696 | -0.3 | 5.80E+06 | 1.14 | 1.55 | 56.5 % | 10% | 145% |
| ES PCB-170 | 42.37 | | 0.9066 | 0.9065 | -0.3 | 4.87E+06 | 0.99 | 1.06 | 85.3 % | 10% | 145% |
| ES PCB-180 | 41.29 | | 0.8835 | 0.8835 | 0 | 5.83E+06 | 1.02 | 1.30 | 83.1 % | 10% | 145% |
| ES PCB-188 | 34.44 | | 0.9398 | 0.9398 | 0 | 3.90E+06 | 1.02 | 0.63 | 94.3 % | 10% | 145% |
| ES PCB-189 | 44.97 | V | 0.9621 | 0.9621 | 0 | 5.17E+06 | 0.94 | 1.71 | 56.1 % | 10% | 145% |
| ES PCB-202 | 38.96 | | 1.0632 | 1.0632 | 0 | 5.28E+06 | 0.86 | 0.96 | 83.6 % | 10% | 145% |
| ES PCB-205 | 47.16 | | 1.0091 | 1.0091 | 0 | 5.48E+06 | 0.85 | 1.23 | 82.4 % | 10% | 145% |
| ES PCB-206 | 48.86 | | 1.0453 | 1.0453 | 0 | 4.33E+06 | 0.80 | 0.84 | 95.4 % | 10% | 145% |

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------|------------------|----|-------------------|-------------------|-----------------|---------------------|-----------------|-----------------|-------------------|-------------------|-----------------|
| | | | | | | | | | | 70% | 130% MB |
| ES PCB-208 | 44.55 | | 0.9533 | 0.9533 | 0 | 6.04E+06 | 0.76 | 1.25 | 89.4 % | 10% | 145% |
| ES PCB-209 | 50.63 | | 1.0832 | 1.0832 | 0 | 4.57E+06 | 1.18 | 0.94 | 90 % | 10% | 145% |
| | | | | | | | | | | 75% | 125% |
| SS PCB-28 | 22.24 | | 0.9327 | 0.9326 | -0.1 | 5.60E+06 | 1.02 | 1.01 | 98.2 % | 5% | 145% |
| SS PCB-111 | 32.06 | | 1.0762 | 1.0764 | +0.4 | 6.17E+06 | 1.46 | 0.97 | 97.6 % | 10% | 145% |
| SS PCB-178 | 37.01 | | 1.0098 | 1.0099 | +0.2 | 3.23E+06 | 1.02 | 0.74 | 112 % | 10% | 145% |
| ES PCB-20 | 22.24 | | 0.9327 | 0.9326 | -0.1 | 5.60E+06 | 1.02 | 1.73 | 40.2 % | 5% | 145% |
| ES PCB-111 | 32.06 | | 1.0762 | 1.0764 | +0.4 | 6.17E+06 | 1.46 | 1.25 | 70.6 % | 10% | 145% |
| ES PCB-178 | 37.01 | | 1.0098 | 1.0099 | +0.2 | 3.23E+06 | 1.02 | 0.46 | 106 % | 10% | 145% |
| | | | | | | | | | | | |
| JS PCB-9 | 15.84 | | | | | 8.99E+06 | 1.56 | | | | |
| JS PCB-52 | 23.85 | | | | | 8.06E+06 | 0.74 | | | | |
| JS PCB-101 | 29.78 | | | | | 6.99E+06 | 1.50 | | | | |
| JS PCB-138 | 36.65 | | | | | 6.60E+06 | 1.21 | | | | |
| JS PCB-194 | 46.74 | | | | | 5.40E+06 | 0.87 | | | | |
| Totals | | | | | | NON-EMPC | EMPC | DL | | | |
| Mono-CB | | | | | | 55.7 | 111 | 7.06 | | | |
| Di-CB | | | | | | 889 | 889 | 10.6 | | | |
| Tri-CB | | | | | | 262 | 373 | 15 | | | |
| Tetra-CB | | | | | | 340 | 425 | 12.1 | | | |
| Penta-CB | | | | | | 219 | 434 | 6.18 | | | |
| Hexa-CB | | | | | | 186 | 288 | 5.55 | | | |
| Hepta-CB | | | | | | 48.1 | 93.3 | 7.84 | | | |
| Octa-CB | | | | | | 0 | 0 | 4.75 | | | |
| Nona-CB | | | | | | 0 | 0 | 27.2 | | | |

Lab ID: MB1_21382_PCB_SDS

ACQ: 17-Sep-2024 17:58:55 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Method Blank B9770_21382

UTP: 20-Sep-2024 10:52:50 PSW

J-level: 20 pg Split: 2

Checkcode: 634-357-DMX/C

Datafile: 240917S08

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-----------|----------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-1 2-MoCB | 11.46 | | 1.0012 | 1.0012 | 0 | 9.78E+04 | 3.45 | 1.47 | 55.7 | 1.71E+03 | 6.76 |
| PCB-2 3-MoCB | 13.51 | EMPC | 0.9878 | 0.9883 | +0.4 | 4.95E+04 | 2.58 | 1.32 | 32.4 | 1.71E+03 | 8.09 |
| PCB-3 4-MoCB | 13.68 | EMPC | 1.0010 | 1.0009 | -0.1 | 3.80E+04 | 2.51 | 1.45 | 22.6 | 1.71E+03 | 7.35 |
| PCB-4 22'-DiCB | 13.94 | | 1.0012 | 1.0012 | 0 | 6.57E+04 | SI | 1.30 | 53.7 | 1.97E+03 | 11.8 |
| PCB-10 26-DiCB | ND | | 1.0132 | | | | | 1.56 | ND | 1.97E+03 | 9.75 |
| PCB-9 25-DiCB | ND | | 1.0010 | | | | | 1.18 | ND | 2.01E+03 | 10.4 |
| PCB-7 24-DiCB | 16.01 | J | 1.0110 | 1.0108 | -0.2 | 1.30E+04 | SI | 1.04 | 8.26 | 2.01E+03 | 11.9 |
| PCB-6 23'-DiCB | 16.25 | J | 1.0257 | 1.0256 | -0.1 | 3.40E+04 | SI | 1.20 | 18.6 | 2.01E+03 | 10.2 |
| PCB-5 23-DiCB | ND | | 1.0444 | | | | | 0.99 | ND | 2.01E+03 | 12.5 |
| PCB-8 24'-DiCB | 16.66 | | 1.0517 | 1.0518 | +0.1 | 8.30E+04 | SI | 1.27 | 43 | 2.01E+03 | 9.71 |
| PCB-14 35-DiCB | ND | | 0.9312 | | | | | 1.04 | ND | 2.01E+03 | 11.9 |
| PCB-11 33'-DiCB | 18.96 | | 0.9713 | 0.9713 | 0 | 1.28E+06 | 1.43 | 1.12 | 749 | 2.01E+03 | 11 |
| PCB-13/12 34'/34-DiCB | ND | C | 0.9860 | | | | | 1.01 | ND | 2.01E+03 | 12.2 |
| PCB-15 44'-DiCB | 19.54 | J | 1.0008 | 1.0009 | +0.1 | 3.17E+04 | SI | 1.31 | 15.9 | 2.01E+03 | 9.41 |
| PCB-19 22'6-TrCB | ND | | 1.0010 | | | | | 1.16 | ND | 2.27E+03 | 16 |
| PCB-30/18 246/22'5-TrCB | 18.67 | C | 1.1015 | 1.1024 | +1.0 | 8.21E+04 | 0.91 | 1.43 | 57.5 | 2.27E+03 | 13 |
| PCB-17 22'4-TrCB | 19.06 | EMPC | 1.1254 | 1.1252 | -0.2 | 3.64E+04 | 0.60 | 0.99 | 36.6 | 2.27E+03 | 18.7 |
| PCB-27 23'6-TrCB | ND | | 1.1371 | | | | | 1.42 | ND | 2.27E+03 | 13.2 |
| PCB-24 236-TrCB | ND | | 1.1444 | | | | | 1.43 | ND | 2.27E+03 | 13.1 |
| PCB-16 22'3-TrCB | ND | | 1.1508 | | | | | 0.94 | ND | 2.27E+03 | 19.9 |
| PCB-32 24'6-TrCB | 19.96 | | 1.1782 | 1.1783 | +0.1 | 4.68E+04 | 0.95 | 1.55 | 30.2 | 2.27E+03 | 12 |
| PCB-34 23'5'-TrCB | ND | | 0.8181 | | | | | 1.17 | ND | 2.89E+03 | 17.1 |
| PCB-23 235-TrCB | ND | | 0.8235 | | | | | 1.16 | ND | 2.89E+03 | 17.3 |
| PCB-26/29 23'5/245-TrCB | 21.50 | J EMPC C | 0.8347 | 0.8339 | -1.0 | 4.61E+04 | 0.78 | 1.19 | 27.7 | 2.89E+03 | 16.9 |
| PCB-25 23'4-TrCB | ND | | 0.8426 | | | | | 1.43 | ND | 2.89E+03 | 14 |
| PCB-31 24'5-TrCB | 21.99 | | 0.8534 | 0.8531 | -0.4 | 1.10E+05 | 0.92 | 1.37 | 57.2 | 2.89E+03 | 14.6 |
| PCB-28/20 244'/233'-TrCB | 22.26 | C | 0.8642 | 0.8634 | -1.1 | 1.19E+05 | 0.94 | 1.28 | 66.2 | 2.89E+03 | 15.6 |
| PCB-21/33 234/23'4'-TrCB | 22.49 | J EMPC C | 0.8710 | 0.8722 | +1.6 | 5.61E+04 | 1.22 | 1.23 | 32.4 | 2.89E+03 | 16.2 |
| PCB-22 234'-TrCB | ND | | 0.8859 | | | | | 1.33 | ND | 2.89E+03 | 15.1 |
| PCB-36 33'5-TrCB | ND | | 0.9383 | | | | | 1.38 | ND | 2.89E+03 | 14.5 |
| PCB-39 34'5-TrCB | 24.51 | J EMPC | 0.9508 | 0.9508 | 0 | 2.51E+04 | 1.25 | 1.26 | 14.2 | 2.89E+03 | 15.9 |
| PCB-38 345-TrCB | ND | | 0.9709 | | | | | 1.27 | ND | 2.89E+03 | 15.8 |
| PCB-35 33'4-TrCB | 25.44 | | 0.9867 | 0.9868 | +0.2 | 4.24E+04 | 1.08 | 1.19 | 25.3 | 2.89E+03 | 16.8 |
| PCB-37 344'-TrCB | 25.80 | | 1.0007 | 1.0007 | 0 | 5.14E+04 | 0.99 | 1.43 | 25.5 | 2.89E+03 | 14 |
| PCB-54 22'66'-TeCB | ND | | 1.0010 | | | | | 1.52 | ND | 1.21E+03 | 6.62 |
| PCB-50/53 22'46/22'56'-TeCB | ND | C | 0.9128 | | | | | 0.86 | ND | 1.47E+03 | 12.2 |
| PCB-45 22'36'-TeCB | 22.36 | J | 0.9377 | 0.9376 | -0.1 | 1.65E+04 | 0.87 | 0.72 | 15.3 | 1.47E+03 | 14.5 |
| PCB-51 22'46'-TeCB | 22.43 | J | 0.9403 | 0.9404 | +0.1 | 2.02E+04 | 0.73 | 0.87 | 15.6 | 1.47E+03 | 12 |
| PCB-46 22'36'-TeCB | ND | | 0.9496 | | | | | 0.68 | ND | 1.47E+03 | 15.3 |
| PCB-52 22'55'-TeCB | 23.88 | | 1.0010 | 1.0012 | +0.3 | 1.34E+05 | 0.80 | 0.97 | 92.1 | 1.47E+03 | 10.8 |
| PCB-73 23'5'6'-TeCB | ND | | 1.0061 | | | | | 1.19 | ND | 1.47E+03 | 8.82 |

Lab ID: MB1_21382_PCB_SDS

ACQ: 17-Sep-2024 17:58:55 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Method Blank B9770_21382

UTP: 20-Sep-2024 10:52:50 PSW

J-level: 20 pg Split: 2

Checkcode: 634-357-DMX/C

Datafile: 240917S08

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|---------------------------------|--------------|----------|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-43 22'35'-TeCB | ND | | 1.0099 | | | | | 0.81 | ND | 1.47E+03 | 12.9 |
| PCB-69/49 23'46/22'45'-TeCB | 24.30 | J EMPC C | 1.0177 | 1.0191 | +2.0 | 5.71E+04 | 0.65 | 0.97 | 39.4 | 1.47E+03 | 10.8 |
| PCB-48 22'45'-TeCB | ND | | 1.0295 | | | | | 0.83 | ND | 1.47E+03 | 12.7 |
| PCB-44/47/65 ...-TeCB | 24.77 | C | 1.0386 | 1.0388 | +0.3 | 1.38E+05 | 0.74 | 0.94 | 97.8 | 1.47E+03 | 11.1 |
| PCB-59/62/75 ...-TeCB | ND | C | 1.0499 | | | | | 1.09 | ND | 1.47E+03 | 9.63 |
| PCB-42 22'34'-TeCB | ND | | 1.0575 | | | | | 0.73 | ND | 1.47E+03 | 14.3 |
| PCB-41 22'34'-TeCB | ND | | 1.0713 | | | | | 0.63 | ND | 1.47E+03 | 16.6 |
| PCB-71/40 23'4'6/22'33'-TeCB | 25.65 | J C | 1.0755 | 1.0754 | -0.2 | 3.03E+04 | 0.68 | 0.92 | 22.2 | 1.47E+03 | 11.4 |
| PCB-64 234'6'-TeCB | 25.84 | J EMPC | 1.0836 | 1.0833 | -0.5 | 2.09E+04 | 0.56 | 1.11 | 12.7 | 1.47E+03 | 9.44 |
| PCB-72 23'55'-TeCB | ND | | 0.8404 | | | | | 1.20 | ND | 3.09E+03 | 18.4 |
| PCB-68 23'45'-TeCB | ND | | 0.8483 | | | | | 1.13 | ND | 3.09E+03 | 19.5 |
| PCB-57 233'5'-TeCB | ND | | 0.8601 | | | | | 1.14 | ND | 3.09E+03 | 19.3 |
| PCB-58 233'5'-TeCB | ND | | 0.8668 | | | | | 1.31 | ND | 3.09E+03 | 16.8 |
| PCB-67 23'45'-TeCB | 27.53 | J | 0.8713 | 0.8714 | +0.2 | 2.49E+04 | 0.82 | 1.32 | 12.7 | 3.09E+03 | 16.7 |
| PCB-63 234'5'-TeCB | ND | | 0.8785 | | | | | 1.08 | ND | 3.09E+03 | 20.3 |
| PCB-61/70/74/76 ...-TeCB | 28.05 | C | 0.8878 | 0.8880 | +0.3 | 1.47E+05 | 0.72 | 1.18 | 83.9 | 3.09E+03 | 18.7 |
| PCB-66 23'44'-TeCB | 28.33 | EMPC | 0.8967 | 0.8969 | +0.3 | 6.17E+04 | 0.60 | 1.23 | 33.5 | 3.09E+03 | 17.8 |
| PCB-55 233'4'-TeCB | ND | | 0.9016 | | | | | 1.22 | ND | 3.09E+03 | 18.1 |
| PCB-56 233'4'-TeCB | ND | | 0.9155 | | | | | 1.20 | ND | 3.09E+03 | 18.3 |
| PCB-60 2344'-TeCB | ND | | 0.9214 | | | | | 1.04 | ND | 3.09E+03 | 21.2 |
| PCB-80 33'55'-TeCB | ND | | 0.9309 | | | | | 1.32 | ND | 3.09E+03 | 16.7 |
| PCB-79 33'45'-TeCB | ND | | 0.9732 | | | | | 1.45 | ND | 3.09E+03 | 15.1 |
| PCB-78 33'45'-TeCB | ND | | 0.9884 | | | | | 1.18 | ND | 3.09E+03 | 18.6 |
| PCB-104 22'466'-PeCB | ND | | 1.0009 | | | | | 1.46 | ND | 7.23E+02 | 4.14 |
| PCB-96 22'366'-PeCB | ND | | 1.0147 | | | | | 1.19 | ND | 7.23E+02 | 5.09 |
| PCB-103 22'45'6'-PeCB | ND | | 0.8968 | | | | | 0.72 | ND | 1.22E+03 | 10.4 |
| PCB-94 22'356'-PeCB | ND | | 0.9036 | | | | | 0.59 | ND | 1.22E+03 | 12.6 |
| PCB-95 22'35'6'-PeCB | 27.30 | | 0.9167 | 0.9168 | +0.2 | 7.69E+04 | 0.64 | 0.68 | 69.2 | 1.22E+03 | 10.9 |
| PCB-100/93 22'44'6/22'356'-PeCB | ND | C | 0.9229 | | | | | 0.65 | ND | 1.22E+03 | 11.4 |
| PCB-102 22'456'-PeCB | ND | | 0.9269 | | | | | 0.85 | ND | 1.22E+03 | 8.76 |
| PCB-98 22'34'6'-PeCB | ND | | 0.9292 | | | | | 0.72 | ND | 1.22E+03 | 10.3 |
| PCB-88 22'346'-PeCB | ND | | 0.9390 | | | | | 0.61 | ND | 1.22E+03 | 12.2 |
| PCB-91 22'34'6'-PeCB | ND | | 0.9416 | | | | | 0.72 | ND | 1.22E+03 | 10.4 |
| PCB-84 22'33'6'-PeCB | 28.25 | J EMPC | 0.9486 | 0.9485 | -0.2 | 1.72E+04 | 0.75 | 0.57 | 18.6 | 1.22E+03 | 13.1 |
| PCB-89 22'346'-PeCB | ND | | 0.9623 | | | | | 0.69 | ND | 1.22E+03 | 10.8 |
| PCB-121 23'45'6'-PeCB | ND | | 0.9725 | | | | | 1.05 | ND | 1.22E+03 | 7.11 |
| PCB-92 22'355'-PeCB | 29.30 | J EMPC | 0.9839 | 0.9838 | -0.2 | 1.65E+04 | 0.92 | 0.68 | 14.7 | 1.22E+03 | 10.9 |
| PCB-113/90/101 ...-PeCB | 29.80 | EMPC C | 0.9999 | 1.0007 | +1.4 | 9.79E+04 | 0.73 | 0.81 | 73.9 | 1.22E+03 | 9.17 |
| PCB-83 22'33'5'-PeCB | ND | | 1.0148 | | | | | 0.59 | ND | 1.22E+03 | 12.6 |
| PCB-99 22'44'5'-PeCB | 30.30 | | 1.0174 | 1.0173 | -0.2 | 4.23E+04 | 0.62 | 0.94 | 27.5 | 1.22E+03 | 7.89 |
| PCB-112 233'56'-PeCB | ND | | 1.0210 | | | | | 1.13 | ND | 1.22E+03 | 6.59 |

Lab ID: MB1_21382_PCB_SDS

ACQ: 17-Sep-2024 17:58:55 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Method Blank B9770_21382

UTP: 20-Sep-2024 10:52:50 PSW

J-level: 20 pg Split: 2

Checkcode: 634-357-DMX/C

Datafile: 240917S08

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------------|-----------|----------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-109/119/86/97/125...-PeCB | 30.77 | J EMPC C | 1.0327 | 1.0334 | +1.3 | 6.95E+04 | 0.48 | 0.89 | 47.8 | 1.22E+03 | 8.36 |
| PCB-117 234'56-PeCB | ND | | 1.0504 | | | | | 0.95 | ND | 1.22E+03 | 7.82 |
| PCB-116/85 23456/22'344'-PeCB | ND | C | 1.0533 | | | | | 0.84 | ND | 1.22E+03 | 8.87 |
| PCB-110 233'4'6-PeCB | 31.52 | | 1.0579 | 1.0583 | +0.8 | 9.96E+04 | 0.67 | 1.12 | 54.3 | 1.22E+03 | 6.63 |
| PCB-115 2344'6-PeCB | ND | | 1.0600 | | | | | 1.11 | ND | 1.22E+03 | 6.7 |
| PCB-82 22'33'4-PeCB | ND | | 1.0675 | | | | | 0.72 | ND | 1.22E+03 | 10.4 |
| PCB-111 233'55'-PeCB | 32.07 | J EMPC | 1.0770 | 1.0769 | -0.2 | 1.79E+04 | 0.82 | 1.00 | 10.9 | 1.22E+03 | 7.42 |
| PCB-120 23'455'-PeCB | 32.48 | J EMPC | 1.0902 | 1.0906 | +0.8 | 1.77E+04 | 1.25 | 1.22 | 8.91 | 1.22E+03 | 6.11 |
| PCB-108/124 ...-PeCB | 33.45 | J EMPC C | 0.9915 | 0.9916 | +0.2 | 1.86E+04 | 0.84 | 1.03 | 11.1 | 1.22E+03 | 7.26 |
| PCB-107 233'4'5-PeCB | 33.65 | J EMPC | 0.9975 | 0.9976 | +0.2 | 2.41E+04 | 0.79 | 1.08 | 13.7 | 1.22E+03 | 6.87 |
| PCB-106 233'45-PeCB | ND | | 1.0038 | | | | | 1.07 | ND | 1.22E+03 | 6.95 |
| PCB-122 233'4'5'-PeCB | ND | | 1.0096 | | | | | 0.82 | ND | 1.22E+03 | 10.4 |
| PCB-127 33'455'-PeCB | 36.27 | J EMPC | 1.0352 | 1.0354 | +0.4 | 1.56E+04 | 0.85 | 1.05 | 9.18 | 1.22E+03 | 7.65 |
| PCB-155 22'44'66'-HxCB | ND | | 1.0007 | | | | | 1.36 | ND | 6.31E+02 | 3.37 |
| PCB-152 22'3566'-HxCB | ND | | 1.0075 | | | | | 1.16 | ND | 6.31E+02 | 3.94 |
| PCB-150 22'34'66'-HxCB | ND | | 1.0119 | | | | | 1.00 | ND | 6.31E+02 | 4.56 |
| PCB-136 22'33'66'-HxCB | 30.25 | J EMPC | 1.0230 | 1.0229 | -0.2 | 2.53E+04 | 1.46 | 0.97 | 17.9 | 6.31E+02 | 4.73 |
| PCB-145 22'3466'-HxCB | ND | | 1.0313 | | | | | 1.09 | ND | 6.31E+02 | 4.18 |
| PCB-148 22'34'56'-HxCB | ND | | 1.0735 | | | | | 1.00 | ND | 6.31E+02 | 4.63 |
| PCB-151/135 ...-HxCB | 32.30 | J C | 1.0919 | 1.0920 | +0.2 | 4.29E+04 | 1.29 | 0.98 | 32 | 6.31E+02 | 4.72 |
| PCB-154 22'44'56'-HxCB | ND | | 1.0979 | | | | | 1.06 | ND | 6.31E+02 | 4.38 |
| PCB-144 22'345'6-HxCB | 32.75 | J | 1.1074 | 1.1071 | -0.6 | 1.18E+04 | 1.23 | 0.99 | 8.71 | 6.31E+02 | 4.67 |
| PCB-147/149 ...-HxCB | 33.06 | C | 1.1177 | 1.1176 | -0.2 | 9.08E+04 | 1.18 | 1.08 | 61.4 | 6.31E+02 | 4.28 |
| PCB-134 22'33'56-HxCB | ND | | 1.1238 | | | | | 0.78 | ND | 6.31E+02 | 5.93 |
| PCB-143 22'3456'-HxCB | ND | | 1.1264 | | | | | 0.97 | ND | 6.31E+02 | 4.76 |
| PCB-139/140 ...-HxCB | 33.58 | J EMPC C | 1.1348 | 1.1352 | +0.8 | 2.82E+03 | 8.61 | 1.03 | 1.99 | 6.31E+02 | 4.48 |
| PCB-131 22'33'46-HxCB | ND | | 1.1412 | | | | | 0.91 | ND | 6.31E+02 | 5.08 |
| PCB-142 22'3456-HxCB | ND | | 1.1457 | | | | | 0.89 | ND | 6.31E+02 | 5.2 |
| PCB-132 22'33'46'-HxCB | 34.15 | J | 1.1544 | 1.1544 | 0 | 2.17E+04 | 1.32 | 0.94 | 16.9 | 6.31E+02 | 4.92 |
| PCB-133 22'33'55'-HxCB | ND | | 1.1672 | | | | | 1.03 | ND | 6.31E+02 | 4.49 |
| PCB-165 233'55'6-HxCB | ND | | 0.9512 | | | | | 1.23 | ND | 6.31E+02 | 3.76 |
| PCB-146 22'34'55'-HxCB | 35.07 | J | 0.9571 | 0.9570 | -0.2 | 2.57E+04 | 1.14 | 1.17 | 16.1 | 6.31E+02 | 3.95 |
| PCB-161 233'45'6-HxCB | ND | | 0.9601 | | | | | 1.42 | ND | 6.31E+02 | 3.25 |
| PCB-153/168 ...-HxCB | 35.59 | C | 0.9718 | 0.9713 | -1.1 | 7.62E+04 | 1.11 | 1.27 | 43.8 | 6.31E+02 | 3.64 |
| PCB-141 22'3455'-HxCB | 35.77 | J EMPC | 0.9762 | 0.9761 | -0.2 | 2.22E+04 | 1.55 | 0.96 | 17 | 6.31E+02 | 4.83 |
| PCB-130 22'33'45'-HxCB | ND | | 0.9857 | | | | | 0.83 | ND | 6.31E+02 | 5.56 |
| PCB-137 22'344'5-HxCB | ND | | 0.9909 | | | | | 1.01 | ND | 6.31E+02 | 4.57 |
| PCB-164 233'4'5'6-HxCB | ND | | 0.9935 | | | | | 1.33 | ND | 6.31E+02 | 3.49 |
| PCB-163/138/129 ...-HxCB | 36.67 | J EMPC C | 1.0011 | 1.0007 | -0.9 | 5.18E+04 | 0.92 | 1.03 | 36.7 | 6.31E+02 | 4.48 |
| PCB-160 233'456-HxCB | ND | | 1.0045 | | | | | 1.20 | ND | 6.31E+02 | 3.85 |
| PCB-158 233'44'6-HxCB | 37.01 | J EMPC | 1.0096 | 1.0098 | +0.4 | 3.26E+04 | 0.99 | 1.35 | 17.6 | 6.31E+02 | 3.41 |

Lab ID: MB1_21382_PCB_SDS

ACQ: 17-Sep-2024 17:58:55 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Method Blank B9770_21382

UTP: 20-Sep-2024 10:52:50 PSW

J-level: 20 pg Split: 2

Checkcode: 634-357-DMX/C

Datafile: 240917S08

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

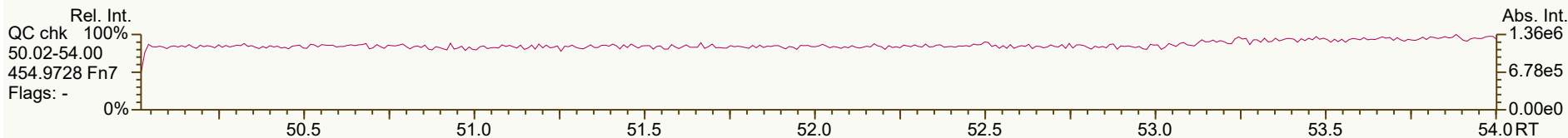
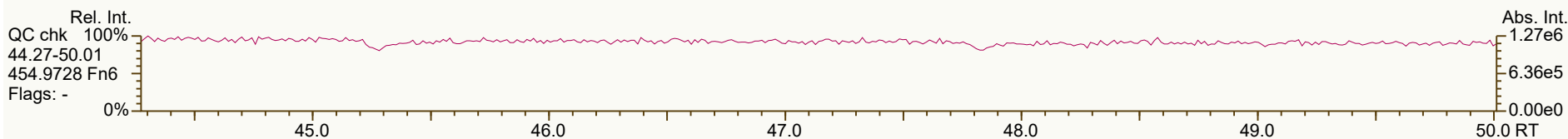
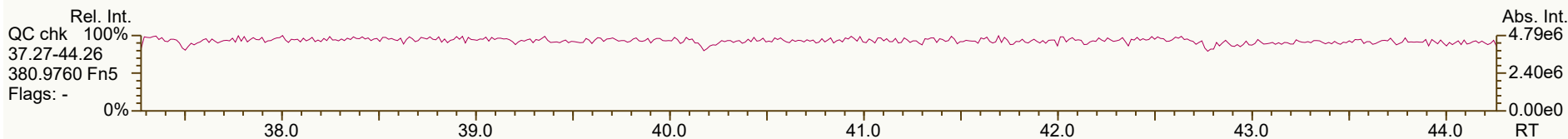
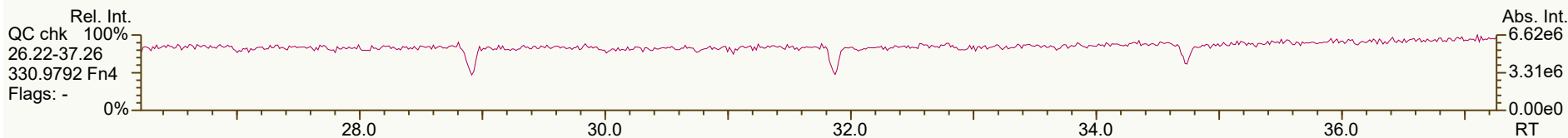
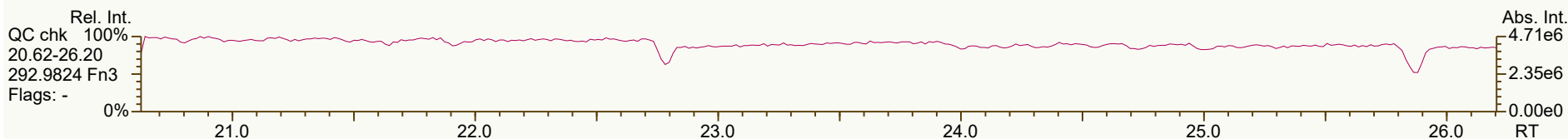
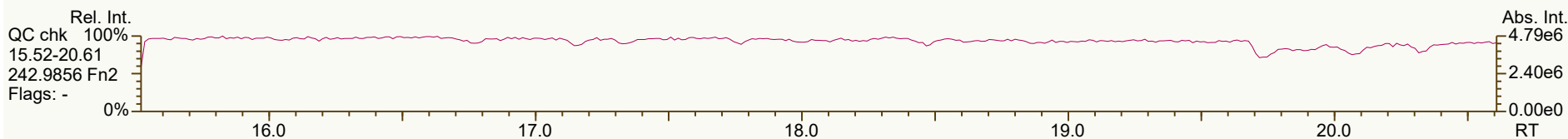
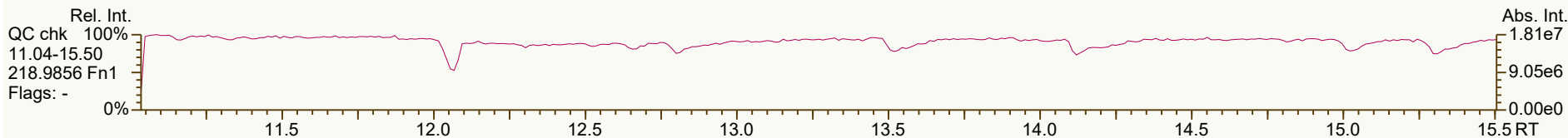
Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-------------------|----------|-------------------|-------------------|--------------|---------------------|-----------------|-----------------|-------------------|-------------------|-----------------|
| PCB-128/166 ...-HxCB | ND | C | 0.9635 | | | | | 0.88 | ND | 9.29E+02 | 7.57 |
| PCB-159 233'455'-HxCB | ND | | 0.9840 | | | | | 1.16 | ND | 9.29E+02 | 5.74 |
| PCB-162 233'4'55'-HxCB | ND | | 0.9902 | | | | | 0.99 | ND | 9.29E+02 | 6.73 |
| PCB-188 22'34'566'-HpCB | ND | | 1.0006 | | | | | 1.55 | ND | 7.08E+02 | 4.84 |
| PCB-179 22'33'566'-HpCB | 34.78 | J | 1.0095 | 1.0098 | +0.6 | 1.58E+04 | 1.09 | 1.32 | 12.4 | 7.08E+02 | 5.69 |
| PCB-184 22'344'66'-HpCB | ND | | 1.0219 | | | | | 1.20 | ND | 7.08E+02 | 6.22 |
| PCB-176 22'33'466'-HpCB | ND | | 1.0312 | | | | | 1.13 | ND | 7.08E+02 | 6.62 |
| PCB-186 22'34566'-HpCB | ND | | 1.0427 | | | | | 1.35 | ND | 7.08E+02 | 5.52 |
| PCB-178 22'33'55'6'-HpCB | ND | | 1.0752 | | | | | 0.90 | ND | 7.08E+02 | 8.35 |
| PCB-175 22'33'45'6'-HpCB | ND | | 1.0908 | | | | | 0.96 | ND | 1.27E+03 | 10.1 |
| PCB-187 22'34'55'6'-HpCB | 37.78 | J | 1.0974 | 1.0971 | -0.7 | 3.28E+04 | 1.09 | 1.18 | 19.1 | 1.27E+03 | 8.23 |
| PCB-182 22'344'56'-HpCB | ND | | 1.1024 | | | | | 1.13 | ND | 1.27E+03 | 8.54 |
| PCB-183 22'344'5'6'-HpCB | 38.31 | J EMPC | 1.1124 | 1.1123 | -0.2 | 2.04E+04 | 0.74 | 1.07 | 13.1 | 1.27E+03 | 9.07 |
| PCB-185 22'3455'6'-HpCB | ND | | 1.1152 | | | | | 0.92 | ND | 1.27E+03 | 10.5 |
| PCB-174 22'33'456'-HpCB | 38.53 | J | 1.1187 | 1.1186 | -0.2 | 2.48E+04 | 1.01 | 1.02 | 16.6 | 1.27E+03 | 9.45 |
| PCB-177 22'33'45'6'-HpCB | ND | | 1.1296 | | | | | 1.03 | ND | 1.27E+03 | 9.43 |
| PCB-181 22'344'56'-HpCB | ND | | 1.1391 | | | | | 1.08 | ND | 1.27E+03 | 8.94 |
| PCB-171/173 ...-HpCB | ND | C | 1.1447 | | | | | 0.91 | ND | 1.27E+03 | 10.6 |
| PCB-172 22'33'455'-HpCB | ND | | 0.9065 | | | | | 0.96 | ND | 1.27E+03 | 10.1 |
| PCB-192 233'455'6'-HpCB | ND | | 0.9118 | | | | | 1.39 | ND | 1.27E+03 | 6.97 |
| PCB-180/193 ...-HpCB | 41.32 | J EMPC C | 0.9181 | 0.9190 | +2.2 | 4.08E+04 | 1.29 | 1.15 | 24.3 | 1.27E+03 | 8.41 |
| PCB-191 233'44'5'6'-HpCB | ND | | 0.9253 | | | | | 1.24 | ND | 1.27E+03 | 7.82 |
| PCB-170 22'33'44'5'-HpCB | 42.38 | J EMPC | 0.9427 | 0.9424 | -0.8 | 9.80E+03 | 1.54 | 1.04 | 7.78 | 1.27E+03 | 10.9 |
| PCB-190 233'44'56'-HpCB | ND | | 0.9525 | | | | | 1.43 | ND | 1.27E+03 | 7.88 |
| PCB-202 22'33'55'66'-OcCB | ND | | 1.0005 | | | | | 1.32 | ND | 6.53E+02 | 3.83 |
| PCB-201 22'33'45'66'-OcCB | ND | | 1.0204 | | | | | 0.95 | ND | 6.53E+02 | 5.31 |
| PCB-204 22'344'566'-OcCB | ND | | 1.0349 | | | | | 1.09 | ND | 6.53E+02 | 4.63 |
| PCB-197 22'33'44'66'-OcCB | ND | | 1.0399 | | | | | 1.04 | ND | 6.53E+02 | 4.87 |
| PCB-200 22'33'4566'-OcCB | ND | | 1.0428 | | | | | 0.98 | ND | 6.53E+02 | 5.17 |
| PCB-198/199 ...-OcCB | ND | C | 1.1020 | | | | | 0.88 | ND | 6.53E+02 | 5.78 |
| PCB-196 22'33'44'56'-OcCB | ND | | 1.1166 | | | | | 0.78 | ND | 6.53E+02 | 6.45 |
| PCB-203 22'344'55'6'-OcCB | ND | | 1.1208 | | | | | 0.97 | ND | 6.53E+02 | 5.23 |
| PCB-195 22'33'44'56'-OcCB | ND | | 0.9499 | | | | | 0.74 | ND | 7.54E+02 | 8.58 |
| PCB-194 22'33'44'55'-OcCB | ND | | 0.9914 | | | | | 0.81 | ND | 7.54E+02 | 7.84 |
| PCB-205 233'44'55'6'-OcCB | ND | | 1.0004 | | | | | 1.12 | ND | 7.54E+02 | 5.68 |
| PCB-208 22'33'455'66'-NoCB | ND | | 1.0005 | | | | | 1.11 | ND | 3.04E+03 | 19 |
| PCB-207 22'33'44'566'-NoCB | ND | | 1.0180 | | | | | 0.90 | ND | 3.04E+03 | 23.5 |
| PCB-206 22'33'44'55'6'-NoCB | ND | | 1.0005 | | | | | 1.04 | ND | 3.04E+03 | 35.4 |
| AS PCB-32 FS | 19.941 | | 1.2584 | 1.2589 | +0.6 | 6.75E+06 | 1.05 | 0.77 | 97.5 % | 50% | 150% |
| AS PCB-97 FS | 30.723 | V | 1.0317 | 1.0317 | 0 | 4.17E+06 | 1.46 | 0.86 | 69.1 % | 50% | 150% |
| AS PCB-159 NR | 38.518 | | 1.0511 | 1.0511 | 0 | 7.85E+06 | 1.12 | 1.57 | 75.6 % | 50% | 150% |
| | | | | | | | | | | 75% | 125% |

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



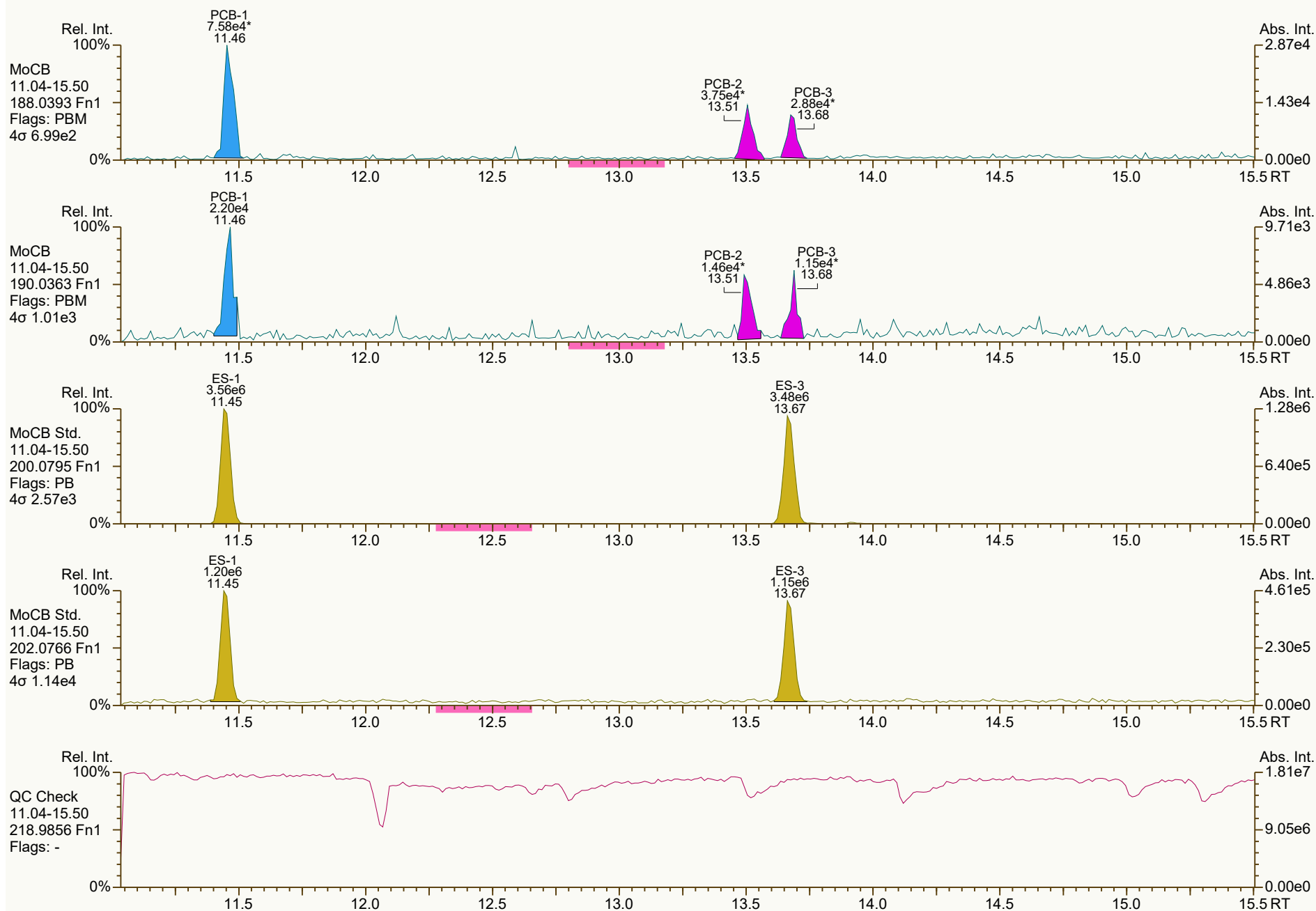
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Peak annotation: Areas, Centroids
PKD: n/a Printed: 20-Sep-2024 11:01 Page 1 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



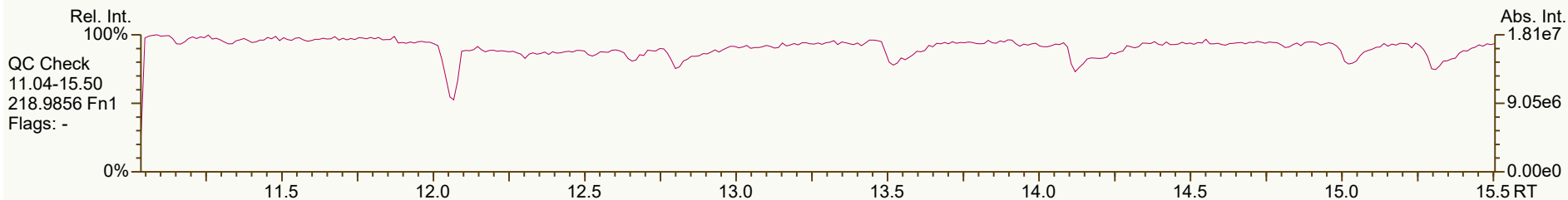
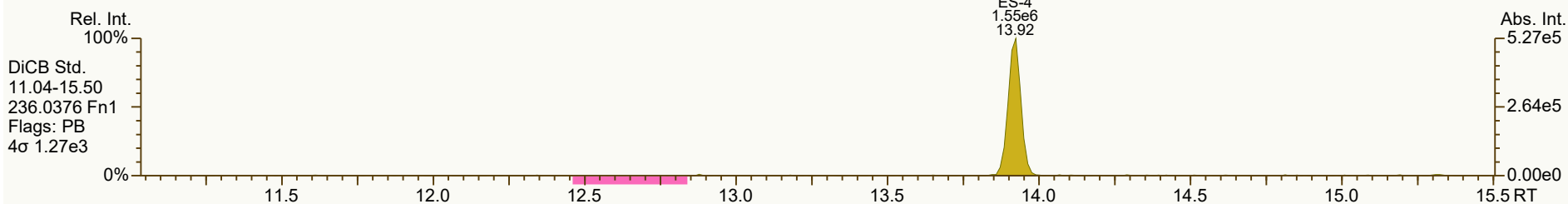
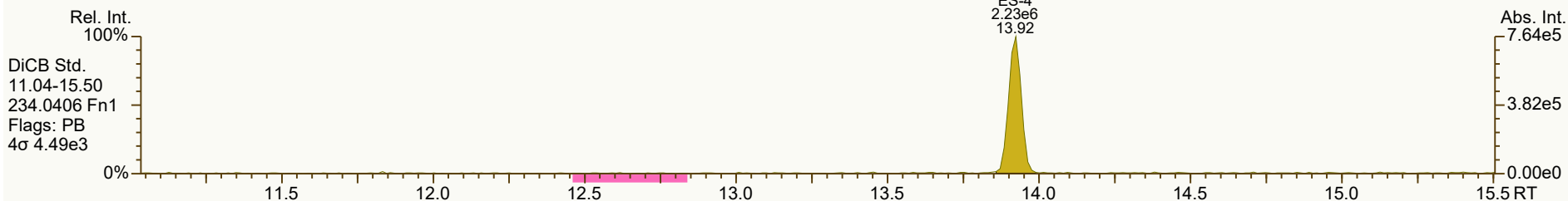
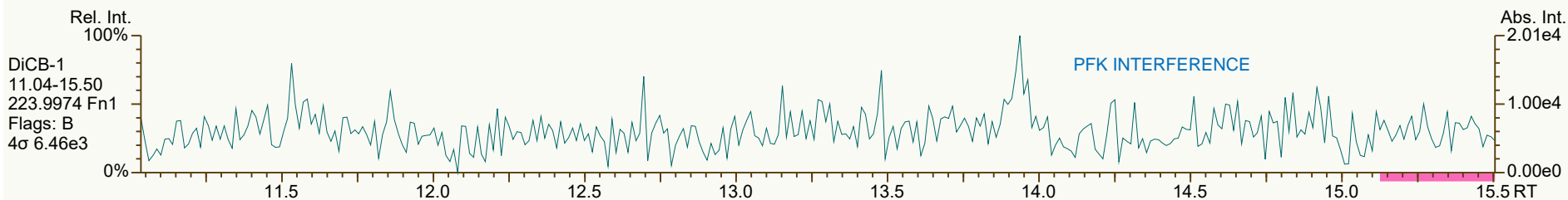
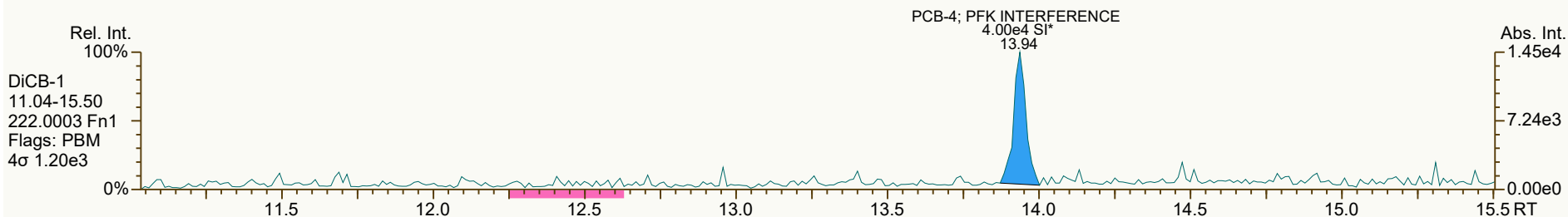
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 2 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



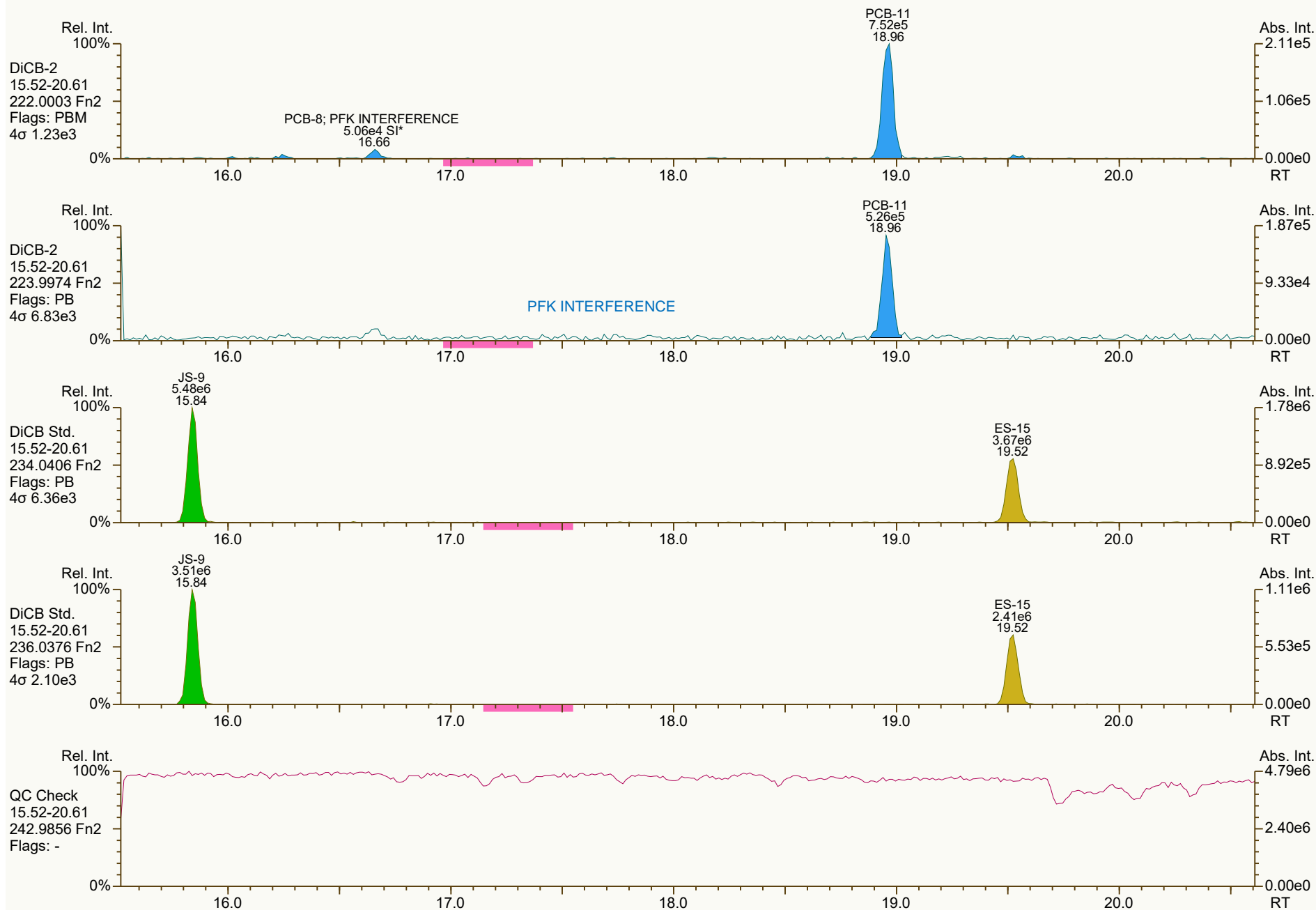
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Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 15:41 (PSW) Printed: 20-Sep-2024 11:01 Page 3 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



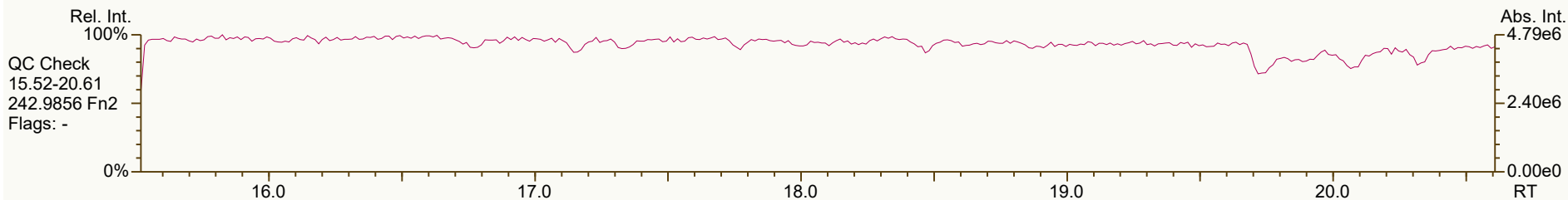
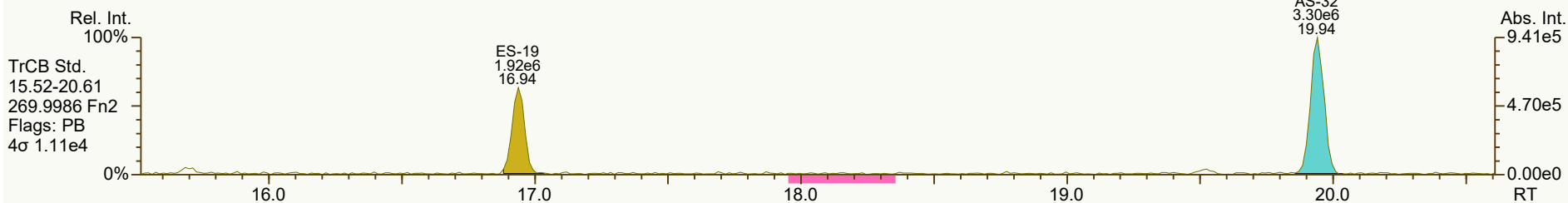
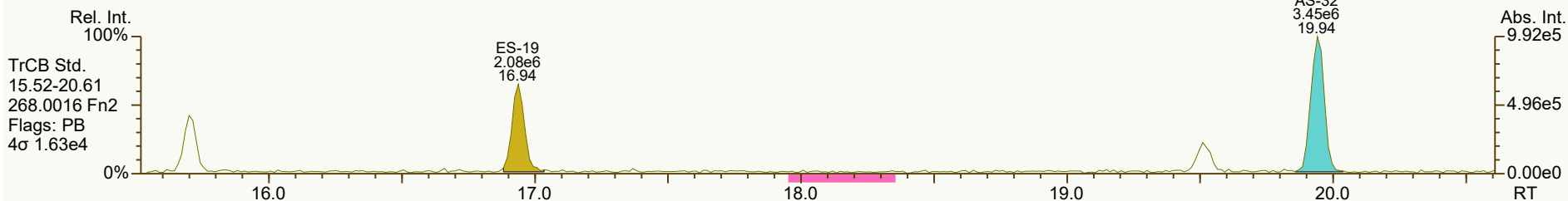
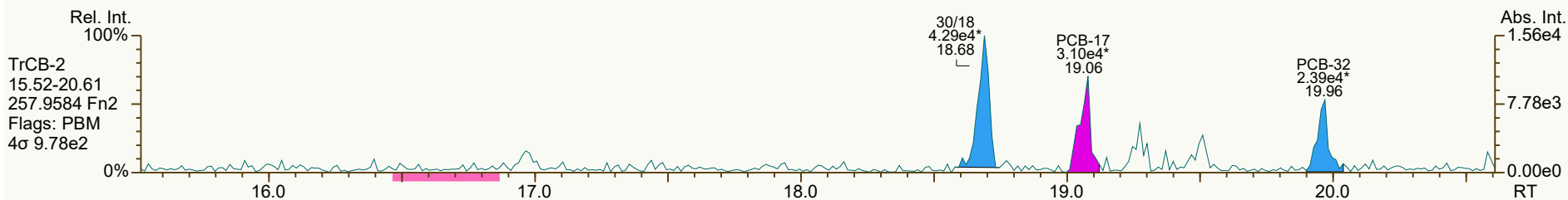
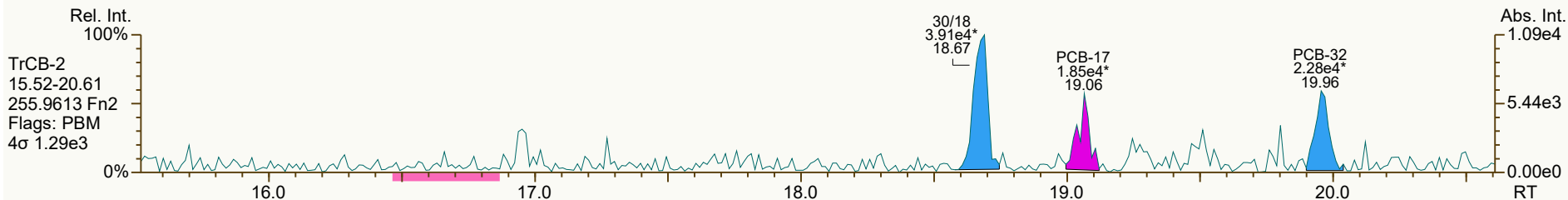
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 4 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



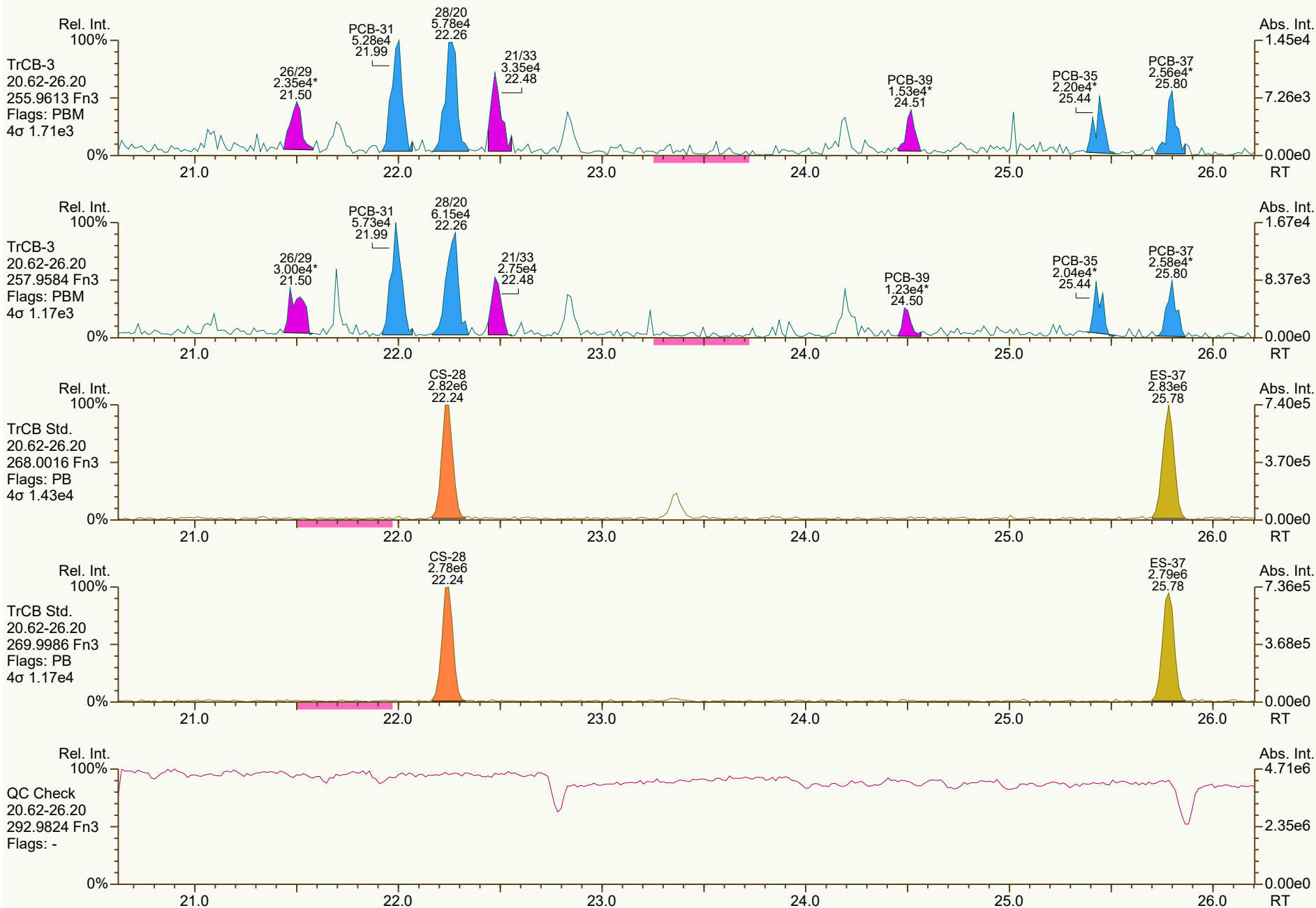
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 5 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



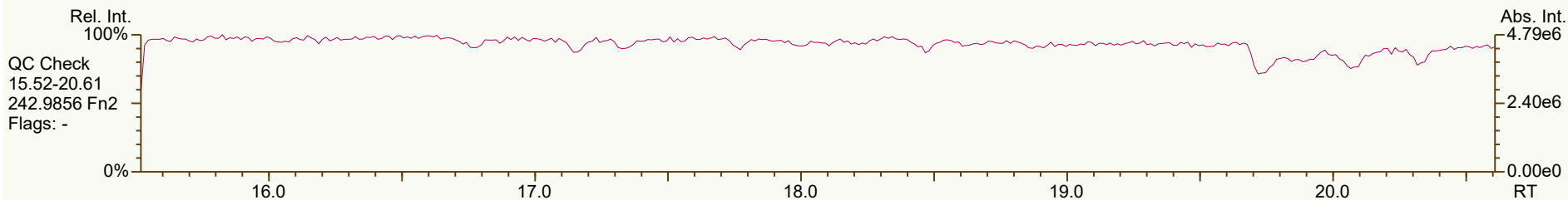
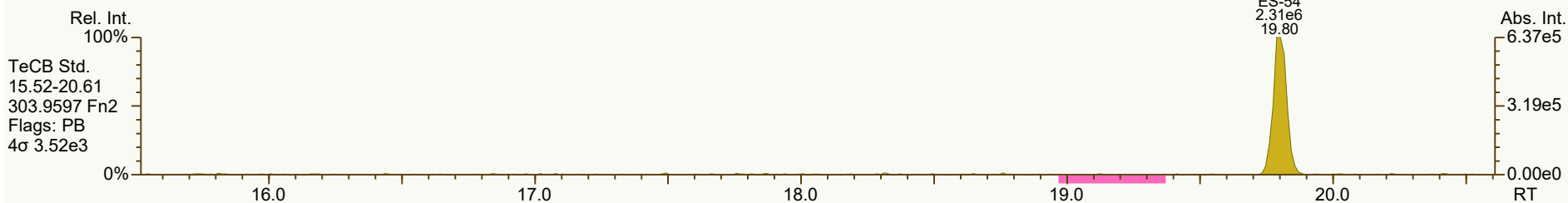
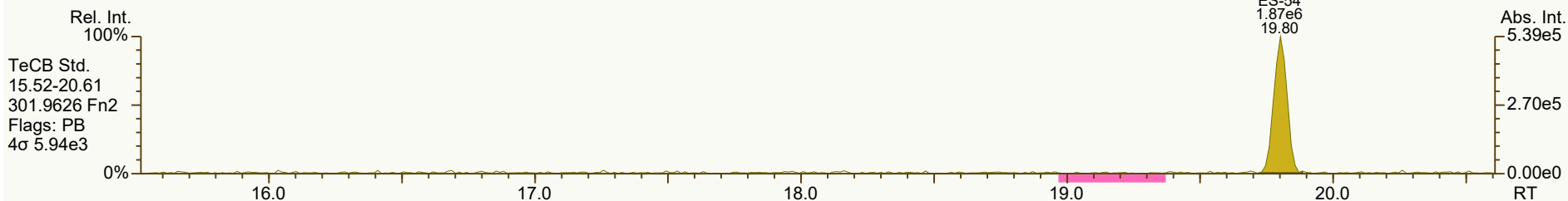
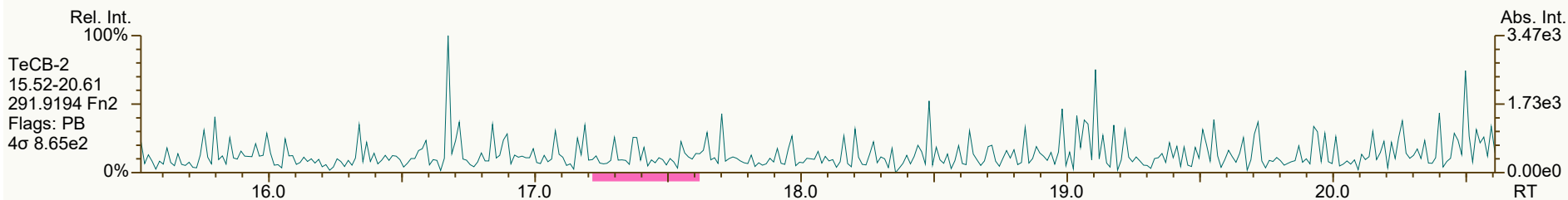
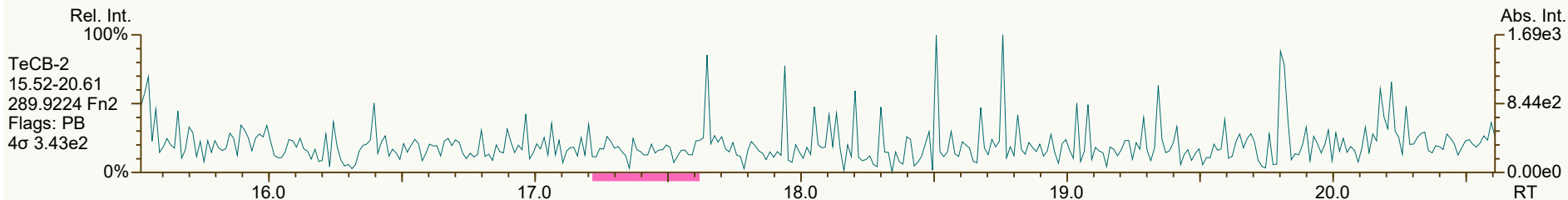
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 6 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



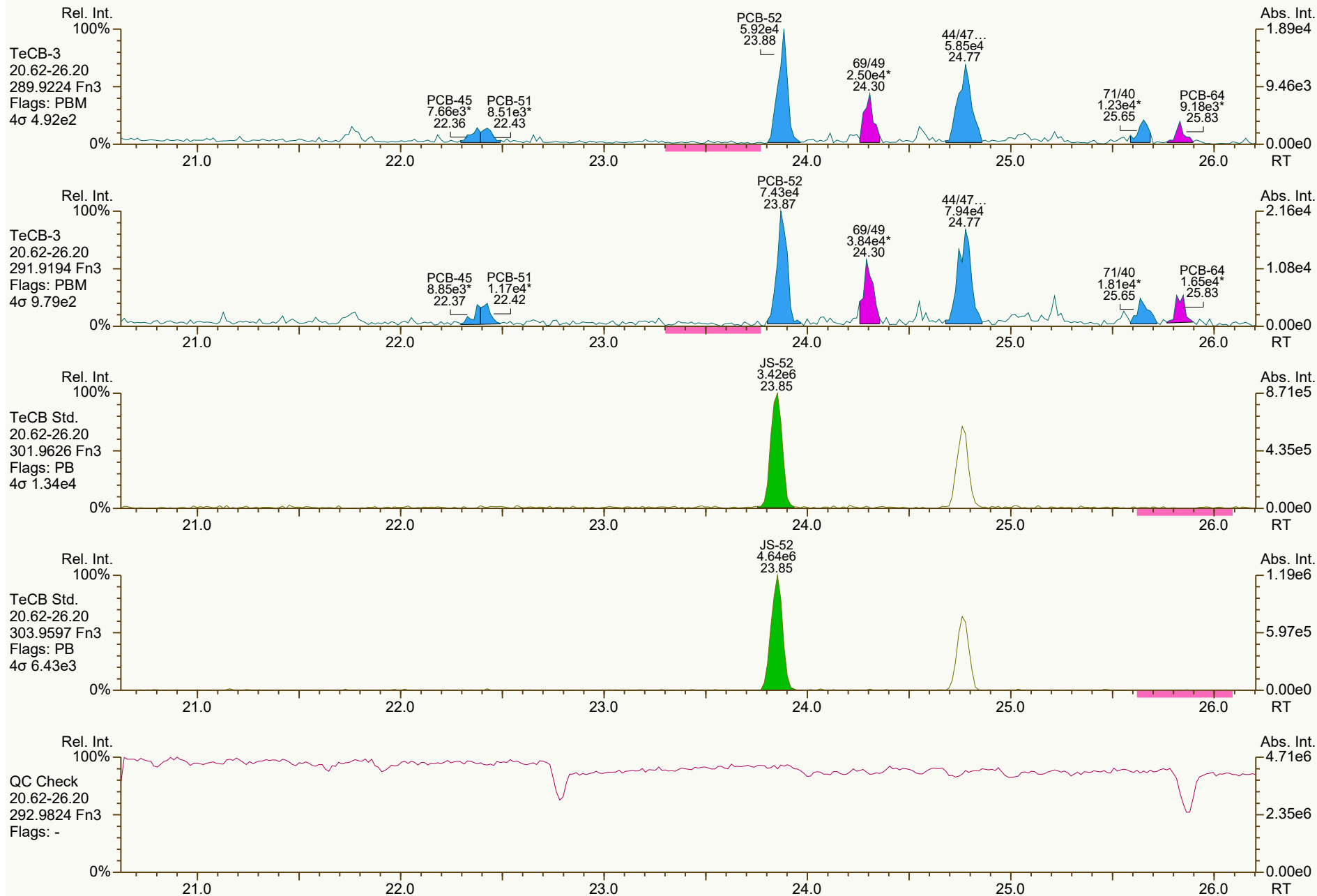
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Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 15:40 (PSW) Printed: 20-Sep-2024 11:01 Page 7 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



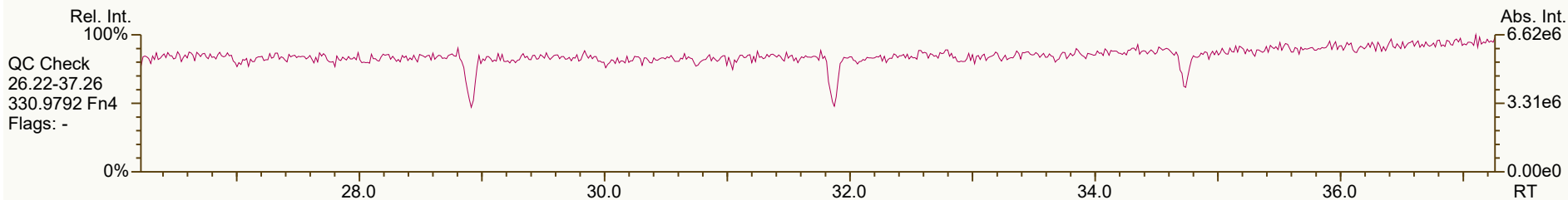
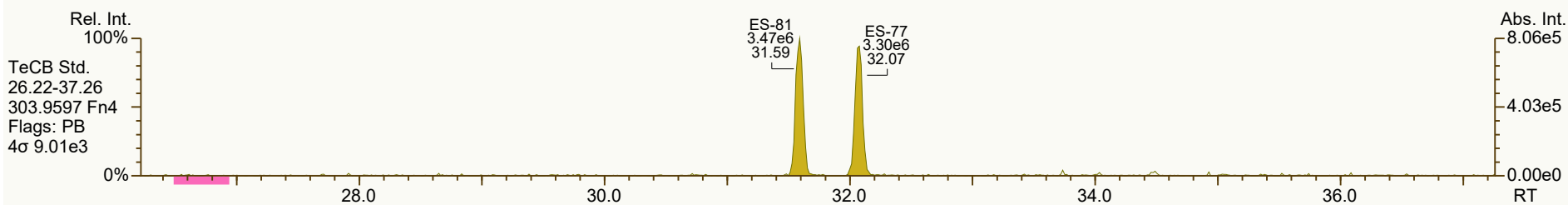
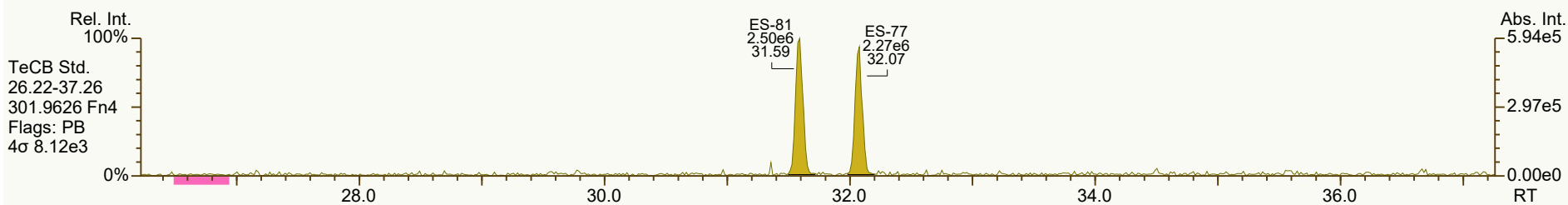
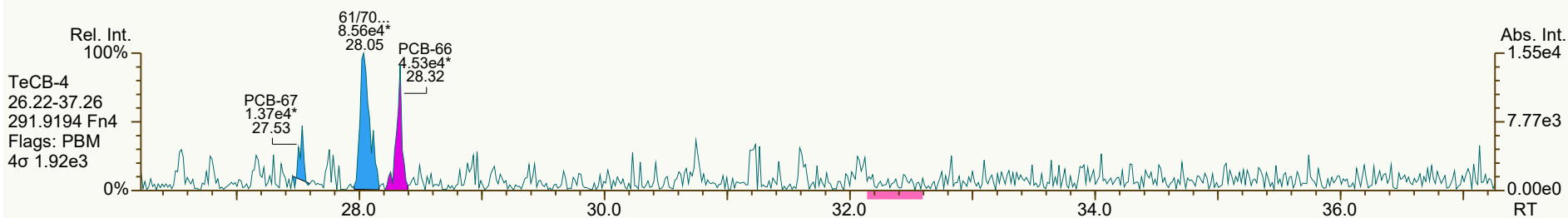
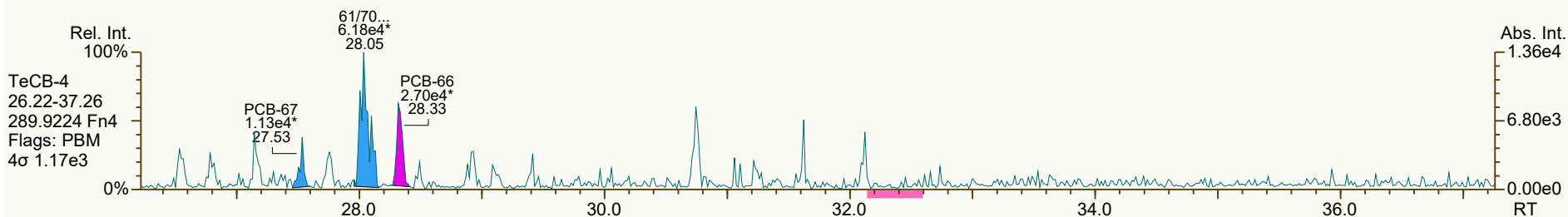
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 8 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 9 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



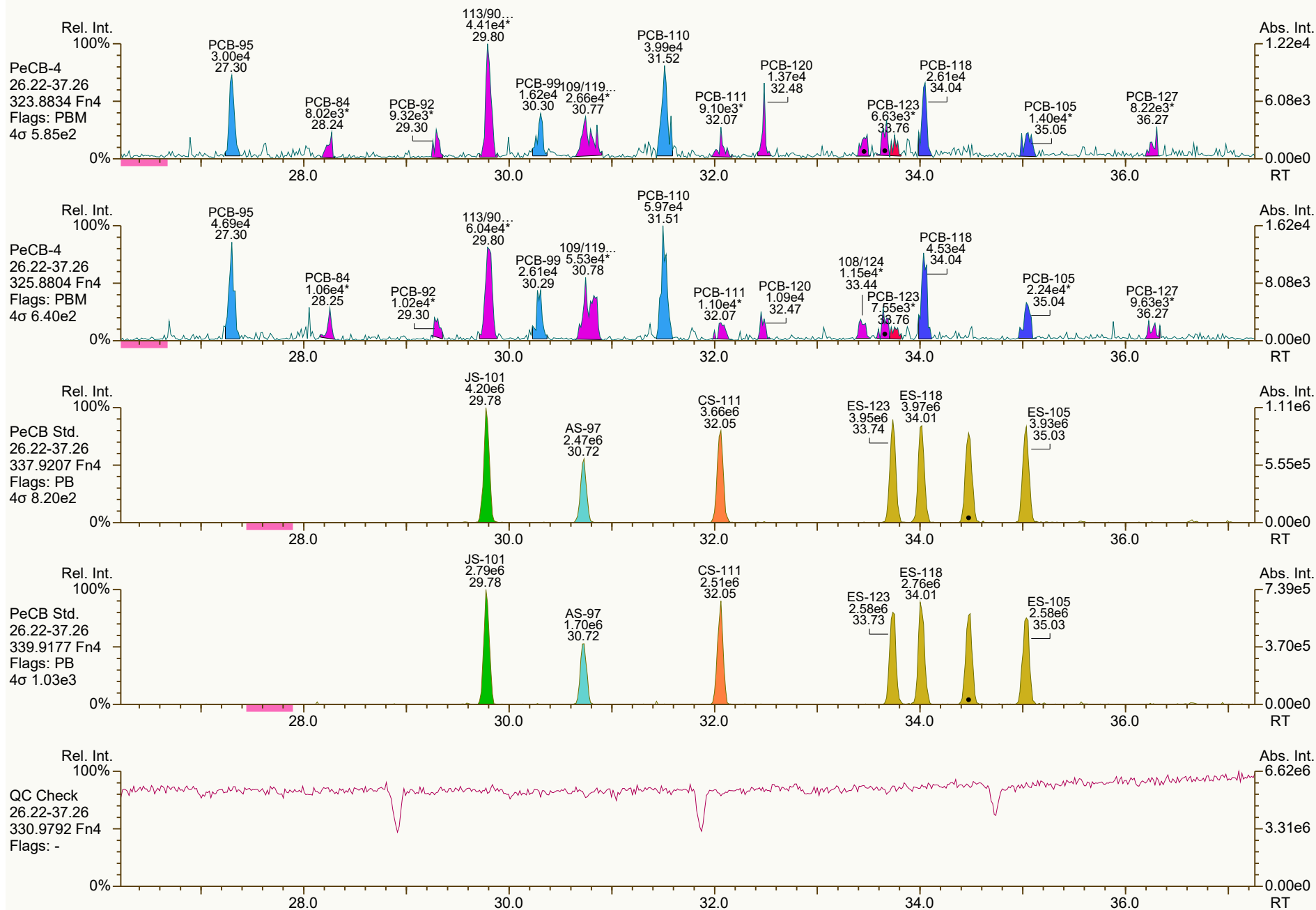
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 0245, 0906 scc: 634-357

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 10 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



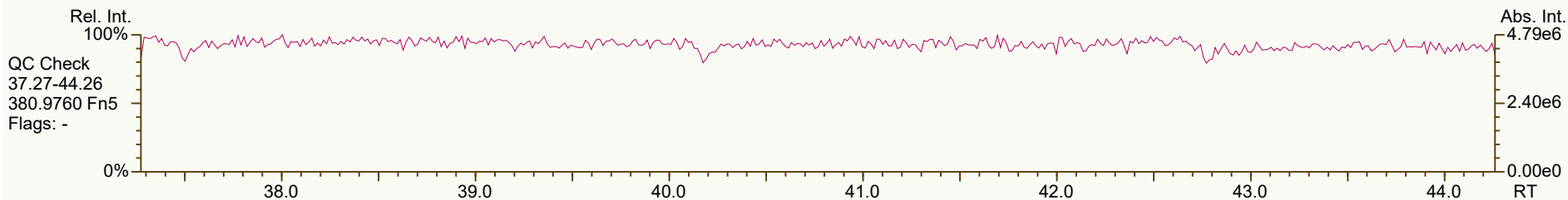
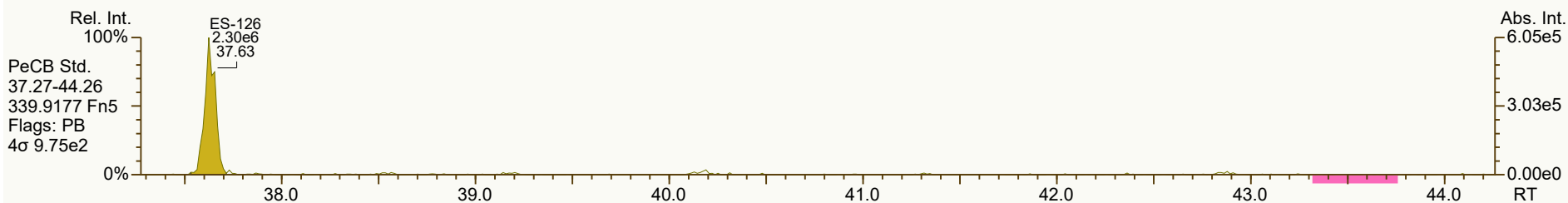
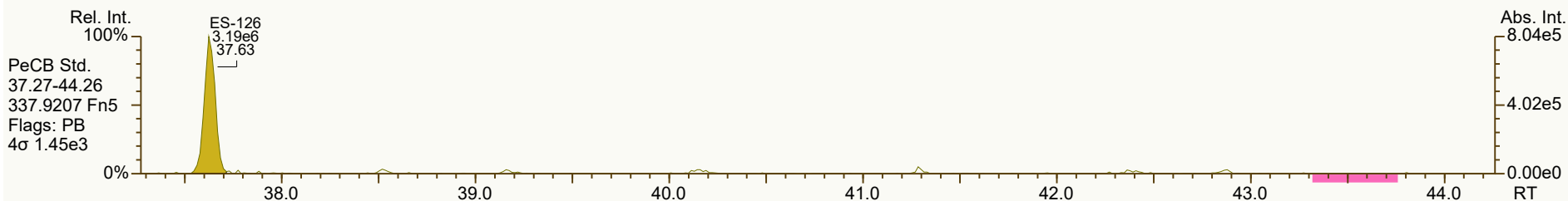
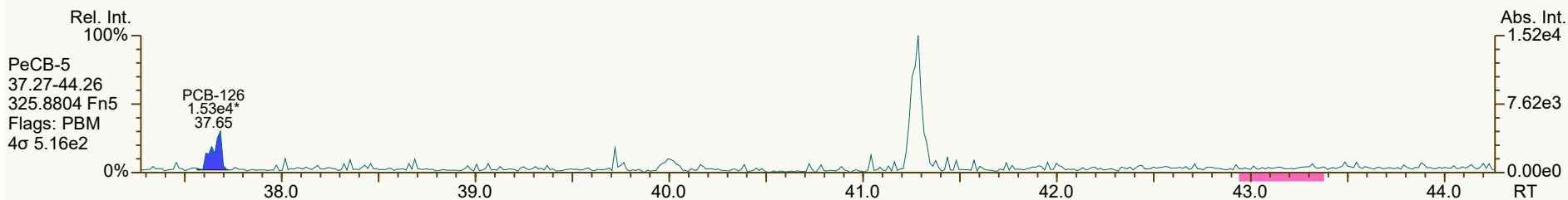
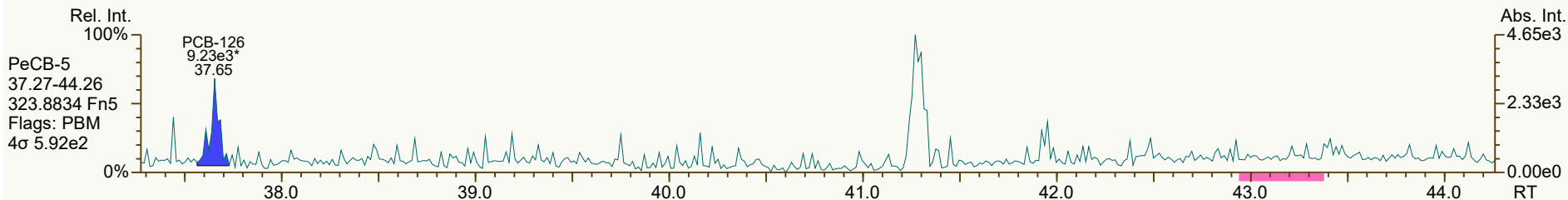
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4843, 2140 scc: 634-357

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 11 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



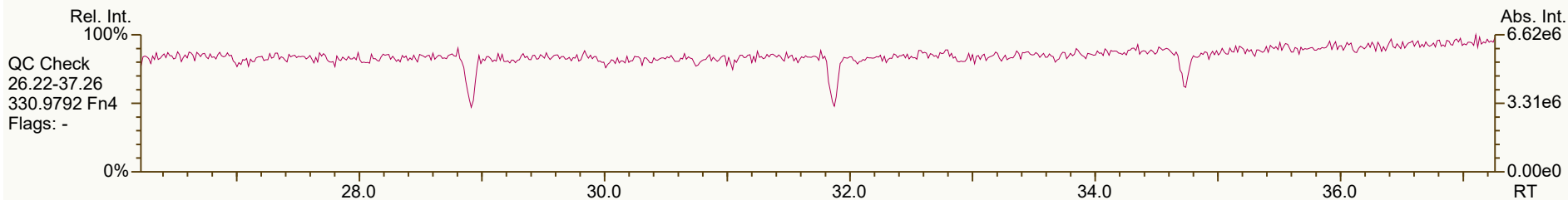
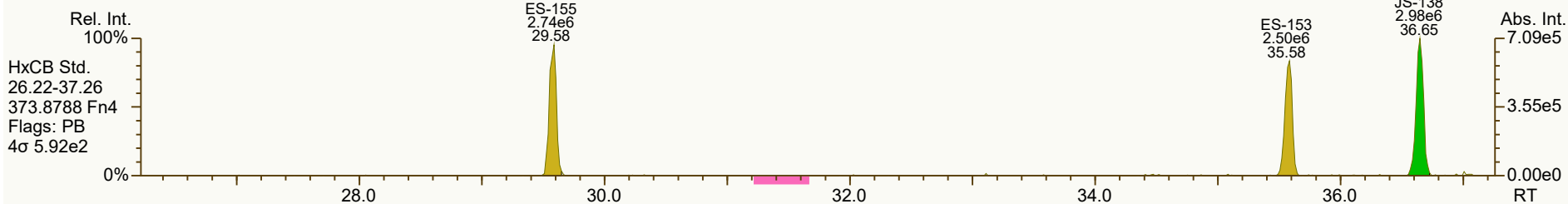
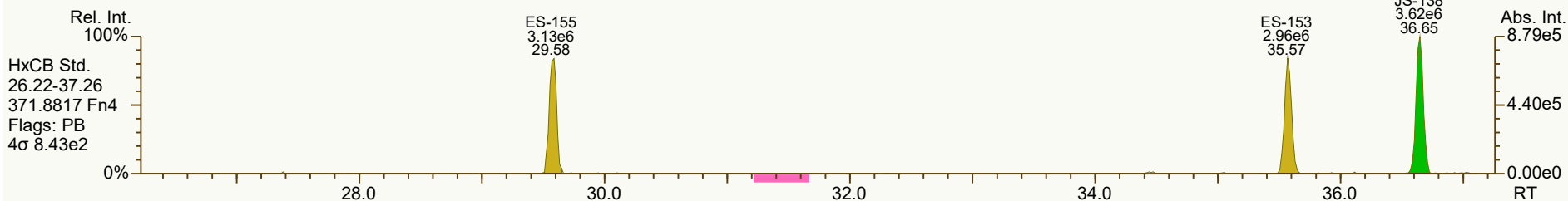
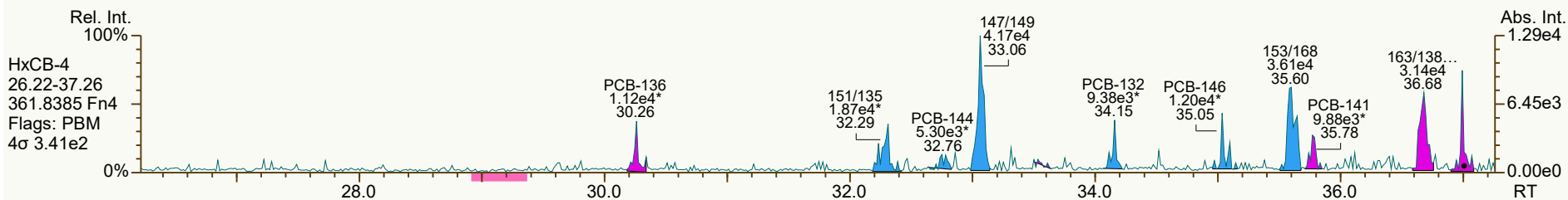
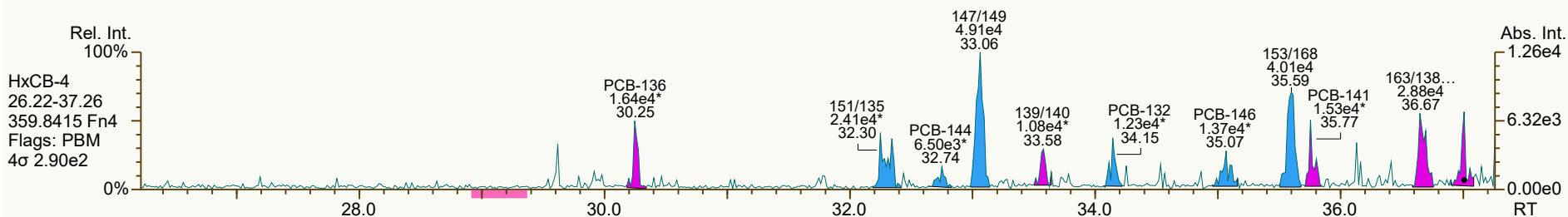
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 5632, 6512 scc: 634-357

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 12 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



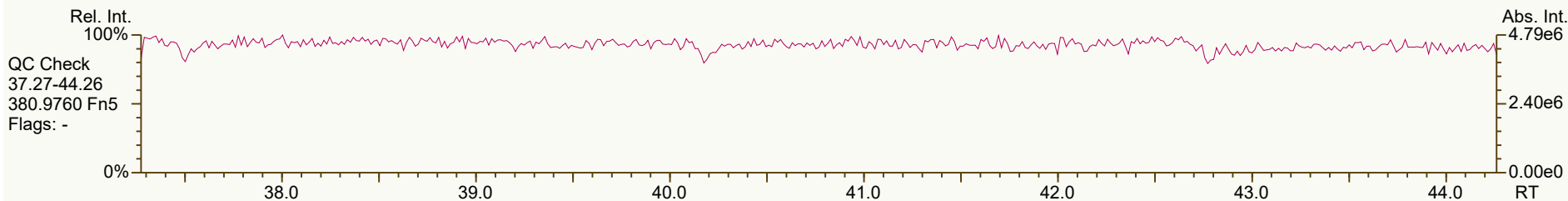
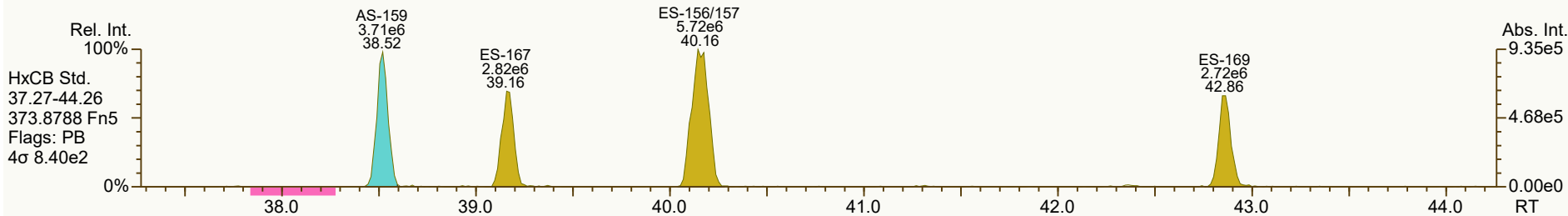
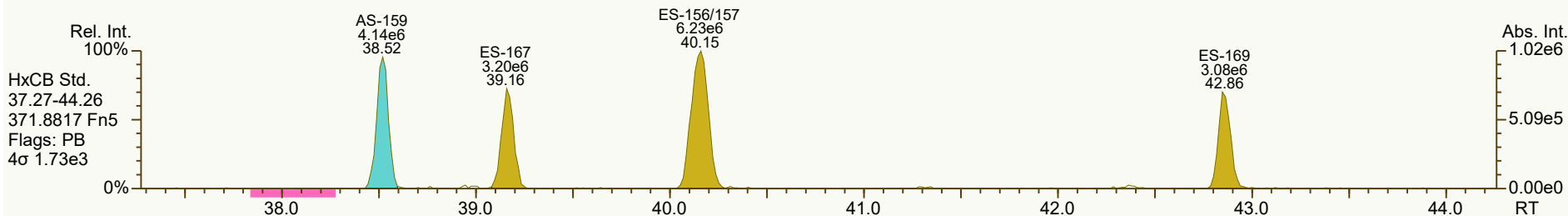
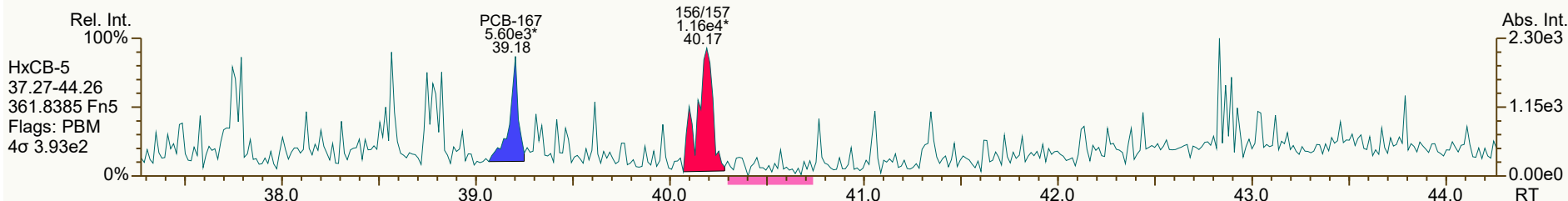
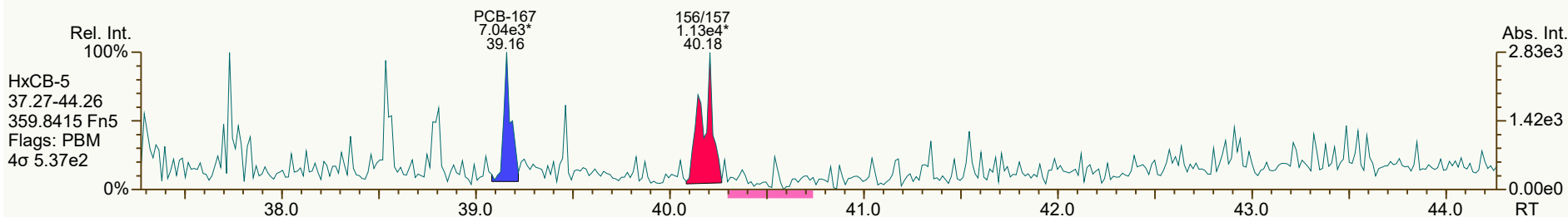
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4209, 3802 scc: 634-357

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 13 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 14 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



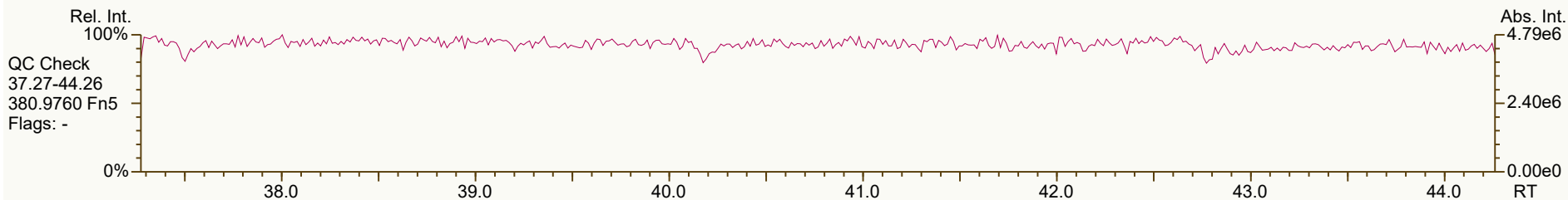
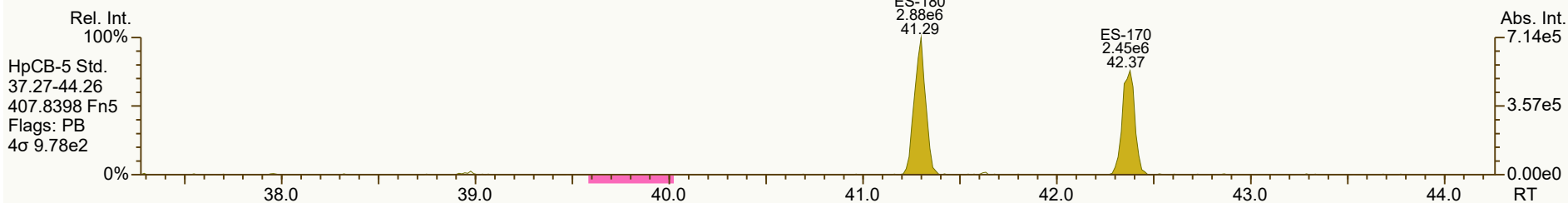
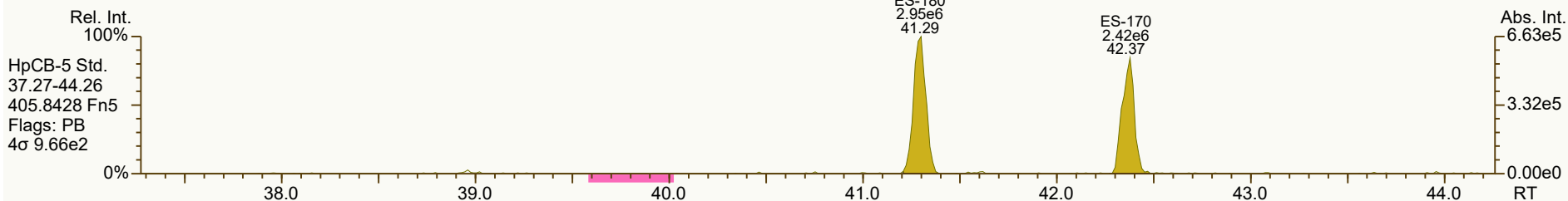
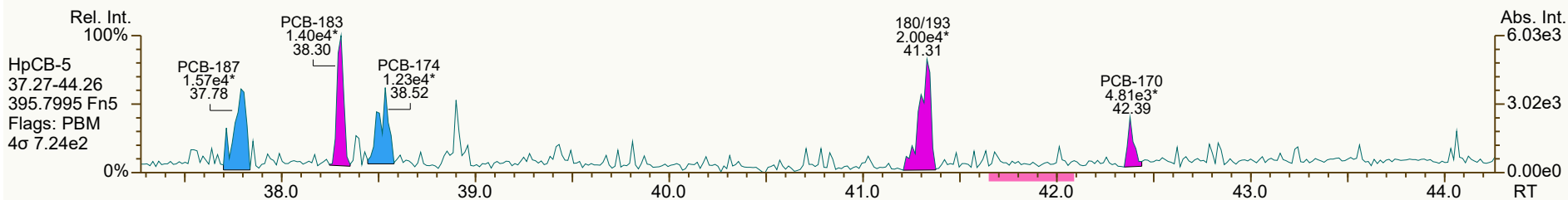
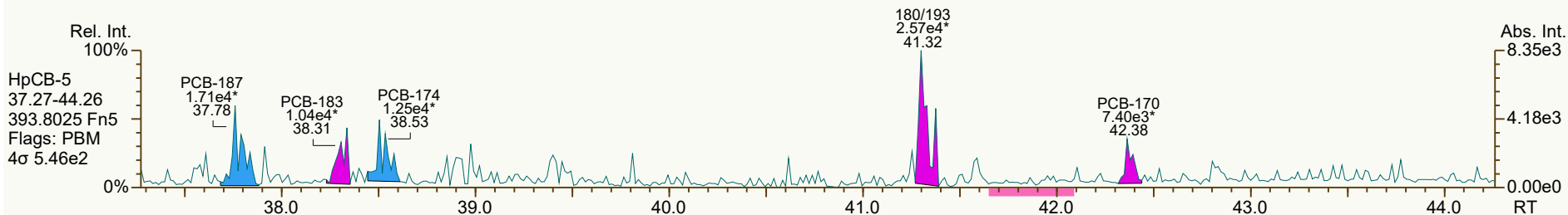
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 5146, 5575 scc: 634-357

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 15 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



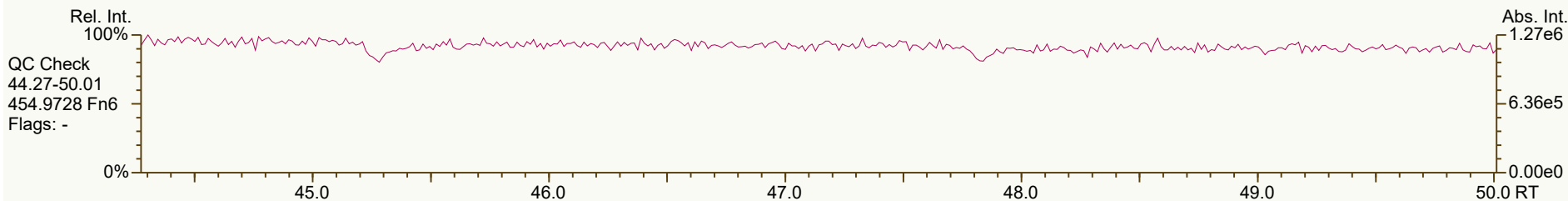
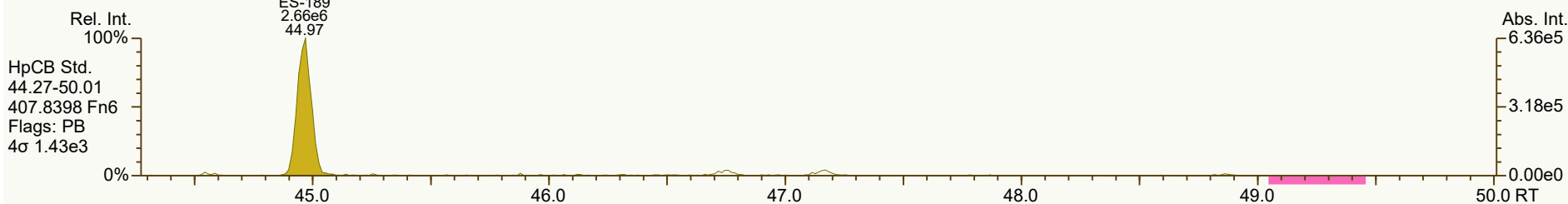
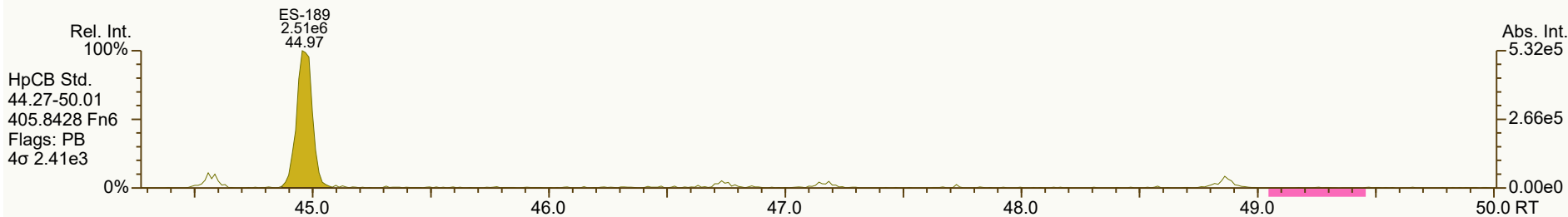
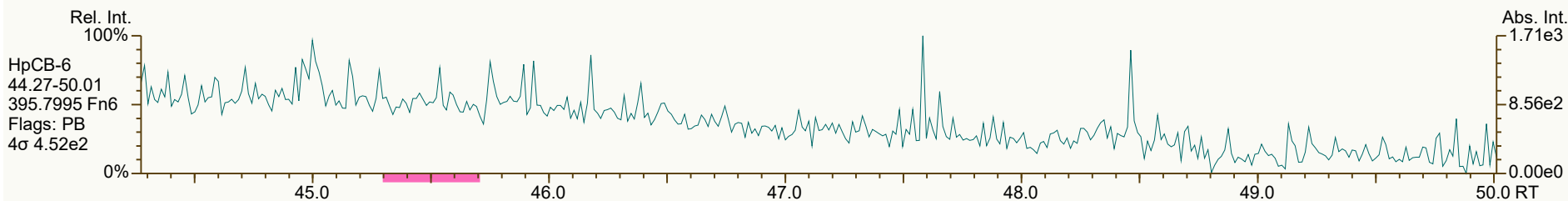
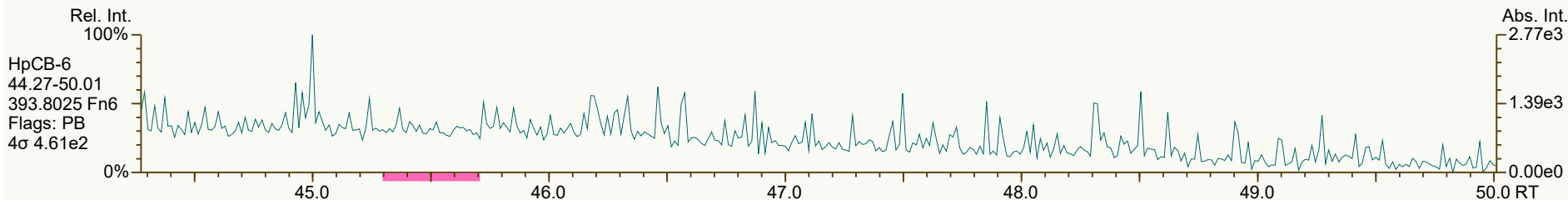
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 16 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2170, 5244 scc: 634-357

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 17 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



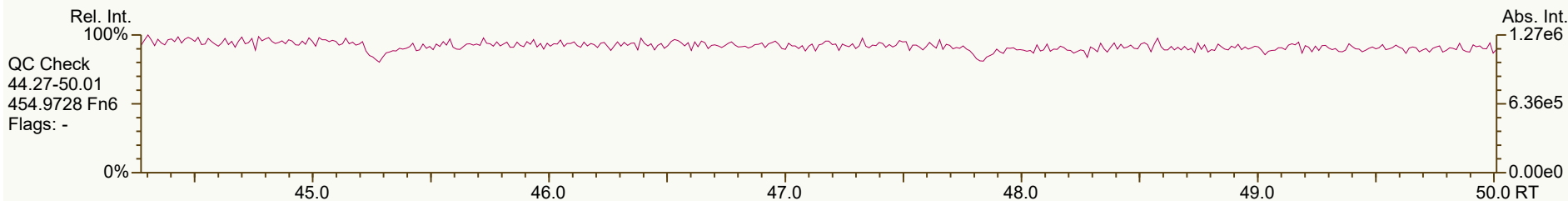
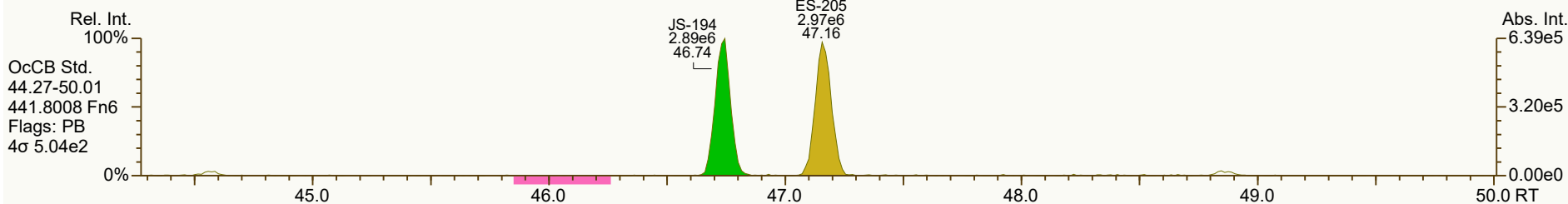
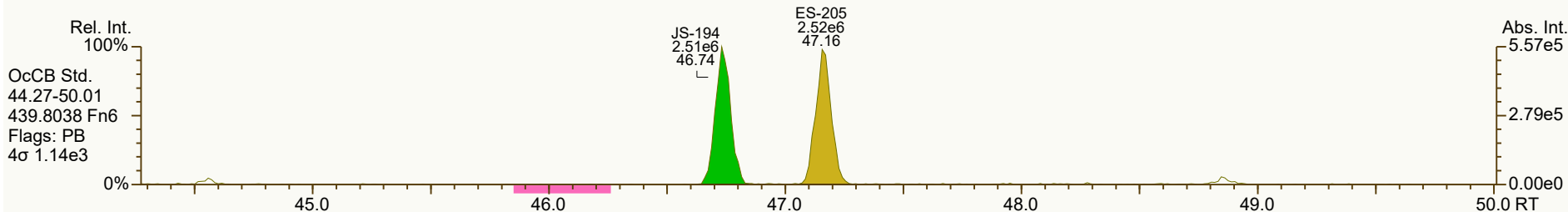
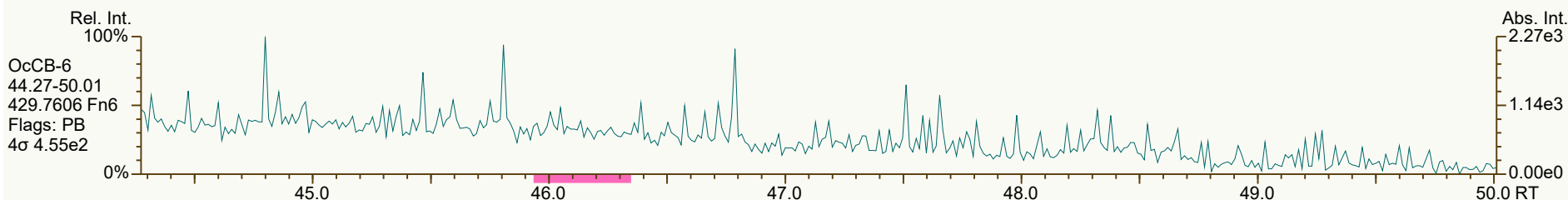
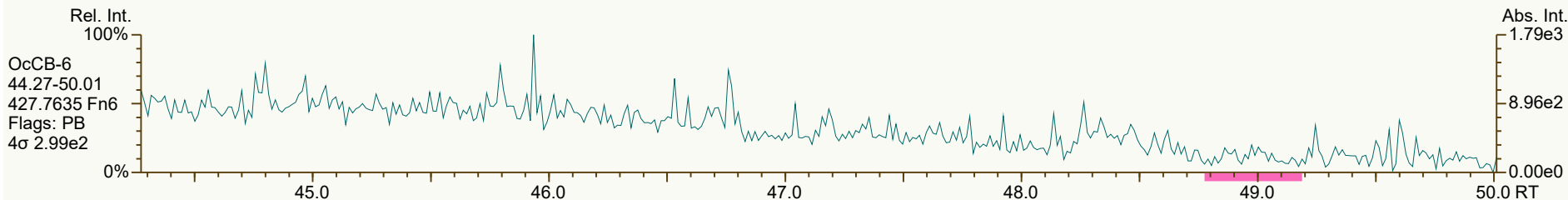
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6010, 6800 scc: 634-357

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 18 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



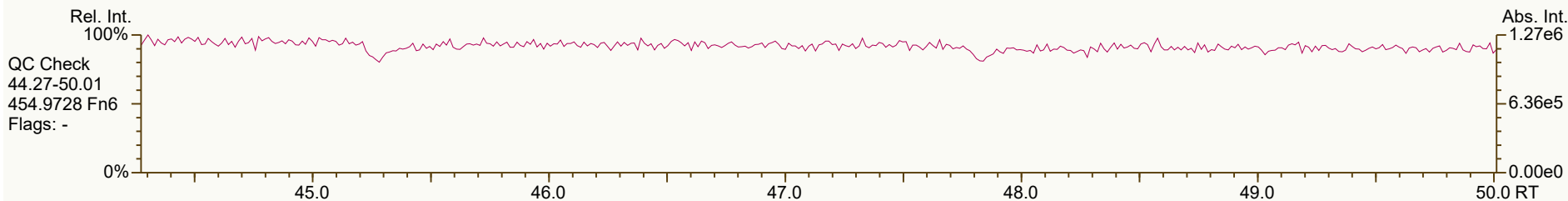
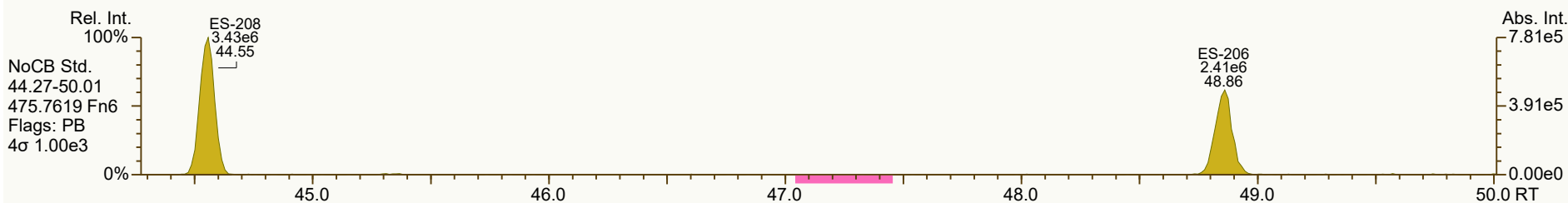
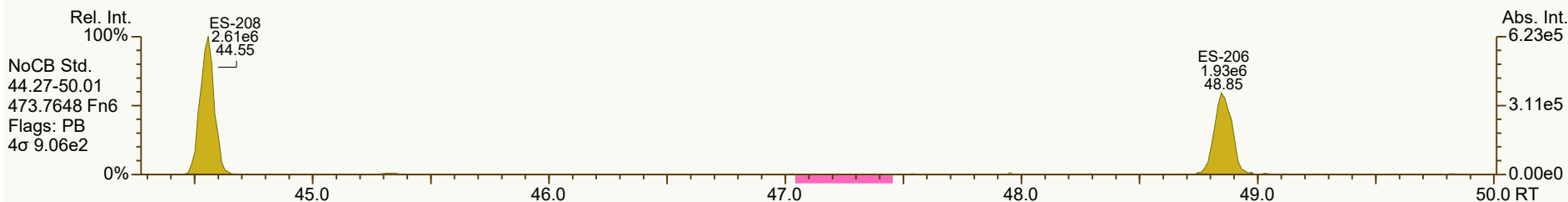
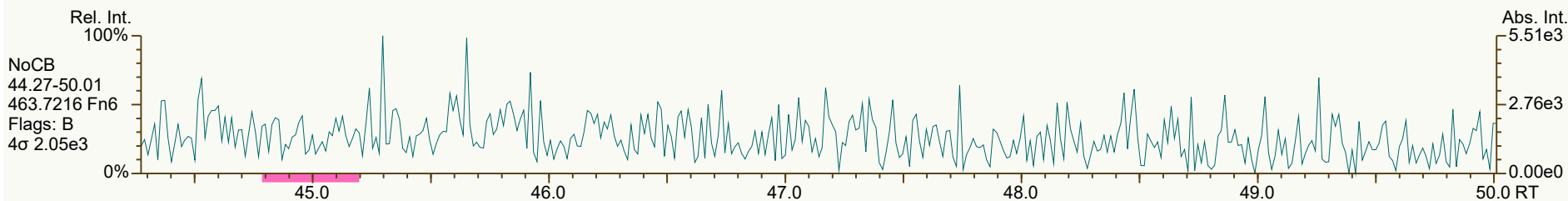
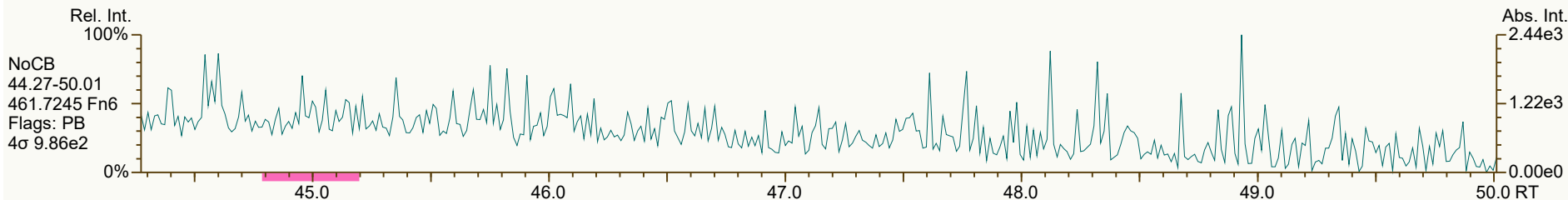
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 0514, 2695 scc: 634-357

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 19 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



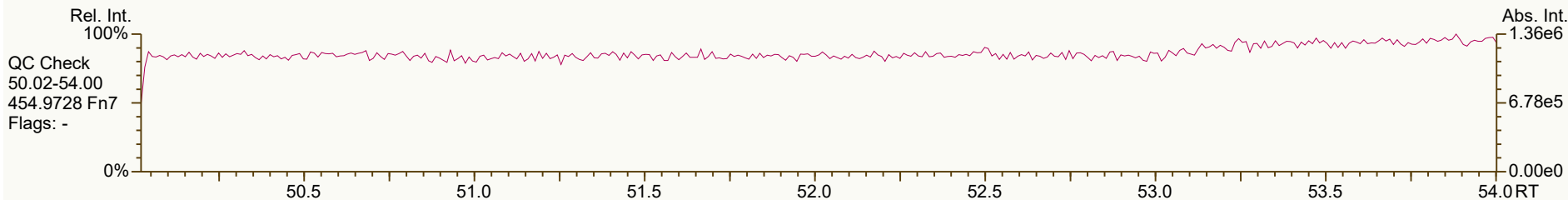
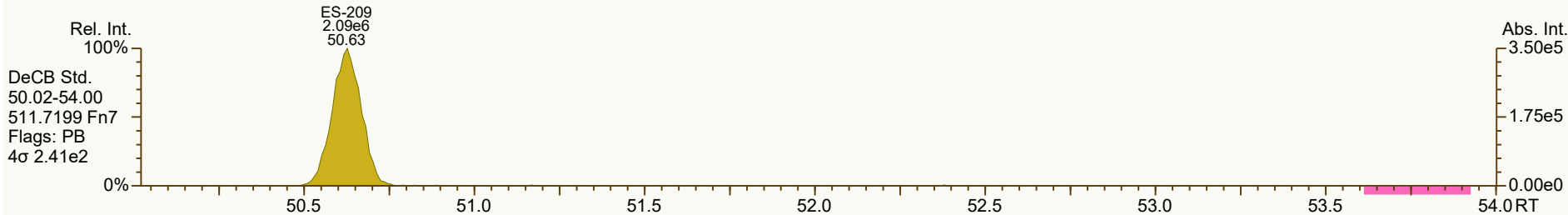
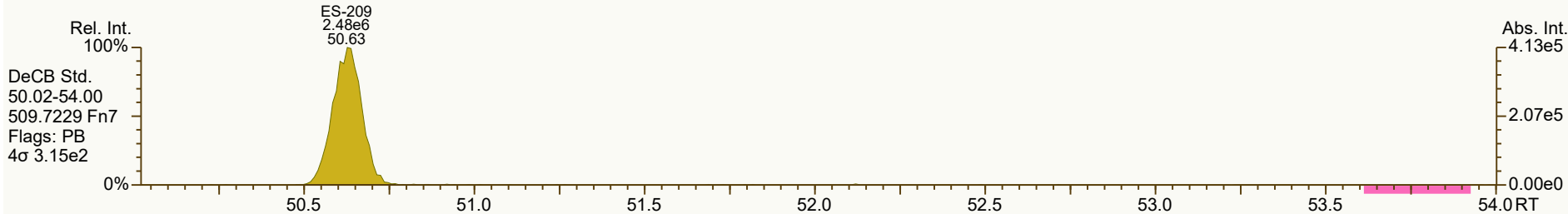
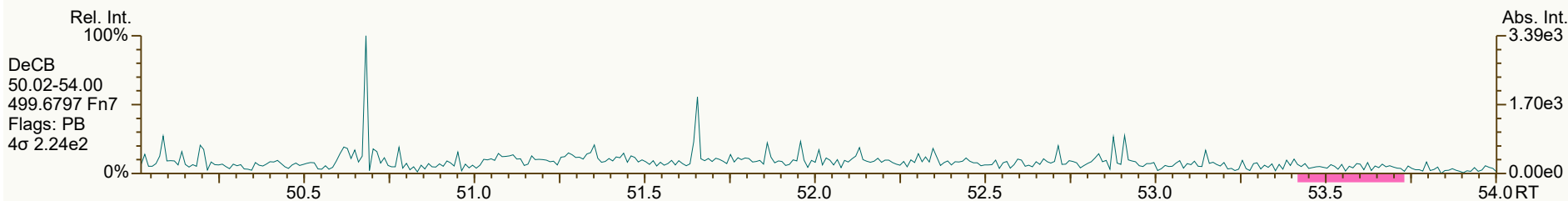
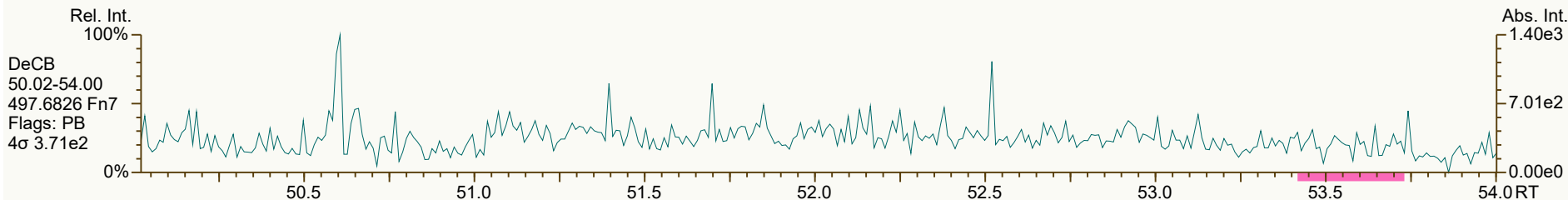
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4237, 2446 scc: 634-357

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:47 Printed: 20-Sep-2024 11:01 Page 20 of 21

SGS ID: MB1_21382_PCB_SDS
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 69

Acq: 17-Sep-2024 17:58:55
User: RAB Datafile: 240917S08



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\MB1_21382_PCB_SDS.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6798, 8026 scc: 634-357

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 15:40 (PSW) Printed: 20-Sep-2024 11:01 Page 21 of 21

Lab ID: B9770_21382_PCB_001

ACQ: 17-Sep-2024 21:03:27 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#1 Mill Off

UTP: 20-Sep-2024 10:52:51 PSW

J-level: 20 pg Split: 2

Checkcode: 125-978-HKP/C

Datafile: 240917S11

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------|--------------|--------|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-77 33'44'-TeCB | 32.10 | | 1.0006 | 1.0006 | 0 | 1.43E+05 | 0.81 | 1.45 | 65.2 | 4.27E+03 | 18.9 |
| PCB-81 344'5'-TeCB | ND | | 1.0005 | | | | | 1.46 | ND | 4.27E+03 | 18.9 |
| PCB-105 233'44'-PeCB | 35.06 | B EMPC | 1.0007 | 1.0005 | -0.4 | 1.87E+05 | 1.11 | 1.18 | 100 | 2.99E+03 | 18.7 |
| PCB-114 2344'5'-PeCB | ND | | 1.0007 | | | | | 1.14 | ND | 2.99E+03 | 16.6 |
| PCB-118 23'44'5'-PeCB | 34.05 | B | 1.0007 | 1.0008 | +0.2 | 5.51E+05 | 0.62 | 1.18 | 297 | 2.99E+03 | 17.2 |
| PCB-123 23'44'5'-PeCB | ND | | 1.0006 | | | | | 1.19 | ND | 2.99E+03 | 17.2 |
| PCB-126 33'44'5'-PeCB | ND | | 1.0005 | | | | | 1.35 | ND | 1.91E+03 | 12.1 |
| PCB-156/157 ...-HxCB | 40.17 | B C | 1.0005 | 1.0002 | -0.7 | 8.77E+04 | 1.27 | 1.23 | 56.6 | 1.45E+03 | 14.1 |
| PCB-167 23'44'55'-HxCB | 39.19 | B EMPC | 1.0005 | 1.0004 | -0.2 | 4.19E+04 | 1.63 | 1.22 | 22.8 | 1.45E+03 | 8.22 |
| PCB-169 33'44'55'-HxCB | ND | | 1.0005 | | | | | 1.23 | ND | 1.45E+03 | 9.57 |
| PCB-189 233'44'55'-HpCB | 44.99 | J EMPC | 1.0004 | 1.0004 | 0 | 2.89E+04 | 1.21 | 1.31 | 14.9 | 1.28E+03 | 7.58 |
| PCB-209 DeCB | 50.67 | EMPC | 1.0005 | 1.0005 | 0 | 8.32E+04 | 0.98 | 1.08 | 66.7 | 5.03E+02 | 6.02 |
| | | | | | | | | | | 20% | 145% |
| ES PCB-1 | 11.53 | | 0.7229 | 0.7221 | -0.6 | 2.10E+06 | 2.48 | 1.09 | 27 % | 5% | 145% |
| ES PCB-3 | 13.80 | | 0.8630 | 0.8641 | +0.9 | 3.15E+06 | 2.00 | 1.06 | 41.5 % | 5% | 145% |
| ES PCB-4 | 14.26 | | 0.8788 | 0.8925 | +11.7 | 1.07E+06 | 1.52 | 0.52 | 28.9 % | 5% | 145% |
| ES PCB-15 | 19.60 | | 1.2319 | 1.2272 | -5.5 | 4.99E+06 | 1.47 | 1.11 | 62.7 % | 5% | 145% |
| ES PCB-19 | 17.05 | | 1.0691 | 1.0675 | -1.6 | 3.09E+06 | 1.06 | 0.54 | 79.9 % | 5% | 145% |
| ES PCB-37 | 25.81 | | 1.0809 | 1.0804 | -0.8 | 6.09E+06 | 0.98 | 1.71 | 48.6 % | 5% | 145% |
| ES PCB-54 | 19.90 | | 0.8306 | 0.8330 | +2.9 | 3.15E+06 | 0.77 | 0.78 | 55.2 % | 5% | 145% |
| ES PCB-77 | 32.08 | | 1.3442 | 1.3429 | -2.5 | 6.06E+06 | 0.73 | 1.53 | 54.1 % | 10% | 145% |
| ES PCB-81 | 31.60 | | 1.3240 | 1.3228 | -2.3 | 6.36E+06 | 0.69 | 1.55 | 55.8 % | 10% | 145% |
| ES PCB-104 | 24.73 | | 0.8294 | 0.8297 | +0.4 | 3.65E+06 | 1.74 | 0.74 | 76.3 % | 10% | 145% |
| ES PCB-105 | 35.04 | | 1.1761 | 1.1758 | -0.6 | 6.31E+06 | 1.48 | 1.31 | 75 % | 10% | 145% |
| ES PCB-114 | 34.48 | | 1.1575 | 1.1572 | -0.6 | 6.27E+06 | 1.43 | 1.34 | 72.5 % | 10% | 145% |
| ES PCB-118 | 34.02 | | 1.1420 | 1.1417 | -0.6 | 6.27E+06 | 1.59 | 1.35 | 72 % | 10% | 145% |
| ES PCB-123 | 33.75 | | 1.1327 | 1.1324 | -0.6 | 6.11E+06 | 1.56 | 1.29 | 73.6 % | 10% | 145% |
| ES PCB-126 | 37.64 | | 1.2635 | 1.2631 | -0.9 | 5.27E+06 | 1.30 | 1.59 | 51.3 % | 10% | 145% |
| ES PCB-153 | 35.58 | | 0.9707 | 0.9708 | +0.2 | 5.53E+06 | 1.16 | 1.10 | 77.5 % | 10% | 145% |
| ES PCB-155 | 29.59 | | 0.8072 | 0.8074 | +0.4 | 5.97E+06 | 1.23 | 1.38 | 66.9 % | 10% | 145% |
| ES PCB-156/157 | 40.16 | C | 1.0958 | 1.0958 | 0 | 1.01E+07 | 1.22 | 1.62 | 47.9 % | 10% | 145% |
| ES PCB-167 | 39.17 | | 1.0687 | 1.0687 | 0 | 6.04E+06 | 1.09 | 1.70 | 54.7 % | 10% | 145% |
| ES PCB-169 | 42.87 | | 1.1697 | 1.1697 | 0 | 5.37E+06 | 1.08 | 1.55 | 53.3 % | 10% | 145% |
| ES PCB-170 | 42.38 | | 0.9066 | 0.9065 | -0.3 | 4.85E+06 | 0.99 | 1.06 | 88.7 % | 10% | 145% |
| ES PCB-180 | 41.30 | | 0.8835 | 0.8835 | 0 | 5.33E+06 | 1.06 | 1.30 | 79.3 % | 10% | 145% |
| ES PCB-188 | 34.45 | | 0.9398 | 0.9398 | 0 | 4.06E+06 | 1.08 | 0.63 | 100 % | 10% | 145% |
| ES PCB-189 | 44.97 | | 0.9621 | 0.9621 | 0 | 5.93E+06 | 0.97 | 1.71 | 67.2 % | 10% | 145% |
| ES PCB-202 | 38.97 | | 1.0632 | 1.0632 | 0 | 5.03E+06 | 0.90 | 0.96 | 81 % | 10% | 145% |
| ES PCB-205 | 47.17 | | 1.0091 | 1.0091 | 0 | 5.30E+06 | 0.93 | 1.23 | 83.1 % | 10% | 145% |
| ES PCB-206 | 48.87 | | 1.0453 | 1.0454 | +0.3 | 4.09E+06 | 0.79 | 0.84 | 94.2 % | 10% | 145% |

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------|------------------|----|-------------------|-------------------|-----------------|---------------------|-----------------|-----------------|-------------------|-------------------|-----------------|
| | | | | | | | | | | 20% | 145% |
| ES PCB-208 | 44.56 | | 0.9533 | 0.9533 | 0 | 5.79E+06 | 0.78 | 1.25 | 89.5 % | 10% | 145% |
| ES PCB-209 | 50.64 | | 1.0832 | 1.0833 | +0.3 | 4.64E+06 | 1.19 | 0.94 | 95.4 % | 10% | 145% |
| | | | | | | | | | | 70% | 130% |
| SS PCB-28 | 22.30 | | 0.9327 | 0.9332 | +0.7 | 5.00E+06 | 0.95 | 1.01 | 81 % | 5% | 145% |
| SS PCB-111 | 32.06 | | 1.0762 | 1.0760 | -0.4 | 5.55E+06 | 1.48 | 0.97 | 93.8 % | 10% | 145% |
| SS PCB-178 | 37.02 | | 1.0098 | 1.0100 | +0.4 | 3.11E+06 | 1.02 | 0.74 | 104 % | 10% | 145% |
| ES PCB-20 | 22.30 | | 0.9327 | 0.9332 | +0.7 | 5.00E+06 | 0.95 | 1.73 | 89.3 % | 5% | 145% |
| ES PCB-111 | 32.06 | | 1.0762 | 1.0760 | -0.4 | 5.55E+06 | 1.48 | 1.25 | 69 % | 10% | 145% |
| ES PCB-178 | 37.02 | | 1.0098 | 1.0100 | +0.4 | 3.11E+06 | 1.02 | 0.46 | 104 % | 10% | 145% |

| | | | | | | | | | | | |
|------------|-------|--|--|--|--|----------|------|--|--|--|--|
| JS PCB-9 | 15.97 | | | | | 7.16E+06 | 1.53 | | | | |
| JS PCB-52 | 23.89 | | | | | 7.35E+06 | 0.80 | | | | |
| JS PCB-101 | 29.80 | | | | | 6.44E+06 | 1.49 | | | | |
| JS PCB-138 | 36.65 | | | | | 6.48E+06 | 1.28 | | | | |
| JS PCB-194 | 46.75 | | | | | 5.17E+06 | 0.84 | | | | |

| | Totals | NON-EMPC | EMPC | DL |
|--|----------|-----------|-----------|------|
| | Mono-CB | 2,350,000 | 2,350,000 | 487 |
| | Di-CB | 146,000 | 146,000 | 41.6 |
| | Tri-CB | 23,100 | 23,100 | 26.5 |
| | Tetra-CB | 11,900 | 12,100 | 17.1 |
| | Penta-CB | 3,550 | 10,600 | 14.9 |
| | Hexa-CB | 8,470 | 8,840 | 9.05 |
| | Hepta-CB | 4,450 | 4,630 | 10.8 |
| | Octa-CB | 542 | 795 | 5.35 |
| | Nona-CB | 91.6 | 91.6 | 28.1 |

Lab ID: B9770_21382_PCB_001

ACQ: 17-Sep-2024 21:03:27 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#1 Mill Off

UTP: 20-Sep-2024 10:52:51 PSW

J-level: 20 pg Split: 2

Checkcode: 125-978-HKP/C

Datafile: 240917S11

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-----------|------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-1 2-MoCB | 11.54 | E | 1.0012 | 1.0009 | -0.2 | 9.31E+08 | 3.15 | 1.47 | 1,200,000 | 3.08E+04 | 526 |
| PCB-2 3-MoCB | 13.64 | E | 0.9878 | 0.9881 | +0.2 | 8.52E+08 | 3.23 | 1.32 | 819,000 | 3.08E+04 | 493 |
| PCB-3 4-MoCB | 13.81 | E | 1.0010 | 1.0008 | -0.2 | 3.80E+08 | 3.18 | 1.45 | 331,000 | 3.08E+04 | 448 |
| PCB-4 22'-DiCB | 14.26 | | 1.0012 | 1.0006 | -0.5 | 4.11E+06 | 1.49 | 1.30 | 11,800 | 1.94E+03 | 22.5 |
| PCB-10 26-DiCB | 14.34 | | 1.0132 | 1.0060 | -6.2 | 5.50E+06 | 1.52 | 1.56 | 13,100 | 1.94E+03 | 18.6 |
| PCB-9 25-DiCB | 15.99 | | 1.0010 | 1.0009 | -0.1 | 1.48E+07 | 1.51 | 1.18 | 10,100 | 9.87E+03 | 67.4 |
| PCB-7 24-DiCB | 16.12 | | 1.0110 | 1.0095 | -1.5 | 1.60E+07 | 1.49 | 1.04 | 12,400 | 9.87E+03 | 76.7 |
| PCB-6 23'-DiCB | 16.39 | | 1.0257 | 1.0263 | +0.6 | 2.65E+07 | 1.49 | 1.20 | 17,700 | 9.87E+03 | 66.1 |
| PCB-5 23-DiCB | 16.67 | | 1.0444 | 1.0437 | -0.7 | 1.65E+07 | 1.51 | 0.99 | 13,400 | 9.87E+03 | 80.6 |
| PCB-8 24'-DiCB | 16.78 | | 1.0517 | 1.0504 | -1.3 | 1.50E+07 | 1.51 | 1.27 | 9,450 | 9.87E+03 | 62.6 |
| PCB-14 35-DiCB | 18.27 | | 0.9312 | 0.9318 | +0.7 | 2.06E+07 | 1.50 | 1.04 | 15,900 | 9.87E+03 | 76.7 |
| PCB-11 33'-DiCB | 19.05 | | 0.9713 | 0.9717 | +0.5 | 2.01E+07 | 1.50 | 1.12 | 14,300 | 9.87E+03 | 70.8 |
| PCB-13/12 34'/34-DiCB | 19.34 | C | 0.9860 | 0.9867 | +0.8 | 3.40E+07 | 1.50 | 1.01 | 26,900 | 9.87E+03 | 78.6 |
| PCB-15 44'-DiCB | 19.62 | | 1.0008 | 1.0010 | +0.2 | 2.26E+06 | 1.54 | 1.31 | 1,380 | 9.87E+03 | 60.7 |
| PCB-19 22'6-TrCB | 17.07 | | 1.0010 | 1.0010 | 0 | 1.15E+06 | 1.02 | 1.16 | 1,280 | 2.95E+03 | 26.3 |
| PCB-30/18 246/22'5-TrCB | 18.77 | C | 1.1015 | 1.1008 | -0.8 | 4.73E+06 | 1.05 | 1.43 | 4,290 | 2.95E+03 | 21.4 |
| PCB-17 22'4-TrCB | 19.15 | | 1.1254 | 1.1230 | -2.8 | 1.96E+06 | 1.06 | 0.99 | 2,560 | 2.95E+03 | 30.8 |
| PCB-27 23'6-TrCB | 19.35 | | 1.1371 | 1.1346 | -2.9 | 1.03E+06 | 1.00 | 1.42 | 938 | 2.95E+03 | 21.6 |
| PCB-24 236-TrCB | 19.47 | | 1.1444 | 1.1416 | -3.3 | 7.23E+05 | 0.97 | 1.43 | 657 | 2.95E+03 | 21.5 |
| PCB-16 22'3-TrCB | 19.57 | | 1.1508 | 1.1478 | -3.5 | 1.29E+06 | 1.03 | 0.94 | 1,790 | 2.95E+03 | 32.7 |
| PCB-32 24'6-TrCB | 20.04 | | 1.1782 | 1.1755 | -3.2 | 1.06E+06 | 1.01 | 1.55 | 886 | 2.95E+03 | 19.7 |
| PCB-34 23'5'-TrCB | 21.15 | | 0.8181 | 0.8193 | +1.5 | 1.17E+06 | 0.97 | 1.17 | 660 | 5.63E+03 | 32.7 |
| PCB-23 235-TrCB | 21.28 | | 0.8235 | 0.8246 | +1.4 | 1.25E+06 | 1.00 | 1.16 | 712 | 5.63E+03 | 33 |
| PCB-26/29 23'5/245-TrCB | 21.57 | C | 0.8347 | 0.8356 | +1.2 | 2.79E+06 | 1.03 | 1.19 | 1,540 | 5.63E+03 | 32.2 |
| PCB-25 23'4-TrCB | 21.77 | | 0.8426 | 0.8435 | +1.2 | 1.27E+06 | 1.04 | 1.43 | 586 | 5.63E+03 | 26.8 |
| PCB-31 24'5-TrCB | 22.05 | | 0.8534 | 0.8543 | +1.2 | 1.87E+06 | 1.07 | 1.37 | 897 | 5.63E+03 | 27.9 |
| PCB-28/20 244'/233'-TrCB | 22.33 | C | 0.8642 | 0.8651 | +1.2 | 2.61E+06 | 1.08 | 1.28 | 1,340 | 5.63E+03 | 29.8 |
| PCB-21/33 234/23'4'-TrCB | 22.52 | C | 0.8710 | 0.8724 | +1.9 | 3.09E+06 | 1.07 | 1.23 | 1,650 | 5.63E+03 | 31 |
| PCB-22 234'-TrCB | 22.88 | | 0.8859 | 0.8865 | +0.8 | 1.01E+06 | 0.99 | 1.33 | 497 | 5.63E+03 | 28.7 |
| PCB-36 33'5-TrCB | 24.23 | | 0.9383 | 0.9388 | +0.7 | 1.11E+06 | 1.10 | 1.38 | 531 | 5.63E+03 | 27.7 |
| PCB-39 34'5-TrCB | 24.55 | | 0.9508 | 0.9510 | +0.3 | 5.89E+05 | 1.05 | 1.26 | 307 | 5.63E+03 | 30.3 |
| PCB-38 345-TrCB | 25.06 | | 0.9709 | 0.9709 | 0 | 1.68E+06 | 1.13 | 1.27 | 867 | 5.63E+03 | 30.1 |
| PCB-35 33'4-TrCB | 25.47 | | 0.9867 | 0.9867 | 0 | 1.38E+06 | 1.11 | 1.19 | 760 | 5.63E+03 | 32 |
| PCB-37 344'-TrCB | 25.83 | | 1.0007 | 1.0007 | 0 | 8.37E+05 | 0.95 | 1.43 | 384 | 5.63E+03 | 26.7 |
| PCB-54 22'66'-TeCB | 19.92 | EMPC | 1.0010 | 1.0011 | +0.1 | 9.22E+04 | 0.91 | 1.52 | 77 | 2.52E+03 | 18.5 |
| PCB-50/53 22'46/22'56'-TeCB | 21.82 | C | 0.9128 | 0.9132 | +0.5 | 8.87E+05 | 0.75 | 0.86 | 648 | 2.09E+03 | 15.6 |
| PCB-45 22'36'-TeCB | 22.40 | | 0.9377 | 0.9378 | +0.1 | 3.65E+05 | 0.75 | 0.72 | 318 | 2.09E+03 | 18.6 |
| PCB-51 22'46'-TeCB | 22.46 | | 0.9403 | 0.9402 | -0.1 | 5.70E+05 | 0.77 | 0.87 | 413 | 2.09E+03 | 15.5 |
| PCB-46 22'36'-TeCB | 22.70 | | 0.9496 | 0.9500 | +0.5 | 2.47E+05 | 0.73 | 0.68 | 227 | 2.09E+03 | 19.7 |
| PCB-52 22'55'-TeCB | 23.92 | | 1.0010 | 1.0010 | 0 | 7.58E+06 | 0.79 | 0.97 | 4,910 | 2.09E+03 | 13.9 |
| PCB-73 23'5'6'-TeCB | 24.04 | EMPC | 1.0061 | 1.0063 | +0.3 | 1.32E+05 | 0.94 | 1.19 | 69.9 | 2.09E+03 | 11.3 |

Lab ID: B9770_21382_PCB_001

ACQ: 17-Sep-2024 21:03:27 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#1 Mill Off

UTP: 20-Sep-2024 10:52:51 PSW

J-level: 20 pg Split: 2

Checkcode: 125-978-HKP/C

Datafile: 240917S11

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|---------------------------------|--------------|--------|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-43 22'35'-TeCB | 24.13 | | 1.0099 | 1.0100 | +0.1 | 1.22E+05 | 0.85 | 0.81 | 94.6 | 2.09E+03 | 16.6 |
| PCB-69/49 23'46/22'45'-TeCB | 24.34 | C | 1.0177 | 1.0186 | +1.3 | 1.29E+06 | 0.76 | 0.97 | 834 | 2.09E+03 | 13.9 |
| PCB-48 22'45'-TeCB | 24.59 | | 1.0295 | 1.0294 | -0.1 | 4.72E+05 | 0.77 | 0.83 | 359 | 2.09E+03 | 16.3 |
| PCB-44/47/65 ...-TeCB | 24.80 | C | 1.0386 | 1.0381 | -0.7 | 1.76E+06 | 0.75 | 0.94 | 1,170 | 2.09E+03 | 14.3 |
| PCB-59/62/75 ...-TeCB | 25.07 | C | 1.0499 | 1.0494 | -0.8 | 3.56E+05 | 0.84 | 1.09 | 206 | 2.09E+03 | 12.4 |
| PCB-42 22'34'-TeCB | 25.25 | | 1.0575 | 1.0571 | -0.6 | 3.41E+05 | 0.83 | 0.73 | 294 | 2.09E+03 | 18.4 |
| PCB-41 22'34'-TeCB | 25.58 | | 1.0713 | 1.0709 | -0.6 | 1.29E+05 | 0.85 | 0.63 | 128 | 2.09E+03 | 21.4 |
| PCB-71/40 23'4'6/22'33'-TeCB | 25.69 | C | 1.0755 | 1.0751 | -0.6 | 6.14E+05 | 0.77 | 0.92 | 421 | 2.09E+03 | 14.7 |
| PCB-64 234'6'-TeCB | 25.88 | | 1.0836 | 1.0832 | -0.6 | 4.69E+05 | 0.79 | 1.11 | 266 | 2.09E+03 | 12.1 |
| PCB-72 23'55'-TeCB | 26.59 | EMPC | 0.8404 | 0.8414 | +1.6 | 5.65E+04 | 1.14 | 1.20 | 29.7 | 4.27E+03 | 23 |
| PCB-68 23'45'-TeCB | 26.83 | | 0.8483 | 0.8489 | +1.0 | 3.39E+05 | 0.77 | 1.13 | 189 | 4.27E+03 | 24.4 |
| PCB-57 233'5'-TeCB | 27.19 | EMPC | 0.8601 | 0.8604 | +0.5 | 5.95E+04 | 0.59 | 1.14 | 32.8 | 4.27E+03 | 24.1 |
| PCB-58 233'5'-TeCB | 27.40 | J EMPC | 0.8668 | 0.8669 | +0.2 | 4.14E+04 | 1.11 | 1.31 | 19.9 | 4.27E+03 | 21 |
| PCB-67 23'45'-TeCB | 27.55 | B | 0.8713 | 0.8718 | +0.8 | 1.25E+05 | 0.83 | 1.32 | 59.7 | 4.27E+03 | 20.9 |
| PCB-63 234'5'-TeCB | 27.80 | EMPC | 0.8785 | 0.8797 | +2.0 | 4.23E+04 | 0.92 | 1.08 | 24.6 | 4.27E+03 | 25.4 |
| PCB-61/70/74/76 ...-TeCB | 28.08 | B C | 0.8878 | 0.8883 | +0.8 | 1.32E+06 | 0.73 | 1.18 | 708 | 4.27E+03 | 23.4 |
| PCB-66 23'44'-TeCB | 28.35 | B | 0.8967 | 0.8970 | +0.5 | 4.84E+05 | 0.84 | 1.23 | 247 | 4.27E+03 | 22.3 |
| PCB-55 233'4'-TeCB | 28.50 | | 0.9016 | 0.9017 | +0.2 | 3.98E+04 | 0.71 | 1.22 | 20.5 | 4.27E+03 | 22.6 |
| PCB-56 233'4'-TeCB | 28.94 | | 0.9155 | 0.9156 | +0.2 | 2.98E+05 | 0.74 | 1.20 | 156 | 4.27E+03 | 22.9 |
| PCB-60 2344'-TeCB | 29.13 | | 0.9214 | 0.9217 | +0.5 | 1.35E+05 | 0.88 | 1.04 | 82.1 | 4.27E+03 | 26.5 |
| PCB-80 33'55'-TeCB | ND | | 0.9309 | | | | | 1.32 | ND | 4.27E+03 | 20.8 |
| PCB-79 33'45'-TeCB | 30.75 | | 0.9732 | 0.9729 | -0.6 | 8.55E+04 | 0.80 | 1.45 | 37 | 4.27E+03 | 18.9 |
| PCB-78 33'45'-TeCB | 31.24 | J EMPC | 0.9884 | 0.9884 | 0 | 3.44E+04 | 1.03 | 1.18 | 18.3 | 4.27E+03 | 23.3 |
| PCB-104 22'466'-PeCB | 24.75 | | 1.0009 | 1.0011 | +0.3 | 6.61E+04 | 0.65 | 1.46 | 49.5 | 1.07E+03 | 7.53 |
| PCB-96 22'366'-PeCB | 25.09 | EMPC | 1.0147 | 1.0148 | +0.2 | 1.42E+05 | 0.52 | 1.19 | 131 | 1.07E+03 | 9.27 |
| PCB-103 22'45'6'-PeCB | 26.76 | EMPC | 0.8968 | 0.8981 | +2.1 | 6.51E+04 | 1.14 | 0.72 | 59.4 | 2.99E+03 | 28.5 |
| PCB-94 22'356'-PeCB | ND | | 0.9036 | | | | | 0.59 | ND | 2.99E+03 | 34.5 |
| PCB-95 22'35'6'-PeCB | 27.33 | EMPC | 0.9167 | 0.9171 | +0.7 | 2.21E+06 | 0.71 | 0.68 | 2,120 | 2.99E+03 | 30 |
| PCB-100/93 22'44'6/22'356'-PeCB | 27.45 | EMPC C | 0.9229 | 0.9213 | -2.6 | 8.80E+04 | 1.95 | 0.65 | 88.4 | 2.99E+03 | 31.4 |
| PCB-102 22'456'-PeCB | 27.65 | EMPC | 0.9269 | 0.9279 | +1.7 | 1.82E+05 | 1.33 | 0.85 | 140 | 2.99E+03 | 24 |
| PCB-98 22'34'6'-PeCB | ND | | 0.9292 | | | | | 0.72 | ND | 2.99E+03 | 28.4 |
| PCB-88 22'346'-PeCB | ND | | 0.9390 | | | | | 0.61 | ND | 2.99E+03 | 33.5 |
| PCB-91 22'34'6'-PeCB | 28.07 | | 0.9416 | 0.9420 | +0.7 | 2.94E+05 | 0.66 | 0.72 | 268 | 2.99E+03 | 28.5 |
| PCB-84 22'33'6'-PeCB | 28.27 | EMPC | 0.9486 | 0.9487 | +0.2 | 4.23E+05 | 0.78 | 0.57 | 488 | 2.99E+03 | 36 |
| PCB-89 22'346'-PeCB | 28.68 | | 0.9623 | 0.9625 | +0.3 | 2.61E+04 | 0.63 | 0.69 | 24.8 | 2.99E+03 | 29.6 |
| PCB-121 23'45'6'-PeCB | 28.99 | | 0.9725 | 0.9726 | +0.2 | 3.28E+04 | 0.67 | 1.05 | 20.4 | 2.99E+03 | 19.5 |
| PCB-92 22'355'-PeCB | 29.32 | | 0.9839 | 0.9839 | 0 | 2.99E+05 | 0.55 | 0.68 | 286 | 2.99E+03 | 29.8 |
| PCB-113/90/101 ...-PeCB | 29.81 | C | 0.9999 | 1.0004 | +0.9 | 2.26E+06 | 0.57 | 0.81 | 1,820 | 2.99E+03 | 25.1 |
| PCB-83 22'33'5'-PeCB | 30.26 | EMPC | 1.0148 | 1.0153 | +0.9 | 2.48E+06 | 0.46 | 0.59 | 2,750 | 2.99E+03 | 34.6 |
| PCB-99 22'44'5'-PeCB | ND | | 1.0174 | | | | | 0.94 | ND | 2.99E+03 | 21.6 |
| PCB-112 233'56'-PeCB | ND | | 1.0210 | | | | | 1.13 | ND | 2.99E+03 | 18.1 |

Lab ID: B9770_21382_PCB_001

ACQ: 17-Sep-2024 21:03:27 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#1 Mill Off

UTP: 20-Sep-2024 10:52:51 PSW

J-level: 20 pg Split: 2

Checkcode: 125-978-HKP/C

Datafile: 240917S11

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------------|--------------|--------|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-109/119/86/97/125...-PeCB | 30.79 | EMPC C | 1.0327 | 1.0330 | +0.6 | 1.54E+06 | 0.52 | 0.89 | 1,130 | 2.99E+03 | 22.9 |
| PCB-117 234'56-PeCB | 31.30 | | 1.0504 | 1.0502 | -0.4 | 3.23E+04 | 0.59 | 0.95 | 22.2 | 2.99E+03 | 21.5 |
| PCB-116/85 23456/22'344'-PeCB | 31.39 | C | 1.0533 | 1.0532 | -0.2 | 9.59E+04 | 0.69 | 0.84 | 74.7 | 2.99E+03 | 24.3 |
| PCB-110 233'4'6-PeCB | 31.52 | | 1.0579 | 1.0577 | -0.4 | 1.13E+06 | 0.64 | 1.12 | 657 | 2.99E+03 | 18.2 |
| PCB-115 2344'6-PeCB | ND | | 1.0600 | | | | | 1.11 | ND | 2.99E+03 | 18.4 |
| PCB-82 22'33'4-PeCB | 31.80 | EMPC | 1.0675 | 1.0671 | -0.8 | 6.10E+04 | 0.82 | 0.72 | 55.5 | 2.99E+03 | 28.4 |
| PCB-111 233'55'-PeCB | ND | | 1.0770 | | | | | 1.00 | ND | 2.99E+03 | 20.3 |
| PCB-120 23'455'-PeCB | ND | | 1.0902 | | | | | 1.22 | ND | 2.99E+03 | 16.8 |
| PCB-108/124 ...-PeCB | ND | C | 0.9915 | | | | | 1.03 | ND | 2.99E+03 | 19.9 |
| PCB-107 233'4'5-PeCB | 33.67 | B | 0.9975 | 0.9976 | +0.2 | 5.58E+04 | 0.62 | 1.08 | 33.7 | 2.99E+03 | 18.9 |
| PCB-106 233'45-PeCB | ND | | 1.0038 | | | | | 1.07 | ND | 2.99E+03 | 19.1 |
| PCB-122 233'4'5'-PeCB | ND | | 1.0096 | | | | | 0.82 | ND | 2.99E+03 | 23.3 |
| PCB-127 33'455'-PeCB | ND | | 1.0352 | | | | | 1.05 | ND | 2.99E+03 | 21.1 |
| PCB-155 22'44'66'-HxCB | 29.61 | | 1.0007 | 1.0007 | 0 | 2.36E+05 | 1.26 | 1.36 | 116 | 9.03E+02 | 4.31 |
| PCB-152 22'3566'-HxCB | 29.82 | J EMPC | 1.0075 | 1.0076 | +0.2 | 1.13E+04 | 2.94 | 1.16 | 6.55 | 9.03E+02 | 5.05 |
| PCB-150 22'34'66'-HxCB | 29.94 | EMPC | 1.0119 | 1.0116 | -0.5 | 4.27E+04 | 0.91 | 1.00 | 28.6 | 9.03E+02 | 5.84 |
| PCB-136 22'33'66'-HxCB | 30.28 | | 1.0230 | 1.0231 | +0.2 | 8.76E+05 | 1.34 | 0.97 | 608 | 9.03E+02 | 6.06 |
| PCB-145 22'3466'-HxCB | ND | | 1.0313 | | | | | 1.09 | ND | 9.03E+02 | 5.35 |
| PCB-148 22'34'56'-HxCB | ND | | 1.0735 | | | | | 1.00 | ND | 9.03E+02 | 6.85 |
| PCB-151/135 ...-HxCB | 32.29 | C | 1.0919 | 1.0912 | -1.4 | 1.44E+06 | 1.13 | 0.98 | 1,060 | 9.03E+02 | 6.98 |
| PCB-154 22'44'56'-HxCB | 32.48 | EMPC | 1.0979 | 1.0976 | -0.6 | 4.57E+04 | 1.64 | 1.06 | 31.3 | 9.03E+02 | 6.47 |
| PCB-144 22'345'6-HxCB | 32.77 | | 1.1074 | 1.1073 | -0.2 | 2.16E+05 | 1.25 | 0.99 | 158 | 9.03E+02 | 6.9 |
| PCB-147/149 ...-HxCB | 33.07 | C | 1.1177 | 1.1175 | -0.4 | 2.83E+06 | 1.22 | 1.08 | 1,890 | 9.03E+02 | 6.32 |
| PCB-134 22'33'56-HxCB | 33.26 | | 1.1238 | 1.1239 | +0.2 | 1.33E+05 | 1.36 | 0.78 | 123 | 9.03E+02 | 8.76 |
| PCB-143 22'3456'-HxCB | ND | | 1.1264 | | | | | 0.97 | ND | 9.03E+02 | 7.04 |
| PCB-139/140 ...-HxCB | ND | C | 1.1348 | | | | | 1.03 | ND | 9.03E+02 | 6.62 |
| PCB-131 22'33'46-HxCB | ND | | 1.1412 | | | | | 0.91 | ND | 9.03E+02 | 7.52 |
| PCB-142 22'3456-HxCB | ND | | 1.1457 | | | | | 0.89 | ND | 9.03E+02 | 7.69 |
| PCB-132 22'33'46'-HxCB | 34.16 | | 1.1544 | 1.1543 | -0.2 | 5.96E+05 | 1.23 | 0.94 | 458 | 9.03E+02 | 7.27 |
| PCB-133 22'33'55'-HxCB | 34.54 | EMPC | 1.1672 | 1.1673 | +0.2 | 4.03E+04 | 1.97 | 1.03 | 28.3 | 9.03E+02 | 6.64 |
| PCB-165 233'55'6-HxCB | ND | | 0.9512 | | | | | 1.23 | ND | 9.03E+02 | 5.55 |
| PCB-146 22'34'55'-HxCB | 35.09 | | 0.9571 | 0.9572 | +0.2 | 3.44E+05 | 1.24 | 1.17 | 212 | 9.03E+02 | 5.83 |
| PCB-161 233'45'6-HxCB | ND | | 0.9601 | | | | | 1.42 | ND | 9.03E+02 | 4.8 |
| PCB-153/168 ...-HxCB | 35.60 | C | 0.9718 | 0.9713 | -1.1 | 2.86E+06 | 1.26 | 1.27 | 1,630 | 9.03E+02 | 5.38 |
| PCB-141 22'3455'-HxCB | 35.79 | | 0.9762 | 0.9764 | +0.4 | 7.07E+05 | 1.22 | 0.96 | 534 | 9.03E+02 | 7.14 |
| PCB-130 22'33'45'-HxCB | 36.17 | EMPC | 0.9857 | 0.9867 | +2.2 | 1.68E+05 | 0.93 | 0.83 | 146 | 9.03E+02 | 8.21 |
| PCB-137 22'344'5-HxCB | 36.33 | | 0.9909 | 0.9911 | +0.4 | 8.12E+04 | 1.15 | 1.01 | 58 | 9.03E+02 | 6.76 |
| PCB-164 233'4'5'6-HxCB | 36.43 | | 0.9935 | 0.9937 | +0.4 | 2.04E+05 | 1.14 | 1.33 | 111 | 9.03E+02 | 5.15 |
| PCB-163/138/129 ...-HxCB | 36.68 | C | 1.0011 | 1.0007 | -0.9 | 1.84E+06 | 1.32 | 1.03 | 1,290 | 9.03E+02 | 6.62 |
| PCB-160 233'456-HxCB | ND | | 1.0045 | | | | | 1.20 | ND | 9.03E+02 | 5.69 |
| PCB-158 233'44'6-HxCB | 37.01 | B | 1.0096 | 1.0096 | 0 | 2.49E+05 | 1.35 | 1.35 | 133 | 9.03E+02 | 5.05 |

Lab ID: B9770_21382_PCB_001

ACQ: 17-Sep-2024 21:03:27 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#1 Mill Off

UTP: 20-Sep-2024 10:52:51 PSW

J-level: 20 pg Split: 2

Checkcode: 125-978-HKP/C

Datafile: 240917S11

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

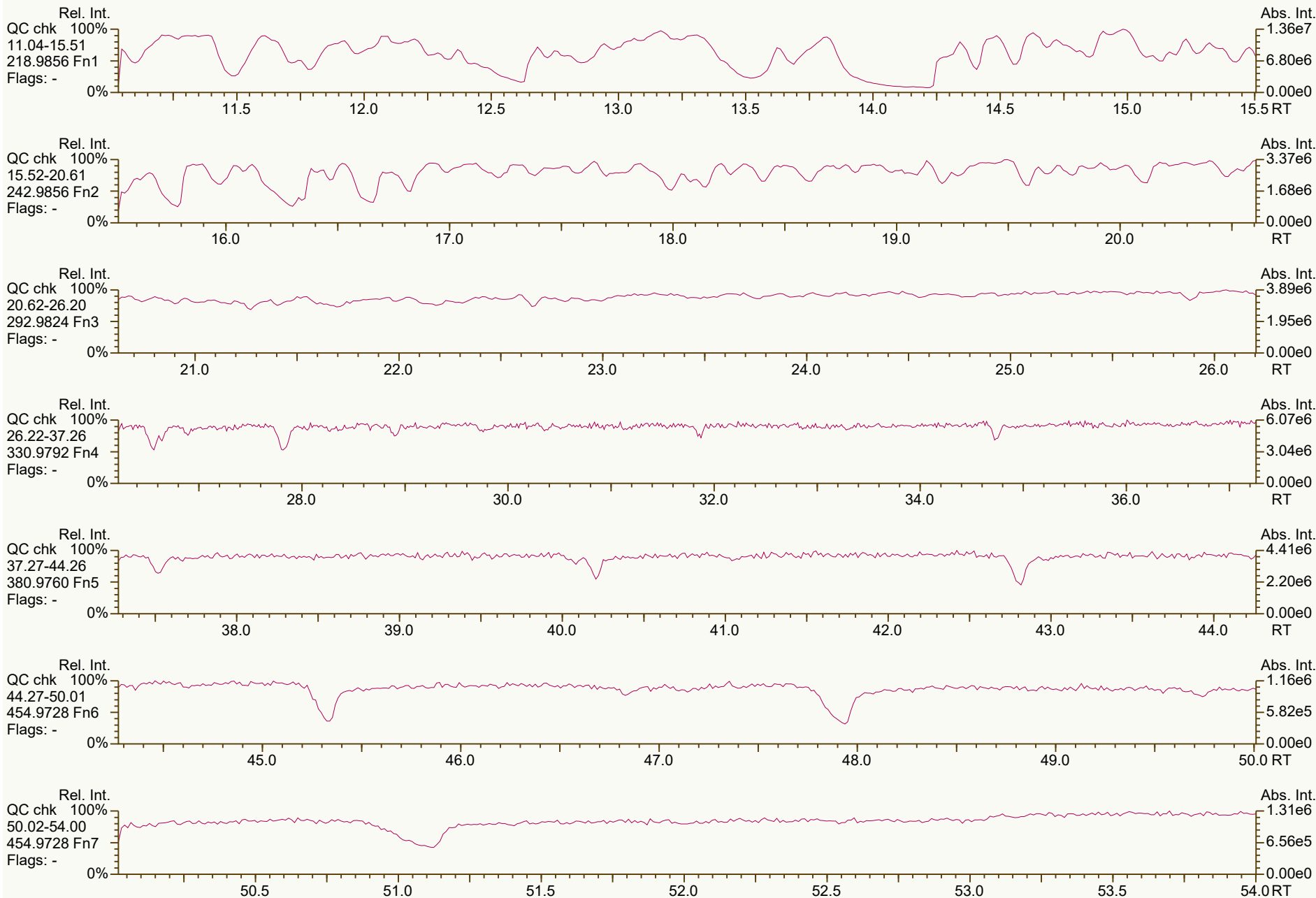
Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-------------------|--------|-------------------|-------------------|--------------|---------------------|-----------------|-----------------|-------------------|-------------------|-----------------|
| PCB-128/166 ...-HxCB | 37.78 | EMPC C | 0.9635 | 0.9644 | +2.0 | 1.41E+05 | 1.46 | 0.88 | 106 | 1.45E+03 | 11.3 |
| PCB-159 233'455'-HxCB | 38.54 | | 0.9840 | 0.9838 | -0.5 | 4.94E+04 | 1.35 | 1.16 | 28.1 | 1.45E+03 | 8.59 |
| PCB-162 233'4'55'-HxCB | ND | | 0.9902 | | | | | 0.99 | ND | 1.45E+03 | 10.1 |
| PCB-188 22'34'566'-HpCB | ND | | 1.0006 | | | | | 1.55 | ND | 9.24E+02 | 5.81 |
| PCB-179 22'33'566'-HpCB | 34.78 | | 1.0095 | 1.0096 | +0.2 | 5.68E+05 | 1.03 | 1.32 | 425 | 9.24E+02 | 6.83 |
| PCB-184 22'344'66'-HpCB | ND | | 1.0219 | | | | | 1.20 | ND | 9.24E+02 | 7.47 |
| PCB-176 22'33'466'-HpCB | 35.53 | | 1.0312 | 1.0313 | +0.2 | 1.71E+05 | 1.16 | 1.13 | 149 | 9.24E+02 | 7.94 |
| PCB-186 22'34566'-HpCB | ND | | 1.0427 | | | | | 1.35 | ND | 9.24E+02 | 6.63 |
| PCB-178 22'33'55'6'-HpCB | 37.04 | EMPC | 1.0752 | 1.0753 | +0.2 | 1.42E+05 | 1.34 | 0.90 | 156 | 9.24E+02 | 10 |
| PCB-175 22'33'45'6'-HpCB | 37.57 | | 1.0908 | 1.0908 | 0 | 3.88E+04 | 0.98 | 0.96 | 30.3 | 1.73E+03 | 14.9 |
| PCB-187 22'34'55'6'-HpCB | 37.80 | | 1.0974 | 1.0974 | 0 | 1.37E+06 | 1.01 | 1.18 | 871 | 1.73E+03 | 12.2 |
| PCB-182 22'344'56'-HpCB | ND | | 1.1024 | | | | | 1.13 | ND | 1.73E+03 | 12.6 |
| PCB-183 22'344'5'6'-HpCB | 38.32 | | 1.1124 | 1.1124 | 0 | 5.95E+05 | 1.07 | 1.07 | 418 | 1.73E+03 | 13.4 |
| PCB-185 22'3455'6'-HpCB | 38.42 | | 1.1152 | 1.1152 | 0 | 1.19E+05 | 1.01 | 0.92 | 97.1 | 1.73E+03 | 15.5 |
| PCB-174 22'33'456'-HpCB | 38.53 | | 1.1187 | 1.1187 | 0 | 9.30E+05 | 1.03 | 1.02 | 682 | 1.73E+03 | 14 |
| PCB-177 22'33'45'6'-HpCB | 38.91 | | 1.1296 | 1.1295 | -0.2 | 4.11E+05 | 0.98 | 1.03 | 301 | 1.73E+03 | 13.9 |
| PCB-181 22'344'56'-HpCB | ND | | 1.1391 | | | | | 1.08 | ND | 1.73E+03 | 13.2 |
| PCB-171/173 ...-HpCB | 39.44 | C | 1.1447 | 1.1449 | +0.5 | 2.06E+05 | 1.03 | 0.91 | 169 | 1.73E+03 | 15.6 |
| PCB-172 22'33'455'-HpCB | 40.78 | | 0.9065 | 0.9067 | +0.5 | 9.51E+04 | 1.06 | 0.96 | 74.2 | 1.73E+03 | 14.9 |
| PCB-192 233'455'6'-HpCB | ND | | 0.9118 | | | | | 1.39 | ND | 1.73E+03 | 10.3 |
| PCB-180/193 ...-HpCB | 41.32 | C | 0.9181 | 0.9188 | +1.7 | 1.45E+06 | 0.97 | 1.15 | 948 | 1.73E+03 | 12.4 |
| PCB-191 233'44'5'6'-HpCB | 41.62 | J EMPC | 0.9253 | 0.9254 | +0.2 | 2.85E+04 | 1.40 | 1.24 | 17.3 | 1.73E+03 | 11.5 |
| PCB-170 22'33'44'5'-HpCB | 42.40 | | 0.9427 | 0.9428 | +0.3 | 3.04E+05 | 1.01 | 1.04 | 242 | 1.73E+03 | 14.1 |
| PCB-190 233'44'56'-HpCB | 42.85 | | 0.9525 | 0.9527 | +0.5 | 6.95E+04 | 1.03 | 1.43 | 40.1 | 1.73E+03 | 10.2 |
| PCB-202 22'33'55'66'-OoCB | 38.99 | EMPC | 1.0005 | 1.0004 | -0.2 | 1.22E+05 | 1.05 | 1.32 | 73.2 | 6.86E+02 | 4.23 |
| PCB-201 22'33'45'66'-OoCB | 39.76 | EMPC | 1.0204 | 1.0202 | -0.5 | 6.40E+04 | 1.21 | 0.95 | 53.4 | 6.86E+02 | 5.86 |
| PCB-204 22'344'566'-OoCB | ND | | 1.0349 | | | | | 1.09 | ND | 6.86E+02 | 5.11 |
| PCB-197 22'33'44'66'-OoCB | 40.53 | | 1.0399 | 1.0400 | +0.2 | 3.20E+04 | 0.78 | 1.04 | 24.5 | 6.86E+02 | 5.38 |
| PCB-200 22'33'4566'-OoCB | 40.64 | | 1.0428 | 1.0427 | -0.2 | 7.11E+04 | 0.88 | 0.98 | 57.8 | 6.86E+02 | 5.71 |
| PCB-198/199 ...-OoCB | 42.96 | C | 1.1020 | 1.1024 | +1.0 | 2.48E+05 | 0.84 | 0.88 | 225 | 6.86E+02 | 6.38 |
| PCB-196 22'33'44'56'-OoCB | 43.52 | | 1.1166 | 1.1167 | +0.3 | 1.14E+05 | 0.84 | 0.78 | 116 | 6.86E+02 | 7.12 |
| PCB-203 22'344'55'6'-OoCB | 43.68 | | 1.1208 | 1.1208 | 0 | 1.44E+05 | 0.82 | 0.97 | 119 | 6.86E+02 | 5.78 |
| PCB-195 22'33'44'56'-OoCB | 44.80 | EMPC | 0.9499 | 0.9498 | -0.3 | 4.35E+04 | 1.05 | 0.74 | 44.4 | 8.38E+02 | 9.77 |
| PCB-194 22'33'44'55'-OoCB | 46.77 | EMPC | 0.9914 | 0.9915 | +0.3 | 7.11E+04 | 0.68 | 0.81 | 66.3 | 8.38E+02 | 8.92 |
| PCB-205 233'44'55'6'-OoCB | 47.18 | J EMPC | 1.0004 | 1.0002 | -0.6 | 2.37E+04 | 0.67 | 1.12 | 16 | 8.38E+02 | 6.46 |
| PCB-208 22'33'455'66'-NoCB | 44.59 | | 1.0005 | 1.0007 | +0.5 | 4.59E+04 | 0.85 | 1.11 | 28.6 | 2.90E+03 | 19.3 |
| PCB-207 22'33'44'566'-NoCB | ND | | 1.0180 | | | | | 0.90 | ND | 2.90E+03 | 23.8 |
| PCB-206 22'33'44'55'6'-NoCB | 48.89 | | 1.0005 | 1.0005 | 0 | 6.68E+04 | 0.71 | 1.04 | 63 | 2.90E+03 | 36.8 |
| AS PCB-32 FS | 20.027 | | 1.2584 | 1.2538 | -5.5 | 4.33E+06 | 1.04 | 0.77 | 78.7 % | 50% | 150% |
| AS PCB-97 FS | 30.74 | | 1.0317 | 1.0315 | -0.4 | 4.05E+06 | 1.43 | 0.86 | 72.9 % | 50% | 150% |
| AS PCB-159 NR | 38.529 | | 1.0511 | 1.0511 | 0 | 7.41E+06 | 1.15 | 1.57 | 72.7 % | 50% | 150% |

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



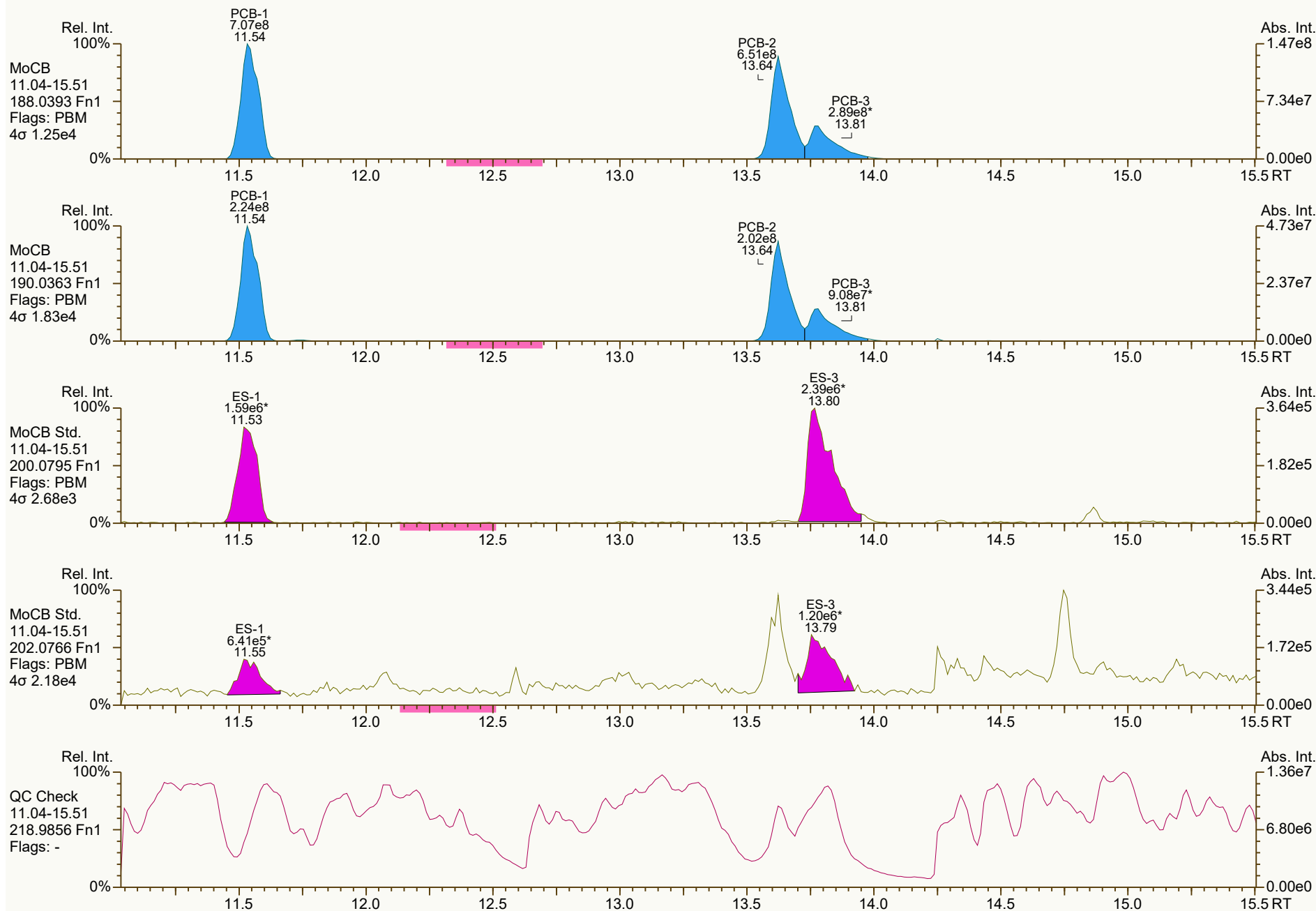
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Peak annotation: Areas, Centroids
PKD: n/a Printed: 20-Sep-2024 11:01 Page 1 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



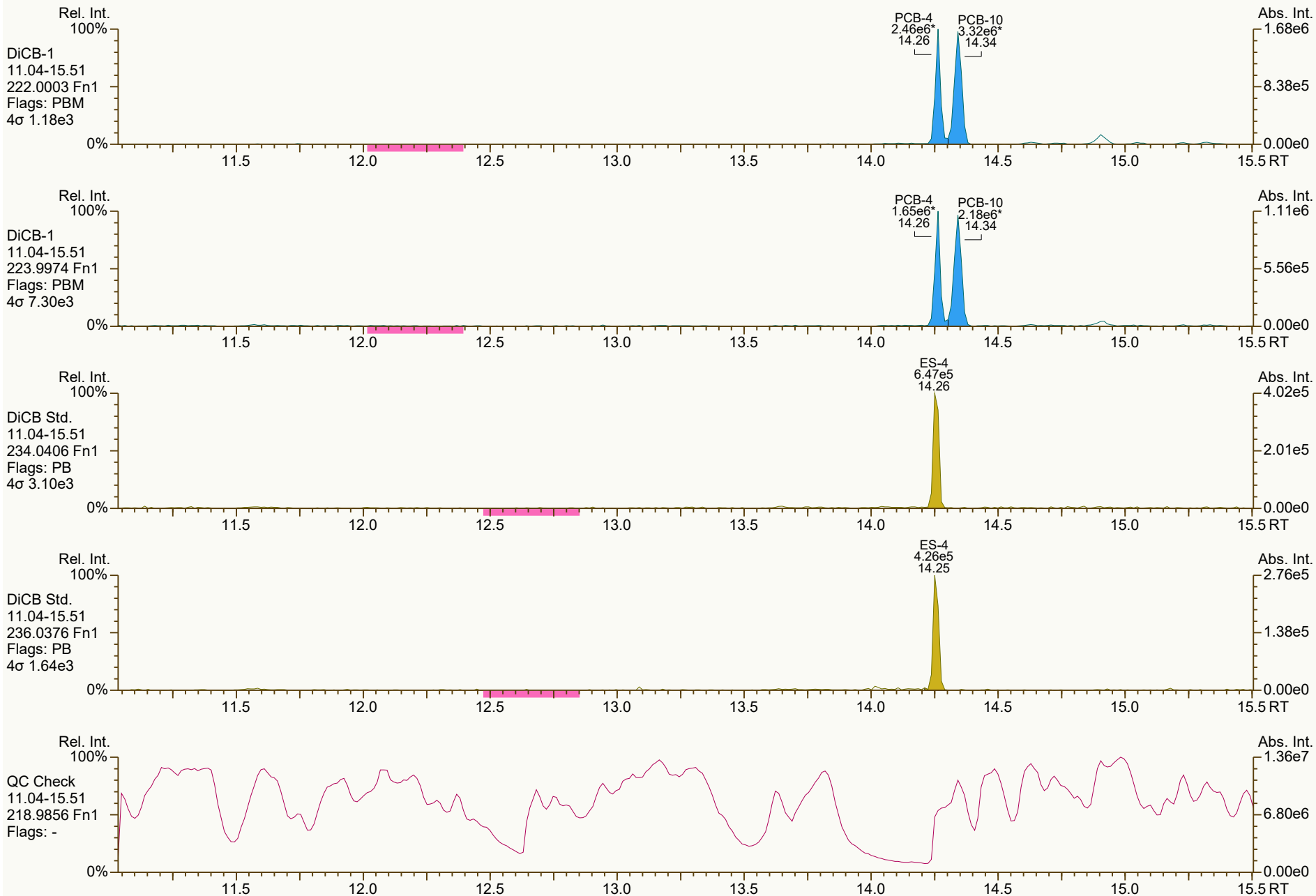
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2780, 6314 scc: 125-978

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:01 Page 2 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



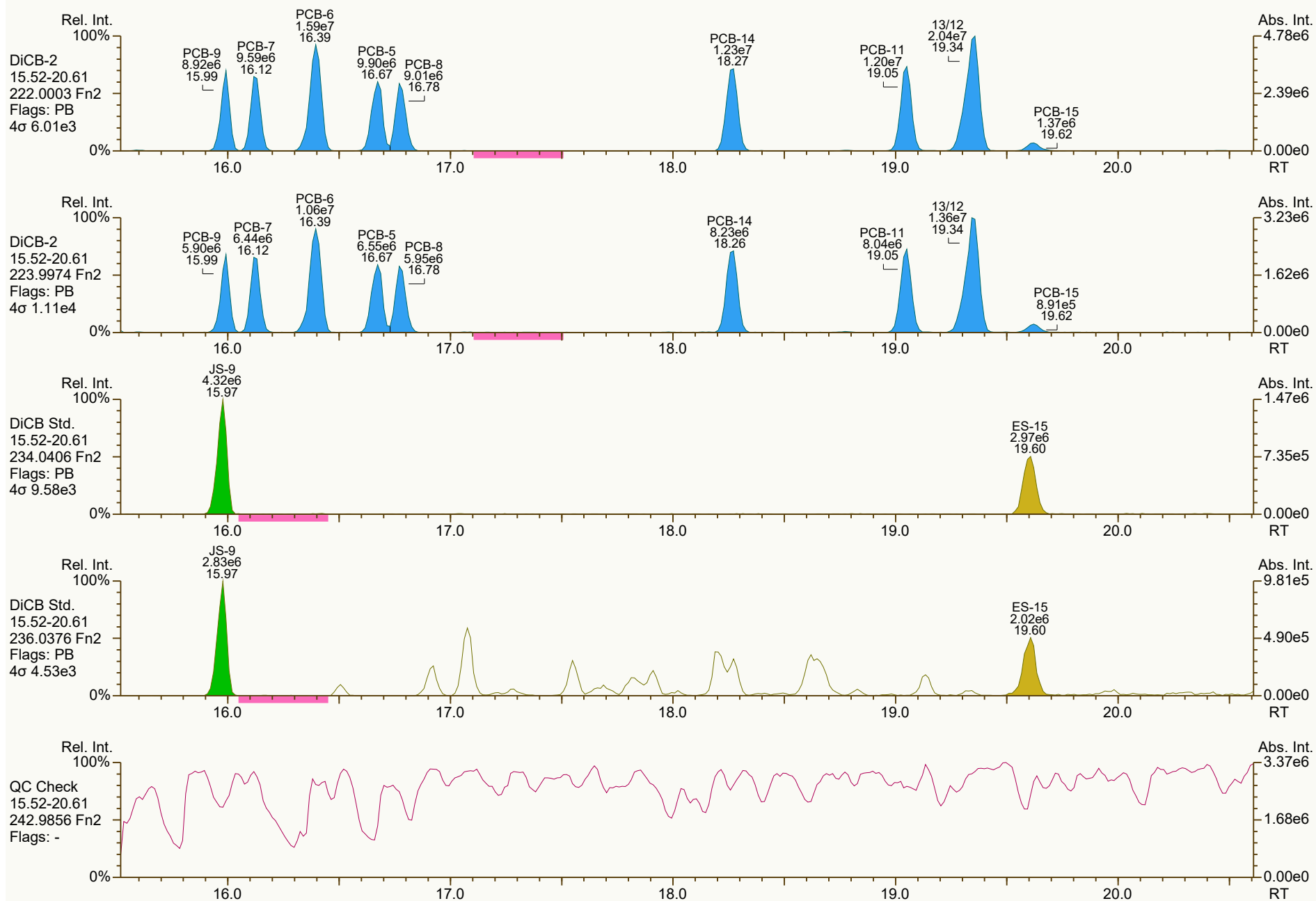
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:01 Page 3 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

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User: RAB Datafile: 240917S11



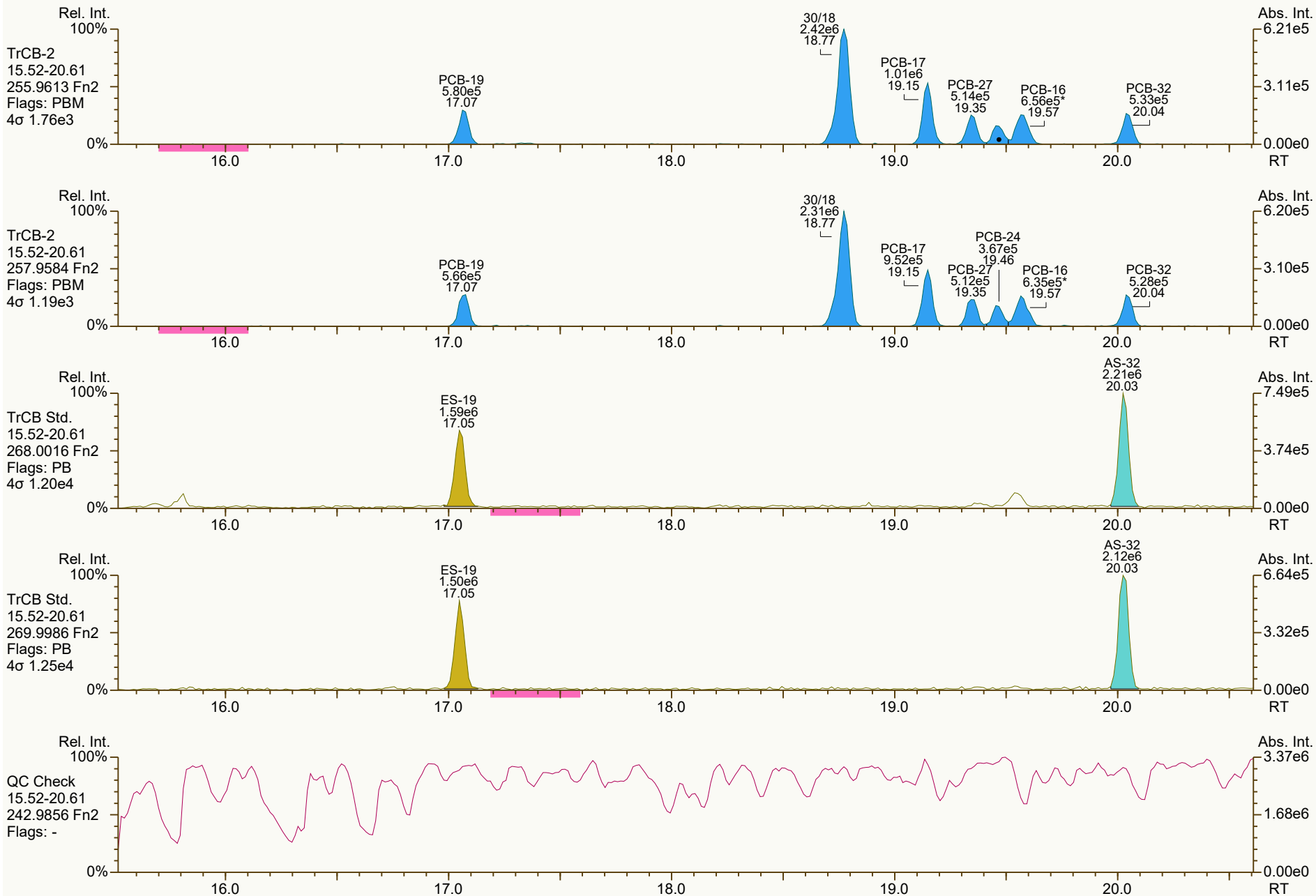
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:01 Page 4 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:01 Page 5 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



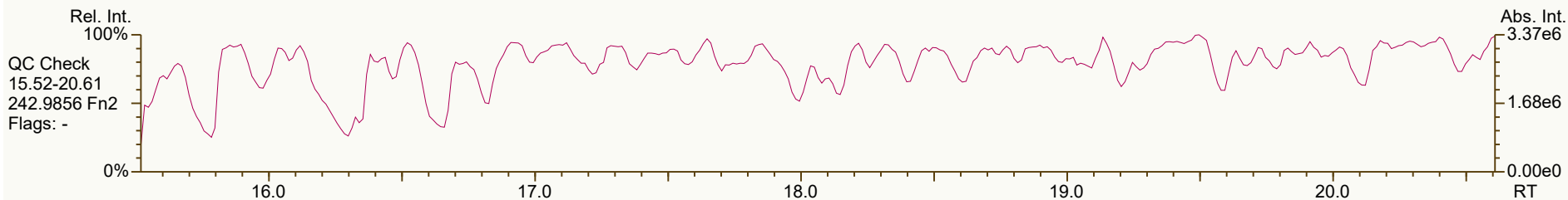
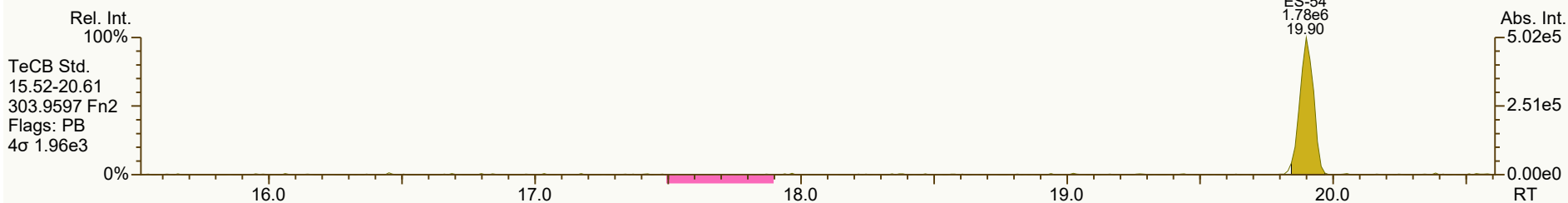
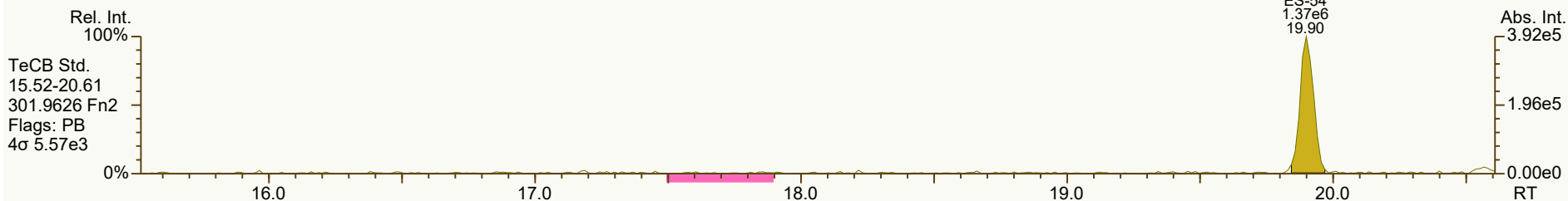
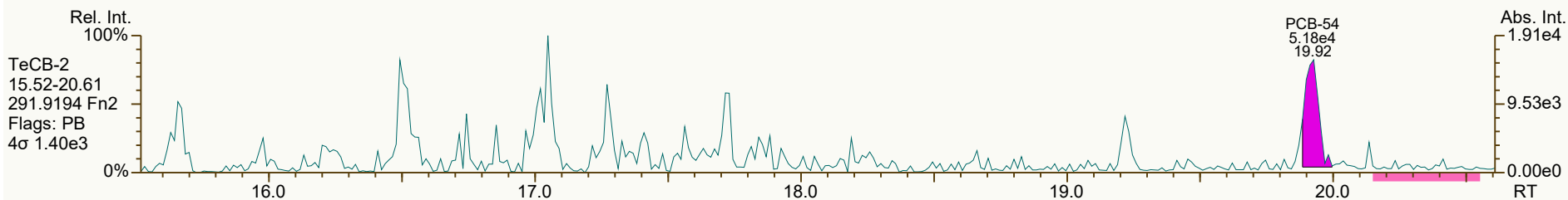
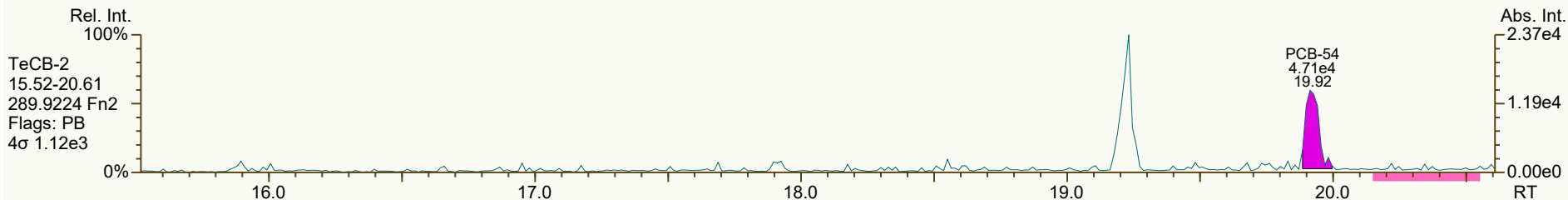
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:01 Page 6 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:01 Page 7 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



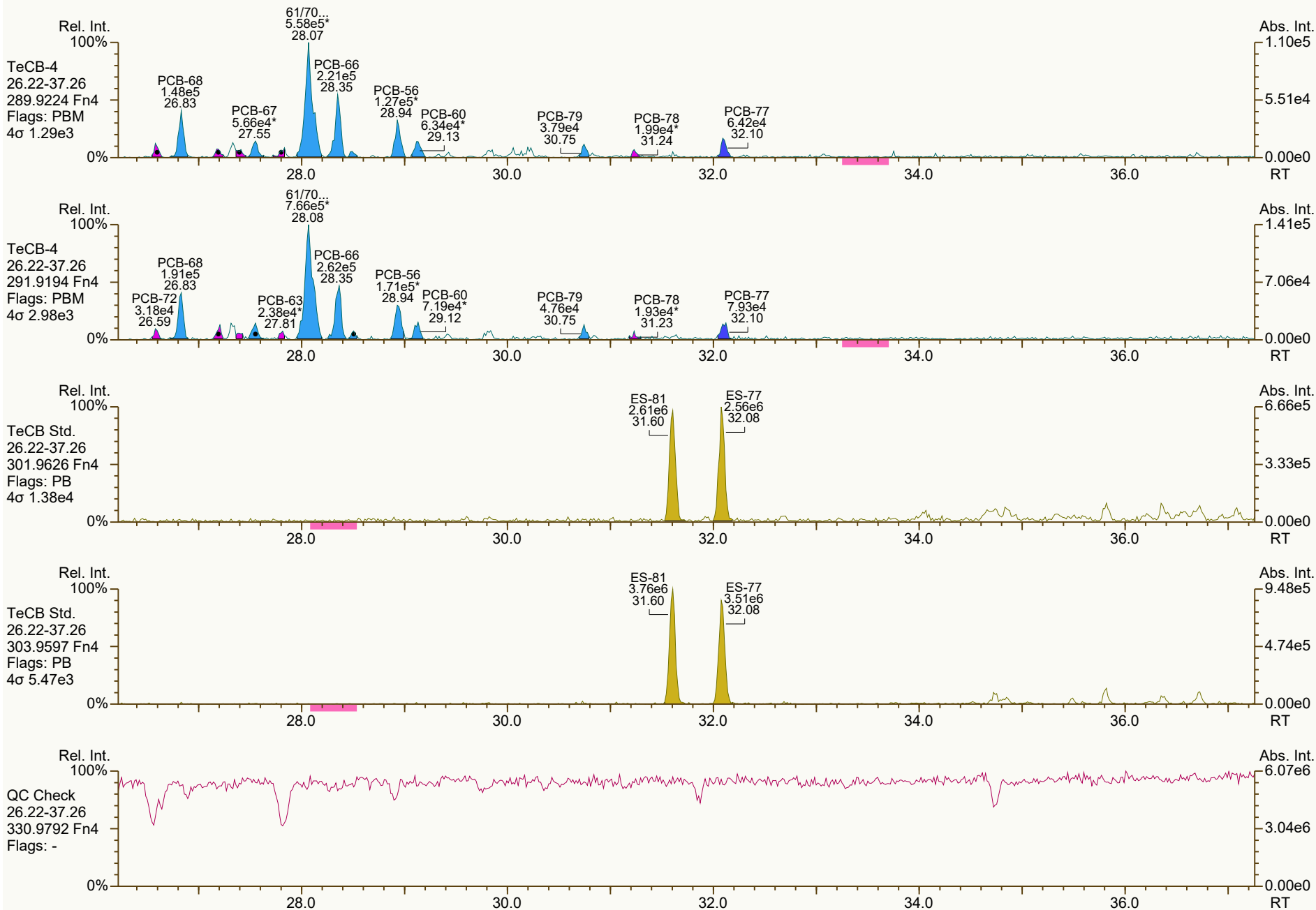
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:01 Page 8 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



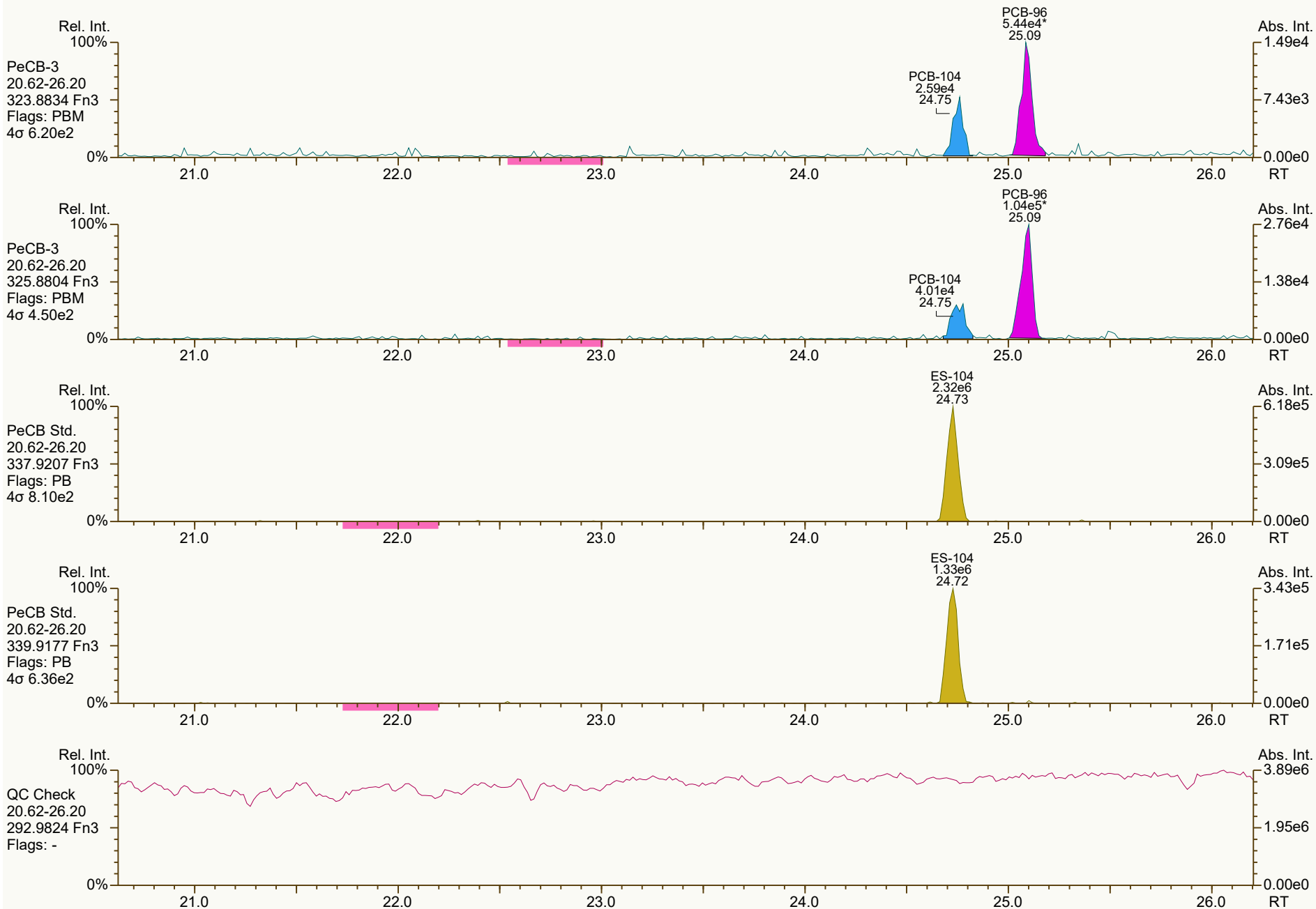
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:01 Page 9 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



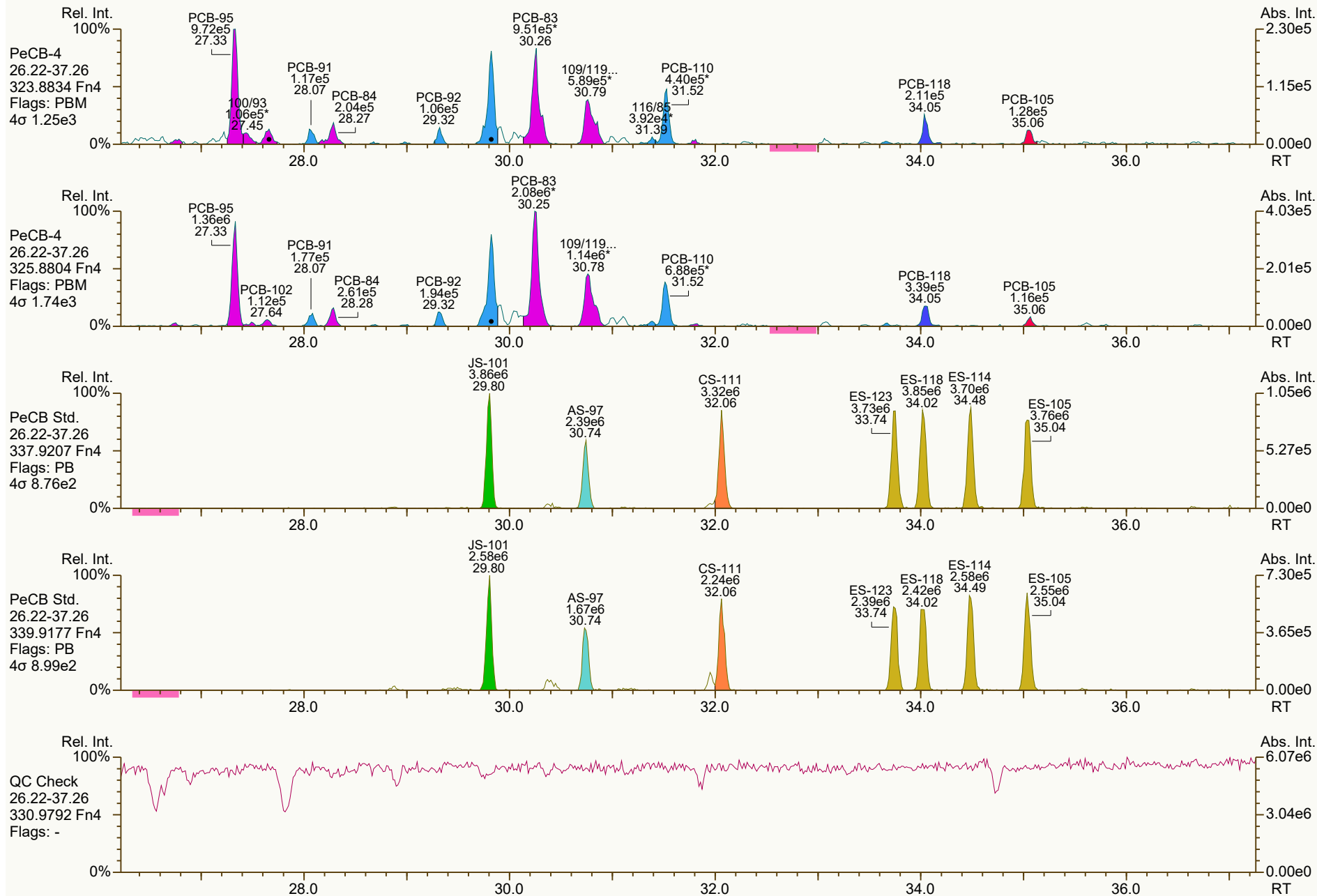
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Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 15:49 (PSW) Printed: 20-Sep-2024 11:02 Page 10 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



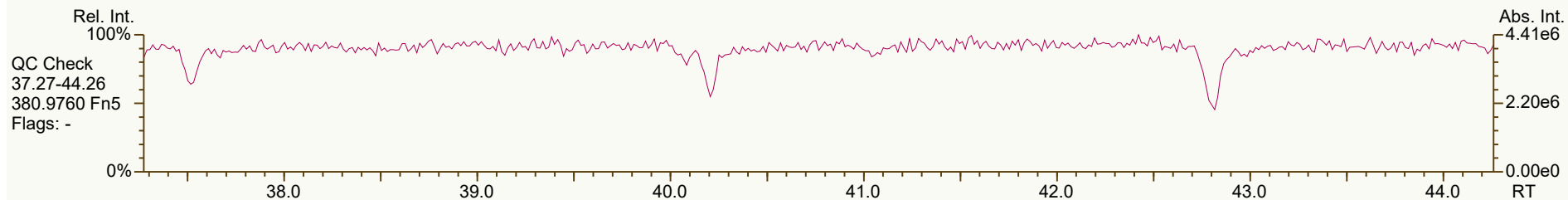
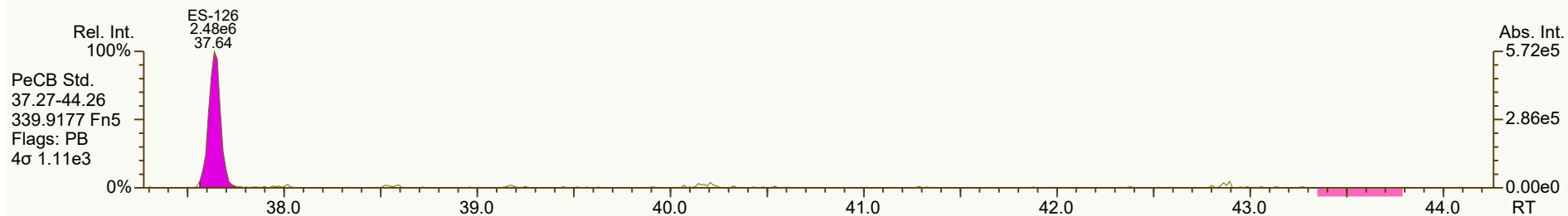
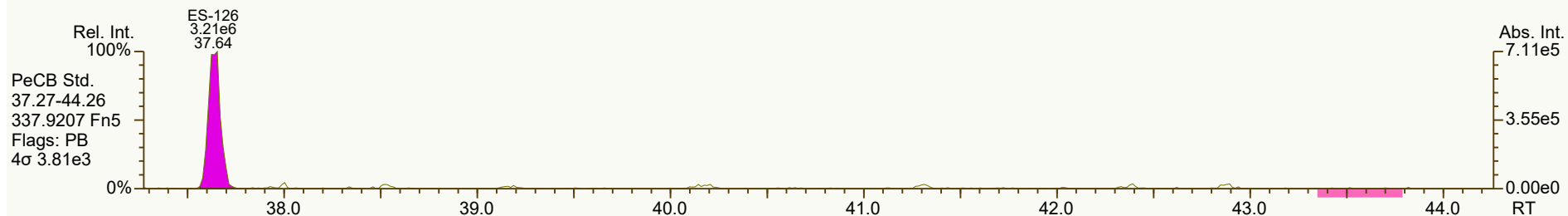
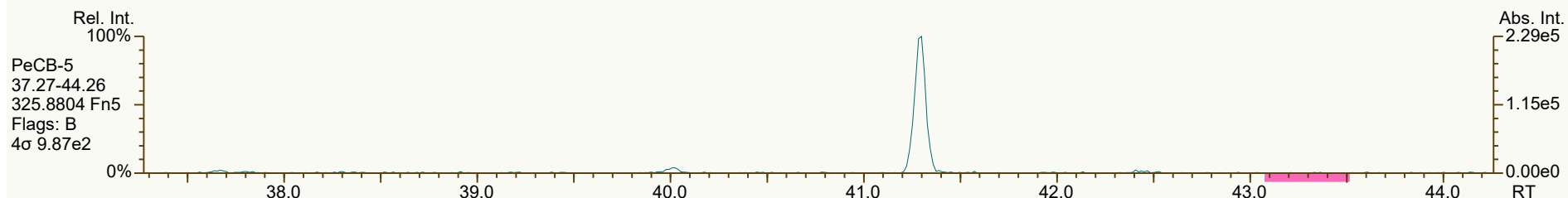
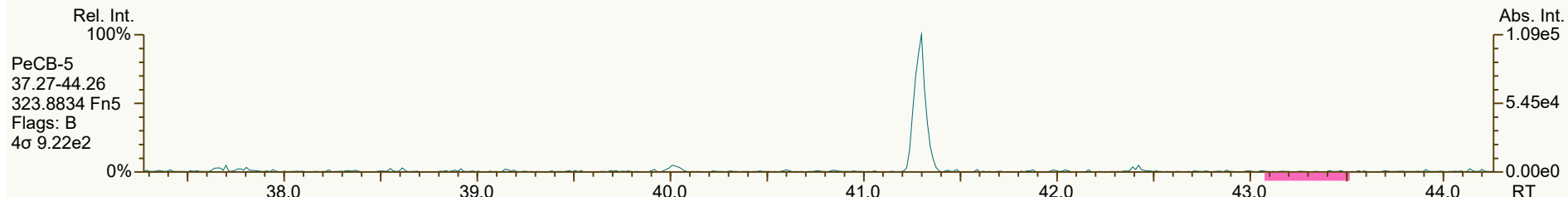
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7484, 6846 scc: 125-978

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:02 Page 11 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



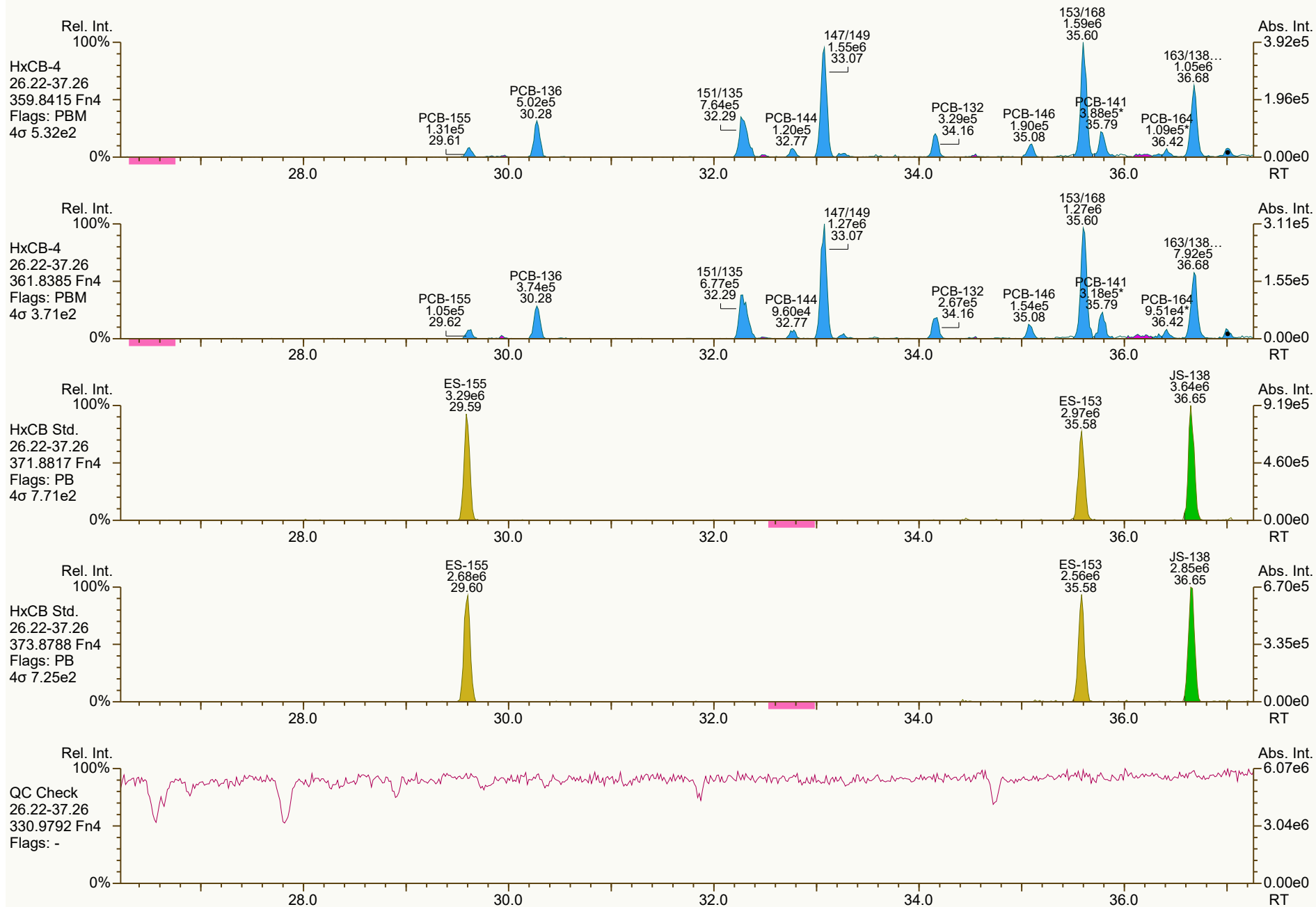
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 0362, 6250 scc: 125-978

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:02 Page 12 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_001.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 0622, 7426 scc: 125-978

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:02 Page 13 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



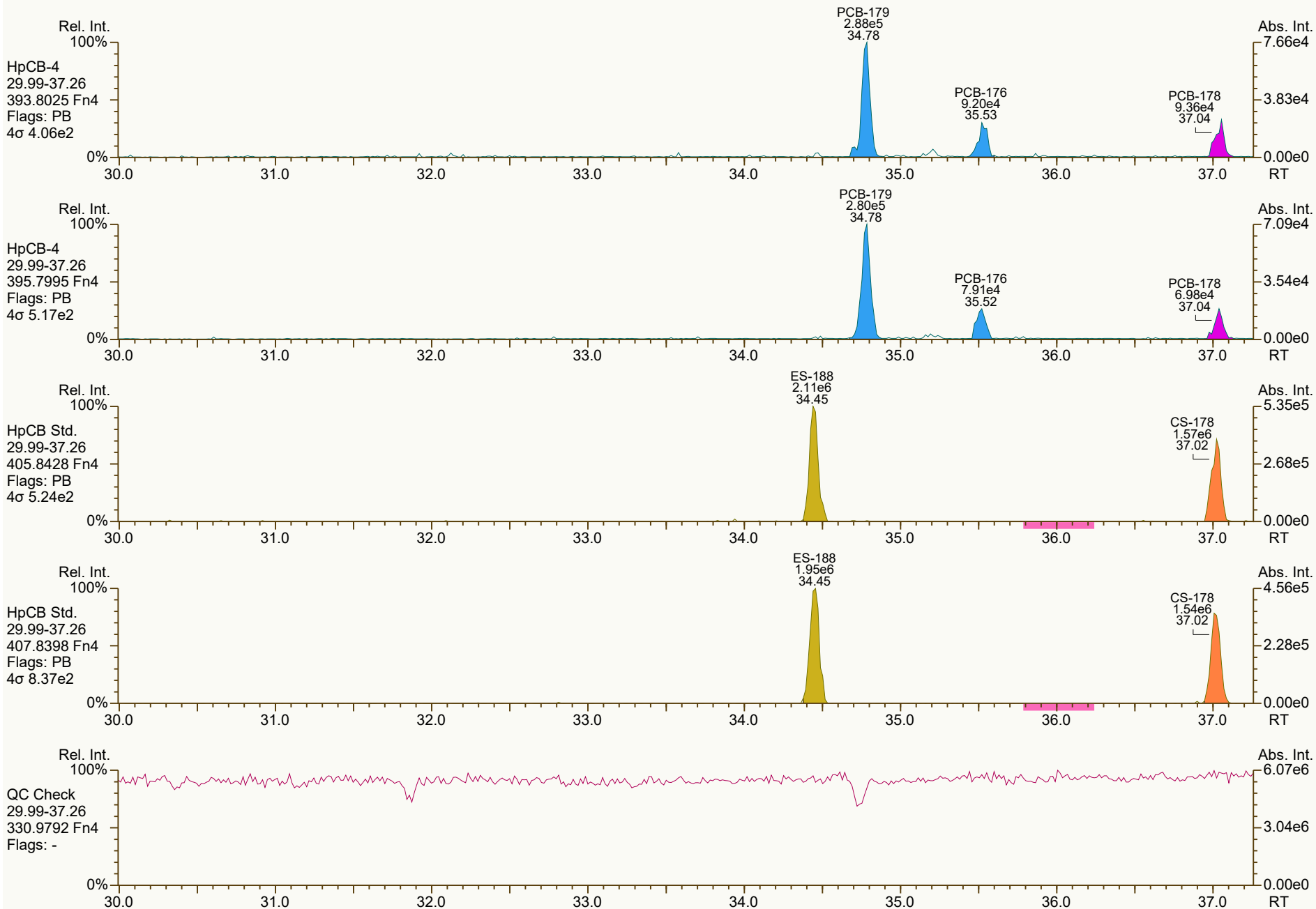
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4431, 8526 scc: 125-978

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:02 Page 14 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_001.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9947, 2883 scc: 125-978

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:02 Page 15 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



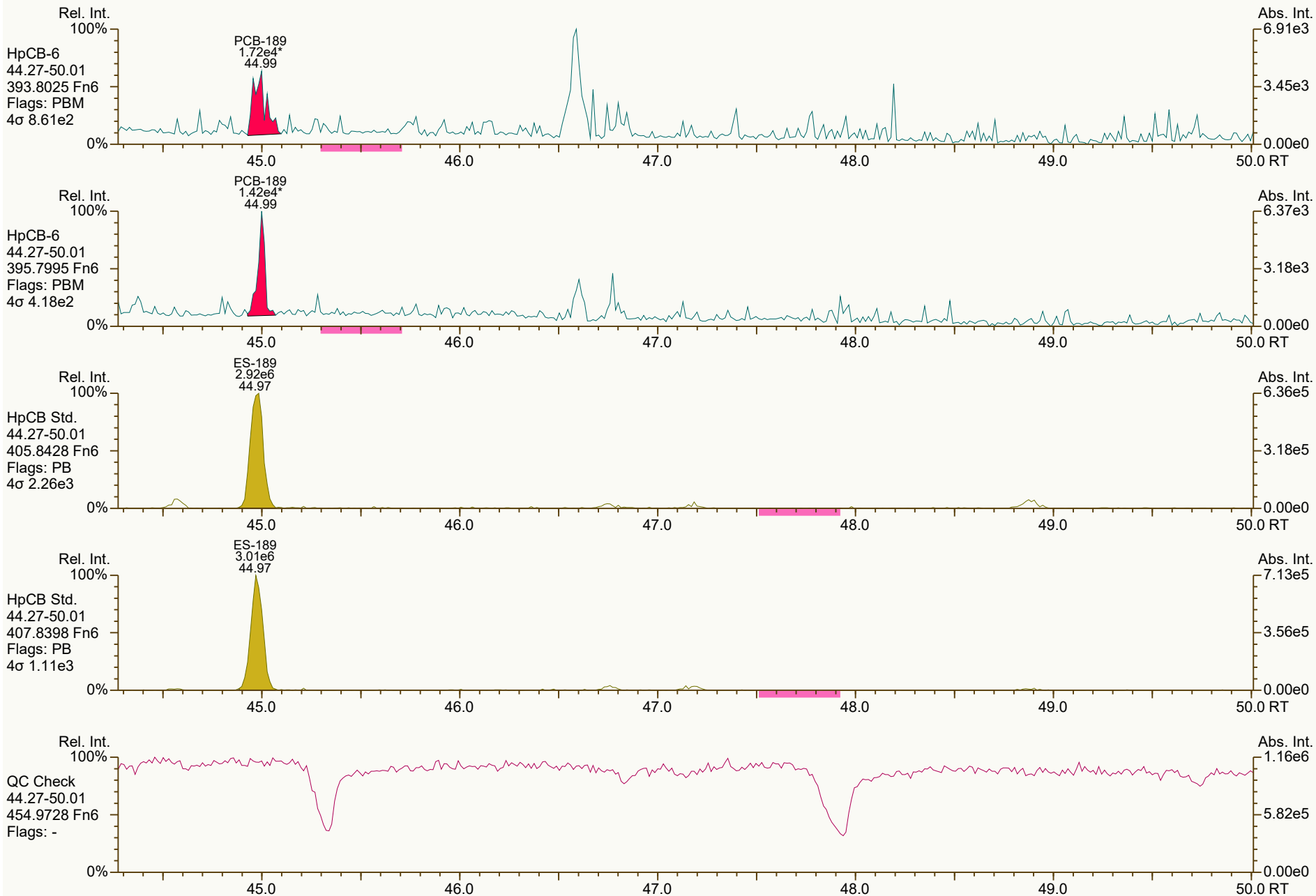
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9153, 5192 scc: 125-978

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:02 Page 16 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



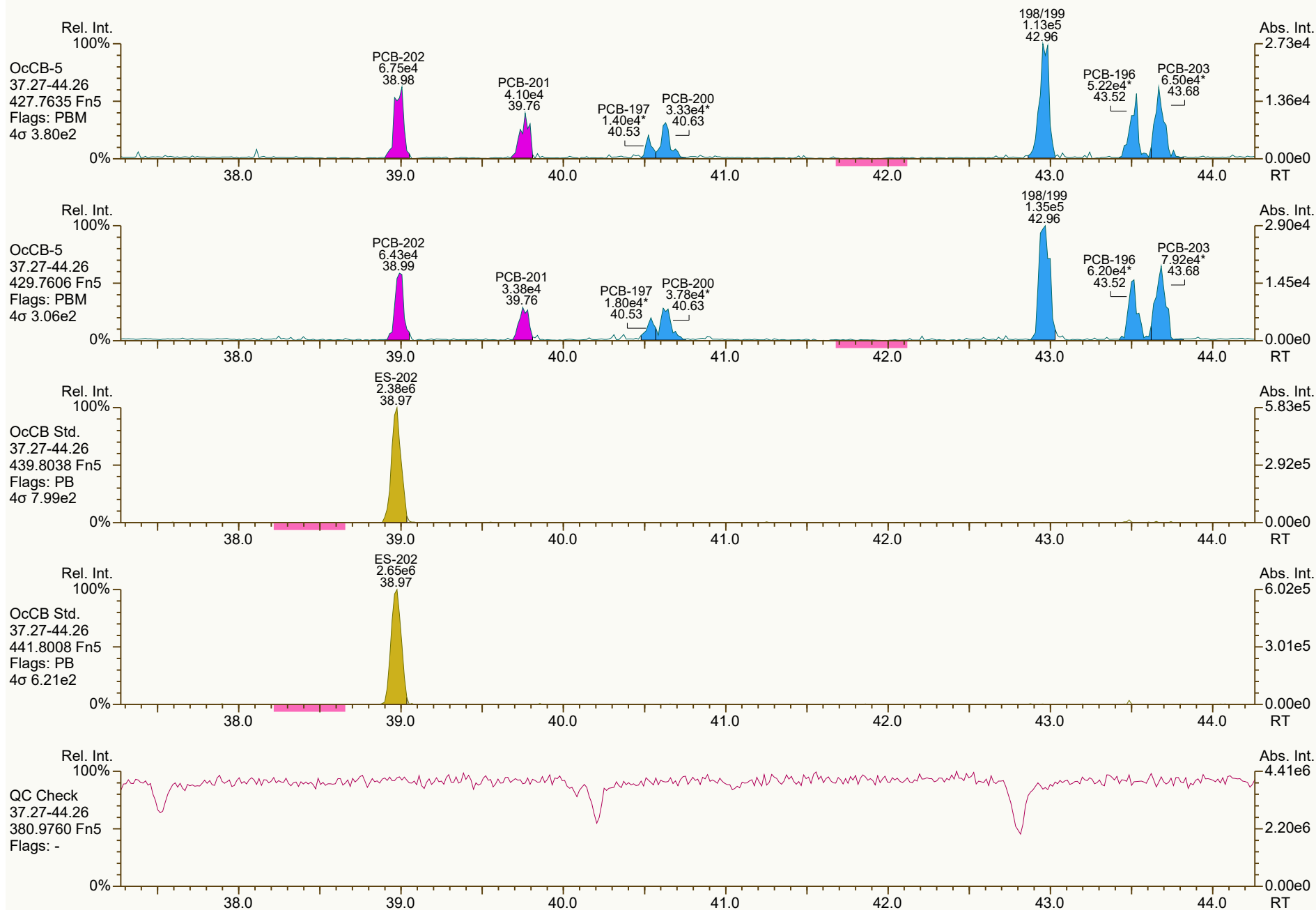
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 3163, 5418 scc: 125-978

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:02 Page 17 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



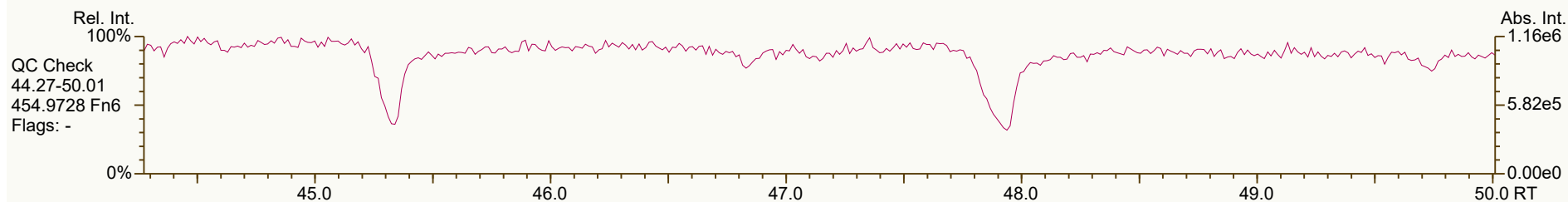
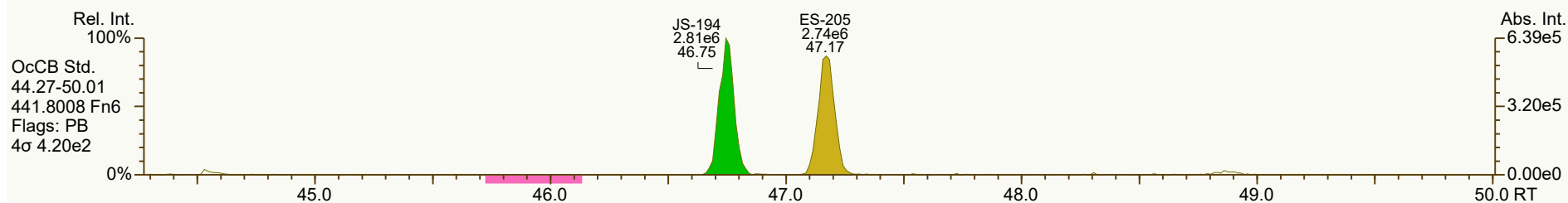
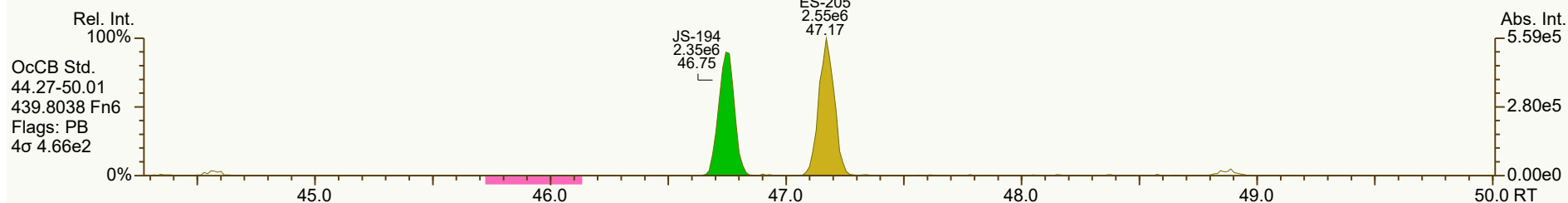
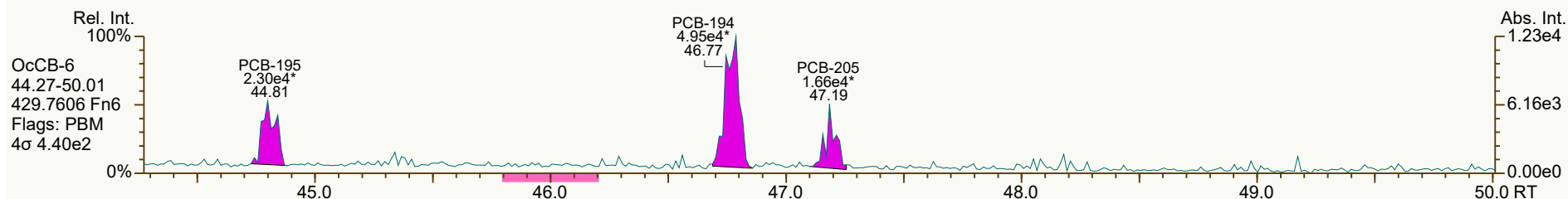
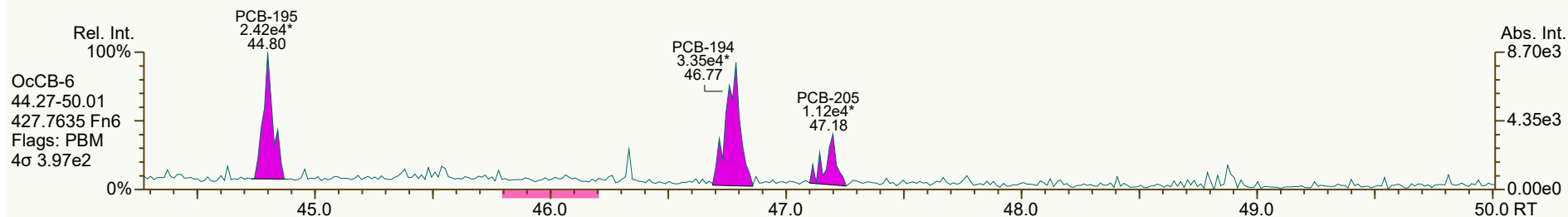
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7890, 4537 scc: 125-978

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:02 Page 18 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



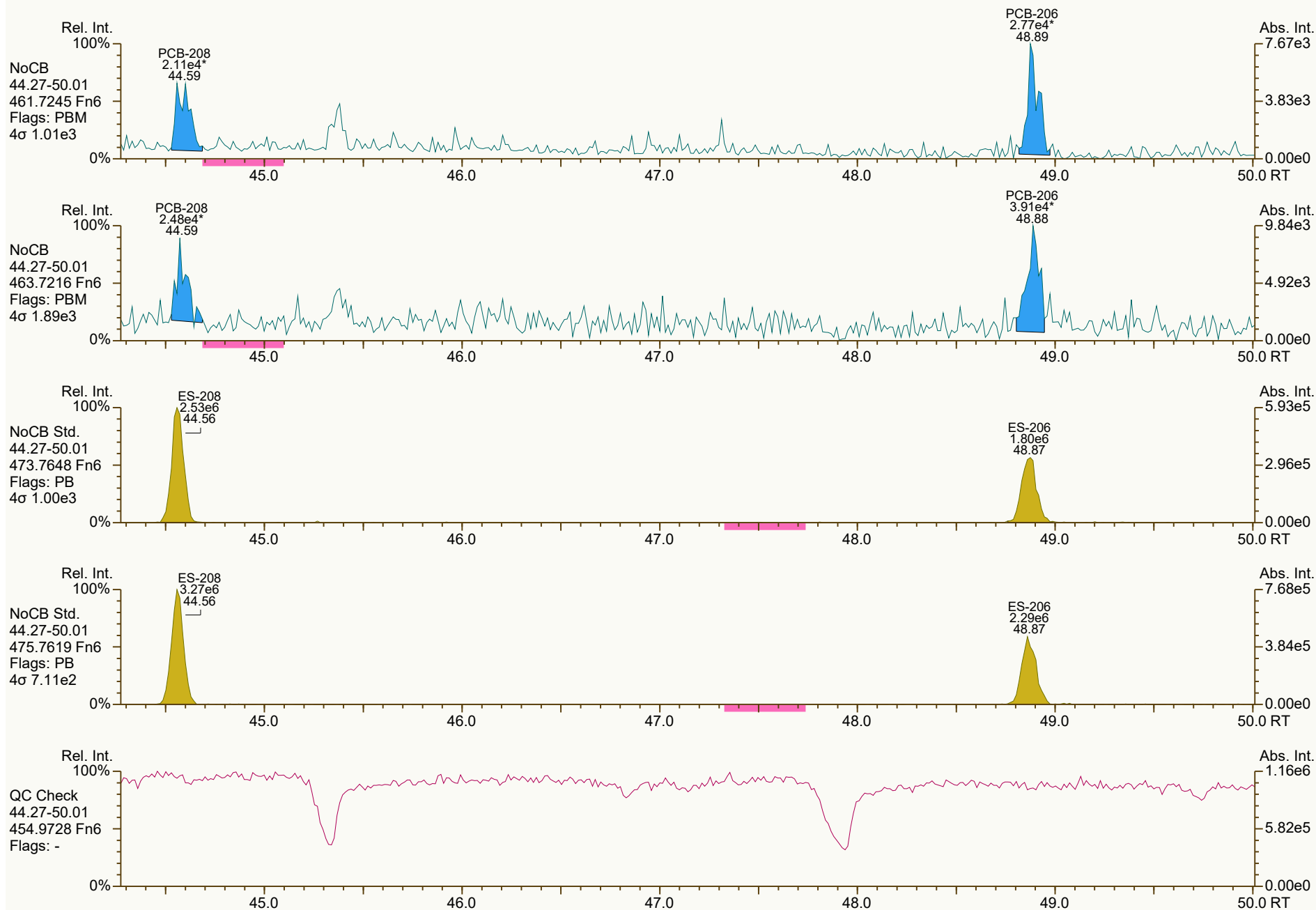
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 0405, 2374 scc: 125-978

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:02 Page 19 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



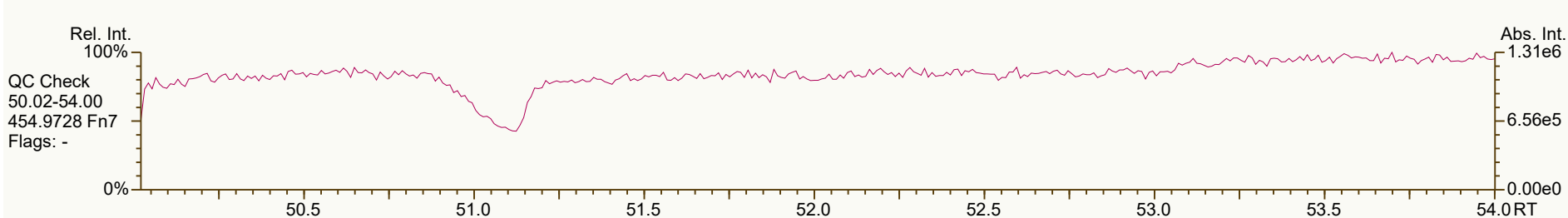
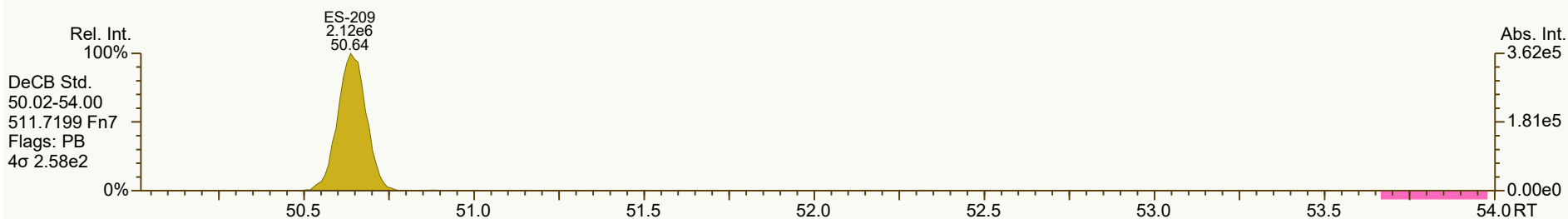
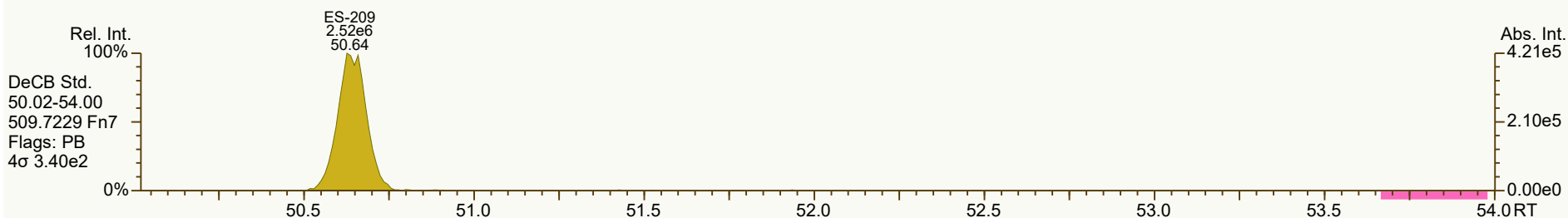
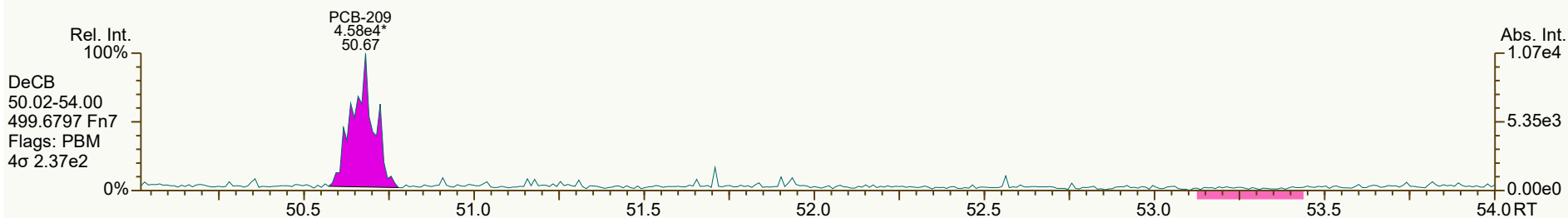
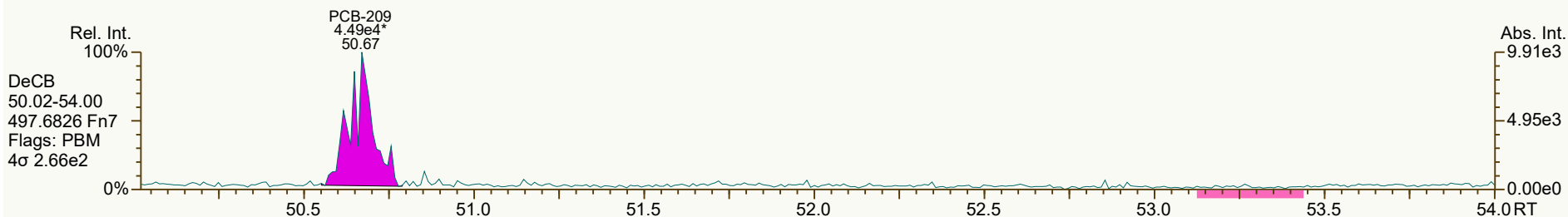
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7234, 0027 scc: 125-978

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:51 Printed: 20-Sep-2024 11:02 Page 20 of 21

SGS ID: B9770_21382_PCB_001
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 70

Acq: 17-Sep-2024 21:03:27
User: RAB Datafile: 240917S11



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_001.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 1511, 0691 scc: 125-978

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 15:51 (PSW) Printed: 20-Sep-2024 11:02 Page 21 of 21

Lab ID: B9770_21382_PCB_002

ACQ: 17-Sep-2024 21:59:22 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#1 Mill On

UTP: 20-Sep-2024 10:52:52 PSW

J-level: 20 pg Split: 2

Checkcode: 519-728-HRG/C

Datafile: 240917S12

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------|-----------|--------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-77 33'44'-TeCB | 32.09 | EMPC | 1.0006 | 1.0004 | -0.4 | 1.14E+05 | 0.93 | 1.45 | 53.4 | 2.73E+03 | 13.5 |
| PCB-81 344'5'-TeCB | ND | | 1.0005 | | | | | 1.46 | ND | 2.73E+03 | 11 |
| PCB-105 233'44'-PeCB | 35.06 | B EMPC | 1.0007 | 1.0007 | 0 | 1.59E+05 | 0.72 | 1.18 | 92.9 | 1.49E+03 | 9.57 |
| PCB-114 2344'5'-PeCB | ND | | 1.0007 | | | | | 1.14 | ND | 1.49E+03 | 9.35 |
| PCB-118 23'44'5'-PeCB | 34.04 | B | 1.0007 | 1.0008 | +0.2 | 4.69E+05 | 0.62 | 1.18 | 246 | 1.49E+03 | 8.95 |
| PCB-123 23'44'5'-PeCB | ND | | 1.0006 | | | | | 1.19 | ND | 1.49E+03 | 8.3 |
| PCB-126 33'44'5'-PeCB | ND | | 1.0005 | | | | | 1.35 | ND | 1.57E+03 | 8.29 |
| PCB-156/157 ...-HxCB | 40.16 | B C | 1.0005 | 1.0001 | -1.0 | 8.60E+04 | 1.19 | 1.23 | 51.3 | 1.17E+03 | 10.4 |
| PCB-167 23'44'55'-HxCB | 39.19 | B | 1.0005 | 1.0006 | +0.2 | 4.24E+04 | 1.27 | 1.22 | 21.7 | 1.17E+03 | 6.47 |
| PCB-169 33'44'55'-HxCB | ND | | 1.0005 | | | | | 1.23 | ND | 1.17E+03 | 6.95 |
| PCB-189 233'44'55'-HpCB | ND | | 1.0004 | | | | | 1.31 | ND | 1.18E+03 | 6.15 |
| PCB-209 DeCB | 50.65 | | 1.0005 | 1.0006 | +0.3 | 8.91E+04 | 1.26 | 1.08 | 65.9 | 6.10E+02 | 6.58 |
| | | | | | | | | | | 20% | 145% |
| ES PCB-1 | 11.46 | | 0.7229 | 0.7229 | 0 | 3.74E+06 | 3.02 | 1.09 | 30 % | 5% | 145% |
| ES PCB-3 | 13.68 | | 0.8630 | 0.8633 | +0.2 | 4.94E+06 | 2.62 | 1.06 | 40.6 % | 5% | 145% |
| ES PCB-4 | 13.96 | | 0.8788 | 0.8807 | +1.6 | 3.08E+06 | 1.60 | 0.52 | 51.7 % | 5% | 145% |
| ES PCB-15 | 19.53 | | 1.2319 | 1.2319 | 0 | 6.78E+06 | 1.48 | 1.11 | 53.1 % | 5% | 145% |
| ES PCB-19 | 16.95 | | 1.0691 | 1.0691 | 0 | 4.04E+06 | 1.04 | 0.54 | 65.3 % | 5% | 145% |
| ES PCB-37 | 25.78 | | 1.0809 | 1.0810 | +0.2 | 6.66E+06 | 1.01 | 1.71 | 41.2 % | 5% | 145% |
| ES PCB-54 | 19.81 | | 0.8306 | 0.8306 | 0 | 4.24E+06 | 0.80 | 0.78 | 57.5 % | 5% | 145% |
| ES PCB-77 | 32.07 | | 1.3442 | 1.3450 | +1.5 | 5.91E+06 | 0.69 | 1.53 | 40.8 % | 10% | 145% |
| ES PCB-81 | 31.59 | | 1.3240 | 1.3247 | +1.3 | 6.58E+06 | 0.74 | 1.55 | 44.7 % | 10% | 145% |
| ES PCB-104 | 24.69 | | 0.8294 | 0.8290 | -0.6 | 4.19E+06 | 1.52 | 0.74 | 75.9 % | 10% | 145% |
| ES PCB-105 | 35.03 | | 1.1761 | 1.1763 | +0.4 | 5.81E+06 | 1.55 | 1.31 | 59.8 % | 10% | 145% |
| ES PCB-114 | 34.48 | | 1.1575 | 1.1576 | +0.2 | 6.12E+06 | 1.51 | 1.34 | 61.3 % | 10% | 145% |
| ES PCB-118 | 34.02 | | 1.1420 | 1.1422 | +0.4 | 6.44E+06 | 1.61 | 1.35 | 64 % | 10% | 145% |
| ES PCB-123 | 33.74 | | 1.1327 | 1.1328 | +0.2 | 6.23E+06 | 1.48 | 1.29 | 65 % | 10% | 145% |
| ES PCB-126 | 37.63 | | 1.2635 | 1.2635 | 0 | 6.07E+06 | 1.42 | 1.59 | 51.2 % | 10% | 145% |
| ES PCB-153 | 35.58 | | 0.9707 | 0.9708 | +0.2 | 4.74E+06 | 1.21 | 1.10 | 64 % | 10% | 145% |
| ES PCB-155 | 29.58 | | 0.8072 | 0.8071 | -0.2 | 5.51E+06 | 1.22 | 1.38 | 59.4 % | 10% | 145% |
| ES PCB-156/157 | 40.15 | C | 1.0958 | 1.0956 | -0.5 | 1.09E+07 | 1.15 | 1.62 | 49.9 % | 10% | 145% |
| ES PCB-167 | 39.16 | | 1.0687 | 1.0686 | -0.2 | 6.42E+06 | 1.12 | 1.70 | 56 % | 10% | 145% |
| ES PCB-169 | 42.86 | | 1.1697 | 1.1696 | -0.3 | 5.80E+06 | 1.19 | 1.55 | 55.5 % | 10% | 145% |
| ES PCB-170 | 42.37 | | 0.9066 | 0.9065 | -0.3 | 4.89E+06 | 1.04 | 1.06 | 79.9 % | 10% | 145% |
| ES PCB-180 | 41.29 | | 0.8835 | 0.8835 | 0 | 5.52E+06 | 1.01 | 1.30 | 73.3 % | 10% | 145% |
| ES PCB-188 | 34.44 | | 0.9398 | 0.9398 | 0 | 4.05E+06 | 1.13 | 0.63 | 96.2 % | 10% | 145% |
| ES PCB-189 | 44.97 | | 0.9621 | 0.9621 | 0 | 6.28E+06 | 0.93 | 1.71 | 63.5 % | 10% | 145% |
| ES PCB-202 | 38.96 | | 1.0632 | 1.0631 | -0.2 | 5.49E+06 | 0.87 | 0.96 | 85.2 % | 10% | 145% |
| ES PCB-205 | 47.16 | | 1.0091 | 1.0091 | 0 | 5.61E+06 | 0.89 | 1.23 | 78.5 % | 10% | 145% |
| ES PCB-206 | 48.85 | | 1.0453 | 1.0453 | 0 | 4.47E+06 | 0.74 | 0.84 | 91.7 % | 10% | 145% |

Lab ID: B9770_21382_PCB_002

ACQ: 17-Sep-2024 21:59:22 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#1 Mill On

UTP: 20-Sep-2024 10:52:52 PSW

J-level: 20 pg Split: 2

Checkcode: 519-728-HRG/C

Datafile: 240917S12

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------|------------------|----|-------------------|-------------------|-----------------|---------------------|-----------------|-----------------|-------------------|----------------------|--------------------|
| | | | | | | | | | | 20% | 145% |
| ES PCB-208 | 44.55 | | 0.9533 | 0.9533 | 0 | 5.93E+06 | 0.76 | 1.25 | 81.7 % | 10% | 145% |
| ES PCB-209 | 50.62 | | 1.0832 | 1.0832 | 0 | 5.03E+06 | 1.18 | 0.94 | 92.2 % | 10% | 145% |
| | | | | | | | | | | 70% | 130% |
| SS PCB-28 | 22.24 | | 0.9327 | 0.9327 | 0 | 6.12E+06 | 1.02 | 1.01 | 90.5 % | 5% | 145% |
| SS PCB-111 | 32.06 | | 1.0762 | 1.0764 | +0.4 | 5.20E+06 | 1.48 | 0.97 | 86.3 % | 10% | 145% |
| SS PCB-178 | 37.01 | | 1.0098 | 1.0099 | +0.2 | 2.84E+06 | 1.03 | 0.74 | 94.8 % | 10% | 145% |
| ES PCB-20 | 22.24 | | 0.9327 | 0.9327 | 0 | 6.12E+06 | 1.02 | 1.73 | 97.2 % | 5% | 145% |
| ES PCB-111 | 32.06 | | 1.0762 | 1.0764 | +0.4 | 5.20E+06 | 1.48 | 1.25 | 56.1 % | 10% | 145% |
| ES PCB-178 | 37.01 | | 1.0098 | 1.0099 | +0.2 | 2.84E+06 | 1.03 | 0.46 | 91.3 % | 10% | 145% |
| | | | | | | | | | | | |
| JS PCB-9 | 15.85 | | | | | 1.15E+07 | 1.49 | | | | |
| JS PCB-52 | 23.85 | | | | | 9.49E+06 | 0.73 | | | | |
| JS PCB-101 | 29.78 | | | | | 7.43E+06 | 1.47 | | | | |
| JS PCB-138 | 36.65 | | | | | 6.73E+06 | 1.27 | | | | |
| JS PCB-194 | 46.74 | | | | | 5.80E+06 | 0.88 | | | | |
| | | | | | | Totals | NON-EMPC | EMPC | DL | | |
| | | | | | | Mono-CB | 8,120 | 8,120 | 29.8 | | |
| | | | | | | Di-CB | 3,260 | 3,260 | 18.1 | | |
| | | | | | | Tri-CB | 2,070 | 2,170 | 16.3 | | |
| | | | | | | Tetra-CB | 1,920 | 2,110 | 10.6 | | |
| | | | | | | Penta-CB | 2,660 | 3,250 | 8.38 | | |
| | | | | | | Hexa-CB | 6,560 | 6,560 | 6.78 | | |
| | | | | | | Hepta-CB | 3,760 | 3,760 | 10.4 | | |
| | | | | | | Octa-CB | 344 | 692 | 5.41 | | |
| | | | | | | Nona-CB | 0 | 0 | 26.7 | | |

Lab ID: B9770_21382_PCB_002

ACQ: 17-Sep-2024 21:59:22 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#1 Mill On

UTP: 20-Sep-2024 10:52:52 PSW

J-level: 20 pg Split: 2

Checkcode: 519-728-HRG/C

Datafile: 240917S12

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-----------|--------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-1 2-MoCB | 11.47 | | 1.0012 | 1.0011 | -0.1 | 3.42E+06 | 2.97 | 1.47 | 2,480 | 6.29E+03 | 32.3 |
| PCB-2 3-MoCB | 13.52 | | 0.9878 | 0.9879 | +0.1 | 5.72E+06 | 2.90 | 1.32 | 3,510 | 6.29E+03 | 30 |
| PCB-3 4-MoCB | 13.70 | | 1.0010 | 1.0010 | 0 | 3.83E+06 | 3.00 | 1.45 | 2,130 | 6.29E+03 | 27.2 |
| PCB-4 22'-DiCB | 13.97 | B | 1.0012 | 1.0009 | -0.3 | 1.62E+05 | 1.78 | 1.30 | 163 | 2.41E+03 | 20.2 |
| PCB-10 26-DiCB | 14.13 | | 1.0132 | 1.0124 | -0.7 | 3.51E+04 | SI | 1.56 | 29.2 | 2.41E+03 | 16.7 |
| PCB-9 25-DiCB | 15.87 | | 1.0010 | 1.0010 | 0 | 1.11E+05 | SI | 1.18 | 55.6 | 4.06E+03 | 17.9 |
| PCB-7 24-DiCB | 16.02 | B | 1.0110 | 1.0110 | 0 | 1.36E+05 | SI | 1.04 | 77.7 | 4.06E+03 | 20.3 |
| PCB-6 23'-DiCB | 16.26 | B | 1.0257 | 1.0259 | +0.2 | 2.44E+05 | 1.45 | 1.20 | 119 | 4.06E+03 | 17.5 |
| PCB-5 23-DiCB | 16.55 | | 1.0444 | 1.0442 | -0.2 | 1.37E+05 | SI | 0.99 | 82.3 | 4.06E+03 | 21.4 |
| PCB-8 24'-DiCB | 16.67 | B | 1.0517 | 1.0518 | +0.1 | 5.73E+05 | 1.48 | 1.27 | 266 | 4.06E+03 | 16.6 |
| PCB-14 35-DiCB | 18.18 | | 0.9312 | 0.9314 | +0.2 | 1.57E+05 | SI | 1.04 | 89.5 | 4.06E+03 | 20.3 |
| PCB-11 33'-DiCB | 18.96 | B | 0.9713 | 0.9713 | 0 | 3.49E+06 | 1.49 | 1.12 | 1,830 | 4.06E+03 | 18.8 |
| PCB-13/12 34'/34-DiCB | 19.26 | C | 0.9860 | 0.9864 | +0.5 | 7.07E+05 | 1.52 | 1.01 | 412 | 4.06E+03 | 20.8 |
| PCB-15 44'-DiCB | 19.54 | B | 1.0008 | 1.0009 | +0.1 | 2.88E+05 | 1.70 | 1.31 | 130 | 4.06E+03 | 16.1 |
| PCB-19 22'6-TrCB | 16.97 | | 1.0010 | 1.0015 | +0.5 | 5.10E+04 | 1.06 | 1.16 | 43.4 | 2.90E+03 | 20.6 |
| PCB-30/18 246/22'5-TrCB | 18.69 | B C | 1.1015 | 1.1030 | +1.7 | 4.00E+05 | 1.09 | 1.43 | 277 | 2.90E+03 | 16.8 |
| PCB-17 22'4-TrCB | 19.07 | B | 1.1254 | 1.1254 | 0 | 1.72E+05 | 0.98 | 0.99 | 171 | 2.90E+03 | 24.2 |
| PCB-27 23'6-TrCB | 19.27 | EMPC | 1.1371 | 1.1372 | +0.1 | 3.91E+04 | 0.82 | 1.42 | 27.3 | 2.90E+03 | 17 |
| PCB-24 236-TrCB | ND | | 1.1444 | | | | | 1.43 | ND | 2.90E+03 | 16.8 |
| PCB-16 22'3-TrCB | 19.50 | | 1.1508 | 1.1509 | +0.1 | 1.55E+05 | 1.04 | 0.94 | 164 | 2.90E+03 | 25.6 |
| PCB-32 24'6-TrCB | 19.97 | B | 1.1782 | 1.1783 | +0.1 | 1.60E+05 | 0.97 | 1.55 | 102 | 2.90E+03 | 15.5 |
| PCB-34 23'5'-TrCB | ND | | 0.8181 | | | | | 1.17 | ND | 2.90E+03 | 14.7 |
| PCB-23 235-TrCB | ND | | 0.8235 | | | | | 1.16 | ND | 2.90E+03 | 14.8 |
| PCB-26/29 23'5/245-TrCB | 21.51 | B C | 0.8347 | 0.8342 | -0.6 | 1.48E+05 | 0.91 | 1.19 | 74.7 | 2.90E+03 | 14.5 |
| PCB-25 23'4-TrCB | 21.71 | EMPC | 0.8426 | 0.8423 | -0.4 | 8.56E+04 | 1.23 | 1.43 | 36 | 2.90E+03 | 12.1 |
| PCB-31 24'5-TrCB | 22.00 | B | 0.8534 | 0.8532 | -0.3 | 6.15E+05 | 1.19 | 1.37 | 270 | 2.90E+03 | 12.6 |
| PCB-28/20 244'/233'-TrCB | 22.26 | B C | 0.8642 | 0.8636 | -0.8 | 7.80E+05 | 1.02 | 1.28 | 365 | 2.90E+03 | 13.4 |
| PCB-21/33 234/23'4'-TrCB | 22.48 | B C | 0.8710 | 0.8720 | +1.3 | 5.27E+05 | 1.01 | 1.23 | 257 | 2.90E+03 | 13.9 |
| PCB-22 234'-TrCB | 22.84 | | 0.8859 | 0.8858 | -0.1 | 2.83E+05 | 1.03 | 1.33 | 128 | 2.90E+03 | 12.9 |
| PCB-36 33'5-TrCB | 24.19 | J EMPC | 0.9383 | 0.9384 | +0.1 | 4.01E+04 | 1.33 | 1.38 | 17.5 | 2.90E+03 | 12.5 |
| PCB-39 34'5-TrCB | ND | | 0.9508 | | | | | 1.26 | ND | 2.90E+03 | 13.6 |
| PCB-38 345-TrCB | 25.03 | J EMPC | 0.9709 | 0.9708 | -0.2 | 3.95E+04 | 2.10 | 1.27 | 18.7 | 2.90E+03 | 13.5 |
| PCB-35 33'4-TrCB | 25.44 | B | 0.9867 | 0.9868 | +0.2 | 1.76E+05 | 0.90 | 1.19 | 88.5 | 2.90E+03 | 14.4 |
| PCB-37 344'-TrCB | 25.80 | B | 1.0007 | 1.0007 | 0 | 3.00E+05 | 0.91 | 1.43 | 126 | 2.90E+03 | 12 |
| PCB-54 22'66'-TeCB | ND | | 1.0010 | | | | | 1.52 | ND | 1.38E+03 | 7.36 |
| PCB-50/53 22'46/22'56'-TeCB | 21.76 | J C | 0.9128 | 0.9123 | -0.7 | 4.99E+04 | 0.71 | 0.86 | 35.2 | 1.65E+03 | 11.3 |
| PCB-45 22'36-TeCB | 22.37 | B | 0.9377 | 0.9381 | +0.5 | 6.27E+04 | 0.88 | 0.72 | 52.8 | 1.65E+03 | 13.4 |
| PCB-51 22'46'-TeCB | 22.43 | B EMPC | 0.9403 | 0.9407 | +0.5 | 3.14E+04 | 1.19 | 0.87 | 22 | 1.65E+03 | 11.2 |
| PCB-46 22'36'-TeCB | 22.65 | J | 0.9496 | 0.9499 | +0.4 | 1.71E+04 | 0.71 | 0.68 | 15.2 | 1.65E+03 | 14.2 |
| PCB-52 22'55'-TeCB | 23.87 | B | 1.0010 | 1.0011 | +0.1 | 6.12E+05 | 0.75 | 0.97 | 383 | 1.65E+03 | 9.99 |
| PCB-73 23'5'6-TeCB | ND | | 1.0061 | | | | | 1.19 | ND | 1.65E+03 | 8.17 |

Lab ID: B9770_21382_PCB_002

ACQ: 17-Sep-2024 21:59:22 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#1 Mill On

UTP: 20-Sep-2024 10:52:52 PSW

J-level: 20 pg Split: 2

Checkcode: 519-728-HRG/C

Datafile: 240917S12

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|---------------------------------|-----------|----------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-43 22'35'-TeCB | ND | | 1.0099 | | | | | 0.81 | ND | 1.65E+03 | 11.9 |
| PCB-69/49 23'46/22'45'-TeCB | 24.30 | B C | 1.0177 | 1.0191 | +2.0 | 2.19E+05 | 0.82 | 0.97 | 138 | 1.65E+03 | 10 |
| PCB-48 22'45'-TeCB | 24.56 | | 1.0295 | 1.0297 | +0.3 | 7.42E+04 | 0.77 | 0.83 | 54.6 | 1.65E+03 | 11.7 |
| PCB-44/47/65 ...-TeCB | 24.77 | B C | 1.0386 | 1.0386 | 0 | 5.22E+05 | 0.78 | 0.94 | 336 | 1.65E+03 | 10.3 |
| PCB-59/62/75 ...-TeCB | 25.04 | J EMPC C | 1.0499 | 1.0500 | +0.2 | 3.89E+04 | 1.23 | 1.09 | 21.8 | 1.65E+03 | 8.93 |
| PCB-42 22'34'-TeCB | 25.22 | | 1.0575 | 1.0576 | +0.2 | 9.42E+04 | 0.71 | 0.73 | 78.5 | 1.65E+03 | 13.3 |
| PCB-41 22'34'-TeCB | 25.55 | EMPC | 1.0713 | 1.0714 | +0.2 | 2.74E+04 | 1.14 | 0.63 | 26.5 | 1.65E+03 | 15.4 |
| PCB-71/40 23'4'6/22'33'-TeCB | 25.65 | B C | 1.0755 | 1.0758 | +0.5 | 1.59E+05 | 0.80 | 0.92 | 105 | 1.65E+03 | 10.6 |
| PCB-64 234'6'-TeCB | 25.84 | B | 1.0836 | 1.0837 | +0.2 | 1.63E+05 | 0.69 | 1.11 | 89.5 | 1.65E+03 | 8.75 |
| PCB-72 23'55'-TeCB | ND | | 0.8404 | | | | | 1.20 | ND | 2.73E+03 | 13.4 |
| PCB-68 23'45'-TeCB | ND | | 0.8483 | | | | | 1.13 | ND | 2.73E+03 | 14.2 |
| PCB-57 233'5'-TeCB | ND | | 0.8601 | | | | | 1.14 | ND | 2.73E+03 | 14 |
| PCB-58 233'5'-TeCB | ND | | 0.8668 | | | | | 1.31 | ND | 2.73E+03 | 12.3 |
| PCB-67 23'45'-TeCB | ND | | 0.8713 | | | | | 1.32 | ND | 2.73E+03 | 12.2 |
| PCB-63 234'5'-TeCB | ND | | 0.8785 | | | | | 1.08 | ND | 2.73E+03 | 14.8 |
| PCB-61/70/74/76 ...-TeCB | 28.05 | B C | 0.8878 | 0.8880 | +0.3 | 7.65E+05 | 0.76 | 1.18 | 396 | 2.73E+03 | 13.6 |
| PCB-66 23'44'-TeCB | 28.32 | B | 0.8967 | 0.8966 | -0.2 | 3.45E+05 | 0.81 | 1.23 | 170 | 2.73E+03 | 13 |
| PCB-55 233'4'-TeCB | ND | | 0.9016 | | | | | 1.22 | ND | 2.73E+03 | 13.2 |
| PCB-56 233'4'-TeCB | 28.92 | EMPC | 0.9155 | 0.9153 | -0.3 | 1.35E+05 | 0.99 | 1.20 | 68.3 | 2.73E+03 | 13.4 |
| PCB-60 2344'-TeCB | 29.10 | | 0.9214 | 0.9213 | -0.2 | 1.06E+05 | 0.89 | 1.04 | 62.2 | 2.73E+03 | 15.5 |
| PCB-80 33'55'-TeCB | ND | | 0.9309 | | | | | 1.32 | ND | 2.73E+03 | 12.2 |
| PCB-79 33'45'-TeCB | ND | | 0.9732 | | | | | 1.45 | ND | 2.73E+03 | 11 |
| PCB-78 33'45'-TeCB | ND | | 0.9884 | | | | | 1.18 | ND | 2.73E+03 | 13.6 |
| PCB-104 22'466'-PeCB | ND | | 1.0009 | | | | | 1.46 | ND | 9.39E+02 | 5.84 |
| PCB-96 22'366'-PeCB | ND | | 1.0147 | | | | | 1.19 | ND | 9.39E+02 | 7.19 |
| PCB-103 22'45'6'-PeCB | ND | | 0.8968 | | | | | 0.72 | ND | 1.49E+03 | 13.8 |
| PCB-94 22'356'-PeCB | ND | | 0.9036 | | | | | 0.59 | ND | 1.49E+03 | 16.7 |
| PCB-95 22'35'6'-PeCB | 27.30 | | 0.9167 | 0.9165 | -0.3 | 8.11E+05 | 0.59 | 0.68 | 766 | 1.49E+03 | 14.5 |
| PCB-100/93 22'44'6/22'356'-PeCB | ND | C | 0.9229 | | | | | 0.65 | ND | 1.49E+03 | 15.2 |
| PCB-102 22'456'-PeCB | 27.59 | J | 0.9269 | 0.9264 | -0.8 | 1.60E+04 | 0.62 | 0.85 | 12.1 | 1.49E+03 | 11.6 |
| PCB-98 22'34'6'-PeCB | ND | | 0.9292 | | | | | 0.72 | ND | 1.49E+03 | 13.7 |
| PCB-88 22'346'-PeCB | ND | | 0.9390 | | | | | 0.61 | ND | 1.49E+03 | 16.2 |
| PCB-91 22'34'6'-PeCB | 28.05 | | 0.9416 | 0.9418 | +0.3 | 6.50E+04 | 0.64 | 0.72 | 58.2 | 1.49E+03 | 13.8 |
| PCB-84 22'33'6'-PeCB | 28.25 | B | 0.9486 | 0.9486 | 0 | 1.13E+05 | 0.60 | 0.57 | 127 | 1.49E+03 | 17.4 |
| PCB-89 22'346'-PeCB | ND | | 0.9623 | | | | | 0.69 | ND | 1.49E+03 | 14.3 |
| PCB-121 23'45'6'-PeCB | ND | | 0.9725 | | | | | 1.05 | ND | 1.49E+03 | 9.42 |
| PCB-92 22'355'-PeCB | 29.30 | B EMPC | 0.9839 | 0.9839 | 0 | 1.01E+05 | 0.72 | 0.68 | 94.8 | 1.49E+03 | 14.4 |
| PCB-113/90/101 ...-PeCB | 29.80 | C | 0.9999 | 1.0007 | +1.4 | 1.10E+06 | 0.62 | 0.81 | 870 | 1.49E+03 | 12.2 |
| PCB-83 22'33'5'-PeCB | 30.18 | EMPC | 1.0148 | 1.0132 | -2.9 | 2.29E+04 | 0.50 | 0.59 | 24.9 | 1.49E+03 | 16.7 |
| PCB-99 22'44'5'-PeCB | 30.29 | B | 1.0174 | 1.0171 | -0.5 | 2.22E+05 | 0.53 | 0.94 | 151 | 1.49E+03 | 10.5 |
| PCB-112 233'56'-PeCB | ND | | 1.0210 | | | | | 1.13 | ND | 1.49E+03 | 8.73 |

Lab ID: B9770_21382_PCB_002

ACQ: 17-Sep-2024 21:59:22 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#1 Mill On

UTP: 20-Sep-2024 10:52:52 PSW

J-level: 20 pg Split: 2

Checkcode: 519-728-HRG/C

Datafile: 240917S12

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------------|--------------|----------|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-109/119/86/97/125...-PeCB | 30.80 | B EMPC C | 1.0327 | 1.0341 | +2.6 | 3.84E+05 | 0.72 | 0.89 | 277 | 1.49E+03 | 11.1 |
| PCB-117 234'56-PeCB | ND | | 1.0504 | | | | | 0.95 | ND | 1.49E+03 | 10.4 |
| PCB-116/85 23456/22'344'-PeCB | 31.38 | EMPC C | 1.0533 | 1.0535 | +0.4 | 5.37E+04 | 0.73 | 0.84 | 41 | 1.49E+03 | 11.8 |
| PCB-110 233'4'6-PeCB | 31.51 | B | 1.0579 | 1.0580 | +0.2 | 7.58E+05 | 0.64 | 1.12 | 433 | 1.49E+03 | 8.79 |
| PCB-115 2344'6-PeCB | ND | | 1.0600 | | | | | 1.11 | ND | 1.49E+03 | 8.88 |
| PCB-82 22'33'4-PeCB | 31.78 | EMPC | 1.0675 | 1.0672 | -0.6 | 3.61E+04 | 0.78 | 0.72 | 32.3 | 1.49E+03 | 13.7 |
| PCB-111 233'55'-PeCB | ND | | 1.0770 | | | | | 1.00 | ND | 1.49E+03 | 9.84 |
| PCB-120 23'455'-PeCB | ND | | 1.0902 | | | | | 1.22 | ND | 1.49E+03 | 8.1 |
| PCB-108/124 ...-PeCB | ND | C | 0.9915 | | | | | 1.03 | ND | 1.49E+03 | 9.63 |
| PCB-107 233'4'5-PeCB | 33.66 | B EMPC | 0.9975 | 0.9976 | +0.2 | 3.60E+04 | 0.75 | 1.08 | 21.3 | 1.49E+03 | 9.11 |
| PCB-106 233'45-PeCB | ND | | 1.0038 | | | | | 1.07 | ND | 1.49E+03 | 9.22 |
| PCB-122 233'4'5'-PeCB | ND | | 1.0096 | | | | | 0.82 | ND | 1.49E+03 | 13.1 |
| PCB-127 33'455'-PeCB | ND | | 1.0352 | | | | | 1.05 | ND | 1.49E+03 | 10.8 |
| PCB-155 22'44'66'-HxCB | ND | | 1.0007 | | | | | 1.36 | ND | 6.51E+02 | 3.33 |
| PCB-152 22'3566'-HxCB | ND | | 1.0075 | | | | | 1.16 | ND | 6.51E+02 | 3.9 |
| PCB-150 22'34'66'-HxCB | ND | | 1.0119 | | | | | 1.00 | ND | 6.51E+02 | 4.51 |
| PCB-136 22'33'66'-HxCB | 30.26 | | 1.0230 | 1.0230 | 0 | 4.78E+05 | 1.23 | 0.97 | 359 | 6.51E+02 | 4.67 |
| PCB-145 22'3466'-HxCB | ND | | 1.0313 | | | | | 1.09 | ND | 6.51E+02 | 4.13 |
| PCB-148 22'34'56'-HxCB | ND | | 1.0735 | | | | | 1.00 | ND | 6.51E+02 | 5.93 |
| PCB-151/135 ...-HxCB | 32.28 | C | 1.0919 | 1.0913 | -1.2 | 9.81E+05 | 1.36 | 0.98 | 846 | 6.51E+02 | 6.04 |
| PCB-154 22'44'56'-HxCB | ND | | 1.0979 | | | | | 1.06 | ND | 6.51E+02 | 5.59 |
| PCB-144 22'345'6-HxCB | 32.76 | | 1.1074 | 1.1076 | +0.4 | 1.36E+05 | 1.38 | 0.99 | 116 | 6.51E+02 | 5.97 |
| PCB-147/149 ...-HxCB | 33.06 | C | 1.1177 | 1.1178 | +0.2 | 1.85E+06 | 1.32 | 1.08 | 1,450 | 6.51E+02 | 5.47 |
| PCB-134 22'33'56-HxCB | ND | | 1.1238 | | | | | 0.78 | ND | 6.51E+02 | 7.58 |
| PCB-143 22'3456'-HxCB | ND | | 1.1264 | | | | | 0.97 | ND | 6.51E+02 | 6.09 |
| PCB-139/140 ...-HxCB | ND | C | 1.1348 | | | | | 1.03 | ND | 6.51E+02 | 5.72 |
| PCB-131 22'33'46-HxCB | ND | | 1.1412 | | | | | 0.91 | ND | 6.51E+02 | 6.5 |
| PCB-142 22'3456-HxCB | ND | | 1.1457 | | | | | 0.89 | ND | 6.51E+02 | 6.65 |
| PCB-132 22'33'46'-HxCB | 34.15 | | 1.1544 | 1.1544 | 0 | 4.75E+05 | 1.32 | 0.94 | 426 | 6.51E+02 | 6.29 |
| PCB-133 22'33'55'-HxCB | ND | | 1.1672 | | | | | 1.03 | ND | 6.51E+02 | 5.74 |
| PCB-165 233'55'6-HxCB | ND | | 0.9512 | | | | | 1.23 | ND | 6.51E+02 | 4.8 |
| PCB-146 22'34'55'-HxCB | 35.08 | | 0.9571 | 0.9572 | +0.2 | 2.49E+05 | 1.21 | 1.17 | 179 | 6.51E+02 | 5.05 |
| PCB-161 233'45'6-HxCB | ND | | 0.9601 | | | | | 1.42 | ND | 6.51E+02 | 4.15 |
| PCB-153/168 ...-HxCB | 35.60 | C | 0.9718 | 0.9714 | -0.9 | 1.90E+06 | 1.23 | 1.27 | 1,260 | 6.51E+02 | 4.65 |
| PCB-141 22'3455'-HxCB | 35.78 | | 0.9762 | 0.9763 | +0.2 | 4.42E+05 | 1.20 | 0.96 | 390 | 6.51E+02 | 6.18 |
| PCB-130 22'33'45'-HxCB | ND | | 0.9857 | | | | | 0.83 | ND | 6.51E+02 | 7.1 |
| PCB-137 22'344'5-HxCB | ND | | 0.9909 | | | | | 1.01 | ND | 6.51E+02 | 5.84 |
| PCB-164 233'4'5'6-HxCB | 36.40 | | 0.9935 | 0.9933 | -0.4 | 1.26E+05 | 1.19 | 1.33 | 80.2 | 6.51E+02 | 4.46 |
| PCB-163/138/129 ...-HxCB | 36.67 | C | 1.0011 | 1.0007 | -0.9 | 1.42E+06 | 1.24 | 1.03 | 1,160 | 6.51E+02 | 5.72 |
| PCB-160 233'456-HxCB | ND | | 1.0045 | | | | | 1.20 | ND | 6.51E+02 | 4.92 |
| PCB-158 233'44'6-HxCB | 37.00 | B | 1.0096 | 1.0096 | 0 | 1.67E+05 | 1.28 | 1.35 | 104 | 6.51E+02 | 4.36 |

Lab ID: B9770_21382_PCB_002

ACQ: 17-Sep-2024 21:59:22 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#1 Mill On

UTP: 20-Sep-2024 10:52:52 PSW

J-level: 20 pg Split: 2

Checkcode: 519-728-HRG/C

Datafile: 240917S12

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

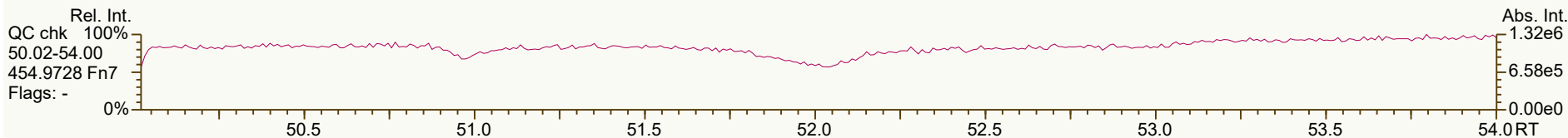
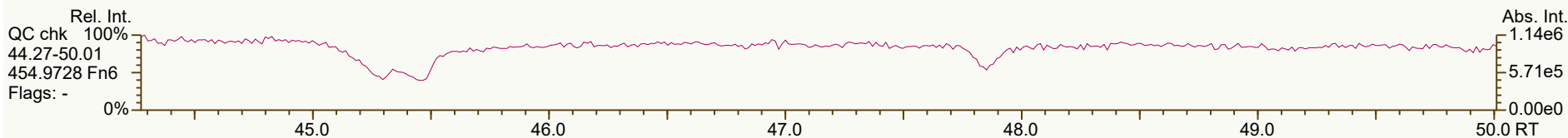
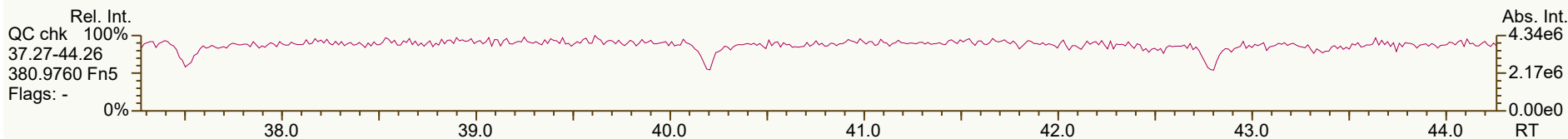
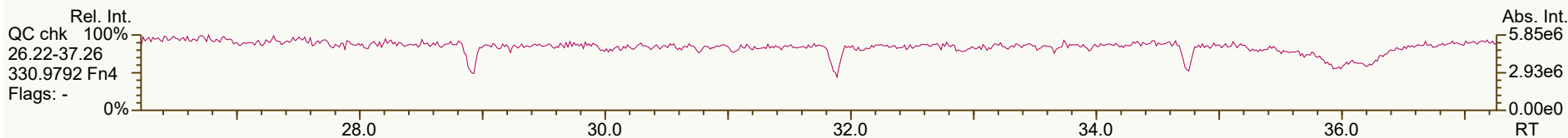
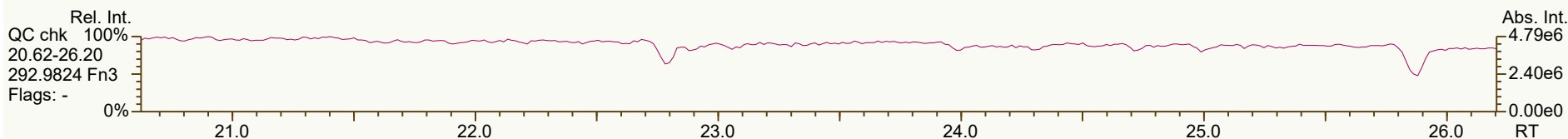
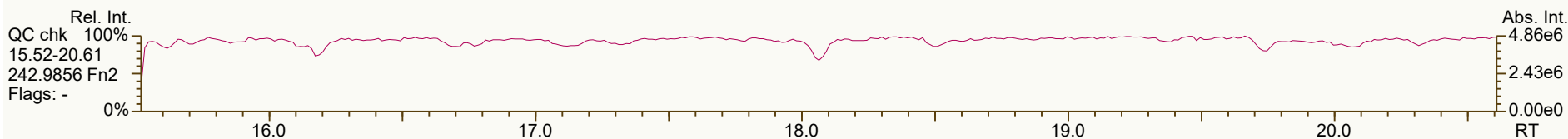
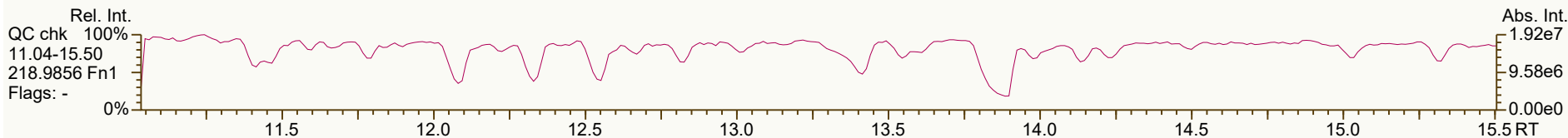
Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-------------------|--------|-------------------|-------------------|--------------|---------------------|-----------------|-----------------|-------------------|-------------------|-----------------|
| PCB-128/166 ...-HxCB | 37.77 | C | 0.9635 | 0.9644 | +2.0 | 1.21E+05 | 1.16 | 0.88 | 85.3 | 1.17E+03 | 8.9 |
| PCB-159 233'455'-HxCB | 38.53 | | 0.9840 | 0.9838 | -0.5 | 4.89E+04 | 1.27 | 1.16 | 26.2 | 1.17E+03 | 6.75 |
| PCB-162 233'4'55'-HxCB | ND | | 0.9902 | | | | | 0.99 | ND | 1.17E+03 | 7.92 |
| PCB-188 22'34'566'-HpCB | ND | | 1.0006 | | | | | 1.55 | ND | 6.72E+02 | 4.18 |
| PCB-179 22'33'566'-HpCB | 34.77 | | 1.0095 | 1.0097 | +0.4 | 3.89E+05 | 1.07 | 1.32 | 292 | 6.72E+02 | 4.92 |
| PCB-184 22'344'66'-HpCB | ND | | 1.0219 | | | | | 1.20 | ND | 6.72E+02 | 5.38 |
| PCB-176 22'33'466'-HpCB | 35.51 | | 1.0312 | 1.0312 | 0 | 1.20E+05 | 0.95 | 1.13 | 105 | 6.72E+02 | 5.72 |
| PCB-186 22'34566'-HpCB | ND | | 1.0427 | | | | | 1.35 | ND | 6.72E+02 | 4.78 |
| PCB-178 22'33'55'6'-HpCB | 37.03 | | 1.0752 | 1.0751 | -0.2 | 1.42E+05 | 0.97 | 0.90 | 156 | 6.72E+02 | 7.22 |
| PCB-175 22'33'45'6'-HpCB | ND | | 1.0908 | | | | | 0.96 | ND | 1.92E+03 | 15.5 |
| PCB-187 22'34'55'6'-HpCB | 37.79 | | 1.0974 | 1.0974 | 0 | 1.17E+06 | 0.93 | 1.18 | 722 | 1.92E+03 | 12.7 |
| PCB-182 22'344'56'-HpCB | ND | | 1.1024 | | | | | 1.13 | ND | 1.92E+03 | 13.2 |
| PCB-183 22'344'5'6'-HpCB | 38.31 | | 1.1124 | 1.1124 | 0 | 4.99E+05 | 1.09 | 1.07 | 339 | 1.92E+03 | 14 |
| PCB-185 22'3455'6'-HpCB | 38.40 | | 1.1152 | 1.1150 | -0.5 | 1.10E+05 | 1.11 | 0.92 | 86.9 | 1.92E+03 | 16.2 |
| PCB-174 22'33'456'-HpCB | 38.52 | | 1.1187 | 1.1186 | -0.2 | 8.35E+05 | 0.98 | 1.02 | 591 | 1.92E+03 | 14.6 |
| PCB-177 22'33'45'6'-HpCB | 38.89 | | 1.1296 | 1.1293 | -0.7 | 3.45E+05 | 0.99 | 1.03 | 244 | 1.92E+03 | 14.6 |
| PCB-181 22'344'56'-HpCB | ND | | 1.1391 | | | | | 1.08 | ND | 1.92E+03 | 13.8 |
| PCB-171/173 ...-HpCB | 39.43 | C | 1.1447 | 1.1448 | +0.2 | 1.60E+05 | 1.09 | 0.91 | 127 | 1.92E+03 | 16.4 |
| PCB-172 22'33'455'-HpCB | 40.76 | | 0.9065 | 0.9065 | 0 | 7.65E+04 | 1.12 | 0.96 | 57.6 | 1.92E+03 | 15.5 |
| PCB-192 233'455'6'-HpCB | ND | | 0.9118 | | | | | 1.39 | ND | 1.92E+03 | 10.8 |
| PCB-180/193 ...-HpCB | 41.31 | C | 0.9181 | 0.9187 | +1.5 | 1.24E+06 | 0.99 | 1.15 | 782 | 1.92E+03 | 13 |
| PCB-191 233'44'5'6'-HpCB | ND | | 0.9253 | | | | | 1.24 | ND | 1.92E+03 | 12.1 |
| PCB-170 22'33'44'5'-HpCB | 42.39 | | 0.9427 | 0.9427 | 0 | 2.85E+05 | 1.00 | 1.04 | 225 | 1.92E+03 | 15.5 |
| PCB-190 233'44'56'-HpCB | 42.84 | | 0.9525 | 0.9526 | +0.3 | 6.62E+04 | 1.03 | 1.43 | 37.8 | 1.92E+03 | 11.2 |
| PCB-202 22'33'55'66'-OcCB | 38.98 | | 1.0005 | 1.0006 | +0.2 | 1.27E+05 | 0.86 | 1.32 | 69.9 | 7.51E+02 | 4.2 |
| PCB-201 22'33'45'66'-OcCB | 39.77 | EMPC | 1.0204 | 1.0207 | +0.7 | 7.33E+04 | 1.08 | 0.95 | 56.1 | 7.51E+02 | 5.82 |
| PCB-204 22'344'566'-OcCB | ND | | 1.0349 | | | | | 1.09 | ND | 7.51E+02 | 5.07 |
| PCB-197 22'33'44'66'-OcCB | 40.50 | J | 1.0399 | 1.0395 | -1.0 | 2.45E+04 | 0.93 | 1.04 | 17.2 | 7.51E+02 | 5.34 |
| PCB-200 22'33'4566'-OcCB | 40.62 | | 1.0428 | 1.0427 | -0.2 | 8.42E+04 | 0.79 | 0.98 | 62.7 | 7.51E+02 | 5.67 |
| PCB-198/199 ...-OcCB | 42.96 | C | 1.1020 | 1.1026 | +1.5 | 2.33E+05 | 0.87 | 0.88 | 194 | 7.51E+02 | 6.33 |
| PCB-196 22'33'44'56'-OcCB | 43.50 | EMPC | 1.1166 | 1.1166 | 0 | 8.47E+04 | 0.74 | 0.78 | 78.7 | 7.51E+02 | 7.06 |
| PCB-203 22'344'55'6'-OcCB | 43.67 | EMPC | 1.1208 | 1.1209 | +0.3 | 1.21E+05 | 0.71 | 0.97 | 91.3 | 7.51E+02 | 5.73 |
| PCB-195 22'33'44'56'-OcCB | 44.80 | EMPC | 0.9499 | 0.9500 | +0.3 | 4.80E+04 | 1.19 | 0.74 | 46.3 | 8.42E+02 | 10 |
| PCB-194 22'33'44'55'-OcCB | 46.76 | EMPC | 0.9914 | 0.9915 | +0.3 | 7.95E+04 | 1.17 | 0.81 | 70 | 8.42E+02 | 9.13 |
| PCB-205 233'44'55'6'-OcCB | 47.19 | J EMPC | 1.0004 | 1.0005 | +0.3 | 9.98E+03 | 0.69 | 1.12 | 6.36 | 8.42E+02 | 6.61 |
| PCB-208 22'33'455'66'-NoCB | ND | | 1.0005 | | | | | 1.11 | ND | 3.08E+03 | 20.1 |
| PCB-207 22'33'44'566'-NoCB | ND | | 1.0180 | | | | | 0.90 | ND | 3.08E+03 | 24.8 |
| PCB-206 22'33'44'55'6'-NoCB | ND | | 1.0005 | | | | | 1.04 | ND | 3.08E+03 | 33.3 |
| AS PCB-32 FS | 19.944 | | 1.2584 | 1.2583 | -0.1 | 6.59E+06 | 1.07 | 0.77 | 74.7 % | 50% | 150% |
| AS PCB-97 FS | 30.724 | V | 1.0317 | 1.0316 | -0.2 | 4.00E+06 | 1.47 | 0.86 | 62.3 % | 50% | 150% |
| AS PCB-159 NR | 38.521 | | 1.0511 | 1.0511 | 0 | 8.29E+06 | 1.07 | 1.57 | 78.3 % | 50% | 150% |
| | | | | | | | | | | 70% | 130% |

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



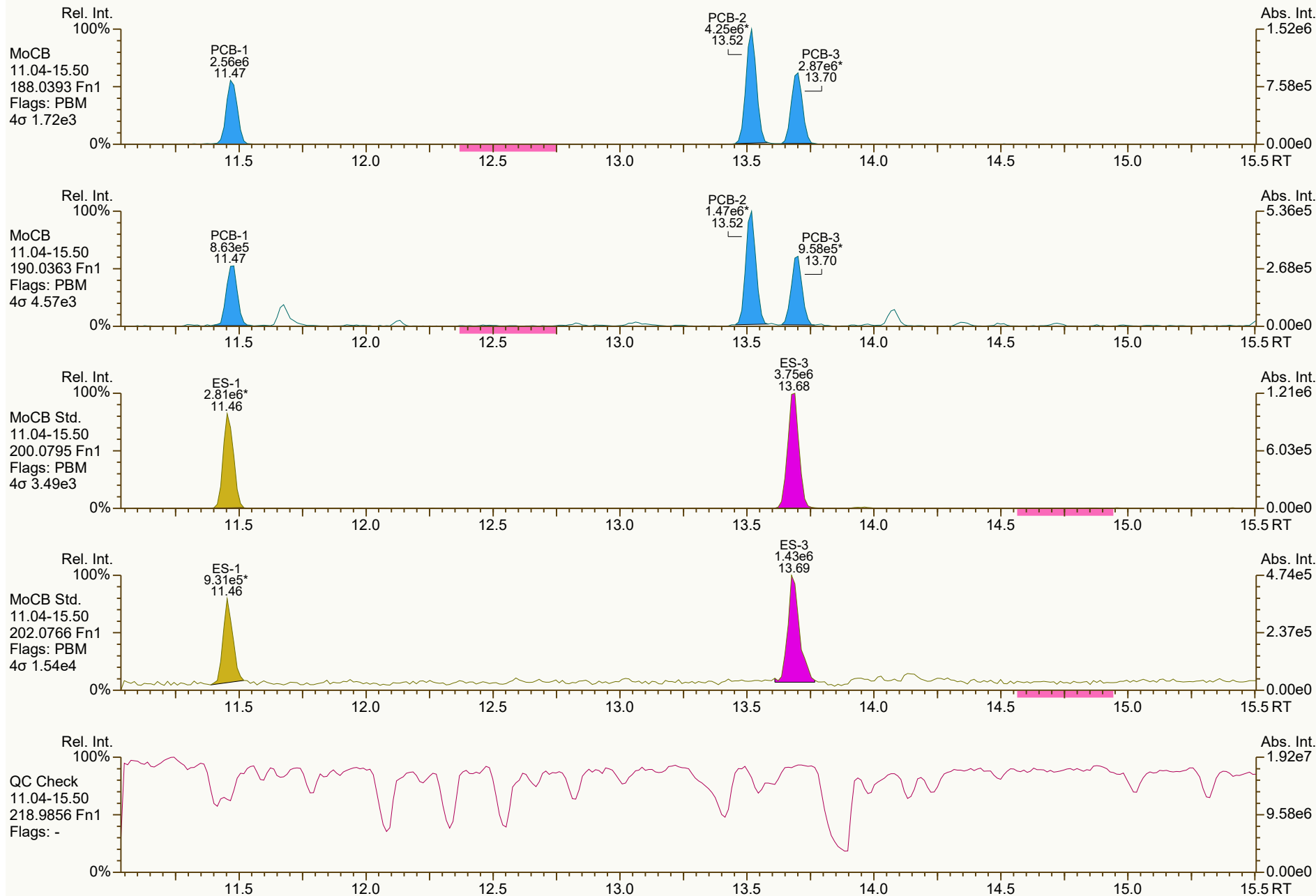
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q scc: 519-728

Peak annotation: Areas, Centroids
PKD: n/a Printed: 20-Sep-2024 11:02 Page 1 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 3964, 9407 scc: 519-728

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 2 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



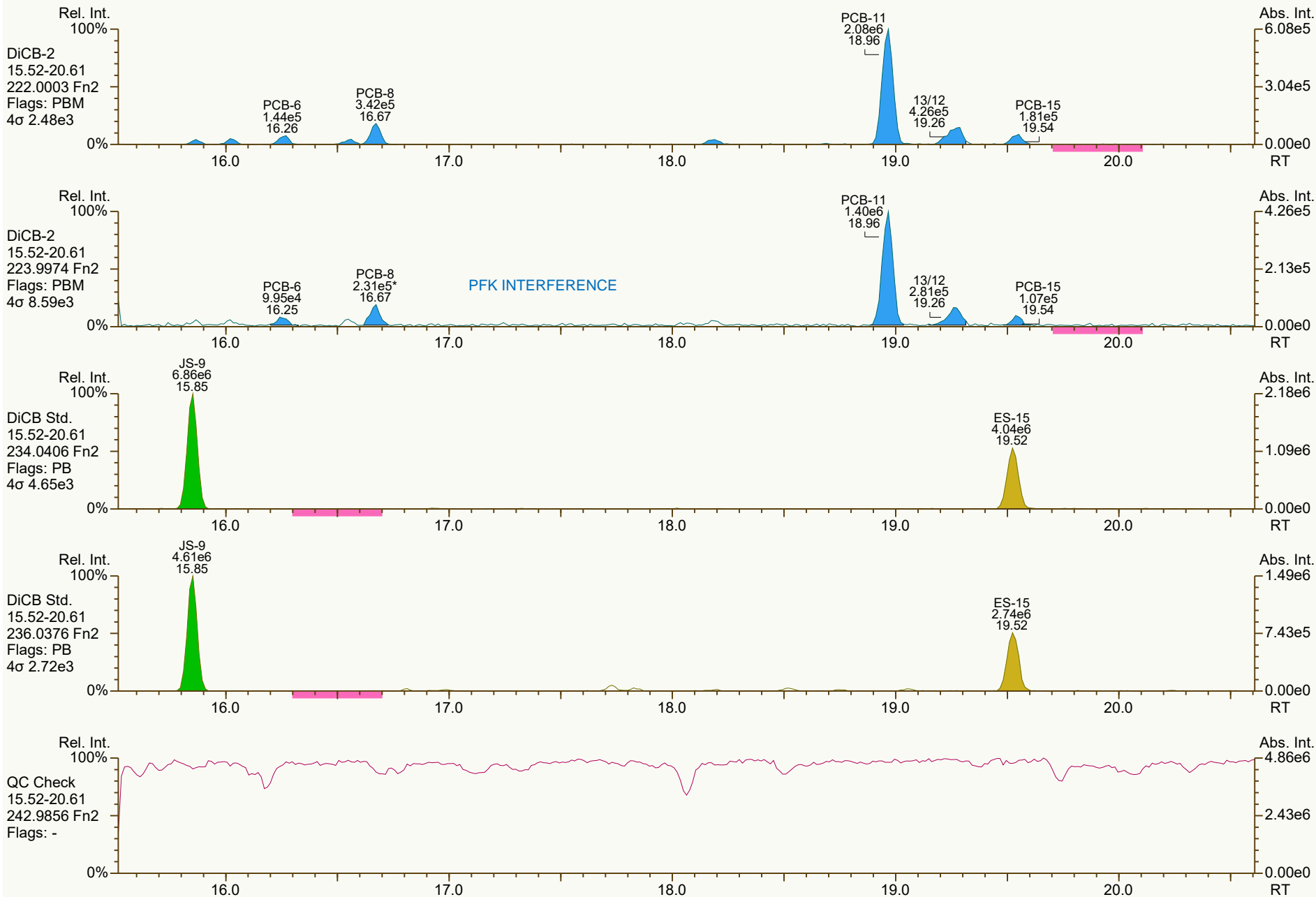
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Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 15:52 (PSW) Printed: 20-Sep-2024 11:02 Page 3 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



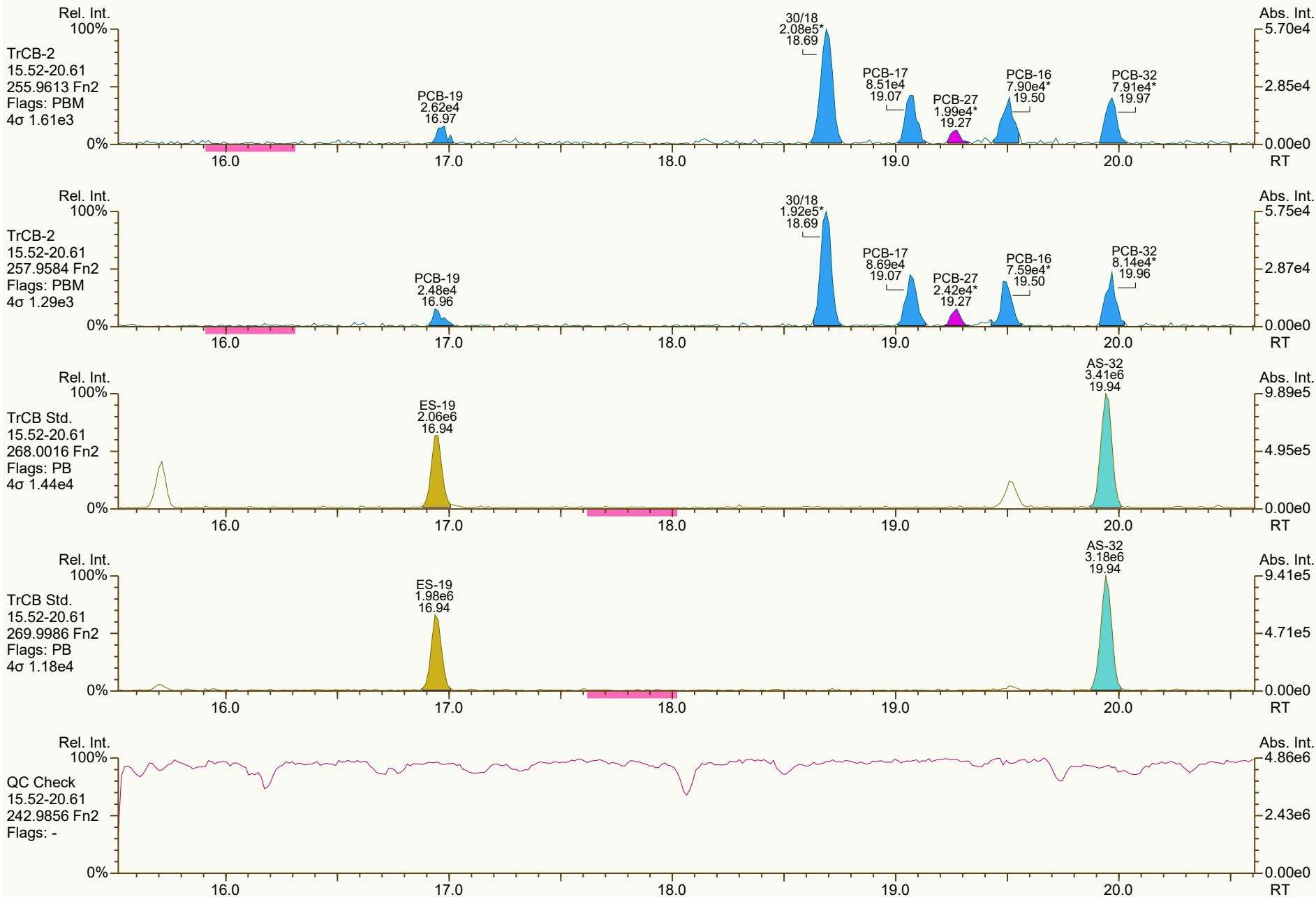
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 4 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



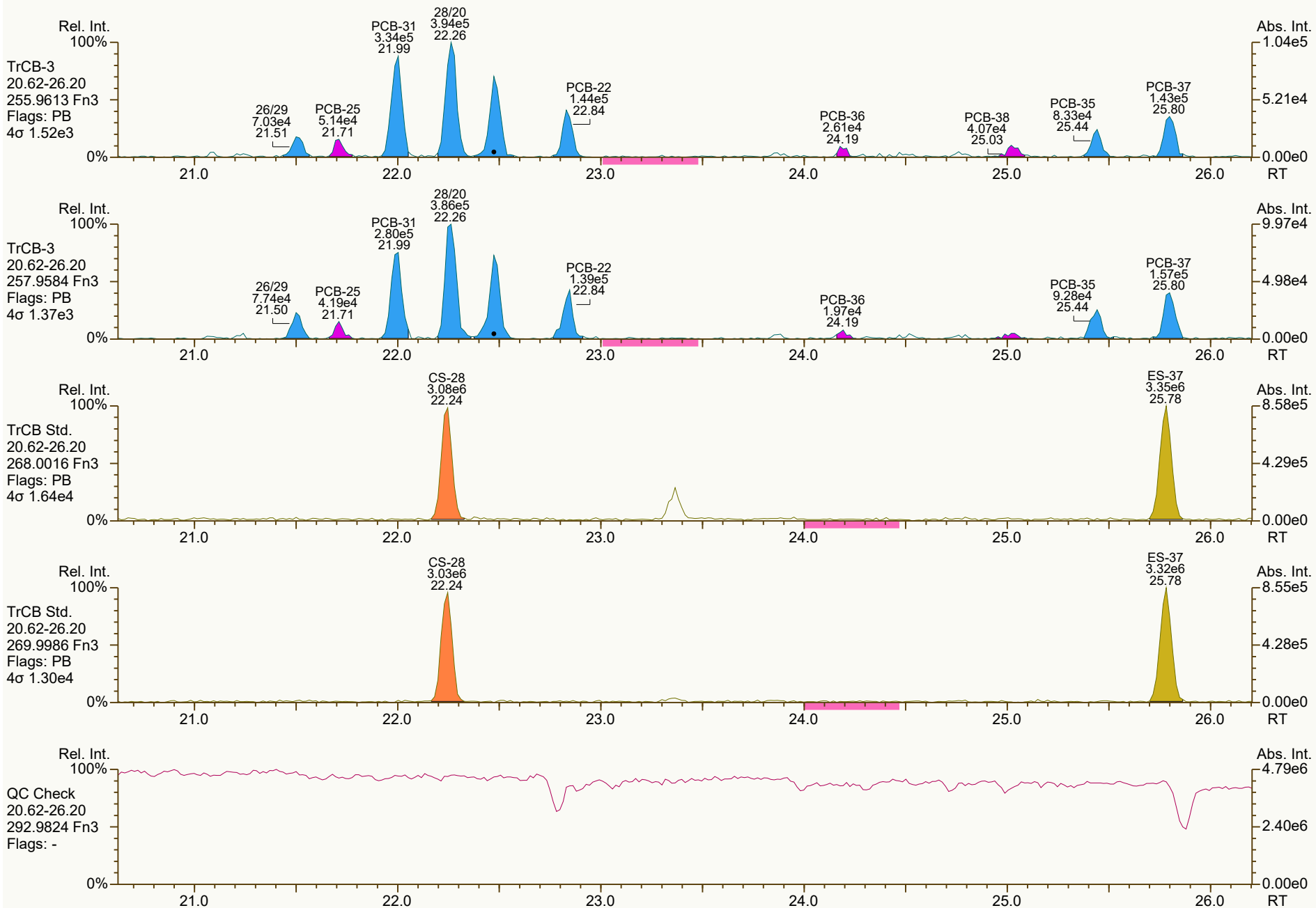
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 5 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



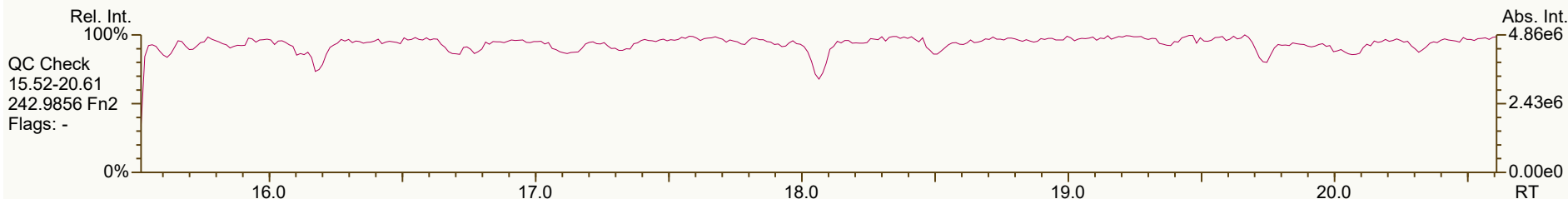
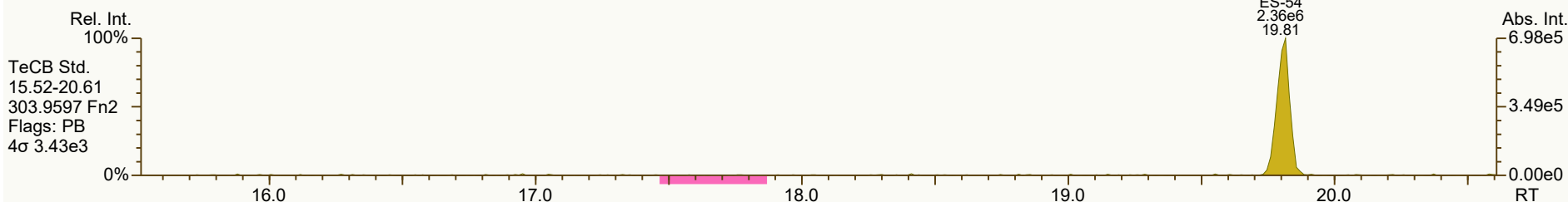
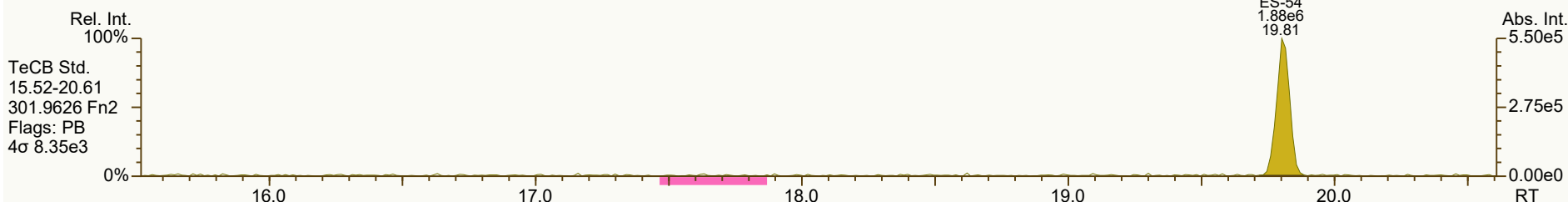
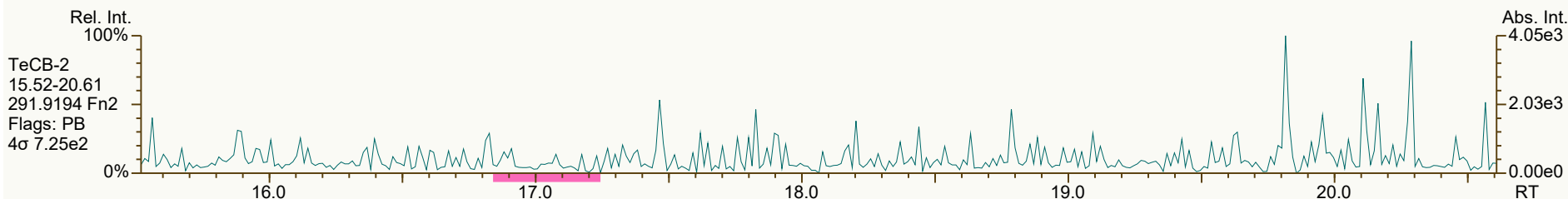
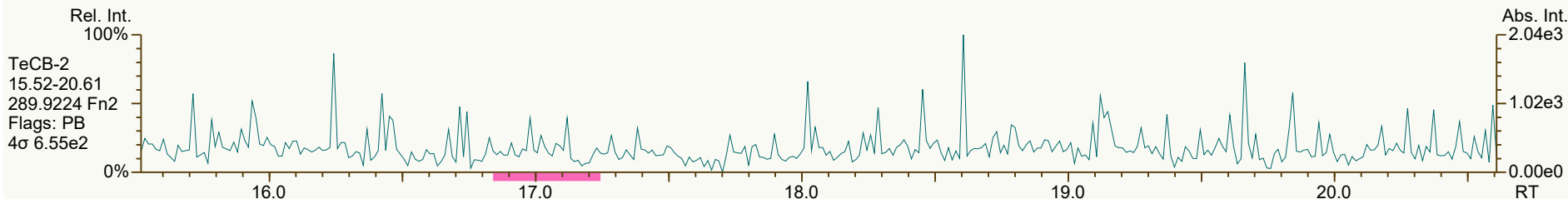
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 6 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



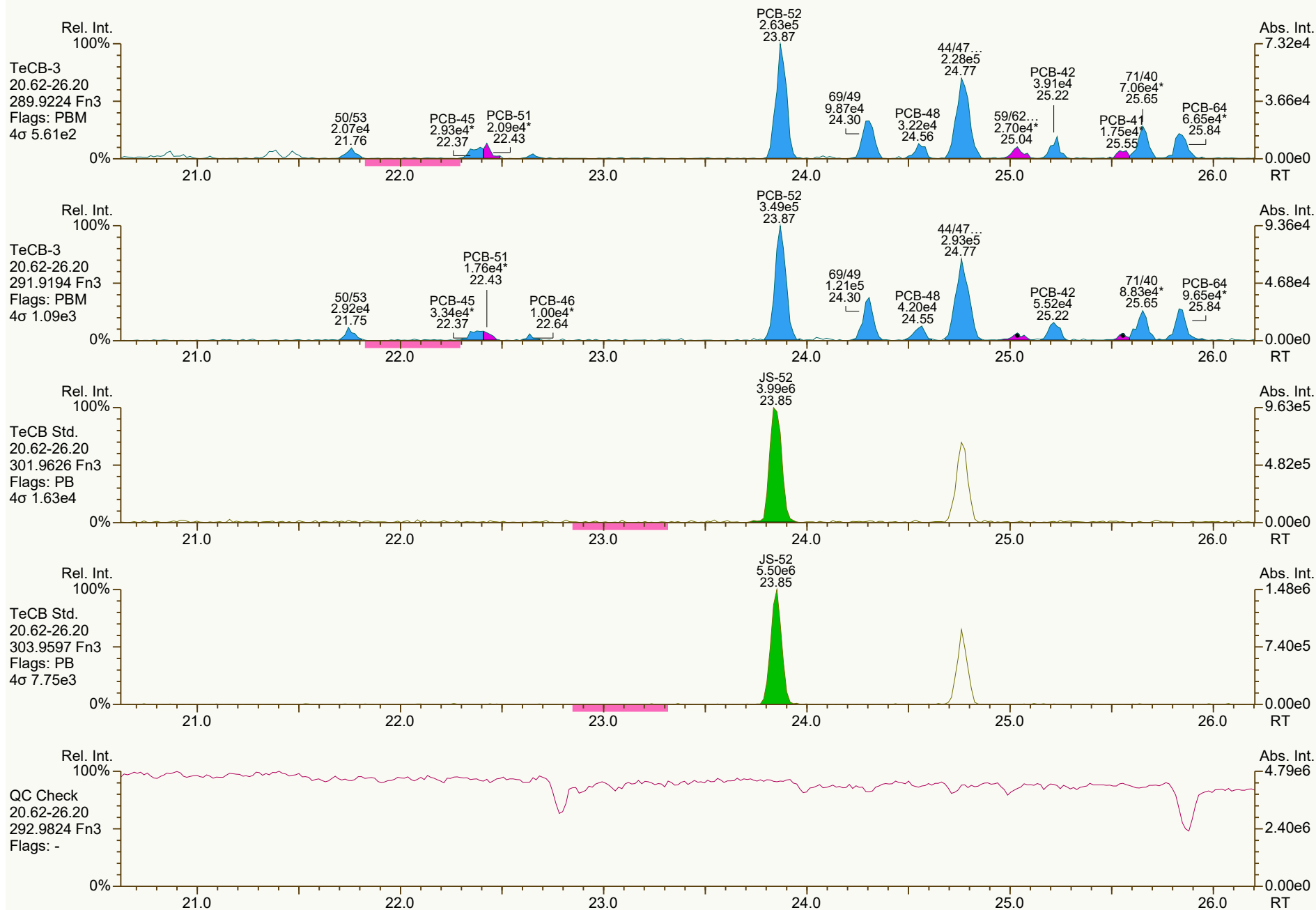
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Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 15:52 (PSW) Printed: 20-Sep-2024 11:02 Page 7 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



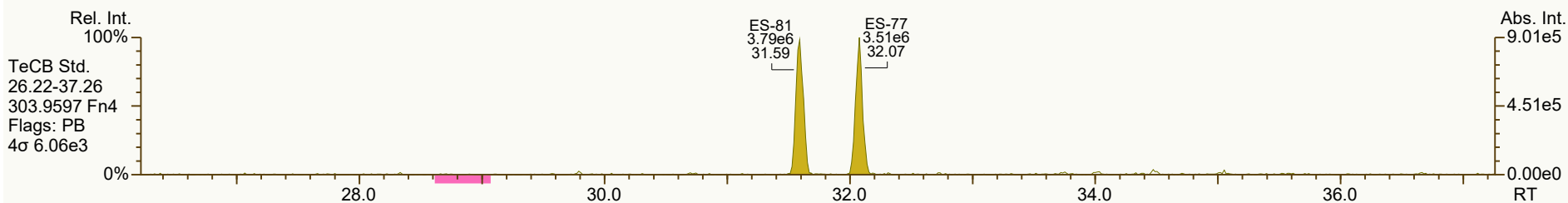
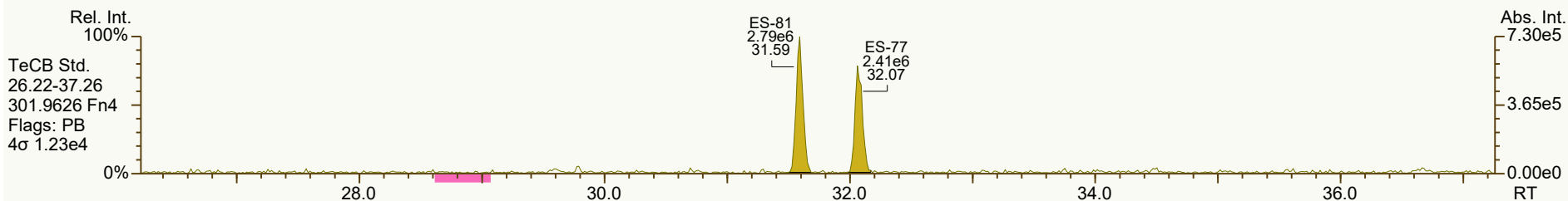
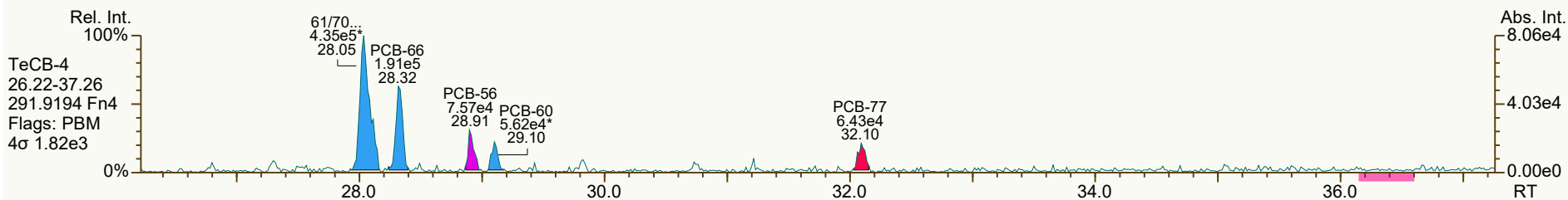
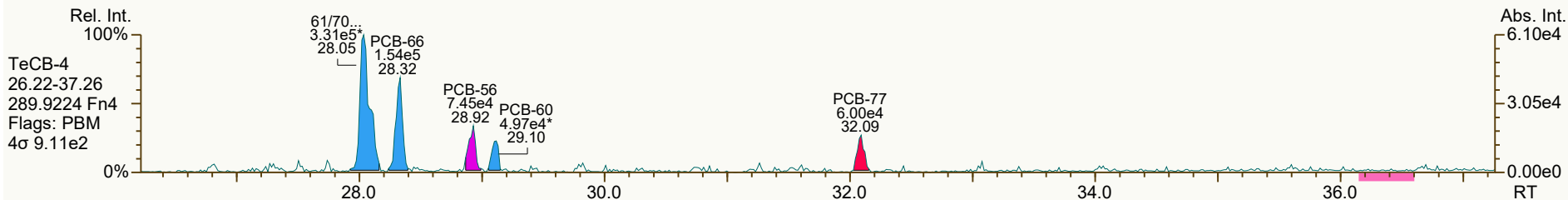
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 8 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

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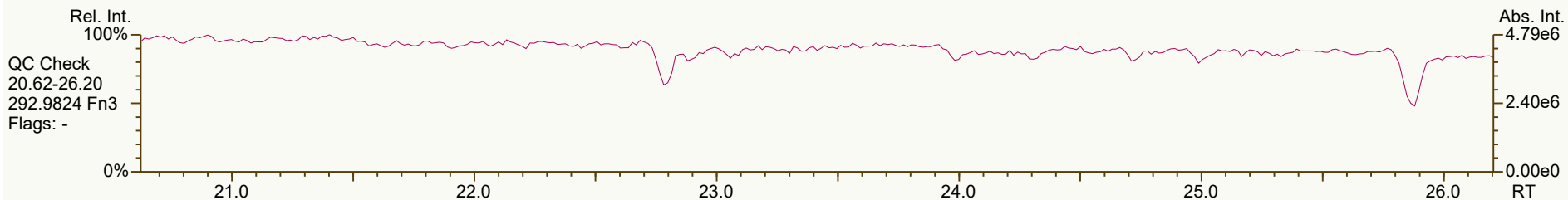
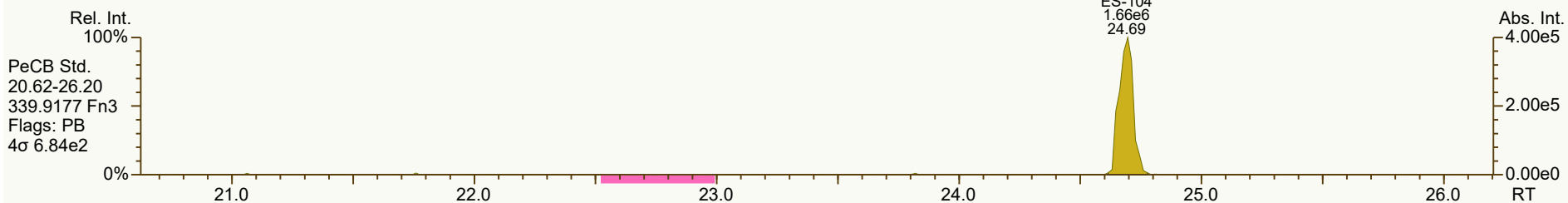
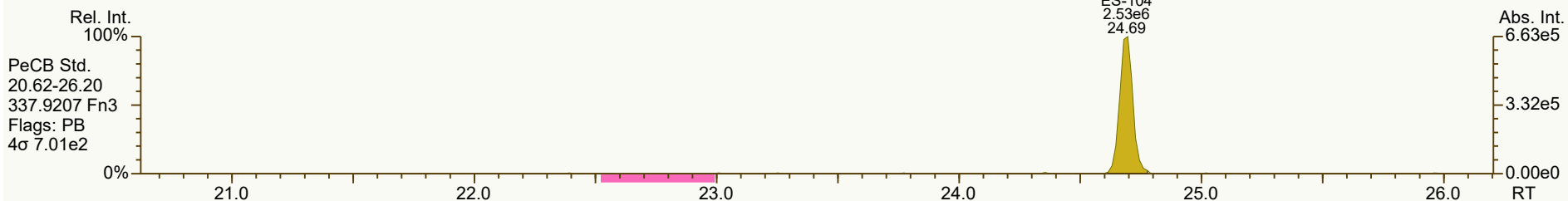
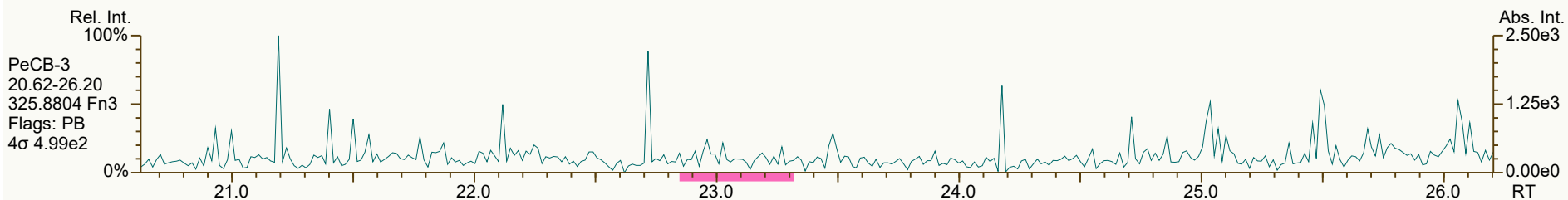
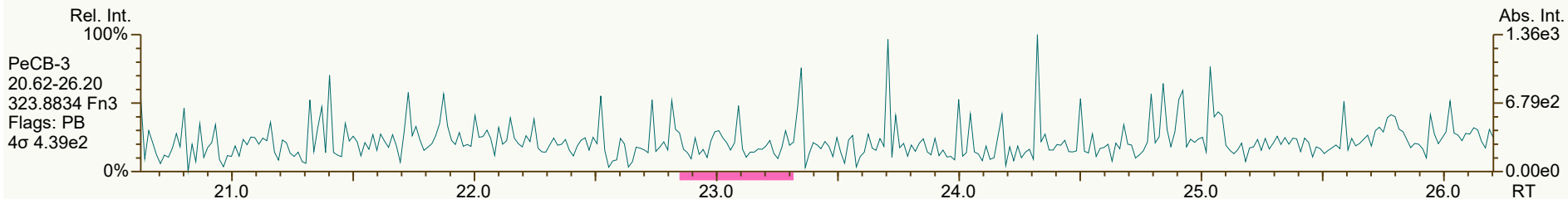
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 9 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

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User: RAB Datafile: 240917S12



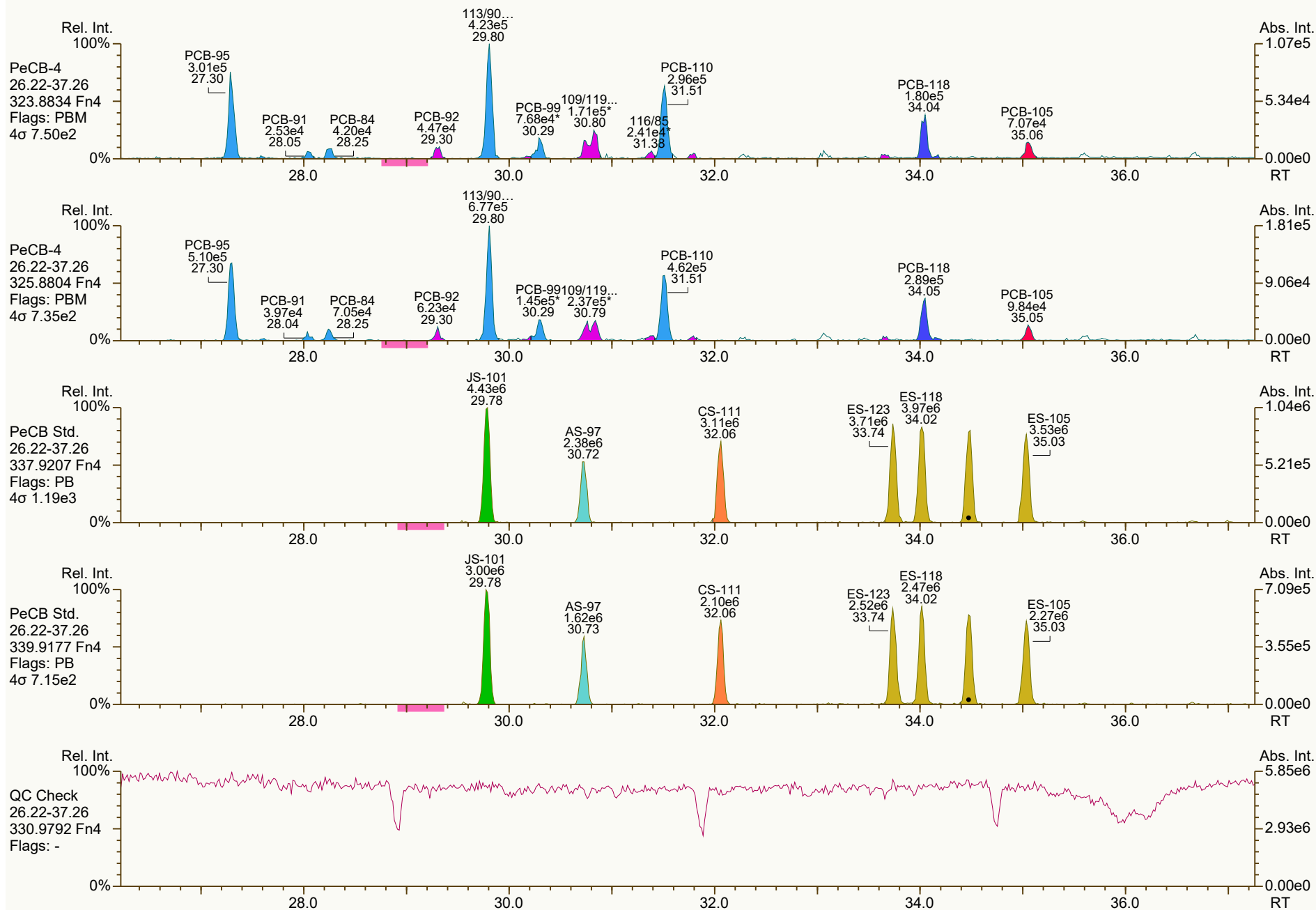
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Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 15:52 (PSW) Printed: 20-Sep-2024 11:02 Page 10 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



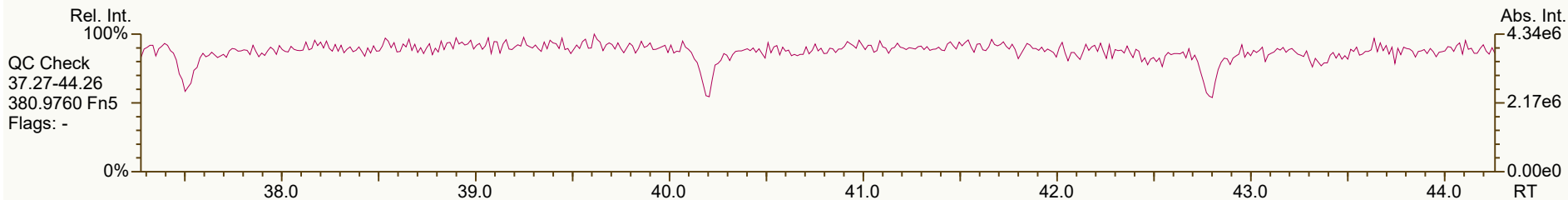
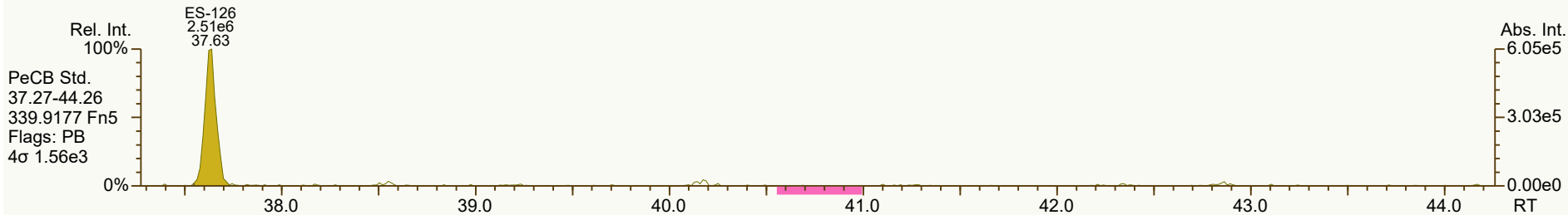
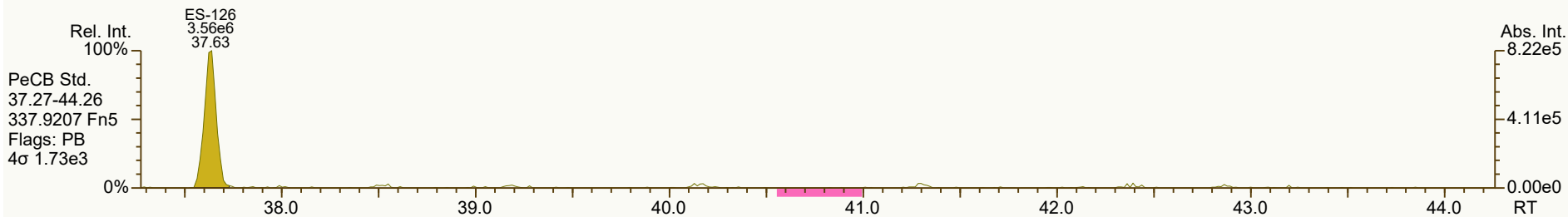
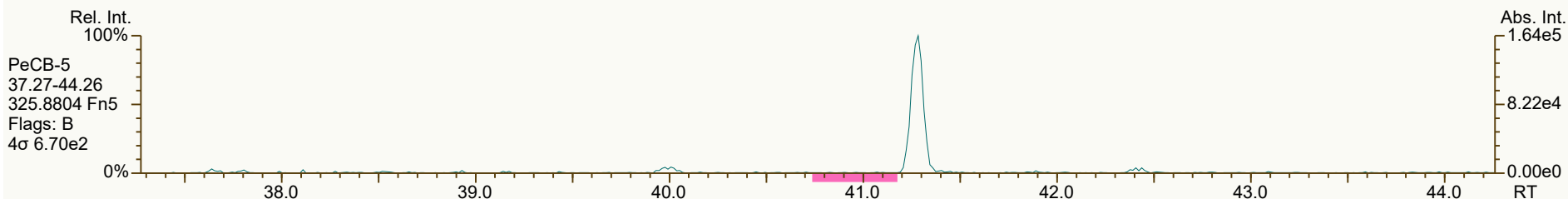
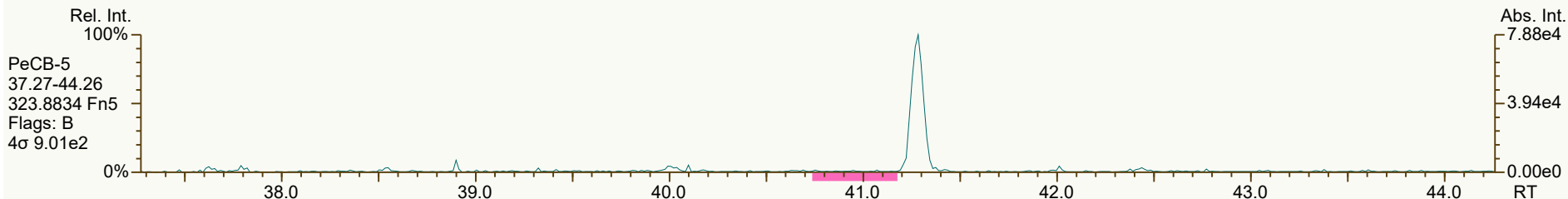
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 11 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



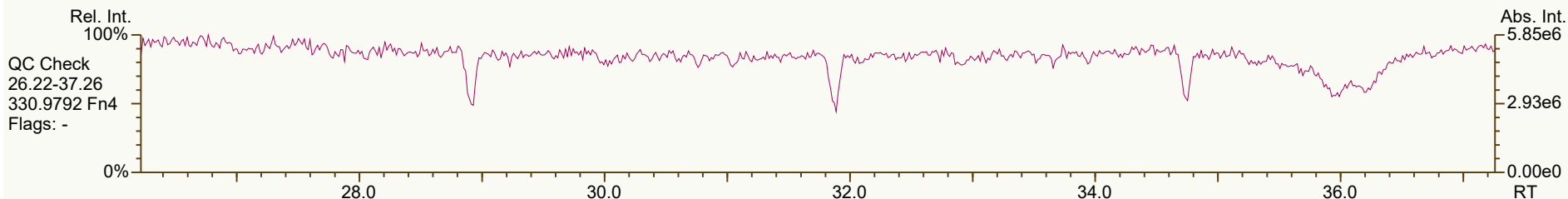
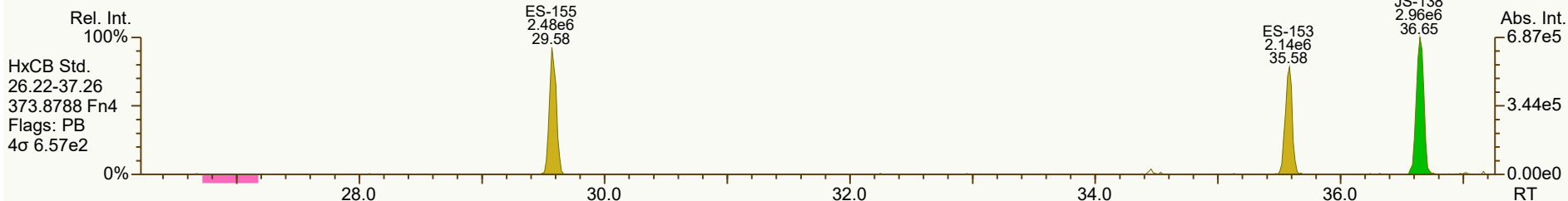
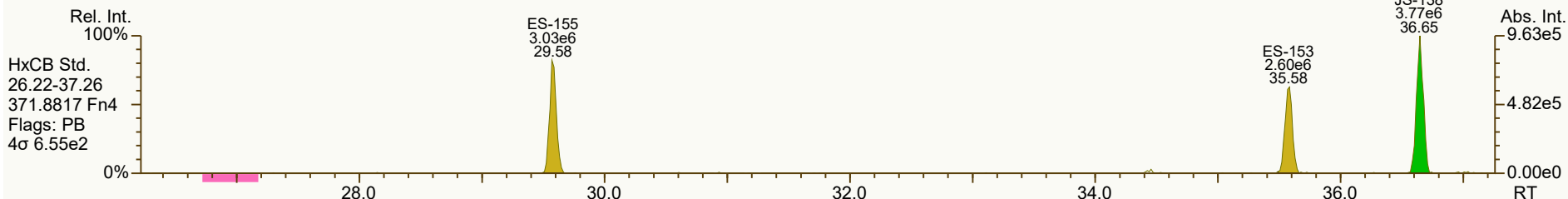
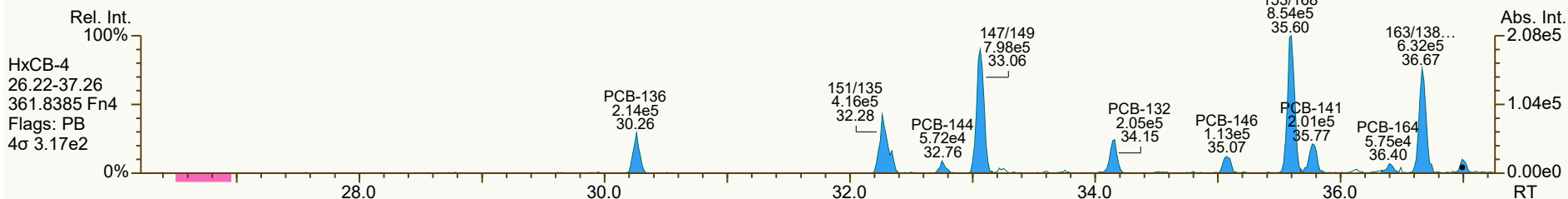
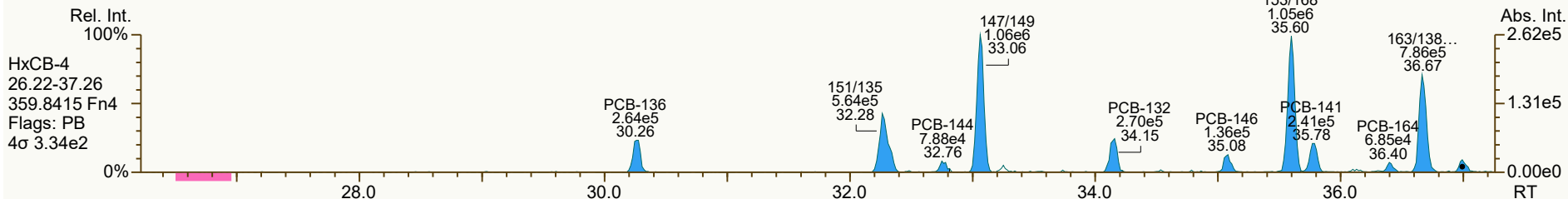
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 12 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



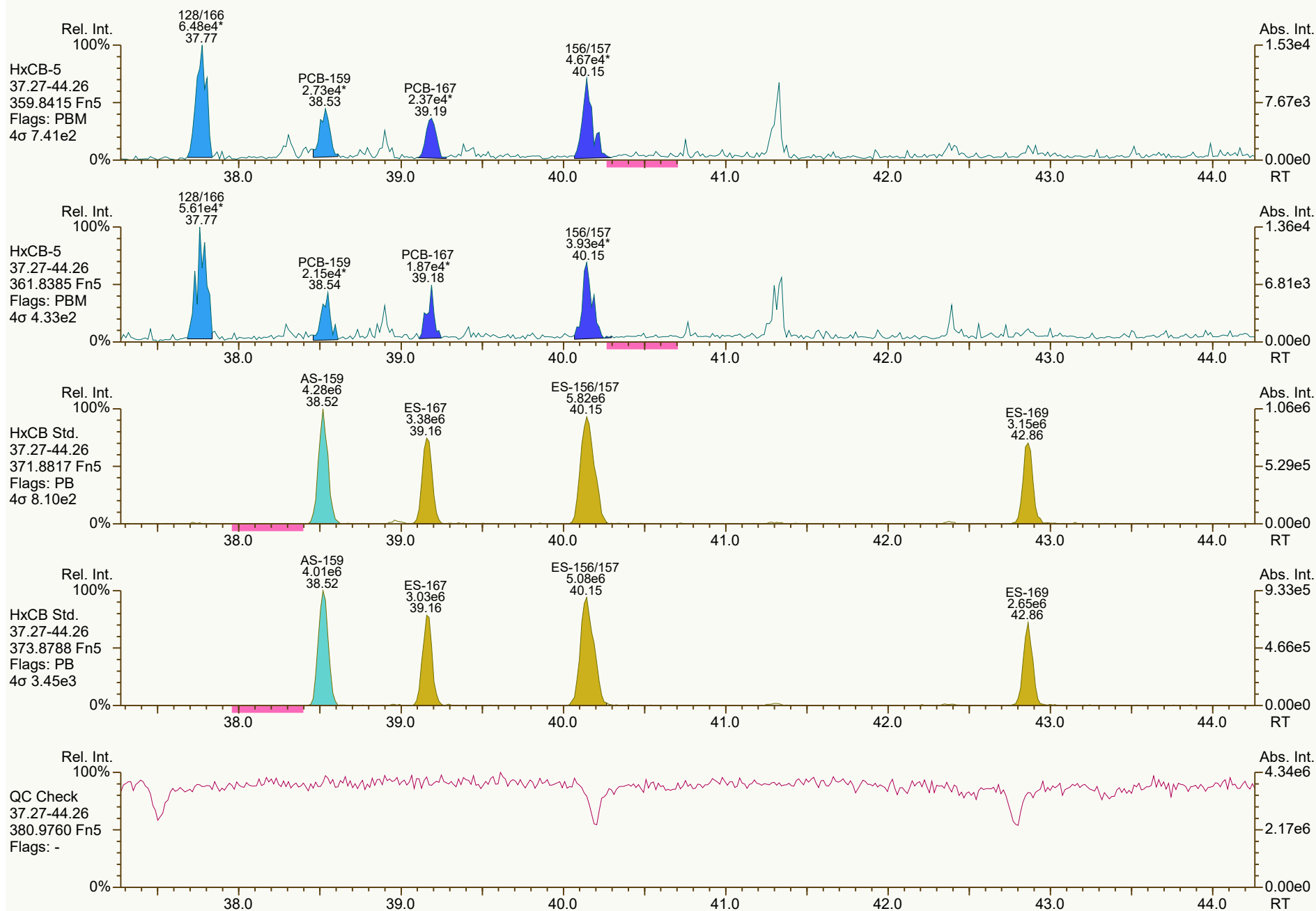
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 13 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
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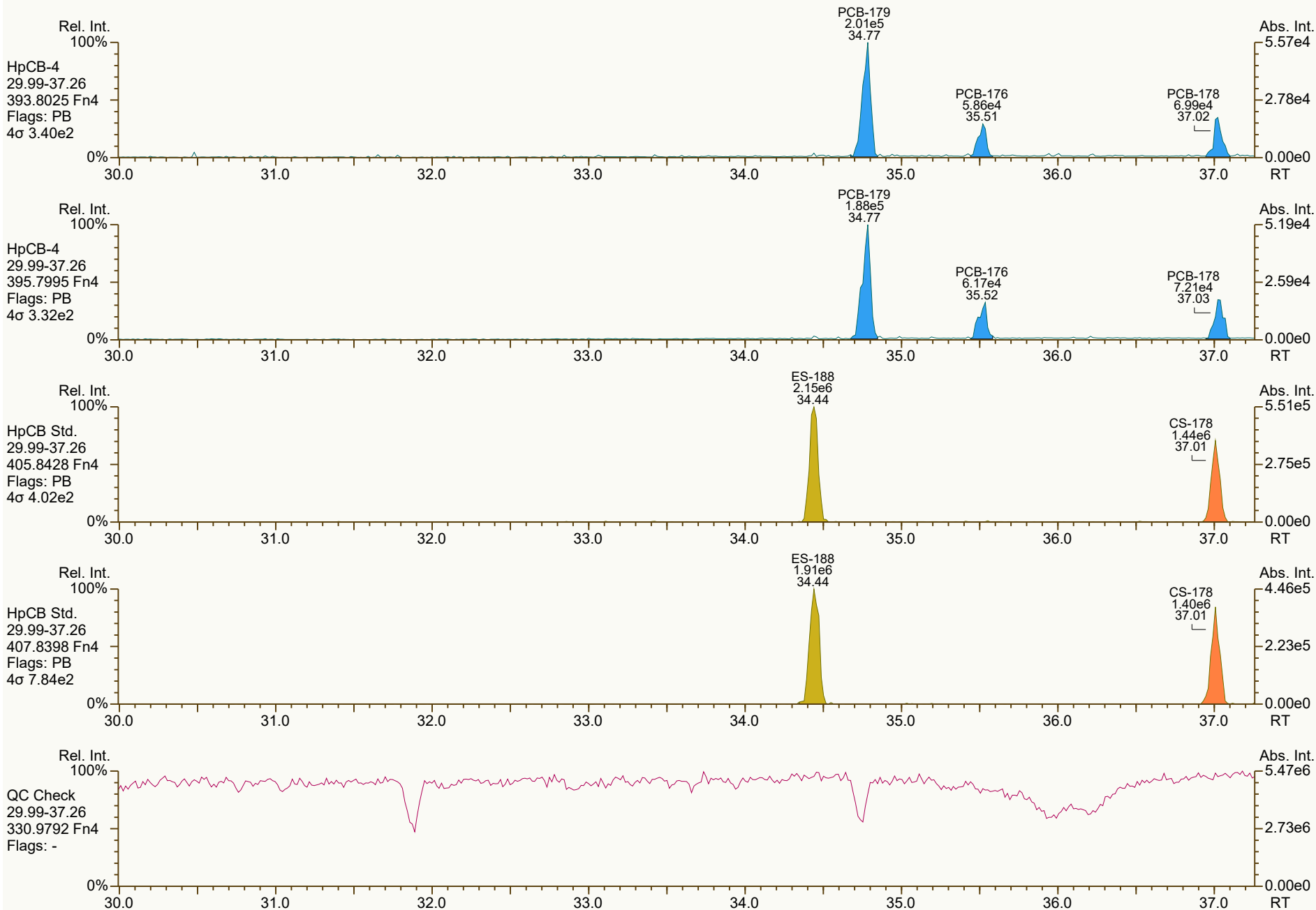
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 14 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
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Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 15:52 (PSW) Printed: 20-Sep-2024 11:02 Page 15 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



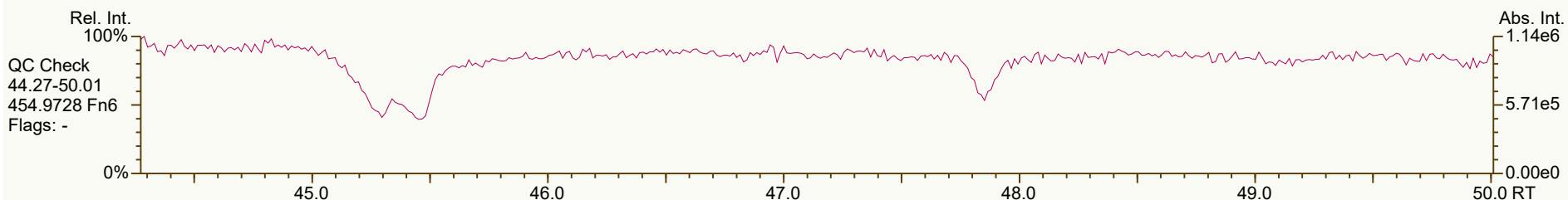
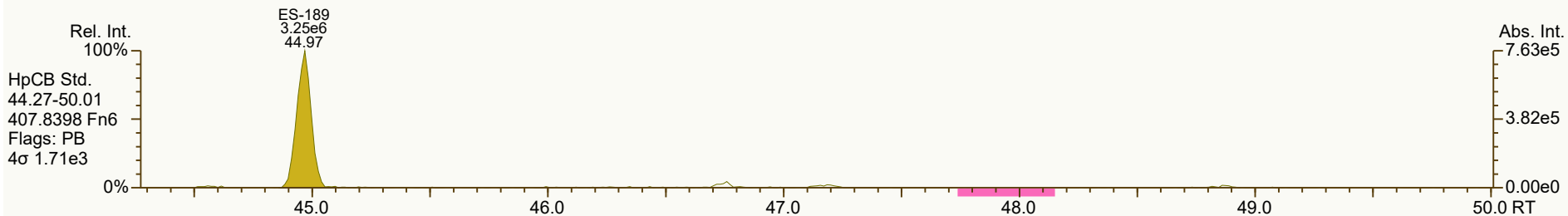
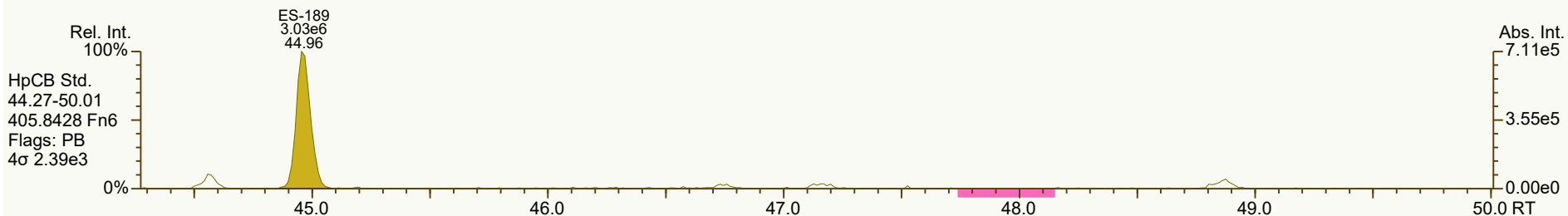
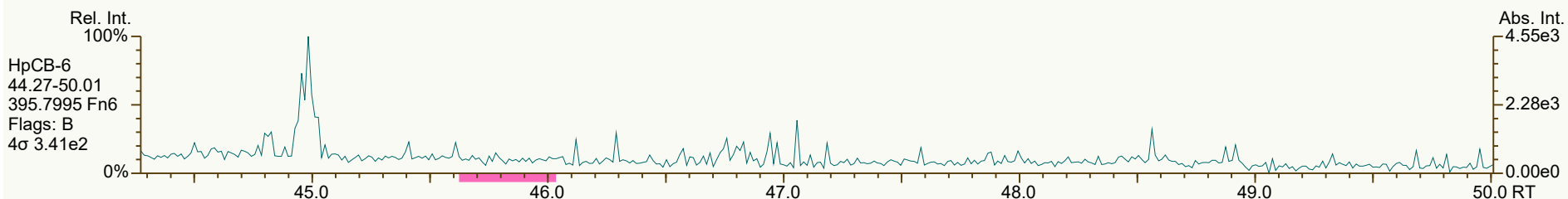
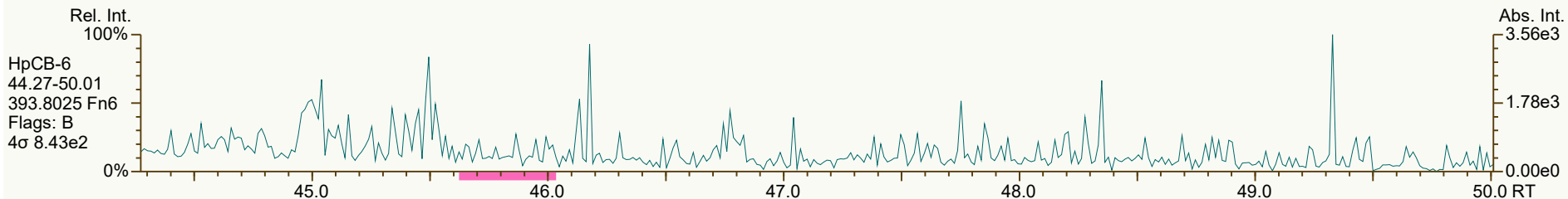
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8297, 2996 scc: 519-728

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 16 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



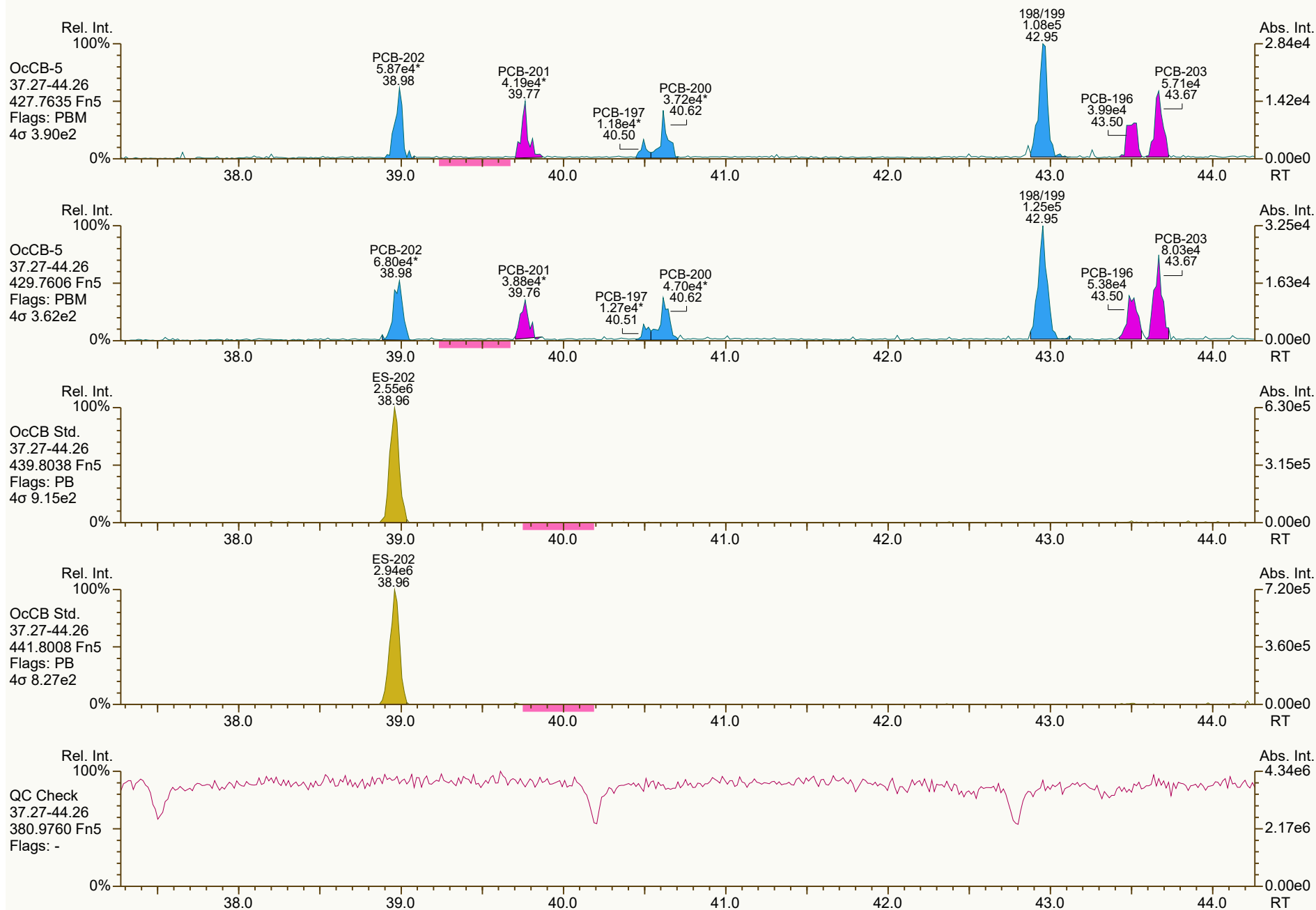
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7992, 8131 scc: 519-728

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 17 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



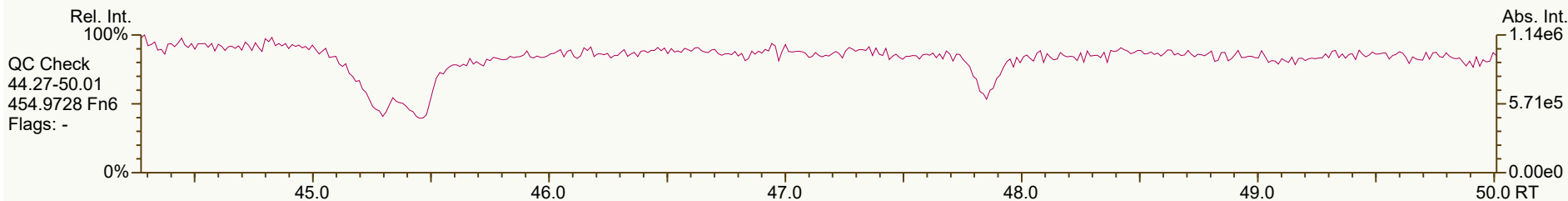
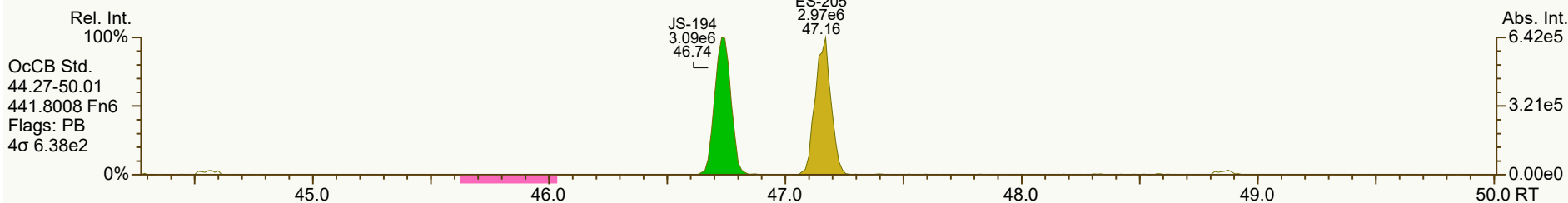
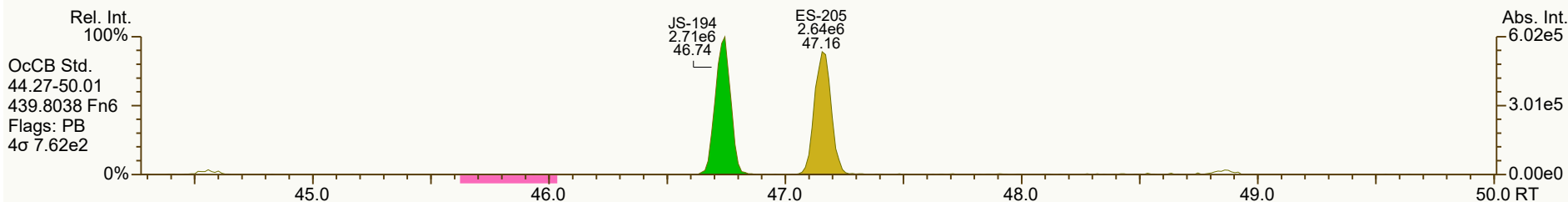
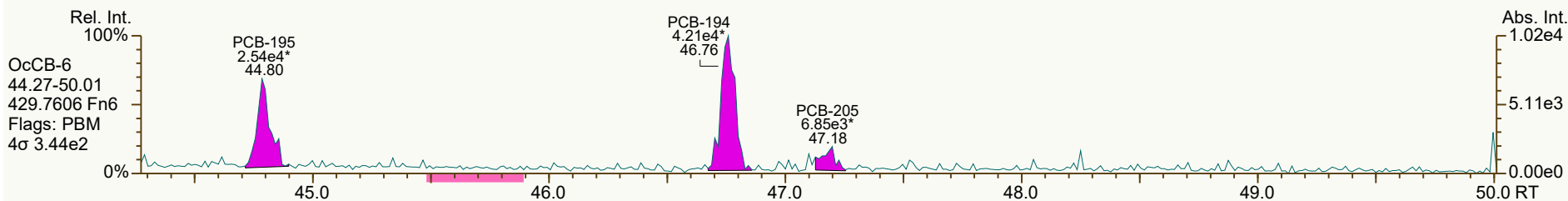
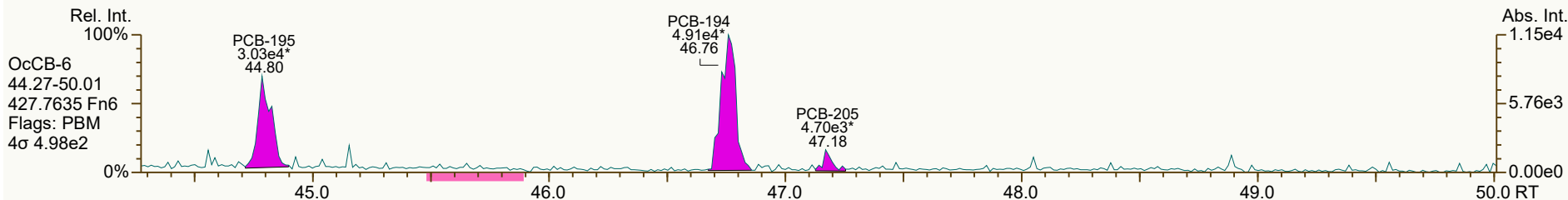
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7182, 2890 scc: 519-728

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 18 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



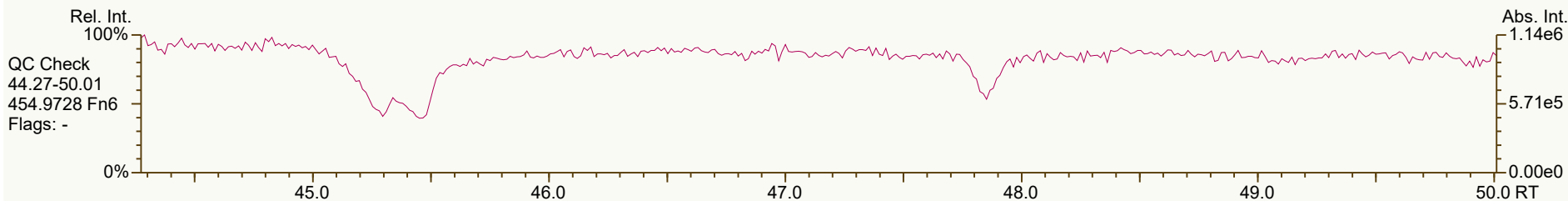
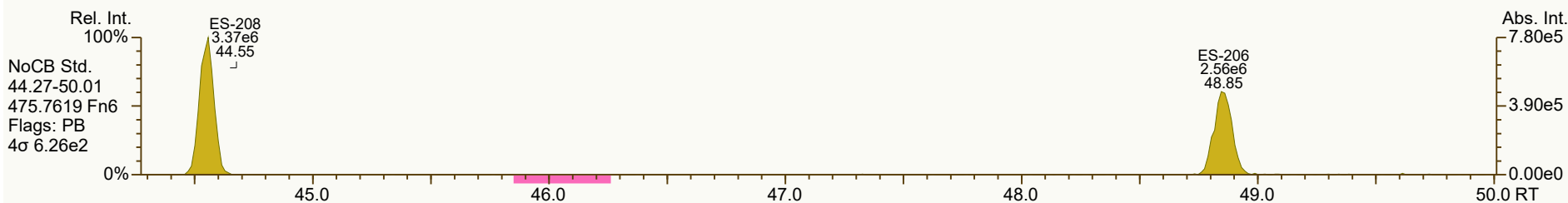
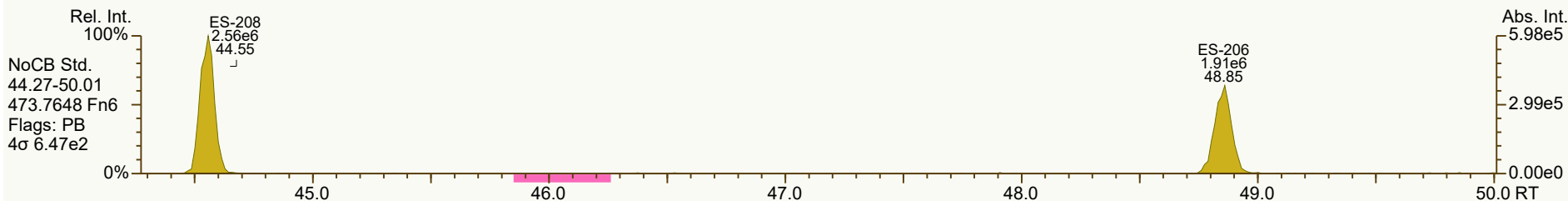
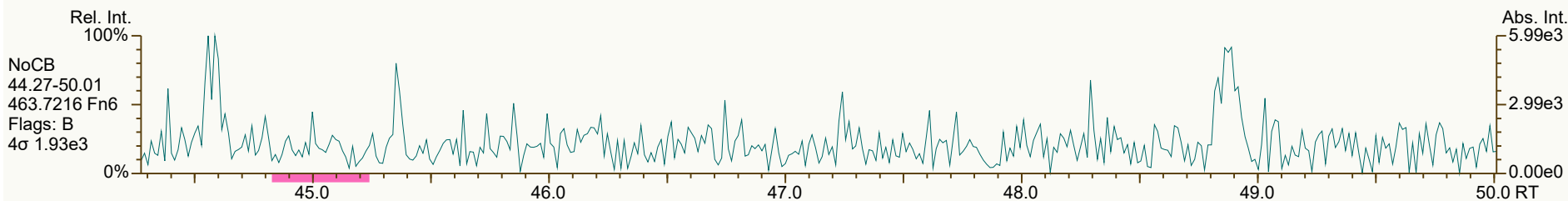
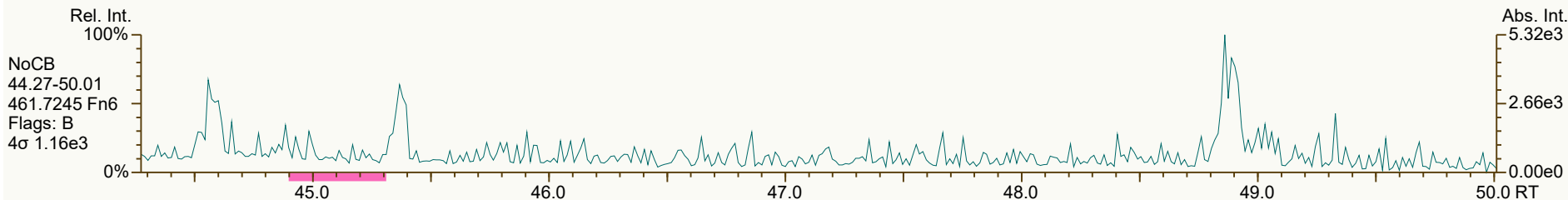
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9686, 0629 scc: 519-728

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 19 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



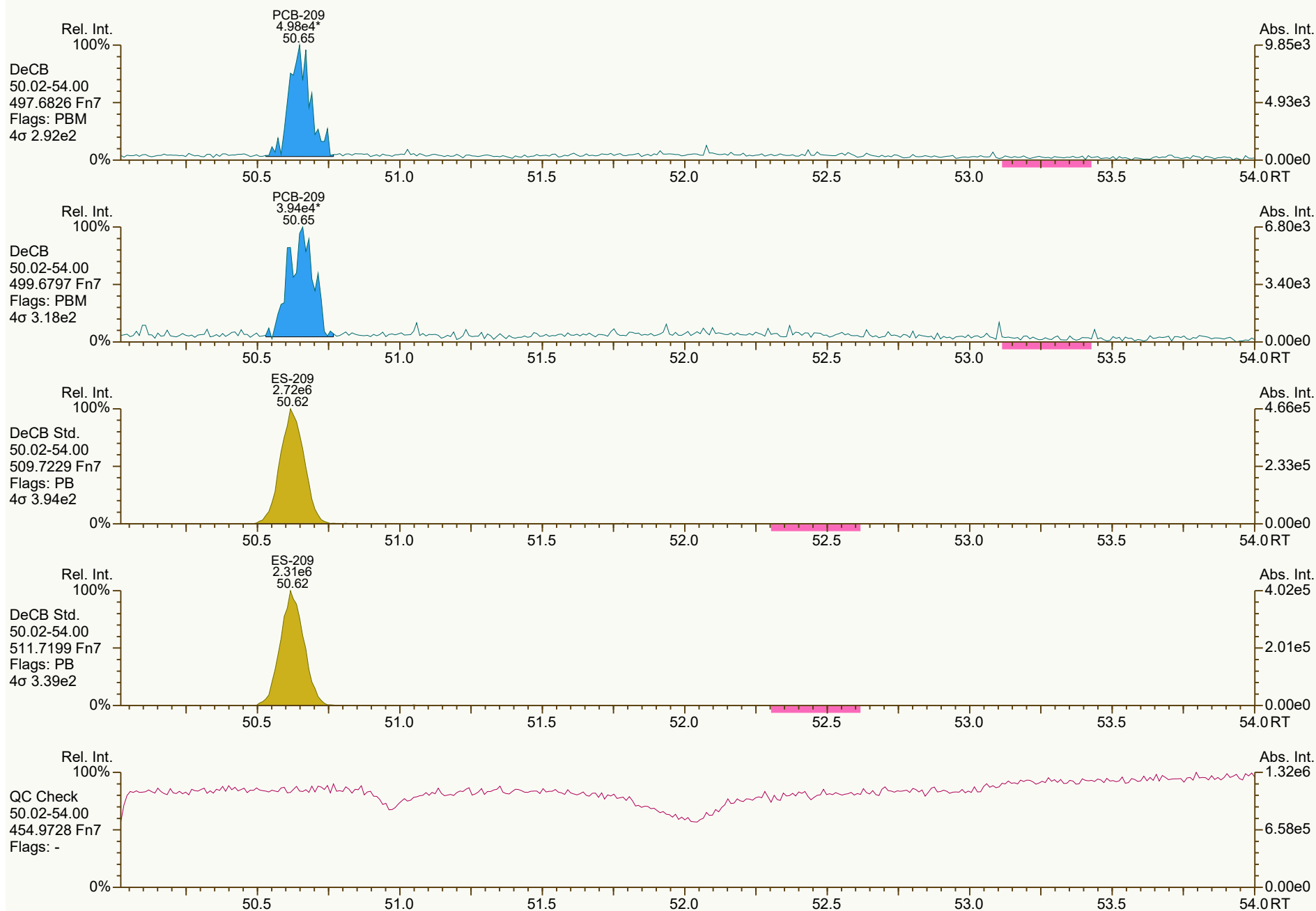
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6510, 1567 scc: 519-728

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 15:57 Printed: 20-Sep-2024 11:02 Page 20 of 21

SGS ID: B9770_21382_PCB_002
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#1 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 71

Acq: 17-Sep-2024 21:59:22
User: RAB Datafile: 240917S12



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_002.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2514, 7744 scc: 519-728

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 15:57 (PSW) Printed: 20-Sep-2024 11:02 Page 21 of 21

Lab ID: B9770_21382_PCB_003

ACQ: 17-Sep-2024 22:56:56 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#2 Mill On

UTP: 27-Sep-2024 13:09:34 PSW

J-level: 20 pg Split: 2

Checkcode: 188-654-MXT/C

Datafile: 240917S13

RPT: 27-Sep-2024 13:16 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------|--------------|----|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-77 33'44'-TeCB | ND | | 1.0006 | | | | | 1.45 | ND | 3.05E+03 | 12.9 |
| PCB-81 344'5'-TeCB | ND | | 1.0005 | | | | | 1.46 | ND | 3.05E+03 | 14.2 |
| PCB-105 233'44'-PeCB | 35.06 | B | 1.0007 | 1.0007 | 0 | 5.71E+04 | 0.59 | 1.18 | 34.6 | 1.37E+03 | 8.7 |
| PCB-114 2344'5'-PeCB | ND | | 1.0007 | | | | | 1.14 | ND | 1.37E+03 | 9.43 |
| PCB-118 23'44'5'-PeCB | 34.04 | B | 1.0007 | 1.0008 | +0.2 | 1.72E+05 | 0.61 | 1.18 | 105 | 1.37E+03 | 9.12 |
| PCB-123 23'44'5'-PeCB | ND | | 1.0006 | | | | | 1.19 | ND | 1.37E+03 | 8.32 |
| PCB-126 33'44'5'-PeCB | ND | | 1.0005 | | | | | 1.35 | ND | 1.29E+03 | 7.95 |
| PCB-156/157 ...-HxCB | ND | C | 1.0005 | | | | | 1.23 | ND | 9.69E+02 | 10.9 |
| PCB-167 23'44'55'-HxCB | ND | | 1.0005 | | | | | 1.22 | ND | 9.69E+02 | 6.47 |
| PCB-169 33'44'55'-HxCB | ND | | 1.0005 | | | | | 1.23 | ND | 9.69E+02 | 6.99 |
| PCB-189 233'44'55'-HpCB | ND | | 1.0004 | | | | | 1.31 | ND | 1.01E+03 | 6.49 |
| PCB-209 DeCB | ND | | 1.0005 | | | | | 1.08 | ND | 5.33E+02 | 7.02 |
| | | | | | | | | | | | |
| | | | | | | | | | | 20% | 145% |
| ES PCB-1 | 11.46 | | 0.7229 | 0.7228 | -0.1 | 3.69E+06 | 3.16 | 1.09 | 36.8 % | 5% | 145% |
| ES PCB-3 | 13.69 | | 0.8630 | 0.8633 | +0.2 | 4.46E+06 | 2.98 | 1.06 | 45.5 % | 5% | 145% |
| ES PCB-4 | 13.96 | | 0.8788 | 0.8809 | +1.8 | 2.77E+06 | 1.59 | 0.52 | 57.8 % | 5% | 145% |
| ES PCB-15 | 19.53 | | 1.2319 | 1.2319 | 0 | 5.87E+06 | 1.49 | 1.11 | 57.1 % | 5% | 145% |
| ES PCB-19 | 16.95 | | 1.0691 | 1.0691 | 0 | 3.55E+06 | 1.08 | 0.54 | 71.3 % | 5% | 145% |
| ES PCB-37 | 25.78 | | 1.0809 | 1.0810 | +0.2 | 5.69E+06 | 1.05 | 1.71 | 42.8 % | 5% | 145% |
| ES PCB-54 | 19.81 | | 0.8306 | 0.8305 | -0.1 | 3.52E+06 | 0.76 | 0.78 | 58.1 % | 5% | 145% |
| ES PCB-77 | 32.08 | | 1.3442 | 1.3449 | +1.3 | 5.51E+06 | 0.72 | 1.53 | 46.3 % | 10% | 145% |
| ES PCB-81 | 31.60 | | 1.3240 | 1.3247 | +1.3 | 5.76E+06 | 0.70 | 1.55 | 47.6 % | 10% | 145% |
| ES PCB-104 | 24.69 | | 0.8294 | 0.8290 | -0.6 | 3.91E+06 | 1.65 | 0.74 | 87.9 % | 10% | 145% |
| ES PCB-105 | 35.04 | | 1.1761 | 1.1763 | +0.4 | 5.59E+06 | 1.59 | 1.31 | 71.4 % | 10% | 145% |
| ES PCB-114 | 34.48 | | 1.1575 | 1.1576 | +0.2 | 5.67E+06 | 1.47 | 1.34 | 70.5 % | 10% | 145% |
| ES PCB-118 | 34.02 | | 1.1420 | 1.1420 | 0 | 5.54E+06 | 1.36 | 1.35 | 68.5 % | 10% | 145% |
| ES PCB-123 | 33.74 | | 1.1327 | 1.1328 | +0.2 | 7.51E+06 | 1.42 | 1.29 | 97.3 % | 10% | 145% |
| ES PCB-126 | 37.64 | | 1.2635 | 1.2636 | +0.2 | 4.95E+06 | 1.38 | 1.59 | 51.9 % | 10% | 145% |
| ES PCB-153 | 35.58 | | 0.9707 | 0.9708 | +0.2 | 4.49E+06 | 1.18 | 1.10 | 76.4 % | 10% | 145% |
| ES PCB-155 | 29.58 | | 0.8072 | 0.8071 | -0.2 | 4.91E+06 | 1.27 | 1.38 | 66.9 % | 10% | 145% |
| ES PCB-156/157 | 40.16 | C | 1.0958 | 1.0956 | -0.5 | 9.15E+06 | 1.15 | 1.62 | 52.9 % | 10% | 145% |
| ES PCB-167 | 39.17 | | 1.0687 | 1.0687 | 0 | 5.19E+06 | 1.18 | 1.70 | 57.2 % | 10% | 145% |
| ES PCB-169 | 42.87 | | 1.1697 | 1.1696 | -0.3 | 4.81E+06 | 1.12 | 1.55 | 57.9 % | 10% | 145% |
| ES PCB-170 | 42.38 | | 0.9066 | 0.9066 | 0 | 4.10E+06 | 0.97 | 1.06 | 87.1 % | 10% | 145% |
| ES PCB-180 | 41.30 | | 0.8835 | 0.8835 | 0 | 4.47E+06 | 0.99 | 1.30 | 77.1 % | 10% | 145% |
| ES PCB-188 | 34.45 | | 0.9398 | 0.9398 | 0 | 3.44E+06 | 1.07 | 0.63 | 103 % | 10% | 145% |
| ES PCB-189 | 44.97 | | 0.9621 | 0.9621 | 0 | 5.20E+06 | 0.90 | 1.71 | 68.4 % | 10% | 145% |
| ES PCB-202 | 38.97 | | 1.0632 | 1.0632 | 0 | 4.08E+06 | 0.91 | 0.96 | 79.7 % | 10% | 145% |
| ES PCB-205 | 47.17 | | 1.0091 | 1.0091 | 0 | 4.88E+06 | 0.90 | 1.23 | 88.9 % | 10% | 145% |
| ES PCB-206 | 48.86 | | 1.0453 | 1.0453 | 0 | 3.77E+06 | 0.81 | 0.84 | 101 % | 10% | 145% |

Lab ID: B9770_21382_PCB_003

ACQ: 17-Sep-2024 22:56:56 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#2 Mill On

UTP: 27-Sep-2024 13:09:34 PSW

J-level: 20 pg Split: 2

Checkcode: 188-654-MXT/C

Datafile: 240917S13

RPT: 27-Sep-2024 13:16 pw

Stds (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low 20% | DL / Recv. High 145% |
|-----------------------|------------------|----|-------------------|-------------------|-----------------|---------------------|-----------------|-----------------|-------------------|-----------------------------|----------------------------|
| ES PCB-208 | 44.56 | | 0.9533 | 0.9533 | 0 | 4.89E+06 | 0.78 | 1.25 | 87.7 % | 10% | 145% |
| ES PCB-209 | 50.64 | | 1.0832 | 1.0832 | 0 | 4.17E+06 | 1.16 | 0.94 | 99.5 % | 10% | 145% |
| | | | | | | | | | | 70% | 130% |
| SS PCB-28 | 22.24 | | 0.9327 | 0.9326 | -0.1 | 5.24E+06 | 0.99 | 1.01 | 90.9 % | 5% | 145% |
| SS PCB-111 | 32.06 | | 1.0762 | 1.0764 | +0.4 | 4.63E+06 | 1.58 | 0.97 | 63.7 % | 10% | 145% |
| SS PCB-178 | 37.01 | | 1.0098 | 1.0098 | 0 | 2.40E+06 | 1.11 | 0.74 | 94.5 % | 10% | 145% |
| ES PCB-20 | 22.24 | | 0.9327 | 0.9326 | -0.1 | 5.24E+06 | 0.99 | 1.73 | 90.9 % | 5% | 145% |
| ES PCB-111 | 32.06 | | 1.0762 | 1.0764 | +0.4 | 4.63E+06 | 1.58 | 1.25 | 61.9 % | 10% | 145% |
| ES PCB-178 | 37.01 | | 1.0098 | 1.0098 | 0 | 2.40E+06 | 1.11 | 0.46 | 97.4 % | 10% | 145% |

| | | | | | | | | | | | |
|------------|-------|--|--|--|--|----------|------|--|--|--|--|
| JS PCB-9 | 15.85 | | | | | 9.24E+06 | 1.44 | | | | |
| JS PCB-52 | 23.85 | | | | | 7.80E+06 | 0.79 | | | | |
| JS PCB-101 | 29.79 | | | | | 5.98E+06 | 1.41 | | | | |
| JS PCB-138 | 36.65 | | | | | 5.34E+06 | 1.20 | | | | |
| JS PCB-194 | 46.74 | | | | | 4.45E+06 | 0.90 | | | | |

| | Totals | NON-EMPC | EMPC | DL |
|--|----------|----------|-------|------|
| | Mono-CB | 8,240 | 8,240 | 33.8 |
| | Di-CB | 4,410 | 4,780 | 20.6 |
| | Tri-CB | 1,100 | 1,140 | 16.6 |
| | Tetra-CB | 908 | 1,090 | 12.3 |
| | Penta-CB | 1,030 | 1,110 | 8.14 |
| | Hexa-CB | 1,540 | 1,890 | 7.03 |
| | Hepta-CB | 795 | 991 | 9.49 |
| | Octa-CB | 61 | 140 | 5.18 |
| | Nona-CB | 0 | 0 | 25.6 |

Lab ID: B9770_21382_PCB_003

ACQ: 17-Sep-2024 22:56:56 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#2 Mill On

UTP: 27-Sep-2024 13:09:34 PSW

J-level: 20 pg Split: 2

Checkcode: 188-654-MXT/C

Datafile: 240917S13

RPT: 27-Sep-2024 13:16 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-----------|----------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-1 2-MoCB | 11.47 | | 1.0012 | 1.0012 | 0 | 3.25E+06 | 3.13 | 1.47 | 2,390 | 6.69E+03 | 35.2 |
| PCB-2 3-MoCB | 13.52 | | 0.9878 | 0.9879 | +0.1 | 5.30E+06 | 3.02 | 1.32 | 3,600 | 6.69E+03 | 35.7 |
| PCB-3 4-MoCB | 13.70 | | 1.0010 | 1.0010 | 0 | 3.64E+06 | 2.89 | 1.45 | 2,250 | 6.69E+03 | 32.4 |
| PCB-4 22'-DiCB | 13.98 | B EMPC | 1.0012 | 1.0011 | -0.1 | 1.03E+05 | 0.92 | 1.30 | 115 | 2.82E+03 | 25.3 |
| PCB-10 26-DiCB | ND | | 1.0132 | | | | | 1.56 | ND | 2.82E+03 | 21 |
| PCB-9 25-DiCB | 15.87 | | 1.0010 | 1.0011 | +0.1 | 7.10E+04 | SI | 1.18 | 41.1 | 3.32E+03 | 17.5 |
| PCB-7 24-DiCB | 16.03 | B | 1.0110 | 1.0110 | 0 | 9.29E+04 | SI | 1.04 | 61.1 | 3.32E+03 | 19.9 |
| PCB-6 23'-DiCB | 16.26 | B EMPC | 1.0257 | 1.0257 | 0 | 1.74E+05 | 1.18 | 1.20 | 98.5 | 3.32E+03 | 17.2 |
| PCB-5 23-DiCB | 16.56 | | 1.0444 | 1.0444 | 0 | 1.24E+05 | SI | 0.99 | 85.8 | 3.32E+03 | 21 |
| PCB-8 24'-DiCB | 16.67 | B EMPC | 1.0517 | 1.0518 | +0.1 | 3.00E+05 | 1.27 | 1.27 | 161 | 3.32E+03 | 16.3 |
| PCB-14 35-DiCB | 18.18 | | 0.9312 | 0.9311 | -0.1 | 1.07E+05 | SI | 1.04 | 70.7 | 3.32E+03 | 19.9 |
| PCB-11 33'-DiCB | 18.97 | B | 0.9713 | 0.9713 | 0 | 6.01E+06 | 1.46 | 1.12 | 3,650 | 3.32E+03 | 18.4 |
| PCB-13/12 34'/34-DiCB | 19.26 | C | 0.9860 | 0.9864 | +0.5 | 6.11E+05 | 1.40 | 1.01 | 412 | 3.32E+03 | 20.4 |
| PCB-15 44'-DiCB | 19.54 | B | 1.0008 | 1.0009 | +0.1 | 1.67E+05 | SI | 1.31 | 86.8 | 3.32E+03 | 15.8 |
| PCB-19 22'6-TrCB | 16.97 | EMPC | 1.0010 | 1.0011 | +0.1 | 2.54E+04 | 1.20 | 1.16 | 24.6 | 2.49E+03 | 19.7 |
| PCB-30/18 246/22'5-TrCB | 18.69 | B C | 1.1015 | 1.1030 | +1.7 | 1.63E+05 | 1.07 | 1.43 | 128 | 2.49E+03 | 16.1 |
| PCB-17 22'4-TrCB | 19.07 | B | 1.1254 | 1.1255 | +0.1 | 9.05E+04 | 1.10 | 0.99 | 103 | 2.49E+03 | 23.1 |
| PCB-27 23'6-TrCB | ND | | 1.1371 | | | | | 1.42 | ND | 2.49E+03 | 16.2 |
| PCB-24 236-TrCB | ND | | 1.1444 | | | | | 1.43 | ND | 2.49E+03 | 16.1 |
| PCB-16 22'3-TrCB | 19.51 | | 1.1508 | 1.1511 | +0.4 | 6.57E+04 | 1.17 | 0.94 | 79 | 2.49E+03 | 24.5 |
| PCB-32 24'6-TrCB | 19.97 | B | 1.1782 | 1.1783 | +0.1 | 8.58E+04 | 0.97 | 1.55 | 62.2 | 2.49E+03 | 14.8 |
| PCB-34 23'5'-TrCB | ND | | 0.8181 | | | | | 1.17 | ND | 2.94E+03 | 16.5 |
| PCB-23 235-TrCB | ND | | 0.8235 | | | | | 1.16 | ND | 2.94E+03 | 16.6 |
| PCB-26/29 23'5/245-TrCB | 21.51 | B C | 0.8347 | 0.8342 | -0.6 | 8.15E+04 | 1.18 | 1.19 | 48.3 | 2.94E+03 | 16.2 |
| PCB-25 23'4-TrCB | 21.70 | J EMPC | 0.8426 | 0.8417 | -1.2 | 3.09E+04 | 1.50 | 1.43 | 15.2 | 2.94E+03 | 13.5 |
| PCB-31 24'5-TrCB | 22.00 | B | 0.8534 | 0.8532 | -0.3 | 2.70E+05 | 1.11 | 1.37 | 139 | 2.94E+03 | 14 |
| PCB-28/20 244'/233'-TrCB | 22.27 | B C | 0.8642 | 0.8636 | -0.8 | 3.49E+05 | 1.11 | 1.28 | 192 | 2.94E+03 | 15 |
| PCB-21/33 234/23'4'-TrCB | 22.48 | B C | 0.8710 | 0.8720 | +1.3 | 2.19E+05 | 1.18 | 1.23 | 125 | 2.94E+03 | 15.6 |
| PCB-22 234'-TrCB | 22.83 | | 0.8859 | 0.8856 | -0.4 | 1.25E+05 | 1.14 | 1.33 | 66 | 2.94E+03 | 14.5 |
| PCB-36 33'5-TrCB | ND | | 0.9383 | | | | | 1.38 | ND | 2.94E+03 | 13.9 |
| PCB-39 34'5-TrCB | ND | | 0.9508 | | | | | 1.26 | ND | 2.94E+03 | 15.2 |
| PCB-38 345-TrCB | ND | | 0.9709 | | | | | 1.27 | ND | 2.94E+03 | 15.1 |
| PCB-35 33'4-TrCB | 25.44 | B | 0.9867 | 0.9867 | 0 | 1.61E+05 | 1.08 | 1.19 | 94.7 | 2.94E+03 | 16.1 |
| PCB-37 344'-TrCB | 25.80 | B | 1.0007 | 1.0007 | 0 | 1.25E+05 | 1.05 | 1.43 | 61.2 | 2.94E+03 | 13.4 |
| PCB-54 22'66'-TeCB | ND | | 1.0010 | | | | | 1.52 | ND | 8.32E+02 | 5.44 |
| PCB-50/53 22'46/22'56'-TeCB | 21.76 | J EMPC C | 0.9128 | 0.9124 | -0.5 | 2.41E+04 | 1.07 | 0.86 | 19.4 | 1.96E+03 | 15.4 |
| PCB-45 22'36'-TeCB | 22.37 | B EMPC | 0.9377 | 0.9379 | +0.3 | 2.43E+04 | 0.62 | 0.72 | 23.4 | 1.96E+03 | 18.4 |
| PCB-51 22'46'-TeCB | 22.43 | B EMPC | 0.9403 | 0.9403 | 0 | 2.68E+04 | 0.92 | 0.87 | 21.4 | 1.96E+03 | 15.3 |
| PCB-46 22'36'-TeCB | ND | | 0.9496 | | | | | 0.68 | ND | 1.96E+03 | 19.4 |
| PCB-52 22'55'-TeCB | 23.88 | B | 1.0010 | 1.0010 | 0 | 3.28E+05 | 0.79 | 0.97 | 235 | 1.96E+03 | 13.7 |
| PCB-73 23'5'6-TeCB | ND | | 1.0061 | | | | | 1.19 | ND | 1.96E+03 | 11.2 |

Lab ID: B9770_21382_PCB_003

ACQ: 17-Sep-2024 22:56:56 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#2 Mill On

UTP: 27-Sep-2024 13:09:34 PSW

J-level: 20 pg Split: 2

Checkcode: 188-654-MXT/C

Datafile: 240917S13

RPT: 27-Sep-2024 13:16 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|---------------------------------|-----------|--------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-43 22'35'-TeCB | ND | | 1.0099 | | | | | 0.81 | ND | 1.96E+03 | 16.4 |
| PCB-69/49 23'46/22'45'-TeCB | 24.31 | B C | 1.0177 | 1.0190 | +1.9 | 1.21E+05 | 0.69 | 0.97 | 86.7 | 1.96E+03 | 13.7 |
| PCB-48 22'45'-TeCB | 24.56 | EMPC | 1.0295 | 1.0297 | +0.3 | 2.88E+04 | 1.04 | 0.83 | 24.2 | 1.96E+03 | 16.1 |
| PCB-44/47/65 ...-TeCB | 24.78 | B C | 1.0386 | 1.0388 | +0.3 | 2.77E+05 | 0.73 | 0.94 | 204 | 1.96E+03 | 14.1 |
| PCB-59/62/75 ...-TeCB | ND | C | 1.0499 | | | | | 1.09 | ND | 1.96E+03 | 12.2 |
| PCB-42 22'34'-TeCB | 25.22 | | 1.0575 | 1.0572 | -0.5 | 4.19E+04 | 0.68 | 0.73 | 39.9 | 1.96E+03 | 18.2 |
| PCB-41 22'34'-TeCB | ND | | 1.0713 | | | | | 0.63 | ND | 1.96E+03 | 21.1 |
| PCB-71/40 23'4'6/22'33'-TeCB | 25.66 | B C | 1.0755 | 1.0757 | +0.3 | 7.75E+04 | 0.77 | 0.92 | 58.7 | 1.96E+03 | 14.5 |
| PCB-64 234'6'-TeCB | 25.85 | B EMPC | 1.0836 | 1.0836 | 0 | 5.94E+04 | 0.58 | 1.11 | 37.2 | 1.96E+03 | 12 |
| PCB-72 23'55'-TeCB | ND | | 0.8404 | | | | | 1.20 | ND | 3.05E+03 | 17.3 |
| PCB-68 23'45'-TeCB | ND | | 0.8483 | | | | | 1.13 | ND | 3.05E+03 | 18.3 |
| PCB-57 233'5'-TeCB | ND | | 0.8601 | | | | | 1.14 | ND | 3.05E+03 | 18.1 |
| PCB-58 233'5'-TeCB | ND | | 0.8668 | | | | | 1.31 | ND | 3.05E+03 | 15.8 |
| PCB-67 23'45'-TeCB | ND | | 0.8713 | | | | | 1.32 | ND | 3.05E+03 | 15.7 |
| PCB-63 234'5'-TeCB | ND | | 0.8785 | | | | | 1.08 | ND | 3.05E+03 | 19.1 |
| PCB-61/70/74/76 ...-TeCB | 28.05 | B C | 0.8878 | 0.8879 | +0.2 | 3.42E+05 | 0.76 | 1.18 | 202 | 3.05E+03 | 17.6 |
| PCB-66 23'44'-TeCB | 28.33 | B | 0.8967 | 0.8966 | -0.2 | 1.46E+05 | 0.82 | 1.23 | 82.4 | 3.05E+03 | 16.8 |
| PCB-55 233'4'-TeCB | ND | | 0.9016 | | | | | 1.22 | ND | 3.05E+03 | 17 |
| PCB-56 233'4'-TeCB | 28.92 | EMPC | 0.9155 | 0.9153 | -0.3 | 6.04E+04 | 1.02 | 1.20 | 35 | 3.05E+03 | 17.2 |
| PCB-60 2344'-TeCB | 29.10 | EMPC | 0.9214 | 0.9211 | -0.5 | 3.33E+04 | 1.40 | 1.04 | 22.3 | 3.05E+03 | 19.9 |
| PCB-80 33'55'-TeCB | ND | | 0.9309 | | | | | 1.32 | ND | 3.05E+03 | 15.7 |
| PCB-79 33'45'-TeCB | ND | | 0.9732 | | | | | 1.45 | ND | 3.05E+03 | 14.2 |
| PCB-78 33'45'-TeCB | ND | | 0.9884 | | | | | 1.18 | ND | 3.05E+03 | 17.5 |
| PCB-104 22'466'-PeCB | ND | | 1.0009 | | | | | 1.46 | ND | 7.94E+02 | 5.32 |
| PCB-96 22'366'-PeCB | ND | | 1.0147 | | | | | 1.19 | ND | 7.94E+02 | 6.54 |
| PCB-103 22'45'6'-PeCB | ND | | 0.8968 | | | | | 0.72 | ND | 1.37E+03 | 13.8 |
| PCB-94 22'356'-PeCB | ND | | 0.9036 | | | | | 0.59 | ND | 1.37E+03 | 16.7 |
| PCB-95 22'35'6'-PeCB | 27.30 | B | 0.9167 | 0.9167 | 0 | 3.23E+05 | 0.61 | 0.68 | 253 | 1.37E+03 | 14.5 |
| PCB-100/93 22'44'6/22'356'-PeCB | ND | C | 0.9229 | | | | | 0.65 | ND | 1.37E+03 | 15.2 |
| PCB-102 22'456'-PeCB | ND | | 0.9269 | | | | | 0.85 | ND | 1.37E+03 | 11.6 |
| PCB-98 22'34'6'-PeCB | ND | | 0.9292 | | | | | 0.72 | ND | 1.37E+03 | 13.7 |
| PCB-88 22'346'-PeCB | ND | | 0.9390 | | | | | 0.61 | ND | 1.37E+03 | 16.2 |
| PCB-91 22'34'6'-PeCB | ND | | 0.9416 | | | | | 0.72 | ND | 1.37E+03 | 13.8 |
| PCB-84 22'33'6'-PeCB | 28.26 | B EMPC | 0.9486 | 0.9487 | +0.2 | 6.18E+04 | 0.49 | 0.57 | 58 | 1.37E+03 | 17.4 |
| PCB-89 22'346'-PeCB | ND | | 0.9623 | | | | | 0.69 | ND | 1.37E+03 | 14.3 |
| PCB-121 23'45'6'-PeCB | ND | | 0.9725 | | | | | 1.05 | ND | 1.37E+03 | 9.44 |
| PCB-92 22'355'-PeCB | 29.31 | B | 0.9839 | 0.9841 | +0.4 | 4.78E+04 | 0.69 | 0.68 | 37.2 | 1.37E+03 | 14.5 |
| PCB-113/90/101 ...-PeCB | 29.81 | B C | 0.9999 | 1.0009 | +1.8 | 3.98E+05 | 0.60 | 0.81 | 261 | 1.37E+03 | 12.2 |
| PCB-83 22'33'5'-PeCB | 30.23 | EMPC | 1.0148 | 1.0150 | +0.4 | 2.98E+04 | 0.48 | 0.59 | 26.9 | 1.37E+03 | 16.8 |
| PCB-99 22'44'5'-PeCB | 30.31 | B | 1.0174 | 1.0176 | +0.4 | 9.06E+04 | 0.66 | 0.94 | 51.1 | 1.37E+03 | 10.5 |
| PCB-112 233'56'-PeCB | ND | | 1.0210 | | | | | 1.13 | ND | 1.37E+03 | 8.75 |

Lab ID: B9770_21382_PCB_003

ACQ: 17-Sep-2024 22:56:56 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#2 Mill On

UTP: 27-Sep-2024 13:09:34 PSW

J-level: 20 pg Split: 2

Checkcode: 188-654-MXT/C

Datafile: 240917S13

RPT: 27-Sep-2024 13:16 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------------|--------------|--------|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-109/119/86/97/125...-PeCB | 30.80 | J B C | 1.0327 | 1.0341 | +2.6 | 1.90E+05 | 0.58 | 0.89 | 114 | 1.37E+03 | 11.1 |
| PCB-117 234'56-PeCB | ND | | 1.0504 | | | | | 0.95 | ND | 1.37E+03 | 10.4 |
| PCB-116/85 23456/22'344'-PeCB | 31.37 | J C | 1.0533 | 1.0532 | -0.2 | 2.88E+04 | 0.55 | 0.84 | 18.2 | 1.37E+03 | 11.8 |
| PCB-110 233'4'6-PeCB | 31.51 | B | 1.0579 | 1.0579 | 0 | 3.28E+05 | 0.67 | 1.12 | 156 | 1.37E+03 | 8.8 |
| PCB-115 2344'6-PeCB | ND | | 1.0600 | | | | | 1.11 | ND | 1.37E+03 | 8.9 |
| PCB-82 22'33'4-PeCB | ND | | 1.0675 | | | | | 0.72 | ND | 1.37E+03 | 13.8 |
| PCB-111 233'55'-PeCB | ND | | 1.0770 | | | | | 1.00 | ND | 1.37E+03 | 9.85 |
| PCB-120 23'455'-PeCB | ND | | 1.0902 | | | | | 1.22 | ND | 1.37E+03 | 8.12 |
| PCB-108/124 ...-PeCB | ND | C | 0.9915 | | | | | 1.03 | ND | 1.37E+03 | 9.64 |
| PCB-107 233'4'5-PeCB | ND | | 0.9975 | | | | | 1.08 | ND | 1.37E+03 | 9.13 |
| PCB-106 233'45-PeCB | ND | | 1.0038 | | | | | 1.07 | ND | 1.37E+03 | 9.24 |
| PCB-122 233'4'5'-PeCB | ND | | 1.0096 | | | | | 0.82 | ND | 1.37E+03 | 13.2 |
| PCB-127 33'455'-PeCB | ND | | 1.0352 | | | | | 1.05 | ND | 1.37E+03 | 9.84 |
| PCB-155 22'44'66'-HxCB | ND | | 1.0007 | | | | | 1.36 | ND | 6.64E+02 | 3.82 |
| PCB-152 22'3566'-HxCB | ND | | 1.0075 | | | | | 1.16 | ND | 6.64E+02 | 4.47 |
| PCB-150 22'34'66'-HxCB | ND | | 1.0119 | | | | | 1.00 | ND | 6.64E+02 | 5.17 |
| PCB-136 22'33'66'-HxCB | 30.26 | B EMPC | 1.0230 | 1.0230 | 0 | 1.25E+05 | 1.47 | 0.97 | 105 | 6.64E+02 | 5.37 |
| PCB-145 22'3466'-HxCB | ND | | 1.0313 | | | | | 1.09 | ND | 6.64E+02 | 4.74 |
| PCB-148 22'34'56'-HxCB | ND | | 1.0735 | | | | | 1.00 | ND | 6.64E+02 | 6.37 |
| PCB-151/135 ...-HxCB | 32.28 | B C | 1.0919 | 1.0913 | -1.2 | 2.80E+05 | 1.31 | 0.98 | 255 | 6.64E+02 | 6.5 |
| PCB-154 22'44'56'-HxCB | ND | | 1.0979 | | | | | 1.06 | ND | 6.64E+02 | 6.02 |
| PCB-144 22'345'6-HxCB | 32.76 | B | 1.1074 | 1.1074 | 0 | 3.58E+04 | 1.39 | 0.99 | 32.2 | 6.64E+02 | 6.42 |
| PCB-147/149 ...-HxCB | 33.07 | B C | 1.1177 | 1.1178 | +0.2 | 5.33E+05 | 1.26 | 1.08 | 440 | 6.64E+02 | 5.88 |
| PCB-134 22'33'56-HxCB | ND | | 1.1238 | | | | | 0.78 | ND | 6.64E+02 | 8.15 |
| PCB-143 22'3456'-HxCB | ND | | 1.1264 | | | | | 0.97 | ND | 6.64E+02 | 6.55 |
| PCB-139/140 ...-HxCB | ND | C | 1.1348 | | | | | 1.03 | ND | 6.64E+02 | 6.16 |
| PCB-131 22'33'46-HxCB | ND | | 1.1412 | | | | | 0.91 | ND | 6.64E+02 | 6.99 |
| PCB-142 22'3456-HxCB | ND | | 1.1457 | | | | | 0.89 | ND | 6.64E+02 | 7.16 |
| PCB-132 22'33'46'-HxCB | 34.15 | B EMPC | 1.1544 | 1.1546 | +0.4 | 1.11E+05 | 1.04 | 0.94 | 106 | 6.64E+02 | 6.76 |
| PCB-133 22'33'55'-HxCB | ND | | 1.1672 | | | | | 1.03 | ND | 6.64E+02 | 6.18 |
| PCB-165 233'55'6-HxCB | ND | | 0.9512 | | | | | 1.23 | ND | 6.64E+02 | 5.17 |
| PCB-146 22'34'55'-HxCB | 35.08 | B | 0.9571 | 0.9571 | 0 | 5.00E+04 | 1.42 | 1.17 | 38 | 6.64E+02 | 5.43 |
| PCB-161 233'45'6-HxCB | ND | | 0.9601 | | | | | 1.42 | ND | 6.64E+02 | 4.47 |
| PCB-153/168 ...-HxCB | 35.60 | B C | 0.9718 | 0.9713 | -1.1 | 5.49E+05 | 1.28 | 1.27 | 385 | 6.64E+02 | 5 |
| PCB-141 22'3455'-HxCB | 35.79 | B EMPC | 0.9762 | 0.9764 | +0.4 | 1.07E+05 | 1.50 | 0.96 | 100 | 6.64E+02 | 6.65 |
| PCB-130 22'33'45'-HxCB | ND | | 0.9857 | | | | | 0.83 | ND | 6.64E+02 | 7.64 |
| PCB-137 22'344'5-HxCB | ND | | 0.9909 | | | | | 1.01 | ND | 6.64E+02 | 6.29 |
| PCB-164 233'4'5'6-HxCB | 36.41 | J EMPC | 0.9935 | 0.9933 | -0.4 | 2.10E+04 | 2.15 | 1.33 | 14.1 | 6.64E+02 | 4.8 |
| PCB-163/138/129 ...-HxCB | 36.68 | B C | 1.0011 | 1.0006 | -1.1 | 4.01E+05 | 1.14 | 1.03 | 346 | 6.64E+02 | 6.16 |
| PCB-160 233'456-HxCB | ND | | 1.0045 | | | | | 1.20 | ND | 6.64E+02 | 5.29 |
| PCB-158 233'44'6-HxCB | 37.01 | B EMPC | 1.0096 | 1.0097 | +0.2 | 3.75E+04 | 1.54 | 1.35 | 24.7 | 6.64E+02 | 4.7 |

Lab ID: B9770_21382_PCB_003

ACQ: 17-Sep-2024 22:56:56 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#2 Mill On

UTP: 27-Sep-2024 13:09:34 PSW

J-level: 20 pg Split: 2

Checkcode: 188-654-MXT/C

Datafile: 240917S13

RPT: 27-Sep-2024 13:16 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

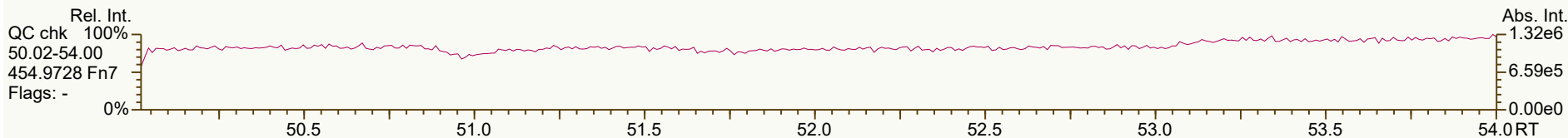
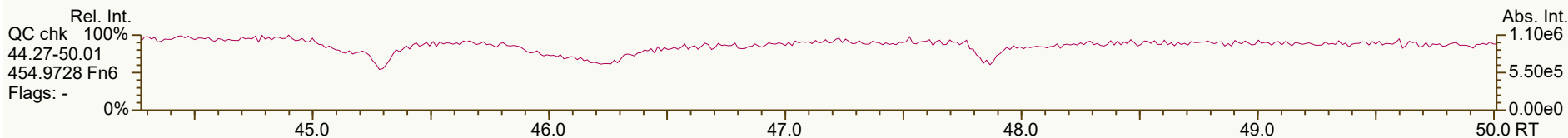
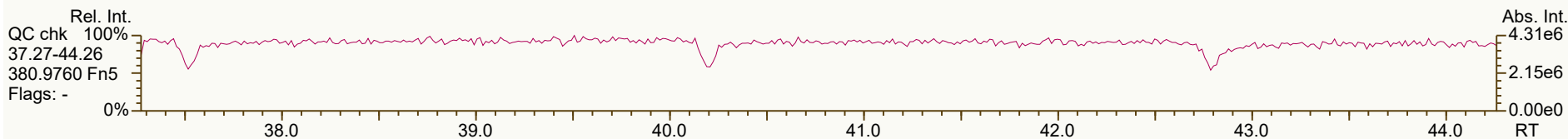
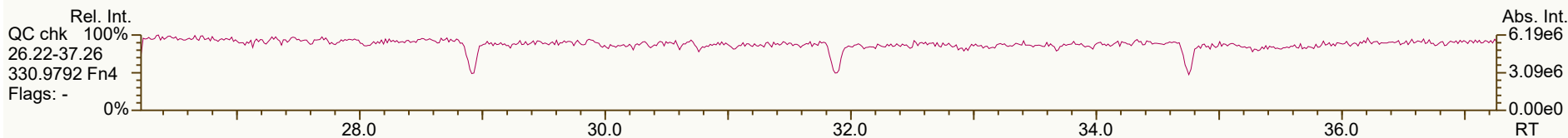
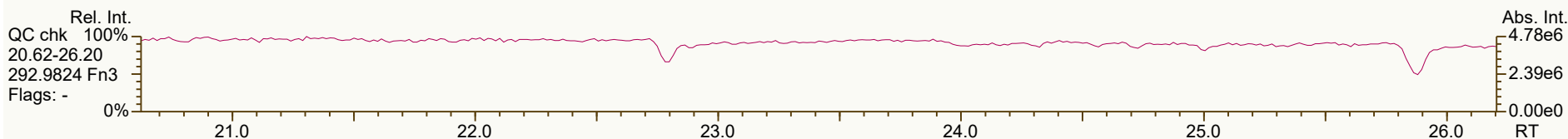
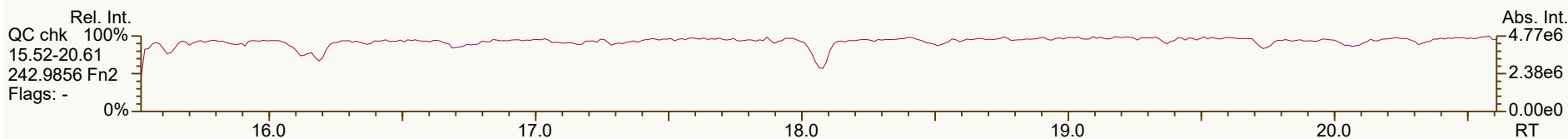
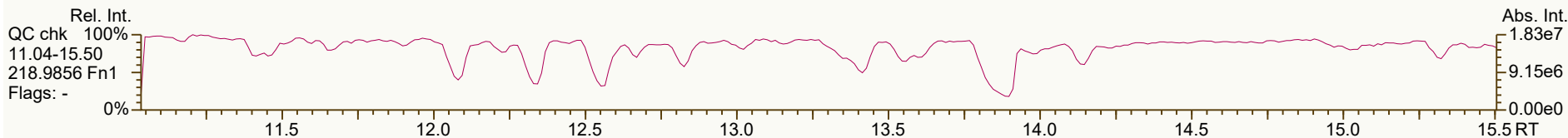
Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-------------------|--------|-------------------|-------------------|--------------|---------------------|-----------------|-----------------|-------------------|-------------------|-----------------|
| PCB-128/166 ...-HxCB | 37.77 | J C | 0.9635 | 0.9643 | +1.8 | 4.10E+04 | 1.33 | 0.88 | 35.7 | 9.69E+02 | 8.9 |
| PCB-159 233'455'-HxCB | 38.53 | J | 0.9840 | 0.9836 | -0.9 | 1.34E+04 | 1.17 | 1.16 | 8.89 | 9.69E+02 | 6.75 |
| PCB-162 233'4'55'-HxCB | ND | | 0.9902 | | | | | 0.99 | ND | 9.69E+02 | 7.92 |
| PCB-188 22'34'566'-HpCB | ND | | 1.0006 | | | | | 1.55 | ND | 5.97E+02 | 4.53 |
| PCB-179 22'33'566'-HpCB | 34.78 | B | 1.0095 | 1.0096 | +0.2 | 8.21E+04 | 0.97 | 1.32 | 72.6 | 5.97E+02 | 5.32 |
| PCB-184 22'344'66'-HpCB | ND | | 1.0219 | | | | | 1.20 | ND | 5.97E+02 | 5.83 |
| PCB-176 22'33'466'-HpCB | 35.52 | | 1.0312 | 1.0311 | -0.2 | 3.04E+04 | 1.16 | 1.13 | 31.2 | 5.97E+02 | 6.2 |
| PCB-186 22'34566'-HpCB | ND | | 1.0427 | | | | | 1.35 | ND | 5.97E+02 | 5.17 |
| PCB-178 22'33'55'6'-HpCB | 37.02 | EMPC | 1.0752 | 1.0748 | -0.9 | 3.71E+04 | 1.27 | 0.90 | 48.1 | 5.97E+02 | 7.82 |
| PCB-175 22'33'45'6'-HpCB | ND | | 1.0908 | | | | | 0.96 | ND | 1.30E+03 | 13.5 |
| PCB-187 22'34'55'6'-HpCB | 37.80 | | 1.0974 | 1.0974 | 0 | 2.70E+05 | 0.96 | 1.18 | 206 | 1.30E+03 | 11 |
| PCB-182 22'344'56'-HpCB | ND | | 1.1024 | | | | | 1.13 | ND | 1.30E+03 | 11.4 |
| PCB-183 22'344'5'6'-HpCB | 38.32 | B EMPC | 1.1124 | 1.1123 | -0.2 | 1.17E+05 | 1.24 | 1.07 | 98.4 | 1.30E+03 | 12.1 |
| PCB-185 22'3455'6'-HpCB | 38.41 | | 1.1152 | 1.1152 | 0 | 2.48E+04 | 0.92 | 0.92 | 24.2 | 1.30E+03 | 14.1 |
| PCB-174 22'33'456'-HpCB | 38.53 | B | 1.1187 | 1.1186 | -0.2 | 1.84E+05 | 0.97 | 1.02 | 161 | 1.30E+03 | 12.7 |
| PCB-177 22'33'45'6'-HpCB | 38.90 | | 1.1296 | 1.1292 | -0.9 | 7.27E+04 | 0.96 | 1.03 | 63.4 | 1.30E+03 | 12.6 |
| PCB-181 22'344'56'-HpCB | ND | | 1.1391 | | | | | 1.08 | ND | 1.30E+03 | 12 |
| PCB-171/173 ...-HpCB | 39.43 | J C | 1.1447 | 1.1445 | -0.5 | 3.09E+04 | 0.95 | 0.91 | 30.3 | 1.30E+03 | 14.2 |
| PCB-172 22'33'455'-HpCB | ND | | 0.9065 | | | | | 0.96 | ND | 1.30E+03 | 13.5 |
| PCB-192 233'455'6'-HpCB | ND | | 0.9118 | | | | | 1.39 | ND | 1.30E+03 | 9.34 |
| PCB-180/193 ...-HpCB | 41.32 | B C | 0.9181 | 0.9187 | +1.5 | 2.66E+05 | 1.03 | 1.15 | 207 | 1.30E+03 | 11.3 |
| PCB-191 233'44'5'6'-HpCB | ND | | 0.9253 | | | | | 1.24 | ND | 1.30E+03 | 10.5 |
| PCB-170 22'33'44'5'-HpCB | 42.40 | B EMPC | 0.9427 | 0.9428 | +0.3 | 5.22E+04 | 1.34 | 1.04 | 49.1 | 1.30E+03 | 14 |
| PCB-190 233'44'56'-HpCB | ND | | 0.9525 | | | | | 1.43 | ND | 1.30E+03 | 10.1 |
| PCB-202 22'33'55'66'-OcCB | 38.98 | J EMPC | 1.0005 | 1.0004 | -0.2 | 1.54E+04 | 0.60 | 1.32 | 11.4 | 6.03E+02 | 4.72 |
| PCB-201 22'33'45'66'-OcCB | 39.78 | J | 1.0204 | 1.0208 | +1.0 | 1.24E+04 | 0.91 | 0.95 | 12.7 | 6.03E+02 | 6.54 |
| PCB-204 22'344'566'-OcCB | ND | | 1.0349 | | | | | 1.09 | ND | 6.03E+02 | 5.7 |
| PCB-197 22'33'44'66'-OcCB | ND | | 1.0399 | | | | | 1.04 | ND | 6.03E+02 | 6 |
| PCB-200 22'33'4566'-OcCB | ND | | 1.0428 | | | | | 0.98 | ND | 6.03E+02 | 6.37 |
| PCB-198/199 ...-OcCB | 42.96 | C | 1.1020 | 1.1024 | +1.0 | 4.31E+04 | 0.97 | 0.88 | 48.3 | 6.03E+02 | 7.12 |
| PCB-196 22'33'44'56'-OcCB | 43.51 | EMPC | 1.1166 | 1.1165 | -0.3 | 1.63E+04 | 0.50 | 0.78 | 20.4 | 6.03E+02 | 7.94 |
| PCB-203 22'344'55'6'-OcCB | 43.67 | J EMPC | 1.1208 | 1.1207 | -0.3 | 1.91E+04 | 0.52 | 0.97 | 19.3 | 6.03E+02 | 6.45 |
| PCB-195 22'33'44'56'-OcCB | 44.80 | J EMPC | 0.9499 | 0.9498 | -0.3 | 1.01E+04 | 1.17 | 0.74 | 11.2 | 6.35E+02 | 8.52 |
| PCB-194 22'33'44'55'-OcCB | 46.75 | J EMPC | 0.9914 | 0.9911 | -0.8 | 1.60E+04 | 0.55 | 0.81 | 16.2 | 6.35E+02 | 7.78 |
| PCB-205 233'44'55'6'-OcCB | ND | | 1.0004 | | | | | 1.12 | ND | 6.35E+02 | 5.64 |
| PCB-208 22'33'455'66'-NoCB | ND | | 1.0005 | | | | | 1.11 | ND | 2.52E+03 | 19.5 |
| PCB-207 22'33'44'566'-NoCB | ND | | 1.0180 | | | | | 0.90 | ND | 2.52E+03 | 24.1 |
| PCB-206 22'33'44'55'6'-NoCB | ND | | 1.0005 | | | | | 1.04 | ND | 2.52E+03 | 31.7 |
| AS PCB-32 FS | 19.947 | | 1.2584 | 1.2583 | -0.1 | 5.77E+06 | 1.07 | 0.77 | 81.2 % | 50% | 150% |
| AS PCB-97 FS | 30.726 | | 1.0317 | 1.0316 | -0.2 | 3.70E+06 | 1.45 | 0.86 | 71.6 % | 50% | 150% |
| AS PCB-159 NR | 38.526 | | 1.0511 | 1.0511 | 0 | 6.71E+06 | 1.13 | 1.57 | 79.9 % | 50% | 150% |
| | | | | | | | | | | 70% | 130% |

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_003.utp_res, saved 27-Sep-2024 13:09 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q scc: 188-654

Peak annotation: Areas, Centroids
PKD: n/a Printed: 27-Sep-2024 13:18 Page 1 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_003.utp_res, saved 27-Sep-2024 13:09 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4980, 8018 scc: 188-654

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 2 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



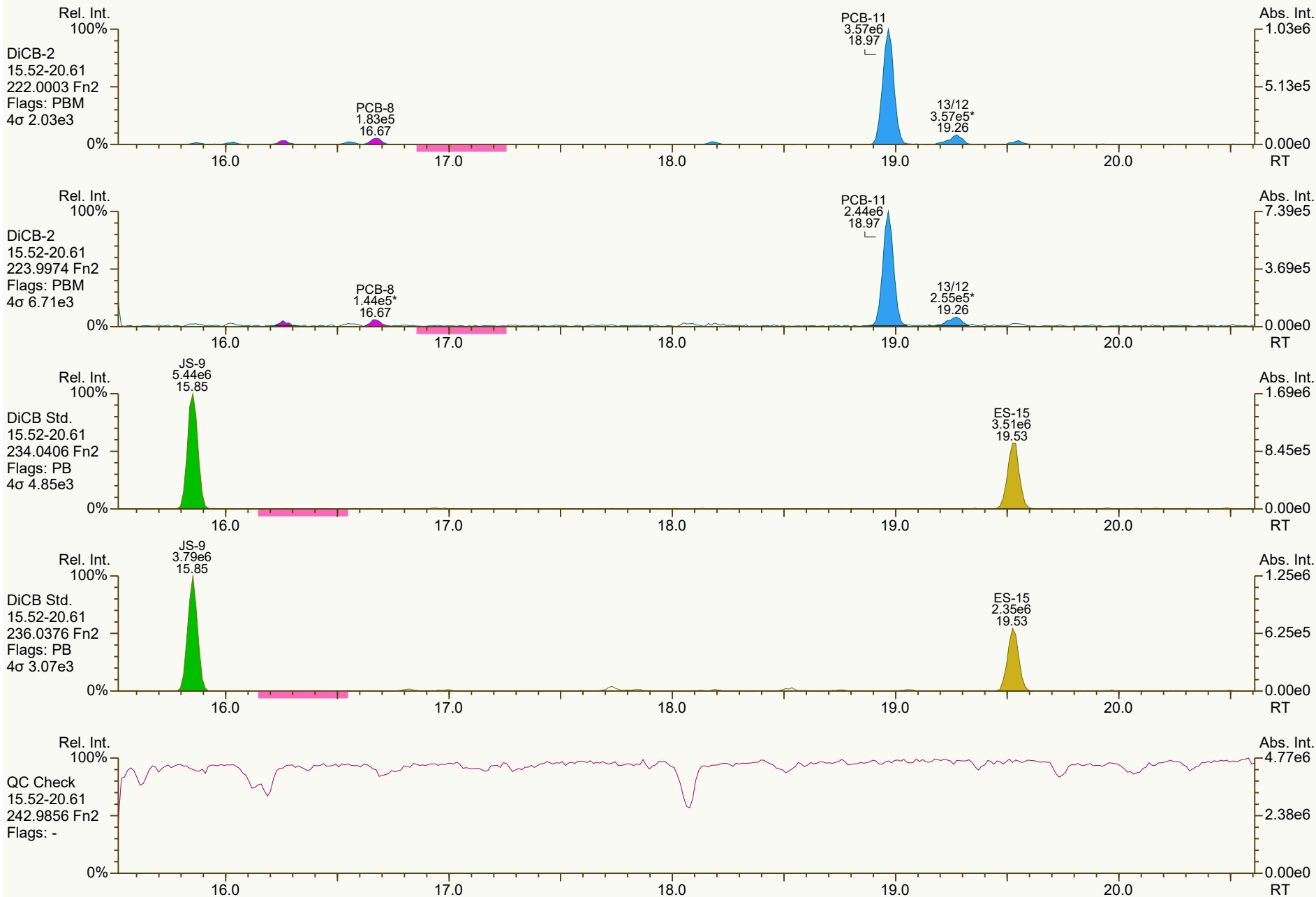
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 1648, 6821 scc: 188-654

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:02 (PSW) Printed: 27-Sep-2024 13:18 Page 3 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



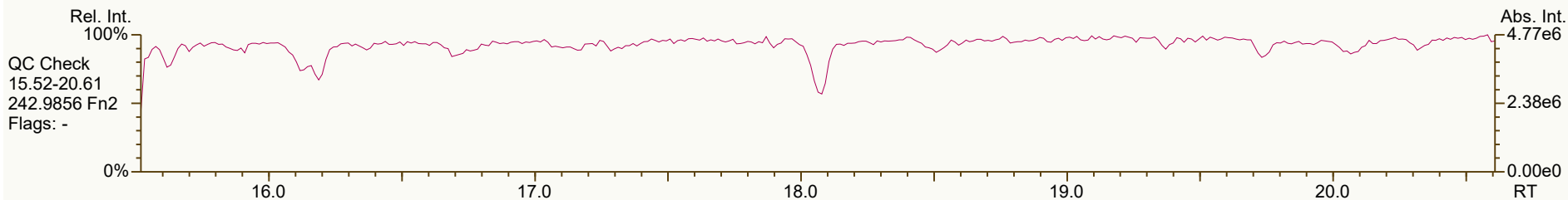
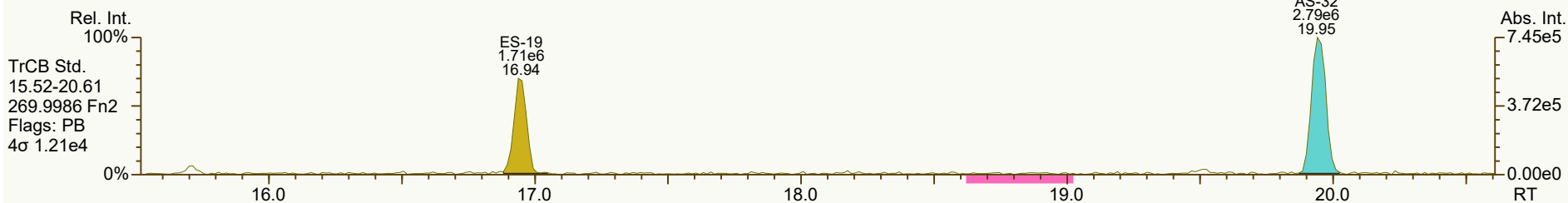
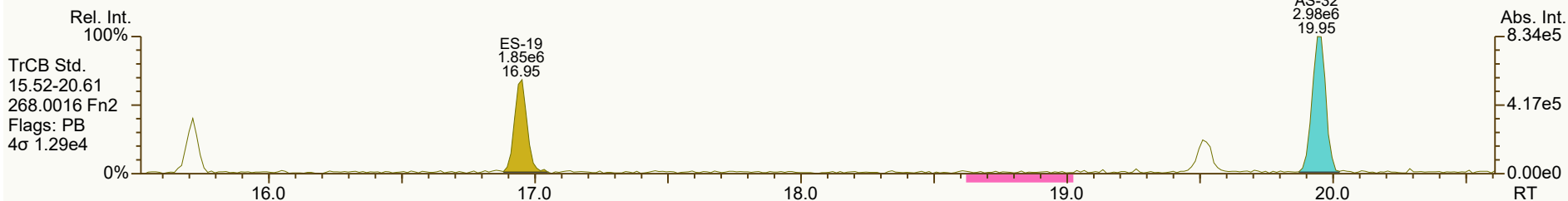
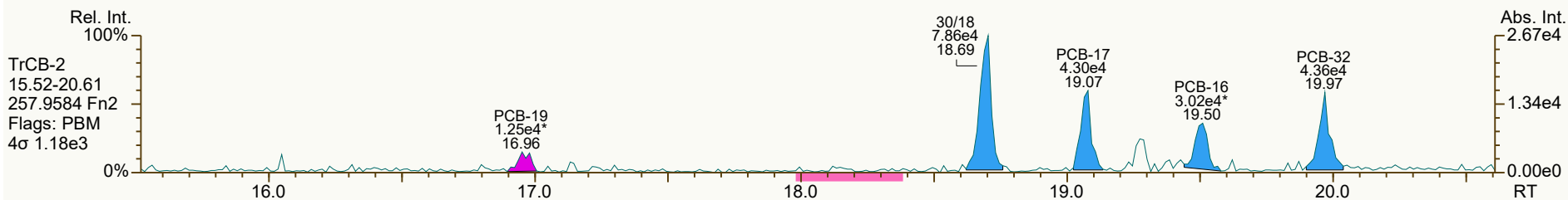
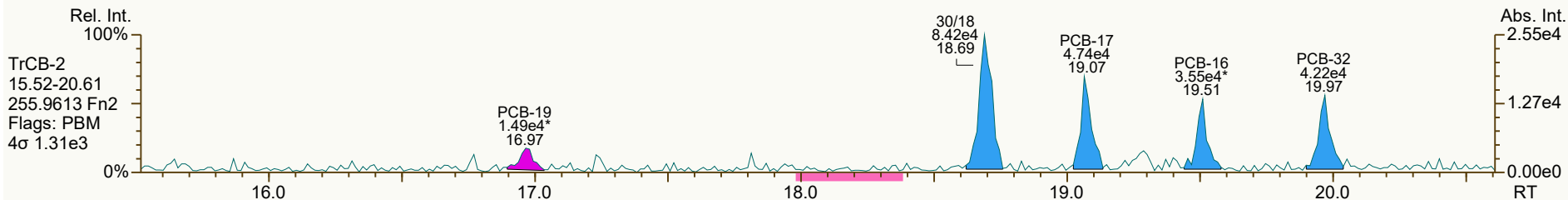
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2285, 3819 scc: 188-654

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 4 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



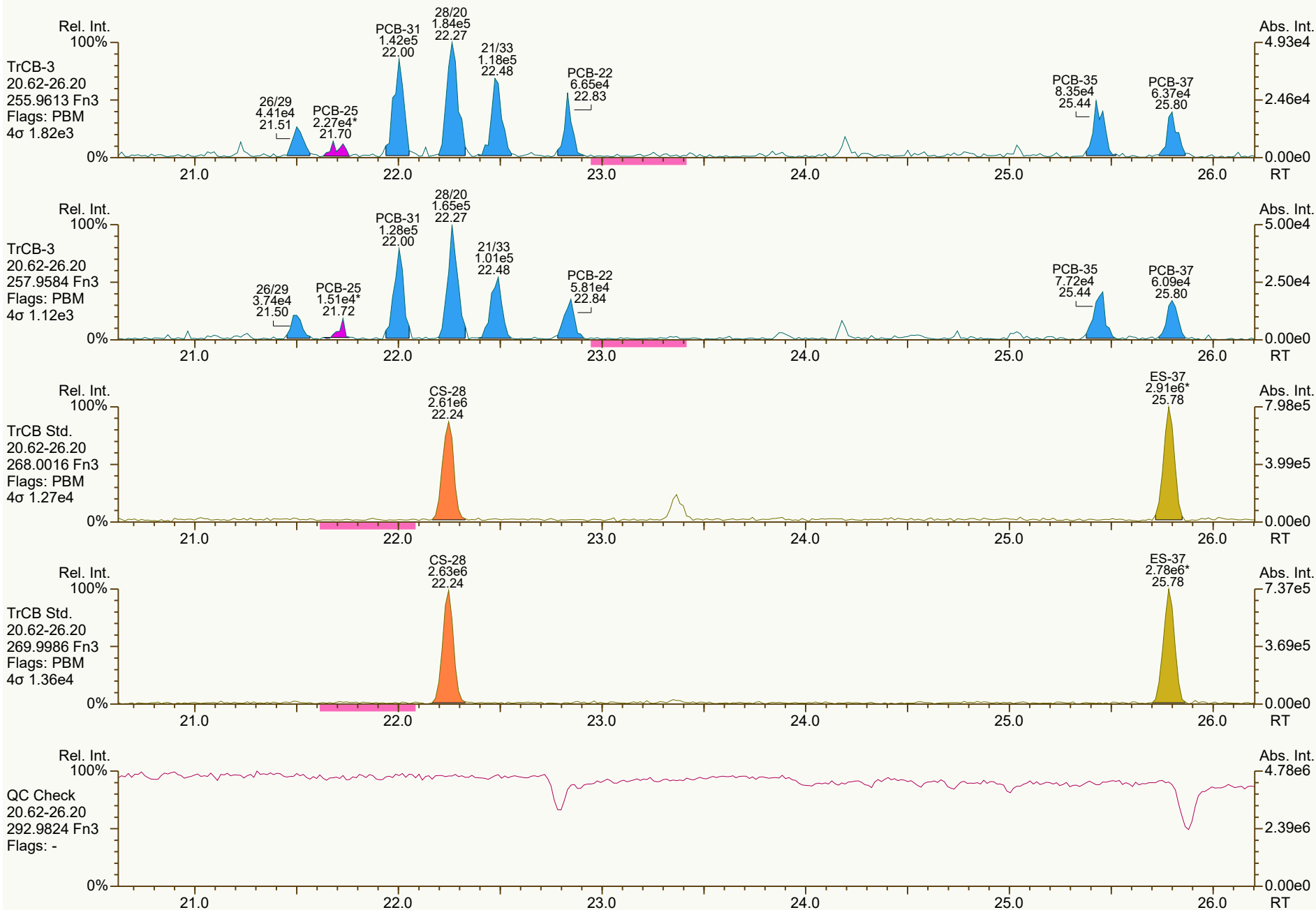
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 5026, 1960 scc: 188-654

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 5 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



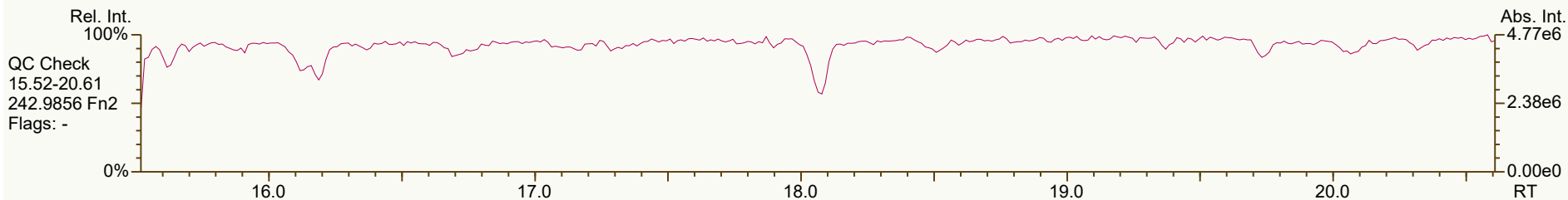
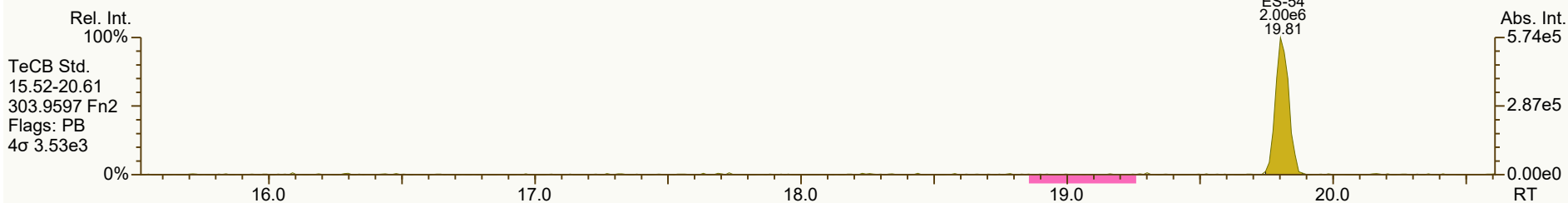
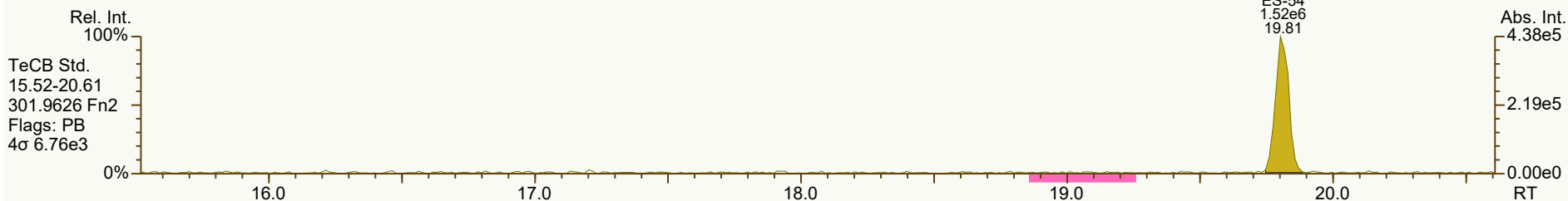
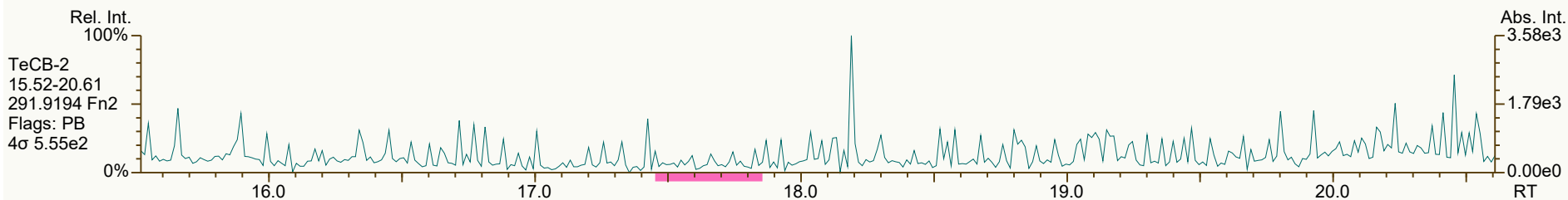
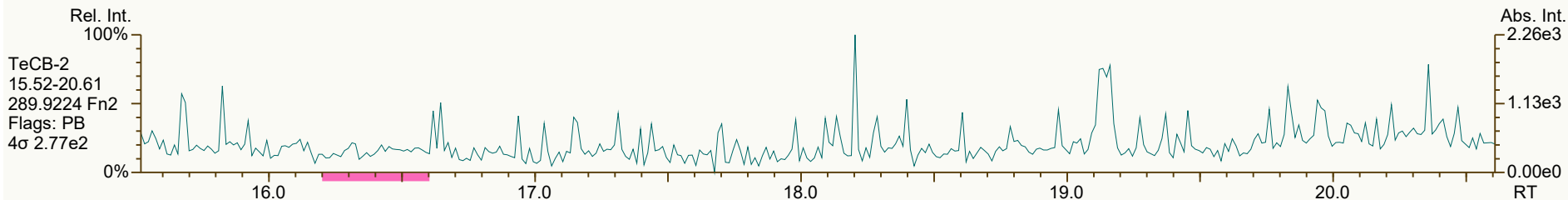
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8240, 5404 scc: 188-654

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 6 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



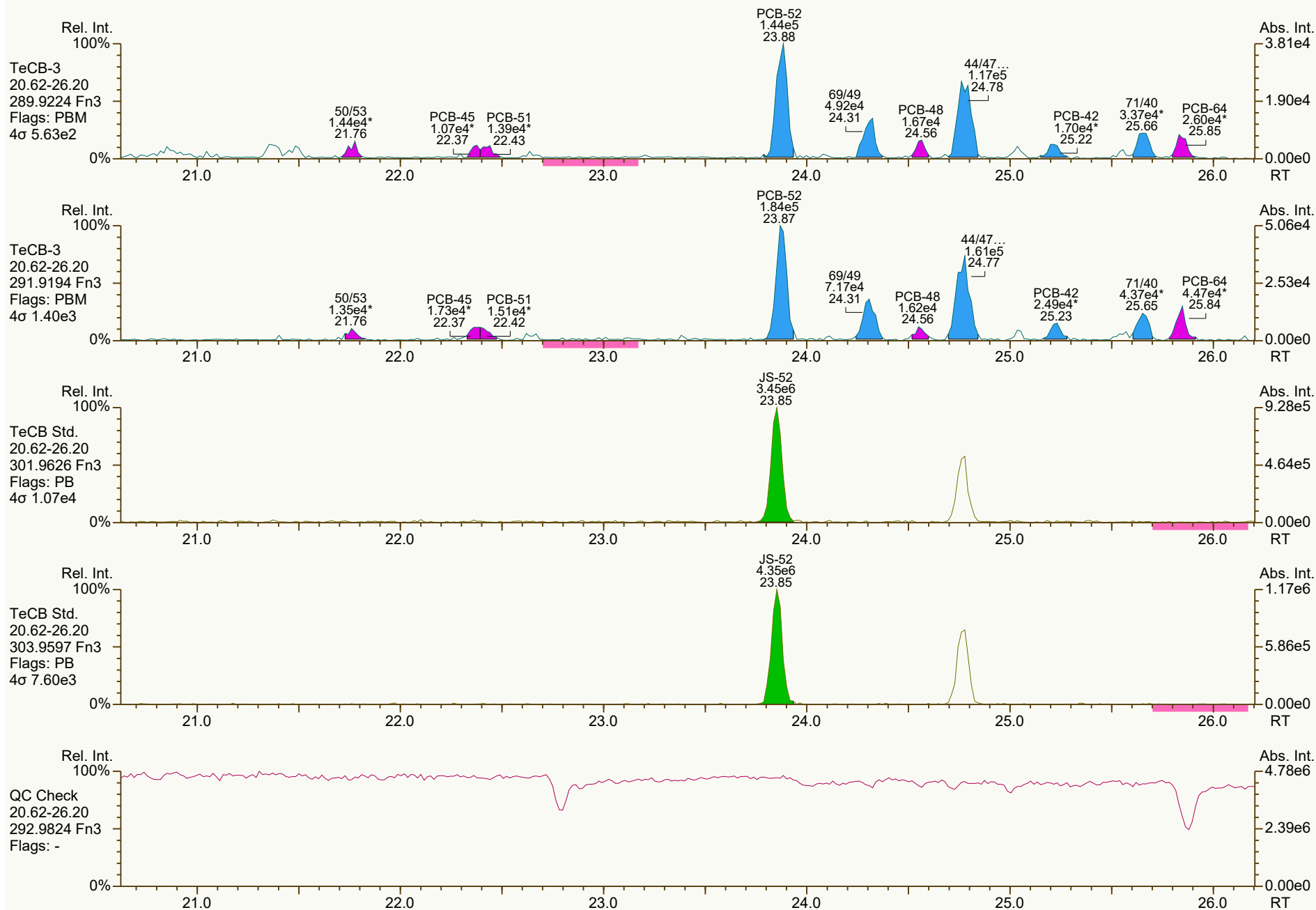
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9720, 9191 scc: 188-654

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:01 (PSW) Printed: 27-Sep-2024 13:18 Page 7 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



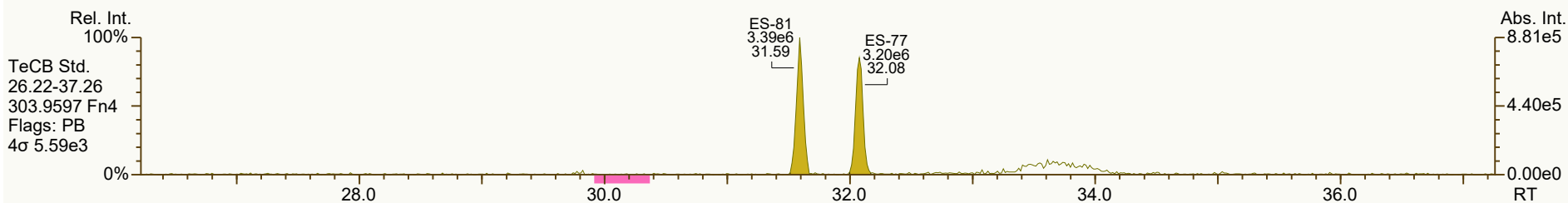
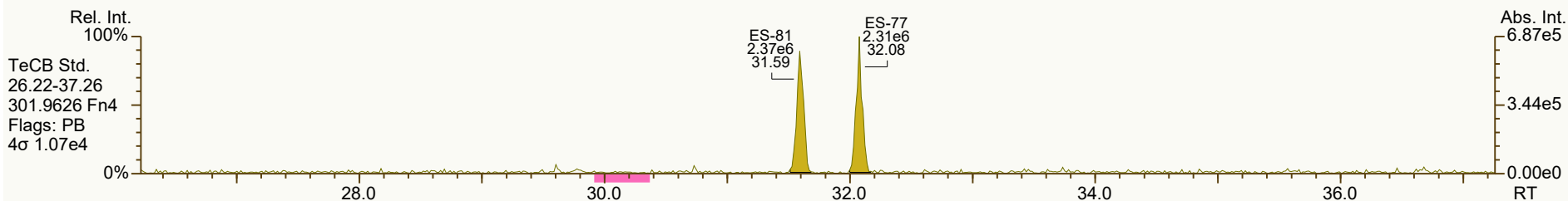
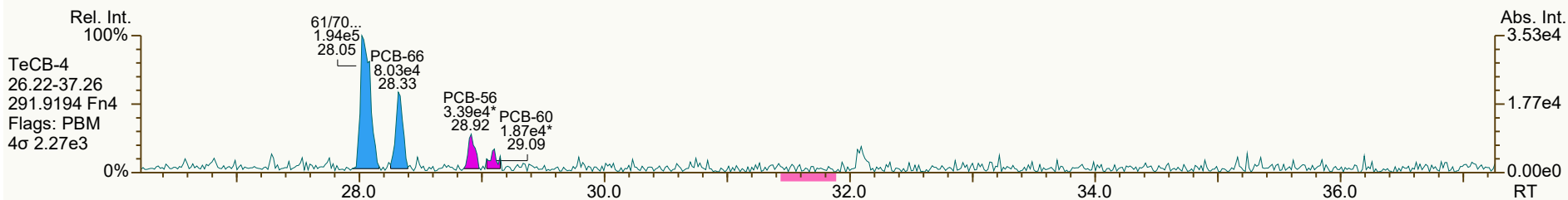
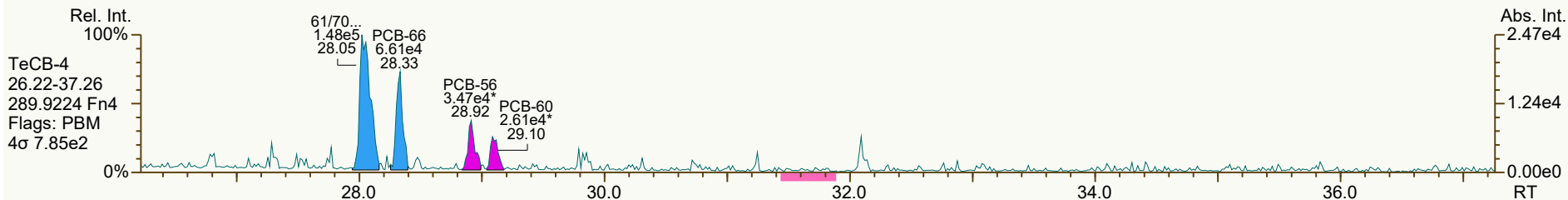
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9491, 0609 scc: 188-654

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 8 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



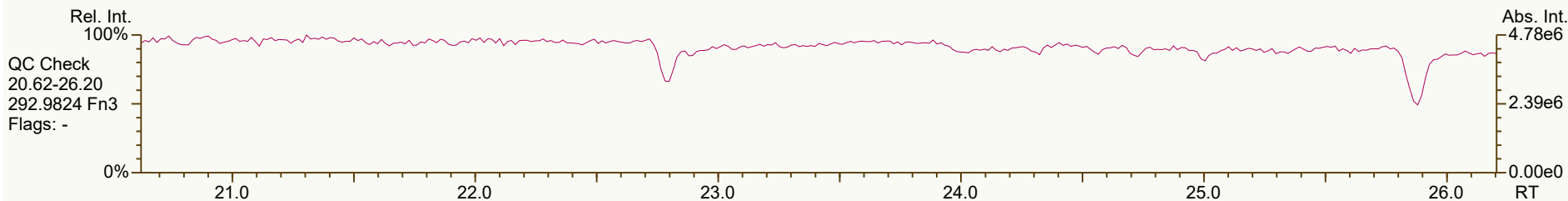
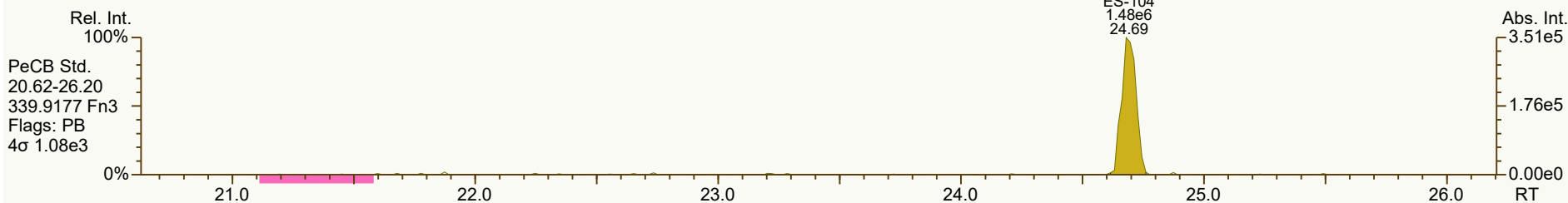
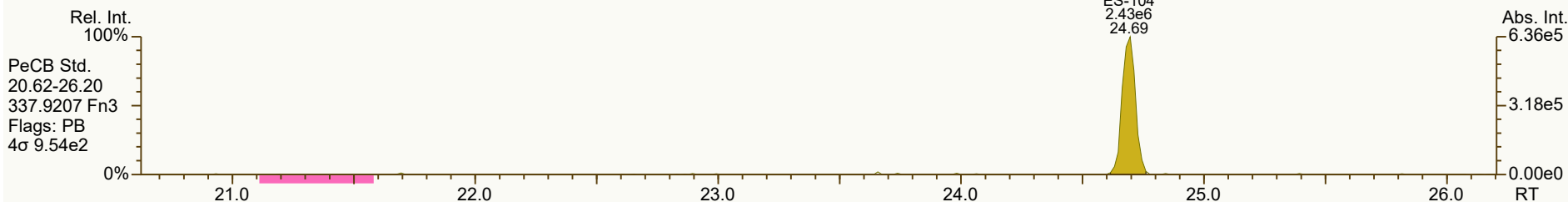
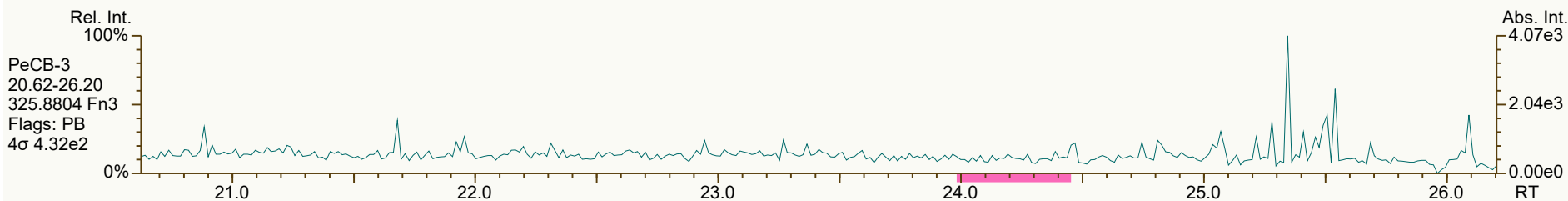
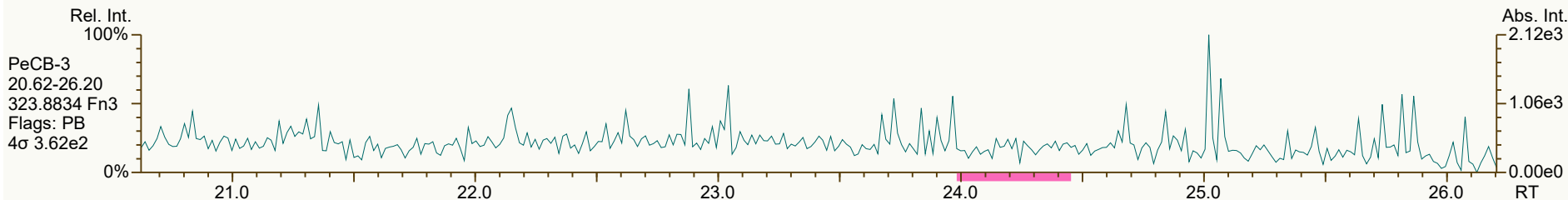
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2051, 1134 scc: 188-654

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 9 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



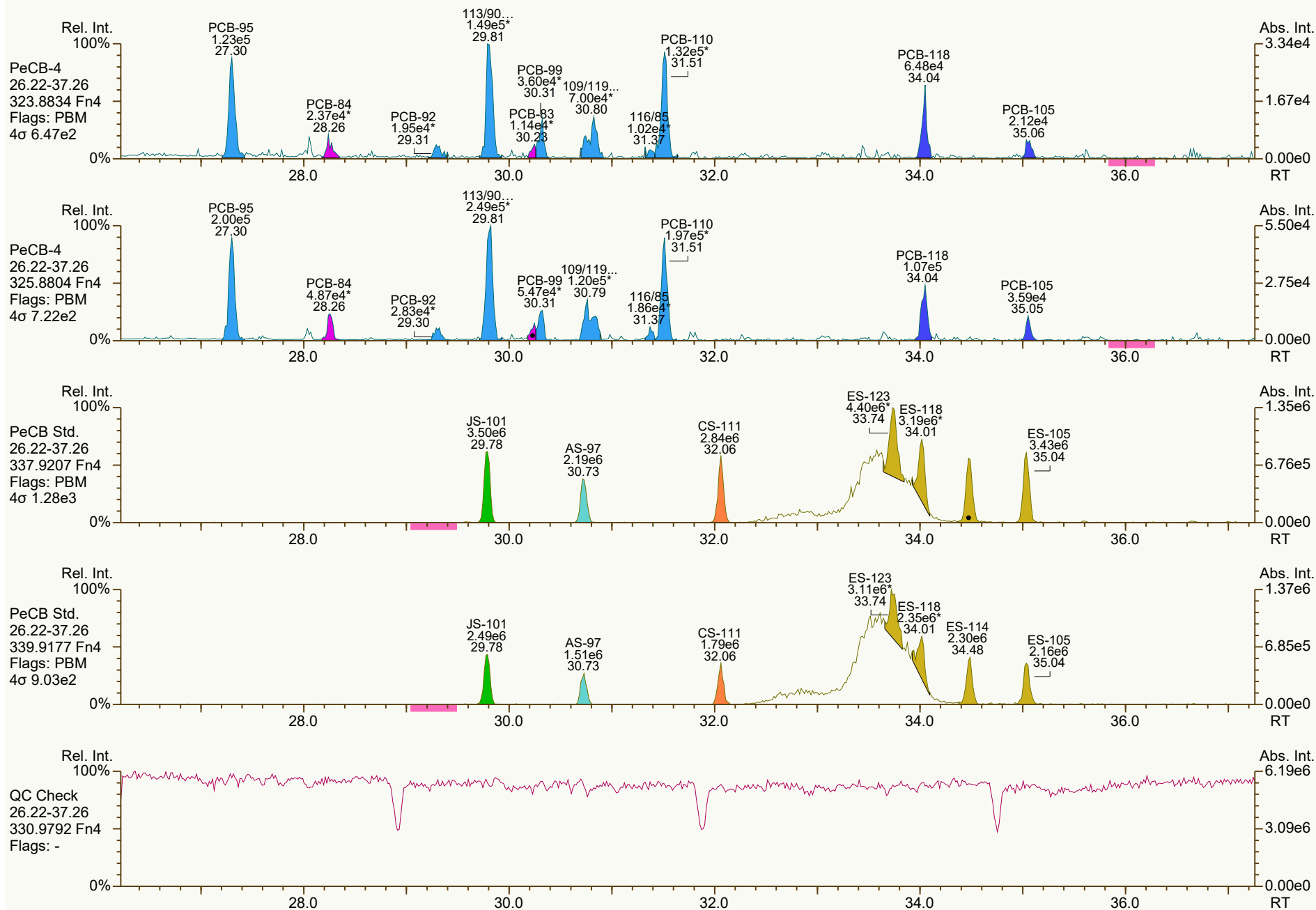
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8292, 8233 scc: 188-654

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:01 (PSW) Printed: 27-Sep-2024 13:18 Page 10 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



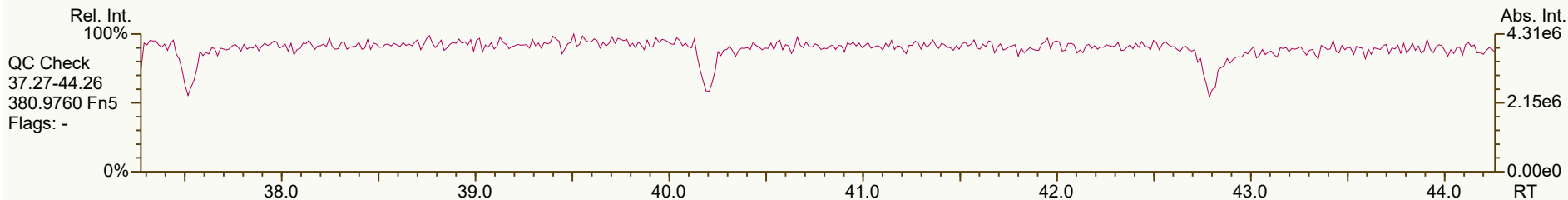
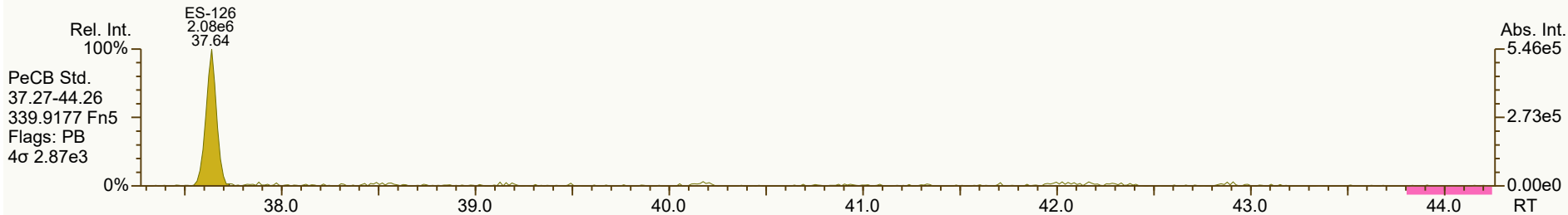
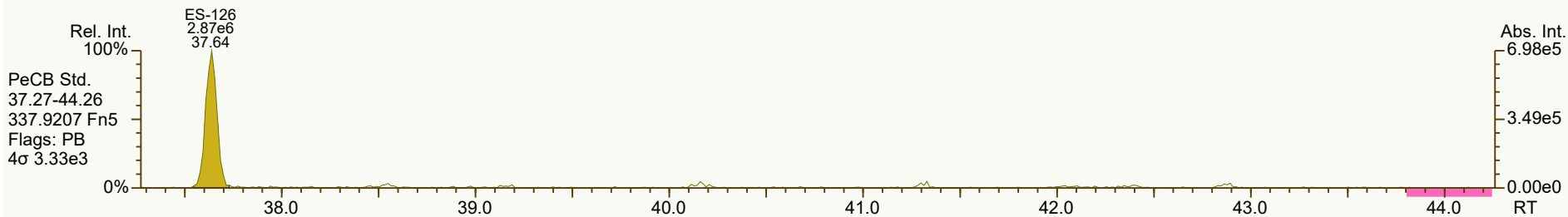
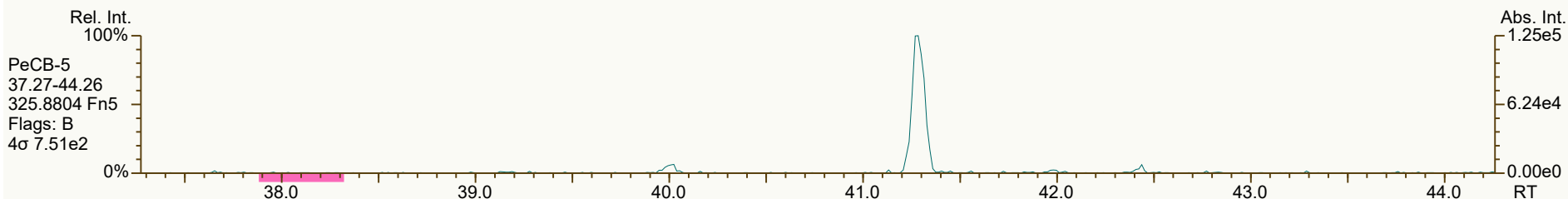
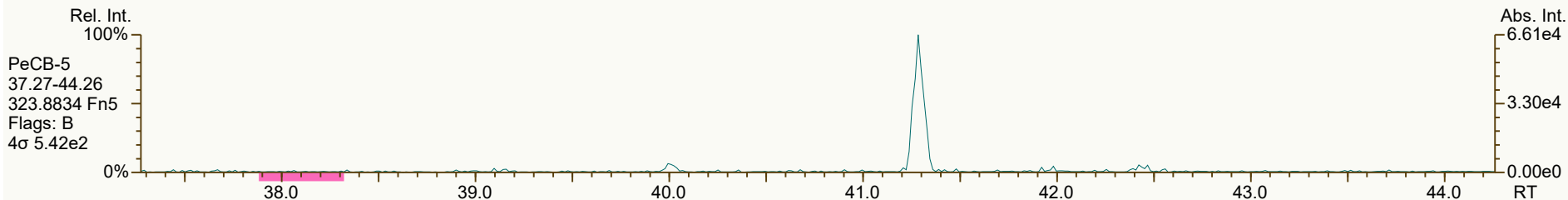
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 5585, 6690 scc: 188-654

Peak annotation: Areas, Centroids
Revised: 27-Sep-2024 13:08 (PSW) Printed: 27-Sep-2024 13:18 Page 11 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_003.utp_res, saved 27-Sep-2024 13:09 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6198, 4341 scc: 188-654

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 12 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



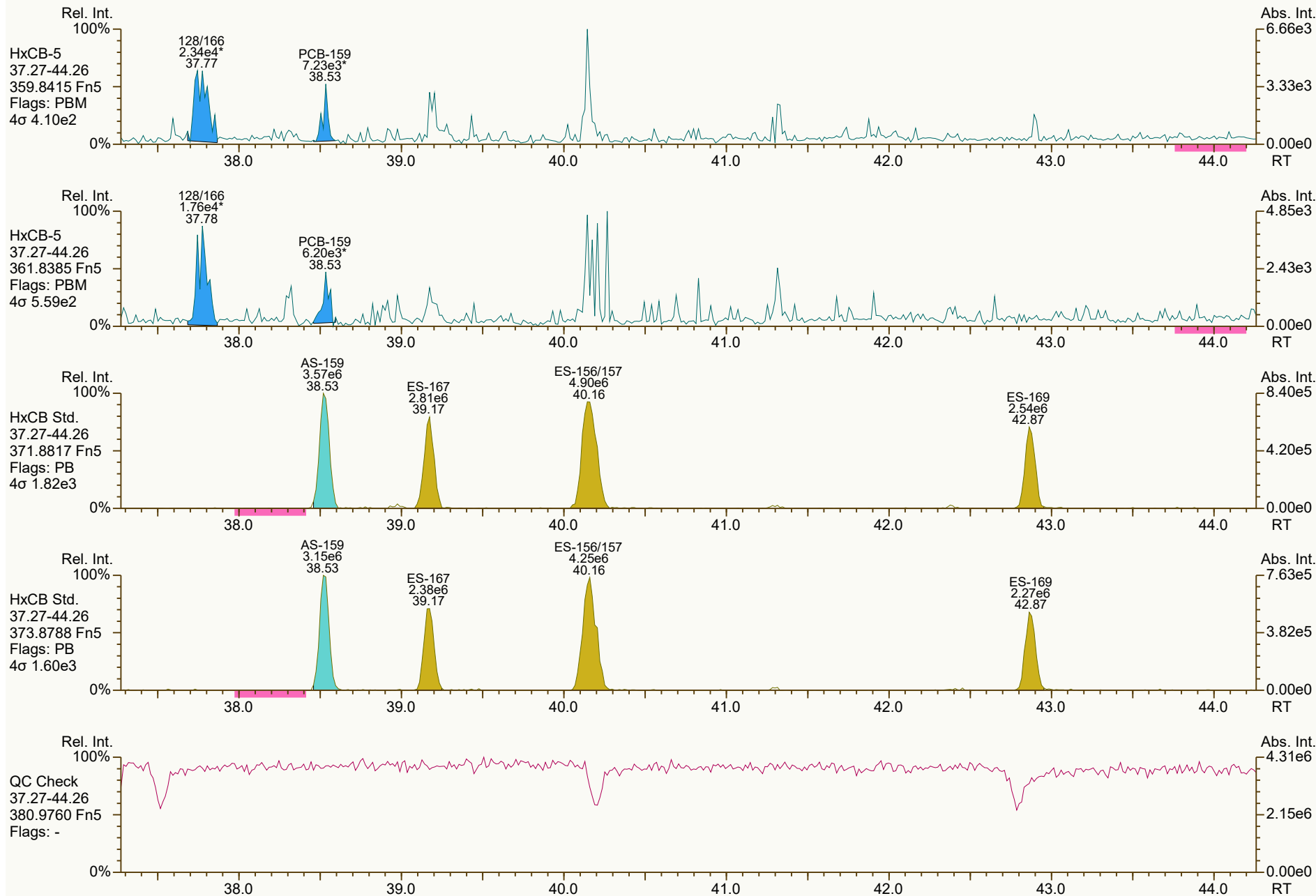
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 13 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 14 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6658, 6030 scc: 188-654

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:05 (PSW) Printed: 27-Sep-2024 13:18 Page 15 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



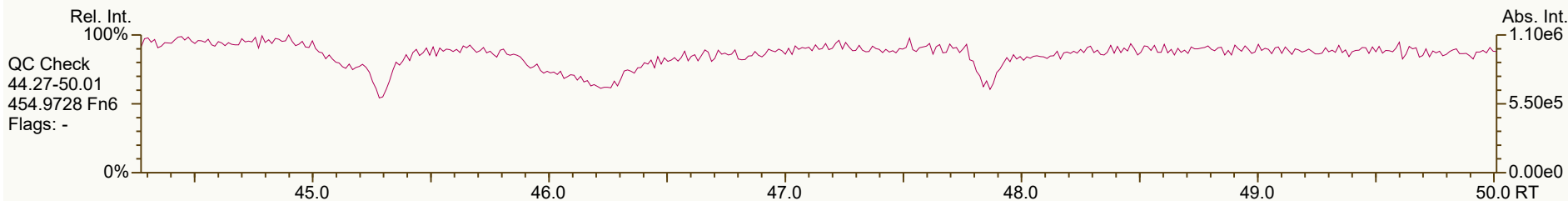
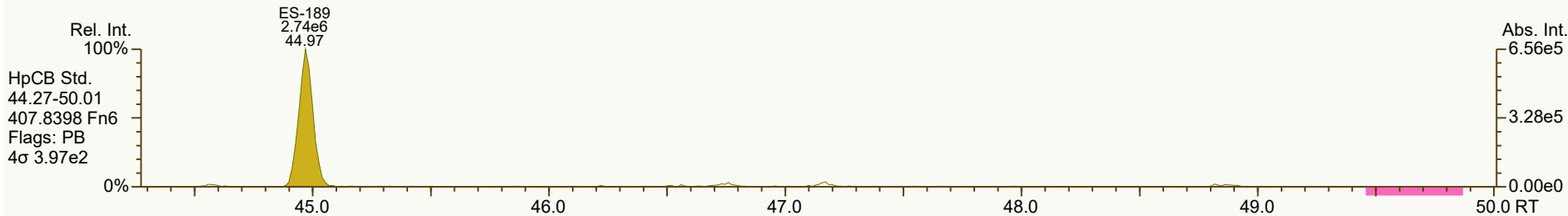
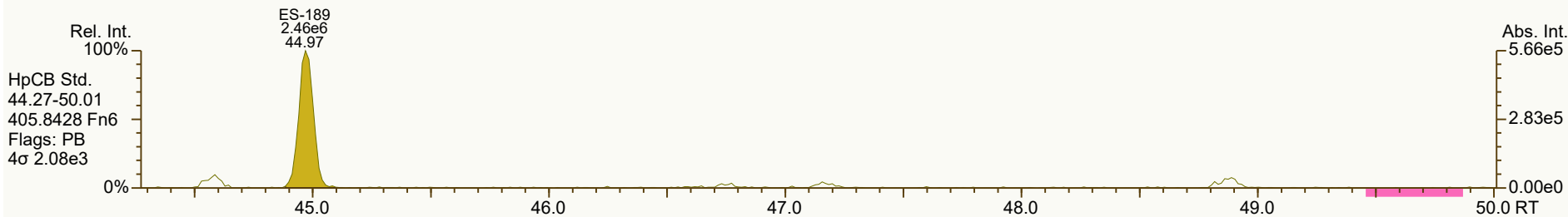
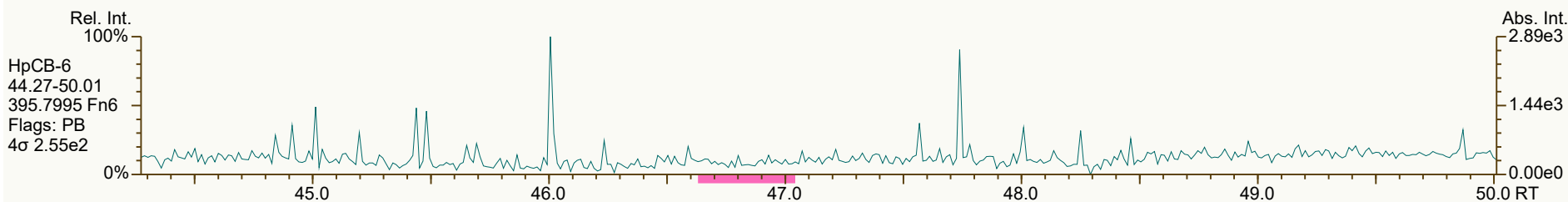
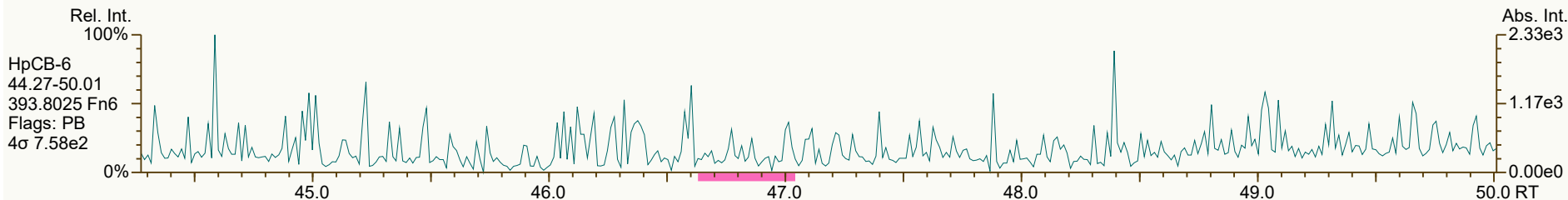
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 16 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



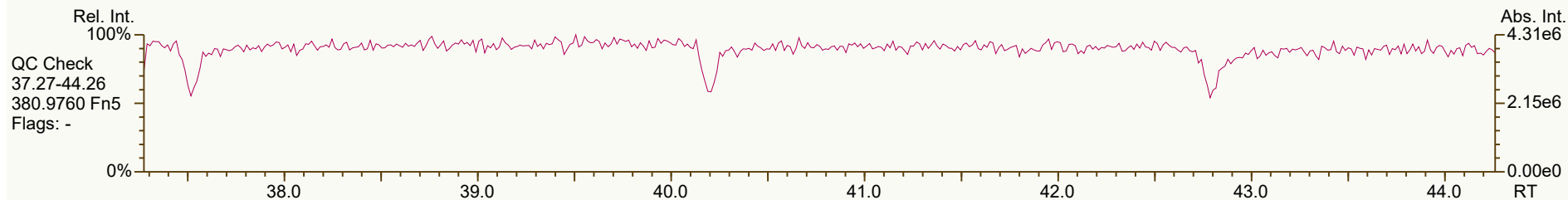
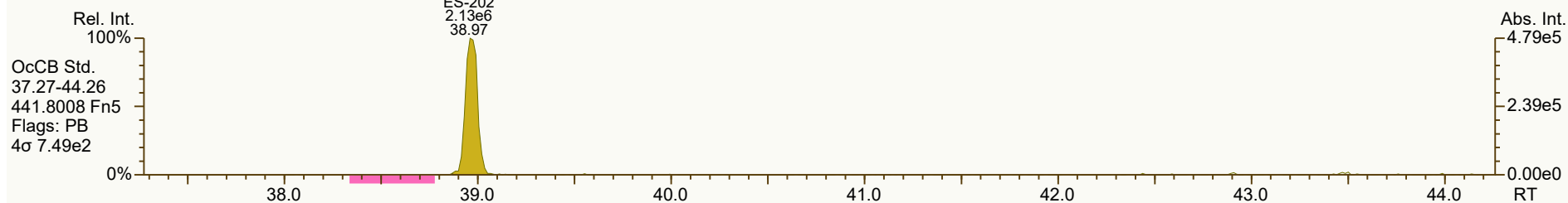
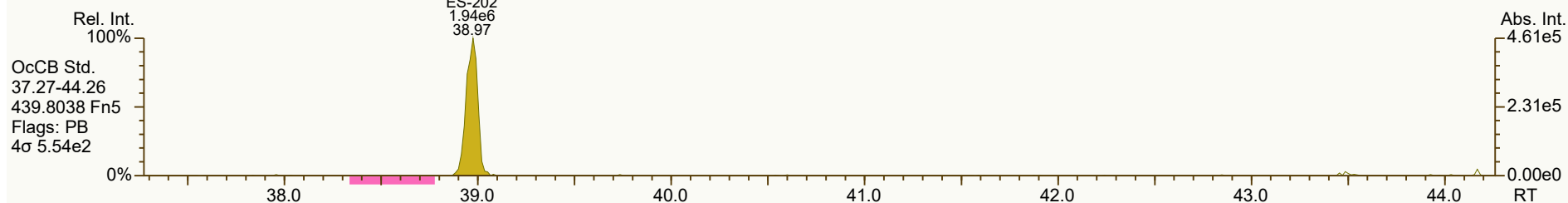
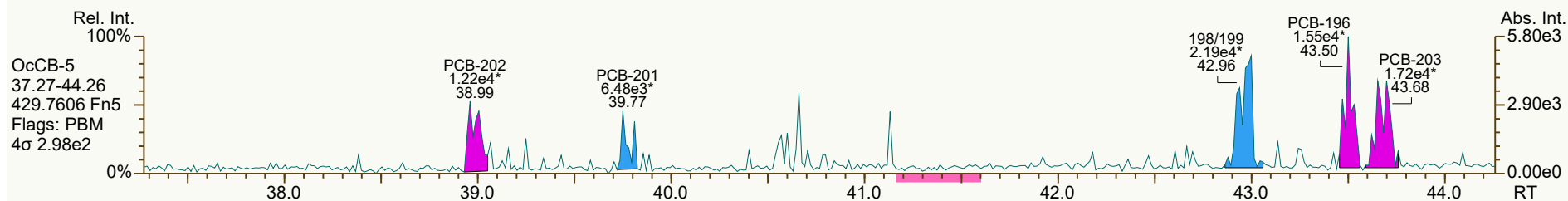
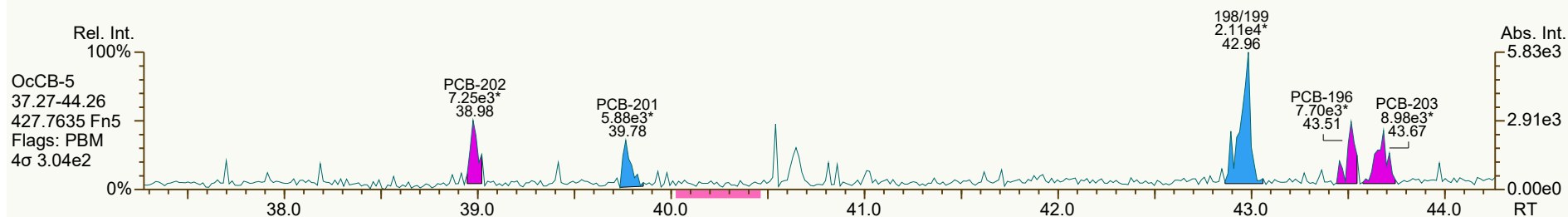
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 1460, 6475 scc: 188-654

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 17 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



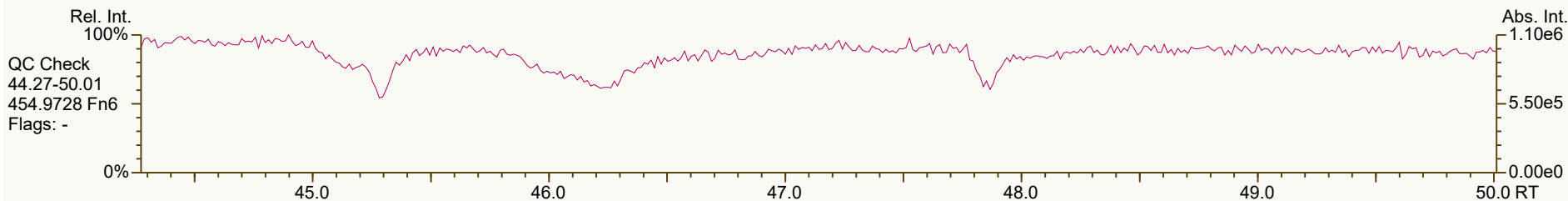
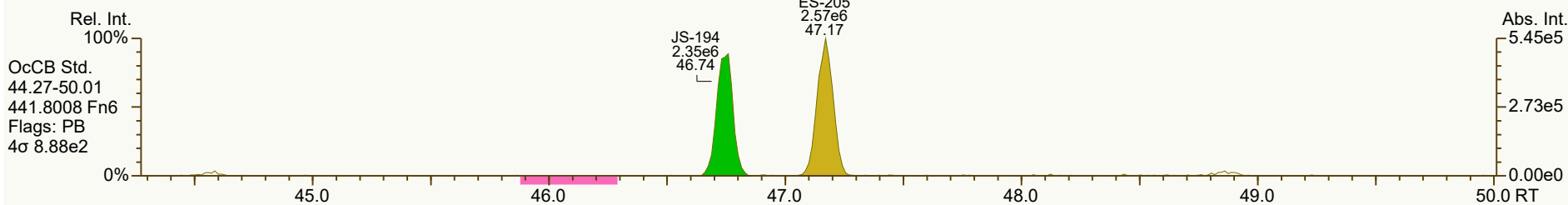
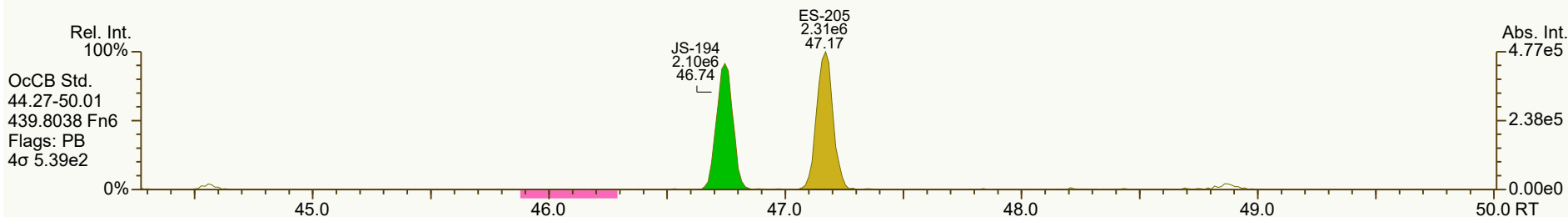
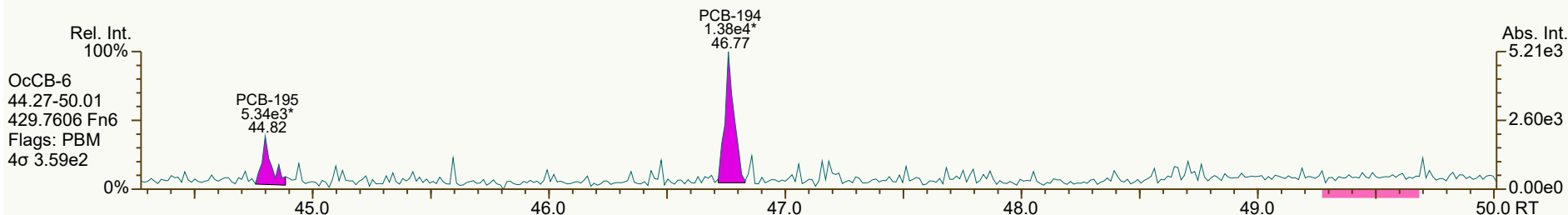
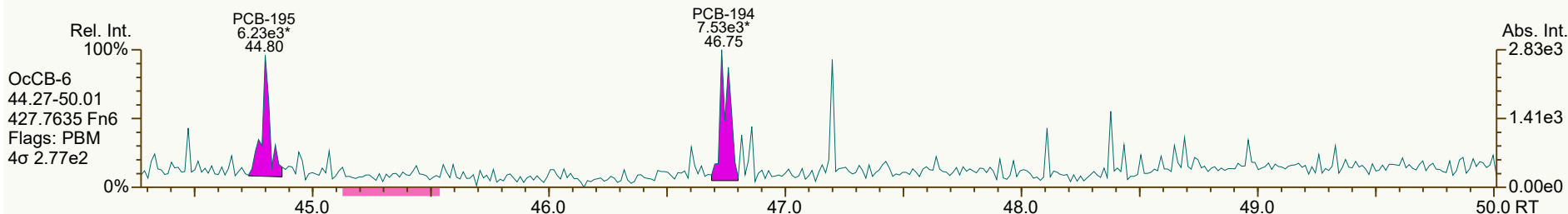
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8002, 8541 scc: 188-654

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 18 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



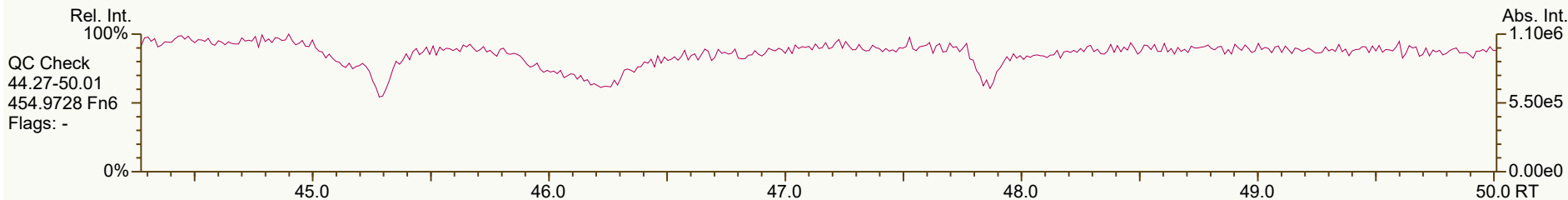
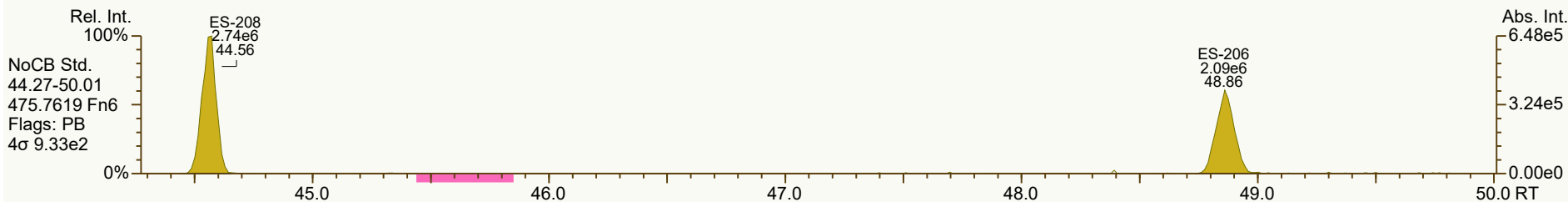
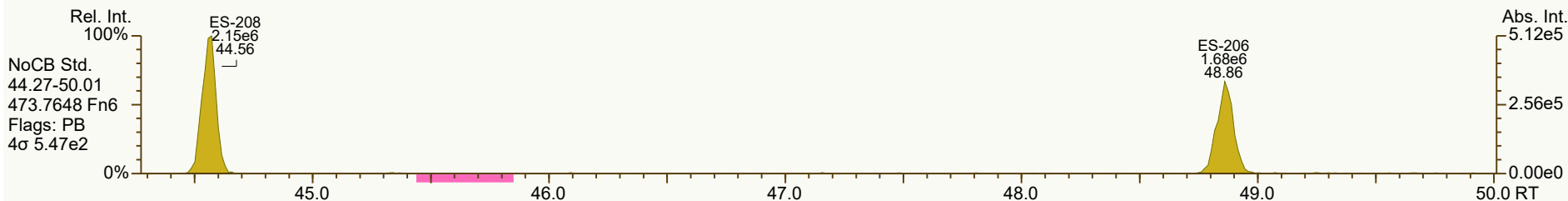
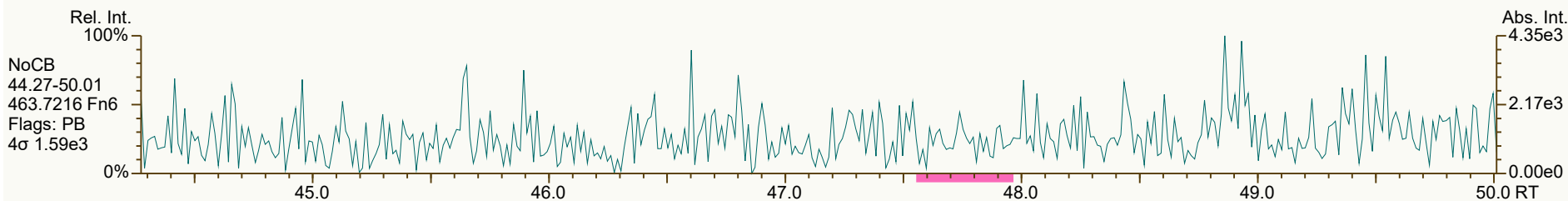
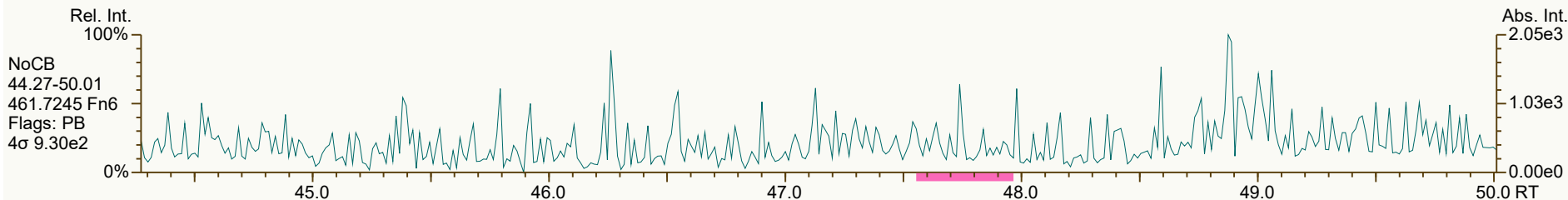
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4974, 2236 scc: 188-654

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 19 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



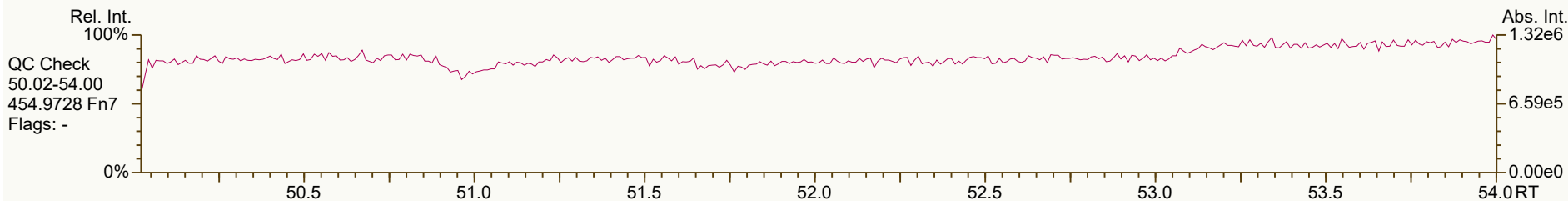
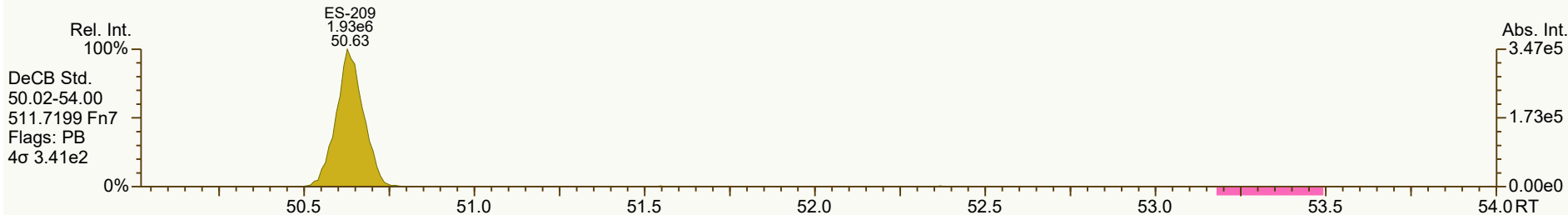
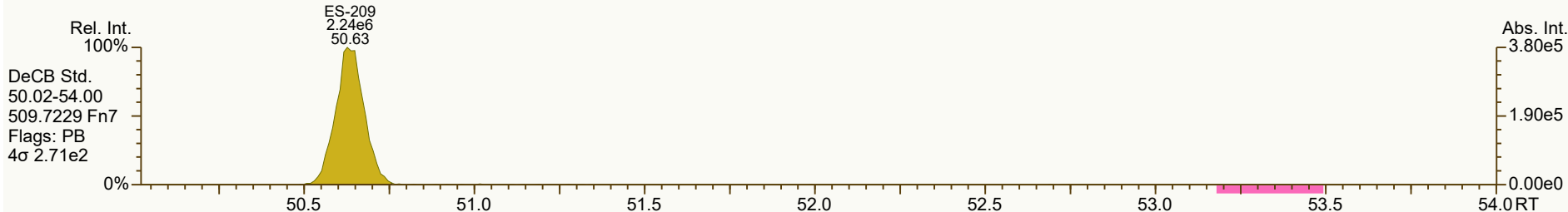
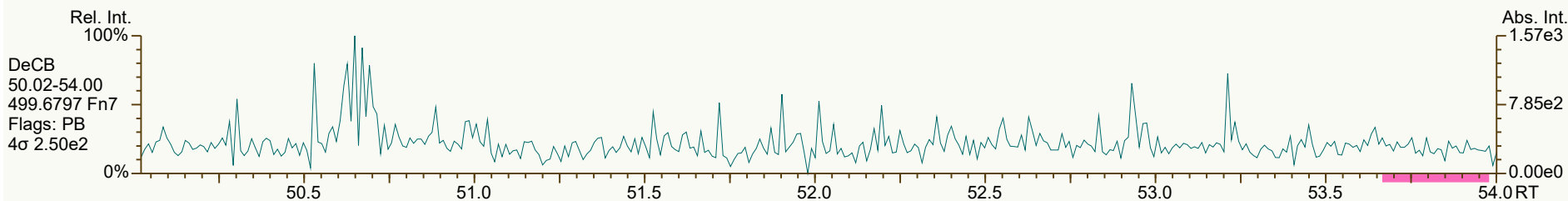
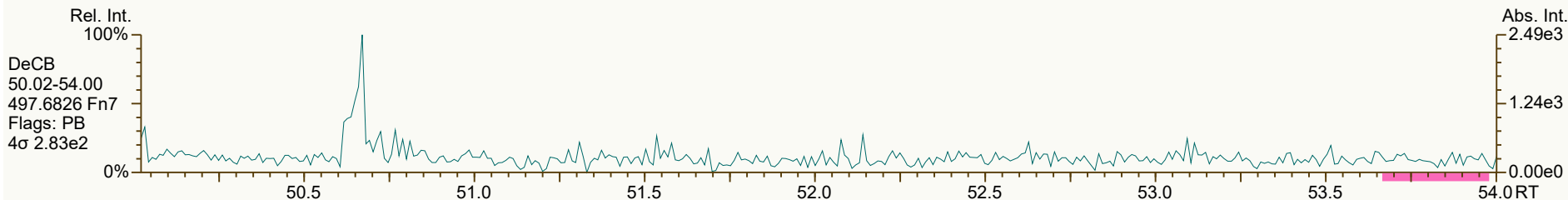
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 5255, 2016 scc: 188-654

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:07 Printed: 27-Sep-2024 13:18 Page 20 of 21

SGS ID: B9770_21382_PCB_003
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 72

Acq: 17-Sep-2024 22:56:56
User: RAB Datafile: 240917S13



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_003.utp_res, saved 27-Sep-2024 13:09 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 0647, 3107 scc: 188-654

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:01 (PSW) Printed: 27-Sep-2024 13:18 Page 21 of 21

Lab ID: B9770_21382_PCB_004

ACQ: 17-Sep-2024 23:54:31 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#3 Mill On

UTP: 20-Sep-2024 10:52:53 PSW

J-level: 20 pg Split: 2

Checkcode: 448-058-PRH/C

Datafile: 240917S14

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------|--------------|----------|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-77 33'44'-TeCB | 32.07 | EMPC | 1.0006 | 1.0005 | -0.2 | 1.78E+05 | 1.02 | 1.45 | 87.4 | 3.37E+03 | 17.1 |
| PCB-81 344'5-TeCB | ND | | 1.0005 | | | | | 1.46 | ND | 3.37E+03 | 17.5 |
| PCB-105 233'44'-PeCB | 35.04 | B EMPC | 1.0007 | 1.0007 | 0 | 2.40E+05 | 0.74 | 1.18 | 139 | 1.27E+03 | 7.38 |
| PCB-114 2344'5-PeCB | 34.48 | J | 1.0007 | 1.0007 | 0 | 2.37E+04 | 0.53 | 1.14 | 13.8 | 1.27E+03 | 8.29 |
| PCB-118 23'44'5-PeCB | 34.02 | | 1.0007 | 1.0007 | 0 | 6.86E+05 | 0.62 | 1.18 | 361 | 1.27E+03 | 6.99 |
| PCB-123 23'44'5'-PeCB | ND | | 1.0006 | | | | | 1.19 | ND | 1.27E+03 | 7.48 |
| PCB-126 33'44'5-PeCB | ND | | 1.0005 | | | | | 1.35 | ND | 1.17E+03 | 8.21 |
| PCB-156/157 ...-HxCB | 40.14 | B EMPC C | 1.0005 | 1.0002 | -0.7 | 6.02E+04 | 1.03 | 1.23 | 42.2 | 9.97E+02 | 10.7 |
| PCB-167 23'44'55'-HxCB | 39.17 | J B EMPC | 1.0005 | 1.0007 | +0.5 | 2.52E+04 | 1.75 | 1.22 | 14.3 | 9.97E+02 | 6.12 |
| PCB-169 33'44'55'-HxCB | ND | | 1.0005 | | | | | 1.23 | ND | 9.97E+02 | 7.68 |
| PCB-189 233'44'55'-HpCB | ND | | 1.0004 | | | | | 1.31 | ND | 9.14E+02 | 5.6 |
| PCB-209 DeCB | 50.63 | | 1.0005 | 1.0005 | 0 | 4.01E+04 | 1.01 | 1.08 | 35.9 | 5.94E+02 | 8.03 |
| | | | | | | | | | | 20% | 145% |
| ES PCB-1 | 11.44 | | 0.7229 | 0.7226 | -0.2 | 4.53E+06 | 2.91 | 1.09 | 43.1 % | 5% | 145% |
| ES PCB-3 | 13.67 | | 0.8630 | 0.8632 | +0.2 | 4.96E+06 | 2.90 | 1.06 | 48.3 % | 5% | 145% |
| ES PCB-4 | 13.95 | | 0.8788 | 0.8812 | +2.0 | 3.16E+06 | 1.51 | 0.52 | 63 % | 5% | 145% |
| ES PCB-15 | 19.51 | | 1.2319 | 1.2321 | +0.2 | 6.38E+06 | 1.49 | 1.11 | 59.3 % | 5% | 145% |
| ES PCB-19 | 16.93 | | 1.0691 | 1.0691 | 0 | 3.87E+06 | 1.00 | 0.54 | 74.2 % | 5% | 145% |
| ES PCB-37 | 25.76 | | 1.0809 | 1.0809 | 0 | 6.19E+06 | 1.03 | 1.71 | 47.2 % | 5% | 145% |
| ES PCB-54 | 19.79 | | 0.8306 | 0.8303 | -0.4 | 3.80E+06 | 0.80 | 0.78 | 63.6 % | 5% | 145% |
| ES PCB-77 | 32.06 | | 1.3442 | 1.3450 | +1.5 | 5.63E+06 | 0.70 | 1.53 | 48.1 % | 10% | 145% |
| ES PCB-81 | 31.57 | | 1.3240 | 1.3248 | +1.5 | 5.47E+06 | 0.66 | 1.55 | 45.9 % | 10% | 145% |
| ES PCB-104 | 24.67 | | 0.8294 | 0.8290 | -0.6 | 4.00E+06 | 1.64 | 0.74 | 83 % | 10% | 145% |
| ES PCB-105 | 35.01 | | 1.1761 | 1.1765 | +0.8 | 5.83E+06 | 1.52 | 1.31 | 68.7 % | 10% | 145% |
| ES PCB-114 | 34.46 | | 1.1575 | 1.1578 | +0.6 | 5.99E+06 | 1.51 | 1.34 | 68.7 % | 10% | 145% |
| ES PCB-118 | 33.99 | | 1.1420 | 1.1422 | +0.4 | 6.42E+06 | 1.56 | 1.35 | 73.1 % | 10% | 145% |
| ES PCB-123 | 33.72 | | 1.1327 | 1.1329 | +0.4 | 5.97E+06 | 1.45 | 1.29 | 71.3 % | 10% | 145% |
| ES PCB-126 | 37.61 | | 1.2635 | 1.2639 | +0.9 | 4.61E+06 | 1.28 | 1.59 | 44.6 % | 10% | 145% |
| ES PCB-153 | 35.56 | | 0.9707 | 0.9708 | +0.2 | 4.85E+06 | 1.22 | 1.10 | 78 % | 10% | 145% |
| ES PCB-155 | 29.56 | | 0.8072 | 0.8070 | -0.4 | 5.65E+06 | 1.30 | 1.38 | 72.6 % | 10% | 145% |
| ES PCB-156/157 | 40.13 | C | 1.0958 | 1.0956 | -0.5 | 9.28E+06 | 1.11 | 1.62 | 50.7 % | 10% | 145% |
| ES PCB-167 | 39.15 | | 1.0687 | 1.0688 | +0.2 | 5.78E+06 | 1.13 | 1.70 | 60.1 % | 10% | 145% |
| ES PCB-169 | 42.85 | | 1.1697 | 1.1698 | +0.3 | 4.62E+06 | 1.11 | 1.55 | 52.6 % | 10% | 145% |
| ES PCB-170 | 42.35 | | 0.9066 | 0.9065 | -0.3 | 3.86E+06 | 1.06 | 1.06 | 77.1 % | 10% | 145% |
| ES PCB-180 | 41.28 | | 0.8835 | 0.8834 | -0.2 | 5.00E+06 | 1.07 | 1.30 | 81.3 % | 10% | 145% |
| ES PCB-188 | 34.42 | | 0.9398 | 0.9398 | 0 | 3.55E+06 | 1.06 | 0.63 | 100 % | 10% | 145% |
| ES PCB-189 | 44.95 | | 0.9621 | 0.9621 | 0 | 5.26E+06 | 0.91 | 1.71 | 65.1 % | 10% | 145% |
| ES PCB-202 | 38.95 | | 1.0632 | 1.0633 | +0.2 | 4.66E+06 | 0.88 | 0.96 | 86 % | 10% | 145% |
| ES PCB-205 | 47.15 | | 1.0091 | 1.0091 | 0 | 4.72E+06 | 0.85 | 1.23 | 81 % | 10% | 145% |
| ES PCB-206 | 48.84 | | 1.0453 | 1.0453 | 0 | 3.74E+06 | 0.76 | 0.84 | 94 % | 10% | 145% |

Lab ID: B9770_21382_PCB_004

ACQ: 17-Sep-2024 23:54:31 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#3 Mill On

UTP: 20-Sep-2024 10:52:53 PSW

J-level: 20 pg Split: 2

Checkcode: 448-058-PRH/C

Datafile: 240917S14

RPT: 23-Sep-2024 11:06 pw

Stds (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------|------------------|----|-------------------|-------------------|-----------------|---------------------|-----------------|-----------------|-------------------|----------------------|--------------------|
| | | | | | | | | | | 20% | 145% |
| ES PCB-208 | 44.54 | | 0.9533 | 0.9533 | 0 | 4.94E+06 | 0.80 | 1.25 | 83.5 % | 10% | 145% |
| ES PCB-209 | 50.61 | | 1.0832 | 1.0832 | 0 | 4.15E+06 | 1.13 | 0.94 | 93.4 % | 10% | 145% |
| | | | | | | | | | | 70% | 130% |
| SS PCB-28 | 22.22 | | 0.9327 | 0.9325 | -0.3 | 5.75E+06 | 0.98 | 1.01 | 91.6 % | 5% | 145% |
| SS PCB-111 | 32.04 | | 1.0762 | 1.0764 | +0.4 | 5.30E+06 | 1.54 | 0.97 | 91.6 % | 10% | 145% |
| SS PCB-178 | 36.99 | | 1.0098 | 1.0099 | +0.2 | 2.86E+06 | 1.16 | 0.74 | 109 % | 10% | 145% |
| ES PCB-20 | 22.22 | | 0.9327 | 0.9325 | -0.3 | 5.75E+06 | 0.98 | 1.73 | 43.3 % | 5% | 145% |
| ES PCB-111 | 32.04 | | 1.0762 | 1.0764 | +0.4 | 5.30E+06 | 1.54 | 1.25 | 65.3 % | 10% | 145% |
| ES PCB-178 | 36.99 | | 1.0098 | 1.0099 | +0.2 | 2.86E+06 | 1.16 | 0.46 | 110 % | 10% | 145% |
| | | | | | | | | | | | |
| JS PCB-9 | 15.83 | | | | | 9.67E+06 | 1.50 | | | | |
| JS PCB-52 | 23.83 | | | | | 7.68E+06 | 0.82 | | | | |
| JS PCB-101 | 29.76 | | | | | 6.49E+06 | 1.51 | | | | |
| JS PCB-138 | 36.63 | | | | | 5.65E+06 | 1.21 | | | | |
| JS PCB-194 | 46.72 | | | | | 4.73E+06 | 0.93 | | | | |
| Totals | | | | | | NON-EMPC | EMPC | DL | | | |
| Mono-CB | | | | | | 6,630 | 6,630 | 12.2 | | | |
| Di-CB | | | | | | 4,010 | 4,330 | 13 | | | |
| Tri-CB | | | | | | 9,320 | 9,370 | 15.3 | | | |
| Tetra-CB | | | | | | 9,960 | 10,200 | 13.8 | | | |
| Penta-CB | | | | | | 3,990 | 4,170 | 7.2 | | | |
| Hexa-CB | | | | | | 2,850 | 3,050 | 6.77 | | | |
| Hepta-CB | | | | | | 1,110 | 1,260 | 7.11 | | | |
| Octa-CB | | | | | | 91.9 | 224 | 5.24 | | | |
| Nona-CB | | | | | | 0 | 34.8 | 28.7 | | | |

Lab ID: B9770_21382_PCB_004

ACQ: 17-Sep-2024 23:54:31 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#3 Mill On

UTP: 20-Sep-2024 10:52:53 PSW

J-level: 20 pg Split: 2

Checkcode: 448-058-PRH/C

Datafile: 240917S14

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-----------|--------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-1 2-MoCB | 11.45 | | 1.0012 | 1.0011 | -0.1 | 2.96E+06 | 2.90 | 1.47 | 1,770 | 2.84E+03 | 12 |
| PCB-2 3-MoCB | 13.50 | | 0.9878 | 0.9879 | +0.1 | 4.88E+06 | 3.04 | 1.32 | 2,990 | 2.84E+03 | 13.7 |
| PCB-3 4-MoCB | 13.68 | | 1.0010 | 1.0010 | 0 | 3.36E+06 | 2.98 | 1.45 | 1,870 | 2.84E+03 | 12.5 |
| PCB-4 22'-DiCB | 13.97 | B | 1.0012 | 1.0010 | -0.2 | 2.84E+05 | 1.49 | 1.30 | 278 | 1.60E+03 | 13.2 |
| PCB-10 26-DiCB | 14.12 | J | 1.0132 | 1.0120 | -1.0 | 1.99E+04 | SI | 1.56 | 16.1 | 1.60E+03 | 11 |
| PCB-9 25-DiCB | 15.85 | | 1.0010 | 1.0011 | +0.1 | 1.07E+05 | SI | 1.18 | 56.9 | 2.98E+03 | 14.1 |
| PCB-7 24-DiCB | 16.01 | B | 1.0110 | 1.0109 | -0.1 | 1.17E+05 | SI | 1.04 | 70.7 | 2.98E+03 | 16.1 |
| PCB-6 23'-DiCB | 16.24 | EMPC | 1.0257 | 1.0259 | +0.2 | 6.13E+05 | 1.18 | 1.20 | 319 | 2.98E+03 | 13.9 |
| PCB-5 23-DiCB | 16.54 | | 1.0444 | 1.0444 | 0 | 1.23E+05 | SI | 0.99 | 78 | 2.98E+03 | 16.9 |
| PCB-8 24'-DiCB | 16.65 | B | 1.0517 | 1.0518 | +0.1 | 8.09E+05 | 1.45 | 1.27 | 399 | 2.98E+03 | 13.1 |
| PCB-14 35-DiCB | 18.16 | | 0.9312 | 0.9311 | -0.1 | 1.55E+05 | SI | 1.04 | 93.7 | 2.98E+03 | 16.1 |
| PCB-11 33'-DiCB | 18.95 | B | 0.9713 | 0.9713 | 0 | 3.09E+06 | 1.53 | 1.12 | 1,720 | 2.98E+03 | 14.8 |
| PCB-13/12 34'/34-DiCB | 19.24 | C | 0.9860 | 0.9861 | +0.1 | 1.07E+06 | 1.55 | 1.01 | 662 | 2.98E+03 | 16.5 |
| PCB-15 44'-DiCB | 19.52 | | 1.0008 | 1.0009 | +0.1 | 1.32E+06 | 1.58 | 1.31 | 632 | 2.98E+03 | 12.7 |
| PCB-19 22'6-TrCB | 16.95 | | 1.0010 | 1.0013 | +0.3 | 2.06E+05 | 1.15 | 1.16 | 183 | 2.26E+03 | 15.7 |
| PCB-30/18 246/22'5-TrCB | 18.67 | C | 1.1015 | 1.1031 | +1.8 | 1.27E+06 | 1.09 | 1.43 | 917 | 2.26E+03 | 12.8 |
| PCB-17 22'4-TrCB | 19.05 | | 1.1254 | 1.1256 | +0.2 | 9.92E+05 | 1.10 | 0.99 | 1,030 | 2.26E+03 | 18.4 |
| PCB-27 23'6-TrCB | 19.25 | | 1.1371 | 1.1372 | +0.1 | 3.58E+05 | 0.96 | 1.42 | 261 | 2.26E+03 | 12.9 |
| PCB-24 236-TrCB | 19.37 | J EMPC | 1.1444 | 1.1440 | -0.5 | 2.22E+04 | 1.44 | 1.43 | 16.1 | 2.26E+03 | 12.8 |
| PCB-16 22'3-TrCB | 19.48 | | 1.1508 | 1.1509 | +0.1 | 3.15E+05 | 1.09 | 0.94 | 348 | 2.26E+03 | 19.6 |
| PCB-32 24'6-TrCB | 19.95 | | 1.1782 | 1.1784 | +0.2 | 1.11E+06 | 1.10 | 1.55 | 736 | 2.26E+03 | 11.8 |
| PCB-34 23'5'-TrCB | 21.07 | | 0.8181 | 0.8179 | -0.3 | 6.65E+04 | 1.10 | 1.17 | 36.8 | 3.38E+03 | 18.3 |
| PCB-23 235-TrCB | ND | | 0.8235 | | | | | 1.16 | ND | 3.38E+03 | 18.5 |
| PCB-26/29 23'5/245-TrCB | 21.48 | C | 0.8347 | 0.8339 | -1.0 | 2.08E+06 | 1.06 | 1.19 | 1,130 | 3.38E+03 | 18 |
| PCB-25 23'4-TrCB | 21.70 | | 0.8426 | 0.8422 | -0.5 | 1.08E+06 | 0.98 | 1.43 | 491 | 3.38E+03 | 15 |
| PCB-31 24'5-TrCB | 21.98 | | 0.8534 | 0.8532 | -0.3 | 3.72E+06 | 1.09 | 1.37 | 1,760 | 3.38E+03 | 15.6 |
| PCB-28/20 244'/233'-TrCB | 22.25 | C | 0.8642 | 0.8636 | -0.8 | 2.30E+06 | 1.09 | 1.28 | 1,160 | 3.38E+03 | 16.7 |
| PCB-21/33 234/23'4'-TrCB | 22.45 | B C | 0.8710 | 0.8716 | +0.8 | 5.04E+05 | 1.14 | 1.23 | 264 | 3.38E+03 | 17.4 |
| PCB-22 234'-TrCB | 22.82 | | 0.8859 | 0.8857 | -0.3 | 9.46E+05 | 1.14 | 1.33 | 460 | 3.38E+03 | 16.1 |
| PCB-36 33'5-TrCB | 24.17 | EMPC | 0.9383 | 0.9384 | +0.1 | 6.31E+04 | 1.27 | 1.38 | 29.6 | 3.38E+03 | 15.5 |
| PCB-39 34'5-TrCB | ND | | 0.9508 | | | | | 1.26 | ND | 3.38E+03 | 17 |
| PCB-38 345-TrCB | 25.02 | | 0.9709 | 0.9710 | +0.2 | 1.05E+05 | 1.06 | 1.27 | 53.5 | 3.38E+03 | 16.9 |
| PCB-35 33'4-TrCB | 25.42 | B | 0.9867 | 0.9868 | +0.2 | 2.25E+05 | 1.14 | 1.19 | 122 | 3.38E+03 | 17.9 |
| PCB-37 344'-TrCB | 25.78 | | 1.0007 | 1.0007 | 0 | 8.12E+05 | 1.08 | 1.43 | 367 | 3.38E+03 | 14.9 |
| PCB-54 22'66'-TeCB | ND | | 1.0010 | | | | | 1.52 | ND | 1.12E+03 | 6.7 |
| PCB-50/53 22'46/22'56'-TeCB | 21.74 | C | 0.9128 | 0.9122 | -0.8 | 4.97E+05 | 0.75 | 0.86 | 423 | 1.68E+03 | 14.8 |
| PCB-45 22'36'-TeCB | 22.35 | | 0.9377 | 0.9377 | 0 | 1.64E+05 | 0.67 | 0.72 | 166 | 1.68E+03 | 17.6 |
| PCB-51 22'46'-TeCB | 22.41 | EMPC | 0.9403 | 0.9401 | -0.3 | 1.97E+05 | 0.91 | 0.87 | 165 | 1.68E+03 | 14.6 |
| PCB-46 22'36'-TeCB | 22.63 | | 0.9496 | 0.9495 | -0.1 | 1.22E+05 | 0.87 | 0.68 | 130 | 1.68E+03 | 18.6 |
| PCB-52 22'55'-TeCB | 23.86 | | 1.0010 | 1.0010 | 0 | 2.15E+06 | 0.79 | 0.97 | 1,620 | 1.68E+03 | 13.1 |
| PCB-73 23'5'6'-TeCB | ND | | 1.0061 | | | | | 1.19 | ND | 1.68E+03 | 10.7 |

Lab ID: B9770_21382_PCB_004

ACQ: 17-Sep-2024 23:54:31 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#3 Mill On

UTP: 20-Sep-2024 10:52:53 PSW

J-level: 20 pg Split: 2

Checkcode: 448-058-PRH/C

Datafile: 240917S14

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|---------------------------------|-----------|------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-43 22'35'-TeCB | 24.07 | | 1.0099 | 1.0098 | -0.1 | 6.19E+04 | 0.90 | 0.81 | 55.7 | 1.68E+03 | 15.7 |
| PCB-69/49 23'46/22'45'-TeCB | 24.29 | C | 1.0177 | 1.0190 | +1.9 | 1.78E+06 | 0.78 | 0.97 | 1,340 | 1.68E+03 | 13.1 |
| PCB-48 22'45'-TeCB | 24.54 | | 1.0295 | 1.0296 | +0.1 | 1.21E+05 | 0.78 | 0.83 | 107 | 1.68E+03 | 15.4 |
| PCB-44/47/65 ...-TeCB | 24.75 | C | 1.0386 | 1.0385 | -0.1 | 2.32E+06 | 0.79 | 0.94 | 1,800 | 1.68E+03 | 13.5 |
| PCB-59/62/75 ...-TeCB | 25.03 | C | 1.0499 | 1.0501 | +0.3 | 1.79E+05 | 0.73 | 1.09 | 120 | 1.68E+03 | 11.7 |
| PCB-42 22'34'-TeCB | 25.20 | | 1.0575 | 1.0575 | 0 | 5.90E+05 | 0.79 | 0.73 | 592 | 1.68E+03 | 17.4 |
| PCB-41 22'34'-TeCB | 25.53 | | 1.0713 | 1.0712 | -0.2 | 5.33E+04 | 0.85 | 0.63 | 62 | 1.68E+03 | 20.2 |
| PCB-71/40 23'4'6/22'33'-TeCB | 25.63 | C | 1.0755 | 1.0756 | +0.2 | 1.08E+06 | 0.74 | 0.92 | 865 | 1.68E+03 | 13.9 |
| PCB-64 234'6'-TeCB | 25.82 | | 1.0836 | 1.0835 | -0.2 | 7.36E+05 | 0.81 | 1.11 | 486 | 1.68E+03 | 11.5 |
| PCB-72 23'55'-TeCB | 26.51 | | 0.8404 | 0.8398 | -1.0 | 4.07E+04 | 0.74 | 1.20 | 24.9 | 3.37E+03 | 21.4 |
| PCB-68 23'45'-TeCB | 26.78 | | 0.8483 | 0.8481 | -0.3 | 4.43E+04 | 0.73 | 1.13 | 28.7 | 3.37E+03 | 22.6 |
| PCB-57 233'5'-TeCB | ND | | 0.8601 | | | | | 1.14 | ND | 3.37E+03 | 22.4 |
| PCB-58 233'5'-TeCB | ND | | 0.8668 | | | | | 1.31 | ND | 3.37E+03 | 19.5 |
| PCB-67 23'45'-TeCB | 27.50 | B | 0.8713 | 0.8711 | -0.3 | 5.06E+04 | 0.86 | 1.32 | 28.1 | 3.37E+03 | 19.4 |
| PCB-63 234'5'-TeCB | 27.73 | | 0.8785 | 0.8782 | -0.5 | 1.12E+05 | 0.73 | 1.08 | 75.5 | 3.37E+03 | 23.6 |
| PCB-61/70/74/76 ...-TeCB | 28.04 | C | 0.8878 | 0.8882 | +0.7 | 1.73E+06 | 0.86 | 1.18 | 1,070 | 3.37E+03 | 21.7 |
| PCB-66 23'44'-TeCB | 28.31 | | 0.8967 | 0.8965 | -0.3 | 1.07E+06 | 0.80 | 1.23 | 637 | 3.37E+03 | 20.7 |
| PCB-55 233'4'-TeCB | ND | | 0.9016 | | | | | 1.22 | ND | 3.37E+03 | 21 |
| PCB-56 233'4'-TeCB | 28.89 | | 0.9155 | 0.9152 | -0.5 | 3.47E+05 | 0.77 | 1.20 | 212 | 3.37E+03 | 21.3 |
| PCB-60 2344'-TeCB | 29.08 | | 0.9214 | 0.9210 | -0.7 | 1.56E+05 | 0.88 | 1.04 | 110 | 3.37E+03 | 24.7 |
| PCB-80 33'55'-TeCB | ND | | 0.9309 | | | | | 1.32 | ND | 3.37E+03 | 19.4 |
| PCB-79 33'45'-TeCB | ND | | 0.9732 | | | | | 1.45 | ND | 3.37E+03 | 17.6 |
| PCB-78 33'45'-TeCB | ND | | 0.9884 | | | | | 1.18 | ND | 3.37E+03 | 21.6 |
| PCB-104 22'466'-PeCB | ND | | 1.0009 | | | | | 1.46 | ND | 7.27E+02 | 4.85 |
| PCB-96 22'366'-PeCB | ND | | 1.0147 | | | | | 1.19 | ND | 7.27E+02 | 5.97 |
| PCB-103 22'45'6'-PeCB | ND | | 0.8968 | | | | | 0.72 | ND | 1.27E+03 | 12.4 |
| PCB-94 22'356'-PeCB | ND | | 0.9036 | | | | | 0.59 | ND | 1.27E+03 | 15 |
| PCB-95 22'35'6'-PeCB | 27.28 | B | 0.9167 | 0.9165 | -0.3 | 6.78E+05 | 0.67 | 0.68 | 668 | 1.27E+03 | 13.1 |
| PCB-100/93 22'44'6/22'356'-PeCB | 27.46 | J C | 0.9229 | 0.9225 | -0.7 | 2.44E+04 | 0.67 | 0.65 | 25.1 | 1.27E+03 | 13.7 |
| PCB-102 22'456'-PeCB | 27.59 | EMPC | 0.9269 | 0.9271 | +0.3 | 4.98E+04 | 0.82 | 0.85 | 39.3 | 1.27E+03 | 10.5 |
| PCB-98 22'34'6'-PeCB | ND | | 0.9292 | | | | | 0.72 | ND | 1.27E+03 | 12.4 |
| PCB-88 22'346'-PeCB | ND | | 0.9390 | | | | | 0.61 | ND | 1.27E+03 | 14.6 |
| PCB-91 22'34'6'-PeCB | 28.02 | | 0.9416 | 0.9416 | 0 | 1.88E+05 | 0.64 | 0.72 | 175 | 1.27E+03 | 12.4 |
| PCB-84 22'33'6'-PeCB | 28.23 | | 0.9486 | 0.9485 | -0.2 | 1.83E+05 | 0.61 | 0.57 | 216 | 1.27E+03 | 15.7 |
| PCB-89 22'346'-PeCB | ND | | 0.9623 | | | | | 0.69 | ND | 1.27E+03 | 12.9 |
| PCB-121 23'45'6'-PeCB | ND | | 0.9725 | | | | | 1.05 | ND | 1.27E+03 | 8.49 |
| PCB-92 22'355'-PeCB | 29.28 | | 0.9839 | 0.9839 | 0 | 1.80E+05 | 0.64 | 0.68 | 176 | 1.27E+03 | 13 |
| PCB-113/90/101 ...-PeCB | 29.78 | B C | 0.9999 | 1.0008 | +1.6 | 8.08E+05 | 0.66 | 0.81 | 666 | 1.27E+03 | 10.9 |
| PCB-83 22'33'5'-PeCB | 30.20 | | 1.0148 | 1.0148 | 0 | 6.30E+04 | 0.62 | 0.59 | 71.5 | 1.27E+03 | 15.1 |
| PCB-99 22'44'5'-PeCB | 30.28 | B | 1.0174 | 1.0174 | 0 | 3.66E+05 | 0.65 | 0.94 | 260 | 1.27E+03 | 9.42 |
| PCB-112 233'56'-PeCB | ND | | 1.0210 | | | | | 1.13 | ND | 1.27E+03 | 7.86 |

Lab ID: B9770_21382_PCB_004

ACQ: 17-Sep-2024 23:54:31 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#3 Mill On

UTP: 20-Sep-2024 10:52:53 PSW

J-level: 20 pg Split: 2

Checkcode: 448-058-PRH/C

Datafile: 240917S14

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------------|--------------|--------|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-109/119/86/97/125...-PeCB | 30.77 | B C | 1.0327 | 1.0338 | +2.0 | 5.24E+05 | 0.55 | 0.89 | 394 | 1.27E+03 | 9.98 |
| PCB-117 234'56-PeCB | 31.26 | | 1.0504 | 1.0503 | -0.2 | 5.45E+04 | 0.59 | 0.95 | 38.4 | 1.27E+03 | 9.34 |
| PCB-116/85 23456/22'344'-PeCB | 31.35 | C | 1.0533 | 1.0535 | +0.4 | 1.52E+05 | 0.67 | 0.84 | 121 | 1.27E+03 | 10.6 |
| PCB-110 233'4'6-PeCB | 31.49 | | 1.0579 | 1.0580 | +0.2 | 1.08E+06 | 0.64 | 1.12 | 647 | 1.27E+03 | 7.91 |
| PCB-115 2344'6-PeCB | ND | | 1.0600 | | | | | 1.11 | ND | 1.27E+03 | 8 |
| PCB-82 22'33'4-PeCB | 31.77 | | 1.0675 | 1.0675 | 0 | 8.10E+04 | 0.54 | 0.72 | 75.5 | 1.27E+03 | 12.4 |
| PCB-111 233'55'-PeCB | ND | | 1.0770 | | | | | 1.00 | ND | 1.27E+03 | 8.86 |
| PCB-120 23'455'-PeCB | ND | | 1.0902 | | | | | 1.22 | ND | 1.27E+03 | 7.3 |
| PCB-108/124 ...-PeCB | 33.44 | J B C | 0.9915 | 0.9917 | +0.4 | 3.21E+04 | 0.60 | 1.03 | 21 | 1.27E+03 | 8.67 |
| PCB-107 233'4'5-PeCB | 33.66 | B | 0.9975 | 0.9984 | +1.8 | 8.74E+04 | 0.66 | 1.08 | 54 | 1.27E+03 | 8.21 |
| PCB-106 233'45-PeCB | ND | | 1.0038 | | | | | 1.07 | ND | 1.27E+03 | 8.3 |
| PCB-122 233'4'5'-PeCB | 34.30 | J EMPC | 1.0096 | 1.0090 | -1.2 | 9.25E+03 | 0.89 | 0.82 | 7.54 | 1.27E+03 | 11.6 |
| PCB-127 33'455'-PeCB | ND | | 1.0352 | | | | | 1.05 | ND | 1.27E+03 | 8.35 |
| PCB-155 22'44'66'-HxCB | ND | | 1.0007 | | | | | 1.36 | ND | 5.22E+02 | 2.58 |
| PCB-152 22'3566'-HxCB | ND | | 1.0075 | | | | | 1.16 | ND | 5.22E+02 | 3.02 |
| PCB-150 22'34'66'-HxCB | ND | | 1.0119 | | | | | 1.00 | ND | 5.22E+02 | 3.49 |
| PCB-136 22'33'66'-HxCB | 30.24 | B | 1.0230 | 1.0231 | +0.2 | 1.93E+05 | 1.36 | 0.97 | 141 | 5.22E+02 | 3.62 |
| PCB-145 22'3466'-HxCB | ND | | 1.0313 | | | | | 1.09 | ND | 5.22E+02 | 3.2 |
| PCB-148 22'34'56'-HxCB | ND | | 1.0735 | | | | | 1.00 | ND | 5.22E+02 | 4.53 |
| PCB-151/135 ...-HxCB | 32.26 | C | 1.0919 | 1.0914 | -1.0 | 4.10E+05 | 1.19 | 0.98 | 346 | 5.22E+02 | 4.61 |
| PCB-154 22'44'56'-HxCB | ND | | 1.0979 | | | | | 1.06 | ND | 5.22E+02 | 4.27 |
| PCB-144 22'345'6-HxCB | 32.74 | B | 1.1074 | 1.1074 | 0 | 6.41E+04 | 1.18 | 0.99 | 53.4 | 5.22E+02 | 4.56 |
| PCB-147/149 ...-HxCB | 33.04 | C | 1.1177 | 1.1178 | +0.2 | 8.27E+05 | 1.42 | 1.08 | 631 | 5.22E+02 | 4.18 |
| PCB-134 22'33'56-HxCB | 33.24 | | 1.1238 | 1.1243 | +1.0 | 4.06E+04 | 1.22 | 0.78 | 42.9 | 5.22E+02 | 5.79 |
| PCB-143 22'3456'-HxCB | ND | | 1.1264 | | | | | 0.97 | ND | 5.22E+02 | 4.65 |
| PCB-139/140 ...-HxCB | ND | C | 1.1348 | | | | | 1.03 | ND | 5.22E+02 | 4.37 |
| PCB-131 22'33'46-HxCB | ND | | 1.1412 | | | | | 0.91 | ND | 5.22E+02 | 4.97 |
| PCB-142 22'3456-HxCB | ND | | 1.1457 | | | | | 0.89 | ND | 5.22E+02 | 5.08 |
| PCB-132 22'33'46'-HxCB | 34.13 | | 1.1544 | 1.1547 | +0.6 | 2.16E+05 | 1.28 | 0.94 | 189 | 5.22E+02 | 4.8 |
| PCB-133 22'33'55'-HxCB | ND | | 1.1672 | | | | | 1.03 | ND | 5.22E+02 | 4.39 |
| PCB-165 233'55'6-HxCB | ND | | 0.9512 | | | | | 1.23 | ND | 5.22E+02 | 3.67 |
| PCB-146 22'34'55'-HxCB | 35.06 | B | 0.9571 | 0.9572 | +0.2 | 1.24E+05 | 1.22 | 1.17 | 87.6 | 5.22E+02 | 3.86 |
| PCB-161 233'45'6-HxCB | ND | | 0.9601 | | | | | 1.42 | ND | 5.22E+02 | 3.17 |
| PCB-153/168 ...-HxCB | 35.58 | C | 0.9718 | 0.9713 | -1.1 | 8.86E+05 | 1.16 | 1.27 | 575 | 5.22E+02 | 3.55 |
| PCB-141 22'3455'-HxCB | 35.76 | B | 0.9762 | 0.9763 | +0.2 | 1.68E+05 | 1.13 | 0.96 | 145 | 5.22E+02 | 4.72 |
| PCB-130 22'33'45'-HxCB | 36.10 | EMPC | 0.9857 | 0.9856 | -0.2 | 2.55E+04 | 0.93 | 0.83 | 25.2 | 5.22E+02 | 5.43 |
| PCB-137 22'344'5-HxCB | 36.29 | J EMPC | 0.9909 | 0.9908 | -0.2 | 2.01E+04 | 2.11 | 1.01 | 16.4 | 5.22E+02 | 4.47 |
| PCB-164 233'4'5'6-HxCB | 36.39 | EMPC | 0.9935 | 0.9934 | -0.2 | 5.45E+04 | 1.49 | 1.33 | 33.9 | 5.22E+02 | 3.41 |
| PCB-163/138/129 ...-HxCB | 36.65 | C | 1.0011 | 1.0007 | -0.9 | 7.35E+05 | 1.20 | 1.03 | 587 | 5.22E+02 | 4.37 |
| PCB-160 233'456-HxCB | ND | | 1.0045 | | | | | 1.20 | ND | 5.22E+02 | 3.76 |
| PCB-158 233'44'6-HxCB | 36.99 | B | 1.0096 | 1.0098 | +0.4 | 8.83E+04 | 1.21 | 1.35 | 53.8 | 5.22E+02 | 3.34 |

Lab ID: B9770_21382_PCB_004

ACQ: 17-Sep-2024 23:54:31 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240917_PCB_SC

Client ID: Test#3 Mill On

UTP: 20-Sep-2024 10:52:53 PSW

J-level: 20 pg Split: 2

Checkcode: 448-058-PRH/C

Datafile: 240917S14

RPT: 23-Sep-2024 11:06 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

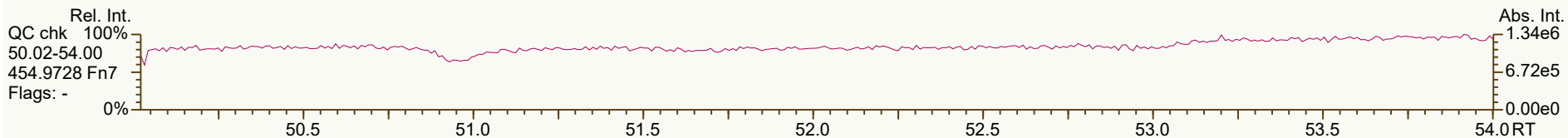
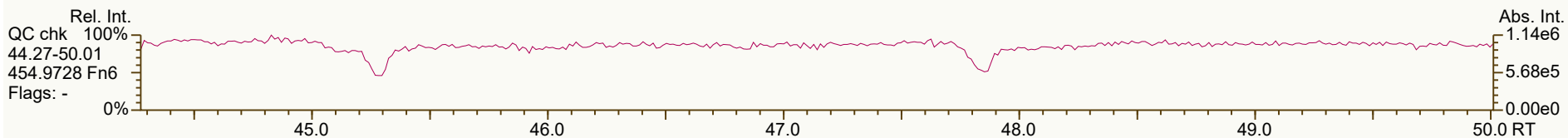
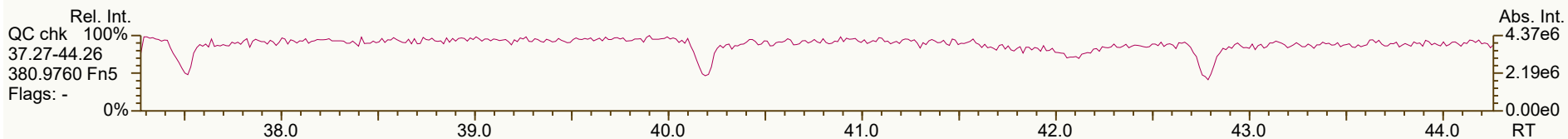
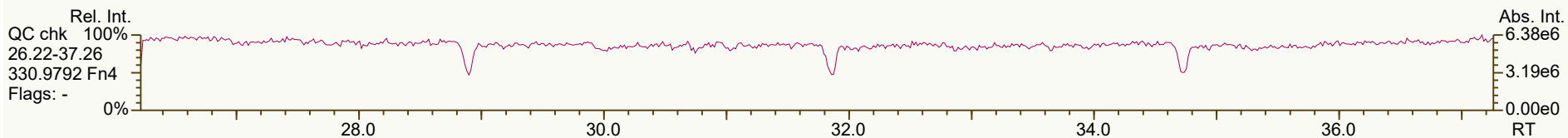
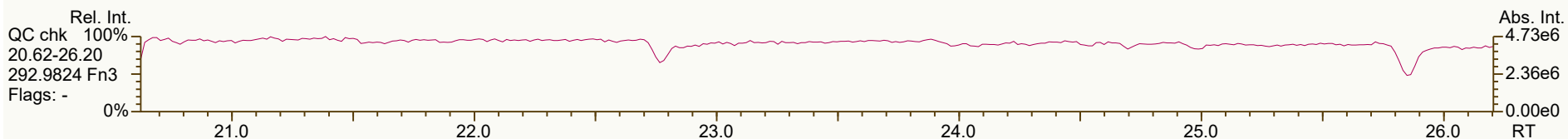
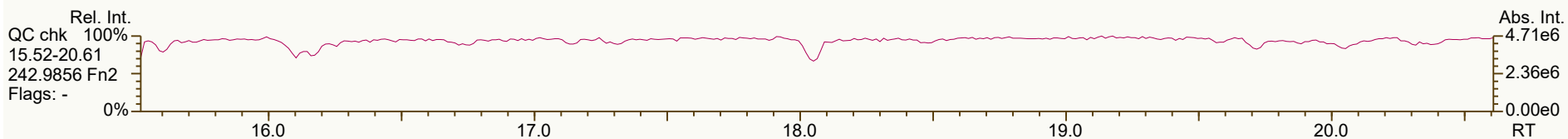
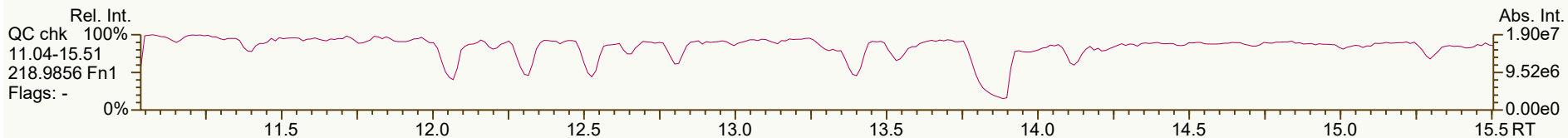
Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-------------------|----------|-------------------|-------------------|-----------------|---------------------|-----------------|-----------------|-------------------|----------------------|--------------------|
| PCB-128/166 ...-HxCB | 37.74 | EMPC C | 0.9635 | 0.9641 | +1.4 | 7.88E+04 | 1.05 | 0.88 | 61.8 | 9.97E+02 | 8.43 |
| PCB-159 233'455'-HxCB | ND | | 0.9840 | | | | | 1.16 | ND | 9.97E+02 | 6.39 |
| PCB-162 233'4'55'-HxCB | ND | | 0.9902 | | | | | 0.99 | ND | 9.97E+02 | 7.49 |
| PCB-188 22'34'566'-HpCB | ND | | 1.0006 | | | | | 1.55 | ND | 5.51E+02 | 4.15 |
| PCB-179 22'33'566'-HpCB | 34.76 | B | 1.0095 | 1.0097 | +0.4 | 1.28E+05 | 1.07 | 1.32 | 110 | 5.51E+02 | 4.87 |
| PCB-184 22'344'66'-HpCB | ND | | 1.0219 | | | | | 1.20 | ND | 5.51E+02 | 5.34 |
| PCB-176 22'33'466'-HpCB | 35.50 | EMPC | 1.0312 | 1.0313 | +0.2 | 2.87E+04 | 0.77 | 1.13 | 28.6 | 5.51E+02 | 5.67 |
| PCB-186 22'34566'-HpCB | ND | | 1.0427 | | | | | 1.35 | ND | 5.51E+02 | 4.74 |
| PCB-178 22'33'55'6'-HpCB | 37.01 | EMPC | 1.0752 | 1.0752 | 0 | 4.22E+04 | 1.31 | 0.90 | 53 | 5.51E+02 | 7.15 |
| PCB-175 22'33'45'6'-HpCB | ND | | 1.0908 | | | | | 0.96 | ND | 1.07E+03 | 9.35 |
| PCB-187 22'34'55'6'-HpCB | 37.78 | | 1.0974 | 1.0975 | +0.2 | 3.52E+05 | 0.94 | 1.18 | 239 | 1.07E+03 | 7.65 |
| PCB-182 22'344'56'-HpCB | ND | | 1.1024 | | | | | 1.13 | ND | 1.07E+03 | 7.94 |
| PCB-183 22'344'5'6'-HpCB | 38.30 | B | 1.1124 | 1.1125 | +0.2 | 1.67E+05 | 0.99 | 1.07 | 125 | 1.07E+03 | 8.42 |
| PCB-185 22'3455'6'-HpCB | 38.39 | J EMPC | 1.1152 | 1.1153 | +0.2 | 1.69E+04 | 1.94 | 0.92 | 14.7 | 1.07E+03 | 9.77 |
| PCB-174 22'33'456'-HpCB | 38.51 | | 1.1187 | 1.1186 | -0.2 | 2.29E+05 | 0.99 | 1.02 | 179 | 1.07E+03 | 8.78 |
| PCB-177 22'33'45'6'-HpCB | 38.88 | | 1.1296 | 1.1294 | -0.5 | 9.85E+04 | 0.90 | 1.03 | 76.8 | 1.07E+03 | 8.76 |
| PCB-181 22'344'56'-HpCB | ND | | 1.1391 | | | | | 1.08 | ND | 1.07E+03 | 8.31 |
| PCB-171/173 ...-HpCB | 39.41 | J EMPC C | 1.1447 | 1.1448 | +0.2 | 4.32E+04 | 0.81 | 0.91 | 37.8 | 1.07E+03 | 9.85 |
| PCB-172 22'33'455'-HpCB | 40.75 | EMPC | 0.9065 | 0.9066 | +0.2 | 2.57E+04 | 1.50 | 0.96 | 21.4 | 1.07E+03 | 9.35 |
| PCB-192 233'455'6'-HpCB | ND | | 0.9118 | | | | | 1.39 | ND | 1.07E+03 | 6.48 |
| PCB-180/193 ...-HpCB | 41.30 | C | 0.9181 | 0.9187 | +1.5 | 3.90E+05 | 1.03 | 1.15 | 271 | 1.07E+03 | 7.81 |
| PCB-191 233'44'5'6'-HpCB | ND | | 0.9253 | | | | | 1.24 | ND | 1.07E+03 | 7.27 |
| PCB-170 22'33'44'5'-HpCB | 42.37 | | 0.9427 | 0.9426 | -0.3 | 1.06E+05 | 1.14 | 1.04 | 106 | 1.07E+03 | 11.4 |
| PCB-190 233'44'56'-HpCB | ND | | 0.9525 | | | | | 1.43 | ND | 1.07E+03 | 8.25 |
| PCB-202 22'33'55'66'-OcCB | 38.97 | J EMPC | 1.0005 | 1.0007 | +0.5 | 1.85E+04 | 0.64 | 1.32 | 12 | 7.55E+02 | 4.54 |
| PCB-201 22'33'45'66'-OcCB | 39.74 | | 1.0204 | 1.0204 | 0 | 2.28E+04 | 0.93 | 0.95 | 20.5 | 7.55E+02 | 6.29 |
| PCB-204 22'344'566'-OcCB | ND | | 1.0349 | | | | | 1.09 | ND | 7.55E+02 | 5.48 |
| PCB-197 22'33'44'66'-OcCB | ND | | 1.0399 | | | | | 1.04 | ND | 7.55E+02 | 5.77 |
| PCB-200 22'33'4566'-OcCB | 40.62 | J EMPC | 1.0428 | 1.0429 | +0.2 | 1.25E+04 | 0.38 | 0.98 | 10.9 | 7.55E+02 | 6.13 |
| PCB-198/199 ...-OcCB | 42.94 | C | 1.1020 | 1.1025 | +1.3 | 7.27E+04 | 1.00 | 0.88 | 71.3 | 7.55E+02 | 6.85 |
| PCB-196 22'33'44'56'-OcCB | 43.47 | EMPC | 1.1166 | 1.1162 | -1.0 | 2.47E+04 | 0.72 | 0.78 | 27 | 7.55E+02 | 7.64 |
| PCB-203 22'344'55'6'-OcCB | 43.64 | EMPC | 1.1208 | 1.1206 | -0.5 | 2.81E+04 | 0.60 | 0.97 | 25 | 7.55E+02 | 6.2 |
| PCB-195 22'33'44'56'-OcCB | 44.78 | EMPC | 0.9499 | 0.9498 | -0.3 | 2.02E+04 | 1.18 | 0.74 | 23.2 | 6.22E+02 | 8.98 |
| PCB-194 22'33'44'55'-OcCB | 46.75 | EMPC | 0.9914 | 0.9915 | +0.3 | 3.28E+04 | 1.14 | 0.81 | 34.3 | 6.22E+02 | 8.2 |
| PCB-205 233'44'55'6'-OcCB | ND | | 1.0004 | | | | | 1.12 | ND | 6.22E+02 | 5.94 |
| PCB-208 22'33'455'66'-NoCB | ND | | 1.0005 | | | | | 1.11 | ND | 2.66E+03 | 21.5 |
| PCB-207 22'33'44'566'-NoCB | ND | | 1.0180 | | | | | 0.90 | ND | 2.66E+03 | 26.5 |
| PCB-206 22'33'44'55'6'-NoCB | 48.87 | EMPC | 1.0005 | 1.0007 | +0.6 | 3.37E+04 | 0.55 | 1.04 | 34.8 | 2.66E+03 | 35.9 |
| AS PCB-32 FS | 19.927 | | 1.2584 | 1.2586 | +0.2 | 6.06E+06 | 1.03 | 0.77 | 81.5 % | 50% | 150% |
| AS PCB-97 FS | 30.705 | | 1.0317 | 1.0317 | 0 | 4.03E+06 | 1.50 | 0.86 | 71.9 % | 50% | 150% |
| AS PCB-159 NR | 38.503 | | 1.0511 | 1.0512 | +0.2 | 6.18E+06 | 1.02 | 1.57 | 69.5 % | 50% | 150% |
| | | | | | | | | | | 70% | 130% |

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_004.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q scc: 448-058

Peak annotation: Areas, Centroids
PKD: n/a Printed: 20-Sep-2024 11:03 Page 1 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



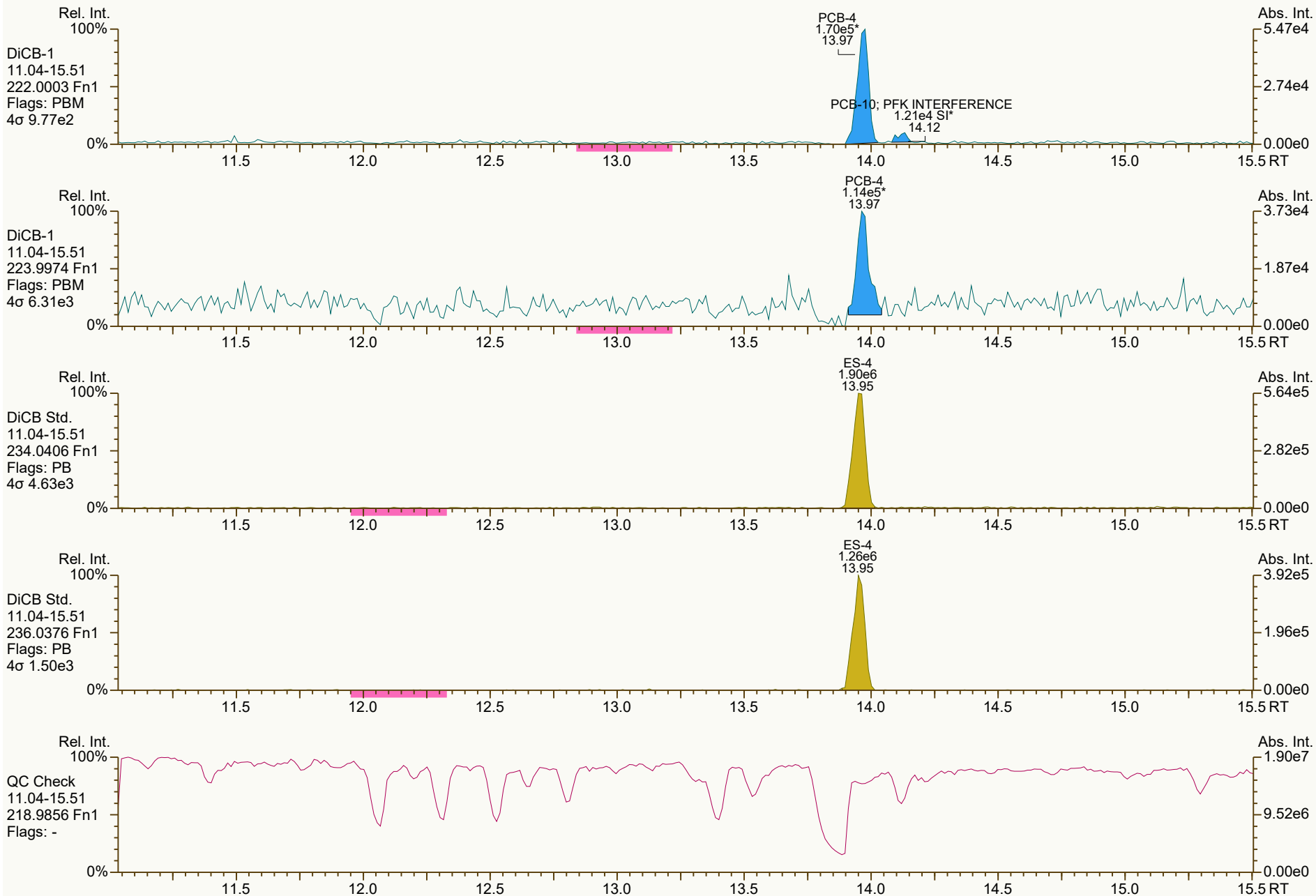
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9712, 8460 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 2 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_004.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 5057, 8115 scc: 448-058

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:07 (PSW) Printed: 20-Sep-2024 11:03 Page 3 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



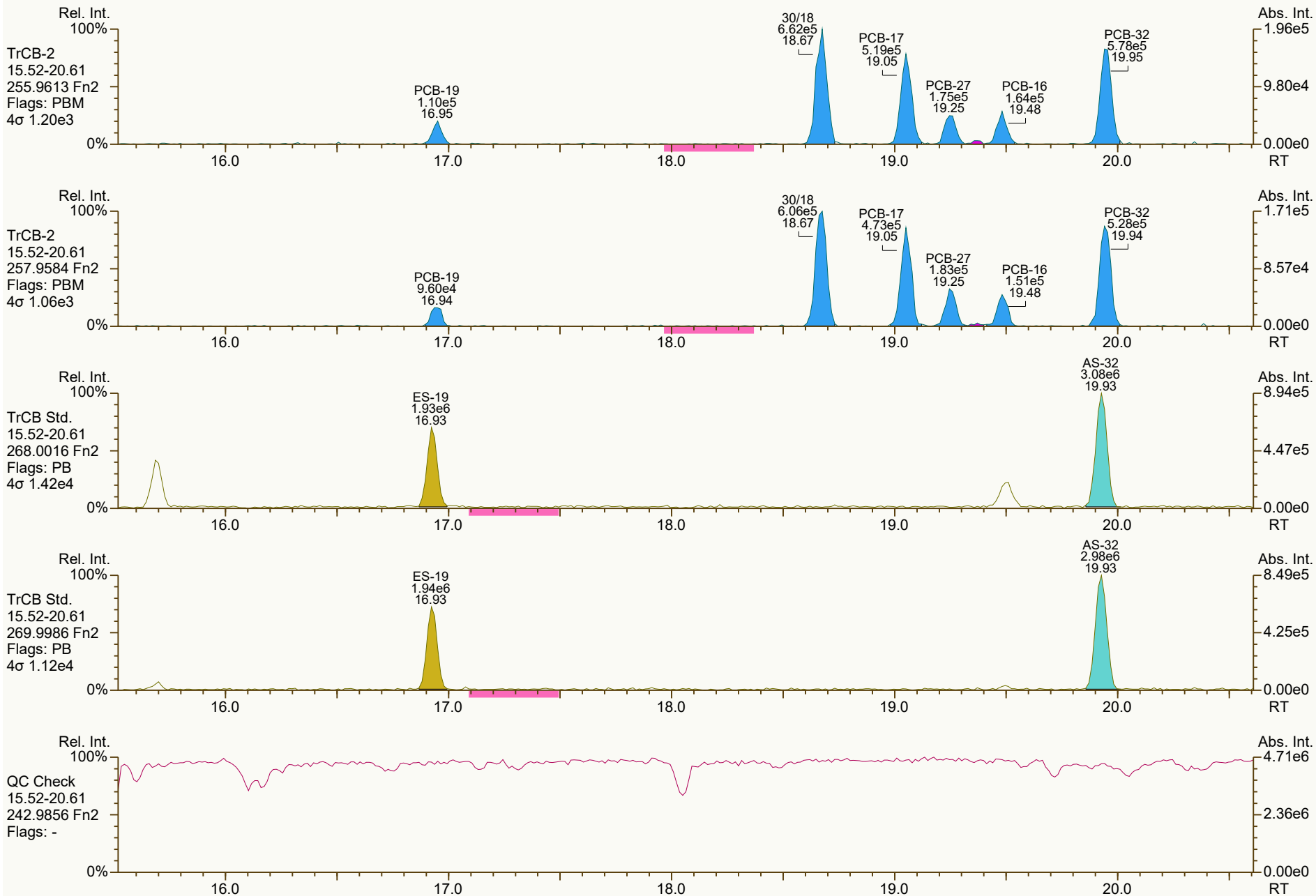
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6379, 8225 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 4 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



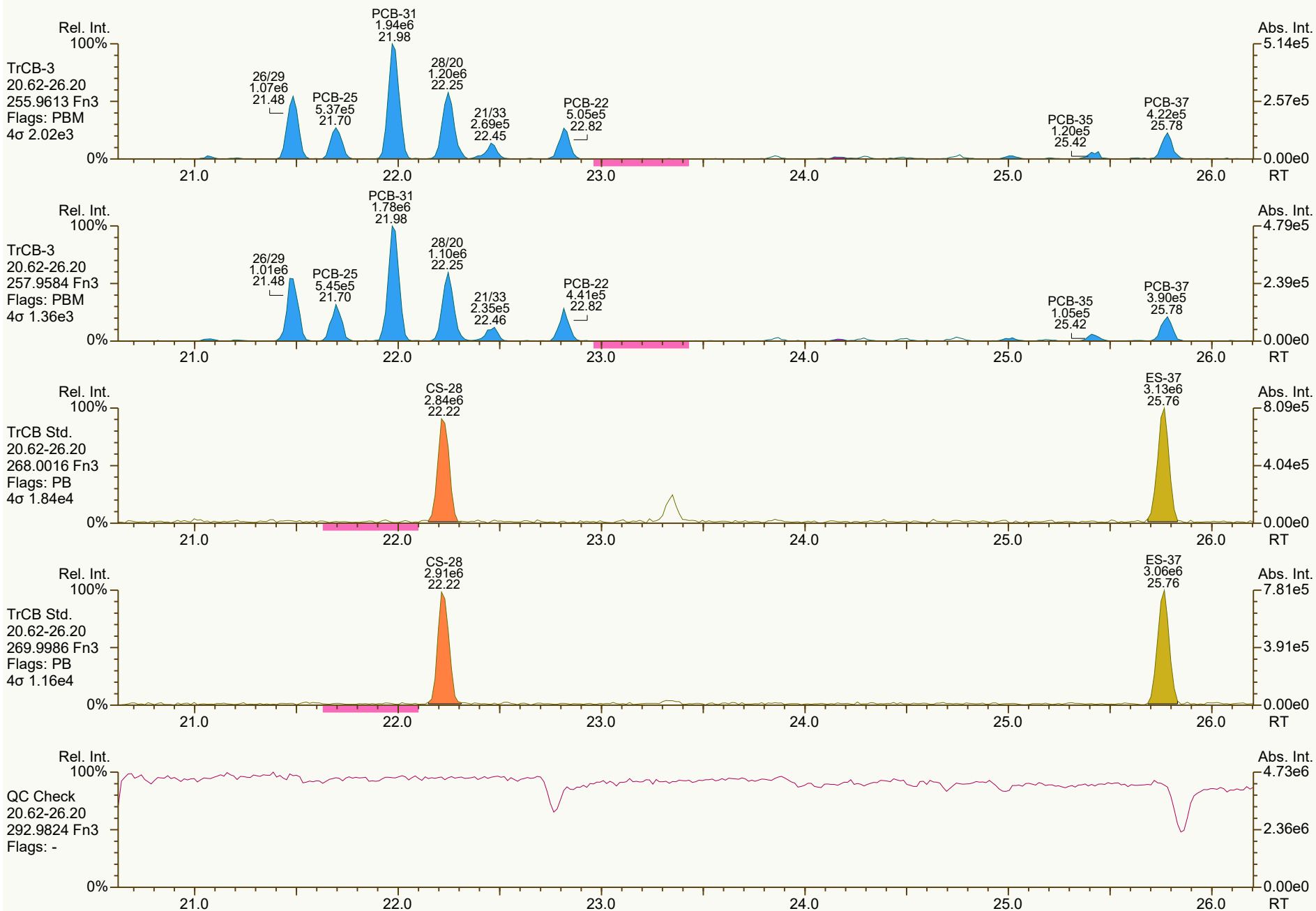
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 5 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_004.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2241, 8648 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 6 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7851, 8303 scc: 448-058

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:07 (PSW) Printed: 20-Sep-2024 11:03 Page 7 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



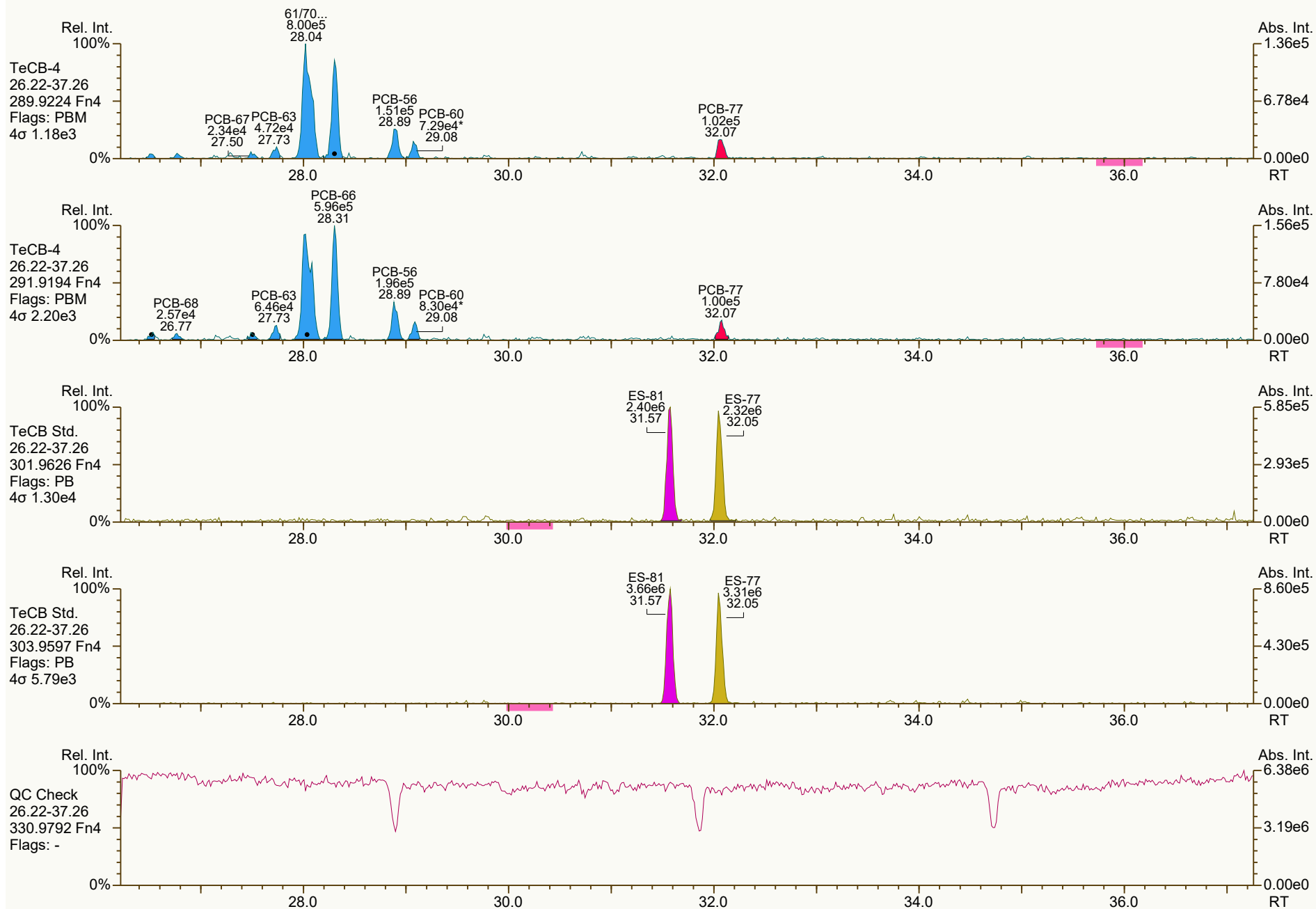
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8801, 0914 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 8 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



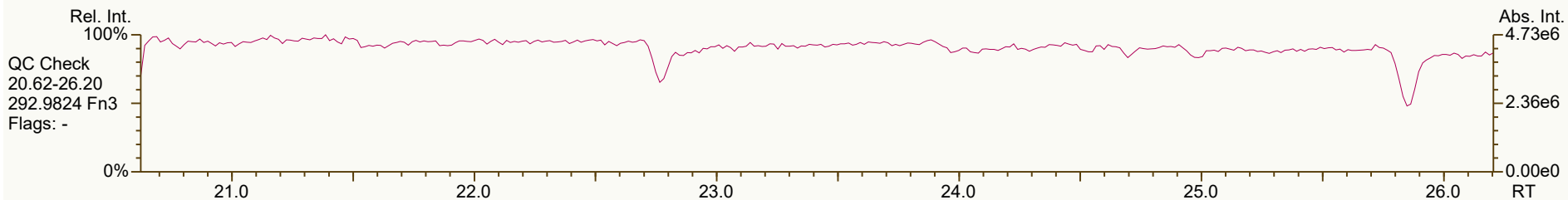
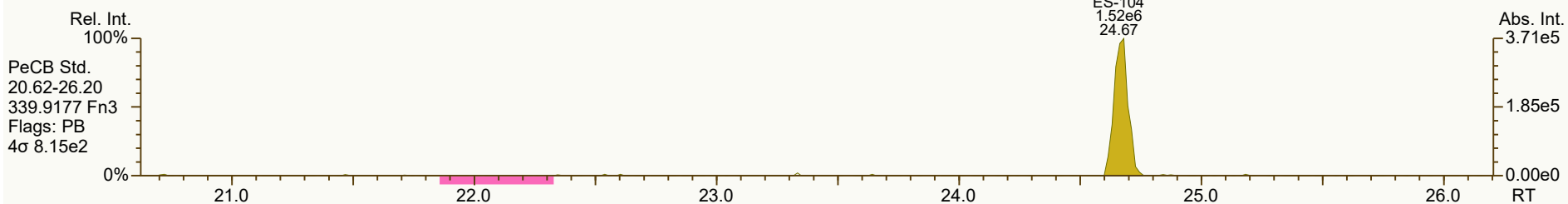
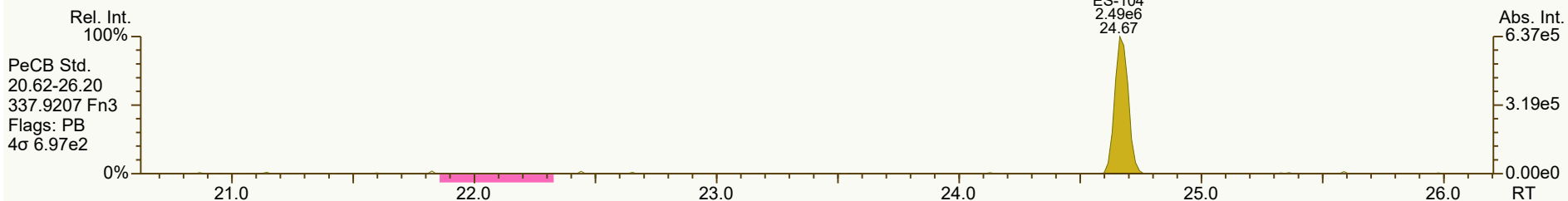
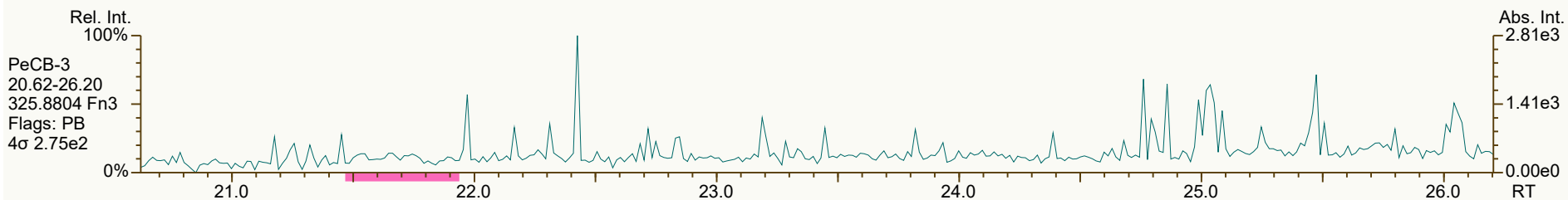
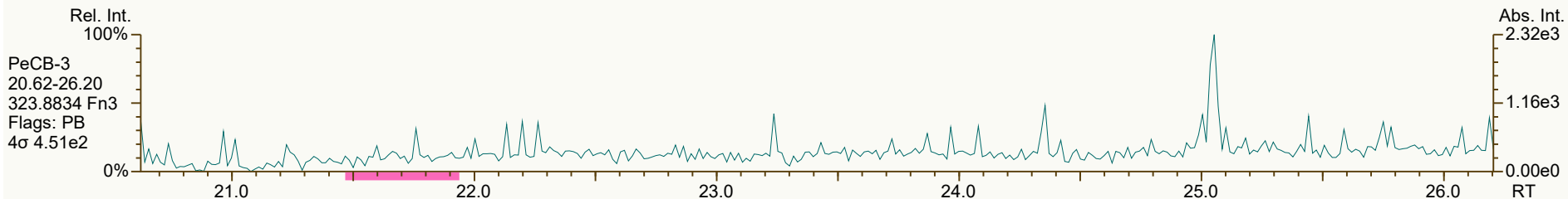
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9605, 3810 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 9 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



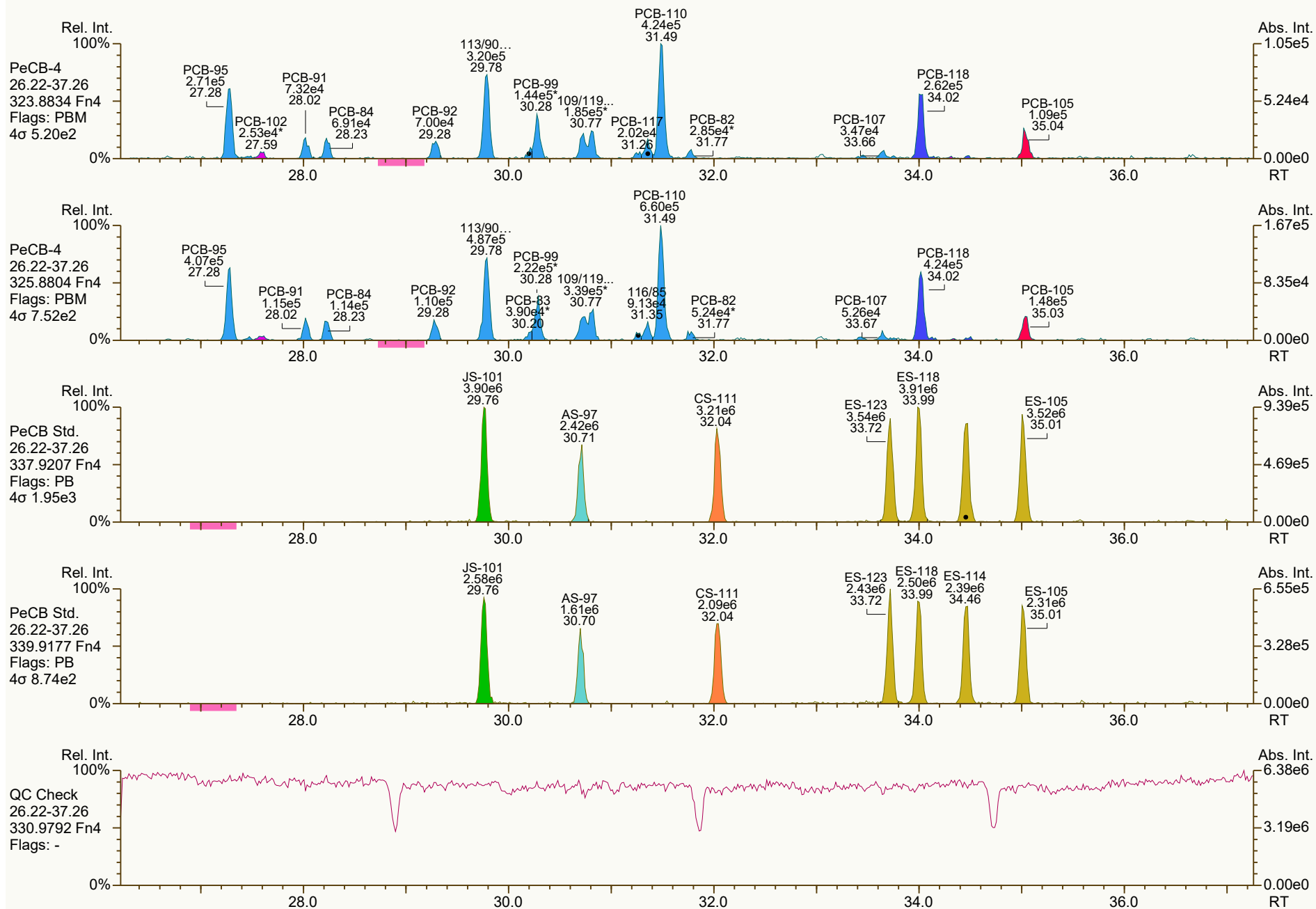
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7858, 0863 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 10 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



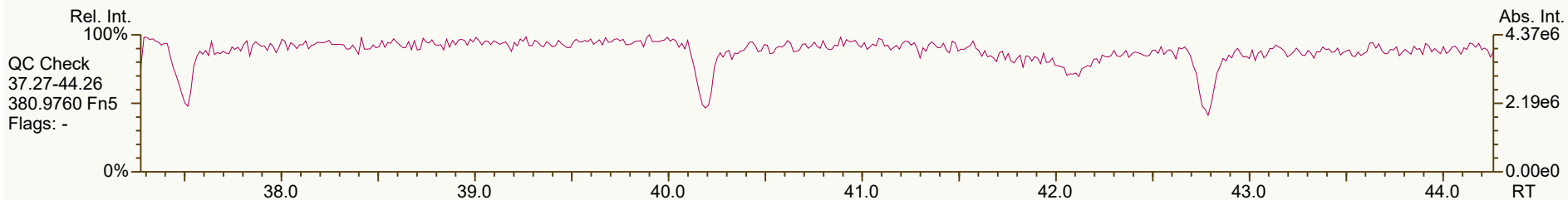
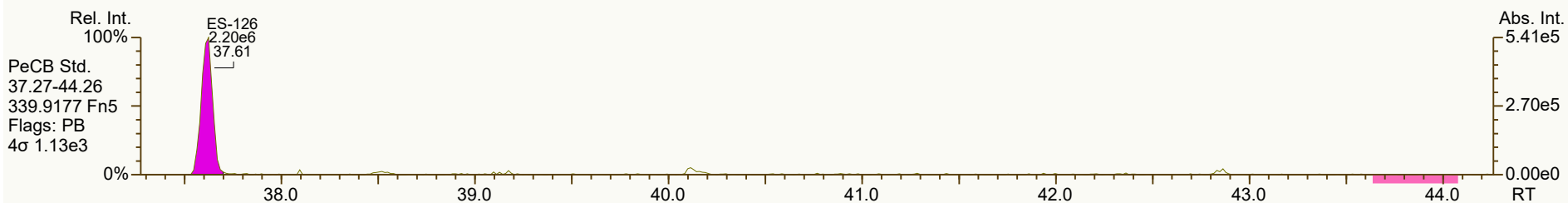
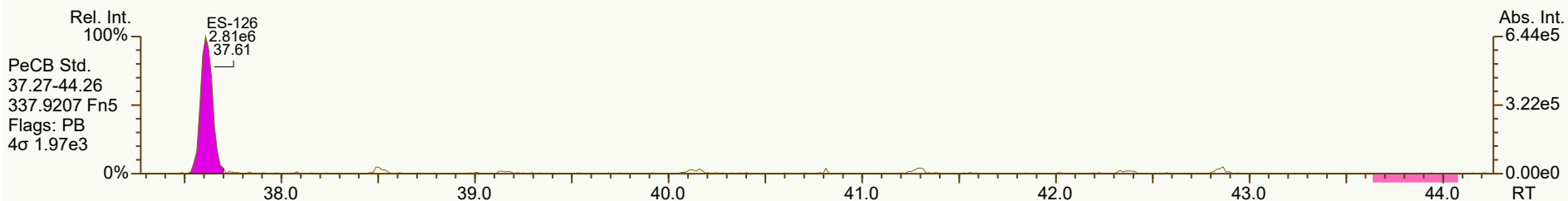
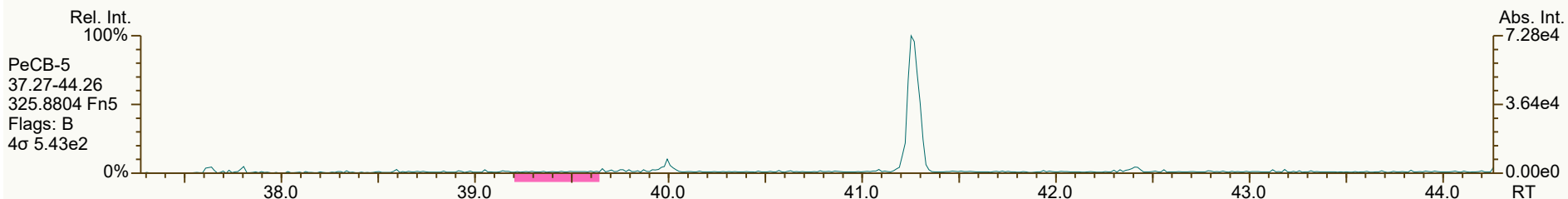
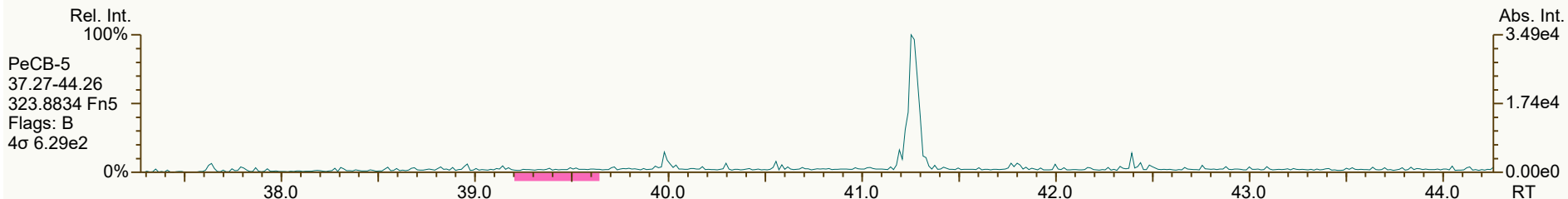
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7533, 7769 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 11 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_004.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6897, 7639 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 12 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7588, 3227 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 13 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



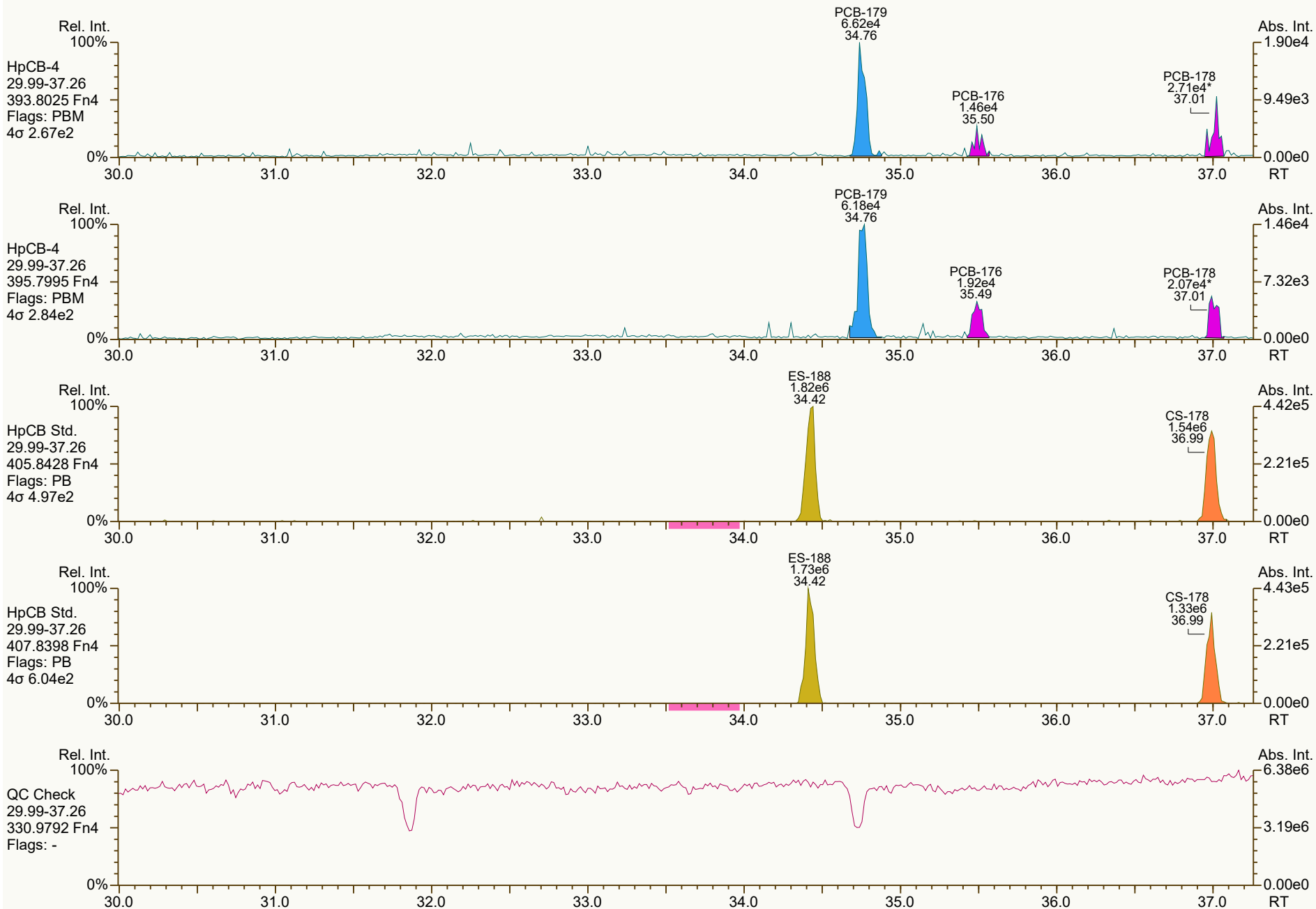
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 3566, 1931 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 14 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8566, 2763 scc: 448-058

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:10 (PSW) Printed: 20-Sep-2024 11:03 Page 15 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



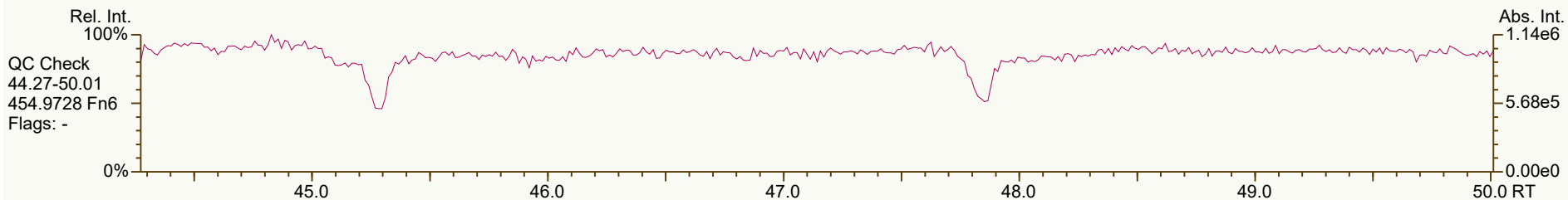
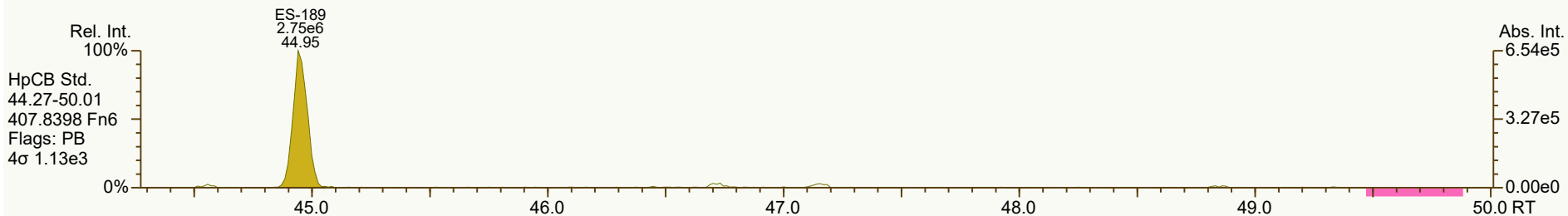
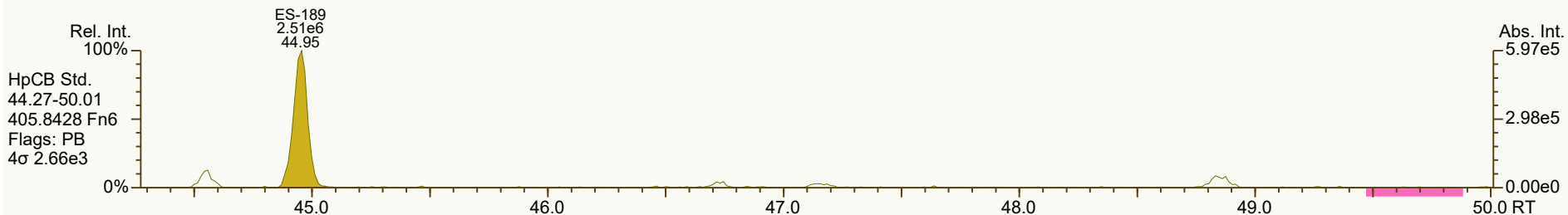
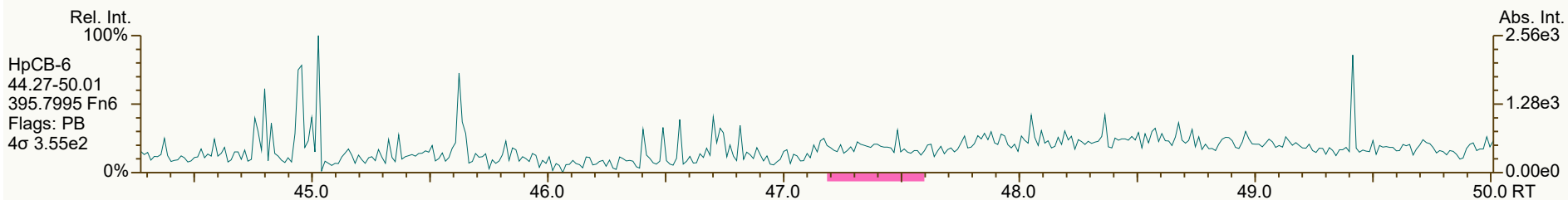
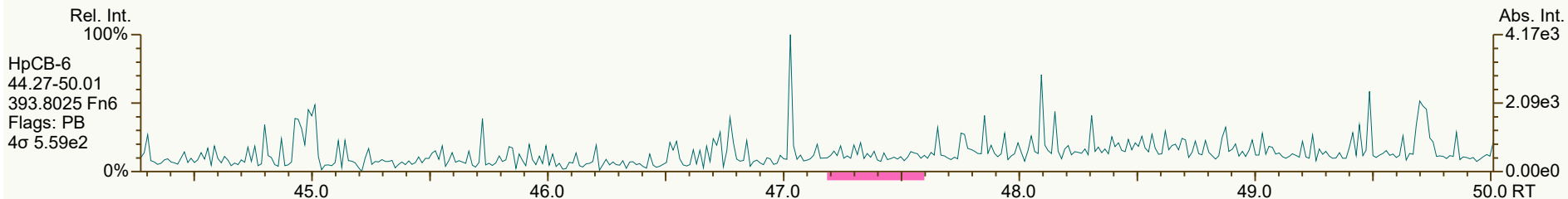
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2963, 0625 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 16 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



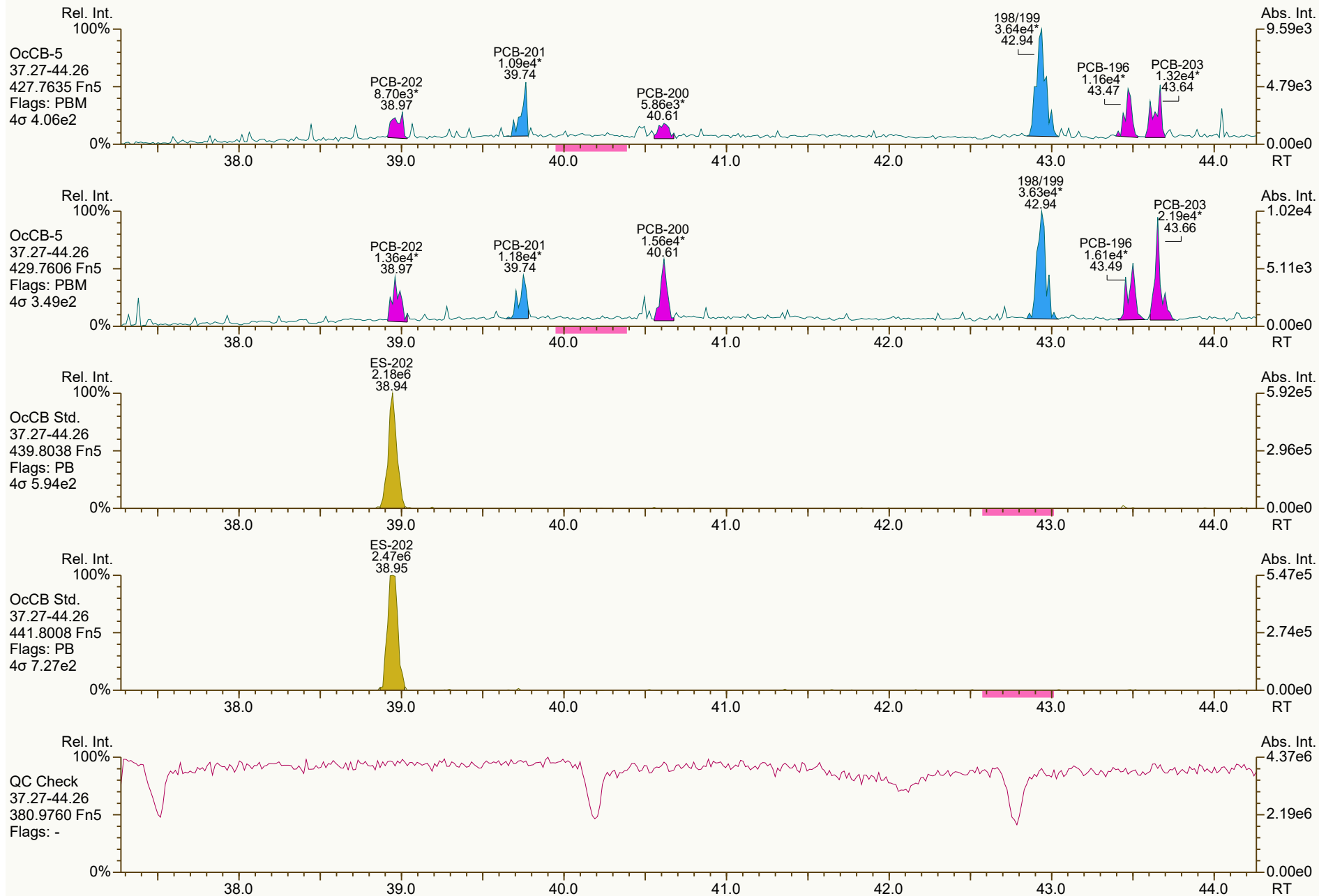
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2171, 5066 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 17 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



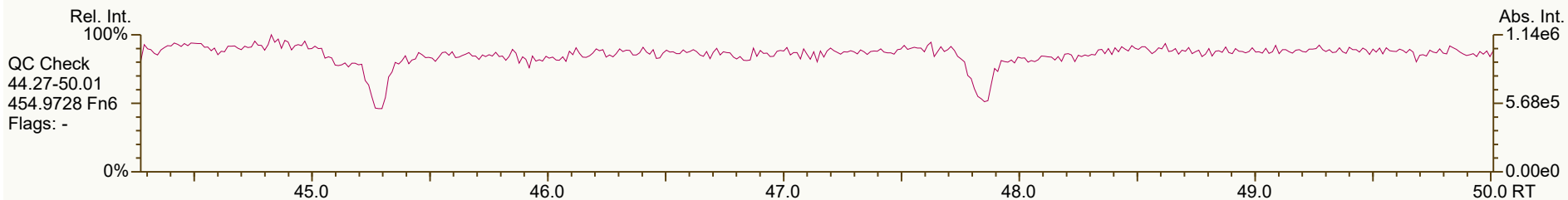
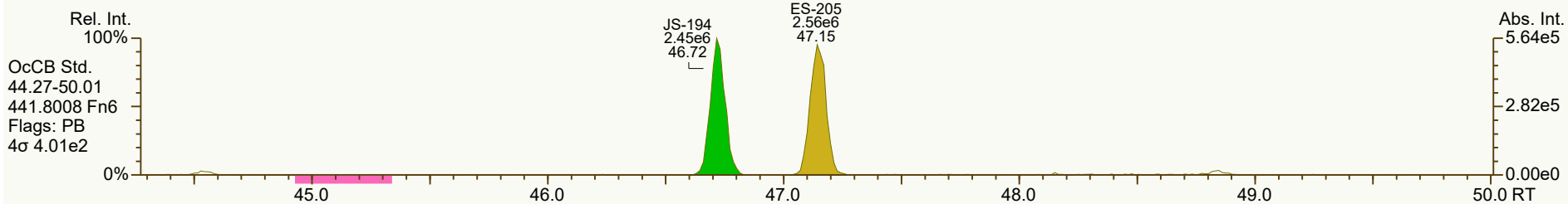
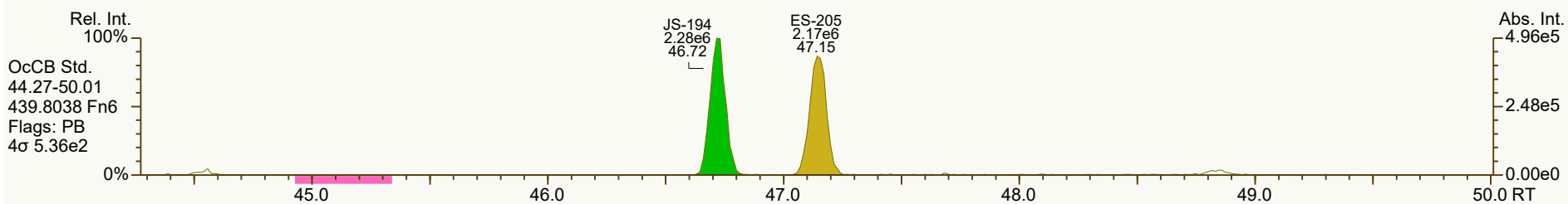
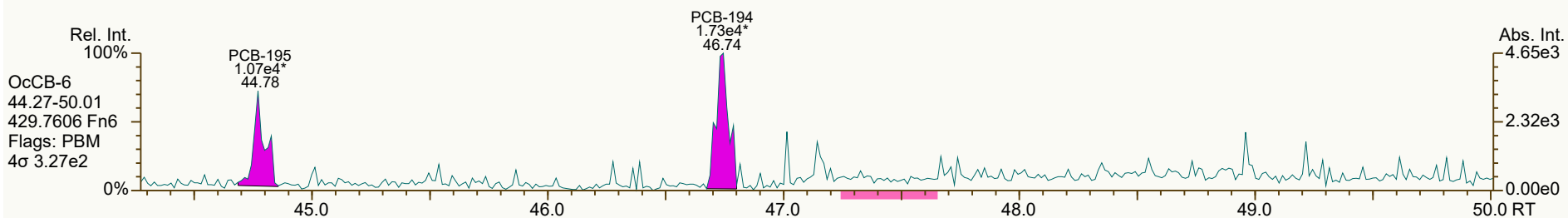
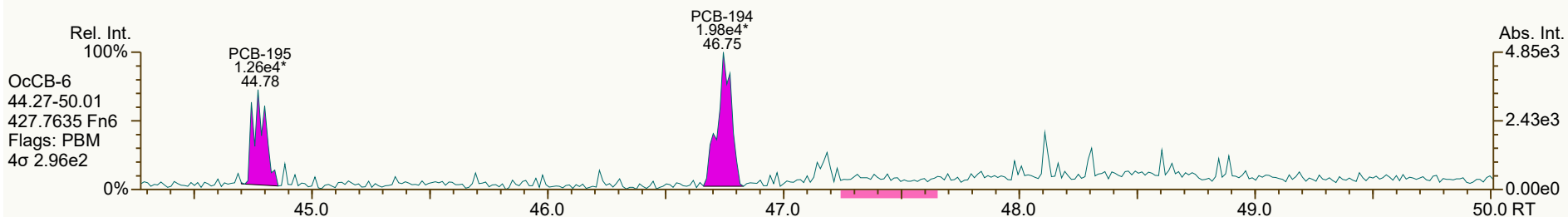
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7851, 0403 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 18 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



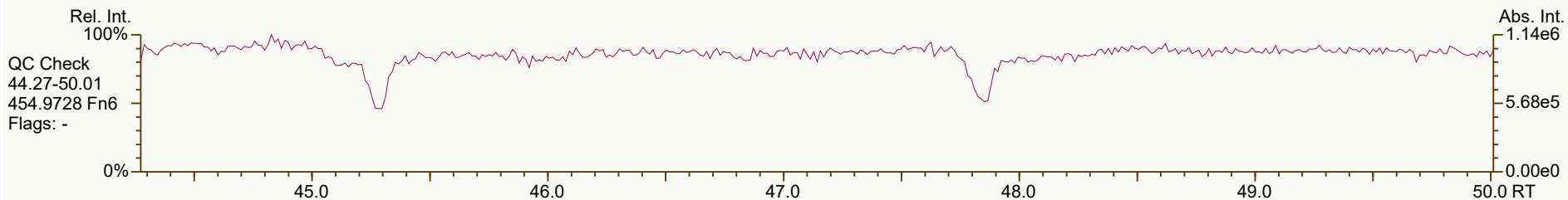
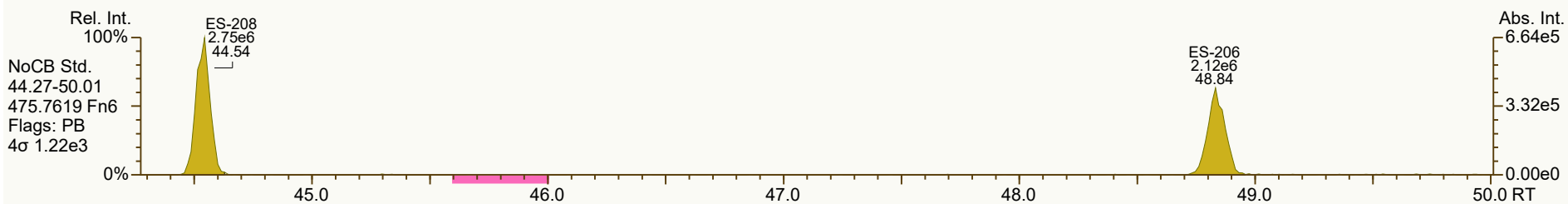
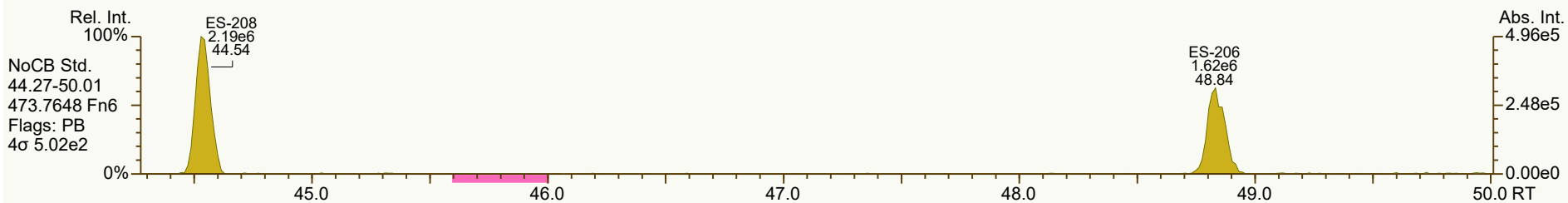
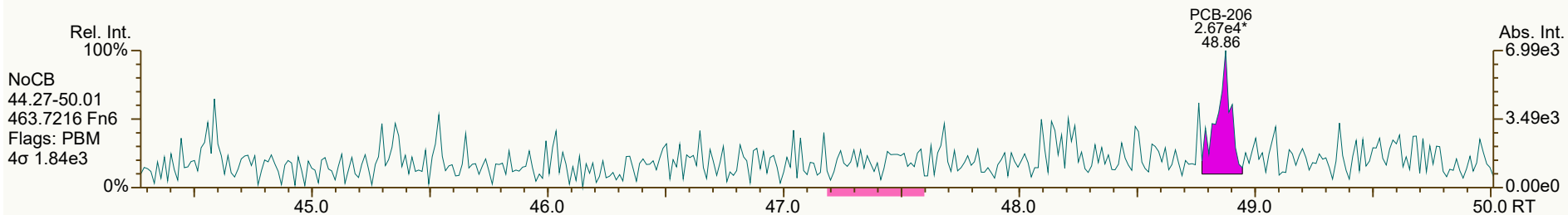
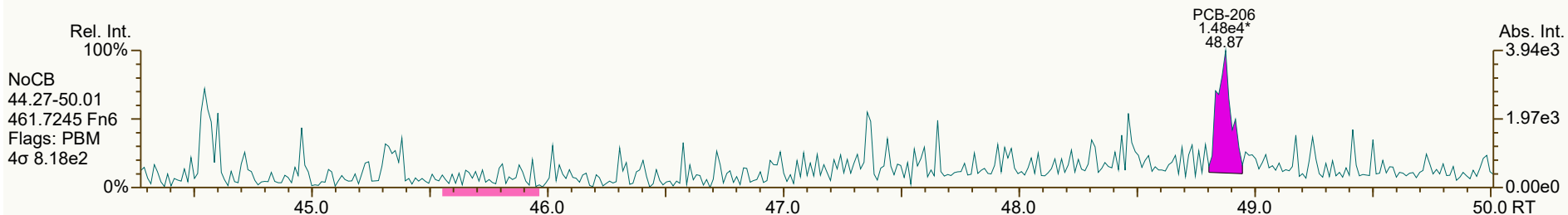
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6281, 4650 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 19 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



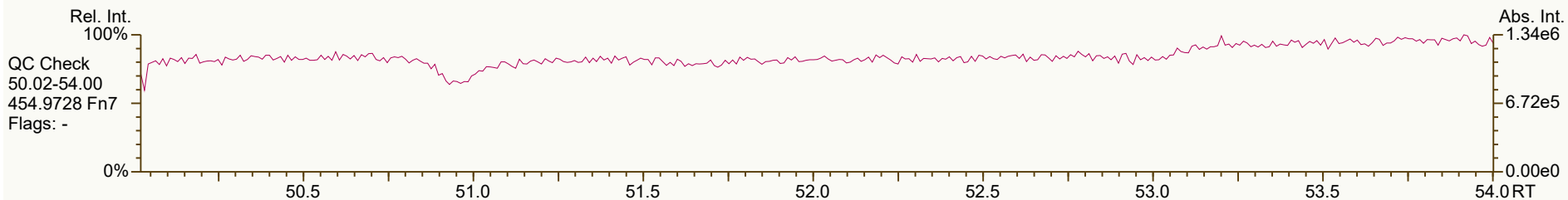
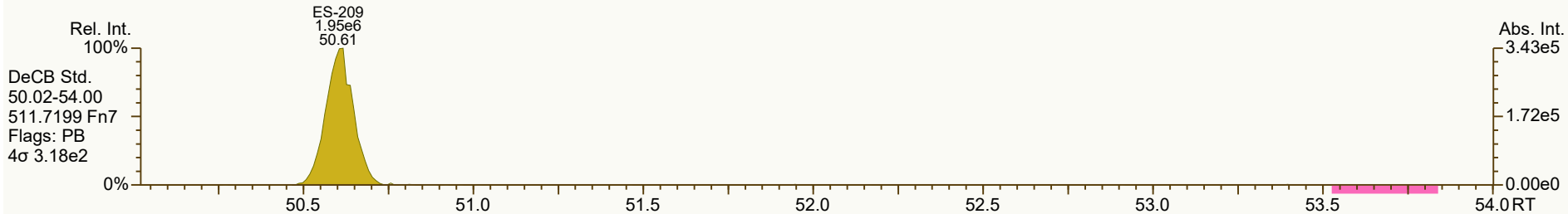
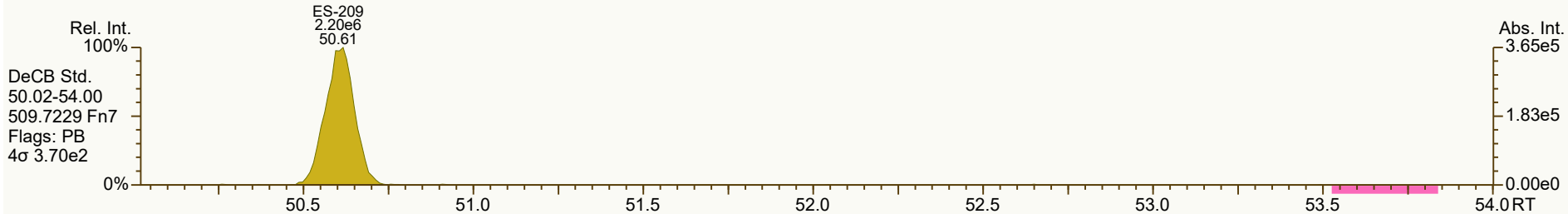
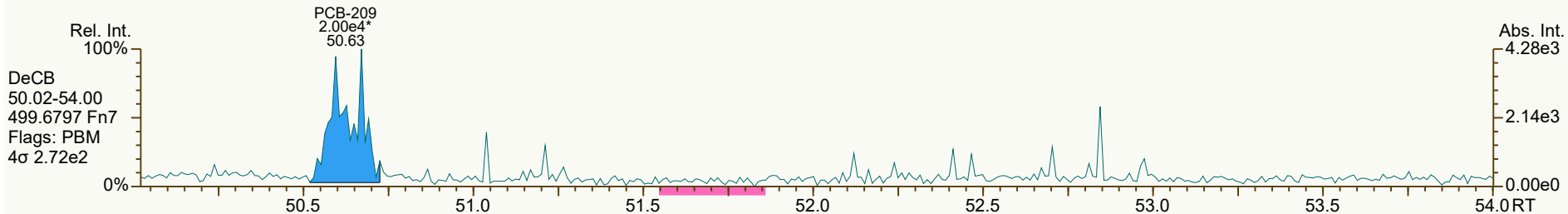
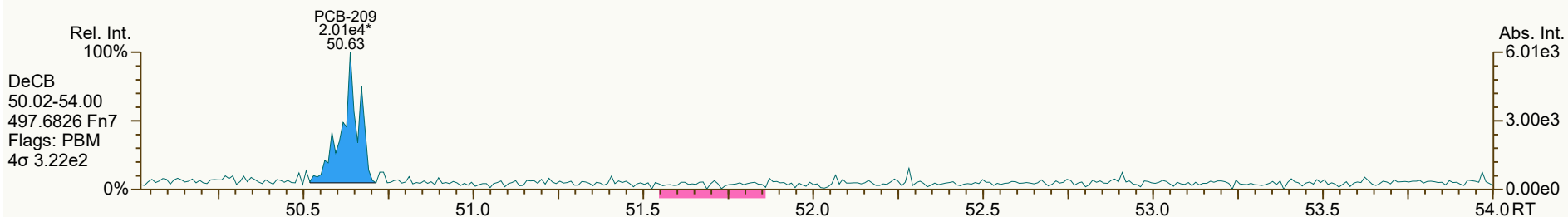
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4362, 7807 scc: 448-058

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:11 Printed: 20-Sep-2024 11:03 Page 20 of 21

SGS ID: B9770_21382_PCB_004
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#3 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 73

Acq: 17-Sep-2024 23:54:31
User: RAB Datafile: 240917S14



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_004.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7578, 4588 scc: 448-058

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:11 (PSW) Printed: 20-Sep-2024 11:03 Page 21 of 21

Lab ID: B9770_21382_PCB_005-RJ

ACQ: 18-Sep-2024 16:12:47 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#2 Mill Off

UTP: 27-Sep-2024 13:10:14 PSW

J-level: 20 pg Split: 2

Checkcode: 664-149-HVC/C

Datafile: 240918S06

RPT: 27-Sep-2024 13:17 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------|--------------|----------|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-77 33'44'-TeCB | 32.08 | | 1.0006 | 1.0006 | 0 | 4.33E+05 | 0.86 | 1.45 | 220 | 4.96E+03 | 24.8 |
| PCB-81 344'5'-TeCB | 31.60 | | 1.0005 | 1.0004 | -0.2 | 1.48E+05 | 0.88 | 1.46 | 69 | 4.96E+03 | 25.2 |
| PCB-105 233'44'-PeCB | 35.04 | B EMPC | 1.0007 | 1.0007 | 0 | 2.02E+05 | 0.89 | 1.18 | 136 | 5.09E+03 | 37.5 |
| PCB-114 2344'5'-PeCB | ND | | 1.0007 | | | | | 1.14 | ND | 5.09E+03 | 34.1 |
| PCB-118 23'44'5'-PeCB | 34.03 | | 1.0007 | 1.0009 | +0.4 | 6.82E+05 | 0.63 | 1.18 | 458 | 5.09E+03 | 37.2 |
| PCB-123 23'44'5'-PeCB | ND | | 1.0006 | | | | | 1.19 | ND | 5.09E+03 | 35.1 |
| PCB-126 33'44'5'-PeCB | 37.63 | B | 1.0005 | 1.0004 | -0.2 | 6.60E+04 | 0.57 | 1.35 | 33.8 | 2.55E+03 | 13.9 |
| PCB-156/157 ...-HxCB | 40.15 | B EMPC C | 1.0005 | 1.0003 | -0.5 | 5.96E+04 | 1.45 | 1.23 | 42.2 | 1.87E+03 | 20.8 |
| PCB-167 23'44'55'-HxCB | 39.16 | B | 1.0005 | 1.0005 | 0 | 4.40E+04 | 1.12 | 1.22 | 28.1 | 1.87E+03 | 12.6 |
| PCB-169 33'44'55'-HxCB | ND | | 1.0005 | | | | | 1.23 | ND | 1.87E+03 | 14.8 |
| PCB-189 233'44'55'-HpCB | ND | | 1.0004 | | | | | 1.31 | ND | 9.70E+02 | 5.57 |
| PCB-209 DeCB | ND | | 1.0005 | | | | | 1.08 | ND | 4.82E+02 | 6.5 |
| | | | | | | | | | | 20% | 145% |
| ES PCB-1 | 11.53 | | 0.7229 | 0.7239 | +0.7 | 2.05E+06 | 2.48 | 1.09 | 31 % | 5% | 145% |
| ES PCB-3 | 13.76 | | 0.8630 | 0.8642 | +1.0 | 4.10E+06 | 1.96 | 1.06 | 63.4 % | 5% | 145% |
| ES PCB-4 | 14.14 | | 0.8788 | 0.8880 | +7.8 | 1.41E+06 | 1.52 | 0.52 | 44.6 % | 5% | 145% |
| ES PCB-15 | 19.59 | | 1.2319 | 1.2302 | -2.0 | 4.69E+06 | 1.46 | 1.11 | 69.3 % | 5% | 145% |
| ES PCB-19 | 17.01 | | 1.0691 | 1.0679 | -1.2 | 3.03E+06 | 1.03 | 0.54 | 92.2 % | 5% | 145% |
| ES PCB-37 | 25.79 | | 1.0809 | 1.0805 | -0.6 | 5.13E+06 | 1.00 | 1.71 | 54.7 % | 5% | 145% |
| ES PCB-54 | 19.91 | | 0.8306 | 0.8341 | +4.2 | 2.68E+06 | 0.79 | 0.78 | 62.7 % | 5% | 145% |
| ES PCB-77 | 32.06 | | 1.3442 | 1.3433 | -1.7 | 5.42E+06 | 0.70 | 1.53 | 64.6 % | 10% | 145% |
| ES PCB-81 | 31.58 | | 1.3240 | 1.3232 | -1.5 | 5.89E+06 | 0.74 | 1.55 | 69 % | 10% | 145% |
| ES PCB-104 | 24.70 | | 0.8294 | 0.8295 | +0.1 | 2.88E+06 | 1.65 | 0.74 | 82.5 % | 10% | 145% |
| ES PCB-105 | 35.01 | | 1.1761 | 1.1758 | -0.6 | 5.05E+06 | 1.57 | 1.31 | 82.4 % | 10% | 145% |
| ES PCB-114 | 34.46 | | 1.1575 | 1.1572 | -0.6 | 5.19E+06 | 1.56 | 1.34 | 82.4 % | 10% | 145% |
| ES PCB-118 | 34.00 | | 1.1420 | 1.1418 | -0.4 | 5.04E+06 | 1.46 | 1.35 | 79.4 % | 10% | 145% |
| ES PCB-123 | 33.72 | | 1.1327 | 1.1324 | -0.6 | 4.98E+06 | 1.51 | 1.29 | 82.4 % | 10% | 145% |
| ES PCB-126 | 37.61 | | 1.2635 | 1.2630 | -1.1 | 5.78E+06 | 1.36 | 1.59 | 77.2 % | 10% | 145% |
| ES PCB-153 | 35.56 | | 0.9707 | 0.9708 | +0.2 | 4.00E+06 | 1.14 | 1.10 | 79.4 % | 10% | 145% |
| ES PCB-155 | 29.57 | | 0.8072 | 0.8074 | +0.4 | 4.19E+06 | 1.12 | 1.38 | 66.5 % | 10% | 145% |
| ES PCB-156/157 | 40.14 | C | 1.0958 | 1.0958 | 0 | 9.18E+06 | 1.12 | 1.62 | 61.9 % | 10% | 145% |
| ES PCB-167 | 39.14 | | 1.0687 | 1.0686 | -0.2 | 5.16E+06 | 1.18 | 1.70 | 66.3 % | 10% | 145% |
| ES PCB-169 | 42.84 | | 1.1697 | 1.1696 | -0.3 | 4.64E+06 | 1.10 | 1.55 | 65.3 % | 10% | 145% |
| ES PCB-170 | 42.34 | | 0.9066 | 0.9066 | 0 | 3.76E+06 | 1.05 | 1.06 | 80.9 % | 10% | 145% |
| ES PCB-180 | 41.27 | | 0.8835 | 0.8836 | +0.2 | 4.39E+06 | 1.02 | 1.30 | 76.8 % | 10% | 145% |
| ES PCB-188 | 34.42 | | 0.9398 | 0.9399 | +0.2 | 2.87E+06 | 1.03 | 0.63 | 100 % | 10% | 145% |
| ES PCB-189 | 44.94 | | 0.9621 | 0.9622 | +0.3 | 5.24E+06 | 0.95 | 1.71 | 69.8 % | 10% | 145% |
| ES PCB-202 | 38.94 | | 1.0632 | 1.0630 | -0.5 | 3.93E+06 | 0.85 | 0.96 | 89.8 % | 10% | 145% |
| ES PCB-205 | 47.13 | | 1.0091 | 1.0091 | 0 | 4.67E+06 | 0.87 | 1.23 | 86.2 % | 10% | 145% |
| ES PCB-206 | 48.82 | | 1.0453 | 1.0452 | -0.3 | 3.52E+06 | 0.77 | 0.84 | 95.1 % | 10% | 145% |

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------|------------------|----|-------------------|-------------------|-----------------|---------------------|-----------------|-----------------|-------------------|-------------------|-----------------|
| | | | | | | | | | | 20% | 145% |
| ES PCB-208 | 44.53 | | 0.9533 | 0.9534 | +0.3 | 4.70E+06 | 0.78 | 1.25 | 85.4 % | 10% | 145% |
| ES PCB-209 | 50.58 | | 1.0832 | 1.0830 | -0.6 | 4.06E+06 | 1.15 | 0.94 | 98.1 % | 10% | 145% |
| | | | | | | | | | | 70% | 130% |
| SS PCB-28 | 22.27 | | 0.9327 | 0.9329 | +0.3 | 4.59E+06 | 0.97 | 1.01 | 88.2 % | 5% | 145% |
| SS PCB-111 | 32.04 | | 1.0762 | 1.0761 | -0.2 | 4.38E+06 | 1.47 | 0.97 | 90.8 % | 10% | 145% |
| SS PCB-178 | 36.99 | | 1.0098 | 1.0098 | 0 | 2.25E+06 | 1.05 | 0.74 | 106 % | 10% | 145% |
| ES PCB-20 | 22.27 | | 0.9327 | 0.9329 | +0.3 | 4.59E+06 | 0.97 | 1.73 | 40.2 % | 5% | 145% |
| ES PCB-111 | 32.04 | | 1.0762 | 1.0761 | -0.2 | 4.38E+06 | 1.47 | 1.25 | 74.0 % | 10% | 145% |
| ES PCB-178 | 36.99 | | 1.0098 | 1.0098 | 0 | 2.25E+06 | 1.05 | 0.46 | 106 % | 10% | 145% |

| | | | | | | | | | | | |
|------------|-------|--|--|--|--|----------|------|--|--|--|--|
| JS PCB-9 | 15.93 | | | | | 6.09E+06 | 1.60 | | | | |
| JS PCB-52 | 23.87 | | | | | 5.50E+06 | 0.84 | | | | |
| JS PCB-101 | 29.78 | | | | | 4.69E+06 | 1.43 | | | | |
| JS PCB-138 | 36.63 | | | | | 4.58E+06 | 1.07 | | | | |
| JS PCB-194 | 46.70 | | | | | 4.40E+06 | 0.92 | | | | |

| | Totals | NON-EMPC | EMPC | DL |
|--|----------|-----------|-----------|------|
| | Mono-CB | 7,550,000 | 7,550,000 | 296 |
| | Di-CB | 896,000 | 896,000 | 96.2 |
| | Tri-CB | 128,000 | 128,000 | 41.4 |
| | Tetra-CB | 49,400 | 49,700 | 24.9 |
| | Penta-CB | 13,600 | 35,000 | 28.6 |
| | Hexa-CB | 20,800 | 21,300 | 13.4 |
| | Hepta-CB | 6,290 | 6,470 | 9.14 |
| | Octa-CB | 313 | 775 | 5.77 |
| | Nona-CB | 0 | 0 | 28.7 |

Lab ID: B9770_21382_PCB_005-RJ

ACQ: 18-Sep-2024 16:12:47 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#2 Mill Off

UTP: 27-Sep-2024 13:10:14 PSW

J-level: 20 pg Split: 2

Checkcode: 664-149-HVC/C

Datafile: 240918S06

RPT: 27-Sep-2024 13:17 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|--------------|-----|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-1 2-MoCB | 11.54 | E | 1.0012 | 1.0010 | -0.1 | 1.93E+09 | 3.21 | 1.47 | 2,550,000 | 2.07E+04 | 416 |
| PCB-2 3-MoCB | 13.60 | E | 0.9878 | 0.9878 | 0 | 4.49E+09 | 3.24 | 1.28 | 3,440,000 | 2.07E+04 | 201 |
| PCB-3 4-MoCB | 13.78 | E | 1.0010 | 1.0008 | -0.2 | 2.34E+09 | 3.18 | 1.45 | 1,570,000 | 2.07E+04 | 176 |
| PCB-4 22'-DiCB | 14.15 | | 1.0012 | 1.0005 | -0.6 | 1.19E+07 | 1.54 | 1.30 | 26,100 | 1.96E+03 | 19.3 |
| PCB-10 26-DiCB | 14.25 | | 1.0132 | 1.0077 | -4.7 | 1.49E+07 | 1.56 | 1.60 | 26,400 | 1.96E+03 | 15.6 |
| PCB-9 25-DiCB | 15.94 | | 1.0010 | 1.0009 | -0.1 | 7.04E+07 | 1.55 | 1.08 | 55,400 | 2.08E+04 | 210 |
| PCB-7 24-DiCB | 16.08 | E | 1.0110 | 1.0096 | -1.4 | 9.15E+07 | 1.52 | 0.96 | 81,400 | 2.08E+04 | 237 |
| PCB-6 23'-DiCB | 16.34 | E | 1.0257 | 1.0263 | +0.6 | 1.45E+08 | 1.53 | 1.12 | 110,000 | 2.08E+04 | 203 |
| PCB-5 23-DiCB | 16.62 | E | 1.0444 | 1.0437 | -0.7 | 9.74E+07 | 1.54 | 0.93 | 88,900 | 2.08E+04 | 243 |
| PCB-8 24'-DiCB | 16.73 | | 1.0517 | 1.0506 | -1.1 | 9.10E+07 | 1.54 | 1.16 | 66,600 | 2.08E+04 | 195 |
| PCB-14 35-DiCB | 18.23 | E | 0.9312 | 0.9308 | -0.4 | 1.23E+08 | 1.55 | 0.97 | 109,000 | 2.08E+04 | 235 |
| PCB-11 33'-DiCB | 19.04 | | 0.9713 | 0.9719 | +0.7 | 9.36E+07 | 1.53 | 1.06 | 75,400 | 2.08E+04 | 214 |
| PCB-13/12 34'/34-DiCB | 19.32 | E C | 0.9860 | 0.9859 | -0.1 | 2.74E+08 | 1.53 | 0.94 | 249,000 | 2.08E+04 | 241 |
| PCB-15 44'-DiCB | 19.61 | | 1.0008 | 1.0009 | +0.1 | 1.28E+07 | 1.52 | 1.31 | 8,310 | 2.08E+04 | 173 |
| PCB-19 22'6-TrCB | 17.02 | | 1.0010 | 1.0009 | -0.1 | 2.33E+06 | 1.04 | 1.16 | 2,650 | 4.01E+03 | 39.4 |
| PCB-30/18 246/22'5-TrCB | 18.74 | C | 1.1015 | 1.1018 | +0.3 | 1.52E+07 | 1.06 | 1.47 | 13,600 | 4.01E+03 | 31.2 |
| PCB-17 22'4-TrCB | 19.13 | | 1.1254 | 1.1250 | -0.5 | 5.96E+06 | 1.03 | 1.04 | 7,520 | 4.01E+03 | 43.9 |
| PCB-27 23'6-TrCB | 19.32 | | 1.1371 | 1.1358 | -1.5 | 4.49E+06 | 1.04 | 1.44 | 4,120 | 4.01E+03 | 31.9 |
| PCB-24 236-TrCB | 19.44 | | 1.1444 | 1.1428 | -1.9 | 4.09E+06 | 1.05 | 1.47 | 3,670 | 4.01E+03 | 31.2 |
| PCB-16 22'3-TrCB | 19.55 | | 1.1508 | 1.1493 | -1.8 | 5.18E+06 | 1.06 | 1.01 | 6,790 | 4.01E+03 | 45.6 |
| PCB-32 24'6-TrCB | 20.07 | | 1.1782 | 1.1799 | +2.0 | 2.88E+06 | 1.08 | 1.62 | 2,350 | 4.01E+03 | 28.3 |
| PCB-34 23'5'-TrCB | 21.12 | | 0.8181 | 0.8188 | +0.9 | 7.69E+06 | 1.10 | 1.13 | 5,310 | 7.59E+03 | 55 |
| PCB-23 235-TrCB | 21.26 | | 0.8235 | 0.8242 | +0.9 | 8.15E+06 | 1.07 | 1.12 | 5,660 | 7.59E+03 | 55.3 |
| PCB-26/29 23'5/245-TrCB | 21.55 | C | 0.8347 | 0.8357 | +1.3 | 1.91E+07 | 1.07 | 1.13 | 13,100 | 7.59E+03 | 54.9 |
| PCB-25 23'4-TrCB | 21.75 | | 0.8426 | 0.8433 | +0.9 | 9.71E+06 | 1.09 | 1.38 | 5,480 | 7.59E+03 | 44.9 |
| PCB-31 24'5-TrCB | 22.02 | | 0.8534 | 0.8540 | +0.8 | 9.50E+06 | 1.05 | 1.32 | 5,610 | 7.59E+03 | 47 |
| PCB-28/20 244'/233'-TrCB | 22.31 | C | 0.8642 | 0.8649 | +0.9 | 1.65E+07 | 1.07 | 1.21 | 10,600 | 7.59E+03 | 51.2 |
| PCB-21/33 234/23'4'-TrCB | 22.49 | C | 0.8710 | 0.8721 | +1.5 | 2.25E+07 | 1.08 | 1.18 | 14,800 | 7.59E+03 | 52.4 |
| PCB-22 234'-TrCB | 22.86 | | 0.8859 | 0.8863 | +0.5 | 6.15E+06 | 1.06 | 1.28 | 3,760 | 7.59E+03 | 48.6 |
| PCB-36 33'5-TrCB | 24.20 | | 0.9383 | 0.9385 | +0.3 | 8.73E+06 | 1.08 | 1.35 | 5,030 | 7.59E+03 | 45.9 |
| PCB-39 34'5-TrCB | 24.52 | | 0.9508 | 0.9508 | 0 | 4.69E+06 | 1.09 | 1.23 | 2,980 | 7.59E+03 | 50.6 |
| PCB-38 345-TrCB | 25.04 | | 0.9709 | 0.9709 | 0 | 9.49E+06 | 1.09 | 1.24 | 5,970 | 7.59E+03 | 50.1 |
| PCB-35 33'4-TrCB | 25.45 | | 0.9867 | 0.9866 | -0.2 | 9.61E+06 | 1.07 | 1.18 | 6,350 | 7.59E+03 | 52.6 |
| PCB-37 344'-TrCB | 25.81 | | 1.0007 | 1.0007 | 0 | 3.89E+06 | 1.07 | 1.43 | 2,120 | 7.59E+03 | 43.3 |
| PCB-54 22'66'-TeCB | 19.94 | | 1.0010 | 1.0014 | +0.5 | 2.20E+05 | 0.77 | 1.52 | 216 | 2.99E+03 | 33.2 |
| PCB-50/53 22'46/22'56'-TeCB | 21.79 | C | 0.9128 | 0.9130 | +0.3 | 2.79E+06 | 0.80 | 0.88 | 2,140 | 2.62E+03 | 21.9 |
| PCB-45 22'36'-TeCB | 22.39 | | 0.9377 | 0.9380 | +0.4 | 1.95E+06 | 0.77 | 0.72 | 1,830 | 2.62E+03 | 26.8 |
| PCB-51 22'46'-TeCB | 22.45 | | 0.9403 | 0.9405 | +0.3 | 1.04E+06 | 0.80 | 0.92 | 771 | 2.62E+03 | 21.1 |
| PCB-46 22'36'-TeCB | 22.67 | | 0.9496 | 0.9497 | +0.1 | 7.04E+05 | 0.75 | 0.71 | 671 | 2.62E+03 | 27.2 |
| PCB-52 22'55'-TeCB | 23.89 | | 1.0010 | 1.0009 | -0.1 | 2.97E+07 | 0.78 | 1.00 | 20,300 | 2.62E+03 | 19.5 |
| PCB-73 23'5'6-TeCB | 24.01 | | 1.0061 | 1.0057 | -0.6 | 5.74E+05 | 0.79 | 1.23 | 318 | 2.62E+03 | 15.8 |

Lab ID: B9770_21382_PCB_005-RJ

ACQ: 18-Sep-2024 16:12:47 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#2 Mill Off

UTP: 27-Sep-2024 13:10:14 PSW

J-level: 20 pg Split: 2

Checkcode: 664-149-HVC/C

Datafile: 240918S06

RPT: 27-Sep-2024 13:17 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|---------------------------------|-----------|------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-43 22'35'-TeCB | 24.10 | | 1.0099 | 1.0098 | -0.1 | 6.66E+05 | 0.77 | 0.85 | 530 | 2.62E+03 | 22.7 |
| PCB-69/49 23'46/22'45'-TeCB | 24.31 | C | 1.0177 | 1.0184 | +1.0 | 4.74E+06 | 0.80 | 1.01 | 3,180 | 2.62E+03 | 19.2 |
| PCB-48 22'45'-TeCB | 24.57 | | 1.0295 | 1.0292 | -0.4 | 1.90E+06 | 0.80 | 0.86 | 1,500 | 2.62E+03 | 22.5 |
| PCB-44/47/65 ...-TeCB | 24.78 | C | 1.0386 | 1.0380 | -0.9 | 6.06E+06 | 0.79 | 0.96 | 4,270 | 2.62E+03 | 20.1 |
| PCB-59/62/75 ...-TeCB | 25.05 | C | 1.0499 | 1.0494 | -0.8 | 2.10E+06 | 0.76 | 1.11 | 1,290 | 2.62E+03 | 17.5 |
| PCB-42 22'34'-TeCB | 25.23 | | 1.0575 | 1.0571 | -0.6 | 1.35E+06 | 0.80 | 0.77 | 1,190 | 2.62E+03 | 25.2 |
| PCB-41 22'34'-TeCB | 25.56 | | 1.0713 | 1.0707 | -0.9 | 5.57E+05 | 0.82 | 0.67 | 565 | 2.62E+03 | 29 |
| PCB-71/40 23'4'6/22'33'-TeCB | 25.66 | C | 1.0755 | 1.0749 | -0.9 | 2.60E+06 | 0.76 | 0.95 | 1,860 | 2.62E+03 | 20.5 |
| PCB-64 234'6'-TeCB | 25.85 | | 1.0836 | 1.0831 | -0.8 | 1.49E+06 | 0.76 | 1.15 | 882 | 2.62E+03 | 16.9 |
| PCB-72 23'55'-TeCB | 26.56 | | 0.8404 | 0.8410 | +1.0 | 7.61E+05 | 0.74 | 1.21 | 427 | 4.96E+03 | 30.3 |
| PCB-68 23'45'-TeCB | 26.80 | | 0.8483 | 0.8487 | +0.6 | 8.84E+05 | 0.79 | 1.16 | 518 | 4.96E+03 | 31.7 |
| PCB-57 233'5'-TeCB | 27.17 | | 0.8601 | 0.8603 | +0.3 | 9.05E+05 | 0.76 | 1.17 | 527 | 4.96E+03 | 31.5 |
| PCB-58 233'5'-TeCB | 27.38 | | 0.8668 | 0.8670 | +0.3 | 5.23E+05 | 0.78 | 1.32 | 269 | 4.96E+03 | 27.7 |
| PCB-67 23'45'-TeCB | 27.53 | | 0.8713 | 0.8716 | +0.5 | 1.11E+06 | 0.77 | 1.34 | 564 | 4.96E+03 | 27.4 |
| PCB-63 234'5'-TeCB | 27.77 | | 0.8785 | 0.8792 | +1.2 | 6.02E+05 | 0.79 | 1.13 | 362 | 4.96E+03 | 32.6 |
| PCB-61/70/74/76 ...-TeCB | 28.05 | C | 0.8878 | 0.8881 | +0.5 | 4.79E+06 | 0.79 | 1.18 | 2,750 | 4.96E+03 | 31 |
| PCB-66 23'44'-TeCB | 28.33 | | 0.8967 | 0.8970 | +0.5 | 1.64E+06 | 0.79 | 1.27 | 881 | 4.96E+03 | 29 |
| PCB-55 233'4'-TeCB | 28.49 | | 0.9016 | 0.9019 | +0.5 | 3.53E+05 | 0.82 | 1.26 | 190 | 4.96E+03 | 29 |
| PCB-56 233'4'-TeCB | 28.92 | | 0.9155 | 0.9157 | +0.3 | 1.17E+06 | 0.79 | 1.23 | 648 | 4.96E+03 | 29.9 |
| PCB-60 2344'-TeCB | 29.11 | EMPC | 0.9214 | 0.9216 | +0.3 | 2.60E+05 | 0.96 | 1.05 | 168 | 4.96E+03 | 35 |
| PCB-80 33'55'-TeCB | 29.41 | EMPC | 0.9309 | 0.9311 | +0.4 | 2.57E+05 | 0.91 | 1.24 | 140 | 4.96E+03 | 29.5 |
| PCB-79 33'45'-TeCB | 30.74 | | 0.9732 | 0.9732 | 0 | 6.71E+05 | 0.81 | 1.40 | 325 | 4.96E+03 | 26.2 |
| PCB-78 33'45'-TeCB | 31.22 | | 0.9884 | 0.9887 | +0.6 | 3.06E+05 | 0.81 | 1.16 | 179 | 4.96E+03 | 31.6 |
| PCB-104 22'466'-PeCB | 24.73 | EMPC | 1.0009 | 1.0010 | +0.1 | 1.65E+05 | 0.74 | 1.46 | 157 | 1.43E+03 | 13.8 |
| PCB-96 22'366'-PeCB | 25.07 | | 1.0147 | 1.0147 | 0 | 4.65E+05 | 0.66 | 1.21 | 536 | 1.43E+03 | 16.8 |
| PCB-103 22'45'6'-PeCB | 26.75 | EMPC | 0.8968 | 0.8981 | +2.1 | 3.83E+05 | 1.63 | 0.76 | 404 | 5.09E+03 | 54.8 |
| PCB-94 22'356'-PeCB | ND | | 0.9036 | | | | | 0.63 | ND | 5.09E+03 | 66 |
| PCB-95 22'35'6'-PeCB | 27.31 | EMPC | 0.9167 | 0.9170 | +0.5 | 7.81E+06 | 0.90 | 0.72 | 8,660 | 5.09E+03 | 57.8 |
| PCB-100/93 22'44'6/22'356'-PeCB | ND | C | 0.9229 | | | | | 0.68 | ND | 5.09E+03 | 61.8 |
| PCB-102 22'456'-PeCB | 27.64 | EMPC | 0.9269 | 0.9280 | +1.8 | 1.00E+06 | 1.89 | 0.82 | 985 | 5.09E+03 | 51.1 |
| PCB-98 22'34'6'-PeCB | ND | | 0.9292 | | | | | 0.80 | ND | 5.09E+03 | 52.4 |
| PCB-88 22'346'-PeCB | ND | | 0.9390 | | | | | 0.62 | ND | 5.09E+03 | 66.9 |
| PCB-91 22'34'6'-PeCB | 28.04 | | 0.9416 | 0.9418 | +0.3 | 1.25E+06 | 0.59 | 0.80 | 1,260 | 5.09E+03 | 52.5 |
| PCB-84 22'33'6'-PeCB | 28.27 | EMPC | 0.9486 | 0.9494 | +1.4 | 1.45E+06 | 0.84 | 0.62 | 1,890 | 5.09E+03 | 67.9 |
| PCB-89 22'346'-PeCB | 28.66 | | 0.9623 | 0.9625 | +0.3 | 1.18E+05 | 0.61 | 0.74 | 127 | 5.09E+03 | 56.2 |
| PCB-121 23'45'6'-PeCB | 28.96 | EMPC | 0.9725 | 0.9723 | -0.3 | 1.27E+05 | 1.15 | 1.10 | 93.1 | 5.09E+03 | 38.1 |
| PCB-92 22'355'-PeCB | 29.30 | | 0.9839 | 0.9839 | 0 | 1.10E+06 | 0.59 | 0.70 | 1,260 | 5.09E+03 | 59.6 |
| PCB-113/90/101 ...-PeCB | 29.79 | C | 0.9999 | 1.0005 | +1.1 | 6.19E+06 | 0.57 | 0.81 | 6,130 | 5.09E+03 | 51.6 |
| PCB-83 22'33'5'-PeCB | 30.23 | EMPC | 1.0148 | 1.0151 | +0.5 | 3.89E+06 | 0.46 | 0.59 | 5,250 | 5.09E+03 | 70.4 |
| PCB-99 22'44'5'-PeCB | 30.30 | | 1.0174 | 1.0175 | +0.2 | 1.37E+06 | 0.60 | 0.95 | 1,150 | 5.09E+03 | 43.9 |
| PCB-112 233'56'-PeCB | ND | | 1.0210 | | | | | 1.18 | ND | 5.09E+03 | 35.3 |

Lab ID: B9770_21382_PCB_005-RJ

ACQ: 18-Sep-2024 16:12:47 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#2 Mill Off

UTP: 27-Sep-2024 13:10:14 PSW

J-level: 20 pg Split: 2

Checkcode: 664-149-HVC/C

Datafile: 240918S06

RPT: 27-Sep-2024 13:17 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------------|--------------|----------|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-109/119/86/97/125...-PeCB | 30.76 | EMPC C | 1.0327 | 1.0329 | +0.4 | 4.10E+06 | 0.51 | 0.87 | 3,770 | 5.09E+03 | 47.9 |
| PCB-117 234'56-PeCB | ND | | 1.0504 | | | | | 0.96 | ND | 5.09E+03 | 43.7 |
| PCB-116/85 23456/22'344'-PeCB | 31.36 | C | 1.0533 | 1.0531 | -0.4 | 3.64E+05 | 0.64 | 0.83 | 351 | 5.09E+03 | 50.3 |
| PCB-110 233'4'6-PeCB | 31.50 | | 1.0579 | 1.0577 | -0.4 | 2.60E+06 | 0.63 | 1.11 | 1,880 | 5.09E+03 | 37.6 |
| PCB-115 2344'6-PeCB | ND | | 1.0600 | | | | | 1.11 | ND | 5.09E+03 | 37.5 |
| PCB-82 22'33'4-PeCB | 31.78 | | 1.0675 | 1.0672 | -0.6 | 1.91E+05 | 0.55 | 0.73 | 209 | 5.09E+03 | 57.2 |
| PCB-111 233'55'-PeCB | 32.07 | B EMPC | 1.0770 | 1.0768 | -0.4 | 4.93E+04 | 0.78 | 1.02 | 38.9 | 5.09E+03 | 41.1 |
| PCB-120 23'455'-PeCB | ND | | 1.0902 | | | | | 1.24 | ND | 5.09E+03 | 33.8 |
| PCB-108/124 ...-PeCB | 33.44 | B EMPC C | 0.9915 | 0.9917 | +0.4 | 7.67E+04 | 0.47 | 1.00 | 61.5 | 5.09E+03 | 41.8 |
| PCB-107 233'4'5-PeCB | 33.66 | | 0.9975 | 0.9981 | +1.2 | 2.22E+05 | 0.62 | 1.12 | 160 | 5.09E+03 | 37.4 |
| PCB-106 233'45-PeCB | ND | | 1.0038 | | | | | 1.07 | ND | 5.09E+03 | 39.1 |
| PCB-122 233'4'5'-PeCB | ND | | 1.0096 | | | | | 0.84 | ND | 5.09E+03 | 46.6 |
| PCB-127 33'455'-PeCB | ND | | 1.0352 | | | | | 1.09 | ND | 5.09E+03 | 40.8 |
| PCB-155 22'44'66'-HxCB | 29.60 | | 1.0007 | 1.0008 | +0.2 | 9.39E+05 | 1.31 | 1.36 | 661 | 7.75E+02 | 5.46 |
| PCB-152 22'3566'-HxCB | 29.79 | EMPC | 1.0075 | 1.0074 | -0.2 | 7.30E+04 | 1.01 | 1.22 | 57.3 | 7.75E+02 | 6.1 |
| PCB-150 22'34'66'-HxCB | 29.93 | | 1.0119 | 1.0120 | +0.2 | 2.22E+05 | 1.09 | 1.07 | 199 | 7.75E+02 | 6.95 |
| PCB-136 22'33'66'-HxCB | 30.25 | | 1.0230 | 1.0230 | 0 | 2.63E+06 | 1.31 | 1.01 | 2,480 | 7.75E+02 | 7.31 |
| PCB-145 22'3466'-HxCB | ND | | 1.0313 | | | | | 1.16 | ND | 7.75E+02 | 6.39 |
| PCB-148 22'34'56'-HxCB | 31.74 | EMPC | 1.0735 | 1.0733 | -0.4 | 5.38E+04 | 1.60 | 1.07 | 50.2 | 7.75E+02 | 7.4 |
| PCB-151/135 ...-HxCB | 32.27 | C | 1.0919 | 1.0913 | -1.2 | 3.18E+06 | 1.35 | 1.06 | 3,020 | 7.75E+02 | 7.52 |
| PCB-154 22'44'56'-HxCB | 32.47 | | 1.0979 | 1.0979 | 0 | 2.68E+05 | 1.42 | 1.15 | 232 | 7.75E+02 | 6.88 |
| PCB-144 22'345'6-HxCB | 32.75 | | 1.1074 | 1.1074 | 0 | 4.36E+05 | 1.40 | 1.06 | 412 | 7.75E+02 | 7.5 |
| PCB-147/149 ...-HxCB | 33.05 | C | 1.1177 | 1.1175 | -0.4 | 6.24E+06 | 1.24 | 1.12 | 5,590 | 7.75E+02 | 7.11 |
| PCB-134 22'33'56-HxCB | 33.23 | | 1.1238 | 1.1238 | 0 | 2.62E+05 | 1.32 | 0.85 | 309 | 7.75E+02 | 9.36 |
| PCB-143 22'3456'-HxCB | ND | | 1.1264 | | | | | 1.03 | ND | 7.75E+02 | 7.73 |
| PCB-139/140 ...-HxCB | 33.55 | EMPC C | 1.1348 | 1.1343 | -1.0 | 1.48E+05 | 1.63 | 1.10 | 135 | 7.75E+02 | 7.2 |
| PCB-131 22'33'46-HxCB | 33.75 | EMPC | 1.1412 | 1.1411 | -0.2 | 4.96E+04 | 1.59 | 0.98 | 50.7 | 7.75E+02 | 8.11 |
| PCB-142 22'3456-HxCB | 33.86 | J EMPC | 1.1457 | 1.1450 | -1.4 | 9.75E+03 | 4.85 | 0.97 | 10.1 | 7.75E+02 | 8.21 |
| PCB-132 22'33'46'-HxCB | 34.13 | | 1.1544 | 1.1542 | -0.4 | 1.10E+06 | 1.19 | 1.00 | 1,090 | 7.75E+02 | 7.93 |
| PCB-133 22'33'55'-HxCB | 34.52 | EMPC | 1.1672 | 1.1673 | +0.2 | 7.57E+04 | 1.49 | 1.10 | 69.2 | 7.75E+02 | 7.25 |
| PCB-165 233'55'6-HxCB | ND | | 0.9512 | | | | | 1.29 | ND | 7.75E+02 | 6.15 |
| PCB-146 22'34'55'-HxCB | 35.06 | | 0.9571 | 0.9572 | +0.2 | 6.71E+05 | 1.29 | 1.24 | 543 | 7.75E+02 | 6.41 |
| PCB-161 233'45'6-HxCB | ND | | 0.9601 | | | | | 1.49 | ND | 7.75E+02 | 5.32 |
| PCB-153/168 ...-HxCB | 35.58 | C | 0.9718 | 0.9714 | -0.9 | 3.71E+06 | 1.29 | 1.34 | 2,780 | 7.75E+02 | 5.94 |
| PCB-141 22'3455'-HxCB | 35.76 | | 0.9762 | 0.9764 | +0.4 | 8.06E+05 | 1.21 | 1.01 | 797 | 7.75E+02 | 7.85 |
| PCB-130 22'33'45'-HxCB | ND | | 0.9857 | | | | | 0.89 | ND | 7.75E+02 | 8.92 |
| PCB-137 22'344'5-HxCB | 36.29 | | 0.9909 | 0.9908 | -0.2 | 1.49E+05 | 1.18 | 0.97 | 153 | 7.75E+02 | 8.16 |
| PCB-164 233'4'5'6-HxCB | 36.39 | | 0.9935 | 0.9937 | +0.4 | 3.16E+05 | 1.22 | 1.52 | 208 | 7.75E+02 | 5.22 |
| PCB-163/138/129 ...-HxCB | 36.65 | C | 1.0011 | 1.0006 | -1.1 | 2.13E+06 | 1.23 | 1.08 | 1,970 | 7.75E+02 | 7.32 |
| PCB-160 233'456-HxCB | ND | | 1.0045 | | | | | 1.26 | ND | 7.75E+02 | 6.3 |
| PCB-158 233'44'6-HxCB | 36.98 | | 1.0096 | 1.0097 | +0.2 | 2.98E+05 | 1.07 | 1.45 | 205 | 7.75E+02 | 5.47 |

Lab ID: B9770_21382_PCB_005-RJ

ACQ: 18-Sep-2024 16:12:47 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#2 Mill Off

UTP: 27-Sep-2024 13:10:14 PSW

J-level: 20 pg Split: 2

Checkcode: 664-149-HVC/C

Datafile: 240918S06

RPT: 27-Sep-2024 13:17 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

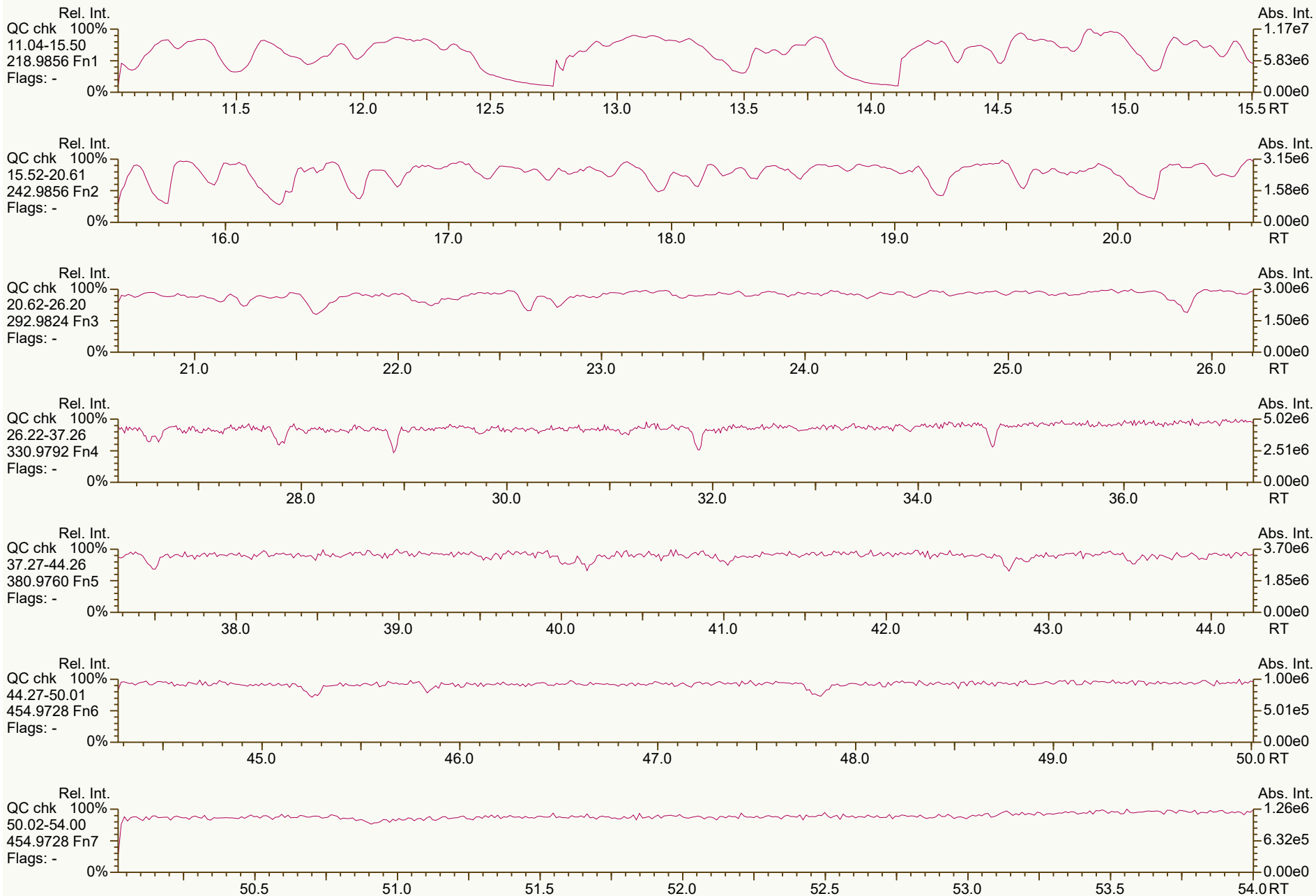
Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-------------------|--------|-------------------|-------------------|--------------|---------------------|-----------------|-----------------|-------------------|-------------------|-----------------|
| PCB-128/166 ...-HxCB | 37.76 | C | 0.9635 | 0.9647 | +2.7 | 2.00E+05 | 1.14 | 0.90 | 173 | 1.87E+03 | 17.1 |
| PCB-159 233'455'-HxCB | 38.50 | EMPC | 0.9840 | 0.9838 | -0.5 | 5.00E+04 | 1.51 | 1.19 | 32.6 | 1.87E+03 | 12.9 |
| PCB-162 233'4'55'-HxCB | ND | | 0.9902 | | | | | 1.01 | ND | 1.87E+03 | 15.2 |
| PCB-188 22'34'566'-HpCB | 34.45 | J EMPC | 1.0006 | 1.0007 | +0.2 | 1.81E+04 | 1.71 | 1.55 | 16.4 | 6.41E+02 | 4.97 |
| PCB-179 22'33'566'-HpCB | 34.76 | | 1.0095 | 1.0097 | +0.4 | 9.35E+05 | 1.00 | 1.32 | 986 | 6.41E+02 | 5.82 |
| PCB-184 22'344'66'-HpCB | 35.17 | EMPC | 1.0219 | 1.0218 | -0.2 | 1.50E+05 | 1.37 | 1.26 | 166 | 6.41E+02 | 6.09 |
| PCB-176 22'33'466'-HpCB | 35.49 | | 1.0312 | 1.0311 | -0.2 | 3.46E+05 | 1.02 | 1.15 | 418 | 6.41E+02 | 6.66 |
| PCB-186 22'34566'-HpCB | ND | | 1.0427 | | | | | 1.37 | ND | 6.41E+02 | 5.6 |
| PCB-178 22'33'55'6'-HpCB | 37.01 | | 1.0752 | 1.0750 | -0.4 | 2.27E+05 | 0.98 | 0.92 | 342 | 6.41E+02 | 8.32 |
| PCB-175 22'33'45'6'-HpCB | 37.55 | | 1.0908 | 1.0907 | -0.2 | 5.79E+04 | 1.19 | 0.99 | 53.4 | 1.23E+03 | 13.1 |
| PCB-187 22'34'55'6'-HpCB | 37.77 | | 1.0974 | 1.0972 | -0.5 | 1.95E+06 | 1.04 | 1.22 | 1,450 | 1.23E+03 | 10.6 |
| PCB-182 22'344'56'-HpCB | ND | | 1.1024 | | | | | 1.18 | ND | 1.23E+03 | 10.9 |
| PCB-183 22'344'5'6'-HpCB | 38.28 | | 1.1124 | 1.1121 | -0.7 | 7.49E+05 | 1.00 | 1.13 | 601 | 1.23E+03 | 11.4 |
| PCB-185 22'3455'6'-HpCB | 38.38 | | 1.1152 | 1.1148 | -0.9 | 1.37E+05 | 0.96 | 0.93 | 133 | 1.23E+03 | 13.8 |
| PCB-174 22'33'456'-HpCB | 38.50 | | 1.1187 | 1.1185 | -0.5 | 9.23E+05 | 1.01 | 1.03 | 815 | 1.23E+03 | 12.5 |
| PCB-177 22'33'45'6'-HpCB | 38.87 | | 1.1296 | 1.1292 | -0.9 | 3.88E+05 | 0.93 | 1.04 | 339 | 1.23E+03 | 12.4 |
| PCB-181 22'344'56'-HpCB | ND | | 1.1391 | | | | | 1.13 | ND | 1.23E+03 | 11.5 |
| PCB-171/173 ...-HpCB | 39.40 | C | 1.1447 | 1.1447 | 0 | 1.71E+05 | 1.00 | 0.94 | 165 | 1.23E+03 | 13.7 |
| PCB-172 22'33'455'-HpCB | 40.75 | | 0.9065 | 0.9067 | +0.5 | 9.64E+04 | 1.18 | 1.00 | 88.2 | 1.23E+03 | 13 |
| PCB-192 233'455'6'-HpCB | ND | | 0.9118 | | | | | 1.43 | ND | 1.23E+03 | 9.01 |
| PCB-180/193 ...-HpCB | 41.29 | C | 0.9181 | 0.9187 | +1.5 | 9.33E+05 | 1.00 | 1.17 | 728 | 1.23E+03 | 11.1 |
| PCB-191 233'44'5'6'-HpCB | ND | | 0.9253 | | | | | 1.27 | ND | 1.23E+03 | 10.2 |
| PCB-170 22'33'44'5'-HpCB | 42.36 | | 0.9427 | 0.9426 | -0.3 | 1.72E+05 | 1.19 | 1.09 | 168 | 1.23E+03 | 12.5 |
| PCB-190 233'44'56'-HpCB | ND | | 0.9525 | | | | | 1.50 | ND | 1.23E+03 | 9.07 |
| PCB-202 22'33'55'66'-OcCB | 38.96 | EMPC | 1.0005 | 1.0005 | 0 | 1.50E+05 | 0.73 | 1.32 | 115 | 5.08E+02 | 4.05 |
| PCB-201 22'33'45'66'-OcCB | 39.74 | EMPC | 1.0204 | 1.0207 | +0.7 | 9.92E+04 | 0.68 | 1.00 | 101 | 5.08E+02 | 5.36 |
| PCB-204 22'344'566'-OcCB | ND | | 1.0349 | | | | | 1.13 | ND | 5.08E+02 | 4.74 |
| PCB-197 22'33'44'66'-OcCB | 40.48 | EMPC | 1.0399 | 1.0397 | -0.5 | 3.59E+04 | 1.23 | 1.04 | 35 | 5.08E+02 | 5.13 |
| PCB-200 22'33'4566'-OcCB | 40.60 | EMPC | 1.0428 | 1.0428 | 0 | 5.24E+04 | 1.23 | 1.05 | 50.6 | 5.08E+02 | 5.07 |
| PCB-198/199 ...-OcCB | 42.93 | C | 1.1020 | 1.1026 | +1.5 | 2.03E+05 | 0.81 | 0.89 | 233 | 5.08E+02 | 6.03 |
| PCB-196 22'33'44'56'-OcCB | 43.48 | EMPC | 1.1166 | 1.1168 | +0.5 | 6.37E+04 | 0.67 | 0.83 | 78.4 | 5.08E+02 | 6.47 |
| PCB-203 22'344'55'6'-OcCB | 43.65 | EMPC | 1.1208 | 1.1210 | +0.5 | 7.99E+04 | 0.70 | 0.99 | 81.6 | 5.08E+02 | 5.37 |
| PCB-195 22'33'44'56'-OcCB | 44.78 | | 0.9499 | 0.9500 | +0.3 | 2.87E+04 | 0.86 | 0.82 | 30.1 | 8.53E+02 | 10.3 |
| PCB-194 22'33'44'55'-OcCB | 46.73 | | 0.9914 | 0.9916 | +0.6 | 4.97E+04 | 0.86 | 0.85 | 49.9 | 8.53E+02 | 9.83 |
| PCB-205 233'44'55'6'-OcCB | ND | | 1.0004 | | | | | 1.12 | ND | 8.53E+02 | 7.49 |
| PCB-208 22'33'455'66'-NoCB | ND | | 1.0005 | | | | | 1.11 | ND | 2.49E+03 | 21 |
| PCB-207 22'33'44'566'-NoCB | ND | | 1.0180 | | | | | 0.91 | ND | 2.49E+03 | 25.5 |
| PCB-206 22'33'44'55'6'-NoCB | ND | | 1.0005 | | | | | 1.04 | ND | 2.49E+03 | 36.5 |
| AS PCB-32 FS | 20.049 | V | 1.2584 | 1.259 | +0.7 | 2.94E+06 | 1.02 | 0.77 | 62.7 % | 50% | 150% |
| AS PCB-97 FS | 30.716 | | 1.0317 | 1.0315 | -0.4 | 3.37E+06 | 1.54 | 0.86 | 83.1 % | 50% | 150% |
| AS PCB-159 NR | 38.498 | | 1.0511 | 1.0511 | 0 | 5.76E+06 | 1.13 | 1.57 | 79.9 % | 50% | 150% |
| | | | | | | | | | | 70% | 130% |

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



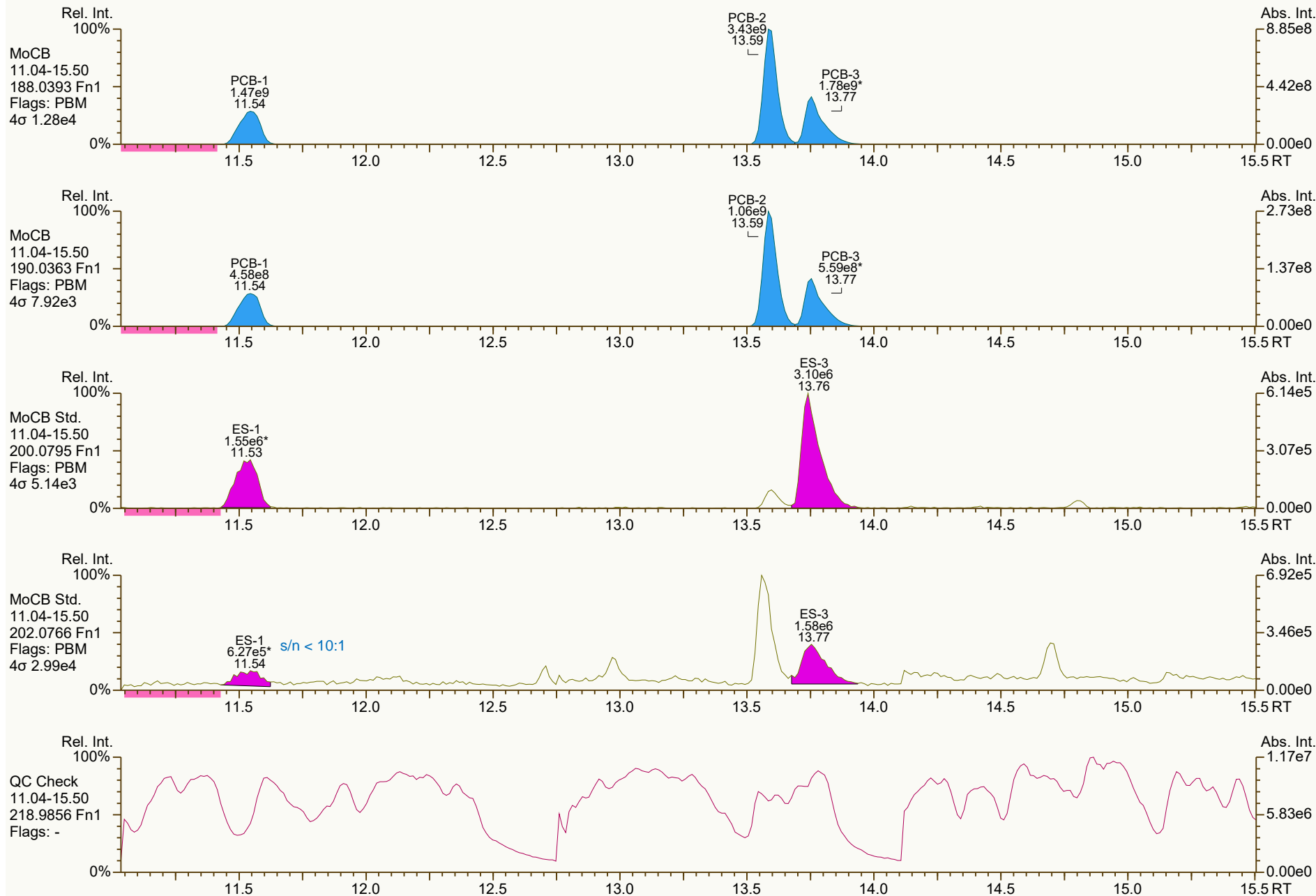
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q scc: 664-149

Peak annotation: Areas, Centroids
PKD: n/a Printed: 27-Sep-2024 13:18 Page 1 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



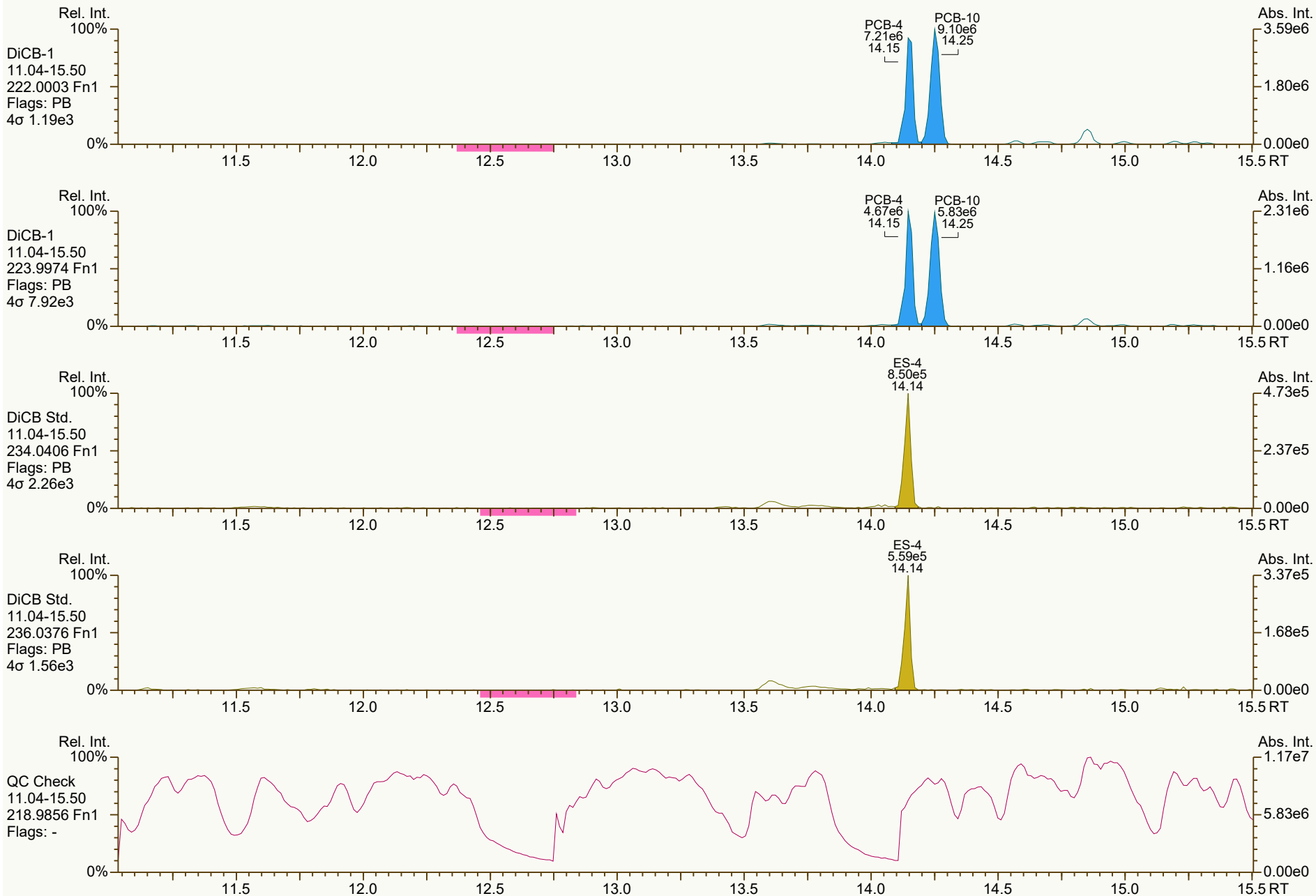
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6636, 9260 scc: 664-149

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:18 Page 2 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



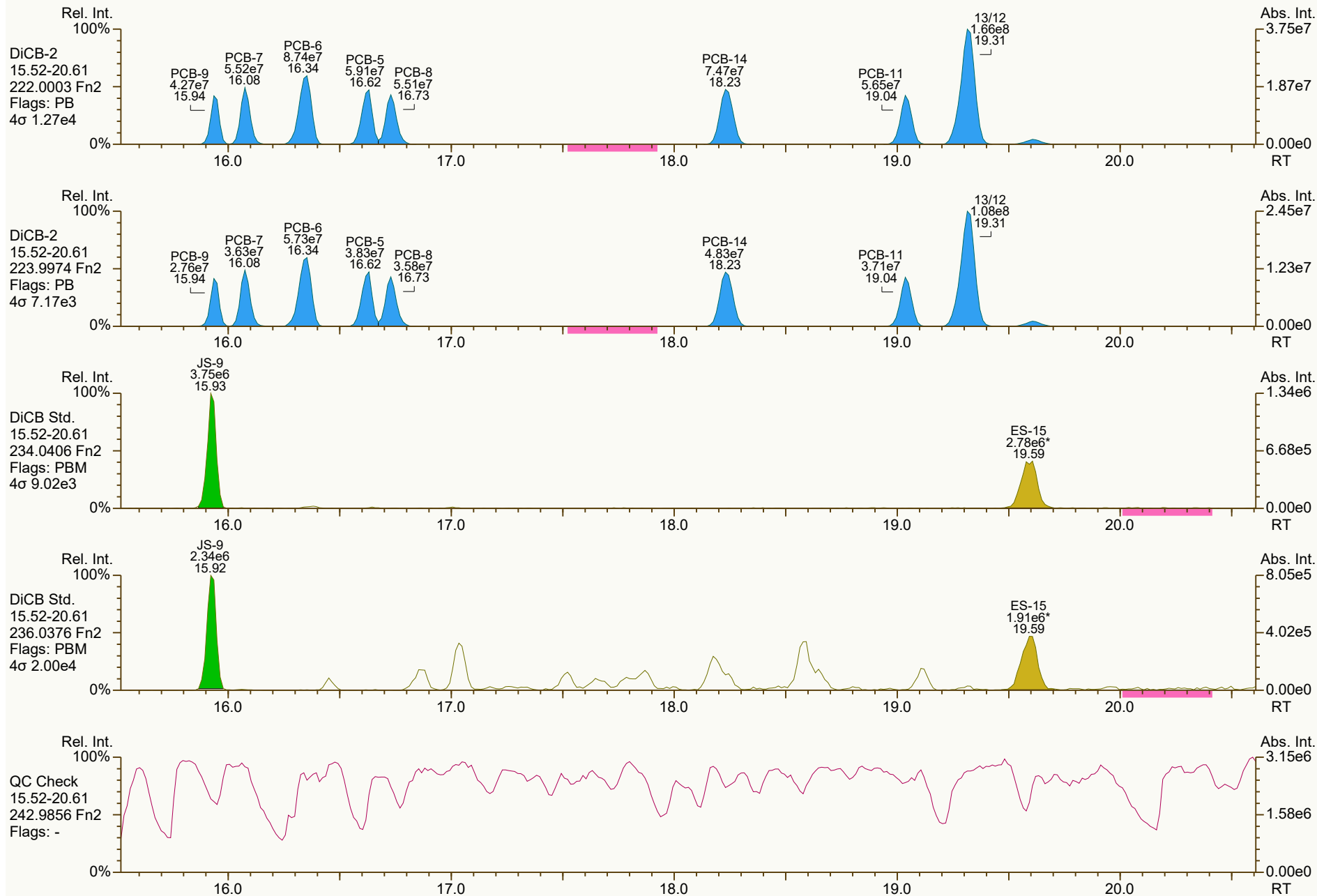
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9712, 6312 scc: 664-149

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:18 Page 3 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



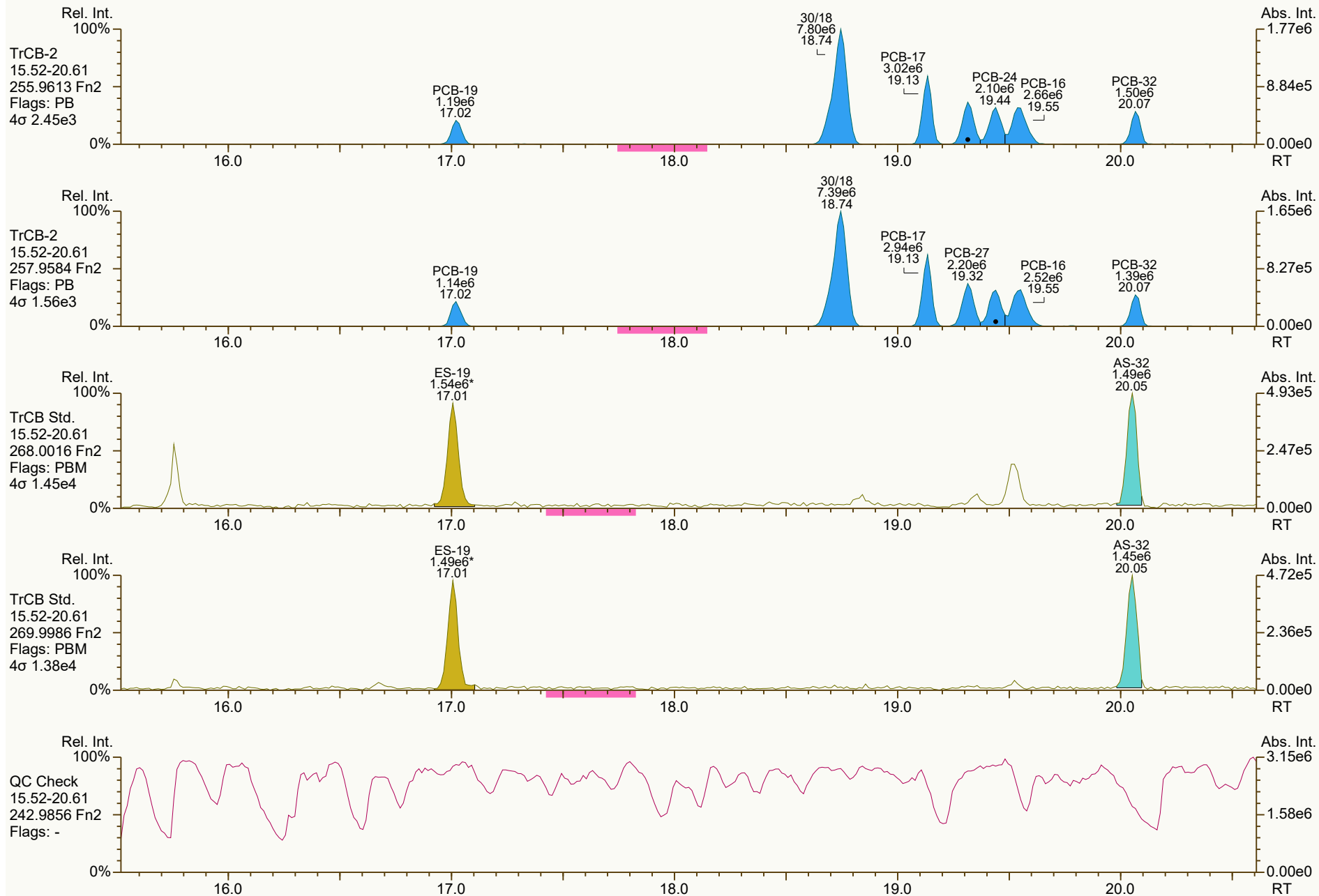
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:18 Page 4 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



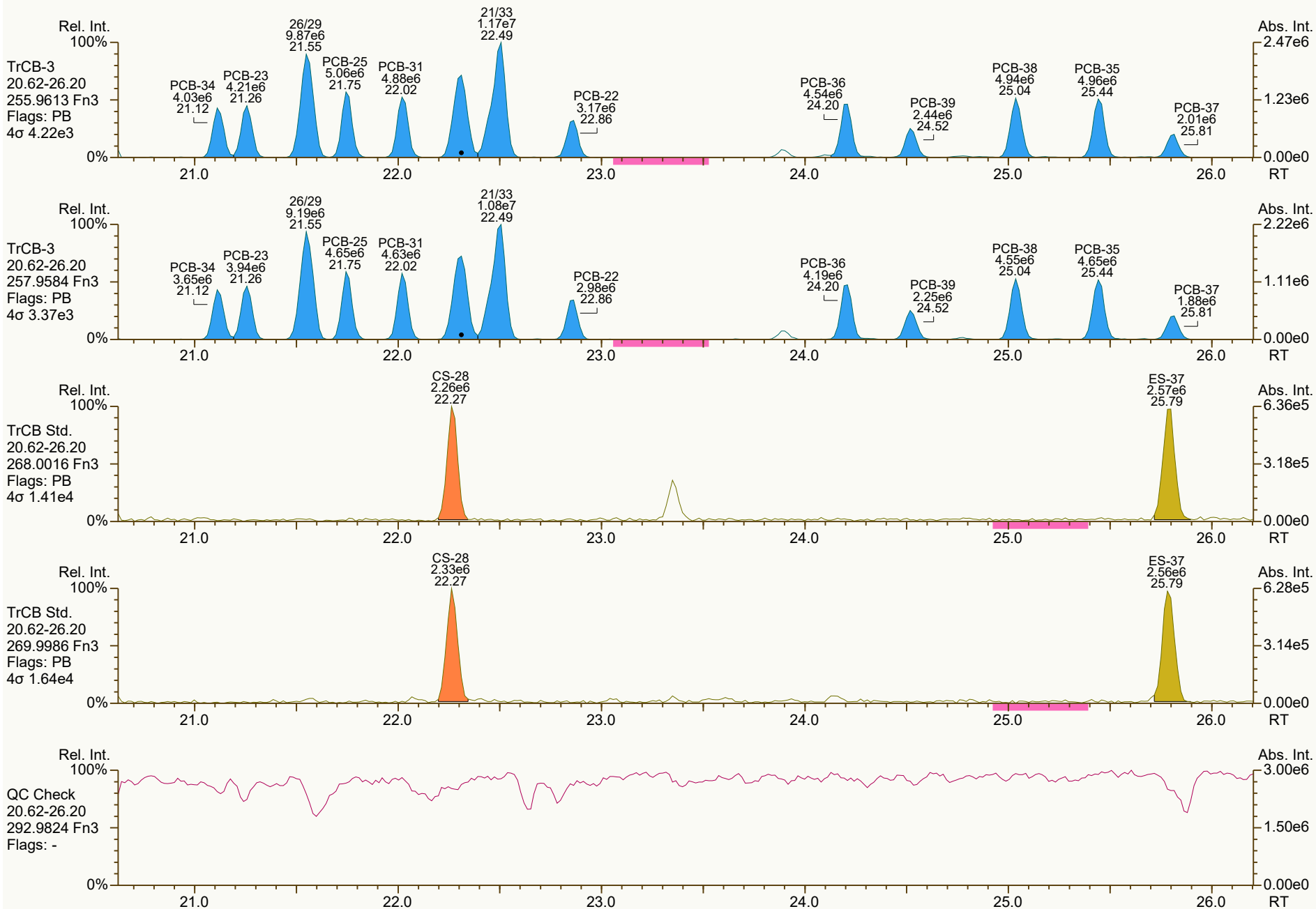
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7963, 2018 scc: 664-149

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:19 Page 5 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6385, 0985 scc: 664-149

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:19 Page 6 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_005-RJ.utp_res, saved 27-Sep-2024 13:11 (PSW)
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:19 Page 7 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



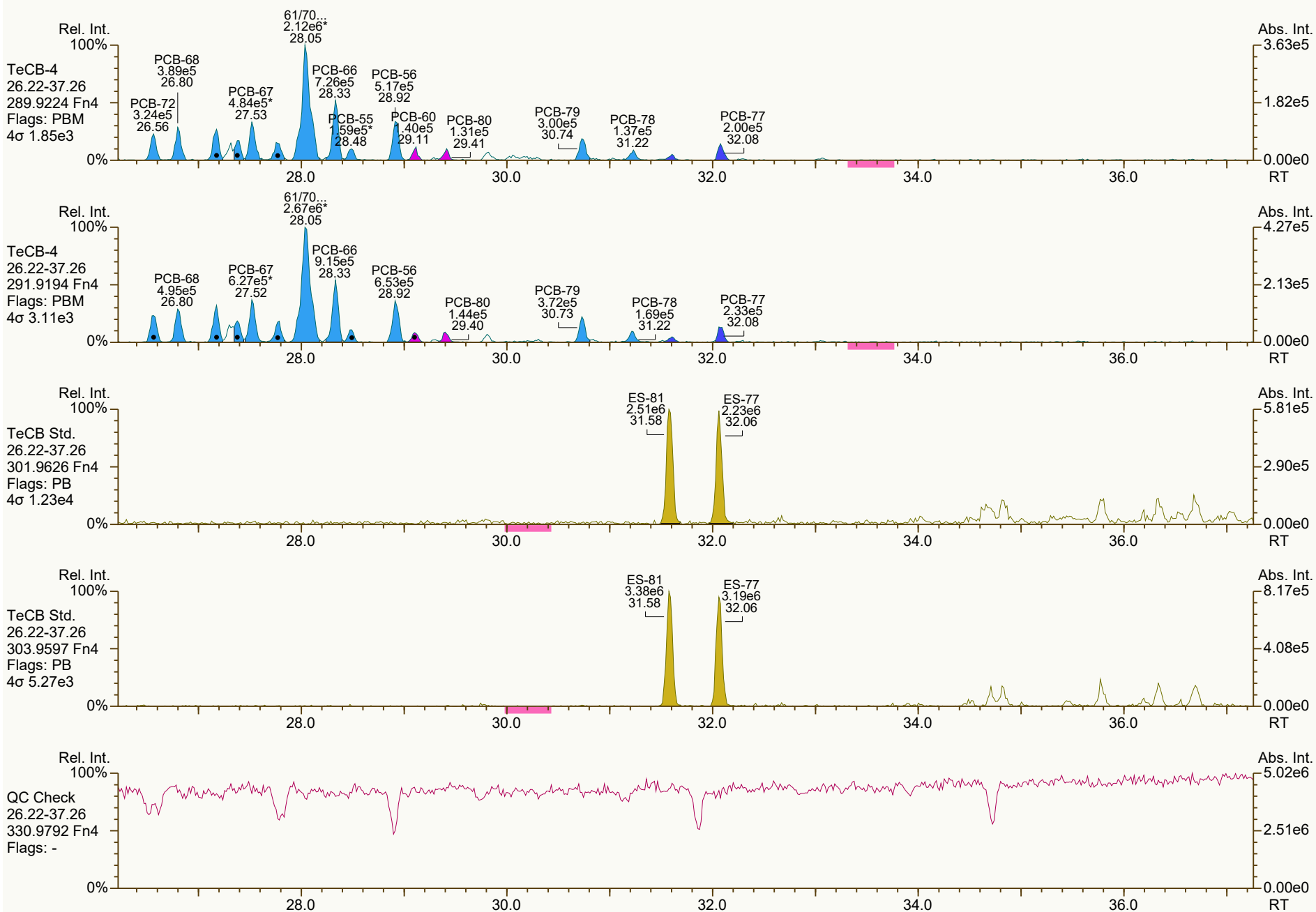
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 1238, 2640 scc: 664-149

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:19 Page 8 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_005-RJ.utp_res, saved 27-Sep-2024 13:11 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2096, 9894 scc: 664-149

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:19 Page 9 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



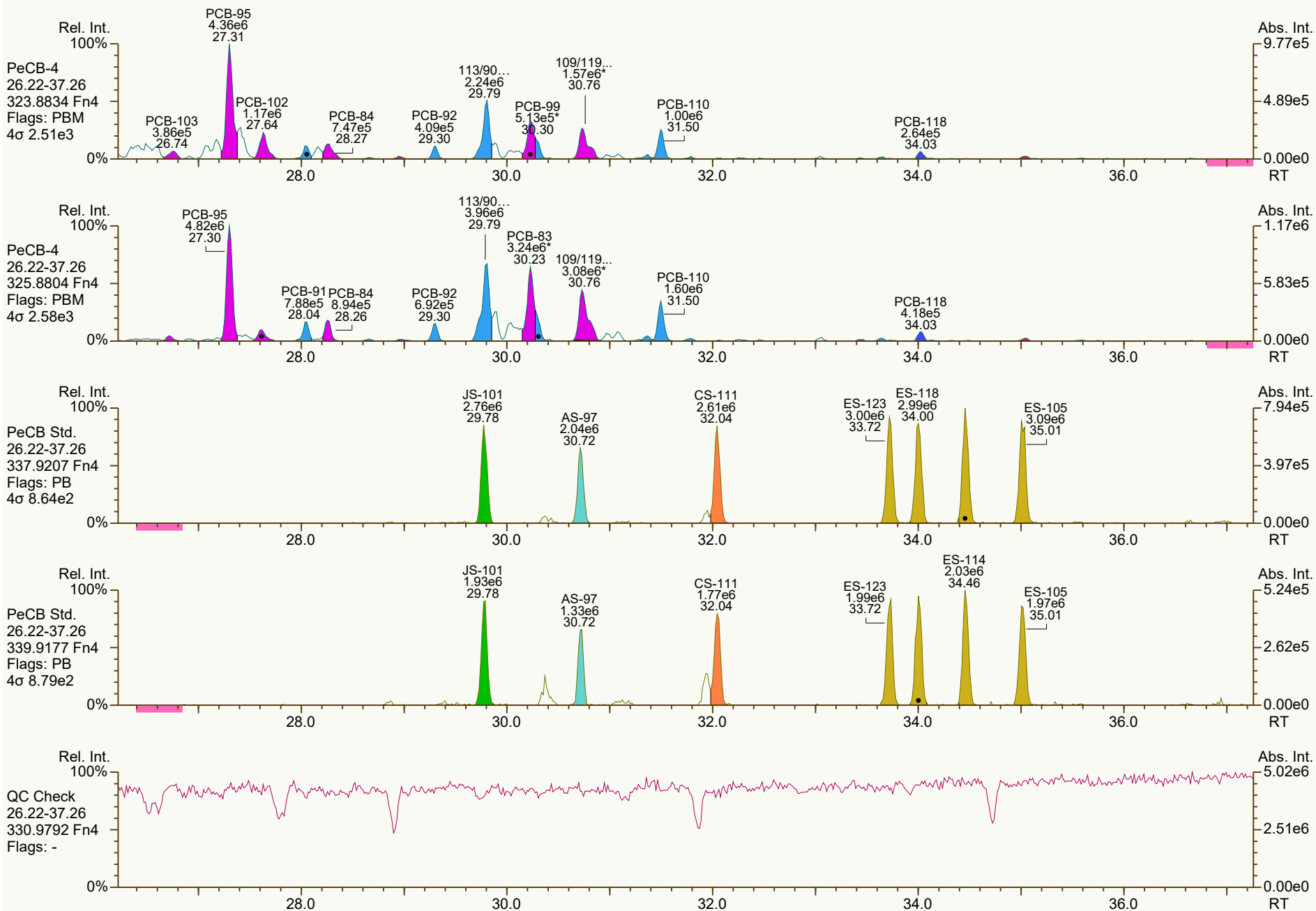
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 3561, 6467 scc: 664-149

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:22 (PSW) Printed: 27-Sep-2024 13:19 Page 10 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



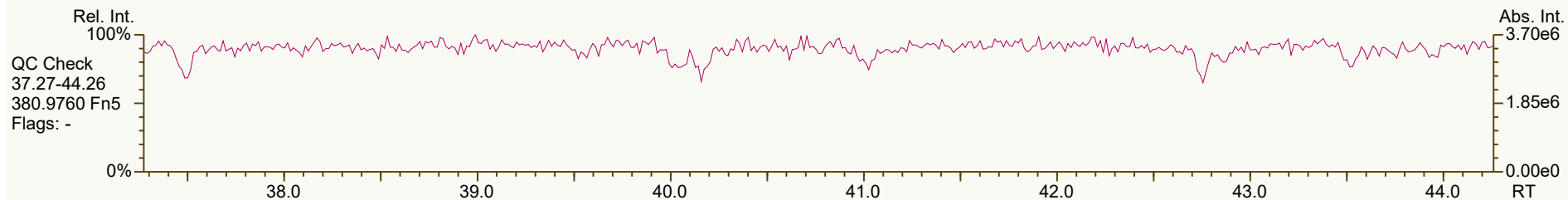
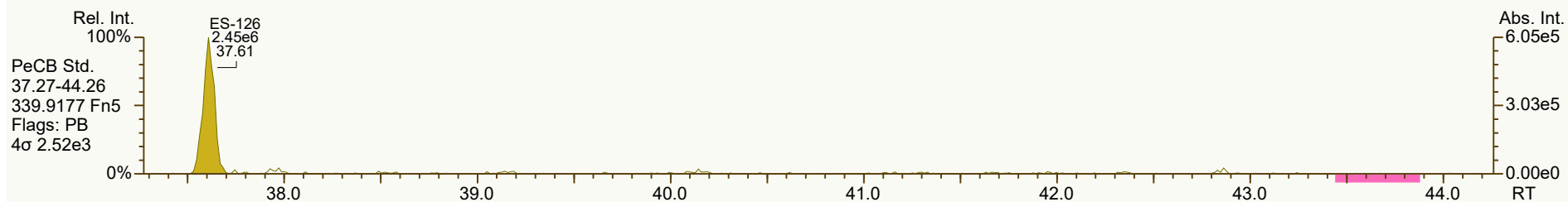
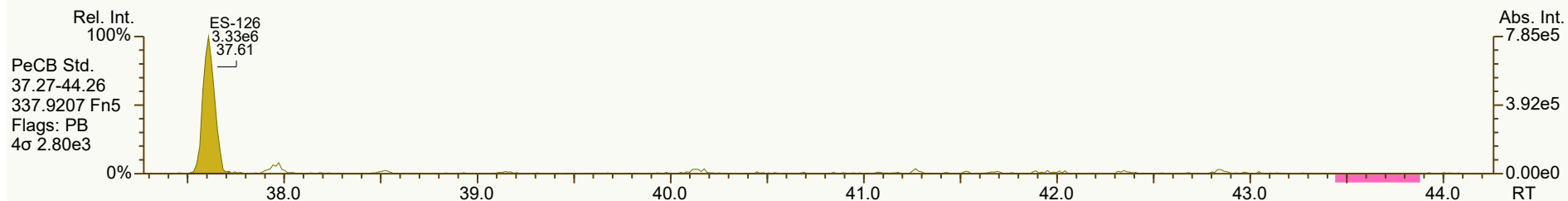
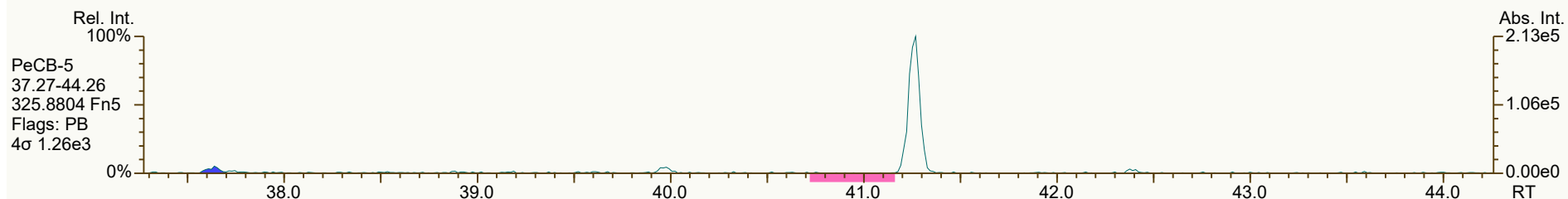
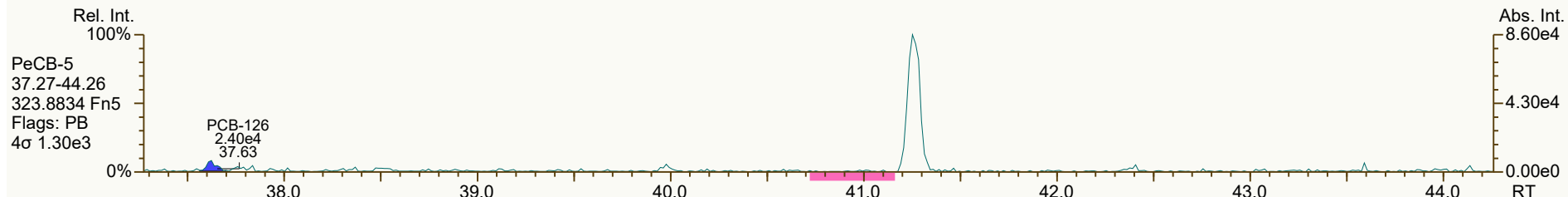
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8986, 6370 scc: 664-149

Peak annotation: Areas, Centroids
Revised: 27-Sep-2024 13:10 (PSW) Printed: 27-Sep-2024 13:19 Page 11 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



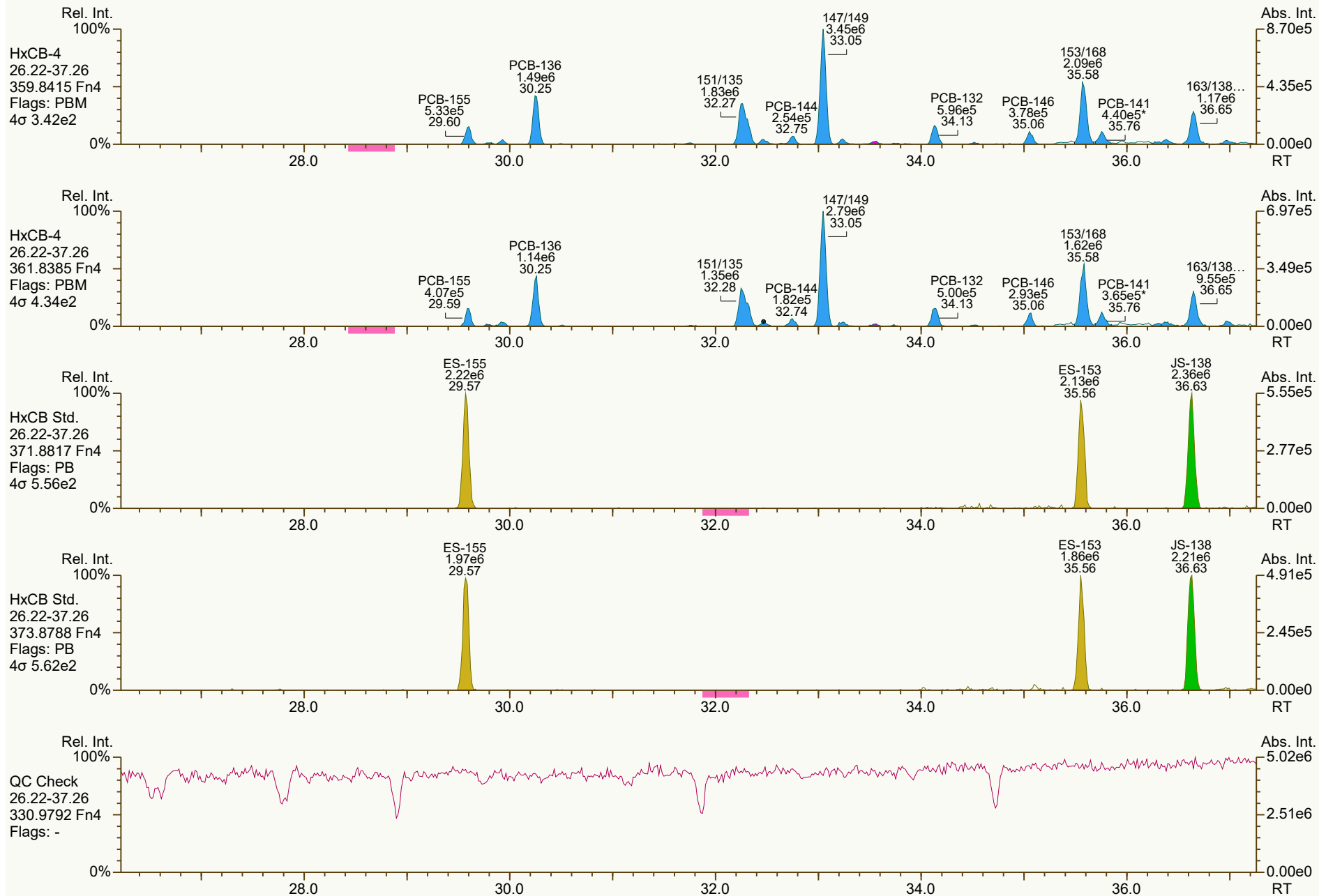
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 3316, 9958 scc: 664-149

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:19 Page 12 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



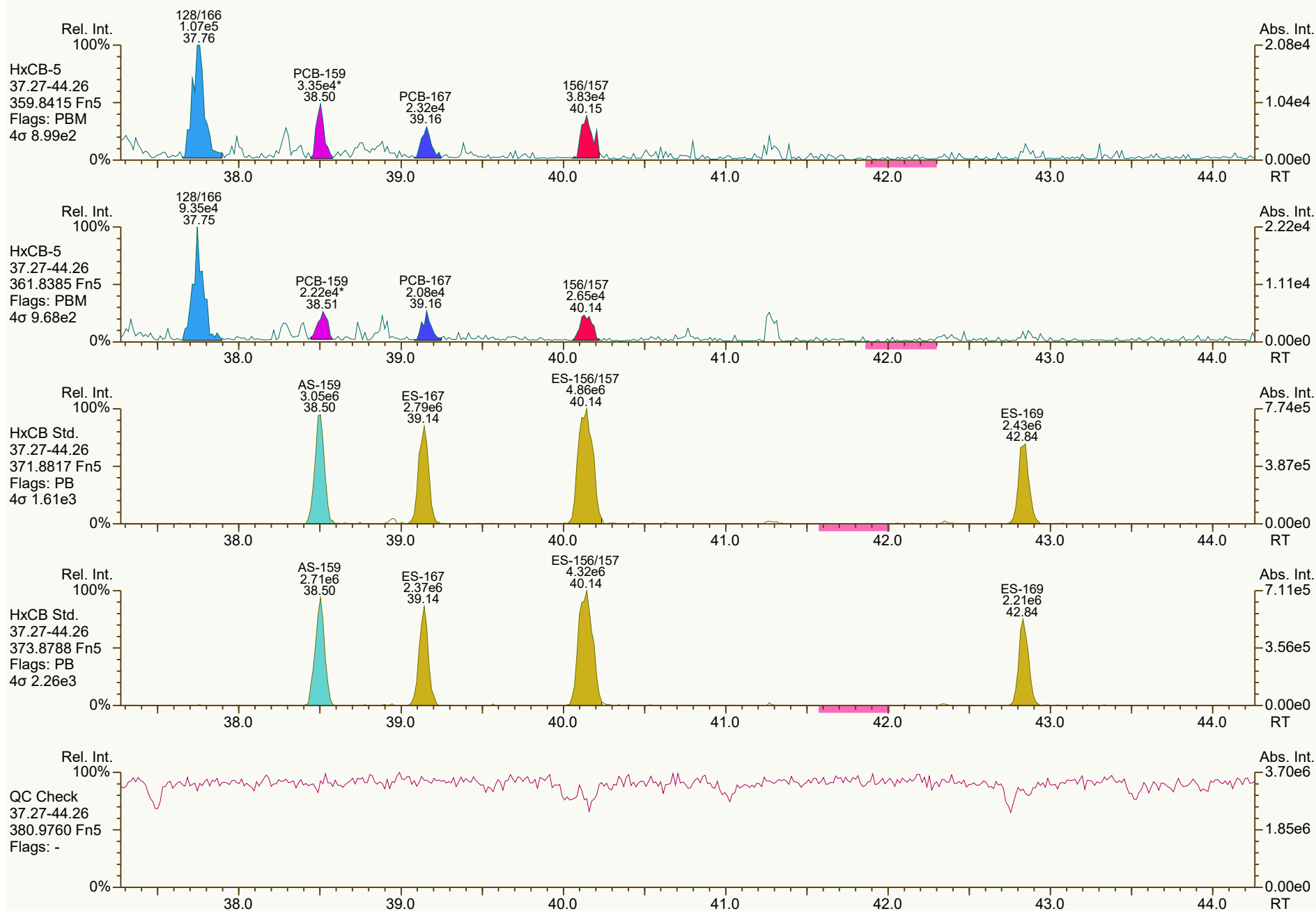
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2880, 3681 scc: 664-149

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:19 Page 13 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



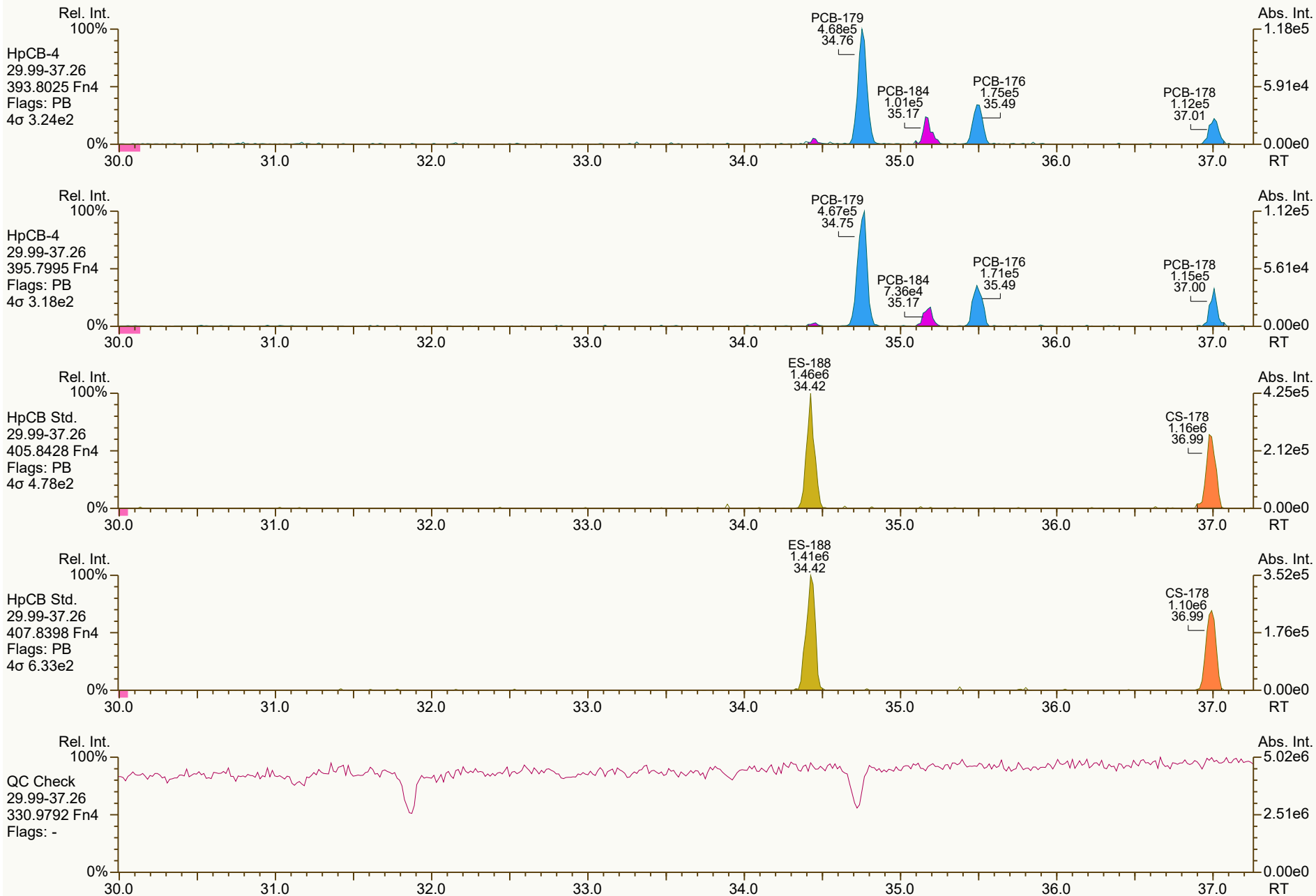
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6287, 4084 scc: 664-149

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:19 Page 14 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



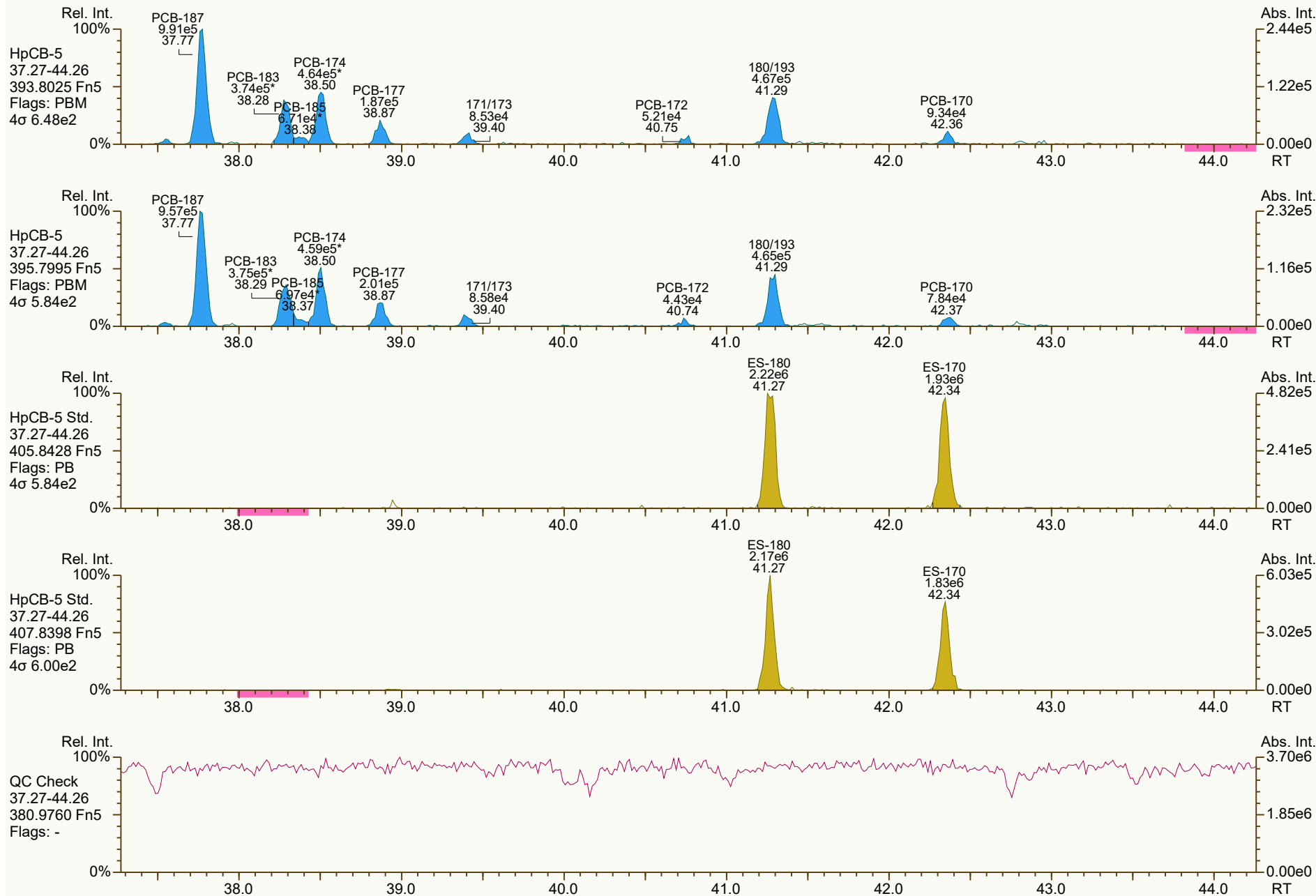
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 0776, 0454 scc: 664-149

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:20 (PSW) Printed: 27-Sep-2024 13:19 Page 15 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



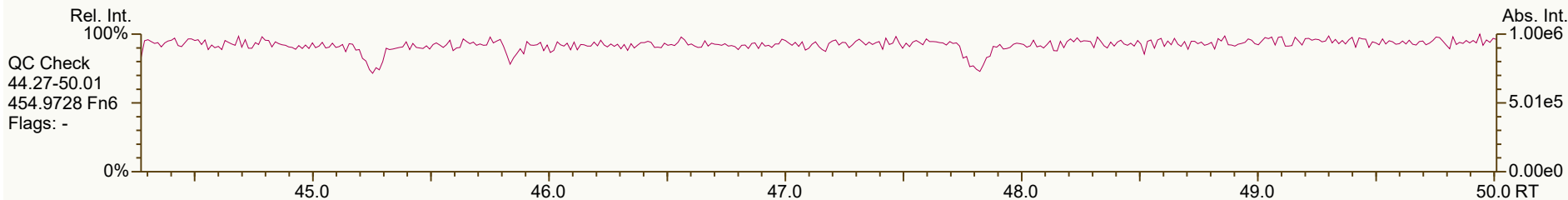
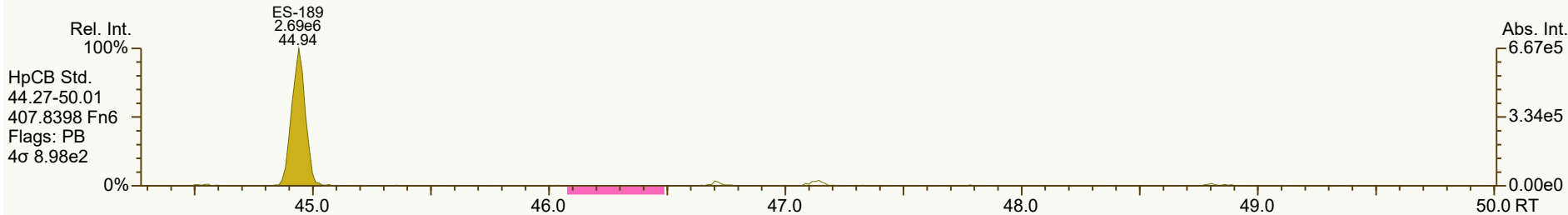
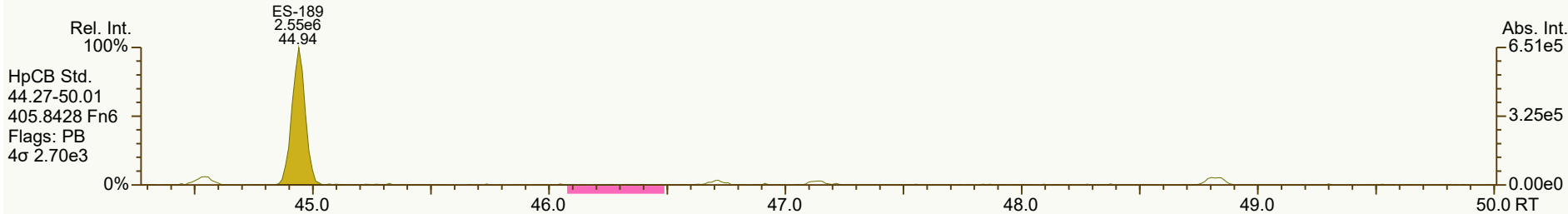
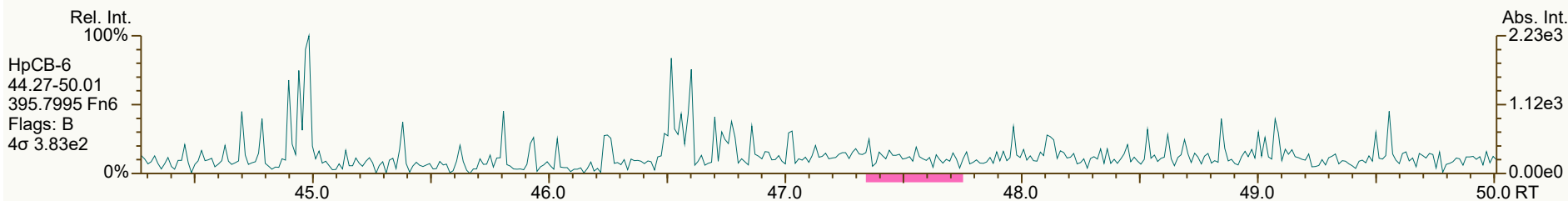
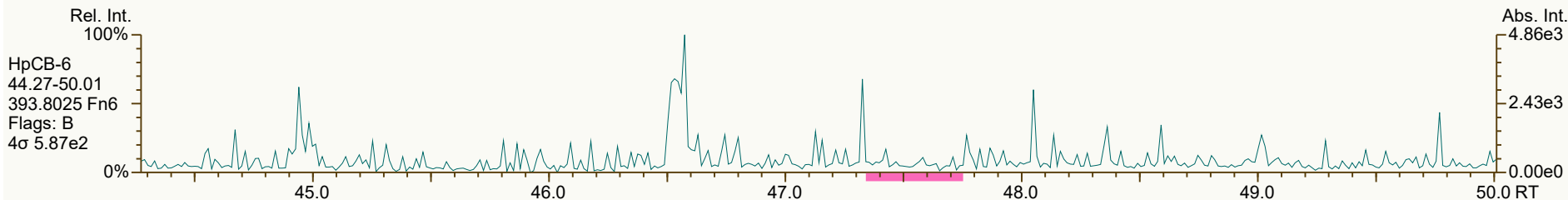
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:19 Page 16 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



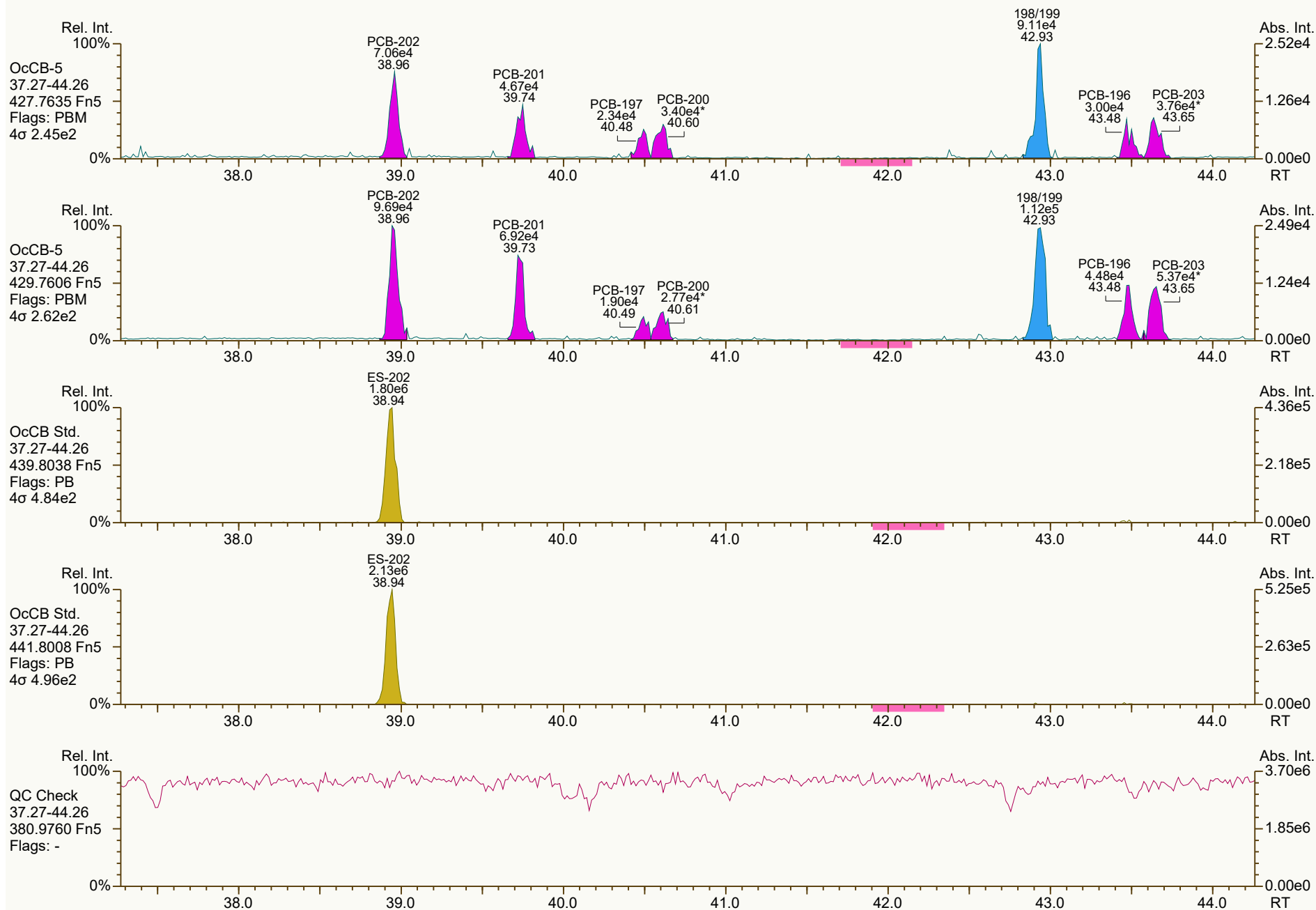
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7050, 4328 scc: 664-149

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:19 Page 17 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



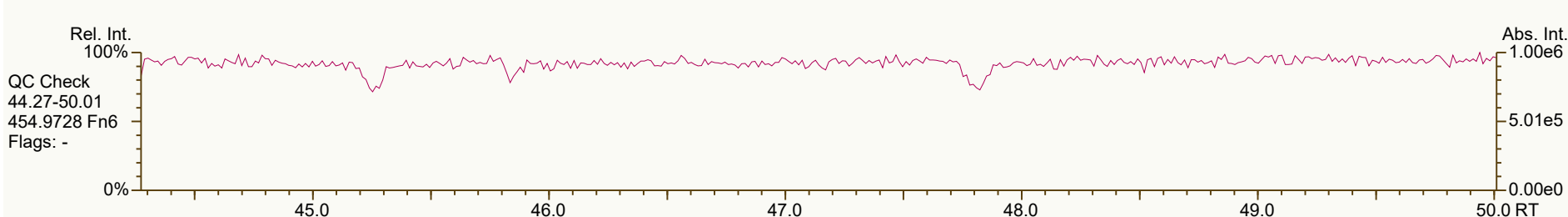
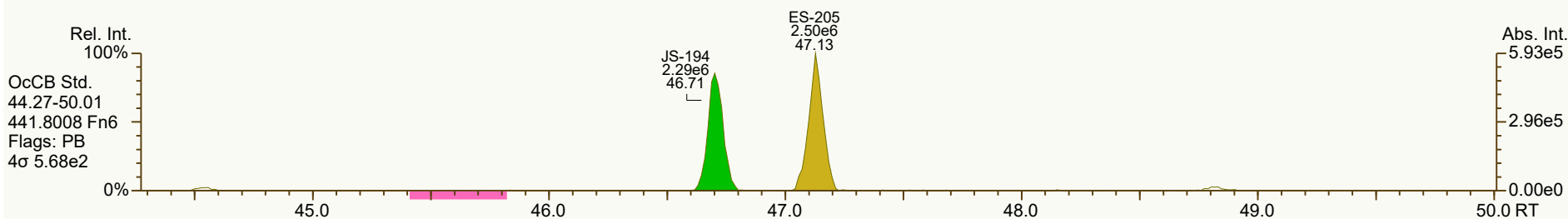
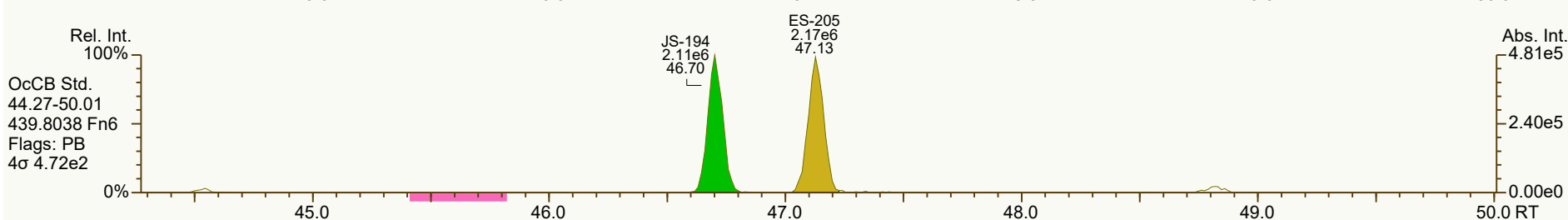
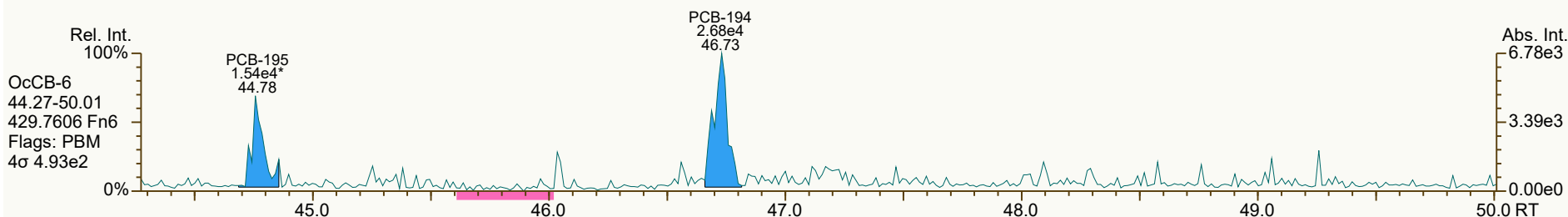
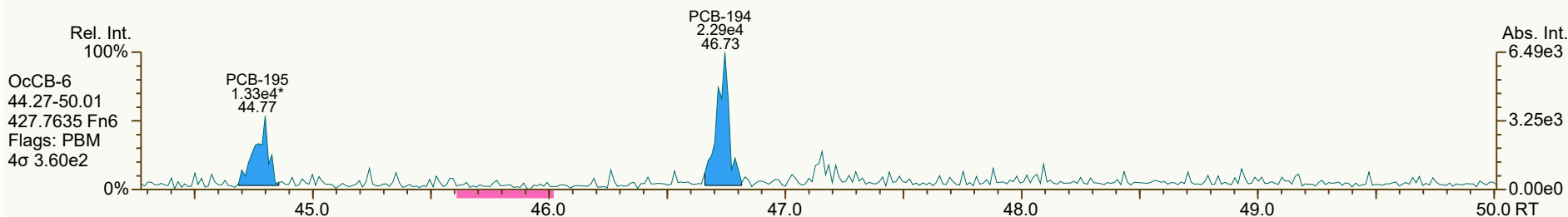
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 3906, 9470 scc: 664-149

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:19 Page 18 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



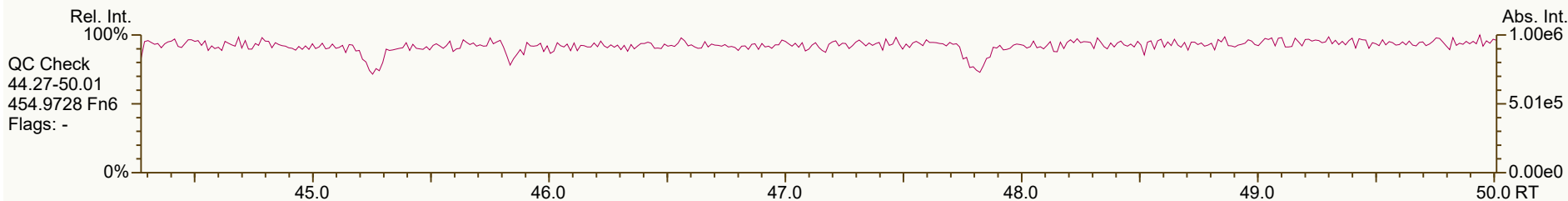
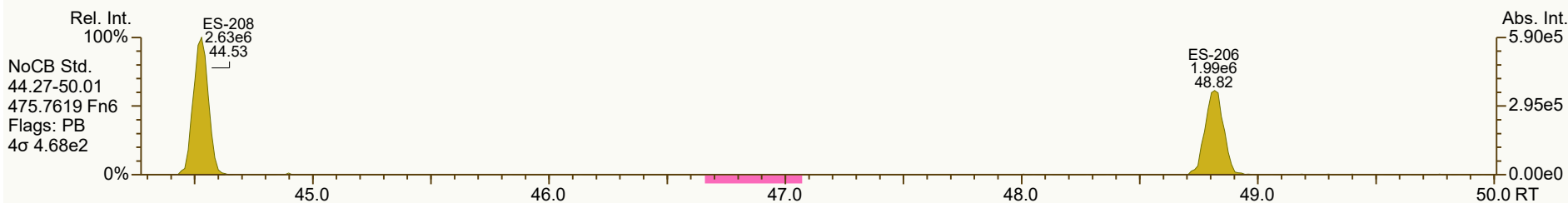
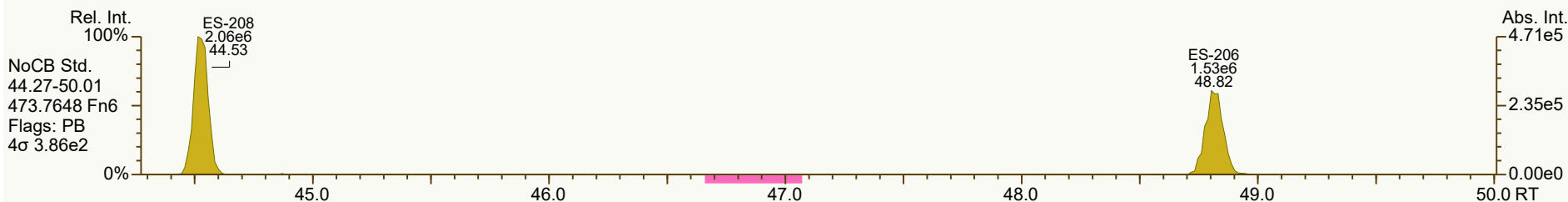
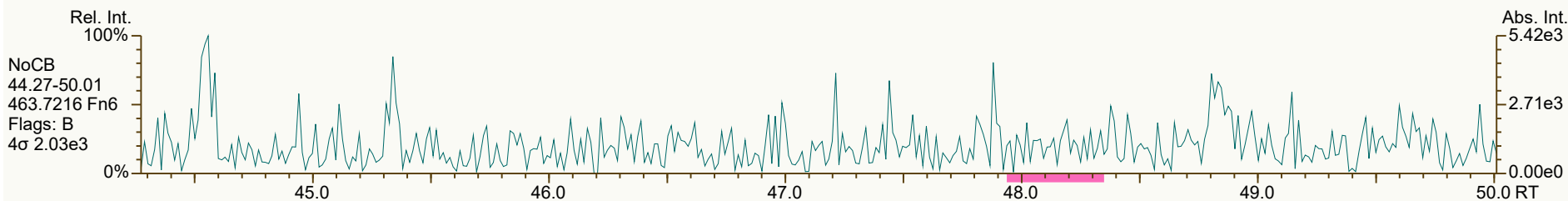
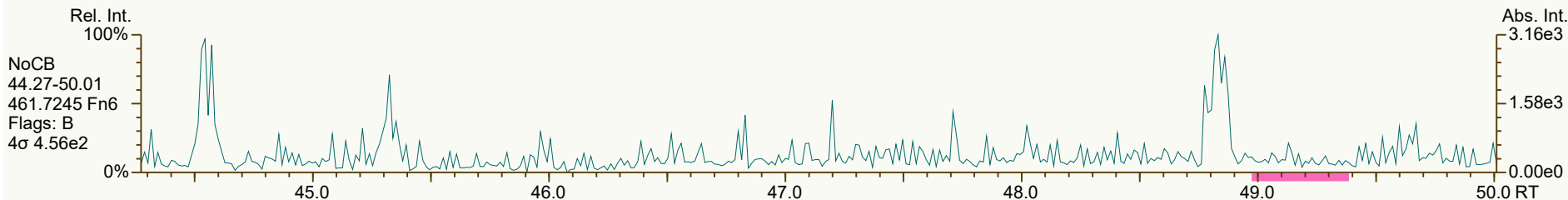
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7287, 0419 scc: 664-149

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:23 Printed: 27-Sep-2024 13:19 Page 19 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



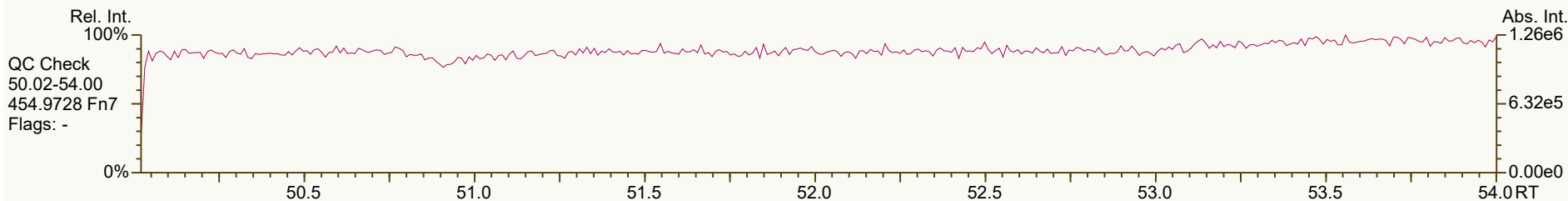
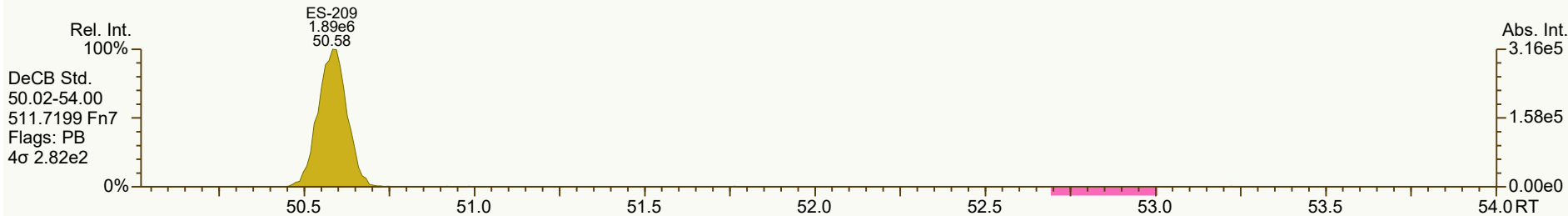
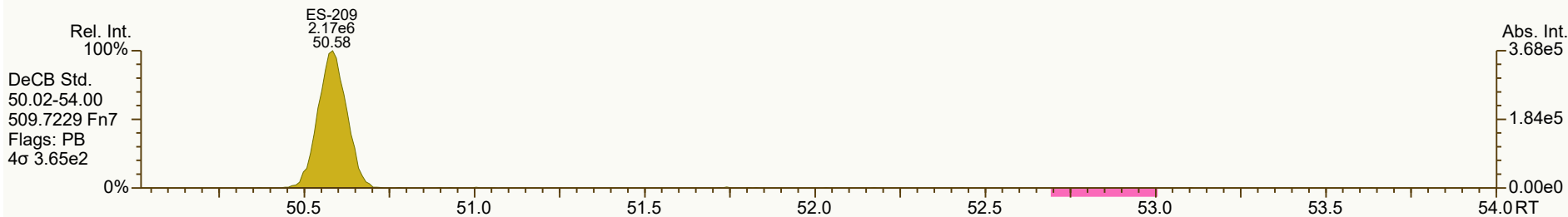
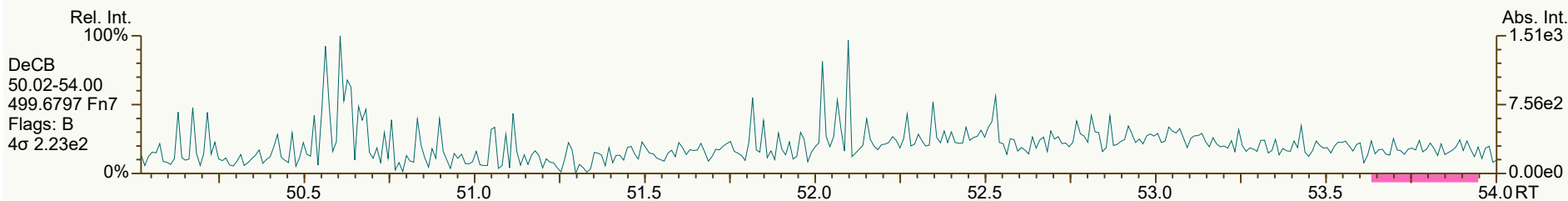
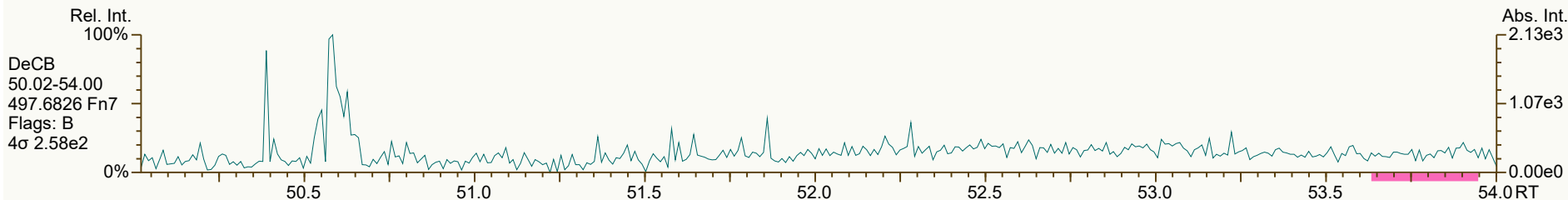
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4794, 0201 scc: 664-149

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:23 (PSW) Printed: 27-Sep-2024 13:19 Page 20 of 21

SGS ID: B9770_21382_PCB_005-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#2 Mill Off
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 74

Acq: 18-Sep-2024 16:12:47
User: RAB Datafile: 240918S06



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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7786, 5086 scc: 664-149

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:23 (PSW) Printed: 27-Sep-2024 13:19 Page 21 of 21

Lab ID: B9770_21382_PCB_006-RJ

ACQ: 18-Sep-2024 17:10:21 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#4 Mill On

UTP: 27-Sep-2024 13:14:32 PSW

J-level: 20 pg Split: 2

Checkcode: 130-858-FZM/C

Datafile: 240918S07

RPT: 27-Sep-2024 13:17 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------|-----------|----------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-77 33'44'-TeCB | 32.07 | | 1.0006 | 1.0006 | 0 | 2.09E+05 | 0.77 | 1.45 | 87.6 | 3.75E+03 | 15.1 |
| PCB-81 344'5-TeCB | ND | | 1.0005 | | | | | 1.46 | ND | 3.75E+03 | 14.9 |
| PCB-105 233'44'-PeCB | 35.03 | B | 1.0007 | 1.0007 | 0 | 1.12E+05 | 0.56 | 1.18 | 64.3 | 1.49E+03 | 9.15 |
| PCB-114 2344'5-PeCB | ND | | 1.0007 | | | | | 1.14 | ND | 1.49E+03 | 9.27 |
| PCB-118 23'44'5-PeCB | 34.02 | B | 1.0007 | 1.0007 | 0 | 2.81E+05 | 0.62 | 1.18 | 152 | 1.49E+03 | 8.44 |
| PCB-123 23'44'5'-PeCB | ND | | 1.0006 | | | | | 1.19 | ND | 1.49E+03 | 9.3 |
| PCB-126 33'44'5-PeCB | 37.64 | J B EMPC | 1.0005 | 1.0009 | +0.9 | 2.49E+04 | 0.47 | 1.35 | 11.7 | 1.46E+03 | 7.38 |
| PCB-156/157 ...-HxCB | 40.14 | J B C | 1.0005 | 1.0003 | -0.5 | 4.25E+04 | 1.20 | 1.23 | 27.6 | 1.33E+03 | 12.5 |
| PCB-167 23'44'55'-HxCB | 39.16 | J B EMPC | 1.0005 | 1.0005 | 0 | 2.21E+04 | 0.92 | 1.22 | 11.7 | 1.33E+03 | 7.04 |
| PCB-169 33'44'55'-HxCB | ND | | 1.0005 | | | | | 1.23 | ND | 1.33E+03 | 12.8 |
| PCB-189 233'44'55'-HpCB | 44.96 | J EMPC | 1.0004 | 1.0004 | 0 | 1.32E+04 | 1.54 | 1.31 | 5.98 | 1.08E+03 | 5.25 |
| PCB-209 DeCB | 50.62 | EMPC | 1.0005 | 1.0004 | -0.3 | 3.66E+04 | 0.80 | 1.08 | 26.2 | 4.69E+02 | 4.87 |
| | | | | | | | | | | 20% | 145% |
| ES PCB-1 | 11.48 | V | 0.7229 | 0.7223 | -0.4 | 1.52E+06 | 3.94 | 1.09 | 15.4 % | 5% | 145% |
| ES PCB-3 | 13.74 | | 0.8630 | 0.8645 | +1.2 | 4.26E+06 | 2.51 | 1.06 | 44.3 % | 5% | 145% |
| ES PCB-4 | 14.14 | | 0.8788 | 0.8900 | +9.5 | 1.27E+06 | 1.57 | 0.52 | 27.1 % | 5% | 145% |
| ES PCB-15 | 19.52 | | 1.2319 | 1.2288 | -3.6 | 6.84E+06 | 1.53 | 1.11 | 67.9 % | 5% | 145% |
| ES PCB-19 | 16.97 | | 1.0691 | 1.0682 | -0.9 | 3.34E+06 | 1.10 | 0.54 | 68.4 % | 5% | 145% |
| ES PCB-37 | 25.76 | | 1.0809 | 1.0808 | -0.2 | 6.61E+06 | 1.01 | 1.71 | 48.8 % | 5% | 145% |
| ES PCB-54 | 19.81 | | 0.8306 | 0.8311 | +0.6 | 3.43E+06 | 0.74 | 0.78 | 55.7 % | 5% | 145% |
| ES PCB-77 | 32.05 | | 1.3442 | 1.3447 | +1.0 | 6.56E+06 | 0.71 | 1.53 | 54.2 % | 10% | 145% |
| ES PCB-81 | 31.57 | | 1.3240 | 1.3244 | +0.8 | 7.09E+06 | 0.73 | 1.55 | 57.6 % | 10% | 145% |
| ES PCB-104 | 24.67 | | 0.8294 | 0.8291 | -0.4 | 3.86E+06 | 1.45 | 0.74 | 77.8 % | 10% | 145% |
| ES PCB-105 | 35.01 | | 1.1761 | 1.1764 | +0.6 | 5.90E+06 | 1.53 | 1.31 | 67.6 % | 10% | 145% |
| ES PCB-114 | 34.45 | | 1.1575 | 1.1577 | +0.4 | 6.05E+06 | 1.48 | 1.34 | 67.5 % | 10% | 145% |
| ES PCB-118 | 33.99 | | 1.1420 | 1.1422 | +0.4 | 6.25E+06 | 1.53 | 1.35 | 69.3 % | 10% | 145% |
| ES PCB-123 | 33.71 | | 1.1327 | 1.1329 | +0.4 | 5.57E+06 | 1.32 | 1.29 | 64.7 % | 10% | 145% |
| ES PCB-126 | 37.61 | | 1.2635 | 1.2638 | +0.7 | 6.30E+06 | 1.45 | 1.59 | 59.2 % | 10% | 145% |
| ES PCB-153 | 35.55 | | 0.9707 | 0.9708 | +0.2 | 4.37E+06 | 1.03 | 1.10 | 67.9 % | 10% | 145% |
| ES PCB-155 | 29.56 | | 0.8072 | 0.8070 | -0.4 | 5.02E+06 | 1.20 | 1.38 | 62.4 % | 10% | 145% |
| ES PCB-156/157 | 40.12 | C | 1.0958 | 1.0956 | -0.5 | 1.00E+07 | 1.10 | 1.62 | 52.9 % | 10% | 145% |
| ES PCB-167 | 39.14 | | 1.0687 | 1.0687 | 0 | 6.19E+06 | 1.16 | 1.70 | 62.3 % | 10% | 145% |
| ES PCB-169 | 42.85 | | 1.1697 | 1.1700 | +0.8 | 3.35E+06 | 1.04 | 1.55 | 36.9 % | 10% | 145% |
| ES PCB-170 | 42.35 | | 0.9066 | 0.9064 | -0.5 | 4.66E+06 | 0.99 | 1.06 | 76.5 % | 10% | 145% |
| ES PCB-180 | 41.27 | | 0.8835 | 0.8834 | -0.2 | 5.40E+06 | 0.99 | 1.30 | 72 % | 10% | 145% |
| ES PCB-188 | 34.42 | | 0.9398 | 0.9397 | -0.2 | 3.46E+06 | 0.98 | 0.63 | 94.6 % | 10% | 145% |
| ES PCB-189 | 44.95 | | 0.9621 | 0.9620 | -0.3 | 6.76E+06 | 0.95 | 1.71 | 68.6 % | 10% | 145% |
| ES PCB-202 | 38.94 | | 1.0632 | 1.0632 | 0 | 4.63E+06 | 0.93 | 0.96 | 82.7 % | 10% | 145% |
| ES PCB-205 | 47.14 | | 1.0091 | 1.0091 | 0 | 5.66E+06 | 0.89 | 1.23 | 79.5 % | 10% | 145% |
| ES PCB-206 | 48.83 | | 1.0453 | 1.0452 | -0.3 | 4.33E+06 | 0.77 | 0.84 | 89.4 % | 10% | 145% |

Lab ID: B9770_21382_PCB_006-RJ

ACQ: 18-Sep-2024 17:10:21 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#4 Mill On

UTP: 27-Sep-2024 13:14:32 PSW

J-level: 20 pg Split: 2

Checkcode: 130-858-FZM/C

Datafile: 240918S07

RPT: 27-Sep-2024 13:17 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------|------------------|----|-------------------|-------------------|-----------------|---------------------|-----------------|-----------------|-------------------|----------------------|--------------------|
| | | | | | | | | | | 20% | 145% |
| ES PCB-208 | 44.53 | | 0.9533 | 0.9532 | -0.3 | 5.61E+06 | 0.82 | 1.25 | 77.7 % | 10% | 145% |
| ES PCB-209 | 50.60 | | 1.0832 | 1.0831 | -0.3 | 5.19E+06 | 1.16 | 0.94 | 95.6 % | 10% | 145% |
| | | | | | | | | | | 70% | 130% |
| SS PCB-28 | 22.23 | | 0.9327 | 0.9327 | 0 | 5.81E+06 | 1.06 | 1.01 | 86.8 % | 5% | 145% |
| SS PCB-111 | 32.03 | | 1.0762 | 1.0764 | +0.4 | 5.35E+06 | 1.44 | 0.97 | 99.1 % | 10% | 145% |
| SS PCB-178 | 36.98 | | 1.0098 | 1.0098 | 0 | 2.73E+06 | 1.03 | 0.74 | 107 % | 10% | 145% |
| ES PCB-20 | 22.23 | | 0.9327 | 0.9327 | 0 | 5.81E+06 | 1.06 | 1.73 | 42.4 % | 5% | 145% |
| ES PCB-111 | 32.03 | | 1.0762 | 1.0764 | +0.4 | 5.35E+06 | 1.44 | 1.25 | 64.1 % | 10% | 145% |
| ES PCB-178 | 36.98 | | 1.0098 | 1.0098 | 0 | 2.73E+06 | 1.03 | 0.46 | 101 % | 10% | 145% |
| | | | | | | | | | | | |
| JS PCB-9 | 15.89 | | | | | 9.06E+06 | 1.51 | | | | |
| JS PCB-52 | 23.83 | | | | | 7.94E+06 | 0.79 | | | | |
| JS PCB-101 | 29.76 | | | | | 6.67E+06 | 1.51 | | | | |
| JS PCB-138 | 36.62 | | | | | 5.84E+06 | 1.16 | | | | |
| JS PCB-194 | 46.72 | | | | | 5.77E+06 | 0.88 | | | | |
| Totals | | | | | | NON-EMPC | EMPC | DL | | | |
| Mono-CB | | | | | | 32,100 | 32,100 | 90.6 | | | |
| Di-CB | | | | | | 5,800 | 6,200 | 24.7 | | | |
| Tri-CB | | | | | | 2,410 | 2,900 | 17.9 | | | |
| Tetra-CB | | | | | | 1,630 | 1,800 | 11.9 | | | |
| Penta-CB | | | | | | 1,930 | 2,340 | 8.18 | | | |
| Hexa-CB | | | | | | 3,030 | 3,340 | 9.11 | | | |
| Hepta-CB | | | | | | 1,020 | 1,290 | 8.28 | | | |
| Octa-CB | | | | | | 21.2 | 233 | 4.48 | | | |
| Nona-CB | | | | | | 36.9 | 36.9 | 23 | | | |

Lab ID: B9770_21382_PCB_006-RJ

ACQ: 18-Sep-2024 17:10:21 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#4 Mill On

UTP: 27-Sep-2024 13:14:32 PSW

J-level: 20 pg Split: 2

Checkcode: 130-858-FZM/C

Datafile: 240918S07

RPT: 27-Sep-2024 13:17 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|--------------|----------|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-1 2-MoCB | 11.49 | | 1.0012 | 1.0015 | +0.2 | 7.44E+06 | 3.01 | 1.47 | 13,300 | 6.02E+03 | 135 |
| PCB-2 3-MoCB | 13.57 | | 0.9878 | 0.9877 | -0.1 | 1.67E+07 | 3.00 | 1.28 | 12,300 | 6.02E+03 | 53.1 |
| PCB-3 4-MoCB | 13.75 | | 1.0010 | 1.0011 | +0.1 | 1.02E+07 | 2.94 | 1.45 | 6,600 | 6.02E+03 | 46.6 |
| PCB-4 22'-DiCB | 14.15 | B EMPC | 1.0012 | 1.0005 | -0.6 | 9.64E+04 | 1.22 | 1.30 | 234 | 3.25E+03 | 31.9 |
| PCB-10 26-DiCB | 14.24 | EMPC | 1.0132 | 1.0071 | -5.2 | 8.17E+04 | 0.93 | 1.60 | 160 | 3.25E+03 | 25.8 |
| PCB-9 25-DiCB | 15.91 | | 1.0010 | 1.0011 | +0.1 | 2.34E+05 | 1.74 | 1.08 | 126 | 4.51E+03 | 21.1 |
| PCB-7 24-DiCB | 16.05 | | 1.0110 | 1.0100 | -1.0 | 3.01E+05 | 1.70 | 0.96 | 183 | 4.51E+03 | 23.8 |
| PCB-6 23'-DiCB | 16.31 | | 1.0257 | 1.0268 | +1.1 | 4.87E+05 | 1.50 | 1.12 | 254 | 4.51E+03 | 20.4 |
| PCB-5 23-DiCB | 16.59 | | 1.0444 | 1.0442 | -0.2 | 5.00E+05 | 1.40 | 0.93 | 313 | 4.51E+03 | 24.5 |
| PCB-8 24'-DiCB | 16.70 | B | 1.0517 | 1.0511 | -0.6 | 6.57E+05 | 1.58 | 1.16 | 330 | 4.51E+03 | 19.6 |
| PCB-14 35-DiCB | 18.19 | | 0.9312 | 0.9318 | +0.7 | 5.24E+05 | 1.40 | 0.97 | 317 | 4.51E+03 | 23.7 |
| PCB-11 33'-DiCB | 18.97 | B | 0.9713 | 0.9716 | +0.3 | 4.63E+06 | 1.44 | 1.06 | 2,560 | 4.51E+03 | 21.6 |
| PCB-13/12 34'/34-DiCB | 19.26 | C | 0.9860 | 0.9866 | +0.7 | 2.38E+06 | 1.42 | 0.94 | 1,480 | 4.51E+03 | 24.3 |
| PCB-15 44'-DiCB | 19.55 | | 1.0008 | 1.0011 | +0.4 | 5.42E+05 | 1.57 | 1.31 | 242 | 4.51E+03 | 17.4 |
| PCB-19 22'6-TrCB | 16.99 | | 1.0010 | 1.0012 | +0.2 | 4.18E+04 | 1.00 | 1.16 | 43 | 2.61E+03 | 20.8 |
| PCB-30/18 246/22'5-TrCB | 18.70 | B C | 1.1015 | 1.1020 | +0.6 | 2.66E+05 | 1.07 | 1.47 | 216 | 2.61E+03 | 16.5 |
| PCB-17 22'4-TrCB | 19.05 | B EMPC | 1.1254 | 1.1222 | -3.7 | 3.14E+05 | 0.83 | 1.04 | 360 | 2.61E+03 | 23.2 |
| PCB-27 23'6-TrCB | 19.27 | EMPC | 1.1371 | 1.1355 | -1.9 | 3.94E+04 | 0.85 | 1.44 | 32.8 | 2.61E+03 | 16.9 |
| PCB-24 236-TrCB | ND | | 1.1444 | | | | | 1.47 | ND | 2.61E+03 | 16.5 |
| PCB-16 22'3-TrCB | 19.50 | | 1.1508 | 1.1492 | -1.9 | 1.39E+05 | 1.10 | 1.01 | 165 | 2.61E+03 | 24.1 |
| PCB-32 24'6-TrCB | 19.96 | B | 1.1782 | 1.1761 | -2.5 | 1.33E+05 | 1.01 | 1.62 | 98.4 | 2.61E+03 | 15 |
| PCB-34 23'5'-TrCB | 21.08 | EMPC | 0.8181 | 0.8183 | +0.3 | 5.21E+04 | 1.25 | 1.13 | 27.9 | 3.53E+03 | 19 |
| PCB-23 235-TrCB | 21.22 | EMPC | 0.8235 | 0.8238 | +0.4 | 6.16E+04 | 0.83 | 1.12 | 33.2 | 3.53E+03 | 19 |
| PCB-26/29 23'5/245-TrCB | 21.50 | B C | 0.8347 | 0.8348 | +0.1 | 2.48E+05 | 1.16 | 1.13 | 133 | 3.53E+03 | 18.9 |
| PCB-25 23'4-TrCB | 21.71 | | 0.8426 | 0.8427 | +0.1 | 1.23E+05 | 1.12 | 1.38 | 54 | 3.53E+03 | 15.5 |
| PCB-31 24'5-TrCB | 21.99 | B | 0.8534 | 0.8536 | +0.3 | 6.11E+05 | 1.02 | 1.32 | 280 | 3.53E+03 | 16.2 |
| PCB-28/20 244'/233'-TrCB | 22.26 | B C | 0.8642 | 0.8640 | -0.3 | 8.01E+05 | 1.11 | 1.21 | 400 | 3.53E+03 | 17.6 |
| PCB-21/33 234/23'4'-TrCB | 22.46 | C | 0.8710 | 0.8720 | +1.3 | 6.77E+05 | 1.09 | 1.18 | 346 | 3.53E+03 | 18.1 |
| PCB-22 234'-TrCB | 22.82 | | 0.8859 | 0.8860 | +0.1 | 3.16E+05 | 1.19 | 1.28 | 150 | 3.53E+03 | 16.8 |
| PCB-36 33'5-TrCB | 24.17 | | 0.9383 | 0.9384 | +0.1 | 1.43E+05 | 1.14 | 1.35 | 63.8 | 3.53E+03 | 15.8 |
| PCB-39 34'5-TrCB | 24.48 | B EMPC | 0.9508 | 0.9504 | -0.6 | 8.16E+04 | 0.81 | 1.23 | 40.2 | 3.53E+03 | 17.4 |
| PCB-38 345-TrCB | 25.01 | | 0.9709 | 0.9710 | +0.2 | 1.61E+05 | 0.97 | 1.24 | 78.7 | 3.53E+03 | 17.2 |
| PCB-35 33'4-TrCB | 25.42 | B | 0.9867 | 0.9868 | +0.2 | 3.82E+05 | 1.06 | 1.18 | 196 | 3.53E+03 | 18.1 |
| PCB-37 344'-TrCB | 25.78 | B | 1.0007 | 1.0007 | 0 | 4.42E+05 | 1.10 | 1.43 | 187 | 3.53E+03 | 14.9 |
| PCB-54 22'66'-TeCB | ND | | 1.0010 | | | | | 1.52 | ND | 1.08E+03 | 6.94 |
| PCB-50/53 22'46/22'56'-TeCB | 21.75 | J EMPC C | 0.9128 | 0.9125 | -0.4 | 3.30E+04 | 1.02 | 0.88 | 21.1 | 1.84E+03 | 12.1 |
| PCB-45 22'36'-TeCB | 22.35 | B EMPC | 0.9377 | 0.9378 | +0.1 | 4.00E+04 | 1.11 | 0.72 | 31.2 | 1.84E+03 | 14.7 |
| PCB-51 22'46'-TeCB | 22.42 | J B EMPC | 0.9403 | 0.9406 | +0.4 | 2.61E+04 | 0.93 | 0.92 | 16 | 1.84E+03 | 11.6 |
| PCB-46 22'36'-TeCB | 22.64 | J | 0.9496 | 0.9499 | +0.4 | 1.64E+04 | 0.89 | 0.71 | 12.9 | 1.84E+03 | 15 |
| PCB-52 22'55'-TeCB | 23.86 | B | 1.0010 | 1.0011 | +0.1 | 4.78E+05 | 0.77 | 1.00 | 270 | 1.84E+03 | 10.7 |
| PCB-73 23'5'6-TeCB | ND | | 1.0061 | | | | | 1.23 | ND | 1.84E+03 | 8.71 |

Lab ID: B9770_21382_PCB_006-RJ

ACQ: 18-Sep-2024 17:10:21 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#4 Mill On

UTP: 27-Sep-2024 13:14:32 PSW

J-level: 20 pg Split: 2

Checkcode: 130-858-FZM/C

Datafile: 240918S07

RPT: 27-Sep-2024 13:17 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|---------------------------------|-----------|----------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-43 22'35'-TeCB | ND | | 1.0099 | | | | | 0.85 | ND | 1.84E+03 | 12.5 |
| PCB-69/49 23'46/22'45'-TeCB | 24.28 | B C | 1.0177 | 1.0189 | +1.7 | 1.96E+05 | 0.77 | 1.01 | 109 | 1.84E+03 | 10.6 |
| PCB-48 22'45'-TeCB | 24.54 | | 1.0295 | 1.0295 | 0 | 6.90E+04 | 0.76 | 0.86 | 45.2 | 1.84E+03 | 12.4 |
| PCB-44/47/65 ...-TeCB | 24.75 | B C | 1.0386 | 1.0385 | -0.1 | 4.03E+05 | 0.72 | 0.96 | 236 | 1.84E+03 | 11.1 |
| PCB-59/62/75 ...-TeCB | 25.02 | J C | 1.0499 | 1.0497 | -0.3 | 6.06E+04 | 0.76 | 1.11 | 30.9 | 1.84E+03 | 9.63 |
| PCB-42 22'34'-TeCB | 25.21 | | 1.0575 | 1.0576 | +0.2 | 7.83E+04 | 0.75 | 0.77 | 57.4 | 1.84E+03 | 13.9 |
| PCB-41 22'34'-TeCB | 25.54 | | 1.0713 | 1.0715 | +0.3 | 3.21E+04 | 0.66 | 0.67 | 27 | 1.84E+03 | 15.9 |
| PCB-71/40 23'4'6/22'33'-TeCB | 25.64 | B EMPC C | 1.0755 | 1.0756 | +0.2 | 1.43E+05 | 0.93 | 0.95 | 85 | 1.84E+03 | 11.3 |
| PCB-64 234'6'-TeCB | 25.82 | B | 1.0836 | 1.0834 | -0.3 | 1.48E+05 | 0.75 | 1.15 | 73 | 1.84E+03 | 9.3 |
| PCB-72 23'55'-TeCB | ND | | 0.8404 | | | | | 1.21 | ND | 3.75E+03 | 17.9 |
| PCB-68 23'45'-TeCB | 26.77 | J EMPC | 0.8483 | 0.8481 | -0.3 | 3.09E+04 | 0.63 | 1.16 | 15 | 3.75E+03 | 18.8 |
| PCB-57 233'5'-TeCB | ND | | 0.8601 | | | | | 1.17 | ND | 3.75E+03 | 18.7 |
| PCB-58 233'5'-TeCB | 27.37 | J EMPC | 0.8668 | 0.8671 | +0.5 | 7.70E+03 | 1.73 | 1.32 | 3.28 | 3.75E+03 | 16.4 |
| PCB-67 23'45'-TeCB | ND | | 0.8713 | | | | | 1.34 | ND | 3.75E+03 | 16.3 |
| PCB-63 234'5'-TeCB | ND | | 0.8785 | | | | | 1.13 | ND | 3.75E+03 | 19.3 |
| PCB-61/70/74/76 ...-TeCB | 28.03 | B C | 0.8878 | 0.8881 | +0.5 | 7.50E+05 | 0.74 | 1.18 | 358 | 3.75E+03 | 18.4 |
| PCB-66 23'44'-TeCB | 28.30 | B | 0.8967 | 0.8967 | 0 | 3.61E+05 | 0.73 | 1.27 | 161 | 3.75E+03 | 17.2 |
| PCB-55 233'4'-TeCB | ND | | 0.9016 | | | | | 1.26 | ND | 3.75E+03 | 17.2 |
| PCB-56 233'4'-TeCB | 28.89 | | 0.9155 | 0.9154 | -0.2 | 1.71E+05 | 0.81 | 1.23 | 78.6 | 3.75E+03 | 17.7 |
| PCB-60 2344'-TeCB | 29.09 | | 0.9214 | 0.9214 | 0 | 1.25E+05 | 0.76 | 1.05 | 67.4 | 3.75E+03 | 20.7 |
| PCB-80 33'55'-TeCB | ND | | 0.9309 | | | | | 1.24 | ND | 3.75E+03 | 17.5 |
| PCB-79 33'45'-TeCB | 30.72 | J | 0.9732 | 0.9732 | 0 | 3.84E+04 | 0.82 | 1.40 | 15.4 | 3.75E+03 | 15.5 |
| PCB-78 33'45'-TeCB | ND | | 0.9884 | | | | | 1.16 | ND | 3.75E+03 | 18.7 |
| PCB-104 22'466'-PeCB | ND | | 1.0009 | | | | | 1.46 | ND | 8.36E+02 | 5.55 |
| PCB-96 22'366'-PeCB | ND | | 1.0147 | | | | | 1.21 | ND | 8.36E+02 | 6.72 |
| PCB-103 22'45'6'-PeCB | ND | | 0.8968 | | | | | 0.76 | ND | 1.49E+03 | 14.5 |
| PCB-94 22'356'-PeCB | ND | | 0.9036 | | | | | 0.63 | ND | 1.49E+03 | 17.5 |
| PCB-95 22'35'6'-PeCB | 27.29 | B | 0.9167 | 0.9169 | +0.3 | 4.88E+05 | 0.65 | 0.72 | 485 | 1.49E+03 | 15.3 |
| PCB-100/93 22'44'6/22'356'-PeCB | ND | C | 0.9229 | | | | | 0.68 | ND | 1.49E+03 | 16.3 |
| PCB-102 22'456'-PeCB | 27.61 | J EMPC | 0.9269 | 0.9279 | +1.7 | 1.64E+04 | 1.93 | 0.82 | 14.4 | 1.49E+03 | 13.5 |
| PCB-98 22'34'6'-PeCB | ND | | 0.9292 | | | | | 0.80 | ND | 1.49E+03 | 13.9 |
| PCB-88 22'346'-PeCB | ND | | 0.9390 | | | | | 0.62 | ND | 1.49E+03 | 17.7 |
| PCB-91 22'34'6'-PeCB | 28.02 | | 0.9416 | 0.9417 | +0.2 | 4.28E+04 | 0.56 | 0.80 | 38.6 | 1.49E+03 | 13.9 |
| PCB-84 22'33'6'-PeCB | 28.23 | B | 0.9486 | 0.9487 | +0.2 | 8.50E+04 | 0.57 | 0.62 | 99.2 | 1.49E+03 | 18 |
| PCB-89 22'346'-PeCB | ND | | 0.9623 | | | | | 0.74 | ND | 1.49E+03 | 14.9 |
| PCB-121 23'45'6'-PeCB | ND | | 0.9725 | | | | | 1.10 | ND | 1.49E+03 | 10.1 |
| PCB-92 22'355'-PeCB | 29.28 | B | 0.9839 | 0.9840 | +0.2 | 7.16E+04 | 0.53 | 0.70 | 73.4 | 1.49E+03 | 15.8 |
| PCB-113/90/101 ...-PeCB | 29.78 | B C | 0.9999 | 1.0007 | +1.4 | 6.82E+05 | 0.61 | 0.81 | 604 | 1.49E+03 | 13.6 |
| PCB-83 22'33'5'-PeCB | 30.21 | EMPC | 1.0148 | 1.0150 | +0.4 | 7.08E+04 | 0.51 | 0.59 | 85.5 | 1.49E+03 | 18.6 |
| PCB-99 22'44'5'-PeCB | 30.28 | B | 1.0174 | 1.0175 | +0.2 | 1.22E+05 | 0.60 | 0.95 | 91.9 | 1.49E+03 | 11.6 |
| PCB-112 233'56'-PeCB | ND | | 1.0210 | | | | | 1.18 | ND | 1.49E+03 | 9.35 |

Lab ID: B9770_21382_PCB_006-RJ

ACQ: 18-Sep-2024 17:10:21 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#4 Mill On

UTP: 27-Sep-2024 13:14:32 PSW

J-level: 20 pg Split: 2

Checkcode: 130-858-FZM/C

Datafile: 240918S07

RPT: 27-Sep-2024 13:17 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------------|-----------|----------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-109/119/86/97/125...-PeCB | 30.77 | B EMPC C | 1.0327 | 1.0340 | +2.4 | 2.91E+05 | 0.50 | 0.87 | 239 | 1.49E+03 | 12.7 |
| PCB-117 234'56-PeCB | ND | | 1.0504 | | | | | 0.96 | ND | 1.49E+03 | 11.6 |
| PCB-116/85 23456/22'344'-PeCB | 31.35 | EMPC C | 1.0533 | 1.0533 | 0 | 4.87E+04 | 0.50 | 0.83 | 42 | 1.49E+03 | 13.3 |
| PCB-110 233'4'6-PeCB | 31.48 | B | 1.0579 | 1.0580 | +0.2 | 4.94E+05 | 0.59 | 1.11 | 319 | 1.49E+03 | 9.95 |
| PCB-115 2344'6-PeCB | ND | | 1.0600 | | | | | 1.11 | ND | 1.49E+03 | 9.94 |
| PCB-82 22'33'4-PeCB | 31.78 | EMPC | 1.0675 | 1.0678 | +0.6 | 2.44E+04 | 0.89 | 0.73 | 24 | 1.49E+03 | 15.2 |
| PCB-111 233'55'-PeCB | ND | | 1.0770 | | | | | 1.02 | ND | 1.49E+03 | 10.9 |
| PCB-120 23'455'-PeCB | ND | | 1.0902 | | | | | 1.24 | ND | 1.49E+03 | 8.94 |
| PCB-108/124 ...-PeCB | ND | C | 0.9915 | | | | | 1.00 | ND | 1.49E+03 | 11.1 |
| PCB-107 233'4'5-PeCB | ND | | 0.9975 | | | | | 1.12 | ND | 1.49E+03 | 9.91 |
| PCB-106 233'45-PeCB | ND | | 1.0038 | | | | | 1.07 | ND | 1.49E+03 | 10.4 |
| PCB-122 233'4'5'-PeCB | ND | | 1.0096 | | | | | 0.84 | ND | 1.49E+03 | 12.7 |
| PCB-127 33'455'-PeCB | ND | | 1.0352 | | | | | 1.09 | ND | 1.49E+03 | 9.96 |
| PCB-155 22'44'66'-HxCB | ND | | 1.0007 | | | | | 1.36 | ND | 6.64E+02 | 4.15 |
| PCB-152 22'3566'-HxCB | ND | | 1.0075 | | | | | 1.22 | ND | 6.64E+02 | 4.63 |
| PCB-150 22'34'66'-HxCB | ND | | 1.0119 | | | | | 1.07 | ND | 6.64E+02 | 5.28 |
| PCB-136 22'33'66'-HxCB | 30.24 | | 1.0230 | 1.0232 | +0.4 | 2.34E+05 | 1.23 | 1.01 | 184 | 6.64E+02 | 5.55 |
| PCB-145 22'3466'-HxCB | ND | | 1.0313 | | | | | 1.16 | ND | 6.64E+02 | 4.85 |
| PCB-148 22'34'56'-HxCB | ND | | 1.0735 | | | | | 1.07 | ND | 6.64E+02 | 5.93 |
| PCB-151/135 ...-HxCB | 32.26 | C | 1.0919 | 1.0914 | -1.0 | 4.71E+05 | 1.33 | 1.06 | 409 | 6.64E+02 | 6.03 |
| PCB-154 22'44'56'-HxCB | ND | | 1.0979 | | | | | 1.15 | ND | 6.64E+02 | 5.52 |
| PCB-144 22'345'6-HxCB | 32.74 | B EMPC | 1.1074 | 1.1078 | +0.8 | 6.44E+04 | 1.55 | 1.06 | 55.8 | 6.64E+02 | 6.01 |
| PCB-147/149 ...-HxCB | 33.04 | C | 1.1177 | 1.1178 | +0.2 | 9.17E+05 | 1.38 | 1.12 | 752 | 6.64E+02 | 5.7 |
| PCB-134 22'33'56-HxCB | 33.21 | | 1.1238 | 1.1238 | 0 | 3.39E+04 | 1.19 | 0.85 | 36.6 | 6.64E+02 | 7.5 |
| PCB-143 22'3456'-HxCB | ND | | 1.1264 | | | | | 1.03 | ND | 6.64E+02 | 6.19 |
| PCB-139/140 ...-HxCB | ND | C | 1.1348 | | | | | 1.10 | ND | 6.64E+02 | 5.77 |
| PCB-131 22'33'46-HxCB | ND | | 1.1412 | | | | | 0.98 | ND | 6.64E+02 | 6.5 |
| PCB-142 22'3456-HxCB | ND | | 1.1457 | | | | | 0.97 | ND | 6.64E+02 | 6.58 |
| PCB-132 22'33'46'-HxCB | 34.13 | | 1.1544 | 1.1547 | +0.6 | 1.99E+05 | 1.25 | 1.00 | 182 | 6.64E+02 | 6.35 |
| PCB-133 22'33'55'-HxCB | ND | | 1.1672 | | | | | 1.10 | ND | 6.64E+02 | 5.81 |
| PCB-165 233'55'6-HxCB | ND | | 0.9512 | | | | | 1.29 | ND | 6.64E+02 | 4.93 |
| PCB-146 22'34'55'-HxCB | 35.05 | B | 0.9571 | 0.9570 | -0.2 | 1.08E+05 | 1.06 | 1.24 | 80.2 | 6.64E+02 | 5.14 |
| PCB-161 233'45'6-HxCB | ND | | 0.9601 | | | | | 1.49 | ND | 6.64E+02 | 4.27 |
| PCB-153/168 ...-HxCB | 35.58 | C | 0.9718 | 0.9714 | -0.9 | 1.05E+06 | 1.28 | 1.34 | 719 | 6.64E+02 | 4.76 |
| PCB-141 22'3455'-HxCB | 35.75 | EMPC | 0.9762 | 0.9763 | +0.2 | 2.10E+05 | 1.02 | 1.01 | 190 | 6.64E+02 | 6.29 |
| PCB-130 22'33'45'-HxCB | ND | | 0.9857 | | | | | 0.89 | ND | 6.64E+02 | 7.15 |
| PCB-137 22'344'5-HxCB | 36.26 | J EMPC | 0.9909 | 0.9900 | -2.0 | 1.70E+04 | 1.44 | 0.97 | 16 | 6.64E+02 | 6.54 |
| PCB-164 233'4'5'6-HxCB | 36.37 | | 0.9935 | 0.9931 | -0.9 | 7.68E+04 | 1.17 | 1.52 | 46.2 | 6.64E+02 | 4.18 |
| PCB-163/138/129 ...-HxCB | 36.65 | C | 1.0011 | 1.0007 | -0.9 | 6.49E+05 | 1.22 | 1.08 | 549 | 6.64E+02 | 5.87 |
| PCB-160 233'456-HxCB | ND | | 1.0045 | | | | | 1.26 | ND | 6.64E+02 | 5.05 |
| PCB-158 233'44'6-HxCB | 36.98 | B EMPC | 1.0096 | 1.0097 | +0.2 | 5.46E+04 | 1.61 | 1.45 | 34.5 | 6.64E+02 | 4.39 |

Lab ID: B9770_21382_PCB_006-RJ

ACQ: 18-Sep-2024 17:10:21 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#4 Mill On

UTP: 27-Sep-2024 13:14:32 PSW

J-level: 20 pg Split: 2

Checkcode: 130-858-FZM/C

Datafile: 240918S07

RPT: 27-Sep-2024 13:17 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

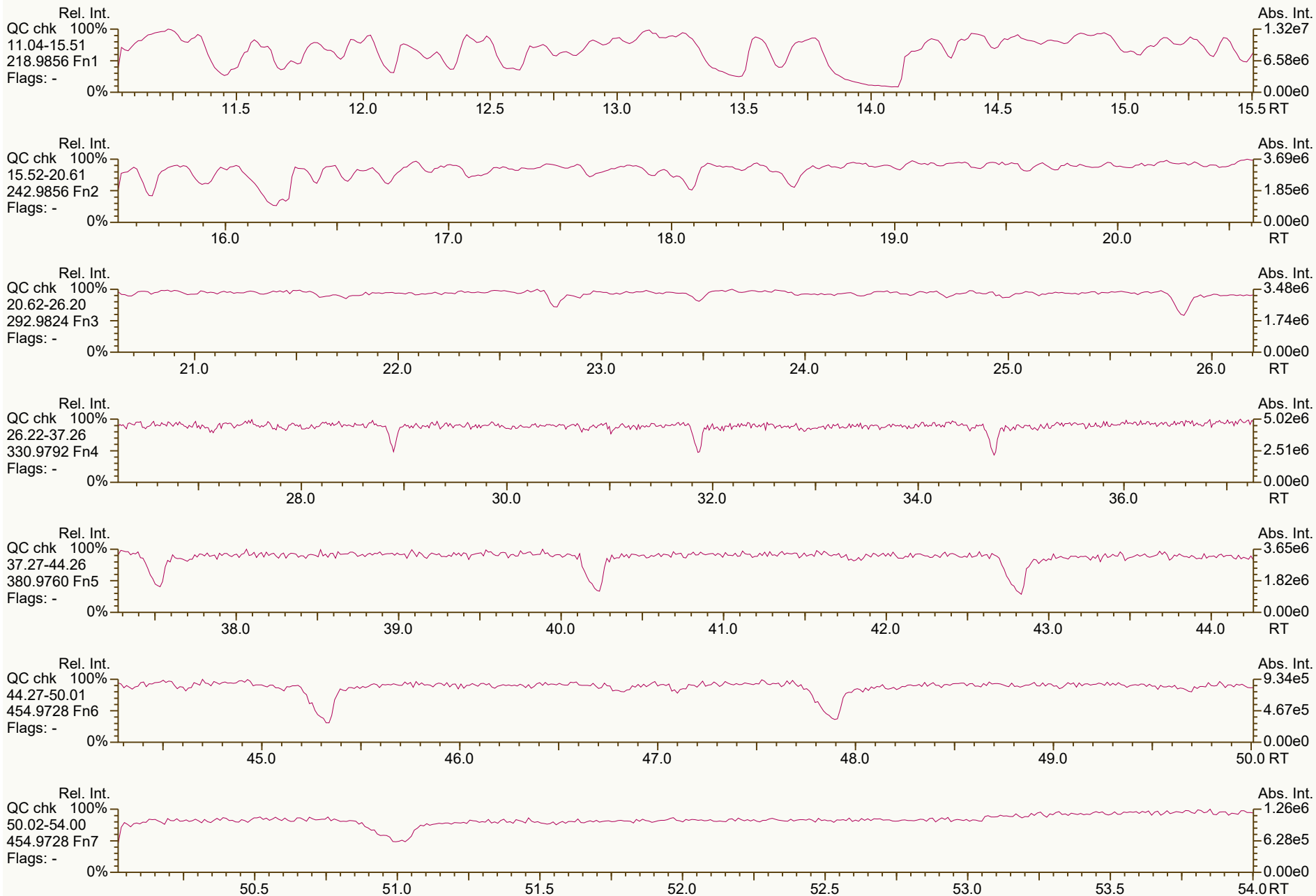
Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-------------------|----------|-------------------|-------------------|-----------------|---------------------|-----------------|-----------------|-------------------|----------------------|--------------------|
| PCB-128/166 ...-HxCB | 37.75 | C | 0.9635 | 0.9646 | +2.5 | 6.50E+04 | 1.12 | 0.90 | 46.8 | 1.33E+03 | 9.54 |
| PCB-159 233'455'-HxCB | ND | | 0.9840 | | | | | 1.19 | ND | 1.33E+03 | 7.2 |
| PCB-162 233'4'55'-HxCB | ND | | 0.9902 | | | | | 1.01 | ND | 1.33E+03 | 8.45 |
| PCB-188 22'34'566'-HpCB | ND | | 1.0006 | | | | | 1.55 | ND | 5.08E+02 | 3.95 |
| PCB-179 22'33'566'-HpCB | 34.75 | B EMPC | 1.0095 | 1.0097 | +0.4 | 1.06E+05 | 1.25 | 1.32 | 93.2 | 5.08E+02 | 4.63 |
| PCB-184 22'344'66'-HpCB | ND | | 1.0219 | | | | | 1.26 | ND | 5.08E+02 | 4.84 |
| PCB-176 22'33'466'-HpCB | 35.50 | EMPC | 1.0312 | 1.0315 | +0.6 | 6.06E+04 | 0.86 | 1.15 | 60.7 | 5.08E+02 | 5.3 |
| PCB-186 22'34566'-HpCB | ND | | 1.0427 | | | | | 1.37 | ND | 5.08E+02 | 4.45 |
| PCB-178 22'33'55'6'-HpCB | 37.01 | EMPC | 1.0752 | 1.0753 | +0.2 | 5.04E+04 | 0.84 | 0.92 | 63.1 | 5.08E+02 | 6.62 |
| PCB-175 22'33'45'6'-HpCB | ND | | 1.0908 | | | | | 0.99 | ND | 1.64E+03 | 12 |
| PCB-187 22'34'55'6'-HpCB | 37.77 | | 1.0974 | 1.0975 | +0.2 | 4.23E+05 | 0.95 | 1.22 | 256 | 1.64E+03 | 9.71 |
| PCB-182 22'344'56'-HpCB | ND | | 1.1024 | | | | | 1.18 | ND | 1.64E+03 | 10 |
| PCB-183 22'344'5'6'-HpCB | 38.28 | B | 1.1124 | 1.1123 | -0.2 | 2.00E+05 | 1.08 | 1.13 | 131 | 1.64E+03 | 10.5 |
| PCB-185 22'3455'6'-HpCB | 38.37 | | 1.1152 | 1.1149 | -0.7 | 4.24E+04 | 1.16 | 0.93 | 33.6 | 1.64E+03 | 12.7 |
| PCB-174 22'33'456'-HpCB | 38.50 | | 1.1187 | 1.1187 | 0 | 2.63E+05 | 1.08 | 1.03 | 188 | 1.64E+03 | 11.5 |
| PCB-177 22'33'45'6'-HpCB | 38.88 | | 1.1296 | 1.1296 | 0 | 1.05E+05 | 1.07 | 1.04 | 74.6 | 1.64E+03 | 11.4 |
| PCB-181 22'344'56'-HpCB | ND | | 1.1391 | | | | | 1.13 | ND | 1.64E+03 | 10.5 |
| PCB-171/173 ...-HpCB | 39.40 | J EMPC C | 1.1447 | 1.1448 | +0.2 | 3.43E+04 | 1.21 | 0.94 | 27 | 1.64E+03 | 12.6 |
| PCB-172 22'33'455'-HpCB | 40.74 | EMPC | 0.9065 | 0.9065 | 0 | 2.84E+04 | 1.33 | 1.00 | 21.1 | 1.64E+03 | 11.9 |
| PCB-192 233'455'6'-HpCB | ND | | 0.9118 | | | | | 1.43 | ND | 1.64E+03 | 8.28 |
| PCB-180/193 ...-HpCB | 41.29 | C | 0.9181 | 0.9187 | +1.5 | 4.04E+05 | 1.05 | 1.17 | 256 | 1.64E+03 | 10.2 |
| PCB-191 233'44'5'6'-HpCB | ND | | 0.9253 | | | | | 1.27 | ND | 1.64E+03 | 9.38 |
| PCB-170 22'33'44'5'-HpCB | 42.37 | B | 0.9427 | 0.9426 | -0.3 | 9.70E+04 | 0.92 | 1.09 | 76.4 | 1.64E+03 | 14 |
| PCB-190 233'44'56'-HpCB | ND | | 0.9525 | | | | | 1.50 | ND | 1.64E+03 | 10.1 |
| PCB-202 22'33'55'66'-OcCB | 38.96 | EMPC | 1.0005 | 1.0006 | +0.2 | 3.99E+04 | 0.72 | 1.32 | 26.1 | 5.72E+02 | 3.84 |
| PCB-201 22'33'45'66'-OcCB | 39.74 | J EMPC | 1.0204 | 1.0206 | +0.5 | 2.17E+04 | 0.64 | 1.00 | 18.8 | 5.72E+02 | 5.08 |
| PCB-204 22'344'566'-OcCB | ND | | 1.0349 | | | | | 1.13 | ND | 5.72E+02 | 4.49 |
| PCB-197 22'33'44'66'-OcCB | ND | | 1.0399 | | | | | 1.04 | ND | 5.72E+02 | 4.86 |
| PCB-200 22'33'4566'-OcCB | 40.61 | | 1.0428 | 1.0430 | +0.5 | 2.58E+04 | 0.79 | 1.05 | 21.2 | 5.72E+02 | 4.81 |
| PCB-198/199 ...-OcCB | 42.93 | EMPC C | 1.1020 | 1.1026 | +1.5 | 5.20E+04 | 0.75 | 0.89 | 50.7 | 5.72E+02 | 5.71 |
| PCB-196 22'33'44'56'-OcCB | 43.49 | EMPC | 1.1166 | 1.1170 | +1.0 | 3.99E+04 | 1.04 | 0.83 | 41.7 | 5.72E+02 | 6.13 |
| PCB-203 22'344'55'6'-OcCB | 43.64 | EMPC | 1.1208 | 1.1208 | 0 | 3.74E+04 | 0.70 | 0.99 | 32.5 | 5.72E+02 | 5.09 |
| PCB-195 22'33'44'56'-OcCB | 44.78 | J EMPC | 0.9499 | 0.9498 | -0.3 | 1.86E+04 | 1.38 | 0.82 | 16.1 | 7.37E+02 | 7.02 |
| PCB-194 22'33'44'55'-OcCB | 46.74 | EMPC | 0.9914 | 0.9915 | +0.3 | 3.15E+04 | 0.73 | 0.85 | 26.2 | 7.37E+02 | 6.72 |
| PCB-205 233'44'55'6'-OcCB | ND | | 1.0004 | | | | | 1.12 | ND | 7.37E+02 | 5.12 |
| PCB-208 22'33'455'66'-NoCB | ND | | 1.0005 | | | | | 1.11 | ND | 2.35E+03 | 16.3 |
| PCB-207 22'33'44'566'-NoCB | ND | | 1.0180 | | | | | 0.91 | ND | 2.35E+03 | 19.8 |
| PCB-206 22'33'44'55'6'-NoCB | 48.87 | | 1.0005 | 1.0008 | +0.9 | 4.14E+04 | 0.74 | 1.04 | 36.9 | 2.35E+03 | 29.8 |
| AS PCB-32 FS | 19.943 | | 1.2584 | 1.2552 | -3.8 | 5.58E+06 | 1.04 | 0.77 | 80.1 % | 50% | 150% |
| AS PCB-97 FS | 30.701 | V | 1.0317 | 1.0317 | 0 | 3.69E+06 | 1.45 | 0.86 | 64.1 % | 50% | 150% |
| AS PCB-159 NR | 38.498 | | 1.0511 | 1.0512 | +0.2 | 7.79E+06 | 1.11 | 1.57 | 84.8 % | 50% | 150% |

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



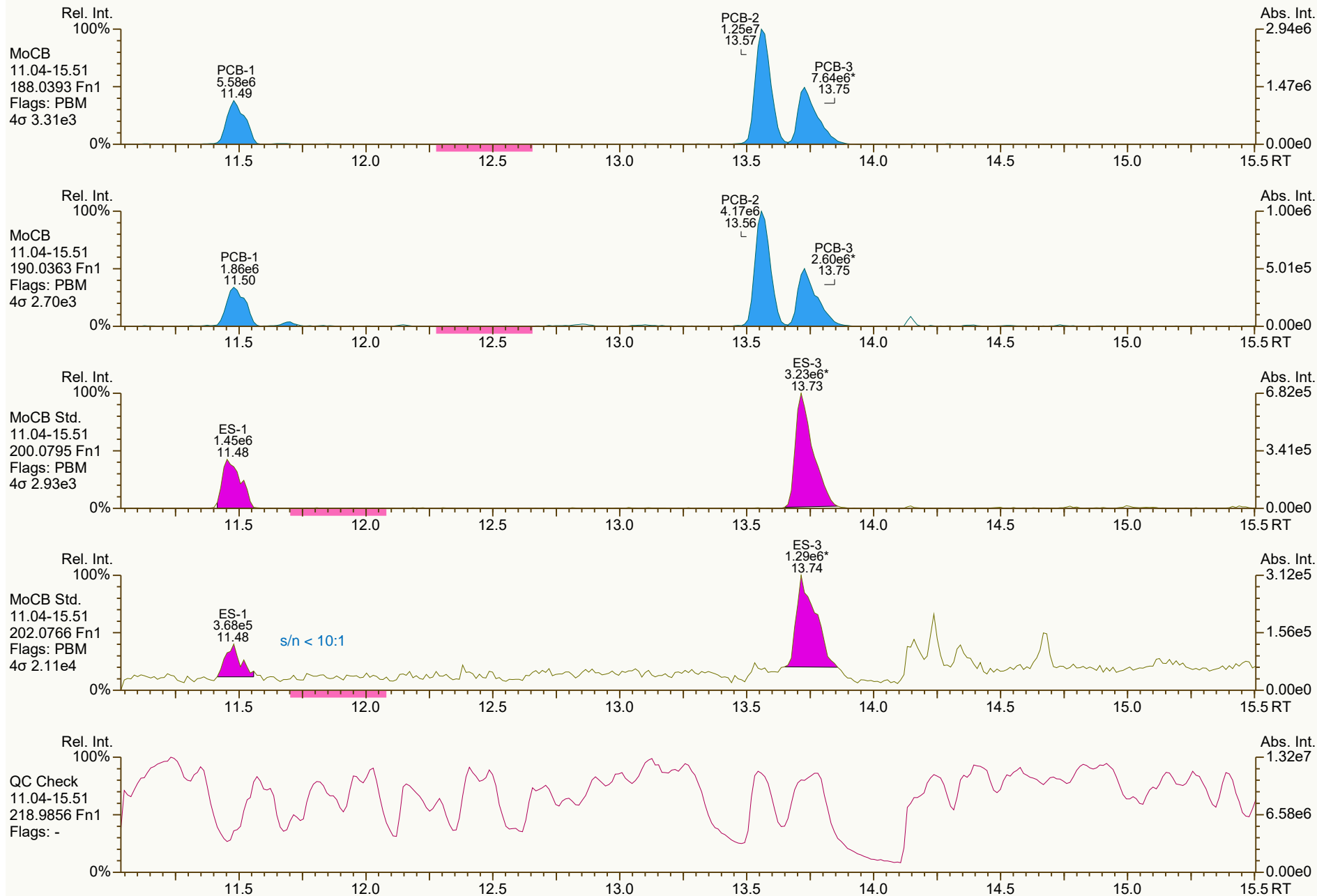
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q scc: 130-858

Peak annotation: Areas, Centroids
PKD: n/a Printed: 27-Sep-2024 13:19 Page 1 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



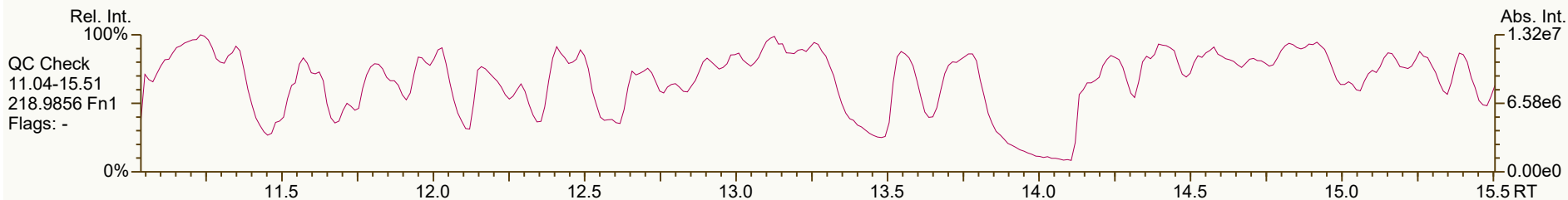
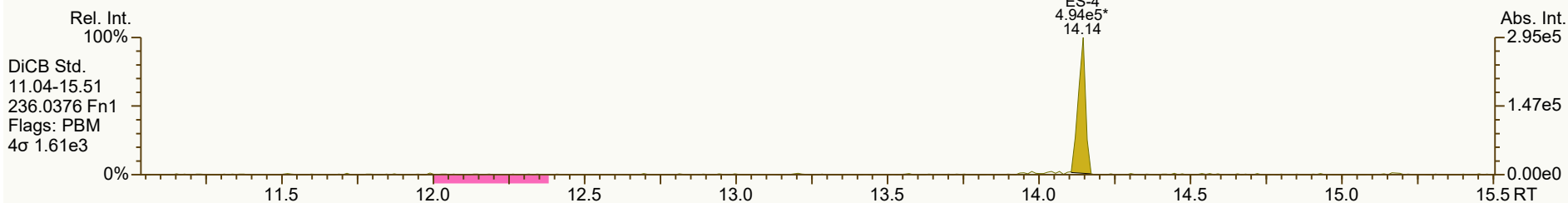
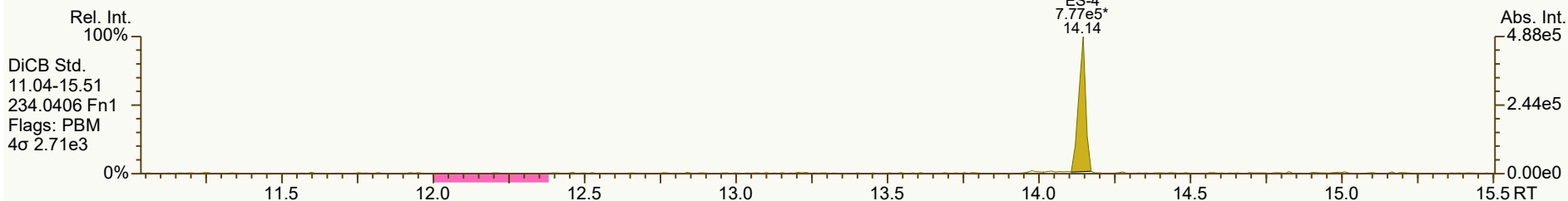
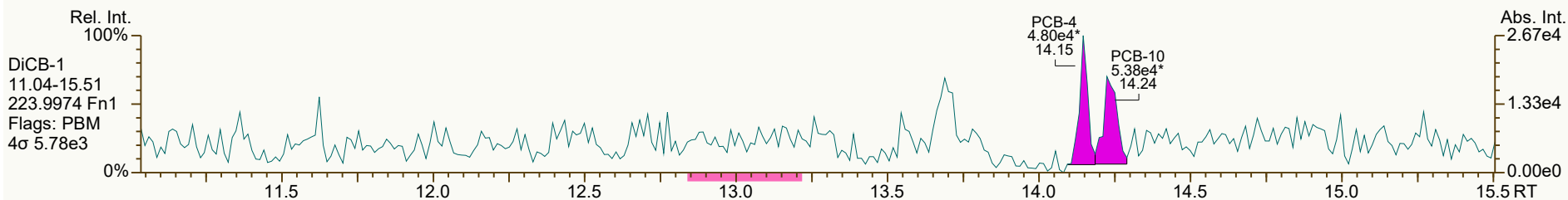
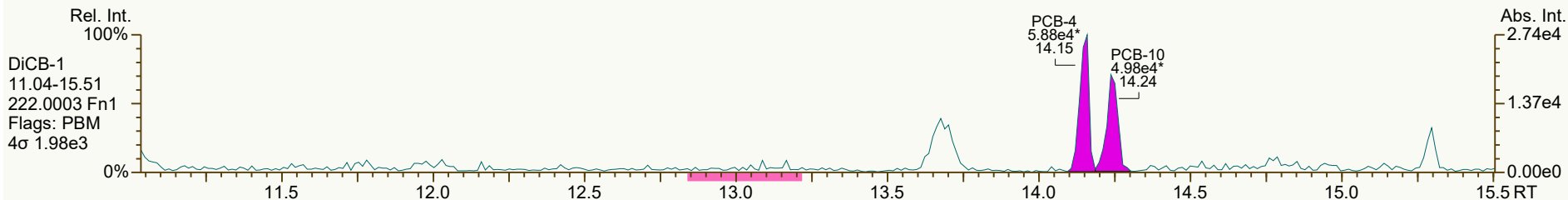
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 2 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

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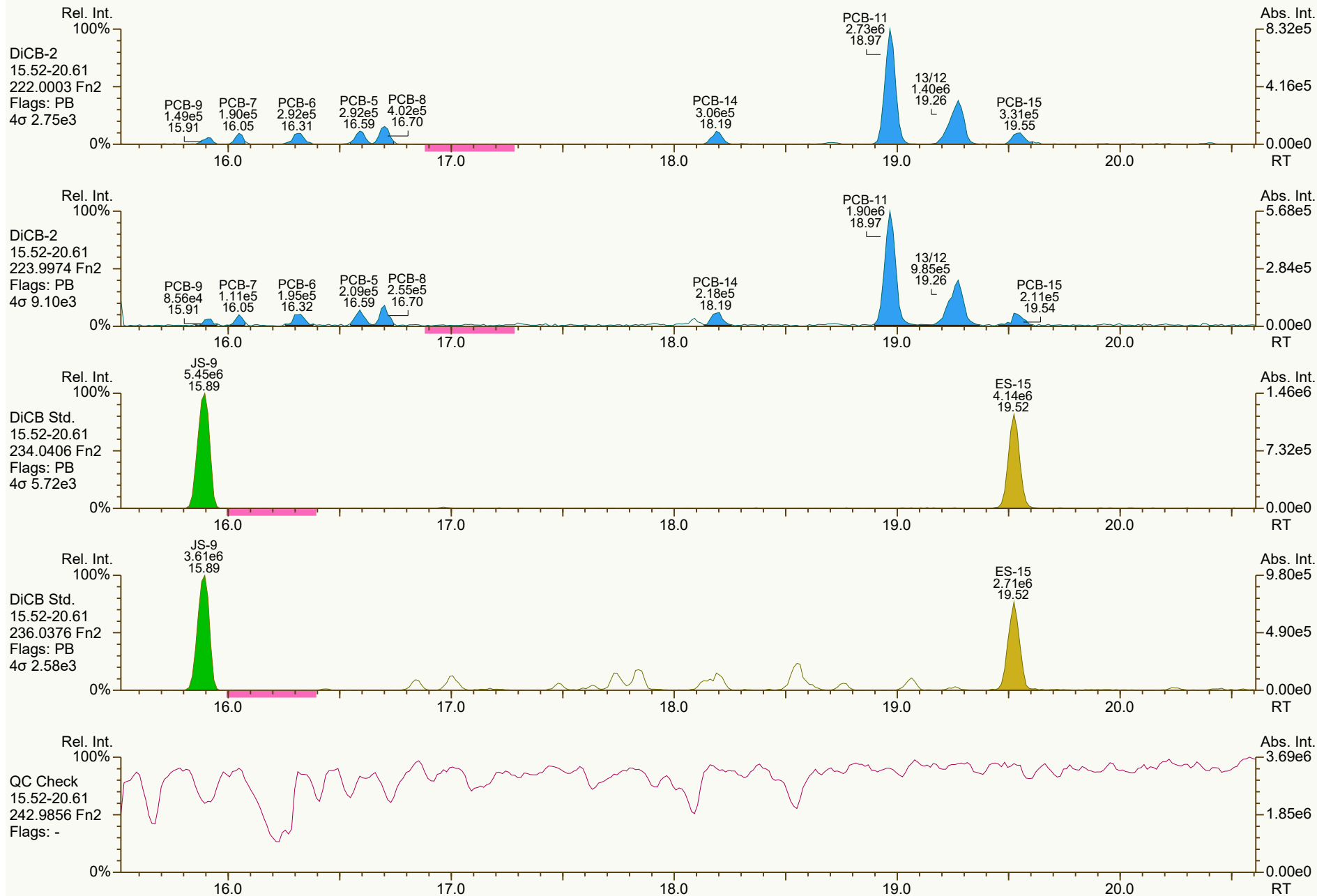
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Peak annotation: Areas, Centroids
Revised: 27-Sep-2024 13:14 (PSW) Printed: 27-Sep-2024 13:19 Page 3 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



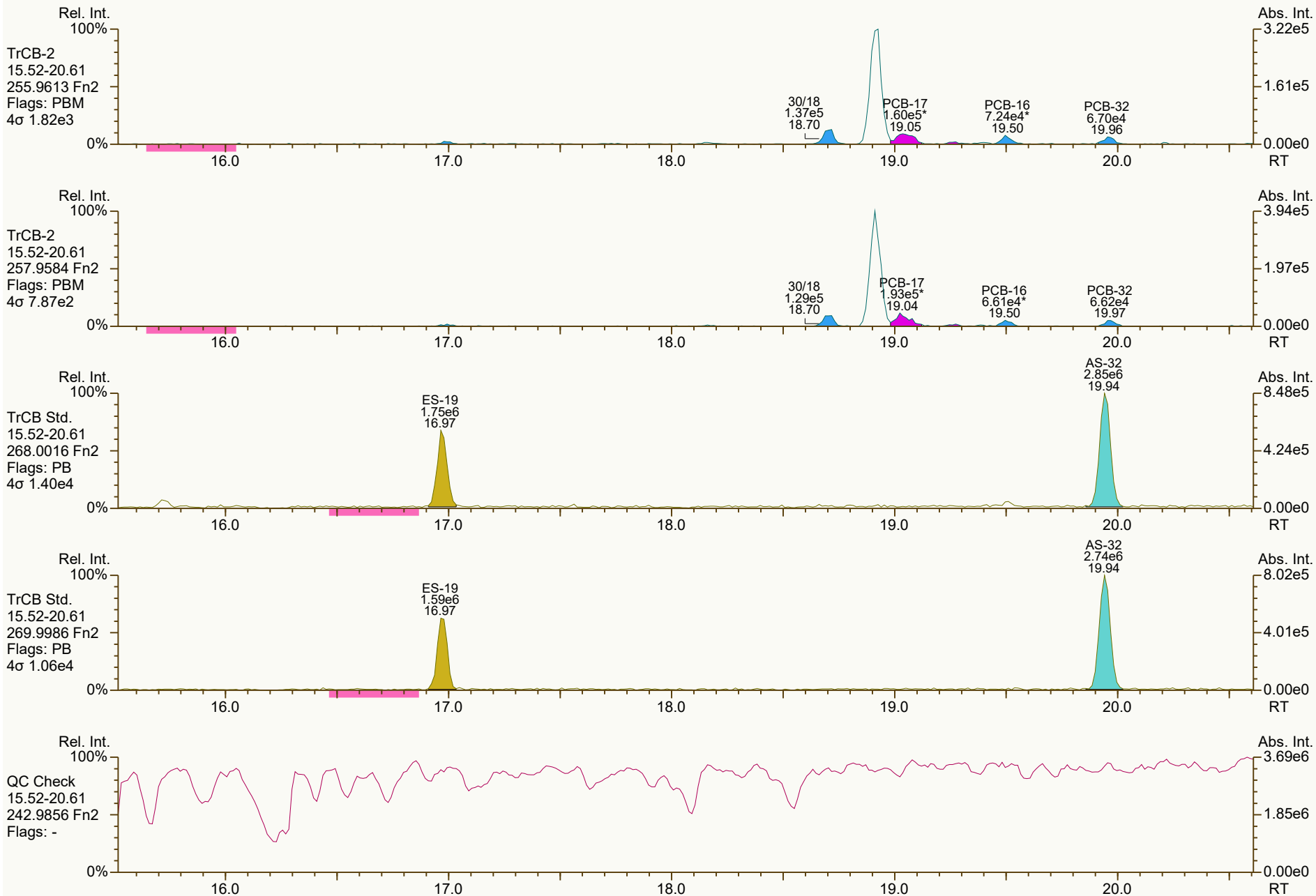
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 4 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



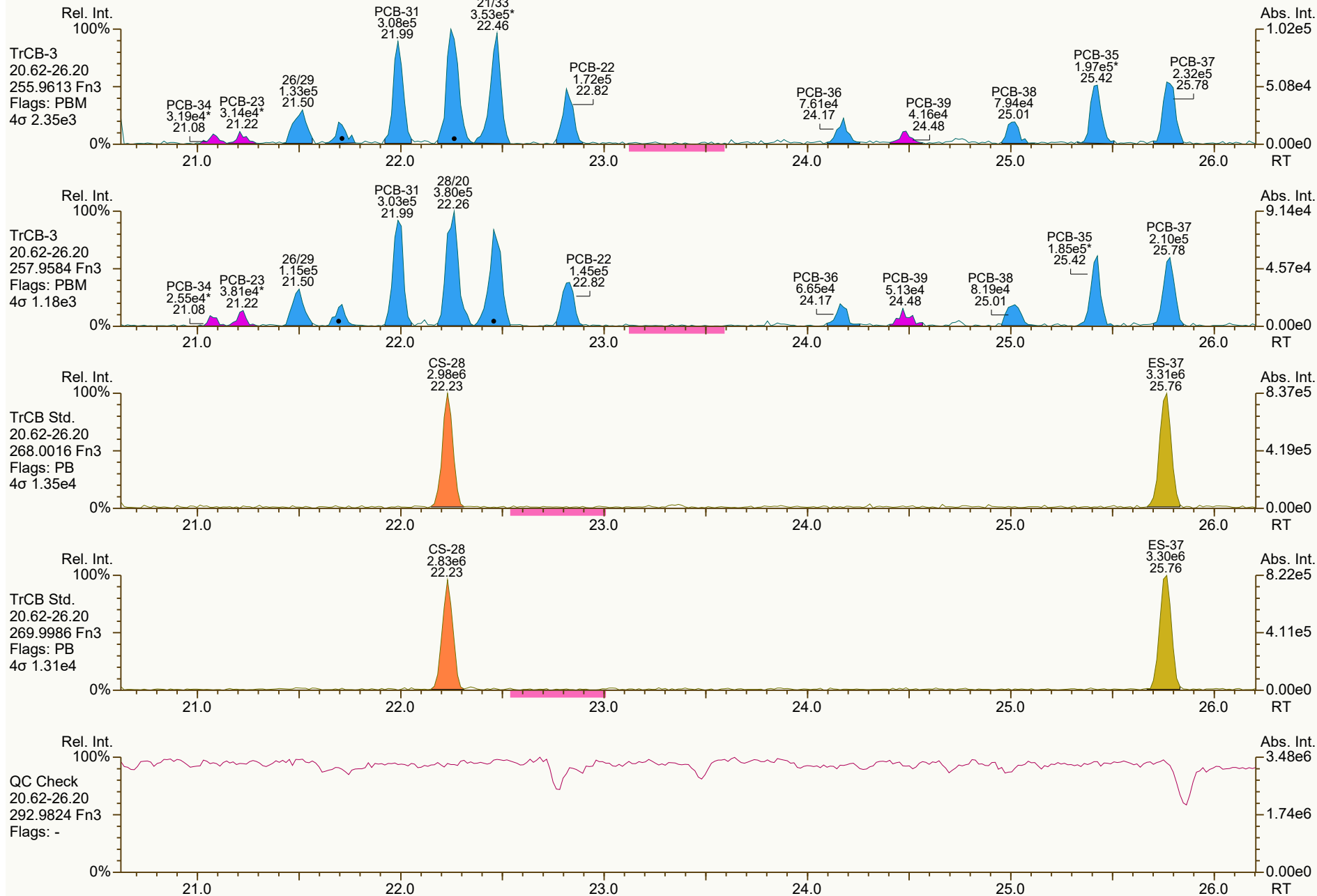
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 5898, 7876 scc: 130-858

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 5 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



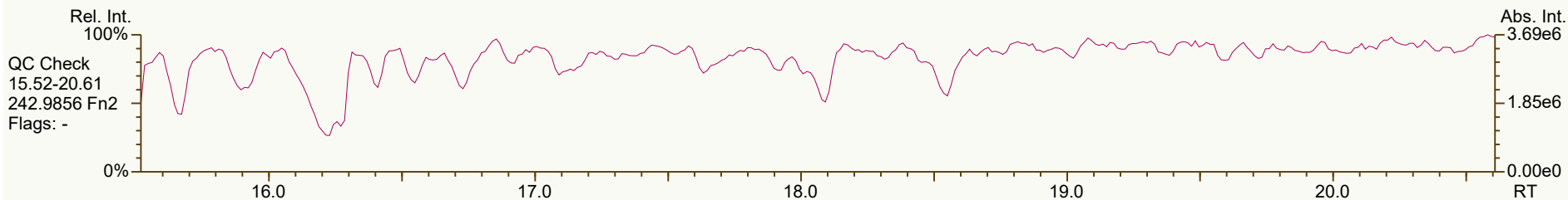
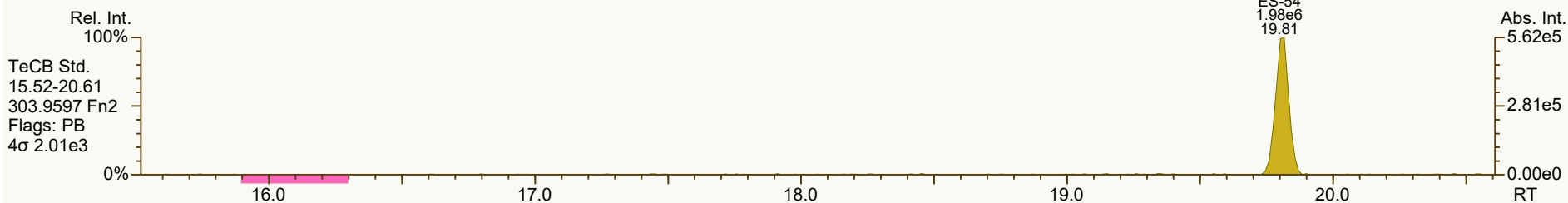
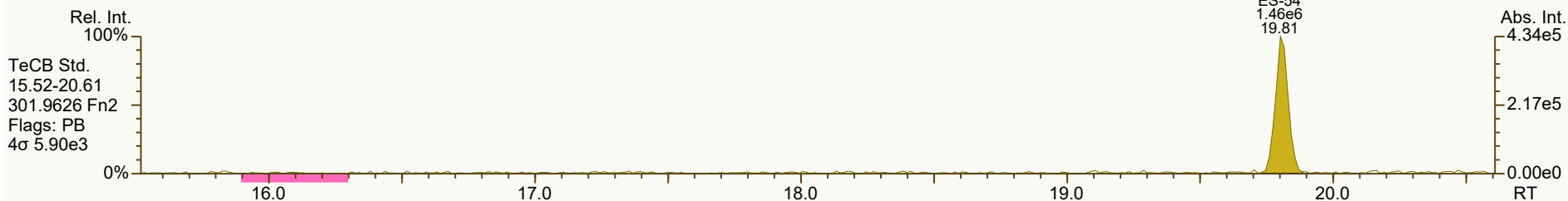
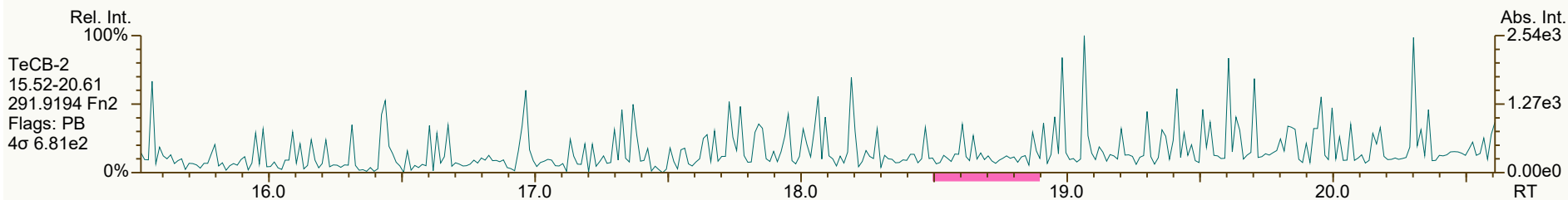
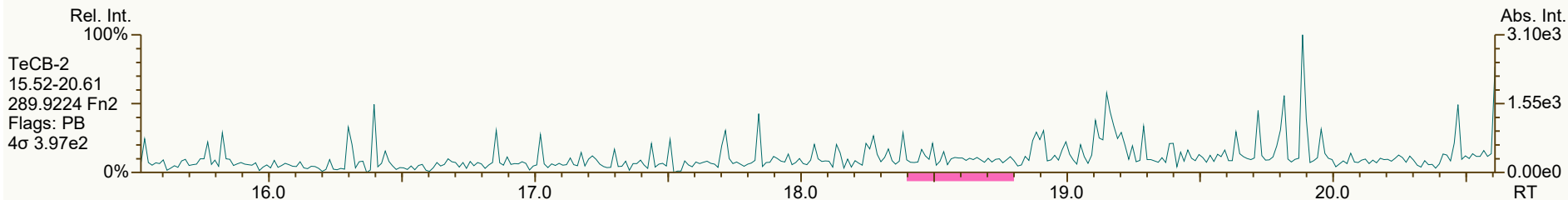
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6925, 3657 scc: 130-858

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:25 (PSW) Printed: 27-Sep-2024 13:19 Page 6 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



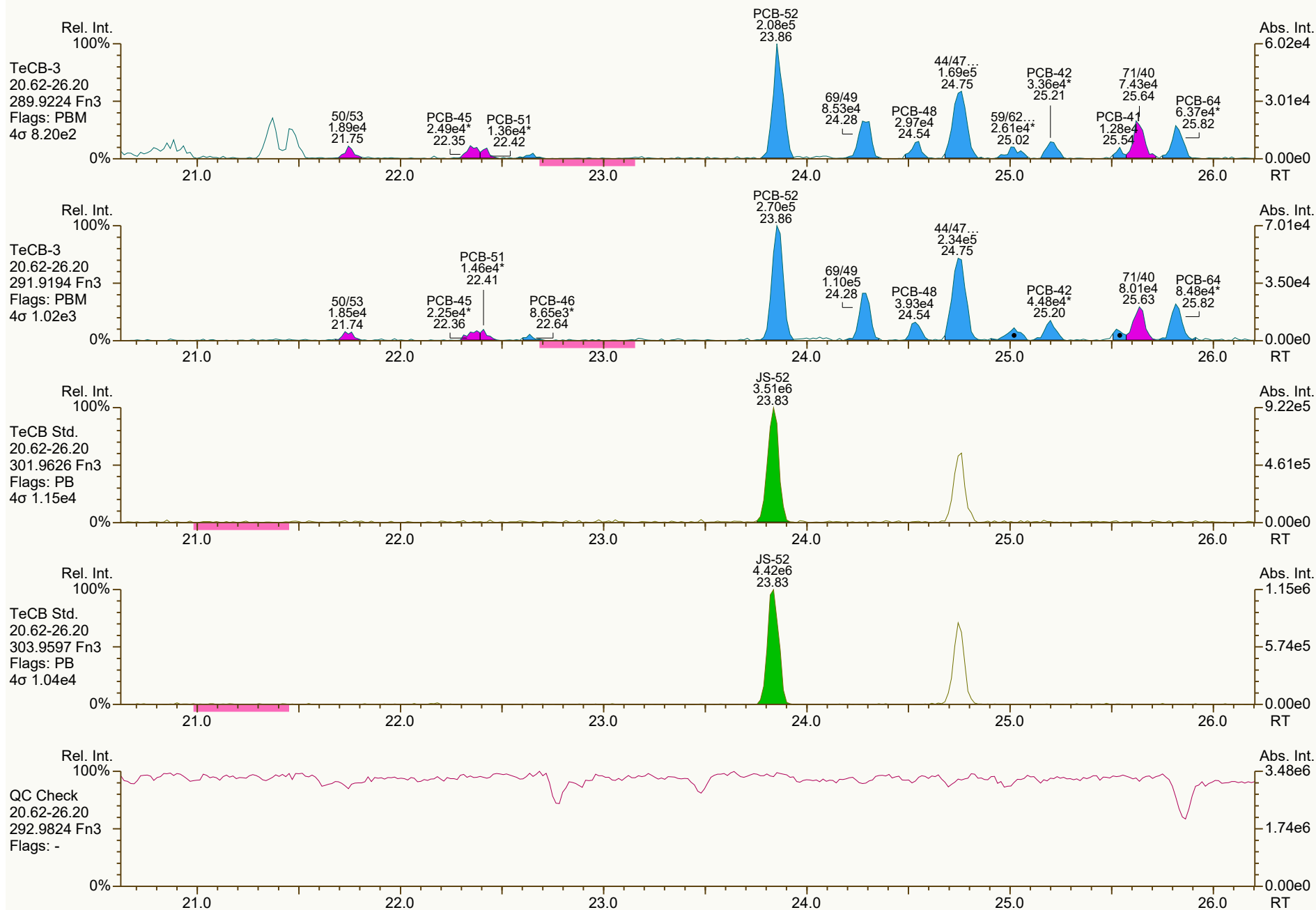
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Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:24 (PSW) Printed: 27-Sep-2024 13:19 Page 7 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

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User: RAB Datafile: 240918S07



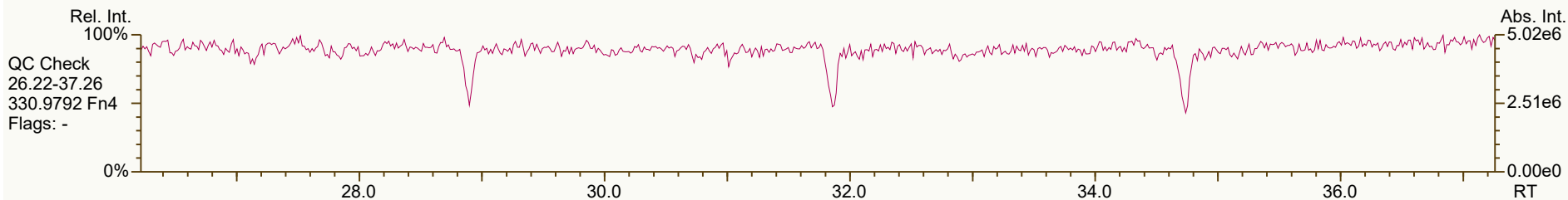
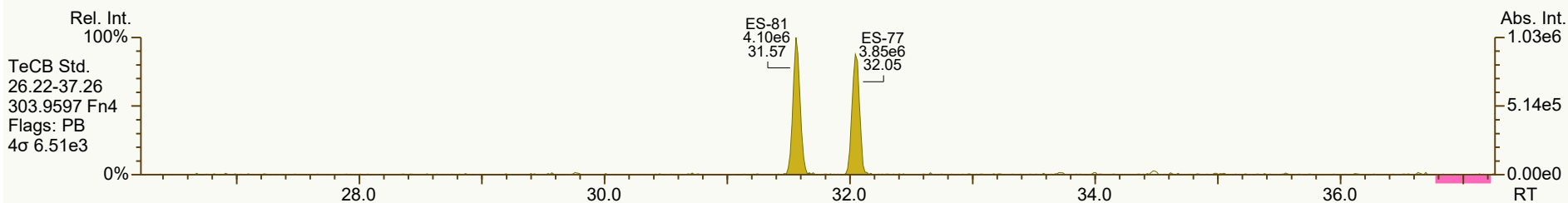
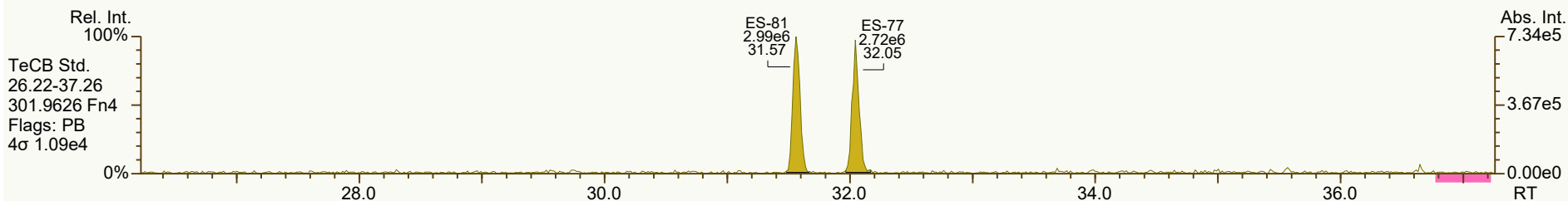
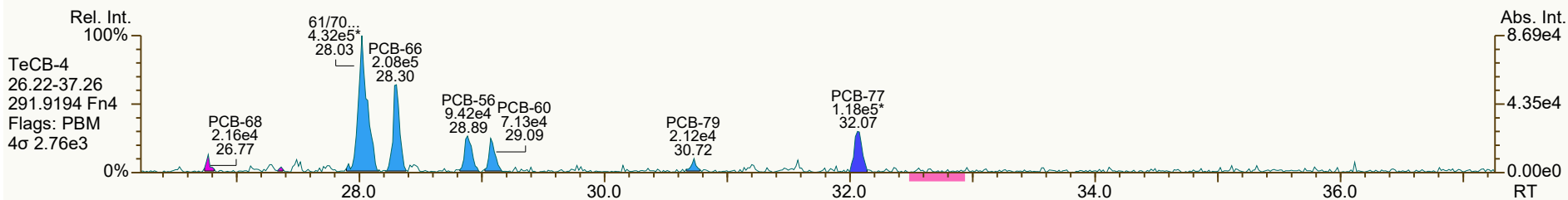
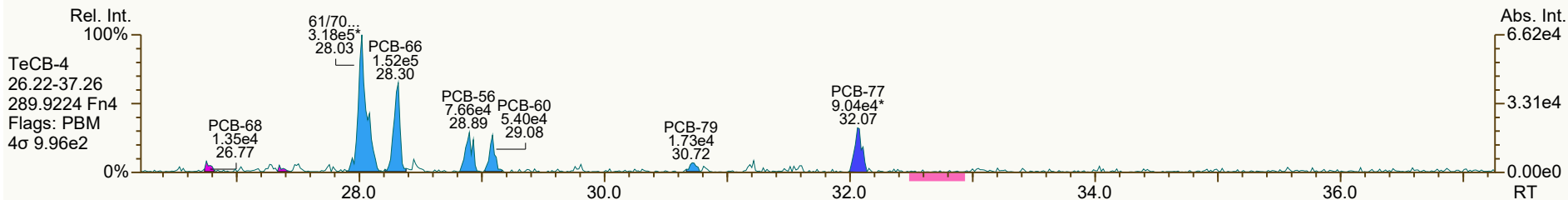
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 8 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



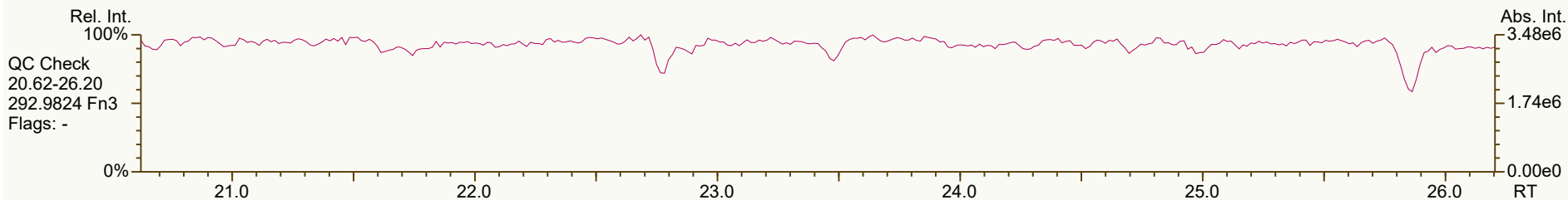
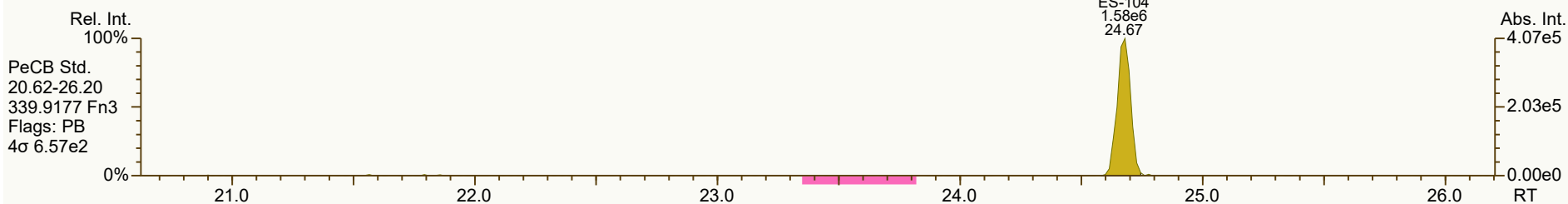
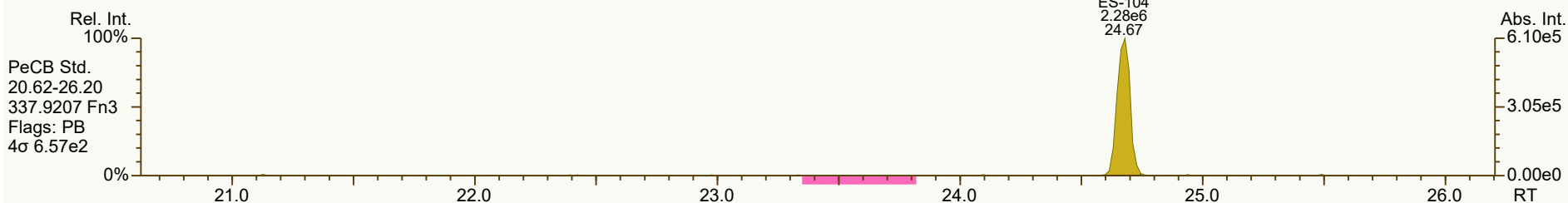
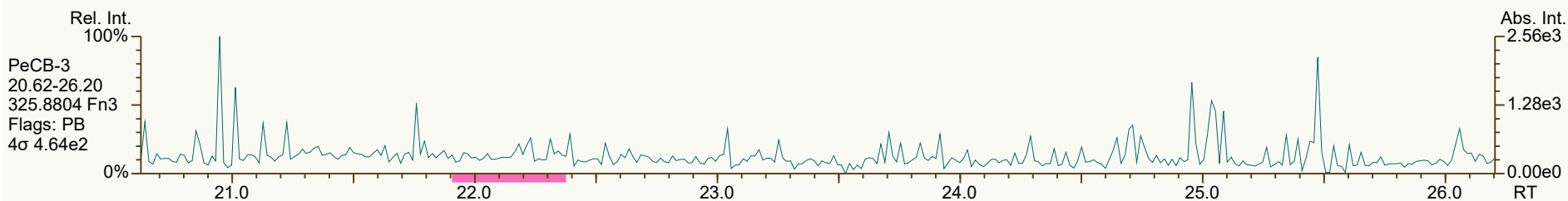
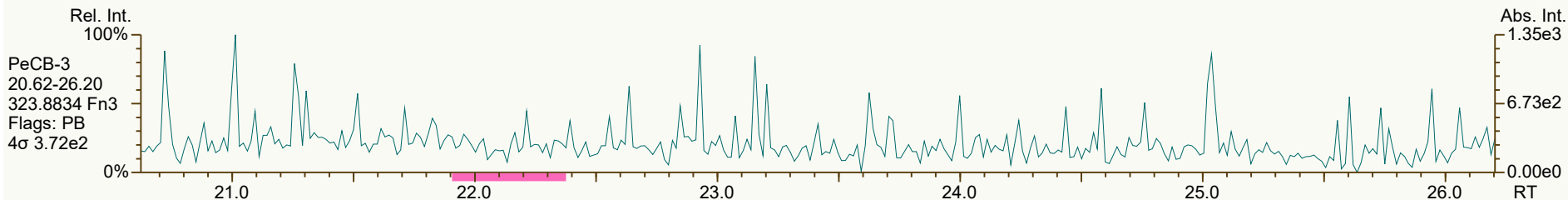
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 9 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



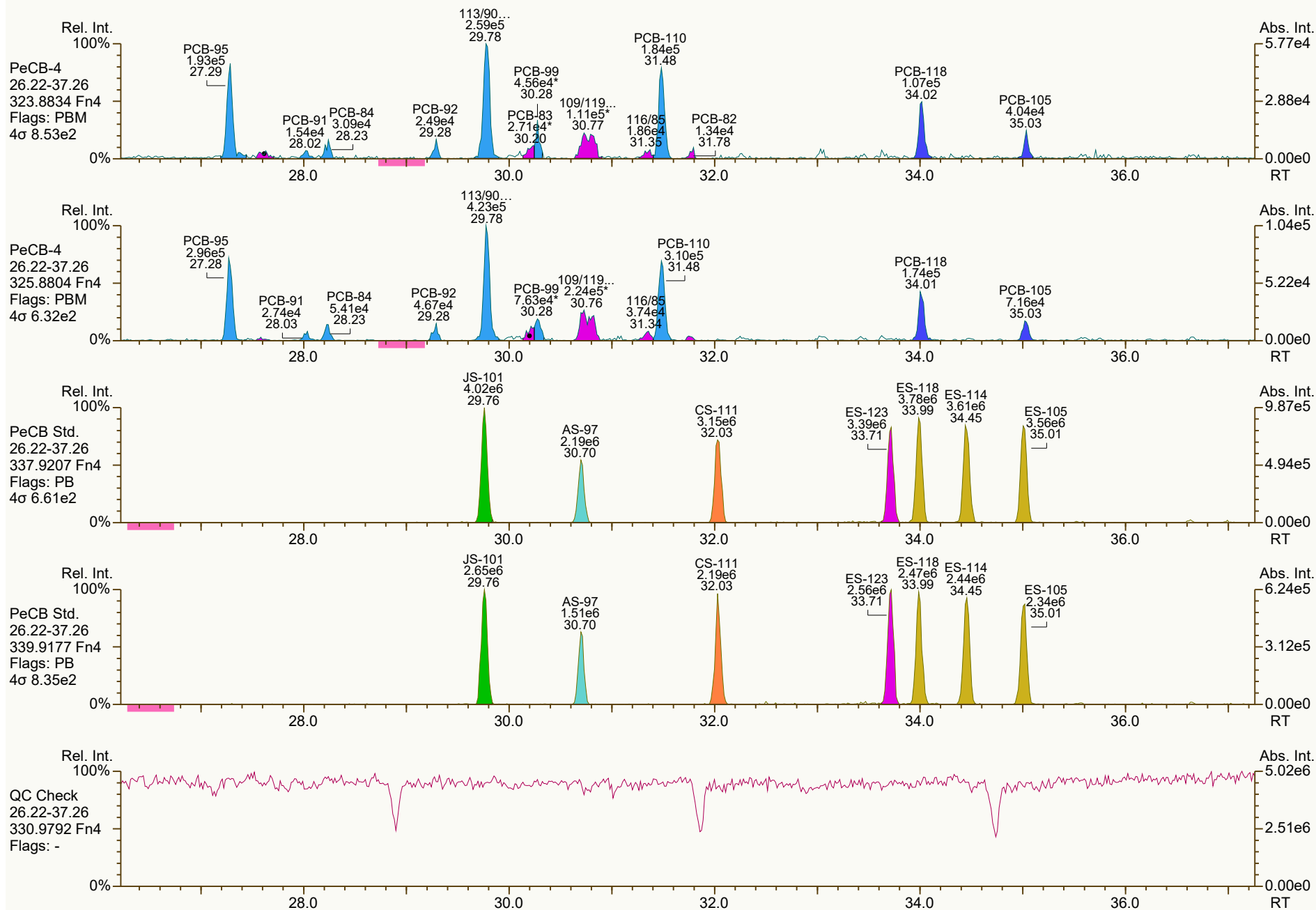
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8551, 1512 scc: 130-858

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:24 (PSW) Printed: 27-Sep-2024 13:19 Page 10 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



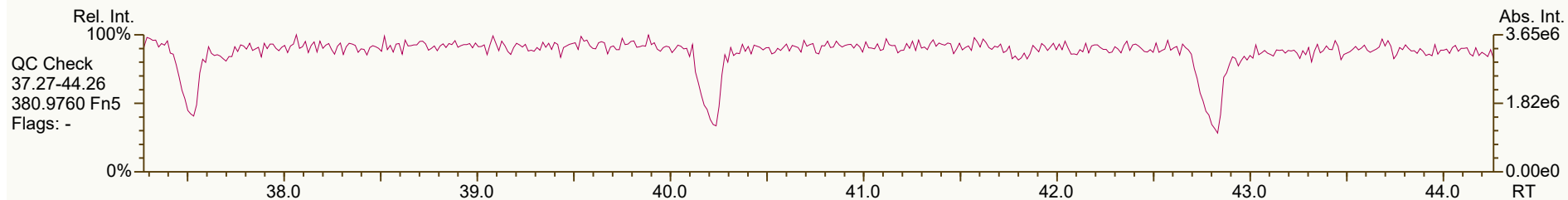
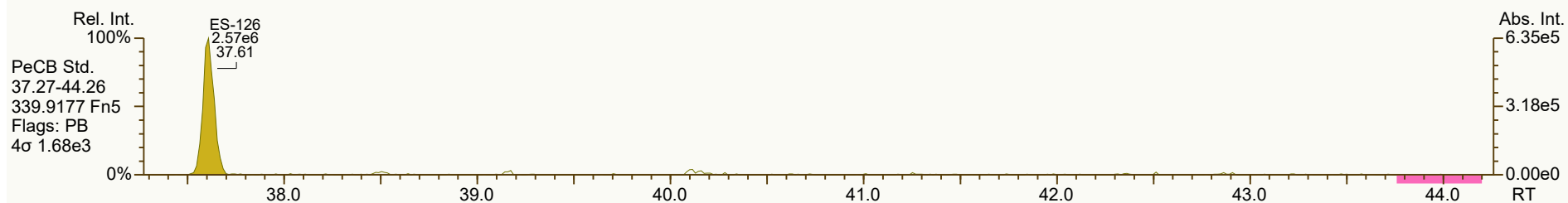
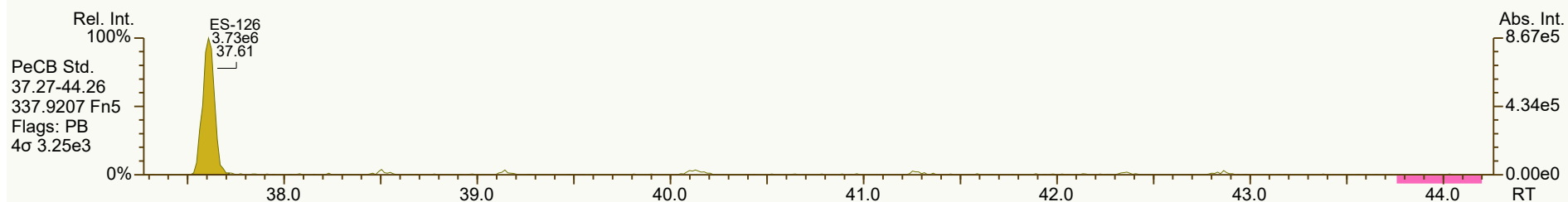
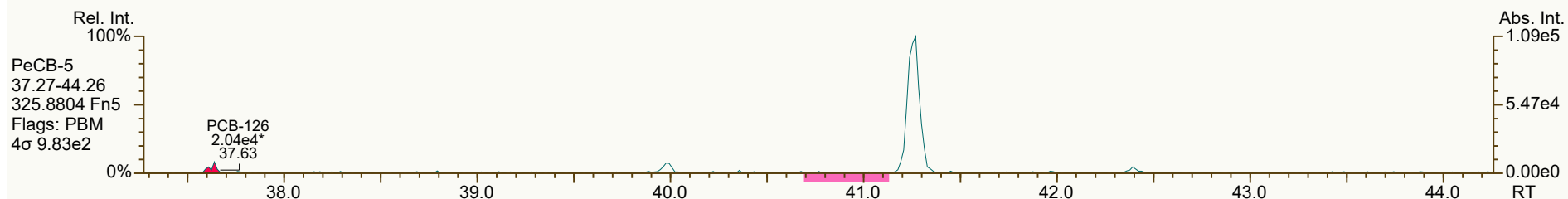
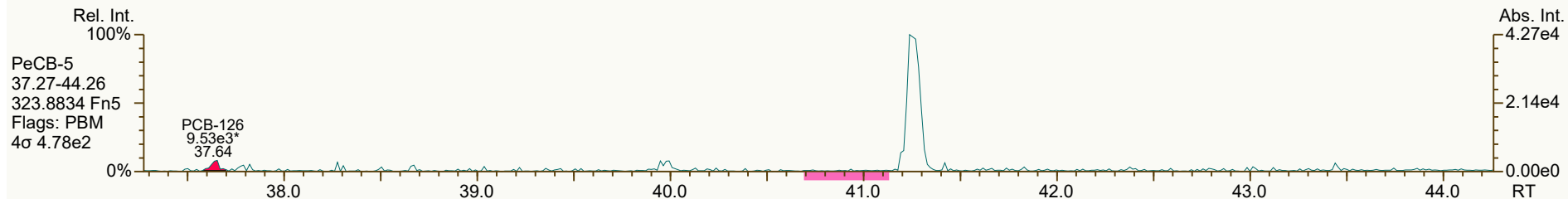
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 1181, 1787 scc: 130-858

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 11 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



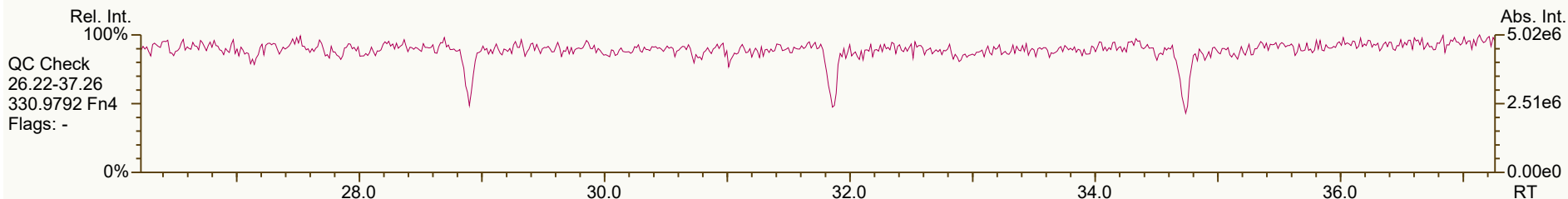
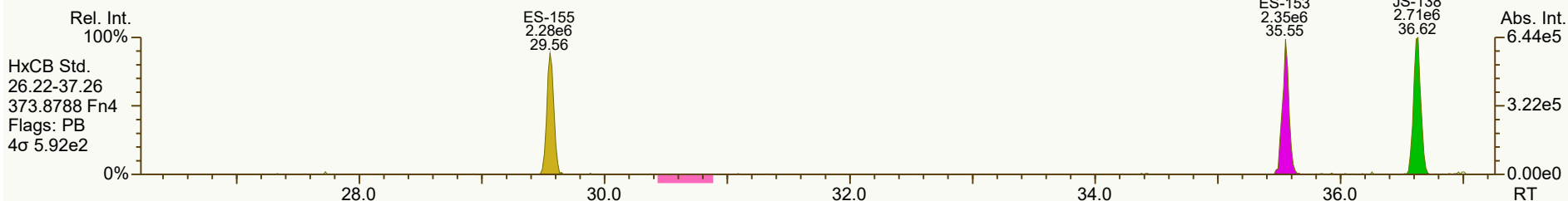
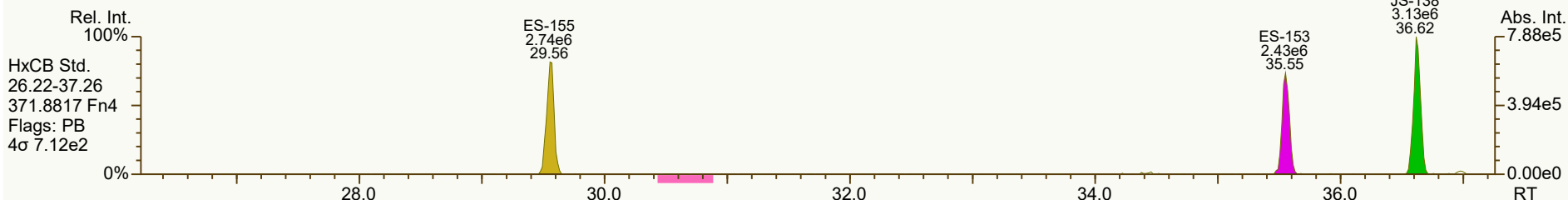
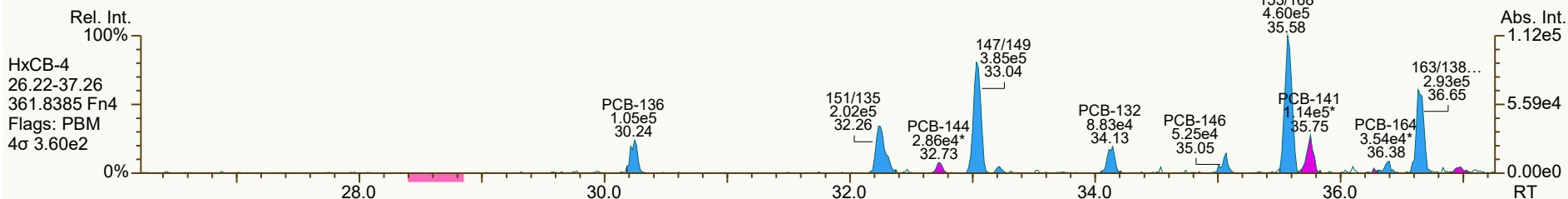
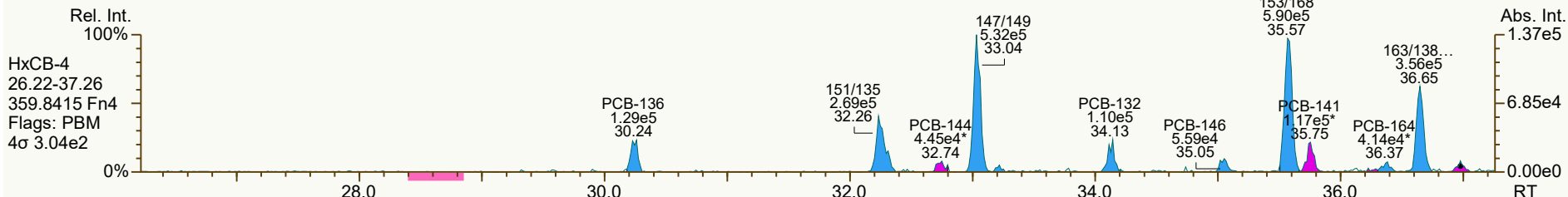
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 1757, 9539 scc: 130-858

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 12 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



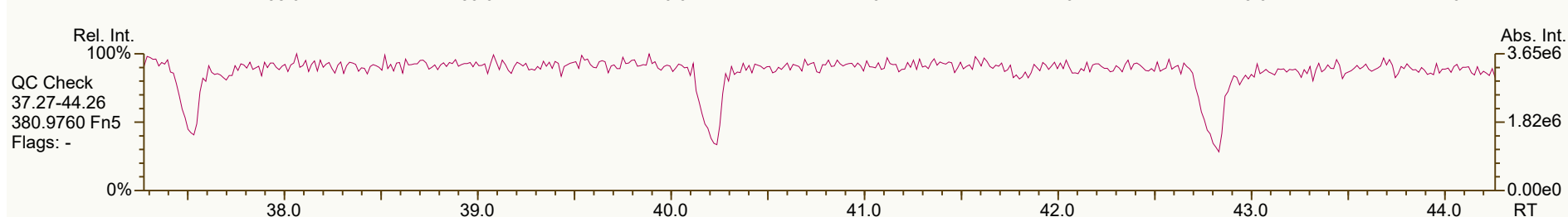
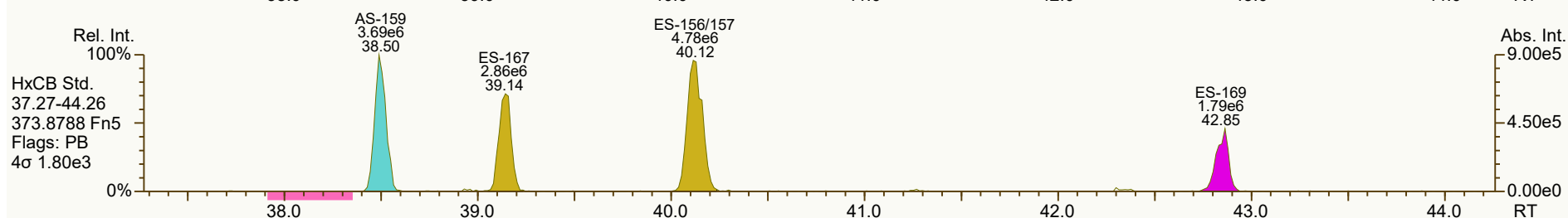
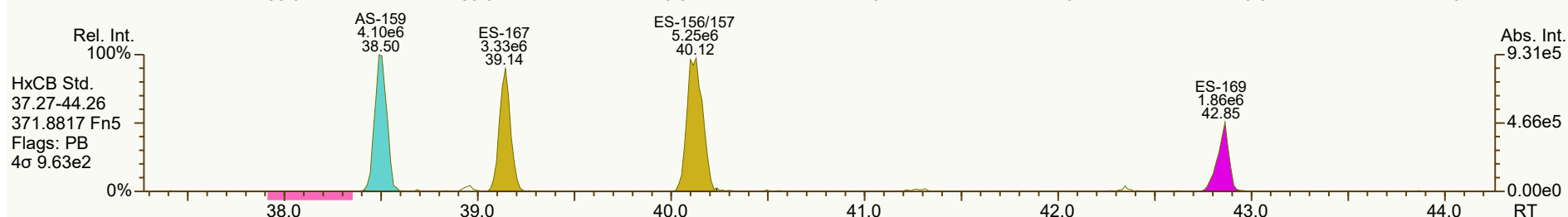
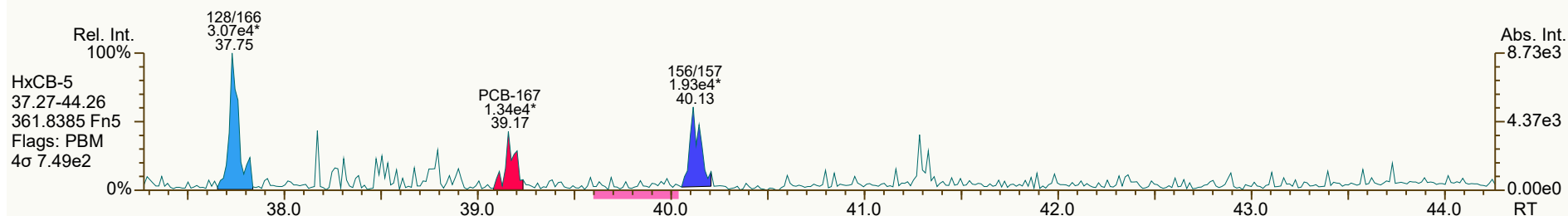
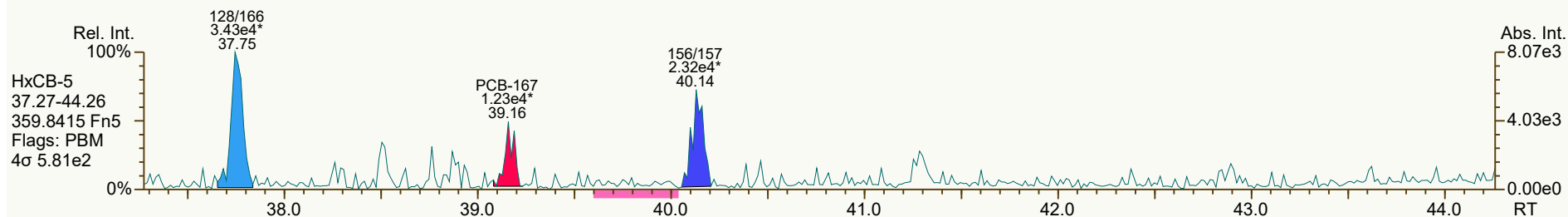
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8036, 0285 scc: 130-858

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 13 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_006-RJ.utp_res, saved 27-Sep-2024 13:14 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8679, 4374 scc: 130-858

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 14 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



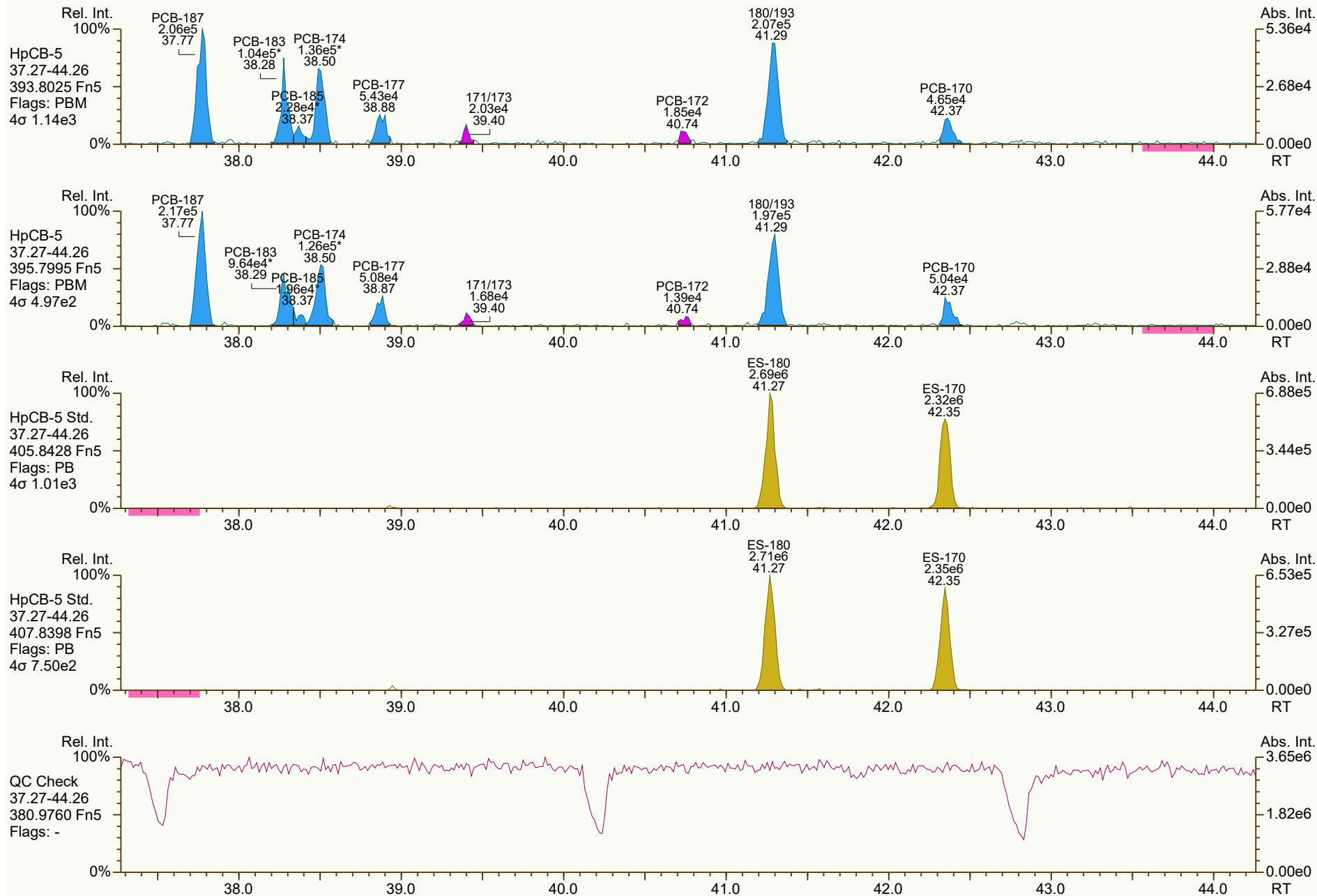
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7540, 4905 scc: 130-858

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:28 (PSW) Printed: 27-Sep-2024 13:19 Page 15 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_006-RJ.utp_res, saved 27-Sep-2024 13:14 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4653, 2012 scc: 130-858

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 16 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_006-RJ.utp_res, saved 27-Sep-2024 13:14 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9522, 5561 scc: 130-858

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 17 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



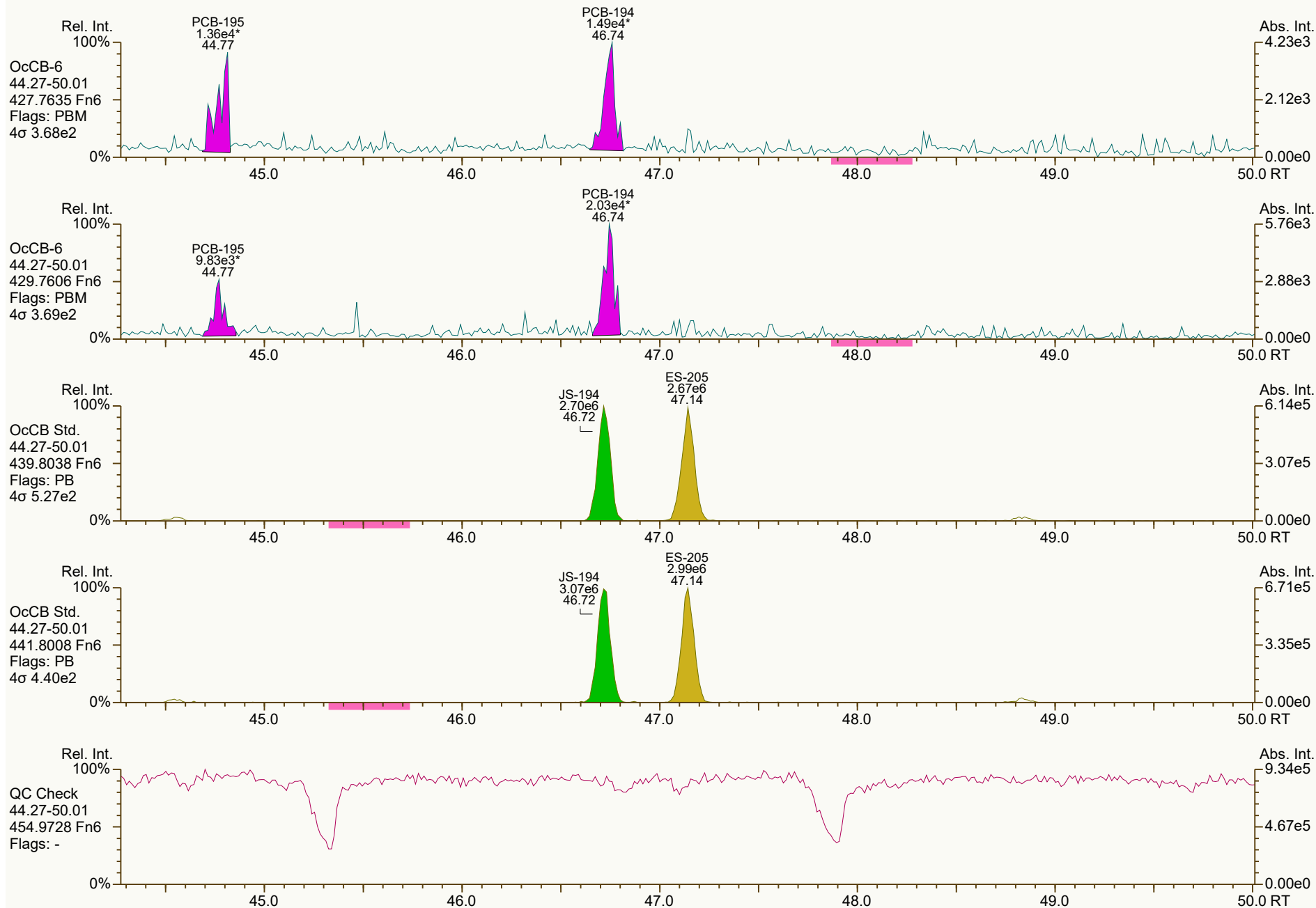
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 5346, 3295 scc: 130-858

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 18 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



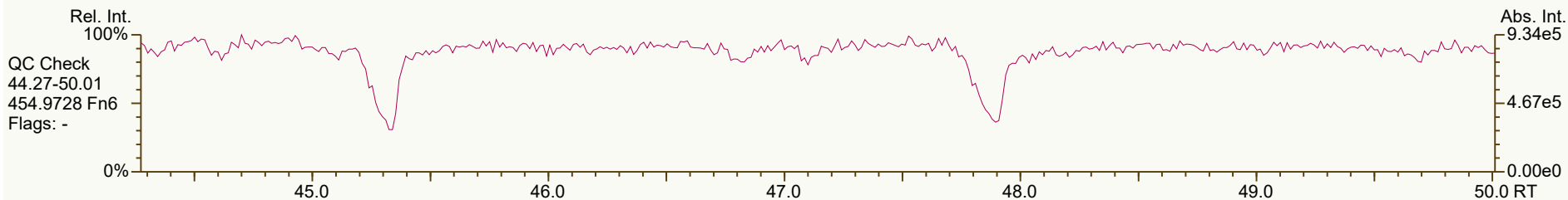
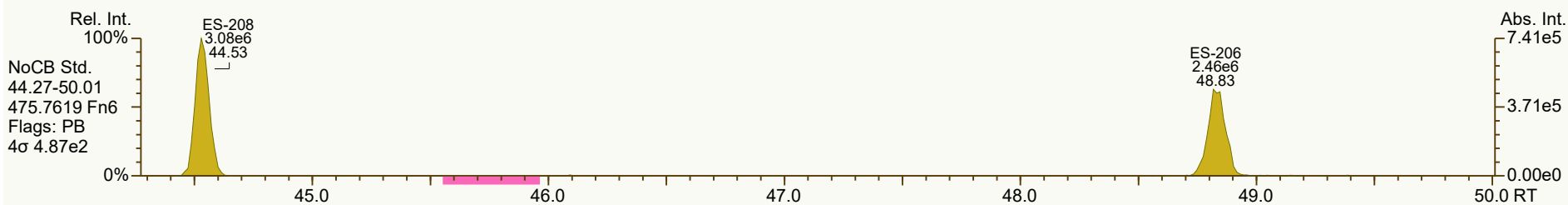
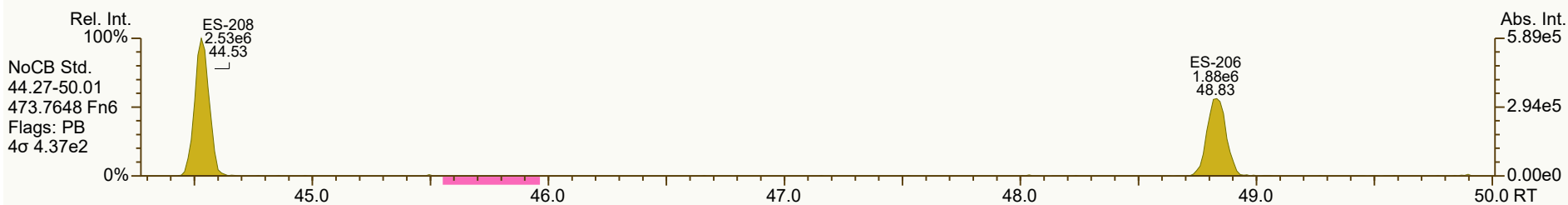
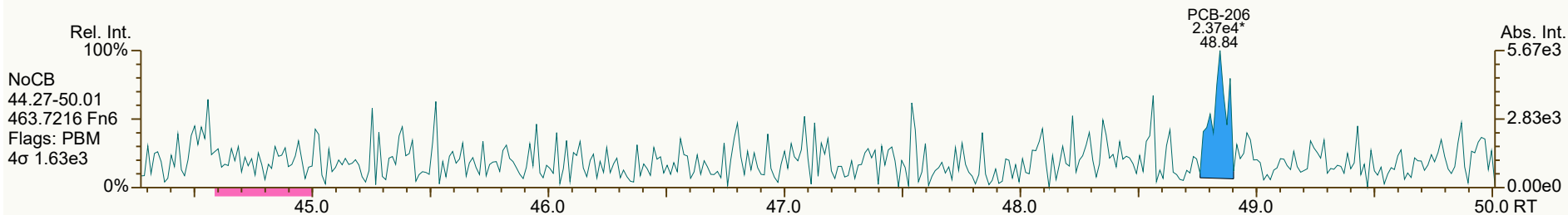
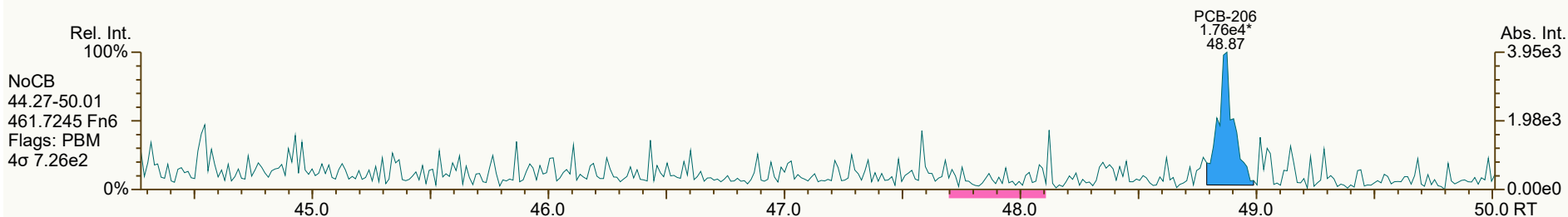
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4985, 8388 scc: 130-858

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 19 of 21

SGS ID: B9770_21382_PCB_006-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21
User: RAB Datafile: 240918S07



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_006-RJ.utp_res, saved 27-Sep-2024 13:14 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 1221, 4933 scc: 130-858

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 20 of 21

SGS ID: B9770_21382_PCB_006-RJ

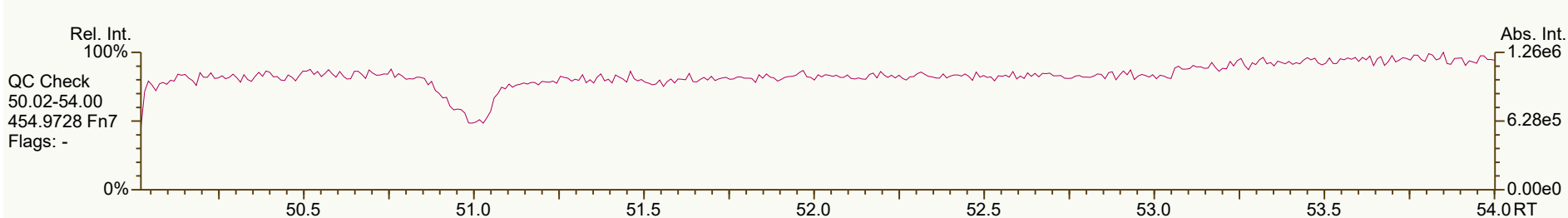
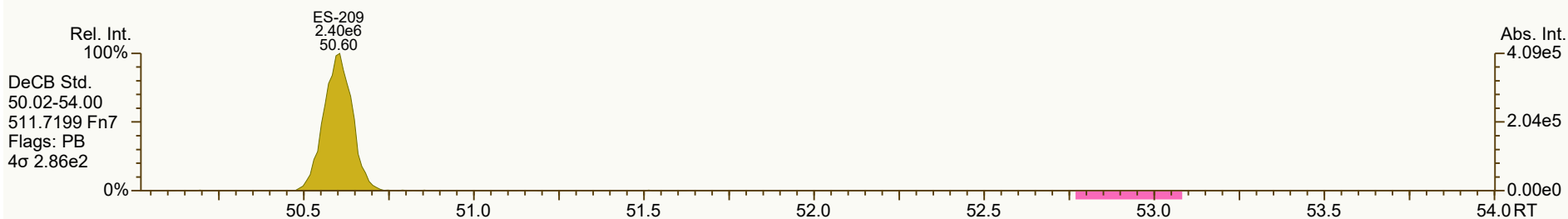
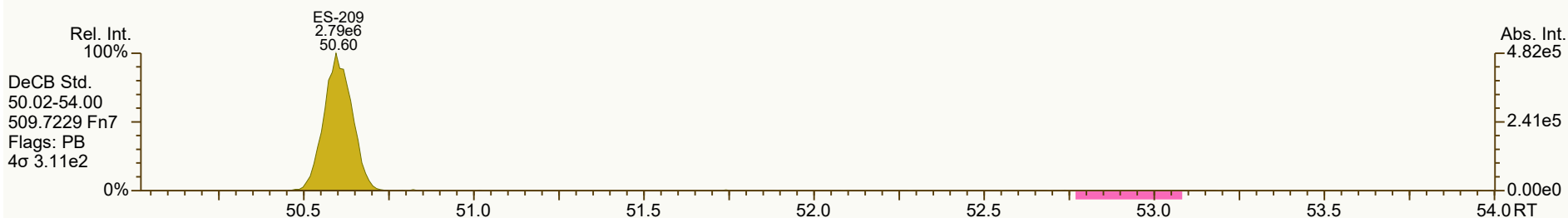
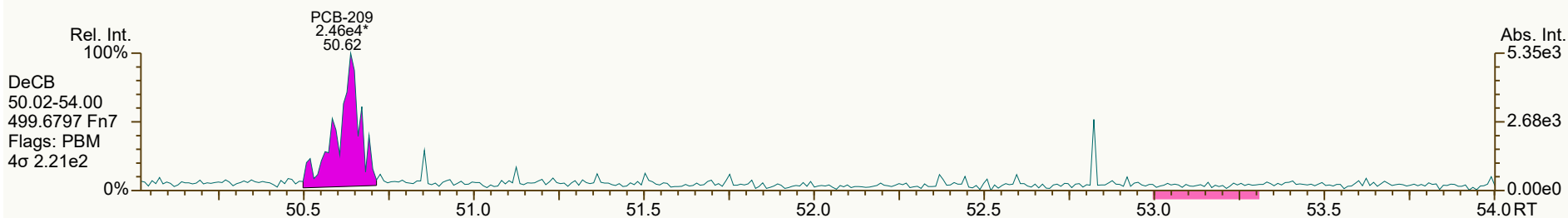
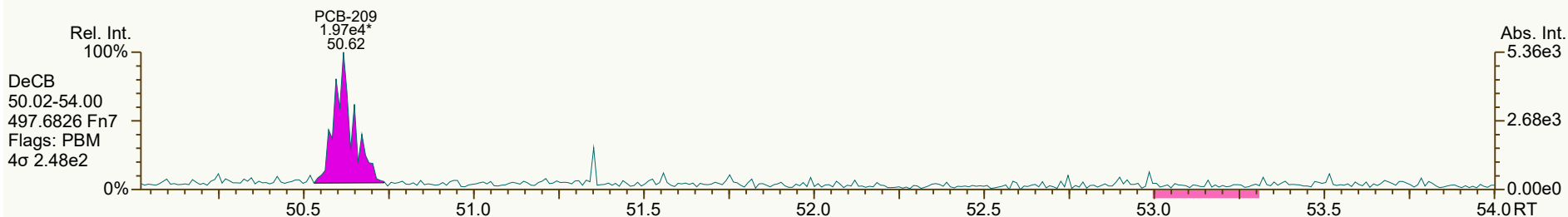
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#4 Mill On

VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 75

Acq: 18-Sep-2024 17:10:21

User: RAB Datafile: 240918S07



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_006-RJ.utp_res, saved 27-Sep-2024 13:14 (PSW)

SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9390, 5785 scc: 130-858

Peak annotation: Areas, Centroids

PKD: 20-Sep-2024 10:29 Printed: 27-Sep-2024 13:19 Page 21 of 21

Lab ID: B9770_21382_PCB_007-RJ

ACQ: 18-Sep-2024 18:07:56 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#5 Mill On

UTP: 20-Sep-2024 10:52:56 PSW

J-level: 20 pg Split: 2

Checkcode: 934-187-CN/C

Datafile: 240918S08

RPT: 23-Sep-2024 11:07 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------|--------------|--------|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-77 33'44'-TeCB | 32.06 | J EMPC | 1.0006 | 1.0004 | -0.4 | 3.35E+04 | 0.59 | 1.45 | 13.3 | 2.82E+03 | 10.7 |
| PCB-81 344'5'-TeCB | ND | | 1.0005 | | | | | 1.46 | ND | 2.82E+03 | 10.8 |
| PCB-105 233'44'-PeCB | 35.03 | B | 1.0007 | 1.0007 | 0 | 5.49E+04 | 0.64 | 1.18 | 30.7 | 1.24E+03 | 6.95 |
| PCB-114 2344'5'-PeCB | ND | | 1.0007 | | | | | 1.14 | ND | 1.24E+03 | 7.37 |
| PCB-118 23'44'5'-PeCB | 34.01 | B | 1.0007 | 1.0006 | -0.2 | 1.45E+05 | 0.59 | 1.18 | 76.1 | 1.24E+03 | 6.27 |
| PCB-123 23'44'5'-PeCB | ND | | 1.0006 | | | | | 1.19 | ND | 1.24E+03 | 6.59 |
| PCB-126 33'44'5'-PeCB | ND | | 1.0005 | | | | | 1.35 | ND | 1.14E+03 | 5.64 |
| PCB-156/157 ...-HxCB | ND | C | 1.0005 | | | | | 1.23 | ND | 8.69E+02 | 7.69 |
| PCB-167 23'44'55'-HxCB | ND | | 1.0005 | | | | | 1.22 | ND | 8.69E+02 | 4.48 |
| PCB-169 33'44'55'-HxCB | ND | | 1.0005 | | | | | 1.23 | ND | 8.69E+02 | 5.09 |
| PCB-189 233'44'55'-HpCB | ND | | 1.0004 | | | | | 1.31 | ND | 9.52E+02 | 4.21 |
| PCB-209 DeCB | ND | | 1.0005 | | | | | 1.08 | ND | 5.68E+02 | 6.27 |
| | | | | | | | | | | 20% | 145% |
| ES PCB-1 | 11.44 | | 0.7229 | 0.7221 | -0.5 | 3.72E+06 | 2.75 | 1.09 | 32.5 % | 5% | 145% |
| ES PCB-3 | 13.69 | | 0.8630 | 0.8637 | +0.6 | 5.36E+06 | 2.29 | 1.06 | 48 % | 5% | 145% |
| ES PCB-4 | 14.05 | | 0.8788 | 0.8866 | +6.6 | 1.97E+06 | 1.44 | 0.52 | 36 % | 5% | 145% |
| ES PCB-15 | 19.51 | | 1.2319 | 1.2309 | -1.2 | 7.68E+06 | 1.45 | 1.11 | 65.5 % | 5% | 145% |
| ES PCB-19 | 16.94 | | 1.0691 | 1.0688 | -0.3 | 3.90E+06 | 1.07 | 0.54 | 68.6 % | 5% | 145% |
| ES PCB-37 | 25.76 | | 1.0809 | 1.0810 | +0.2 | 7.04E+06 | 1.04 | 1.71 | 55.5 % | 5% | 145% |
| ES PCB-54 | 19.79 | | 0.8306 | 0.8307 | +0.1 | 3.71E+06 | 0.78 | 0.78 | 64.2 % | 5% | 145% |
| ES PCB-77 | 32.05 | | 1.3442 | 1.3450 | +1.5 | 6.95E+06 | 0.66 | 1.53 | 61.3 % | 10% | 145% |
| ES PCB-81 | 31.57 | | 1.3240 | 1.3248 | +1.5 | 7.27E+06 | 0.73 | 1.55 | 63 % | 10% | 145% |
| ES PCB-104 | 24.67 | | 0.8294 | 0.8290 | -0.6 | 3.46E+06 | 1.86 | 0.74 | 77.7 % | 10% | 145% |
| ES PCB-105 | 35.01 | | 1.1761 | 1.1765 | +0.8 | 6.06E+06 | 1.58 | 1.31 | 77.5 % | 10% | 145% |
| ES PCB-114 | 34.45 | | 1.1575 | 1.1578 | +0.6 | 6.45E+06 | 1.55 | 1.34 | 80.2 % | 10% | 145% |
| ES PCB-118 | 33.99 | | 1.1420 | 1.1423 | +0.6 | 6.45E+06 | 1.51 | 1.35 | 79.6 % | 10% | 145% |
| ES PCB-123 | 33.71 | | 1.1327 | 1.1329 | +0.4 | 6.77E+06 | 1.37 | 1.29 | 87.7 % | 10% | 145% |
| ES PCB-126 | 37.61 | | 1.2635 | 1.2638 | +0.7 | 6.60E+06 | 1.43 | 1.59 | 69.1 % | 10% | 145% |
| ES PCB-153 | 35.55 | | 0.9707 | 0.9707 | 0 | 4.28E+06 | 1.18 | 1.10 | 68.3 % | 10% | 145% |
| ES PCB-155 | 29.56 | | 0.8072 | 0.8070 | -0.4 | 4.83E+06 | 1.04 | 1.38 | 61.6 % | 10% | 145% |
| ES PCB-156/157 | 40.12 | C | 1.0958 | 1.0955 | -0.7 | 1.13E+07 | 1.10 | 1.62 | 61.4 % | 10% | 145% |
| ES PCB-167 | 39.13 | | 1.0687 | 1.0685 | -0.5 | 6.48E+06 | 1.07 | 1.70 | 66.9 % | 10% | 145% |
| ES PCB-169 | 42.83 | | 1.1697 | 1.1694 | -0.8 | 5.98E+06 | 1.12 | 1.55 | 67.5 % | 10% | 145% |
| ES PCB-170 | 42.34 | | 0.9066 | 0.9066 | 0 | 4.55E+06 | 0.92 | 1.06 | 78.6 % | 10% | 145% |
| ES PCB-180 | 41.26 | | 0.8835 | 0.8835 | 0 | 5.48E+06 | 0.96 | 1.30 | 77 % | 10% | 145% |
| ES PCB-188 | 34.42 | | 0.9398 | 0.9397 | -0.2 | 3.32E+06 | 0.99 | 0.63 | 93.1 % | 10% | 145% |
| ES PCB-189 | 44.93 | | 0.9621 | 0.9621 | 0 | 6.73E+06 | 0.97 | 1.71 | 72 % | 10% | 145% |
| ES PCB-202 | 38.93 | | 1.0632 | 1.0630 | -0.5 | 5.02E+06 | 0.85 | 0.96 | 92 % | 10% | 145% |
| ES PCB-205 | 47.13 | | 1.0091 | 1.0091 | 0 | 5.99E+06 | 0.89 | 1.23 | 88.7 % | 10% | 145% |
| ES PCB-206 | 48.81 | | 1.0453 | 1.0453 | 0 | 4.36E+06 | 0.75 | 0.84 | 94.6 % | 10% | 145% |

Lab ID: B9770_21382_PCB_007-RJ

ACQ: 18-Sep-2024 18:07:56 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#5 Mill On

UTP: 20-Sep-2024 10:52:56 PSW

J-level: 20 pg Split: 2

Checkcode: 934-187-CNX/C

Datafile: 240918S08

RPT: 23-Sep-2024 11:07 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------|------------------|----|-------------------|-------------------|-----------------|---------------------|-----------------|-----------------|-------------------|----------------------|--------------------|
| | | | | | | | | | | 20% | 145% |
| ES PCB-208 | 44.52 | | 0.9533 | 0.9533 | 0 | 5.85E+06 | 0.77 | 1.25 | 85.3 % | 10% | 145% |
| ES PCB-209 | 50.58 | | 1.0832 | 1.0831 | -0.3 | 5.21E+06 | 1.18 | 0.94 | 101 % | 10% | 145% |
| | | | | | | | | | | 70% | 130% |
| SS PCB-28 | 22.22 | | 0.9327 | 0.9326 | -0.1 | 6.37E+06 | 0.98 | 1.01 | 89.2 % | 5% | 145% |
| SS PCB-111 | 32.03 | | 1.0762 | 1.0765 | +0.6 | 5.42E+06 | 1.48 | 0.97 | 82.7 % | 10% | 145% |
| SS PCB-178 | 36.98 | | 1.0098 | 1.0098 | 0 | 2.87E+06 | 1.06 | 0.74 | 117 % | 10% | 145% |
| ES PCB-20 | 22.22 | | 0.9327 | 0.9326 | -0.1 | 6.37E+06 | 0.98 | 1.73 | 49.5 % | 5% | 145% |
| ES PCB-111 | 32.03 | | 1.0762 | 1.0765 | +0.6 | 5.42E+06 | 1.48 | 1.25 | 72.5 % | 10% | 145% |
| ES PCB-178 | 36.98 | | 1.0098 | 1.0098 | 0 | 2.87E+06 | 1.06 | 0.46 | 109 % | 10% | 145% |

| | | | | | | | | | | | |
|------------|-------|--|--|--|--|----------|------|--|--|--|--|
| JS PCB-9 | 15.85 | | | | | 1.05E+07 | 1.48 | | | | |
| JS PCB-52 | 23.83 | | | | | 7.44E+06 | 0.75 | | | | |
| JS PCB-101 | 29.76 | | | | | 5.99E+06 | 1.38 | | | | |
| JS PCB-138 | 36.63 | | | | | 5.70E+06 | 1.18 | | | | |
| JS PCB-194 | 46.70 | | | | | 5.47E+06 | 0.85 | | | | |

| | Totals | NON-EMPC | EMPC | DL |
|--|----------|----------|--------|------|
| | Mono-CB | 18,700 | 18,700 | 28.7 |
| | Di-CB | 3,360 | 4,000 | 12.5 |
| | Tri-CB | 728 | 1,220 | 15.7 |
| | Tetra-CB | 804 | 950 | 9.39 |
| | Penta-CB | 942 | 1,060 | 6.22 |
| | Hexa-CB | 1,360 | 1,430 | 5.3 |
| | Hepta-CB | 371 | 480 | 6.62 |
| | Octa-CB | 9.61 | 41.7 | 3.77 |
| | Nona-CB | 0 | 0 | 21.7 |

Lab ID: B9770_21382_PCB_007-RJ

ACQ: 18-Sep-2024 18:07:56 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#5 Mill On

UTP: 20-Sep-2024 10:52:56 PSW

J-level: 20 pg Split: 2

Checkcode: 934-187-CN/C

Datafile: 240918S08

RPT: 23-Sep-2024 11:07 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-----------|----------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-1 2-MoCB | 11.46 | | 1.0012 | 1.0011 | -0.1 | 9.84E+06 | 3.08 | 1.47 | 7,170 | 5.29E+03 | 30.6 |
| PCB-2 3-MoCB | 13.52 | | 0.9878 | 0.9879 | +0.1 | 1.28E+07 | 2.94 | 1.28 | 7,500 | 5.29E+03 | 30.6 |
| PCB-3 4-MoCB | 13.70 | | 1.0010 | 1.0011 | +0.1 | 7.84E+06 | 3.05 | 1.45 | 4,020 | 5.29E+03 | 26.8 |
| PCB-4 22'-DiCB | 14.06 | B EMPC | 1.0012 | 1.0004 | -0.7 | 1.28E+05 | 1.06 | 1.30 | 200 | 1.93E+03 | 16.5 |
| PCB-10 26-DiCB | 14.18 | | 1.0132 | 1.0089 | -3.7 | 6.17E+04 | SI | 1.60 | 78.3 | 1.93E+03 | 13.3 |
| PCB-9 25-DiCB | 15.86 | | 1.0010 | 1.0009 | -0.1 | 1.74E+05 | 1.40 | 1.08 | 83.8 | 2.44E+03 | 10.3 |
| PCB-7 24-DiCB | 16.02 | | 1.0110 | 1.0107 | -0.3 | 2.51E+05 | 1.38 | 0.96 | 136 | 2.44E+03 | 11.7 |
| PCB-6 23'-DiCB | 16.27 | B | 1.0257 | 1.0264 | +0.7 | 3.46E+05 | 1.75 | 1.12 | 161 | 2.44E+03 | 9.98 |
| PCB-5 23-DiCB | 16.55 | | 1.0444 | 1.0442 | -0.2 | 4.08E+05 | 1.55 | 0.93 | 228 | 2.44E+03 | 12 |
| PCB-8 24'-DiCB | 16.67 | B EMPC | 1.0517 | 1.0516 | -0.1 | 4.71E+05 | 1.32 | 1.16 | 211 | 2.44E+03 | 9.59 |
| PCB-14 35-DiCB | 18.17 | EMPC | 0.9312 | 0.9312 | 0 | 2.73E+05 | 1.86 | 0.97 | 147 | 2.44E+03 | 11.6 |
| PCB-11 33'-DiCB | 18.95 | B | 0.9713 | 0.9713 | 0 | 3.95E+06 | 1.52 | 1.06 | 1,950 | 2.44E+03 | 10.6 |
| PCB-13/12 34'/34-DiCB | 19.25 | C | 0.9860 | 0.9866 | +0.7 | 1.30E+06 | 1.64 | 0.94 | 723 | 2.44E+03 | 11.9 |
| PCB-15 44'-DiCB | 19.54 | B EMPC | 1.0008 | 1.0018 | +1.2 | 2.19E+05 | 2.28 | 1.31 | 87.2 | 2.44E+03 | 8.53 |
| PCB-19 22'6-TrCB | 16.95 | EMPC | 1.0010 | 1.0004 | -0.6 | 3.35E+04 | 1.54 | 1.16 | 29.5 | 2.49E+03 | 16.8 |
| PCB-30/18 246/22'5-TrCB | 18.67 | B C | 1.1015 | 1.1024 | +1.0 | 1.95E+05 | 0.93 | 1.47 | 136 | 2.49E+03 | 13.3 |
| PCB-17 22'4-TrCB | 19.06 | B EMPC | 1.1254 | 1.1250 | -0.5 | 1.10E+05 | 1.40 | 1.04 | 108 | 2.49E+03 | 18.8 |
| PCB-27 23'6-TrCB | 19.25 | EMPC | 1.1371 | 1.1363 | -0.9 | 4.36E+04 | 1.20 | 1.44 | 31.1 | 2.49E+03 | 13.6 |
| PCB-24 236-TrCB | 19.36 | J EMPC | 1.1444 | 1.1428 | -1.9 | 1.53E+04 | 1.74 | 1.47 | 10.6 | 2.49E+03 | 13.3 |
| PCB-16 22'3-TrCB | 19.48 | | 1.1508 | 1.1501 | -0.8 | 7.81E+04 | 1.08 | 1.01 | 79.7 | 2.49E+03 | 19.5 |
| PCB-32 24'6-TrCB | 19.95 | B | 1.1782 | 1.1775 | -0.8 | 9.83E+04 | 1.08 | 1.62 | 62.3 | 2.49E+03 | 12.1 |
| PCB-34 23'5'-TrCB | ND | | 0.8181 | | | | | 1.13 | ND | 3.77E+03 | 18.5 |
| PCB-23 235-TrCB | ND | | 0.8235 | | | | | 1.12 | ND | 3.77E+03 | 18.6 |
| PCB-26/29 23'5/245-TrCB | 21.49 | B C | 0.8347 | 0.8341 | -0.8 | 1.54E+05 | 0.95 | 1.13 | 77.1 | 3.77E+03 | 18.5 |
| PCB-25 23'4-TrCB | 21.70 | | 0.8426 | 0.8424 | -0.3 | 7.22E+04 | 1.03 | 1.38 | 29.7 | 3.77E+03 | 15.1 |
| PCB-31 24'5-TrCB | 21.98 | B EMPC | 0.8534 | 0.8532 | -0.3 | 2.85E+05 | 1.23 | 1.32 | 122 | 3.77E+03 | 15.8 |
| PCB-28/20 244'/233'-TrCB | 22.25 | B C | 0.8642 | 0.8638 | -0.5 | 4.13E+05 | 1.09 | 1.21 | 193 | 3.77E+03 | 17.2 |
| PCB-21/33 234/23'4'-TrCB | 22.46 | B C | 0.8710 | 0.8718 | +1.1 | 2.67E+05 | 1.09 | 1.18 | 128 | 3.77E+03 | 17.6 |
| PCB-22 234'-TrCB | 22.82 | EMPC | 0.8859 | 0.8860 | +0.1 | 1.21E+05 | 1.20 | 1.28 | 53.7 | 3.77E+03 | 16.4 |
| PCB-36 33'5-TrCB | 24.17 | | 0.9383 | 0.9383 | 0 | 5.35E+04 | 0.98 | 1.35 | 22.5 | 3.77E+03 | 15.4 |
| PCB-39 34'5-TrCB | ND | | 0.9508 | | | | | 1.23 | ND | 3.77E+03 | 17 |
| PCB-38 345-TrCB | 25.00 | J EMPC | 0.9709 | 0.9708 | -0.2 | 4.33E+04 | 1.80 | 1.24 | 19.9 | 3.77E+03 | 16.8 |
| PCB-35 33'4-TrCB | 25.41 | B EMPC | 0.9867 | 0.9867 | 0 | 1.32E+05 | 1.46 | 1.18 | 63.8 | 3.77E+03 | 17.7 |
| PCB-37 344'-TrCB | 25.77 | B EMPC | 1.0007 | 1.0007 | 0 | 1.40E+05 | 1.26 | 1.43 | 55.5 | 3.77E+03 | 14.6 |
| PCB-54 22'66'-TeCB | ND | | 1.0010 | | | | | 1.52 | ND | 1.10E+03 | 6.8 |
| PCB-50/53 22'46/22'56'-TeCB | 21.74 | J C | 0.9128 | 0.9125 | -0.4 | 3.68E+04 | 0.70 | 0.88 | 22.9 | 1.56E+03 | 9.87 |
| PCB-45 22'36'-TeCB | 22.35 | B | 0.9377 | 0.9378 | +0.1 | 3.70E+04 | 0.73 | 0.72 | 28.2 | 1.56E+03 | 12 |
| PCB-51 22'46'-TeCB | 22.41 | J B EMPC | 0.9403 | 0.9403 | 0 | 2.47E+04 | 1.21 | 0.92 | 14.8 | 1.56E+03 | 9.5 |
| PCB-46 22'36'-TeCB | ND | | 0.9496 | | | | | 0.71 | ND | 1.56E+03 | 12.2 |
| PCB-52 22'55'-TeCB | 23.85 | B | 1.0010 | 1.0010 | 0 | 3.72E+05 | 0.73 | 1.00 | 205 | 1.56E+03 | 8.75 |
| PCB-73 23'5'6-TeCB | ND | | 1.0061 | | | | | 1.23 | ND | 1.56E+03 | 7.12 |

Lab ID: B9770_21382_PCB_007-RJ

ACQ: 18-Sep-2024 18:07:56 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#5 Mill On

UTP: 20-Sep-2024 10:52:56 PSW

J-level: 20 pg Split: 2

Checkcode: 934-187-CN/C

Datafile: 240918S08

RPT: 23-Sep-2024 11:07 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|---------------------------------|-----------|----------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-43 22'35'-TeCB | ND | | 1.0099 | | | | | 0.85 | ND | 1.56E+03 | 10.2 |
| PCB-69/49 23'46/22'45'-TeCB | 24.28 | B C | 1.0177 | 1.0189 | +1.7 | 1.27E+05 | 0.79 | 1.01 | 69.2 | 1.56E+03 | 8.63 |
| PCB-48 22'45'-TeCB | 24.53 | J EMPC | 1.0295 | 1.0296 | +0.1 | 3.06E+04 | 0.63 | 0.86 | 19.6 | 1.56E+03 | 10.1 |
| PCB-44/47/65 ...-TeCB | 24.75 | B C | 1.0386 | 1.0387 | +0.1 | 2.85E+05 | 0.77 | 0.96 | 162 | 1.56E+03 | 9.04 |
| PCB-59/62/75 ...-TeCB | 25.03 | J EMPC C | 1.0499 | 1.0502 | +0.5 | 2.17E+04 | 0.51 | 1.11 | 10.8 | 1.56E+03 | 7.86 |
| PCB-42 22'34'-TeCB | 25.20 | | 1.0575 | 1.0576 | +0.2 | 4.09E+04 | 0.82 | 0.77 | 29.3 | 1.56E+03 | 11.3 |
| PCB-41 22'34'-TeCB | 25.53 | J EMPC | 1.0713 | 1.0715 | +0.3 | 1.80E+04 | 0.99 | 0.67 | 14.8 | 1.56E+03 | 13 |
| PCB-71/40 23'4'6/22'33'-TeCB | 25.63 | B C | 1.0755 | 1.0757 | +0.3 | 7.21E+04 | 0.84 | 0.95 | 41.9 | 1.56E+03 | 9.21 |
| PCB-64 234'6'-TeCB | 25.82 | B EMPC | 1.0836 | 1.0834 | -0.3 | 6.83E+04 | 0.92 | 1.15 | 32.7 | 1.56E+03 | 7.59 |
| PCB-72 23'55'-TeCB | ND | | 0.8404 | | | | | 1.21 | ND | 2.82E+03 | 13 |
| PCB-68 23'45'-TeCB | ND | | 0.8483 | | | | | 1.16 | ND | 2.82E+03 | 13.6 |
| PCB-57 233'5'-TeCB | ND | | 0.8601 | | | | | 1.17 | ND | 2.82E+03 | 13.5 |
| PCB-58 233'5'-TeCB | ND | | 0.8668 | | | | | 1.32 | ND | 2.82E+03 | 11.9 |
| PCB-67 23'45'-TeCB | ND | | 0.8713 | | | | | 1.34 | ND | 2.82E+03 | 11.8 |
| PCB-63 234'5'-TeCB | ND | | 0.8785 | | | | | 1.13 | ND | 2.82E+03 | 14 |
| PCB-61/70/74/76 ...-TeCB | 28.03 | B C | 0.8878 | 0.8878 | 0 | 3.84E+05 | 0.83 | 1.18 | 178 | 2.82E+03 | 13.3 |
| PCB-66 23'44'-TeCB | 28.30 | B | 0.8967 | 0.8966 | -0.2 | 1.53E+05 | 0.72 | 1.27 | 66.7 | 2.82E+03 | 12.5 |
| PCB-55 233'4'-TeCB | ND | | 0.9016 | | | | | 1.26 | ND | 2.82E+03 | 12.5 |
| PCB-56 233'4'-TeCB | 28.88 | EMPC | 0.9155 | 0.9149 | -1.0 | 4.80E+04 | 0.93 | 1.23 | 21.5 | 2.82E+03 | 12.8 |
| PCB-60 2344'-TeCB | 29.08 | J EMPC | 0.9214 | 0.9210 | -0.7 | 3.43E+04 | 0.59 | 1.05 | 18 | 2.82E+03 | 15 |
| PCB-80 33'55'-TeCB | ND | | 0.9309 | | | | | 1.24 | ND | 2.82E+03 | 12.7 |
| PCB-79 33'45'-TeCB | ND | | 0.9732 | | | | | 1.40 | ND | 2.82E+03 | 11.2 |
| PCB-78 33'45'-TeCB | ND | | 0.9884 | | | | | 1.16 | ND | 2.82E+03 | 13.6 |
| PCB-104 22'466'-PeCB | ND | | 1.0009 | | | | | 1.46 | ND | 6.17E+02 | 4.48 |
| PCB-96 22'366'-PeCB | ND | | 1.0147 | | | | | 1.21 | ND | 6.17E+02 | 5.42 |
| PCB-103 22'45'6'-PeCB | ND | | 0.8968 | | | | | 0.76 | ND | 1.24E+03 | 10.3 |
| PCB-94 22'356'-PeCB | ND | | 0.9036 | | | | | 0.63 | ND | 1.24E+03 | 12.4 |
| PCB-95 22'35'6'-PeCB | 27.28 | B | 0.9167 | 0.9167 | 0 | 2.83E+05 | 0.70 | 0.72 | 231 | 1.24E+03 | 10.8 |
| PCB-100/93 22'44'6/22'356'-PeCB | ND | C | 0.9229 | | | | | 0.68 | ND | 1.24E+03 | 11.6 |
| PCB-102 22'456'-PeCB | ND | | 0.9269 | | | | | 0.82 | ND | 1.24E+03 | 9.59 |
| PCB-98 22'34'6'-PeCB | ND | | 0.9292 | | | | | 0.80 | ND | 1.24E+03 | 9.82 |
| PCB-88 22'346'-PeCB | ND | | 0.9390 | | | | | 0.62 | ND | 1.24E+03 | 12.6 |
| PCB-91 22'34'6'-PeCB | 28.03 | EMPC | 0.9416 | 0.9418 | +0.3 | 2.85E+04 | 0.76 | 0.80 | 21.2 | 1.24E+03 | 9.85 |
| PCB-84 22'33'6'-PeCB | 28.22 | B EMPC | 0.9486 | 0.9484 | -0.3 | 4.47E+04 | 0.48 | 0.62 | 42.9 | 1.24E+03 | 12.7 |
| PCB-89 22'346'-PeCB | ND | | 0.9623 | | | | | 0.74 | ND | 1.24E+03 | 10.5 |
| PCB-121 23'45'6'-PeCB | ND | | 0.9725 | | | | | 1.10 | ND | 1.24E+03 | 7.14 |
| PCB-92 22'355'-PeCB | 29.29 | B EMPC | 0.9839 | 0.9841 | +0.4 | 4.30E+04 | 0.75 | 0.70 | 36.2 | 1.24E+03 | 11.2 |
| PCB-113/90/101 ...-PeCB | 29.78 | B C | 0.9999 | 1.0008 | +1.6 | 3.43E+05 | 0.60 | 0.81 | 250 | 1.24E+03 | 9.67 |
| PCB-83 22'33'5'-PeCB | ND | | 1.0148 | | | | | 0.59 | ND | 1.24E+03 | 13.2 |
| PCB-99 22'44'5'-PeCB | 30.26 | B | 1.0174 | 1.0168 | -1.1 | 1.25E+05 | 0.55 | 0.95 | 77.8 | 1.24E+03 | 8.23 |
| PCB-112 233'56'-PeCB | ND | | 1.0210 | | | | | 1.18 | ND | 1.24E+03 | 6.63 |

Lab ID: B9770_21382_PCB_007-RJ

ACQ: 18-Sep-2024 18:07:56 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Test#5 Mill On

UTP: 20-Sep-2024 10:52:56 PSW

J-level: 20 pg Split: 2

Checkcode: 934-187-CN/C

Datafile: 240918S08

RPT: 23-Sep-2024 11:07 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------------|-----------|----------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-109/119/86/97/125...-PeCB | 30.77 | B C | 1.0327 | 1.0341 | +2.6 | 1.82E+05 | 0.53 | 0.87 | 123 | 1.24E+03 | 8.98 |
| PCB-117 234'56-PeCB | ND | | 1.0504 | | | | | 0.96 | ND | 1.24E+03 | 8.19 |
| PCB-116/85 23456/22'344'-PeCB | ND | C | 1.0533 | | | | | 0.83 | ND | 1.24E+03 | 9.43 |
| PCB-110 233'4'6-PeCB | 31.48 | B | 1.0579 | 1.0579 | 0 | 2.73E+05 | 0.61 | 1.11 | 145 | 1.24E+03 | 7.05 |
| PCB-115 2344'6-PeCB | ND | | 1.0600 | | | | | 1.11 | ND | 1.24E+03 | 7.04 |
| PCB-82 22'33'4-PeCB | 31.76 | J EMPC | 1.0675 | 1.0674 | -0.2 | 1.74E+04 | 0.46 | 0.73 | 14.1 | 1.24E+03 | 10.7 |
| PCB-111 233'55'-PeCB | ND | | 1.0770 | | | | | 1.02 | ND | 1.24E+03 | 7.72 |
| PCB-120 23'455'-PeCB | ND | | 1.0902 | | | | | 1.24 | ND | 1.24E+03 | 6.34 |
| PCB-108/124 ...-PeCB | ND | C | 0.9915 | | | | | 1.00 | ND | 1.24E+03 | 7.84 |
| PCB-107 233'4'5-PeCB | 33.63 | J B | 0.9975 | 0.9976 | +0.2 | 1.58E+04 | 0.65 | 1.12 | 8.34 | 1.24E+03 | 7.02 |
| PCB-106 233'45-PeCB | ND | | 1.0038 | | | | | 1.07 | ND | 1.24E+03 | 7.33 |
| PCB-122 233'4'5'-PeCB | ND | | 1.0096 | | | | | 0.84 | ND | 1.24E+03 | 10.1 |
| PCB-127 33'455'-PeCB | ND | | 1.0352 | | | | | 1.09 | ND | 1.24E+03 | 7.56 |
| PCB-155 22'44'66'-HxCB | ND | | 1.0007 | | | | | 1.36 | ND | 7.19E+02 | 3.95 |
| PCB-152 22'3566'-HxCB | ND | | 1.0075 | | | | | 1.22 | ND | 7.19E+02 | 4.4 |
| PCB-150 22'34'66'-HxCB | ND | | 1.0119 | | | | | 1.07 | ND | 7.19E+02 | 5.02 |
| PCB-136 22'33'66'-HxCB | 30.24 | B | 1.0230 | 1.0231 | +0.2 | 1.20E+05 | 1.19 | 1.01 | 98 | 7.19E+02 | 5.28 |
| PCB-145 22'3466'-HxCB | ND | | 1.0313 | | | | | 1.16 | ND | 7.19E+02 | 4.61 |
| PCB-148 22'34'56'-HxCB | ND | | 1.0735 | | | | | 1.07 | ND | 7.19E+02 | 6.67 |
| PCB-151/135 ...-HxCB | 32.26 | B C | 1.0919 | 1.0913 | -1.2 | 2.22E+05 | 1.36 | 1.06 | 197 | 7.19E+02 | 6.77 |
| PCB-154 22'44'56'-HxCB | ND | | 1.0979 | | | | | 1.15 | ND | 7.19E+02 | 6.2 |
| PCB-144 22'345'6-HxCB | 32.73 | B | 1.1074 | 1.1074 | 0 | 3.28E+04 | 1.42 | 1.06 | 29 | 7.19E+02 | 6.76 |
| PCB-147/149 ...-HxCB | 33.04 | B C | 1.1177 | 1.1178 | +0.2 | 4.04E+05 | 1.24 | 1.12 | 338 | 7.19E+02 | 6.41 |
| PCB-134 22'33'56-HxCB | ND | | 1.1238 | | | | | 0.85 | ND | 7.19E+02 | 8.43 |
| PCB-143 22'3456'-HxCB | ND | | 1.1264 | | | | | 1.03 | ND | 7.19E+02 | 6.96 |
| PCB-139/140 ...-HxCB | ND | C | 1.1348 | | | | | 1.10 | ND | 7.19E+02 | 6.48 |
| PCB-131 22'33'46-HxCB | ND | | 1.1412 | | | | | 0.98 | ND | 7.19E+02 | 7.31 |
| PCB-142 22'3456-HxCB | ND | | 1.1457 | | | | | 0.97 | ND | 7.19E+02 | 7.4 |
| PCB-132 22'33'46'-HxCB | 34.13 | B | 1.1544 | 1.1546 | +0.4 | 9.63E+04 | 1.34 | 1.00 | 89.8 | 7.19E+02 | 7.14 |
| PCB-133 22'33'55'-HxCB | ND | | 1.1672 | | | | | 1.10 | ND | 7.19E+02 | 6.53 |
| PCB-165 233'55'6-HxCB | ND | | 0.9512 | | | | | 1.29 | ND | 7.19E+02 | 5.54 |
| PCB-146 22'34'55'-HxCB | 35.05 | B EMPC | 0.9571 | 0.9570 | -0.2 | 4.57E+04 | 1.52 | 1.24 | 34.5 | 7.19E+02 | 5.78 |
| PCB-161 233'45'6-HxCB | ND | | 0.9601 | | | | | 1.49 | ND | 7.19E+02 | 4.79 |
| PCB-153/168 ...-HxCB | 35.57 | B C | 0.9718 | 0.9712 | -1.3 | 3.64E+05 | 1.30 | 1.34 | 254 | 7.19E+02 | 5.35 |
| PCB-141 22'3455'-HxCB | 35.76 | B | 0.9762 | 0.9763 | +0.2 | 9.97E+04 | 1.08 | 1.01 | 92.2 | 7.19E+02 | 7.07 |
| PCB-130 22'33'45'-HxCB | ND | | 0.9857 | | | | | 0.89 | ND | 7.19E+02 | 8.04 |
| PCB-137 22'344'5-HxCB | ND | | 0.9909 | | | | | 0.97 | ND | 7.19E+02 | 7.35 |
| PCB-164 233'4'5'6-HxCB | ND | | 0.9935 | | | | | 1.52 | ND | 7.19E+02 | 4.7 |
| PCB-163/138/129 ...-HxCB | 36.65 | B C | 1.0011 | 1.0005 | -1.3 | 3.04E+05 | 1.35 | 1.08 | 262 | 7.19E+02 | 6.6 |
| PCB-160 233'456-HxCB | ND | | 1.0045 | | | | | 1.26 | ND | 7.19E+02 | 5.67 |
| PCB-158 233'44'6-HxCB | 36.97 | J B EMPC | 1.0096 | 1.0095 | -0.2 | 2.52E+04 | 2.02 | 1.45 | 16.3 | 7.19E+02 | 4.93 |

Lab ID: B9770_21382_PCB_007-RJ

ACQ: 18-Sep-2024 18:07:56 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

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J-level: 20 pg Split: 2

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RPT: 23-Sep-2024 11:07 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-------------------|----------|-------------------|------------------|-----------------|---------------------|-----------------|-----------------|-------------------|-------------------|-----------------|
| PCB-128/166 ...-HxCB | 37.74 | J EMPC C | 0.9635 | 0.9645 | +2.3 | 2.63E+04 | 1.46 | 0.90 | 18.1 | 8.69E+02 | 6.06 |
| PCB-159 233'455'-HxCB | ND | | 0.9840 | | | | | 1.19 | ND | 8.69E+02 | 4.58 |
| PCB-162 233'4'55'-HxCB | ND | | 0.9902 | | | | | 1.01 | ND | 8.69E+02 | 5.37 |
| PCB-188 22'34'566'-HpCB | ND | | 1.0006 | | | | | 1.55 | ND | 5.20E+02 | 3.92 |
| PCB-179 22'33'566'-HpCB | 34.74 | B | 1.0095 | 1.0094 | -0.2 | 5.74E+04 | 1.00 | 1.32 | 52.4 | 5.20E+02 | 4.58 |
| PCB-184 22'344'66'-HpCB | ND | | 1.0219 | | | | | 1.26 | ND | 5.20E+02 | 4.8 |
| PCB-176 22'33'466'-HpCB | 35.48 | J EMPC | 1.0312 | 1.0309 | -0.6 | 1.54E+04 | 1.26 | 1.15 | 16.1 | 5.20E+02 | 5.25 |
| PCB-186 22'34566'-HpCB | ND | | 1.0427 | | | | | 1.37 | ND | 5.20E+02 | 4.41 |
| PCB-178 22'33'55'6'-HpCB | 37.01 | | 1.0752 | 1.0753 | +0.2 | 1.90E+04 | 0.89 | 0.92 | 24.9 | 5.20E+02 | 6.56 |
| PCB-175 22'33'45'6'-HpCB | ND | | 1.0908 | | | | | 0.99 | ND | 1.26E+03 | 9.21 |
| PCB-187 22'34'55'6'-HpCB | 37.77 | B | 1.0974 | 1.0973 | -0.2 | 1.71E+05 | 1.08 | 1.22 | 102 | 1.26E+03 | 7.44 |
| PCB-182 22'344'56'-HpCB | ND | | 1.1024 | | | | | 1.18 | ND | 1.26E+03 | 7.7 |
| PCB-183 22'344'5'6'-HpCB | 38.29 | B | 1.1124 | 1.1125 | +0.2 | 8.70E+04 | 1.06 | 1.13 | 56 | 1.26E+03 | 8.02 |
| PCB-185 22'3455'6'-HpCB | 38.40 | J EMPC | 1.1152 | 1.1156 | +0.9 | 1.31E+04 | 1.26 | 0.93 | 10.2 | 1.26E+03 | 9.73 |
| PCB-174 22'33'456'-HpCB | 38.50 | B | 1.1187 | 1.1186 | -0.2 | 1.03E+05 | 1.08 | 1.03 | 72.6 | 1.26E+03 | 8.81 |
| PCB-177 22'33'45'6'-HpCB | 38.87 | | 1.1296 | 1.1293 | -0.7 | 5.47E+04 | 1.11 | 1.04 | 38.2 | 1.26E+03 | 8.72 |
| PCB-181 22'344'56'-HpCB | ND | | 1.1391 | | | | | 1.13 | ND | 1.26E+03 | 8.08 |
| PCB-171/173 ...-HpCB | ND | C | 1.1447 | | | | | 0.94 | ND | 1.26E+03 | 9.65 |
| PCB-172 22'33'455'-HpCB | ND | | 0.9065 | | | | | 1.00 | ND | 1.26E+03 | 9.13 |
| PCB-192 233'455'6'-HpCB | ND | | 0.9118 | | | | | 1.43 | ND | 1.26E+03 | 6.35 |
| PCB-180/193 ...-HpCB | 41.27 | B EMPC C | 0.9181 | 0.9186 | +1.2 | 1.32E+05 | 0.88 | 1.17 | 82.8 | 1.26E+03 | 7.79 |
| PCB-191 233'44'5'6'-HpCB | ND | | 0.9253 | | | | | 1.27 | ND | 1.26E+03 | 7.19 |
| PCB-170 22'33'44'5'-HpCB | 42.35 | B | 0.9427 | 0.9427 | 0 | 3.13E+04 | 1.12 | 1.09 | 25.3 | 1.26E+03 | 10.8 |
| PCB-190 233'44'56'-HpCB | ND | | 0.9525 | | | | | 1.50 | ND | 1.26E+03 | 7.79 |
| PCB-202 22'33'55'66'-OcCB | 38.96 | J EMPC | 1.0005 | 1.0007 | +0.5 | 9.95E+03 | 0.47 | 1.32 | 6.01 | 5.47E+02 | 3.36 |
| PCB-201 22'33'45'66'-OcCB | ND | | 1.0204 | | | | | 1.00 | ND | 5.47E+02 | 4.45 |
| PCB-204 22'344'566'-OcCB | ND | | 1.0349 | | | | | 1.13 | ND | 5.47E+02 | 3.93 |
| PCB-197 22'33'44'66'-OcCB | ND | | 1.0399 | | | | | 1.04 | ND | 5.47E+02 | 4.26 |
| PCB-200 22'33'4566'-OcCB | 40.59 | J | 1.0428 | 1.0424 | -1.0 | 1.27E+04 | 1.01 | 1.05 | 9.61 | 5.47E+02 | 4.21 |
| PCB-198/199 ...-OcCB | 42.93 | J EMPC C | 1.1020 | 1.1025 | +1.3 | 2.09E+04 | 0.74 | 0.89 | 18.8 | 5.47E+02 | 5 |
| PCB-196 22'33'44'56'-OcCB | ND | | 1.1166 | | | | | 0.83 | ND | 5.47E+02 | 5.37 |
| PCB-203 22'344'55'6'-OcCB | ND | | 1.1208 | | | | | 0.99 | ND | 5.47E+02 | 4.46 |
| PCB-195 22'33'44'56'-OcCB | 44.77 | J EMPC | 0.9499 | 0.9500 | +0.3 | 8.88E+03 | 1.58 | 0.82 | 7.27 | 5.98E+02 | 5.72 |
| PCB-194 22'33'44'55'-OcCB | ND | | 0.9914 | | | | | 0.85 | ND | 5.98E+02 | 5.47 |
| PCB-205 233'44'55'6'-OcCB | ND | | 1.0004 | | | | | 1.12 | ND | 5.98E+02 | 4.17 |
| PCB-208 22'33'455'66'-NoCB | ND | | 1.0005 | | | | | 1.11 | ND | 2.37E+03 | 15.8 |
| PCB-207 22'33'44'566'-NoCB | ND | | 1.0180 | | | | | 0.91 | ND | 2.37E+03 | 19.2 |
| PCB-206 22'33'44'55'6'-NoCB | ND | | 1.0005 | | | | | 1.04 | ND | 2.37E+03 | 27.6 |
| AS PCB-32 FS | 19.929 | | 1.2584 | 1.2575 | -1.1 | 6.24E+06 | 1.04 | 0.77 | 76.9 % | 50% | 150% |
| AS PCB-97 FS | 30.701 | | 1.0317 | 1.0317 | 0 | 4.17E+06 | 1.48 | 0.86 | 80.6 % | 50% | 150% |
| AS PCB-159 NR | 38.493 | | 1.0511 | 1.051 | -0.2 | 7.66E+06 | 1.07 | 1.57 | 85.4 % | 50% | 150% |
| | | | | | | | | | | 70% | 130% |

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_007-RJ.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q scc: 934-187

Peak annotation: Areas, Centroids
PKD: n/a Printed: 20-Sep-2024 11:06 Page 1 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_007-RJ.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8366, 0276 scc: 934-187

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 2 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



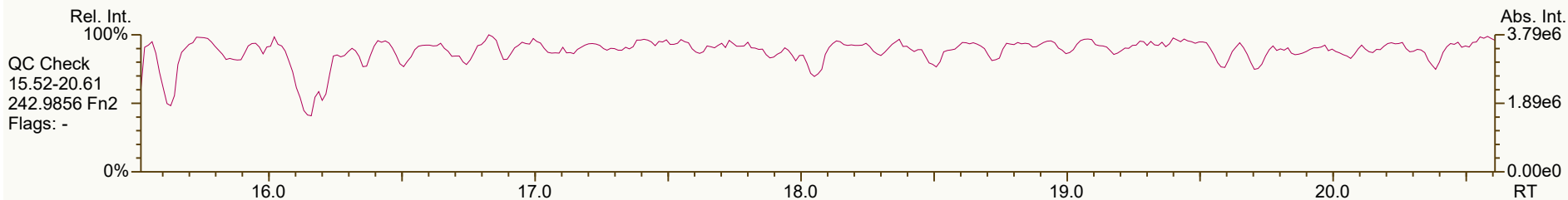
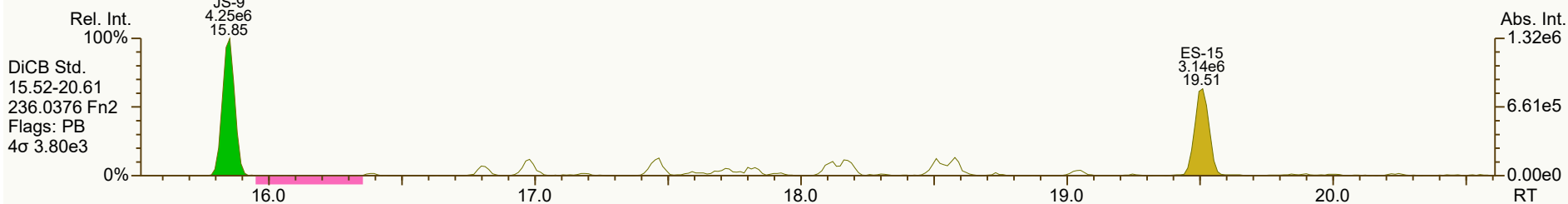
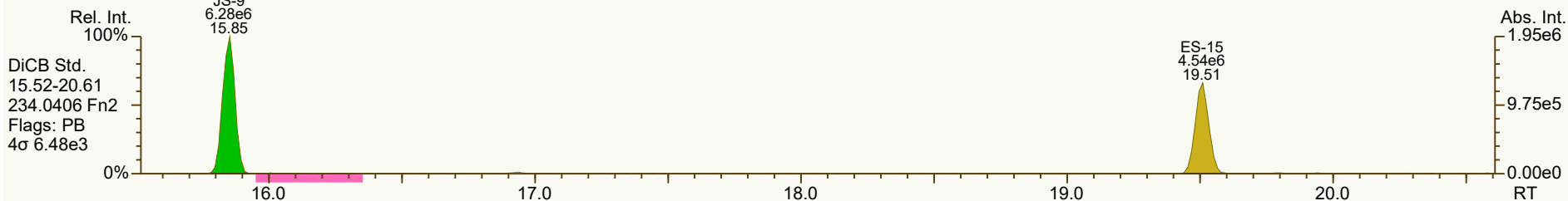
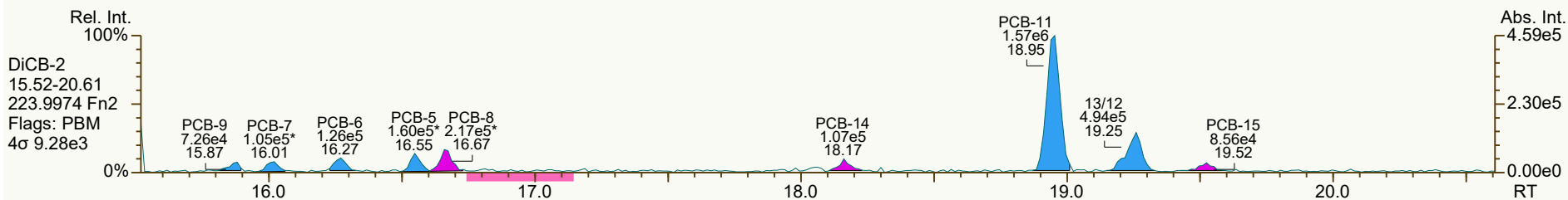
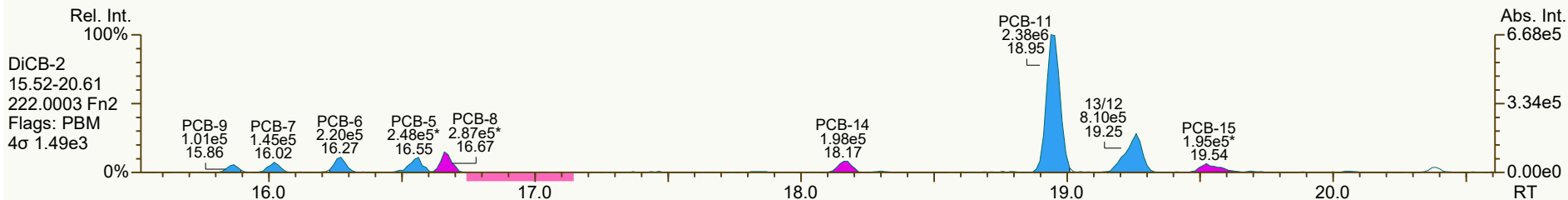
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2114, 4903 scc: 934-187

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 3 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



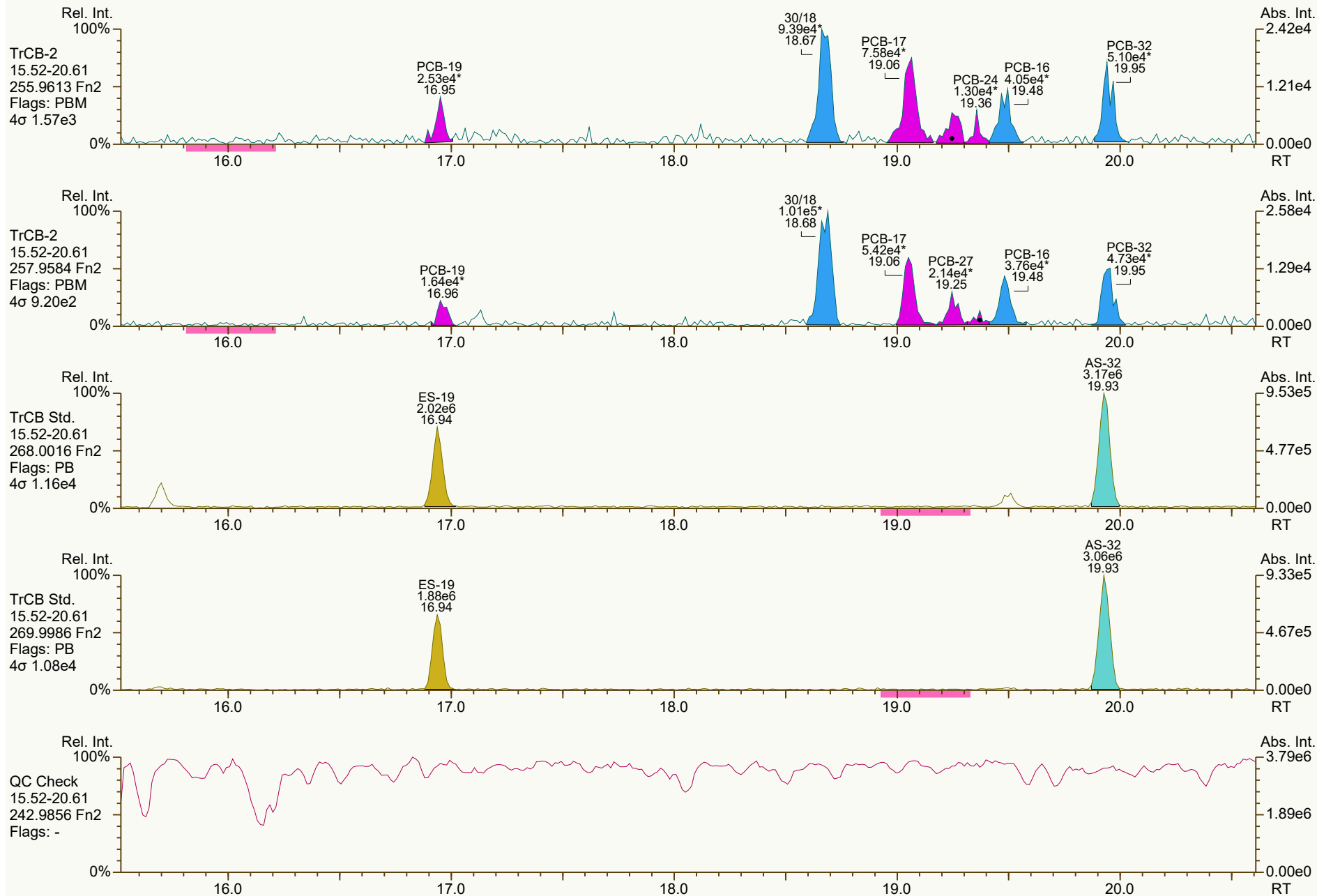
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6218, 5424 scc: 934-187

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 4 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



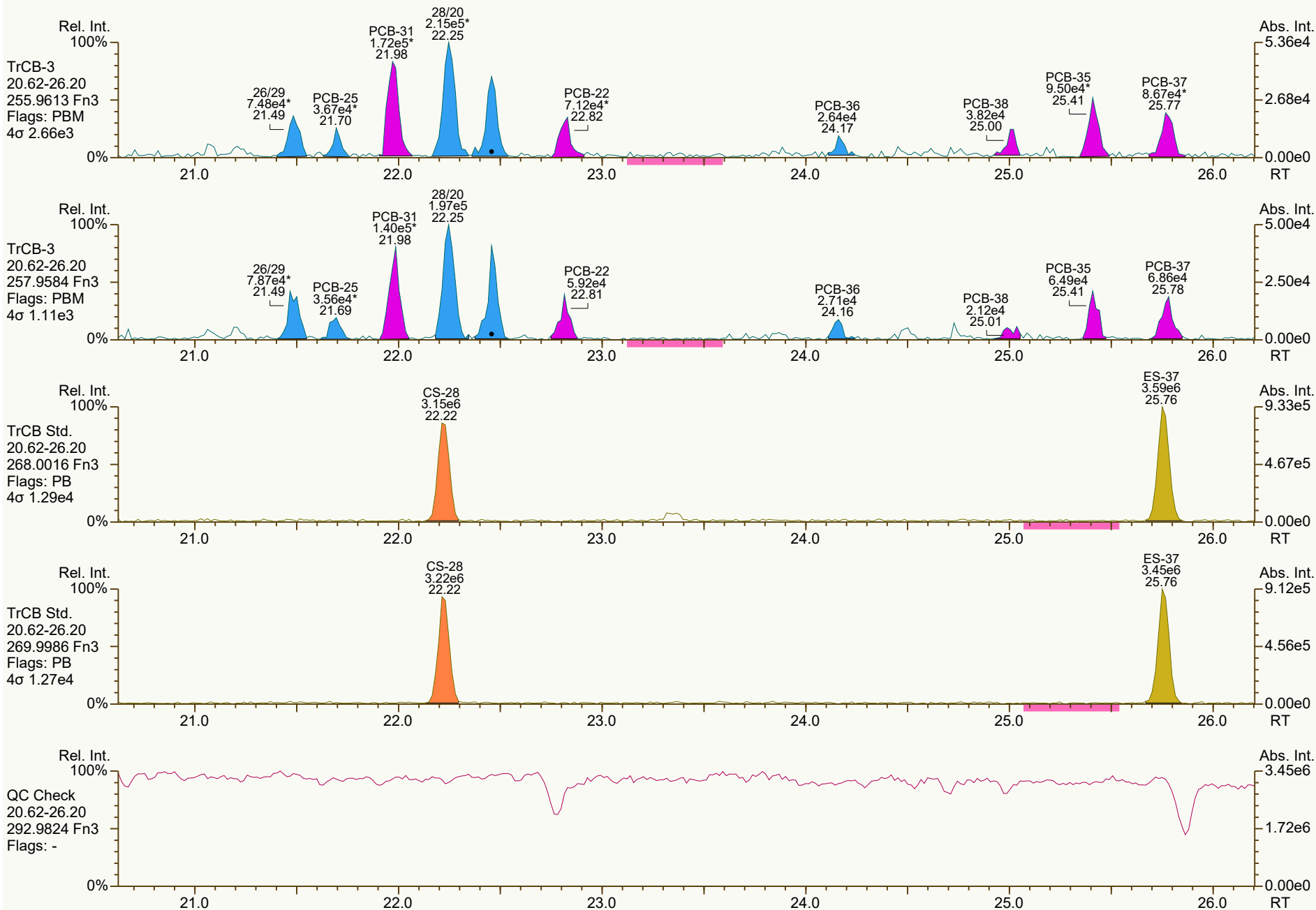
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6735, 3089 scc: 934-187

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 5 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



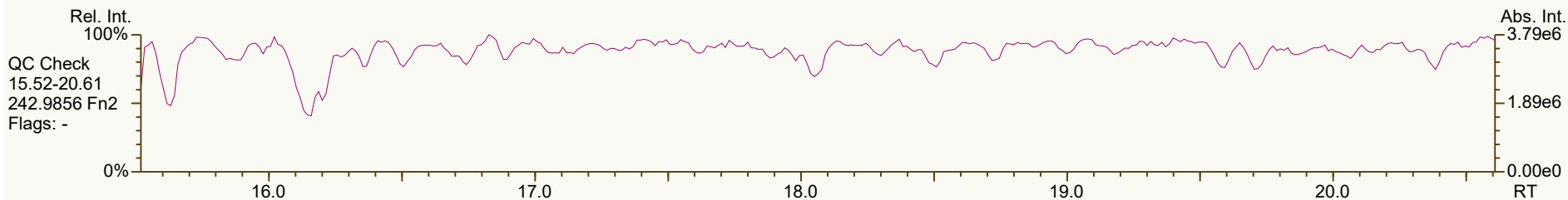
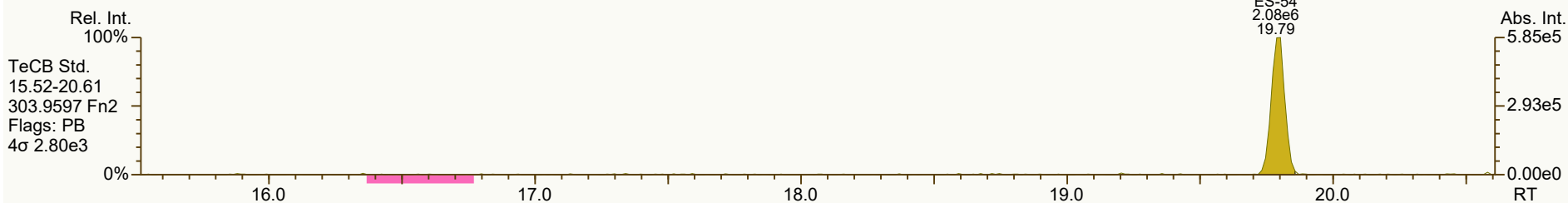
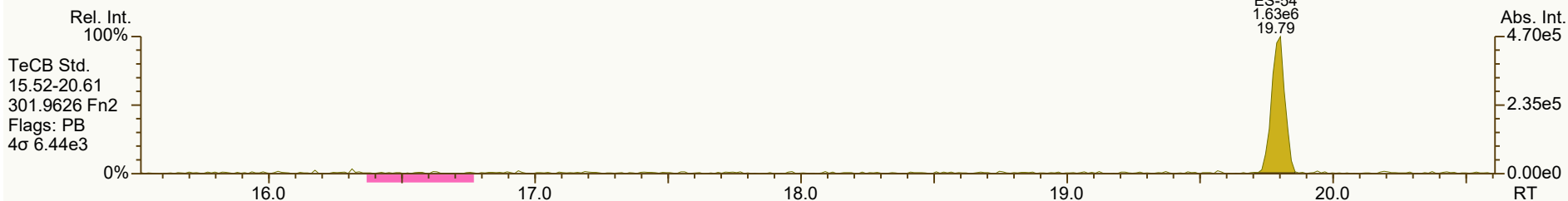
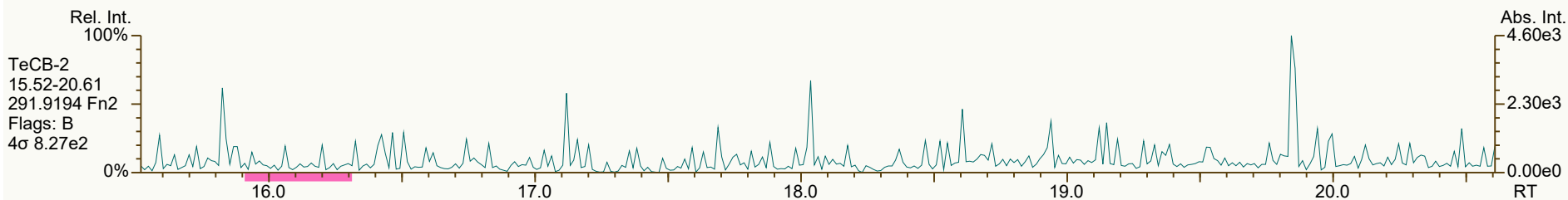
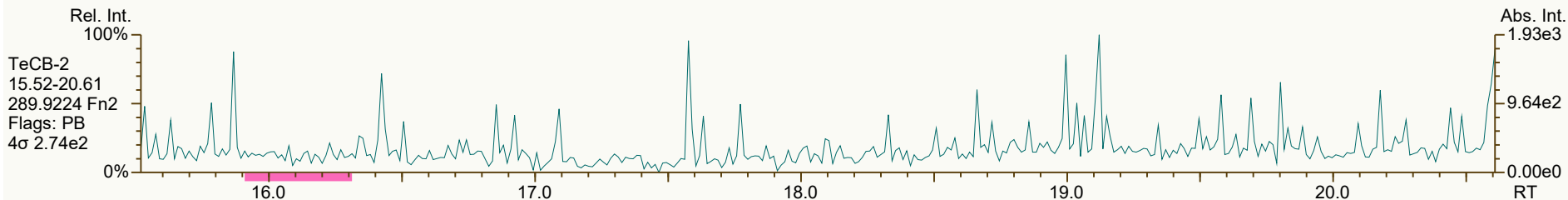
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4057, 6464 scc: 934-187

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 6 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



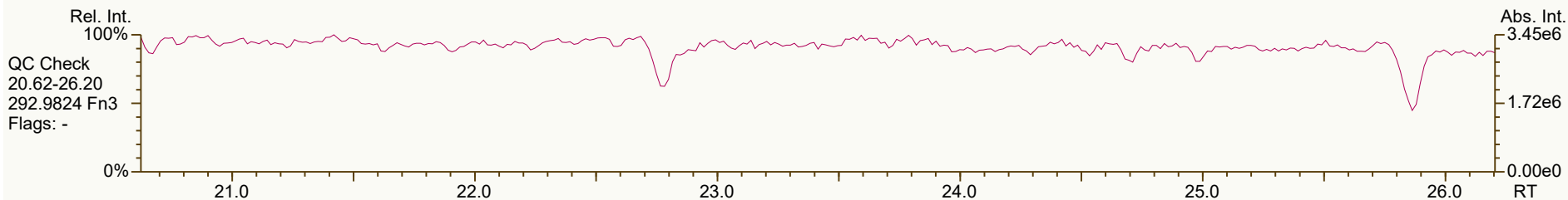
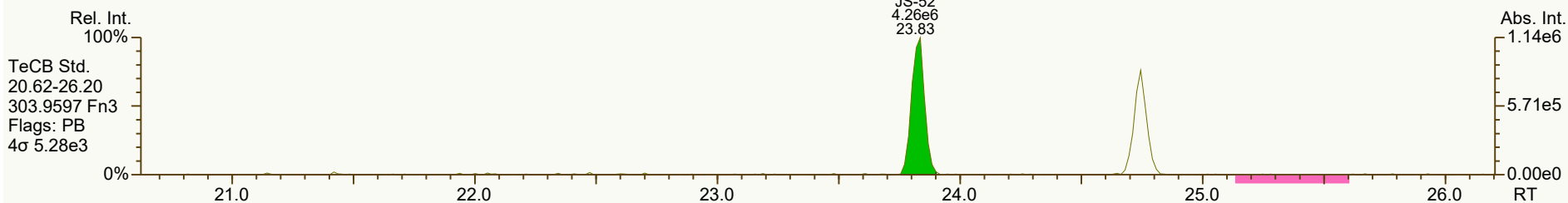
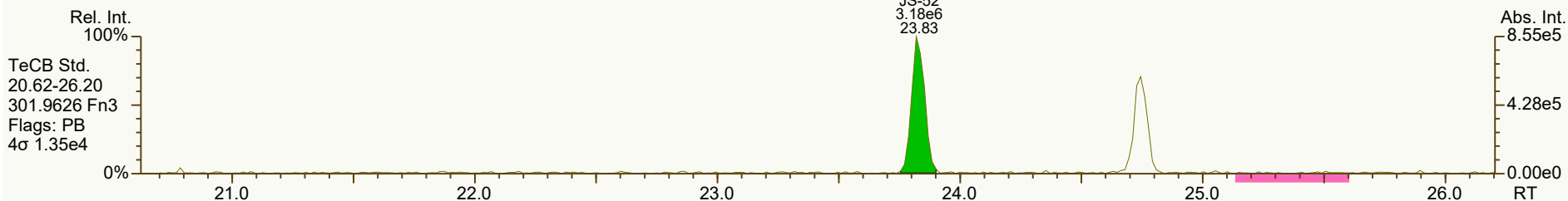
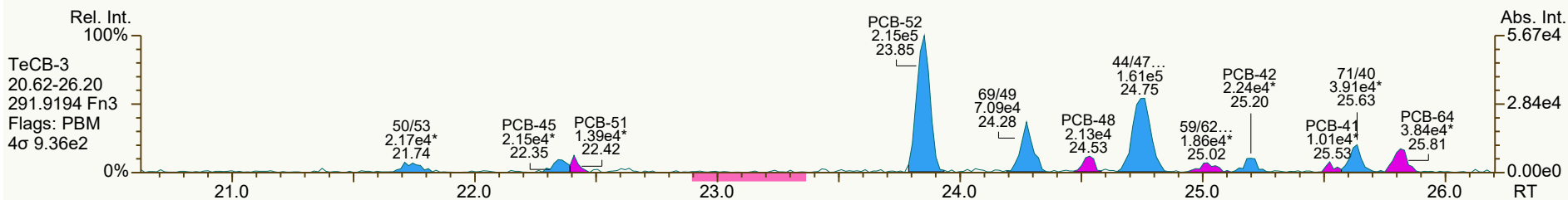
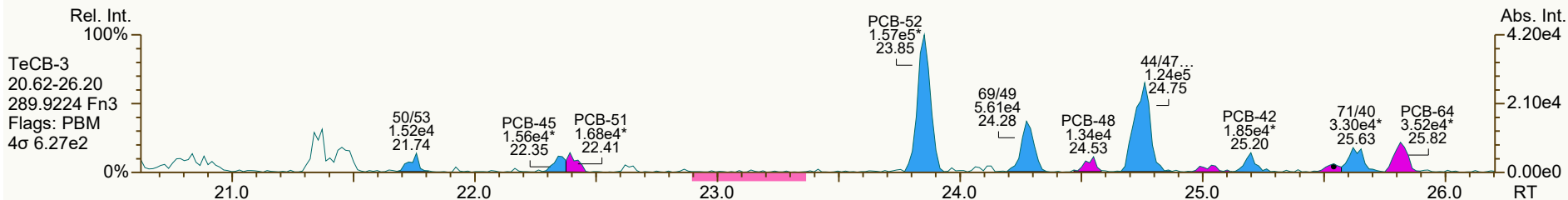
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 3161, 9462 scc: 934-187

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 7 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



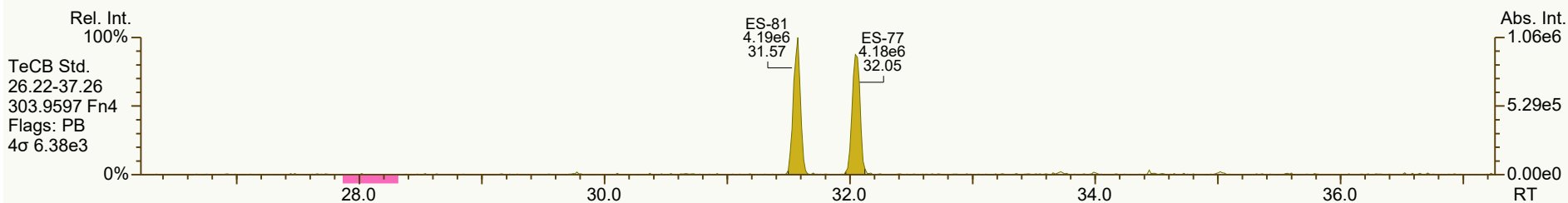
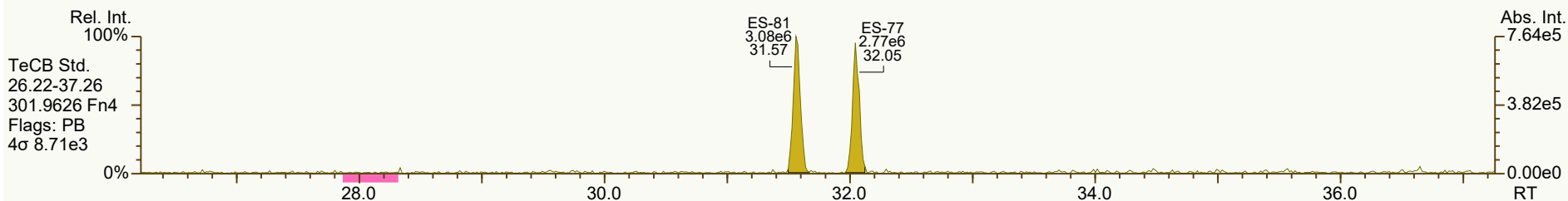
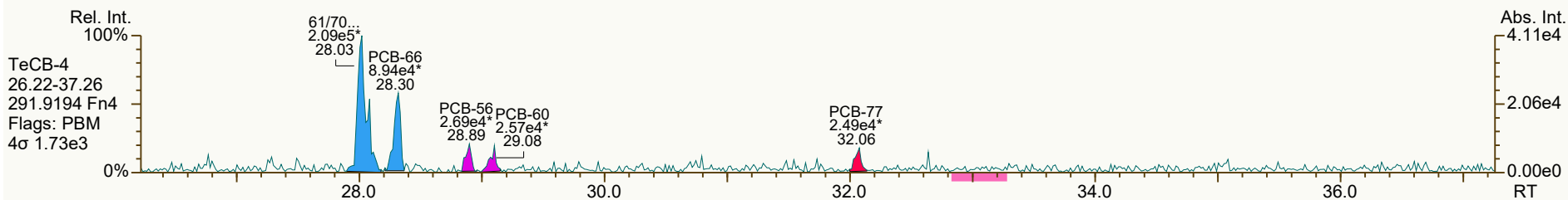
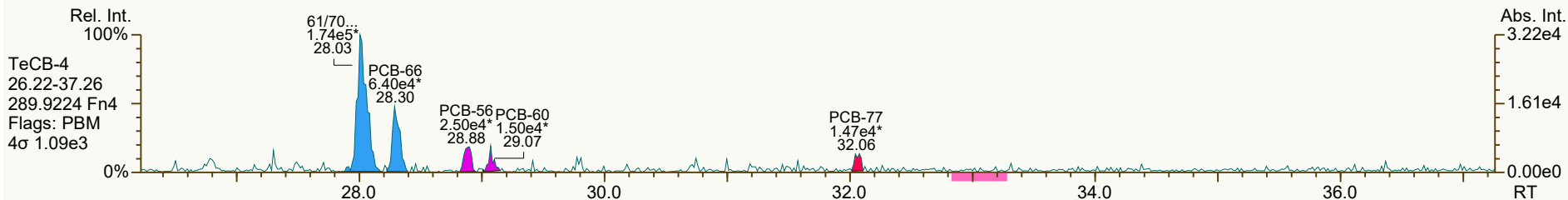
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 8 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



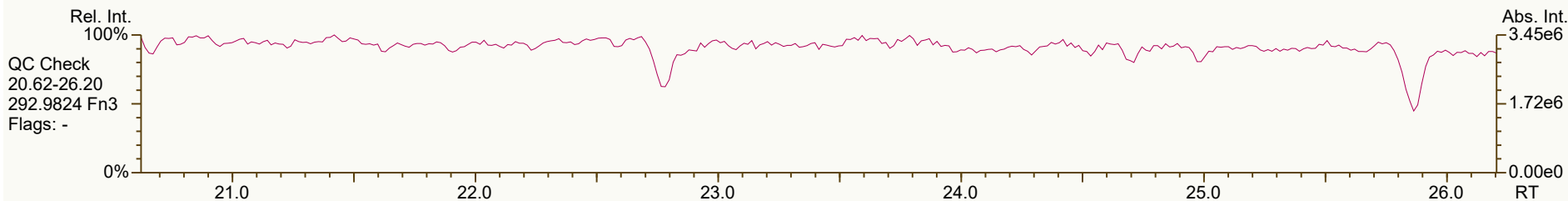
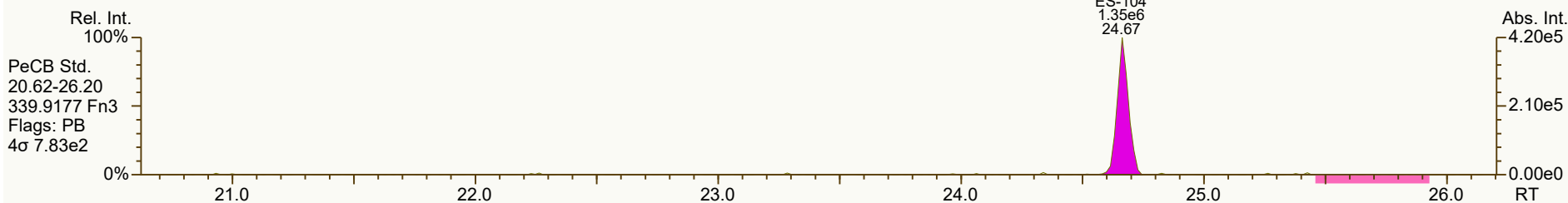
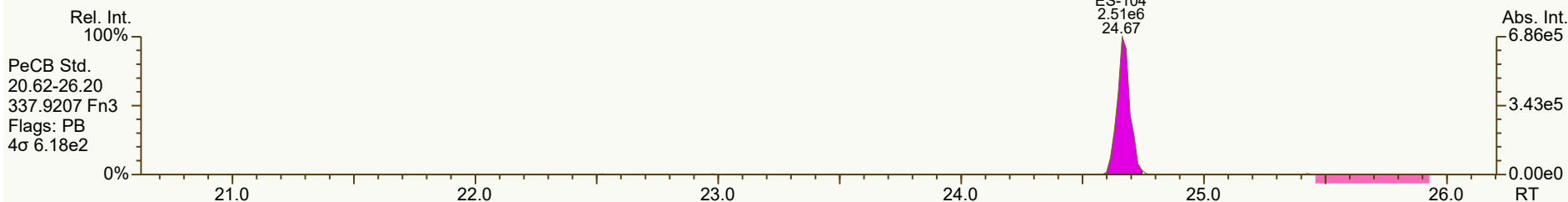
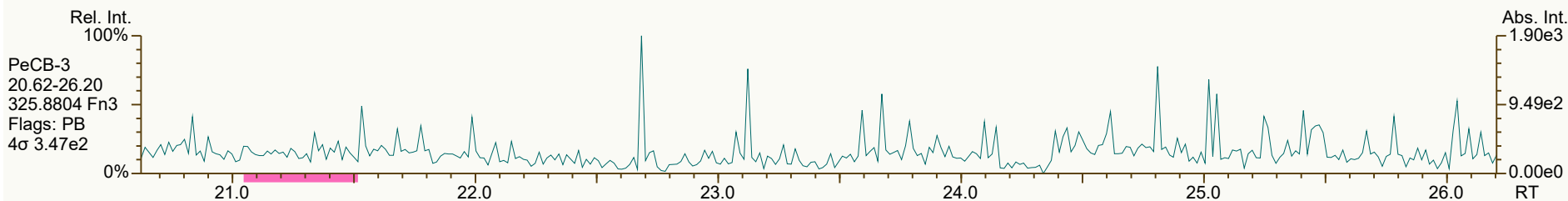
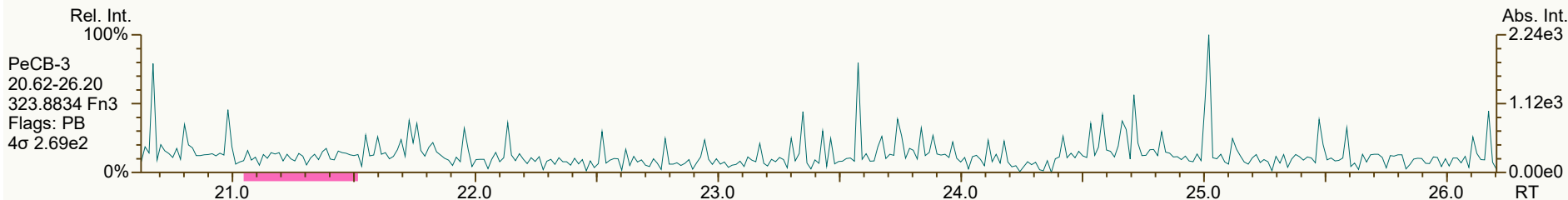
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7316, 7408 scc: 934-187

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 9 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



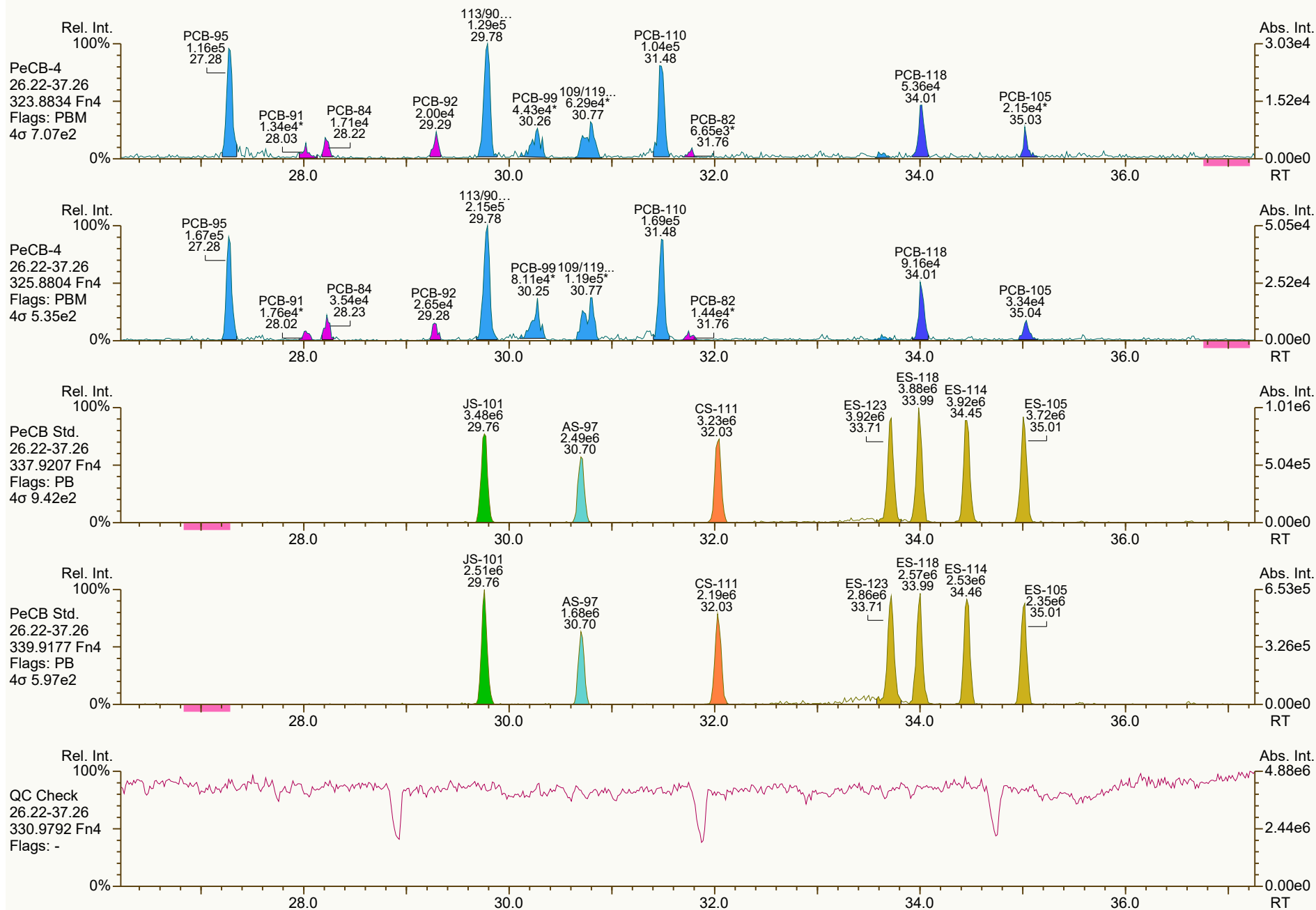
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2068, 9862 scc: 934-187

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:30 (PSW) Printed: 20-Sep-2024 11:06 Page 10 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



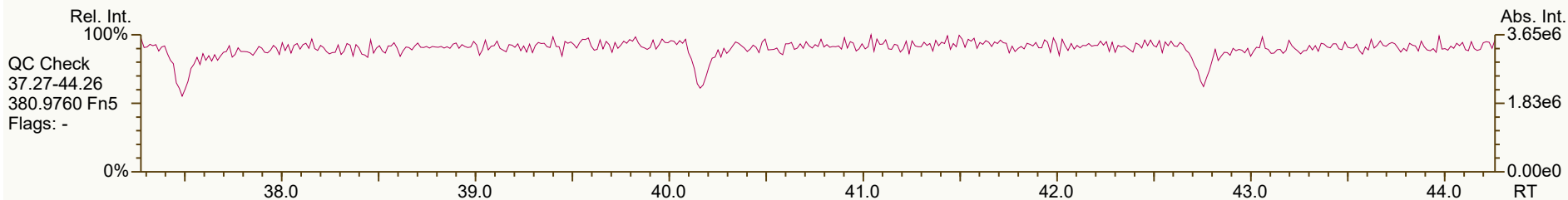
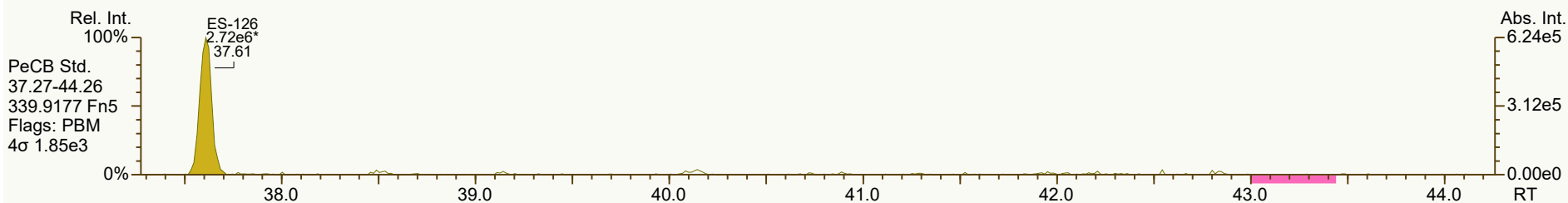
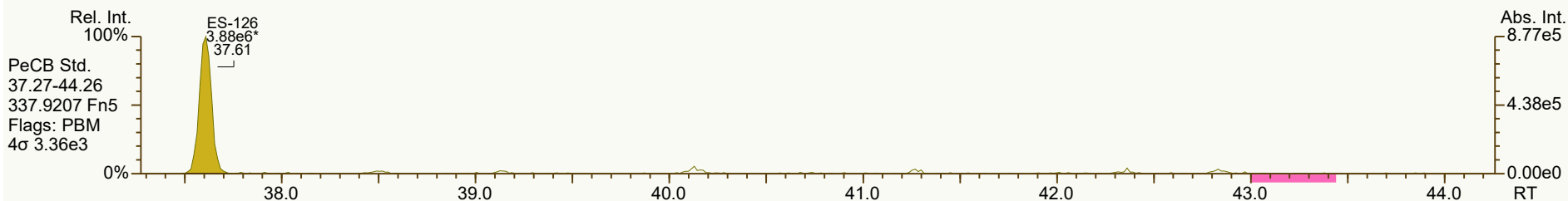
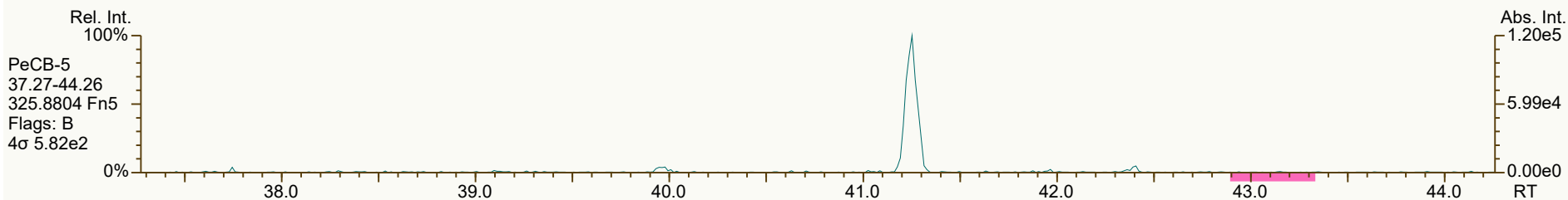
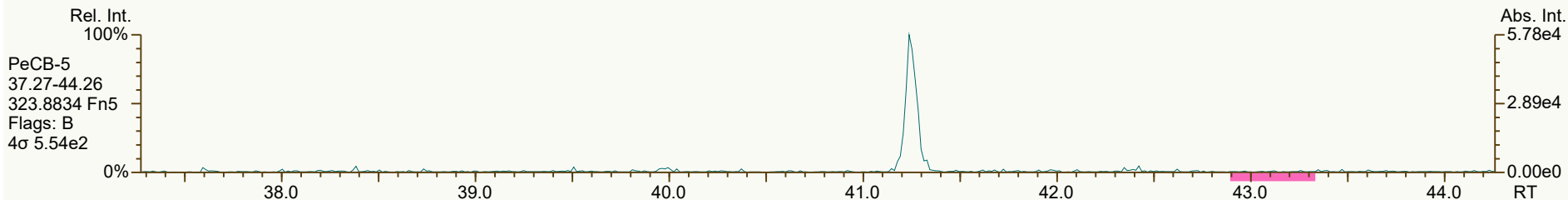
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 11 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 12 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



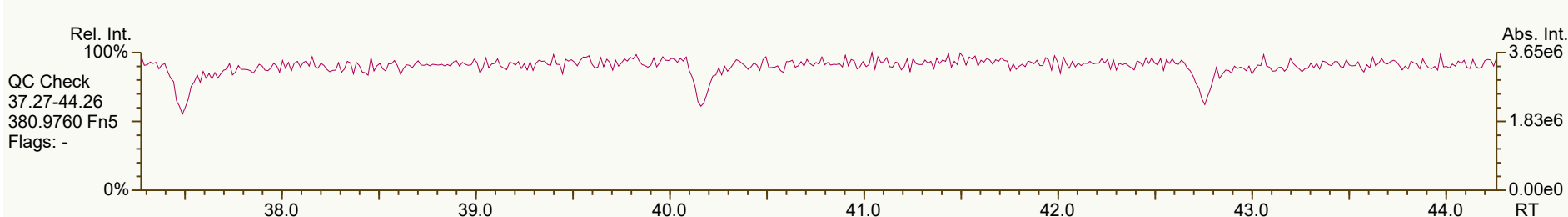
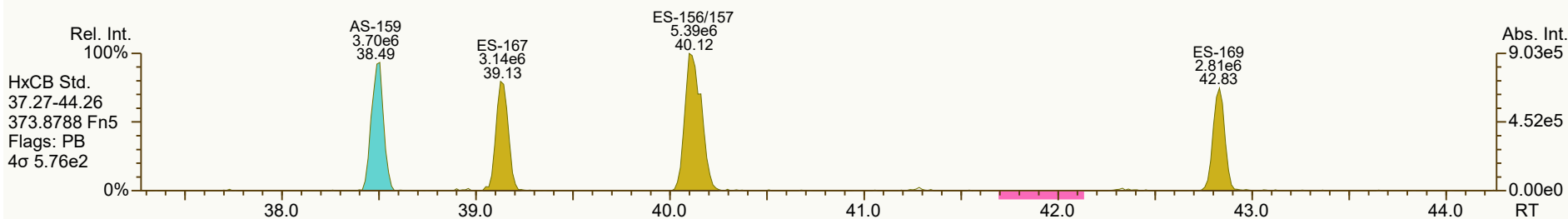
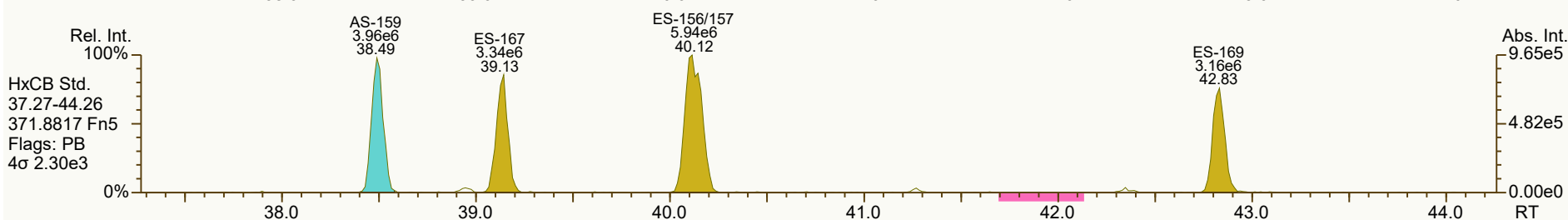
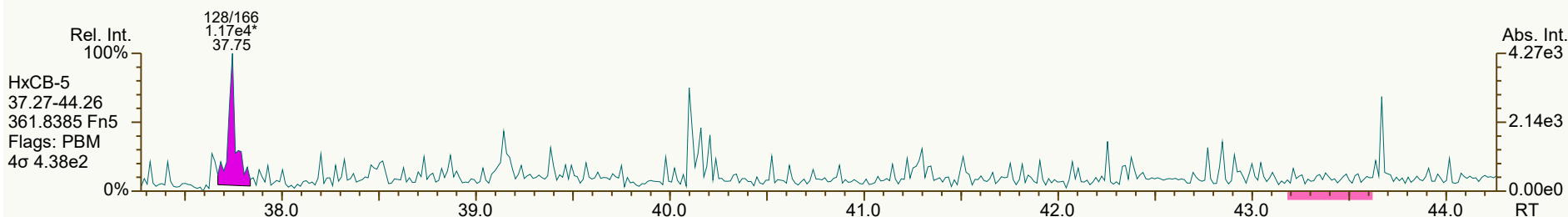
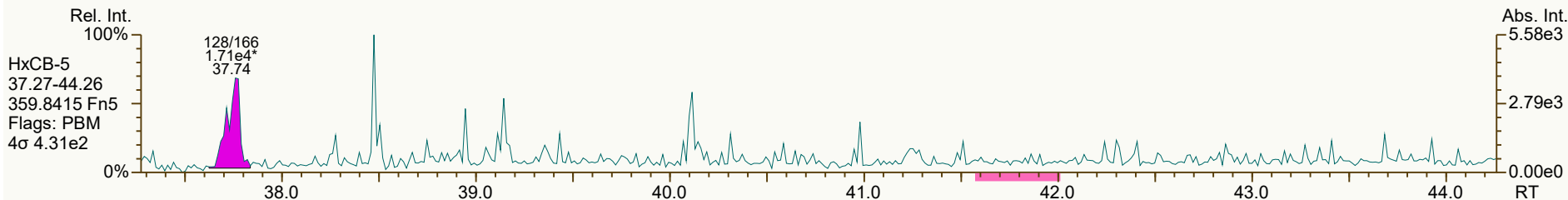
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 1740, 2402 scc: 934-187

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 13 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_007-RJ.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 3619, 6490 scc: 934-187

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 14 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



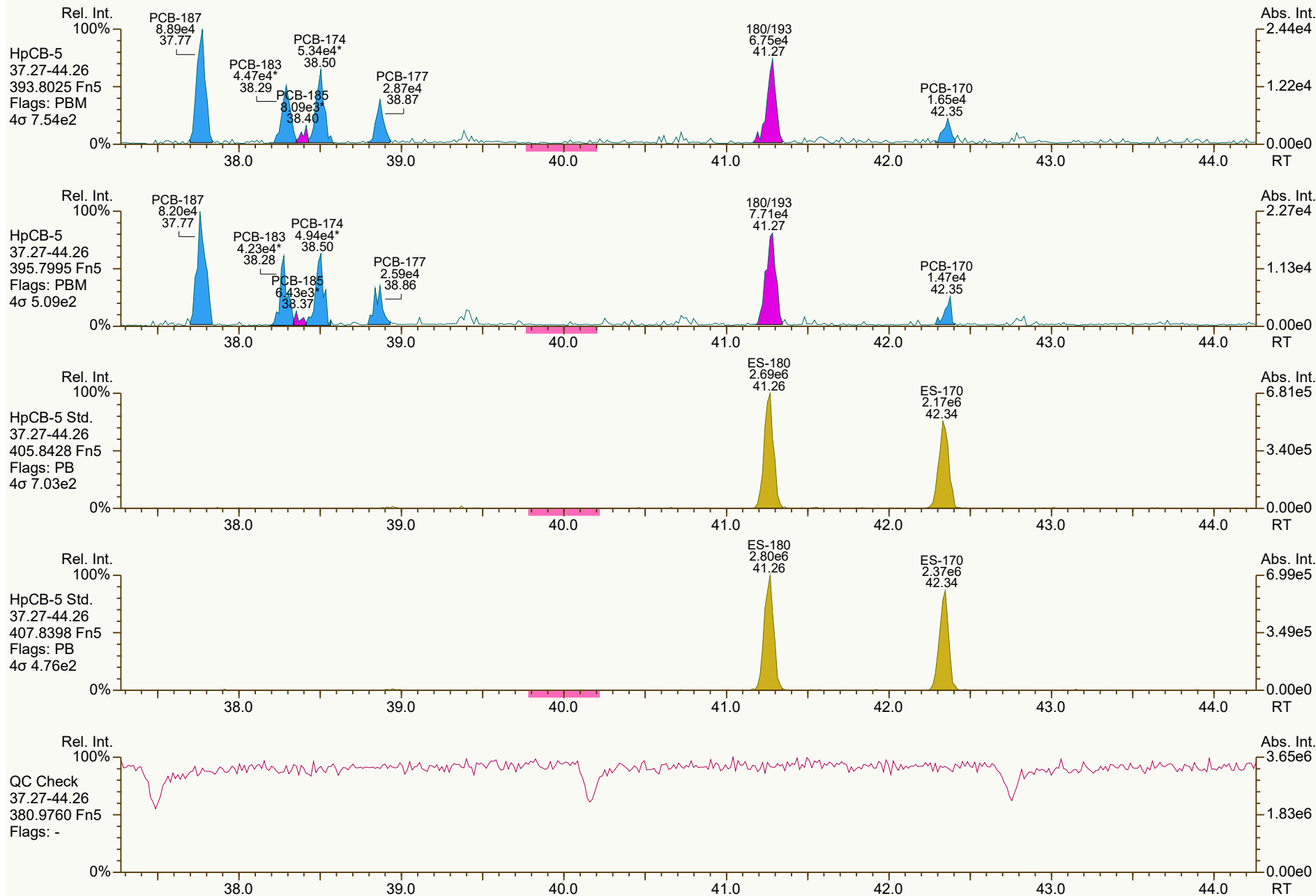
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9797, 5362 scc: 934-187

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:37 (PSW) Printed: 20-Sep-2024 11:06 Page 15 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



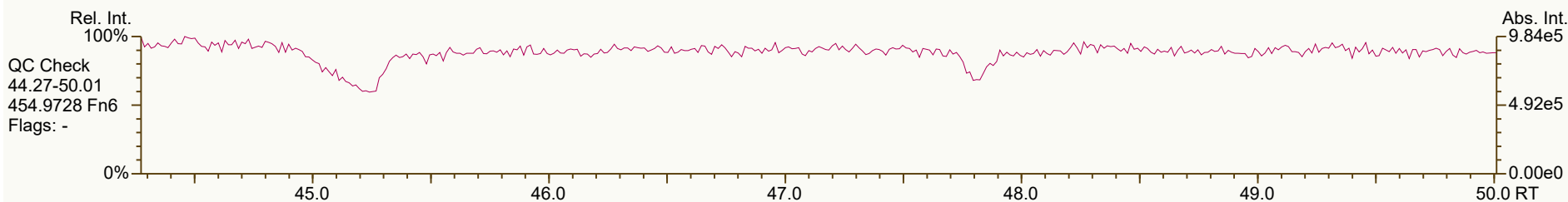
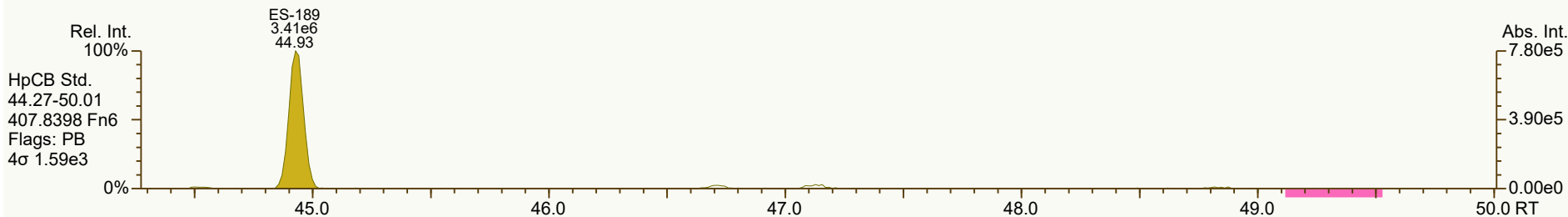
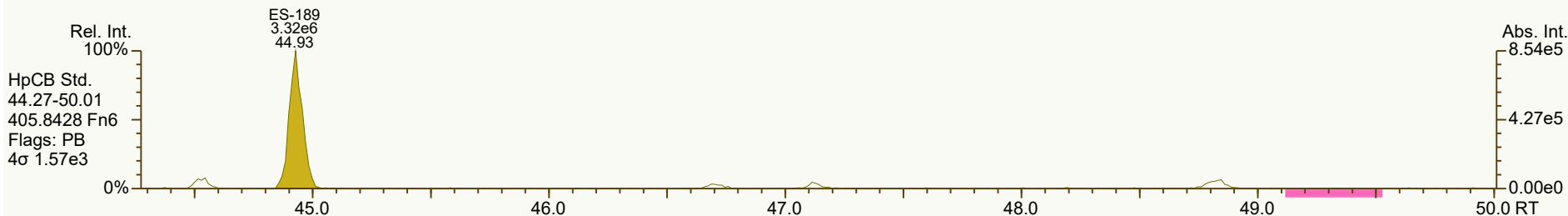
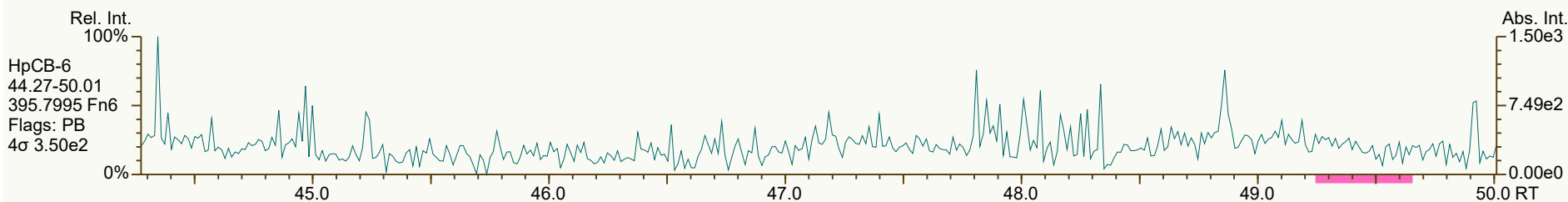
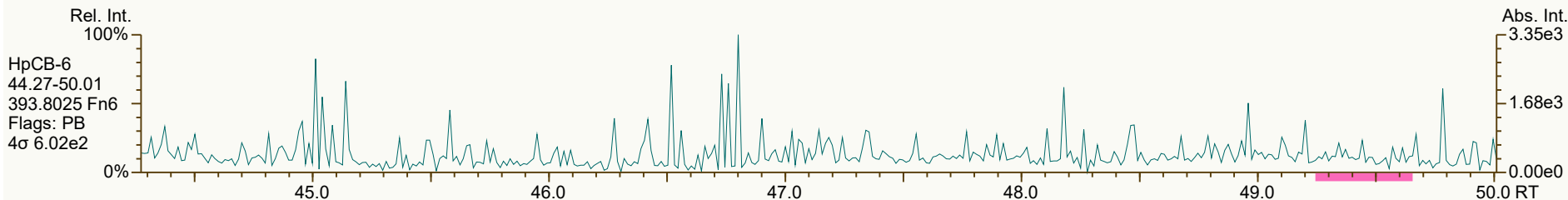
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9908, 8166 scc: 934-187

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 16 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



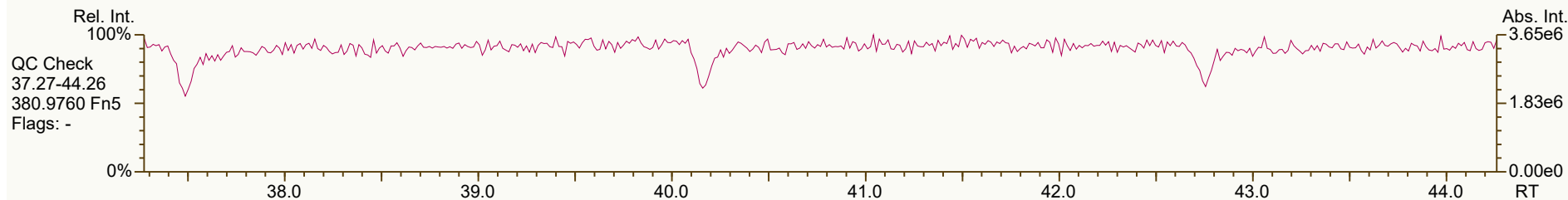
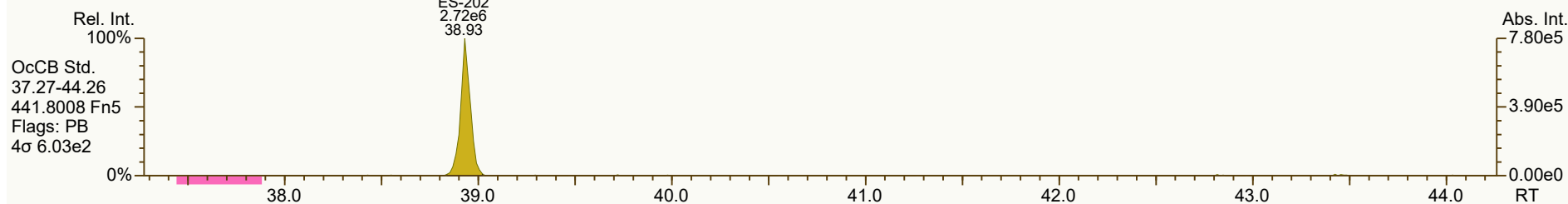
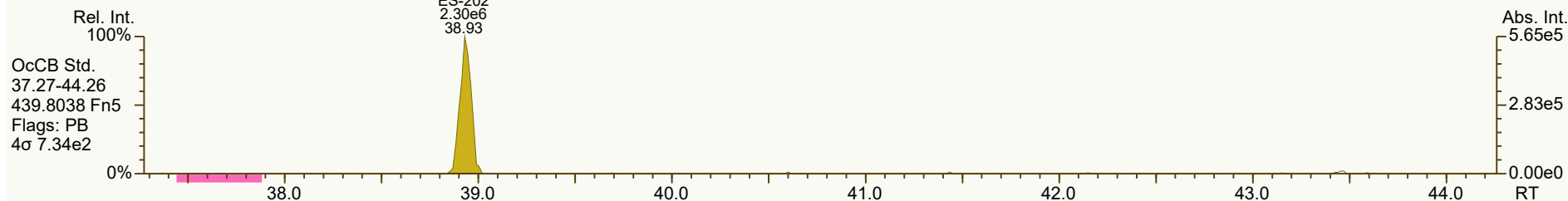
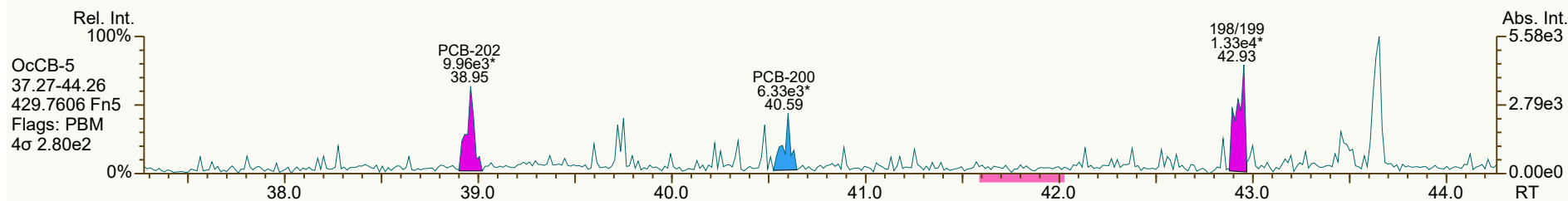
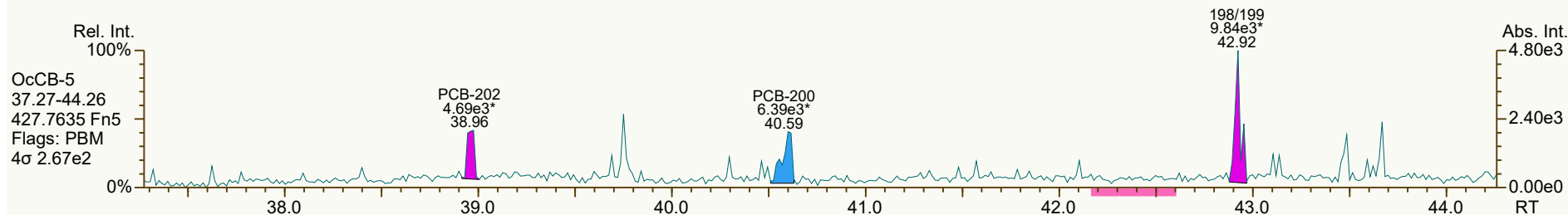
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8057, 4678 scc: 934-187

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 17 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



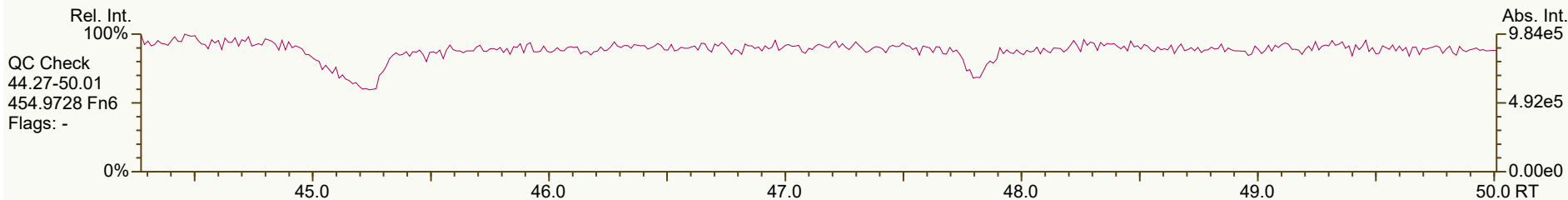
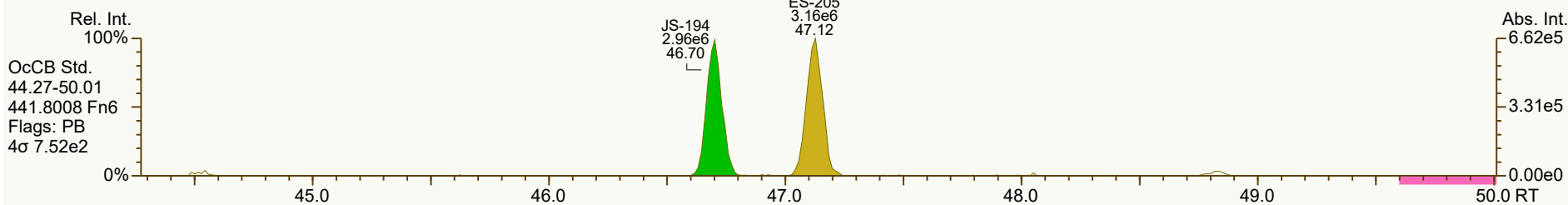
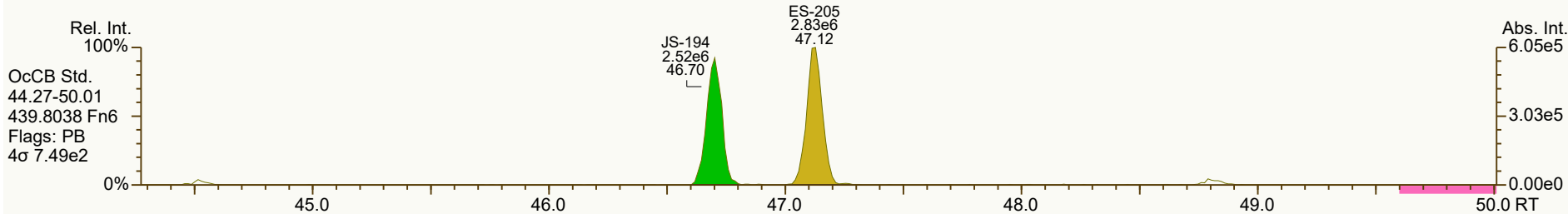
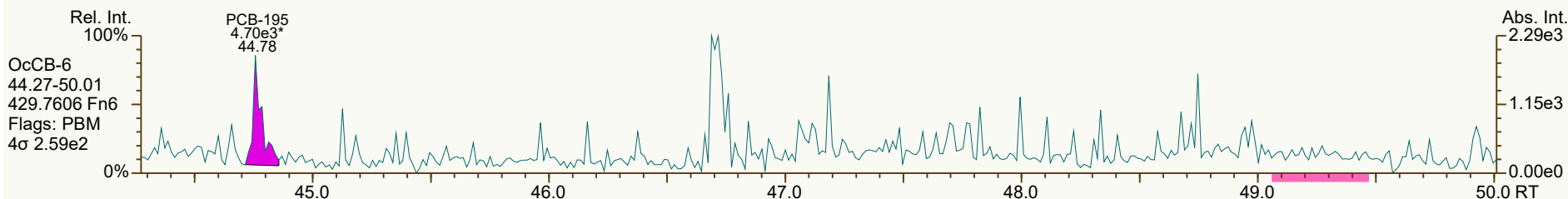
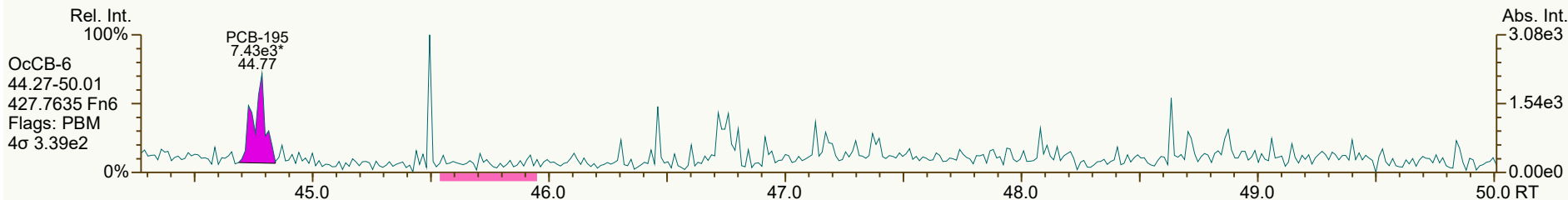
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8311, 6785 scc: 934-187

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:06 Page 18 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



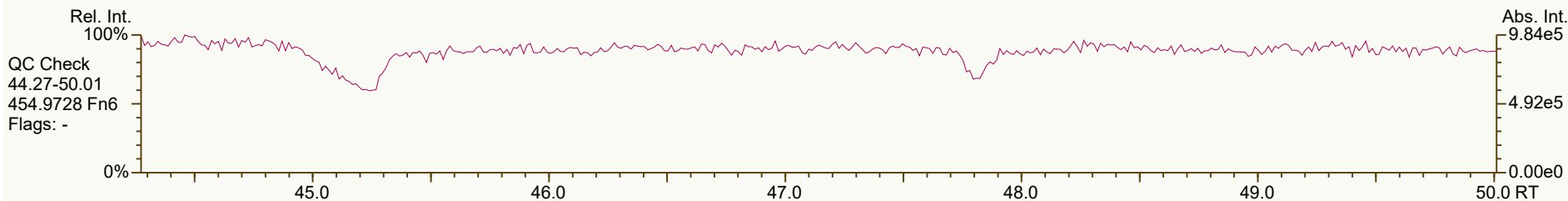
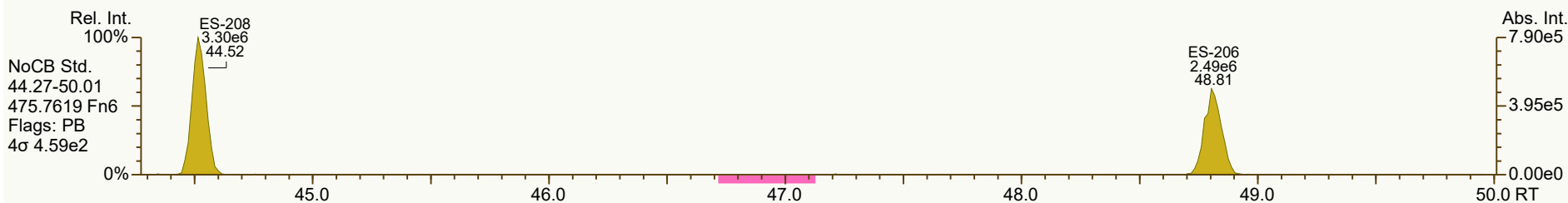
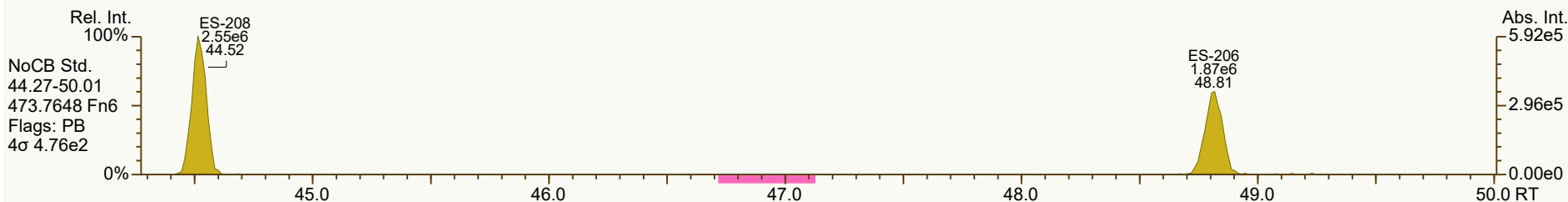
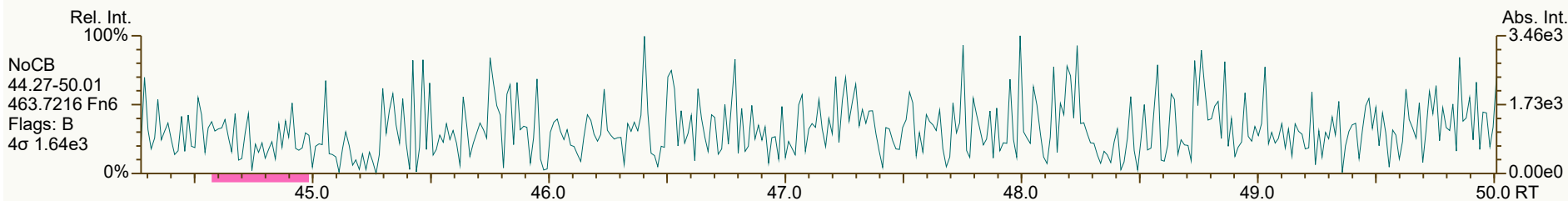
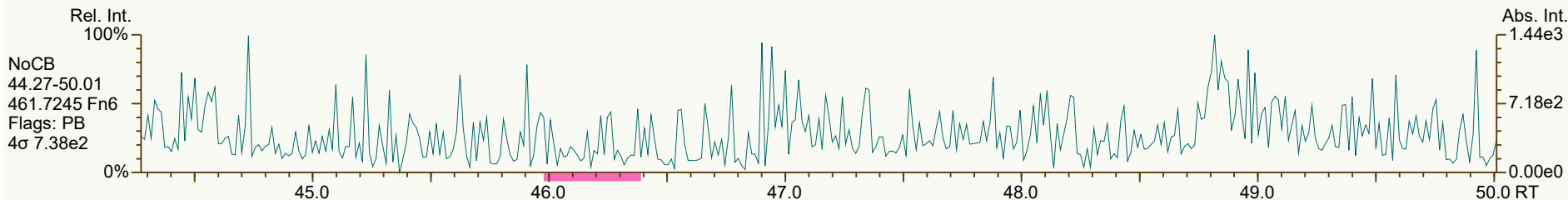
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 1145, 3966 scc: 934-187

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:38 Printed: 20-Sep-2024 11:07 Page 19 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



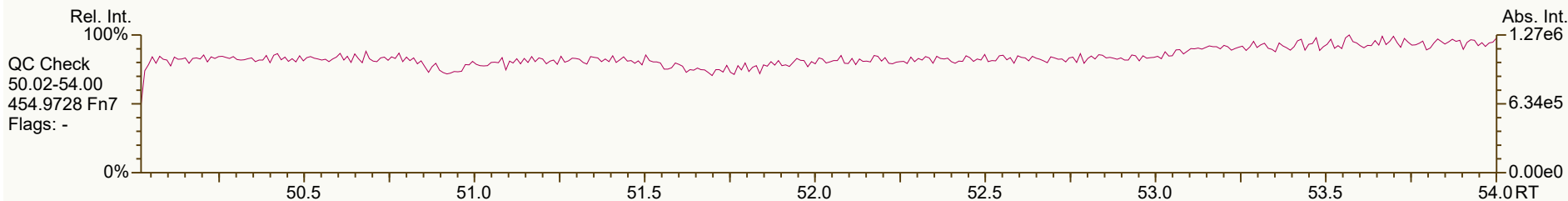
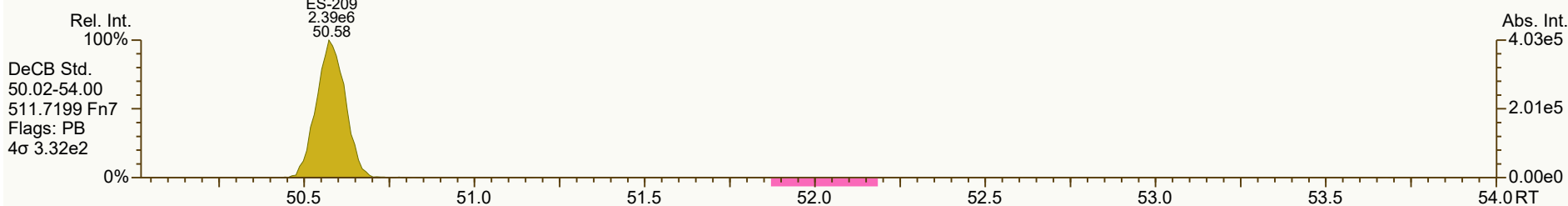
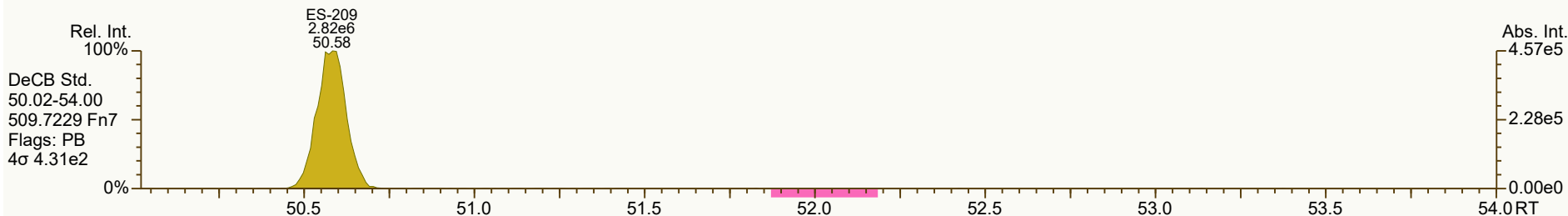
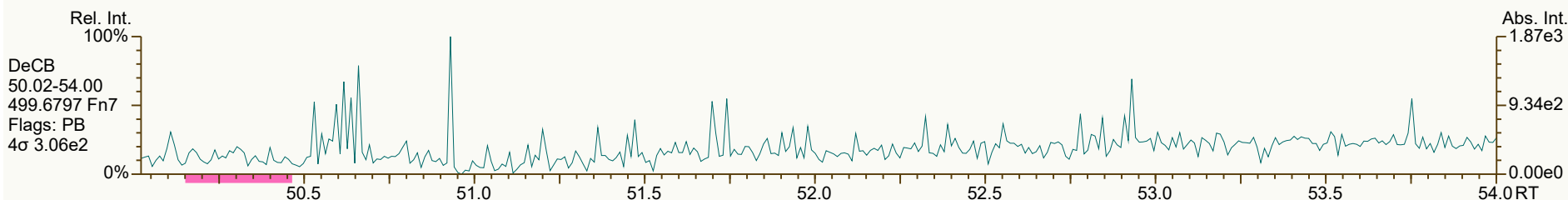
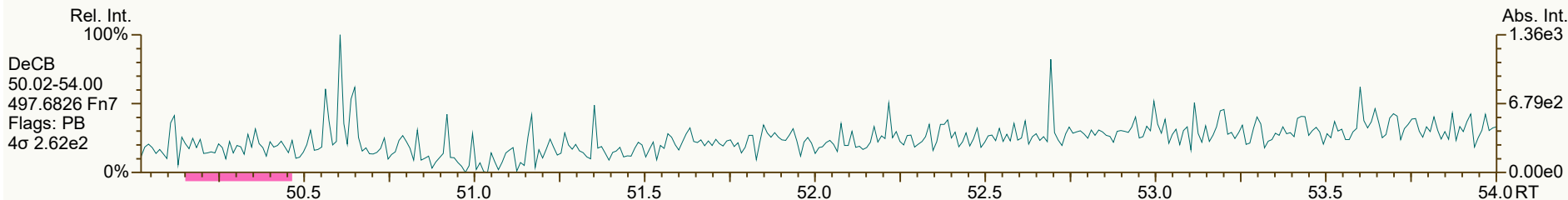
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9174, 0061 scc: 934-187

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:30 (PSW) Printed: 20-Sep-2024 11:07 Page 20 of 21

SGS ID: B9770_21382_PCB_007-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Test#5 Mill On
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 76

Acq: 18-Sep-2024 18:07:56
User: RAB Datafile: 240918S08



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_007-RJ.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 1450, 8187 scc: 934-187

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:30 (PSW) Printed: 20-Sep-2024 11:07 Page 21 of 21

Lab ID: B9770_21382_PCB_008-RJ

ACQ: 18-Sep-2024 19:05:31 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Field Blank

UTP: 20-Sep-2024 10:52:57 PSW

J-level: 20 pg Split: 2

Checkcode: 861-232-VYZ/C

Datafile: 240918S09

RPT: 23-Sep-2024 11:07 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------|--------------|-----|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-77 33'44'-TeCB | ND | | 1.0006 | | | | | 1.45 | ND | 2.76E+03 | 12.7 |
| PCB-81 344'5'-TeCB | ND | | 1.0005 | | | | | 1.46 | ND | 2.76E+03 | 12.4 |
| PCB-105 233'44'-PeCB | 35.02 | J B | 1.0007 | 1.0006 | -0.2 | 3.31E+04 | 0.69 | 1.18 | 19.7 | 1.03E+03 | 6.42 |
| PCB-114 2344'5'-PeCB | ND | | 1.0007 | | | | | 1.14 | ND | 1.03E+03 | 6.61 |
| PCB-118 23'44'5'-PeCB | 34.01 | B | 1.0007 | 1.0008 | +0.2 | 1.05E+05 | 0.66 | 1.18 | 61.8 | 1.03E+03 | 6.23 |
| PCB-123 23'44'5'-PeCB | ND | | 1.0006 | | | | | 1.19 | ND | 1.03E+03 | 7 |
| PCB-126 33'44'5'-PeCB | ND | | 1.0005 | | | | | 1.35 | ND | 1.14E+03 | 6.92 |
| PCB-156/157 ...-HxCB | ND | C | 1.0005 | | | | | 1.23 | ND | 9.59E+02 | 8.56 |
| PCB-167 23'44'55'-HxCB | ND | | 1.0005 | | | | | 1.22 | ND | 9.59E+02 | 5.46 |
| PCB-169 33'44'55'-HxCB | ND | | 1.0005 | | | | | 1.23 | ND | 9.59E+02 | 5.83 |
| PCB-189 233'44'55'-HpCB | ND | | 1.0004 | | | | | 1.31 | ND | 6.95E+02 | 3.84 |
| PCB-209 DeCB | ND | | 1.0005 | | | | | 1.08 | ND | 6.35E+02 | 8.03 |
| | | | | | | | | | | | |
| | | | | | | | | | | 20% | 145% |
| ES PCB-1 | 11.44 | | 0.7229 | 0.7229 | 0 | 3.67E+06 | 2.87 | 1.09 | 35.4 % | 5% | 145% |
| ES PCB-3 | 13.66 | | 0.8630 | 0.8630 | 0 | 4.55E+06 | 3.15 | 1.06 | 44.9 % | 5% | 145% |
| ES PCB-4 | 13.91 | | 0.8788 | 0.8789 | +0.1 | 3.05E+06 | 1.59 | 0.52 | 61.5 % | 5% | 145% |
| ES PCB-15 | 19.50 | | 1.2319 | 1.2322 | +0.4 | 6.41E+06 | 1.48 | 1.11 | 60.2 % | 5% | 145% |
| ES PCB-19 | 16.92 | | 1.0691 | 1.0690 | -0.1 | 3.51E+06 | 1.01 | 0.54 | 68 % | 5% | 145% |
| ES PCB-37 | 25.75 | | 1.0809 | 1.0811 | +0.3 | 6.58E+06 | 1.00 | 1.71 | 54.5 % | 5% | 145% |
| ES PCB-54 | 19.78 | | 0.8306 | 0.8304 | -0.2 | 3.50E+06 | 0.85 | 0.78 | 63.5 % | 5% | 145% |
| ES PCB-77 | 32.04 | | 1.3442 | 1.3451 | +1.7 | 6.27E+06 | 0.72 | 1.53 | 58 % | 10% | 145% |
| ES PCB-81 | 31.56 | | 1.3240 | 1.3247 | +1.3 | 6.47E+06 | 0.71 | 1.55 | 58.8 % | 10% | 145% |
| ES PCB-104 | 24.66 | | 0.8294 | 0.8290 | -0.6 | 3.66E+06 | 1.50 | 0.74 | 80.1 % | 10% | 145% |
| ES PCB-105 | 35.00 | | 1.1761 | 1.1764 | +0.6 | 5.69E+06 | 1.48 | 1.31 | 70.9 % | 10% | 145% |
| ES PCB-114 | 34.44 | | 1.1575 | 1.1578 | +0.6 | 5.61E+06 | 1.52 | 1.34 | 67.9 % | 10% | 145% |
| ES PCB-118 | 33.98 | | 1.1420 | 1.1422 | +0.4 | 5.72E+06 | 1.52 | 1.35 | 68.8 % | 10% | 145% |
| ES PCB-123 | 33.70 | | 1.1327 | 1.1329 | +0.4 | 5.36E+06 | 1.55 | 1.29 | 67.6 % | 10% | 145% |
| ES PCB-126 | 37.60 | | 1.2635 | 1.2638 | +0.7 | 5.95E+06 | 1.34 | 1.59 | 60.7 % | 10% | 145% |
| ES PCB-153 | 35.54 | | 0.9707 | 0.9707 | 0 | 4.49E+06 | 1.26 | 1.10 | 76.3 % | 10% | 145% |
| ES PCB-155 | 29.55 | | 0.8072 | 0.8070 | -0.4 | 4.72E+06 | 1.19 | 1.38 | 64.2 % | 10% | 145% |
| ES PCB-156/157 | 40.12 | C | 1.0958 | 1.0958 | 0 | 1.11E+07 | 1.16 | 1.62 | 64.3 % | 10% | 145% |
| ES PCB-167 | 39.13 | | 1.0687 | 1.0687 | 0 | 5.99E+06 | 1.14 | 1.70 | 65.9 % | 10% | 145% |
| ES PCB-169 | 42.83 | | 1.1697 | 1.1697 | 0 | 5.59E+06 | 1.16 | 1.55 | 67.2 % | 10% | 145% |
| ES PCB-170 | 42.34 | | 0.9066 | 0.9065 | -0.3 | 4.26E+06 | 1.00 | 1.06 | 82.3 % | 10% | 145% |
| ES PCB-180 | 41.26 | | 0.8835 | 0.8834 | -0.2 | 4.83E+06 | 0.94 | 1.30 | 75.9 % | 10% | 145% |
| ES PCB-188 | 34.41 | | 0.9398 | 0.9398 | 0 | 3.02E+06 | 0.99 | 0.63 | 90.3 % | 10% | 145% |
| ES PCB-189 | 44.93 | | 0.9621 | 0.9621 | 0 | 6.01E+06 | 1.00 | 1.71 | 71.9 % | 10% | 145% |
| ES PCB-202 | 38.93 | | 1.0632 | 1.0632 | 0 | 4.15E+06 | 0.92 | 0.96 | 81.1 % | 10% | 145% |
| ES PCB-205 | 47.13 | | 1.0091 | 1.0091 | 0 | 5.14E+06 | 0.89 | 1.23 | 85.1 % | 10% | 145% |
| ES PCB-206 | 48.81 | | 1.0453 | 1.0452 | -0.3 | 3.87E+06 | 0.76 | 0.84 | 94 % | 10% | 145% |

Lab ID: B9770_21382_PCB_008-RJ
Client ID: Field Blank
Datafile: 240918S09

ACQ: 18-Sep-2024 19:05:31 RAB
UTP: 20-Sep-2024 10:52:57 PSW
RPT: 23-Sep-2024 11:07 pw

Wt/Vol: 1
J-level: 20 pg Split: 2
Stds (pg): JS: 2000 ES: 4000 CS/SS: 4000

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC
Checkcode: 861-232-VYZ/C
Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------|------------------|----|-------------------|-------------------|-----------------|---------------------|-----------------|-----------------|-------------------|-------------------|-----------------|
| | | | | | | | | | | 20% | 145% |
| ES PCB-208 | 44.52 | | 0.9533 | 0.9533 | 0 | 5.12E+06 | 0.80 | 1.25 | 83.6 % | 10% | 145% |
| ES PCB-209 | 50.58 | | 1.0832 | 1.0831 | -0.3 | 4.53E+06 | 1.18 | 0.94 | 98.2 % | 10% | 145% |
| | | | | | | | | | | 70% | 130% |
| SS PCB-28 | 22.22 | | 0.9327 | 0.9327 | 0 | 5.99E+06 | 0.99 | 1.01 | 89.8 % | 5% | 145% |
| SS PCB-111 | 32.02 | | 1.0762 | 1.0764 | +0.4 | 5.28E+06 | 1.58 | 0.97 | 102 % | 10% | 145% |
| SS PCB-178 | 36.97 | | 1.0098 | 1.0098 | 0 | 2.47E+06 | 1.01 | 0.74 | 110 % | 10% | 145% |
| ES PCB-20 | 22.22 | | 0.9327 | 0.9327 | 0 | 5.99E+06 | 0.99 | 1.73 | 40.9 % | 5% | 145% |
| ES PCB-111 | 32.02 | | 1.0762 | 1.0764 | +0.4 | 5.28E+06 | 1.58 | 1.25 | 60.7 % | 10% | 145% |
| ES PCB-178 | 36.97 | | 1.0098 | 1.0098 | 0 | 2.47E+06 | 1.01 | 0.46 | 99.8 % | 10% | 145% |

| | | | | | | | | | | | |
|------------|-------|--|--|--|--|----------|------|--|--|--|--|
| JS PCB-9 | 15.83 | | | | | 9.56E+06 | 1.52 | | | | |
| JS PCB-52 | 23.82 | | | | | 7.09E+06 | 0.73 | | | | |
| JS PCB-101 | 29.75 | | | | | 6.14E+06 | 1.65 | | | | |
| JS PCB-138 | 36.61 | | | | | 5.35E+06 | 1.09 | | | | |
| JS PCB-194 | 46.70 | | | | | 4.90E+06 | 0.85 | | | | |

| | Totals | NON-EMPC | EMPC | DL |
|--|----------|----------|-------|------|
| | Mono-CB | 157 | 386 | 11.1 |
| | Di-CB | 1,310 | 1,310 | 10.5 |
| | Tri-CB | 407 | 598 | 17.6 |
| | Tetra-CB | 501 | 743 | 10.3 |
| | Penta-CB | 737 | 991 | 6.31 |
| | Hexa-CB | 571 | 754 | 5.9 |
| | Hepta-CB | 31.6 | 216 | 5.41 |
| | Octa-CB | 0 | 0 | 5.79 |
| | Nona-CB | 0 | 0 | 27.4 |

Lab ID: B9770_21382_PCB_008-RJ

ACQ: 18-Sep-2024 19:05:31 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Field Blank

UTP: 20-Sep-2024 10:52:57 PSW

J-level: 20 pg Split: 2

Checkcode: 861-232-VYZ/C

Datafile: 240918S09

RPT: 23-Sep-2024 11:07 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|--------------|----------|-------------|---------------|--------------|----------|------|------|------------------|----------------------|--------------------|
| PCB-1 2-MoCB | 11.46 | B | 1.0012 | 1.0011 | -0.1 | 2.13E+05 | 2.88 | 1.47 | 157 | 2.34E+03 | 11.9 |
| PCB-2 3-MoCB | 13.50 | B EMPC | 0.9878 | 0.9879 | +0.1 | 2.31E+05 | 3.61 | 1.28 | 159 | 2.34E+03 | 11.8 |
| PCB-3 4-MoCB | 13.67 | B EMPC | 1.0010 | 1.0009 | -0.1 | 1.15E+05 | 4.05 | 1.45 | 69.4 | 2.34E+03 | 10.3 |
| PCB-4 22'-DiCB | 13.93 | B | 1.0012 | 1.0012 | 0 | 1.02E+05 | SI | 1.30 | 104 | 1.59E+03 | 11.4 |
| PCB-10 26-DiCB | ND | | 1.0132 | | | | | 1.60 | ND | 1.59E+03 | 9.22 |
| PCB-9 25-DiCB | 15.84 | J | 1.0010 | 1.0007 | -0.3 | 2.83E+04 | SI | 1.08 | 16.3 | 2.18E+03 | 11.5 |
| PCB-7 24-DiCB | 16.00 | B | 1.0110 | 1.0110 | 0 | 3.93E+04 | SI | 0.96 | 25.6 | 2.18E+03 | 13 |
| PCB-6 23'-DiCB | 16.23 | B | 1.0257 | 1.0256 | -0.1 | 5.67E+04 | SI | 1.12 | 31.6 | 2.18E+03 | 11.2 |
| PCB-5 23-DiCB | ND | | 1.0444 | | | | | 0.93 | ND | 2.18E+03 | 13.4 |
| PCB-8 24'-DiCB | 16.65 | B | 1.0517 | 1.0518 | +0.1 | 2.05E+05 | 1.43 | 1.16 | 110 | 2.18E+03 | 10.7 |
| PCB-14 35-DiCB | ND | | 0.9312 | | | | | 0.97 | ND | 2.18E+03 | 12.9 |
| PCB-11 33'-DiCB | 18.94 | B | 0.9713 | 0.9713 | 0 | 1.62E+06 | 1.42 | 1.06 | 958 | 2.18E+03 | 11.8 |
| PCB-13/12 34'/34-DiCB | 19.24 | J C | 0.9860 | 0.9866 | +0.7 | 4.27E+04 | SI | 0.94 | 28.4 | 2.18E+03 | 13.3 |
| PCB-15 44'-DiCB | 19.53 | B | 1.0008 | 1.0015 | +0.8 | 7.02E+04 | SI | 1.31 | 33.5 | 2.18E+03 | 9.53 |
| PCB-19 22'6-TrCB | ND | | 1.0010 | | | | | 1.16 | ND | 2.68E+03 | 21.8 |
| PCB-30/18 246/22'5-TrCB | 18.67 | B C | 1.1015 | 1.1033 | +2.0 | 1.30E+05 | 0.94 | 1.47 | 101 | 2.68E+03 | 17.2 |
| PCB-17 22'4-TrCB | 19.05 | B EMPC | 1.1254 | 1.1259 | +0.6 | 4.38E+04 | 1.49 | 1.04 | 47.8 | 2.68E+03 | 24.3 |
| PCB-27 23'6-TrCB | 19.23 | J EMPC | 1.1371 | 1.1365 | -0.7 | 1.99E+04 | 2.25 | 1.44 | 15.8 | 2.68E+03 | 17.6 |
| PCB-24 236-TrCB | ND | | 1.1444 | | | | | 1.47 | ND | 2.68E+03 | 17.2 |
| PCB-16 22'3-TrCB | 19.48 | | 1.1508 | 1.1514 | +0.7 | 4.66E+04 | 0.97 | 1.01 | 52.8 | 2.68E+03 | 25.2 |
| PCB-32 24'6-TrCB | 19.94 | B EMPC | 1.1782 | 1.1785 | +0.4 | 5.17E+04 | 1.54 | 1.62 | 36.4 | 2.68E+03 | 15.7 |
| PCB-34 23'5'-TrCB | ND | | 0.8181 | | | | | 1.13 | ND | 3.31E+03 | 16.9 |
| PCB-23 235-TrCB | ND | | 0.8235 | | | | | 1.12 | ND | 3.31E+03 | 17 |
| PCB-26/29 23'5/245-TrCB | 21.47 | J B C | 0.8347 | 0.8337 | -1.3 | 4.89E+04 | 0.93 | 1.13 | 26.3 | 3.31E+03 | 16.9 |
| PCB-25 23'4-TrCB | ND | | 0.8426 | | | | | 1.38 | ND | 3.31E+03 | 13.8 |
| PCB-31 24'5-TrCB | 21.97 | B | 0.8534 | 0.8532 | -0.3 | 1.84E+05 | 1.19 | 1.32 | 84.7 | 3.31E+03 | 14.4 |
| PCB-28/20 244'/233'-TrCB | 22.24 | B C | 0.8642 | 0.8637 | -0.7 | 2.32E+05 | 0.98 | 1.21 | 116 | 3.31E+03 | 15.7 |
| PCB-21/33 234/23'4'-TrCB | 22.45 | B EMPC C | 0.8710 | 0.8718 | +1.1 | 1.12E+05 | 1.31 | 1.18 | 57.6 | 3.31E+03 | 16.1 |
| PCB-22 234'-TrCB | 22.81 | EMPC | 0.8859 | 0.8857 | -0.3 | 7.04E+04 | 1.30 | 1.28 | 33.5 | 3.31E+03 | 15 |
| PCB-36 33'5-TrCB | ND | | 0.9383 | | | | | 1.35 | ND | 3.31E+03 | 14.1 |
| PCB-39 34'5-TrCB | ND | | 0.9508 | | | | | 1.23 | ND | 3.31E+03 | 15.5 |
| PCB-38 345-TrCB | ND | | 0.9709 | | | | | 1.24 | ND | 3.31E+03 | 15.4 |
| PCB-35 33'4-TrCB | ND | | 0.9867 | | | | | 1.18 | ND | 3.31E+03 | 16.2 |
| PCB-37 344'-TrCB | 25.78 | B | 1.0007 | 1.0009 | +0.3 | 6.08E+04 | 1.04 | 1.43 | 25.8 | 3.31E+03 | 13.3 |
| PCB-54 22'66'-TeCB | ND | | 1.0010 | | | | | 1.52 | ND | 1.15E+03 | 7.63 |
| PCB-50/53 22'46/22'56'-TeCB | 21.73 | J C | 0.9128 | 0.9122 | -0.8 | 2.24E+04 | 0.70 | 0.88 | 15.7 | 1.35E+03 | 10 |
| PCB-45 22'36'-TeCB | ND | | 0.9377 | | | | | 0.72 | ND | 1.35E+03 | 12.2 |
| PCB-51 22'46'-TeCB | 22.40 | J B EMPC | 0.9403 | 0.9404 | +0.1 | 2.96E+04 | 0.63 | 0.92 | 19.9 | 1.35E+03 | 9.64 |
| PCB-46 22'36'-TeCB | ND | | 0.9496 | | | | | 0.71 | ND | 1.35E+03 | 12.4 |
| PCB-52 22'55'-TeCB | 23.85 | B | 1.0010 | 1.0010 | 0 | 2.73E+05 | 0.78 | 1.00 | 169 | 1.35E+03 | 8.89 |
| PCB-73 23'5'6-TeCB | ND | | 1.0061 | | | | | 1.23 | ND | 1.35E+03 | 7.22 |

Lab ID: B9770_21382_PCB_008-RJ

ACQ: 18-Sep-2024 19:05:31 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Field Blank

UTP: 20-Sep-2024 10:52:57 PSW

J-level: 20 pg Split: 2

Checkcode: 861-232-VYZ/C

Datafile: 240918S09

RPT: 23-Sep-2024 11:07 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|---------------------------------|-----------|------------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-43 22'35'-TeCB | ND | | 1.0099 | | | | | 0.85 | ND | 1.35E+03 | 10.4 |
| PCB-69/49 23'46/22'45'-TeCB | 24.28 | B C | 1.0177 | 1.0193 | +2.3 | 9.53E+04 | 0.69 | 1.01 | 58.3 | 1.35E+03 | 8.76 |
| PCB-48 22'45'-TeCB | 24.53 | J | 1.0295 | 1.0299 | +0.6 | 2.54E+04 | 0.85 | 0.86 | 18.3 | 1.35E+03 | 10.3 |
| PCB-44/47/65 ...-TeCB | 24.74 | B C | 1.0386 | 1.0387 | +0.1 | 2.43E+05 | 0.74 | 0.96 | 156 | 1.35E+03 | 9.17 |
| PCB-59/62/75 ...-TeCB | ND | C | 1.0499 | | | | | 1.11 | ND | 1.35E+03 | 7.98 |
| PCB-42 22'34'-TeCB | 25.18 | | 1.0575 | 1.0571 | -0.6 | 3.32E+04 | 0.68 | 0.77 | 26.7 | 1.35E+03 | 11.5 |
| PCB-41 22'34'-TeCB | ND | | 1.0713 | | | | | 0.67 | ND | 1.35E+03 | 13.2 |
| PCB-71/40 23'4'6/22'33'-TeCB | 25.63 | J B EMPC C | 1.0755 | 1.0758 | +0.5 | 5.25E+04 | 0.66 | 0.95 | 34.3 | 1.35E+03 | 9.35 |
| PCB-64 234'6'-TeCB | 25.81 | B | 1.0836 | 1.0835 | -0.2 | 5.95E+04 | 0.71 | 1.15 | 32.1 | 1.35E+03 | 7.71 |
| PCB-72 23'55'-TeCB | ND | | 0.8404 | | | | | 1.21 | ND | 2.76E+03 | 14.9 |
| PCB-68 23'45'-TeCB | ND | | 0.8483 | | | | | 1.16 | ND | 2.76E+03 | 15.6 |
| PCB-57 233'5'-TeCB | ND | | 0.8601 | | | | | 1.17 | ND | 2.76E+03 | 15.5 |
| PCB-58 233'5'-TeCB | ND | | 0.8668 | | | | | 1.32 | ND | 2.76E+03 | 13.6 |
| PCB-67 23'45'-TeCB | ND | | 0.8713 | | | | | 1.34 | ND | 2.76E+03 | 13.5 |
| PCB-63 234'5'-TeCB | ND | | 0.8785 | | | | | 1.13 | ND | 2.76E+03 | 16 |
| PCB-61/70/74/76 ...-TeCB | 28.02 | B EMPC C | 0.8878 | 0.8880 | +0.3 | 2.46E+05 | 0.62 | 1.18 | 129 | 2.76E+03 | 15.3 |
| PCB-66 23'44'-TeCB | 28.29 | B EMPC | 0.8967 | 0.8965 | -0.3 | 8.41E+04 | 1.08 | 1.27 | 41.1 | 2.76E+03 | 14.3 |
| PCB-55 233'4'-TeCB | ND | | 0.9016 | | | | | 1.26 | ND | 2.76E+03 | 14.3 |
| PCB-56 233'4'-TeCB | 28.89 | | 0.9155 | 0.9154 | -0.2 | 4.89E+04 | 0.75 | 1.23 | 24.6 | 2.76E+03 | 14.7 |
| PCB-60 2344'-TeCB | 29.08 | J EMPC | 0.9214 | 0.9215 | +0.2 | 3.08E+04 | 0.58 | 1.05 | 18.2 | 2.76E+03 | 17.2 |
| PCB-80 33'55'-TeCB | ND | | 0.9309 | | | | | 1.24 | ND | 2.76E+03 | 14.5 |
| PCB-79 33'45'-TeCB | ND | | 0.9732 | | | | | 1.40 | ND | 2.76E+03 | 12.9 |
| PCB-78 33'45'-TeCB | ND | | 0.9884 | | | | | 1.16 | ND | 2.76E+03 | 15.6 |
| PCB-104 22'466'-PeCB | ND | | 1.0009 | | | | | 1.46 | ND | 7.16E+02 | 4.68 |
| PCB-96 22'366'-PeCB | ND | | 1.0147 | | | | | 1.21 | ND | 7.16E+02 | 5.67 |
| PCB-103 22'45'6'-PeCB | ND | | 0.8968 | | | | | 0.76 | ND | 1.03E+03 | 10.9 |
| PCB-94 22'356'-PeCB | ND | | 0.9036 | | | | | 0.63 | ND | 1.03E+03 | 13.2 |
| PCB-95 22'35'6'-PeCB | 27.26 | B | 0.9167 | 0.9165 | -0.3 | 2.43E+05 | 0.60 | 0.72 | 251 | 1.03E+03 | 11.5 |
| PCB-100/93 22'44'6/22'356'-PeCB | ND | C | 0.9229 | | | | | 0.68 | ND | 1.03E+03 | 12.3 |
| PCB-102 22'456'-PeCB | ND | | 0.9269 | | | | | 0.82 | ND | 1.03E+03 | 10.2 |
| PCB-98 22'34'6'-PeCB | ND | | 0.9292 | | | | | 0.80 | ND | 1.03E+03 | 10.4 |
| PCB-88 22'346'-PeCB | ND | | 0.9390 | | | | | 0.62 | ND | 1.03E+03 | 13.3 |
| PCB-91 22'34'6'-PeCB | 28.02 | J EMPC | 0.9416 | 0.9417 | +0.2 | 1.82E+04 | 0.50 | 0.80 | 17.1 | 1.03E+03 | 10.5 |
| PCB-84 22'33'6'-PeCB | 28.22 | B | 0.9486 | 0.9484 | -0.3 | 4.34E+04 | 0.58 | 0.62 | 52.6 | 1.03E+03 | 13.5 |
| PCB-89 22'346'-PeCB | ND | | 0.9623 | | | | | 0.74 | ND | 1.03E+03 | 11.2 |
| PCB-121 23'45'6'-PeCB | ND | | 0.9725 | | | | | 1.10 | ND | 1.03E+03 | 7.59 |
| PCB-92 22'355'-PeCB | 29.27 | B EMPC | 0.9839 | 0.9840 | +0.2 | 2.44E+04 | 0.45 | 0.70 | 26 | 1.03E+03 | 11.9 |
| PCB-113/90/101 ...-PeCB | 29.77 | B C | 0.9999 | 1.0006 | +1.3 | 2.41E+05 | 0.57 | 0.81 | 222 | 1.03E+03 | 10.3 |
| PCB-83 22'33'5'-PeCB | ND | | 1.0148 | | | | | 0.59 | ND | 1.03E+03 | 14 |
| PCB-99 22'44'5'-PeCB | 30.26 | B EMPC | 1.0174 | 1.0173 | -0.2 | 7.66E+04 | 0.76 | 0.95 | 60.1 | 1.03E+03 | 8.75 |
| PCB-112 233'56'-PeCB | ND | | 1.0210 | | | | | 1.18 | ND | 1.03E+03 | 7.04 |

Lab ID: B9770_21382_PCB_008-RJ

ACQ: 18-Sep-2024 19:05:31 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Field Blank

UTP: 20-Sep-2024 10:52:57 PSW

J-level: 20 pg Split: 2

Checkcode: 861-232-VYZ/C

Datafile: 240918S09

RPT: 23-Sep-2024 11:07 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-------------------------------|-----------|----------|----------|------------|-----------|----------|------|------|---------------|-------------------|-----------------|
| PCB-109/119/86/97/125...-PeCB | 30.76 | J B C | 1.0327 | 1.0341 | +2.6 | 1.25E+05 | 0.60 | 0.87 | 107 | 1.03E+03 | 9.54 |
| PCB-117 234'56-PeCB | ND | | 1.0504 | | | | | 0.96 | ND | 1.03E+03 | 8.7 |
| PCB-116/85 23456/22'344'-PeCB | 31.34 | J C | 1.0533 | 1.0533 | 0 | 2.51E+04 | 0.62 | 0.83 | 22.5 | 1.03E+03 | 10 |
| PCB-110 233'4'6-PeCB | 31.48 | B EMPC | 1.0579 | 1.0581 | +0.4 | 2.26E+05 | 0.73 | 1.11 | 152 | 1.03E+03 | 7.49 |
| PCB-115 2344'6-PeCB | ND | | 1.0600 | | | | | 1.11 | ND | 1.03E+03 | 7.48 |
| PCB-82 22'33'4-PeCB | ND | | 1.0675 | | | | | 0.73 | ND | 1.03E+03 | 11.4 |
| PCB-111 233'55'-PeCB | ND | | 1.0770 | | | | | 1.02 | ND | 1.03E+03 | 8.2 |
| PCB-120 23'455'-PeCB | ND | | 1.0902 | | | | | 1.24 | ND | 1.03E+03 | 6.74 |
| PCB-108/124 ...-PeCB | ND | C | 0.9915 | | | | | 1.00 | ND | 1.03E+03 | 8.33 |
| PCB-107 233'4'5-PeCB | ND | | 0.9975 | | | | | 1.12 | ND | 1.03E+03 | 7.46 |
| PCB-106 233'45-PeCB | ND | | 1.0038 | | | | | 1.07 | ND | 1.03E+03 | 7.8 |
| PCB-122 233'4'5'-PeCB | ND | | 1.0096 | | | | | 0.84 | ND | 1.03E+03 | 9.02 |
| PCB-127 33'455'-PeCB | ND | | 1.0352 | | | | | 1.09 | ND | 1.03E+03 | 6.99 |
| PCB-155 22'44'66'-HxCB | ND | | 1.0007 | | | | | 1.36 | ND | 5.81E+02 | 3.74 |
| PCB-152 22'3566'-HxCB | ND | | 1.0075 | | | | | 1.22 | ND | 5.81E+02 | 4.18 |
| PCB-150 22'34'66'-HxCB | ND | | 1.0119 | | | | | 1.07 | ND | 5.81E+02 | 4.76 |
| PCB-136 22'33'66'-HxCB | 30.23 | B EMPC | 1.0230 | 1.0232 | +0.4 | 5.56E+04 | 1.75 | 1.01 | 46.4 | 5.81E+02 | 5.01 |
| PCB-145 22'3466'-HxCB | ND | | 1.0313 | | | | | 1.16 | ND | 5.81E+02 | 4.38 |
| PCB-148 22'34'56'-HxCB | ND | | 1.0735 | | | | | 1.07 | ND | 5.81E+02 | 4.69 |
| PCB-151/135 ...-HxCB | 32.25 | B EMPC C | 1.0919 | 1.0916 | -0.6 | 1.12E+05 | 0.88 | 1.06 | 94.2 | 5.81E+02 | 4.76 |
| PCB-154 22'44'56'-HxCB | ND | | 1.0979 | | | | | 1.15 | ND | 5.81E+02 | 4.36 |
| PCB-144 22'345'6-HxCB | 32.72 | J B EMPC | 1.1074 | 1.1075 | +0.2 | 2.05E+04 | 0.89 | 1.06 | 17.3 | 5.81E+02 | 4.75 |
| PCB-147/149 ...-HxCB | 33.03 | B C | 1.1177 | 1.1179 | +0.4 | 2.17E+05 | 1.34 | 1.12 | 173 | 5.81E+02 | 4.5 |
| PCB-134 22'33'56-HxCB | 33.21 | J EMPC | 1.1238 | 1.1239 | +0.2 | 9.99E+03 | 2.11 | 0.85 | 10.5 | 5.81E+02 | 5.92 |
| PCB-143 22'3456'-HxCB | ND | | 1.1264 | | | | | 1.03 | ND | 5.81E+02 | 4.89 |
| PCB-139/140 ...-HxCB | ND | C | 1.1348 | | | | | 1.10 | ND | 5.81E+02 | 4.56 |
| PCB-131 22'33'46-HxCB | ND | | 1.1412 | | | | | 0.98 | ND | 5.81E+02 | 5.14 |
| PCB-142 22'3456-HxCB | ND | | 1.1457 | | | | | 0.97 | ND | 5.81E+02 | 5.2 |
| PCB-132 22'33'46'-HxCB | 34.12 | B | 1.1544 | 1.1548 | +0.8 | 5.90E+04 | 1.13 | 1.00 | 52.4 | 5.81E+02 | 5.02 |
| PCB-133 22'33'55'-HxCB | ND | | 1.1672 | | | | | 1.10 | ND | 5.81E+02 | 4.59 |
| PCB-165 233'55'6-HxCB | ND | | 0.9512 | | | | | 1.29 | ND | 5.81E+02 | 3.89 |
| PCB-146 22'34'55'-HxCB | 35.02 | J B | 0.9571 | 0.9566 | -1.1 | 2.08E+04 | 1.18 | 1.24 | 15 | 5.81E+02 | 4.06 |
| PCB-161 233'45'6-HxCB | ND | | 0.9601 | | | | | 1.49 | ND | 5.81E+02 | 3.37 |
| PCB-153/168 ...-HxCB | 35.60 | B C | 0.9718 | 0.9724 | +1.3 | 2.61E+05 | 1.13 | 1.34 | 174 | 5.81E+02 | 3.76 |
| PCB-141 22'3455'-HxCB | ND | | 0.9762 | | | | | 1.01 | ND | 5.81E+02 | 4.97 |
| PCB-130 22'33'45'-HxCB | ND | | 0.9857 | | | | | 0.89 | ND | 5.81E+02 | 5.65 |
| PCB-137 22'344'5-HxCB | ND | | 0.9909 | | | | | 0.97 | ND | 5.81E+02 | 5.16 |
| PCB-164 233'4'5'6-HxCB | 36.36 | J EMPC | 0.9935 | 0.9932 | -0.7 | 2.56E+04 | 1.03 | 1.52 | 15 | 5.81E+02 | 3.3 |
| PCB-163/138/129 ...-HxCB | 36.64 | B C | 1.0011 | 1.0007 | -0.9 | 1.67E+05 | 1.11 | 1.08 | 137 | 5.81E+02 | 4.64 |
| PCB-160 233'456-HxCB | ND | | 1.0045 | | | | | 1.26 | ND | 5.81E+02 | 3.98 |
| PCB-158 233'44'6-HxCB | 36.97 | J B | 1.0096 | 1.0097 | +0.2 | 3.16E+04 | 1.10 | 1.45 | 19.4 | 5.81E+02 | 3.46 |

Lab ID: B9770_21382_PCB_008-RJ

ACQ: 18-Sep-2024 19:05:31 RAB

Wt/Vol: 1

ICAL: MM4-PCB_03SEP2024 CS3_240918_PCB_SC

Client ID: Field Blank

UTP: 20-Sep-2024 10:52:57 PSW

J-level: 20 pg Split: 2

Checkcode: 861-232-VYZ/C

Datafile: 240918S09

RPT: 23-Sep-2024 11:07 pw

StdS (pg): JS: 2000 ES: 4000 CS/SS: 4000

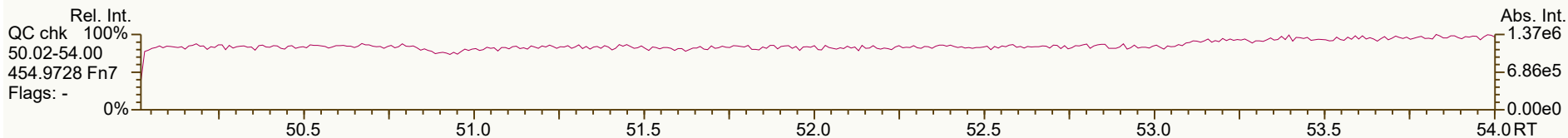
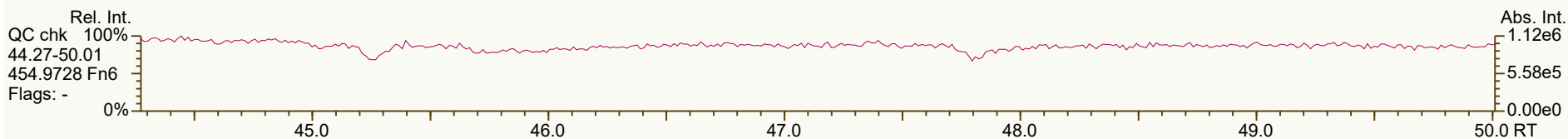
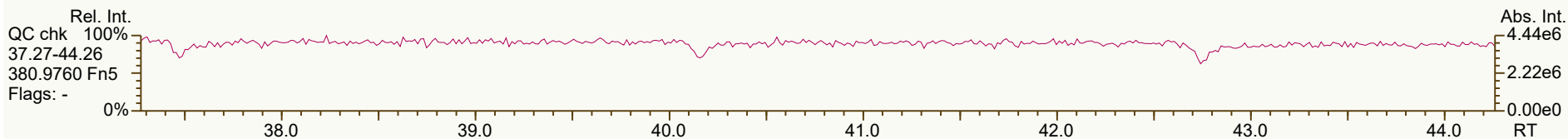
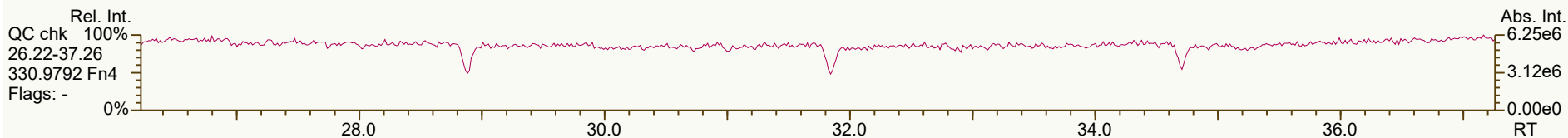
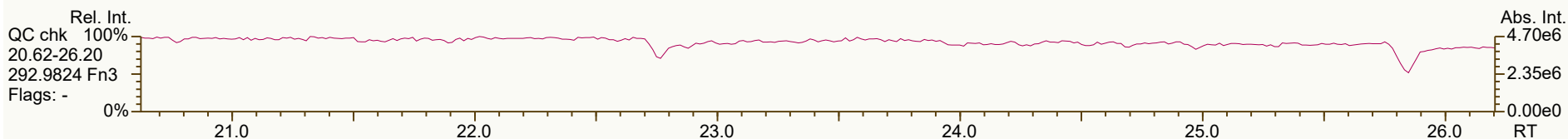
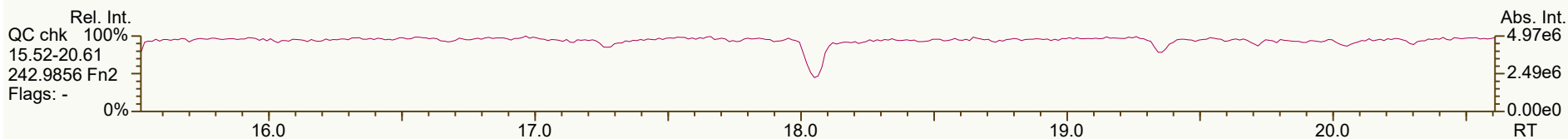
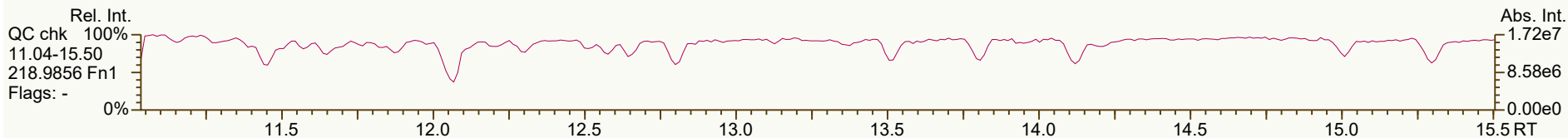
Method 1668C

| Name | Actual RT | QC | Pred RRT | Actual RRT | Diff Secs | Response | Ra | RRF | Conc. / Recv. | Noise / Recv. Low | DL / Recv. High |
|-----------------------------|-------------------|----------|-------------------|-------------------|--------------|---------------------|-----------------|-----------------|-------------------|----------------------|--------------------|
| PCB-128/166 ...-HxCB | ND | C | 0.9635 | | | | | 0.90 | ND | 9.59E+02 | 7.39 |
| PCB-159 233'455'-HxCB | ND | | 0.9840 | | | | | 1.19 | ND | 9.59E+02 | 5.58 |
| PCB-162 233'4'55'-HxCB | ND | | 0.9902 | | | | | 1.01 | ND | 9.59E+02 | 6.55 |
| PCB-188 22'34'566'-HpCB | ND | | 1.0006 | | | | | 1.55 | ND | 5.26E+02 | 4.26 |
| PCB-179 22'33'566'-HpCB | 34.74 | B EMPC | 1.0095 | 1.0097 | +0.4 | 3.35E+04 | 1.38 | 1.32 | 33.6 | 5.26E+02 | 4.98 |
| PCB-184 22'344'66'-HpCB | ND | | 1.0219 | | | | | 1.26 | ND | 5.26E+02 | 5.21 |
| PCB-176 22'33'466'-HpCB | ND | | 1.0312 | | | | | 1.15 | ND | 5.26E+02 | 5.7 |
| PCB-186 22'34566'-HpCB | ND | | 1.0427 | | | | | 1.37 | ND | 5.26E+02 | 4.8 |
| PCB-178 22'33'55'6'-HpCB | ND | | 1.0752 | | | | | 0.92 | ND | 5.26E+02 | 7.12 |
| PCB-175 22'33'45'6'-HpCB | ND | | 1.0908 | | | | | 0.99 | ND | 8.96E+02 | 6.8 |
| PCB-187 22'34'55'6'-HpCB | 37.76 | B EMPC | 1.0974 | 1.0973 | -0.2 | 7.34E+04 | 1.20 | 1.22 | 49.7 | 8.96E+02 | 5.49 |
| PCB-182 22'344'56'-HpCB | ND | | 1.1024 | | | | | 1.18 | ND | 8.96E+02 | 5.68 |
| PCB-183 22'344'5'6'-HpCB | 38.28 | B | 1.1124 | 1.1123 | -0.2 | 3.27E+04 | 1.18 | 1.13 | 23.9 | 8.96E+02 | 5.92 |
| PCB-185 22'3455'6'-HpCB | ND | | 1.1152 | | | | | 0.93 | ND | 8.96E+02 | 7.18 |
| PCB-174 22'33'456'-HpCB | 38.49 | B EMPC | 1.1187 | 1.1187 | 0 | 3.56E+04 | 1.44 | 1.03 | 28.6 | 8.96E+02 | 6.5 |
| PCB-177 22'33'45'6'-HpCB | 38.86 | J EMPC | 1.1296 | 1.1293 | -0.7 | 1.39E+04 | 1.44 | 1.04 | 11.1 | 8.96E+02 | 6.43 |
| PCB-181 22'344'56'-HpCB | ND | | 1.1391 | | | | | 1.13 | ND | 8.96E+02 | 5.96 |
| PCB-171/173 ...-HpCB | 39.38 | J C | 1.1447 | 1.1446 | -0.2 | 8.83E+03 | 0.97 | 0.94 | 7.76 | 8.96E+02 | 7.12 |
| PCB-172 22'33'455'-HpCB | ND | | 0.9065 | | | | | 1.00 | ND | 8.96E+02 | 6.74 |
| PCB-192 233'455'6'-HpCB | ND | | 0.9118 | | | | | 1.43 | ND | 8.96E+02 | 4.68 |
| PCB-180/193 ...-HpCB | 41.27 | B EMPC C | 0.9181 | 0.9185 | +1.0 | 7.34E+04 | 1.26 | 1.17 | 52.1 | 8.96E+02 | 5.75 |
| PCB-191 233'44'5'6'-HpCB | ND | | 0.9253 | | | | | 1.27 | ND | 8.96E+02 | 5.3 |
| PCB-170 22'33'44'5'-HpCB | 42.35 | J B EMPC | 0.9427 | 0.9426 | -0.3 | 1.06E+04 | 2.05 | 1.09 | 9.12 | 8.96E+02 | 8.07 |
| PCB-190 233'44'56'-HpCB | ND | | 0.9525 | | | | | 1.50 | ND | 8.96E+02 | 5.84 |
| PCB-202 22'33'55'66'-OcCB | ND | | 1.0005 | | | | | 1.32 | ND | 5.85E+02 | 4.45 |
| PCB-201 22'33'45'66'-OcCB | ND | | 1.0204 | | | | | 1.00 | ND | 5.85E+02 | 5.89 |
| PCB-204 22'344'566'-OcCB | ND | | 1.0349 | | | | | 1.13 | ND | 5.85E+02 | 5.21 |
| PCB-197 22'33'44'66'-OcCB | ND | | 1.0399 | | | | | 1.04 | ND | 5.85E+02 | 5.63 |
| PCB-200 22'33'4566'-OcCB | ND | | 1.0428 | | | | | 1.05 | ND | 5.85E+02 | 5.57 |
| PCB-198/199 ...-OcCB | ND | C | 1.1020 | | | | | 0.89 | ND | 5.85E+02 | 6.62 |
| PCB-196 22'33'44'56'-OcCB | ND | | 1.1166 | | | | | 0.83 | ND | 5.85E+02 | 7.11 |
| PCB-203 22'344'55'6'-OcCB | ND | | 1.1208 | | | | | 0.99 | ND | 5.85E+02 | 5.9 |
| PCB-195 22'33'44'56'-OcCB | ND | | 0.9499 | | | | | 0.82 | ND | 8.57E+02 | 9.78 |
| PCB-194 22'33'44'55'-OcCB | ND | | 0.9914 | | | | | 0.85 | ND | 8.57E+02 | 9.36 |
| PCB-205 233'44'55'6'-OcCB | ND | | 1.0004 | | | | | 1.12 | ND | 8.57E+02 | 7.14 |
| PCB-208 22'33'455'66'-NoCB | ND | | 1.0005 | | | | | 1.11 | ND | 2.63E+03 | 18.8 |
| PCB-207 22'33'44'566'-NoCB | ND | | 1.0180 | | | | | 0.91 | ND | 2.63E+03 | 22.9 |
| PCB-206 22'33'44'55'6'-NoCB | ND | | 1.0005 | | | | | 1.04 | ND | 2.63E+03 | 36 |
| AS PCB-32 FS | 19.921 | | 1.2584 | 1.2586 | +0.2 | 6.12E+06 | 1.06 | 0.77 | 83.1 % | 50% | 150% |
| AS PCB-97 FS | 30.693 | | 1.0317 | 1.0317 | 0 | 3.75E+06 | 1.55 | 0.86 | 70.7 % | 50% | 150% |
| AS PCB-159 NR | 38.486 | | 1.0511 | 1.0511 | 0 | 6.93E+06 | 1.10 | 1.57 | 82.3 % | 50% | 150% |
| | | | | | | | | | | 70% | 130% |

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_008-RJ.utp_res, saved 20-Sep-2024 10:59 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q scc: 861-232

Peak annotation: Areas, Centroids
PKD: n/a Printed: 20-Sep-2024 11:07 Page 1 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



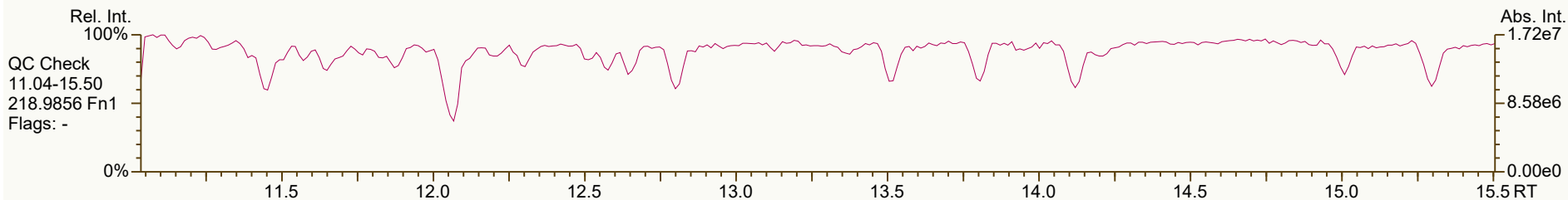
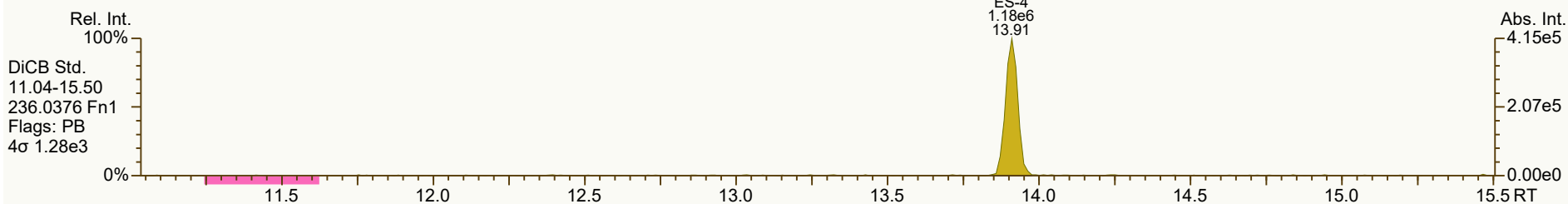
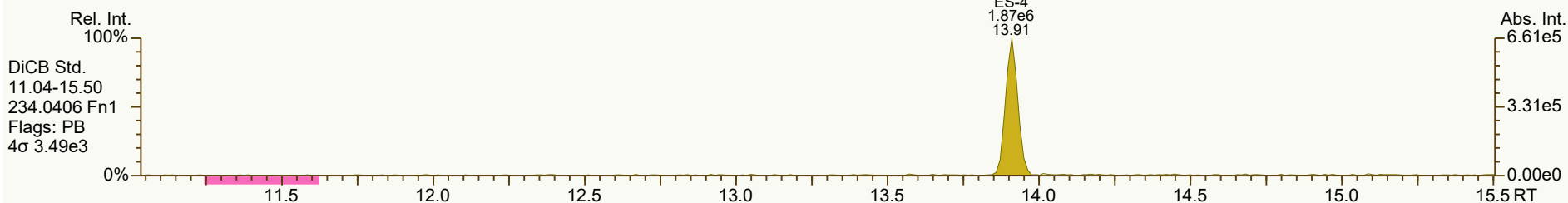
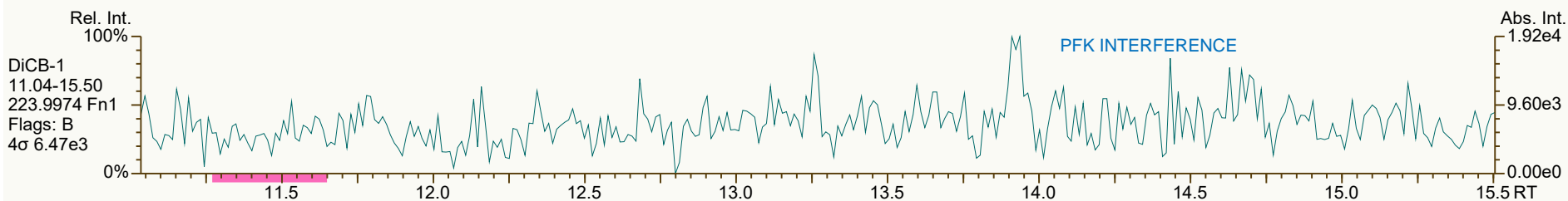
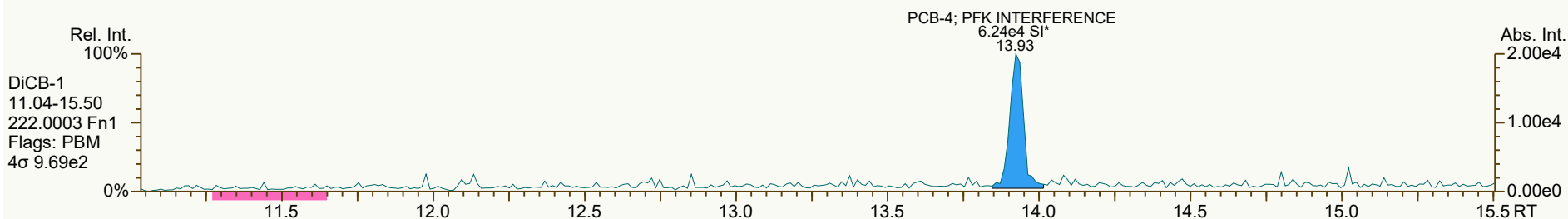
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4999, 6532 scc: 861-232

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 2 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2997, 5757 scc: 861-232

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:38 (PSW) Printed: 20-Sep-2024 11:07 Page 3 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



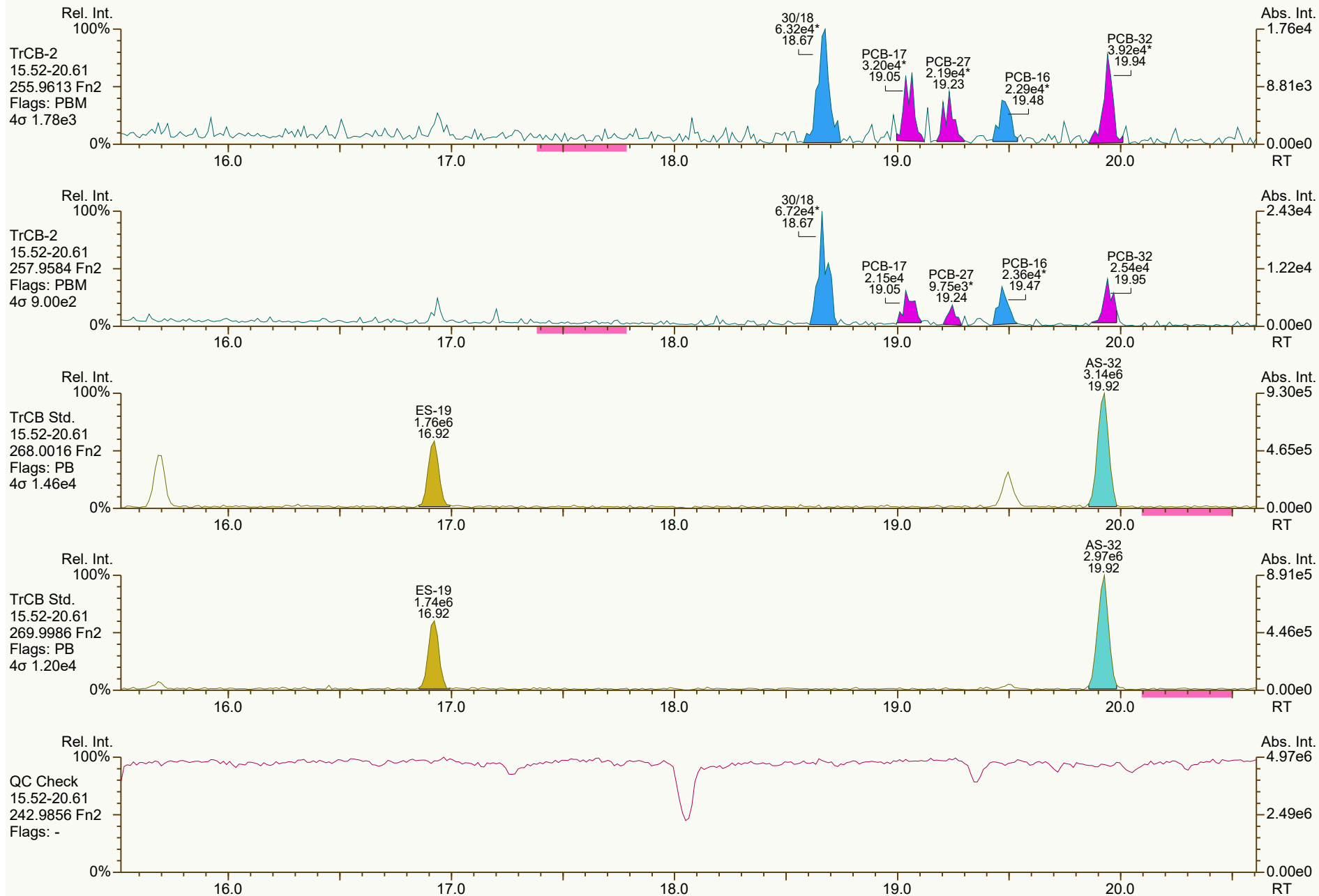
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 4 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



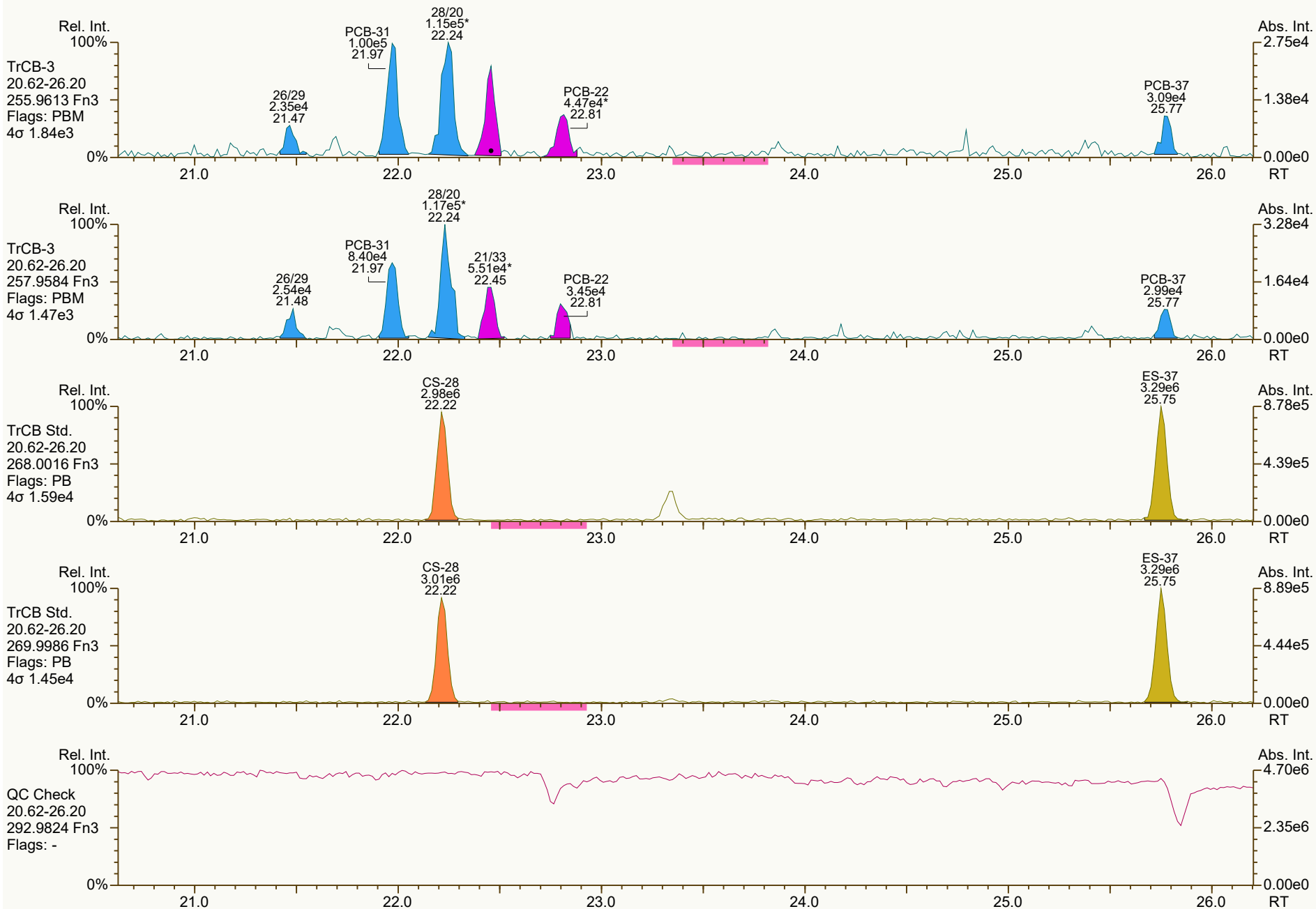
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8261, 4158 scc: 861-232

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 5 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 6 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



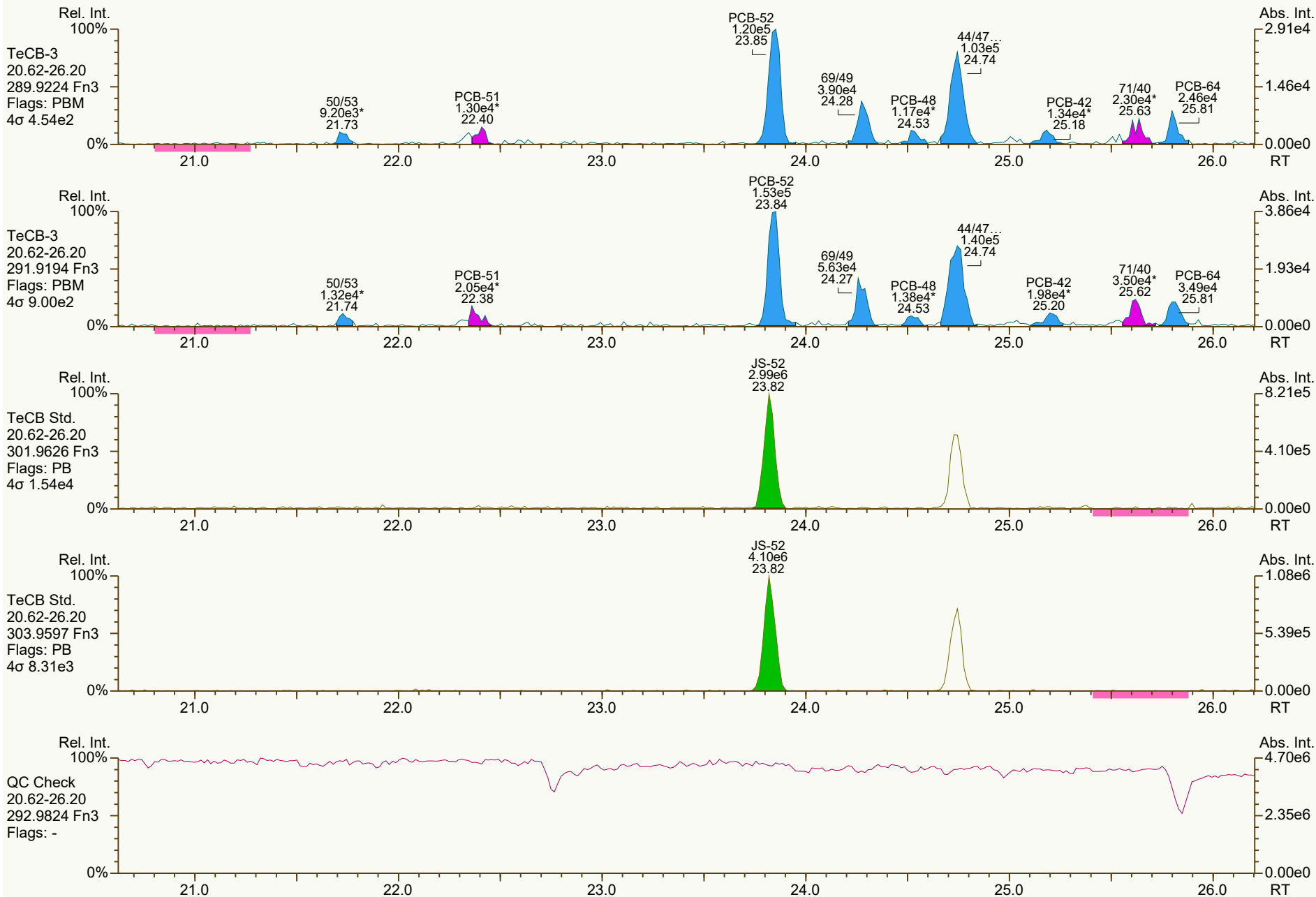
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7095, 7510 scc: 861-232

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:38 (PSW) Printed: 20-Sep-2024 11:07 Page 7 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



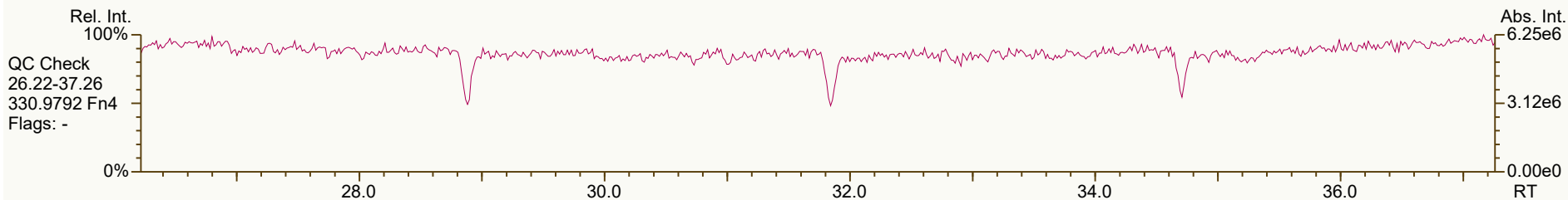
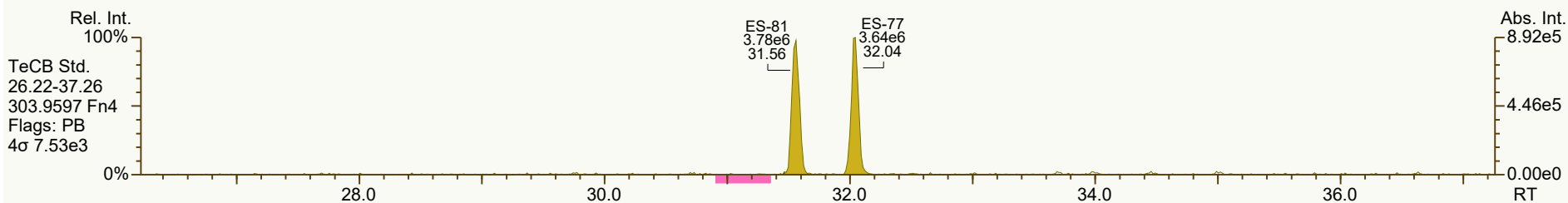
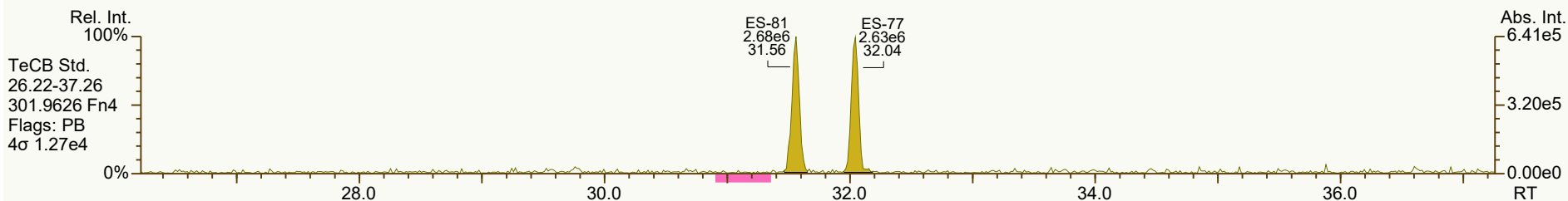
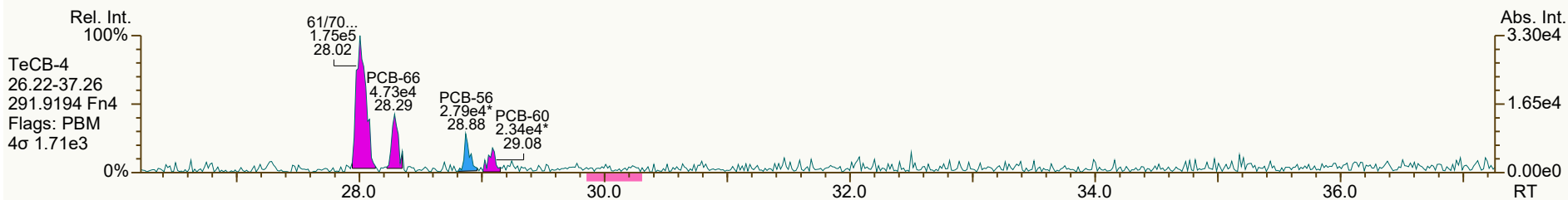
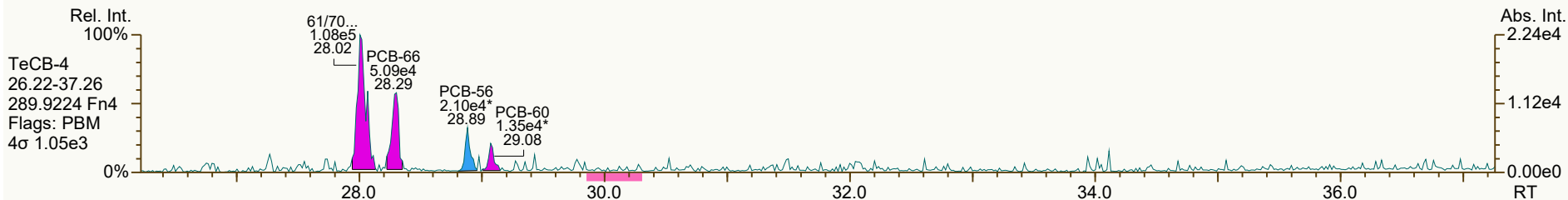
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 0594, 5279 scc: 861-232

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 8 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



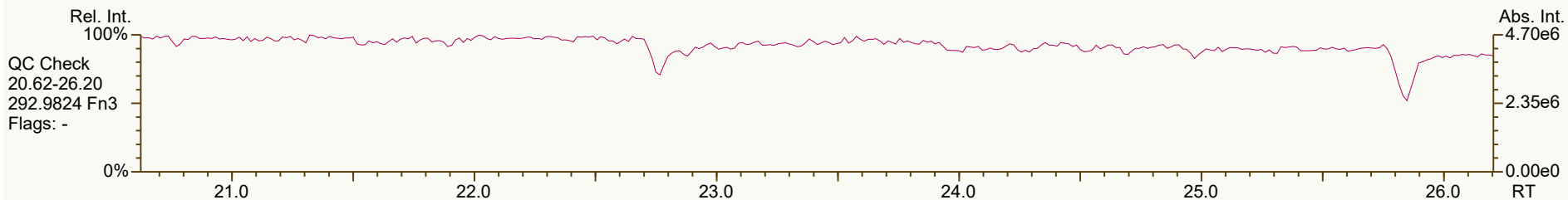
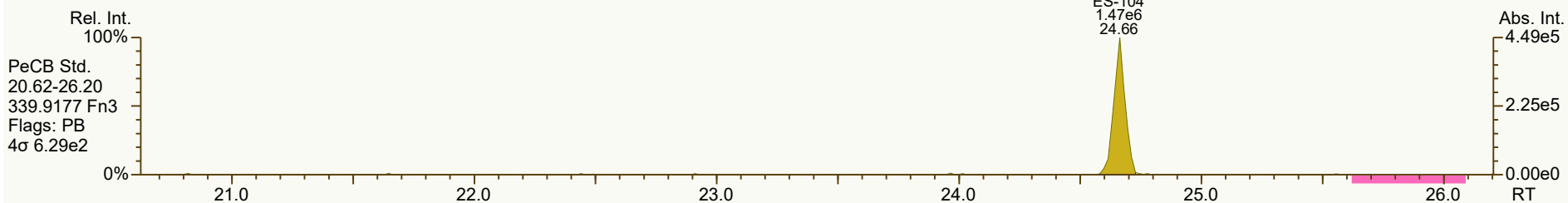
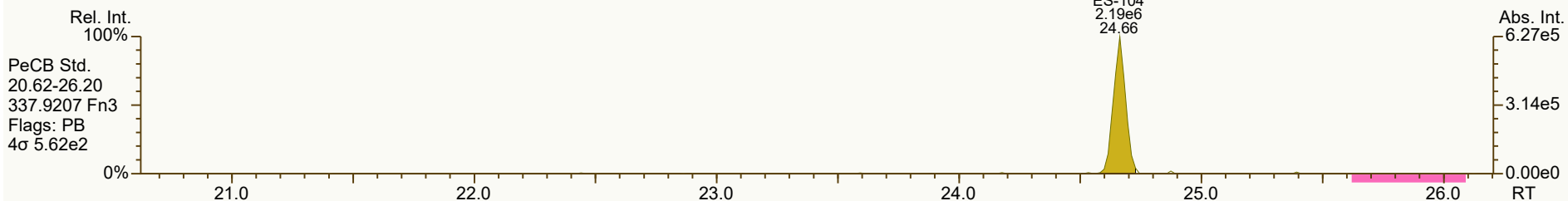
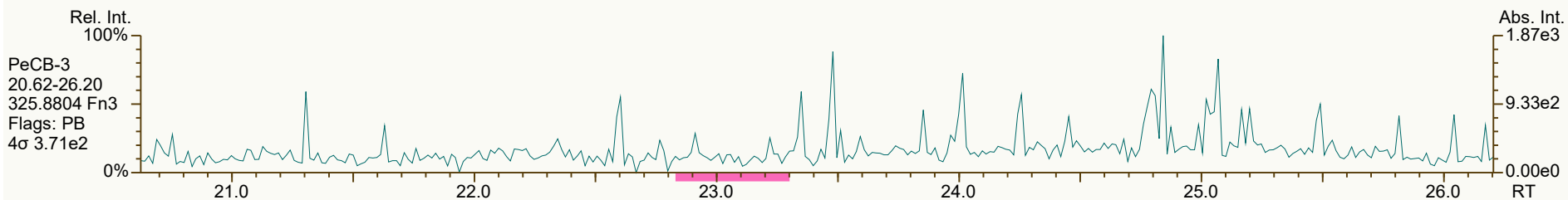
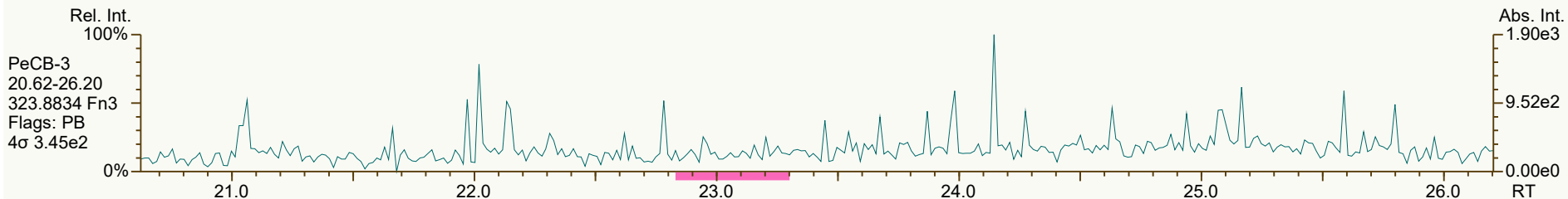
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 5344, 8779 scc: 861-232

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 9 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



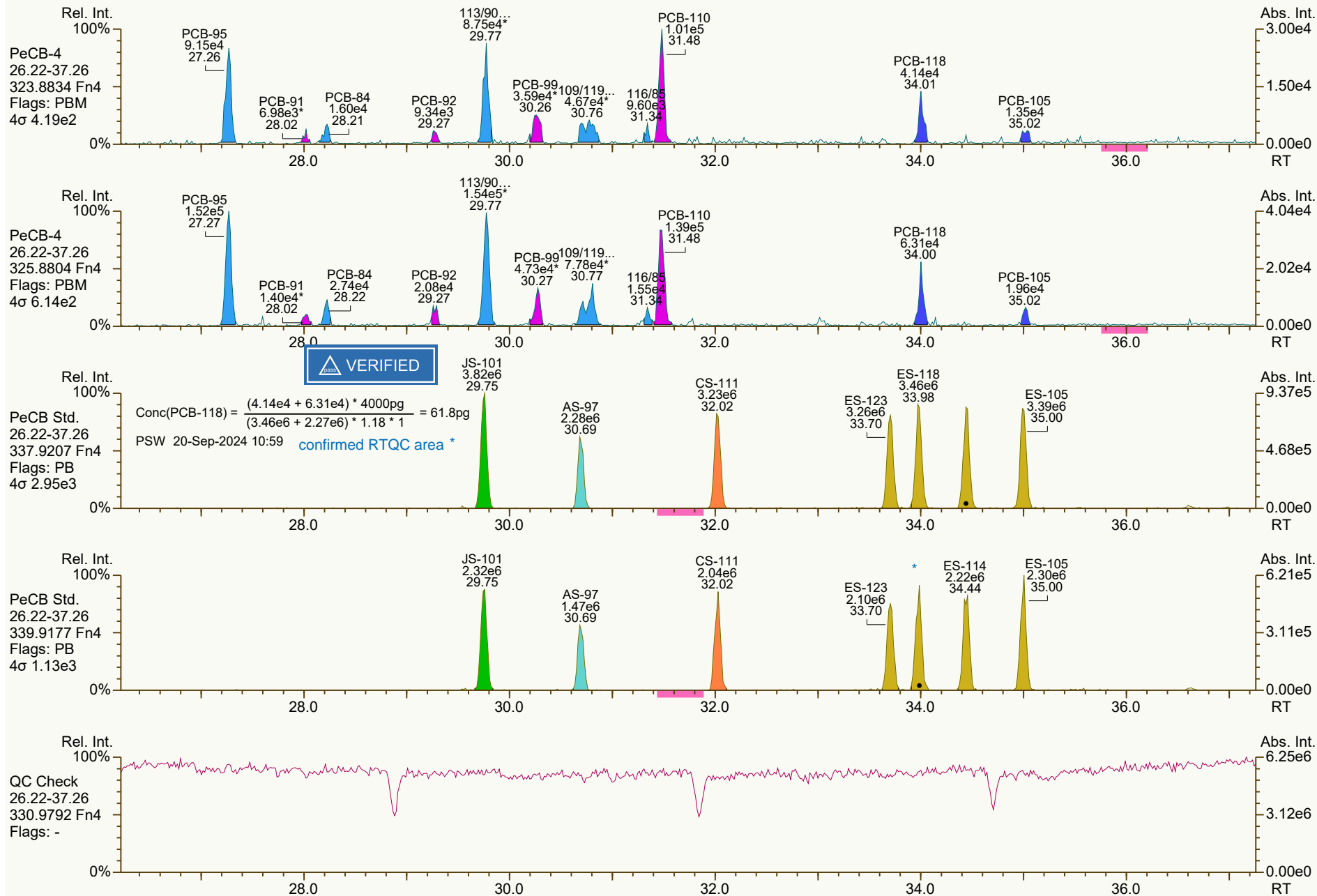
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 3883, 6207 scc: 861-232

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:38 (PSW) Printed: 20-Sep-2024 11:07 Page 10 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



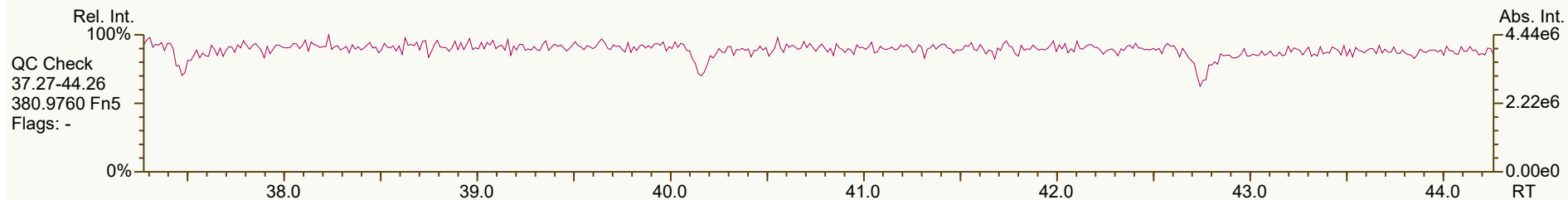
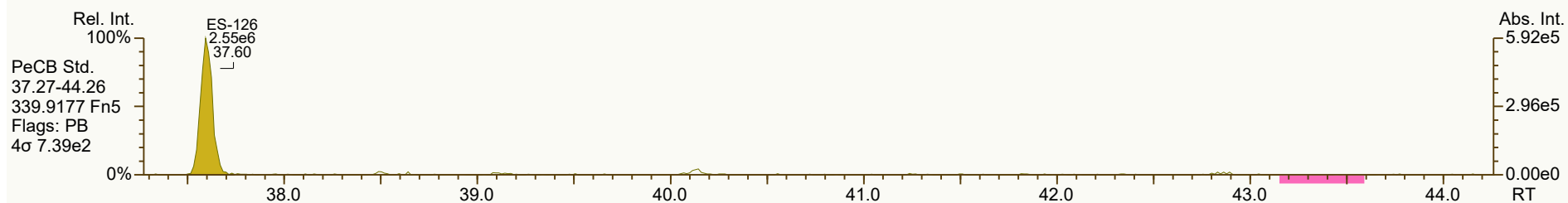
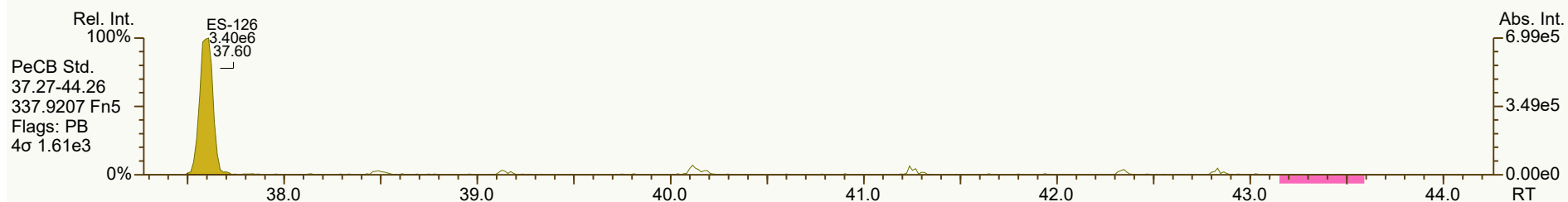
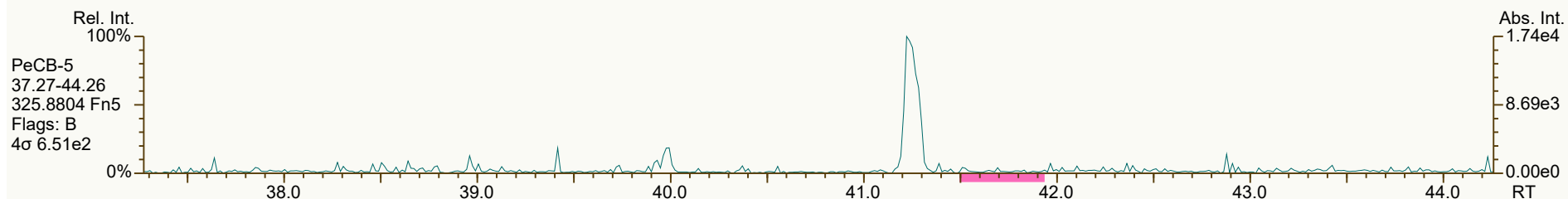
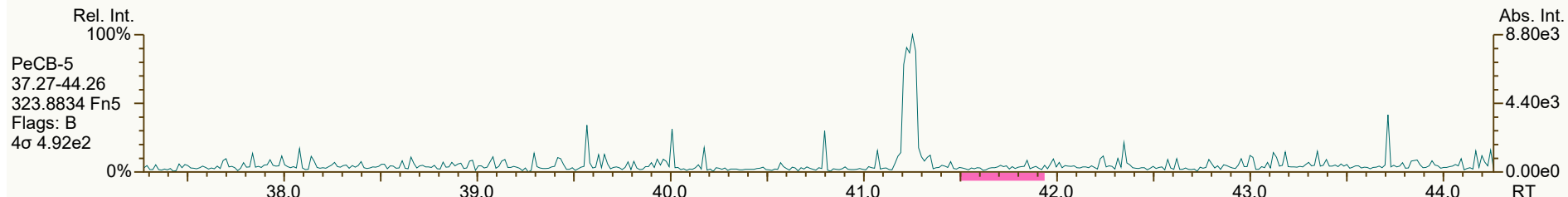
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8037, 5303 scc: 861-232

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 11 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 12 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



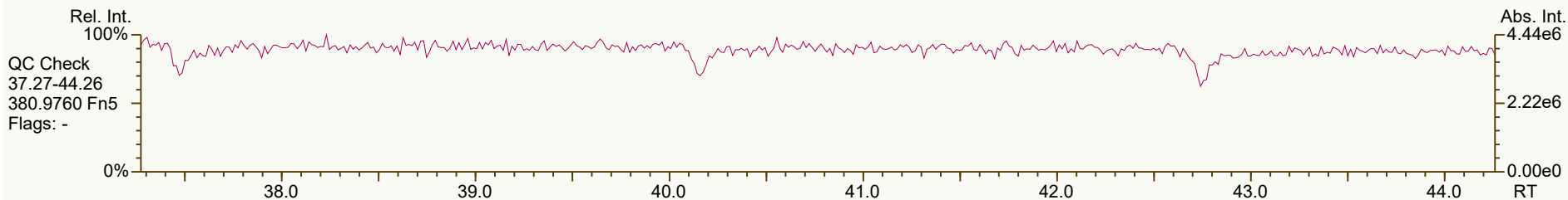
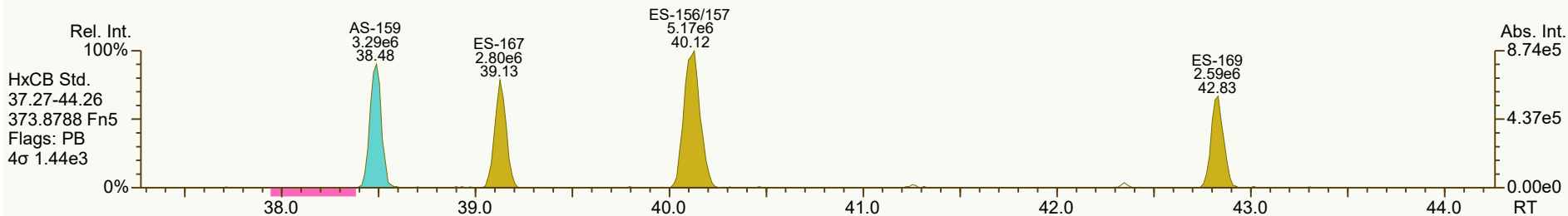
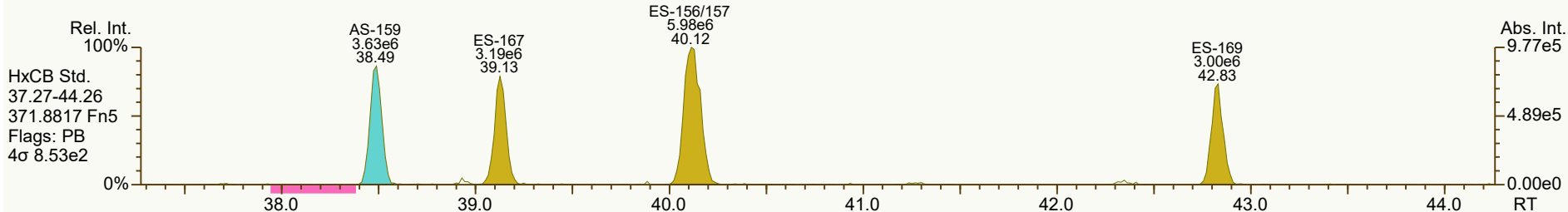
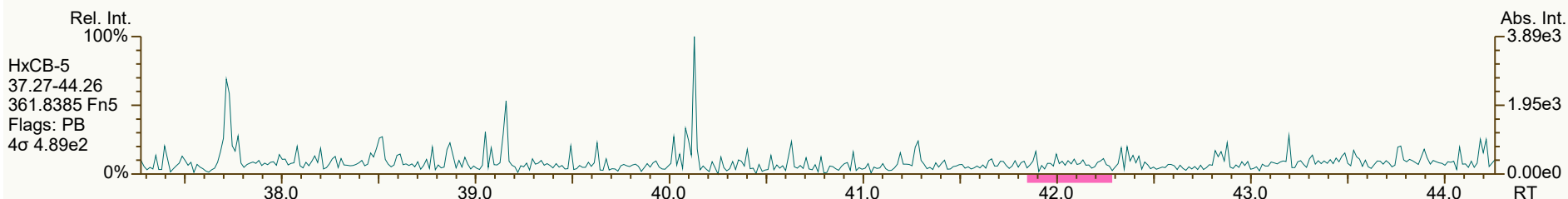
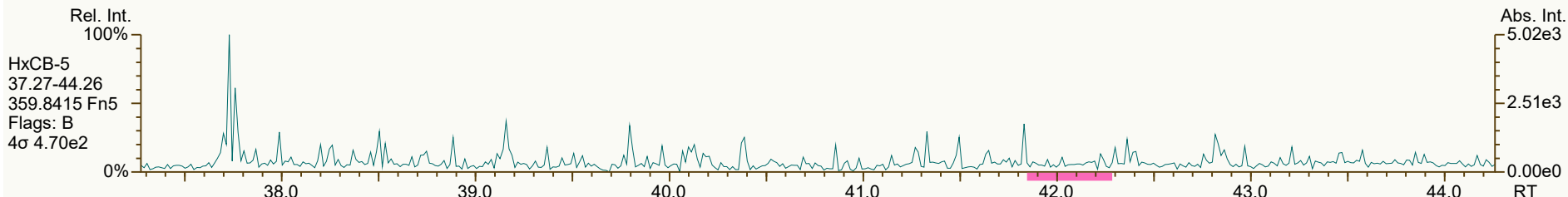
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 13 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



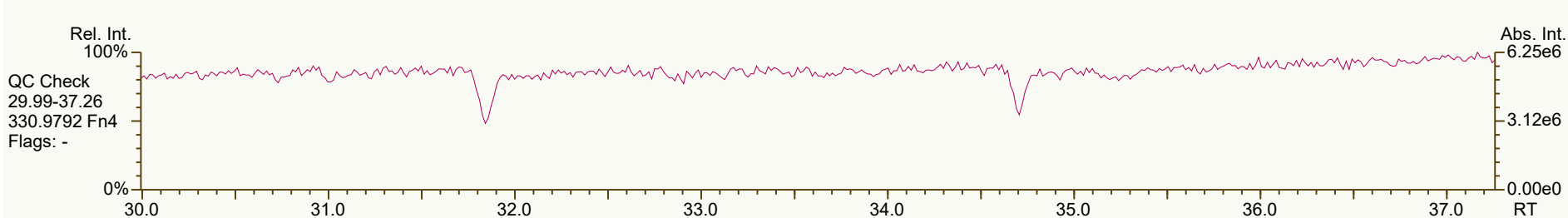
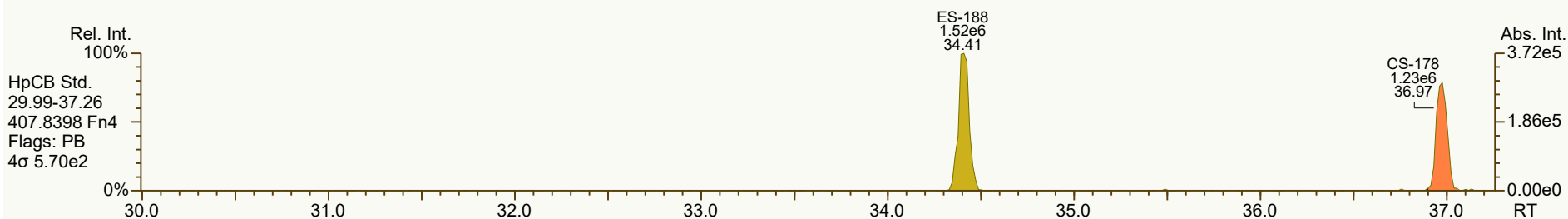
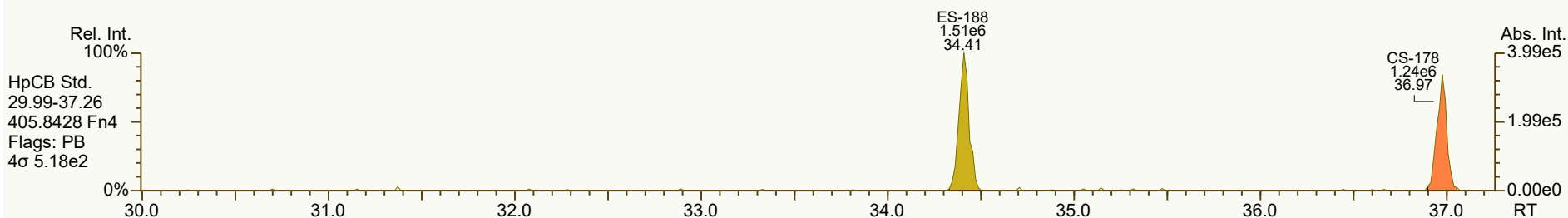
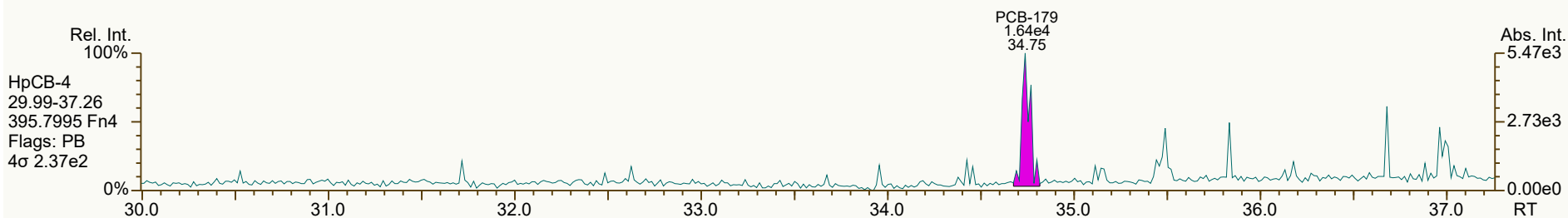
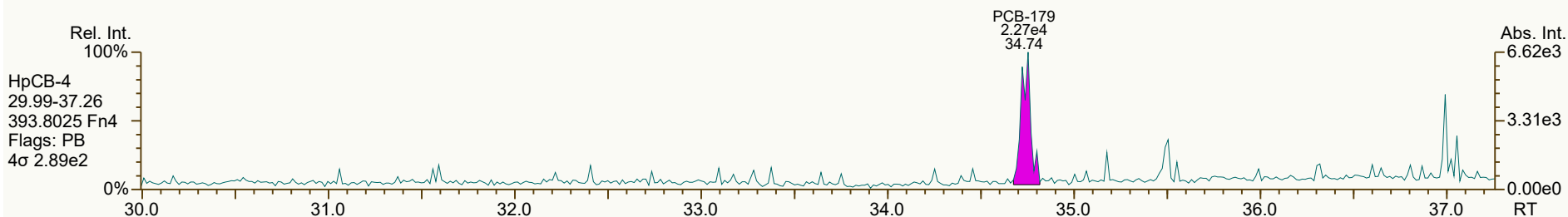
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 14 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_008-RJ.utp_res, saved 20-Sep-2024 10:59 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9431, 8372 scc: 861-232

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 15 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



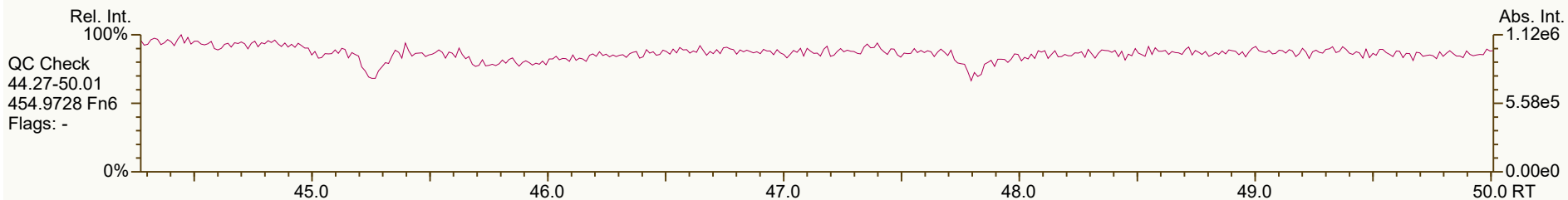
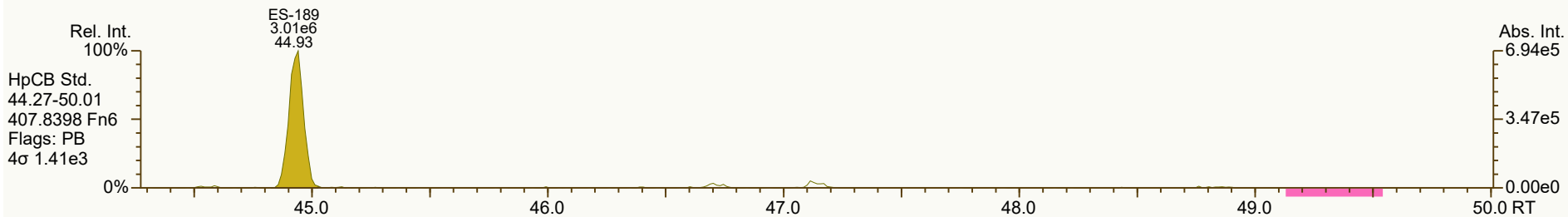
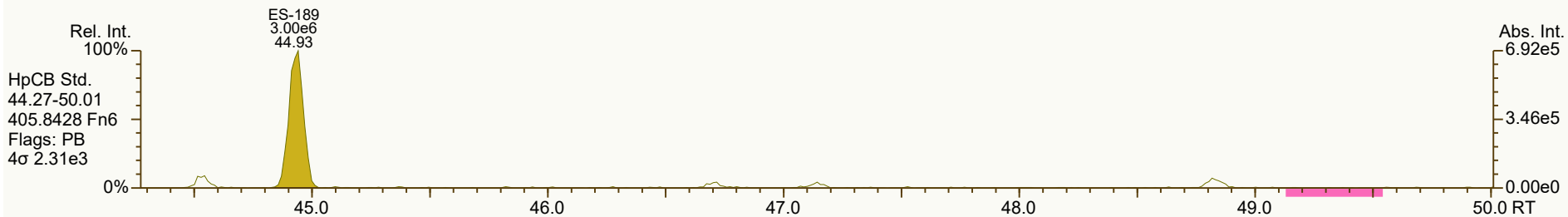
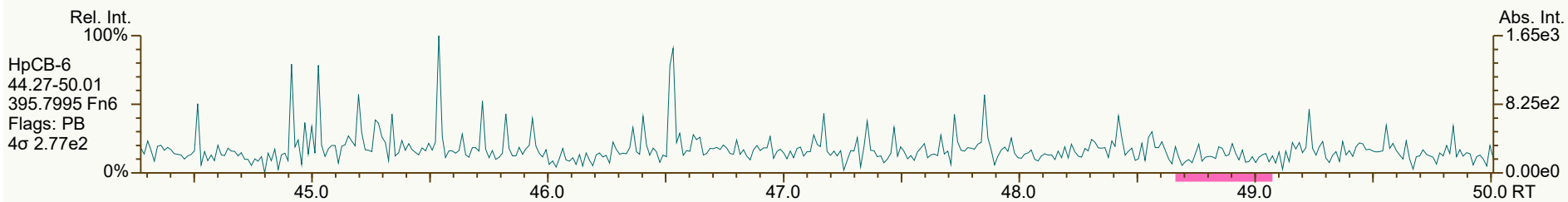
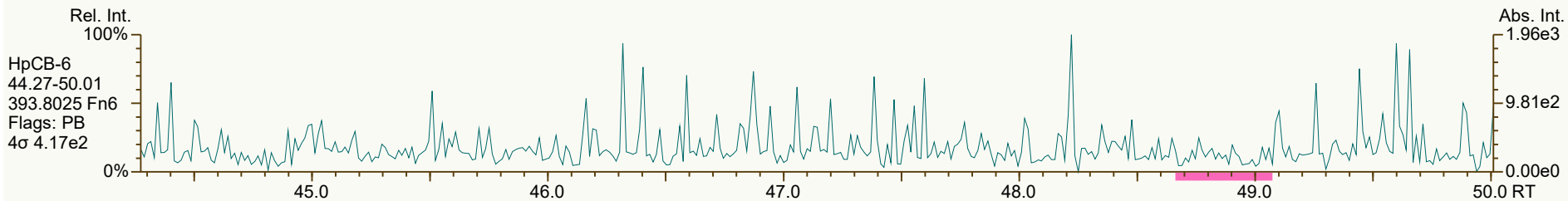
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2407, 7838 scc: 861-232

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 16 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



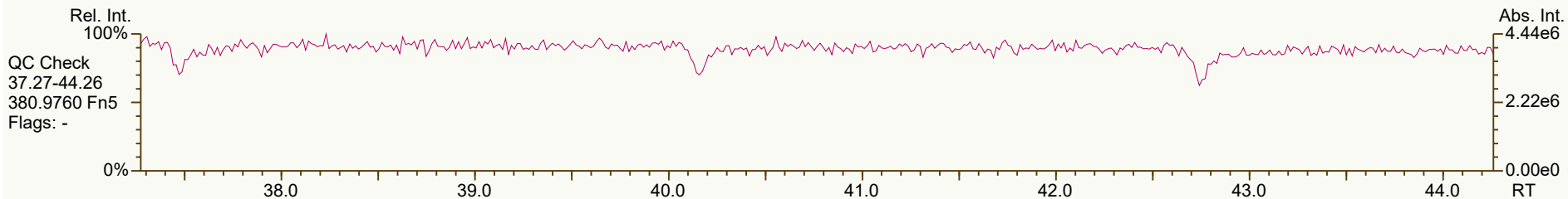
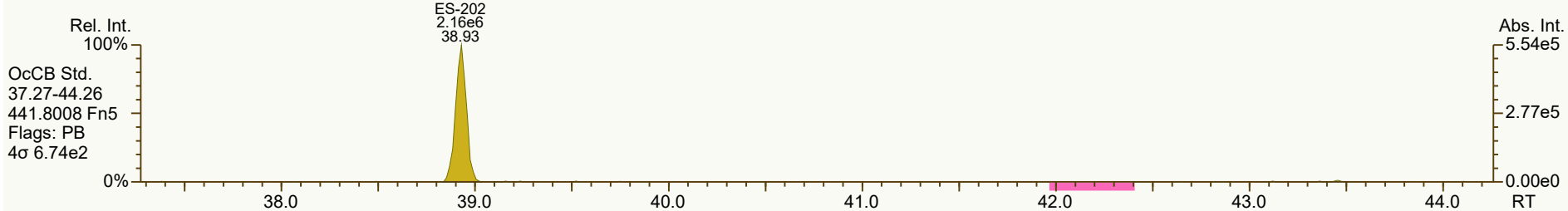
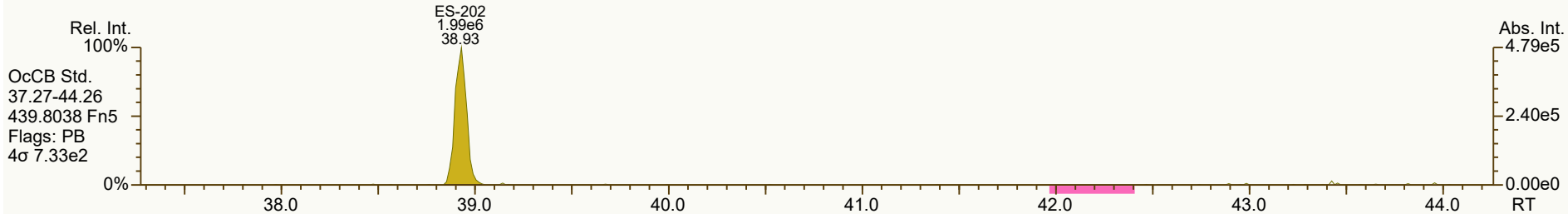
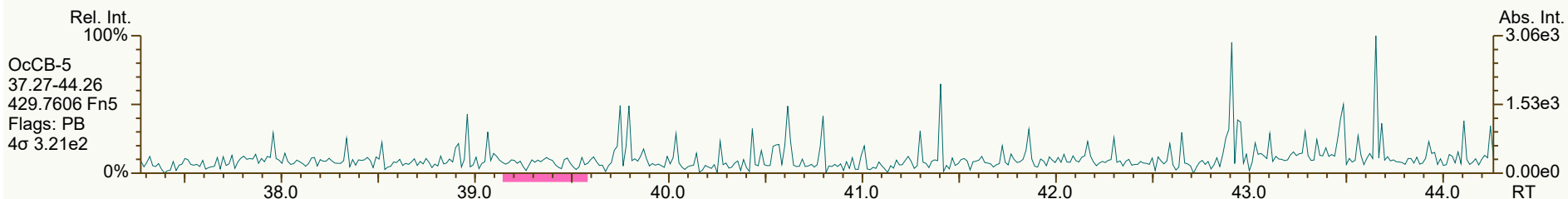
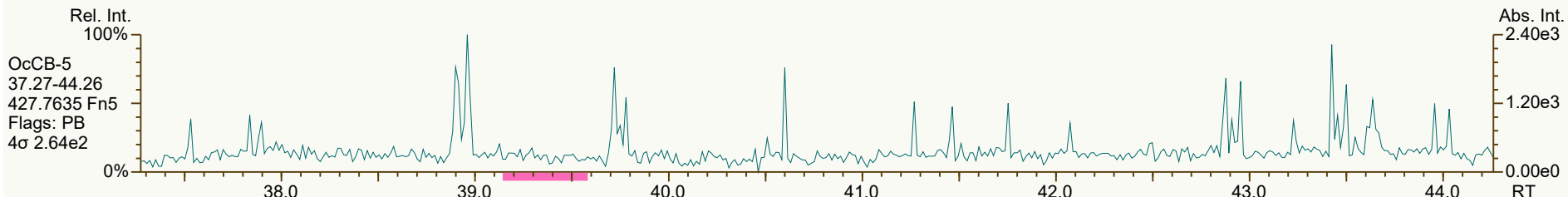
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 17 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



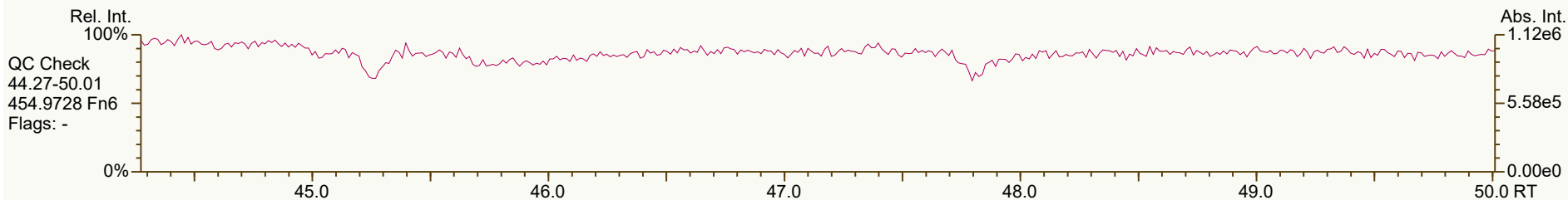
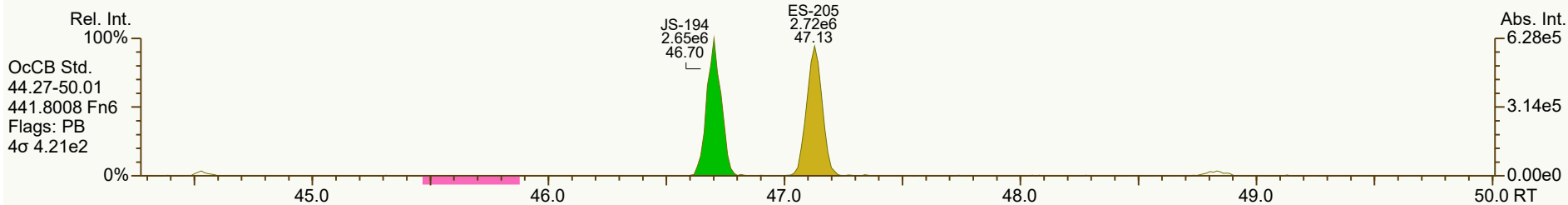
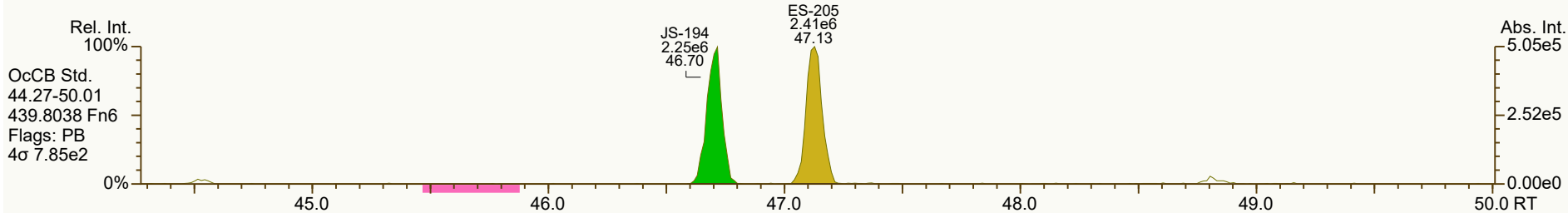
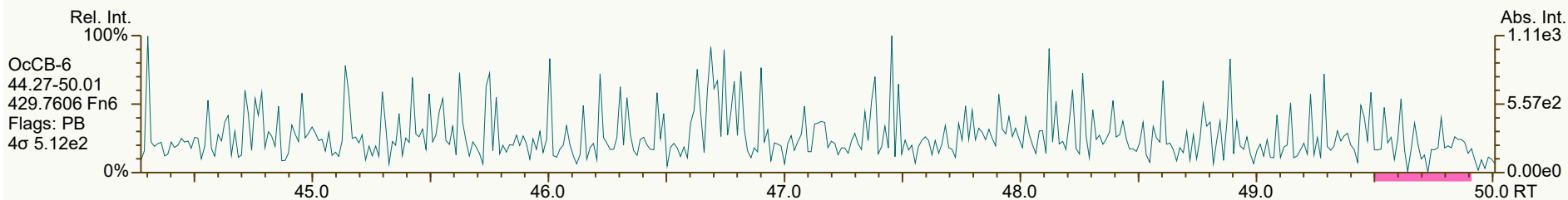
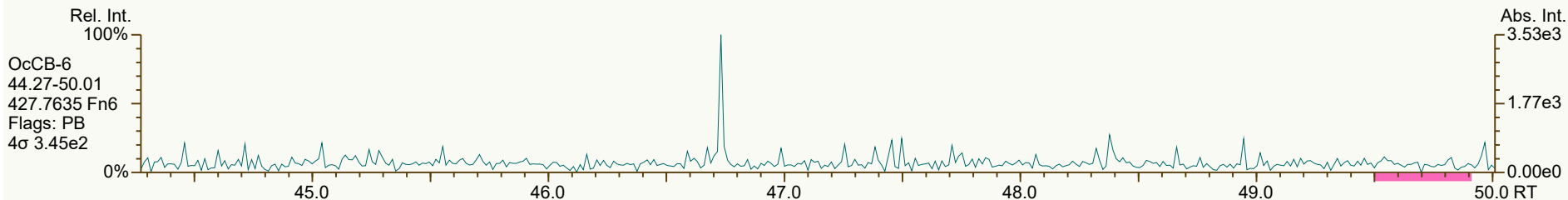
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6559, 0444 scc: 861-232

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 18 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



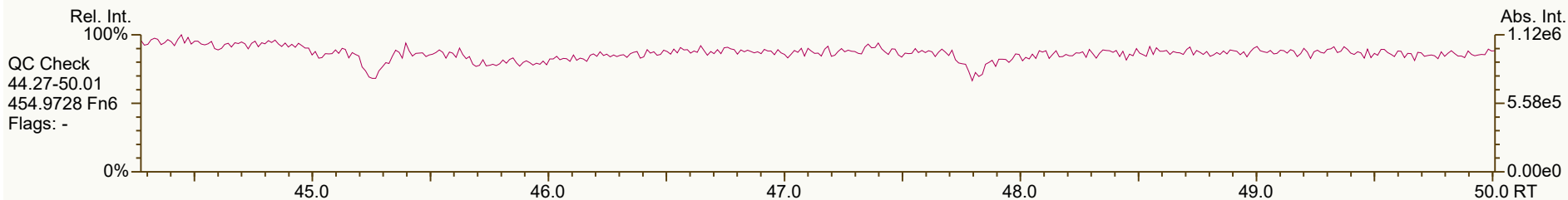
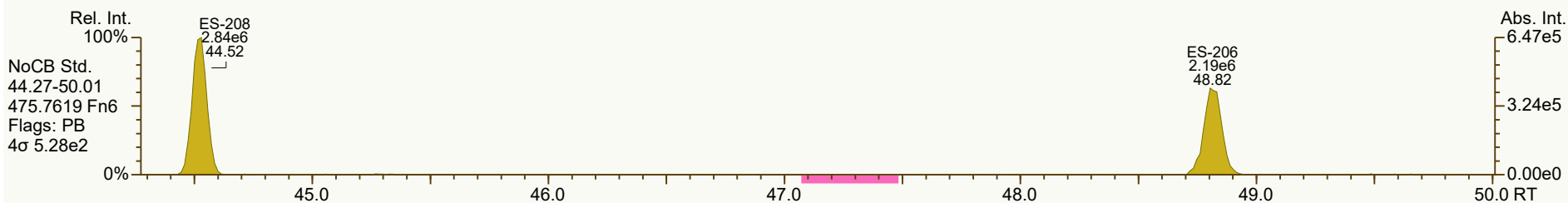
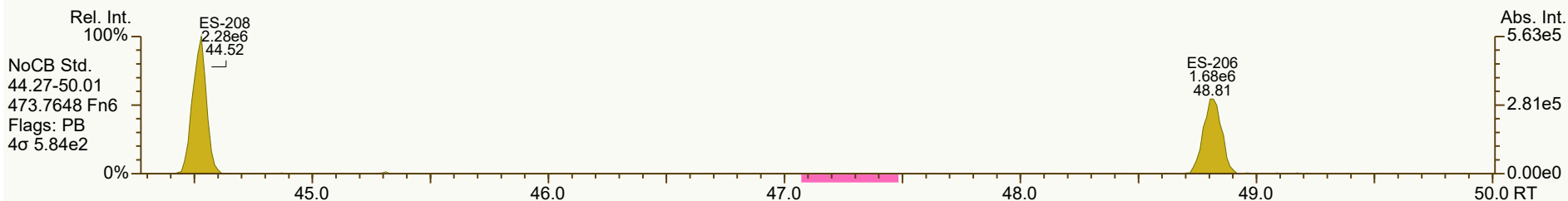
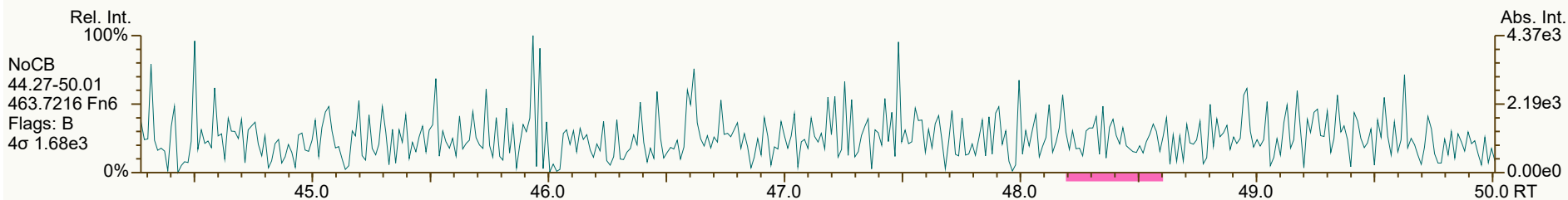
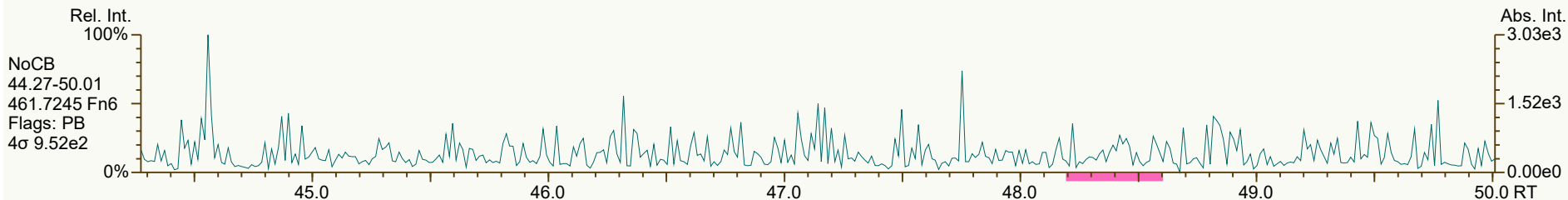
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 3898, 7171 scc: 861-232

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 19 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



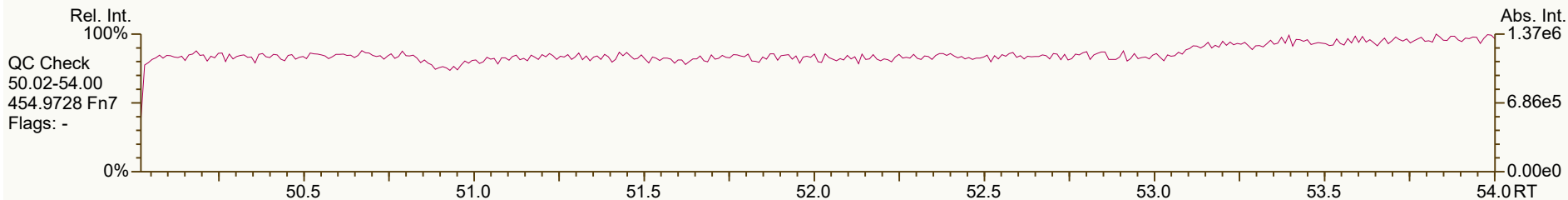
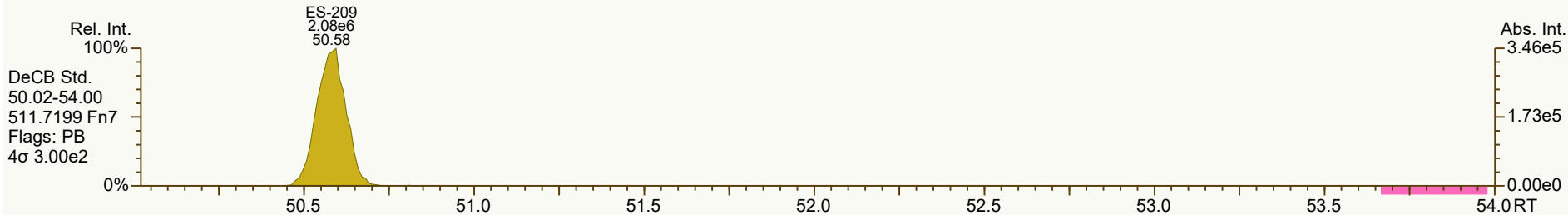
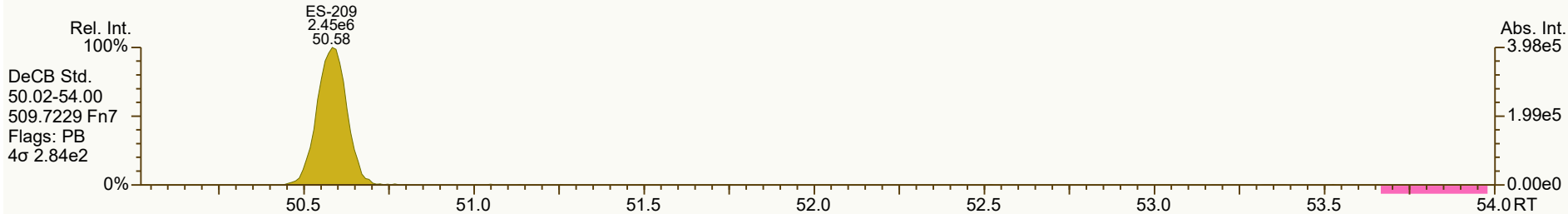
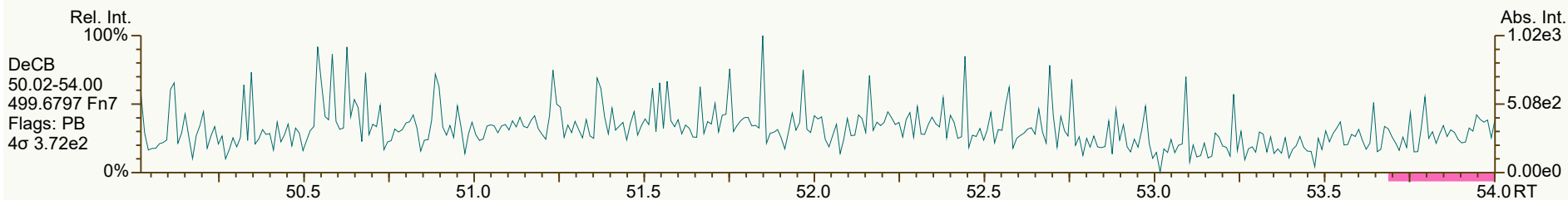
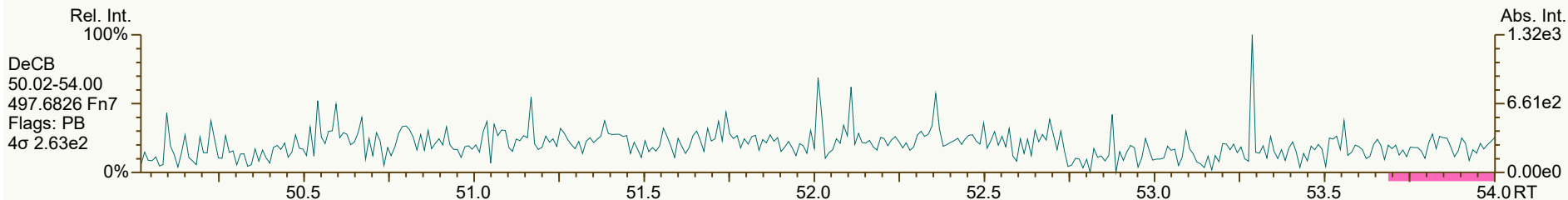
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 10:52 Printed: 20-Sep-2024 11:07 Page 20 of 21

SGS ID: B9770_21382_PCB_008-RJ
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Field Blank
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 77

Acq: 18-Sep-2024 19:05:31
User: RAB Datafile: 240918S09



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\B9770_21382_PCB_008-RJ.utp_res, saved 20-Sep-2024 10:59 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9051, 0608 scc: 861-232

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 10:38 (PSW) Printed: 20-Sep-2024 11:07 Page 21 of 21

SGS Environmental Services — Run Log

Project: B9770_21382_PAH

Instrument: MM6 (AutoSpec-Premier)

MS Experiment: pah

GC Program: pah

| # | Datafile | Vial# | Lab ID | Wt/Vol | Client/Sample ID | Analyst(s) | Checkcode | Acq Date | Acq Time |
|---------------|----------------------|---------------|------------------------------|-----------------|---------------------------------|----------------|--------------------|------------------------|---------------------|
| 2 | 240919V02 | 5 | CS3_240919_PAH_VA | 1.00 | 27-80-3 | DTF | 527-777 | 19-Sep-2024 | 12:18:20 |
| 3 | 240919V03 | 40 | BCS3_21382_PAH_VA | 1.00 | BCS3_21382_PAH_VA NR | DTF | 942-937 | 19-Sep-2024 | 14:00:44 |
| 4 | 240919V04 | 4 | SB_240918_PAH_VA | 1.00 | Isooctane | DTF | 260-477 | 19-Sep-2024 | 14:44:31 |
| 5 | 240919V06 | 41 | MB1_21382_PAH_SDS | 1.00 | Method Blank | DTF | 526-812 | 19-Sep-2024 | 16:17:49 |
| 6 | 240919V14 | 49 | B9770_21382_PAH_008 | 1.00 | Field Blank | DTF | 258-537 | 19-Sep-2024 | 22:31:07 |
| 15 | 240919V15 | 40 | BCS3_21382_PAH_VB | 1.00 | BCS3_21382_PAH_VB | DTF | 848-077 | 19-Sep-2024 | 23:17:46 |
| 16 | 240919V16 | 5 | CS3_240919_PAH_VB | 1.00 | 27-80-3 | DTF | 497-786 | 20-Sep-2024 | 00:08:29 |
| 17 | 240919V17 | 50 | B9770_21382_PAH_001-D10 | 1.00 | Test#1 Mill Off | DTF | 895-251 | 20-Sep-2024 | 00:52:17 |
| 18 | 240919V18 | 51 | B9770_21382_PAH_002-D10 | 1.00 | Test#1 Mill On | DTF | 497-948 | 20-Sep-2024 | 01:38:57 |
| 20 | 240919V20 | 53 | B9770_21382_PAH_004-D10 | 1.00 | Test#3 Mill On | DTF | 460-335 | 20-Sep-2024 | 03:12:16 |
| 21 | 240919V21 | 54 | B9770_21382_PAH_005-D10 | 1.00 | Test#2 Mill Off | DTF | 378-188 | 20-Sep-2024 | 03:59:00 |
| 22 | 240919V22 | 55 | B9770_21382_PAH_006-D10 | 1.00 | Test#4 Mill On | DTF | 758-697 | 20-Sep-2024 | 04:45:45 |
| 23 | 240919V23 | 56 | B9770_21382_PAH_007-D10 | 1.00 | Test#5 Mill On | DTF | 219-876 | 20-Sep-2024 | 05:32:25 |
| 25 | 240919V25 | 40 | BCS3_21382_PAH_VC | 1.00 | BCS3_21382_PAH_VC | DTF | 144-806 | 20-Sep-2024 | 07:05:44 |
| 0 | 240925V01 | 5 | CS3_240925_PAH_VA | 1.00 | 27-80-3 | DTF | 452-725 | 25-Sep-2024 | 10:17:30 |
| 1 | 240925V02 | 4 | SB_240925_PAH_VA | 1.00 | Isooctane | DTF | 453-148 | 25-Sep-2024 | 11:10:05 |
| 2 | 240925V03 | 58 | MB1_21382_PAH_SDS-AR1 | 1.00 | Method Blank | DTF | 311-444 | 25-Sep-2024 | 11:53:50 |
| 3 | 240925V04 | 59 | B9770_21382_PAH_003-AR1-D10 | 1.00 | Test#2 Mill On | DTF | 821-451 | 25-Sep-2024 | 12:40:27 |

REVIEWED

Tyler_Fritz , 9/26/2024, 1:36:13 PM

ICAL did not meet SOP or Method % RSD criteria for Acenaphthylene, Benzo(k)Fluoranthene, Benzo(a)Pyrene or Perylene

Acenaphthylene, 13C6-Naphthalene, 13C6-Chrysene and SS - Terphenyl did not meet SOP or method criteria in CS3_240919_PAH_VA and CS3_240919_PAH_VB

FS - Anthracene did not meet SOP or method criteria in CS3_240925_PAH_VA.

Samples and Method Blank were quantitated against the ICAL RRFs

REVIEWED

Carla_Lyon , 9/27/2024, 1:46:54 PM

Printed: 26-Sep-24 13:12

MM6 PAH ICAL 05MAR2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|------------------------|-------|----------|----|------|------|-------|
| Naphthalene | 10.49 | 8.32E+07 | - | 0.99 | 1.05 | 5.4% |
| 2-Methylnaphthalene | 13.04 | 5.33E+07 | - | 1.01 | 1.17 | 16.0% |
| Acenaphthylene | 16.00 | 7.73E+07 | - | 0.92 | 1.16 | 26.1% |
| Acenaphthene | 16.57 | 4.64E+07 | - | 1.01 | 1.13 | 11.0% |
| Fluorene | 18.15 | 4.98E+07 | - | 1.02 | 1.10 | 8.5% |
| Phenanthrene | 20.88 | 7.13E+07 | - | 1.00 | 1.03 | 3.7% |
| Anthracene | 21.01 | 6.64E+07 | - | 1.23 | 1.28 | 3.6% |
| Fluoranthene | 24.00 | 6.62E+07 | - | 0.92 | 0.97 | 5.5% |
| Pyrene | 24.58 | 7.33E+07 | - | 0.98 | 0.98 | 0.1% |
| Benzo(a)Anthracene | 27.67 | 4.17E+07 | - | 1.00 | 1.09 | 8.6% |
| Chrysene | 27.78 | 4.43E+07 | - | 1.01 | 1.09 | 7.9% |
| Benzo(b)Fluoranthene | 31.34 | 3.92E+07 | - | 0.98 | 0.98 | 0.1% |
| Benzo(k)Fluoranthene | 31.45 | 4.25E+07 | - | 0.92 | 0.93 | 1.0% |
| Benzo(e)Pyrene | 32.51 | 4.11E+07 | - | 0.98 | 1.02 | 4.1% |
| Benzo(a)Pyrene | 32.75 | 3.36E+07 | - | 0.98 | 1.06 | 8.3% |
| Perylene | 33.13 | 3.25E+07 | - | 1.06 | 1.08 | 1.8% |
| Indeno(1,2,3-cd)Pyrene | 39.07 | 1.97E+07 | - | 0.92 | 0.94 | 2.7% |
| Dibenzo(a,h)Anthracene | 39.27 | 1.99E+07 | - | 0.94 | 1.01 | 7.9% |
| Benzo(ghi)Perylene | 40.93 | 2.65E+07 | - | 0.97 | 1.05 | 7.8% |

HR-PAH QC Summary

SGS North America

Printed: 26-Sep-24 13:12

Lab ID: CS3 240919_PAH_VA
Acquired: 19 Sep 2024 12:18:20
Datafile: 240919V02

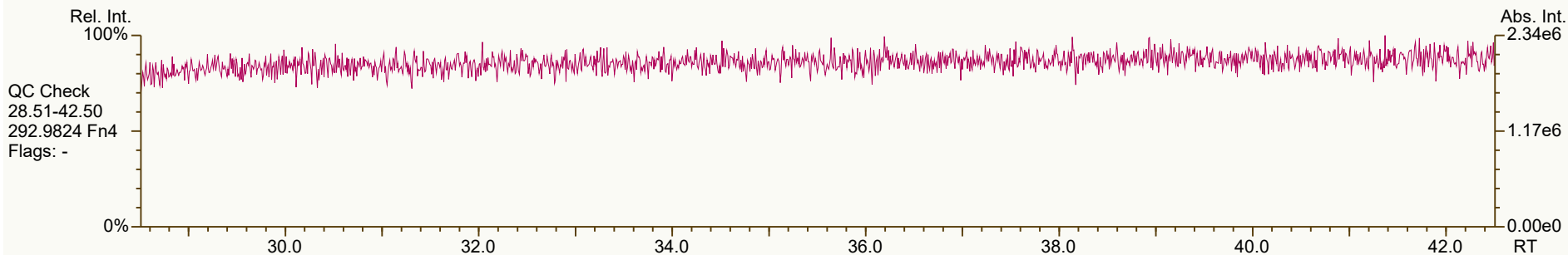
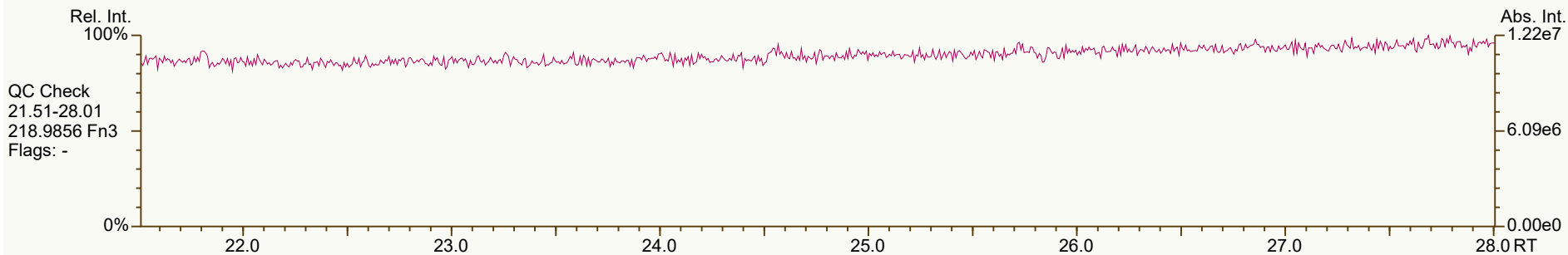
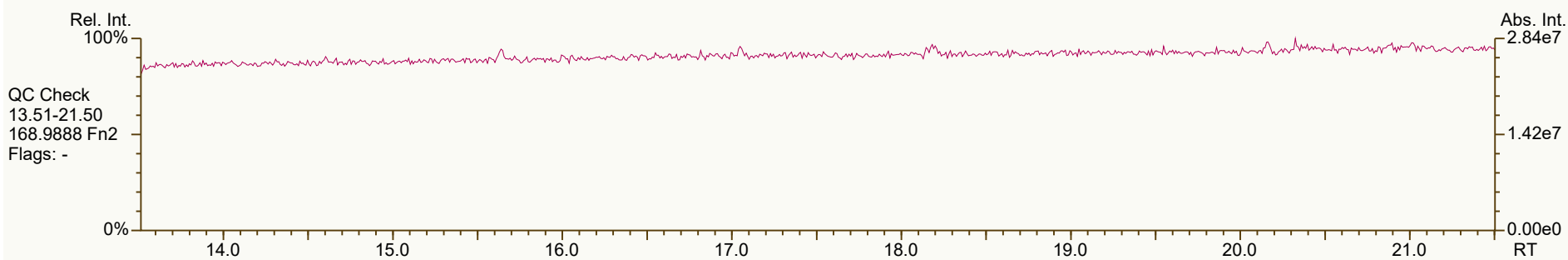
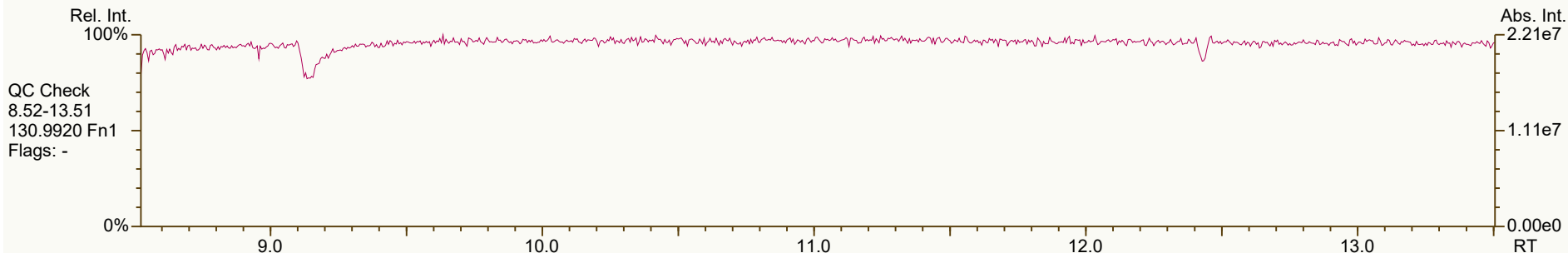
MM6_PAH_ICAL_05MAR2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-----------------------------|-------|----------|----|------|------|--------|
| 13C6-Naphthalene | 10.48 | 7.96E+07 | - | 1.35 | 1.97 | 46.1% |
| 13C6-2-Methylnaphthalene | 13.04 | 4.56E+07 | - | 0.99 | 1.13 | 13.9% |
| 13C6-Acenaphthylene | 16.00 | 6.64E+07 | - | 1.37 | 1.74 | 27.3% |
| 13C6-Acenaphthene | 16.56 | 4.12E+07 | - | 0.91 | 1.08 | 18.8% |
| 13C6-Fluorene | 18.15 | 4.52E+07 | - | 1.09 | 1.18 | 8.4% |
| 13C6-Phenanthrene | 20.87 | 6.90E+07 | - | 1.91 | 1.81 | -5.3% |
| 13C6-Anthracene | 21.01 | 5.20E+07 | - | 1.35 | 1.36 | 1.1% |
| 13C6-Fluoranthene | 24.00 | 6.85E+07 | - | 1.23 | 1.31 | 6.5% |
| 13C3-Pyrene | 24.58 | 7.47E+07 | - | 1.23 | 1.42 | 15.5% |
| 13C6-Benzo(a)Anthracene | 27.67 | 3.83E+07 | - | 0.86 | 0.73 | -15.3% |
| 13C6-Chrysene | 27.77 | 4.08E+07 | - | 1.19 | 0.78 | -34.6% |
| 13C6-Benzo(b)Fluoranthene | 31.33 | 3.99E+07 | - | 1.28 | 1.51 | 18.4% |
| 13C6-Benzo(k)Fluoranthene | 31.44 | 4.58E+07 | - | 1.82 | 1.74 | -4.6% |
| 13C4-Benzo(e)Pyrene | 32.51 | 4.04E+07 | - | 1.56 | 1.53 | -1.9% |
| 13C4-Benzo(a)Pyrene | 32.74 | 3.16E+07 | - | 1.23 | 1.20 | -2.5% |
| d12-Perylene | 33.00 | 3.01E+07 | - | 1.13 | 1.14 | 1.3% |
| 13C6-Indeno(1,2,3-cd)Pyrene | 39.06 | 2.09E+07 | - | 0.85 | 0.79 | -7.0% |
| 13C6-Dibenzo(ah)Anthracene | 39.28 | 1.97E+07 | - | 0.94 | 0.75 | -20.6% |
| 13C12-Benzo(ghi)Perylene | 40.92 | 2.54E+07 | - | 1.33 | 0.96 | -27.7% |
| AS--Anthracene FS | 20.96 | 4.88E+07 | - | 1.17 | 1.28 | 9.1% |
| SS-Fluorene | 18.06 | 4.32E+07 | - | 1.00 | 0.96 | -4.7% |
| SS-Terphenyl | 24.95 | 3.31E+07 | - | 0.79 | 0.48 | -39.3% |
| JS-Methylnaphthalene | 12.93 | 4.04E+07 | - | - | - | - |
| JS-Acenaphthene | 16.46 | 3.82E+07 | - | - | - | - |
| JS-Pyrene | 24.54 | 5.24E+07 | - | - | - | - |
| JS-Benzo(a)Pyrene | 32.64 | 2.64E+07 | - | - | - | - |

SGS ID: CS3_240919_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 19-Sep-2024 12:18:20
User: DTF Datafile: 240919V02



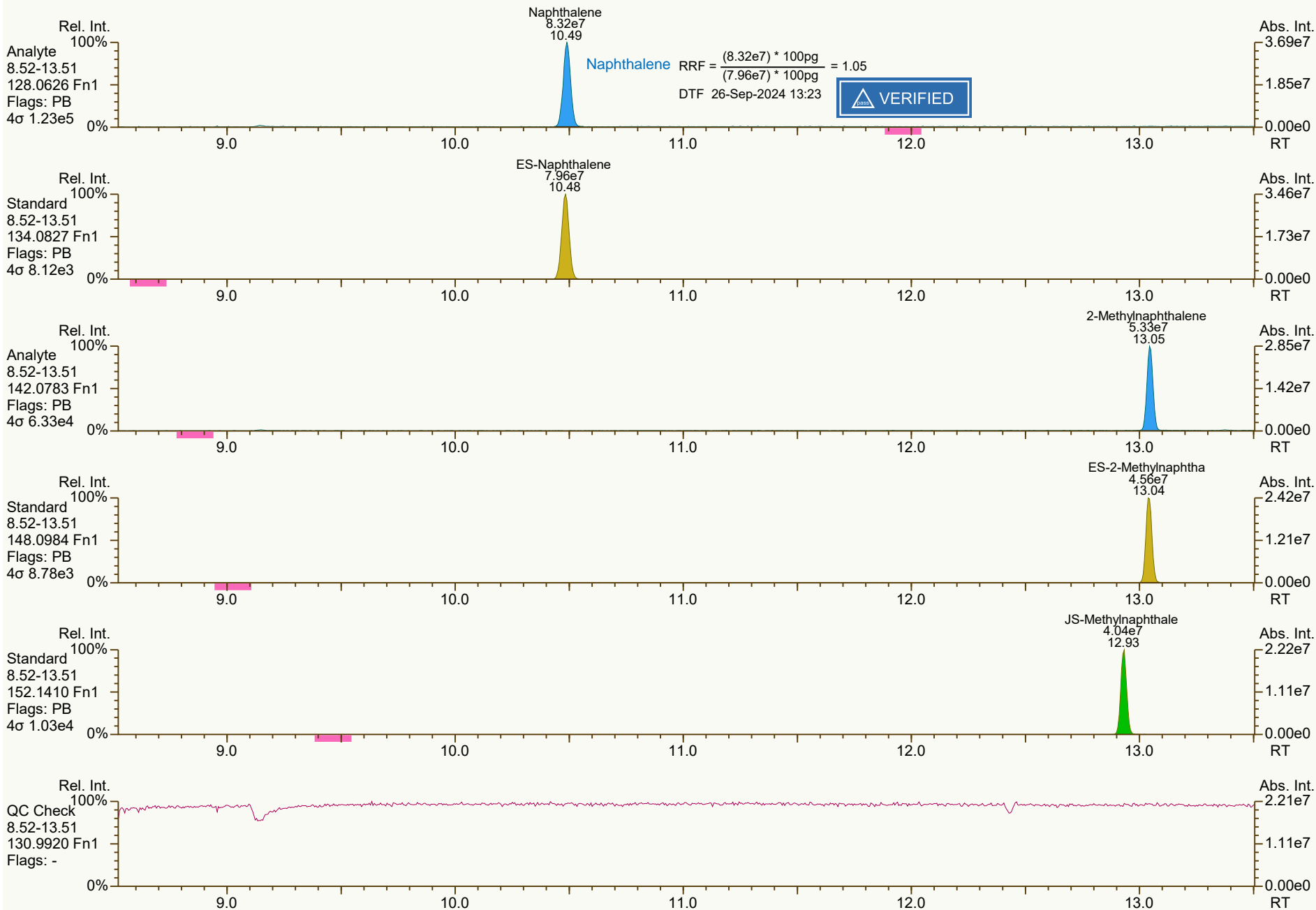
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 527-777

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:25 Page 1 of 9

SGS ID: CS3_240919_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 19-Sep-2024 12:18:20
User: DTF Datafile: 240919V02



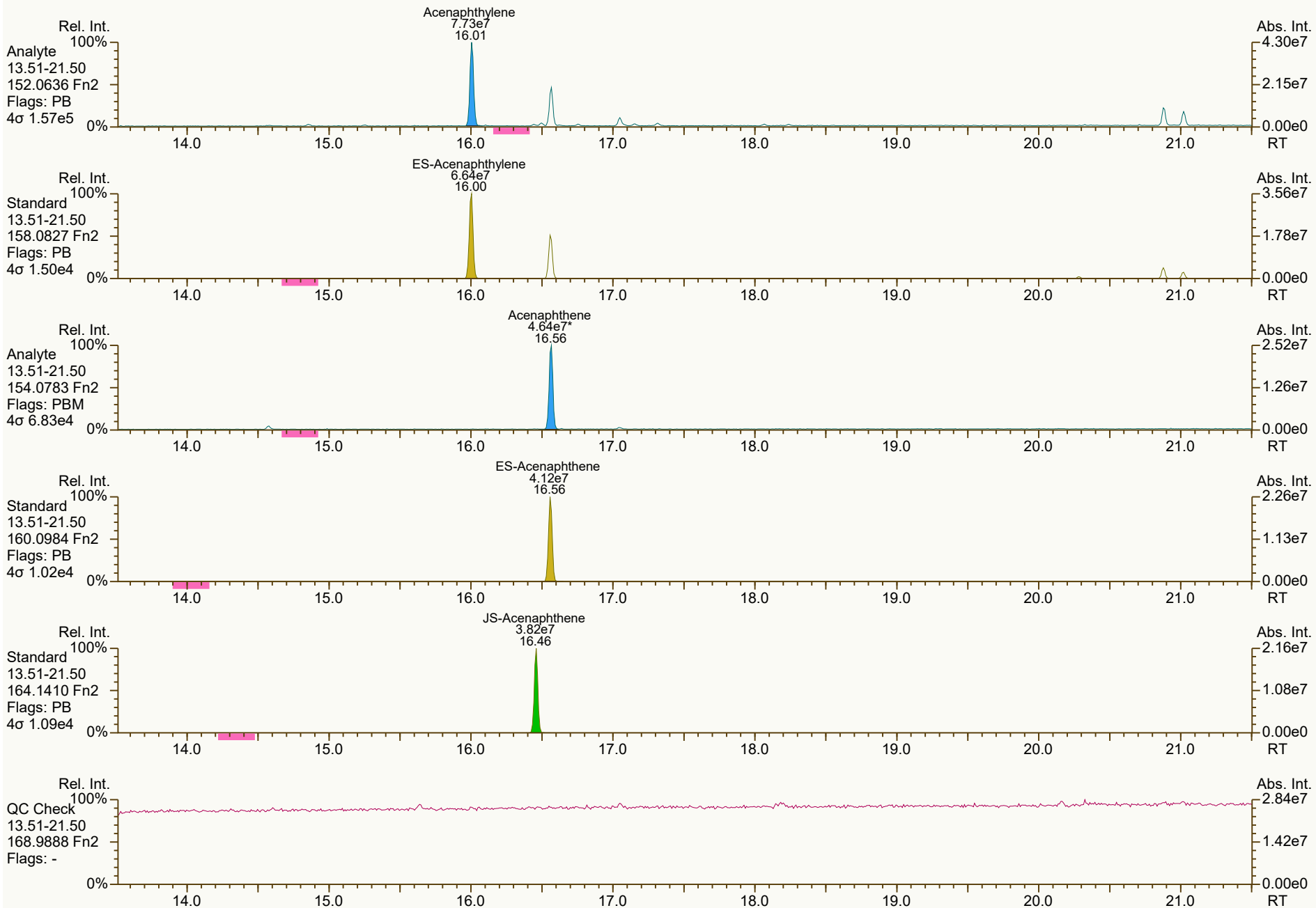
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 5299, 7270, 9040, 5430, 6672 scc: 527-777

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 13:55 Printed: 26-Sep-2024 13:25 Page 2 of 9

SGS ID: CS3_240919_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 19-Sep-2024 12:18:20
User: DTF Datafile: 240919V02



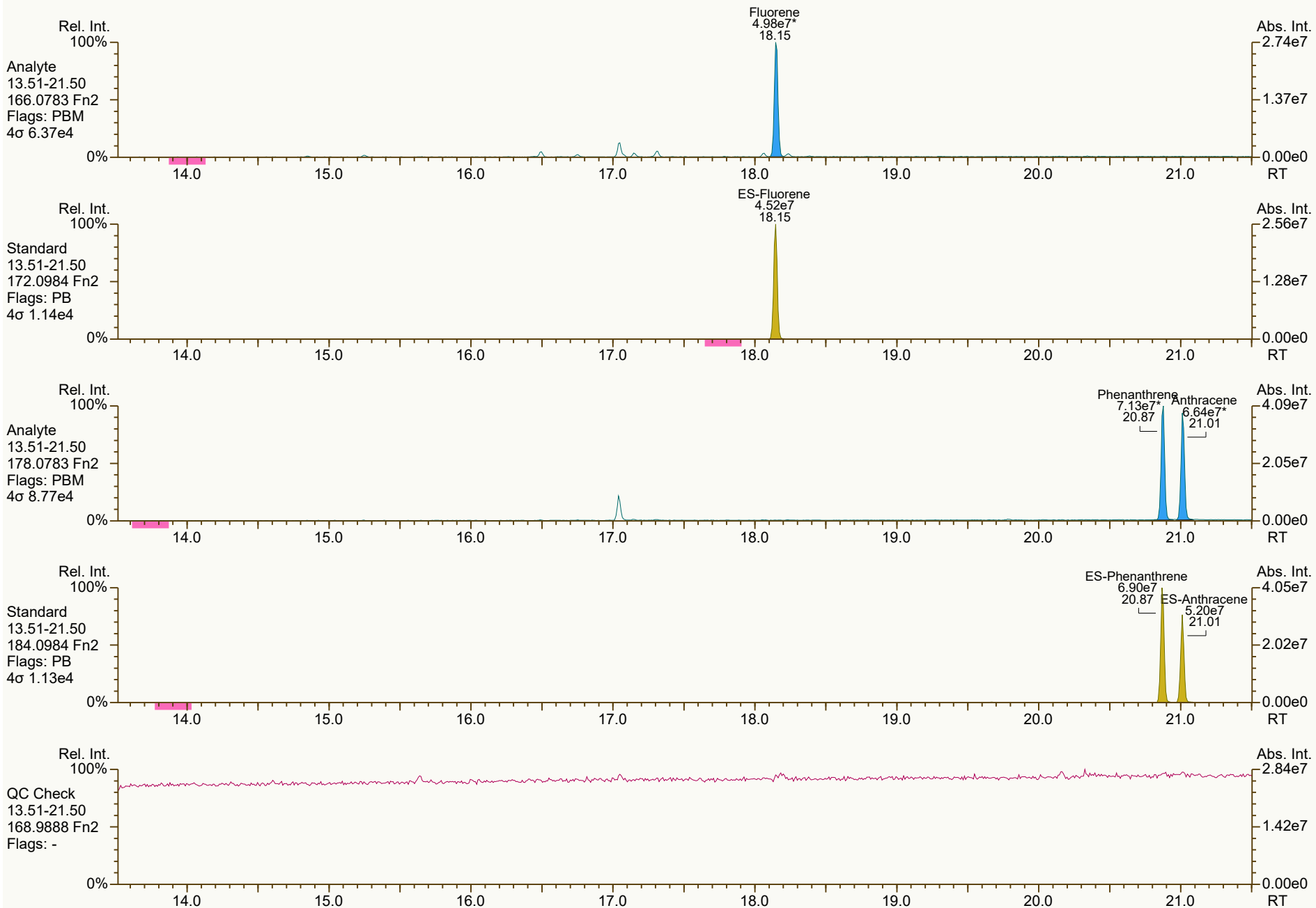
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 2235, 2329, 2778, 8978, 5613 scc: 527-777

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 13:56 (DTF) Printed: 26-Sep-2024 13:25 Page 3 of 9

SGS ID: CS3_240919_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 19-Sep-2024 12:18:20
User: DTF Datafile: 240919V02



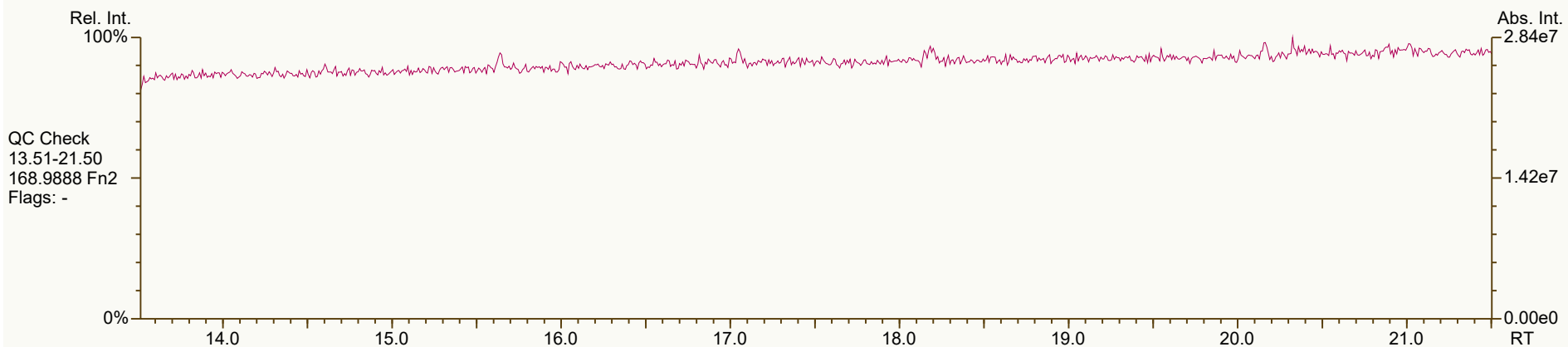
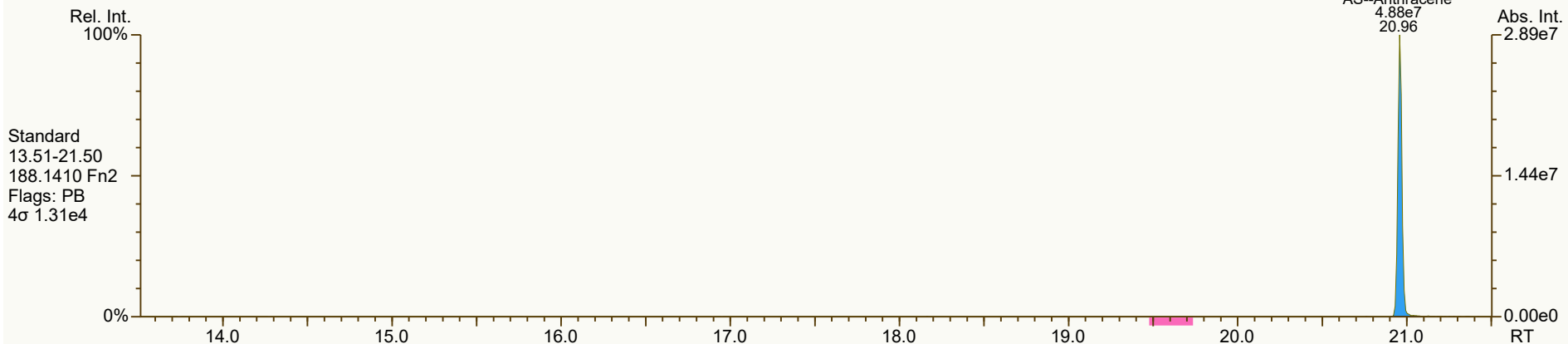
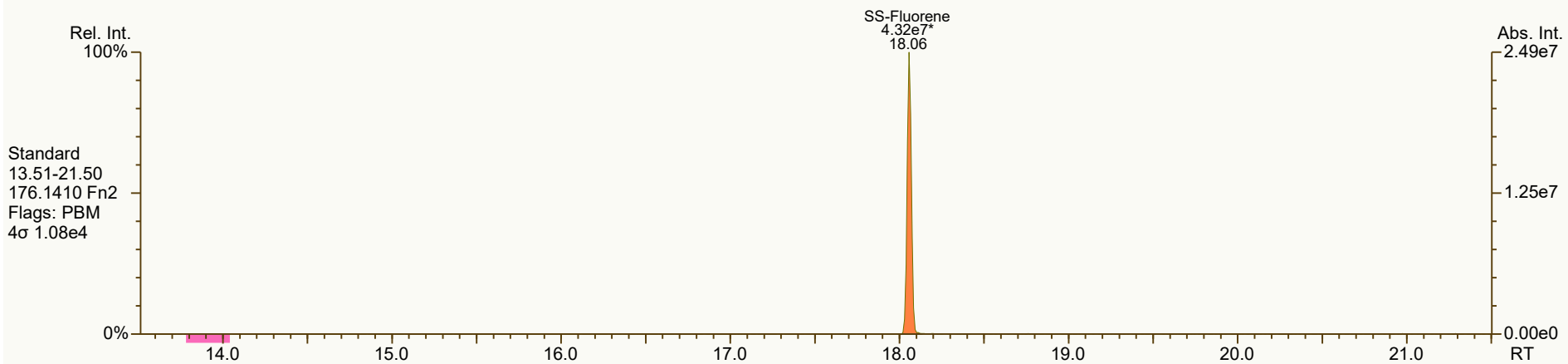
Results: P:\B9700_B9799\B9770\B9770_21382 PAH\Resources\CS3_240919_PAH_VA.utp_res, saved 26-Sep-2024 13:23 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 9089, 2077, 0698, 9557 scc: 527-777

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 13:56 (DTF) Printed: 26-Sep-2024 13:25 Page 4 of 9

SGS ID: CS3_240919_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

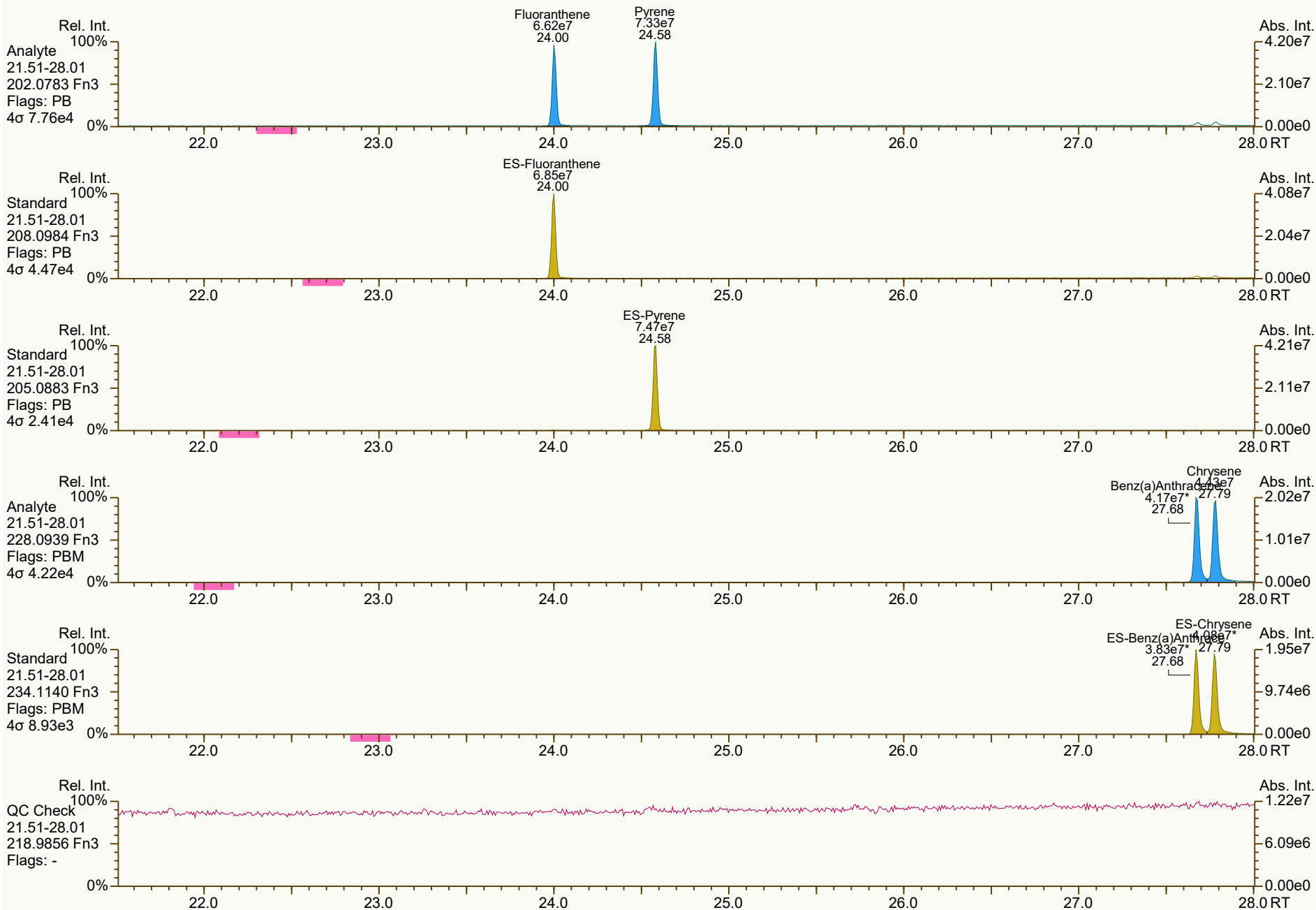
Acq: 19-Sep-2024 12:18:20
User: DTF Datafile: 240919V02



SGS ID: CS3_240919_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 19-Sep-2024 12:18:20
User: DTF Datafile: 240919V02



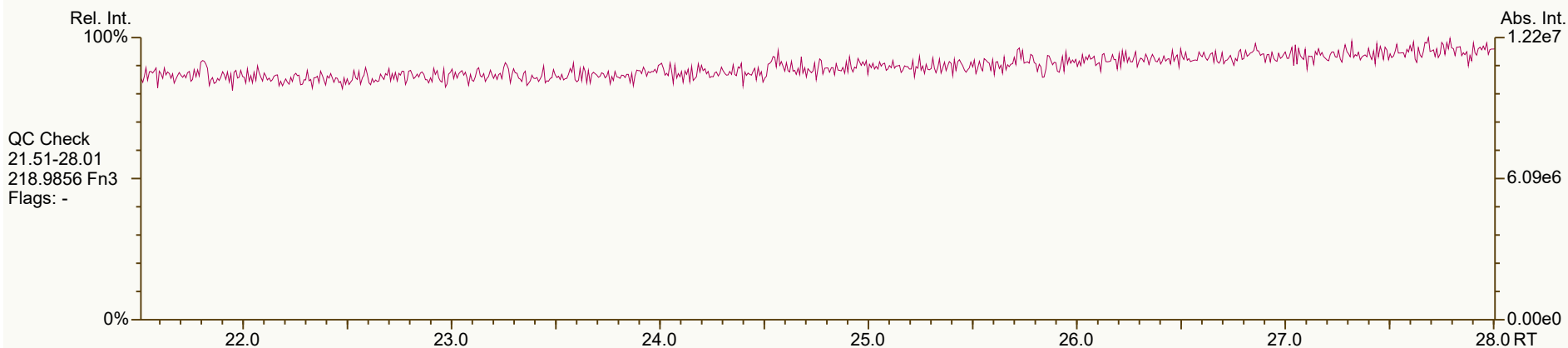
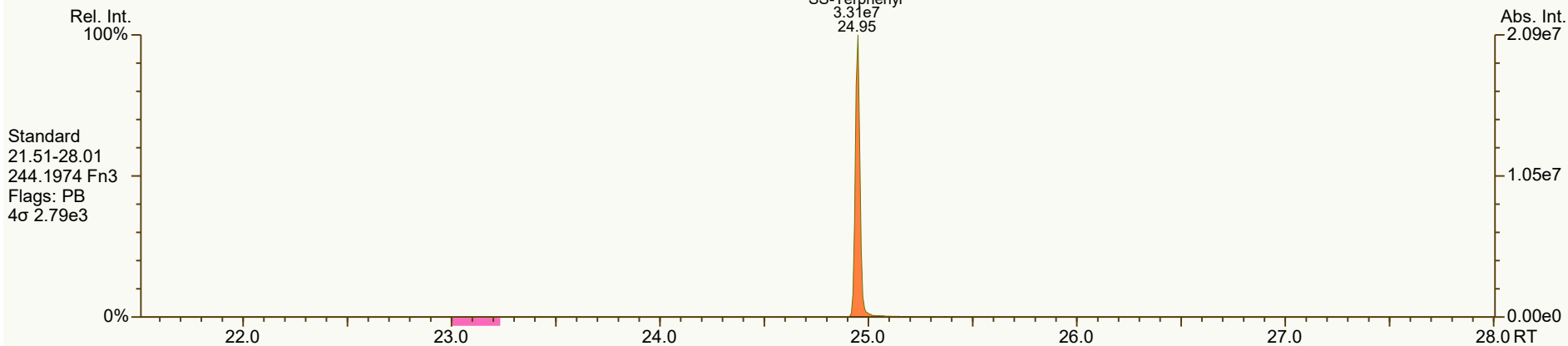
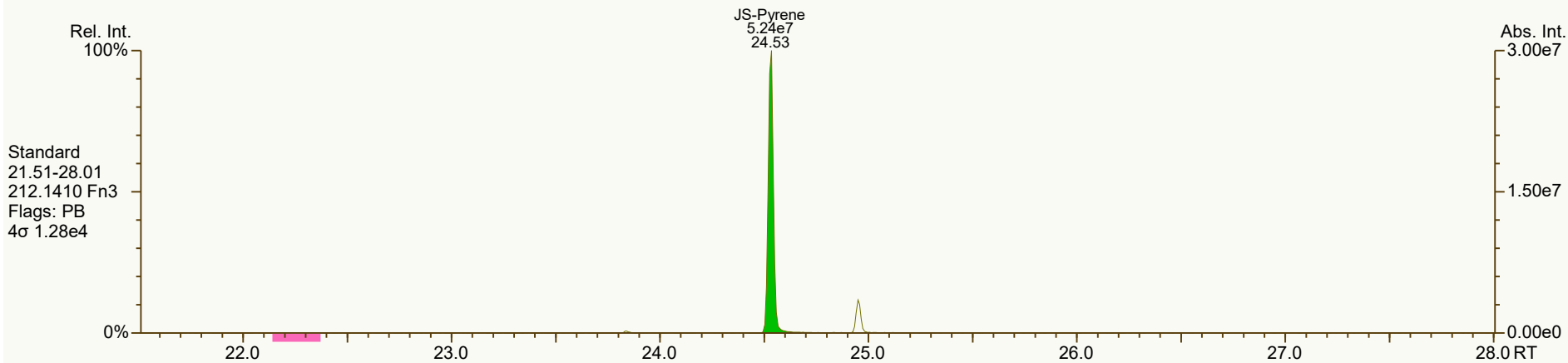
Results: P:\B9700_B9799\B9770\B9770_21382 PAH\Resources\CS3_240919_PAH_VA.utp_res, saved 26-Sep-2024 13:23 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 5664, 7800, 2241, 6981, 3916 scc: 527-777

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 13:56 (DTF) Printed: 26-Sep-2024 13:25 Page 6 of 9

SGS ID: CS3_240919_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

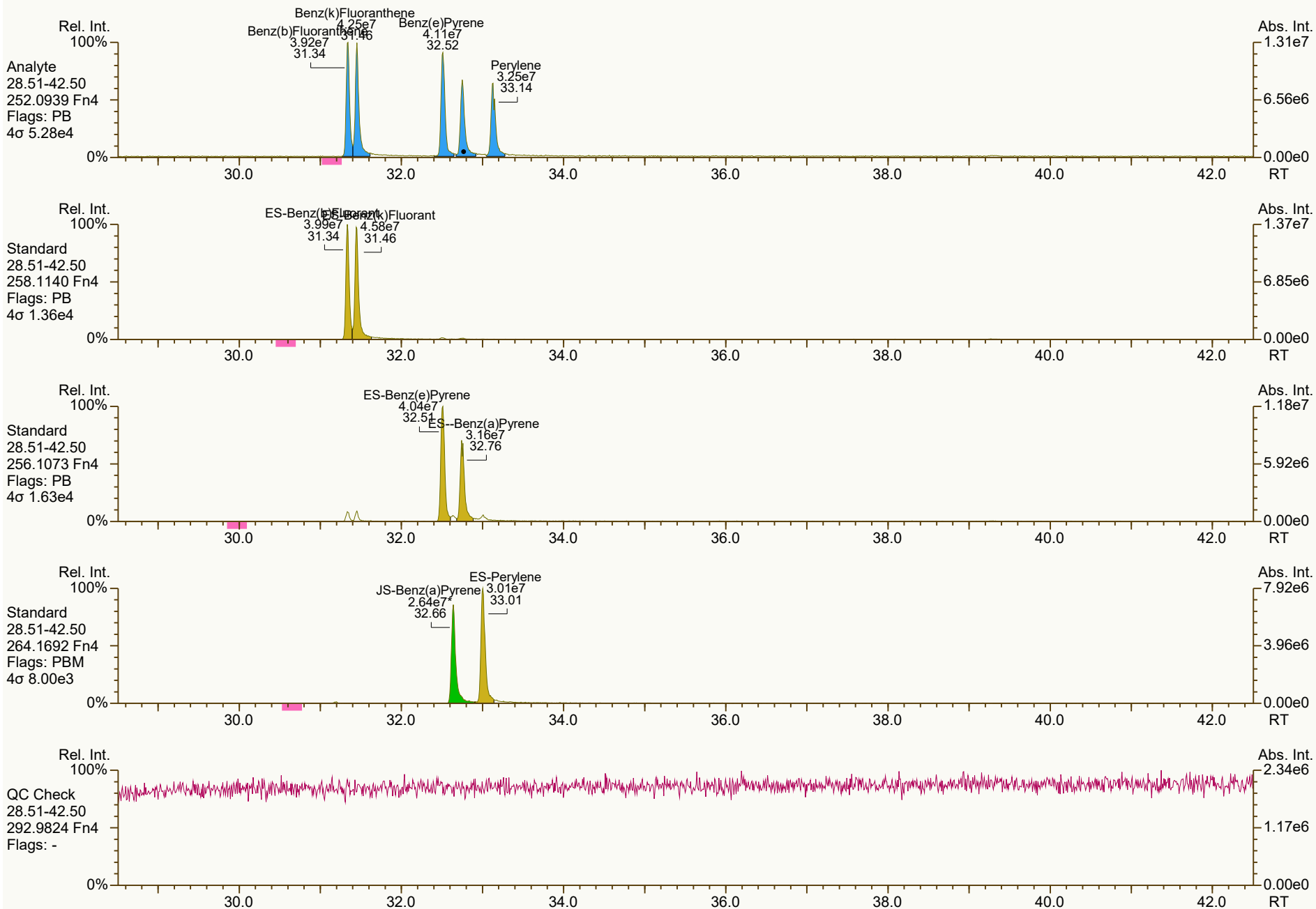
Acq: 19-Sep-2024 12:18:20
User: DTF Datafile: 240919V02



SGS ID: CS3_240919_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 19-Sep-2024 12:18:20
User: DTF Datafile: 240919V02



Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\CS3_240919_PAH_VA.utp_res, saved 26-Sep-2024 13:23 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 9578, 7151, 7396, 3401 scc: 527-777

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 13:55 (DTF) Printed: 26-Sep-2024 13:25 Page 8 of 9

SGS ID: CS3_240919_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 19-Sep-2024 12:18:20
User: DTF Datafile: 240919V02



Results: P:\B9700_B9799\B9770\B9770_21382 PAH\Resources\CS3_240919_PAH_VA.utp_res, saved 26-Sep-2024 13:23 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 0914, 7847, 2176, 2768, 5787 scc: 527-777

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 13:57 (DTF) Printed: 26-Sep-2024 13:26 Page 9 of 9

HR-PAH QC Summary

SGS North America

Printed: 26-Sep-24 13:12

Lab ID: CS3 240919_PAH_VB
Acquired: 20 Sep 2024 00:08:29
Datafile: 240919V16

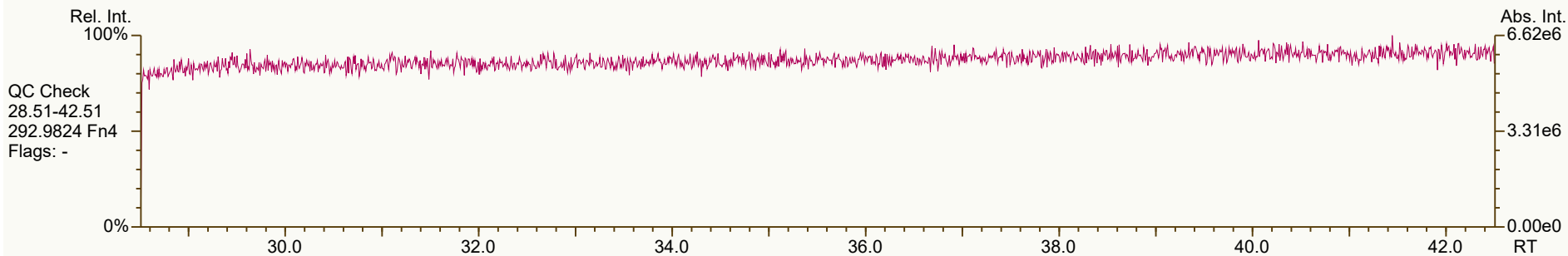
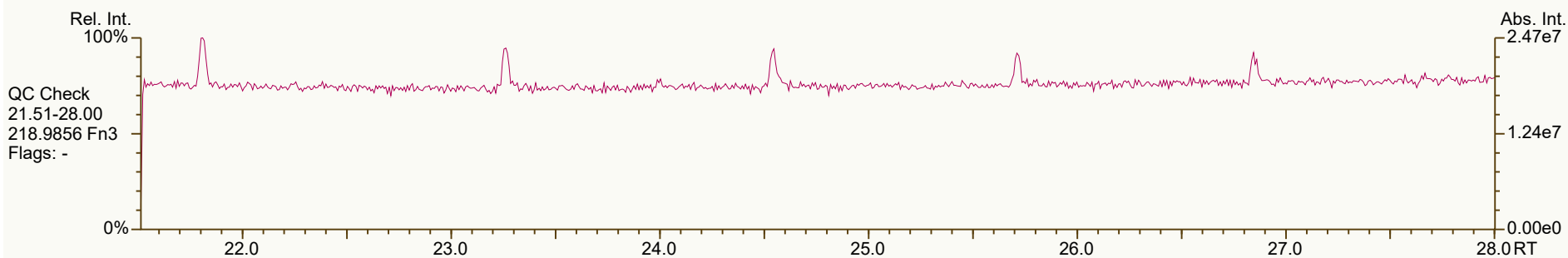
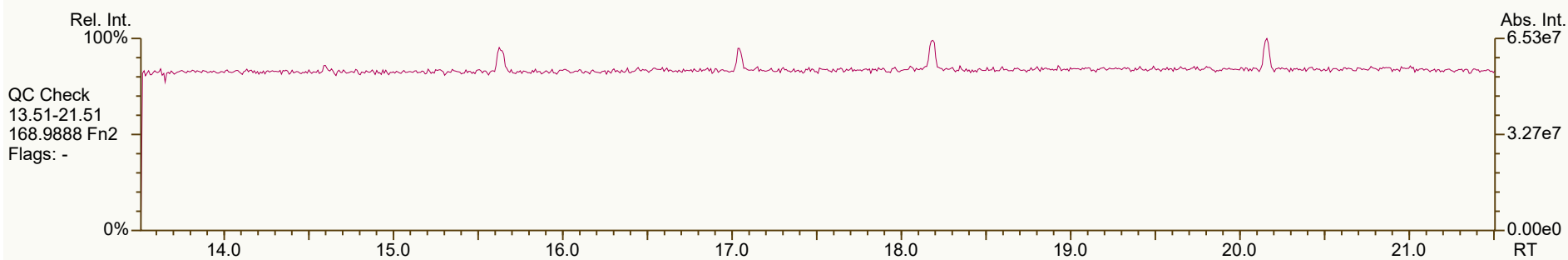
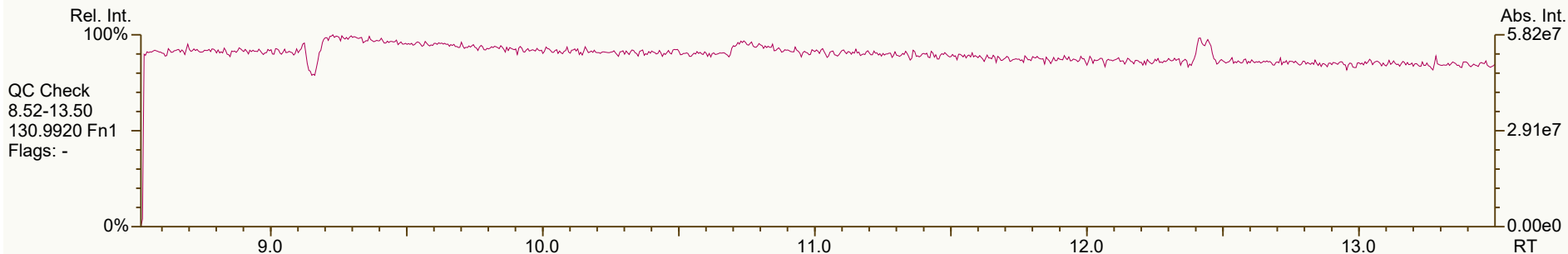
MM6_PAH_ICAL_05MAR2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-----------------------------|-------|----------|----|------|------|--------|
| 13C6-Naphthalene | 10.49 | 5.20E+07 | - | 1.35 | 2.02 | 50.0% |
| 13C6-2-Methylnaphthalene | 13.04 | 3.00E+07 | - | 0.99 | 1.17 | 17.8% |
| 13C6-Acenaphthylene | 16.00 | 4.06E+07 | - | 1.37 | 1.66 | 21.8% |
| 13C6-Acenaphthene | 16.55 | 2.66E+07 | - | 0.91 | 1.09 | 20.1% |
| 13C6-Fluorene | 18.14 | 2.83E+07 | - | 1.09 | 1.16 | 6.1% |
| 13C6-Phenanthrene | 20.86 | 3.98E+07 | - | 1.91 | 1.63 | -14.6% |
| 13C6-Anthracene | 21.01 | 2.97E+07 | - | 1.35 | 1.21 | -9.7% |
| 13C6-Fluoranthene | 24.00 | 3.95E+07 | - | 1.23 | 1.14 | -6.8% |
| 13C3-Pyrene | 24.58 | 4.55E+07 | - | 1.23 | 1.32 | 6.8% |
| 13C6-Benzo(a)Anthracene | 27.67 | 2.16E+07 | - | 0.86 | 0.63 | -27.5% |
| 13C6-Chrysene | 27.78 | 2.45E+07 | - | 1.19 | 0.71 | -40.4% |
| 13C6-Benzo(b)Fluoranthene | 31.33 | 2.74E+07 | - | 1.28 | 1.59 | 24.9% |
| 13C6-Benzo(k)Fluoranthene | 31.44 | 3.03E+07 | - | 1.82 | 1.76 | -3.0% |
| 13C4-Benzo(e)Pyrene | 32.50 | 2.74E+07 | - | 1.56 | 1.59 | 2.2% |
| 13C4-Benzo(a)Pyrene | 32.74 | 2.18E+07 | - | 1.23 | 1.27 | 3.4% |
| d12-Perylene | 33.00 | 1.90E+07 | - | 1.13 | 1.11 | -1.6% |
| 13C6-Indeno(1,2,3-cd)Pyrene | 39.04 | 1.48E+07 | - | 0.85 | 0.86 | 1.1% |
| 13C6-Dibenzo(ah)Anthracene | 39.25 | 1.48E+07 | - | 0.94 | 0.86 | -8.4% |
| 13C12-Benzo(ghi)Perylene | 40.90 | 1.77E+07 | - | 1.33 | 1.03 | -22.2% |
| AS--Anthracene | 20.96 | 2.63E+07 | - | 1.17 | 1.08 | -7.9% |
| SS-Fluorene | 18.06 | 2.66E+07 | - | 1.00 | 0.94 | -6.2% |
| SS-Terphenyl | 24.95 | 1.77E+07 | - | 0.79 | 0.45 | -43.5% |
| JS-Methylnaphthalene | 12.93 | 2.58E+07 | - | - | - | - |
| JS-Acenaphthene | 16.45 | 2.44E+07 | - | - | - | - |
| JS-Pyrene | 24.53 | 3.45E+07 | - | - | - | - |
| JS-Benzo(a)Pyrene | 32.63 | 1.72E+07 | - | - | - | - |

SGS ID: CS3_240919_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 20-Sep-2024 00:08:29
User: DTF Datafile: 240919V16



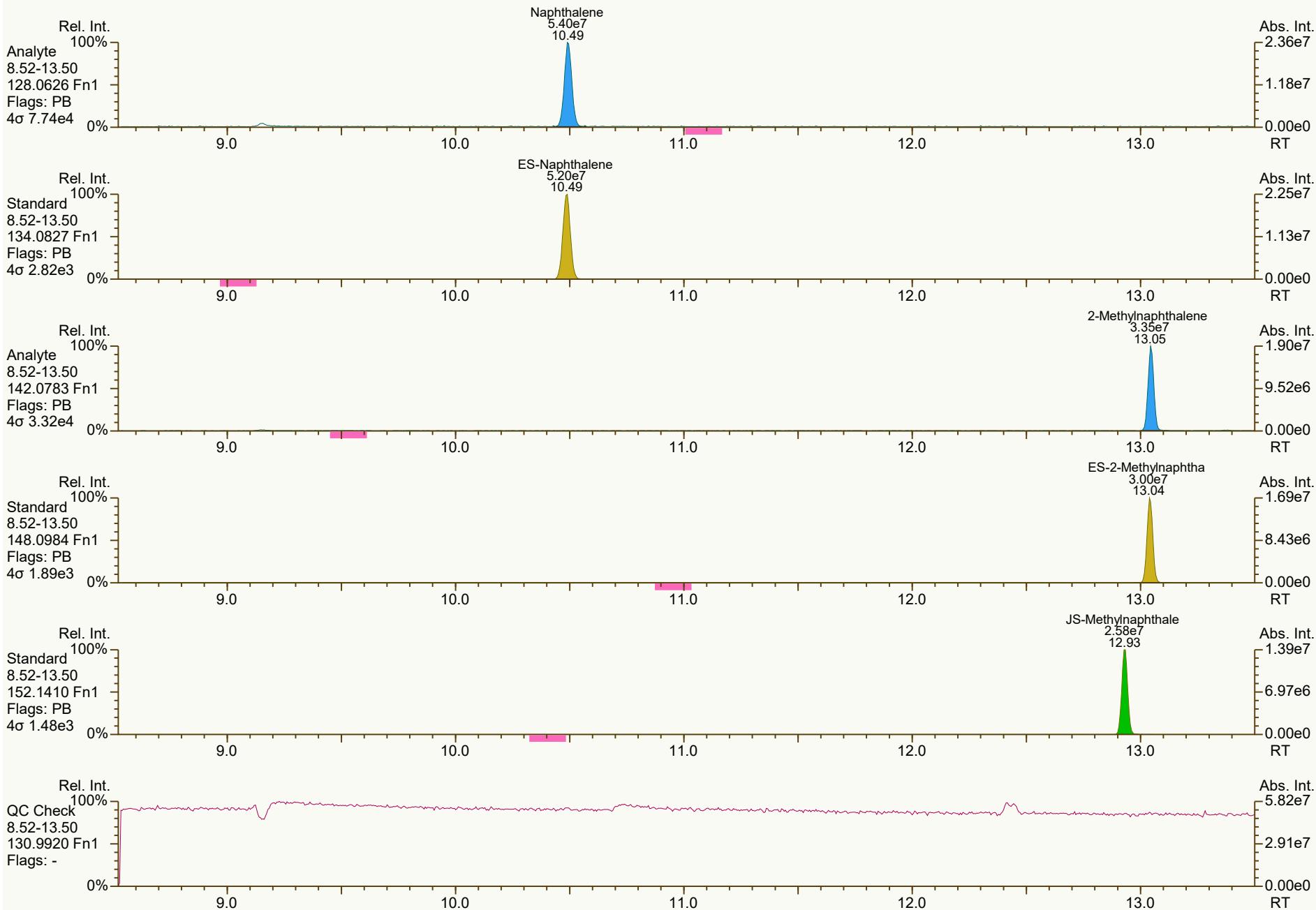
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 497-786

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:27 Page 1 of 9

SGS ID: CS3_240919_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 20-Sep-2024 00:08:29
User: DTF Datafile: 240919V16



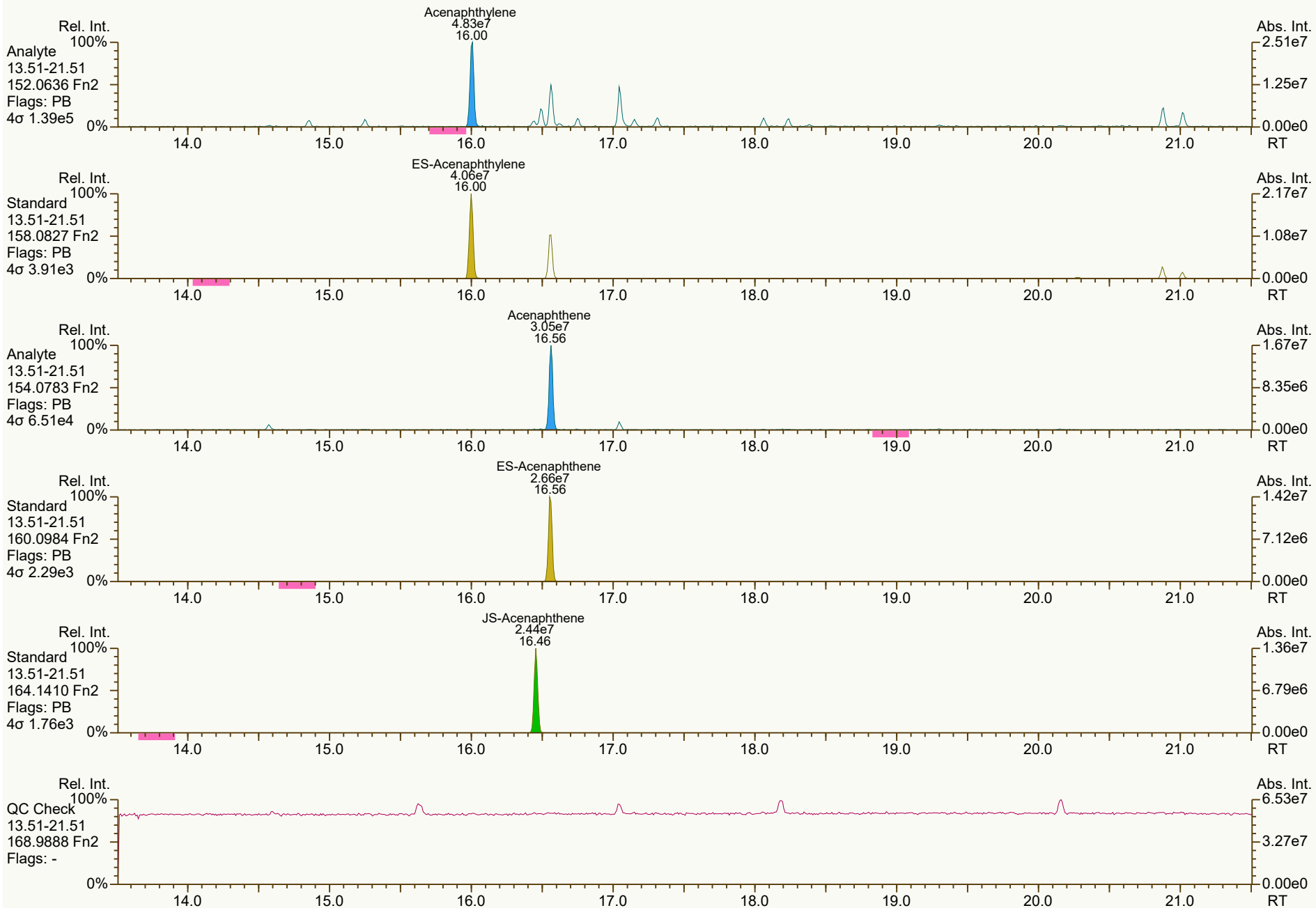
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1262, 0806, 9759, 5487, 1698 scc: 497-786

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 09:53 Printed: 26-Sep-2024 13:27 Page 2 of 9

SGS ID: CS3_240919_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 20-Sep-2024 00:08:29
User: DTF Datafile: 240919V16



Results: P:\B9700_B9799\B9770\B9770_21382 PAH\Resources\CS3_240919_PAH_VB.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 0984, 7908, 8718, 5620, 3260 scc: 497-786

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 09:53 Printed: 26-Sep-2024 13:27 Page 3 of 9

SGS ID: CS3_240919_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 20-Sep-2024 00:08:29
User: DTF Datafile: 240919V16



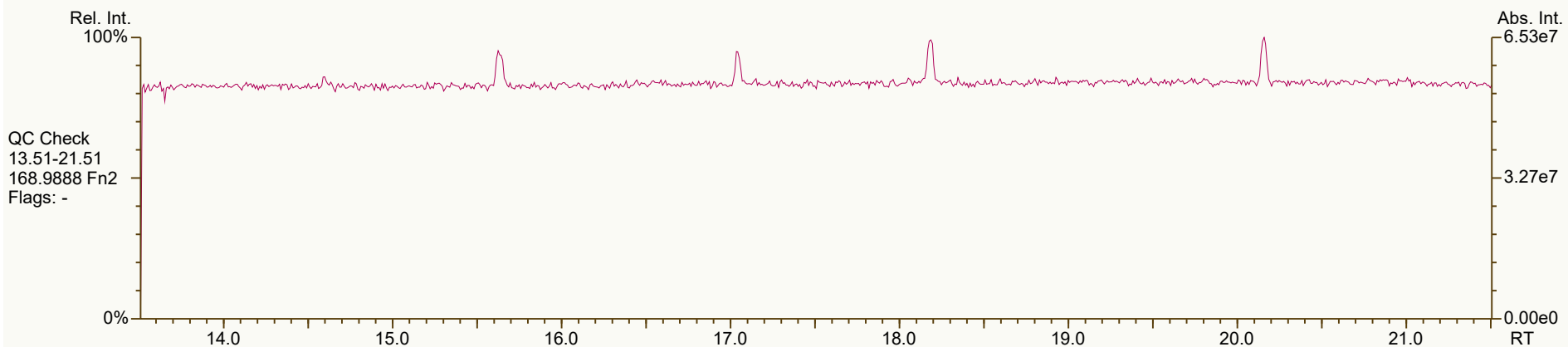
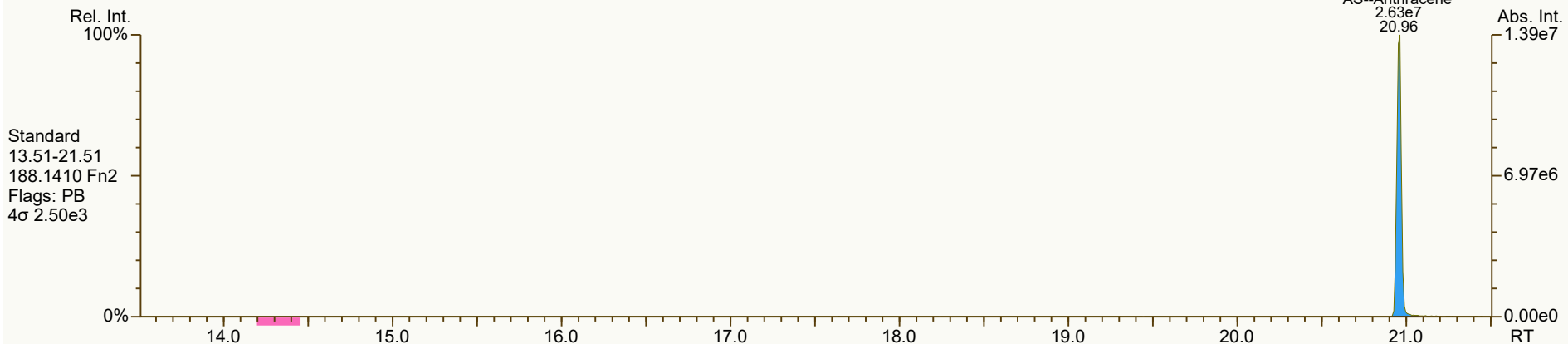
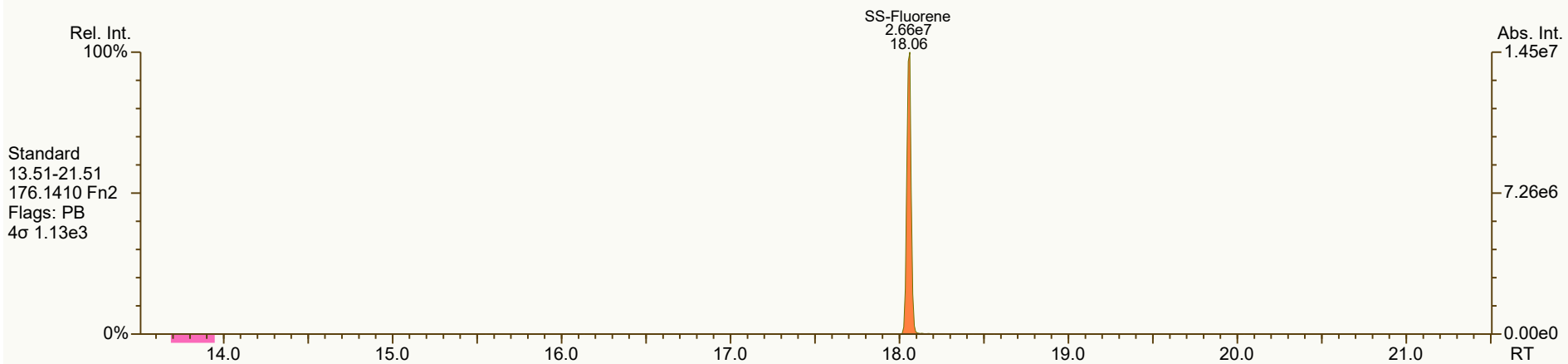
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 3445, 1707, 7711, 7090 scc: 497-786

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 09:53 Printed: 26-Sep-2024 13:27 Page 4 of 9

SGS ID: CS3_240919_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

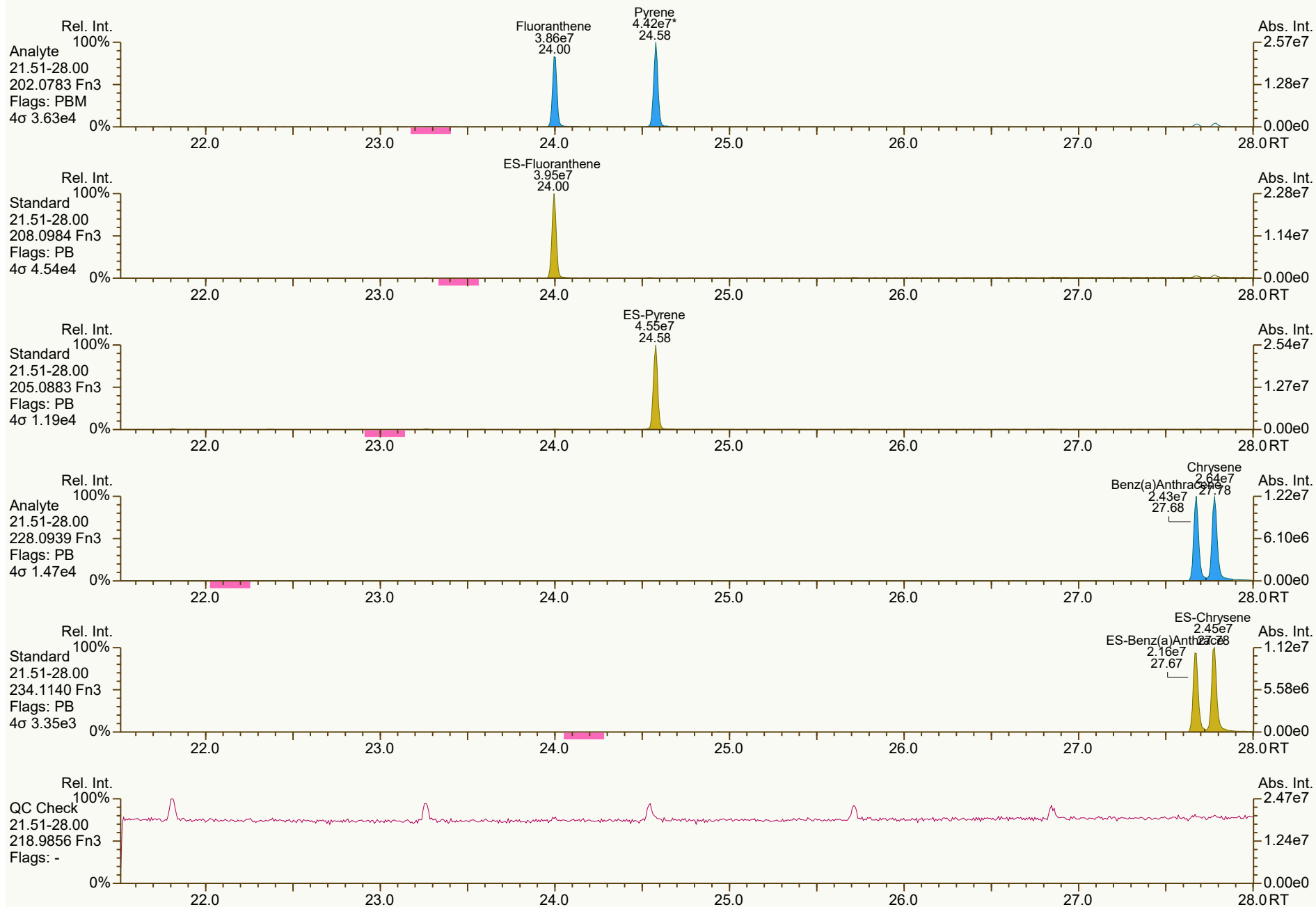
Acq: 20-Sep-2024 00:08:29
User: DTF Datafile: 240919V16



SGS ID: CS3_240919_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 20-Sep-2024 00:08:29
User: DTF Datafile: 240919V16



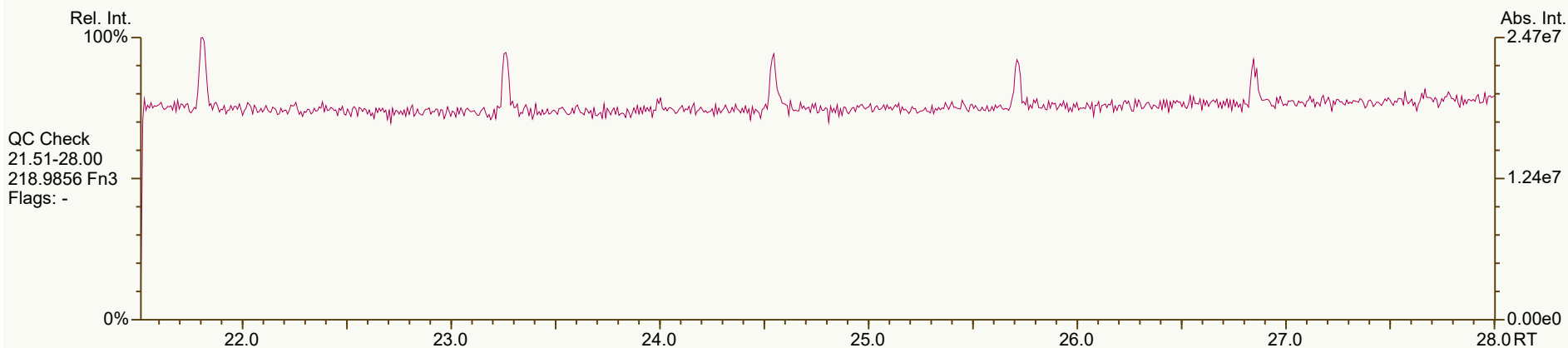
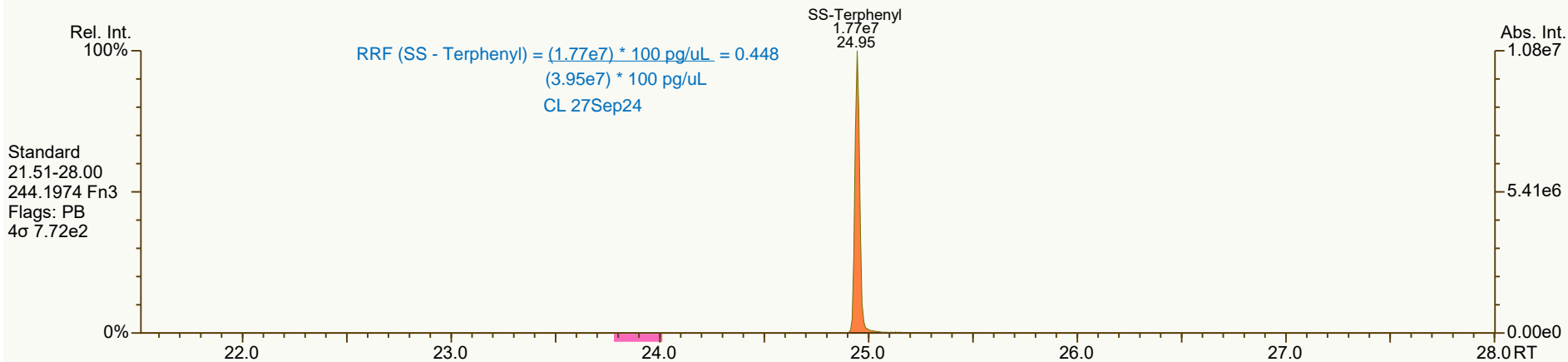
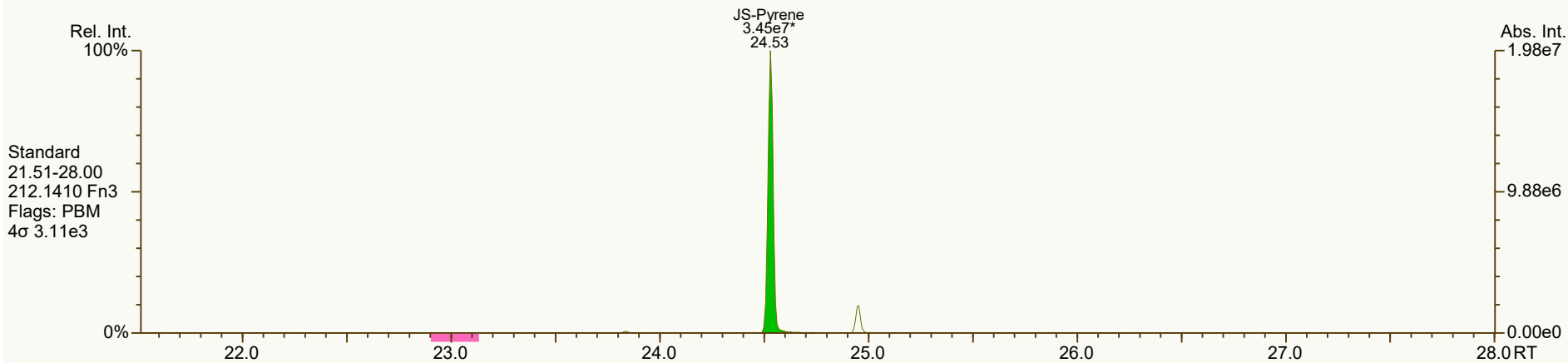
Results: P:\B9700_B9799\B9770\B9770_21382 PAH\Resources\CS3_240919_PAH_VB.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 6944, 9087, 2011, 0985, 5834 scc: 497-786

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 09:55 (DTF) Printed: 26-Sep-2024 13:27 Page 6 of 9

SGS ID: CS3_240919_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

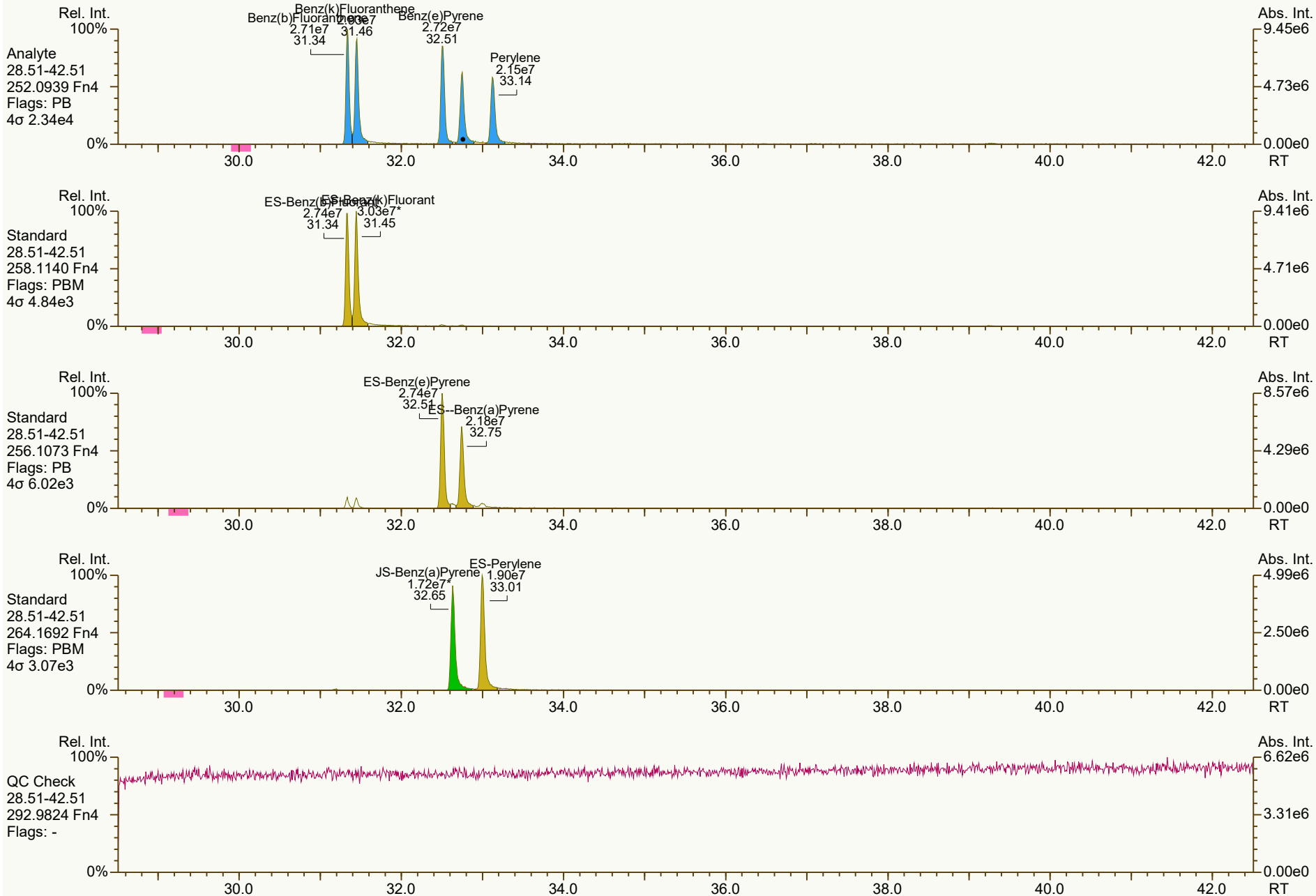
Acq: 20-Sep-2024 00:08:29
User: DTF Datafile: 240919V16



SGS ID: CS3_240919_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 20-Sep-2024 00:08:29
User: DTF Datafile: 240919V16



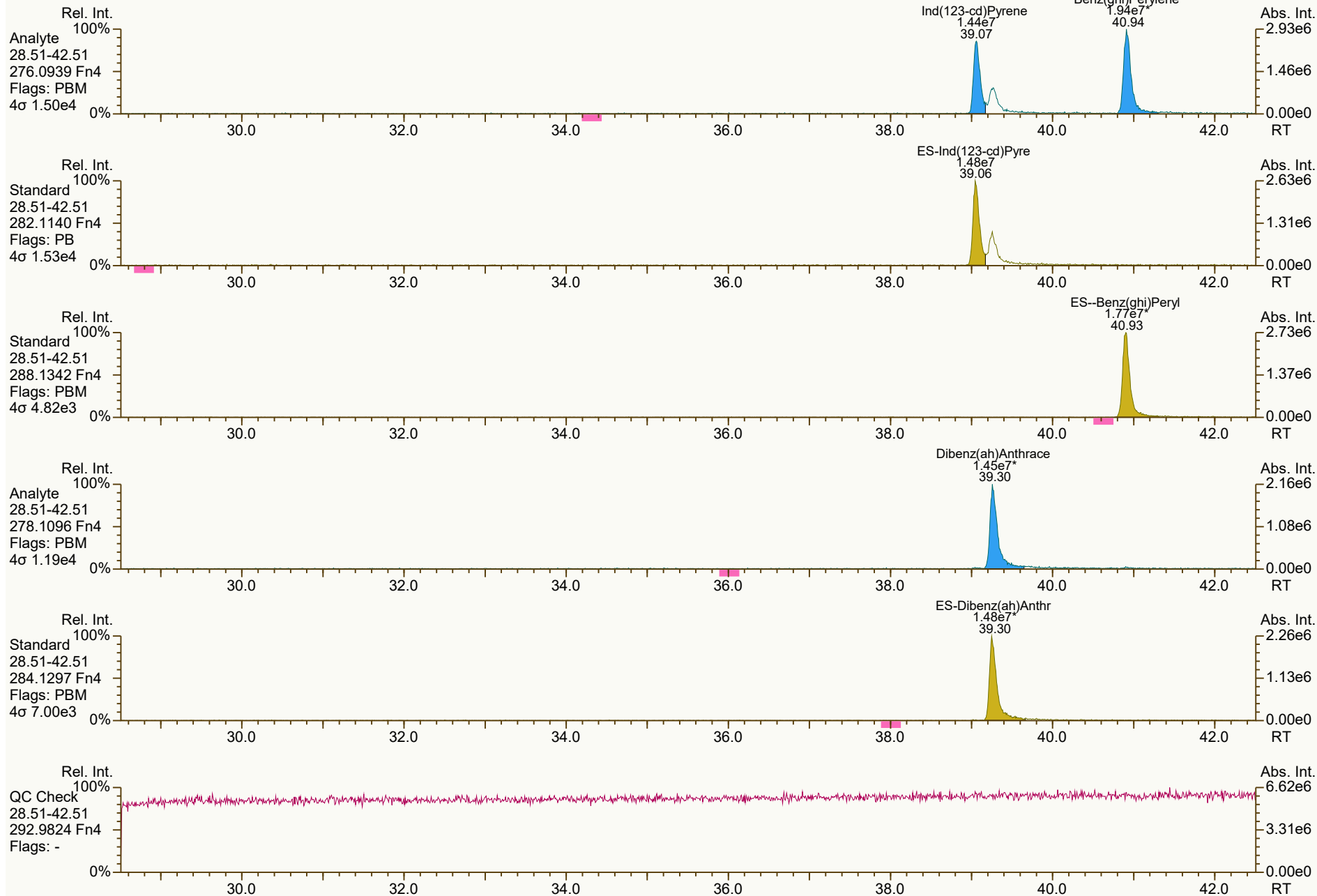
Results: P:\B9700_B9799\B9770\B9770_21382_PAH\Resources\CS3_240919_PAH_VB.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 4536, 8878, 1457, 4004 scc: 497-786

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 09:54 (DTF) Printed: 26-Sep-2024 13:27 Page 8 of 9

SGS ID: CS3_240919_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 20-Sep-2024 00:08:29
User: DTF Datafile: 240919V16



Results: P:\B9700_B9799\B9770\B9770_21382 PAH\Resources\CS3_240919_PAH_VB.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 5957, 9652, 3960, 0307, 8511 scc: 497-786

Peak annotation: Areas, Centroids
Revised: 20-Sep-2024 09:55 (DTF) Printed: 26-Sep-2024 13:27 Page 9 of 9

MM6 PAH ICAL 05MAR2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|------------------------|-------|----------|----|------|------|-------|
| Naphthalene | 10.49 | 6.90E+07 | - | 0.99 | 0.94 | -4.9% |
| 2-Methylnaphthalene | 13.04 | 5.72E+07 | - | 1.01 | 1.01 | 0.6% |
| Acenaphthylene | 16.00 | 4.99E+07 | - | 0.92 | 1.02 | 10.2% |
| Acenaphthene | 16.57 | 3.45E+07 | - | 1.01 | 1.01 | -0.1% |
| Fluorene | 18.15 | 4.44E+07 | - | 1.02 | 0.96 | -5.5% |
| Phenanthrene | 20.88 | 7.41E+07 | - | 1.00 | 0.96 | -4.1% |
| Anthracene | 21.01 | 6.59E+07 | - | 1.23 | 1.16 | -6.2% |
| Fluoranthene | 24.00 | 5.46E+07 | - | 0.92 | 0.87 | -4.7% |
| Pyrene | 24.58 | 5.85E+07 | - | 0.98 | 0.94 | -4.3% |
| Benzo(a)Anthracene | 27.68 | 3.88E+07 | - | 1.00 | 1.04 | 3.8% |
| Chrysene | 27.78 | 4.33E+07 | - | 1.01 | 1.04 | 3.2% |
| Benzo(b)Fluoranthene | 31.34 | 2.55E+07 | - | 0.98 | 0.94 | -4.0% |
| Benzo(k)Fluoranthene | 31.45 | 2.82E+07 | - | 0.92 | 0.91 | -1.1% |
| Benzo(e)Pyrene | 32.52 | 2.62E+07 | - | 0.98 | 0.93 | -4.8% |
| Benzo(a)Pyrene | 32.76 | 2.04E+07 | - | 0.98 | 0.96 | -2.6% |
| Perylene | 33.14 | 2.22E+07 | - | 1.06 | 1.04 | -2.1% |
| Indeno(1,2,3-cd)Pyrene | 39.09 | 1.53E+07 | - | 0.92 | 0.98 | 7.0% |
| Dibenzo(a,h)Anthracene | 39.31 | 1.51E+07 | - | 0.94 | 0.97 | 3.2% |
| Benzo(ghi)Perylene | 40.96 | 2.20E+07 | - | 0.97 | 1.00 | 3.0% |

HR-PAH QC Summary

SGS North America

Printed: 26-Sep-24 13:12

Lab ID: CS3 240925_PAH_VA
Acquired: 25 Sep 2024 10:17:30
Datafile: 240925V01

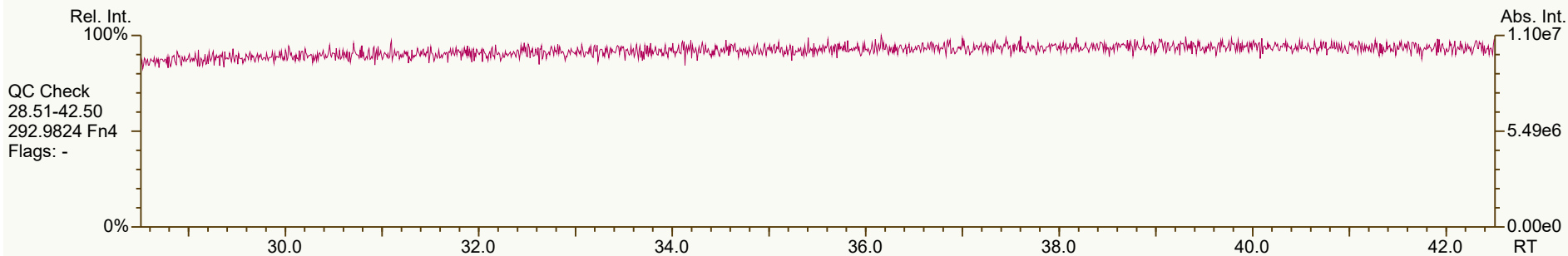
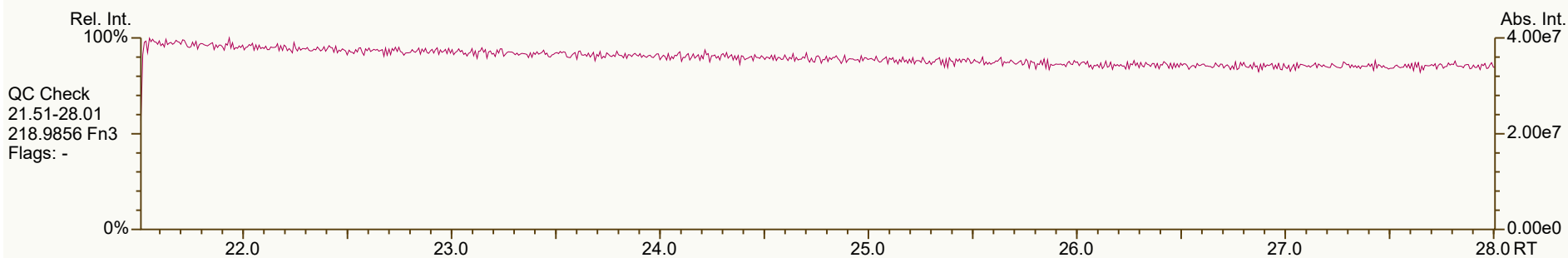
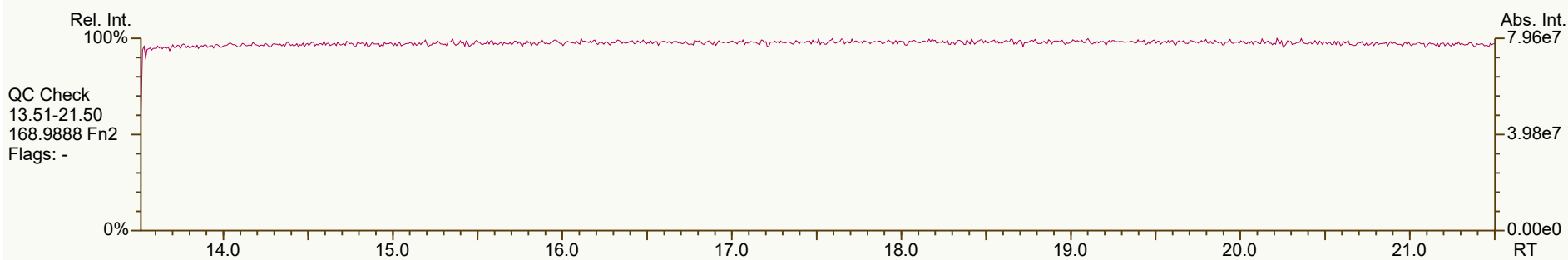
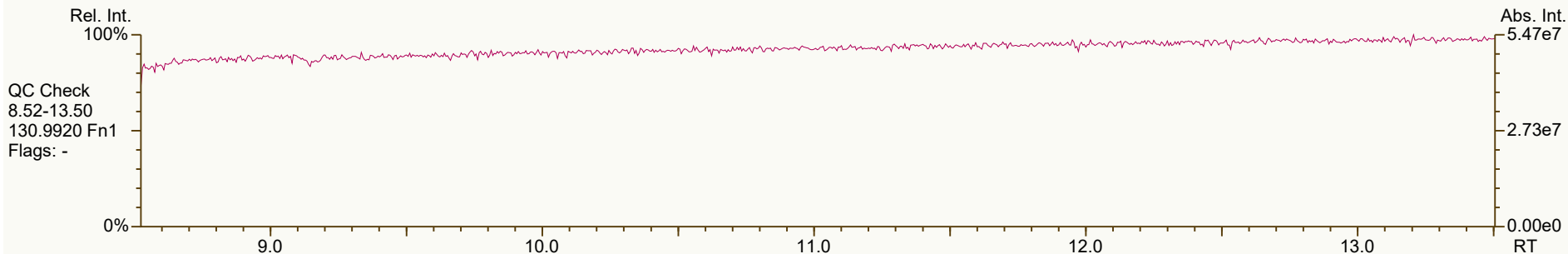
MM6_PAH_ICAL_05MAR2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-----------------------------|-------|----------|----|------|------|--------|
| 13C6-Naphthalene | 10.48 | 7.31E+07 | - | 1.35 | 1.38 | 2.3% |
| 13C6-2-Methylnaphthalene | 13.04 | 5.64E+07 | - | 0.99 | 1.06 | 7.5% |
| 13C6-Acenaphthylene | 16.00 | 4.91E+07 | - | 1.37 | 1.42 | 4.3% |
| 13C6-Acenaphthene | 16.56 | 3.40E+07 | - | 0.91 | 0.99 | 8.8% |
| 13C6-Fluorene | 18.15 | 4.62E+07 | - | 1.09 | 1.34 | 22.7% |
| 13C6-Phenanthrene | 20.87 | 7.75E+07 | - | 1.91 | 2.25 | 17.9% |
| 13C6-Anthracene | 21.01 | 5.70E+07 | - | 1.35 | 1.65 | 23.0% |
| 13C6-Fluoranthene | 24.00 | 6.25E+07 | - | 1.23 | 1.34 | 9.0% |
| 13C3-Pyrene | 24.58 | 6.24E+07 | - | 1.23 | 1.34 | 8.2% |
| 13C6-Benzo(a)Anthracene | 27.67 | 3.73E+07 | - | 0.86 | 0.80 | -7.6% |
| 13C6-Chrysene | 27.78 | 4.16E+07 | - | 1.19 | 0.89 | -25.1% |
| 13C6-Benzo(b)Fluoranthene | 31.34 | 2.71E+07 | - | 1.28 | 1.49 | 16.7% |
| 13C6-Benzo(k)Fluoranthene | 31.45 | 3.10E+07 | - | 1.82 | 1.71 | -6.2% |
| 13C4-Benzo(e)Pyrene | 32.51 | 2.83E+07 | - | 1.56 | 1.55 | -0.5% |
| 13C4-Benzo(a)Pyrene | 32.75 | 2.13E+07 | - | 1.23 | 1.17 | -4.5% |
| d12-Perylene | 33.01 | 2.14E+07 | - | 1.13 | 1.18 | 4.8% |
| 13C6-Indeno(1,2,3-cd)Pyrene | 39.09 | 1.56E+07 | - | 0.85 | 0.86 | 0.7% |
| 13C6-Dibenzo(ah)Anthracene | 39.28 | 1.56E+07 | - | 0.94 | 0.86 | -8.7% |
| 13C12-Benzo(ghi)Perylene | 40.94 | 2.21E+07 | - | 1.33 | 1.21 | -8.6% |
| AS--Anthracene FS | 20.96 | 5.46E+07 | - | 1.17 | 1.58 | 35.2% |
| SS-Fluorene | 18.06 | 4.74E+07 | - | 1.00 | 1.03 | 2.4% |
| SS-Terphenyl | 24.95 | 4.42E+07 | - | 0.79 | 0.71 | -11.0% |
| JS-Methylnaphthalene | 12.93 | 5.30E+07 | - | - | - | - |
| JS-Acenaphthene | 16.46 | 3.44E+07 | - | - | - | - |
| JS-Pyrene | 24.53 | 4.67E+07 | - | - | - | - |
| JS-Benzo(a)Pyrene | 32.64 | 1.82E+07 | - | - | - | - |

SGS ID: CS3_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 25-Sep-2024 10:17:30
User: DTF Datafile: 240925V01



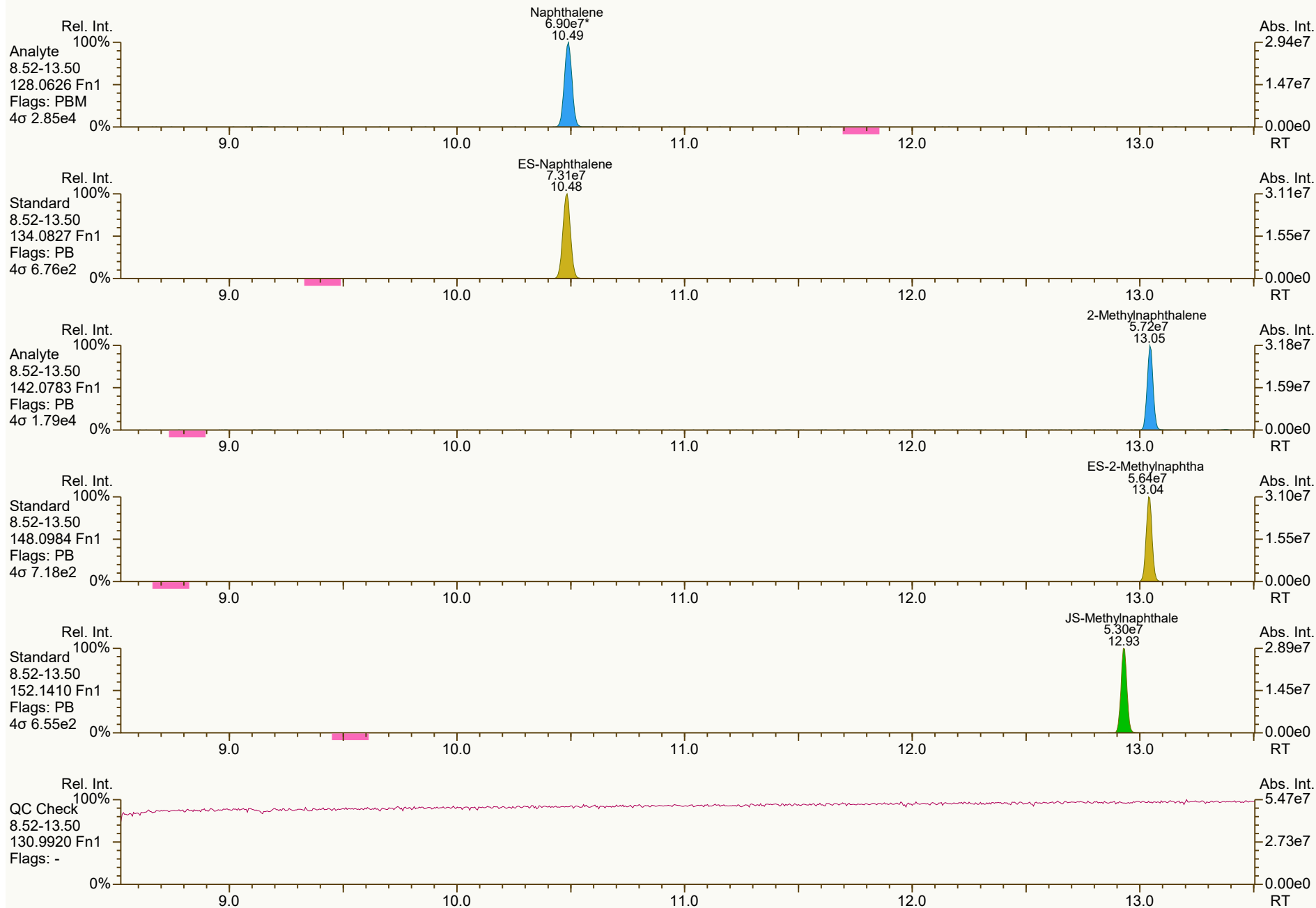
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 452-725

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:29 Page 1 of 9

SGS ID: CS3_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 25-Sep-2024 10:17:30
User: DTF Datafile: 240925V01



SGS ID: CS3_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 25-Sep-2024 10:17:30
User: DTF Datafile: 240925V01



Results: P:\B9700_B9799\B9770\B9770_21382 PAH\Resources\CS3_240925_PAH_VA.utp_res, saved 26-Sep-2024 11:36 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 5249, 8991, 9766, 8596, 7818 scc: 452-725

Peak annotation: Areas, Centroids
PKD: 25-Sep-2024 11:07 Printed: 26-Sep-2024 13:29 Page 3 of 9

SGS ID: CS3_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 25-Sep-2024 10:17:30
User: DTF Datafile: 240925V01



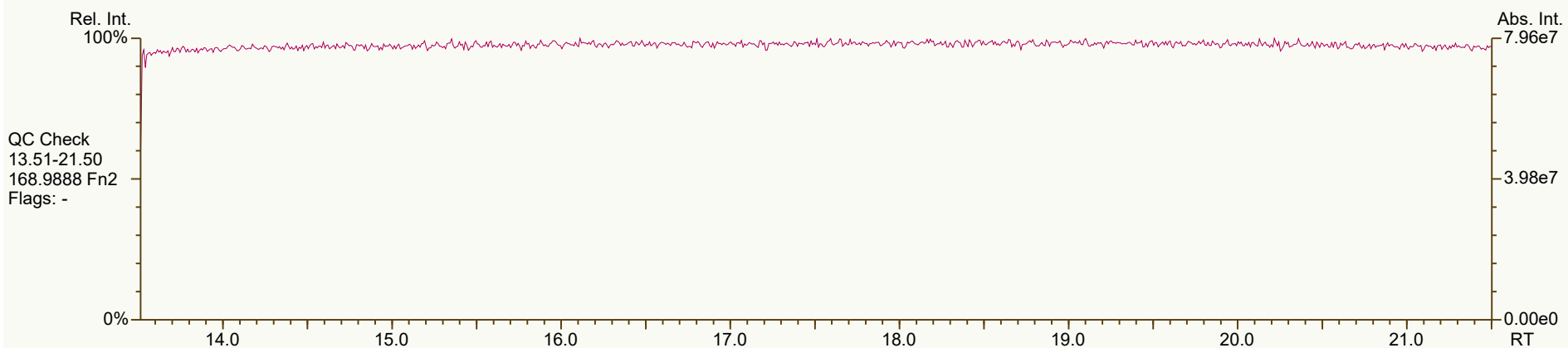
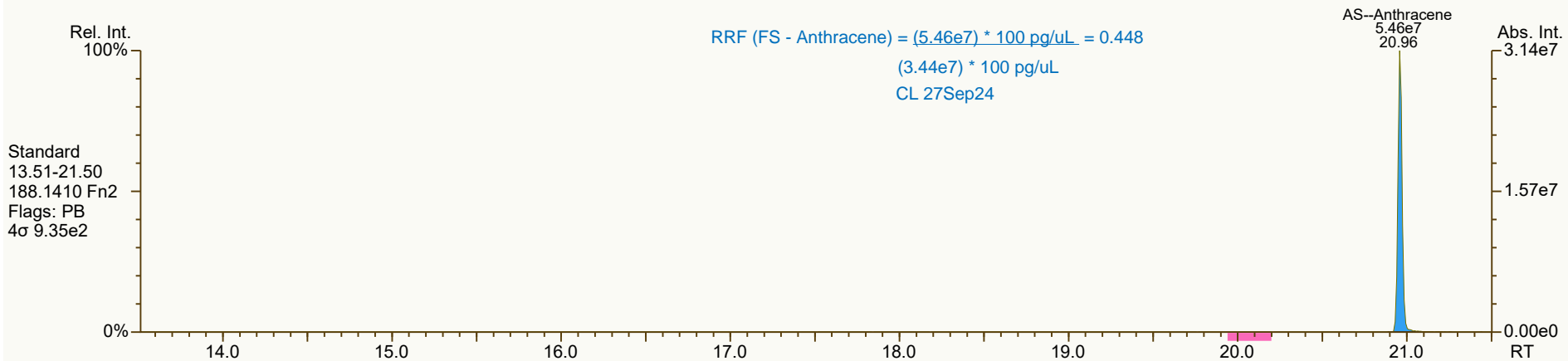
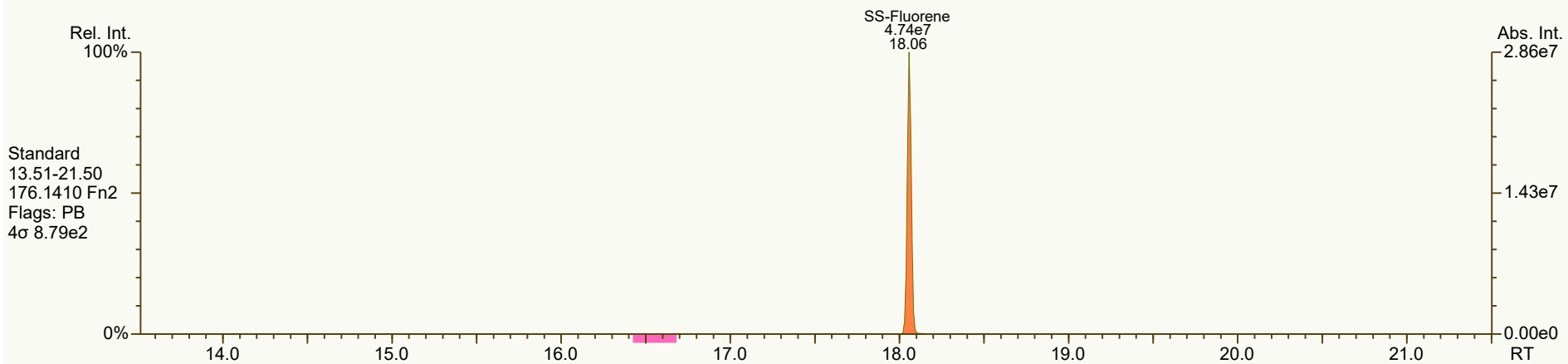
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1174, 8302, 7372, 6049 scc: 452-725

Peak annotation: Areas, Centroids
PKD: 25-Sep-2024 11:07 Printed: 26-Sep-2024 13:29 Page 4 of 9

SGS ID: CS3_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

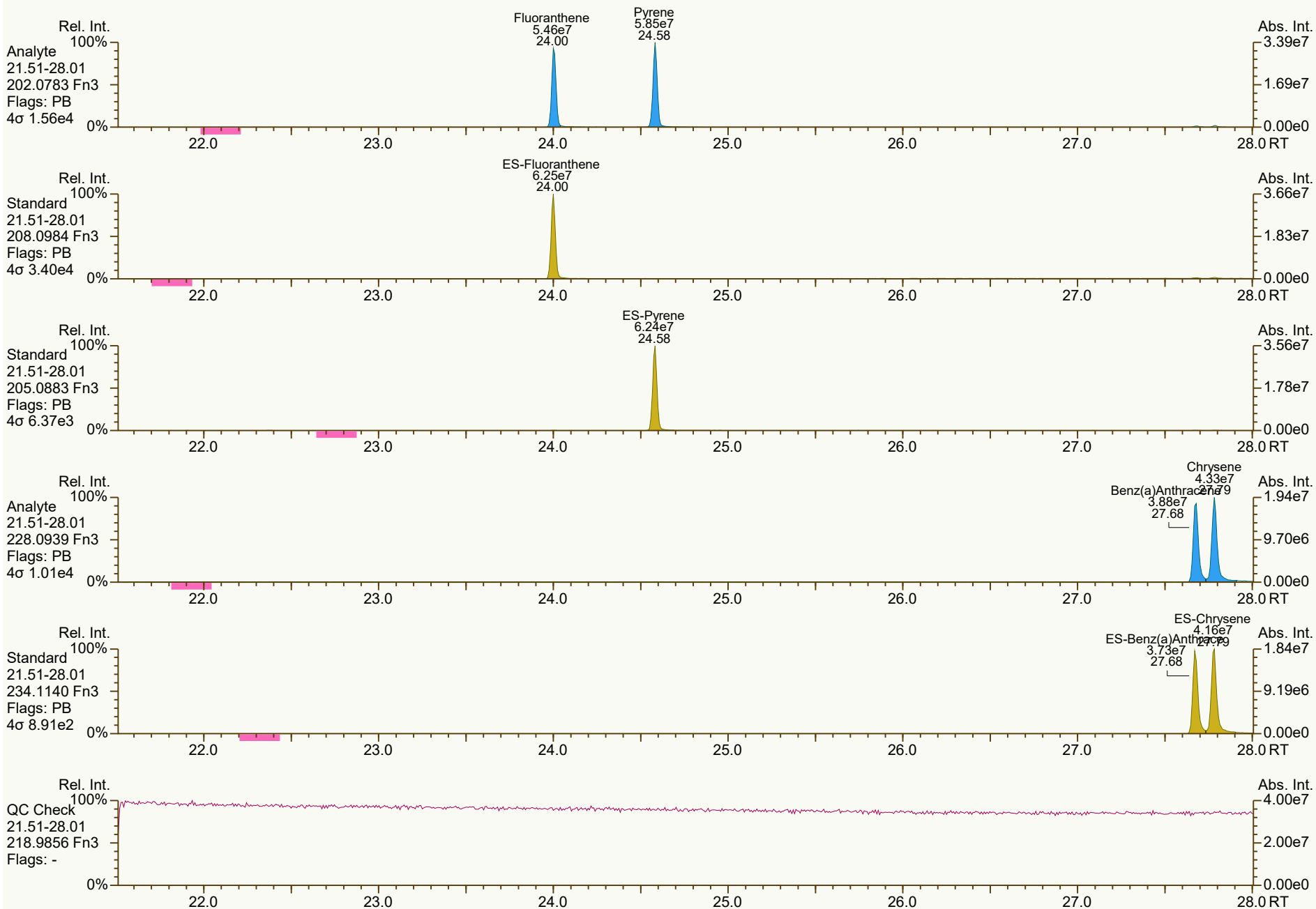
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User: DTF Datafile: 240925V01



SGS ID: CS3_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
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Acq: 25-Sep-2024 10:17:30
User: DTF Datafile: 240925V01



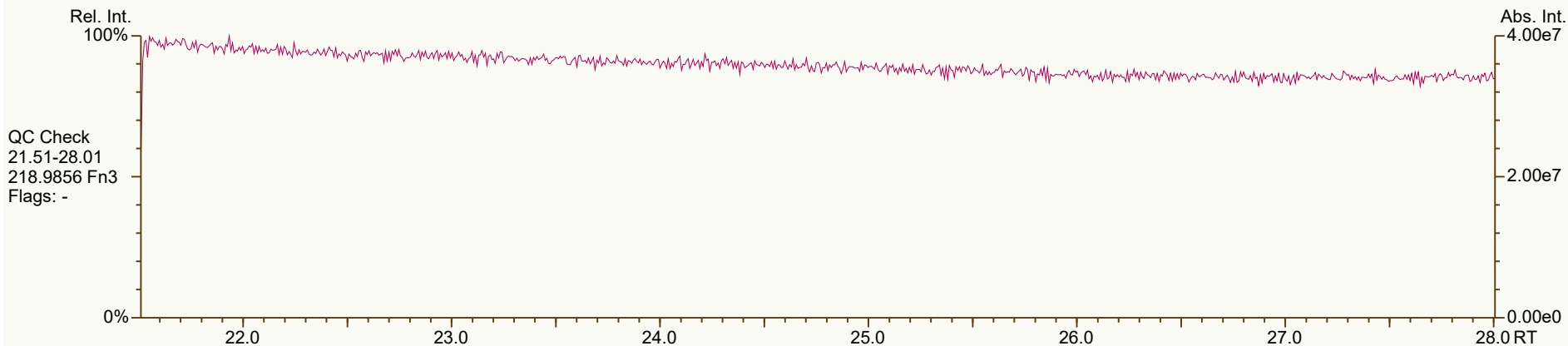
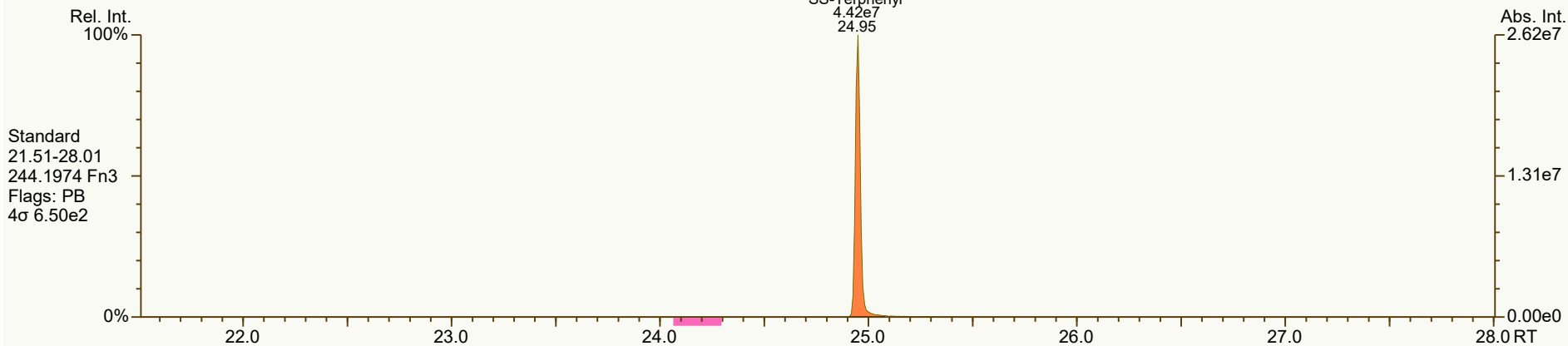
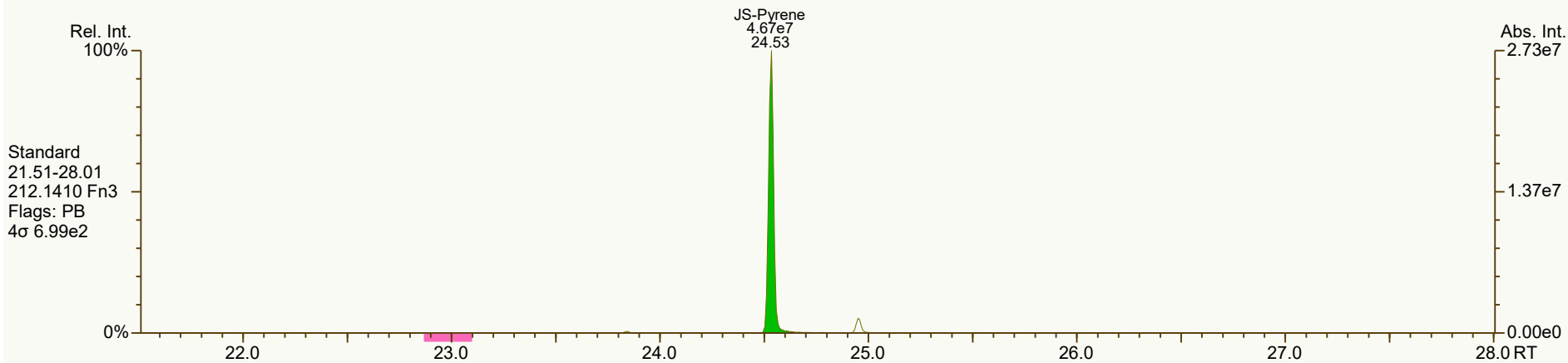
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Peak annotation: Areas, Centroids
PKD: 25-Sep-2024 11:07 Printed: 26-Sep-2024 13:29 Page 6 of 9

SGS ID: CS3_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

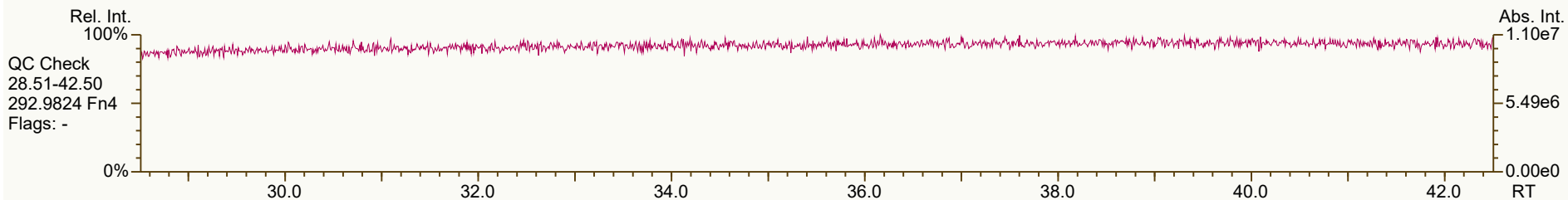
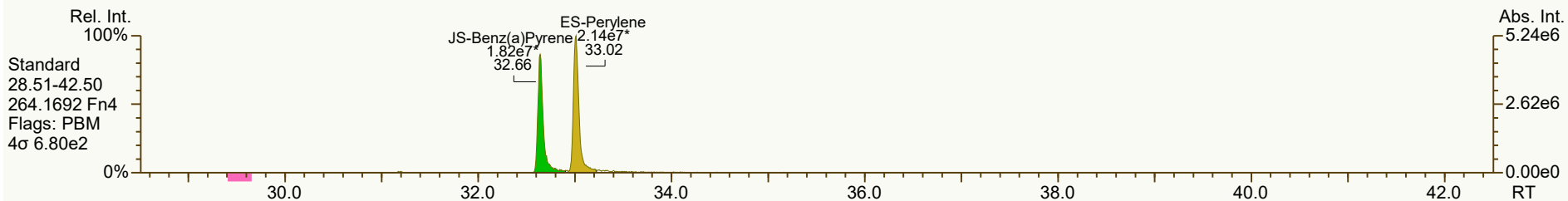
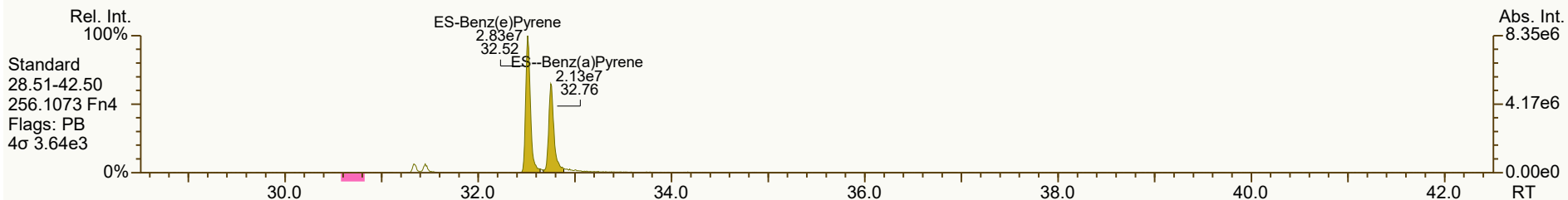
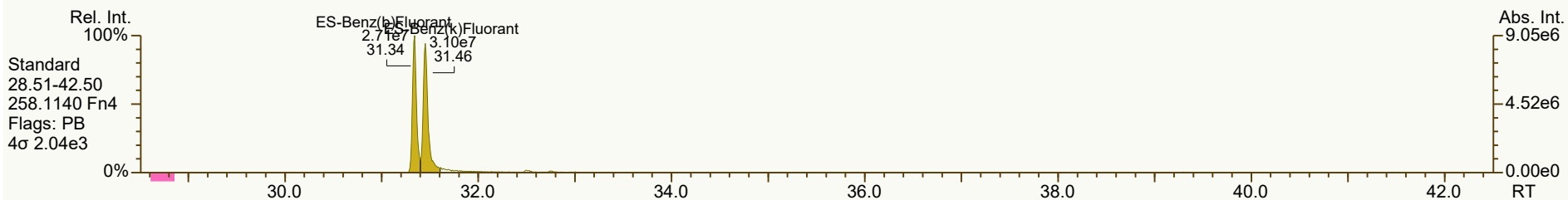
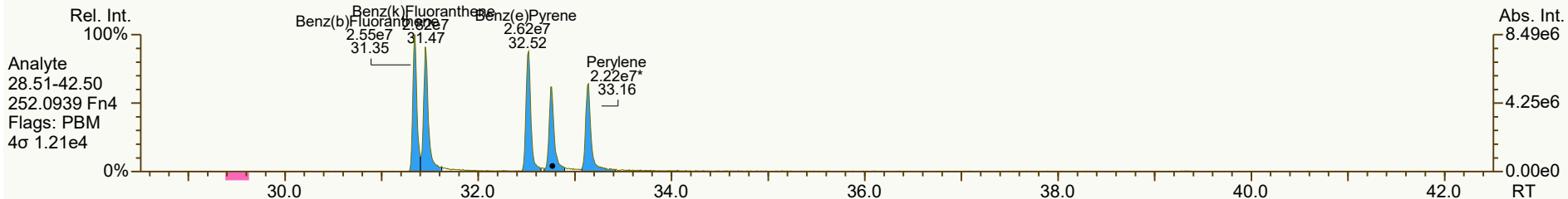
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User: DTF Datafile: 240925V01



SGS ID: CS3_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 25-Sep-2024 10:17:30
User: DTF Datafile: 240925V01



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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 3449, 5293, 9351, 1923 scc: 452-725

Peak annotation: Areas, Centroids
Revised: 25-Sep-2024 11:08 (DTF) Printed: 26-Sep-2024 13:29 Page 8 of 9

SGS ID: CS3_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 5

Acq: 25-Sep-2024 10:17:30
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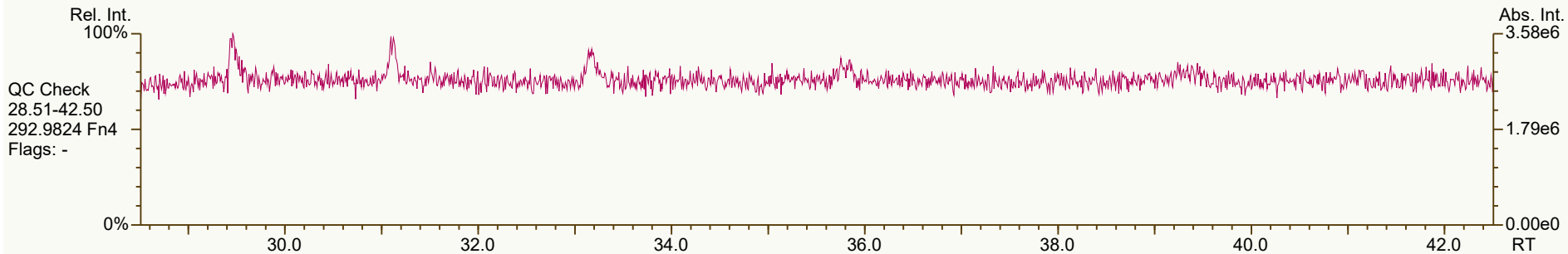
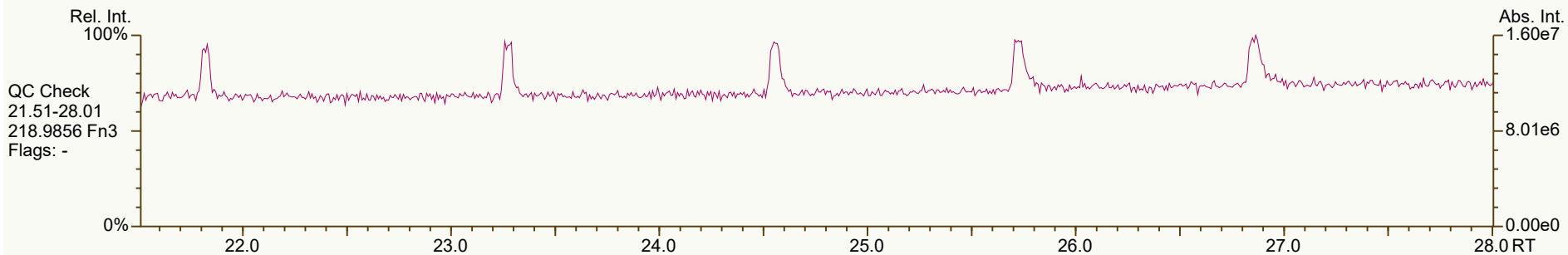
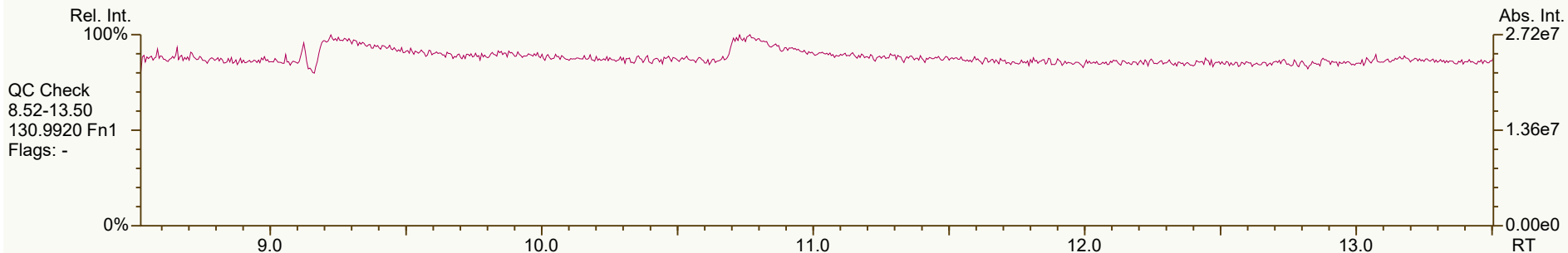
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Peak annotation: Areas, Centroids
Revised: 25-Sep-2024 11:08 (DTF) Printed: 26-Sep-2024 13:29 Page 9 of 9

SGS ID: SB_240918_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 19-Sep-2024 14:44:31
User: DTF Datafile: 240919V04



Results: P:\B9700_B9799\B9770\B9770_21382 PAH\Resources\SB_240918_PAH_VA.utp_res, saved 20-Sep-2024 14:19 (DTF)
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Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:26 Page 1 of 9

SGS ID: SB_240918_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 19-Sep-2024 14:44:31
User: DTF Datafile: 240919V04



Results: P:\B9700_B9799\B9770\B9770_21382 PAH\Resources\SB_240918_PAH_VA.utp_res, saved 20-Sep-2024 14:19 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 2925, 1287, 3244, 6605, 2092 scc: 260-477

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:19 Printed: 26-Sep-2024 13:26 Page 2 of 9

SGS ID: SB_240918_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 19-Sep-2024 14:44:31
User: DTF Datafile: 240919V04



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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 8230, 2828, 2801, 8655, 2421 scc: 260-477

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:19 Printed: 26-Sep-2024 13:26 Page 3 of 9

SGS ID: SB_240918_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 19-Sep-2024 14:44:31
User: DTF Datafile: 240919V04



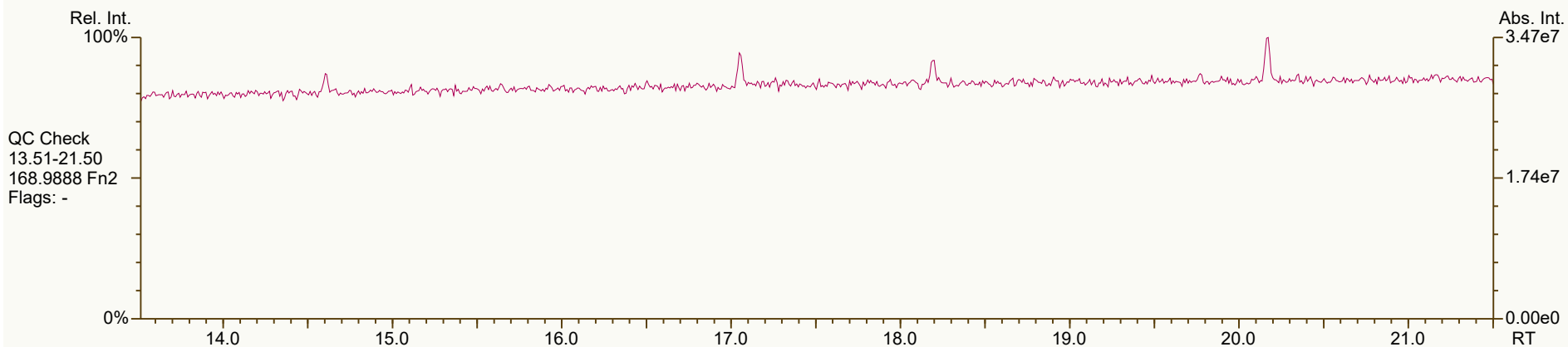
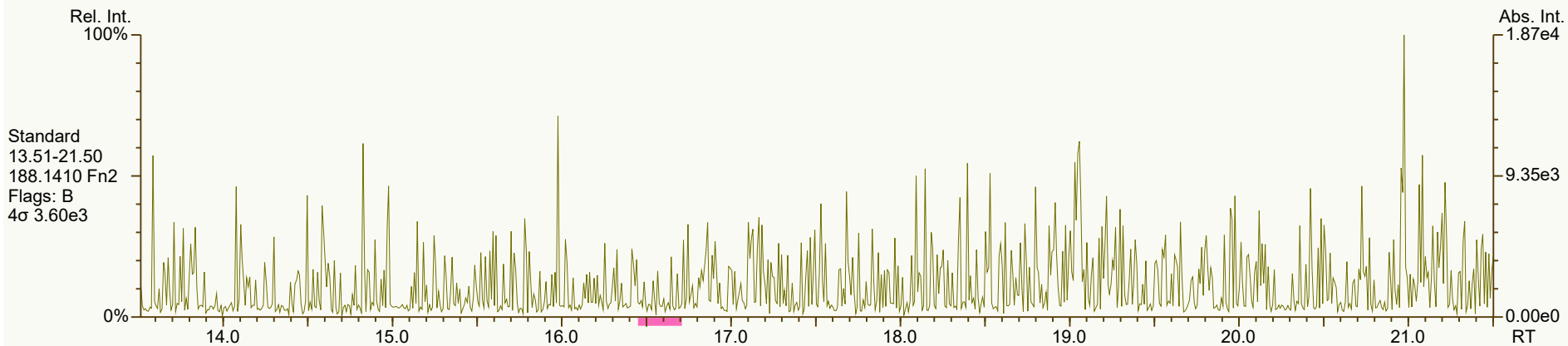
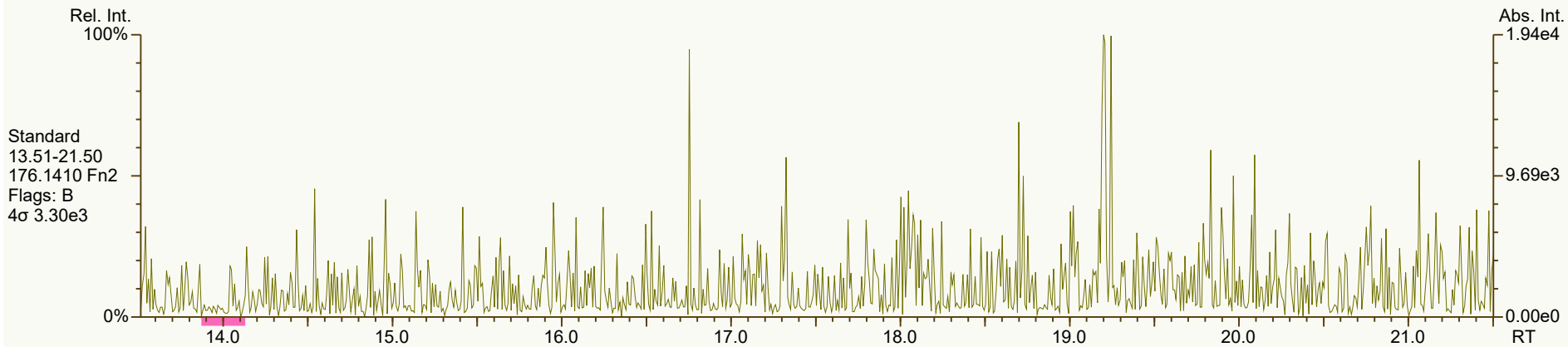
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 7955, 9295, 1038, 3206 scc: 260-477

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:19 Printed: 26-Sep-2024 13:26 Page 4 of 9

SGS ID: SB_240918_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 19-Sep-2024 14:44:31
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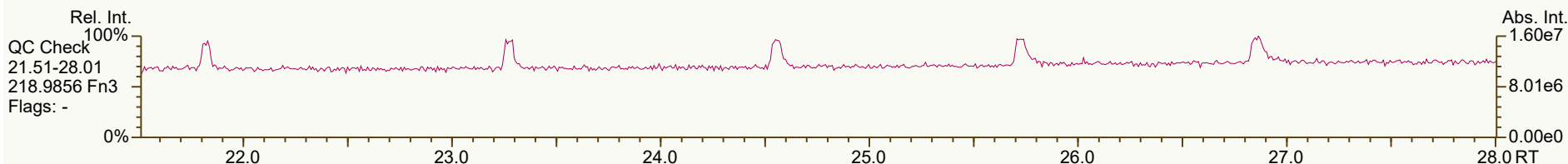
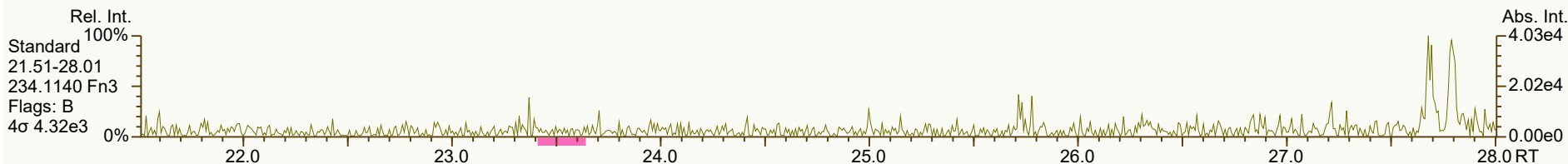
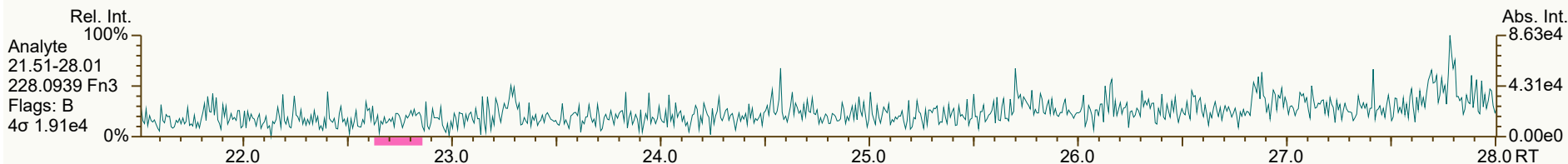
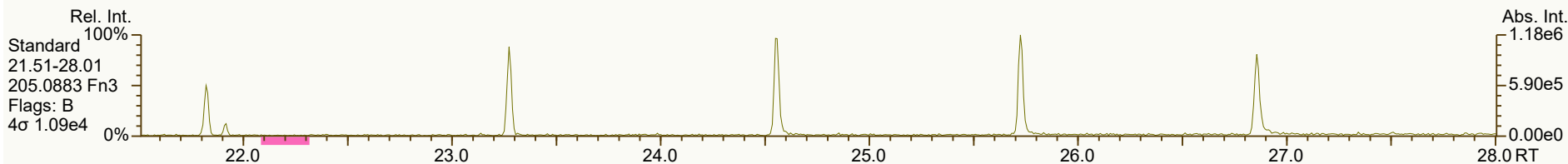
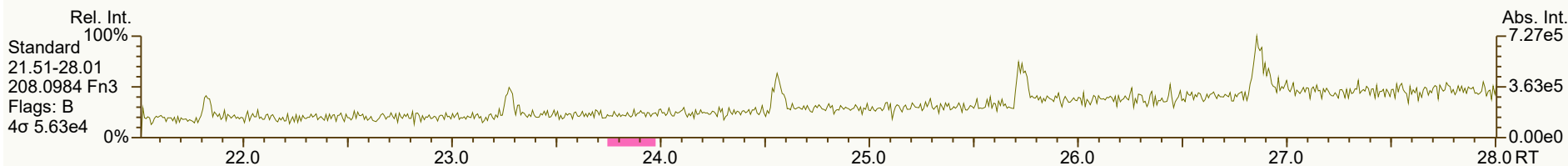
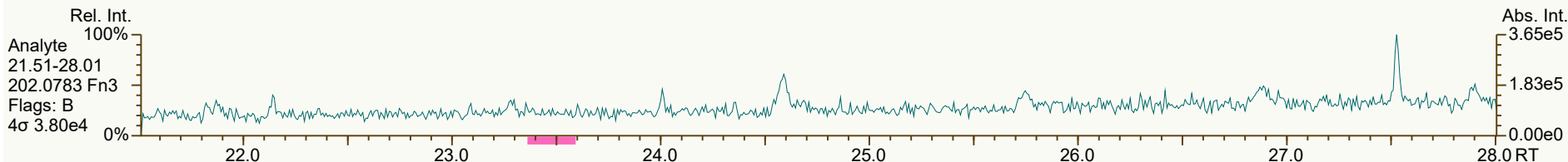
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 3949, 1122 scc: 260-477

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:19 Printed: 26-Sep-2024 13:26 Page 5 of 9

SGS ID: SB_240918_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 19-Sep-2024 14:44:31
User: DTF Datafile: 240919V04



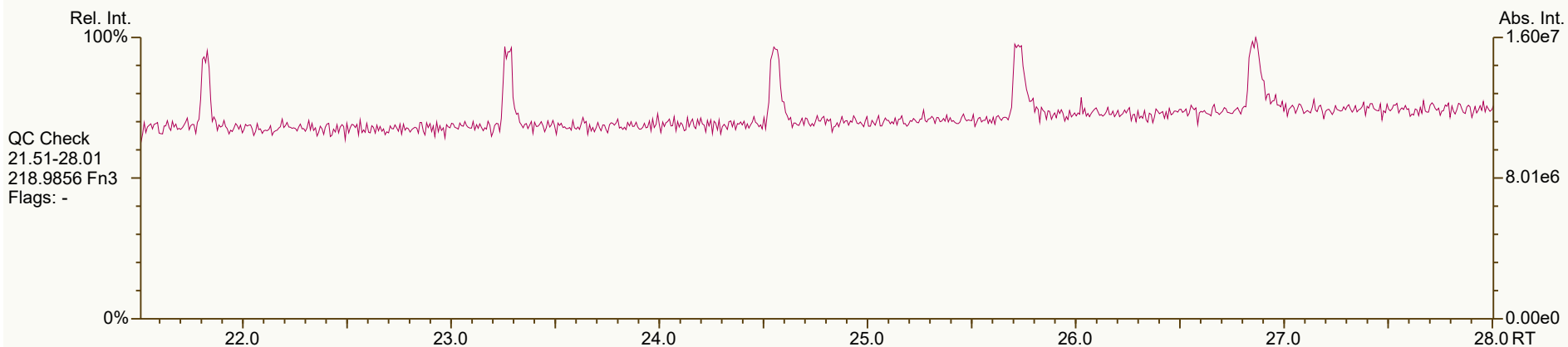
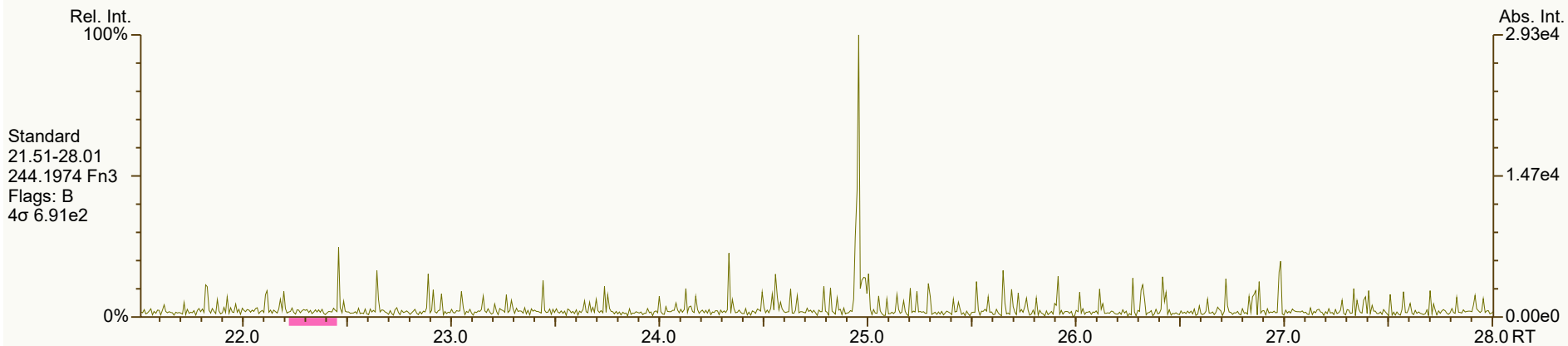
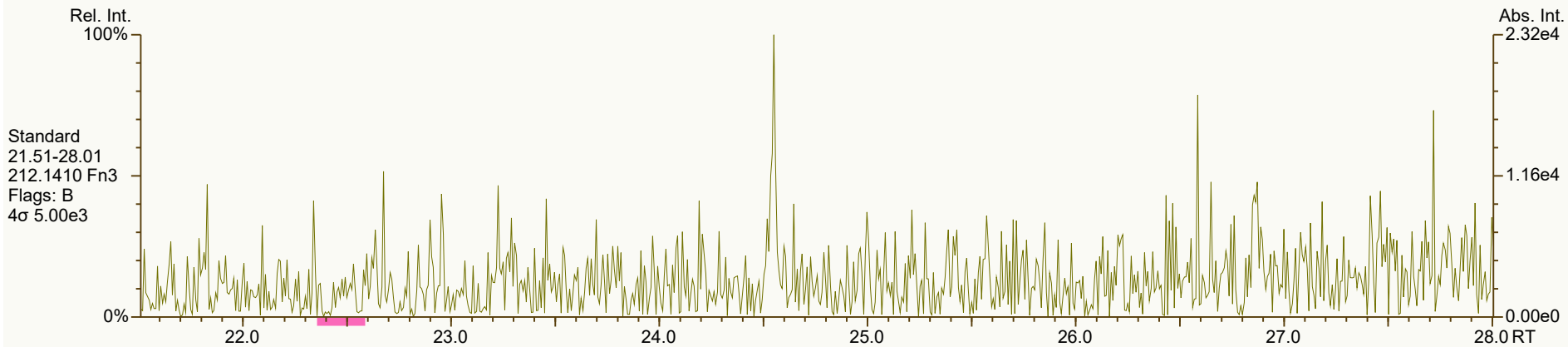
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1448, 2862, 2246, 6963, 1957 scc: 260-477

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:19 Printed: 26-Sep-2024 13:26 Page 6 of 9

SGS ID: SB_240918_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 19-Sep-2024 14:44:31
User: DTF Datafile: 240919V04



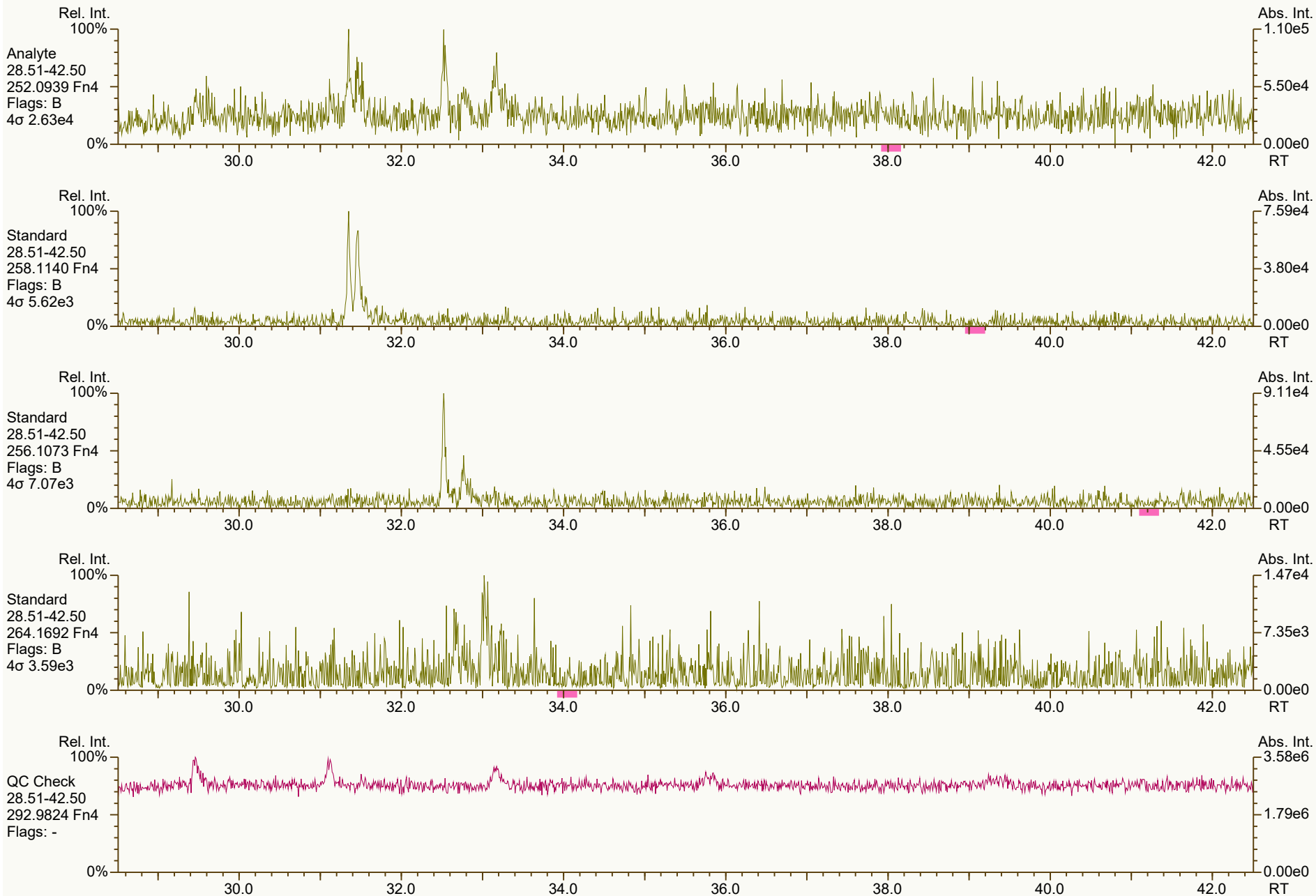
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:19 Printed: 26-Sep-2024 13:26 Page 7 of 9

SGS ID: SB_240918_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 19-Sep-2024 14:44:31
User: DTF Datafile: 240919V04



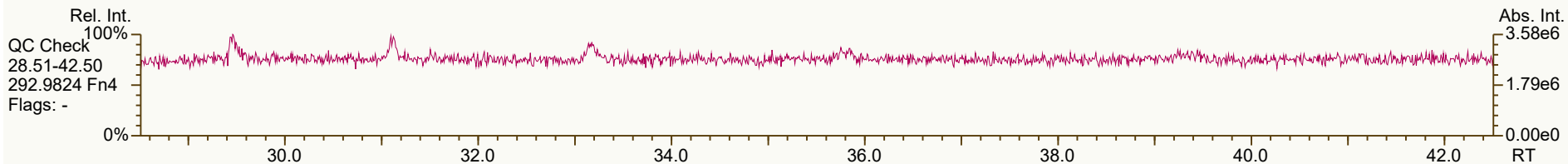
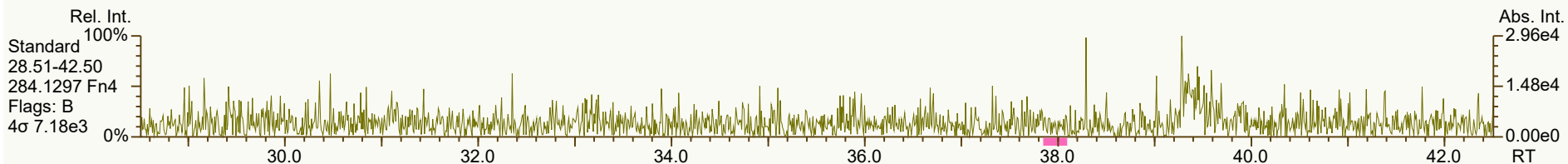
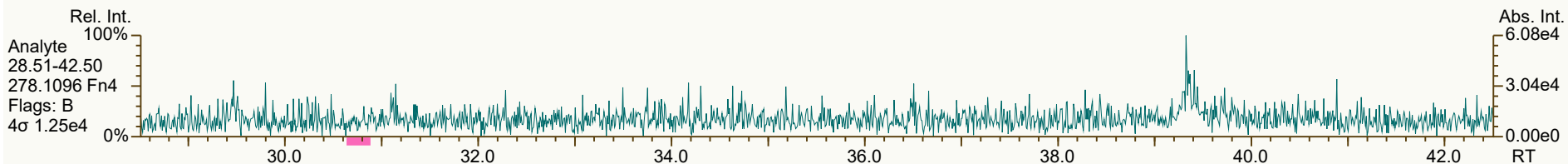
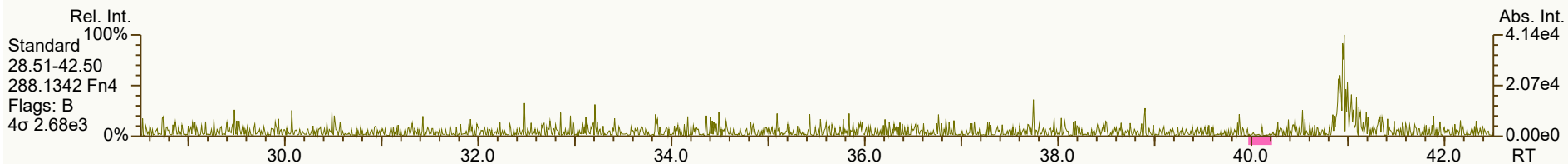
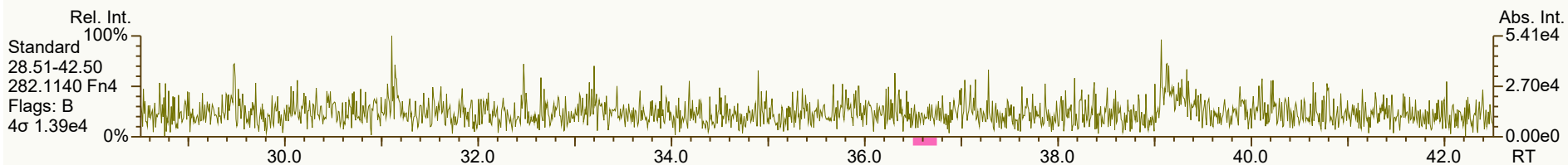
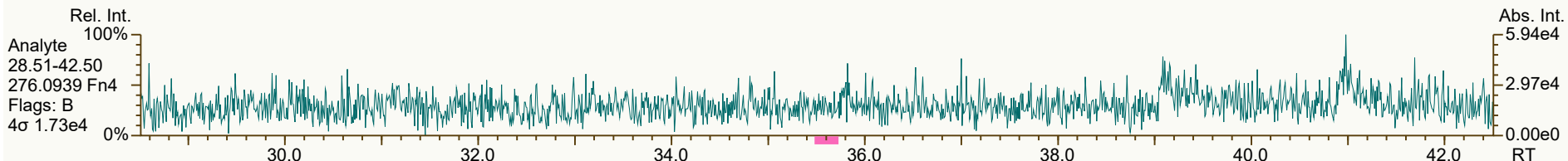
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 0190, 9563, 4532, 3190 scc: 260-477

Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:19 Printed: 26-Sep-2024 13:26 Page 8 of 9

SGS ID: SB_240918_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 19-Sep-2024 14:44:31
User: DTF Datafile: 240919V04



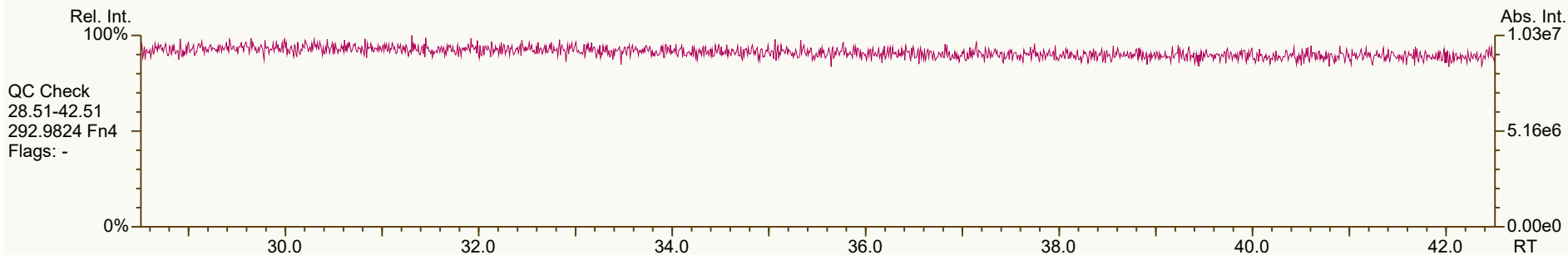
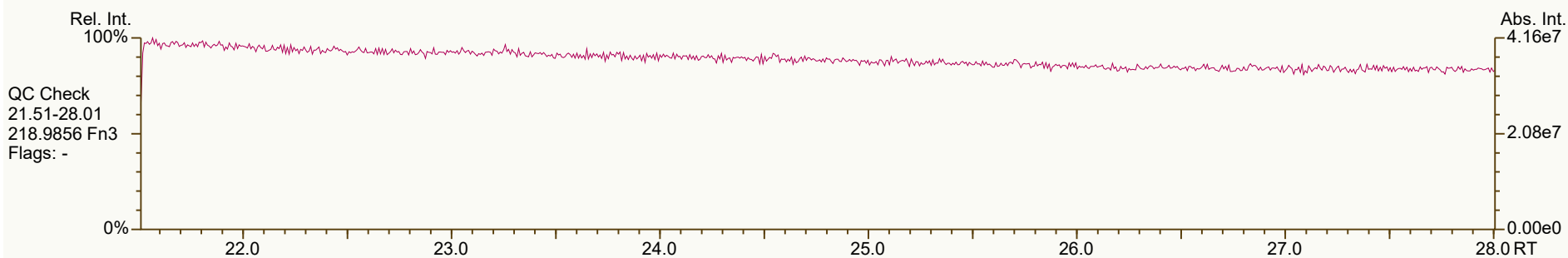
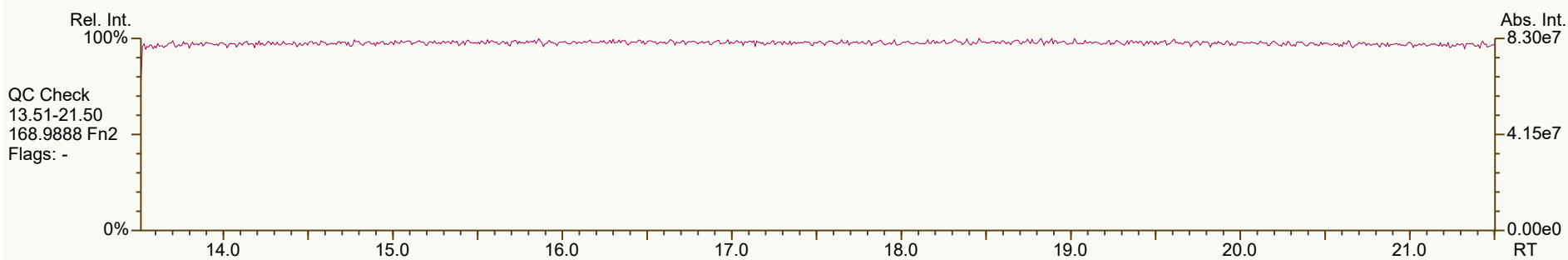
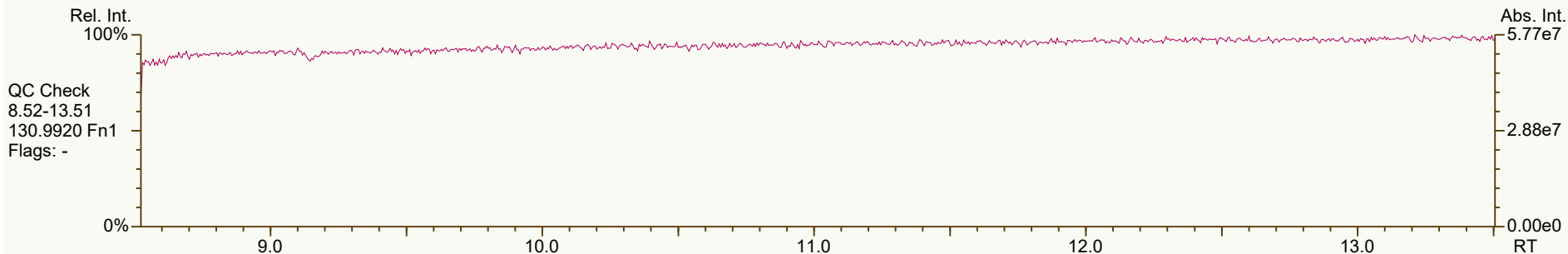
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Peak annotation: Areas, Centroids
PKD: 20-Sep-2024 14:19 Printed: 26-Sep-2024 13:26 Page 9 of 9

SGS ID: SB_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 25-Sep-2024 11:10:05
User: DTF Datafile: 240925V02



Results: P:\B9700_B9799\B9770\B9770_21382 PAH\Resources\SB_240925_PAH_VA.utp_res, saved 26-Sep-2024 09:59 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 453-148

Peak annotation: Areas, Centroids
PKD: n/a Printed: 26-Sep-2024 13:29 Page 1 of 9

SGS ID: SB_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 25-Sep-2024 11:10:05
User: DTF Datafile: 240925V02



Results: P:\B9700_B9799\B9770\B9770_21382 PAH\Resources\SB_240925_PAH_VA.utp_res, saved 26-Sep-2024 09:59 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 8499, 3696, 4432, 0670, 3381 scc: 453-148

Peak annotation: Areas, Centroids
PKD: 26-Sep-2024 09:59 Printed: 26-Sep-2024 13:29 Page 2 of 9

SGS ID: SB_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 25-Sep-2024 11:10:05
User: DTF Datafile: 240925V02



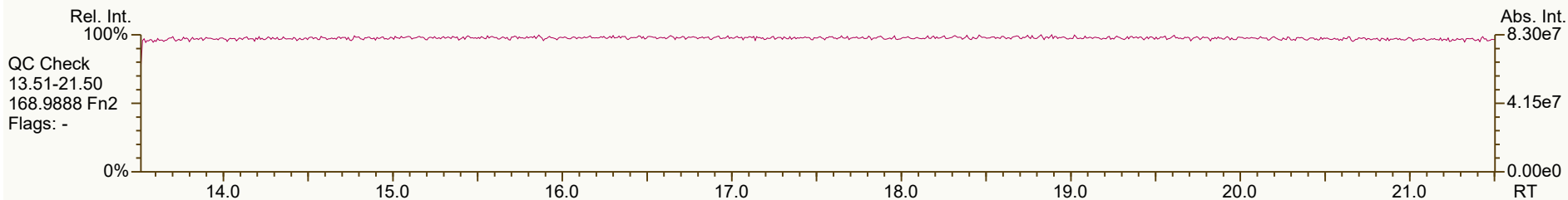
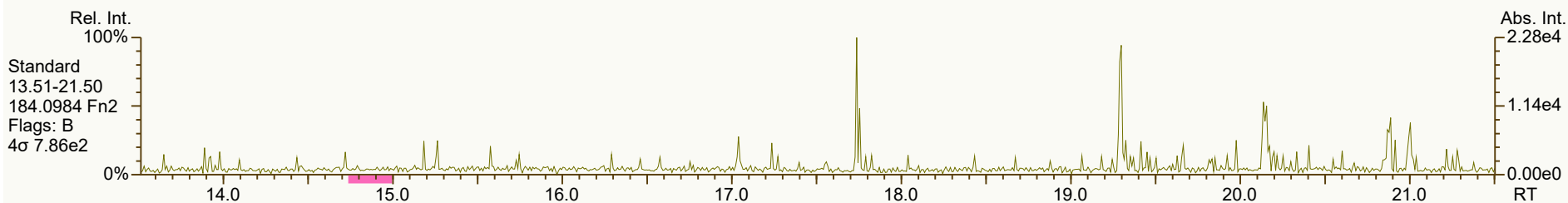
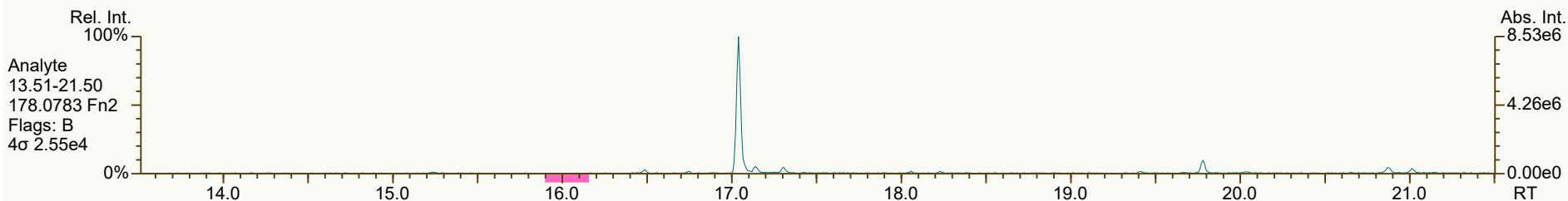
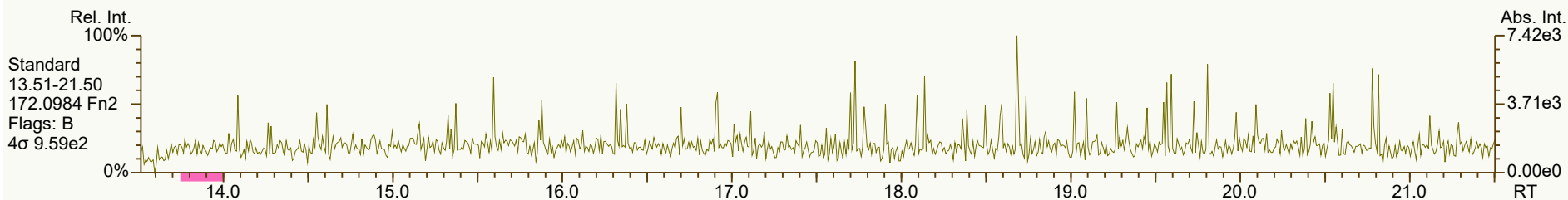
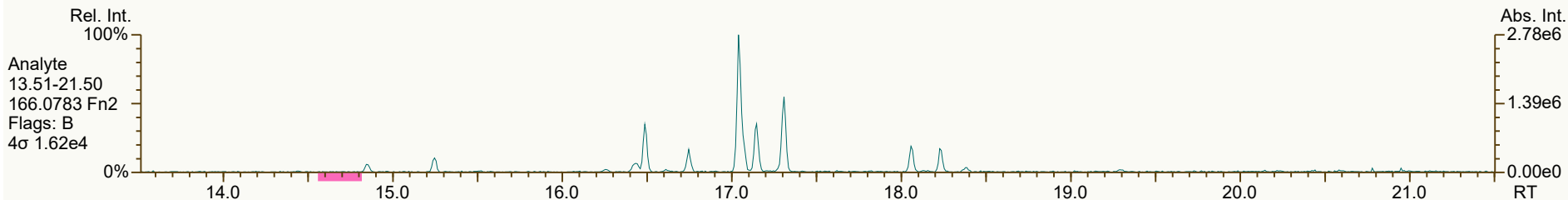
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 4336, 7308, 3688, 2961, 9354 scc: 453-148

Peak annotation: Areas, Centroids
PKD: 26-Sep-2024 09:59 Printed: 26-Sep-2024 13:29 Page 3 of 9

SGS ID: SB_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 25-Sep-2024 11:10:05
User: DTF Datafile: 240925V02



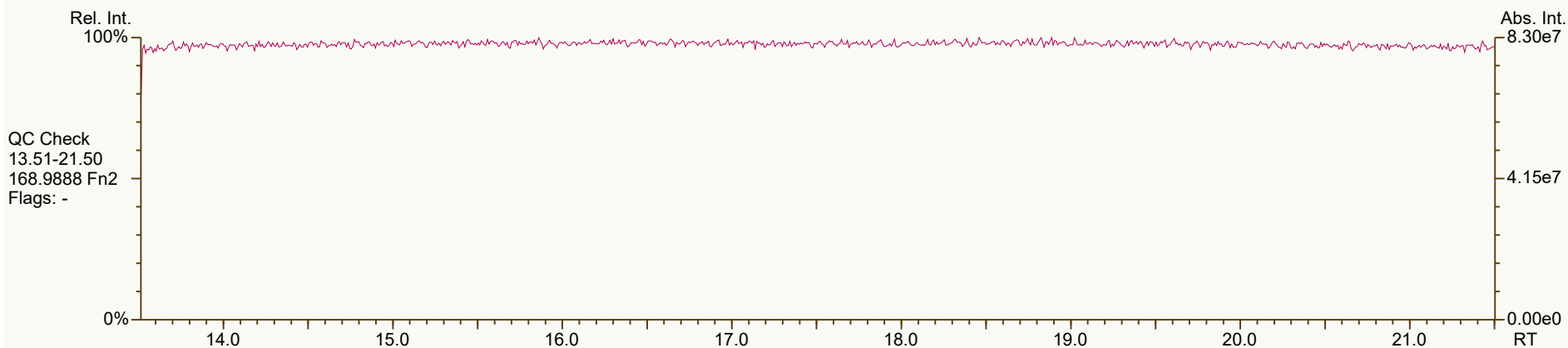
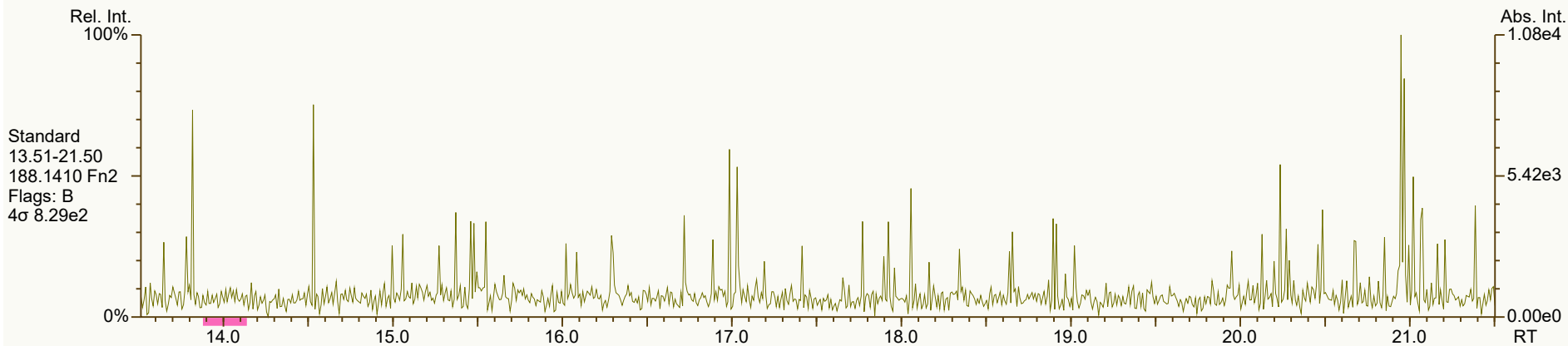
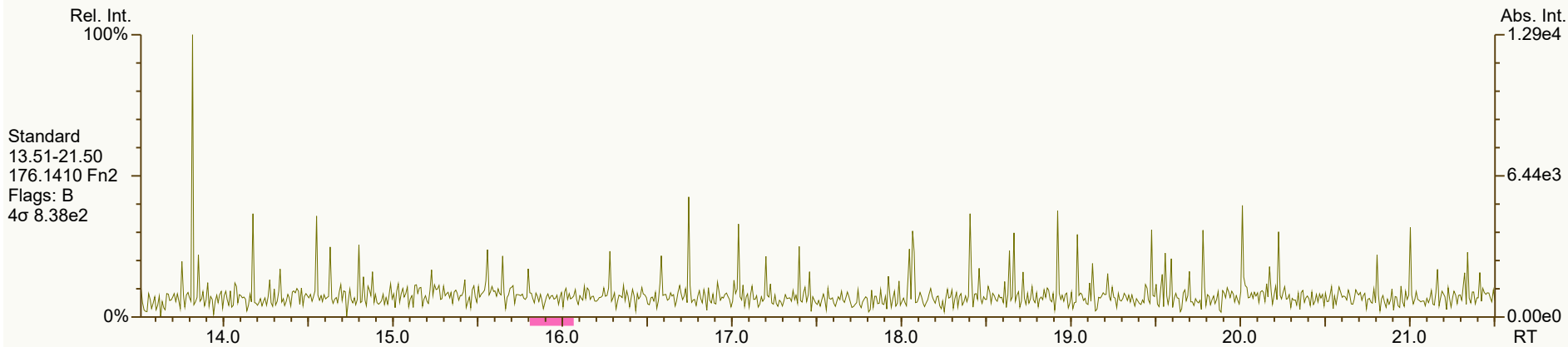
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 6428, 5513, 6477, 7622 scc: 453-148

Peak annotation: Areas, Centroids
PKD: 26-Sep-2024 09:59 Printed: 26-Sep-2024 13:29 Page 4 of 9

SGS ID: SB_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

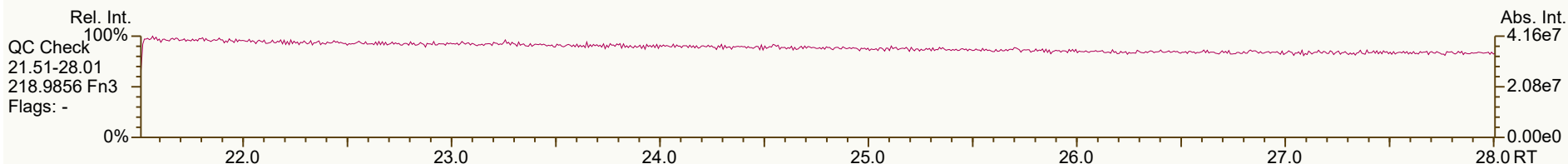
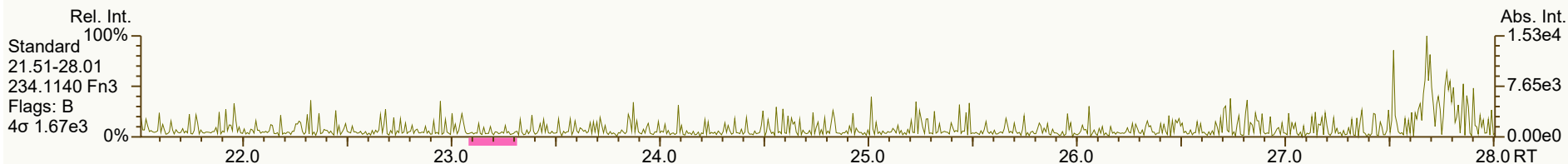
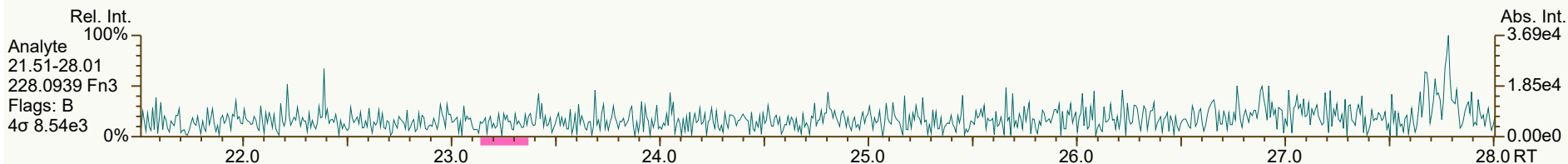
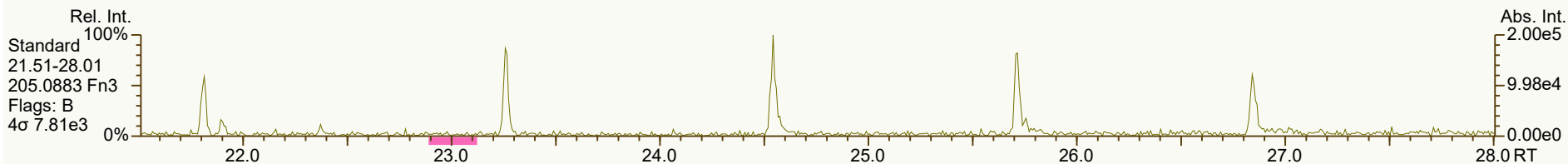
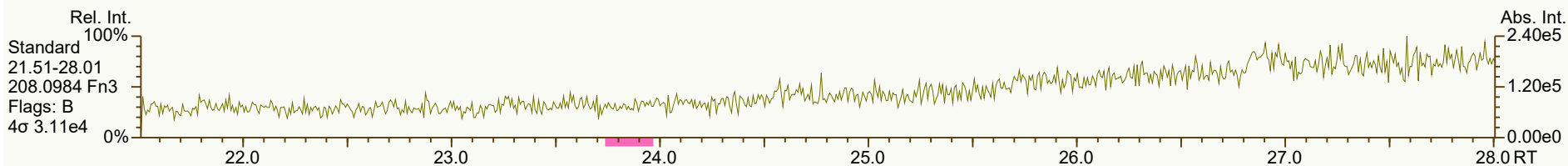
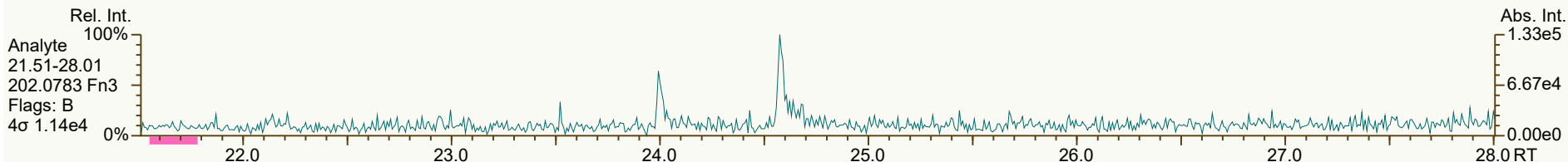
Acq: 25-Sep-2024 11:10:05
User: DTF Datafile: 240925V02



SGS ID: SB_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

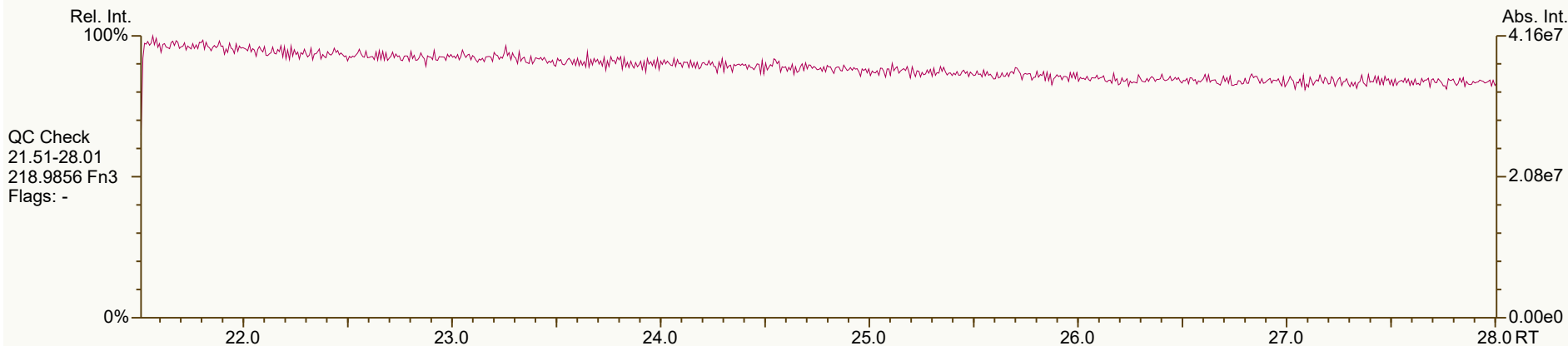
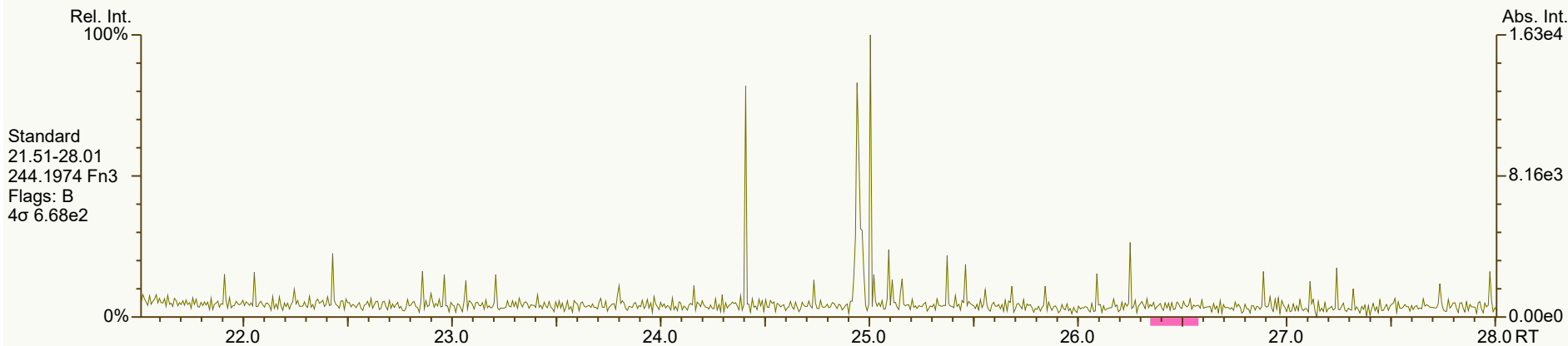
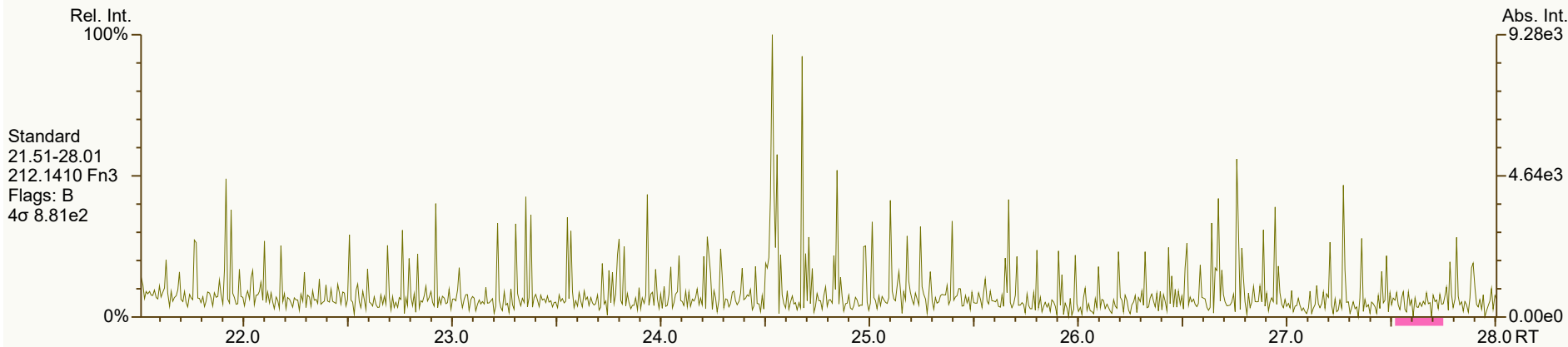
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SGS ID: SB_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

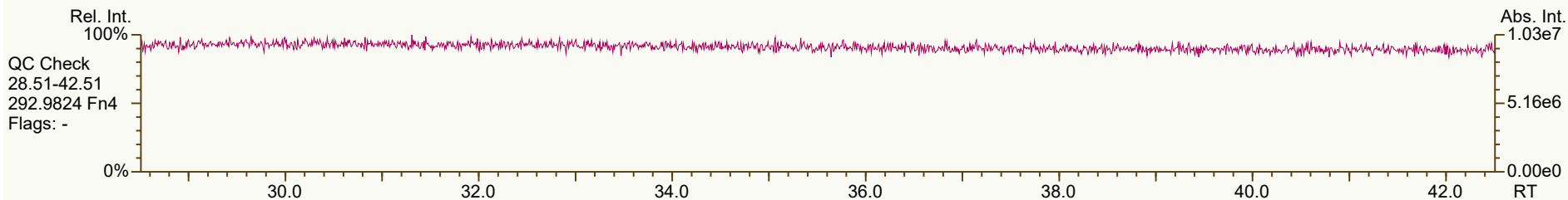
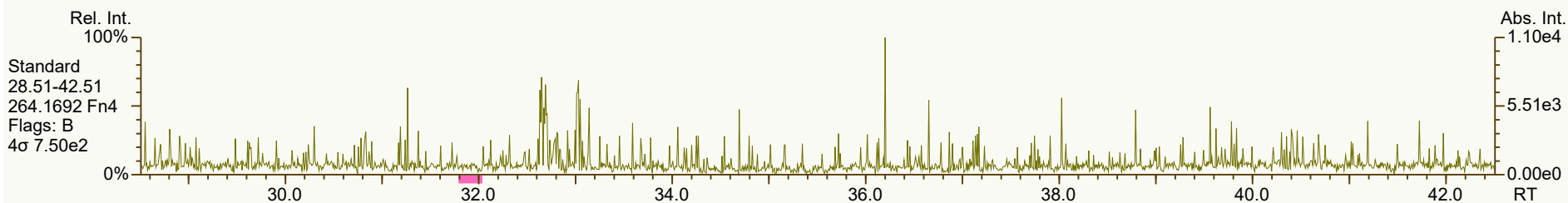
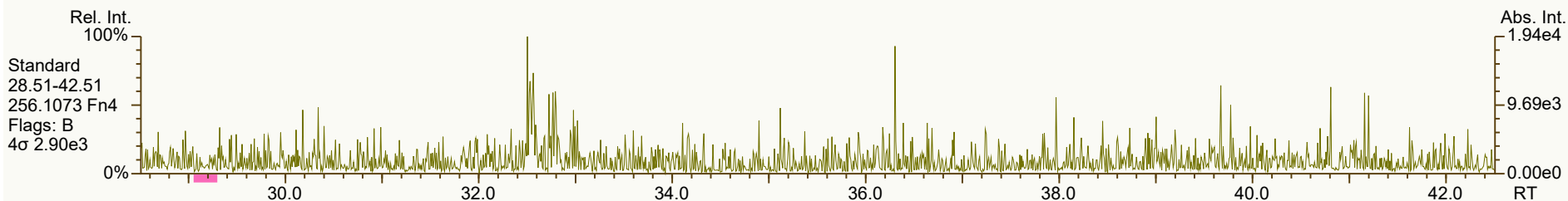
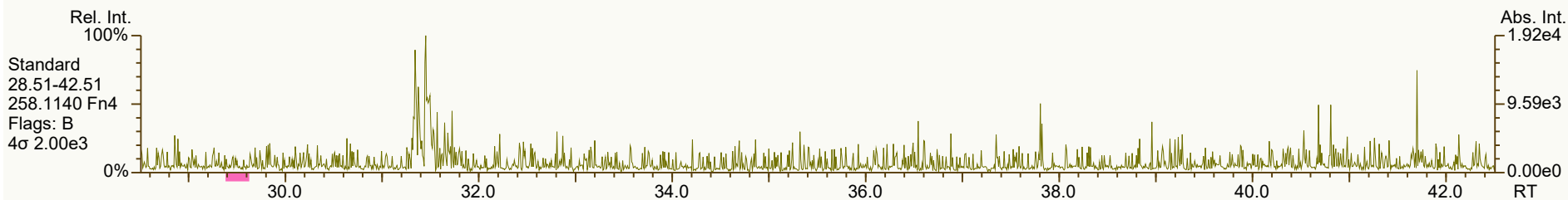
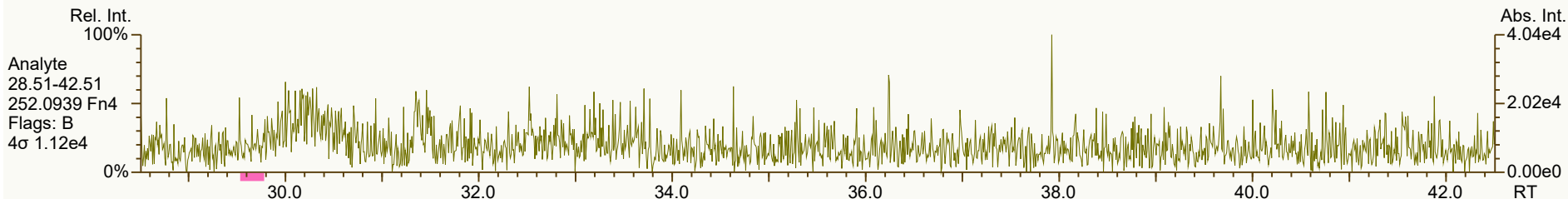
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SGS ID: SB_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 25-Sep-2024 11:10:05
User: DTF Datafile: 240925V02



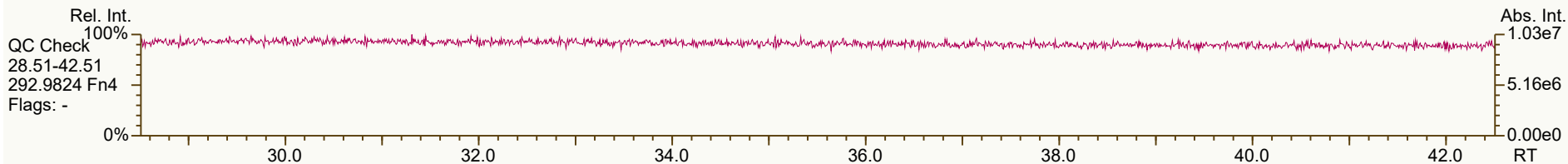
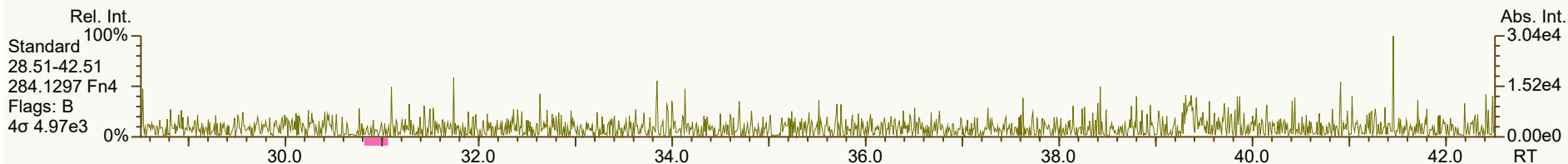
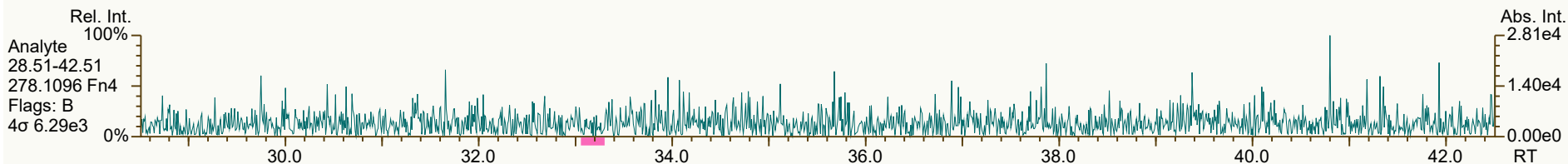
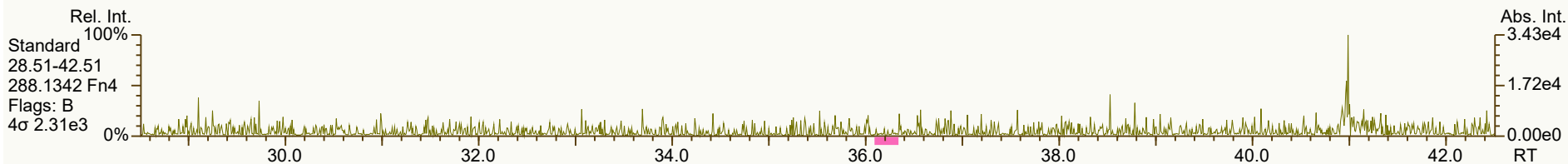
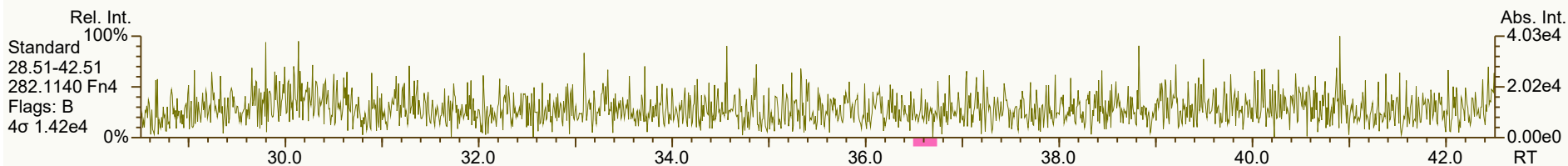
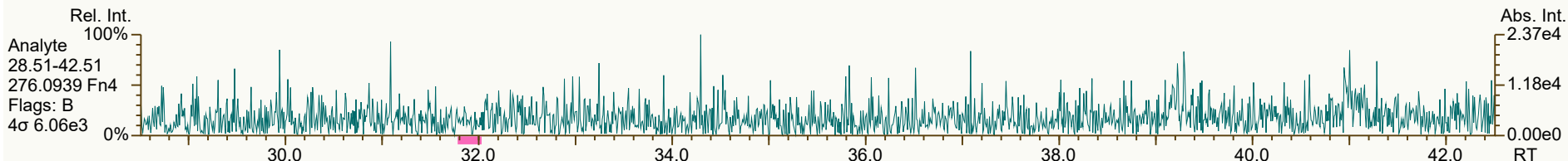
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1905, 5430, 1601, 1285 scc: 453-148

Peak annotation: Areas, Centroids
PKD: 26-Sep-2024 09:59 Printed: 26-Sep-2024 13:29 Page 8 of 9

SGS ID: SB_240925_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 25-Sep-2024 11:10:05
User: DTF Datafile: 240925V02



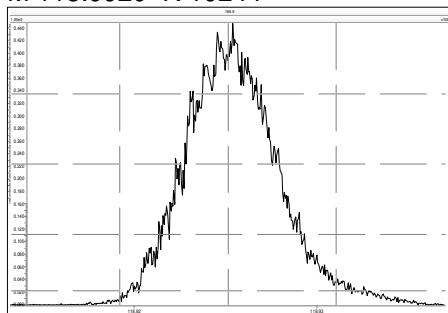
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 4763, 8387, 1216, 4231, 0461 scc: 453-148

Peak annotation: Areas, Centroids
PKD: 26-Sep-2024 09:59 Printed: 26-Sep-2024 13:29 Page 9 of 9

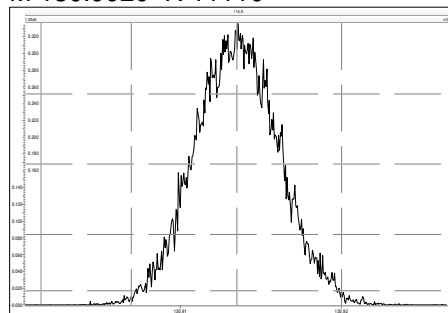
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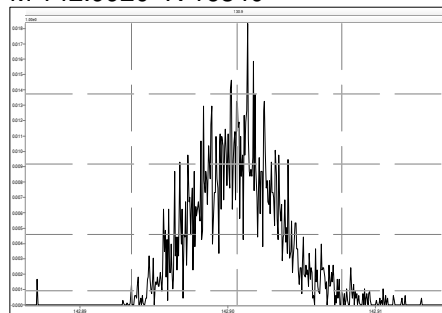
M 118.9920 R 10244



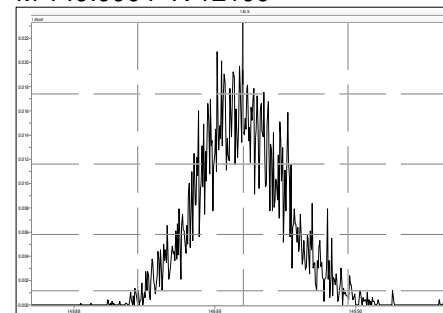
M 130.9920 R 11110



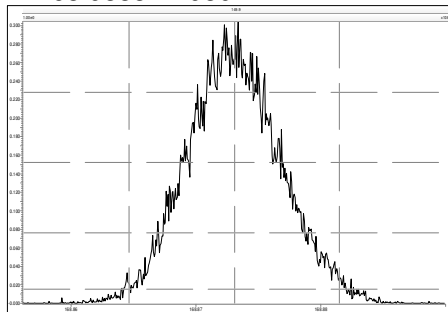
M 142.9920 R 16340



M 149.9904 R 12199



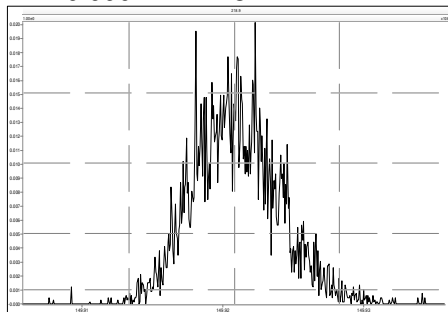
M 168.9888 R 9801



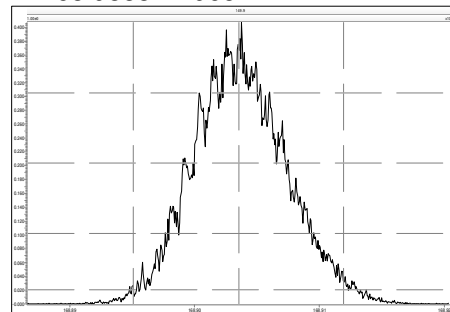
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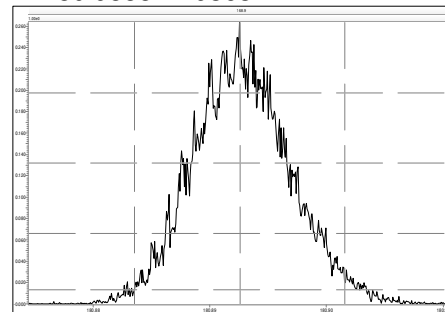
M 149.9904 R 11737



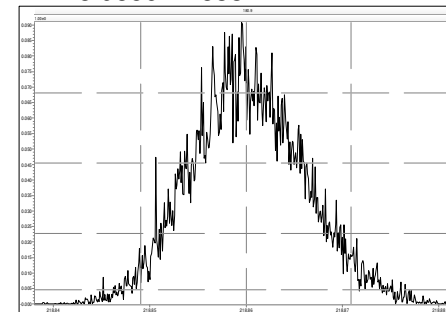
M 168.9888 R 9651



M 180.9888 R 9363



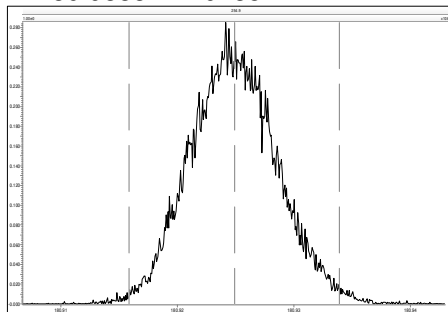
M 218.9856 R 8332



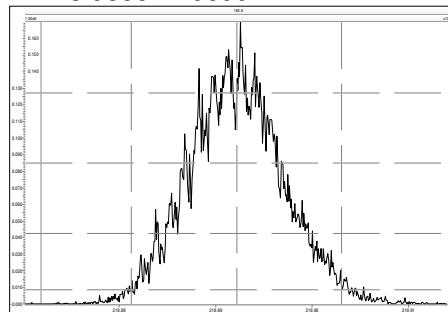
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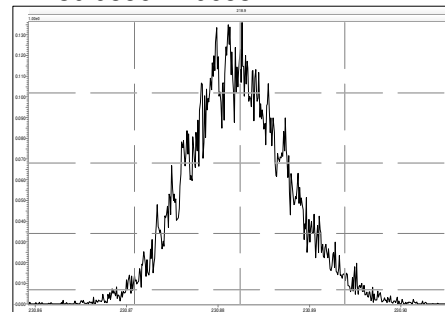
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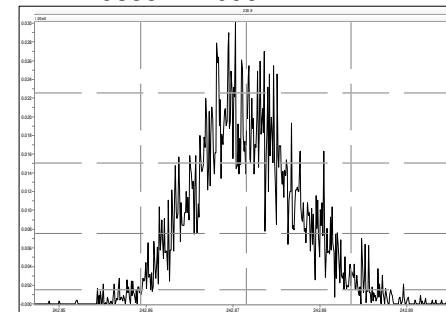
M 218.9856 R 9690



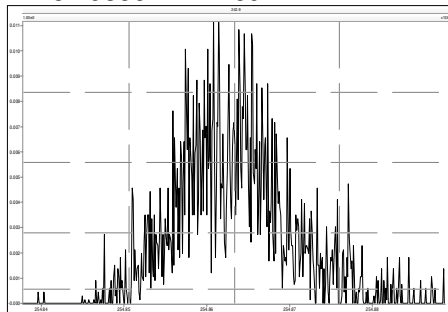
M 230.9856 R 9653



M 242.9856 R 10962



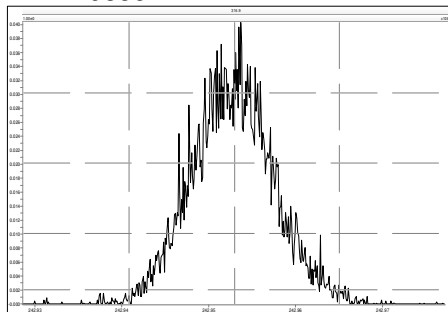
M 254.9856 R 11469



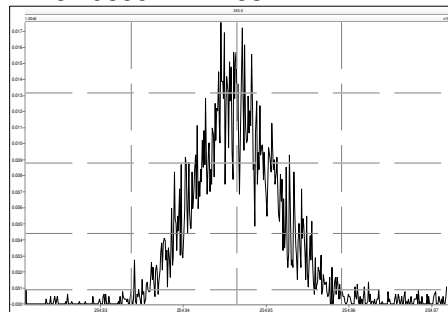
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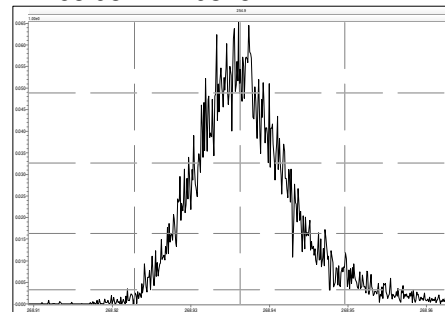
M 242.9856 R 11112



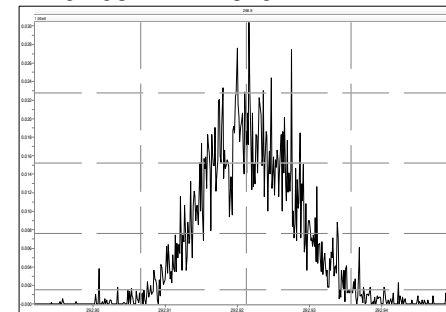
M 254.9856 R 12253



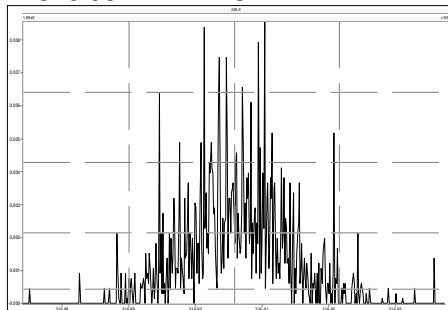
M 268.9824 R 9325



M 292.9824 R 11846

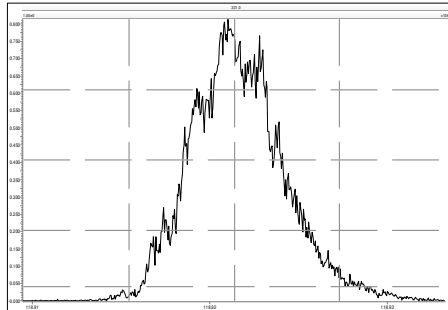


M 316.9824 R 21737

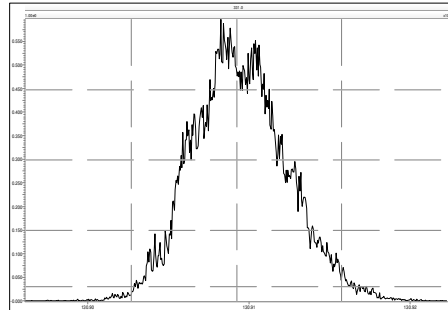


Printed: Friday, September 20, 2024 00:08:25 Eastern Daylight Time

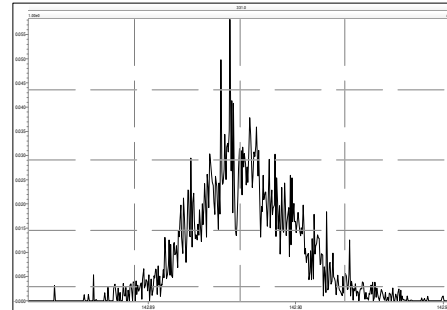
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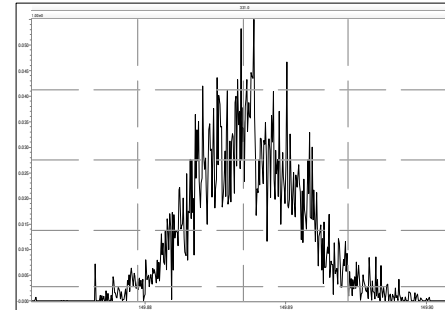
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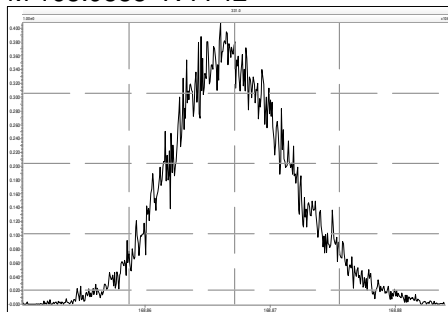
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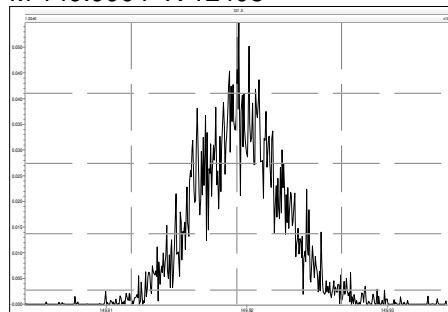
M 149.9904 R 11667



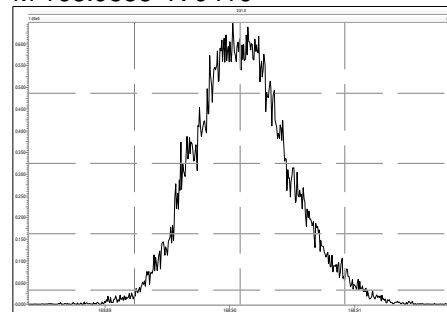
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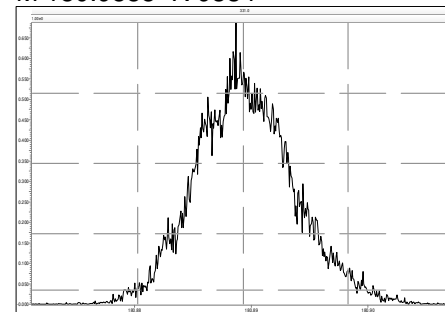
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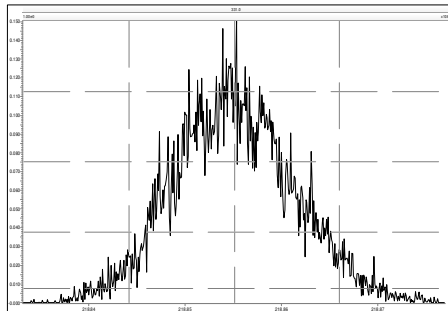
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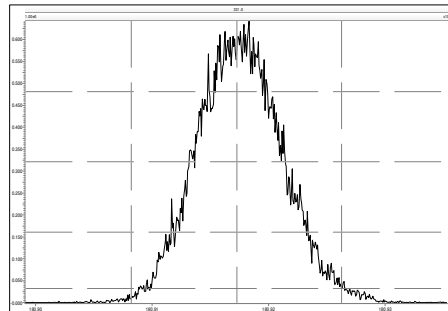
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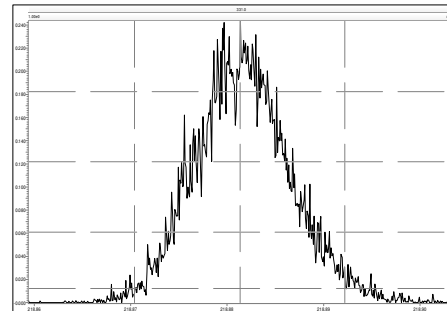
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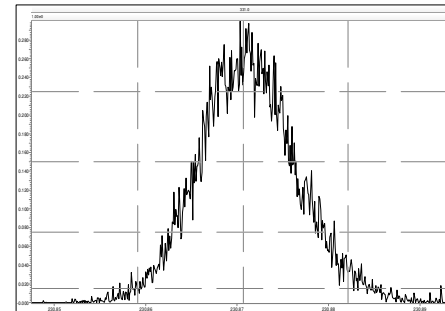
M 180.9888 R 10557



M 218.9856 R 9748

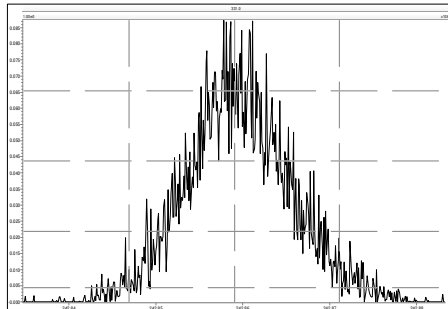


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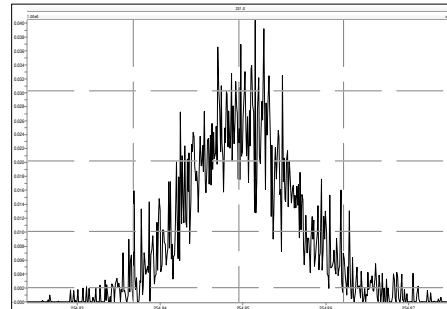


Printed: Friday, September 20, 2024 00:08:25 Eastern Daylight Time

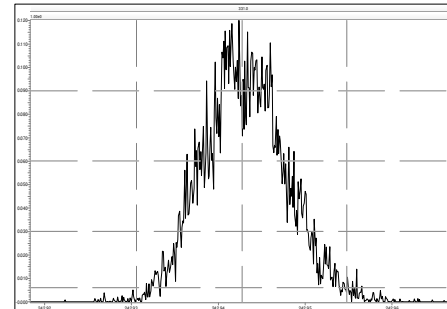
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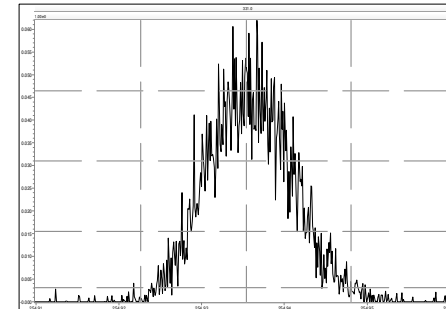
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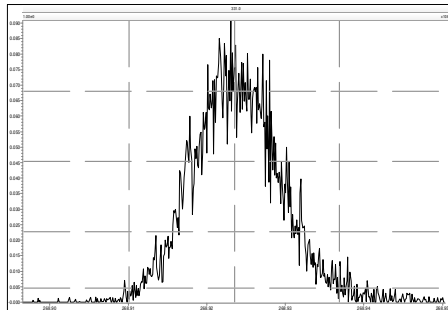
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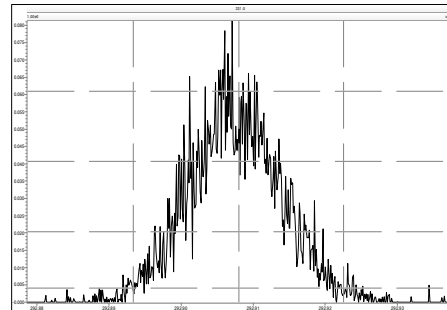
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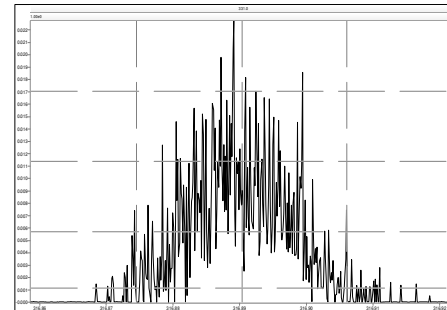
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M 292.9824 R 10809

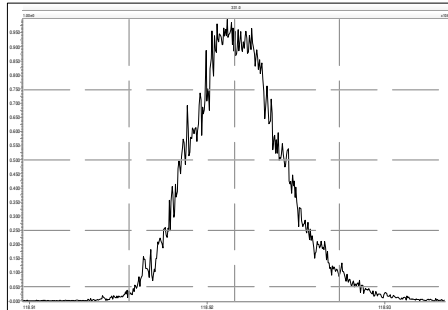


M 316.9824 R 15656

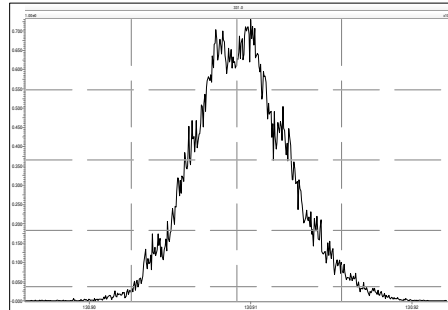


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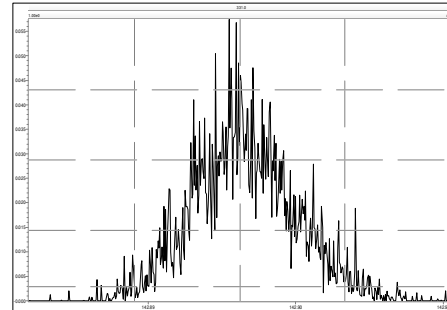
M 118.9920 R 9434



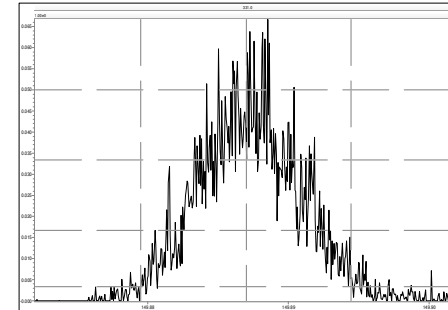
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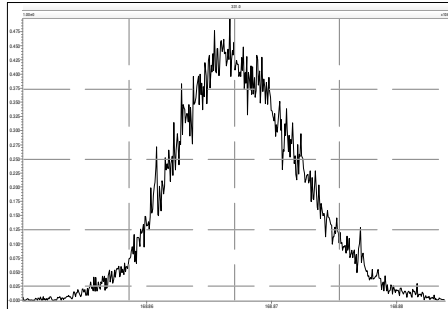
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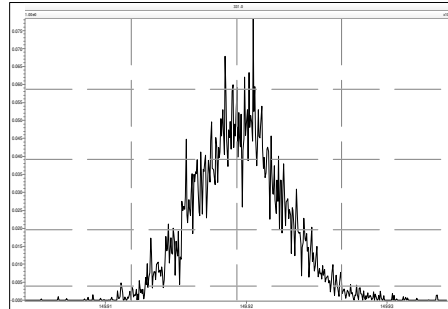
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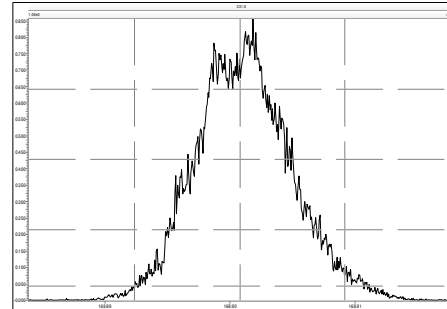
M 168.9888 R 7488 ✓



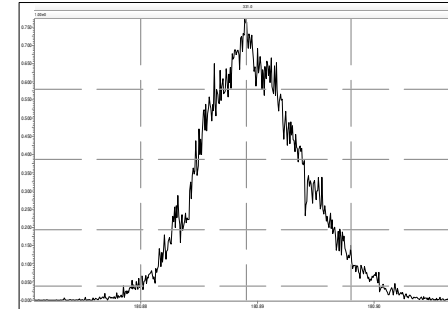
M 149.9904 R 11367



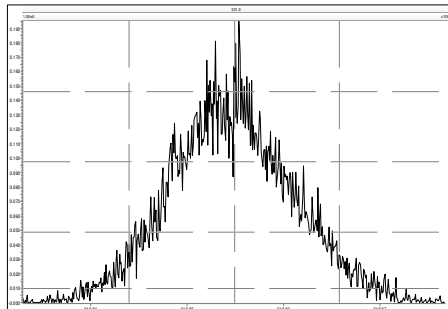
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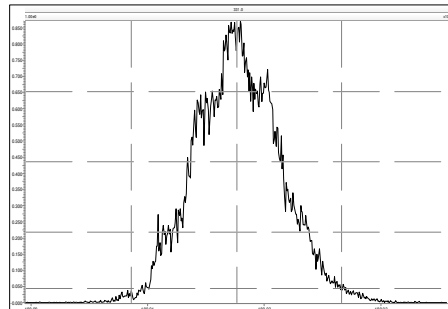
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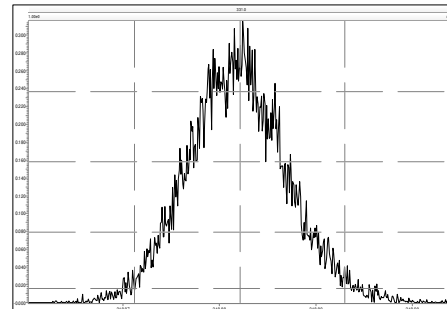
M 218.9856 R 7716 ✓



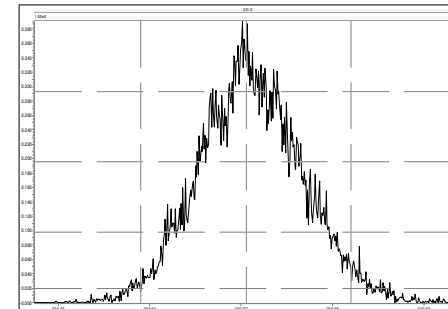
M 180.9888 R 10417



M 218.9856 R 9417

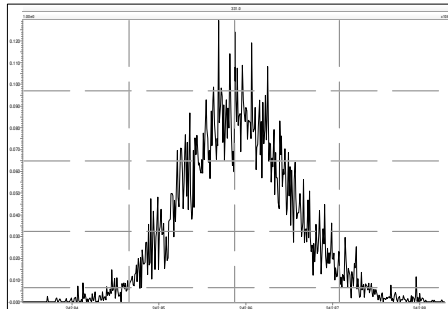


M 230.9856 R 8991

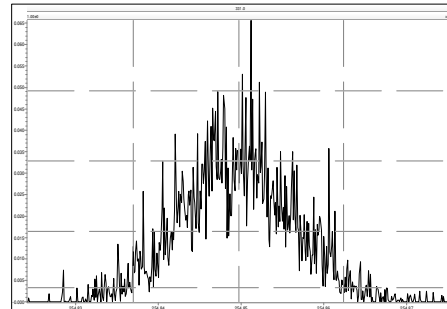


Printed: Friday, September 20, 2024 07:56:29 Eastern Daylight Time

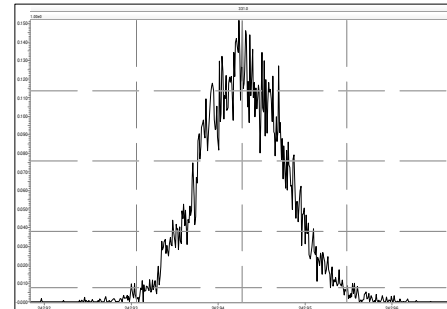
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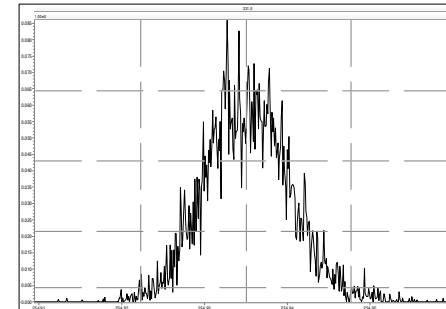
M 254.9856 R 9433



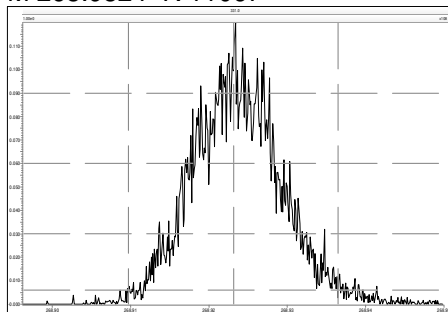
M 242.9856 R 11337



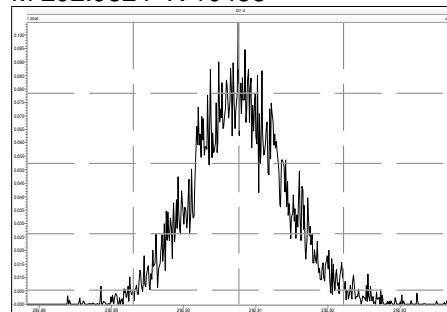
M 254.9856 R 11728



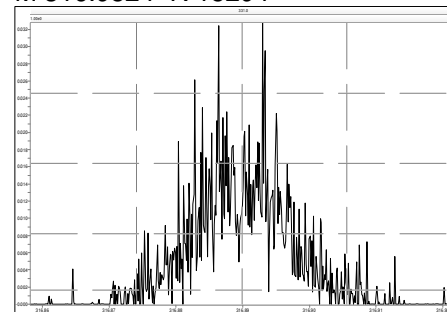
M 268.9824 R 11067



M 292.9824 R 10458



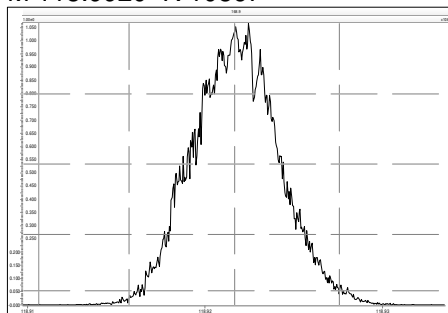
M 316.9824 R 15294



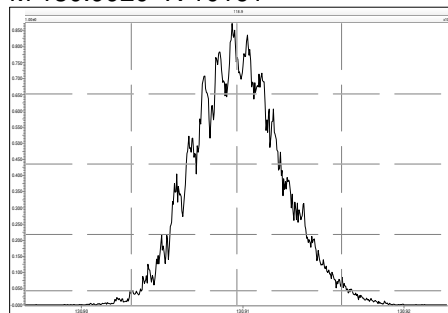
File: Experiment: pah.exp Reference: pah.ref Function: 1 @ 200 (ppm)

Printed: Friday, September 20, 2024 09:46:22 Eastern Daylight Time

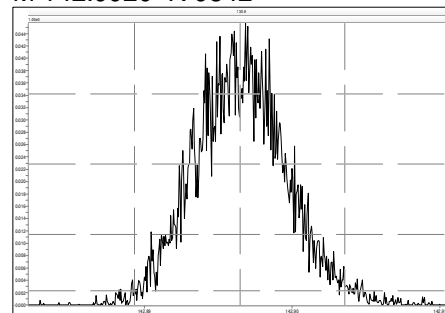
M 118.9920 R 10867



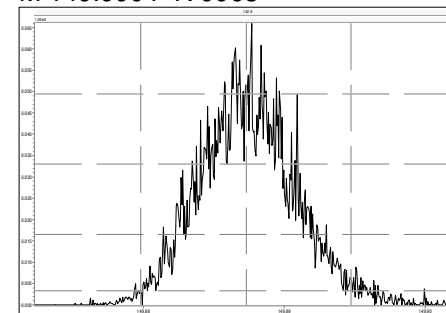
M 130.9920 R 10161



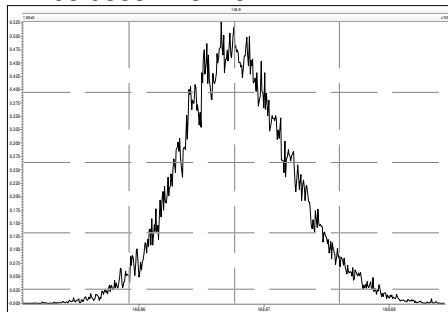
M 142.9920 R 9842



M 149.9904 R 9963



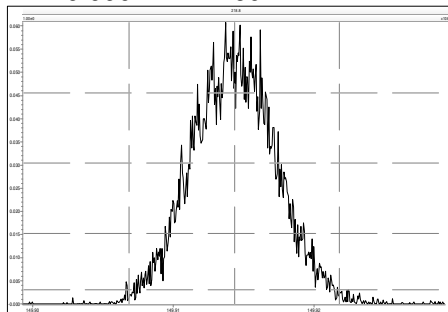
M 168.9888 R 8118



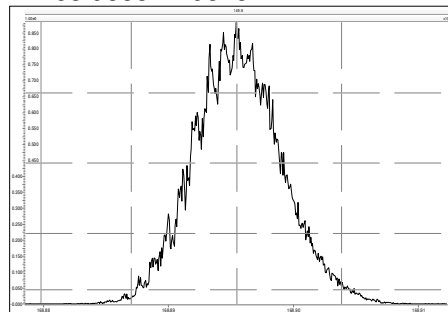
File: Experiment: pah.exp Reference: pah.ref Function: 2 @ 200 (ppm)

Printed: Friday, September 20, 2024 09:46:52 Eastern Daylight Time

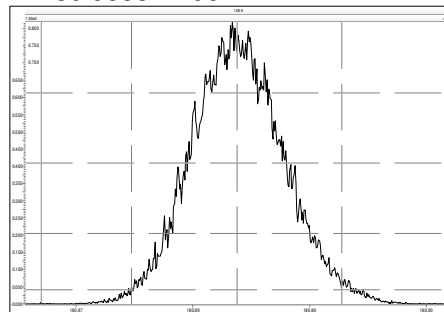
M 149.9904 R 11160



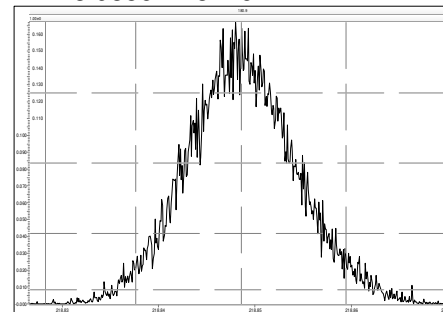
M 168.9888 R 9845



M 180.9888 R 9614



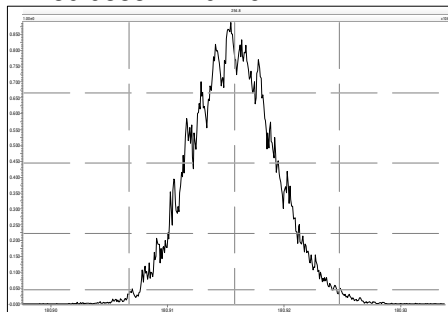
M 218.9856 R 8276



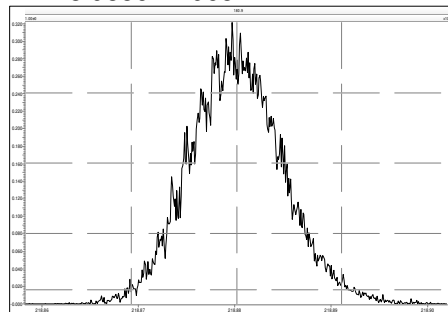
File: Experiment: pah.exp Reference: pah.ref Function: 3 @ 200 (ppm)

Printed: Friday, September 20, 2024 09:47:12 Eastern Daylight Time

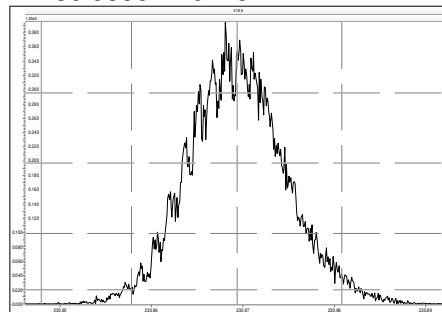
M 180.9888 R 10726



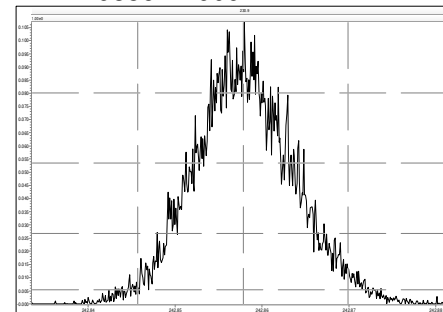
M 218.9856 R 9652



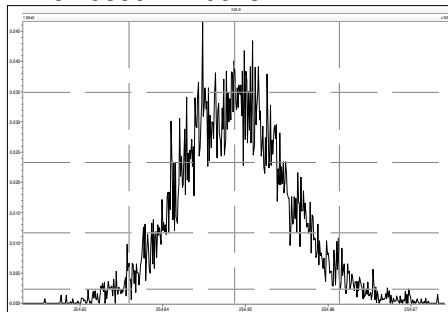
M 230.9856 R 9225



M 242.9856 R 9091



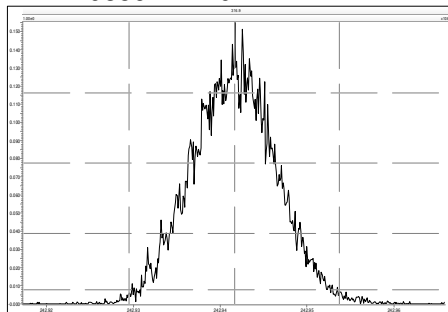
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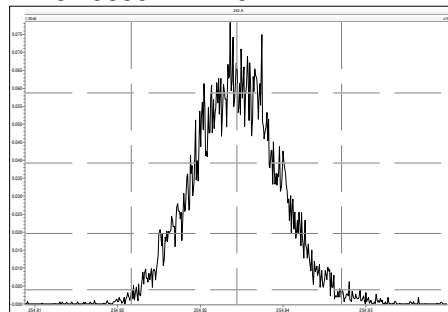
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Printed: Friday, September 20, 2024 09:47:38 Eastern Daylight Time

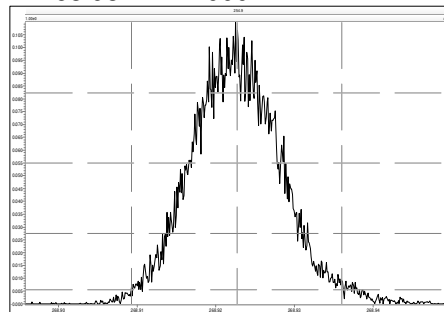
M 242.9856 R 11014



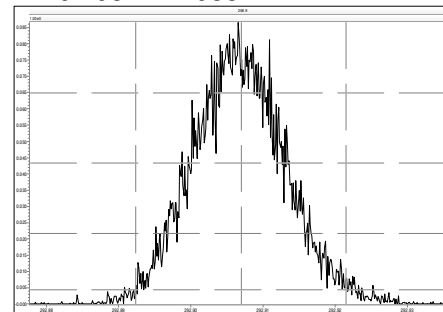
M 254.9856 R 11162



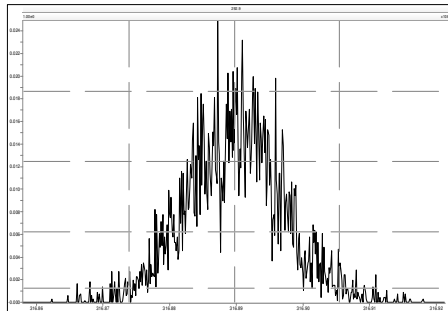
M 268.9824 R 10002



M 292.9824 R 9884



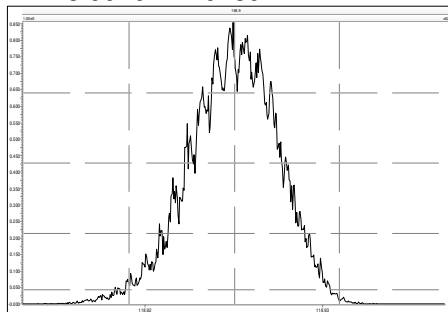
M 316.9824 R 11414



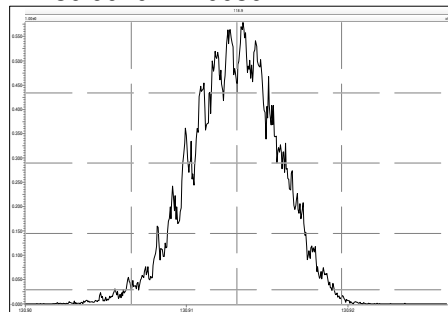
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Printed: Wednesday, September 25, 2024 10:14:01 Eastern Daylight Time

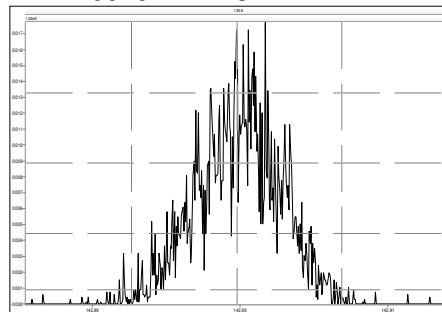
M 118.9920 R 10289



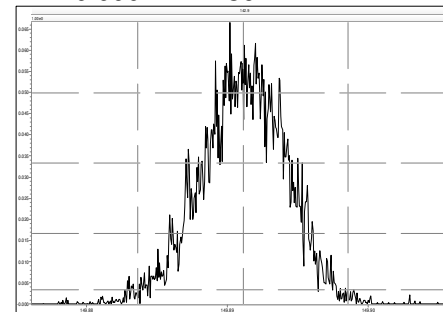
M 130.9920 R 10039



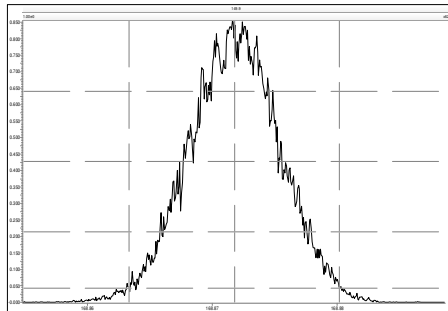
M 142.9920 R 12437



M 149.9904 R 11367



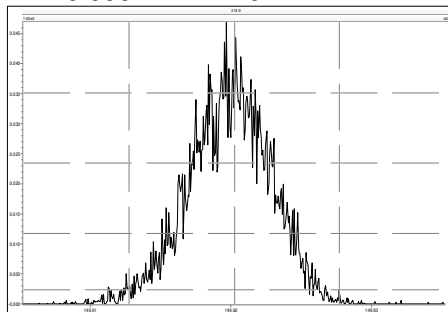
M 168.9888 R 10285



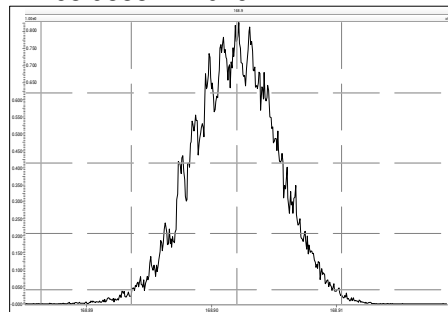
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Printed: Wednesday, September 25, 2024 10:14:25 Eastern Daylight Time

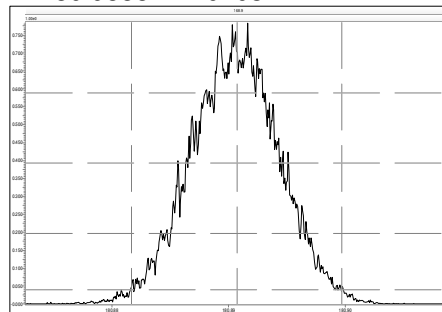
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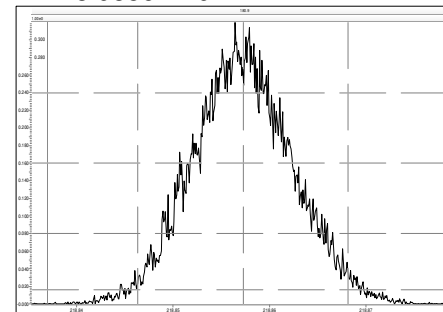
M 168.9888 R 10161



M 180.9888 R 10203



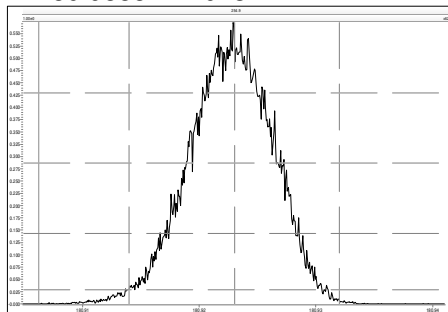
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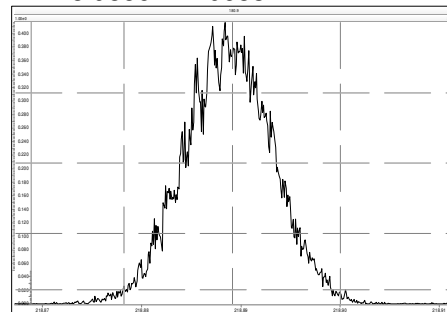
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Printed: Wednesday, September 25, 2024 10:14:42 Eastern Daylight Time

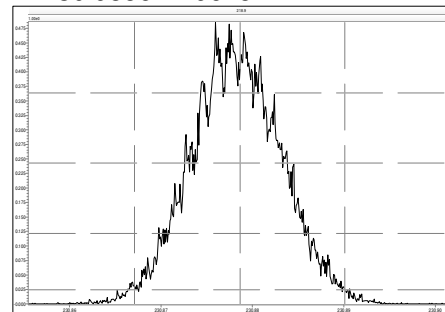
M 180.9888 R 10731



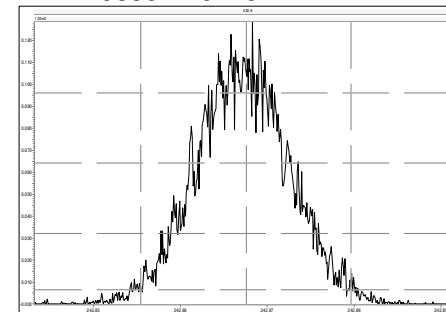
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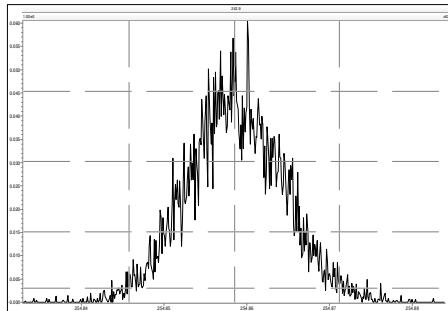
M 230.9856 R 9615



M 242.9856 R 9725



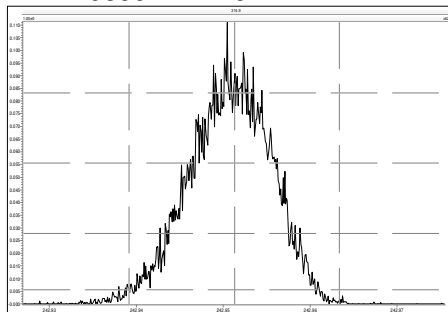
M 254.9856 R 9840



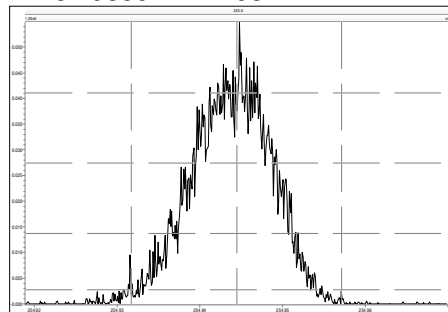
File: Experiment: pah.exp Reference: pah.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, September 25, 2024 10:14:57 Eastern Daylight Time

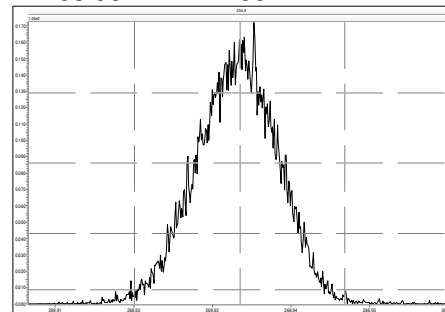
M 242.9856 R 11162



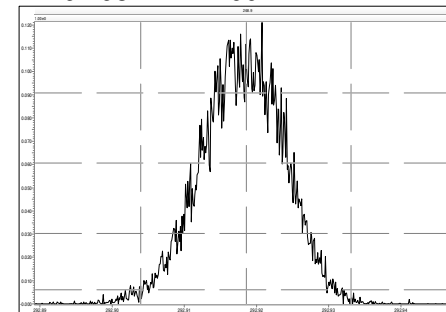
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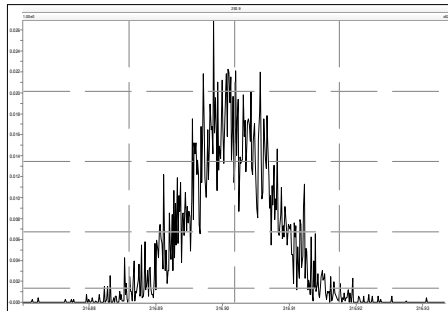
M 268.9824 R 11788



M 292.9824 R 11902

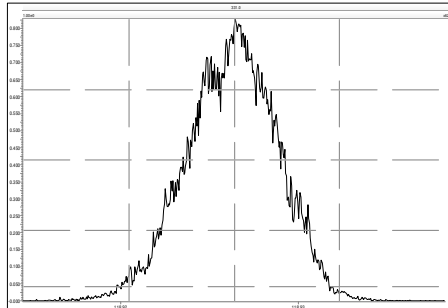


M 316.9824 R 13296

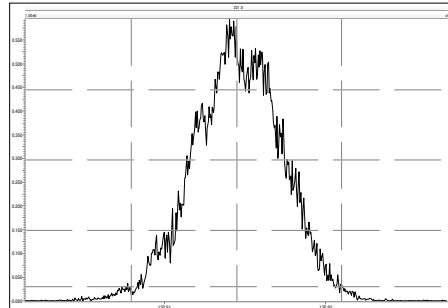


Printed: Wednesday, September 25, 2024 13:31:08 Eastern Daylight Time

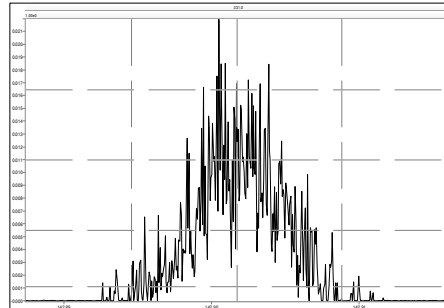
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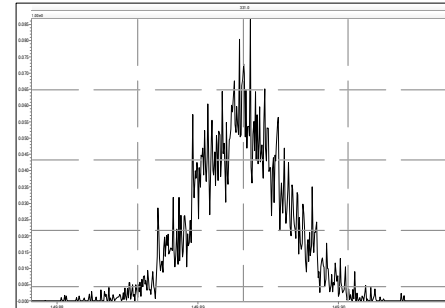
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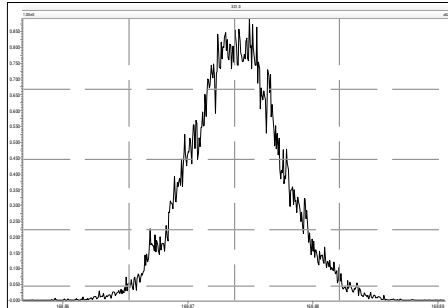
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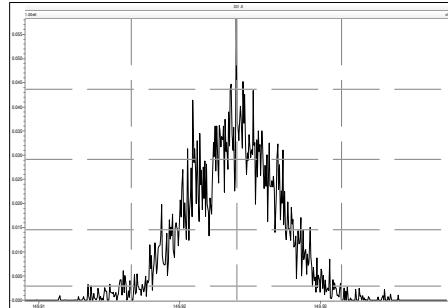
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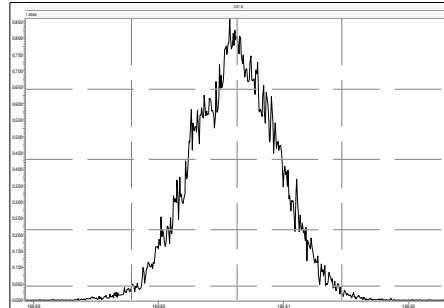
M 168.9888 R 10225



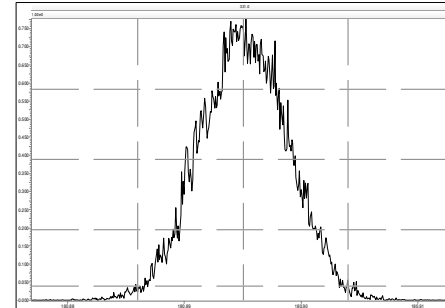
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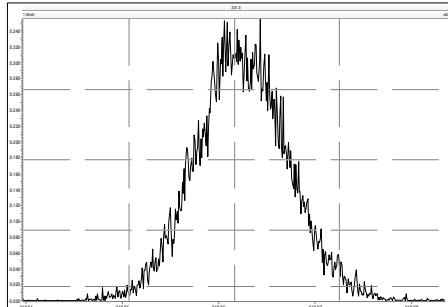
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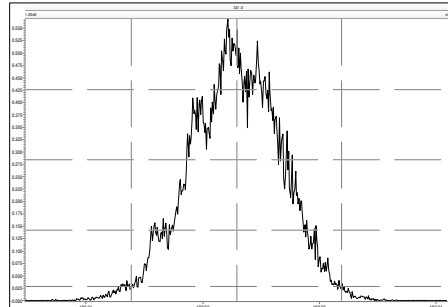
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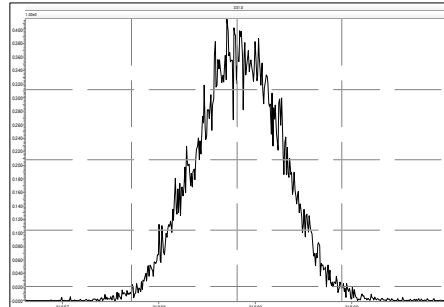
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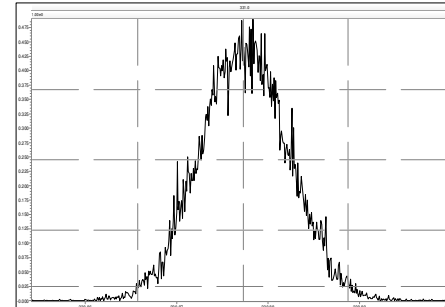
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M 218.9856 R 10730

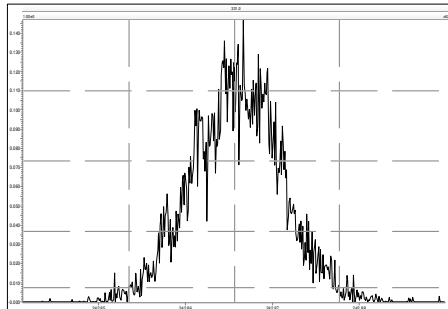


M 230.9856 R 10595

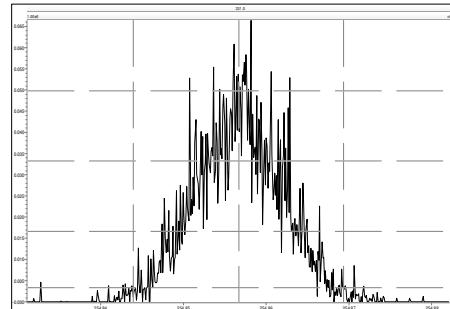


Printed: Wednesday, September 25, 2024 13:31:08 Eastern Daylight Time

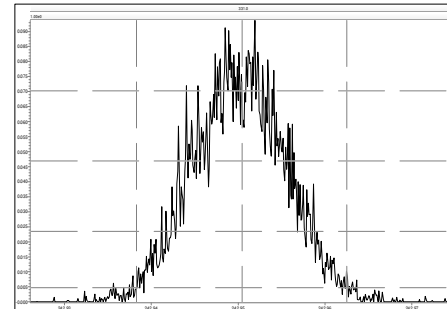
M 242.9856 R 10845



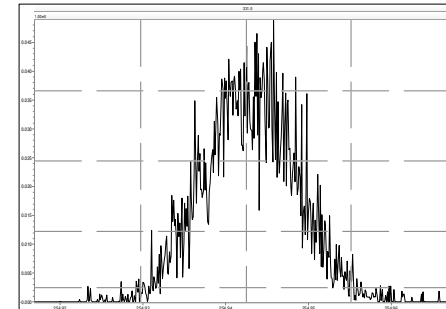
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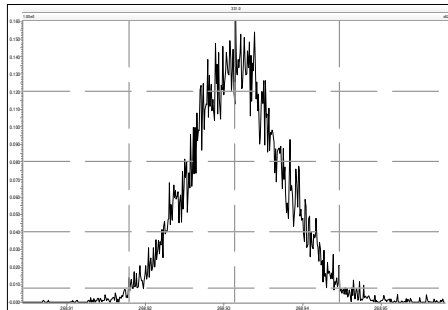
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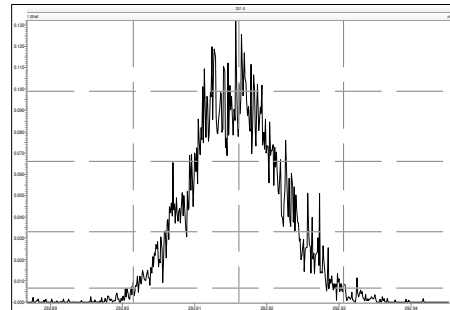
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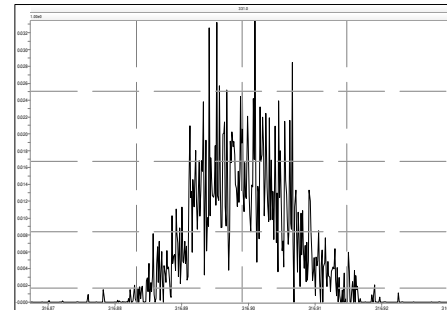
M 268.9824 R 10852



M 292.9824 R 10911



M 316.9824 R 17485



SGS Environmental Services — Run Log

Project: B9770_21382_PCB

Instrument: MM4 (AutoSpec-Ultima)

MS Experiment: pcb-2016

GC Program: pcb90_FI

| # | Datafile | Vial# | Lab ID | Wt/Vol | Client/Sample ID | Analyst(s) | Checkcode | Acq Date | Acq Time |
|----|-----------|-------|--------------------------|--------|------------------|------------|----------------------------|-------------|----------|
| 3 | 240917S03 | 1 | CS3_240917_PCB_SB ✓ | 1.00 | ICAL SIL 27-92-1 | RAB, PSW | 847-896 | 17-Sep-2024 | 13:02:58 |
| 4 | 240917S04 | 3 | CS3_240917_PCB_SC | 1.00 | CPSM SIL 27-92-2 | RAB, PSW | 977-098 | 17-Sep-2024 | 14:05:21 |
| 6 | 240917S08 | 69 | MB1_21382_PCB_SDS | 1.00 | Method Blank | RAB, PSW | 634-357 | 17-Sep-2024 | 17:58:55 |
| 7 | 240917S11 | 70 | B9770_21382_PCB_001 | 1.00 | Test#1 Mill Off | RAB, PSW | 125-978 | 17-Sep-2024 | 21:03:27 |
| 8 | 240917S12 | 71 | B9770_21382_PCB_002 | 1.00 | Test#1 Mill On | RAB, PSW | 519-728 | 17-Sep-2024 | 21:59:22 |
| 9 | 240917S13 | 72 | B9770_21382_PCB_003 | 1.00 | Test#2 Mill On | RAB, PSW | 990-012 188-654 | 17-Sep-2024 | 22:56:56 |
| 10 | 240917S14 | 73 | B9770_21382_PCB_004 | 1.00 | Test#3 Mill On | RAB, PSW | 448-058 | 17-Sep-2024 | 23:54:31 |
| 3 | 240918S03 | 1 | CS3_240918_PCB_SB | 1.00 | ICAL SIL 27-92-1 | RAB, PSW | 856-935 | 18-Sep-2024 | 13:09:58 |
| 4 | 240918S04 | 3 | CS3_240918_PCB_SC | 1.00 | CPSM SIL 27-92-2 | RAB, PSW | 298-715 | 18-Sep-2024 | 14:19:18 |
| 5 | 240918S05 | 2 | SB_240918_PCB_SB | 1.00 | Nonane | RAB, PSW | 310-929 | 18-Sep-2024 | 15:15:12 |
| 6 | 240918S06 | 74 | B9770_21382_PCB_005-RJ | 1.00 | Test#2 Mill Off | RAB, PSW | 783-752 664-149 | 18-Sep-2024 | 16:12:47 |
| 7 | 240918S07 | 75 | B9770_21382_PCB_006-RJ | 1.00 | Test#4 Mill On | RAB, PSW | 924-995 130-538 | 18-Sep-2024 | 17:10:21 |
| 8 | 240918S08 | 76 | B9770_21382_PCB_007-RJ | 1.00 | Test#5 Mill On | RAB, PSW | 934-187 | 18-Sep-2024 | 18:07:56 |
| 9 | 240918S09 | 77 | B9770_21382_PCB_008-RJ ✓ | 1.00 | Field Blank | RAB, PSW | 861-232 | 18-Sep-2024 | 19:05:31 |

CL 27Sep24

MM4-PCB_03SEP2024

PCB-81,PCB-126,PCB-189,PCB-188 & PCB-202 - % RSD did not meet SOP or method requirements

PCB-206 - M+4 does not meet SOP or S/N requirements in CS0

REVIEWED

paul_walton , 9/20/2024, 11:10:38 AM

ES PCB-4,ES PCB-19 ES PCB-104,ES -PCB-188 & AS PCB-32 did not meet SOP or method % RSD criteria in calibration verifications

Samples and Method Blank are quantitated against the ICAL RRFs

CL 27Sep24

REVIEWED

Carla_Lyon , 9/27/2024, 3:45:04 PM

PCB QC Summary

SGS North America

Printed: 27 Sep 2024 10:06

Lab ID: CS3_240917_PCB_SB

Acquired: 17-SEP-2024 13:02

ICAL: MM4-PCB_03SEP2024

Datafile: 240917S03

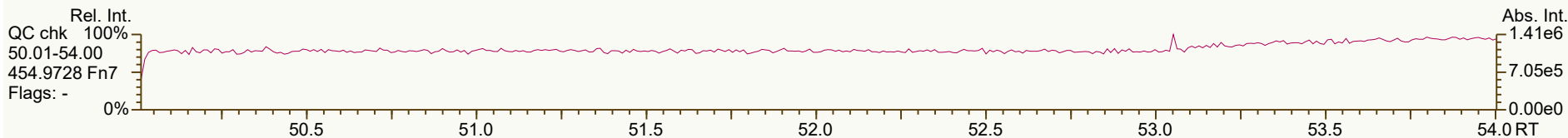
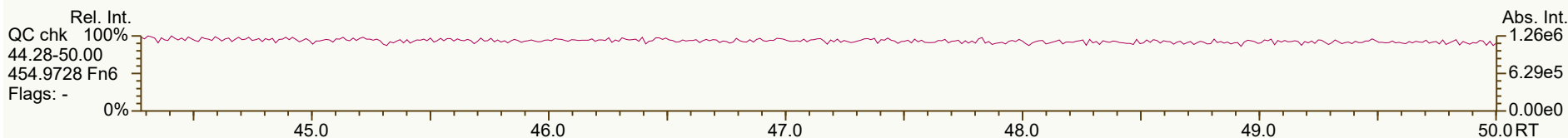
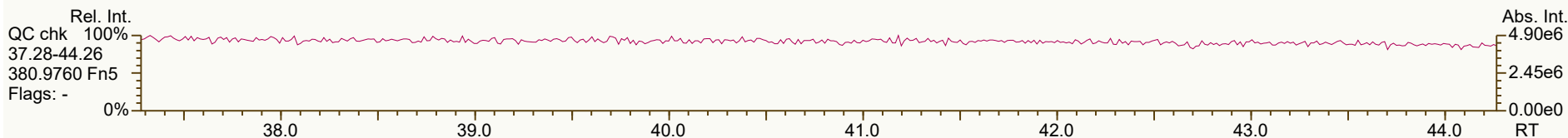
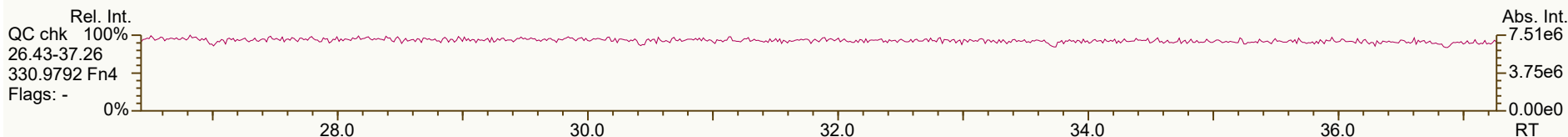
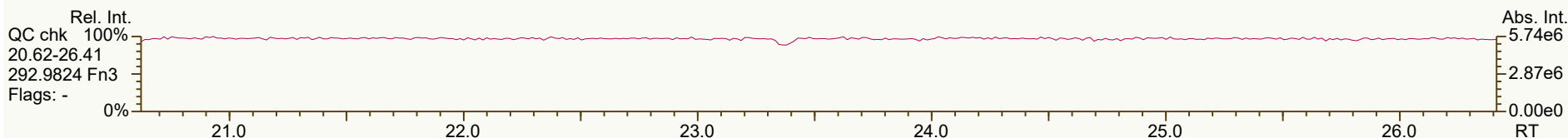
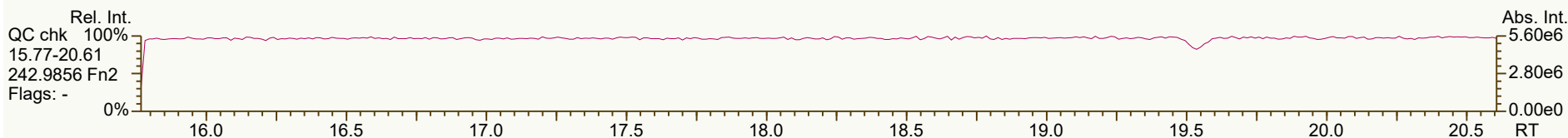
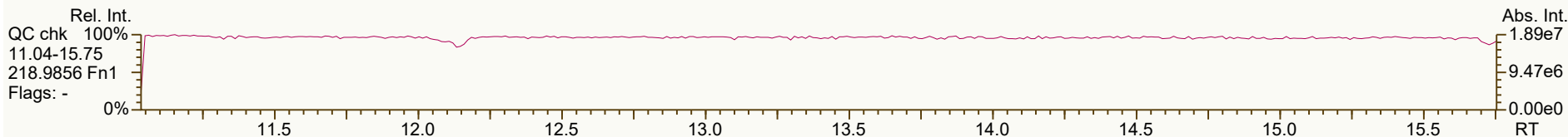
| Name | RT | Response | RA | ICAL | RRF | Deviation |
|-------------------------|-------|----------|--------|------|------|-----------|
| PCB-77 33'44'-TeCB | 32.10 | 1.84E+07 | 0.80 Y | 1.45 | 1.23 | -15.5% |
| PCB-81 344'5'-TeCB | 31.62 | 1.88E+07 | 0.79 Y | 1.46 | 1.20 | -17.5% |
| PCB-105 233'44'-PeCB | 35.06 | 1.52E+07 | 0.62 Y | 1.18 | 1.03 | -13.2% |
| PCB-114 2344'5'-PeCB | 34.51 | 1.51E+07 | 0.63 Y | 1.14 | 1.00 | -13.0% |
| PCB-118 23'44'5'-PeCB | 34.04 | 1.56E+07 | 0.63 Y | 1.18 | 1.01 | -14.3% |
| PCB-123 23'44'5'-PeCB | 33.77 | 1.49E+07 | 0.63 Y | 1.19 | 1.02 | -14.3% |
| PCB-126 33'44'5'-PeCB | 37.66 | 1.56E+07 | 0.63 Y | 1.35 | 1.12 | -17.3% |
| PCB-156/157 ...-HxCB | 40.19 | 2.75E+07 | 1.23 Y | 1.23 | 1.01 | -17.7% |
| PCB-167 23'44'55'-HxCB | 39.20 | 1.43E+07 | 1.20 Y | 1.22 | 1.01 | -16.8% |
| PCB-169 33'44'55'-HxCB | 42.90 | 1.35E+07 | 1.24 Y | 1.23 | 1.02 | -17.5% |
| PCB-189 233'44'55'-HpCB | 45.00 | 1.34E+07 | 1.05 Y | 1.31 | 1.14 | -12.8% |
| PCB-209 DeCB | 50.67 | 1.02E+07 | 1.15 Y | 1.08 | 0.97 | -9.4% |
| ES PCB-1 | 11.47 | 3.93E+07 | 3.11 Y | 1.09 | 1.08 | -0.6% |
| ES PCB-3 | 13.69 | 3.80E+07 | 3.10 Y | 1.06 | 1.04 | -1.6% |
| ES PCB-4 | 13.94 | 2.73E+07 | 1.54 Y | 0.52 | 0.75 | 45.0% |
| ES PCB-15 | 19.54 | 3.87E+07 | 1.52 Y | 1.11 | 1.06 | -4.5% |
| ES PCB-19 | 16.96 | 2.64E+07 | 1.02 Y | 0.54 | 0.73 | 34.6% |
| ES PCB-37 | 25.80 | 3.25E+07 | 1.02 Y | 1.71 | 1.23 | -28.1% |
| ES PCB-54 | 19.83 | 2.54E+07 | 0.83 Y | 0.78 | 0.96 | 23.6% |
| ES PCB-77 | 32.08 | 2.99E+07 | 0.72 Y | 1.53 | 1.13 | -25.9% |
| ES PCB-81 | 31.60 | 3.13E+07 | 0.71 Y | 1.55 | 1.18 | -23.9% |
| ES PCB-104 | 24.71 | 2.34E+07 | 1.47 Y | 0.74 | 0.97 | 30.4% |
| ES PCB-105 | 35.04 | 2.96E+07 | 1.46 Y | 1.31 | 1.22 | -6.4% |
| ES PCB-114 | 34.48 | 3.03E+07 | 1.53 Y | 1.34 | 1.26 | -6.6% |
| ES PCB-118 | 34.02 | 3.08E+07 | 1.46 Y | 1.35 | 1.27 | -5.8% |
| ES PCB-123 | 33.74 | 2.91E+07 | 1.47 Y | 1.29 | 1.21 | -6.6% |
| ES PCB-126 | 37.64 | 2.79E+07 | 1.41 Y | 1.59 | 1.15 | -27.7% |
| ES PCB-153 | 35.59 | 2.41E+07 | 1.15 Y | 1.10 | 1.14 | 3.4% |
| ES PCB-155 | 29.59 | 2.91E+07 | 1.16 Y | 1.38 | 1.37 | -0.1% |
| ES PCB-156/157 | 40.17 | 5.44E+07 | 1.13 Y | 1.62 | 1.28 | -20.9% |
| ES PCB-167 | 39.18 | 2.82E+07 | 1.09 Y | 1.70 | 1.33 | -21.9% |
| ES PCB-169 | 42.88 | 2.64E+07 | 1.12 Y | 1.55 | 1.25 | -19.8% |
| ES PCB-170 | 42.38 | 2.13E+07 | 0.99 Y | 1.06 | 1.11 | 5.2% |
| ES PCB-180 | 41.31 | 2.49E+07 | 0.99 Y | 1.30 | 1.30 | -0.2% |
| ES PCB-188 | 34.45 | 1.91E+07 | 1.00 Y | 0.63 | 0.90 | 43.9% |
| ES PCB-189 | 44.98 | 2.36E+07 | 0.93 Y | 1.71 | 1.23 | -28.1% |
| ES PCB-202 | 38.97 | 2.36E+07 | 0.85 Y | 0.96 | 1.11 | 16.3% |
| ES PCB-205 | 47.18 | 2.44E+07 | 0.86 Y | 1.23 | 1.27 | 3.2% |
| ES PCB-206 | 48.87 | 1.95E+07 | 0.79 Y | 0.84 | 1.02 | 20.8% |
| ES PCB-208 | 44.57 | 2.65E+07 | 0.77 Y | 1.25 | 1.38 | 10.3% |
| ES PCB-209 | 50.65 | 2.09E+07 | 1.14 Y | 0.94 | 1.09 | 15.8% |

| PCB QC Summary | | SGS North America | | | Printed: 27 Sep 2024 10:06 | | |
|---------------------------------------|-------------------|---------------------|-------------------|-------------------------|----------------------------|-------------------|--|
| Lab ID: | CS3_240917_PCB_SB | | | | | | |
| Acquired: | 17-SEP-2024 13:02 | | | ICAL: MM4-PCB_03SEP2024 | | | |
| Datafile: | 240917S03 | | | | | | |
| Name | RT | Response | RA | ICAL | RRF | Deviation | |
| SS PCB-28 | 22.26 | 3.47E+07 | 1.01 Y | 1.01 | 1.07 | 5.3% | |
| SS PCB-111 | 32.06 | 3.01E+07 | 1.50 Y | 0.97 | 1.03 | 6.6% | |
| SS PCB-178 | 37.02 | 1.36E+07 | 1.02 Y | 0.74 | 0.71 | -4.1% | |
| | | | | | | | |
| CS PCB-28 | 22.26 | 3.47E+07 | 1.01 Y | 1.73 | 1.31 | -24.3% | |
| CS PCB-111 | 32.06 | 3.01E+07 | 1.50 Y | 1.25 | 1.24 | -0.5% | |
| CS PCB-178 | 37.02 | 1.36E+07 | 1.02 Y | 0.46 | 0.64 | 38.2% | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| JS PCB-9 | 15.87 | 3.64E+07 | 1.53 Y | | | | |
| JS PCB-52 | 23.87 | 2.65E+07 | 0.72 Y | | | | |
| JS PCB-101 | 29.79 | 2.42E+07 | 1.53 Y | | | | |
| JS PCB-138 | 36.66 | 2.12E+07 | 1.12 Y | | | | |
| JS PCB-194 | 46.75 | 1.92E+07 | 0.88 Y | | | | |
| | | | | | | | |
| | | | | | | | |
| PCB-1 2-MoCB | 11.48 | 2.40E+07 | 3.02 Y | 1.47 | 1.22 | -17.1% | |
| PCB-3 4-MoCB | 13.71 | 2.28E+07 | 2.92 Y | 1.45 | 1.20 | -17.3% | |
| PCB-4 22'-DiCB | 13.96 | 1.53E+07 | 1.53 Y | 1.30 | 1.12 | -13.8% | |
| PCB-15 44'-DiCB | 19.56 | 2.06E+07 | 1.50 Y | 1.31 | 1.07 | -18.6% | |
| PCB-19 22'6'-TrCB | 16.98 | 1.35E+07 | 1.07 Y | 1.16 | 1.02 | -12.5% | |
| PCB-37 344'-TrCB | 25.82 | 2.03E+07 | 1.06 Y | 1.43 | 1.25 | -12.8% | |
| PCB-54 22'66'-TeCB | 19.84 | 1.66E+07 | 0.80 Y | 1.52 | 1.31 | -14.1% | |
| PCB-104 22'466'-PeCB | 24.73 | 1.49E+07 | 0.61 Y | 1.46 | 1.27 | -13.1% | |
| PCB-155 22'44'66'-HxCB | 29.61 | 1.79E+07 | 1.27 Y | 1.36 | 1.23 | -9.5% | |
| PCB-188 22'34'566'-HpCB | 34.47 | 1.27E+07 | 1.01 Y | 1.55 | 1.33 | -14.2% | |
| PCB-202 22'33'55'66'-OcCB | 39.00 | 1.36E+07 | 0.87 Y | 1.32 | 1.15 | -12.9% | |
| PCB-205 233'44'55'6-OcCB | 47.20 | 1.12E+07 | 0.91 Y | 1.12 | 0.92 | -17.7% | |
| PCB-208 22'33'455'66'-NoCB | 44.59 | 1.34E+07 | 0.80 Y | 1.11 | 1.01 | -8.9% | |
| PCB-206 22'33'44'55'6-NoCB | 48.90 | 9.44E+06 | 0.80 Y | 1.04 | 0.97 | -6.6% | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| AS PCB-32 | 19.96 | 3.98E+07 | 1.04 Y | 0.77 | 1.09 | 42.2% | |
| AS PCB-97 | 30.74 | 2.07E+07 | 1.47 Y | 0.86 | 0.86 | -0.9% | |
| AS PCB-159 NR - CL 27Sep24 | 38.53 | 2.63E+07 | 1.09 Y | 1.57 | 1.24 | -21.2% | |

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\CS3_240917_PCB_SB.utp_res, saved 20-Sep-2024 11:00 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q scc: 847-896

Peak annotation: Areas, Centroids
PKD: n/a Printed: 20-Sep-2024 11:00 Page 1 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



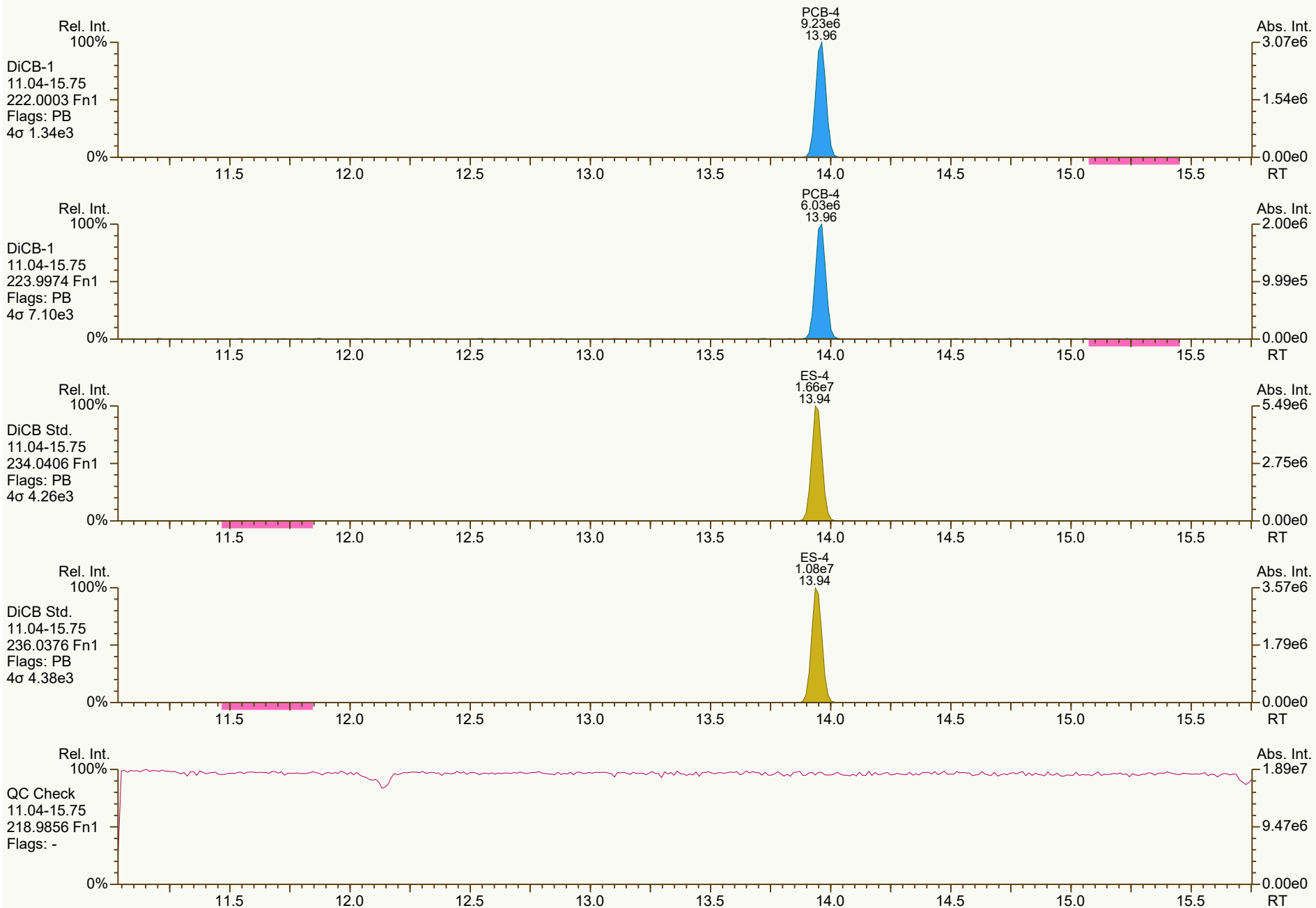
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6091, 1869 scc: 847-896

Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 14:03 Printed: 20-Sep-2024 11:00 Page 2 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\CS3_240917_PCB_SB.utp_res, saved 20-Sep-2024 11:00 (PSW)
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Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 14:03 Printed: 20-Sep-2024 11:00 Page 3 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



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Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 14:03 Printed: 20-Sep-2024 11:00 Page 4 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\CS3_240917_PCB_SB.utp_res, saved 20-Sep-2024 11:00 (PSW)
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Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 14:03 Printed: 20-Sep-2024 11:00 Page 5 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\CS3_240917_PCB_SB.utp_res, saved 20-Sep-2024 11:00 (PSW)
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Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 14:03 Printed: 20-Sep-2024 11:00 Page 6 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

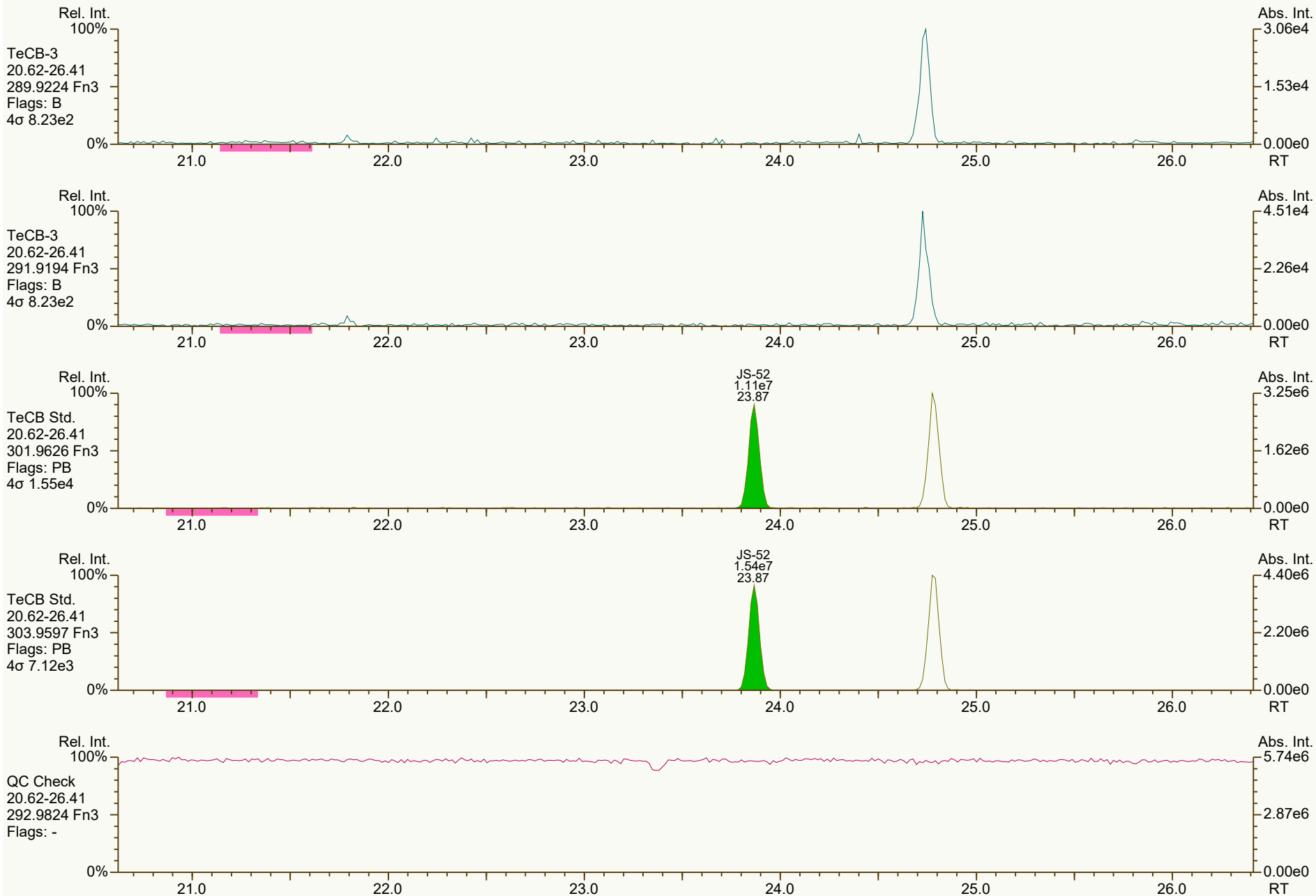
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SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



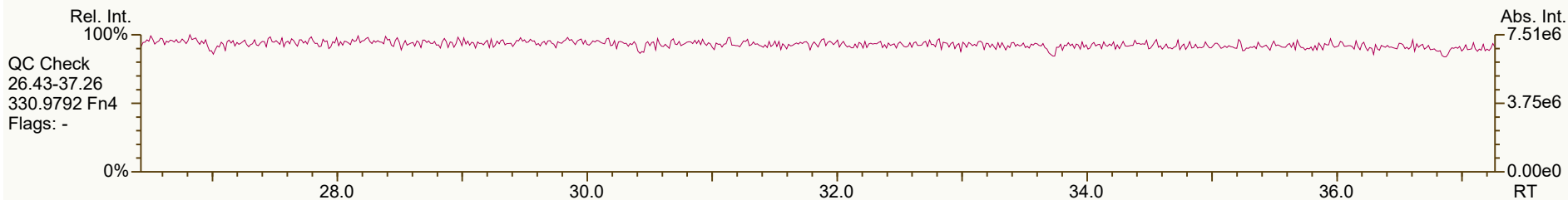
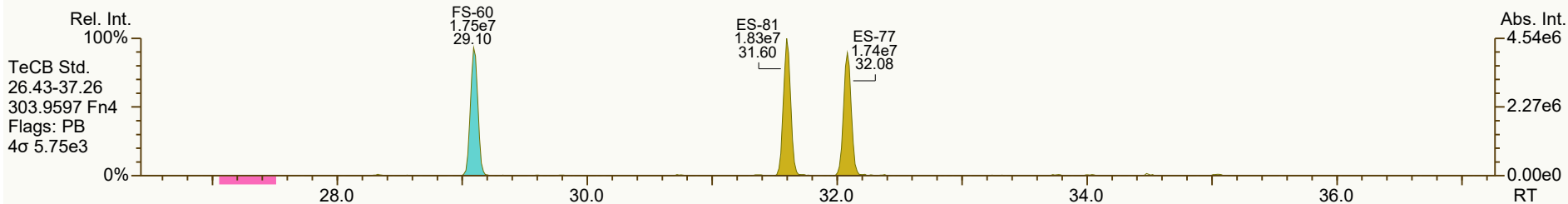
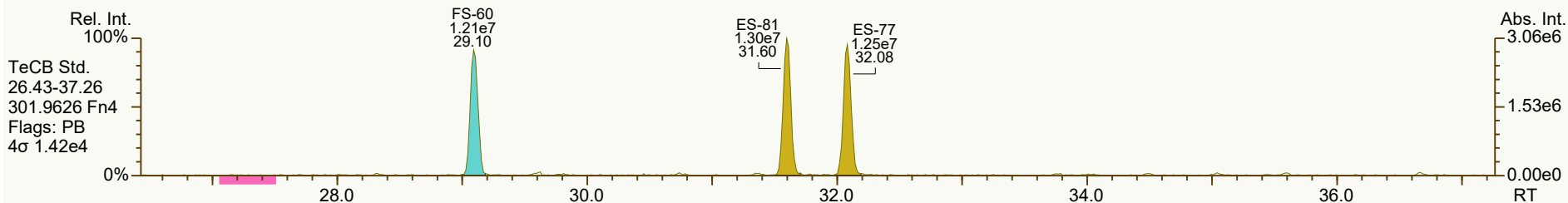
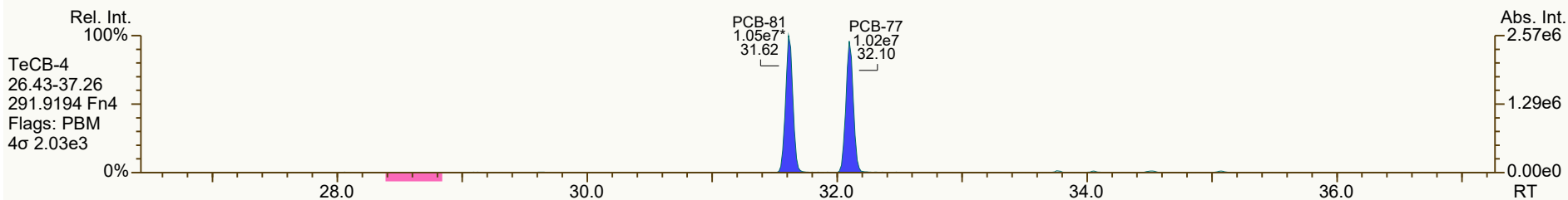
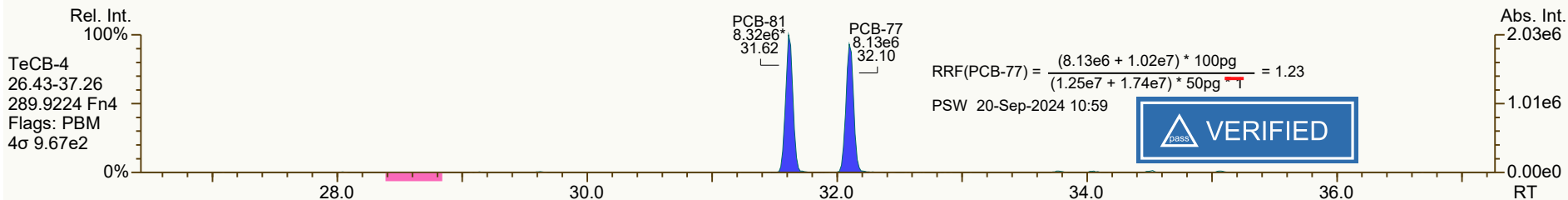
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4739, 0467 scc: 847-896

Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 14:03 Printed: 20-Sep-2024 11:00 Page 8 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



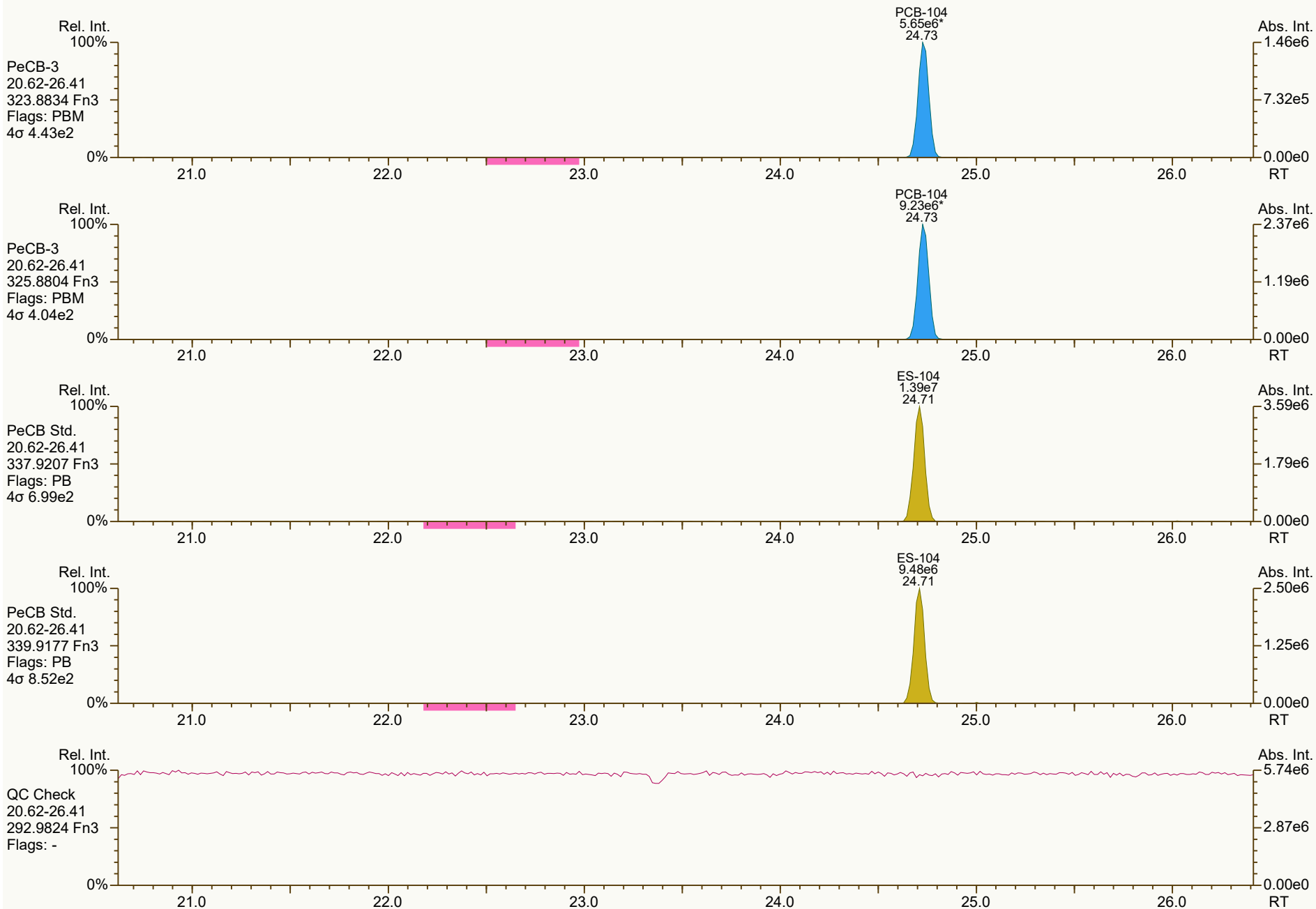
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6127, 4923 scc: 847-896

Peak annotation: Areas, Centroids
Revised: 17-Sep-2024 15:08 (PSW) Printed: 20-Sep-2024 11:00 Page 9 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



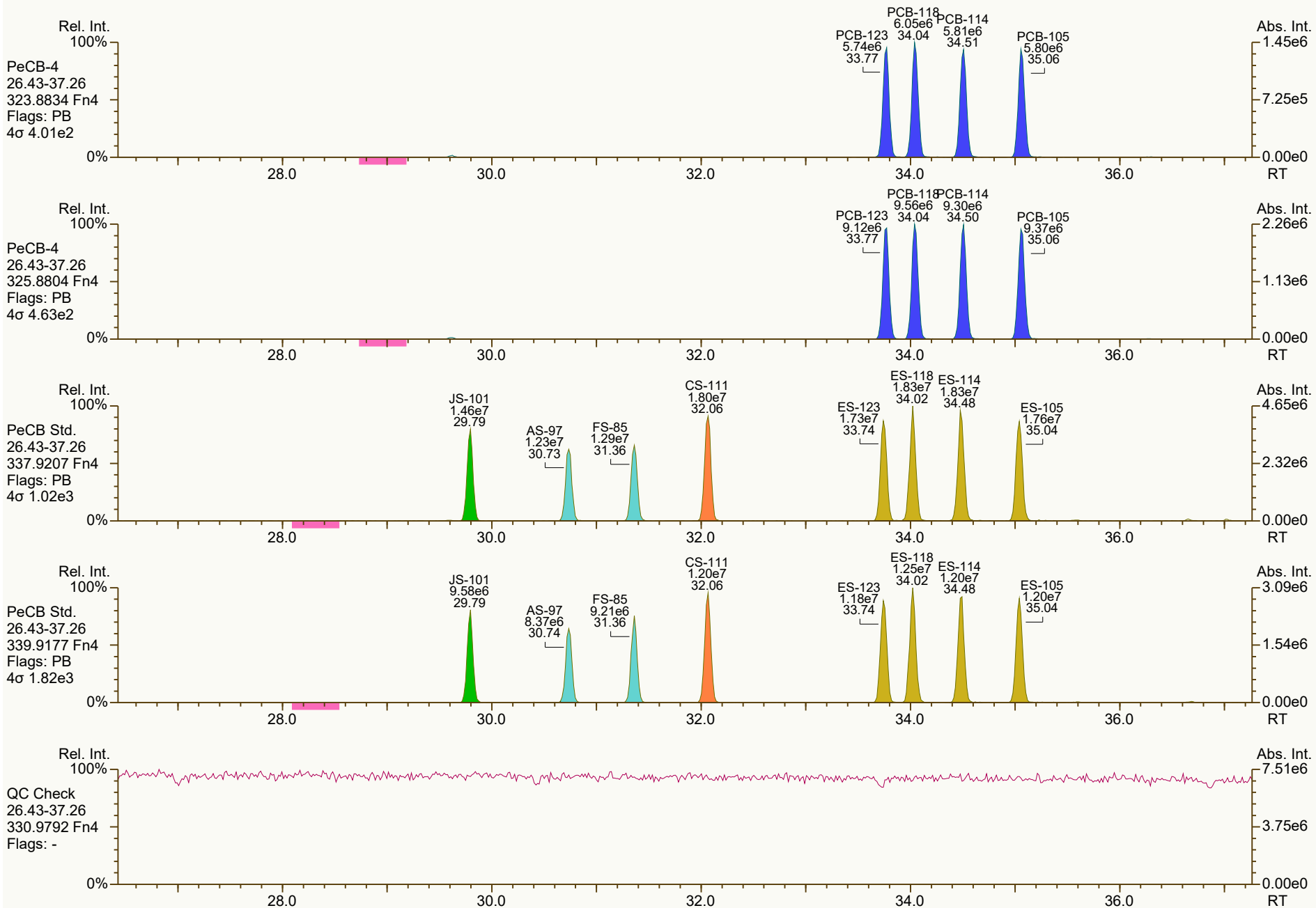
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 1842, 9144 scc: 847-896

Peak annotation: Areas, Centroids
Revised: 17-Sep-2024 15:09 (PSW) Printed: 20-Sep-2024 11:00 Page 10 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



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Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 14:03 Printed: 20-Sep-2024 11:00 Page 11 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
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Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 14:03 Printed: 20-Sep-2024 11:00 Page 12 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

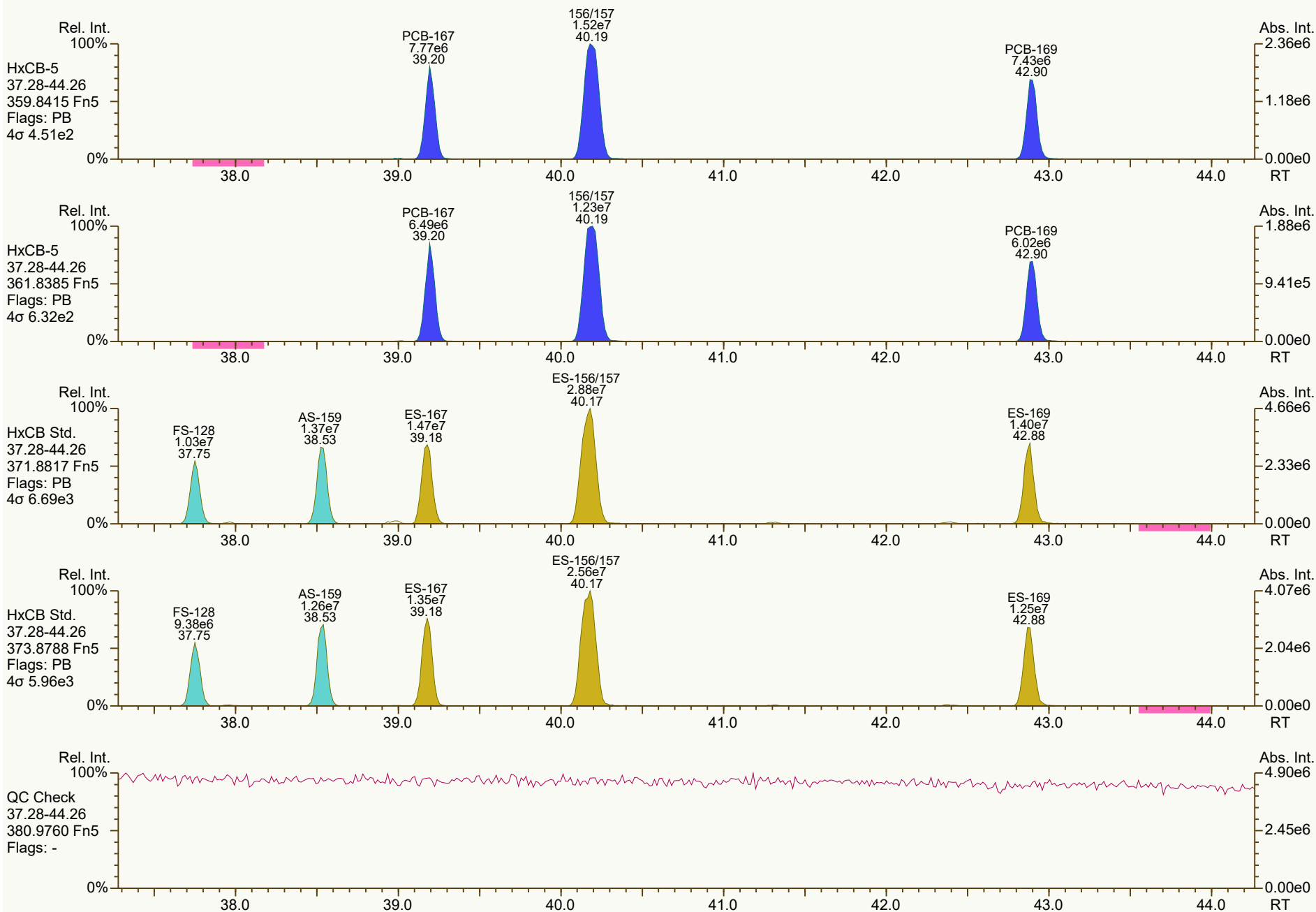
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SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



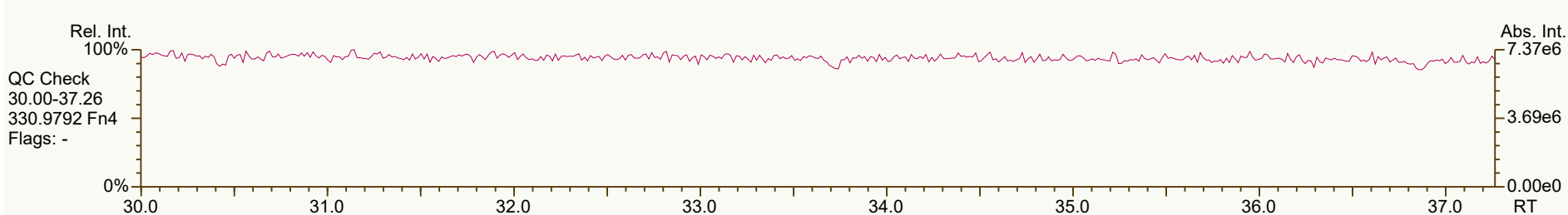
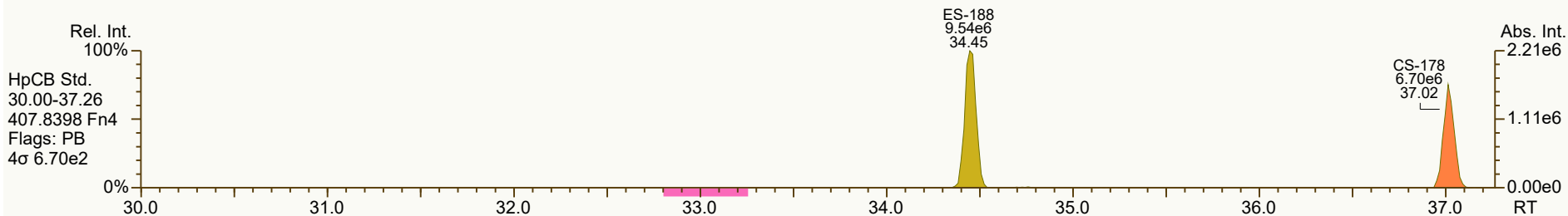
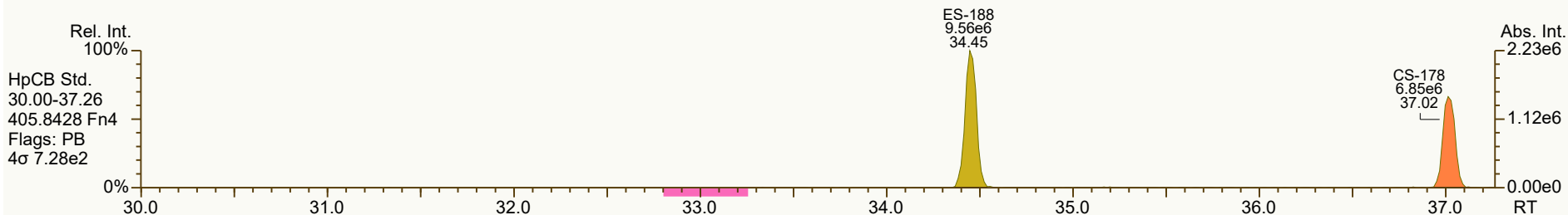
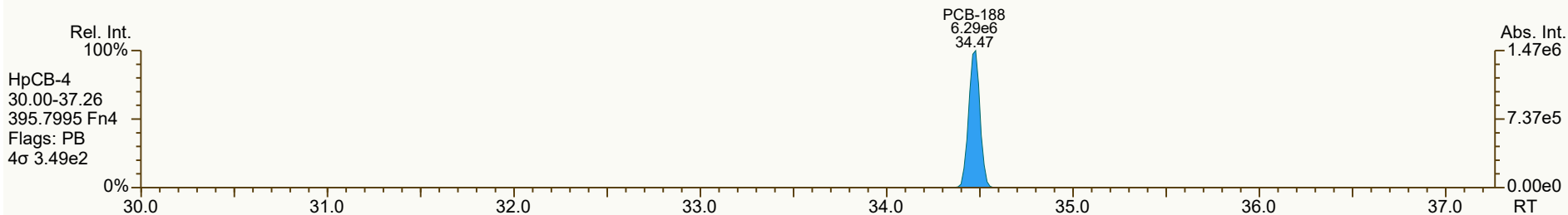
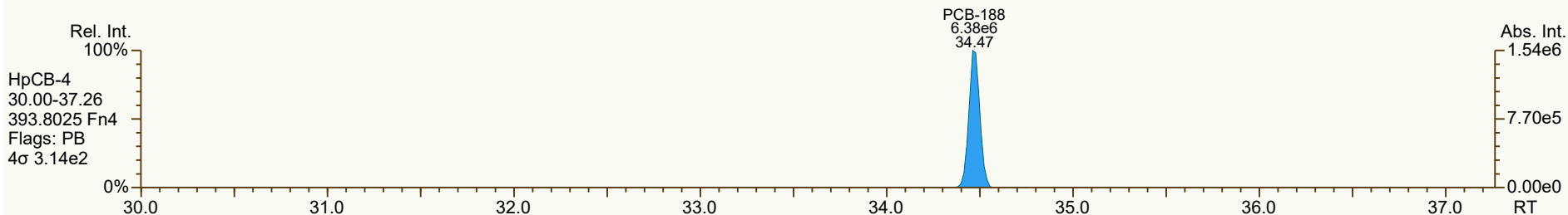
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 0392, 8284 scc: 847-896

Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 14:03 Printed: 20-Sep-2024 11:00 Page 14 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

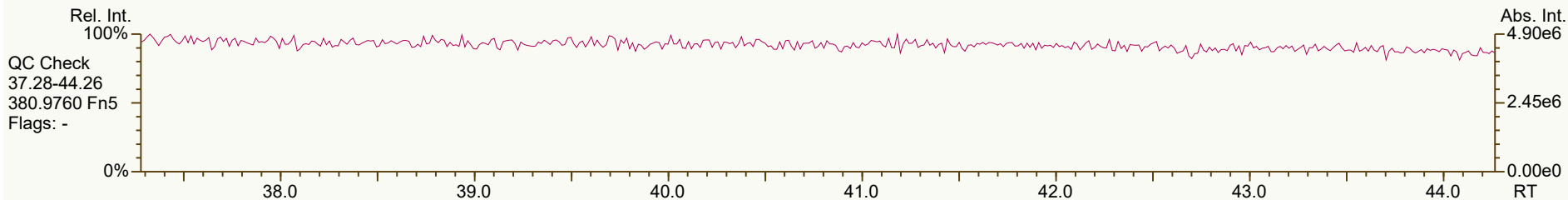
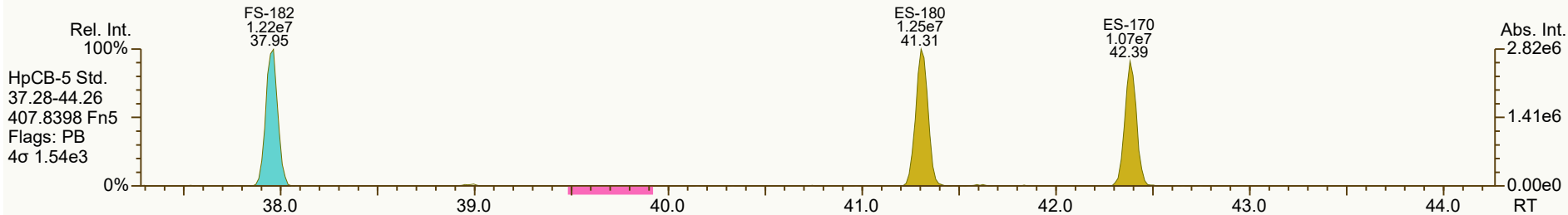
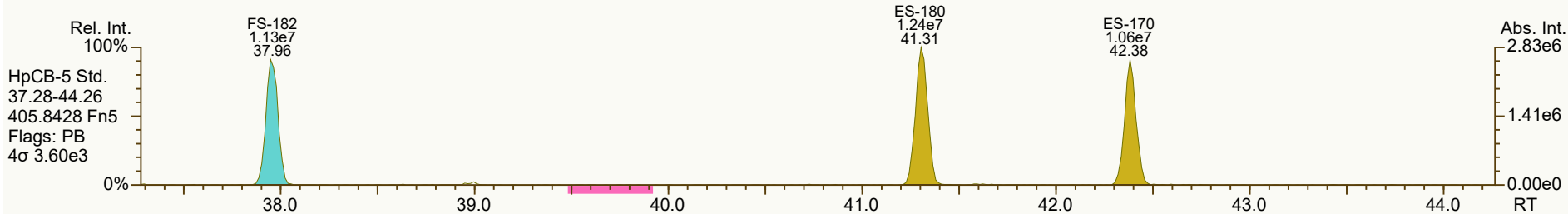
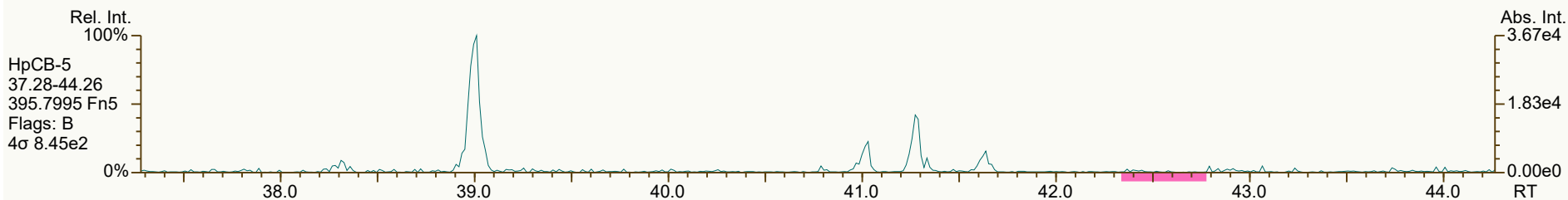
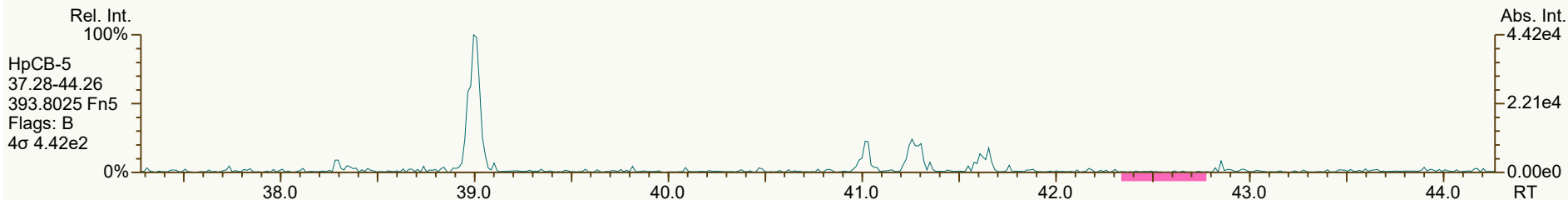
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SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

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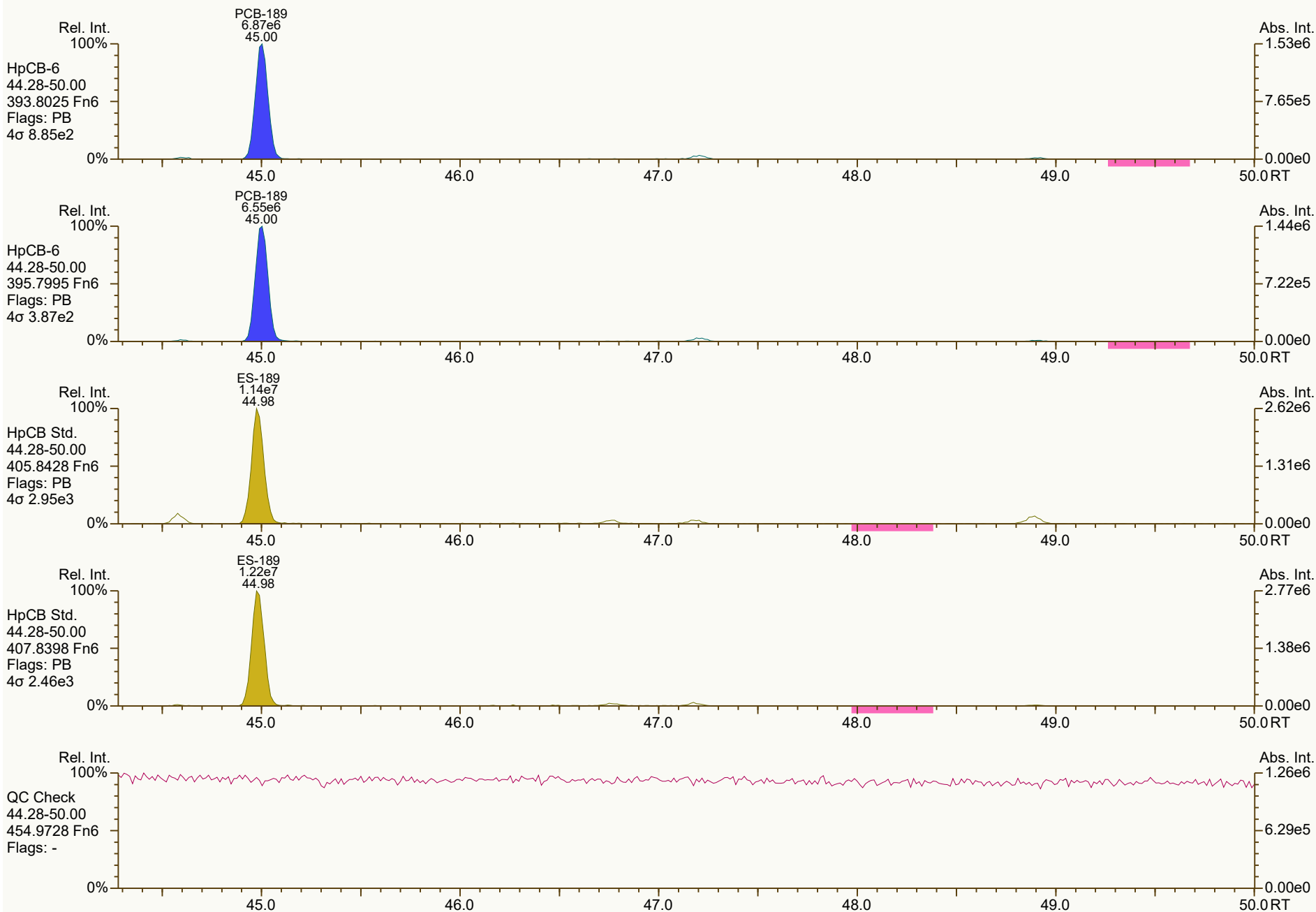
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 5822, 8322 scc: 847-896

Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 14:03 Printed: 20-Sep-2024 11:00 Page 16 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



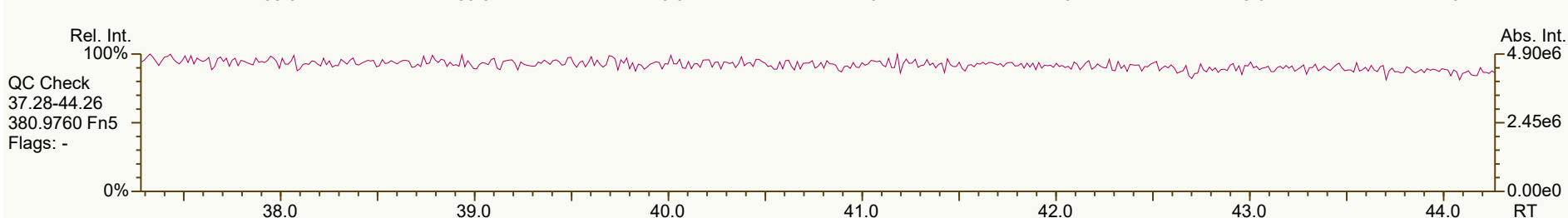
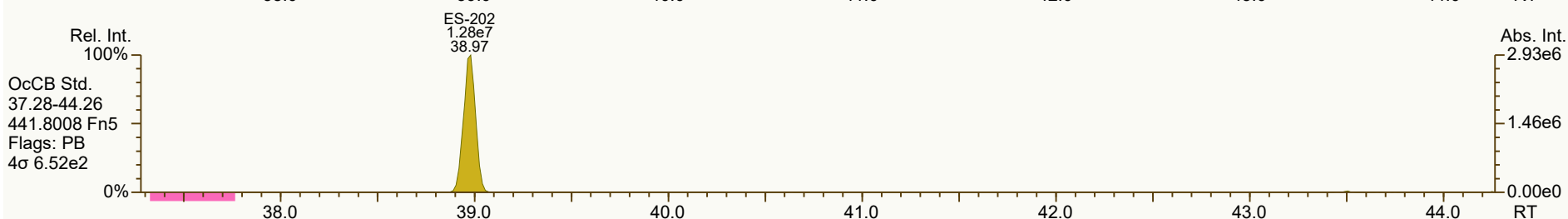
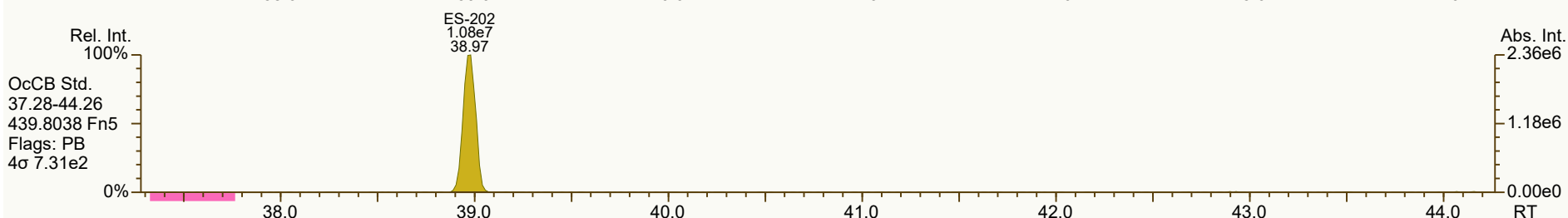
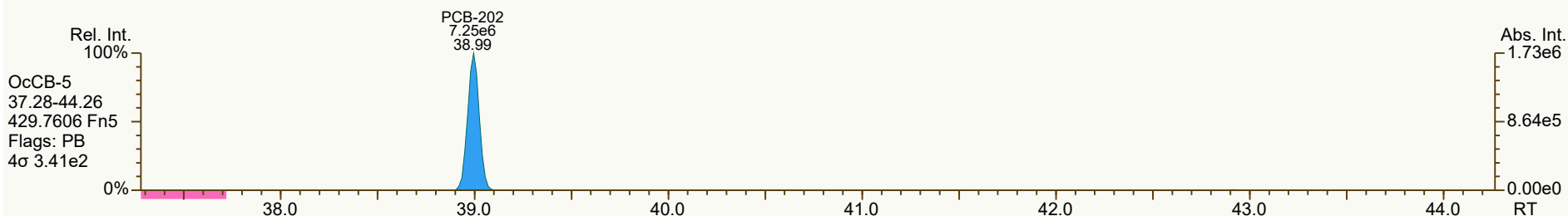
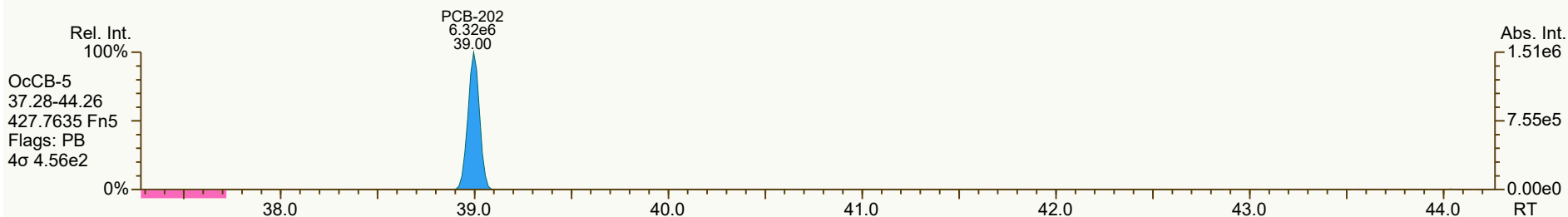
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2839, 8181 scc: 847-896

Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 14:03 Printed: 20-Sep-2024 11:00 Page 17 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

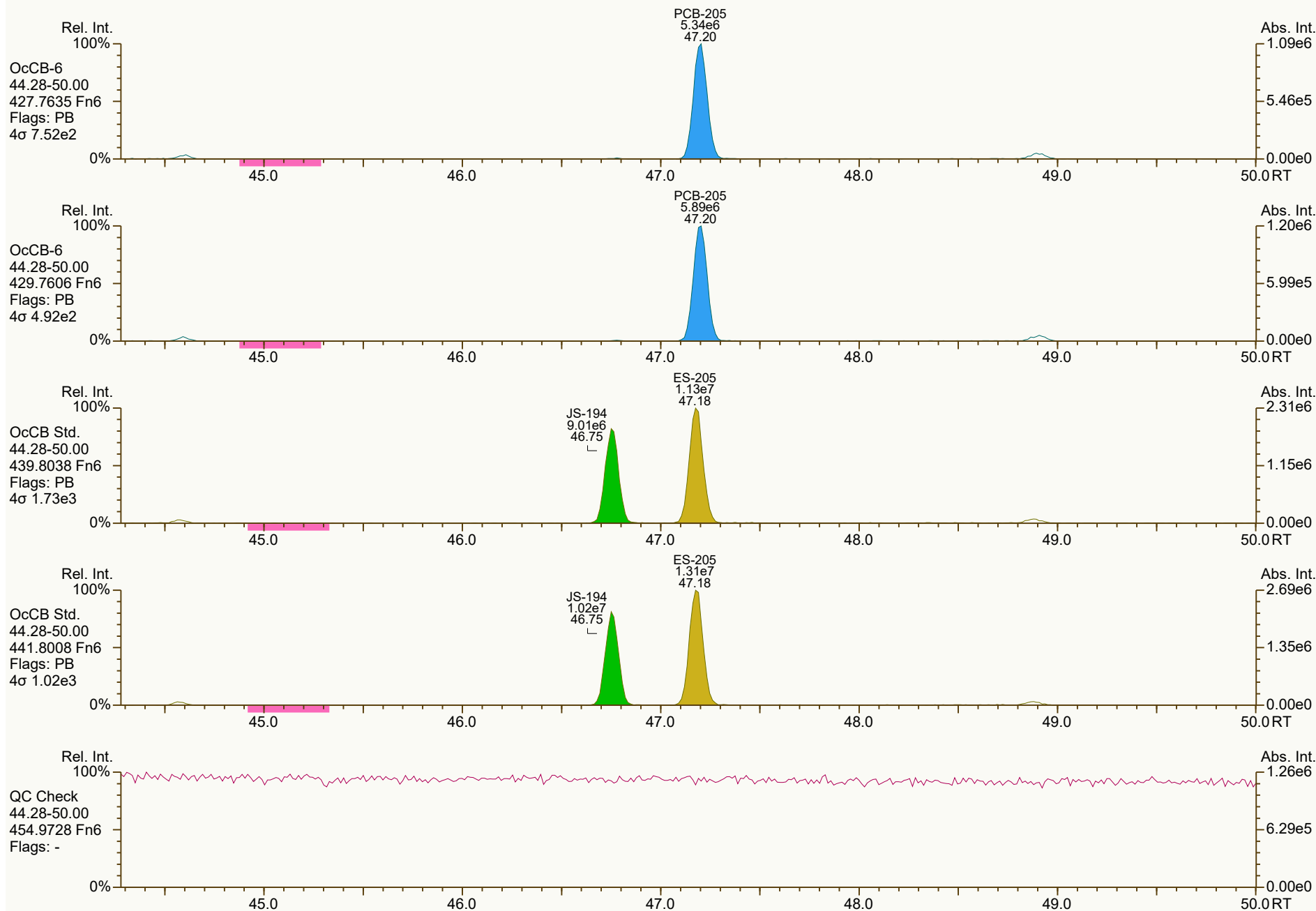
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User: RAB Datafile: 240917S03



SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



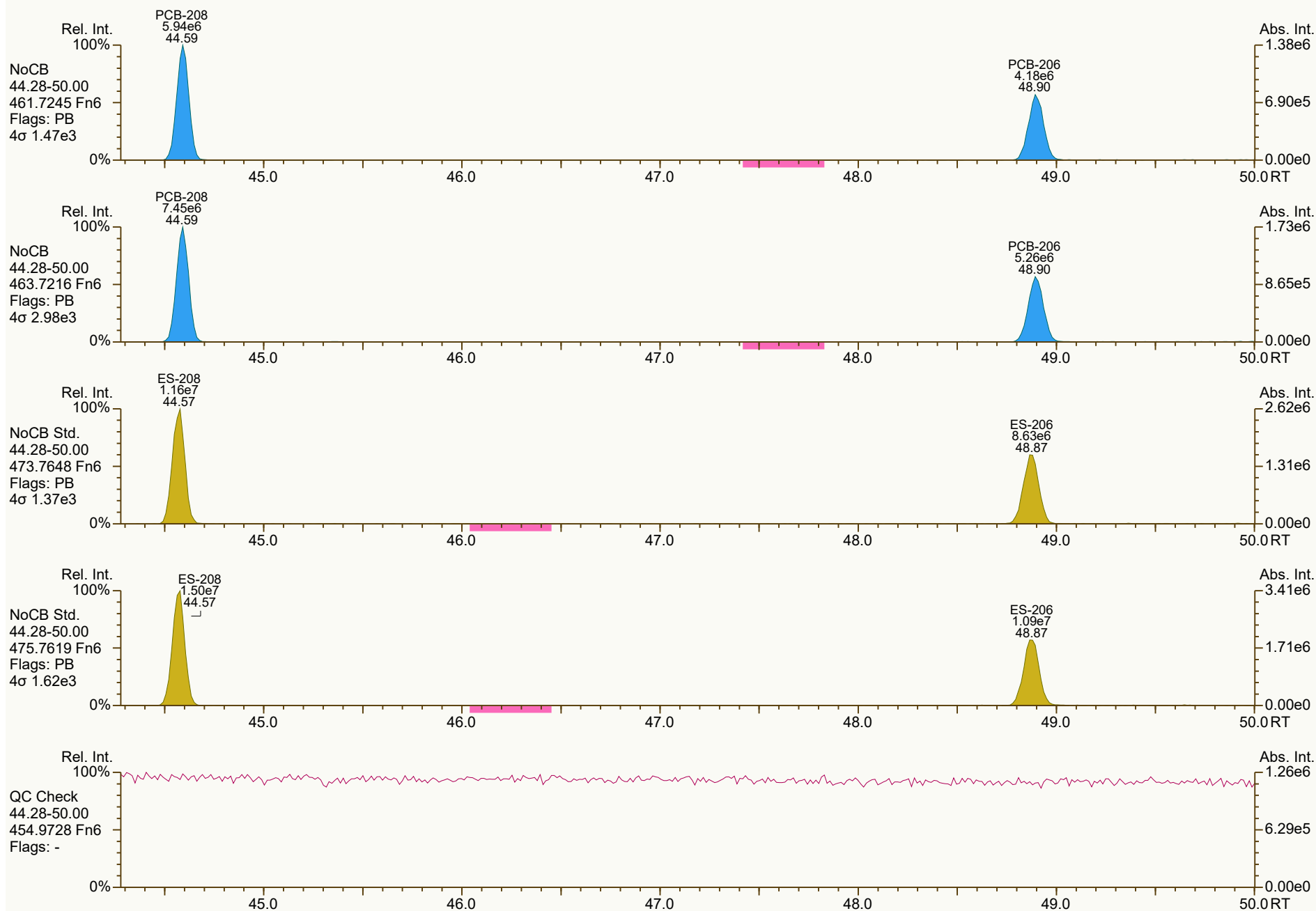
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 1541, 4690 scc: 847-896

Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 14:03 Printed: 20-Sep-2024 11:00 Page 19 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



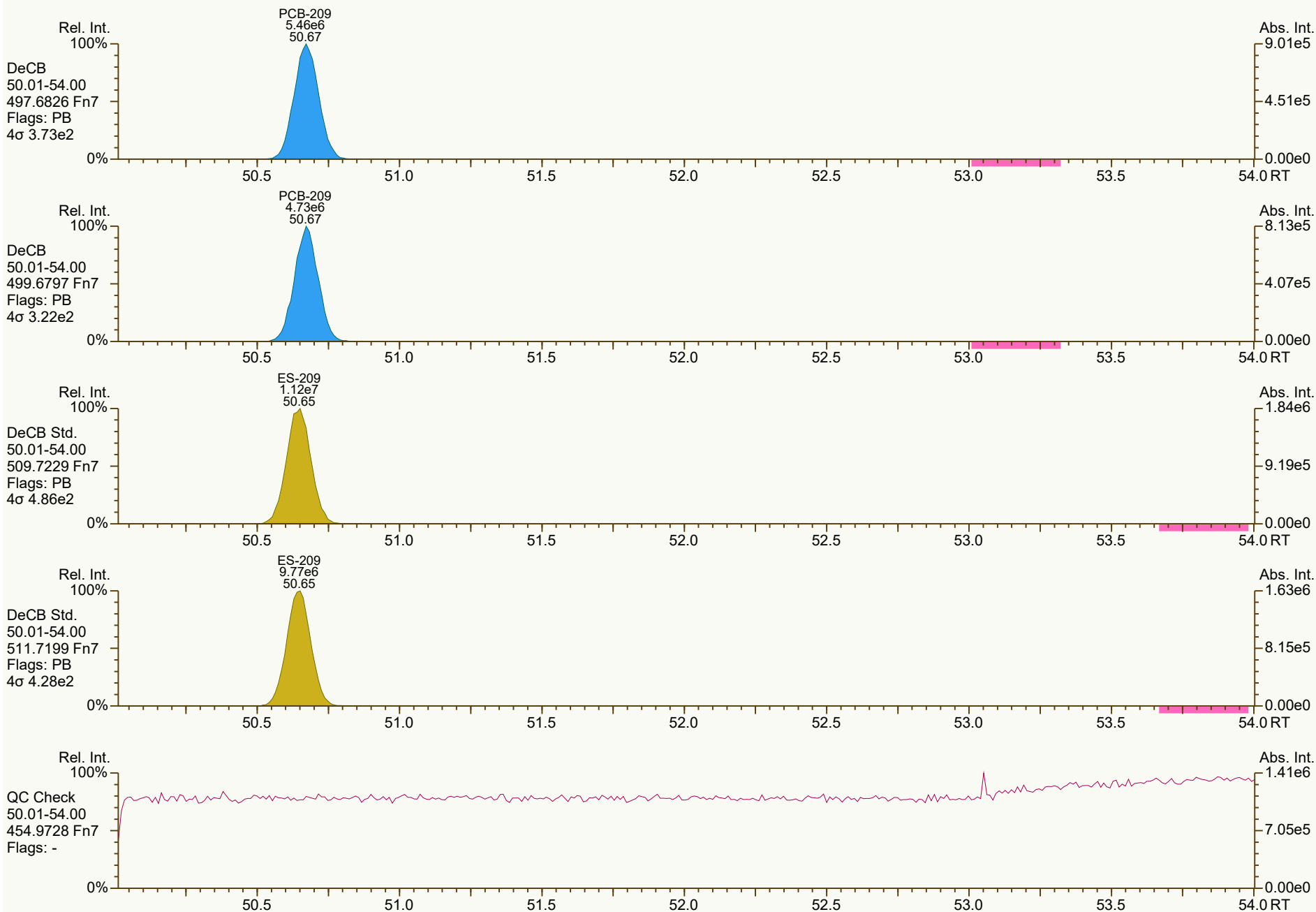
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 1860, 6086 scc: 847-896

Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 14:03 Printed: 20-Sep-2024 11:00 Page 20 of 21

SGS ID: CS3_240917_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 17-Sep-2024 13:02:58
User: RAB Datafile: 240917S03



PCB QC Summary - Ax2 Detail

SGS North America

Printed: 27 Sep 2024 10:06

Lab ID: CS3_240917_PCB_SC

Acquired: 17-SEP-2024 14:05

ICAL: MM4-PCB_03SEP2024

Datafile: 240917S04

| Name | RT | Response | RA | ICAL | RRF | Deviation |
|-----------------------------|-------|----------|--------|------|------|-----------|
| PCB-1 2-MoCB | 11.48 | 6.24E+07 | 3.11 Y | 1.47 | - | - |
| PCB-2 3-MoCB | 13.52 | 5.97E+07 | 3.12 Y | | 1.32 | - |
| PCB-3 4-MoCB | 13.70 | 6.04E+07 | 3.05 Y | 1.45 | - | - |
| PCB-4 22'-DiCB | 13.96 | 4.02E+07 | 1.57 Y | 1.30 | - | - |
| PCB-10 26-DiCB | 14.12 | 5.07E+07 | 1.56 Y | | 1.56 | - |
| PCB-9 25-DiCB | 15.88 | 5.21E+07 | 1.51 Y | | 1.18 | - |
| PCB-7 24-DiCB | 16.04 | 4.58E+07 | 1.50 Y | | 1.04 | - |
| PCB-6 23'-DiCB | 16.27 | 5.32E+07 | 1.50 Y | | 1.20 | - |
| PCB-5 23-DiCB | 16.57 | 4.36E+07 | 1.51 Y | | 0.99 | - |
| PCB-8 24'-DiCB | 16.68 | 5.61E+07 | 1.52 Y | | 1.27 | - |
| PCB-14 35-DiCB | 18.20 | 4.58E+07 | 1.52 Y | | 1.04 | - |
| PCB-11 33'-DiCB | 18.98 | 4.96E+07 | 1.52 Y | | 1.12 | - |
| PCB-13/12 34'/34-DiCB | 19.27 | 8.95E+07 | 1.50 Y | | 1.01 | - |
| PCB-15 44'-DiCB | 19.56 | 4.72E+07 | 1.49 Y | 1.31 | - | - |
| PCB-19 22'6-TrCB | 16.98 | 3.48E+07 | 1.04 Y | 1.16 | - | - |
| PCB-30/18 246/22'5-TrCB | 18.68 | 9.17E+07 | 1.04 Y | | 1.43 | - |
| PCB-17 22'4-TrCB | 19.09 | 3.19E+07 | 1.02 Y | | 0.99 | - |
| PCB-27 23'6-TrCB | 19.29 | 4.54E+07 | 1.03 Y | | 1.42 | - |
| PCB-24 236-TrCB | 19.41 | 4.58E+07 | 1.04 Y | | 1.43 | - |
| PCB-16 22'3-TrCB | 19.52 | 3.01E+07 | 1.04 Y | | 0.94 | - |
| PCB-32 24'6-TrCB | 19.98 | 4.98E+07 | 1.04 Y | | 1.55 | - |
| PCB-34 23'5'-TrCB | 21.11 | 4.46E+07 | 1.06 Y | | 1.17 | - |
| PCB-23 235-TrCB | 21.25 | 4.43E+07 | 1.07 Y | | 1.16 | - |
| PCB-26/29 23'5/245-TrCB | 21.53 | 9.07E+07 | 1.07 Y | | 1.19 | - |
| PCB-25 23'4-TrCB | 21.74 | 5.45E+07 | 1.07 Y | | 1.43 | - |
| PCB-31 24'5-TrCB | 22.02 | 5.23E+07 | 1.07 Y | | 1.37 | - |
| PCB-28/20 244'/233'-TrCB | 22.30 | 9.80E+07 | 1.06 Y | | 1.28 | - |
| PCB-21/33 234/23'4'-TrCB | 22.47 | 9.42E+07 | 1.07 Y | | 1.23 | - |
| PCB-22 234'-TrCB | 22.85 | 5.08E+07 | 1.06 Y | | 1.33 | - |
| PCB-36 33'5-TrCB | 24.20 | 5.27E+07 | 1.07 Y | | 1.38 | - |
| PCB-39 34'5-TrCB | 24.53 | 4.82E+07 | 1.07 Y | | 1.26 | - |
| PCB-38 345-TrCB | 25.05 | 4.85E+07 | 1.08 Y | | 1.27 | - |
| PCB-35 33'4-TrCB | 25.45 | 4.56E+07 | 1.06 Y | | 1.19 | - |
| PCB-37 344'-TrCB | 25.82 | 4.56E+07 | 1.07 Y | 1.43 | - | - |
| PCB-54 22'66'-TeCB | 19.84 | 3.80E+07 | 0.80 Y | 1.52 | - | - |
| PCB-50/53 22'46/22'56'-TeCB | 21.79 | 6.45E+07 | 0.78 Y | | 0.86 | - |
| PCB-45 22'36'-TeCB | 22.38 | 2.71E+07 | 0.76 Y | | 0.72 | - |
| PCB-51 22'46'-TeCB | 22.44 | 3.26E+07 | 0.80 Y | | 0.87 | - |
| PCB-46 22'36'-TeCB | 22.67 | 2.56E+07 | 0.79 Y | | 0.68 | - |
| PCB-52 22'55'-TeCB | 23.89 | 3.64E+07 | 0.79 Y | | 0.97 | - |
| PCB-73 23'5'6'-TeCB | 24.01 | 4.45E+07 | 0.79 Y | | 1.19 | - |
| PCB-43 22'35'-TeCB | 24.10 | 3.04E+07 | 0.79 Y | | 0.81 | - |

PCB QC Summary - Ax2 Detail

SGS North America

Printed: 27 Sep 2024 10:06

Lab ID: CS3_240917_PCB_SC

Acquired: 17-SEP-2024 14:05

ICAL: MM4-PCB_03SEP2024

Datafile: 240917S04

| Name | RT | Response | RA | ICAL | RRF | Deviation |
|---------------------------------|-------|----------|--------|------|------|-----------|
| PCB-69/49 23'46/22'45'-TeCB | 24.29 | 7.26E+07 | 0.79 Y | | 0.97 | - |
| PCB-48 22'45'-TeCB | 24.57 | 3.10E+07 | 0.79 Y | | 0.83 | - |
| PCB-44/47/65 ...-TeCB | 24.79 | 1.06E+08 | 0.78 Y | | 0.94 | - |
| PCB-59/62/75 ...-TeCB | 25.06 | 1.22E+08 | 0.78 Y | | 1.09 | - |
| PCB-42 22'34'-TeCB | 25.24 | 2.73E+07 | 0.79 Y | | 0.73 | - |
| PCB-41 22'34'-TeCB | 25.57 | 2.36E+07 | 0.78 Y | | 0.63 | - |
| PCB-71/40 23'4'6/22'33'-TeCB | 25.67 | 6.87E+07 | 0.79 Y | | 0.92 | - |
| PCB-64 234'6'-TeCB | 25.86 | 4.15E+07 | 0.78 Y | | 1.11 | - |
| PCB-72 23'55'-TeCB | 26.56 | 4.48E+07 | 0.78 Y | | 1.20 | - |
| PCB-68 23'45'-TeCB | 26.81 | 4.23E+07 | 0.78 Y | | 1.13 | - |
| PCB-57 233'5'-TeCB | 27.18 | 4.28E+07 | 0.78 Y | | 1.14 | - |
| PCB-58 233'5'-TeCB | 27.39 | 4.90E+07 | 0.78 Y | | 1.31 | - |
| PCB-67 23'45'-TeCB | 27.53 | 4.93E+07 | 0.77 Y | | 1.32 | - |
| PCB-63 234'5'-TeCB | 27.76 | 4.06E+07 | 0.78 Y | | 1.08 | - |
| PCB-61/70/74/76 ...-TeCB | 28.05 | 1.76E+08 | 0.77 Y | | 1.18 | - |
| PCB-66 23'44'-TeCB | 28.34 | 4.62E+07 | 0.78 Y | | 1.23 | - |
| PCB-55 233'4'-TeCB | 28.49 | 4.56E+07 | 0.78 Y | | 1.22 | - |
| PCB-56 233'4'-TeCB | 28.93 | 4.49E+07 | 0.78 Y | | 1.20 | - |
| PCB-60 2344'-TeCB | 29.12 | 3.88E+07 | 0.77 Y | | 1.04 | - |
| PCB-80 33'55'-TeCB | 29.42 | 4.94E+07 | 0.78 Y | | 1.32 | - |
| PCB-79 33'45'-TeCB | 30.75 | 5.44E+07 | 0.78 Y | | 1.45 | - |
| PCB-78 33'45'-TeCB | 31.23 | 4.43E+07 | 0.78 Y | | 1.18 | - |
| PCB-104 22'466'-PeCB | 24.73 | 2.97E+07 | 0.61 Y | 1.46 | - | - |
| PCB-96 22'366'-PeCB | 25.07 | 3.32E+07 | 0.61 Y | | 1.19 | - |
| PCB-103 22'45'6'-PeCB | 26.72 | 2.51E+07 | 0.63 Y | | 0.72 | - |
| PCB-94 22'356'-PeCB | 26.92 | 2.08E+07 | 0.62 Y | | 0.59 | - |
| PCB-95 22'35'6'-PeCB | 27.31 | 2.39E+07 | 0.63 Y | | 0.68 | - |
| PCB-100/93 22'44'6/22'356'-PeCB | 27.50 | 4.57E+07 | 0.62 Y | | 0.65 | - |
| PCB-102 22'456'-PeCB | 27.62 | 2.98E+07 | 0.62 Y | | 0.85 | - |
| PCB-98 22'34'6'-PeCB | 27.68 | 2.53E+07 | 0.63 Y | | 0.72 | - |
| PCB-88 22'346'-PeCB | 27.98 | 2.14E+07 | 0.62 Y | | 0.61 | - |
| PCB-91 22'34'6'-PeCB | 28.05 | 2.52E+07 | 0.63 Y | | 0.72 | - |
| PCB-84 22'33'6'-PeCB | 28.26 | 1.99E+07 | 0.63 Y | | 0.57 | - |
| PCB-89 22'346'-PeCB | 28.67 | 2.42E+07 | 0.64 Y | | 0.69 | - |
| PCB-121 23'45'6'-PeCB | 28.97 | 3.68E+07 | 0.62 Y | | 1.05 | - |
| PCB-92 22'355'-PeCB | 29.31 | 2.40E+07 | 0.62 Y | | 0.68 | - |
| PCB-113/90/101 ...-PeCB | 29.79 | 8.56E+07 | 0.62 Y | | 0.81 | - |
| PCB-83 22'33'5'-PeCB | 30.23 | 2.07E+07 | 0.62 Y | | 0.59 | - |
| PCB-99 22'44'5'-PeCB | 30.31 | 3.31E+07 | 0.62 Y | | 0.94 | - |
| PCB-112 233'56'-PeCB | 30.42 | 3.97E+07 | 0.62 Y | | 1.13 | - |
| PCB-109/119/86/97/125...-PeCB | 30.77 | 1.88E+08 | 0.62 Y | | 0.89 | - |
| PCB-117 234'56'-PeCB | 31.29 | 3.34E+07 | 0.63 Y | | 0.95 | - |

PCB QC Summary - Ax2 Detail

SGS North America

Printed: 27 Sep 2024 10:06

Lab ID: CS3_240917_PCB_SC

Acquired: 17-SEP-2024 14:05

ICAL: MM4-PCB_03SEP2024

Datafile: 240917S04

| Name | RT | Response | RA | ICAL | RRF | Deviation |
|-------------------------------|-------|----------|--------|------|------|-----------|
| PCB-116/85 23456/22'344'-PeCE | 31.38 | 5.90E+07 | 0.63 Y | | 0.84 | - |
| PCB-110 233'4'6-PeCB | 31.52 | 3.95E+07 | 0.61 Y | | 1.12 | - |
| PCB-115 2344'6-PeCB | 31.58 | 3.90E+07 | 0.62 Y | | 1.11 | - |
| PCB-82 22'33'4-PeCB | 31.81 | 2.52E+07 | 0.63 Y | | 0.72 | - |
| PCB-111 233'55'-PeCB | 32.09 | 3.53E+07 | 0.62 Y | | 1.00 | - |
| PCB-120 23'455'-PeCB | 32.48 | 4.28E+07 | 0.63 Y | | 1.22 | - |
| PCB-108/124 ...-PeCB | 33.46 | 7.20E+07 | 0.62 Y | | 1.03 | - |
| PCB-107 233'4'5-PeCB | 33.66 | 3.80E+07 | 0.63 Y | | 1.08 | - |
| PCB-106 233'45-PeCB | 33.88 | 3.76E+07 | 0.63 Y | | 1.07 | - |
| PCB-122 233'4'5'-PeCB | 34.35 | 3.01E+07 | 0.62 Y | | 0.82 | - |
| PCB-127 33'455'-PeCB | 36.28 | 3.77E+07 | 0.63 Y | | 1.05 | - |
| PCB-155 22'44'66'-HxCB | 29.61 | 3.65E+07 | 1.27 Y | 1.36 | - | - |
| PCB-152 22'3566'-HxCB | 29.81 | 4.30E+07 | 1.25 Y | | 1.16 | - |
| PCB-150 22'34'66'-HxCB | 29.94 | 3.72E+07 | 1.26 Y | | 1.00 | - |
| PCB-136 22'33'66'-HxCB | 30.27 | 3.59E+07 | 1.24 Y | | 0.97 | - |
| PCB-145 22'3466'-HxCB | 30.52 | 4.06E+07 | 1.27 Y | | 1.09 | - |
| PCB-148 22'34'56'-HxCB | 31.77 | 2.90E+07 | 1.25 Y | | 1.00 | - |
| PCB-151/135 ...-HxCB | 32.31 | 5.68E+07 | 1.26 Y | | 0.98 | - |
| PCB-154 22'44'56'-HxCB | 32.49 | 3.07E+07 | 1.27 Y | | 1.06 | - |
| PCB-144 22'345'6-HxCB | 32.77 | 2.87E+07 | 1.24 Y | | 0.99 | - |
| PCB-147/149 ...-HxCB | 33.07 | 6.27E+07 | 1.27 Y | | 1.08 | - |
| PCB-134 22'33'56-HxCB | 33.25 | 2.27E+07 | 1.26 Y | | 0.78 | - |
| PCB-143 22'3456'-HxCB | 33.33 | 2.82E+07 | 1.25 Y | | 0.97 | - |
| PCB-139/140 ...-HxCB | 33.58 | 5.99E+07 | 1.25 Y | | 1.03 | - |
| PCB-131 22'33'46-HxCB | 33.77 | 2.64E+07 | 1.24 Y | | 0.91 | - |
| PCB-142 22'3456-HxCB | 33.90 | 2.58E+07 | 1.26 Y | | 0.89 | - |
| PCB-132 22'33'46'-HxCB | 34.16 | 2.73E+07 | 1.26 Y | | 0.94 | - |
| PCB-133 22'33'55'-HxCB | 34.54 | 2.99E+07 | 1.27 Y | | 1.03 | - |
| PCB-165 233'55'6-HxCB | 34.87 | 3.57E+07 | 1.26 Y | | 1.23 | - |
| PCB-146 22'34'55'-HxCB | 35.09 | 3.40E+07 | 1.28 Y | | 1.17 | - |
| PCB-161 233'45'6-HxCB | 35.20 | 4.13E+07 | 1.27 Y | | 1.42 | - |
| PCB-153/168 ...-HxCB | 35.63 | 7.38E+07 | 1.25 Y | | 1.27 | - |
| PCB-141 22'3455'-HxCB | 35.79 | 2.78E+07 | 1.26 Y | | 0.96 | - |
| PCB-130 22'33'45'-HxCB | 36.14 | 2.42E+07 | 1.26 Y | | 0.83 | - |
| PCB-137 22'344'5-HxCB | 36.33 | 2.94E+07 | 1.25 Y | | 1.01 | - |
| PCB-164 233'4'5'6-HxCB | 36.42 | 3.85E+07 | 1.26 Y | | 1.33 | - |
| PCB-163/138/129 ...-HxCB | 36.70 | 8.99E+07 | 1.26 Y | | 1.03 | - |
| PCB-160 233'456-HxCB | 36.83 | 3.49E+07 | 1.25 Y | | 1.20 | - |
| PCB-158 233'44'6-HxCB | 37.01 | 3.93E+07 | 1.25 Y | | 1.35 | - |
| PCB-128/166 ...-HxCB | 37.75 | 5.51E+07 | 1.23 Y | | 0.88 | - |
| PCB-159 233'455'-HxCB | 38.55 | 3.63E+07 | 1.22 Y | | 1.16 | - |
| PCB-162 233'4'55'-HxCB | 38.79 | 3.10E+07 | 1.21 Y | | 0.99 | - |

PCB QC Summary - Ax2 Detail

SGS North America

Printed: 27 Sep 2024 10:06

Lab ID: CS3_240917_PCB_SC

Acquired: 17-SEP-2024 14:05

ICAL: MM4-PCB_03SEP2024

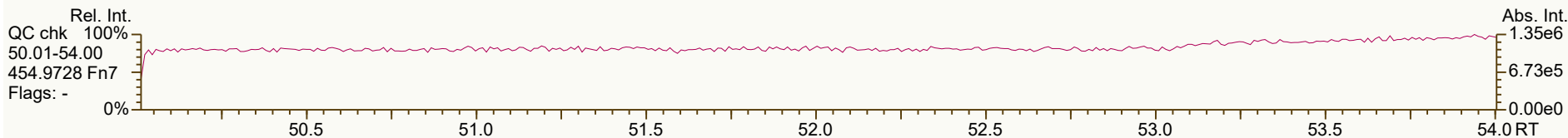
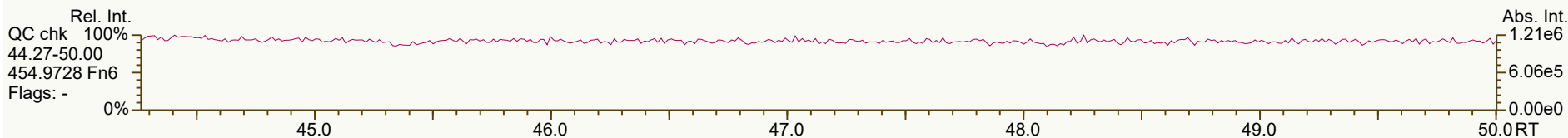
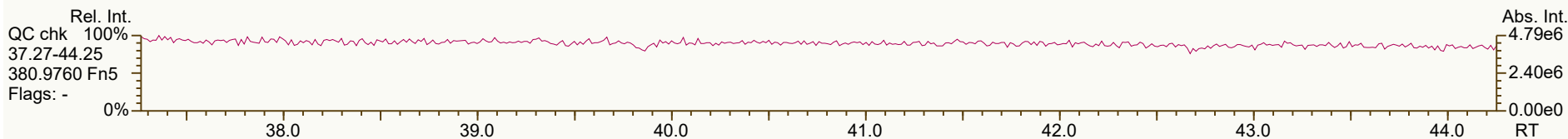
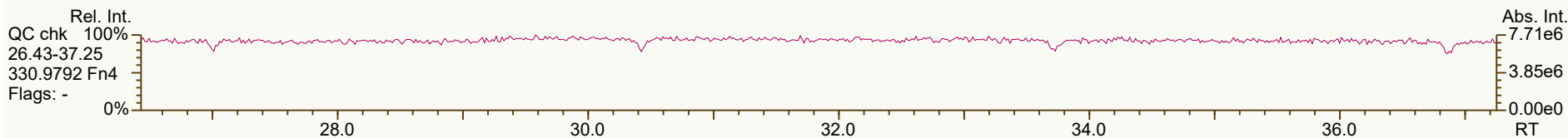
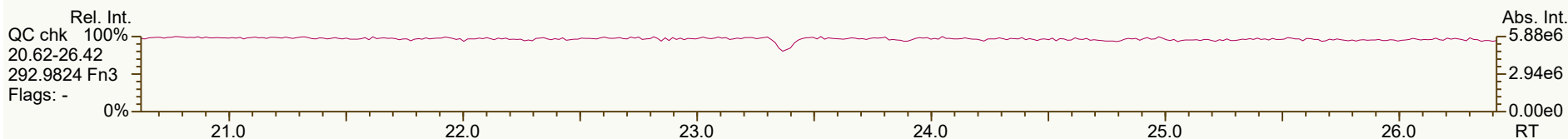
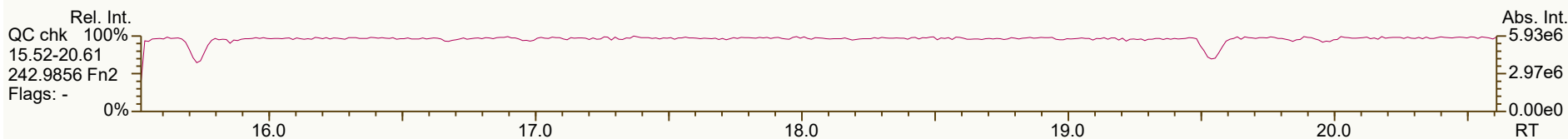
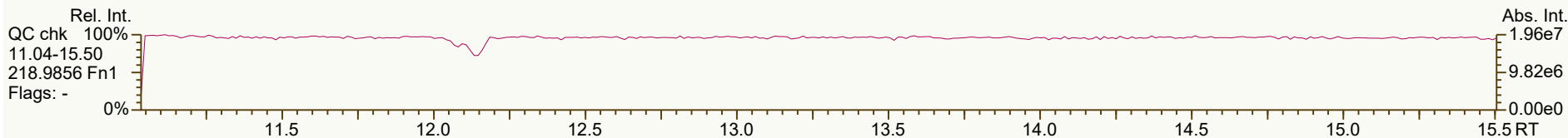
Datafile: 240917S04

| Name | RT | Response | RA | ICAL | RRF | Deviation |
|-----------------------------|-------|----------|--------|------|------|-----------|
| PCB-188 22'34'566'-HpCB | 34.47 | 2.88E+07 | 1.02 Y | 1.55 | - | - |
| PCB-179 22'33'566'-HpCB | 34.78 | 3.08E+07 | 1.02 Y | | 1.32 | - |
| PCB-184 22'344'66'-HpCB | 35.20 | 2.82E+07 | 1.01 Y | | 1.20 | - |
| PCB-176 22'33'466'-HpCB | 35.53 | 2.65E+07 | 1.02 Y | | 1.13 | - |
| PCB-186 22'34566'-HpCB | 35.92 | 3.17E+07 | 1.00 Y | | 1.35 | - |
| PCB-178 22'33'55'6'-HpCB | 37.04 | 2.10E+07 | 1.03 Y | | 0.90 | - |
| PCB-175 22'33'45'6'-HpCB | 37.58 | 2.65E+07 | 1.02 Y | | 0.96 | - |
| PCB-187 22'34'55'6'-HpCB | 37.81 | 3.24E+07 | 1.03 Y | | 1.18 | - |
| PCB-182 22'344'56'-HpCB | 37.98 | 3.13E+07 | 1.02 Y | | 1.13 | - |
| PCB-183 22'344'5'6'-HpCB | 38.32 | 2.95E+07 | 1.04 Y | | 1.07 | - |
| PCB-185 22'3455'6'-HpCB | 38.42 | 2.54E+07 | 1.04 Y | | 0.92 | - |
| PCB-174 22'33'456'-HpCB | 38.54 | 2.83E+07 | 1.03 Y | | 1.02 | - |
| PCB-177 22'33'45'6'-HpCB | 38.91 | 2.83E+07 | 1.02 Y | | 1.03 | - |
| PCB-181 22'344'56'-HpCB | 39.24 | 2.99E+07 | 1.03 Y | | 1.08 | - |
| PCB-171/173 ...-HpCB | 39.44 | 5.04E+07 | 1.03 Y | | 0.91 | - |
| PCB-172 22'33'455'-HpCB | 40.78 | 2.65E+07 | 1.02 Y | | 0.96 | - |
| PCB-192 233'455'6'-HpCB | 41.02 | 3.83E+07 | 1.05 Y | | 1.39 | - |
| PCB-180/193 ...-HpCB | 41.30 | 6.35E+07 | 1.04 Y | | 1.15 | - |
| PCB-191 233'44'5'6'-HpCB | 41.63 | 3.42E+07 | 1.05 Y | | 1.24 | - |
| PCB-170 22'33'44'5'-HpCB | 42.41 | 2.47E+07 | 1.03 Y | | 1.04 | - |
| PCB-190 233'44'56'-HpCB | 42.85 | 3.41E+07 | 1.03 Y | | 1.43 | - |
| PCB-202 22'33'55'66'-OcCB | 39.00 | 2.78E+07 | 0.85 Y | 1.32 | - | - |
| PCB-201 22'33'45'66'-OcCB | 39.77 | 2.56E+07 | 0.85 Y | | 0.95 | - |
| PCB-204 22'344'566'-OcCB | 40.34 | 2.94E+07 | 0.86 Y | | 1.09 | - |
| PCB-197 22'33'44'66'-OcCB | 40.53 | 2.79E+07 | 0.86 Y | | 1.04 | - |
| PCB-200 22'33'4566'-OcCB | 40.64 | 2.63E+07 | 0.87 Y | | 0.98 | - |
| PCB-198/199 ...-OcCB | 42.95 | 4.70E+07 | 0.86 Y | | 0.88 | - |
| PCB-196 22'33'44'56'-OcCB | 43.52 | 2.11E+07 | 0.85 Y | | 0.78 | - |
| PCB-203 22'344'55'6'-OcCB | 43.69 | 2.60E+07 | 0.87 Y | | 0.97 | - |
| PCB-195 22'33'44'56'-OcCB | 44.82 | 1.98E+07 | 0.90 Y | | 0.74 | - |
| PCB-194 22'33'44'55'-OcCB | 46.78 | 2.17E+07 | 0.89 Y | | 0.81 | - |
| PCB-205 233'44'55'6'-OcCB | 47.20 | 2.45E+07 | 0.91 Y | 1.12 | - | - |
| PCB-208 22'33'455'66'-NoCB | 44.59 | 2.73E+07 | 0.79 Y | 1.11 | - | - |
| PCB-207 22'33'44'566'-NoCB | 45.38 | 2.67E+07 | 0.78 Y | | 0.90 | - |
| PCB-206 22'33'44'55'6'-NoCB | 48.90 | 2.30E+07 | 0.78 Y | 1.04 | - | - |

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



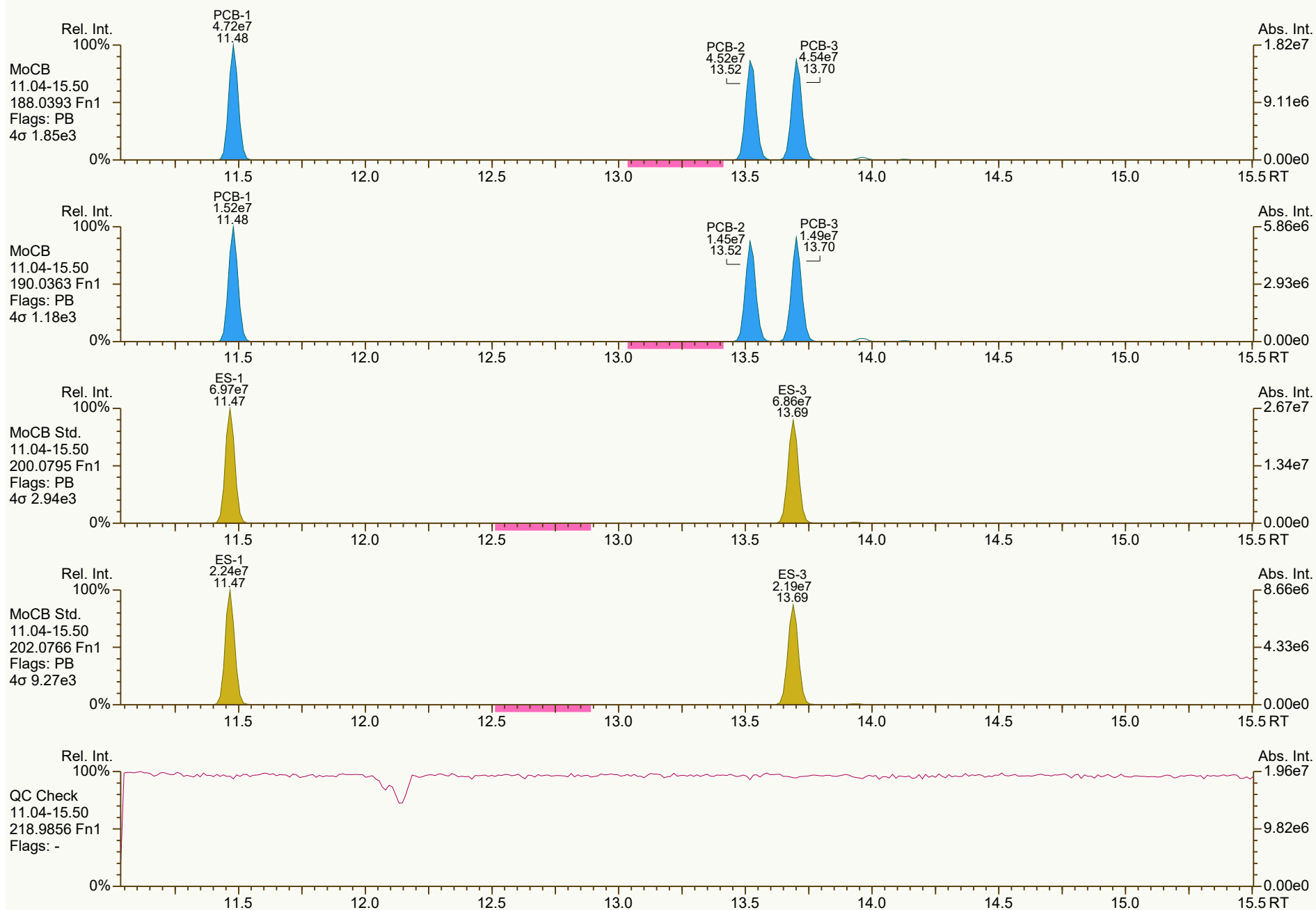
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q scc: 977-098

Peak annotation: Areas, Centroids
PKD: n/a Printed: 20-Sep-2024 11:00 Page 1 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



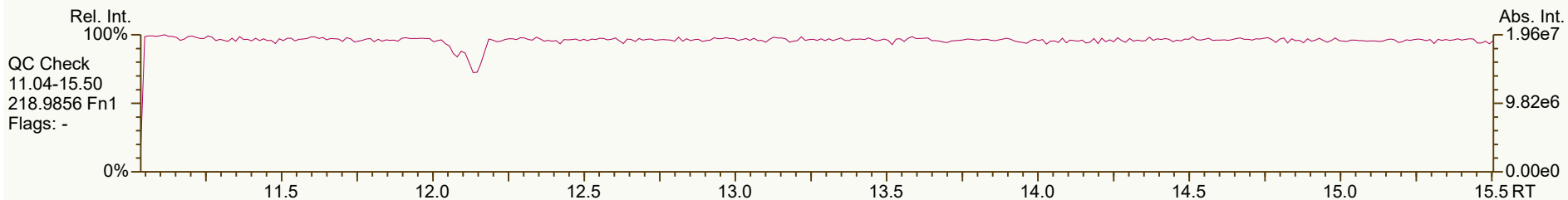
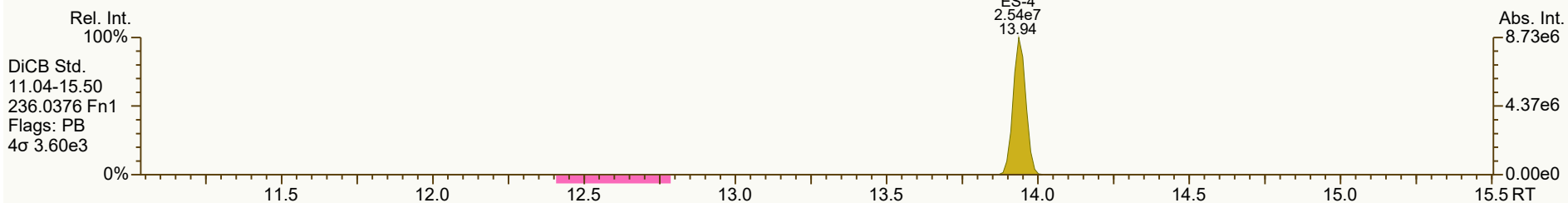
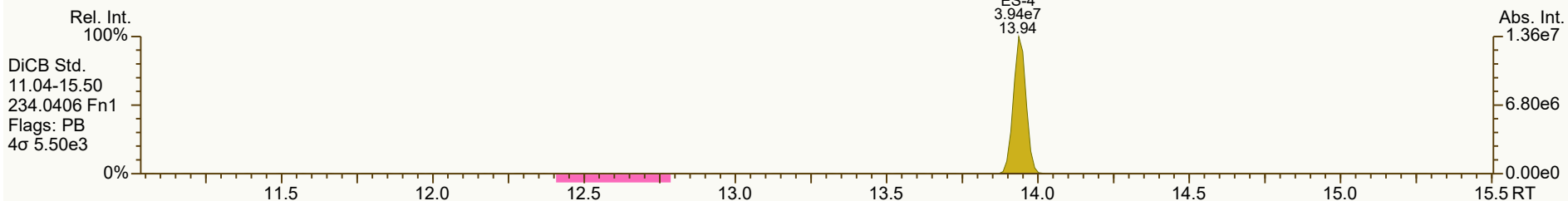
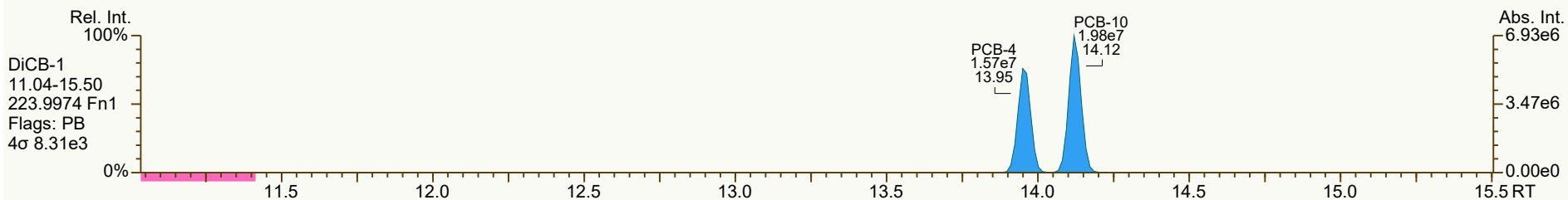
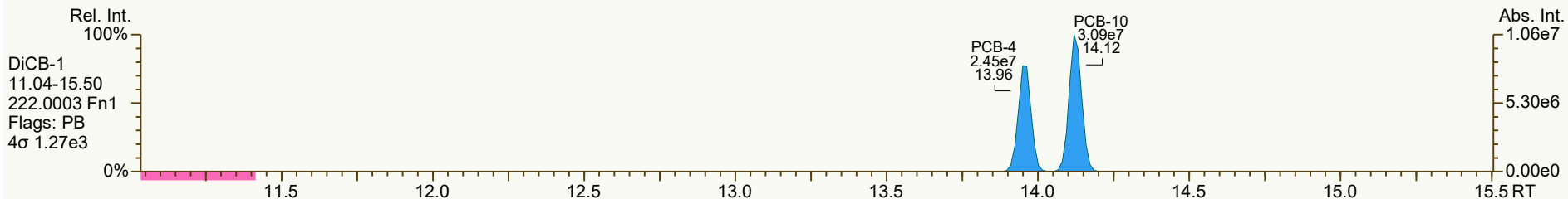
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4712, 3251 scc: 977-098

Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 15:05 Printed: 20-Sep-2024 11:00 Page 2 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

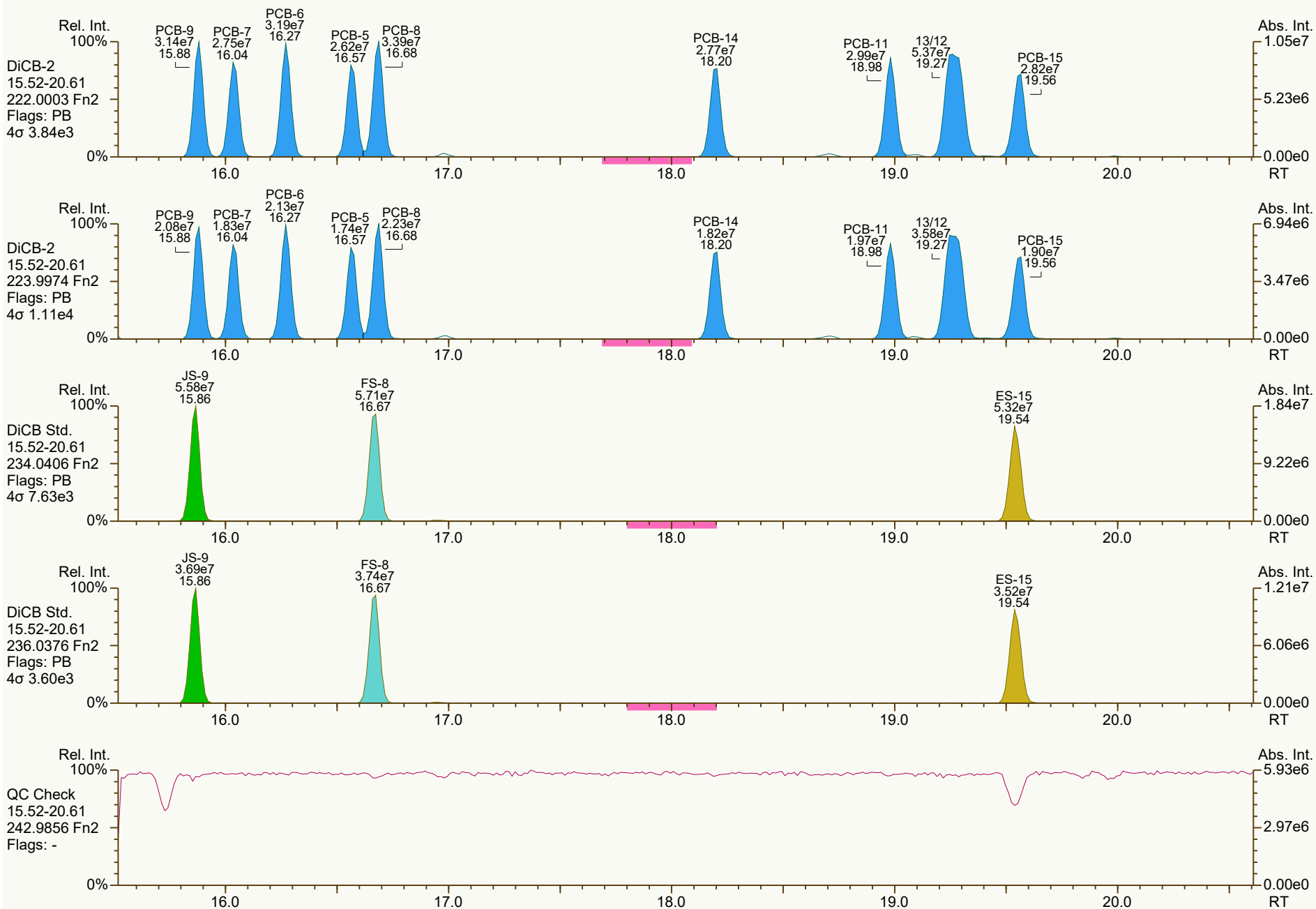
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SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



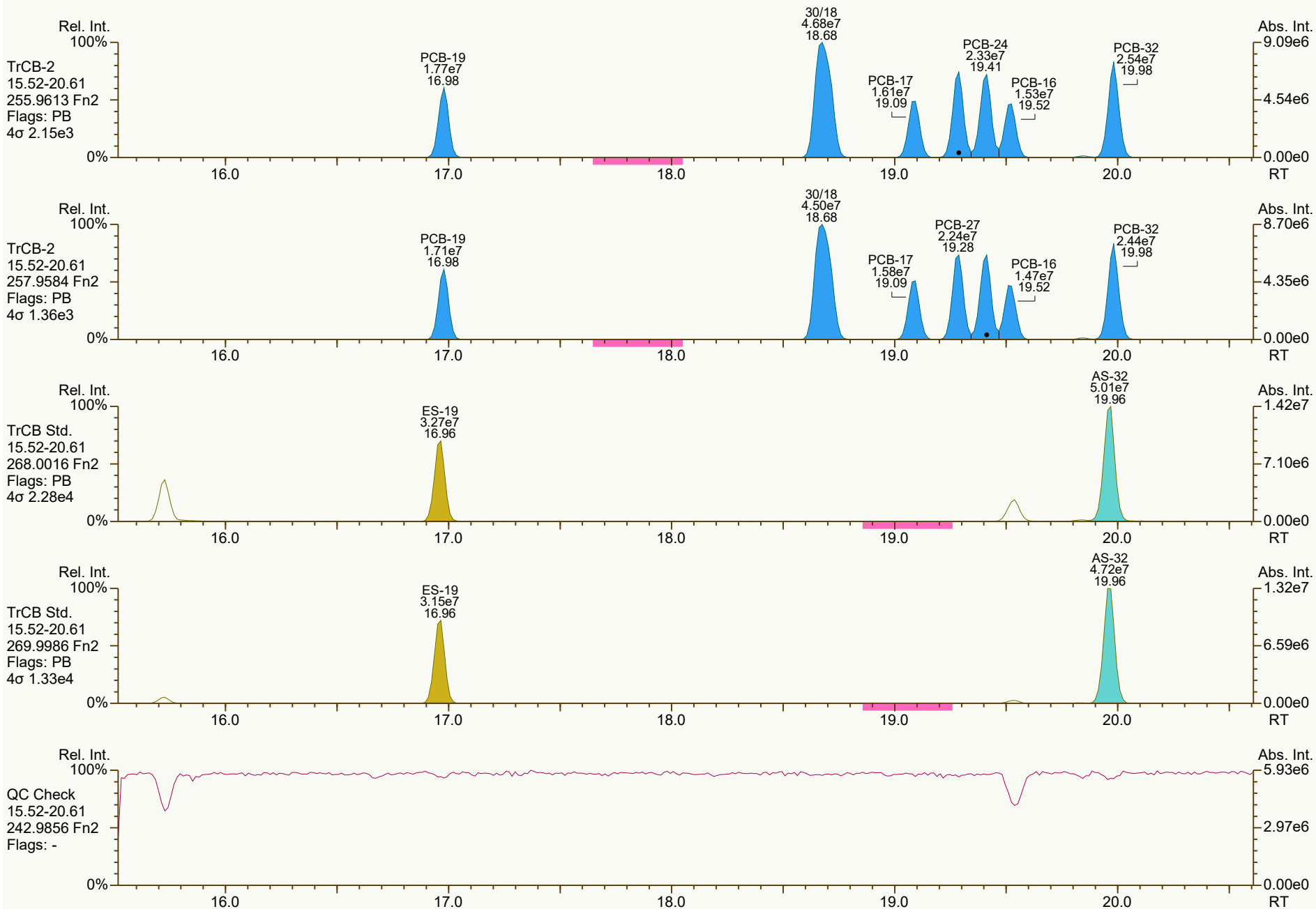
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2060, 2369 scc: 977-098

Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 15:05 Printed: 20-Sep-2024 11:00 Page 4 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



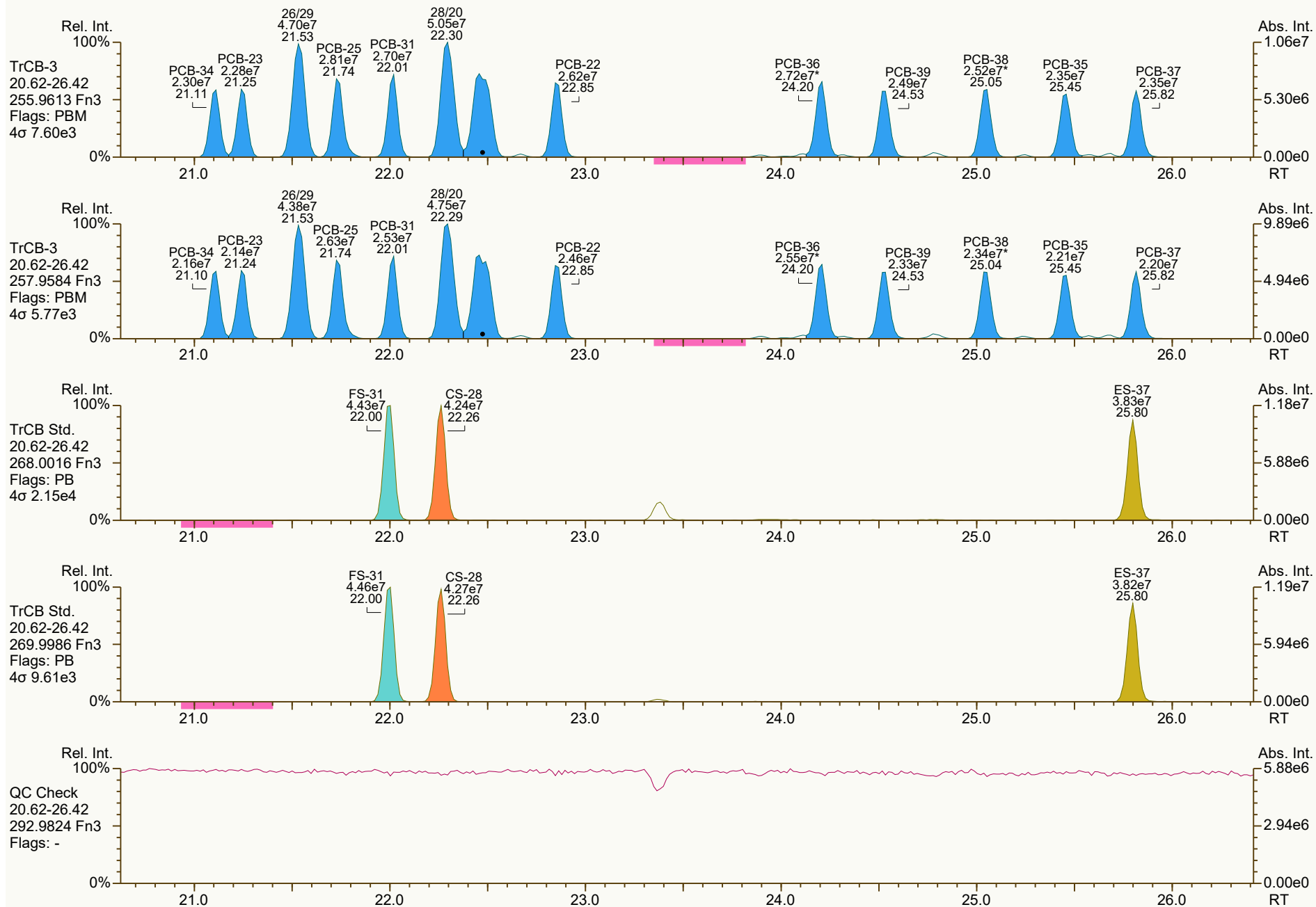
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2354, 5428 scc: 977-098

Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 15:05 Printed: 20-Sep-2024 11:00 Page 5 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



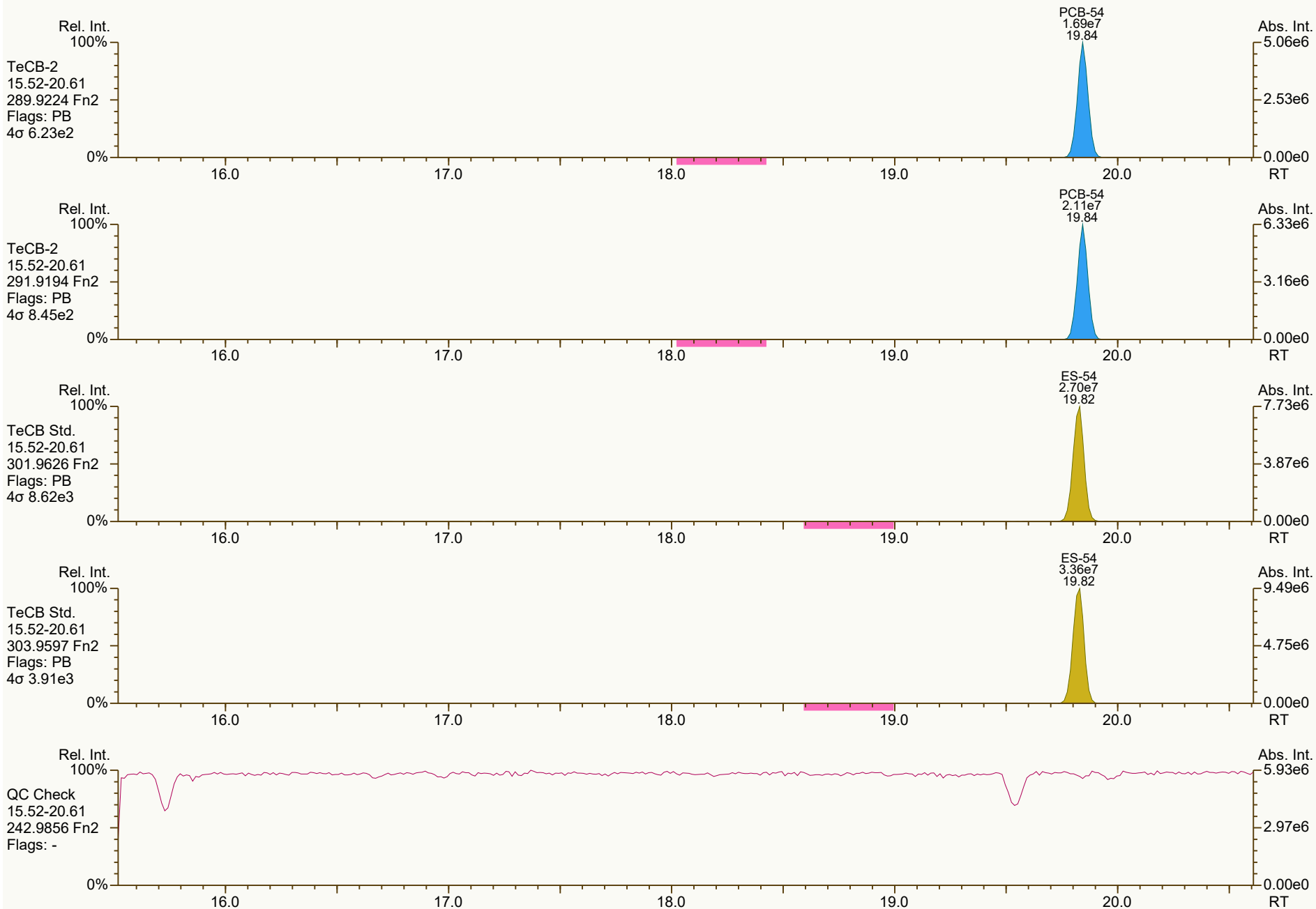
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Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 15:05 Printed: 20-Sep-2024 11:00 Page 6 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



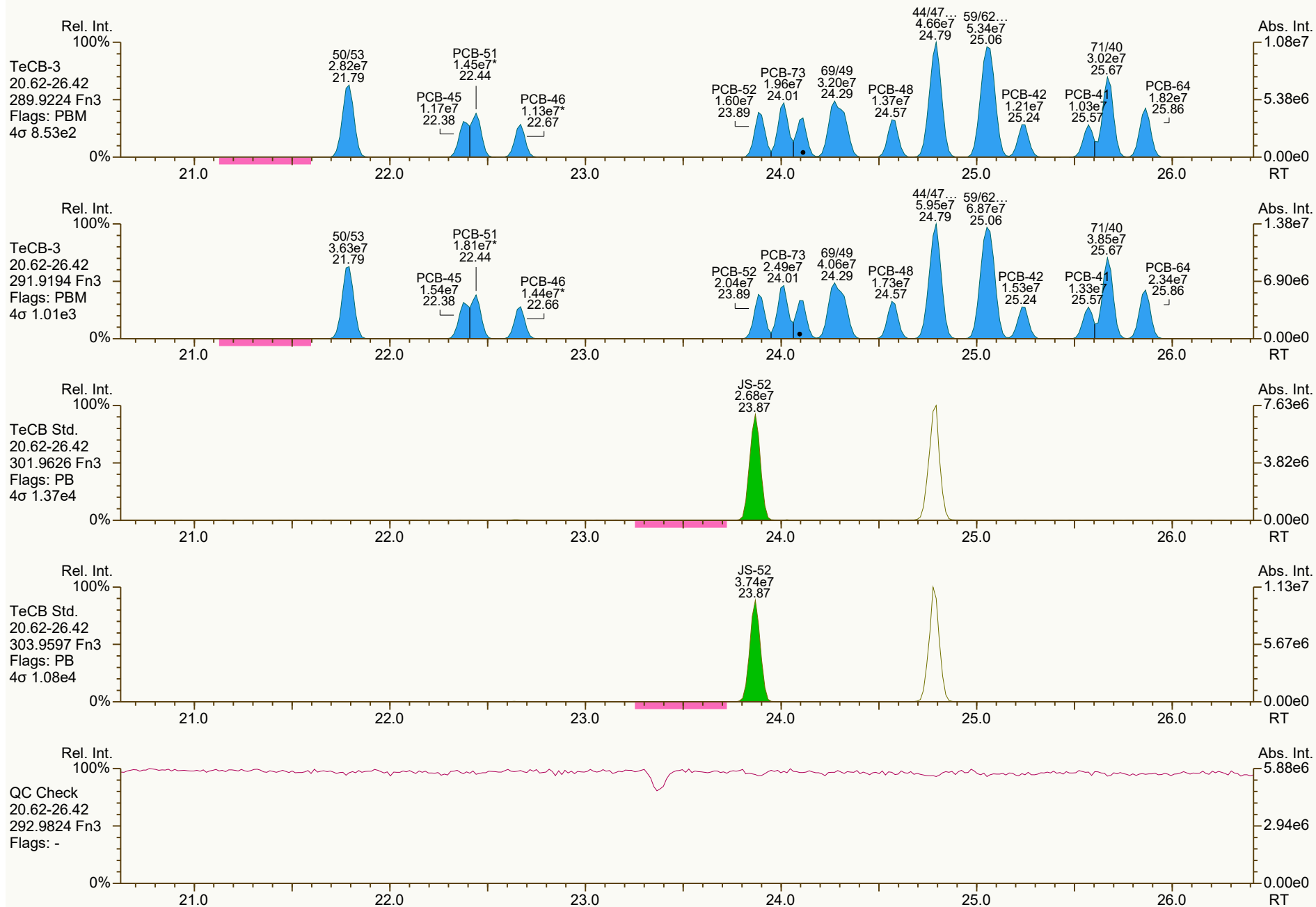
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 5343, 1620 scc: 977-098

Peak annotation: Areas, Centroids
Revised: 17-Sep-2024 15:03 (PSW) Printed: 20-Sep-2024 11:00 Page 7 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



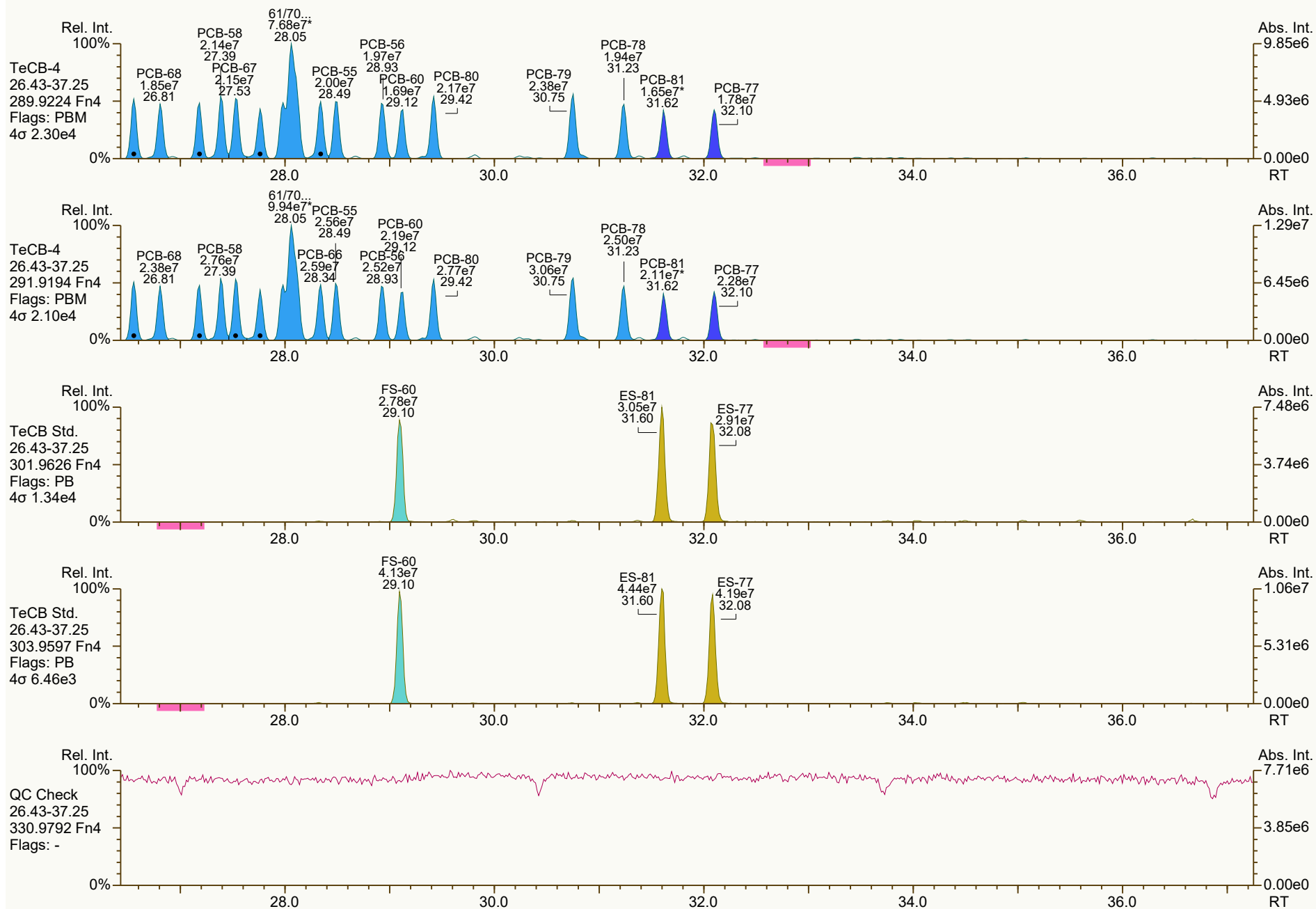
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Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 15:05 Printed: 20-Sep-2024 11:00 Page 8 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



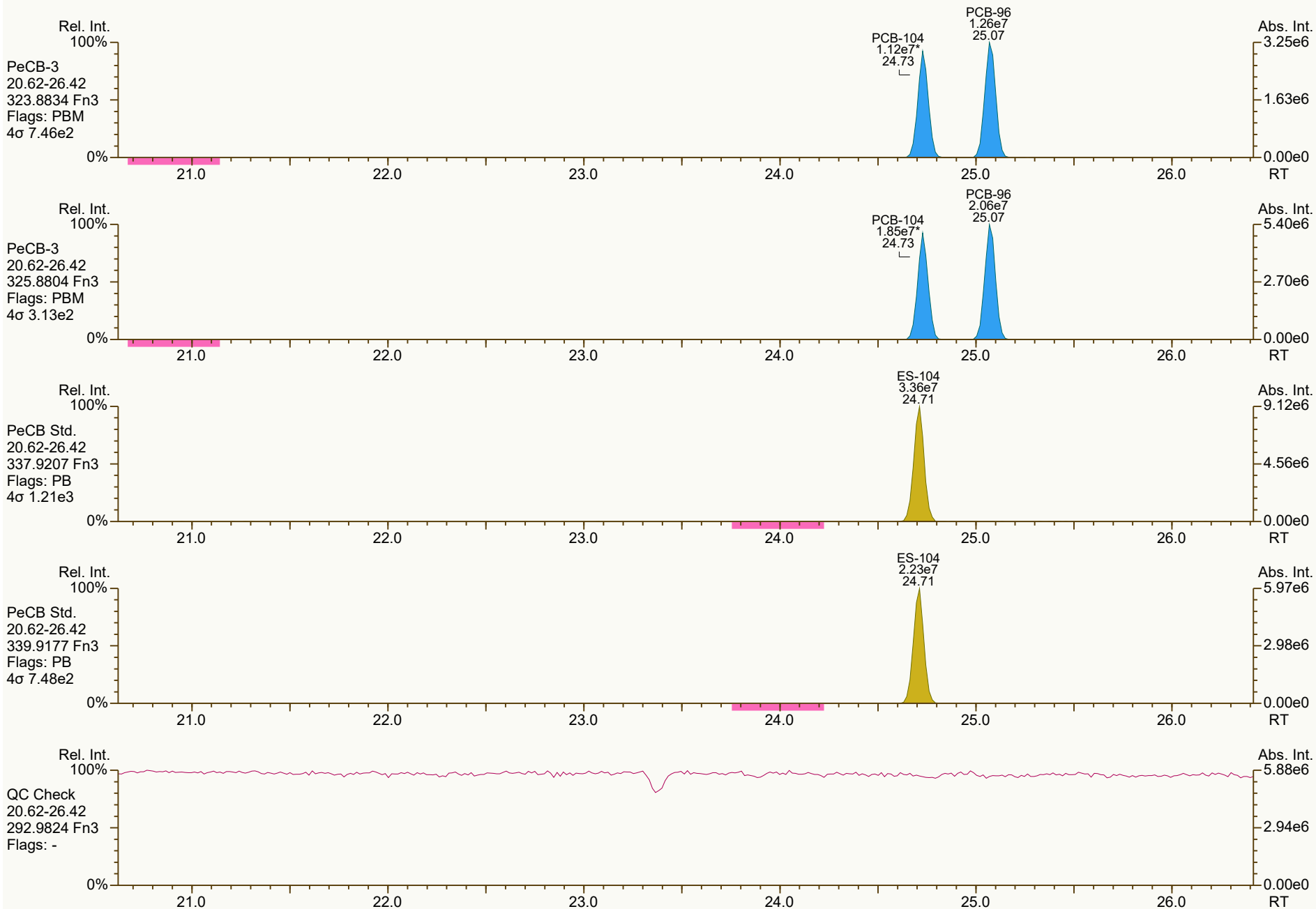
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Peak annotation: Areas, Centroids
Revised: 17-Sep-2024 15:11 (PSW) Printed: 20-Sep-2024 11:00 Page 9 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



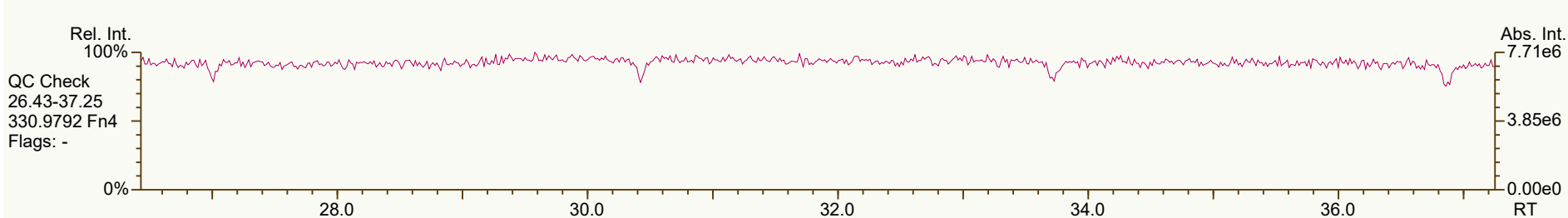
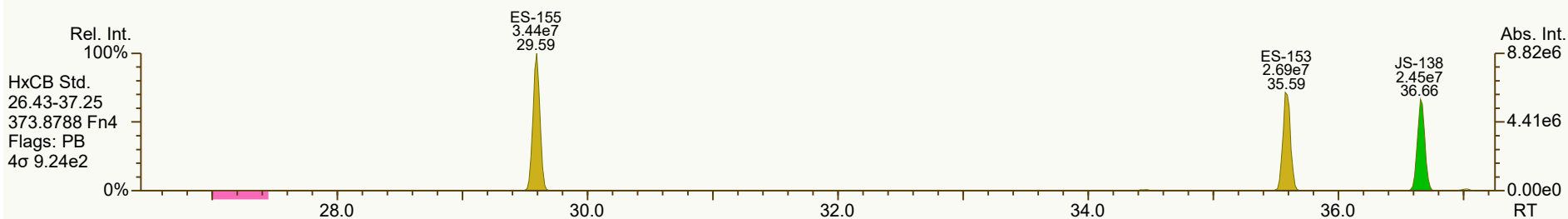
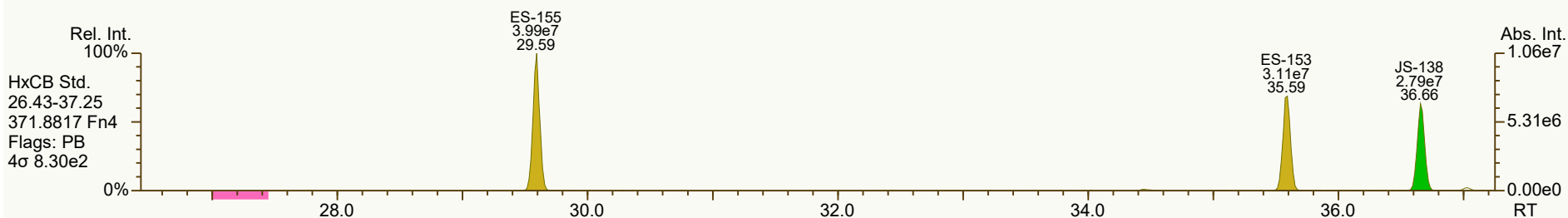
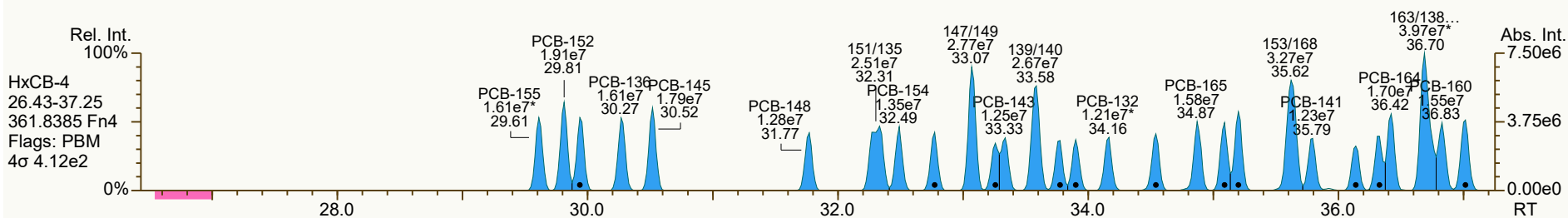
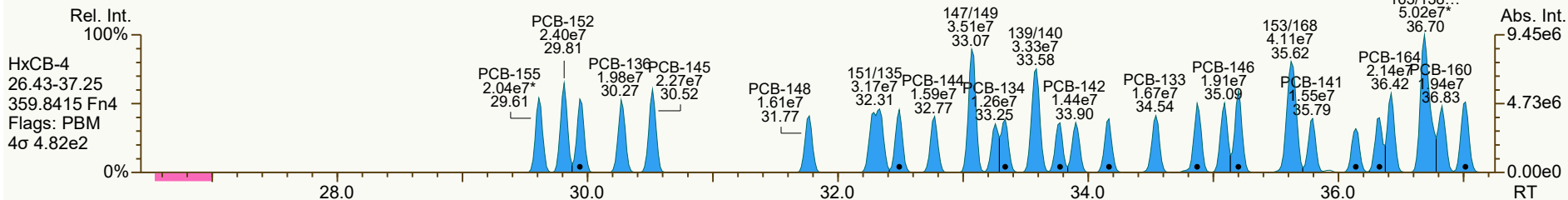
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 0285, 2628 scc: 977-098

Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 15:05 Printed: 20-Sep-2024 11:00 Page 12 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

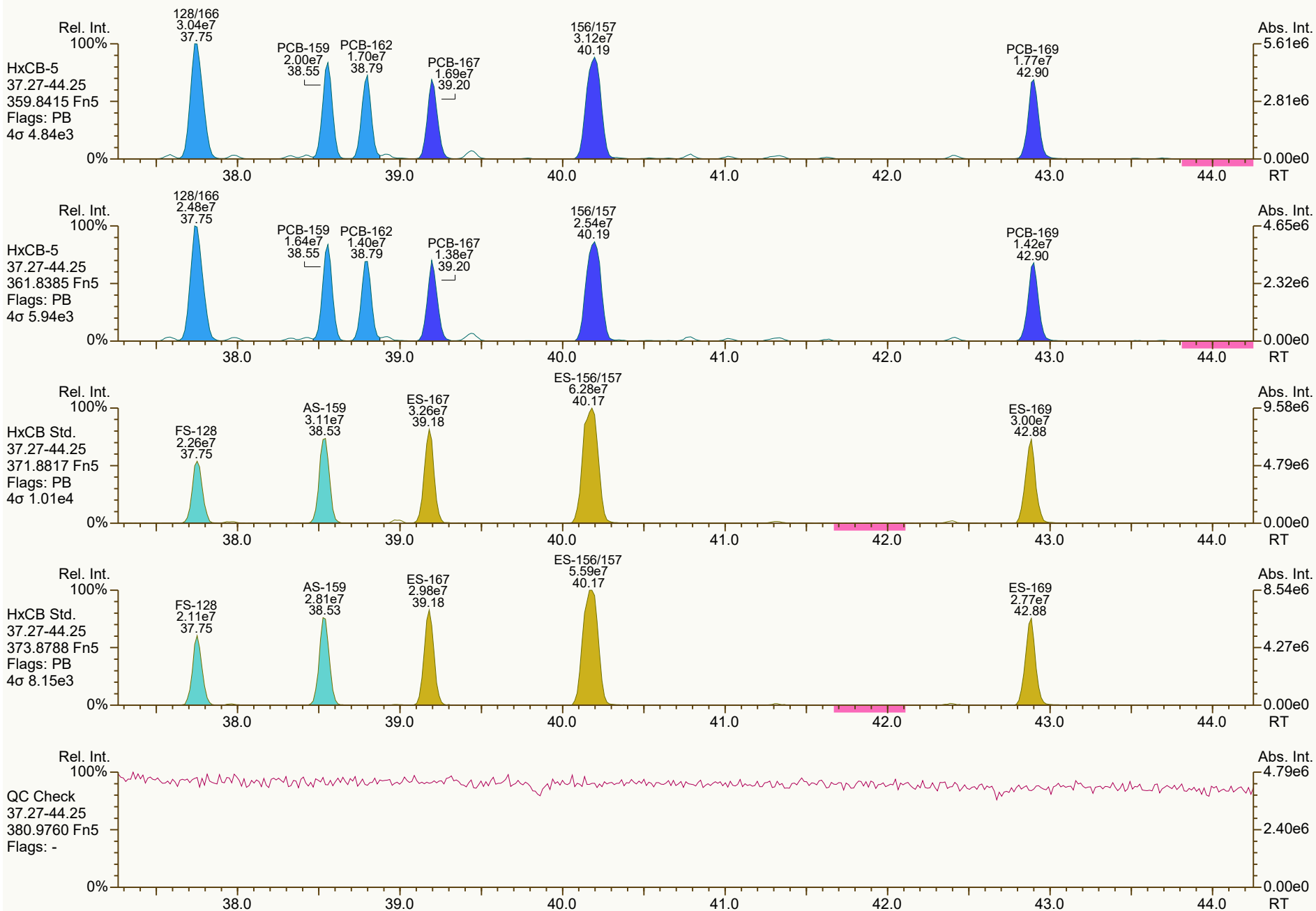
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User: RAB Datafile: 240917S04



SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



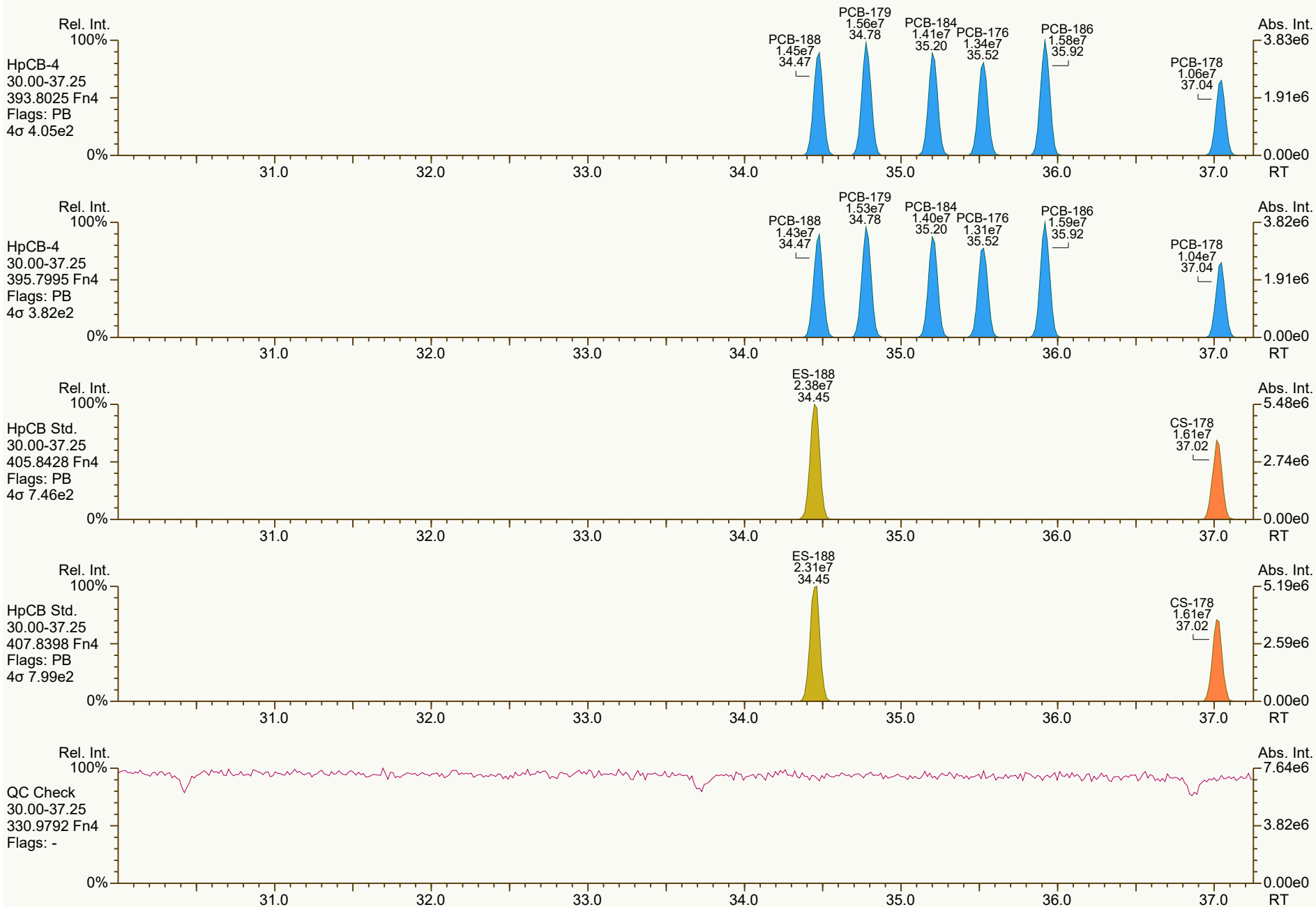
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Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 15:05 Printed: 20-Sep-2024 11:01 Page 14 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

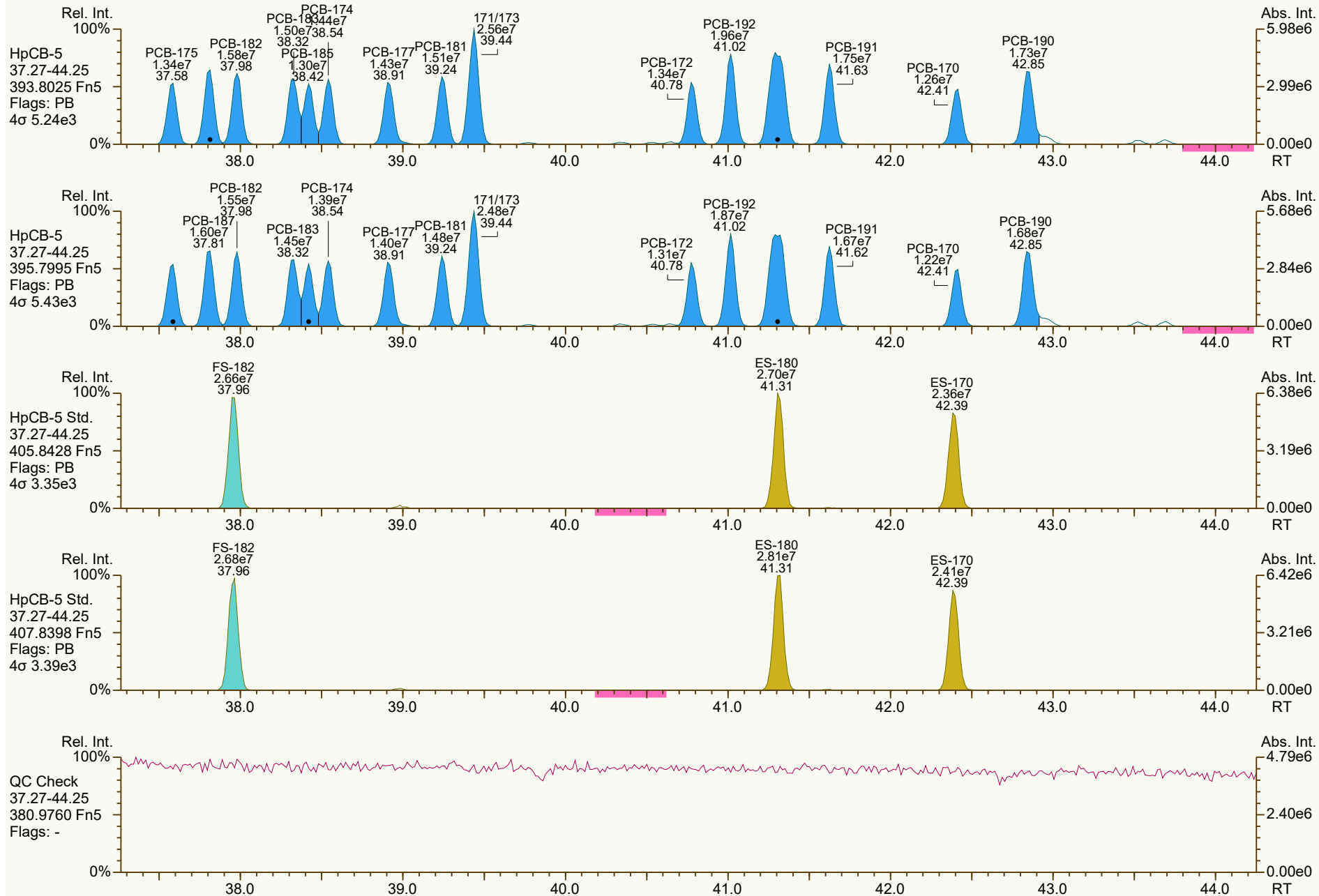
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SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



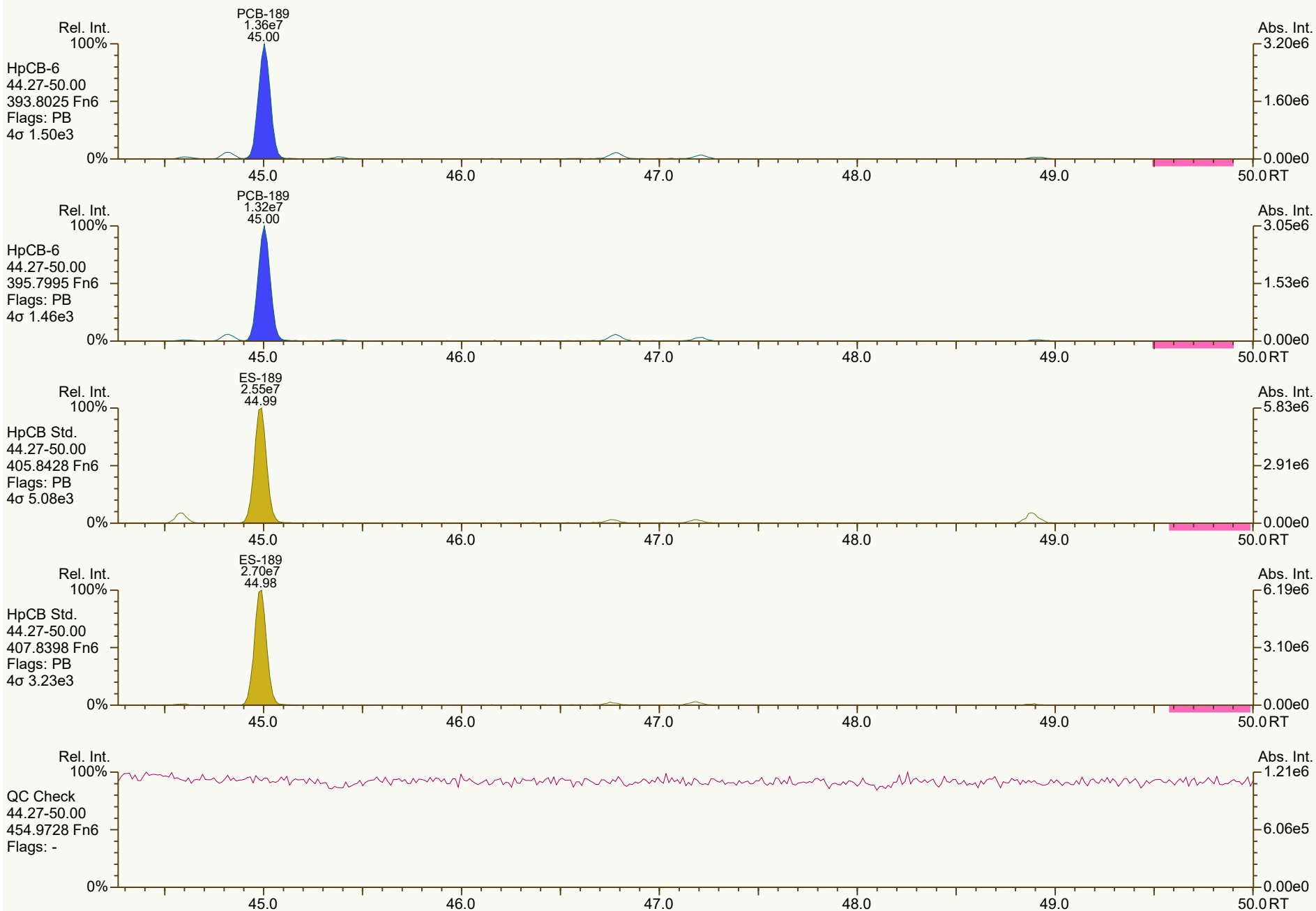
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7444, 0083 scc: 977-098

Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 15:05 Printed: 20-Sep-2024 11:01 Page 16 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



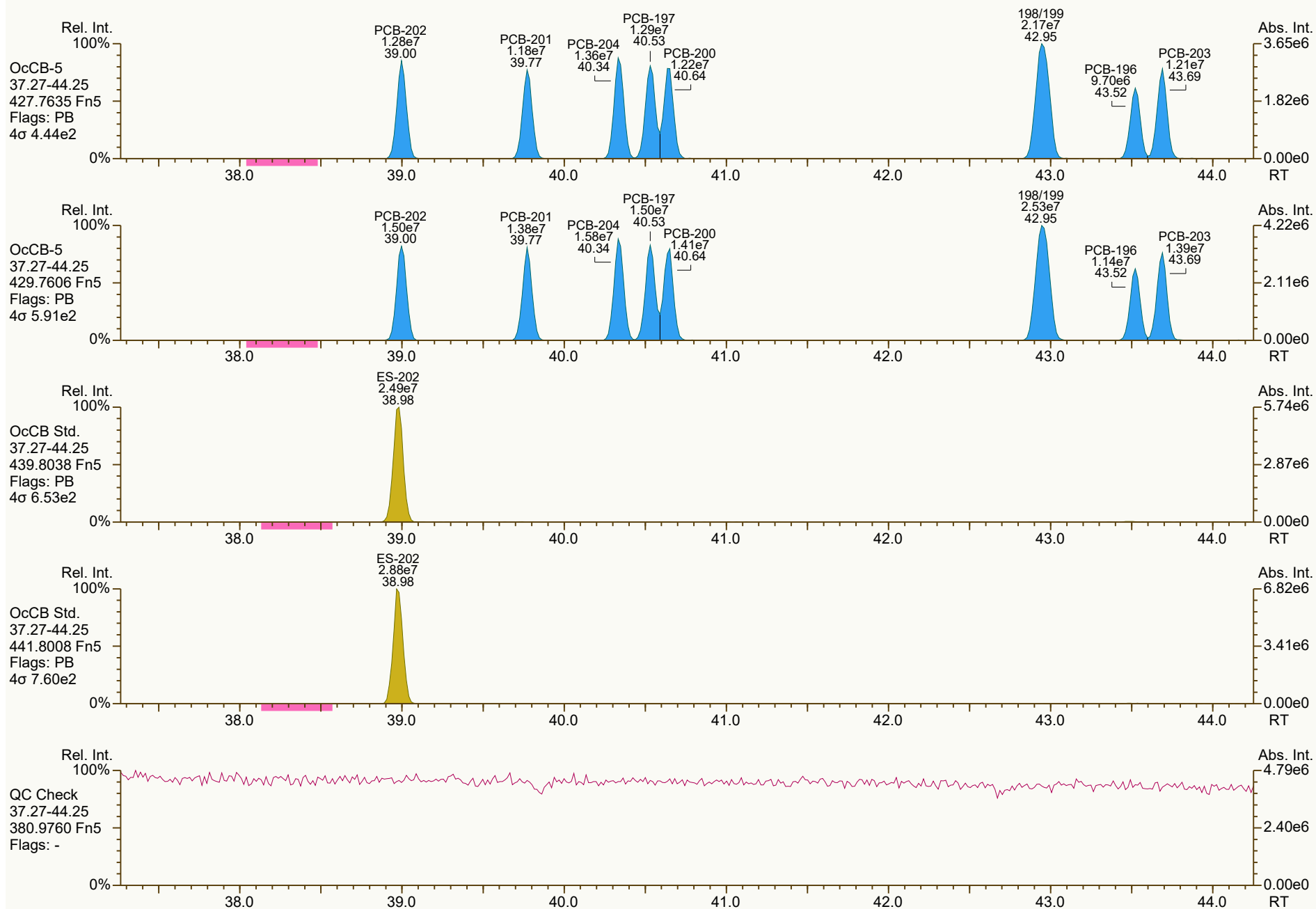
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 8049, 1895 scc: 977-098

Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 15:05 Printed: 20-Sep-2024 11:01 Page 17 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



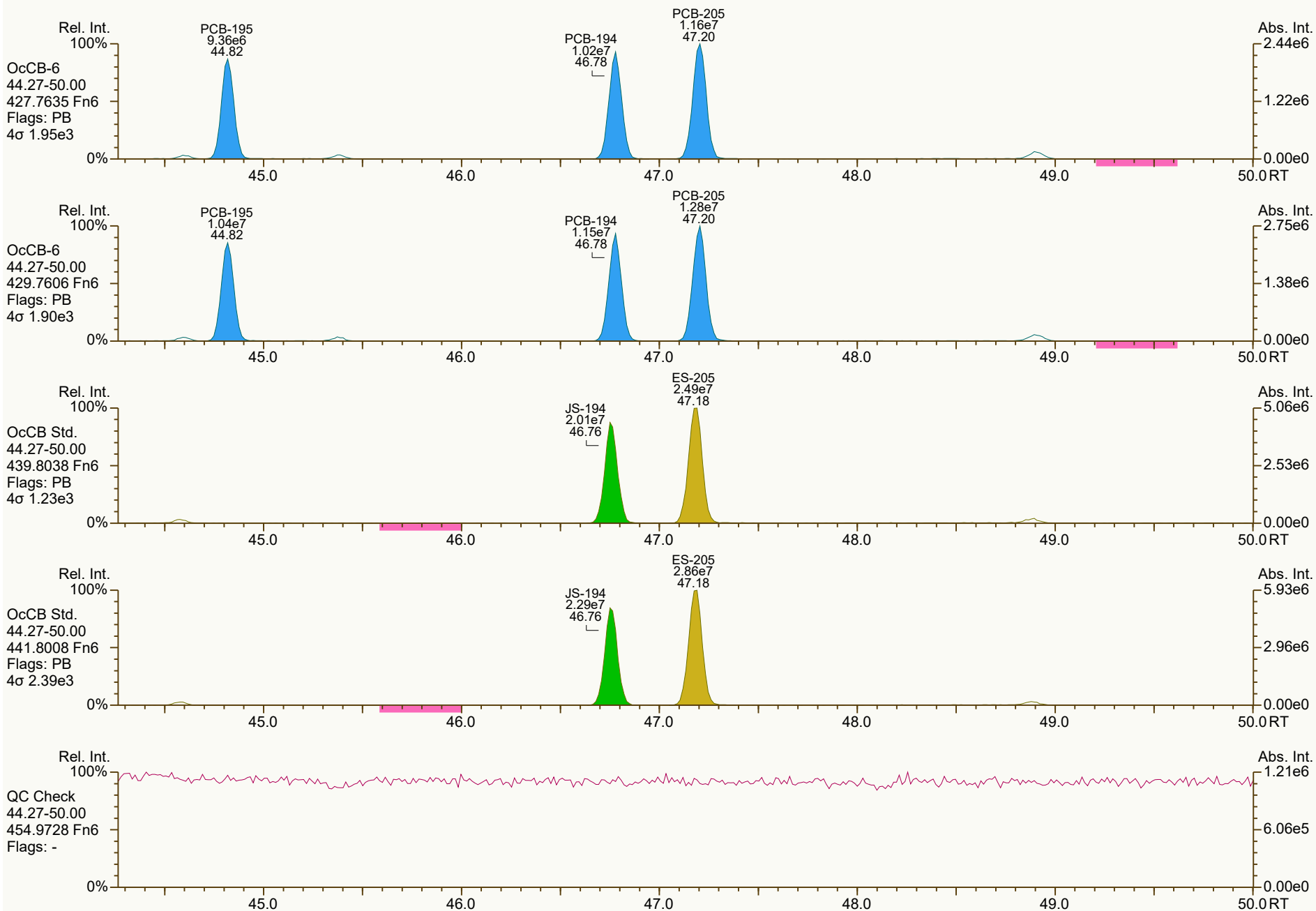
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Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 15:05 Printed: 20-Sep-2024 11:01 Page 18 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



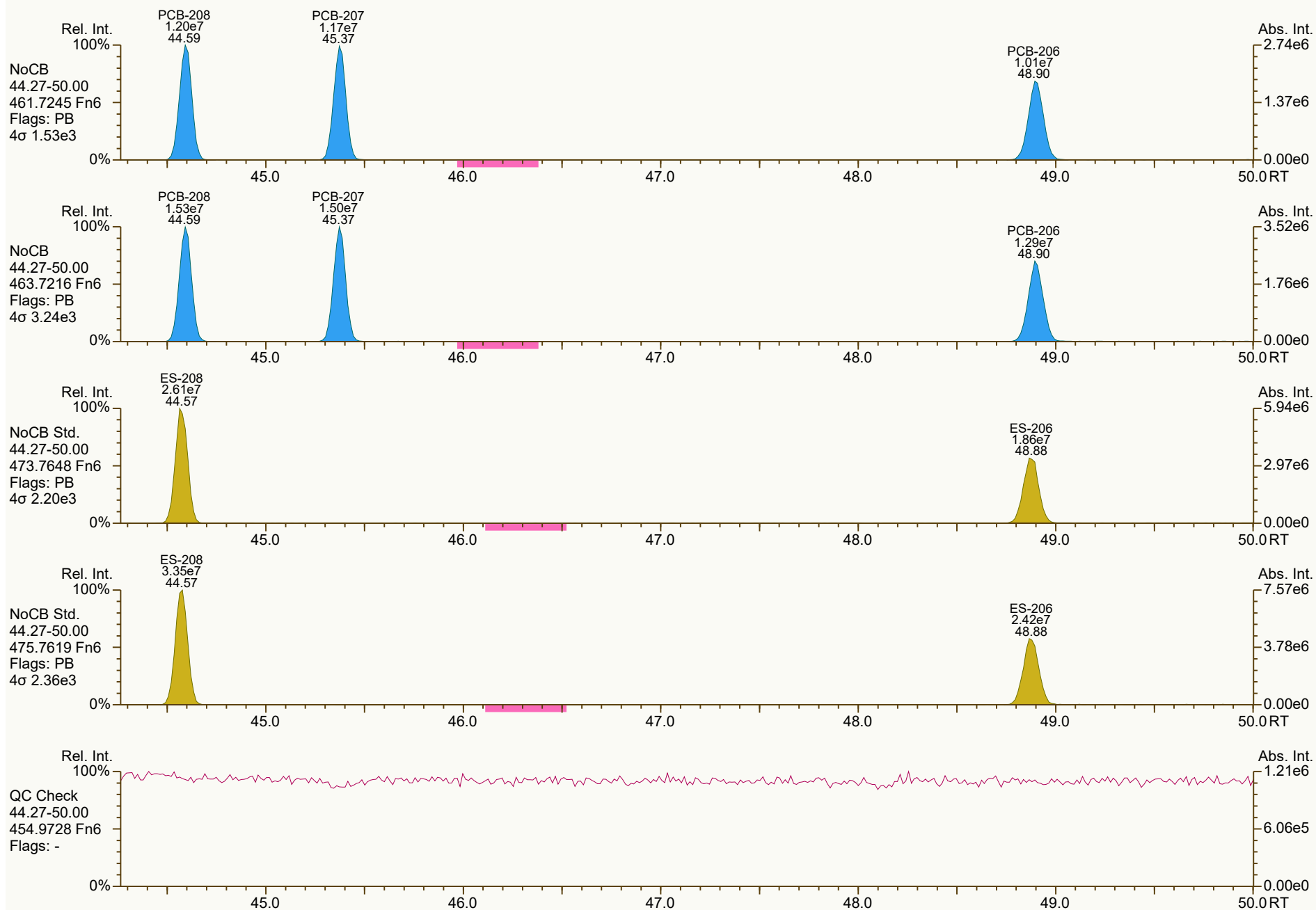
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Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 15:05 Printed: 20-Sep-2024 11:01 Page 19 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



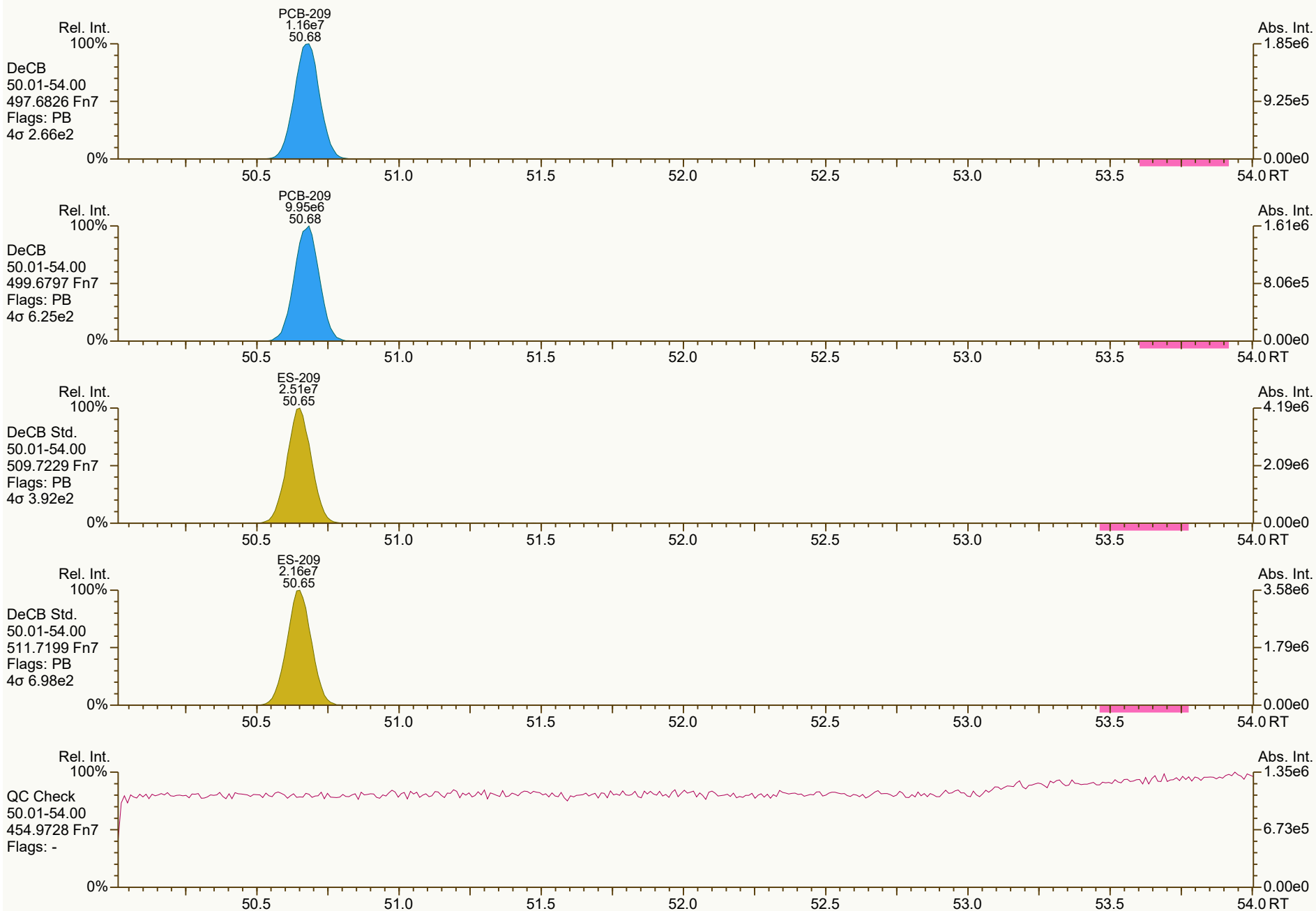
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Peak annotation: Areas, Centroids
PKD: 17-Sep-2024 15:05 Printed: 20-Sep-2024 11:01 Page 20 of 21

SGS ID: CS3_240917_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 17-Sep-2024 14:05:21
User: RAB Datafile: 240917S04



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Peak annotation: Areas, Centroids
Revised: 17-Sep-2024 15:03 (PSW) Printed: 20-Sep-2024 11:01 Page 21 of 21

PCB QC Summary

SGS North America

Printed: 27 Sep 2024 10:06

Lab ID: CS3_240918_PCB_SB

Acquired: 18-SEP-2024 13:09

ICAL: MM4-PCB_03SEP2024

Datafile: 240918S03

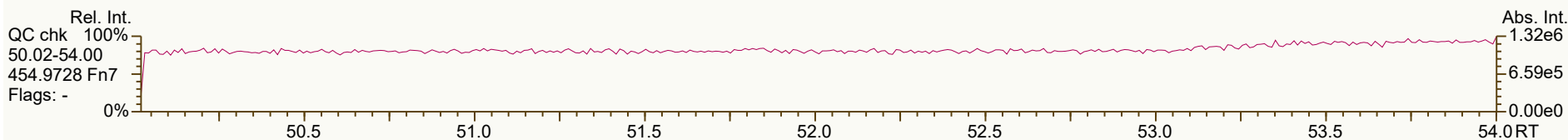
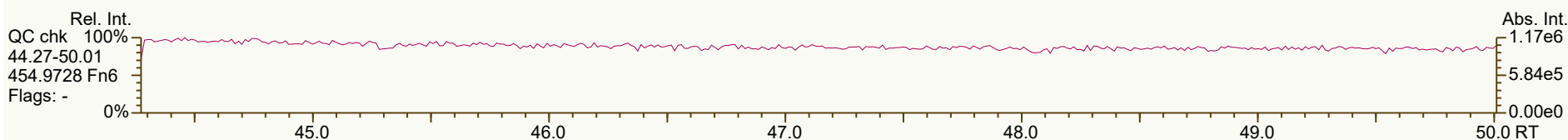
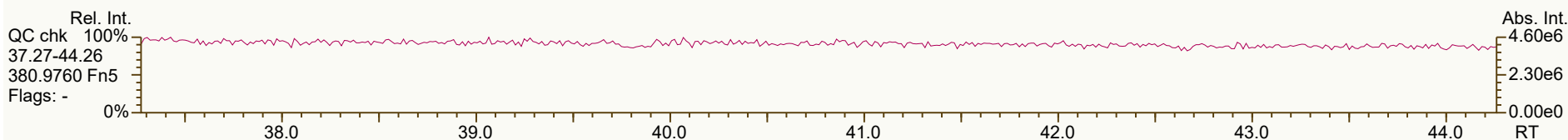
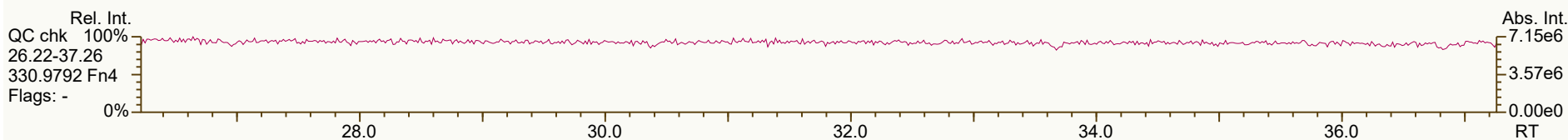
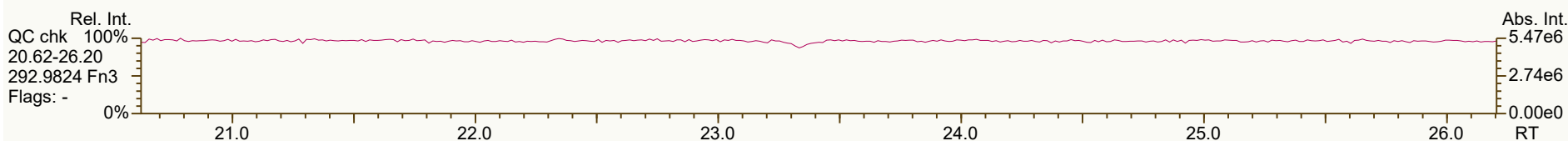
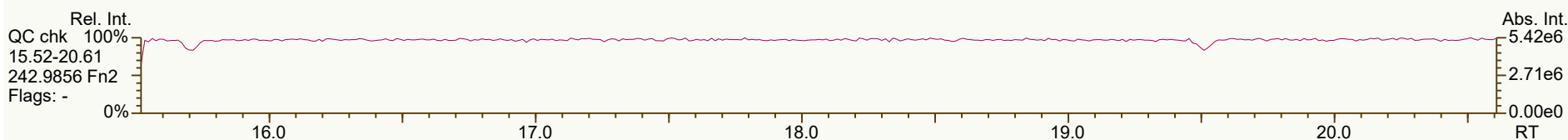
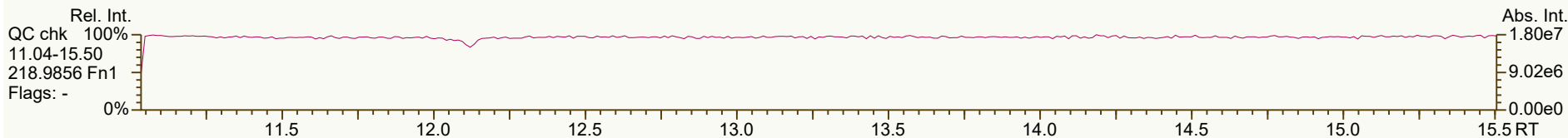
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|-------------------------|-------|----------|--------|------|------|-----------|
| PCB-77 33'44'-TeCB | 32.05 | 2.19E+07 | 0.79 Y | 1.45 | 1.20 | -17.2% |
| PCB-81 344'5'-TeCB | 31.57 | 2.22E+07 | 0.80 Y | 1.46 | 1.19 | -18.4% |
| PCB-105 233'44'-PeCB | 35.01 | 1.83E+07 | 0.62 Y | 1.18 | 1.04 | -11.7% |
| PCB-114 2344'5'-PeCB | 34.46 | 1.86E+07 | 0.64 Y | 1.14 | 1.02 | -11.1% |
| PCB-118 23'44'5'-PeCB | 34.00 | 1.92E+07 | 0.63 Y | 1.18 | 1.03 | -13.1% |
| PCB-123 23'44'5'-PeCB | 33.72 | 1.82E+07 | 0.63 Y | 1.19 | 1.02 | -14.1% |
| PCB-126 33'44'5'-PeCB | 37.61 | 1.79E+07 | 0.63 Y | 1.35 | 1.11 | -18.2% |
| PCB-156/157 ...-HxCB | 40.14 | 3.38E+07 | 1.22 Y | 1.23 | 1.08 | -12.3% |
| PCB-167 23'44'55'-HxCB | 39.15 | 1.74E+07 | 1.22 Y | 1.22 | 1.05 | -13.9% |
| PCB-169 33'44'55'-HxCB | 42.85 | 1.67E+07 | 1.21 Y | 1.23 | 1.05 | -15.3% |
| PCB-189 233'44'55'-HpCB | 44.95 | 1.62E+07 | 1.05 Y | 1.31 | 1.12 | -14.6% |
| PCB-209 DeCB | 50.61 | 1.20E+07 | 1.16 Y | 1.08 | 1.02 | -5.5% |
| ES PCB-1 | 11.44 | 4.88E+07 | 3.06 Y | 1.09 | 1.06 | -2.0% |
| ES PCB-3 | 13.66 | 4.77E+07 | 3.08 Y | 1.06 | 1.04 | -1.8% |
| ES PCB-4 | 13.91 | 3.26E+07 | 1.52 Y | 0.52 | 0.71 | 37.3% |
| ES PCB-15 | 19.51 | 4.84E+07 | 1.51 Y | 1.11 | 1.06 | -5.0% |
| ES PCB-19 | 16.93 | 3.28E+07 | 1.04 Y | 0.54 | 0.72 | 32.7% |
| ES PCB-37 | 25.76 | 4.05E+07 | 1.00 Y | 1.71 | 1.26 | -26.2% |
| ES PCB-54 | 19.79 | 2.99E+07 | 0.82 Y | 0.78 | 0.93 | 19.8% |
| ES PCB-77 | 32.04 | 3.65E+07 | 0.69 Y | 1.53 | 1.14 | -25.6% |
| ES PCB-81 | 31.55 | 3.73E+07 | 0.69 Y | 1.55 | 1.16 | -25.3% |
| ES PCB-104 | 24.67 | 2.81E+07 | 1.57 Y | 0.74 | 0.97 | 29.9% |
| ES PCB-105 | 34.99 | 3.51E+07 | 1.46 Y | 1.31 | 1.21 | -7.7% |
| ES PCB-114 | 34.44 | 3.66E+07 | 1.50 Y | 1.34 | 1.26 | -6.2% |
| ES PCB-118 | 33.98 | 3.74E+07 | 1.52 Y | 1.35 | 1.29 | -4.7% |
| ES PCB-123 | 33.70 | 3.55E+07 | 1.48 Y | 1.29 | 1.22 | -5.2% |
| ES PCB-126 | 37.59 | 3.24E+07 | 1.40 Y | 1.59 | 1.11 | -30.1% |
| ES PCB-153 | 35.54 | 2.67E+07 | 1.16 Y | 1.10 | 1.09 | -0.7% |
| ES PCB-155 | 29.55 | 3.51E+07 | 1.17 Y | 1.38 | 1.43 | 4.2% |
| ES PCB-156/157 | 40.12 | 6.27E+07 | 1.13 Y | 1.62 | 1.28 | -20.9% |
| ES PCB-167 | 39.13 | 3.33E+07 | 1.10 Y | 1.70 | 1.36 | -20.0% |
| ES PCB-169 | 42.83 | 3.20E+07 | 1.12 Y | 1.55 | 1.31 | -15.7% |
| ES PCB-170 | 42.34 | 2.36E+07 | 0.96 Y | 1.06 | 1.06 | 0.7% |
| ES PCB-180 | 41.26 | 2.80E+07 | 0.95 Y | 1.30 | 1.27 | -2.6% |
| ES PCB-188 | 34.40 | 2.20E+07 | 1.01 Y | 0.63 | 0.90 | 43.9% |
| ES PCB-189 | 44.93 | 2.90E+07 | 0.95 Y | 1.71 | 1.31 | -23.2% |
| ES PCB-202 | 38.93 | 2.66E+07 | 0.90 Y | 0.96 | 1.09 | 13.6% |
| ES PCB-205 | 47.13 | 2.78E+07 | 0.87 Y | 1.23 | 1.26 | 1.9% |
| ES PCB-206 | 48.82 | 2.12E+07 | 0.79 Y | 0.84 | 0.96 | 13.8% |
| ES PCB-208 | 44.52 | 3.04E+07 | 0.78 Y | 1.25 | 1.38 | 9.9% |
| ES PCB-209 | 50.58 | 2.36E+07 | 1.18 Y | 0.94 | 1.07 | 13.3% |

| PCB QC Summary | | SGS North America | | | Printed: 27 Sep 2024 10:06 | | |
|---------------------------------------|-------------------|---------------------|-------------------|-------------------------|----------------------------|-------------------|--|
| Lab ID: | CS3_240918_PCB_SB | | | | | | |
| Acquired: | 18-SEP-2024 13:09 | | | ICAL: MM4-PCB_03SEP2024 | | | |
| Datafile: | 240918S03 | | | | | | |
| Name | RT | Response | RA | ICAL | RRF | Deviation | |
| SS PCB-28 | 22.22 | 4.39E+07 | 0.99 Y | 1.01 | 1.09 | 7.0% | |
| SS PCB-111 | 32.02 | 3.59E+07 | 1.49 Y | 0.97 | 1.01 | 4.4% | |
| SS PCB-178 | 36.97 | 1.54E+07 | 0.98 Y | 0.74 | 0.70 | -5.6% | |
| | | | | | | | |
| CS PCB-28 | 22.22 | 4.39E+07 | 0.99 Y | 1.73 | 1.37 | -21.0% | |
| CS PCB-111 | 32.02 | 3.59E+07 | 1.49 Y | 1.25 | 1.24 | -1.1% | |
| CS PCB-178 | 36.97 | 1.54E+07 | 0.98 Y | 0.46 | 0.63 | 36.0% | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| JS PCB-9 | 15.83 | 4.58E+07 | 1.50 Y | | | | |
| JS PCB-52 | 23.83 | 3.22E+07 | 0.72 Y | | | | |
| JS PCB-101 | 29.75 | 2.90E+07 | 1.51 Y | | | | |
| JS PCB-138 | 36.61 | 2.45E+07 | 1.15 Y | | | | |
| JS PCB-194 | 46.70 | 2.21E+07 | 0.88 Y | | | | |
| | | | | | | | |
| | | | | | | | |
| PCB-1 2-MoCB | 11.46 | 2.95E+07 | 3.02 Y | 1.47 | 1.21 | -17.9% | |
| PCB-3 4-MoCB | 13.68 | 2.85E+07 | 2.97 Y | 1.45 | 1.19 | -18.0% | |
| PCB-4 22'-DiCB | 13.93 | 1.85E+07 | 1.53 Y | 1.30 | 1.13 | -12.6% | |
| PCB-15 44'-DiCB | 19.52 | 2.61E+07 | 1.49 Y | 1.31 | 1.08 | -17.7% | |
| PCB-19 22'6'-TrCB | 16.95 | 1.72E+07 | 1.02 Y | 1.16 | 1.05 | -10.1% | |
| PCB-37 344'-TrCB | 25.77 | 2.49E+07 | 1.07 Y | 1.43 | 1.23 | -14.0% | |
| PCB-54 22'66'-TeCB | 19.81 | 2.00E+07 | 0.82 Y | 1.52 | 1.34 | -12.2% | |
| PCB-104 22'466'-PeCB | 24.69 | 1.77E+07 | 0.62 Y | 1.46 | 1.26 | -13.9% | |
| PCB-155 22'44'66'-HxCB | 29.57 | 2.16E+07 | 1.27 Y | 1.36 | 1.23 | -9.3% | |
| PCB-188 22'34'566'-HpCB | 34.43 | 1.45E+07 | 1.03 Y | 1.55 | 1.32 | -14.7% | |
| PCB-202 22'33'55'66'-OcCB | 38.95 | 1.51E+07 | 0.85 Y | 1.32 | 1.13 | -14.2% | |
| PCB-205 233'44'55'6-OcCB | 47.15 | 1.35E+07 | 0.89 Y | 1.12 | 0.97 | -13.1% | |
| PCB-208 22'33'455'66'-NoCB | 44.54 | 1.57E+07 | 0.79 Y | 1.11 | 1.03 | -6.9% | |
| PCB-206 22'33'44'55'6-NoCB | 48.84 | 1.05E+07 | 0.80 Y | 1.04 | 0.99 | -4.1% | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| AS PCB-32 | 19.93 | 4.90E+07 | 1.05 Y | 0.77 | 1.07 | 39.0% | |
| AS PCB-97 | 30.69 | 2.50E+07 | 1.49 Y | 0.86 | 0.86 | -0.1% | |
| AS PCB-159 NR - CL 27Sep24 | 38.48 | 2.98E+07 | 1.09 Y | 1.57 | 1.22 | -22.4% | |

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 18-Sep-2024 13:09:58
User: RAB Datafile: 240918S03



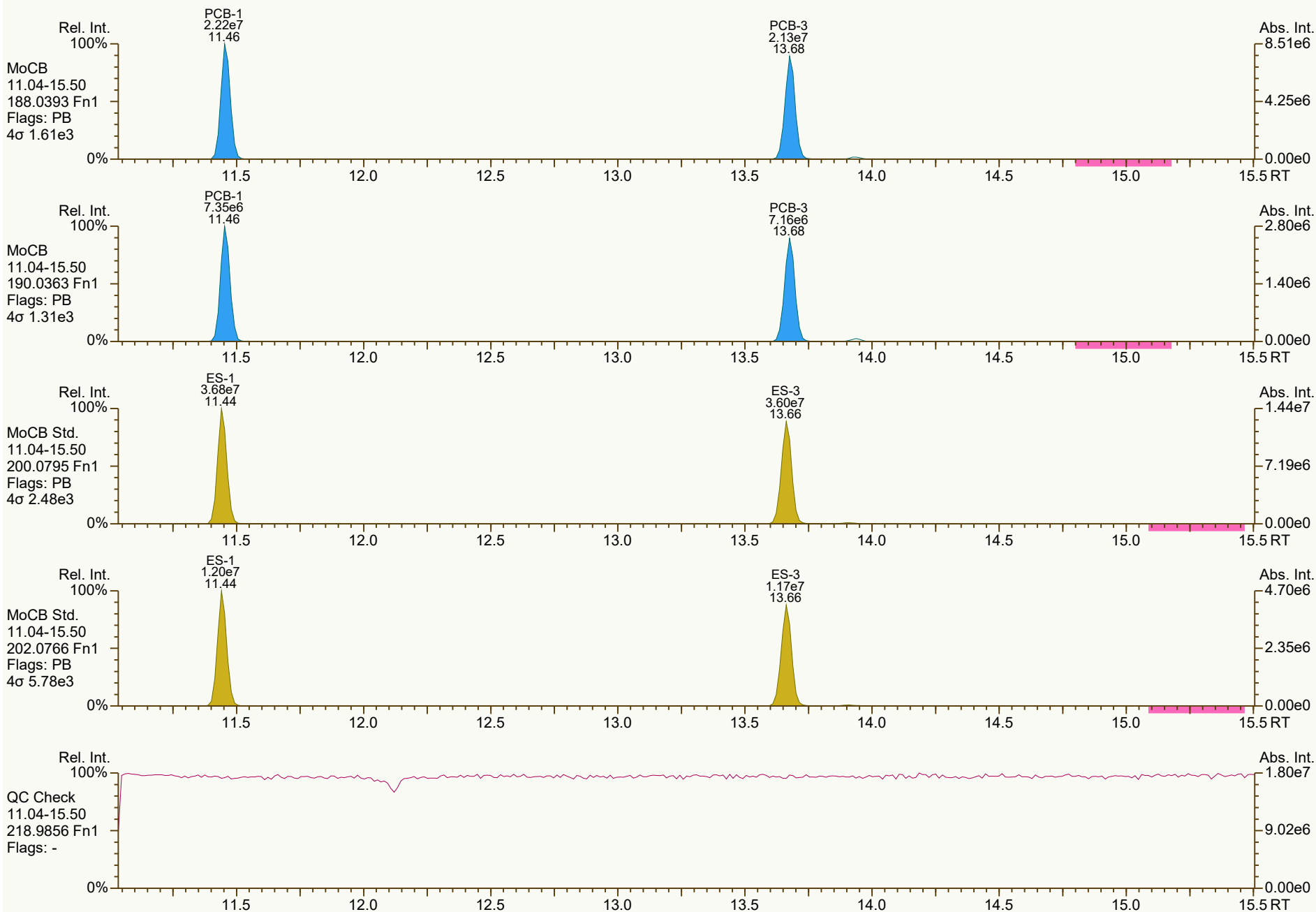
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q scc: 856-935

Peak annotation: Areas, Centroids
PKD: n/a Printed: 20-Sep-2024 11:03 Page 1 of 21

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 18-Sep-2024 13:09:58
User: RAB Datafile: 240918S03



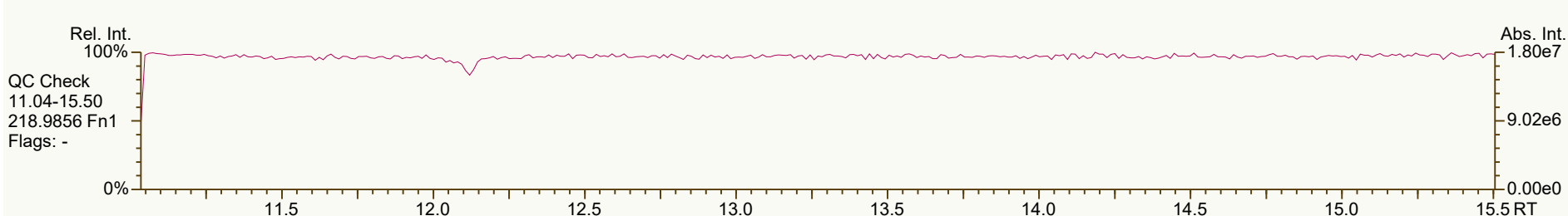
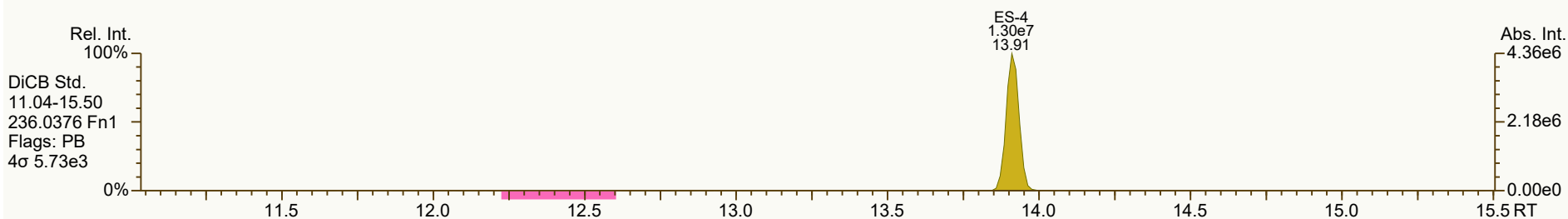
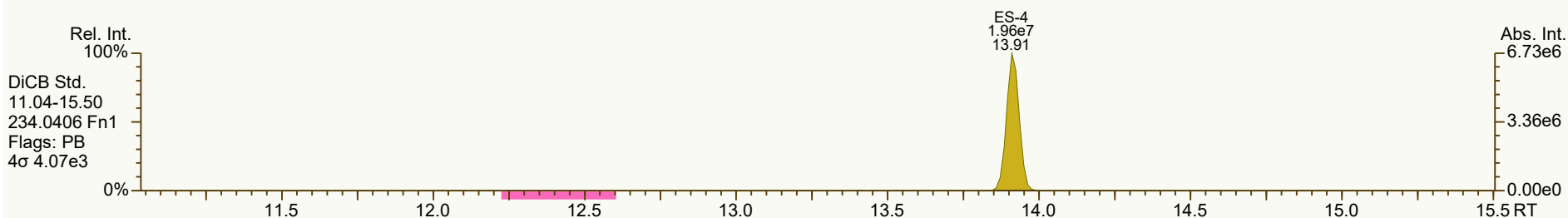
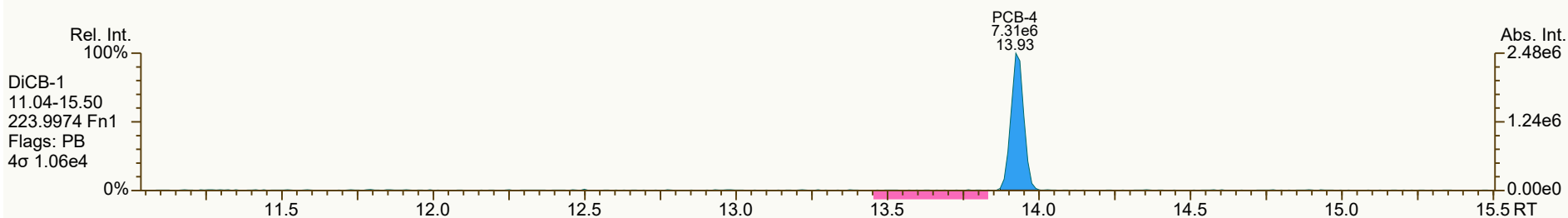
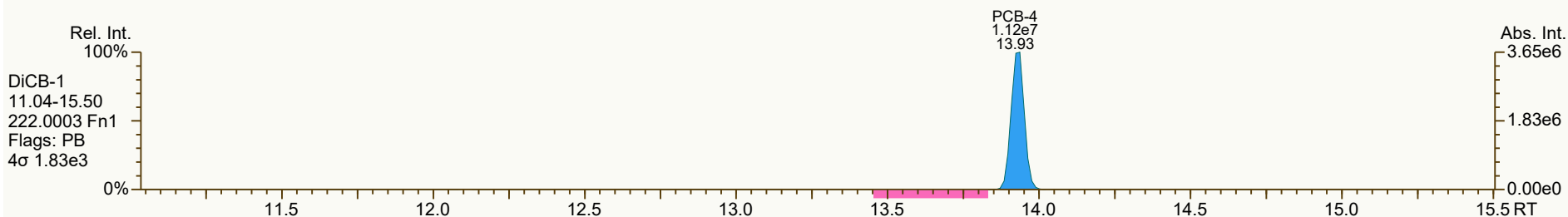
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6223, 6448 scc: 856-935

Peak annotation: Areas, Centroids
PKD: 18-Sep-2024 14:17 Printed: 20-Sep-2024 11:03 Page 2 of 21

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 18-Sep-2024 13:09:58
User: RAB Datafile: 240918S03



SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 18-Sep-2024 13:09:58
User: RAB Datafile: 240918S03



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Peak annotation: Areas, Centroids
PKD: 18-Sep-2024 14:17 Printed: 20-Sep-2024 11:03 Page 4 of 21

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 18-Sep-2024 13:09:58
User: RAB Datafile: 240918S03



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Peak annotation: Areas, Centroids
PKD: 18-Sep-2024 14:17 Printed: 20-Sep-2024 11:04 Page 5 of 21

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 18-Sep-2024 13:09:58
User: RAB Datafile: 240918S03



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Peak annotation: Areas, Centroids
PKD: 18-Sep-2024 14:17 Printed: 20-Sep-2024 11:04 Page 6 of 21

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 18-Sep-2024 13:09:58
User: RAB Datafile: 240918S03



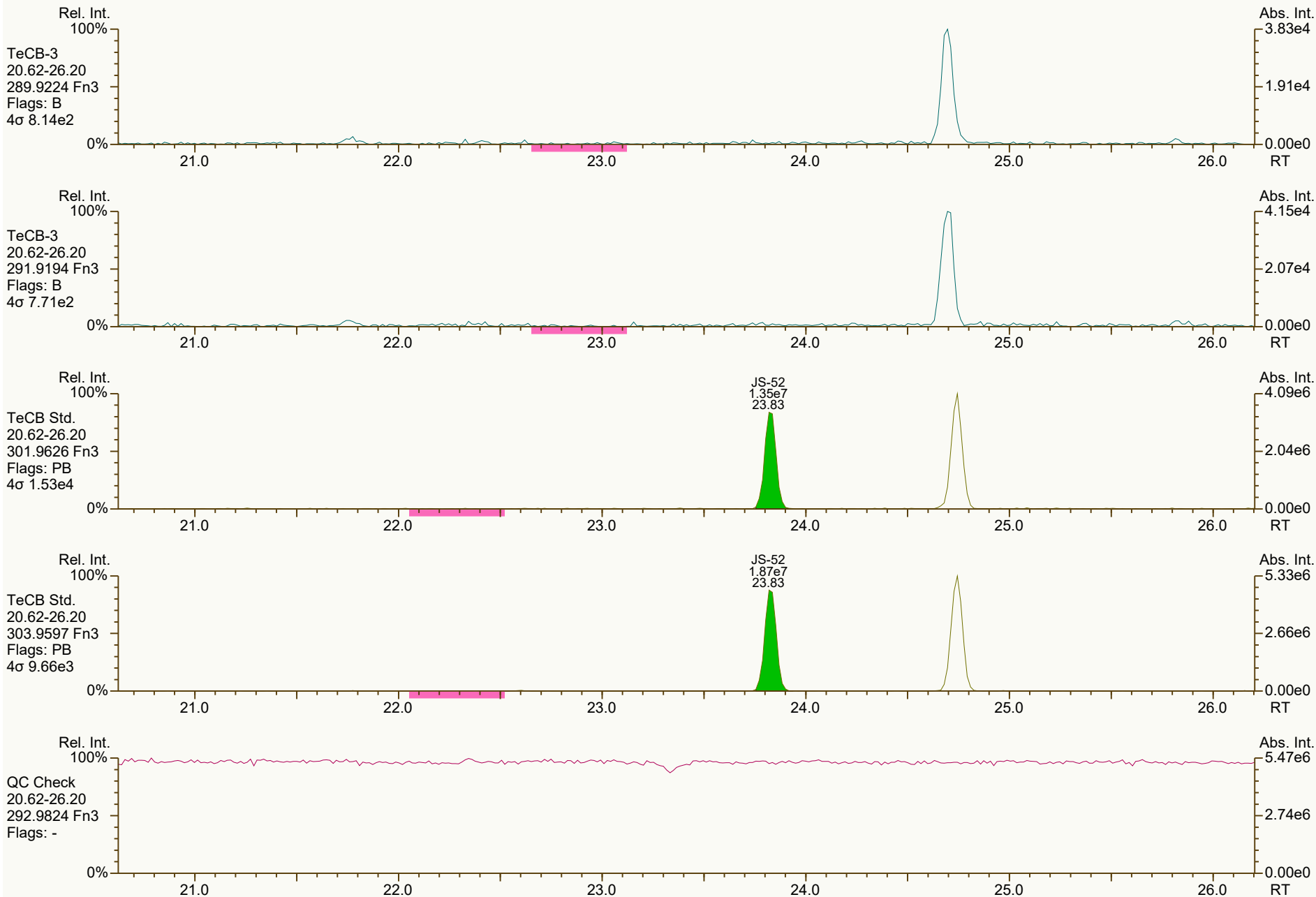
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Peak annotation: Areas, Centroids
PKD: 18-Sep-2024 14:17 Printed: 20-Sep-2024 11:04 Page 7 of 21

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 18-Sep-2024 13:09:58
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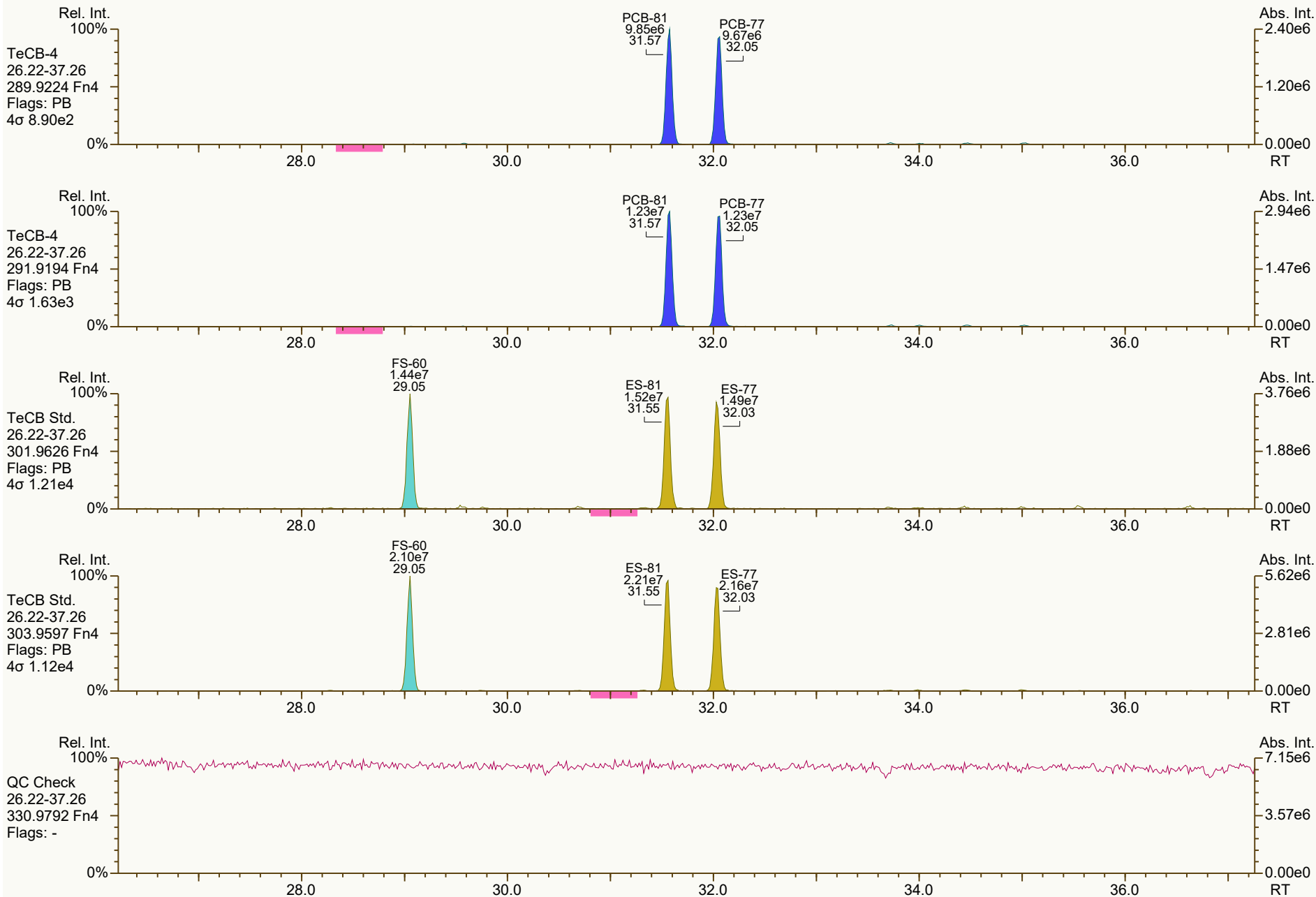
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Peak annotation: Areas, Centroids
PKD: 18-Sep-2024 14:17 Printed: 20-Sep-2024 11:04 Page 8 of 21

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 18-Sep-2024 13:09:58
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Peak annotation: Areas, Centroids
PKD: 18-Sep-2024 14:17 Printed: 20-Sep-2024 11:04 Page 9 of 21

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

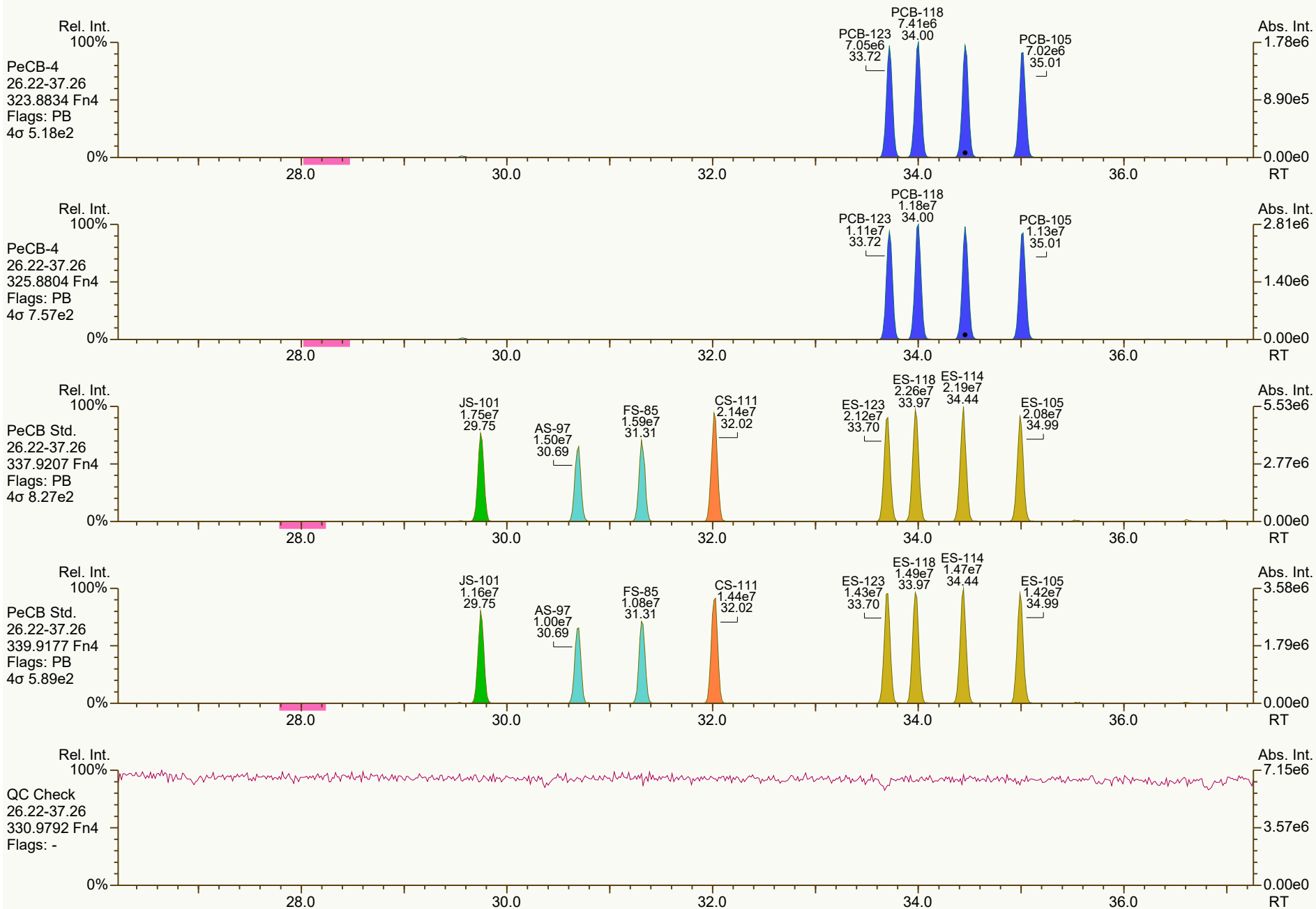
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SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

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Peak annotation: Areas, Centroids
PKD: 18-Sep-2024 14:17 Printed: 20-Sep-2024 11:04 Page 11 of 21

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 18-Sep-2024 13:09:58
User: RAB Datafile: 240918S03



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Peak annotation: Areas, Centroids
PKD: 18-Sep-2024 14:17 Printed: 20-Sep-2024 11:04 Page 12 of 21

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

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User: RAB Datafile: 240918S03



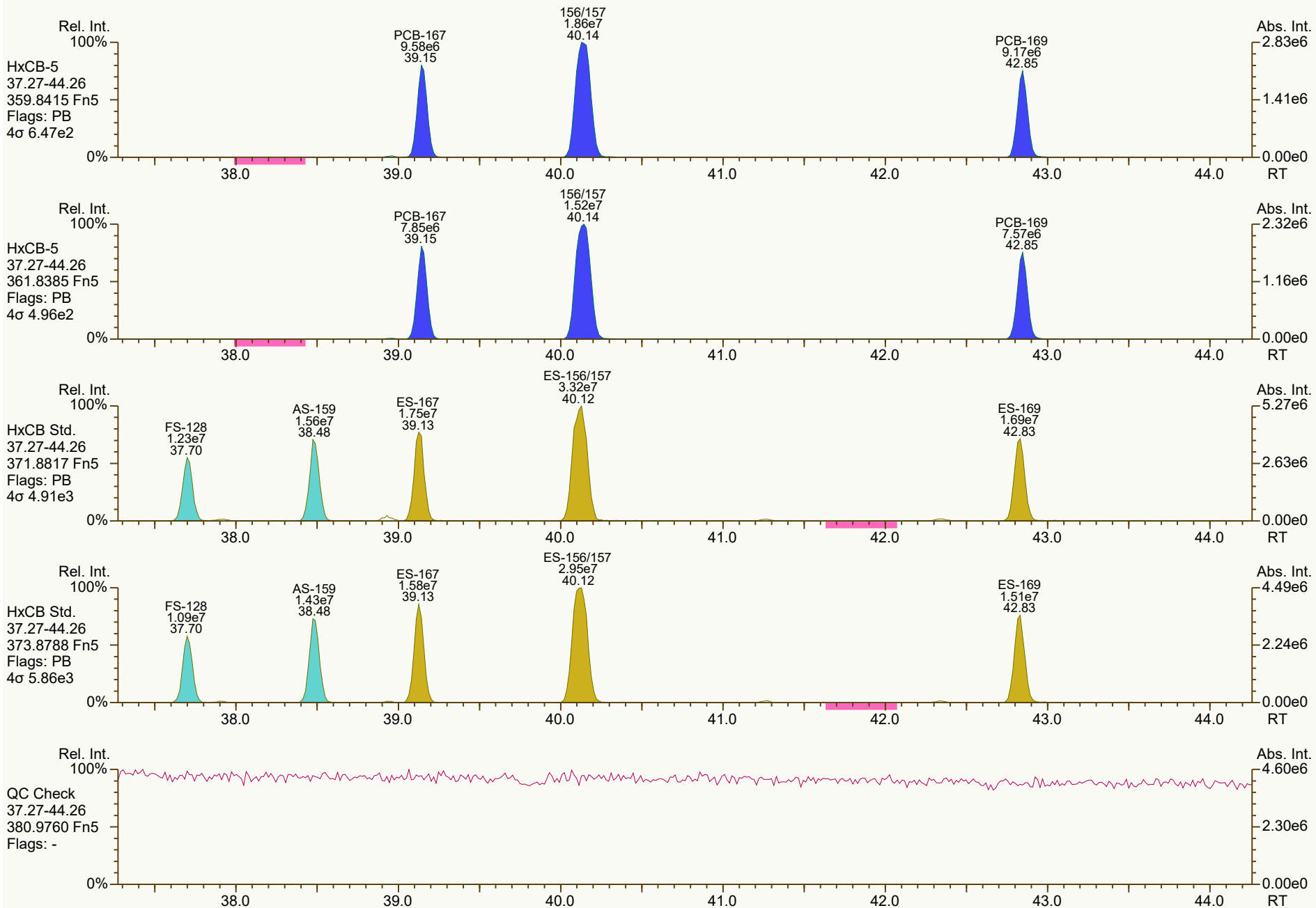
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Peak annotation: Areas, Centroids
PKD: 18-Sep-2024 14:17 Printed: 20-Sep-2024 11:04 Page 13 of 21

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 18-Sep-2024 13:09:58
User: RAB Datafile: 240918S03



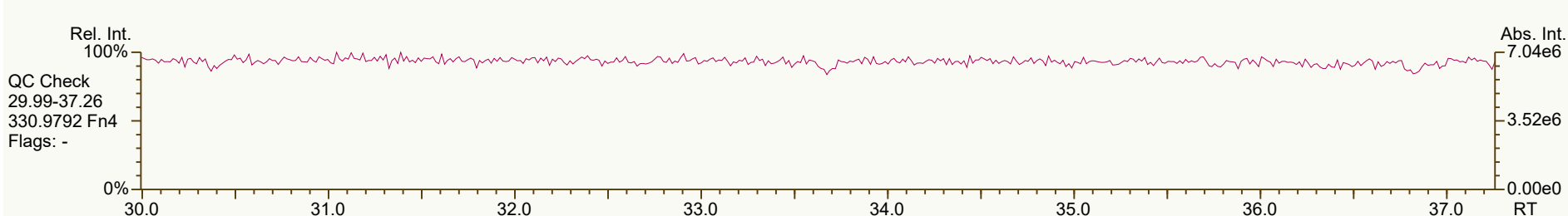
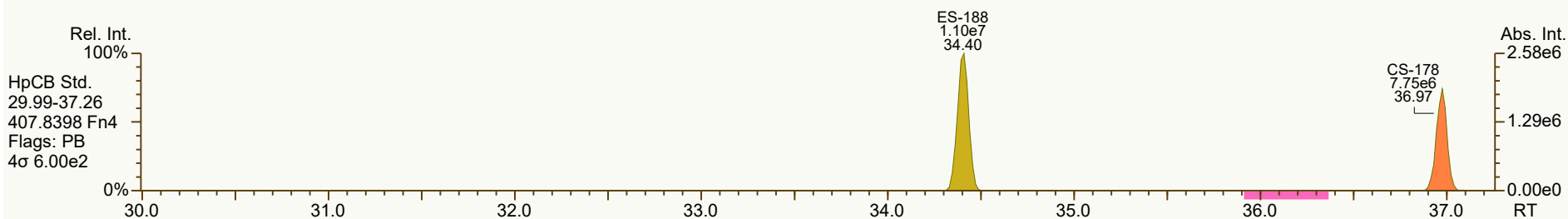
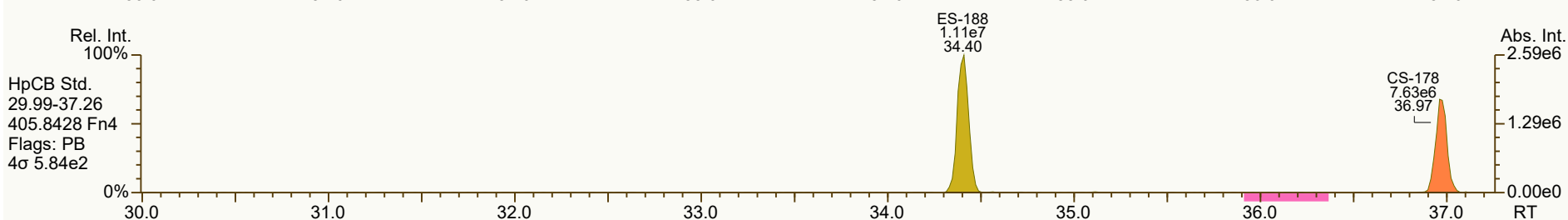
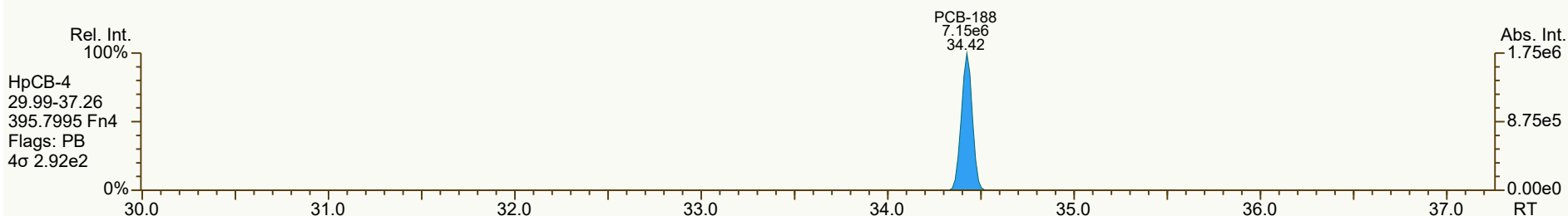
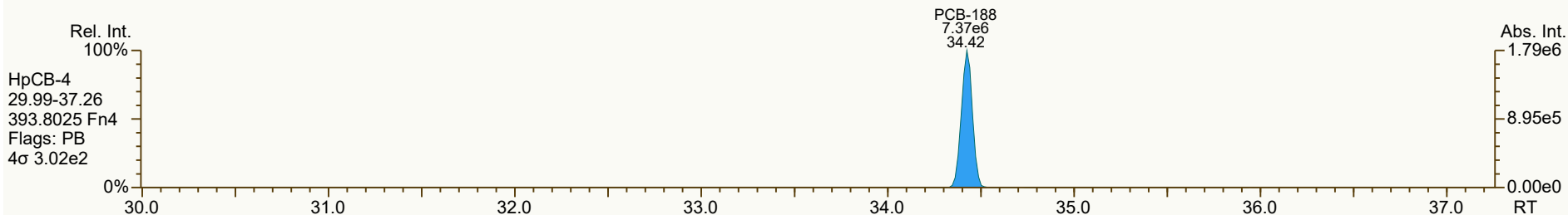
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 5588, 1059 scc: 856-935

Peak annotation: Areas, Centroids
PKD: 18-Sep-2024 14:17 Printed: 20-Sep-2024 11:04 Page 14 of 21

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

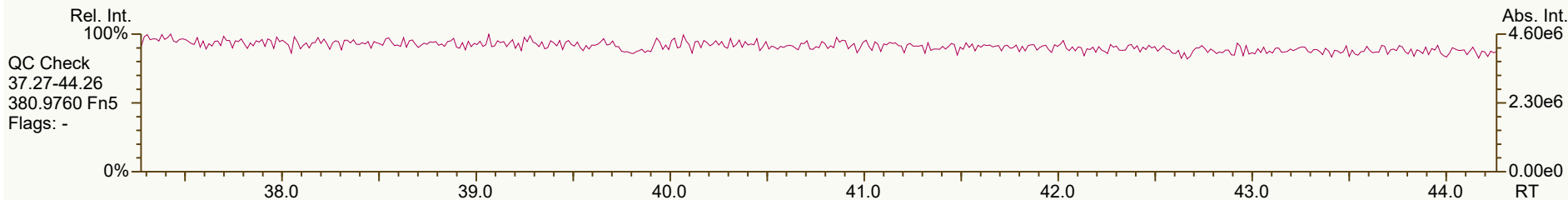
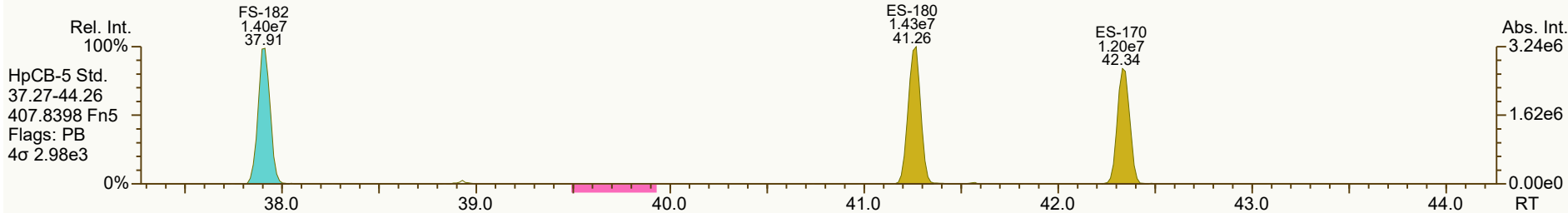
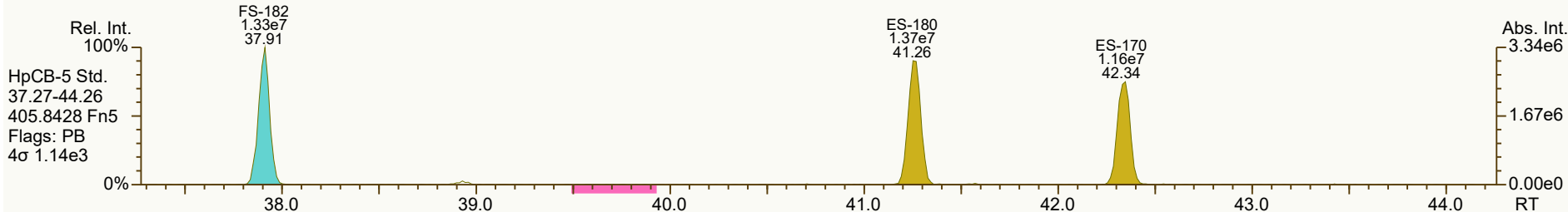
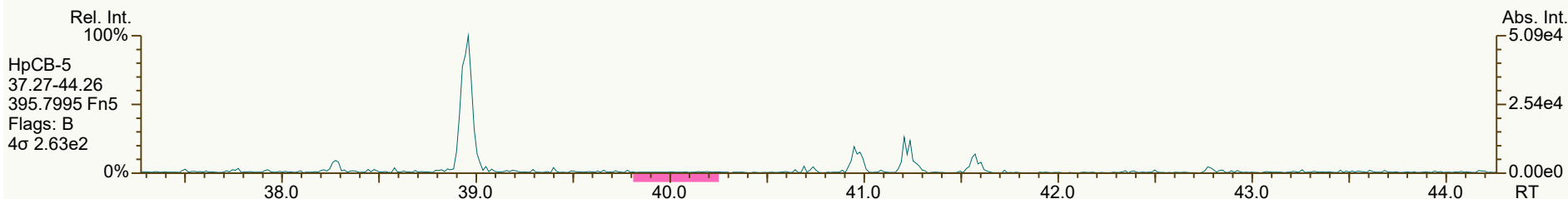
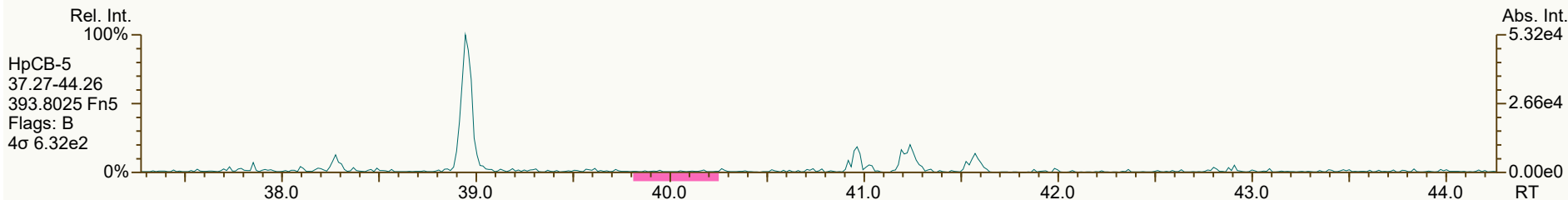
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SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

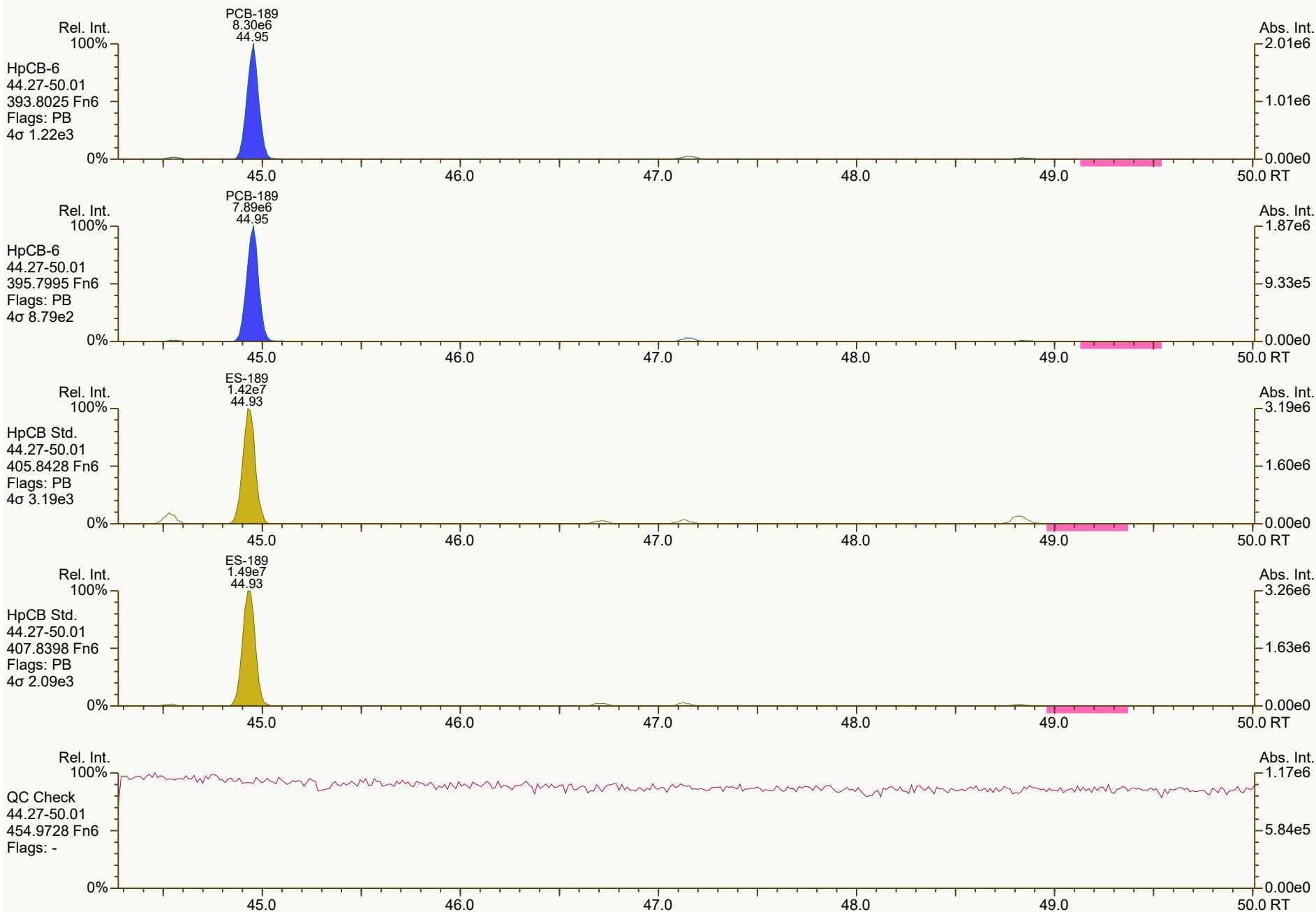
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SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

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User: RAB Datafile: 240918S03



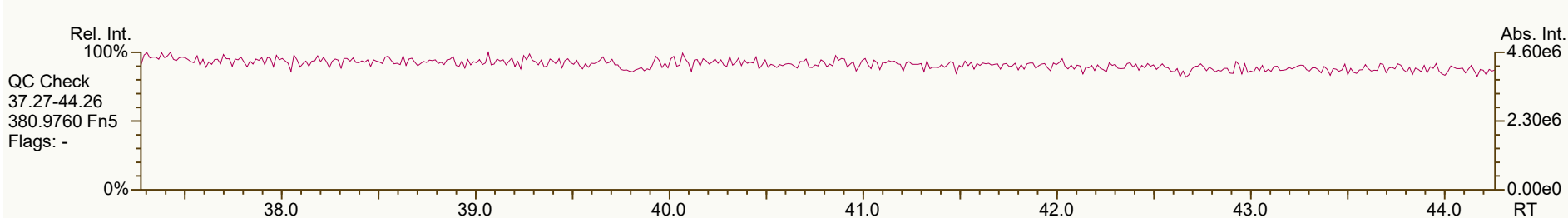
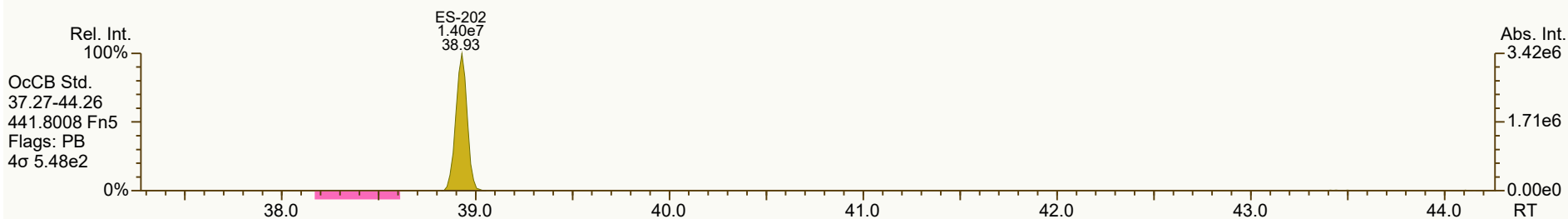
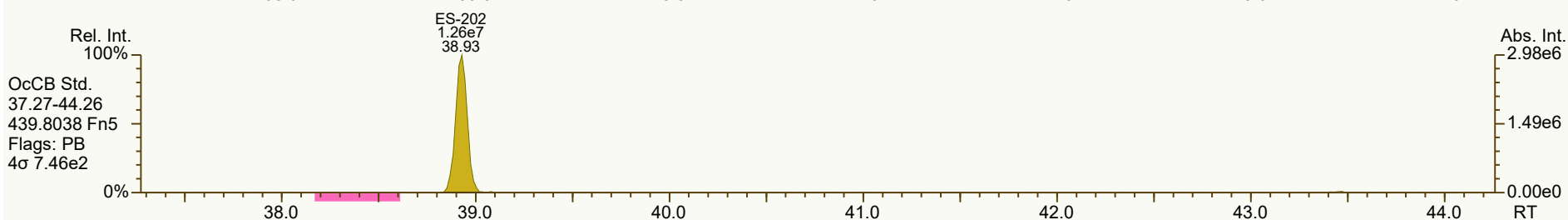
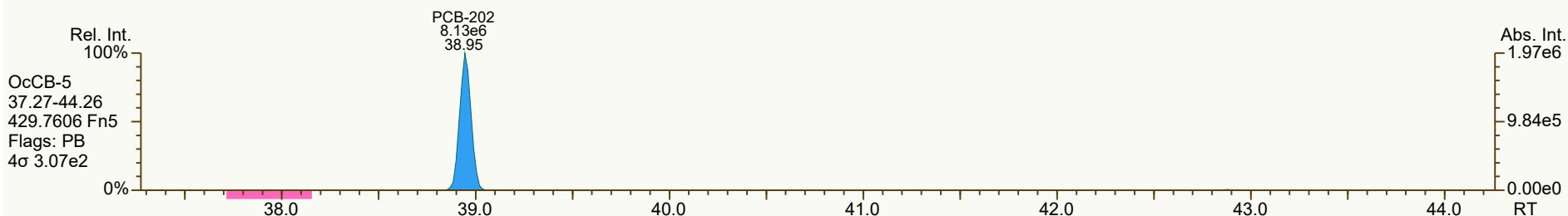
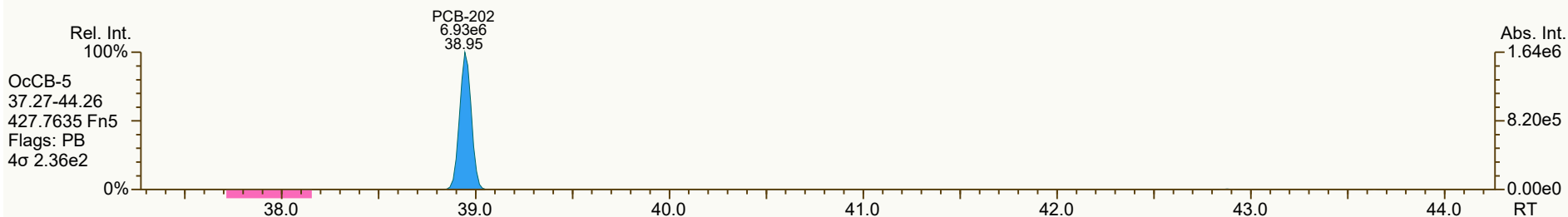
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Peak annotation: Areas, Centroids
PKD: 18-Sep-2024 14:17 Printed: 20-Sep-2024 11:04 Page 17 of 21

SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

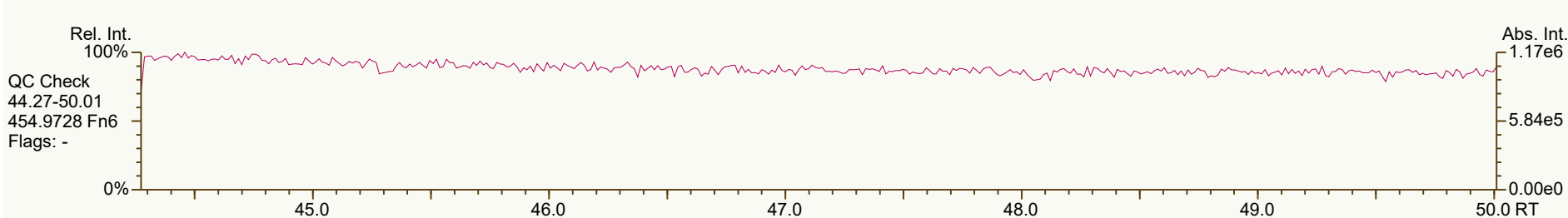
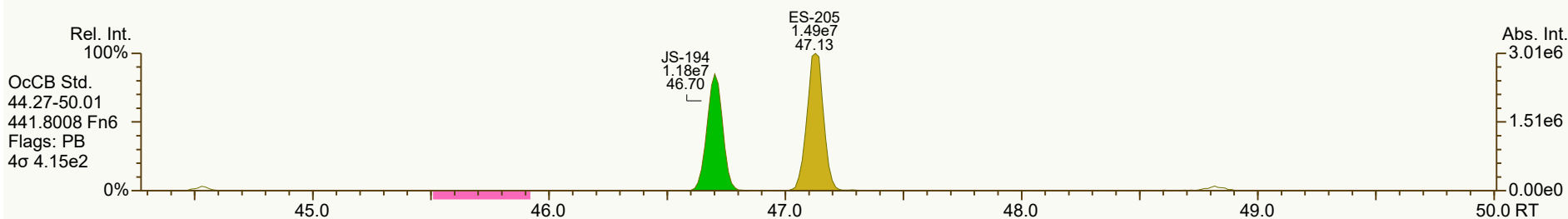
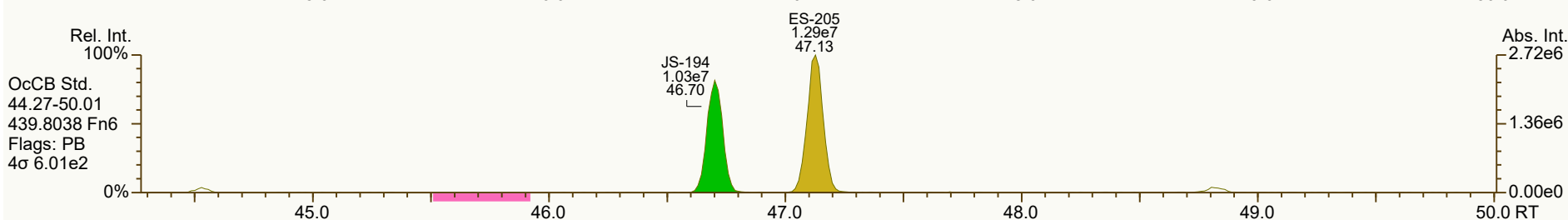
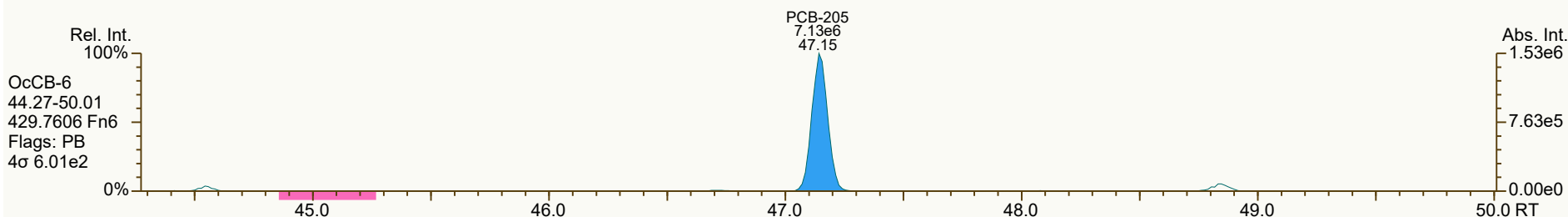
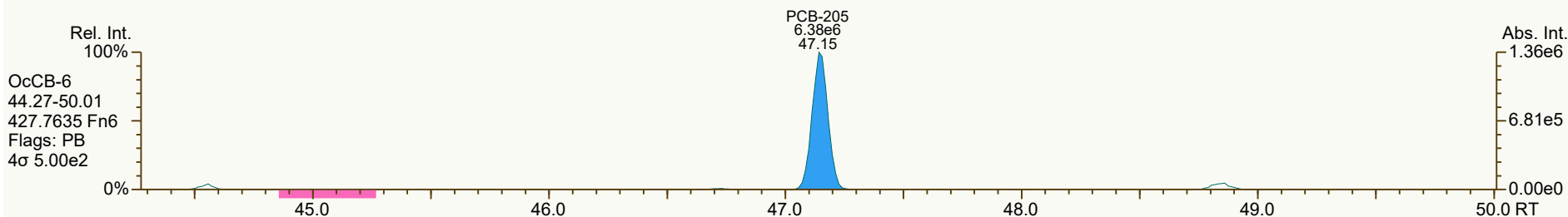
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User: RAB Datafile: 240918S03



SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

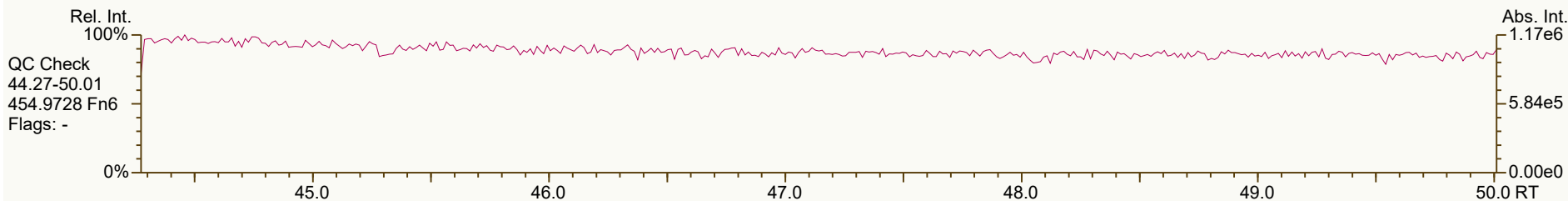
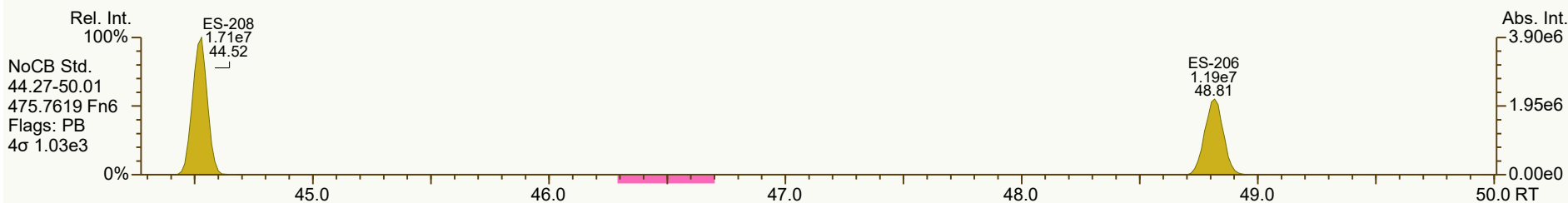
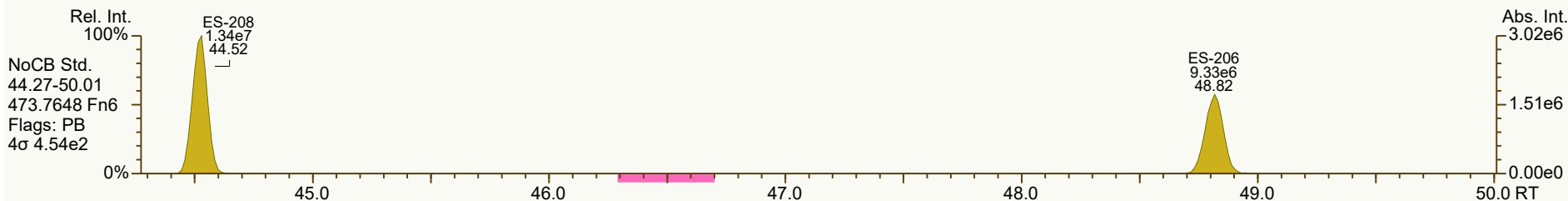
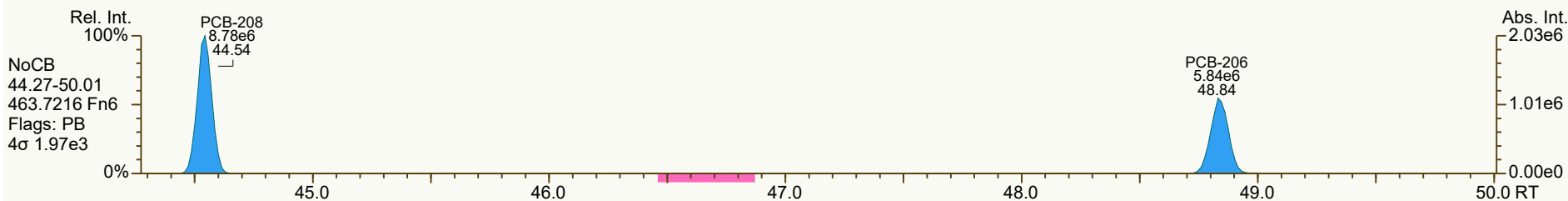
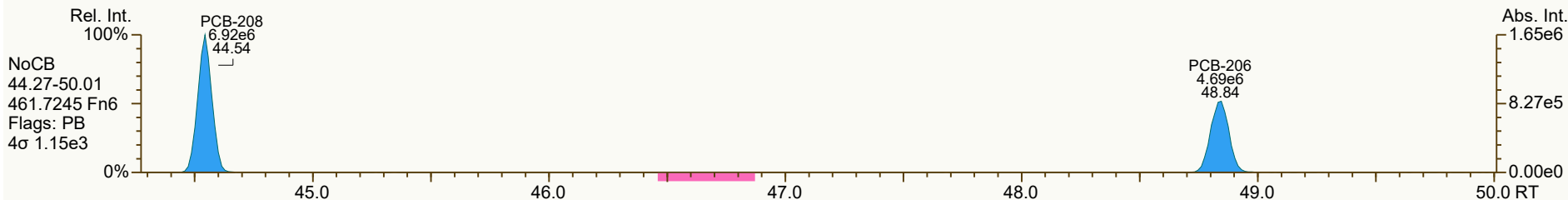
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User: RAB Datafile: 240918S03



SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

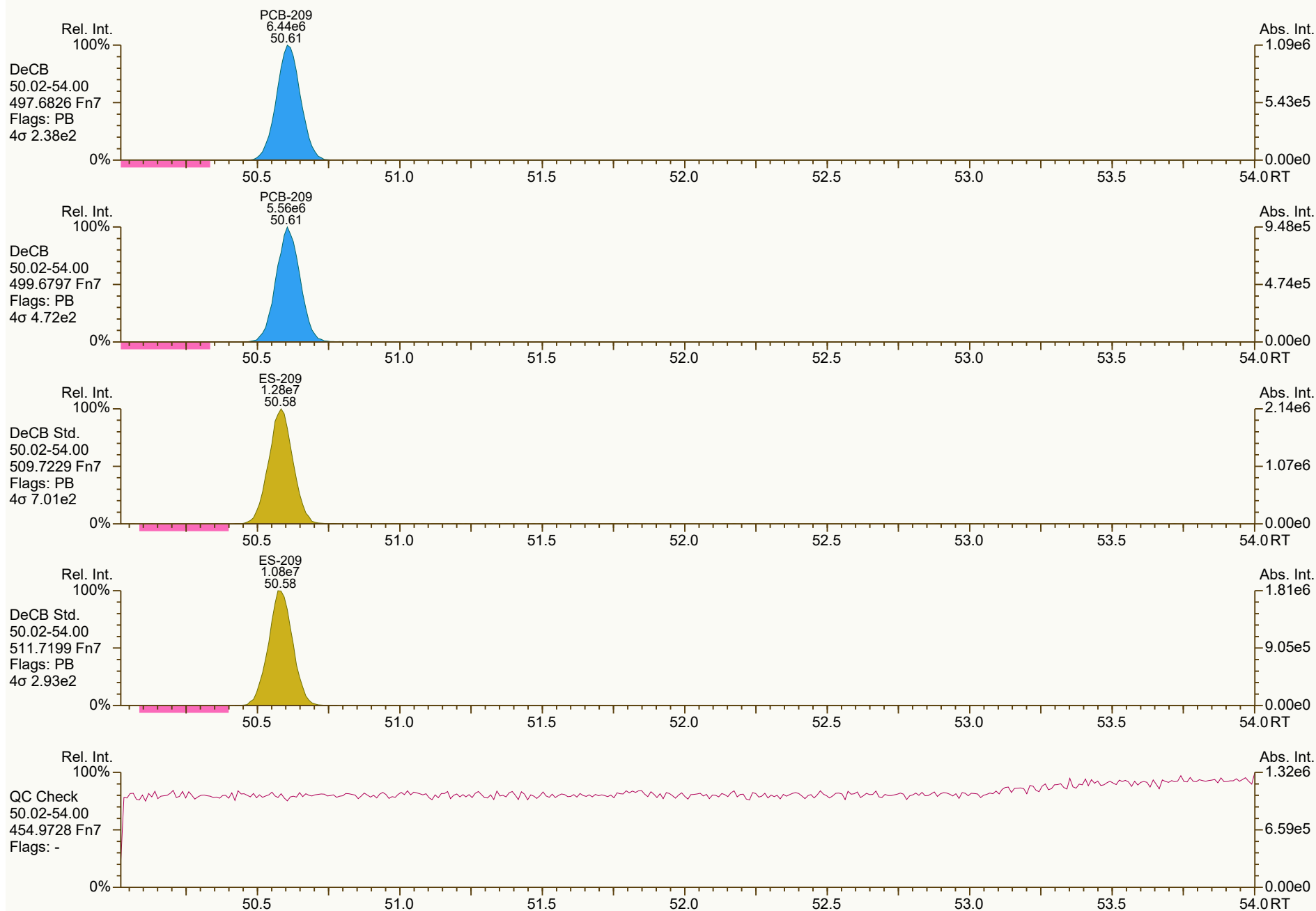
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User: RAB Datafile: 240918S03



SGS ID: CS3_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 1

Acq: 18-Sep-2024 13:09:58
User: RAB Datafile: 240918S03



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\CS3_240918_PCB_SB.utp_res, saved 20-Sep-2024 10:52 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 5020, 1308 scc: 856-935

Peak annotation: Areas, Centroids
PKD: 18-Sep-2024 14:17 Printed: 20-Sep-2024 11:04 Page 21 of 21

| PCB QC Summary - Ax2 Detail | | SGS North America | | Printed: 27 Sep 2024 10:06 | | |
|-----------------------------|-------------------|-------------------|-------------------------|----------------------------|------|-----------|
| Lab ID: | CS3_240918_PCB_SC | | | | | |
| Acquired: | 18-SEP-2024 14:19 | | ICAL: MM4-PCB_03SEP2024 | | | |
| Datafile: | 240918S04 | | | | | |
| Name | RT | Response | RA | ICAL | RRF | Deviation |
| PCB-1 2-MoCB | 11.45 | 2.99E+07 | 3.03 Y | 1.47 | - | - |
| PCB-2 3-MoCB | 13.49 | 2.89E+07 | 3.03 Y | | 1.28 | - |
| PCB-3 4-MoCB | 13.67 | 2.89E+07 | 3.00 Y | 1.45 | - | - |
| PCB-4 22'-DiCB | 13.92 | 1.96E+07 | 1.54 Y | 1.30 | - | - |
| PCB-10 26-DiCB | 14.09 | 2.48E+07 | 1.54 Y | | 1.60 | - |
| PCB-9 25-DiCB | 15.84 | 2.49E+07 | 1.51 Y | | 1.08 | - |
| PCB-7 24-DiCB | 16.00 | 2.21E+07 | 1.47 Y | | 0.96 | - |
| PCB-6 23'-DiCB | 16.23 | 2.57E+07 | 1.52 Y | | 1.12 | - |
| PCB-5 23-DiCB | 16.53 | 2.15E+07 | 1.47 Y | | 0.93 | - |
| PCB-8 24'-DiCB | 16.65 | 2.68E+07 | 1.50 Y | | 1.16 | - |
| PCB-14 35-DiCB | 18.16 | 2.22E+07 | 1.49 Y | | 0.97 | - |
| PCB-11 33'-DiCB | 18.94 | 2.43E+07 | 1.49 Y | | 1.06 | - |
| PCB-13/12 34'/34-DiCB | 19.23 | 4.32E+07 | 1.50 Y | | 0.94 | - |
| PCB-15 44'-DiCB | 19.51 | 2.37E+07 | 1.47 Y | 1.31 | - | - |
| PCB-19 22'6-TrCB | 16.94 | 1.76E+07 | 1.03 Y | 1.16 | - | - |
| PCB-30/18 246/22'5-TrCB | 18.64 | 4.54E+07 | 1.03 Y | | 1.47 | - |
| PCB-17 22'4-TrCB | 19.04 | 1.61E+07 | 1.04 Y | | 1.04 | - |
| PCB-27 23'6-TrCB | 19.24 | 2.22E+07 | 1.04 Y | | 1.44 | - |
| PCB-24 236-TrCB | 19.37 | 2.27E+07 | 1.05 Y | | 1.47 | - |
| PCB-16 22'3-TrCB | 19.48 | 1.55E+07 | 1.04 Y | | 1.01 | - |
| PCB-32 24'6-TrCB | 19.94 | 2.50E+07 | 1.03 Y | | 1.62 | - |
| PCB-34 23'5'-TrCB | 21.06 | 2.18E+07 | 1.06 Y | | 1.13 | - |
| PCB-23 235-TrCB | 21.20 | 2.17E+07 | 1.06 Y | | 1.12 | - |
| PCB-26/29 23'5/245-TrCB | 21.49 | 4.37E+07 | 1.08 Y | | 1.13 | - |
| PCB-25 23'4-TrCB | 21.69 | 2.67E+07 | 1.04 Y | | 1.38 | - |
| PCB-31 24'5-TrCB | 21.97 | 2.56E+07 | 1.06 Y | | 1.32 | - |
| PCB-28/20 244'/233'-TrCB | 22.25 | 4.69E+07 | 1.06 Y | | 1.21 | - |
| PCB-21/33 234/23'4'-TrCB | 22.42 | 4.58E+07 | 1.05 Y | | 1.18 | - |
| PCB-22 234'-TrCB | 22.81 | 2.47E+07 | 1.08 Y | | 1.28 | - |
| PCB-36 33'5-TrCB | 24.16 | 2.62E+07 | 1.07 Y | | 1.35 | - |
| PCB-39 34'5-TrCB | 24.48 | 2.37E+07 | 1.06 Y | | 1.23 | - |
| PCB-38 345-TrCB | 25.00 | 2.40E+07 | 1.07 Y | | 1.24 | - |
| PCB-35 33'4-TrCB | 25.41 | 2.28E+07 | 1.06 Y | | 1.18 | - |
| PCB-37 344'-TrCB | 25.77 | 2.26E+07 | 1.08 Y | 1.43 | - | - |
| PCB-54 22'66'-TeCB | 19.80 | 1.84E+07 | 0.80 Y | 1.52 | - | - |
| PCB-50/53 22'46/22'56'-TeCB | 21.74 | 3.24E+07 | 0.78 Y | | 0.88 | - |
| PCB-45 22'36'-TeCB | 22.33 | 1.33E+07 | 0.77 Y | | 0.72 | - |
| PCB-51 22'46'-TeCB | 22.39 | 1.68E+07 | 0.80 Y | | 0.92 | - |
| PCB-46 22'36'-TeCB | 22.62 | 1.31E+07 | 0.79 Y | | 0.71 | - |
| PCB-52 22'55'-TeCB | 23.84 | 1.83E+07 | 0.79 Y | | 1.00 | - |
| PCB-73 23'5'6'-TeCB | 23.96 | 2.25E+07 | 0.78 Y | | 1.23 | - |
| PCB-43 22'35'-TeCB | 24.06 | 1.57E+07 | 0.79 Y | | 0.85 | - |

PCB QC Summary - Ax2 Detail

SGS North America

Printed: 27 Sep 2024 10:06

Lab ID: CS3_240918_PCB_SC

Acquired: 18-SEP-2024 14:19

ICAL: MM4-PCB_03SEP2024

Datafile: 240918S04

| Name | RT | Response | RA | ICAL | RRF | Deviation |
|---------------------------------|-------|----------|--------|------|------|-----------|
| PCB-69/49 23'46/22'45'-TeCB | 24.24 | 3.70E+07 | 0.79 Y | | 1.01 | - |
| PCB-48 22'45'-TeCB | 24.52 | 1.58E+07 | 0.78 Y | | 0.86 | - |
| PCB-44/47/65 ...-TeCB | 24.74 | 5.31E+07 | 0.79 Y | | 0.96 | - |
| PCB-59/62/75 ...-TeCB | 25.01 | 6.10E+07 | 0.78 Y | | 1.11 | - |
| PCB-42 22'34'-TeCB | 25.19 | 1.41E+07 | 0.80 Y | | 0.77 | - |
| PCB-41 22'34'-TeCB | 25.52 | 1.23E+07 | 0.77 Y | | 0.67 | - |
| PCB-71/40 23'4'6/22'33'-TeCB | 25.62 | 3.47E+07 | 0.78 Y | | 0.95 | - |
| PCB-64 234'6'-TeCB | 25.81 | 2.10E+07 | 0.77 Y | | 1.15 | - |
| PCB-72 23'55'-TeCB | 26.51 | 2.22E+07 | 0.79 Y | | 1.21 | - |
| PCB-68 23'45'-TeCB | 26.76 | 2.13E+07 | 0.79 Y | | 1.16 | - |
| PCB-57 233'5'-TeCB | 27.13 | 2.14E+07 | 0.80 Y | | 1.17 | - |
| PCB-58 233'5'-TeCB | 27.34 | 2.43E+07 | 0.79 Y | | 1.32 | - |
| PCB-67 23'45'-TeCB | 27.48 | 2.45E+07 | 0.79 Y | | 1.34 | - |
| PCB-63 234'5'-TeCB | 27.71 | 2.07E+07 | 0.79 Y | | 1.13 | - |
| PCB-61/70/74/76 ...-TeCB | 28.00 | 8.67E+07 | 0.78 Y | | 1.18 | - |
| PCB-66 23'44'-TeCB | 28.28 | 2.32E+07 | 0.79 Y | | 1.27 | - |
| PCB-55 233'4'-TeCB | 28.44 | 2.32E+07 | 0.78 Y | | 1.26 | - |
| PCB-56 233'4'-TeCB | 28.88 | 2.25E+07 | 0.77 Y | | 1.23 | - |
| PCB-60 2344'-TeCB | 29.06 | 1.92E+07 | 0.79 Y | | 1.05 | - |
| PCB-80 33'55'-TeCB | 29.37 | 2.28E+07 | 0.79 Y | | 1.24 | - |
| PCB-79 33'45'-TeCB | 30.70 | 2.57E+07 | 0.78 Y | | 1.40 | - |
| PCB-78 33'45'-TeCB | 31.18 | 2.13E+07 | 0.79 Y | | 1.16 | - |
| PCB-104 22'466'-PeCB | 24.68 | 1.50E+07 | 0.62 Y | 1.46 | - | - |
| PCB-96 22'366'-PeCB | 25.02 | 1.63E+07 | 0.61 Y | | 1.21 | - |
| PCB-103 22'45'6'-PeCB | 26.67 | 1.32E+07 | 0.62 Y | | 0.76 | - |
| PCB-94 22'356'-PeCB | 26.87 | 1.10E+07 | 0.62 Y | | 0.63 | - |
| PCB-95 22'35'6'-PeCB | 27.26 | 1.26E+07 | 0.63 Y | | 0.72 | - |
| PCB-100/93 22'44'6/22'356'-PeCB | 27.44 | 2.35E+07 | 0.62 Y | | 0.68 | - |
| PCB-102 22'456'-PeCB | 27.57 | 1.42E+07 | 0.63 Y | | 0.82 | - |
| PCB-98 22'34'6'-PeCB | 27.63 | 1.38E+07 | 0.64 Y | | 0.80 | - |
| PCB-88 22'346'-PeCB | 27.93 | 1.08E+07 | 0.63 Y | | 0.62 | - |
| PCB-91 22'34'6'-PeCB | 28.00 | 1.38E+07 | 0.65 Y | | 0.80 | - |
| PCB-84 22'33'6'-PeCB | 28.21 | 1.07E+07 | 0.63 Y | | 0.62 | - |
| PCB-89 22'346'-PeCB | 28.62 | 1.29E+07 | 0.63 Y | | 0.74 | - |
| PCB-121 23'45'6'-PeCB | 28.92 | 1.90E+07 | 0.63 Y | | 1.10 | - |
| PCB-92 22'355'-PeCB | 29.26 | 1.22E+07 | 0.64 Y | | 0.70 | - |
| PCB-113/90/101 ...-PeCB | 29.74 | 4.22E+07 | 0.62 Y | | 0.81 | - |
| PCB-83 22'33'5'-PeCB | 30.18 | 1.03E+07 | 0.63 Y | | 0.59 | - |
| PCB-99 22'44'5'-PeCB | 30.26 | 1.65E+07 | 0.63 Y | | 0.95 | - |
| PCB-112 233'56'-PeCB | 30.37 | 2.05E+07 | 0.63 Y | | 1.18 | - |
| PCB-109/119/86/97/125...-PeCB | 30.71 | 9.09E+07 | 0.63 Y | | 0.87 | - |
| PCB-117 234'56'-PeCB | 31.24 | 1.66E+07 | 0.62 Y | | 0.96 | - |

PCB QC Summary - Ax2 Detail

SGS North America

Printed: 27 Sep 2024 10:06

Lab ID: CS3_240918_PCB_SC

Acquired: 18-SEP-2024 14:19

ICAL: MM4-PCB_03SEP2024

Datafile: 240918S04

| Name | RT | Response | RA | ICAL | RRF | Deviation |
|-------------------------------|-------|----------|--------|------|------|-----------|
| PCB-116/85 23456/22'344'-PeCE | 31.33 | 2.89E+07 | 0.64 Y | | 0.83 | - |
| PCB-110 233'4'6-PeCB | 31.46 | 1.93E+07 | 0.62 Y | | 1.11 | - |
| PCB-115 2344'6-PeCB | 31.53 | 1.93E+07 | 0.63 Y | | 1.11 | - |
| PCB-82 22'33'4-PeCB | 31.75 | 1.27E+07 | 0.62 Y | | 0.73 | - |
| PCB-111 233'55'-PeCB | 32.03 | 1.76E+07 | 0.63 Y | | 1.02 | - |
| PCB-120 23'455'-PeCB | 32.42 | 2.15E+07 | 0.63 Y | | 1.24 | - |
| PCB-108/124 ...-PeCB | 33.40 | 3.47E+07 | 0.63 Y | | 1.00 | - |
| PCB-107 233'4'5-PeCB | 33.60 | 1.94E+07 | 0.62 Y | | 1.12 | - |
| PCB-106 233'45-PeCB | 33.82 | 1.85E+07 | 0.64 Y | | 1.07 | - |
| PCB-122 233'4'5'-PeCB | 34.29 | 1.52E+07 | 0.62 Y | | 0.84 | - |
| PCB-127 33'455'-PeCB | 36.22 | 1.89E+07 | 0.61 Y | | 1.09 | - |
| PCB-155 22'44'66'-HxCB | 29.56 | 1.75E+07 | 1.27 Y | 1.36 | - | - |
| PCB-152 22'3566'-HxCB | 29.76 | 2.08E+07 | 1.22 Y | | 1.22 | - |
| PCB-150 22'34'66'-HxCB | 29.89 | 1.82E+07 | 1.26 Y | | 1.07 | - |
| PCB-136 22'33'66'-HxCB | 30.22 | 1.73E+07 | 1.27 Y | | 1.01 | - |
| PCB-145 22'3466'-HxCB | 30.46 | 1.98E+07 | 1.27 Y | | 1.16 | - |
| PCB-148 22'34'56'-HxCB | 31.71 | 1.43E+07 | 1.25 Y | | 1.07 | - |
| PCB-151/135 ...-HxCB | 32.25 | 2.81E+07 | 1.28 Y | | 1.06 | - |
| PCB-154 22'44'56'-HxCB | 32.43 | 1.53E+07 | 1.29 Y | | 1.15 | - |
| PCB-144 22'345'6-HxCB | 32.71 | 1.41E+07 | 1.25 Y | | 1.06 | - |
| PCB-147/149 ...-HxCB | 33.02 | 2.97E+07 | 1.26 Y | | 1.12 | - |
| PCB-134 22'33'56-HxCB | 33.20 | 1.13E+07 | 1.23 Y | | 0.85 | - |
| PCB-143 22'3456'-HxCB | 33.28 | 1.37E+07 | 1.24 Y | | 1.03 | - |
| PCB-139/140 ...-HxCB | 33.52 | 2.93E+07 | 1.26 Y | | 1.10 | - |
| PCB-131 22'33'46-HxCB | 33.71 | 1.30E+07 | 1.27 Y | | 0.98 | - |
| PCB-142 22'3456-HxCB | 33.85 | 1.29E+07 | 1.23 Y | | 0.97 | - |
| PCB-132 22'33'46'-HxCB | 34.10 | 1.33E+07 | 1.26 Y | | 1.00 | - |
| PCB-133 22'33'55'-HxCB | 34.48 | 1.46E+07 | 1.23 Y | | 1.10 | - |
| PCB-165 233'55'6-HxCB | 34.82 | 1.72E+07 | 1.26 Y | | 1.29 | - |
| PCB-146 22'34'55'-HxCB | 35.03 | 1.65E+07 | 1.27 Y | | 1.24 | - |
| PCB-161 233'45'6-HxCB | 35.14 | 1.98E+07 | 1.27 Y | | 1.49 | - |
| PCB-153/168 ...-HxCB | 35.57 | 3.56E+07 | 1.27 Y | | 1.34 | - |
| PCB-141 22'3455'-HxCB | 35.73 | 1.34E+07 | 1.25 Y | | 1.01 | - |
| PCB-130 22'33'45'-HxCB | 36.08 | 1.18E+07 | 1.26 Y | | 0.89 | - |
| PCB-137 22'344'5-HxCB | 36.26 | 1.29E+07 | 1.23 Y | | 0.97 | - |
| PCB-164 233'4'5'6-HxCB | 36.36 | 2.02E+07 | 1.29 Y | | 1.52 | - |
| PCB-163/138/129 ...-HxCB | 36.64 | 4.32E+07 | 1.27 Y | | 1.08 | - |
| PCB-160 233'456-HxCB | 36.77 | 1.68E+07 | 1.25 Y | | 1.26 | - |
| PCB-158 233'44'6-HxCB | 36.95 | 1.93E+07 | 1.26 Y | | 1.45 | - |
| PCB-128/166 ...-HxCB | 37.69 | 2.90E+07 | 1.24 Y | | 0.90 | - |
| PCB-159 233'455'-HxCB | 38.50 | 1.92E+07 | 1.25 Y | | 1.19 | - |
| PCB-162 233'4'55'-HxCB | 38.74 | 1.64E+07 | 1.22 Y | | 1.01 | - |

PCB QC Summary - Ax2 Detail

SGS North America

Printed: 27 Sep 2024 10:06

Lab ID: CS3_240918_PCB_SC

Acquired: 18-SEP-2024 14:19

ICAL: MM4-PCB_03SEP2024

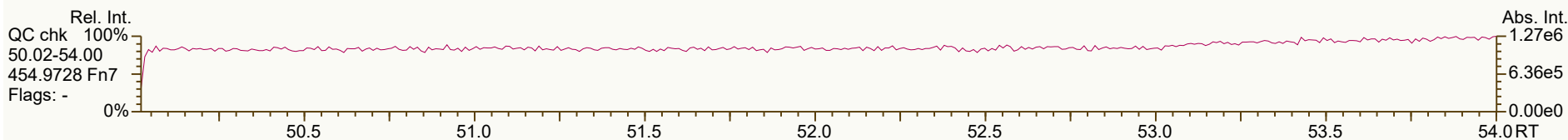
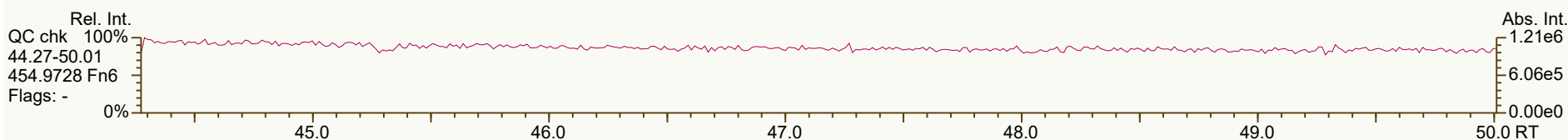
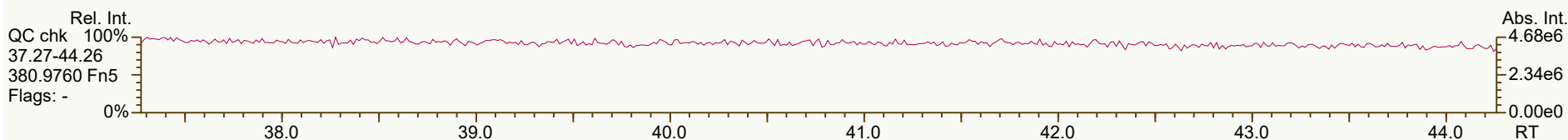
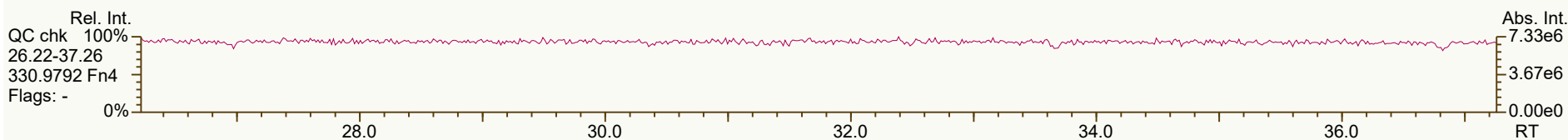
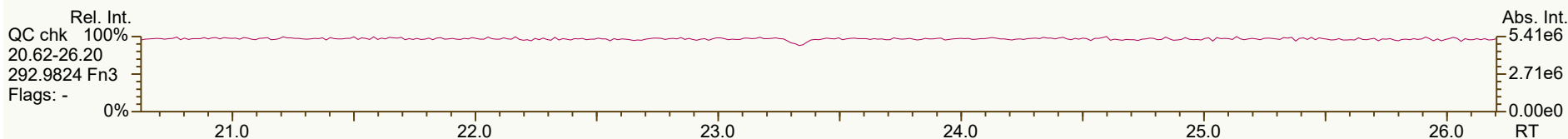
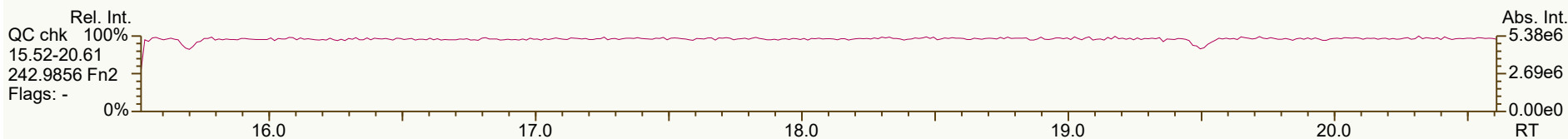
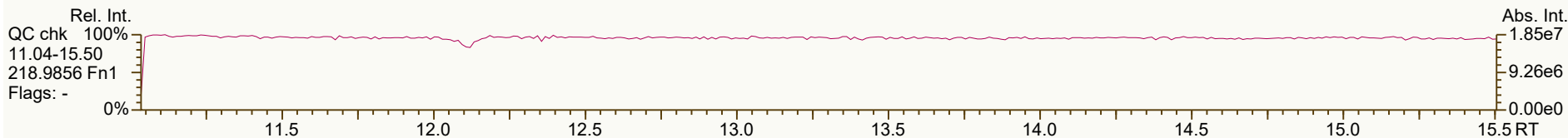
Datafile: 240918S04

| Name | RT | Response | RA | ICAL | RRF | Deviation |
|-----------------------------|-------|----------|--------|------|------|-----------|
| PCB-188 22'34'566'-HpCB | 34.42 | 1.36E+07 | 1.00 Y | 1.55 | - | - |
| PCB-179 22'33'566'-HpCB | 34.72 | 1.43E+07 | 1.01 Y | | 1.32 | - |
| PCB-184 22'344'66'-HpCB | 35.15 | 1.36E+07 | 1.01 Y | | 1.26 | - |
| PCB-176 22'33'466'-HpCB | 35.47 | 1.25E+07 | 1.03 Y | | 1.15 | - |
| PCB-186 22'34566'-HpCB | 35.86 | 1.48E+07 | 1.02 Y | | 1.37 | - |
| PCB-178 22'33'55'6'-HpCB | 36.98 | 9.99E+06 | 1.02 Y | | 0.92 | - |
| PCB-175 22'33'45'6'-HpCB | 37.52 | 1.35E+07 | 1.04 Y | | 0.99 | - |
| PCB-187 22'34'55'6'-HpCB | 37.75 | 1.67E+07 | 1.04 Y | | 1.22 | - |
| PCB-182 22'344'56'-HpCB | 37.92 | 1.62E+07 | 1.03 Y | | 1.18 | - |
| PCB-183 22'344'5'6'-HpCB | 38.27 | 1.55E+07 | 1.05 Y | | 1.13 | - |
| PCB-185 22'3455'6'-HpCB | 38.37 | 1.28E+07 | 1.03 Y | | 0.93 | - |
| PCB-174 22'33'456'-HpCB | 38.48 | 1.41E+07 | 1.02 Y | | 1.03 | - |
| PCB-177 22'33'45'6'-HpCB | 38.86 | 1.43E+07 | 1.03 Y | | 1.04 | - |
| PCB-181 22'344'56'-HpCB | 39.18 | 1.54E+07 | 1.04 Y | | 1.13 | - |
| PCB-171/173 ...-HpCB | 39.38 | 2.58E+07 | 1.05 Y | | 0.94 | - |
| PCB-172 22'33'455'-HpCB | 40.72 | 1.36E+07 | 1.04 Y | | 1.00 | - |
| PCB-192 233'455'6'-HpCB | 40.96 | 1.96E+07 | 1.03 Y | | 1.43 | - |
| PCB-180/193 ...-HpCB | 41.24 | 3.20E+07 | 1.04 Y | | 1.17 | - |
| PCB-191 233'44'5'6'-HpCB | 41.57 | 1.73E+07 | 1.05 Y | | 1.27 | - |
| PCB-170 22'33'44'5'-HpCB | 42.35 | 1.28E+07 | 1.02 Y | | 1.09 | - |
| PCB-190 233'44'56'-HpCB | 42.79 | 1.77E+07 | 1.02 Y | | 1.50 | - |
| PCB-202 22'33'55'66'-OoCB | 38.94 | 1.35E+07 | 0.85 Y | 1.32 | - | - |
| PCB-201 22'33'45'66'-OoCB | 39.72 | 1.28E+07 | 0.88 Y | | 1.00 | - |
| PCB-204 22'344'566'-OoCB | 40.28 | 1.45E+07 | 0.87 Y | | 1.13 | - |
| PCB-197 22'33'44'66'-OoCB | 40.47 | 1.34E+07 | 0.86 Y | | 1.04 | - |
| PCB-200 22'33'4566'-OoCB | 40.58 | 1.35E+07 | 0.85 Y | | 1.05 | - |
| PCB-198/199 ...-OoCB | 42.89 | 2.28E+07 | 0.86 Y | | 0.89 | - |
| PCB-196 22'33'44'56'-OoCB | 43.46 | 1.06E+07 | 0.84 Y | | 0.83 | - |
| PCB-203 22'344'55'6'-OoCB | 43.63 | 1.28E+07 | 0.86 Y | | 0.99 | - |
| PCB-195 22'33'44'56'-OoCB | 44.76 | 1.10E+07 | 0.88 Y | | 0.82 | - |
| PCB-194 22'33'44'55'-OoCB | 46.72 | 1.14E+07 | 0.91 Y | | 0.85 | - |
| PCB-205 233'44'55'6'-OoCB | 47.14 | 1.28E+07 | 0.89 Y | 1.12 | - | - |
| PCB-208 22'33'455'66'-NoCB | 44.54 | 1.40E+07 | 0.79 Y | 1.11 | - | - |
| PCB-207 22'33'44'566'-NoCB | 45.32 | 1.36E+07 | 0.79 Y | | 0.91 | - |
| PCB-206 22'33'44'55'6'-NoCB | 48.83 | 1.14E+07 | 0.79 Y | 1.04 | - | - |

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 18-Sep-2024 14:19:18
User: RAB Datafile: 240918S04



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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q scc: 298-715

Peak annotation: Areas, Centroids
PKD: n/a Printed: 20-Sep-2024 11:04 Page 1 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 18-Sep-2024 14:19:18
User: RAB Datafile: 240918S04



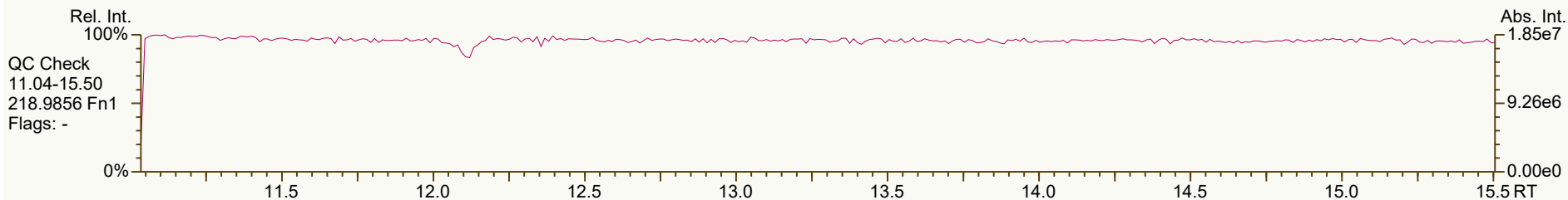
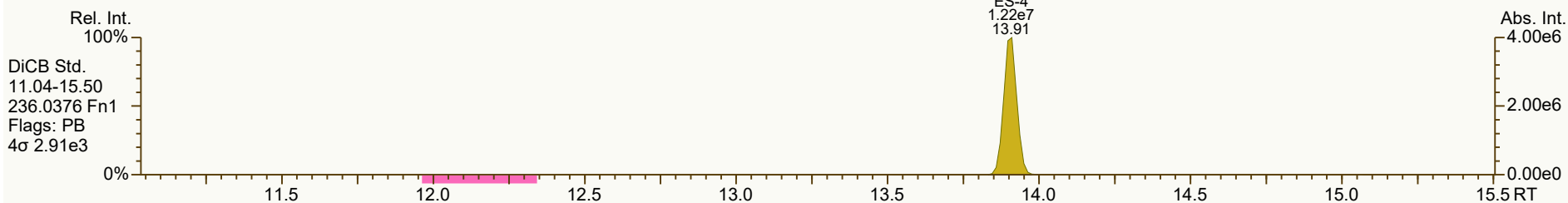
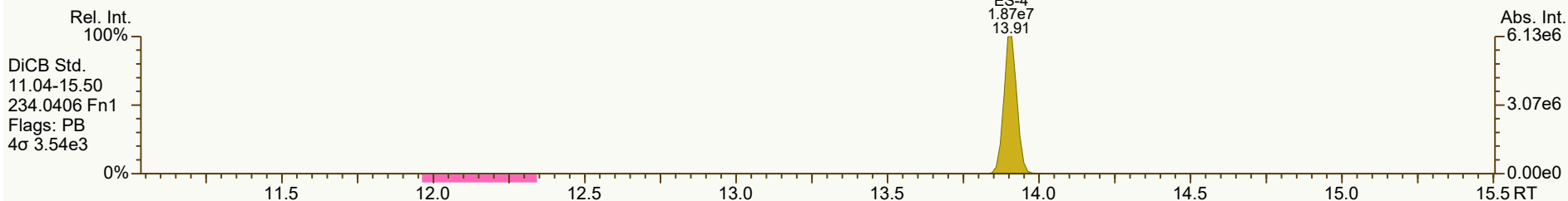
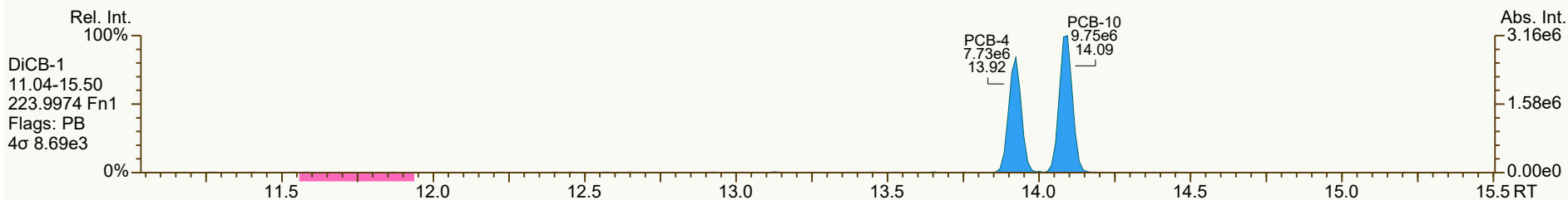
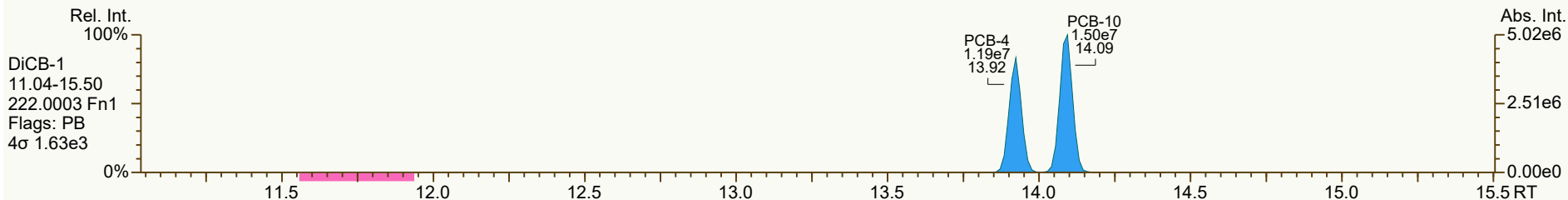
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 2 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 18-Sep-2024 14:19:18
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SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 18-Sep-2024 14:19:18
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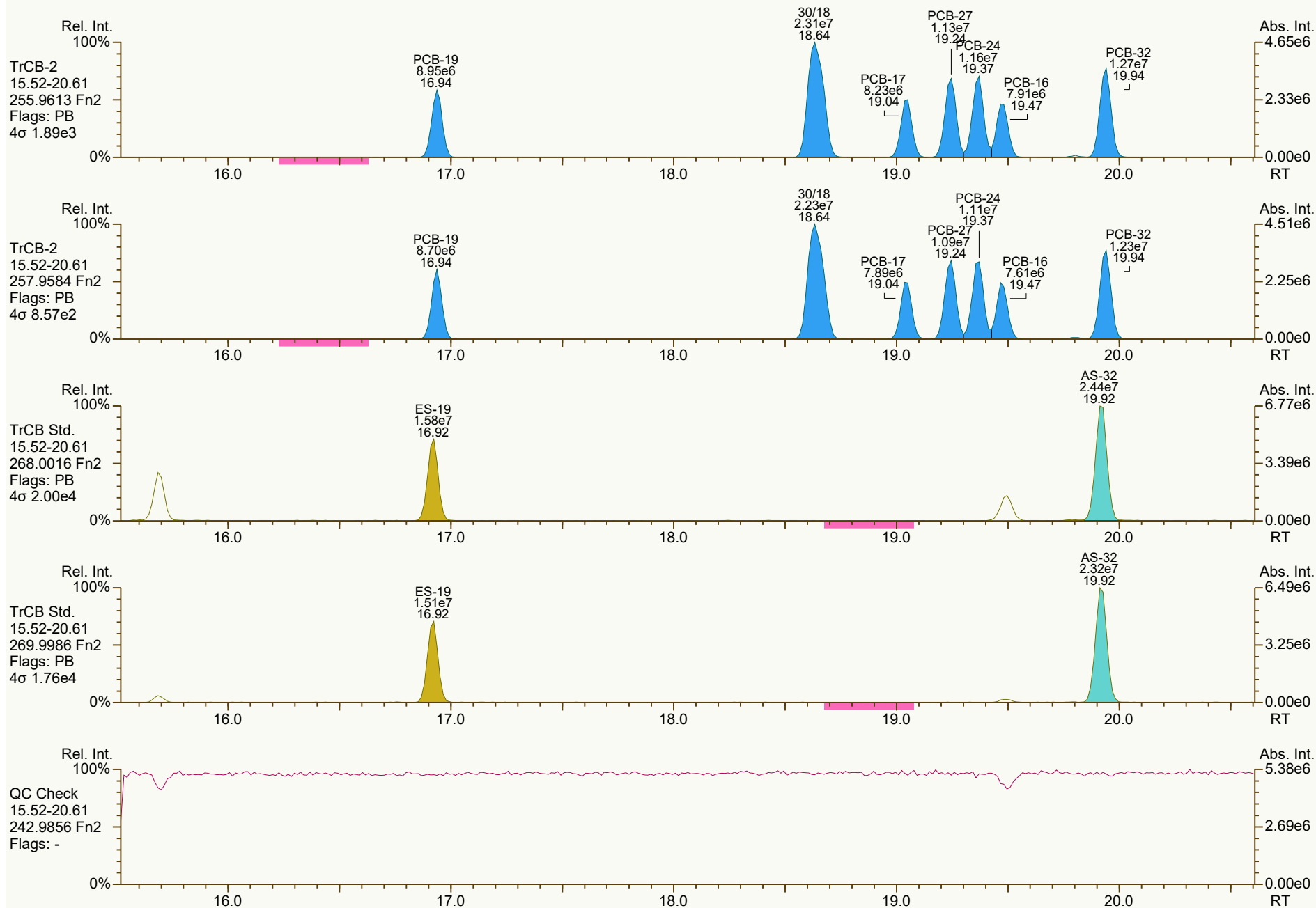
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 4 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
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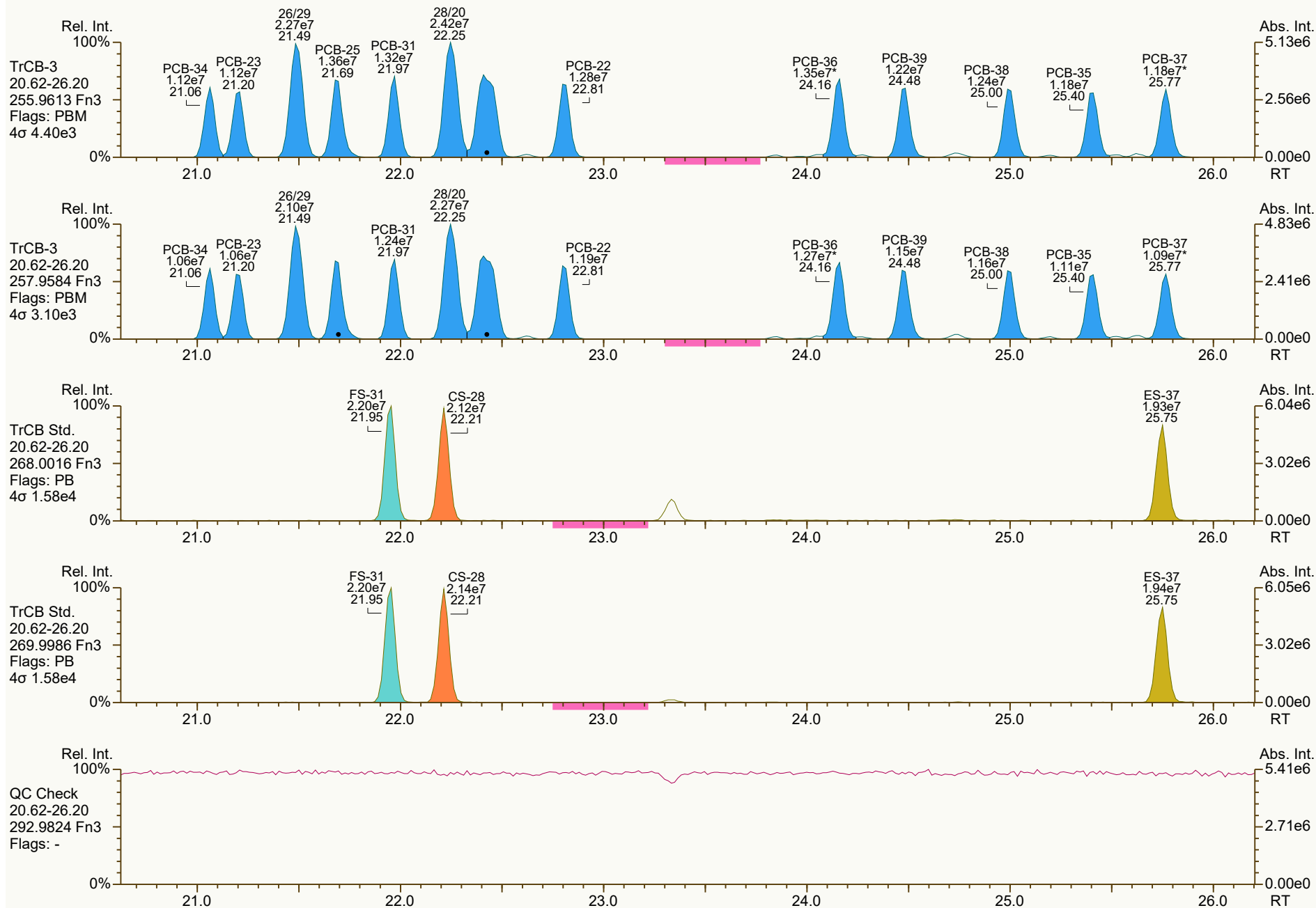
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Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 6 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

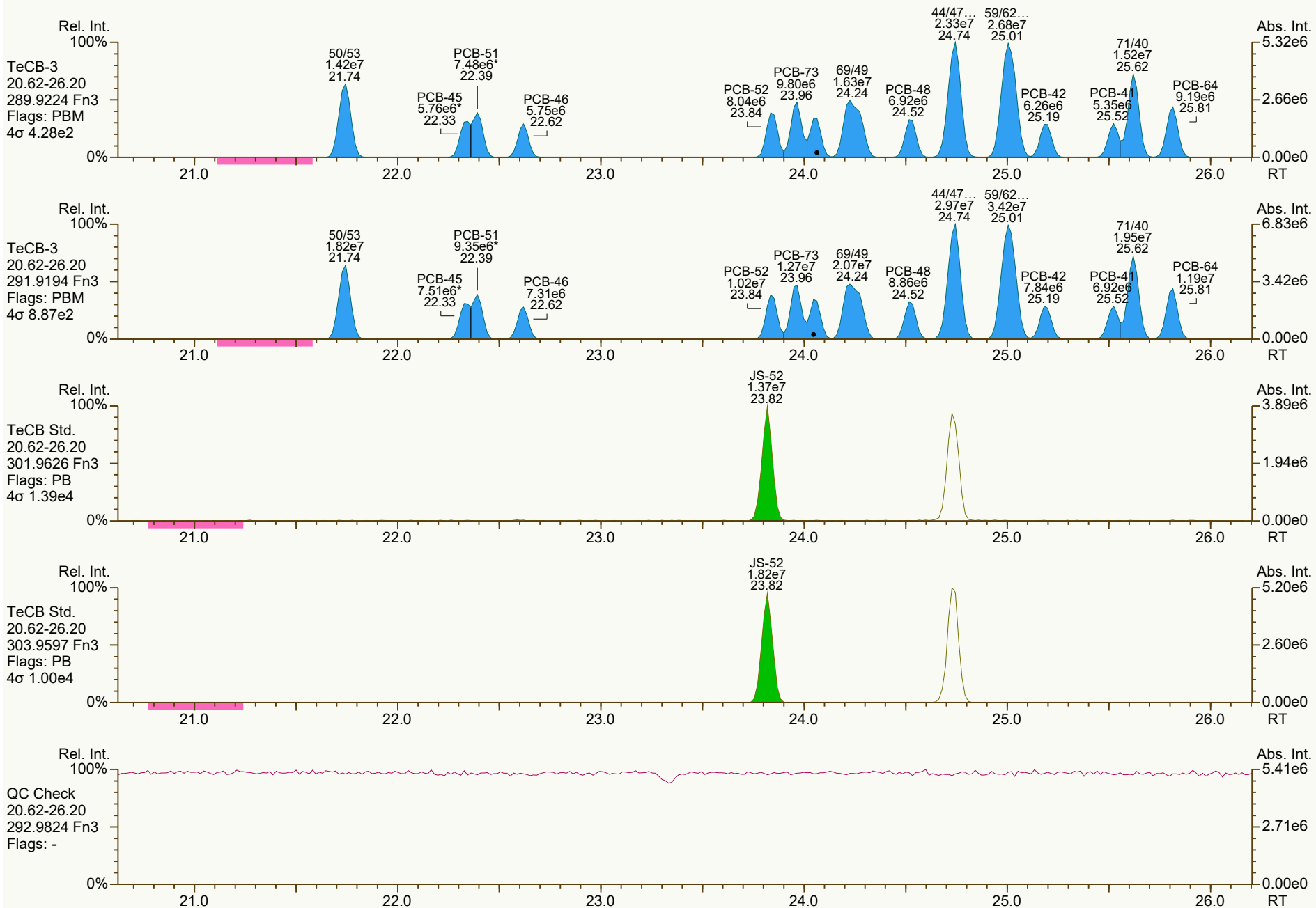
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SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
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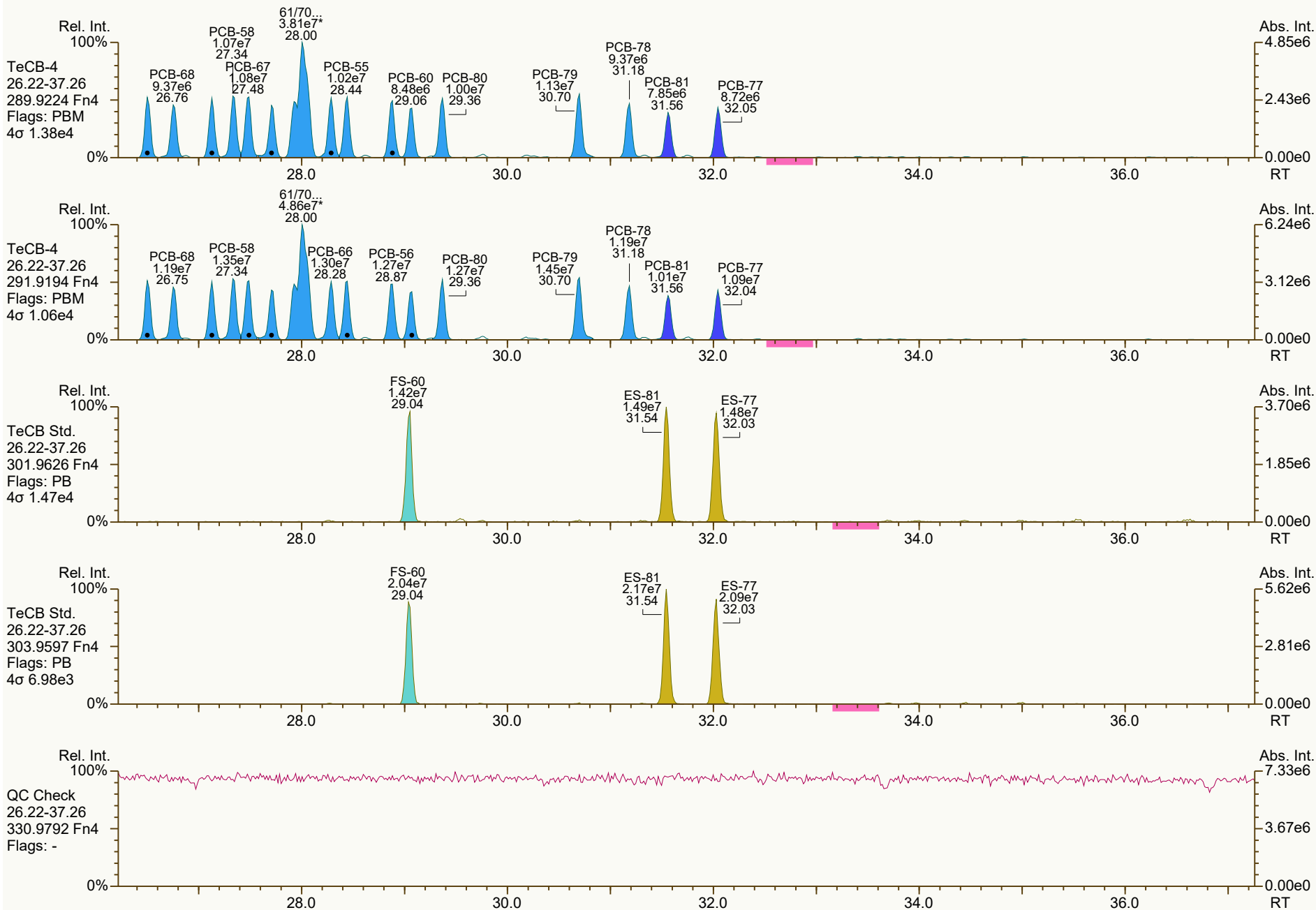
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 8 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

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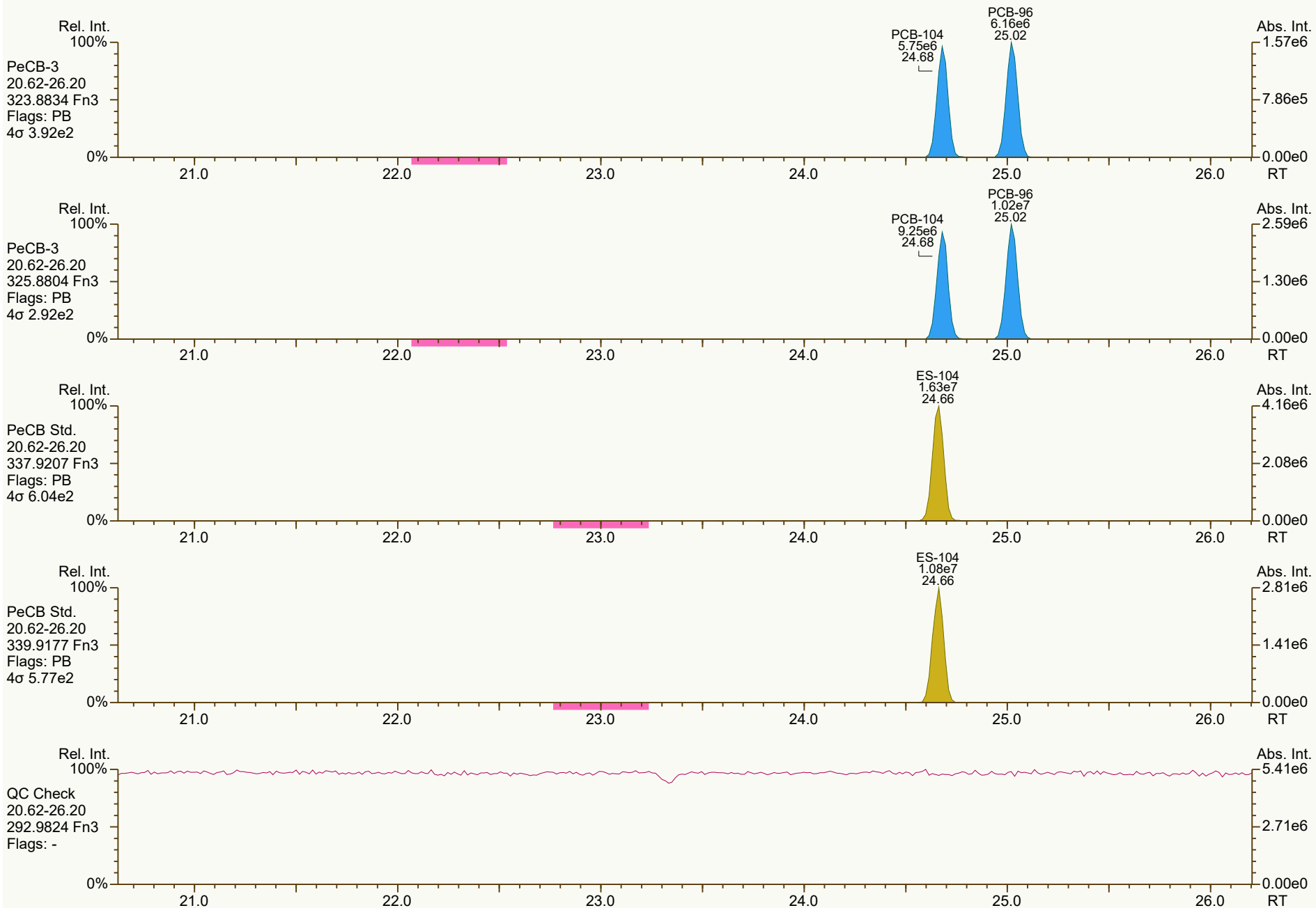
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 9 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

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User: RAB Datafile: 240918S04



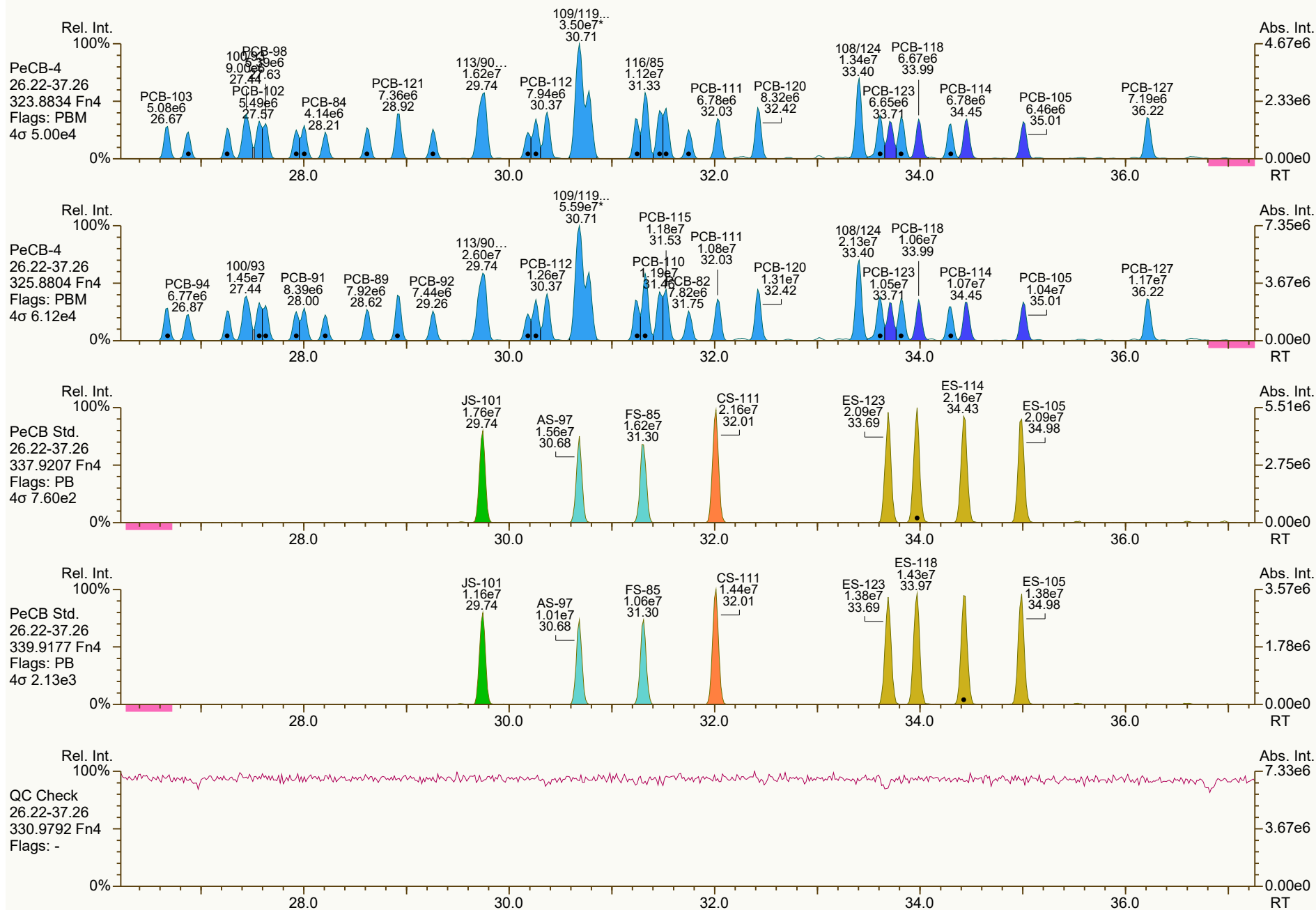
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 10 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
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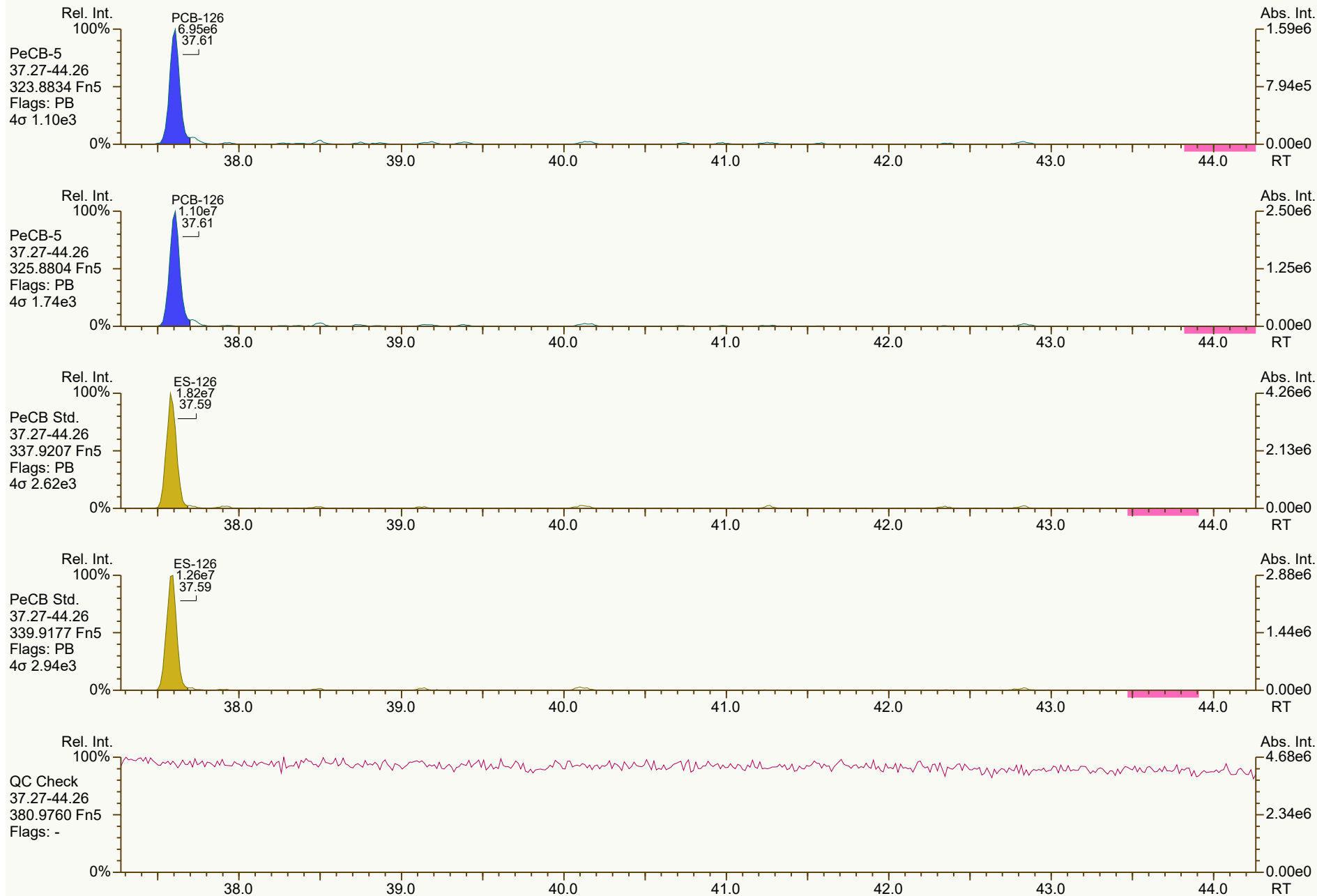
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 11 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

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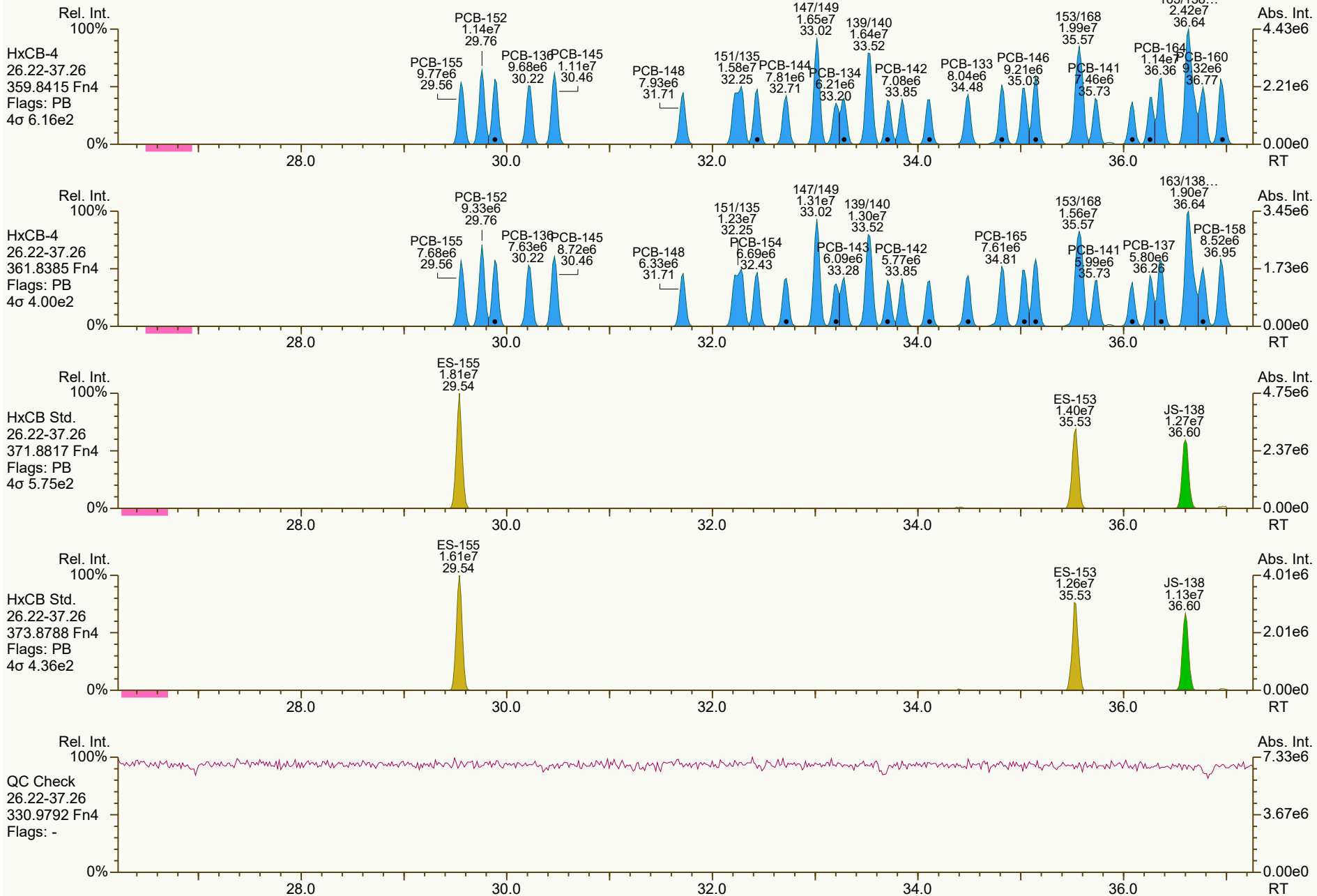
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 12 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

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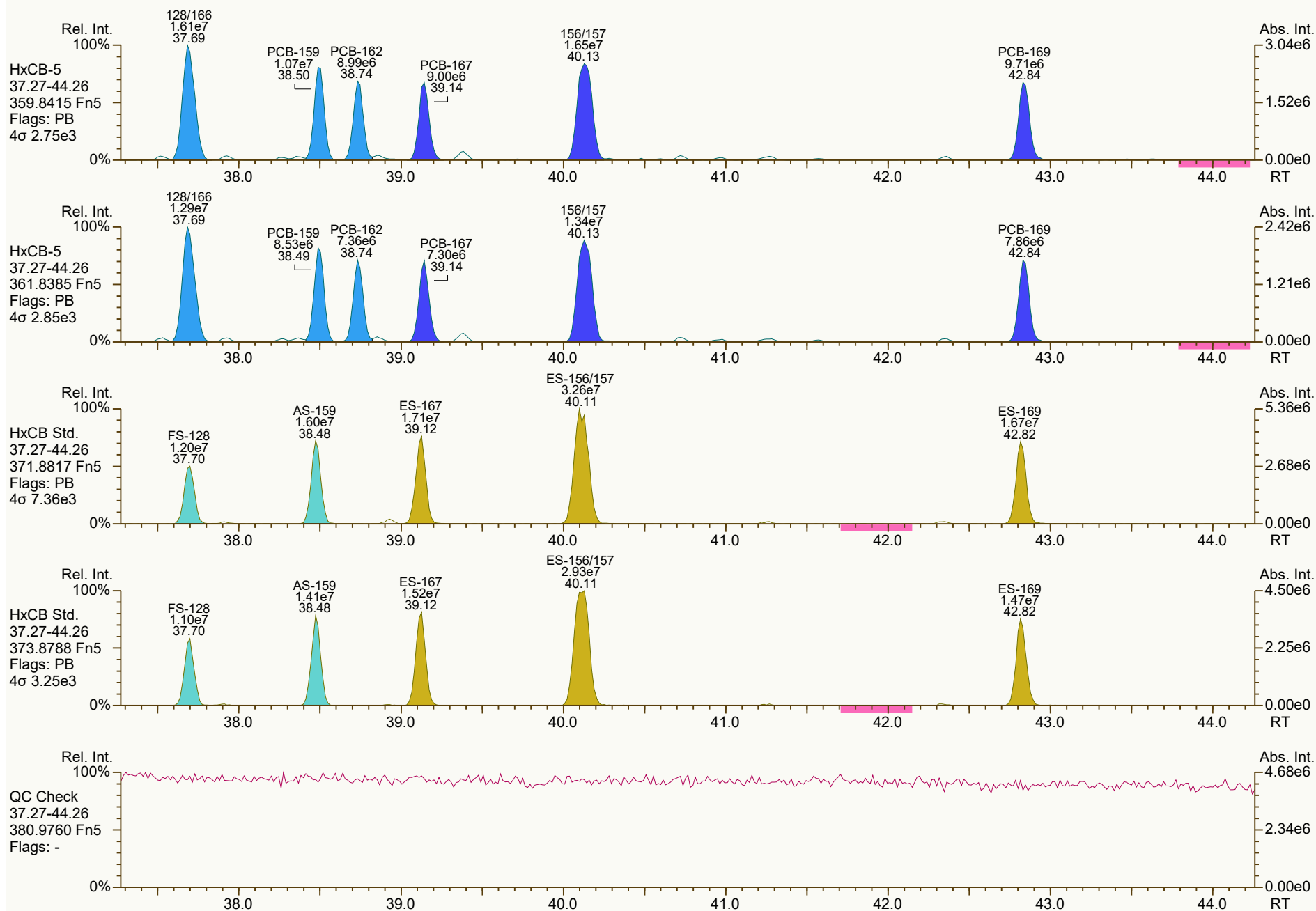
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 13 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

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User: RAB Datafile: 240918S04



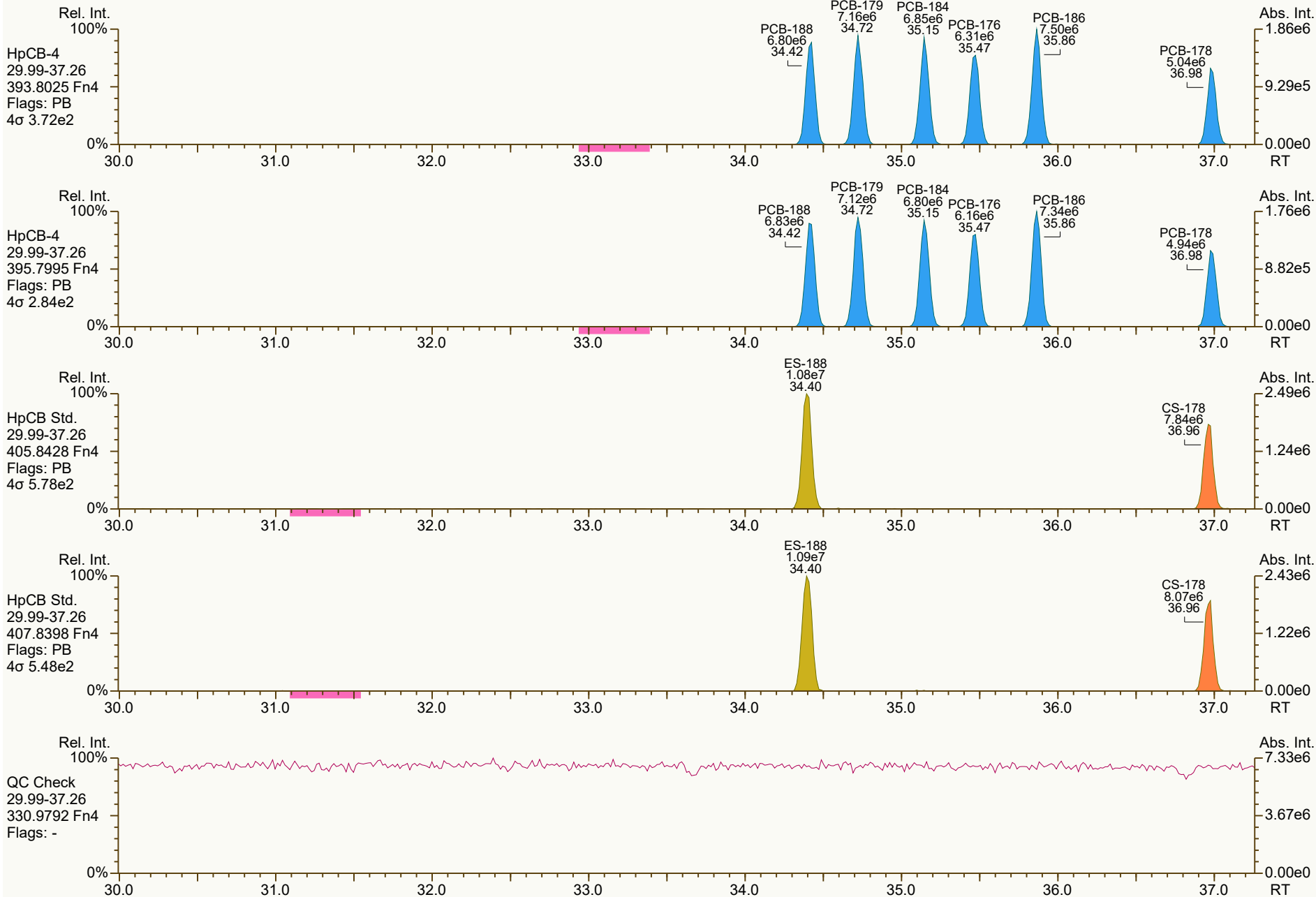
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 14 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

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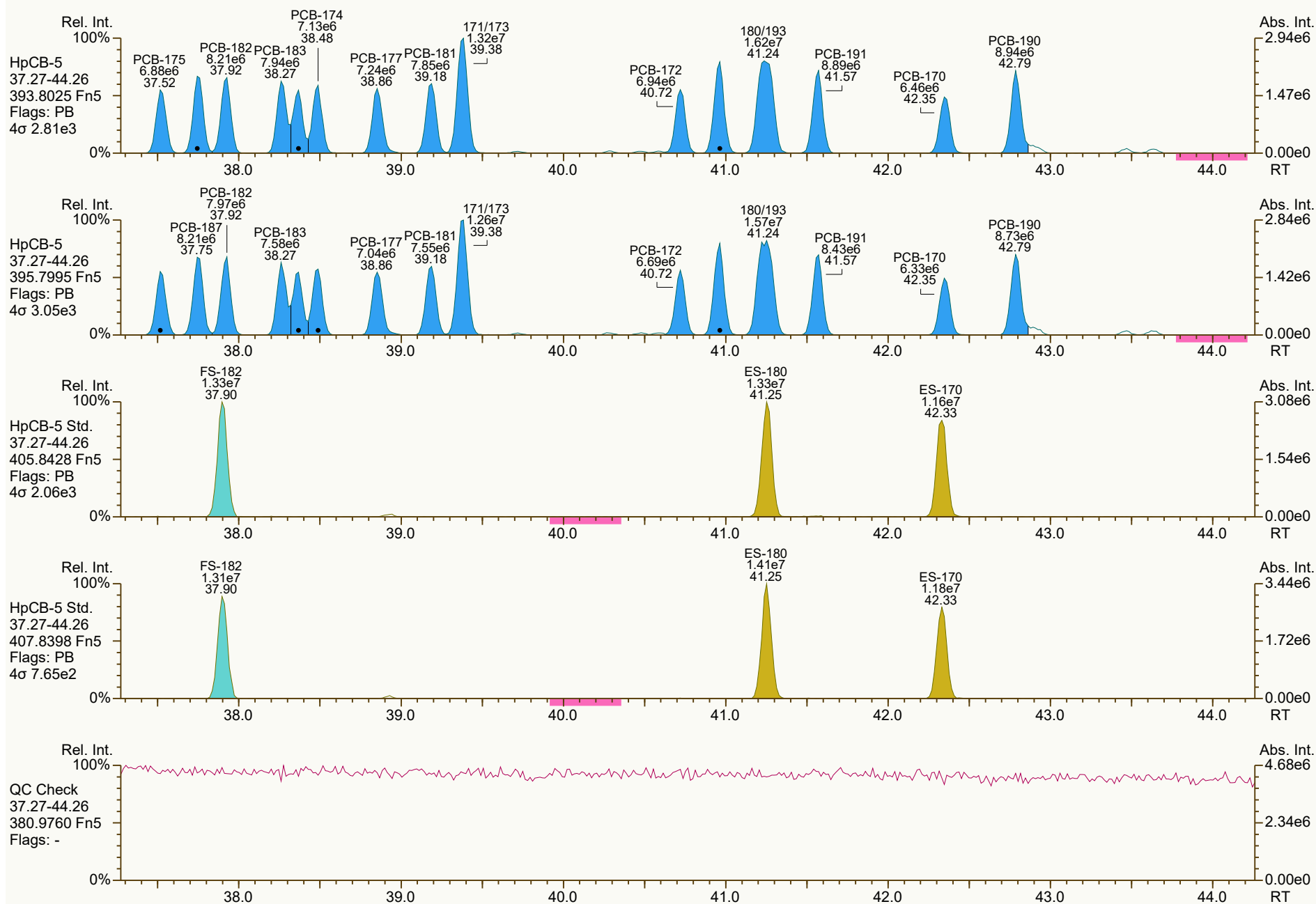
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 15 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 18-Sep-2024 14:19:18
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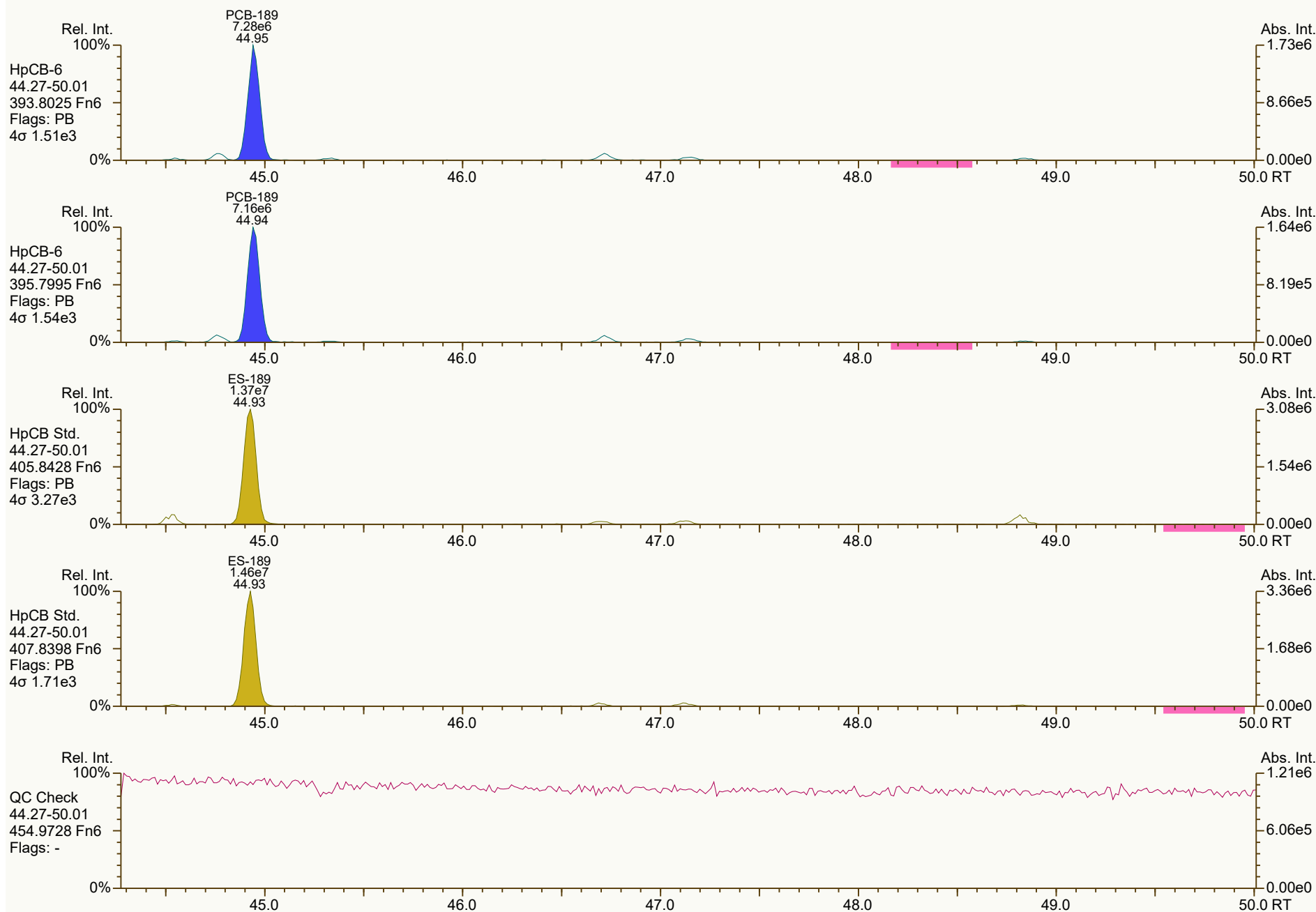
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 16 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

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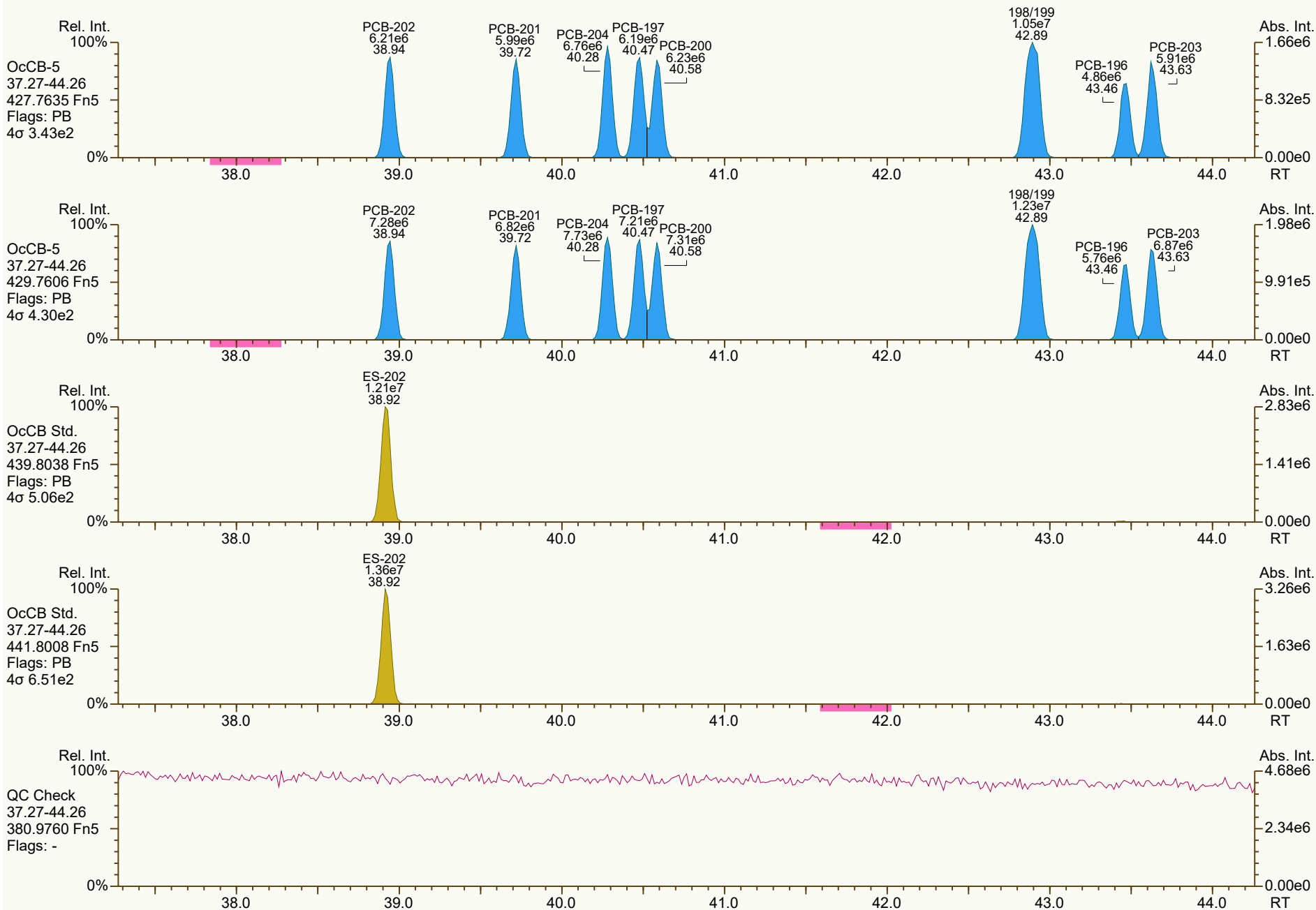
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 17 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

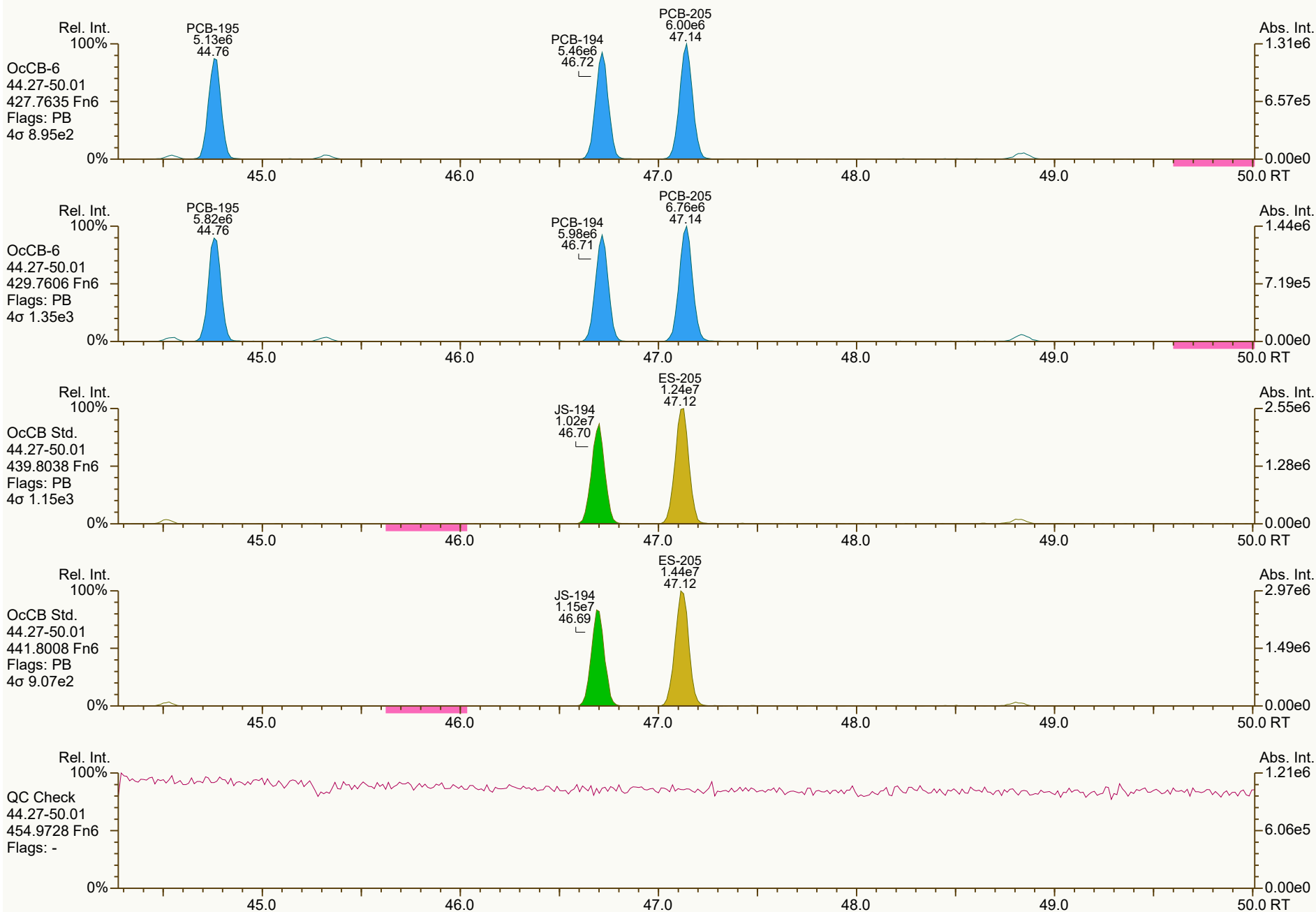
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Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
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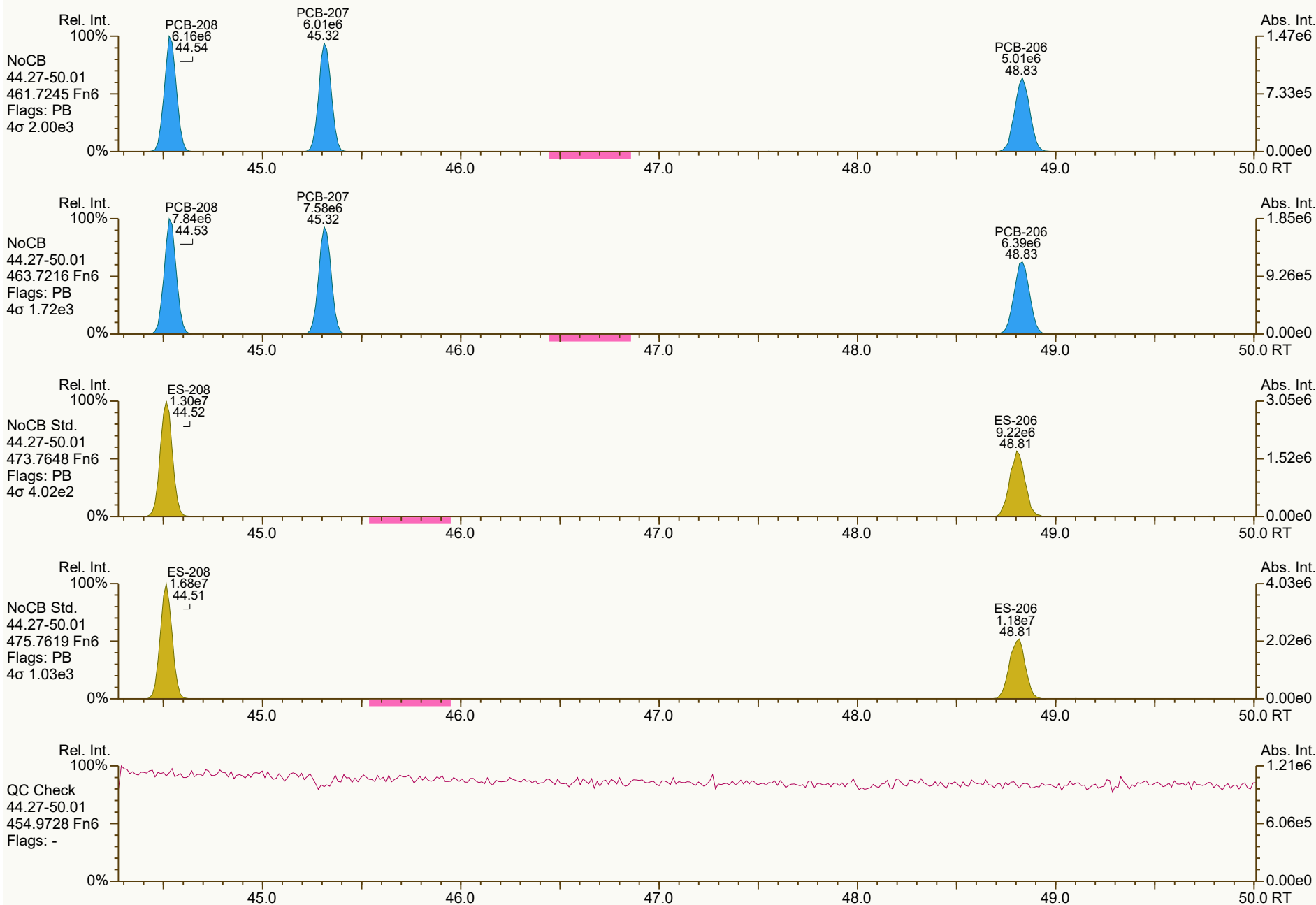
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 19 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
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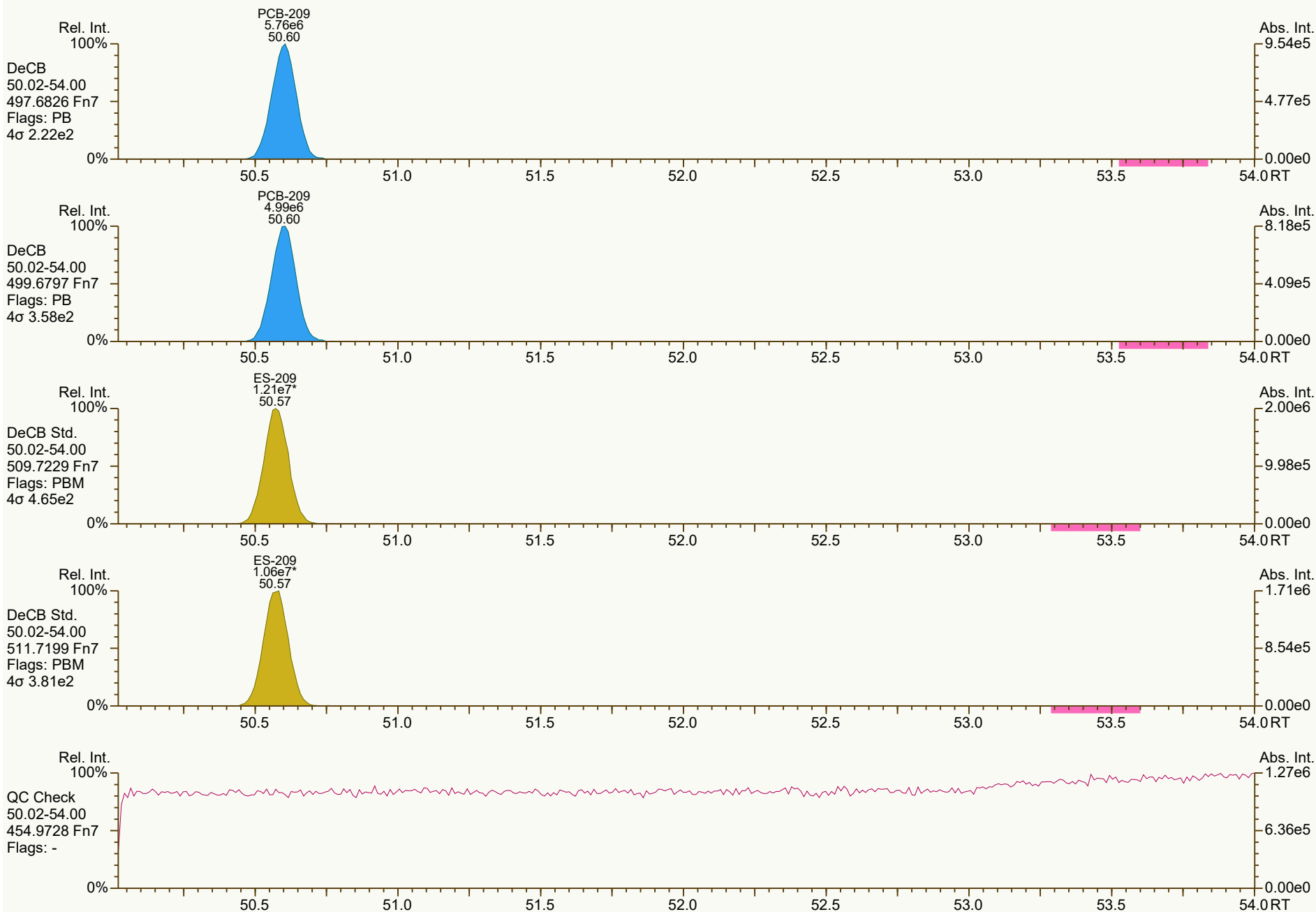
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 20 of 21

SGS ID: CS3_240918_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: CPSM SIL 27-92-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 08:54 Printed: 20-Sep-2024 11:04 Page 21 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
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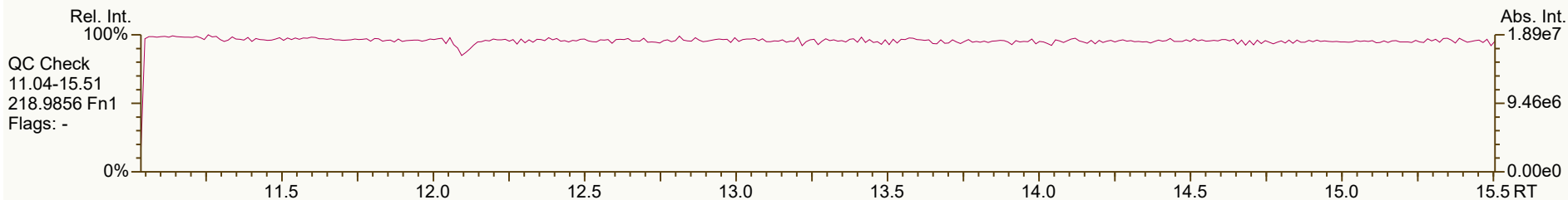
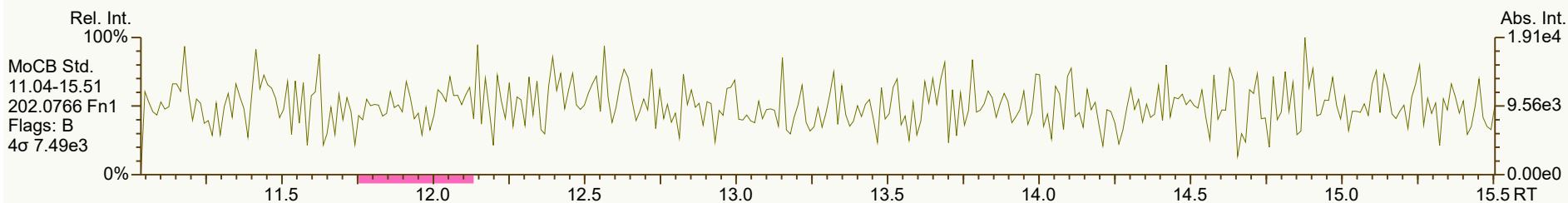
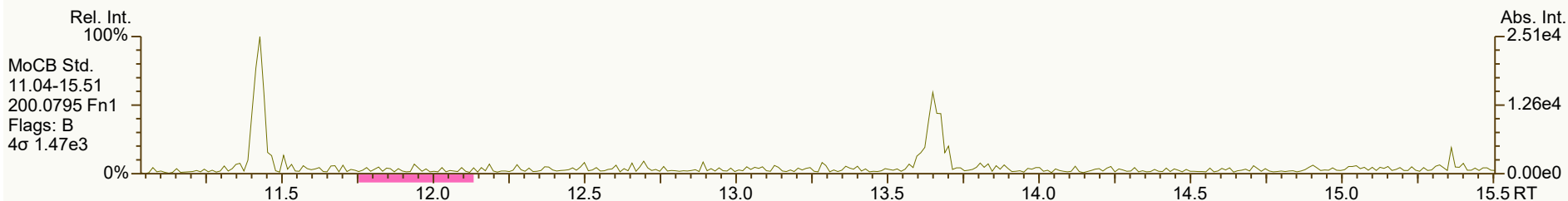
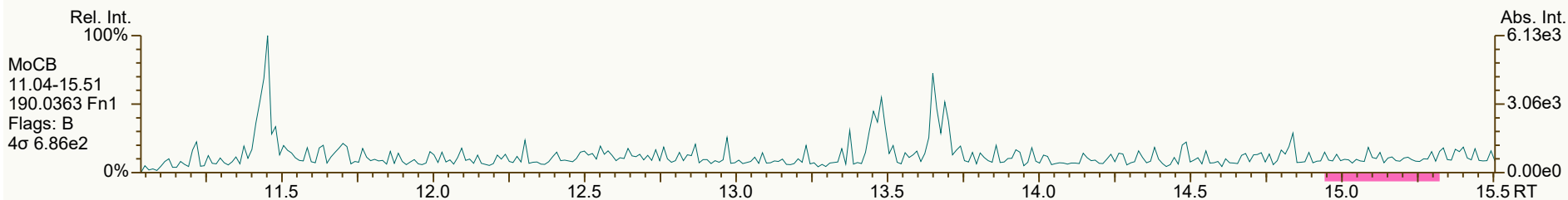
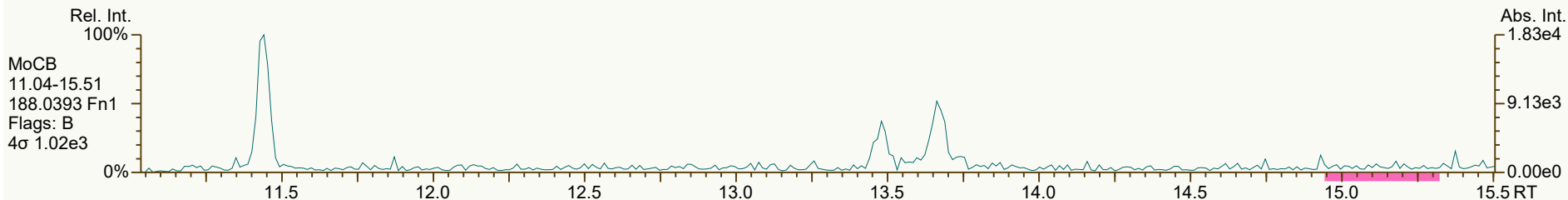
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Peak annotation: Areas, Centroids
PKD: n/a Printed: 20-Sep-2024 11:04 Page 1 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
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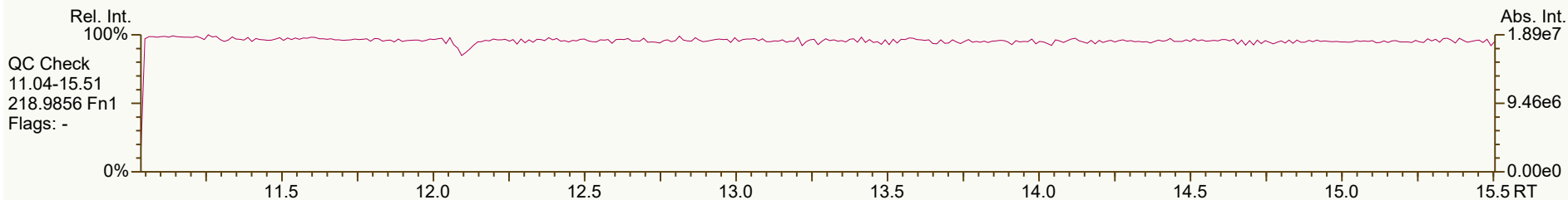
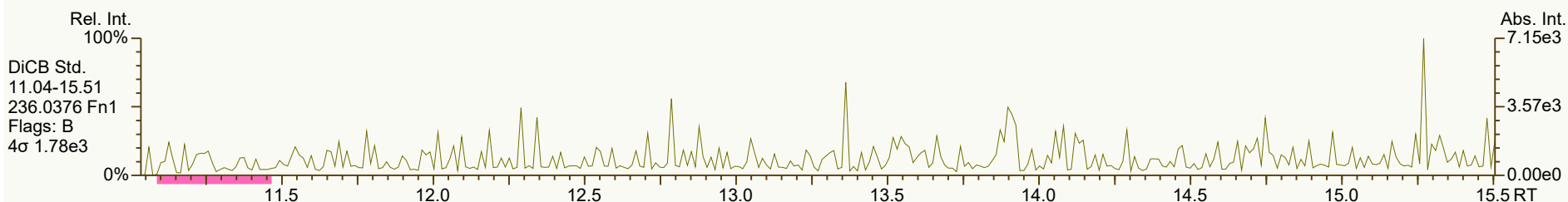
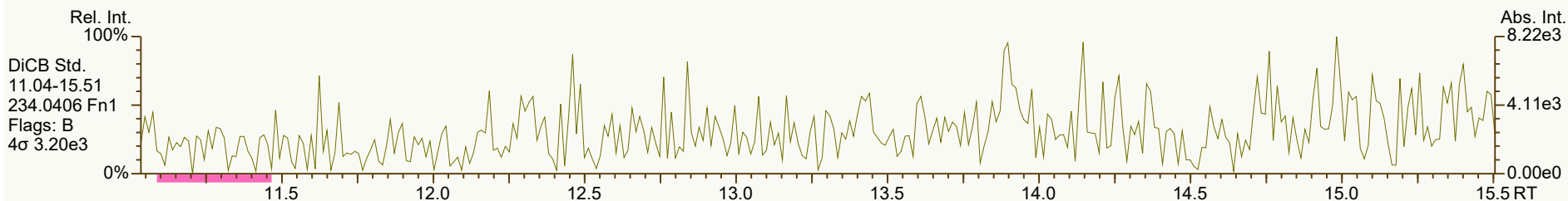
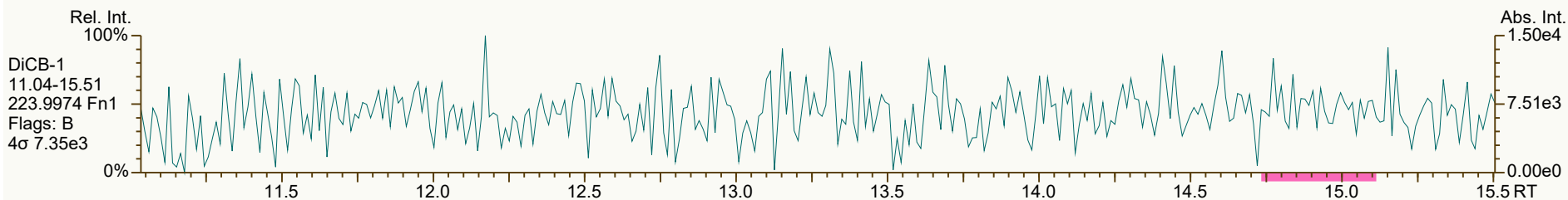
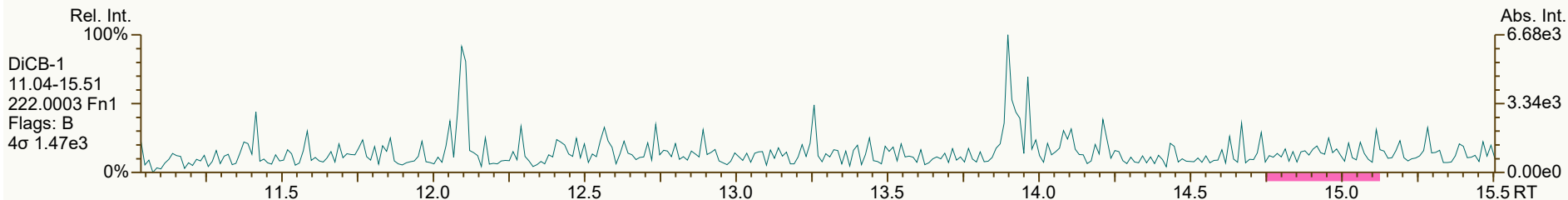
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:12 Printed: 20-Sep-2024 11:05 Page 2 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:12 Printed: 20-Sep-2024 11:05 Page 3 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



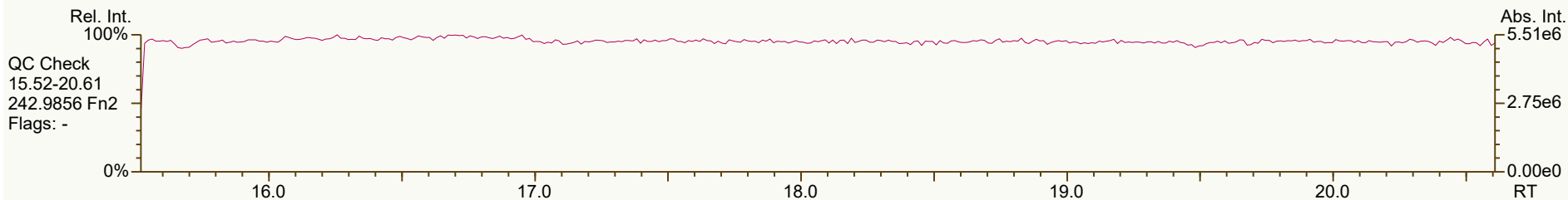
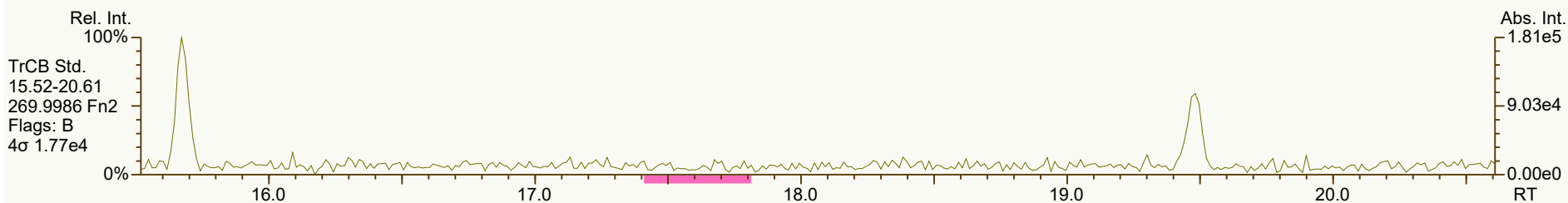
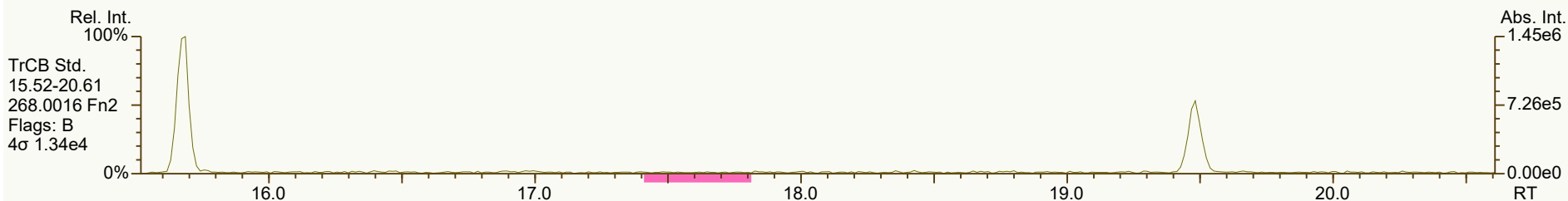
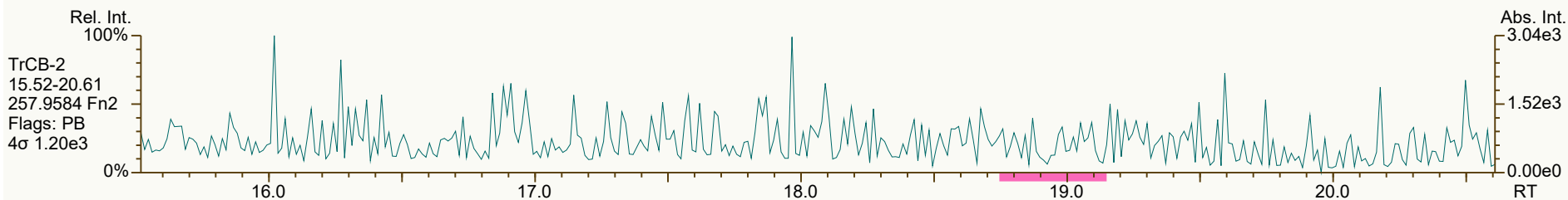
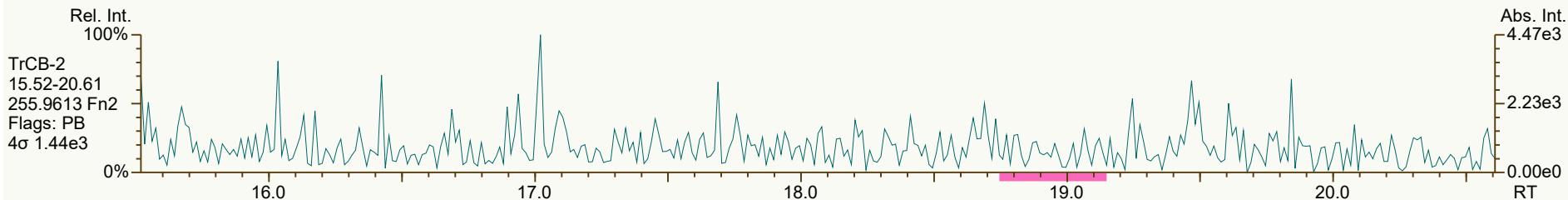
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9223, 2921 scc: 310-929

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:12 Printed: 20-Sep-2024 11:05 Page 4 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



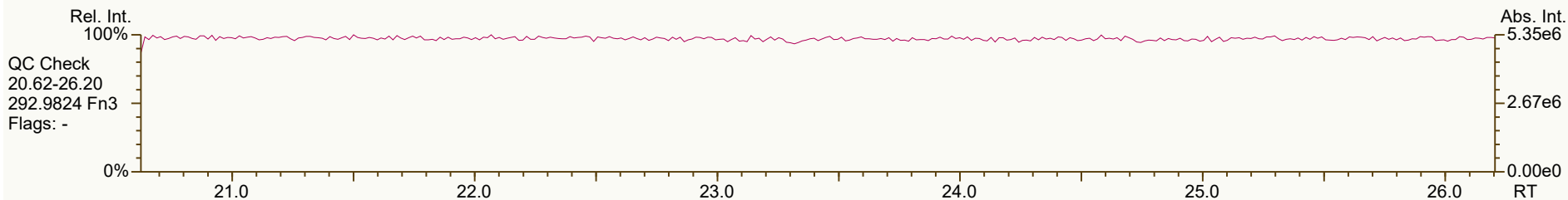
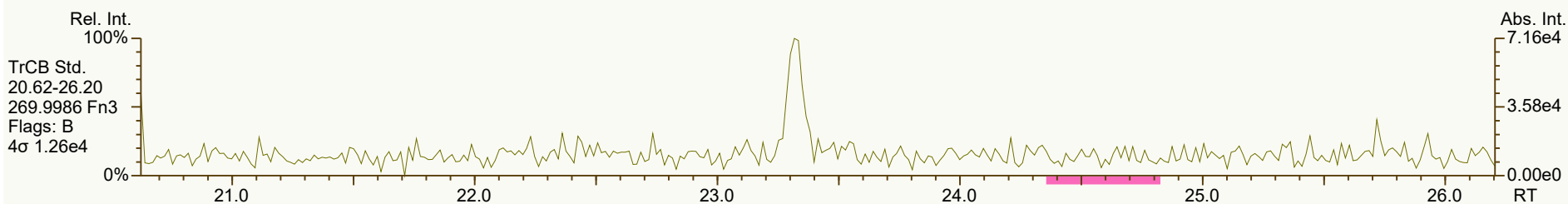
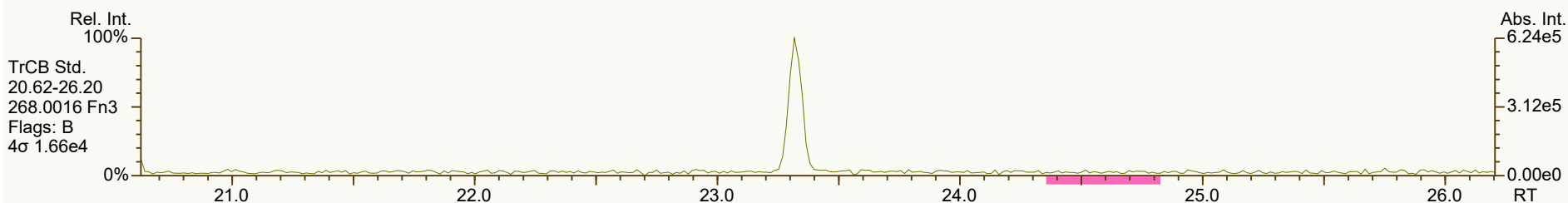
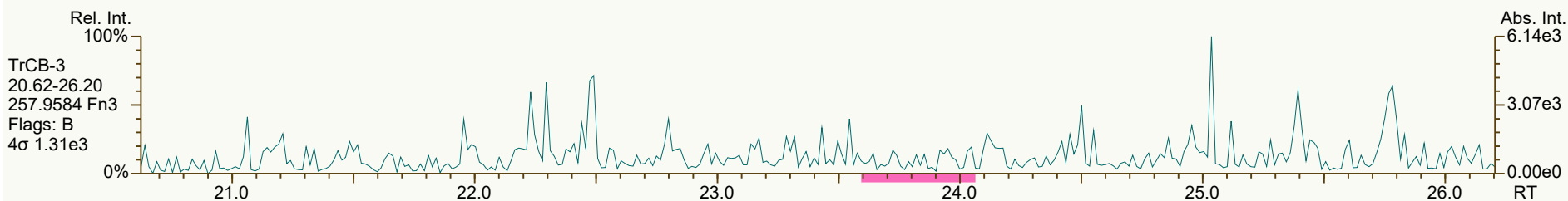
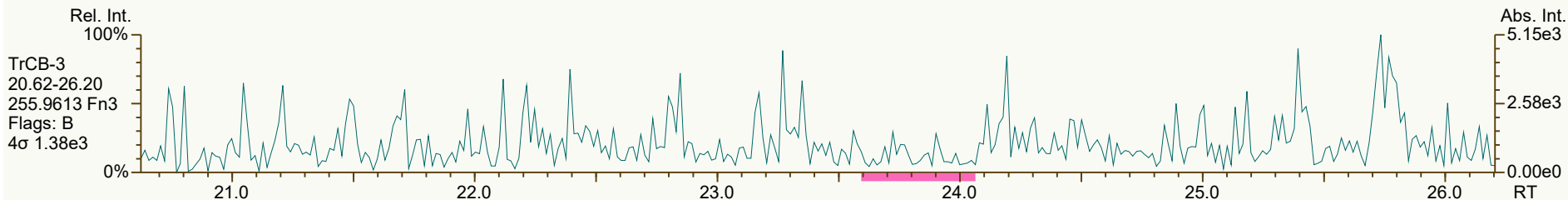
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7522, 0326 scc: 310-929

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:12 Printed: 20-Sep-2024 11:05 Page 5 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\SB_240918_PCB_SB.utp_res, saved 19-Sep-2024 16:12 (PSW)
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:12 Printed: 20-Sep-2024 11:05 Page 6 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



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Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:12 (PSW) Printed: 20-Sep-2024 11:05 Page 7 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



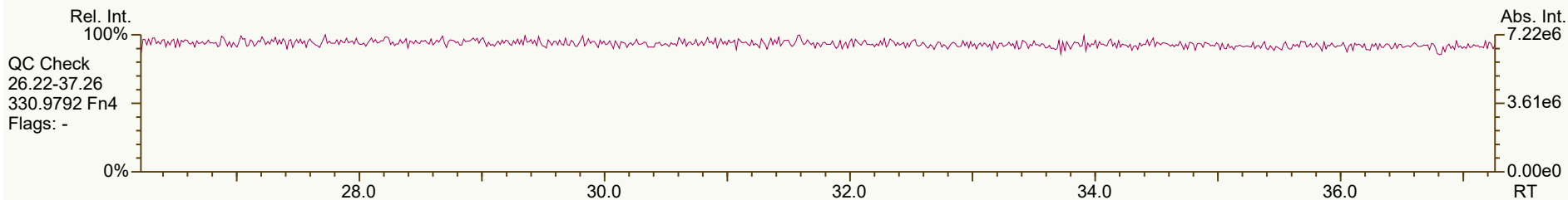
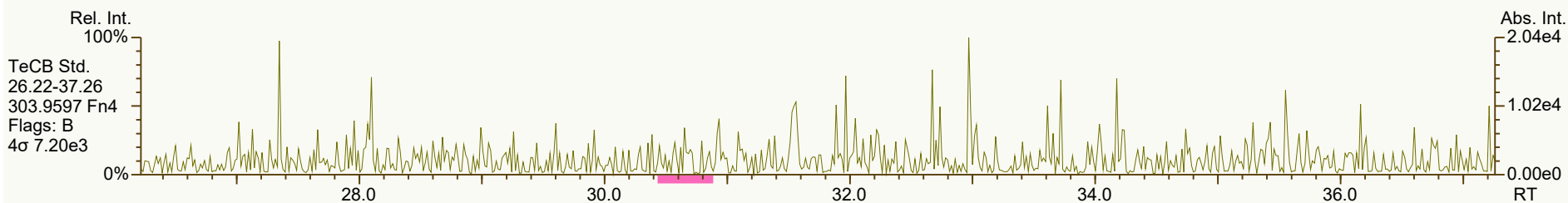
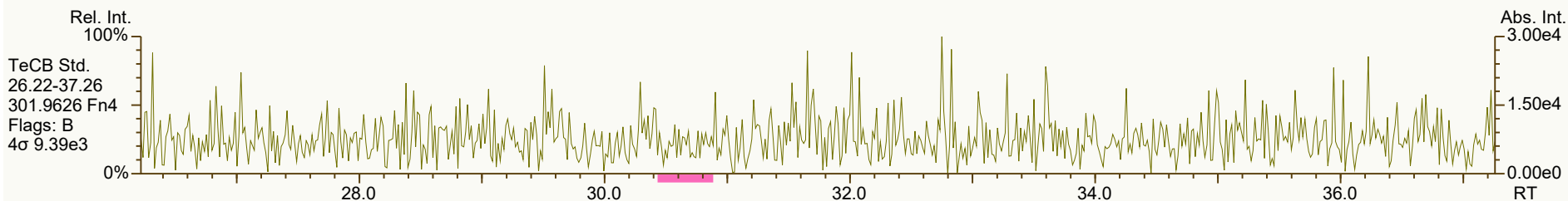
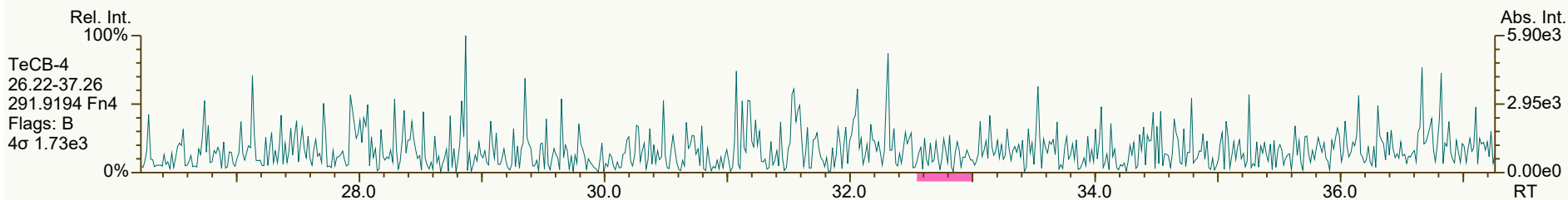
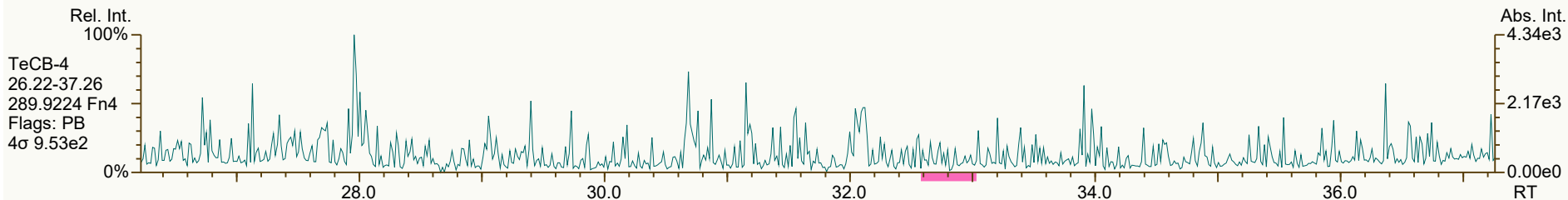
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 0782, 0947 scc: 310-929

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:12 (PSW) Printed: 20-Sep-2024 11:05 Page 8 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6225, 3916 scc: 310-929

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:12 Printed: 20-Sep-2024 11:05 Page 9 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\SB_240918_PCB_SB.utp_res, saved 19-Sep-2024 16:12 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 9277, 7457 scc: 310-929

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:12 (PSW) Printed: 20-Sep-2024 11:05 Page 10 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



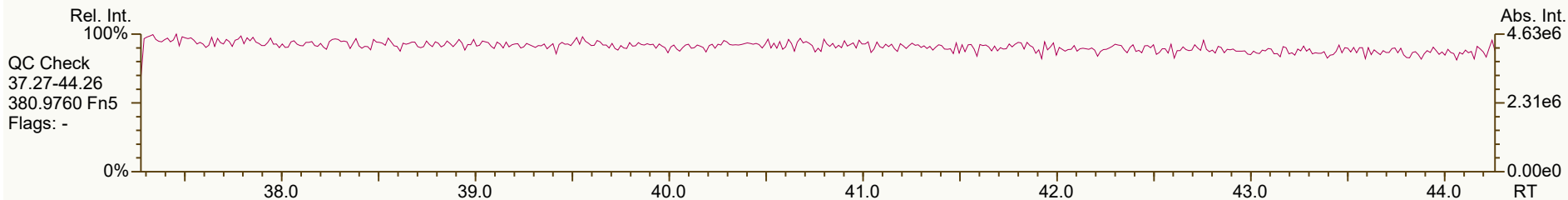
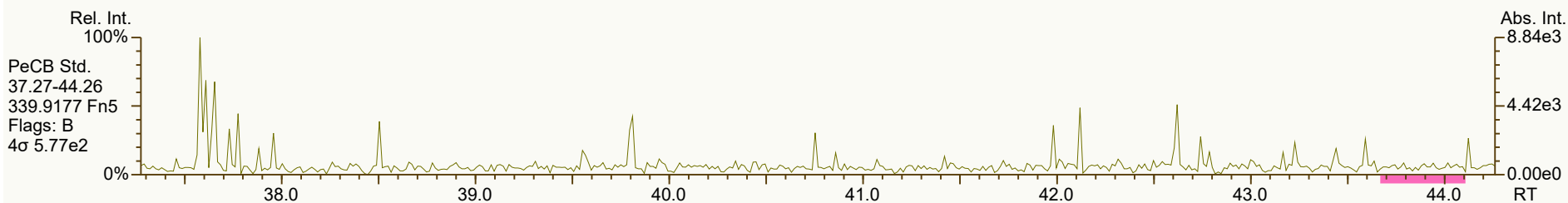
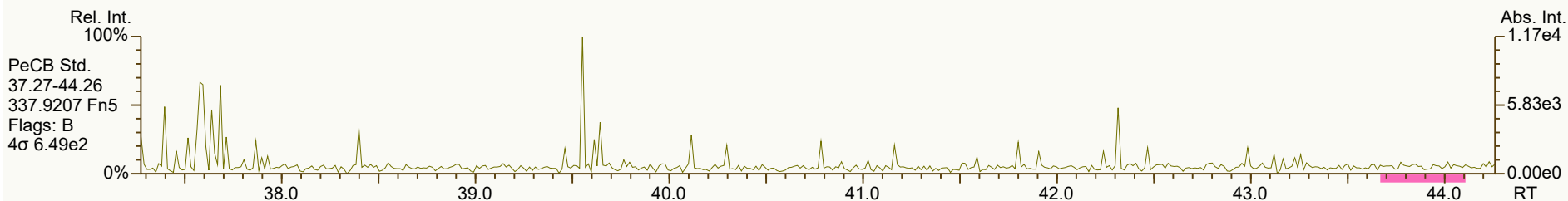
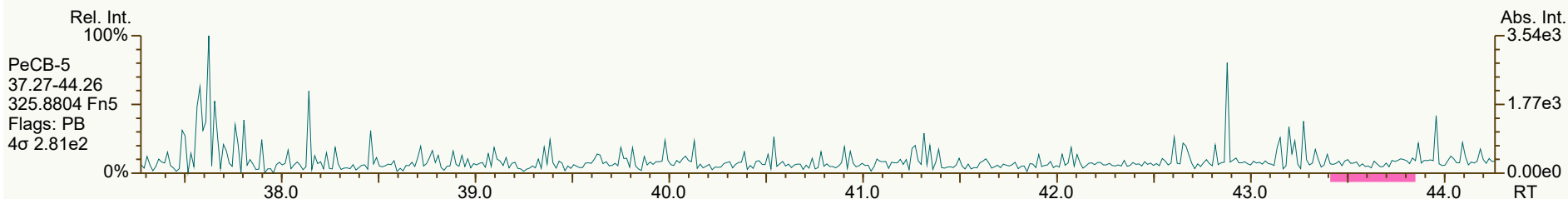
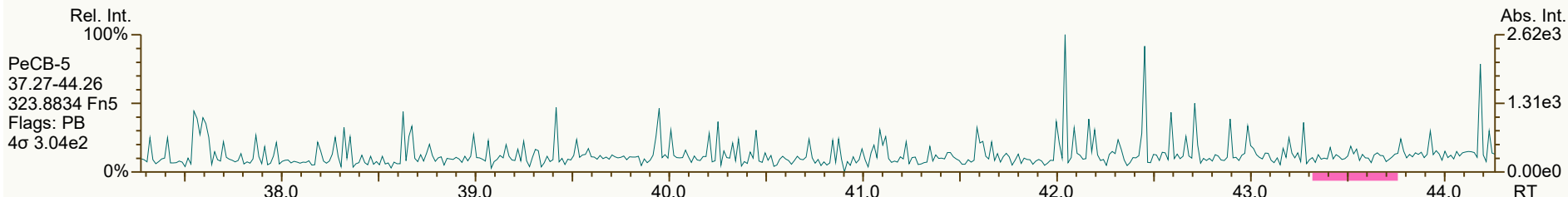
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 0794, 2087 scc: 310-929

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:12 Printed: 20-Sep-2024 11:05 Page 11 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



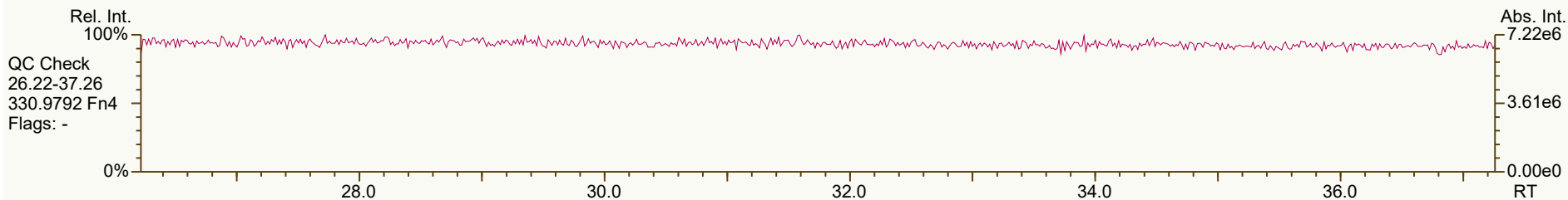
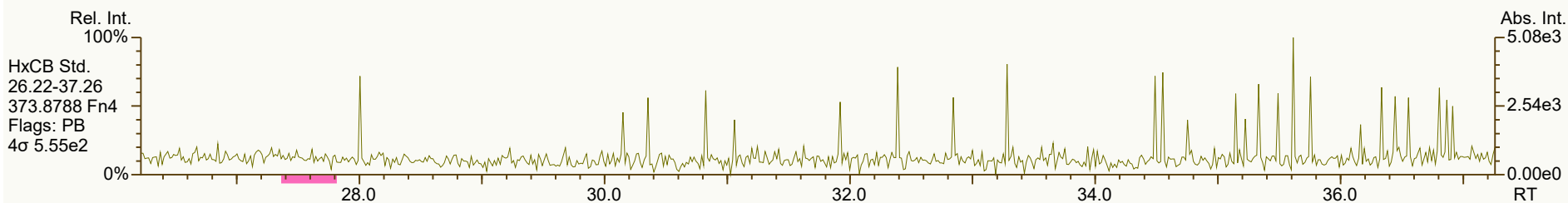
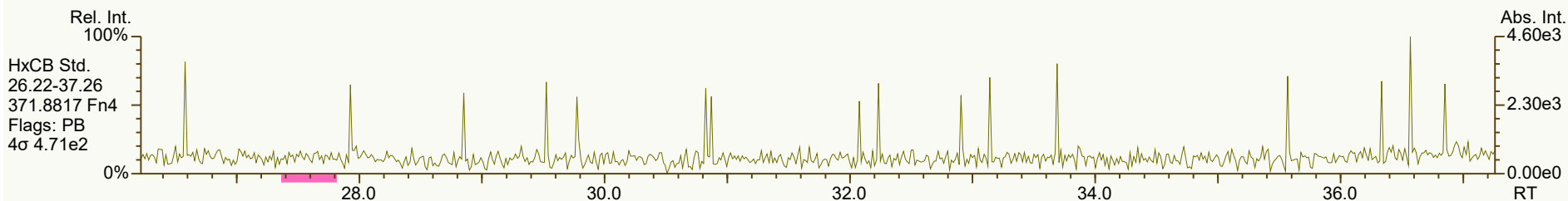
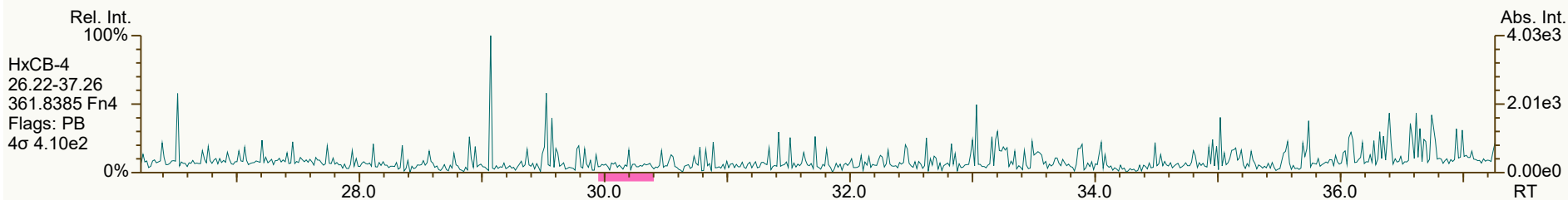
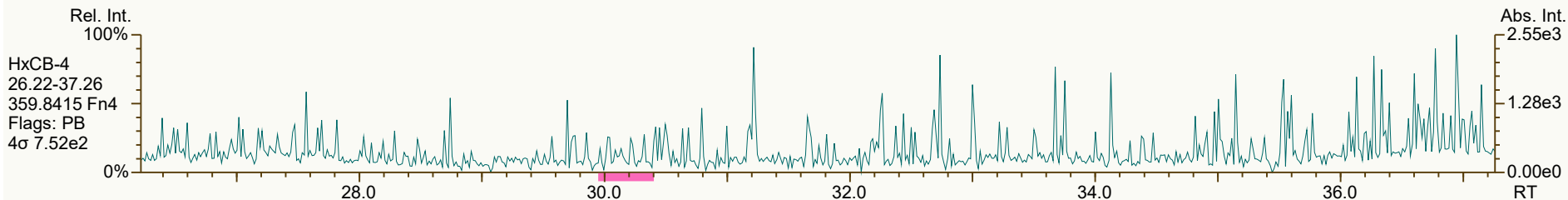
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6613, 5591 scc: 310-929

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:12 Printed: 20-Sep-2024 11:05 Page 12 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



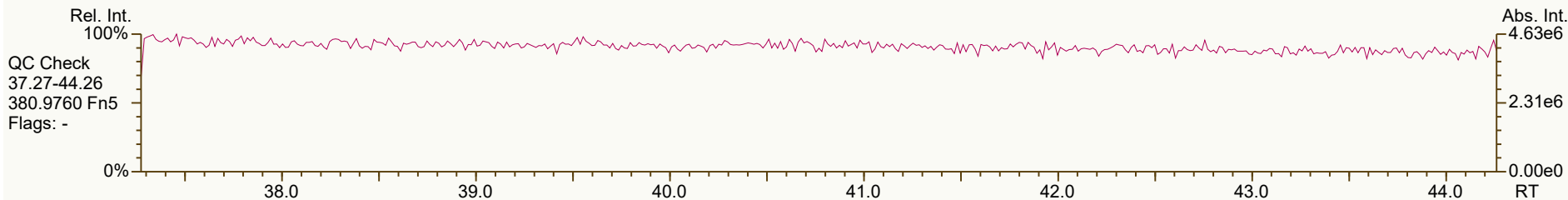
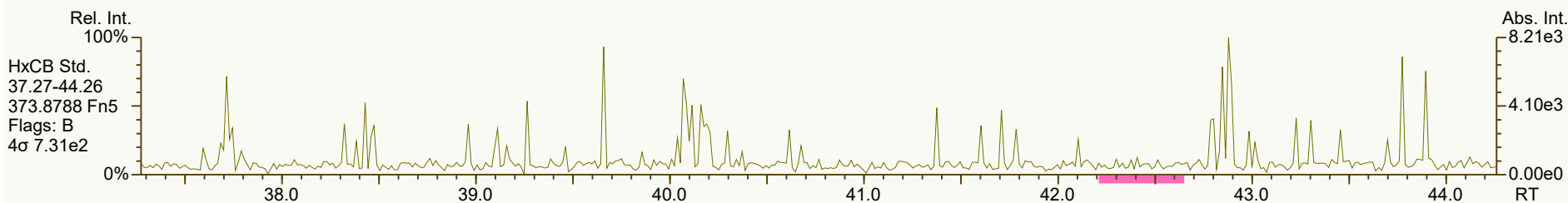
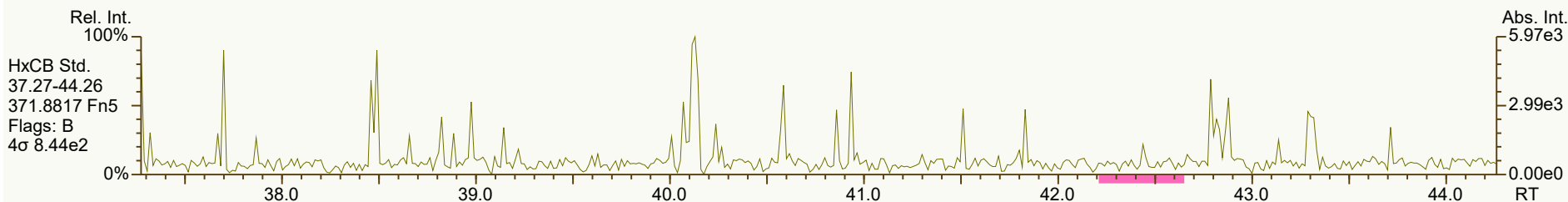
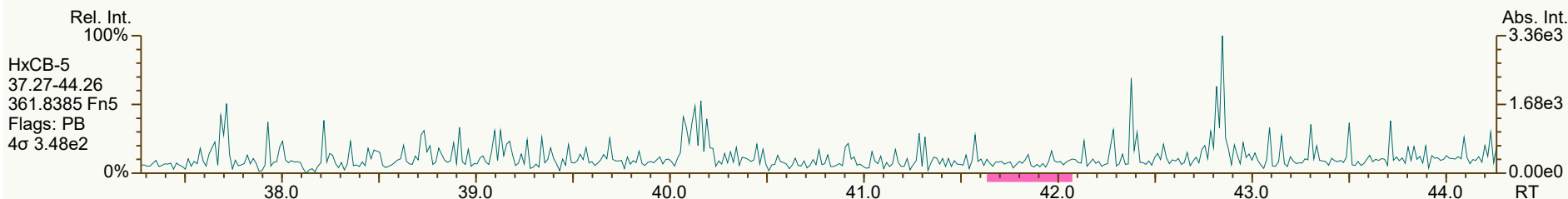
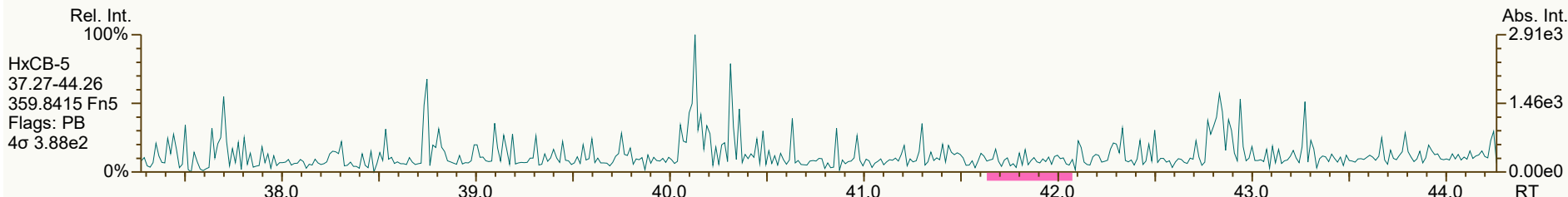
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4278, 3774 scc: 310-929

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:12 (PSW) Printed: 20-Sep-2024 11:05 Page 13 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



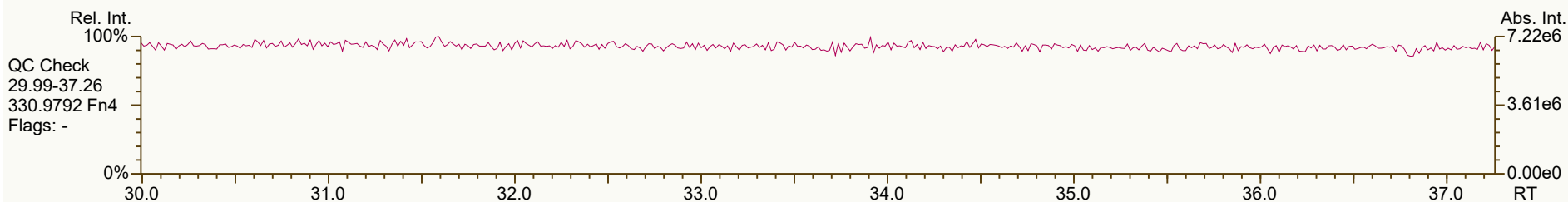
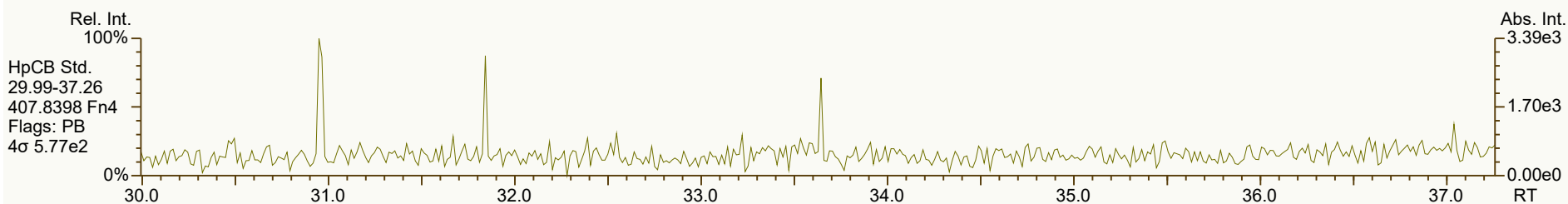
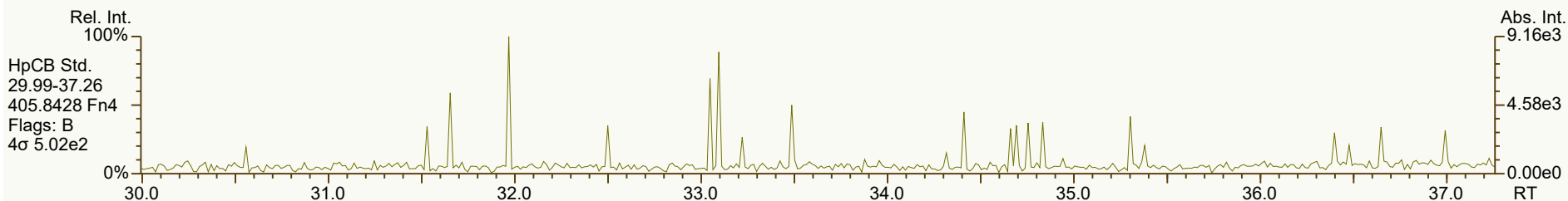
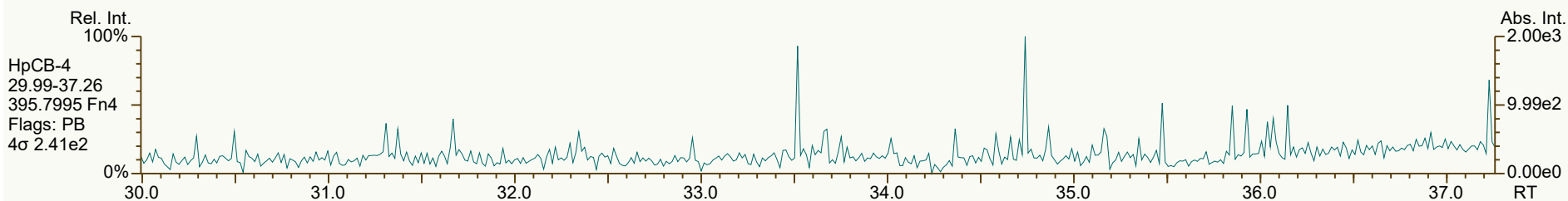
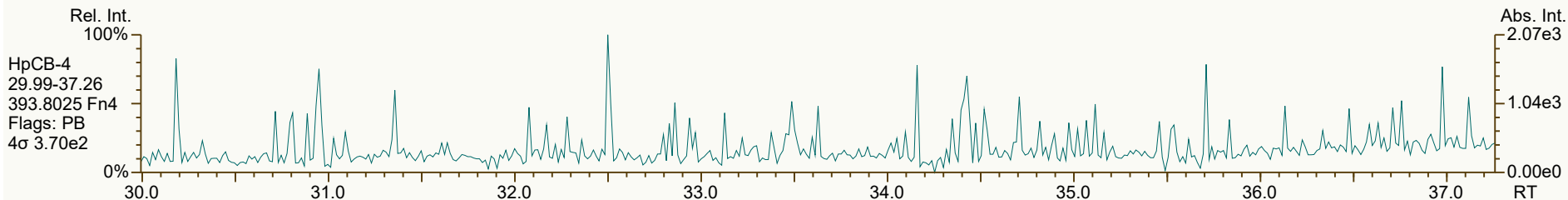
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:12 Printed: 20-Sep-2024 11:05 Page 14 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\SB_240918_PCB_SB.utp_res, saved 19-Sep-2024 16:12 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2080, 3289 scc: 310-929

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:12 Printed: 20-Sep-2024 11:05 Page 15 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



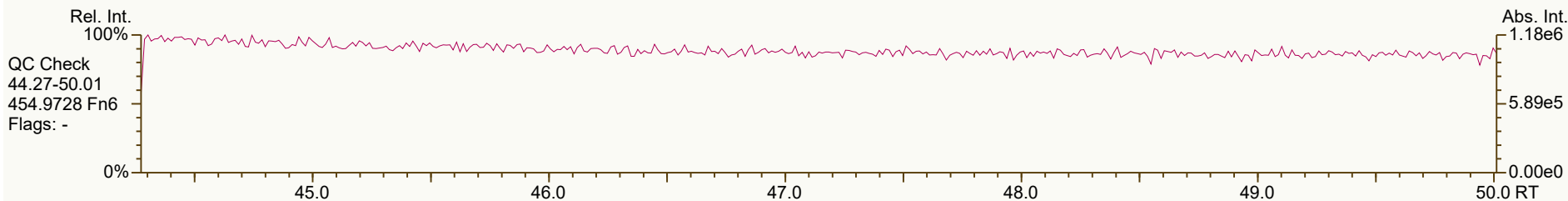
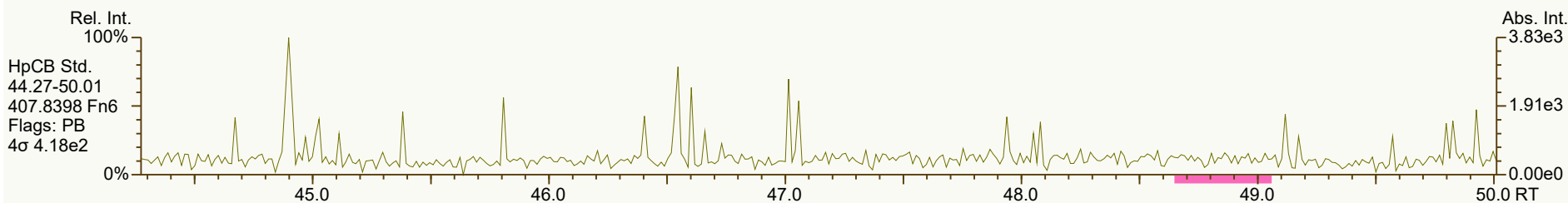
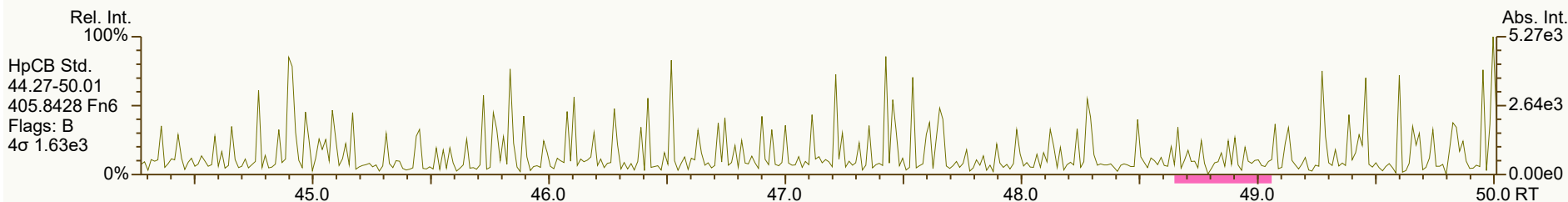
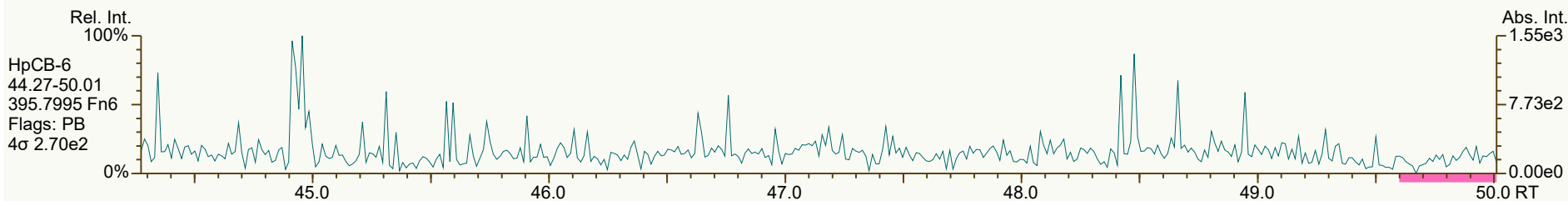
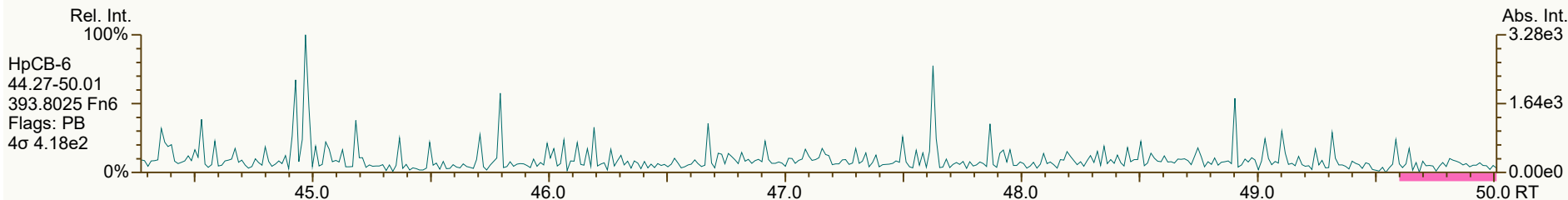
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Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:12 Printed: 20-Sep-2024 11:05 Page 16 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\SB_240918_PCB_SB.utp_res, saved 19-Sep-2024 16:12 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 2832, 1705 scc: 310-929

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:12 (PSW) Printed: 20-Sep-2024 11:05 Page 17 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



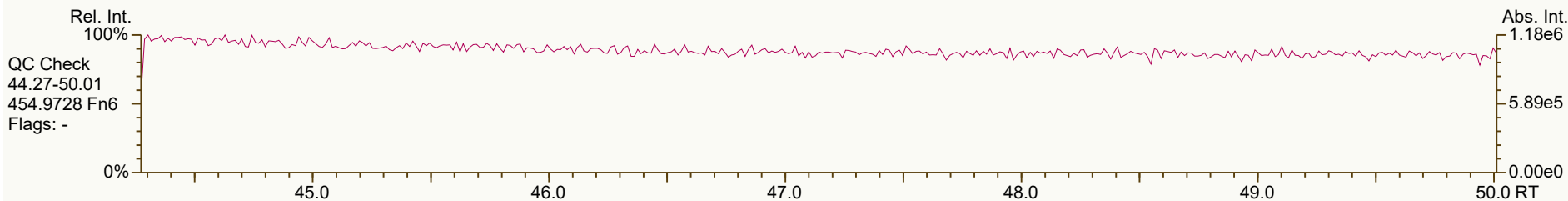
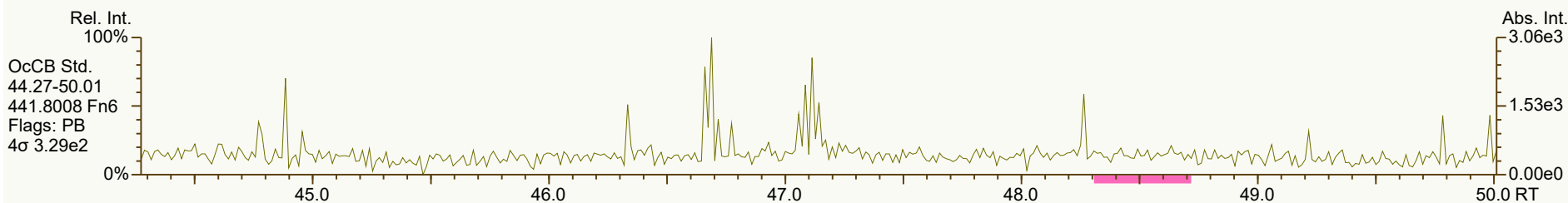
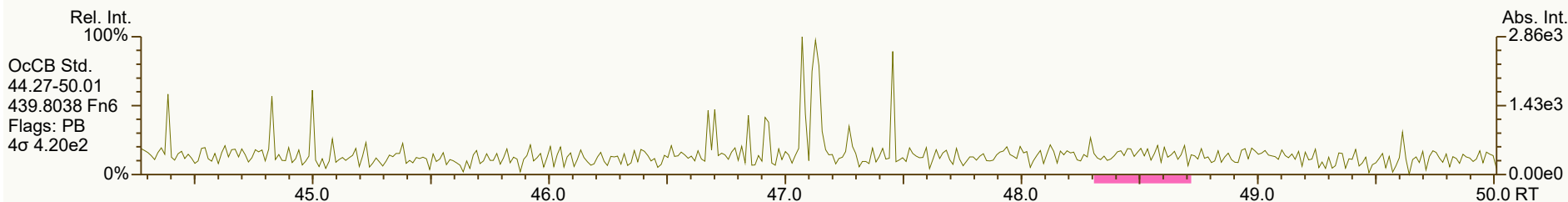
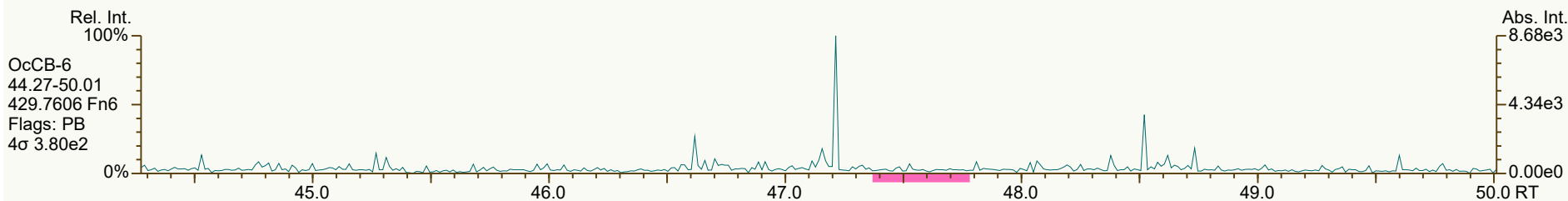
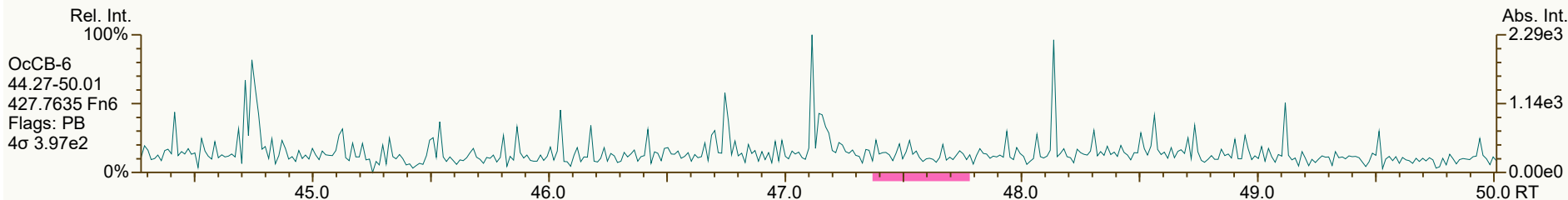
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SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 6774, 5954 scc: 310-929

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:12 (PSW) Printed: 20-Sep-2024 11:05 Page 18 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

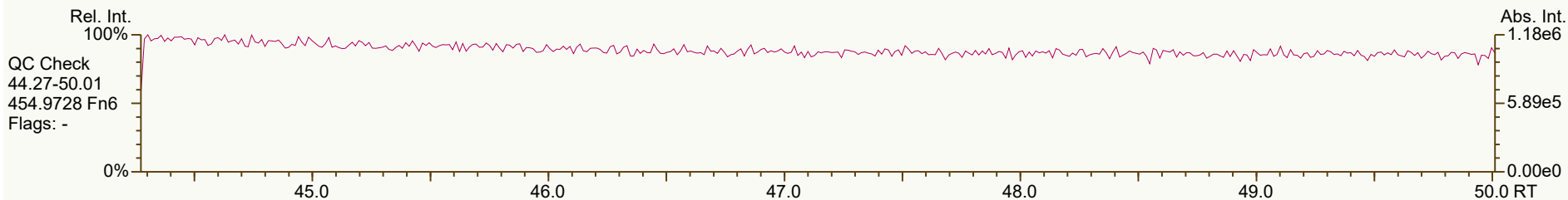
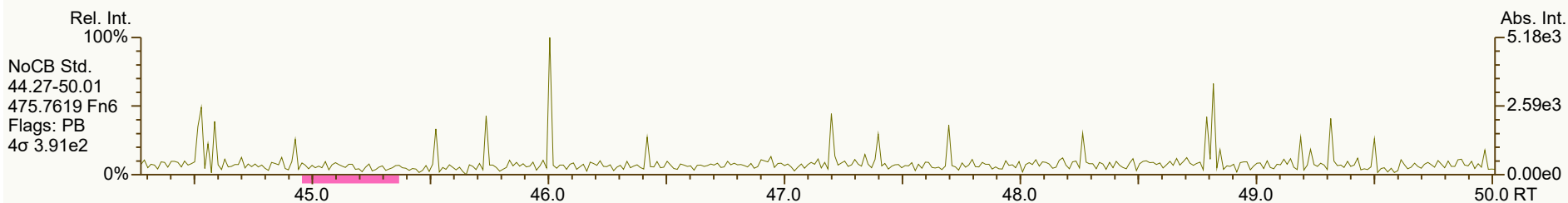
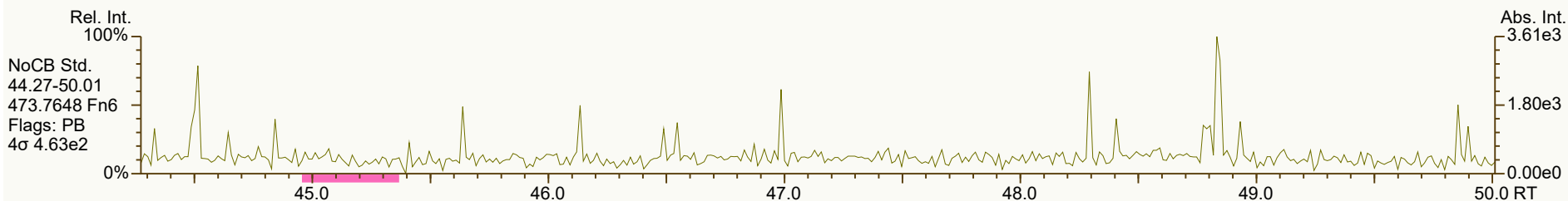
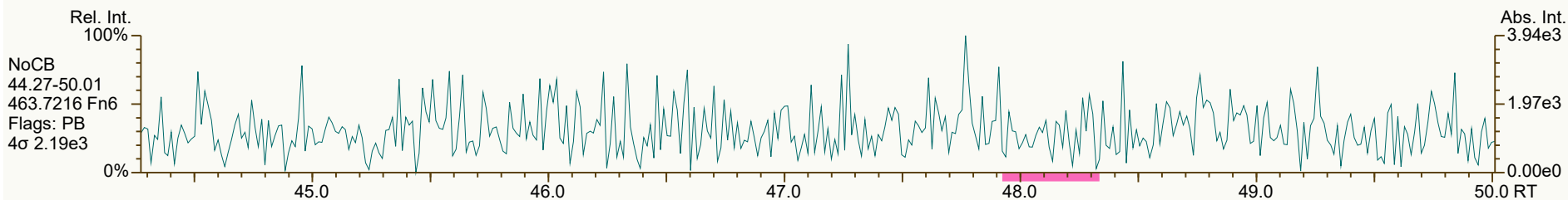
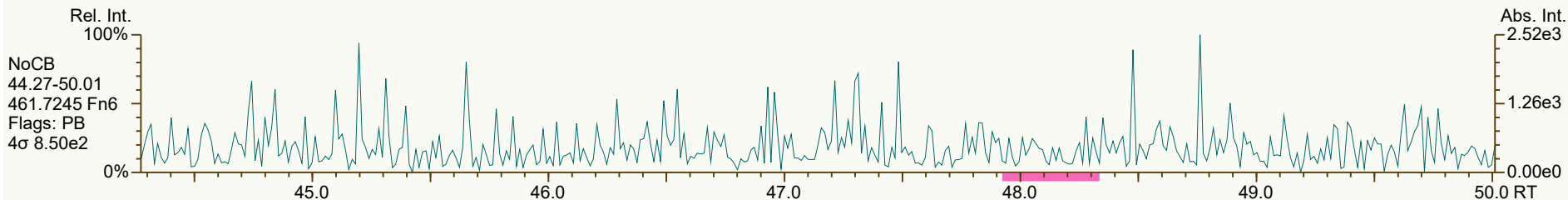
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SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



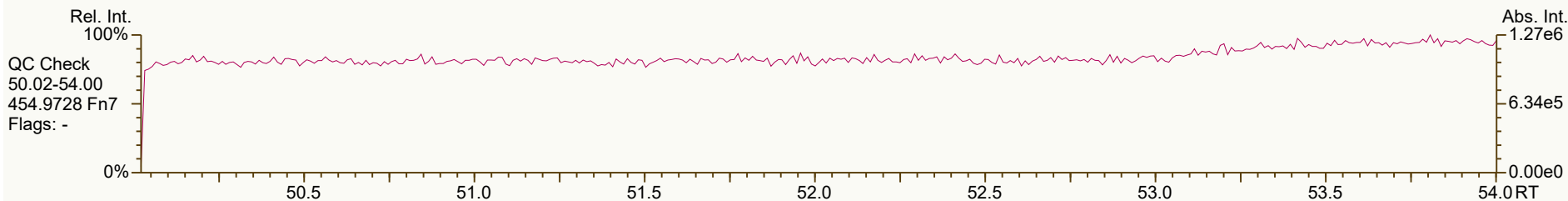
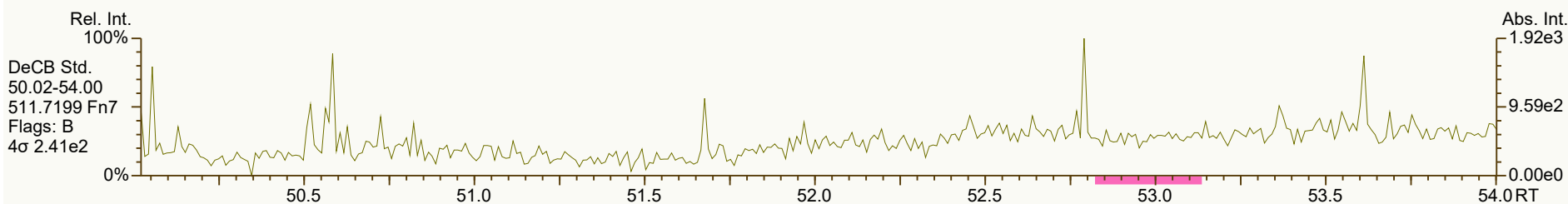
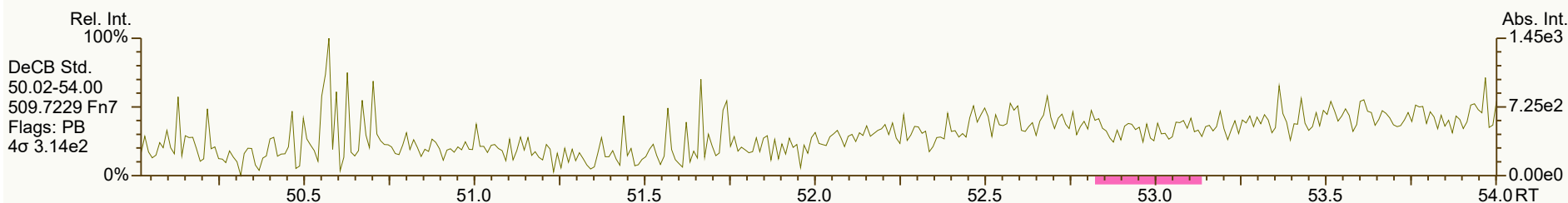
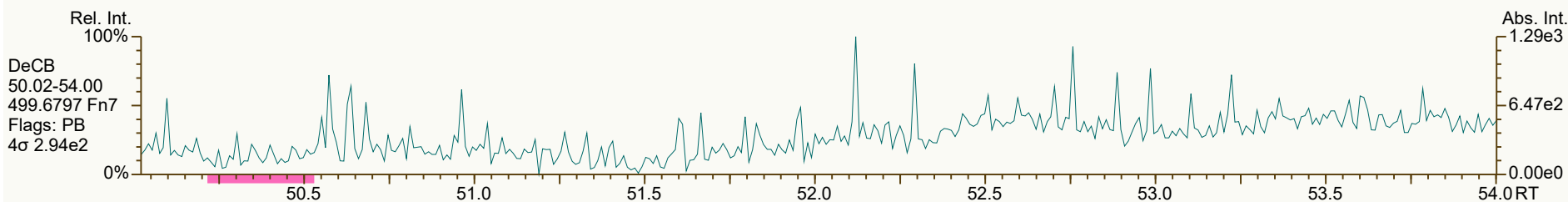
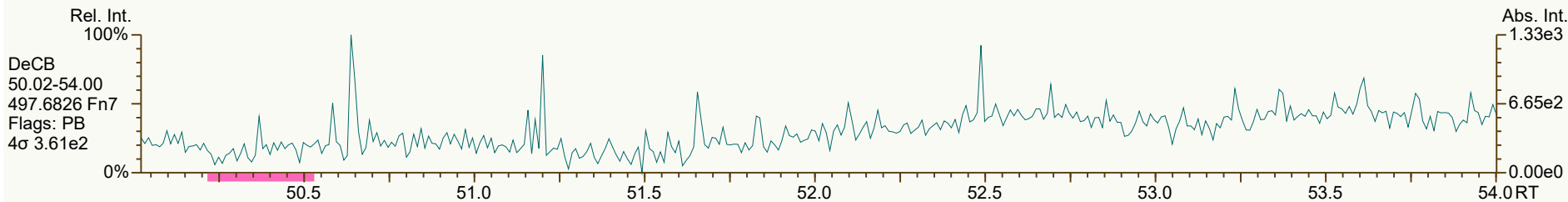
Results: P:\B9700_B9799\B9770\B9770_21382_PCB\Resources\SB_240918_PCB_SB.utp_res, saved 19-Sep-2024 16:12 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 4321, 4247 scc: 310-929

Peak annotation: Areas, Centroids
Revised: 19-Sep-2024 16:12 (PSW) Printed: 20-Sep-2024 11:05 Page 20 of 21

SGS ID: SB_240918_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 18-Sep-2024 15:15:12
User: RAB Datafile: 240918S05



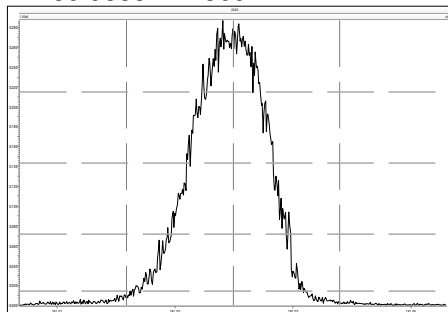
Results: P:\B9700_B9799\B9770\B9770_21382 PCB\Resources\SB_240918_PCB_SB.utp_res, saved 19-Sep-2024 16:12 (PSW)
SGS UltraTrace-Pro V5.12 User/System: PSW/USPF22P92Q cc: 7900, 7741 scc: 310-929

Peak annotation: Areas, Centroids
PKD: 19-Sep-2024 16:12 Printed: 20-Sep-2024 11:05 Page 21 of 21

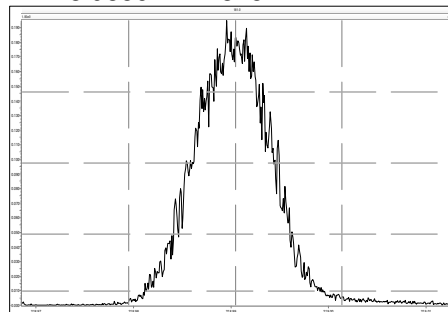
File: Experiment: pcb-2016.exp Reference: Pfk6.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, September 17, 2024 12:58:55 Eastern Daylight Time

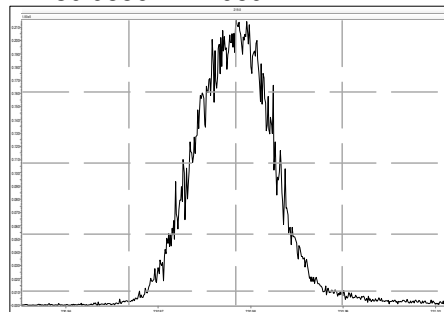
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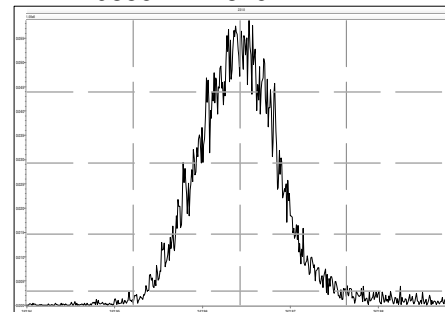
M 218.9856 R 11845



M 230.9856 R 11959



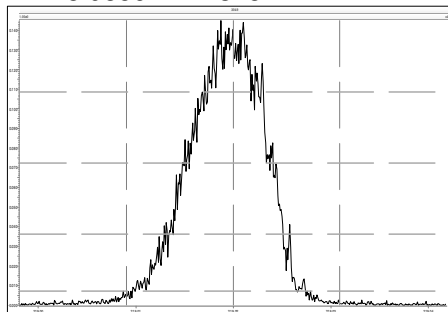
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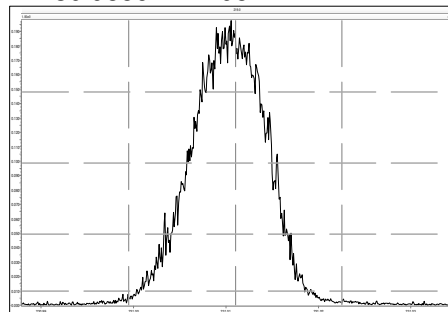
File: Experiment: pcb-2016.exp Reference: Pfk6.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, September 17, 2024 12:59:10 Eastern Daylight Time

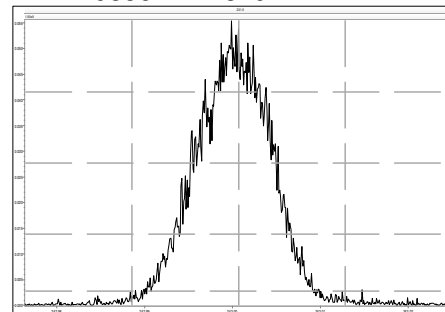
M 218.9856 R 12318



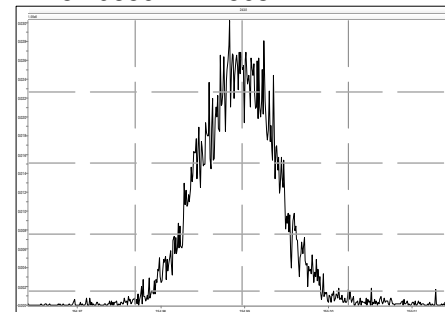
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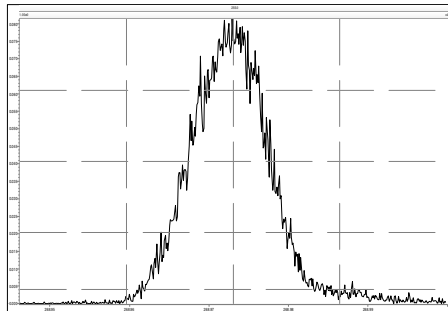
M 242.9856 R 12820



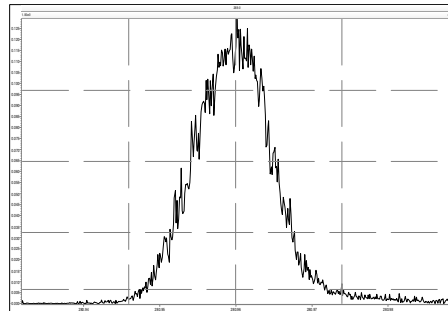
M 254.9856 R 12563



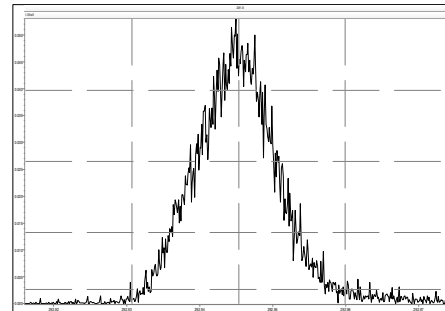
M 268.9824 R 12631



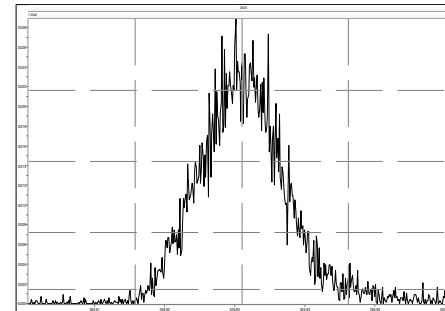
M 280.9824 R 11843



M 292.9824 R 12314



M 304.9824 R 11630



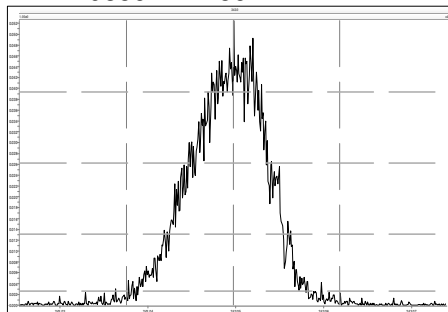
Experiment Calibration Report**MassLynx 4.1 SCN815**

Page 1 of 1

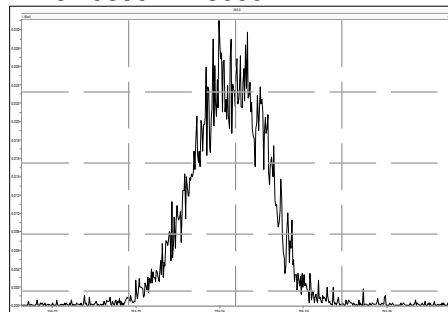
File: Experiment: pcb-2016.exp Reference: Pfk6.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, September 17, 2024 12:59:28 Eastern Daylight Time

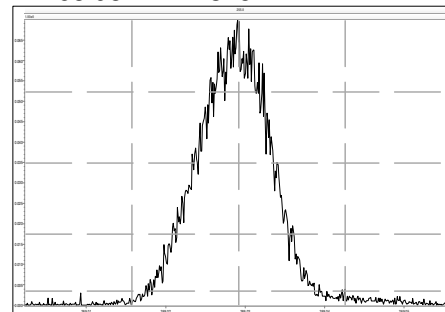
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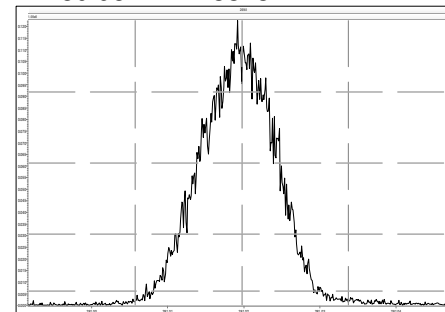
M 254.9856 R 13660



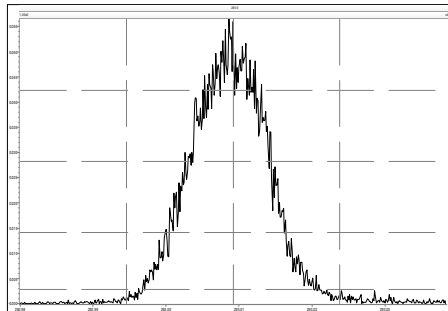
M 268.9824 R 13151



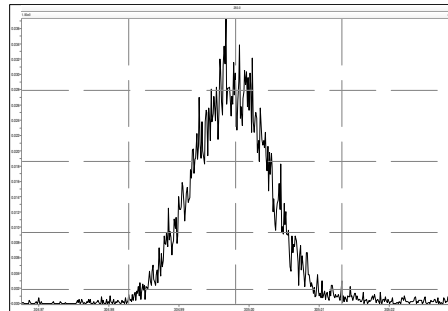
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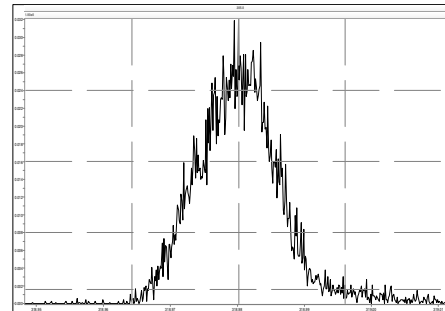
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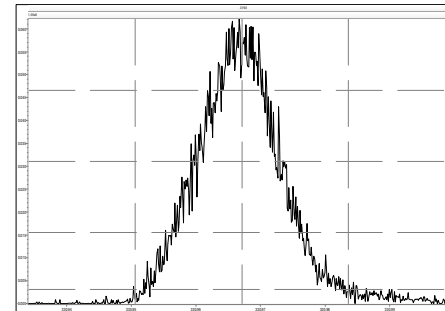
M 304.9824 R 12625



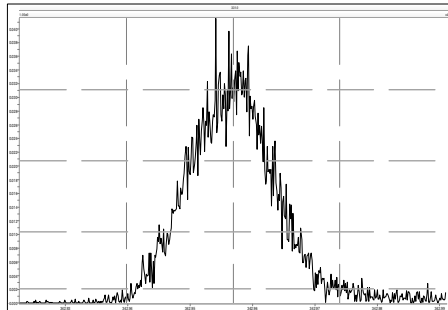
M 318.9792 R 12687



M 330.9792 R 11062



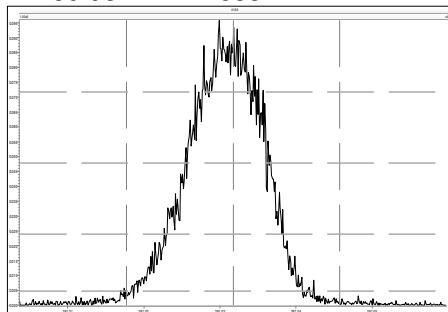
M 342.9792 R 11163



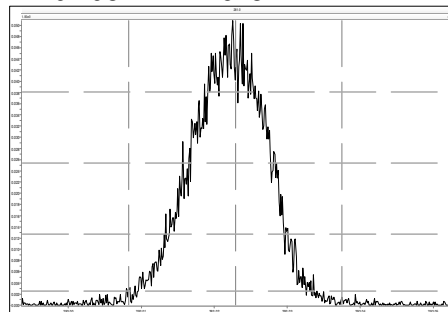
File: Experiment: pcb-2016.exp Reference: Pfk6.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, September 17, 2024 12:59:52 Eastern Daylight Time

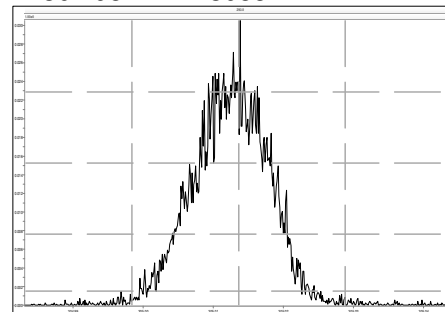
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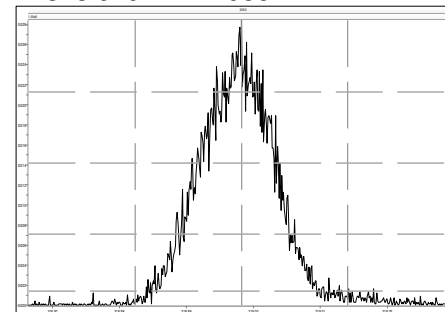
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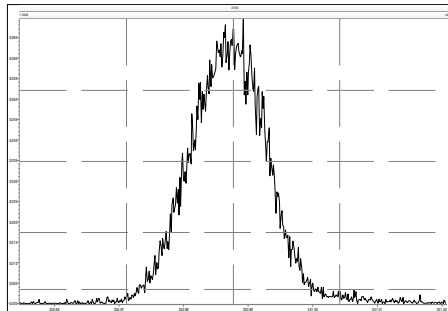
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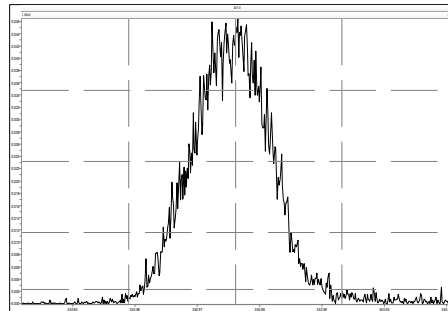
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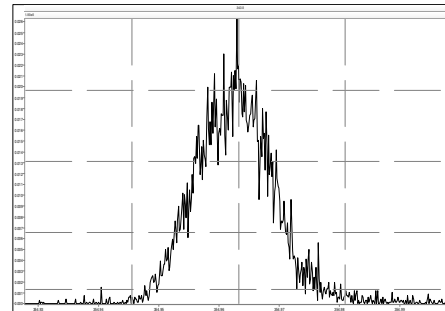
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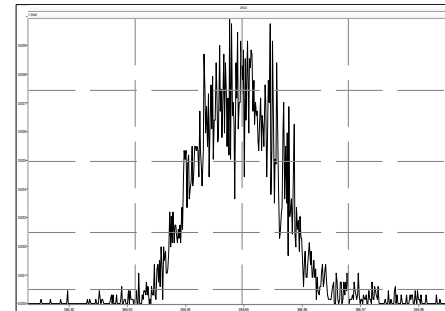
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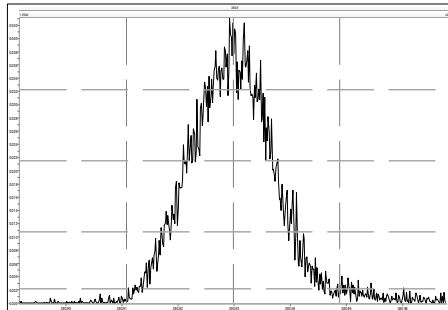
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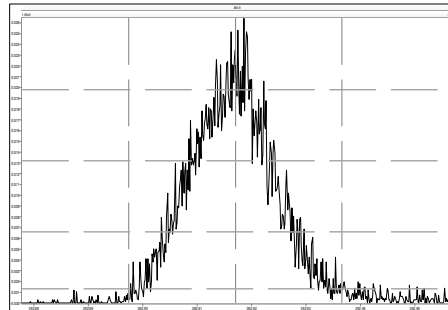
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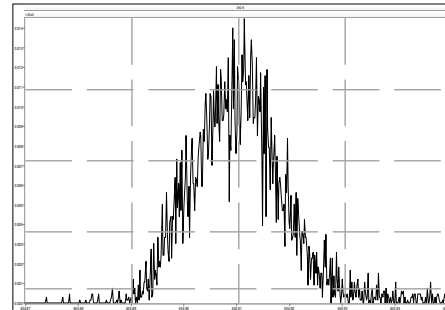
M 380.9760 R 11794



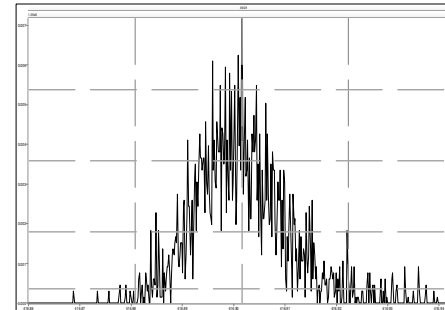
M 392.9760 R 12077



M 404.9760 R 12624



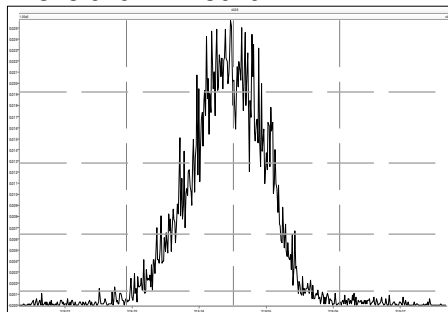
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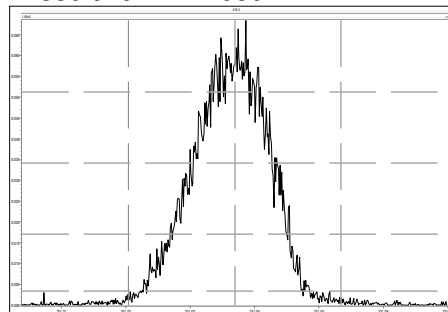
File: Experiment: pcb-2016.exp Reference: Pfk6.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, September 17, 2024 13:00:16 Eastern Daylight Time

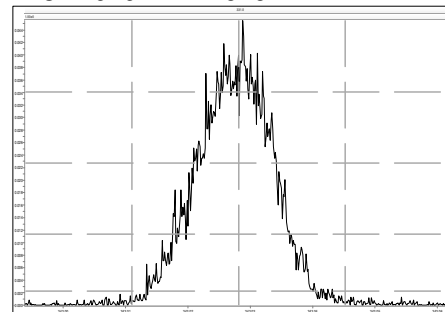
M 318.9792 R 13020



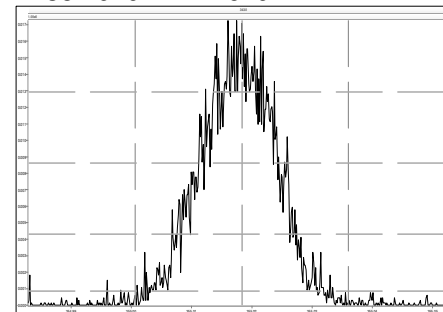
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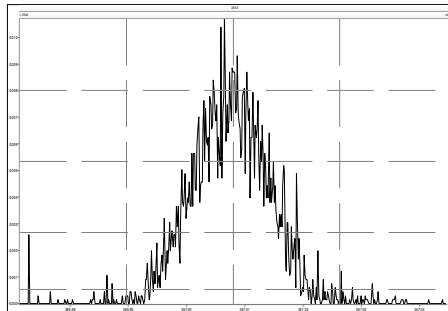
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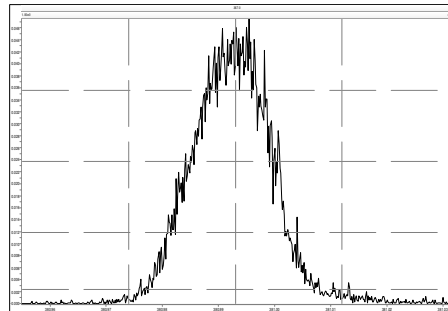
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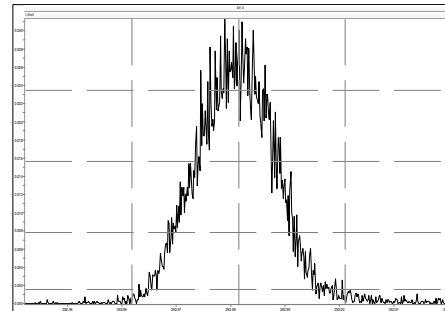
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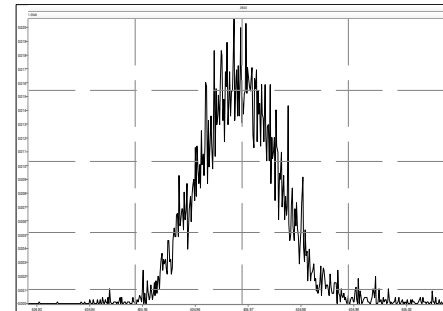
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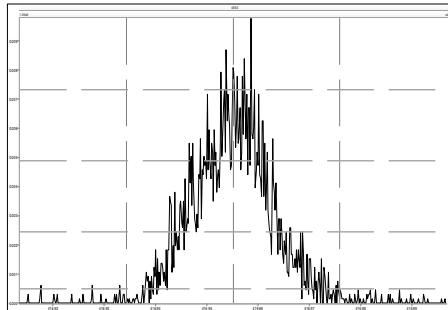
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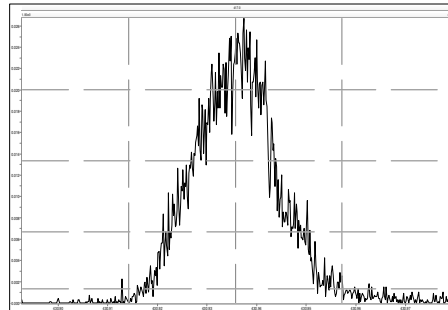
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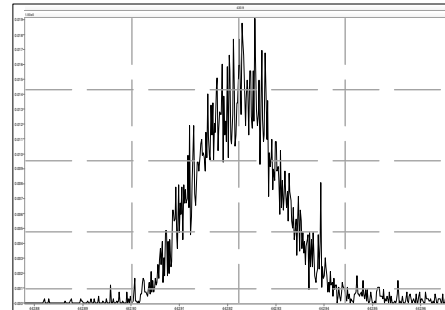
M 416.9760 R 12757



M 430.9728 R 13021



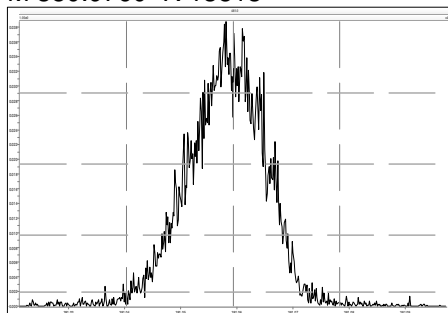
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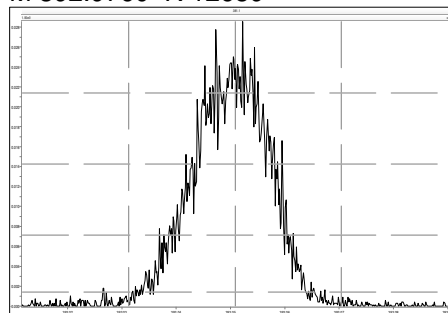
File: Experiment: pcb-2016.exp Reference: Pfk6.ref Function: 6 @ 200 (ppm)

Printed: Tuesday, September 17, 2024 13:00:36 Eastern Daylight Time

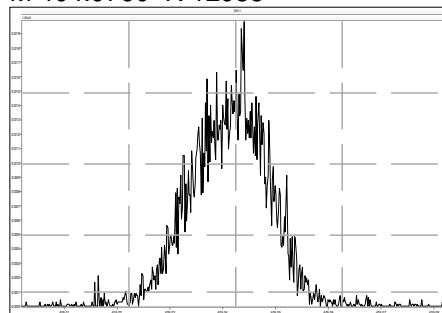
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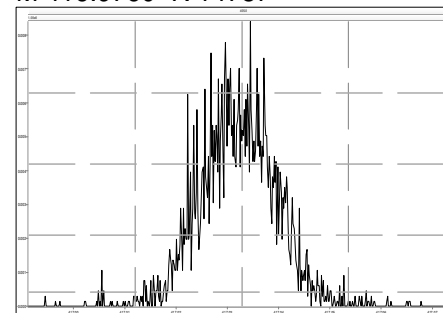
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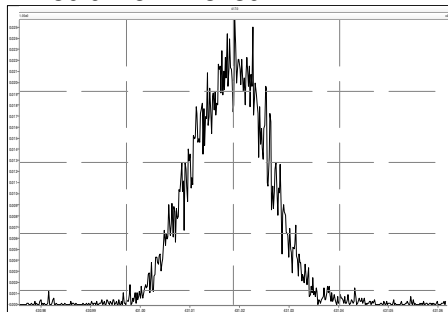
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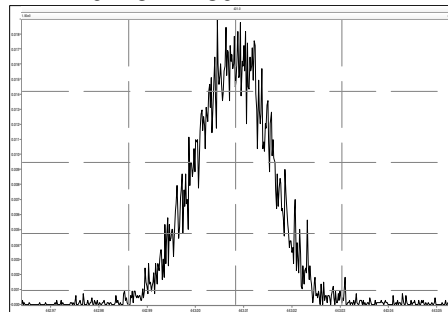
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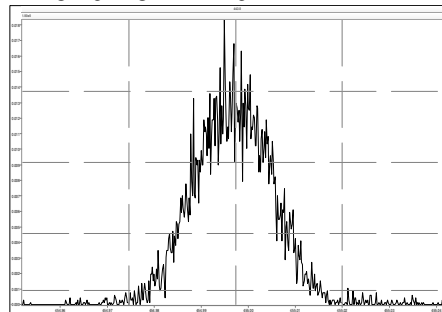
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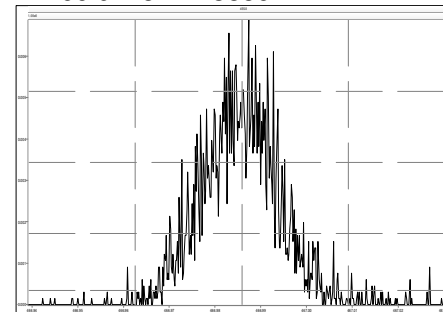
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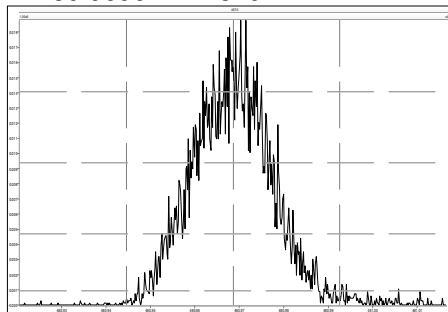
M 454.9728 R 14797



M 466.9728 R 13886



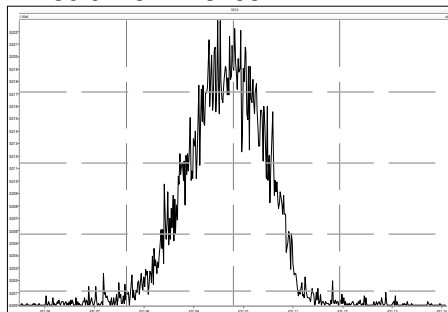
M 480.9696 R 12820



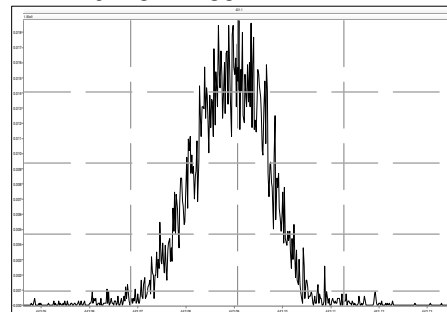
File: Experiment: pcb-2016.exp Reference: Pfk6.ref Function: 7 @ 200 (ppm)

Printed: Tuesday, September 17, 2024 13:00:53 Eastern Daylight Time

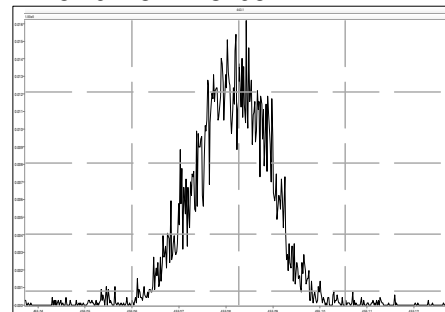
M 430.9728 R 13158



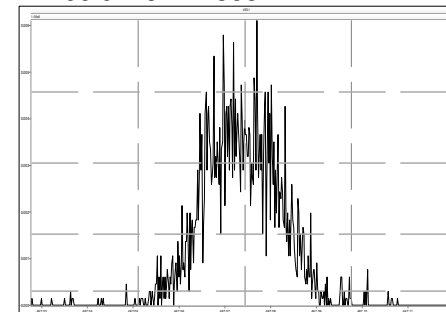
M 442.9728 R 13512



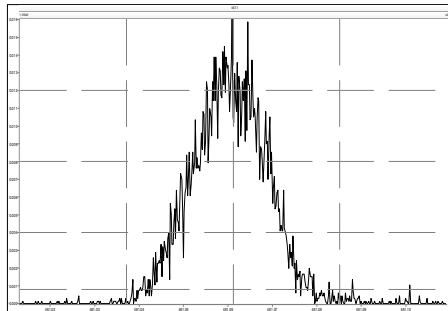
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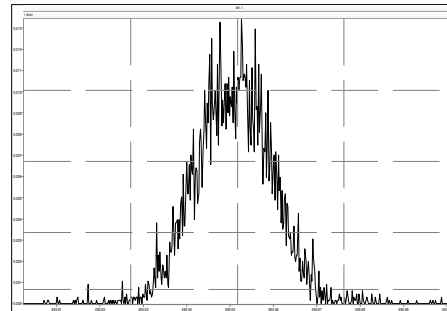
M 466.9728 R 13587



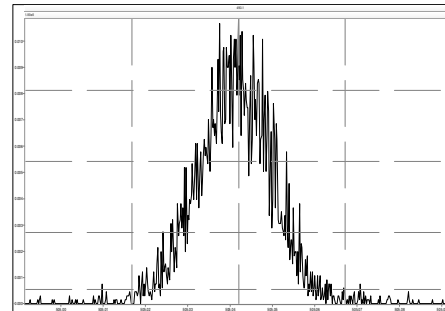
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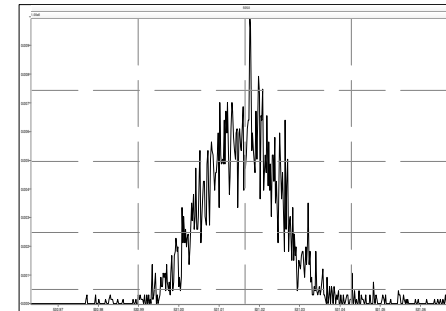
M 492.9696 R 13514



M 504.9696 R 14534

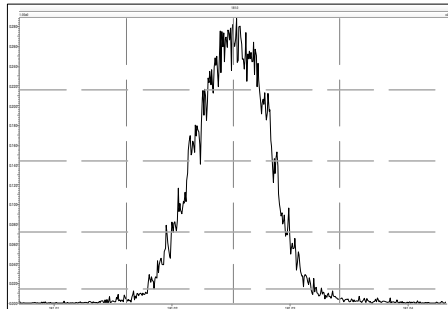


M 530.9664 R 12820

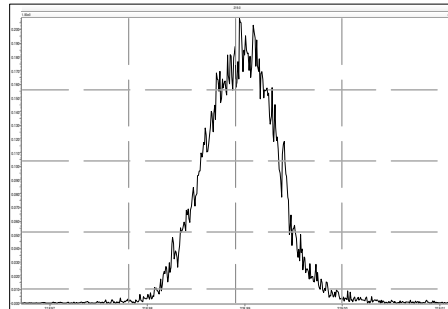


Printed: Tuesday, September 17, 2024 21:03:25 Eastern Daylight Time

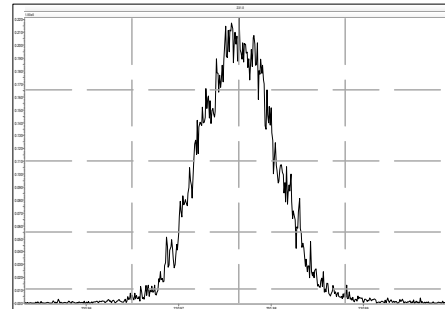
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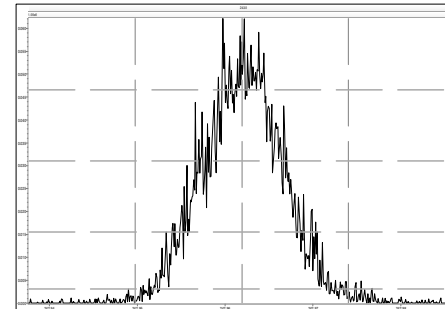
M 218.9856 R 13158



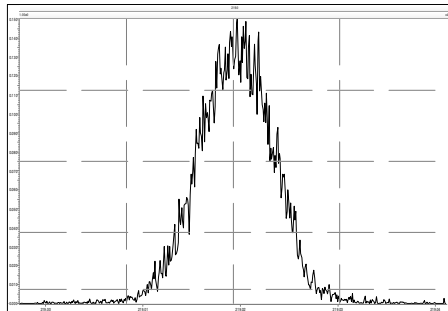
M 230.9856 R 12820



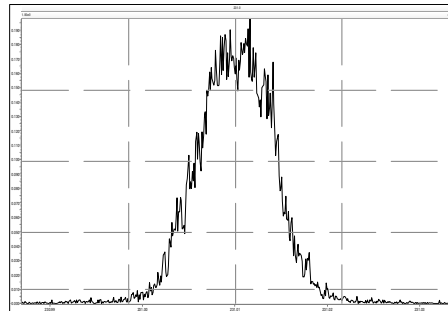
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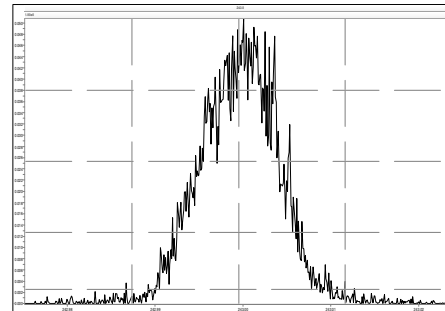
M 218.9856 R 13440



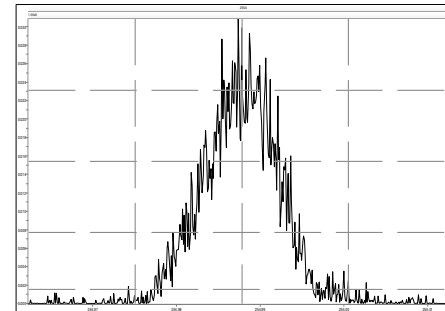
M 230.9856 R 12922



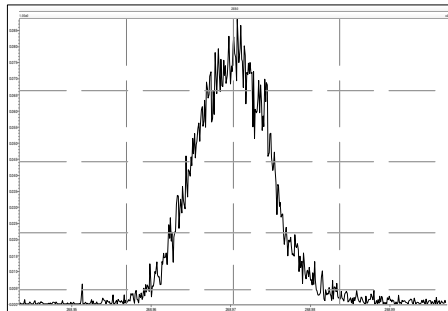
M 242.9856 R 13158



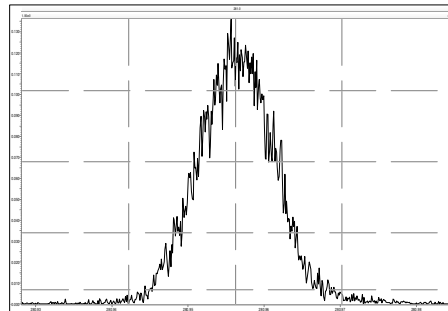
M 254.9856 R 13706



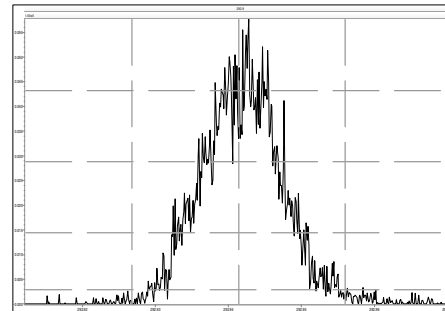
M 268.9824 R 12987



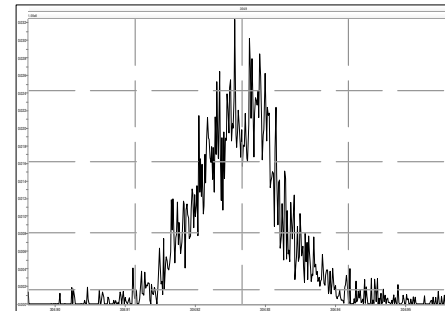
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M 292.9824 R 13037

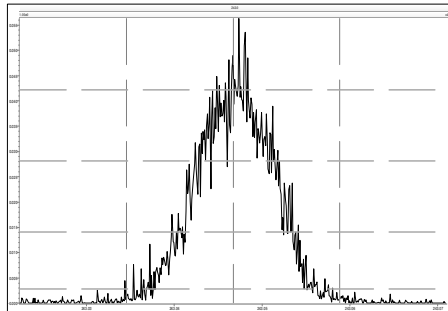


M 304.9824 R 13018

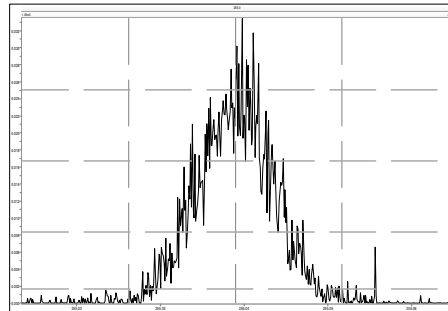


Printed: Tuesday, September 17, 2024 21:03:25 Eastern Daylight Time

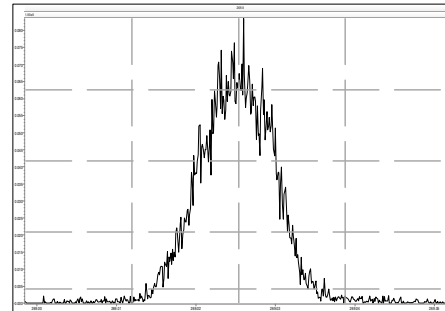
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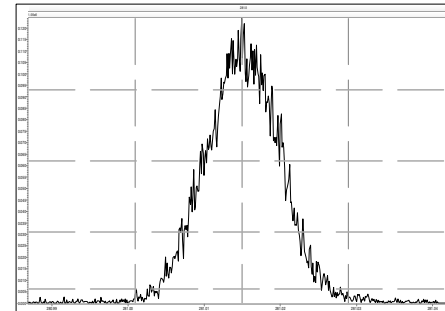
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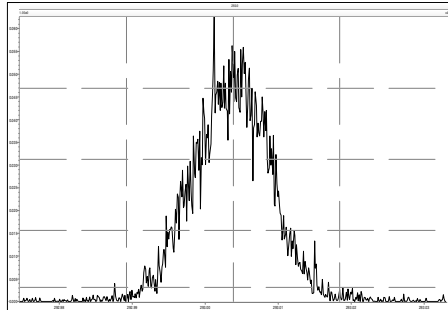
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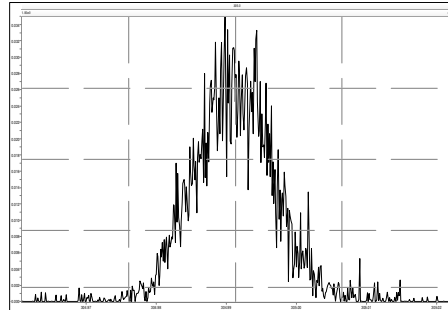
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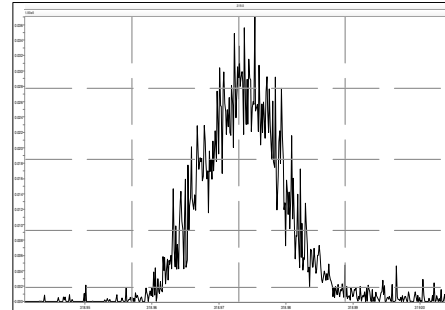
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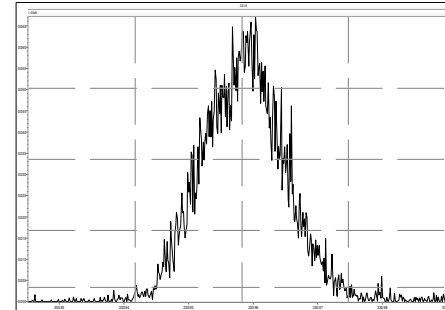
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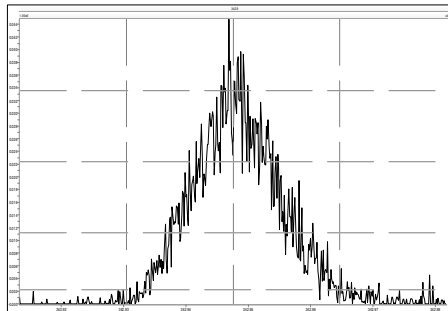
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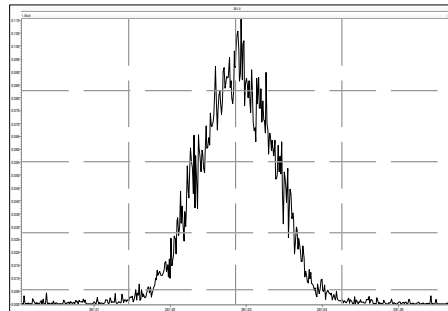
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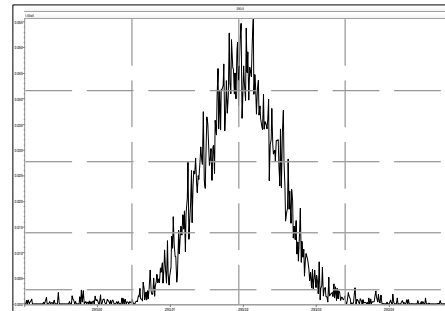
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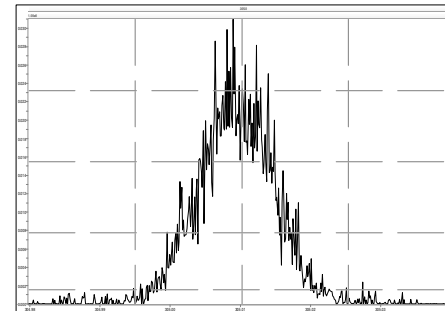
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M 292.9824 R 13122

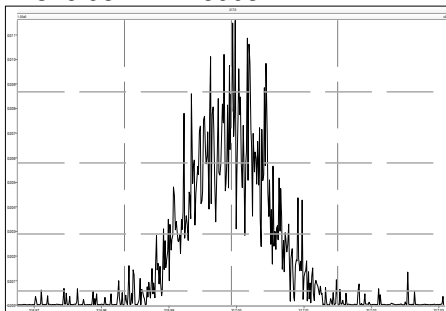


M 304.9824 R 13251

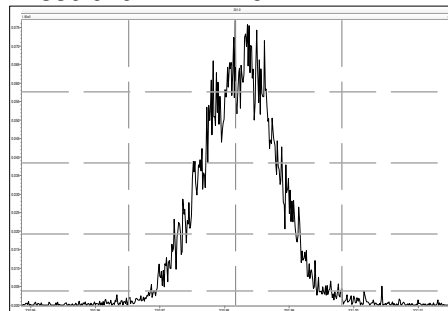


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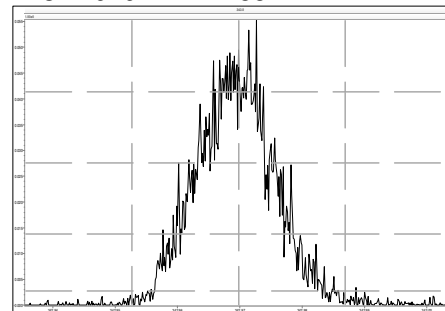
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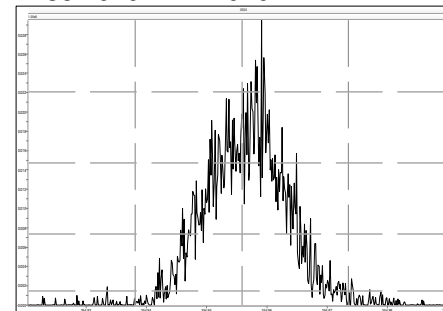
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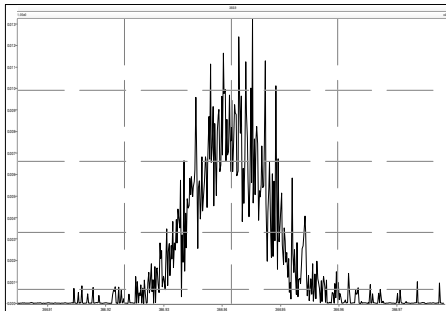
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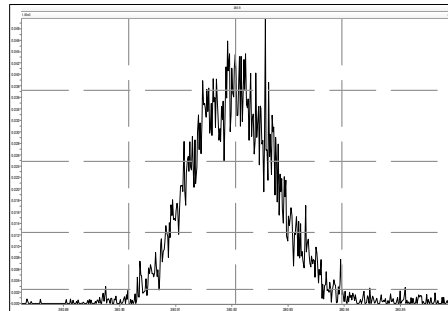
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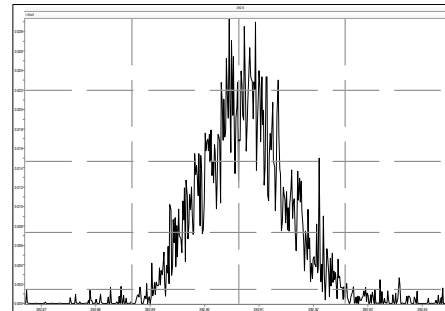
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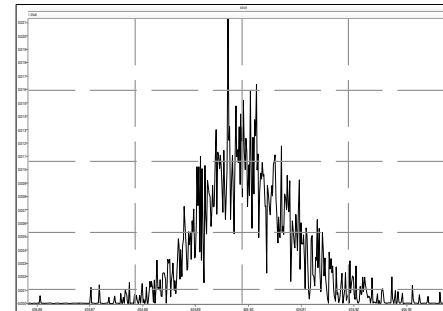
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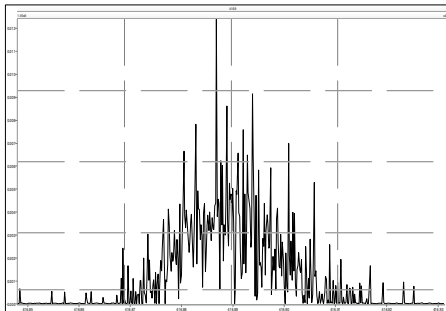
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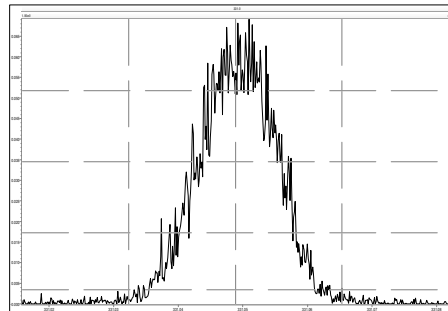
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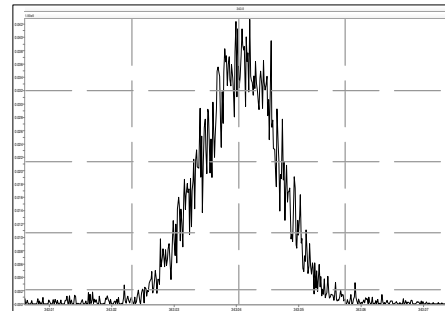
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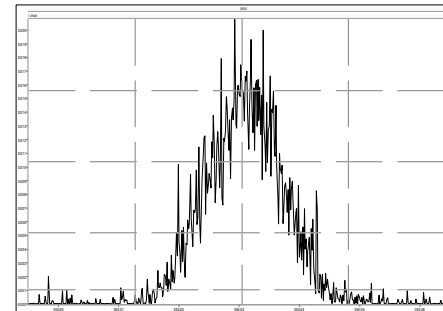
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M 342.9792 R 13166

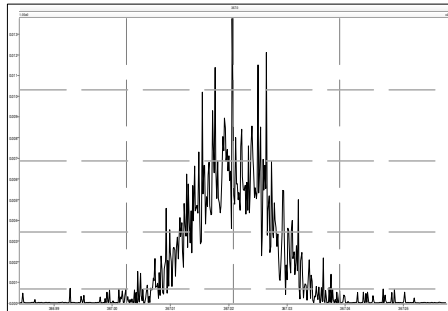


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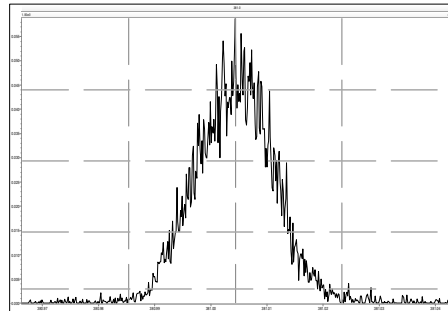


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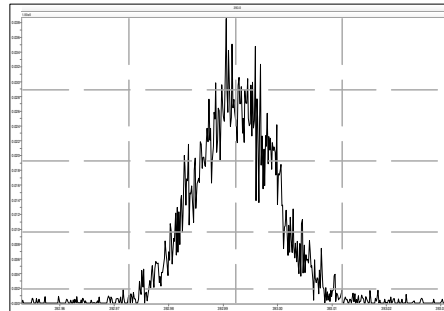
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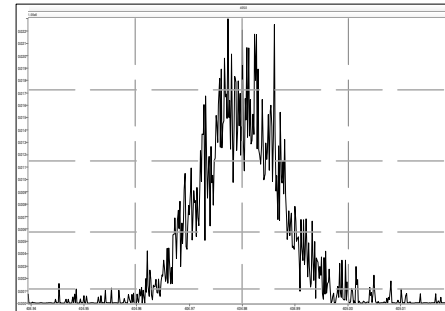
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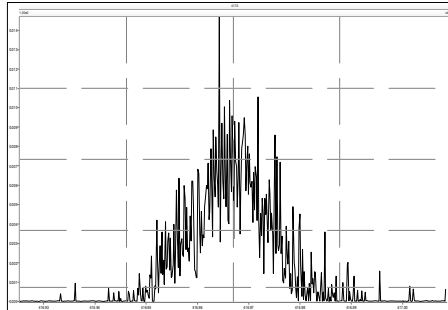
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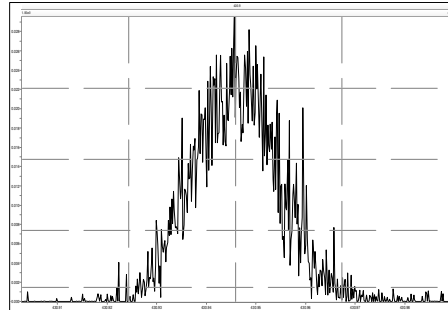
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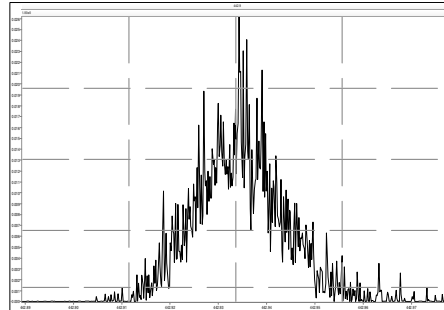
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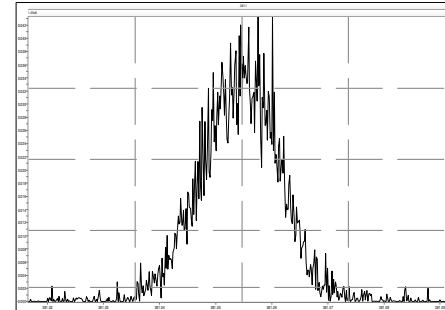
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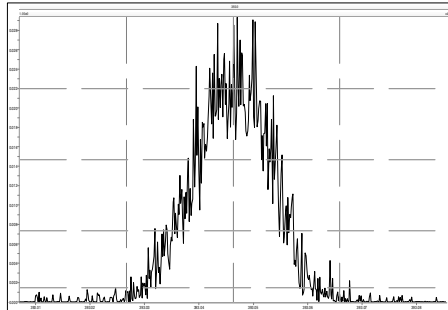
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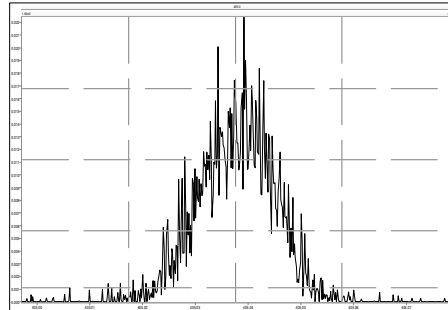
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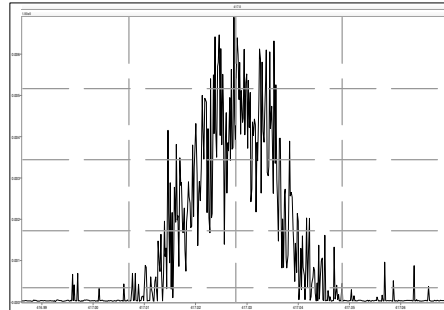
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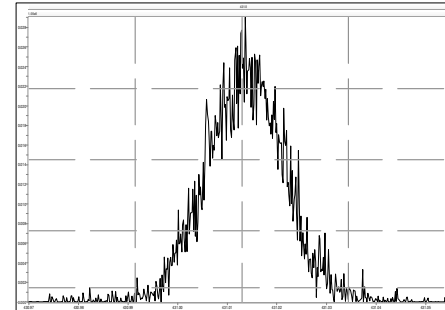
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M 416.9760 R 16948

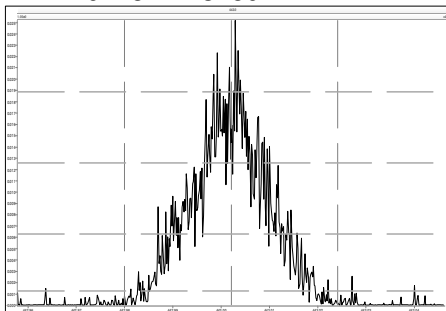


M 430.9728 R 13777

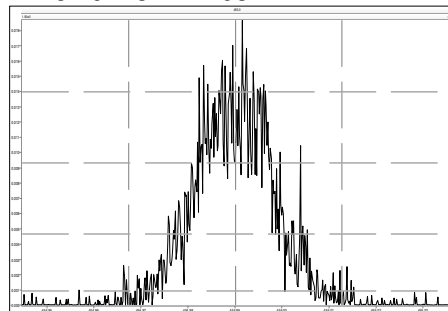


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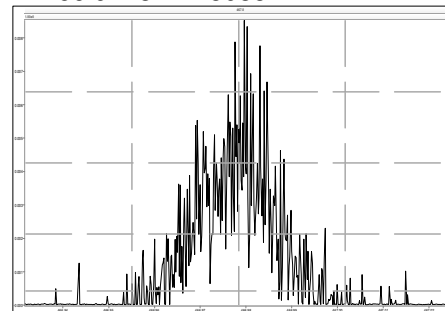
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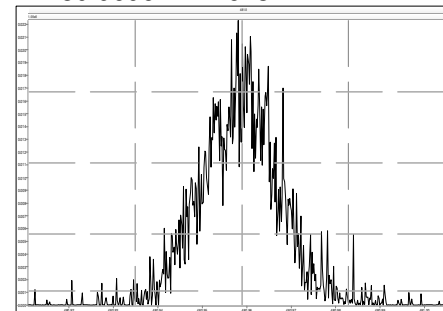
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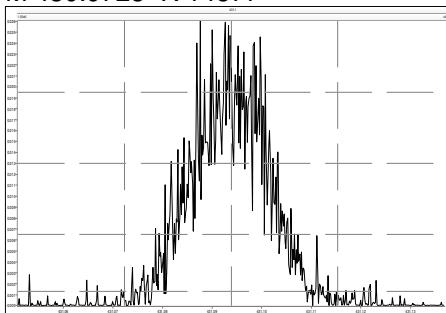
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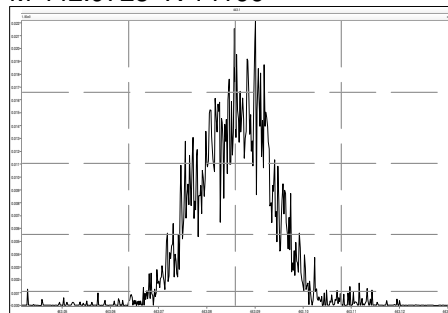
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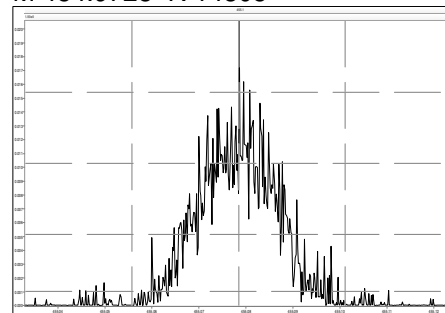
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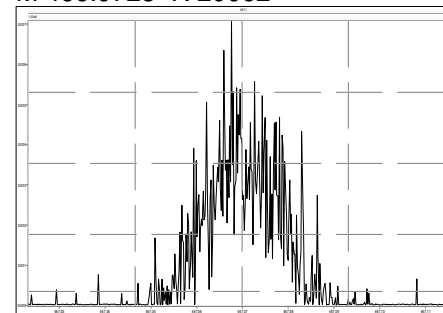
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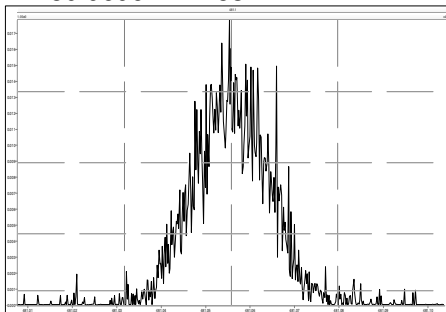
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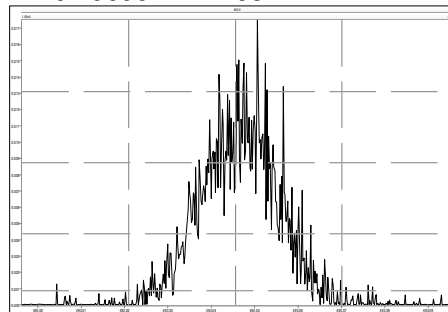
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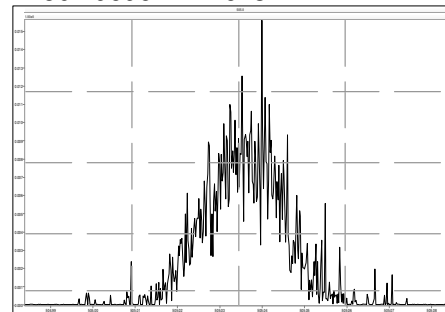
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M 492.9696 R 14468

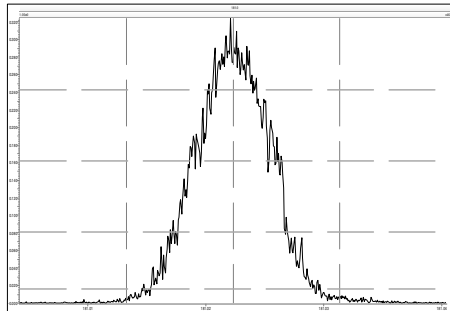


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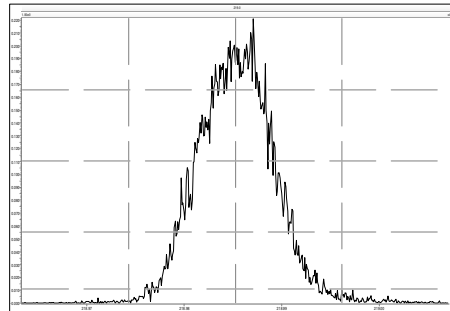


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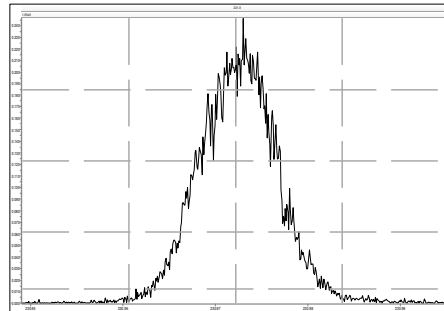
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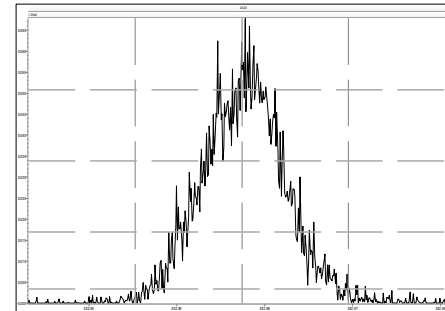
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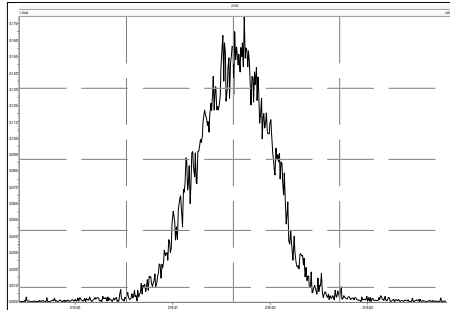
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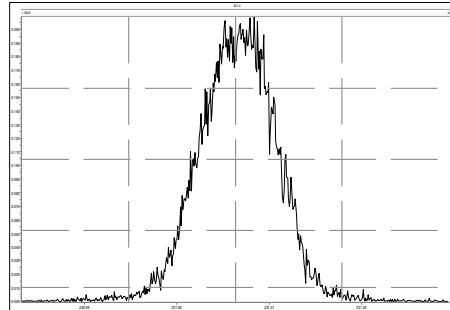
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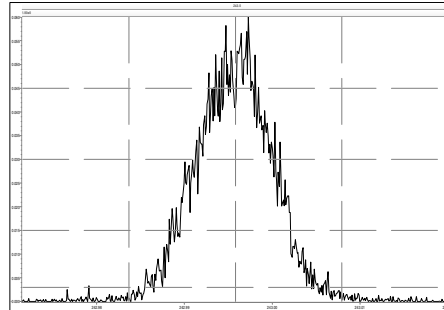
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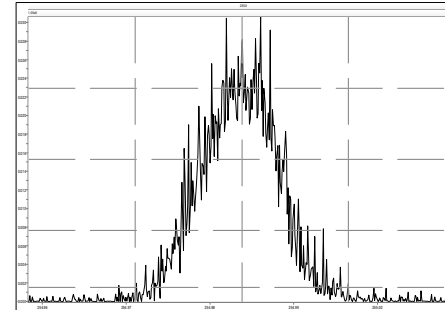
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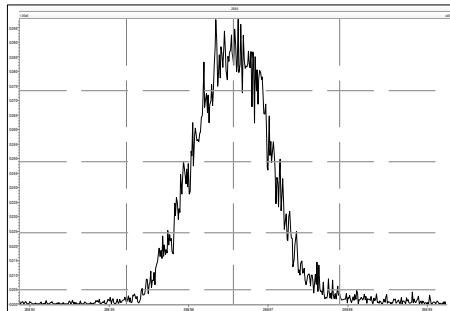
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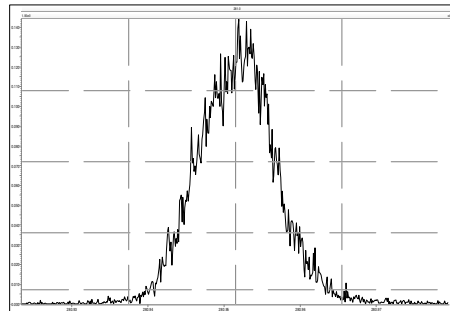
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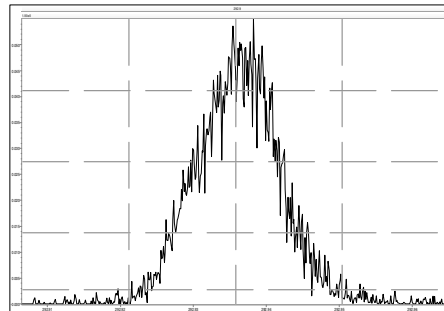
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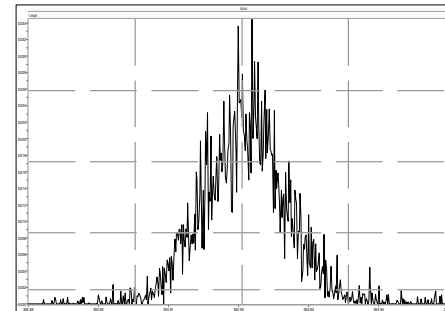
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M 292.9824 R 12323

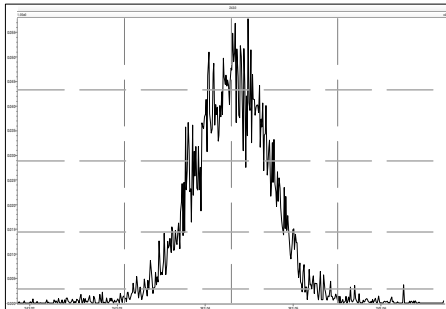


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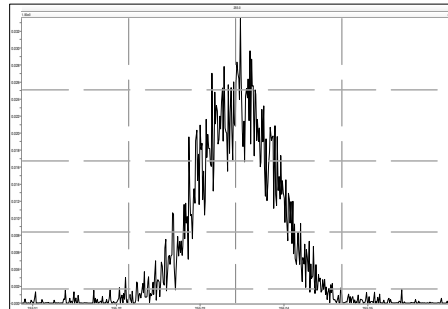


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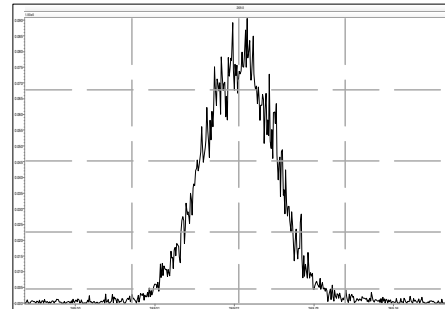
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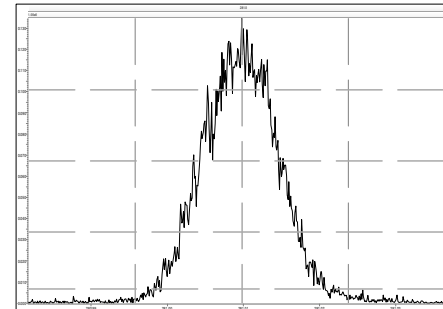
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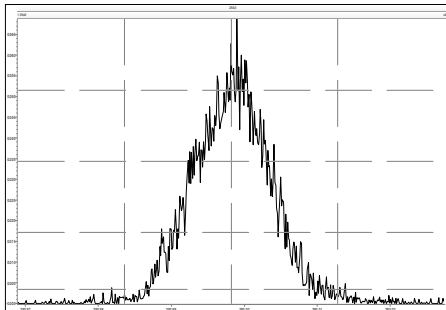
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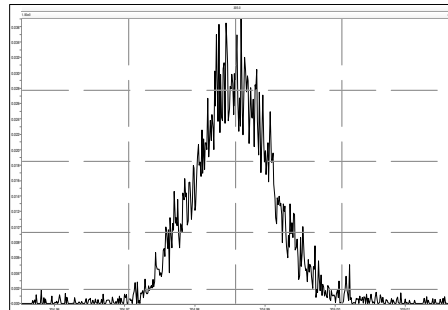
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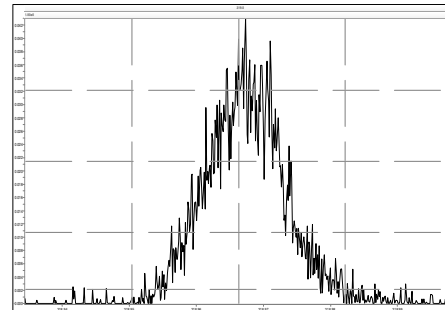
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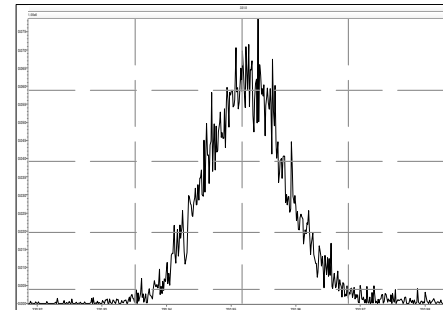
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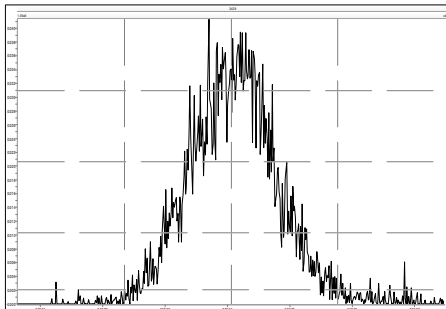
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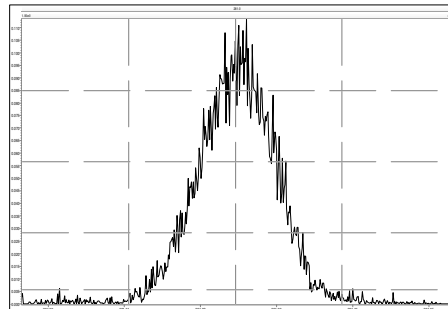
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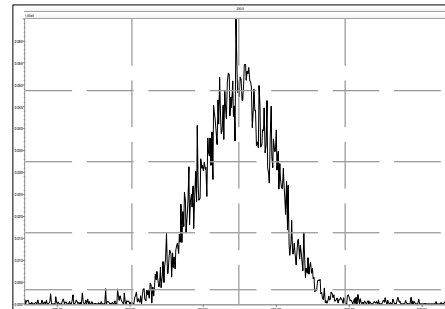
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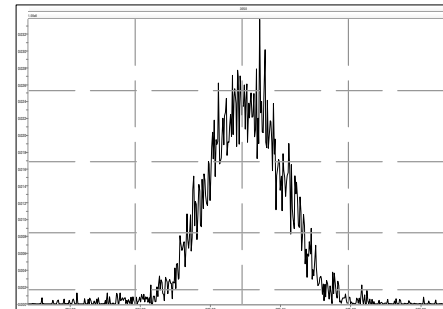
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M 292.9824 R 12658

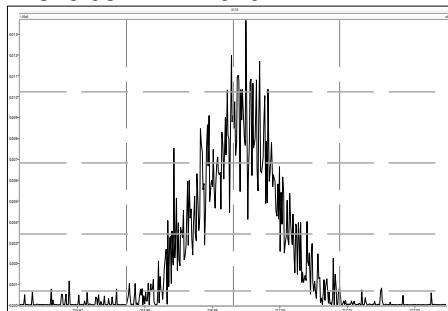


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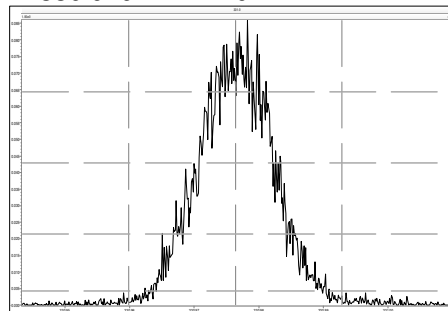


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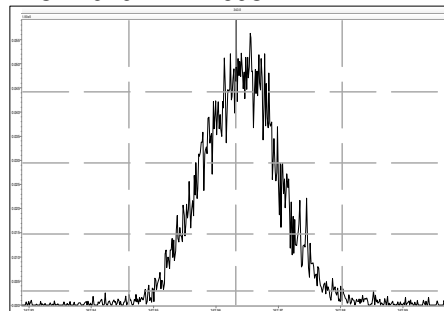
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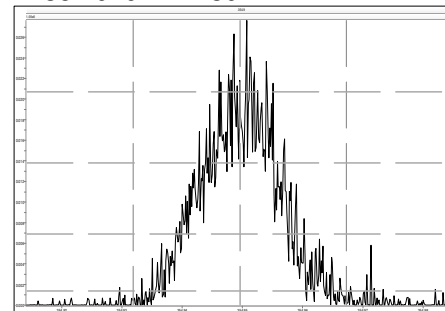
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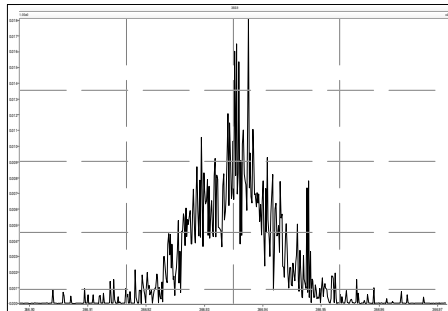
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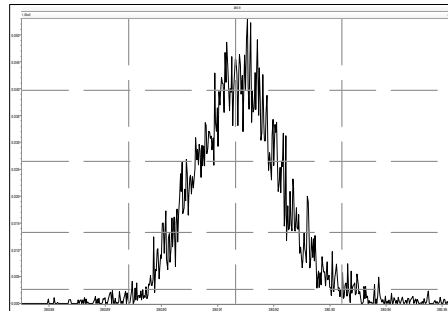
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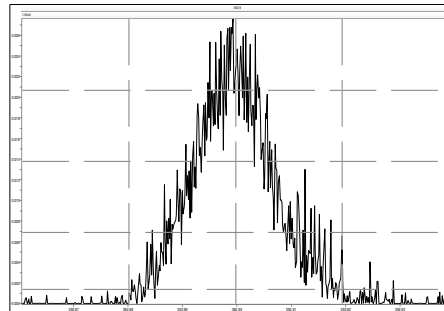
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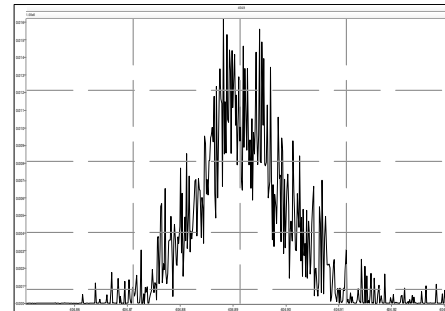
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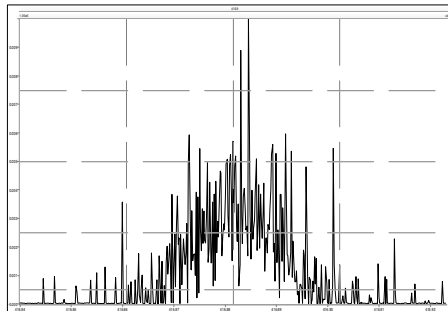
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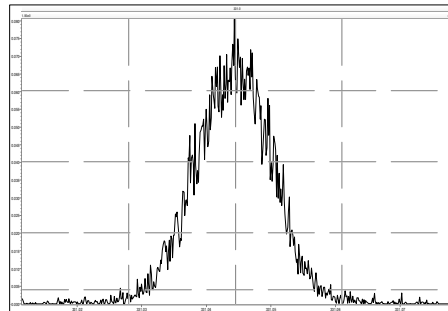
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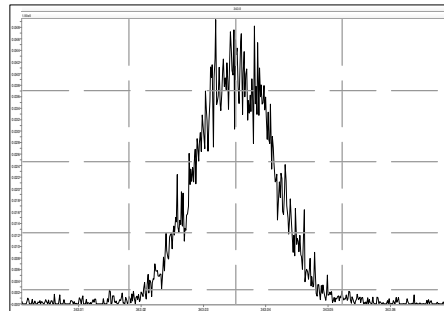
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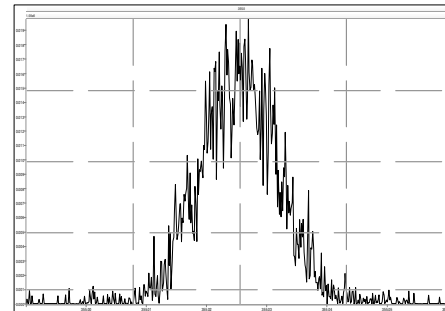
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M 342.9792 R 12789

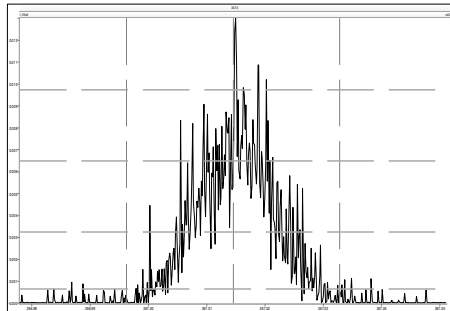


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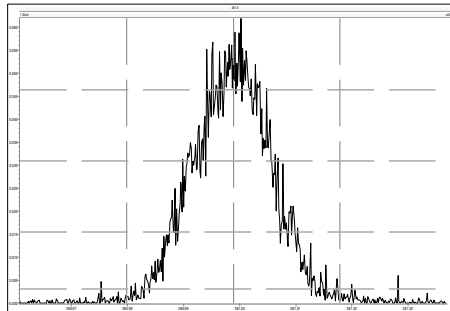


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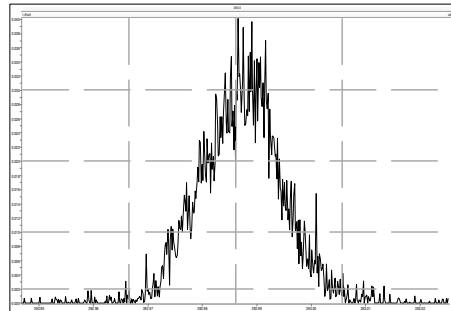
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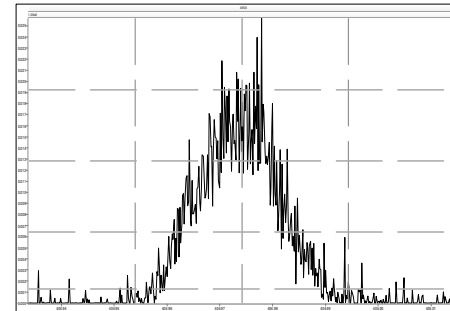
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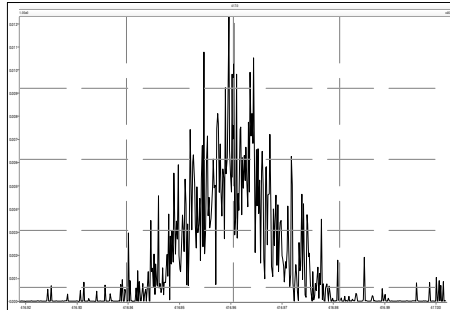
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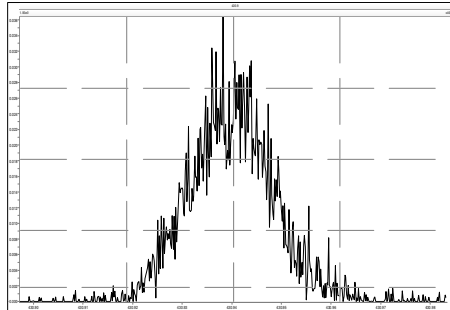
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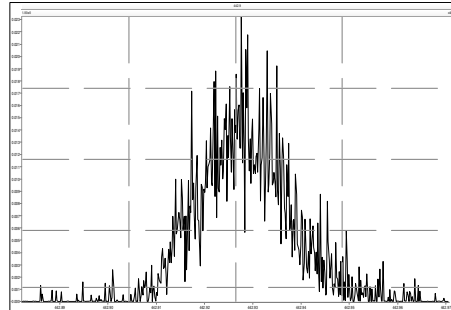
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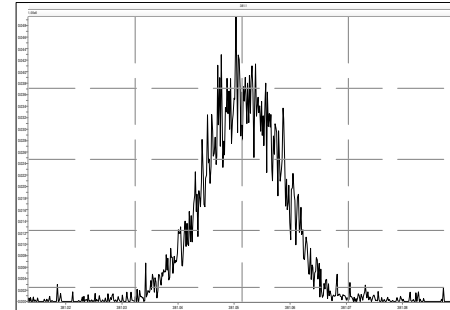
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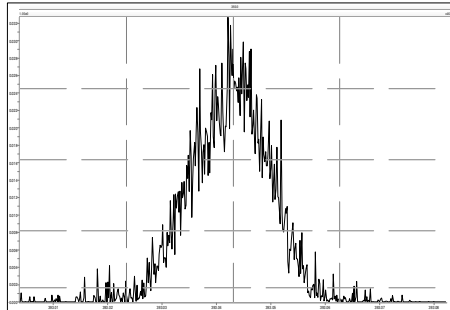
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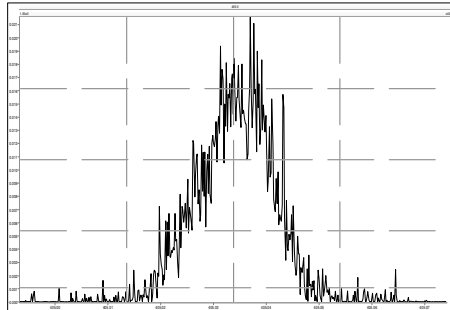
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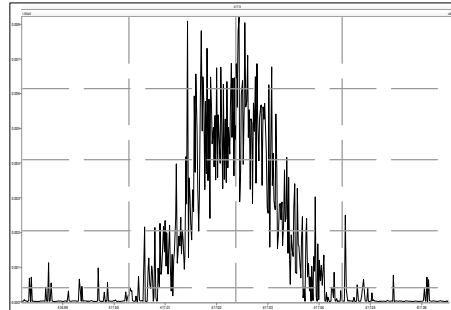
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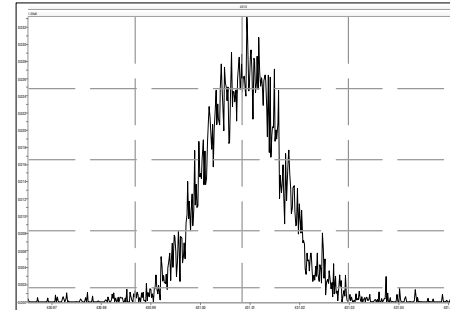
M 404.9760 R 15497



M 416.9760 R 14837

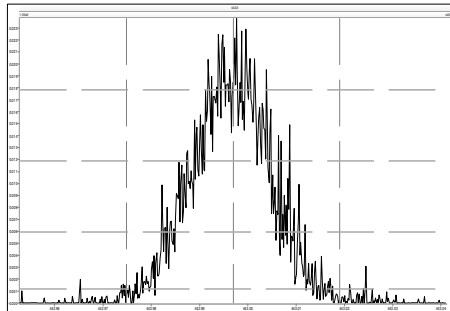


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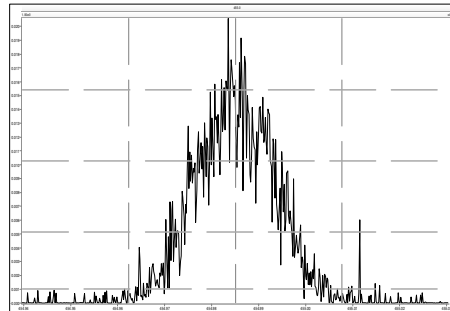


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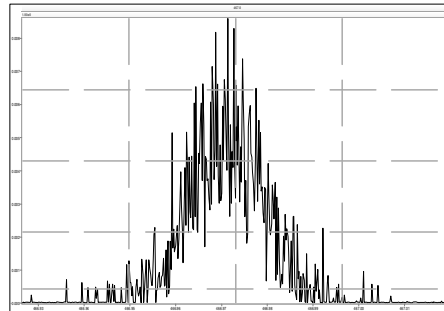
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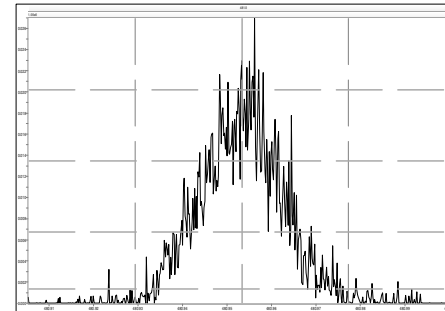
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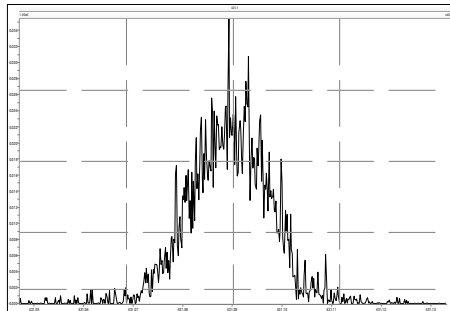
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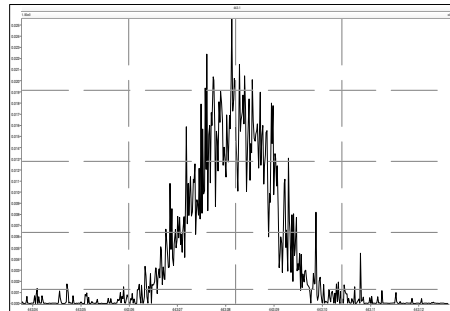
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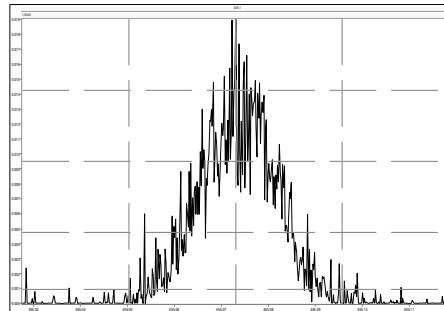
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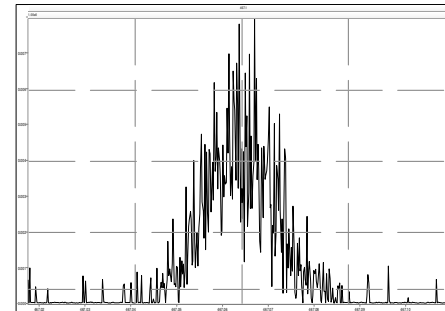
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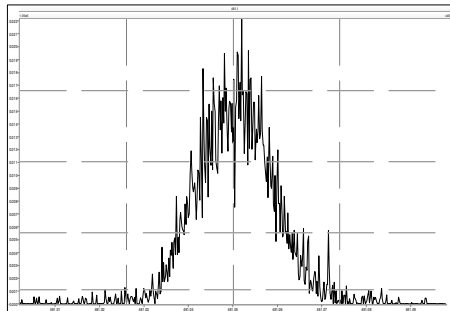
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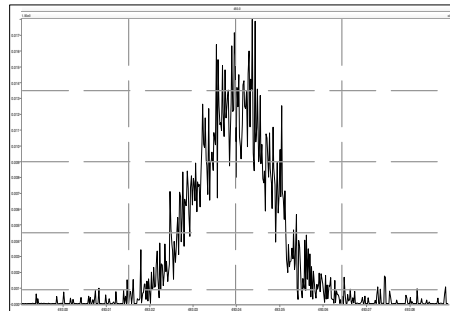
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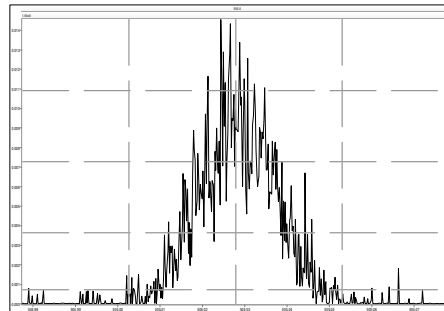
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M 492.9696 R 15112



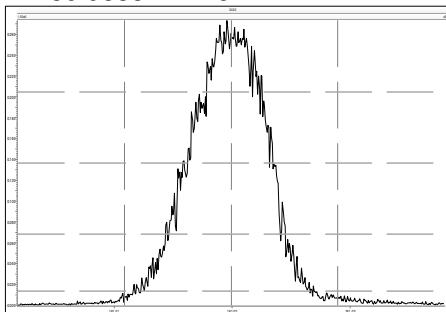
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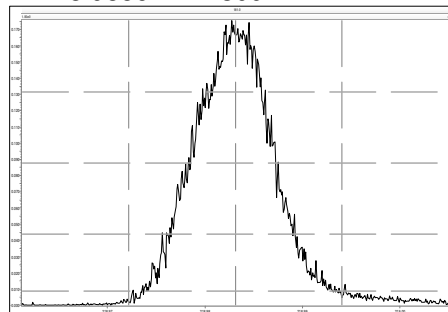
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Printed: Wednesday, September 18, 2024 13:07:03 Eastern Daylight Time

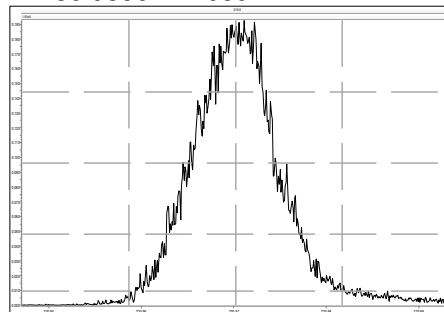
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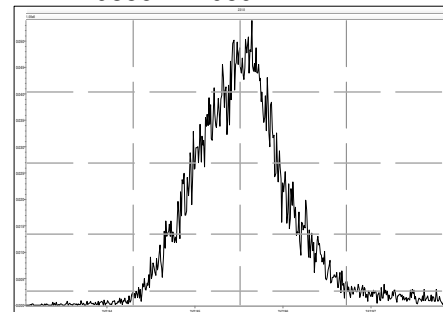
M 218.9856 R 11309



M 230.9856 R 10594



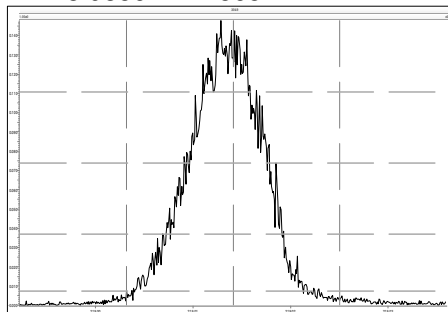
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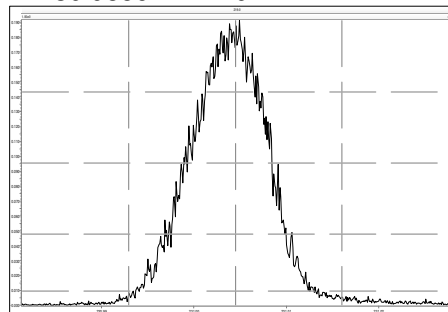
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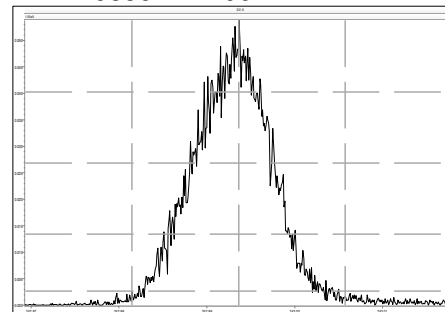
M 218.9856 R 12565



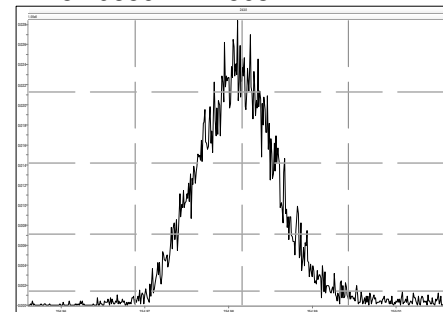
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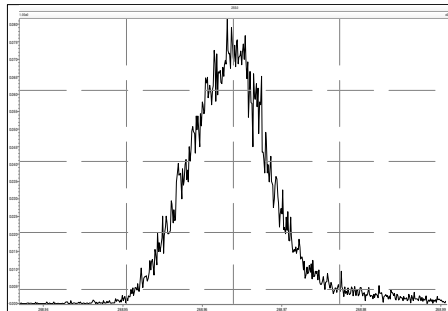
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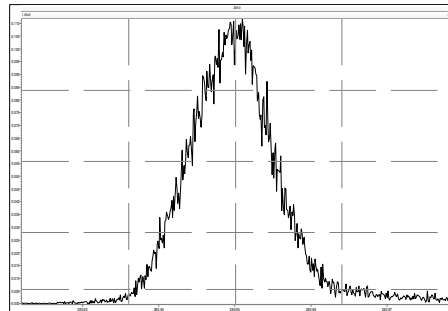
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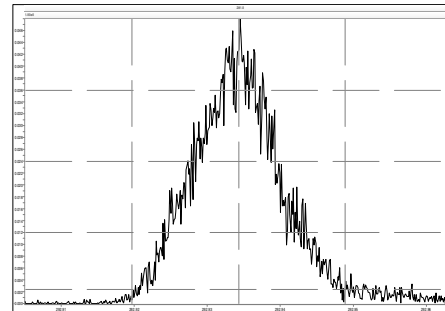
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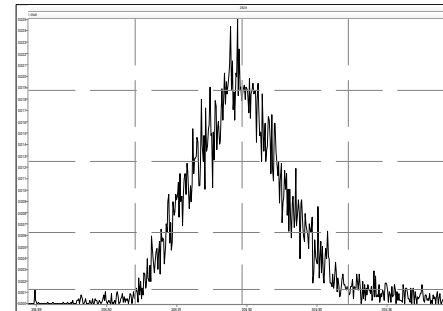
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M 292.9824 R 11115



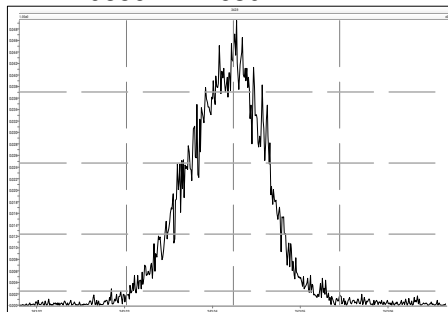
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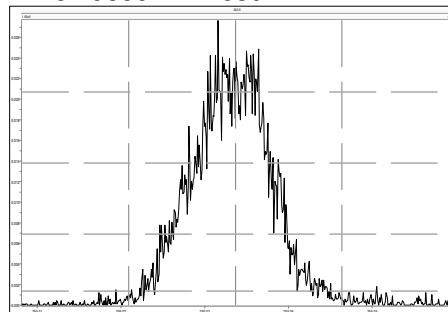
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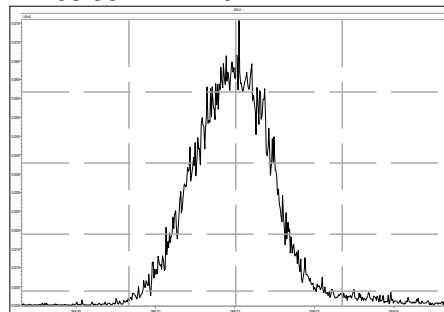
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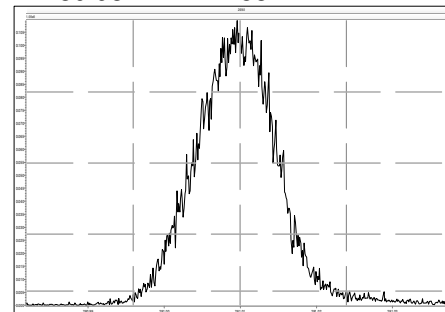
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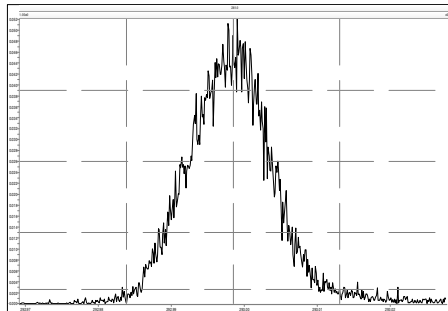
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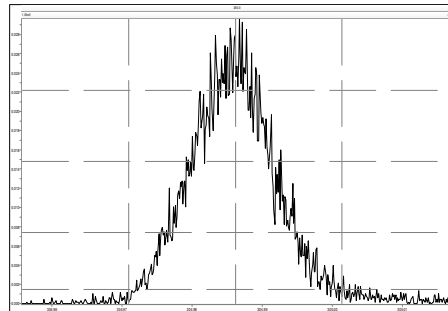
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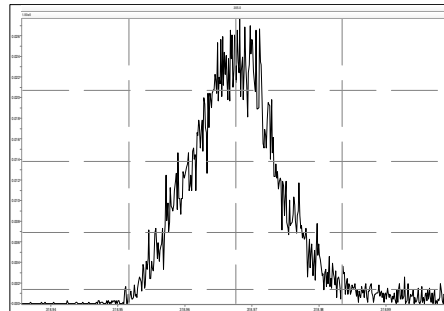
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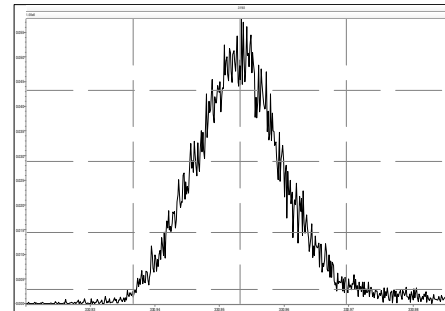
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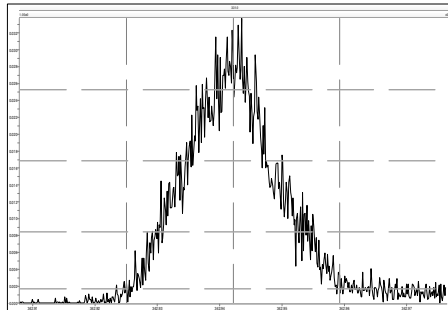
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M 330.9792 R 10683



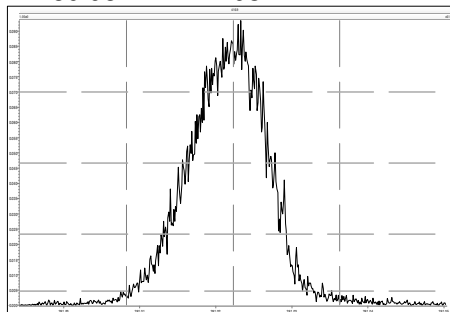
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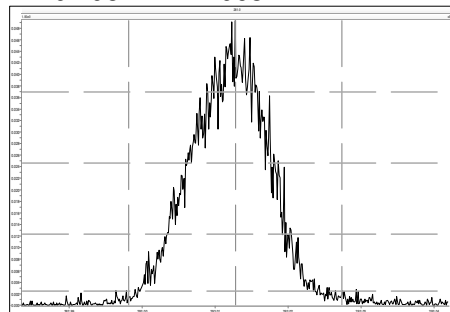
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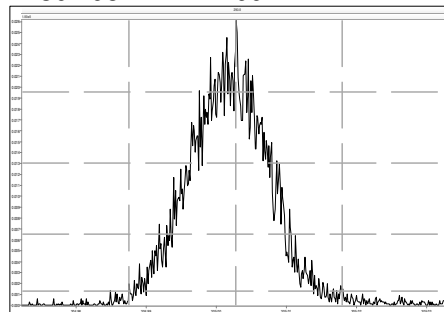
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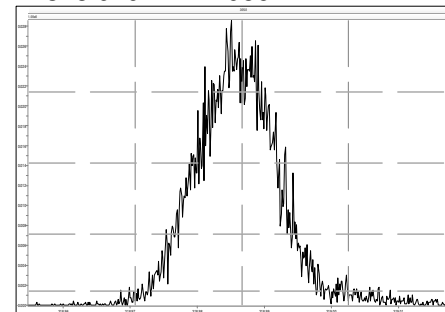
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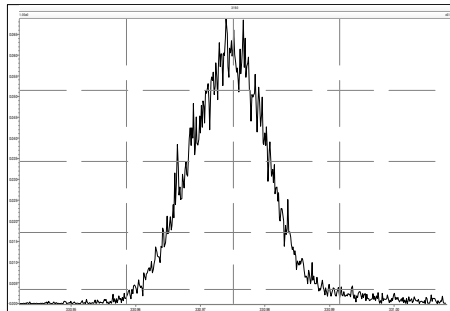
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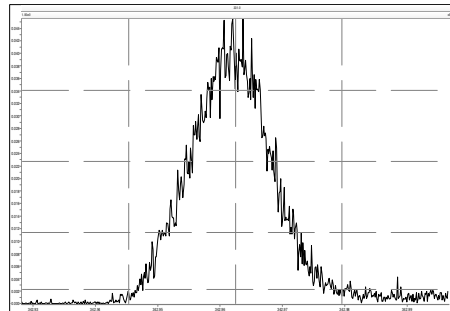
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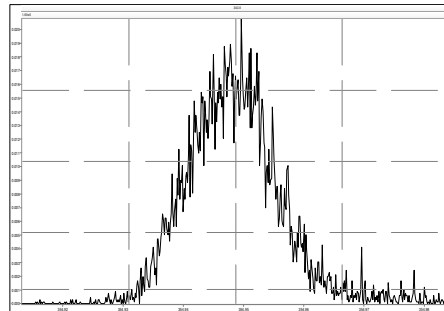
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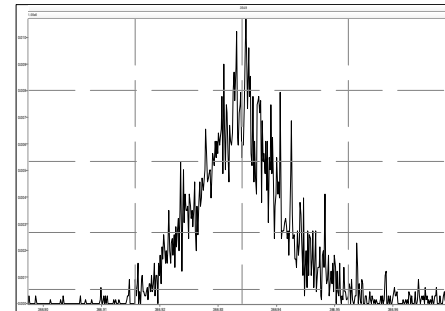
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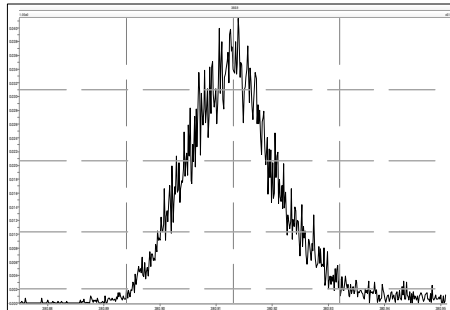
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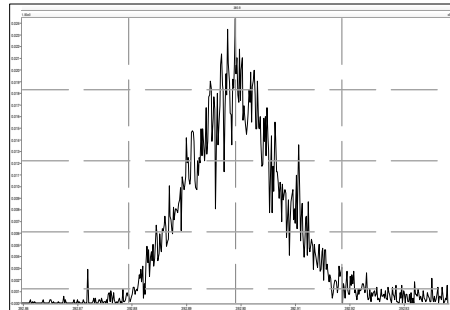
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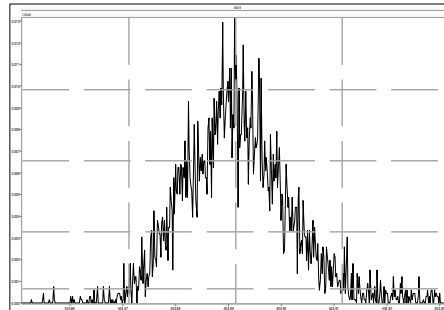
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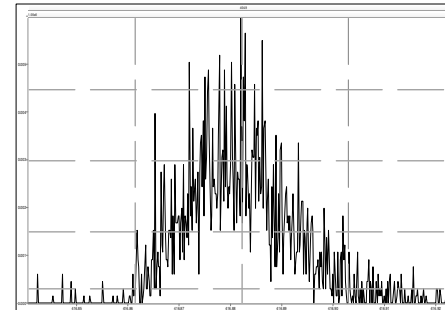
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M 404.9760 R 11963



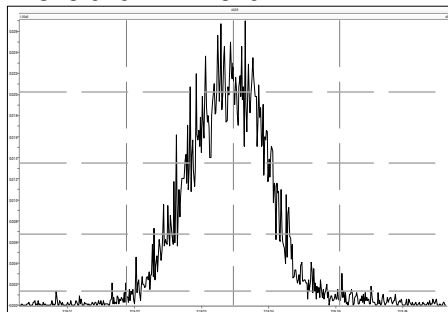
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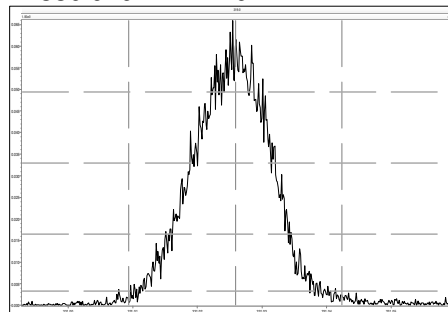
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Printed: Wednesday, September 18, 2024 13:08:47 Eastern Daylight Time

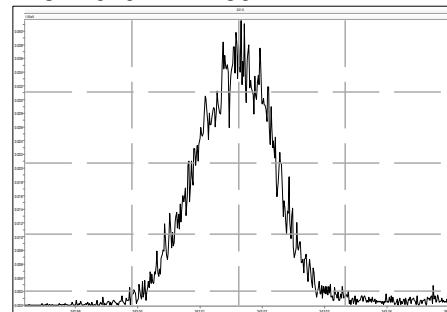
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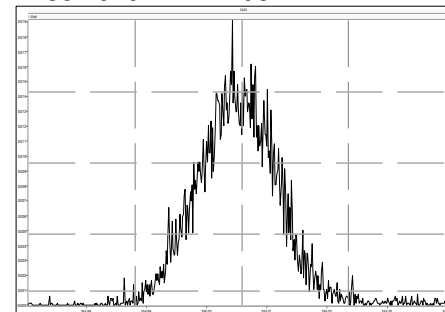
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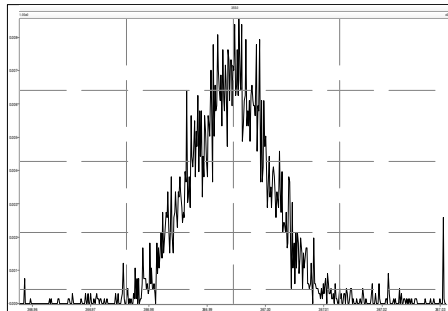
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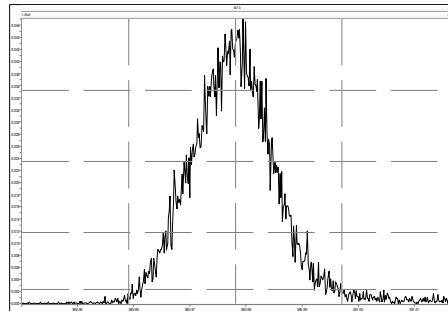
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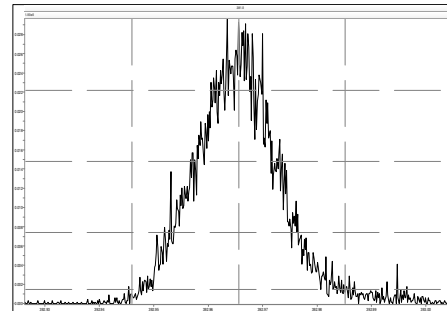
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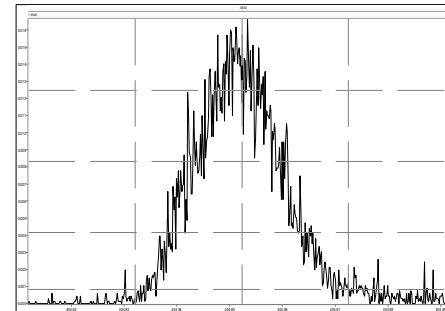
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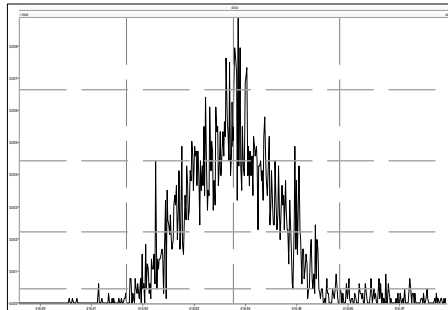
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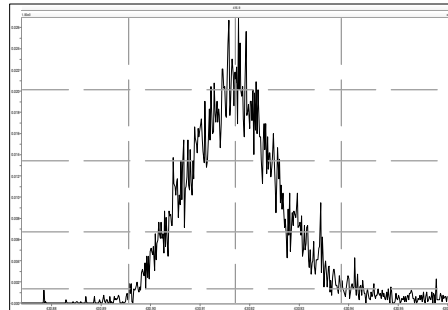
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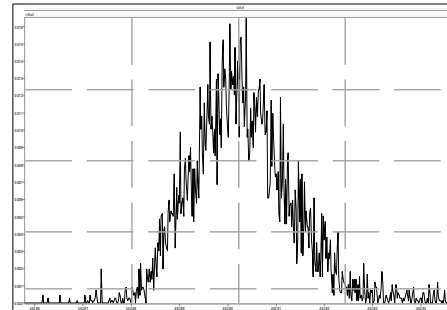
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M 430.9728 R 10776



M 442.9728 R 10636



Experiment Calibration Report

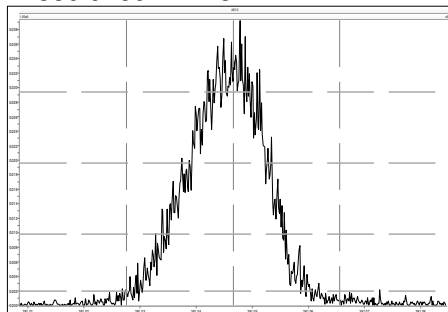
MassLynx 4.1 SCN815

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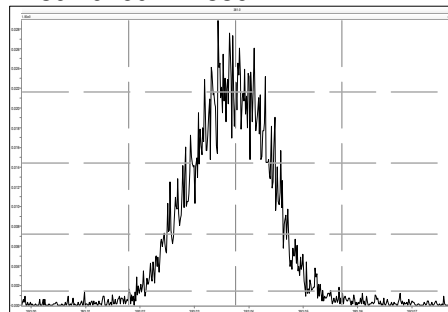
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Printed: Wednesday, September 18, 2024 13:09:07 Eastern Daylight Time

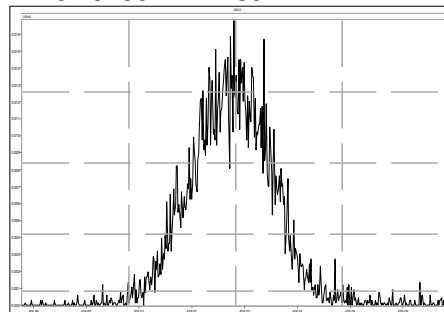
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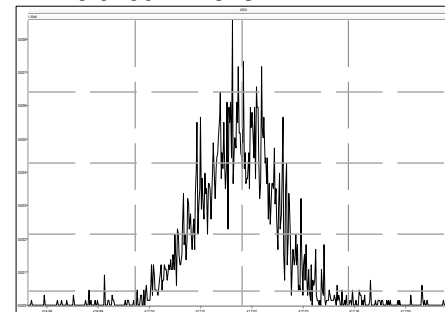
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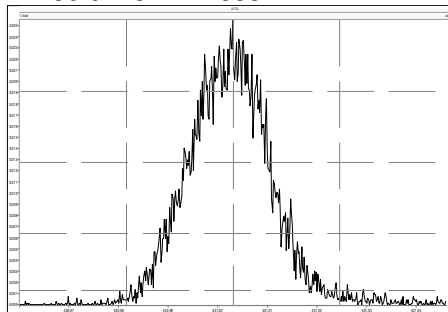
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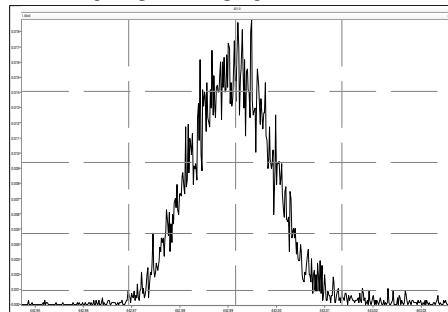
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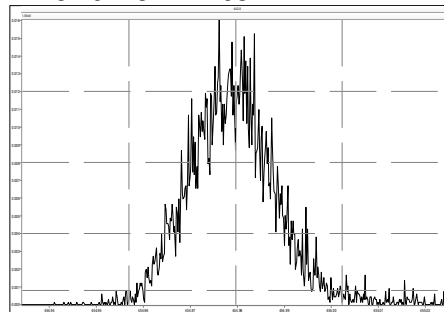
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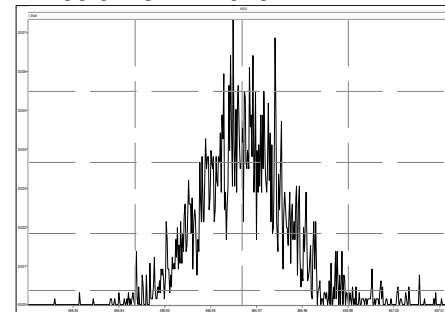
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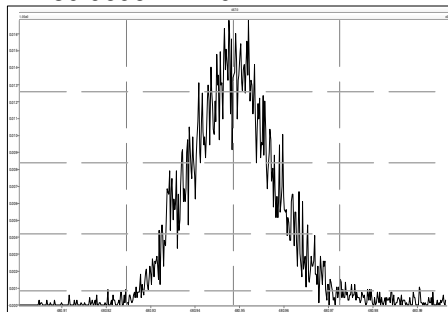
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M 466.9728 R 14046



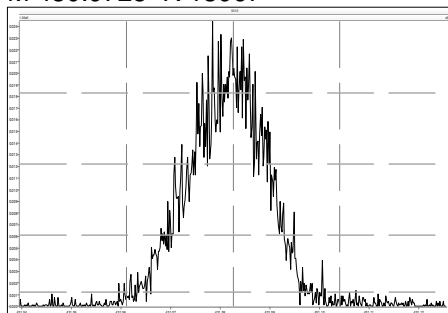
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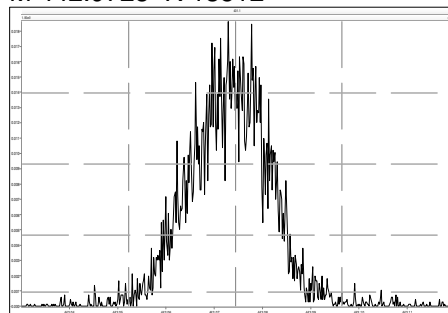
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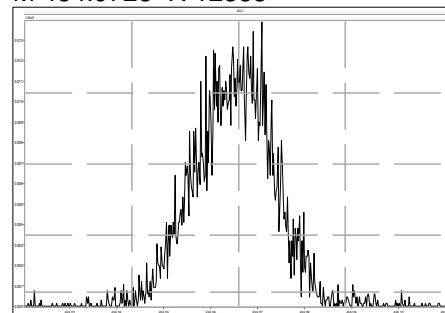
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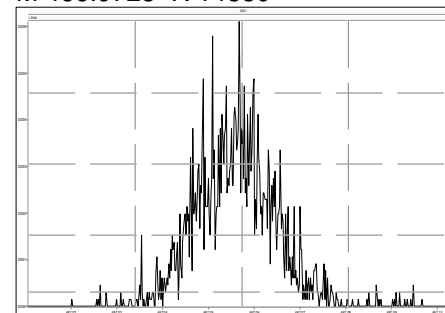
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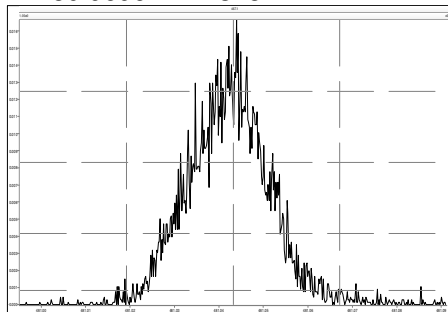
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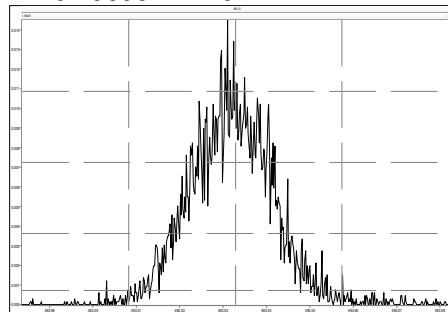
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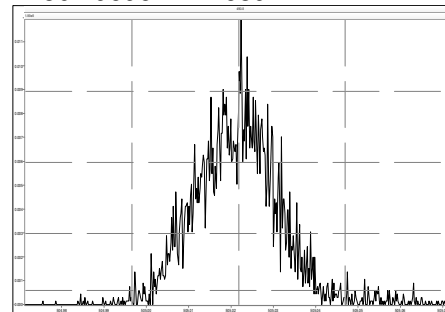
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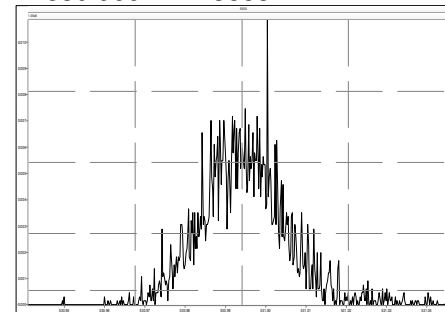
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M 504.9696 R 12689

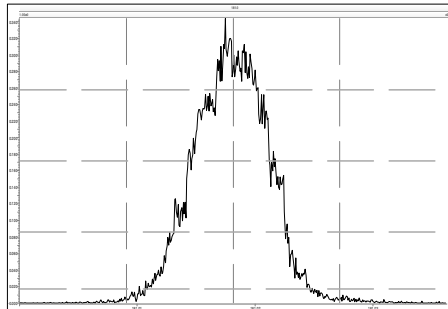


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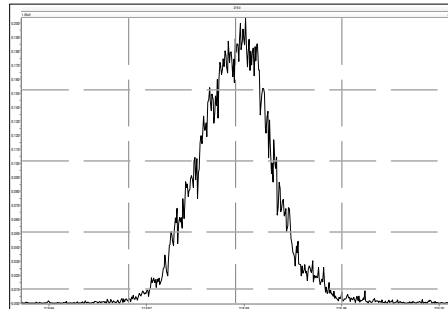


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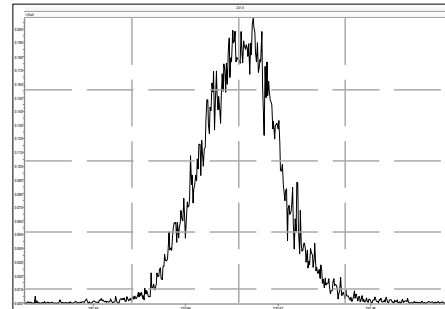
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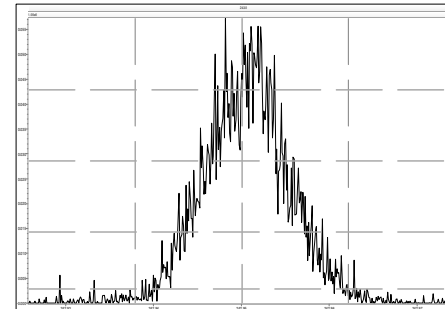
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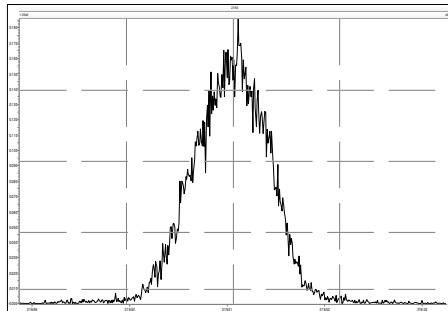
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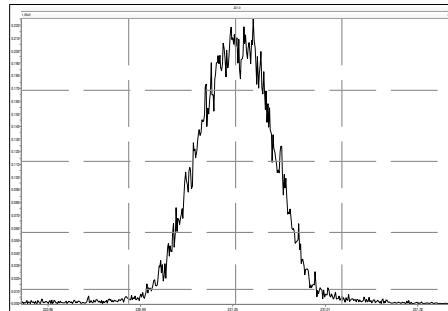
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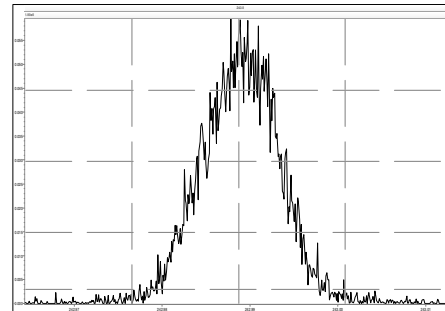
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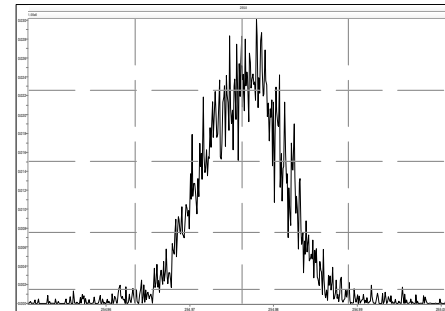
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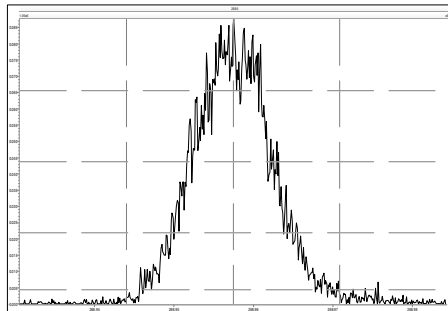
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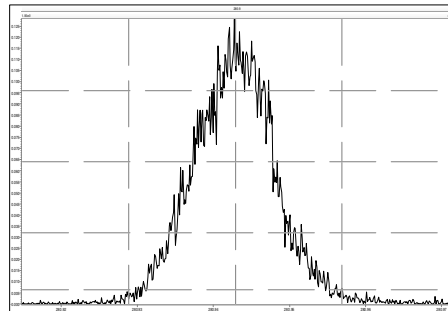
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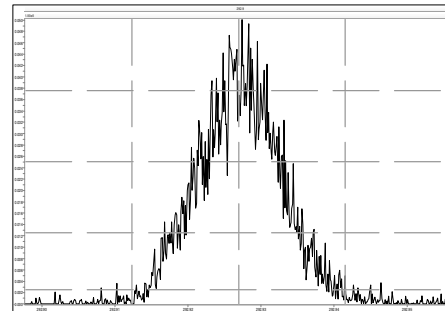
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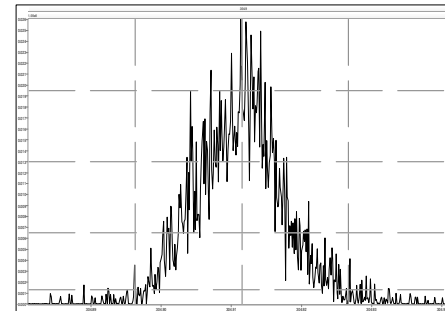
M 280.9824 R 11494



M 292.9824 R 11998

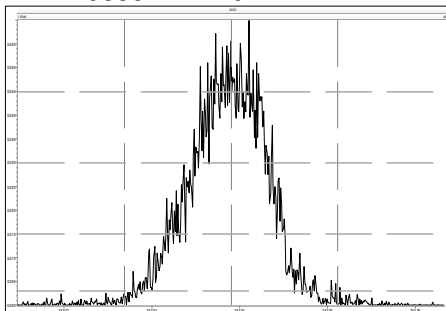


M 304.9824 R 13449

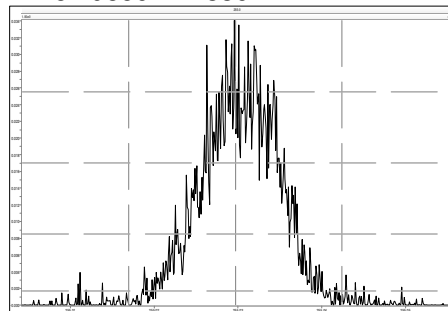


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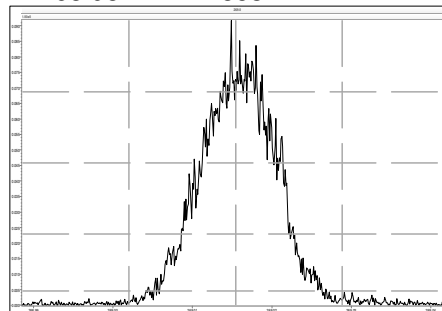
M 242.9856 R 12407



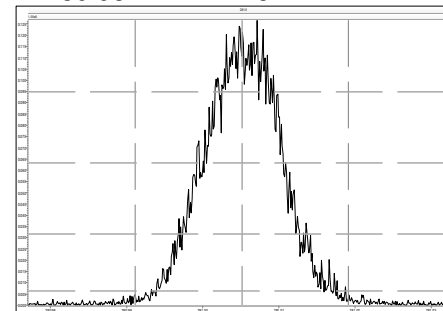
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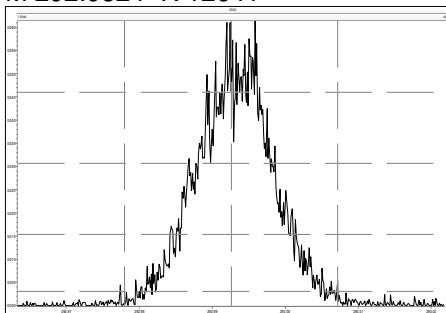
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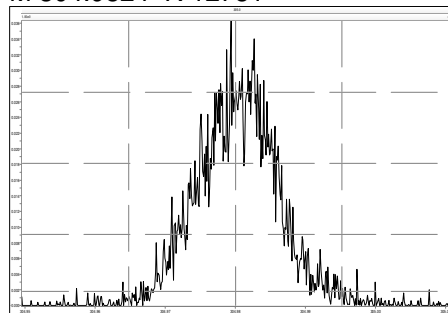
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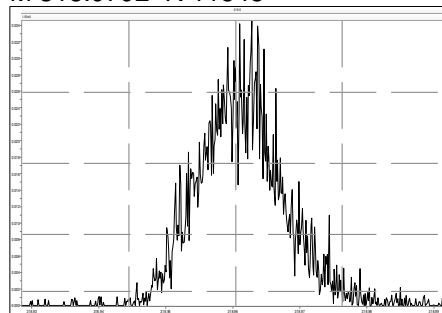
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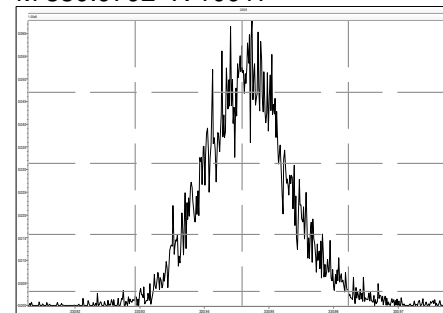
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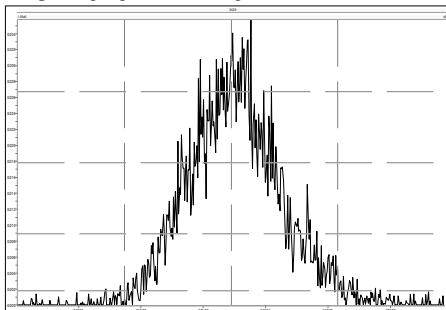
M 318.9792 R 11548



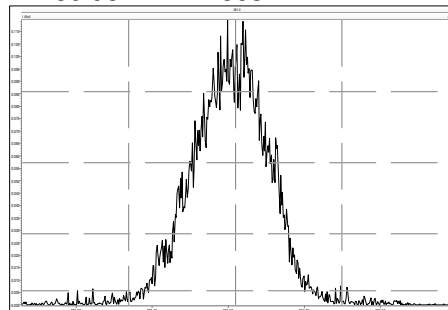
M 330.9792 R 10917



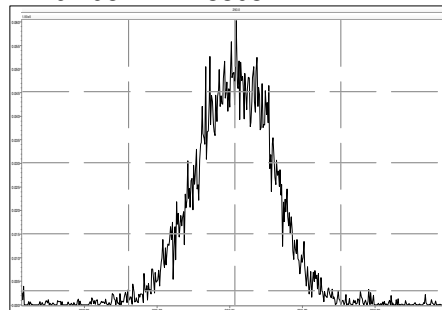
M 342.9792 R 12204



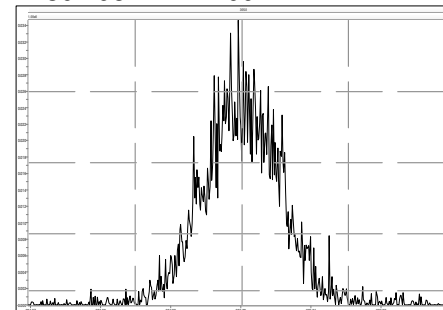
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M 292.9824 R 13303

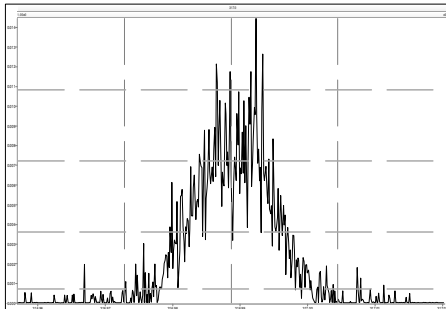


M 304.9824 R 12991

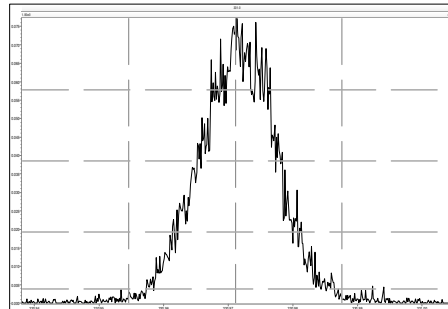


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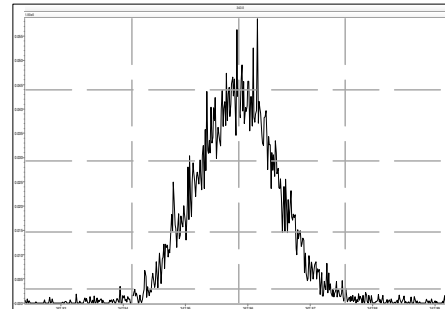
M 316.9824 R 14391



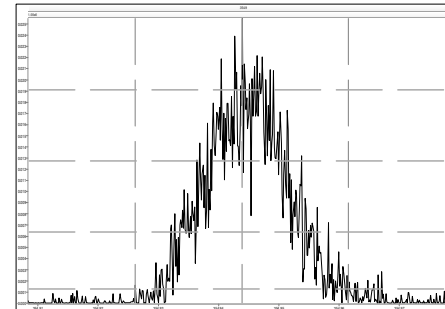
M 330.9792 R 12499



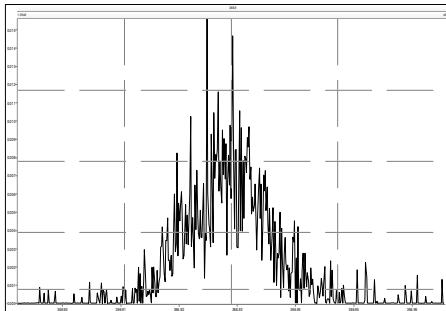
M 342.9792 R 12755



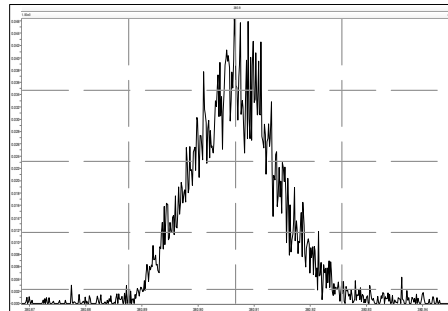
M 354.9792 R 14244



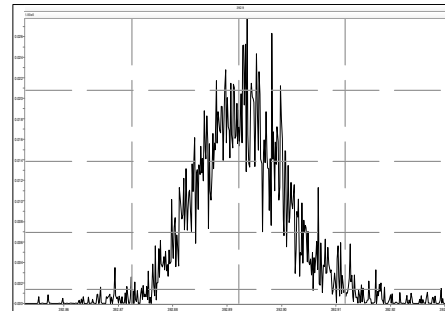
M 366.9792 R 15504



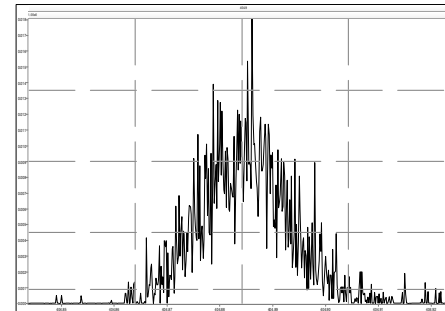
M 380.9760 R 11611



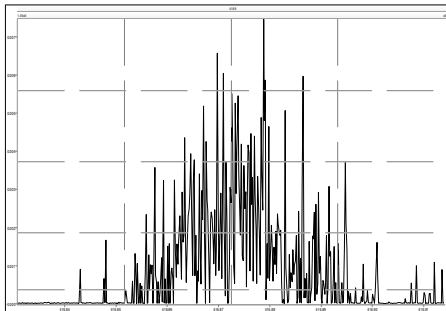
M 392.9760 R 12297



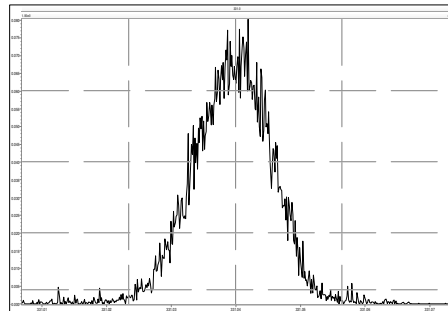
M 404.9760 R 12295



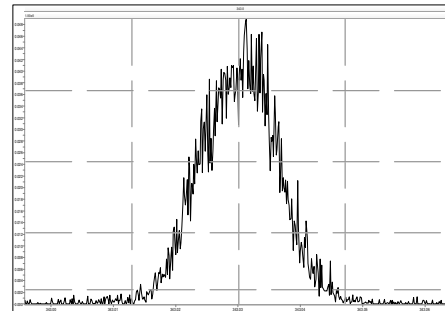
M 416.9760 R 39670



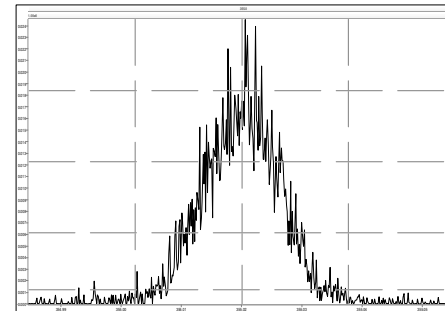
M 330.9792 R 12847



M 342.9792 R 12755

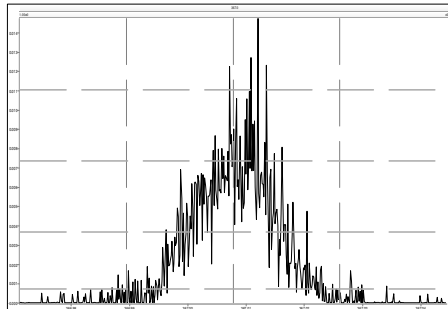


M 354.9792 R 13932

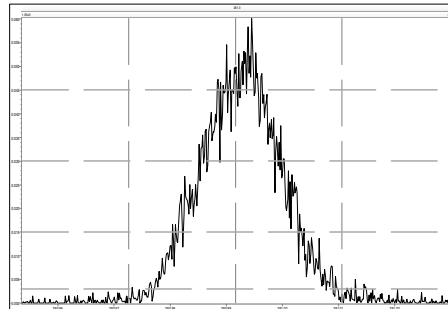


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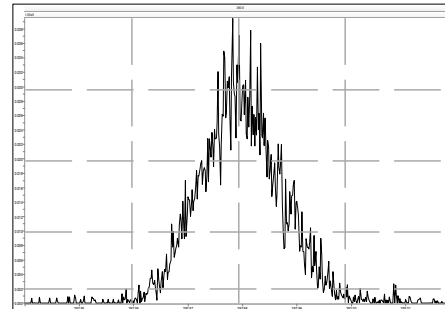
M 366.9792 R 14302



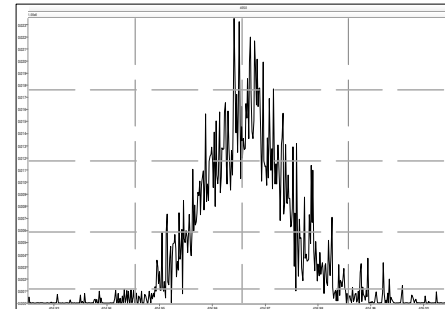
M 380.9760 R 12329



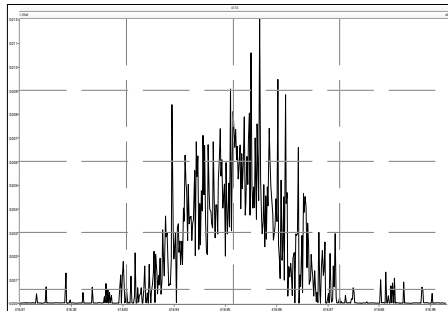
M 392.9760 R 12502



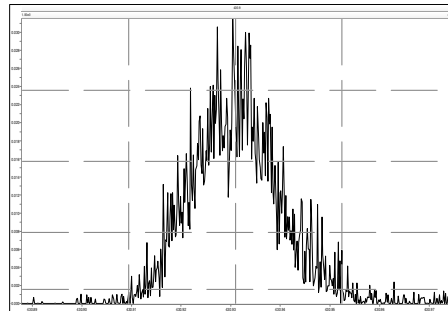
M 404.9760 R 13056



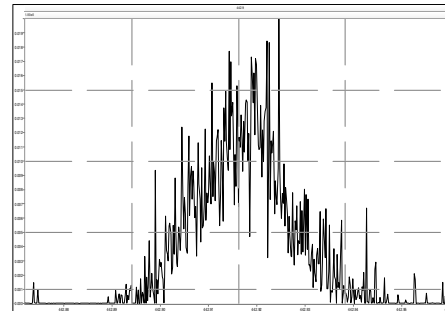
M 416.9760 R 18295



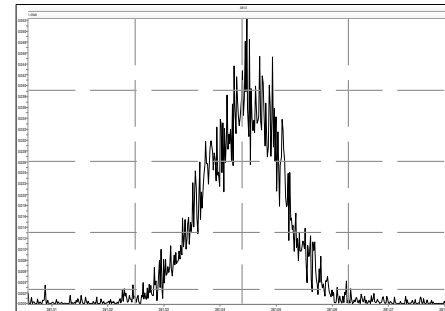
M 430.9728 R 12075



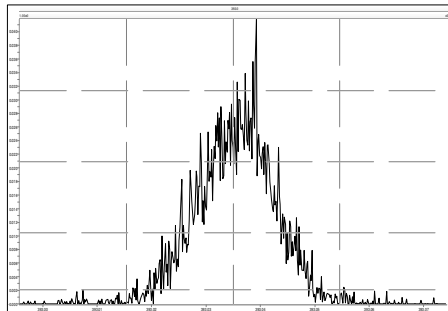
M 442.9728 R 13056



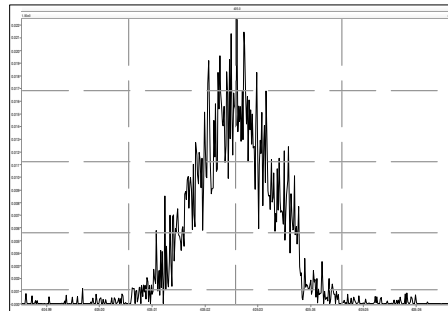
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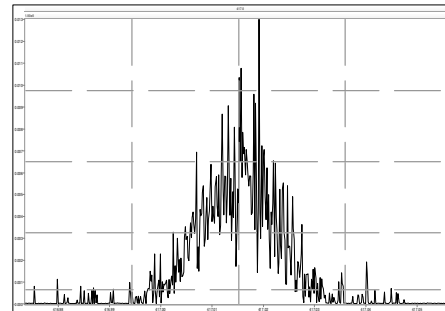
M 392.9760 R 13227



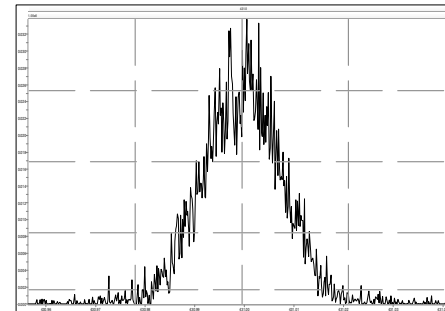
M 404.9760 R 14699



M 416.9760 R 15579

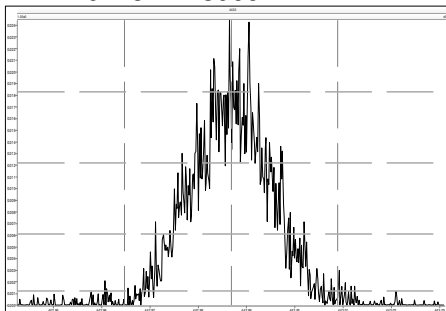


M 430.9728 R 12626

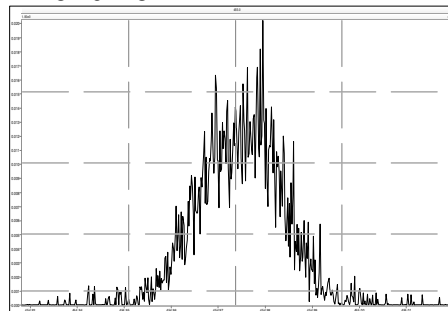


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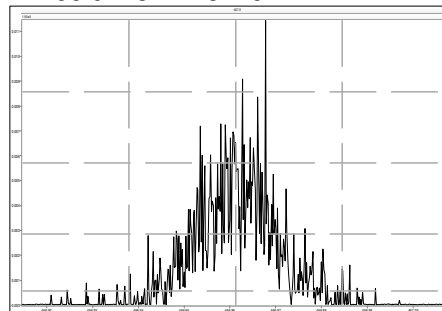
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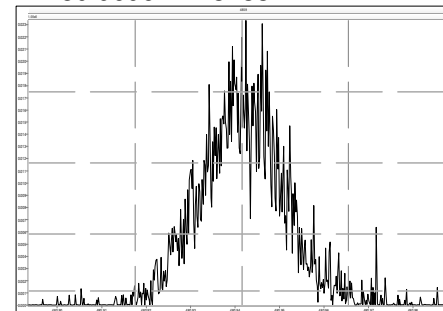
M 454.9728 R 14474



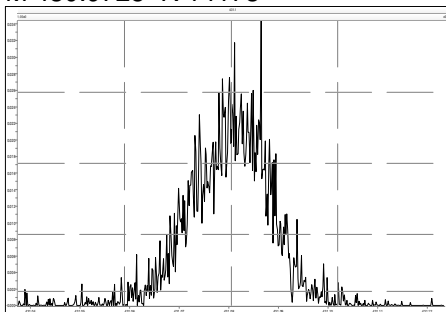
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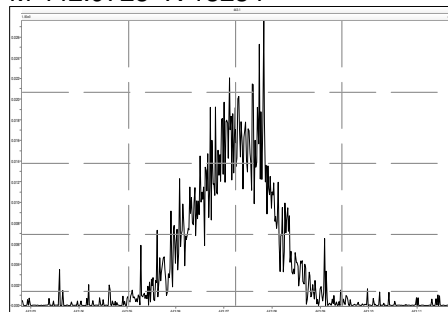
M 480.9696 R 13233



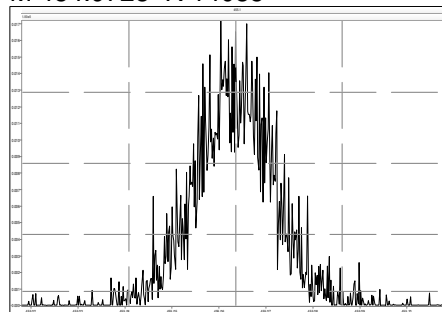
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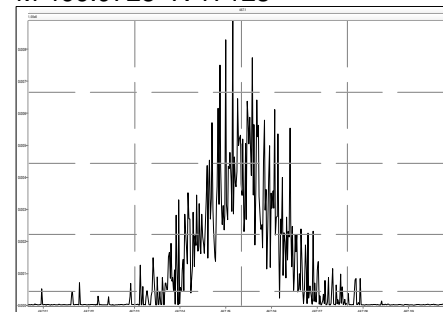
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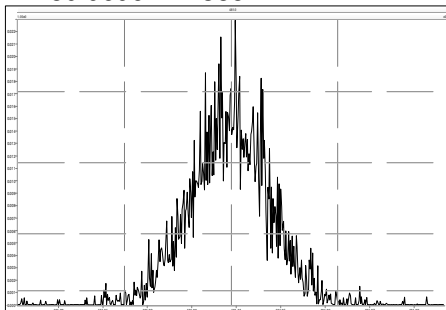
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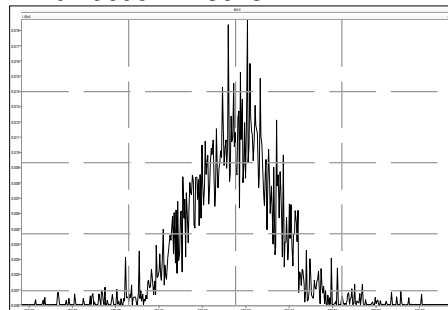
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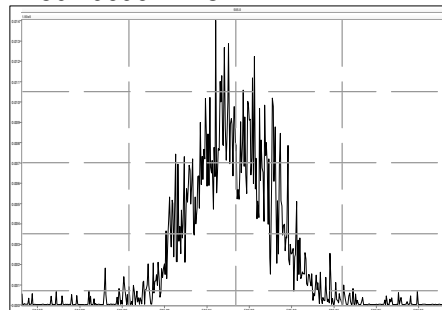
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M 492.9696 R 13623



M 504.9696 R 13742



| HR-PAH ICAL Summary | | | SGS North America | | | Printed: 06-Mar-24 15:57 | | |
|---|------|-------|-------------------|-----------|-----------|--------------------------|-----------|--|
| ICAL: MM6_PAH_ICAL_05MAR2024 | | | | | | | | |
| Acquired: 3/5/2024 | | | 240305V06 | 240305V07 | 240305V08 | 240305V09 | 240305V10 | |
| | | | 10 | 50 | 100 | 500 | 1000 | |
| Name | Mean | % RSD | CS1 | CS2 | CS3 | CS4 | CS5 | |
| Naphthalene | 0.99 | 6.5% | 0.94 ✓ | 0.95 | 0.94 | 1.07 | 1.05 | |
| 2-Methylnaphthalene | 1.01 | 3.9% | 0.98 | 0.98 | 0.98 | 1.05 | 1.05 | |
| Acenaphthylene | 0.92 | 11.8% | 0.80 | 0.86 | 0.88 | 1.02 | 1.06 | |
| Acenaphthene | 1.01 | 5.4% | 0.95 | 0.98 | 1.00 | 1.08 | 1.06 | |
| Fluorene | 1.02 | 6.6% | 0.95 | 0.99 | 0.98 | 1.10 | 1.07 | |
| Phenanthrene | 1.00 | 4.2% | 0.98 | 0.96 | 0.97 | 1.06 | 1.02 | |
| Anthracene | 1.23 | 4.7% | 1.19 | 1.18 | 1.21 | 1.29 | 1.30 | |
| Fluoranthene | 0.92 | 4.3% | 0.88 | 0.90 | 0.89 | 0.97 | 0.94 | |
| Pyrene | 0.98 | 2.5% | 0.98 | 0.96 | 0.95 | 1.01 | 0.99 ✓ | |
| Benzo(a)Anthracene | 1.00 | 6.1% | 0.94 | 0.94 | 1.00 | 1.07 | 1.06 | |
| Chrysene | 1.01 | 5.6% | 0.96 | 0.97 | 0.97 | 1.07 | 1.07 | |
| Benzo(b)Fluoranthene | 0.98 | 3.1% | 0.99 | 0.95 | 0.95 | 1.02 | 0.99 | |
| Benzo(k)Fluoranthene | 0.92 | 10.3% | 0.84 | 0.81 | 0.92 | 1.00 | 1.03 | |
| Benzo(e)Pyrene | 0.98 | 4.9% | 0.96 | 0.92 | 0.95 | 1.03 | 1.02 | |
| Benzo(a)Pyrene | 0.98 | 11.1% | 0.87 | 0.87 | 1.00 | 1.10 | 1.06 | |
| Perylene | 1.06 | 10.7% | 0.91 | 1.03 | 1.01 | 1.16 | 1.18 | |
| Indeno(1,2,3-cd)Pyrene | 0.92 | 6.0% | 0.87 | 0.86 | 0.90 | 0.98 | 0.96 | |
| Dibenzo(a,h)Anthracene | 0.94 | 5.1% | 0.89 | 0.89 | 0.93 | 0.99 | 0.98 | |
| Benzo(ghi)Perylene | 0.97 | 7.4% | 0.87 | 0.94 | 0.95 | 1.05 | 1.03 | |
| | | | | | | | | |
| Acenaphthylene, Benzo(k)Fluorene and Perylene do not meet ICAL RSD criteria in SOP DC_612.0 or Table 23-14 in method. | | | | | | | | |
| Departure from standard procedures document is attached. CL 08Mar24 | | | | | | | | |
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| <div>REVIEWED</div> <div>Carla_Lyon , 3/8/2024, 11:55:32 AM</div> | | | | | | | | |
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| HR-PAH ICAL Summary | | | SGS North America | | | | | Printed: 06-Mar-24 15:57 |
|------------------------------|------|-------|-------------------|-----------|-----------|-----------|-----------|--------------------------|
| ICAL: MM6_PAH_ICAL_05MAR2024 | | | | | | | | |
| Acquired: 3/5/2024 | | | 240305V06 | 240305V07 | 240305V08 | 240305V09 | 240305V10 | |
| | | | 10 | 50 | 100 | 500 | 1000 | |
| Name | Mean | % RSD | CS1 | CS2 | CS3 | CS4 | CS5 | |
| 13C6-Naphthalene | 1.35 | 6.3% | 1.41 | 1.27 | 1.46 | 1.30 | 1.29 | |
| 13C6-2-Methylnaphthalene | 0.99 | 4.6% | 1.01 | 0.92 | 1.04 | 1.00 | 0.99 | |
| 13C6-Acenaphthylene | 1.37 | 6.4% | 1.41 | 1.22 | 1.45 | 1.38 | 1.37 | |
| 13C6-Acenaphthene | 0.91 | 5.2% | 0.93 | 0.83 | 0.95 | 0.92 | 0.92 | |
| 13C6-Fluorene | 1.09 | 5.8% | 1.15 | 0.99 | 1.14 | 1.08 | 1.10 | |
| 13C6-Phenanthrene | 1.91 | 5.5% | 1.96 | 1.75 | 1.96 | 1.87 | 2.01 | |
| 13C6-Anthracene | 1.35 | 5.5% | 1.38 | 1.22 | 1.38 | 1.35 | 1.41 | |
| 13C6-Fluoranthene | 1.23 | 4.8% | 1.26 | 1.13 | 1.29 | 1.22 | 1.23 | |
| 13C3-Pyrene | 1.23 | 4.9% | 1.25 | 1.13 | 1.29 | 1.24 | 1.26 | |
| 13C6-Benzo(a)Anthracene | 0.86 | 9.1% | 0.82 | 0.75 | 0.89 | 0.92 | 0.95 | |
| 13C6-Chrysene | 1.19 | 7.0% | 1.17 | 1.05 | 1.27 | 1.23 | 1.22 | |
| 13C6-Benzo(b)Fluoranthene | 1.28 | 3.9% | 1.29 | 1.19 | 1.30 | 1.31 | 1.29 | |
| 13C6-Benzo(k)Fluoranthene | 1.82 | 5.0% | 1.92 | 1.73 | 1.90 | 1.81 | 1.74 | |
| 13C4-Benzo(e)Pyrene | 1.56 | 6.5% | 1.69 | 1.50 | 1.64 | 1.52 | 1.45 | |
| 13C4-Benzo(a)Pyrene | 1.23 | 4.9% | 1.33 | 1.22 | 1.22 | 1.18 | 1.18 | |
| d12-Perylene | 1.13 | 6.3% | 1.19 | 1.04 | 1.21 | 1.11 | 1.08 | |
| 13C6-Indeno(1,2,3-cd)Pyrene | 0.85 | 9.5% | 0.84 | 0.73 | 0.86 | 0.88 | 0.95 | |
| 13C6-Dibenzo(ah)Anthracene | 0.94 | 15.8% | 0.85 | 0.74 | 0.96 | 1.01 | 1.13 | |
| 13C12-Benzo(ghi)Perylene | 1.33 | 4.7% | 1.32 | 1.22 | 1.36 | 1.37 | 1.37 | |
| AS--Anthracene | 1.17 | 7.0% | 1.10 | 1.22 | 1.28 | 1.08 | 1.19 | |
| SS-Fluorene | 1.00 | 8.7% | 0.89 | 1.09 | 1.09 | 0.96 | 0.98 | |
| SS-Terphenyl | 0.79 | 8.8% | 0.72 | 0.87 | 0.87 | 0.75 | 0.77 | |
| JS-Methylnaphthalene | - | - | - | - | - | - | - | |
| JS-Acenaphthene | - | - | - | - | - | - | - | |
| JS-Pyrene | - | - | - | - | - | - | - | |
| JS-Benzo(a)Pyrene | - | - | - | - | - | - | - | |
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5500 Business Drive
Wilmington, NC 28405

Departure from Standard Policies and Procedures

Initiated by: Tyler Fritz

Date Initiated: 3/8/24

Laboratory Project ID: N/A

Sample IDs effected: N/A

Reason for Departure
from Standard Policy or
Procedure:

New M23 ICAL limits are too tight
for PAHs. Unable to meet new M23 ICAL limits
New ICAL is not tiered. All ESs are at 100ppb

Describe (in detail) the
alternative steps that will
be taken:

Using historical limits of 30% RPD for native
PAHs in ICAL.

Customer contacted:

☒ Yes
☐ No

Date contacted: See final report

Client contact: via case narrative

Authorized by Technical
Director:

Greg Dickinson

Date Authorized: 03-08-2024

Authorized by QA
Manager:

Jeanine Mitchell

Date Authorized: 3-8-2024

☒ Supporting Data (if available) attached

ICAL Raw data

Instrument: MM6 (AutoSpec-Premier)

MS Experiment: pah

GC Program: pah

| # | Datafile | Vial# | Lab ID | Wt/Vol | Client/Sample ID | Analyst(s) | Checkcode | Acq Date | Acq Time |
|----|-----------|-------|-------------------|--------|------------------|------------|-----------|-------------|----------|
| 0 | 240305V05 | 4 | SB_240305_PAH_VC | 1.00 | Isooctane | DTF | 129-573 | 05-Mar-2024 | 16:04:05 |
| 6 | 240305V06 | 9 | CS1_240305_PAH_VA | 1.00 | SIL -27-81-2 | DTF | 974-350 | 05-Mar-2024 | 16:50:44 |
| 7 | 240305V07 | 10 | CS2_240305_PAH_VA | 1.00 | SIL -27-81-1 | DTF | 356-753 | 05-Mar-2024 | 17:37:15 |
| 8 | 240305V08 | 11 | CS3_240305_PAH_VA | 1.00 | SIL -27-80-3 | DTF | 973-923 | 05-Mar-2024 | 18:23:53 |
| 9 | 240305V09 | 12 | CS4_240305_PAH_VA | 1.00 | SIL -27-80-2 | DTF | 696-498 | 05-Mar-2024 | 19:10:31 |
| 10 | 240305V10 | 13 | CS5_240305_PAH_VA | 1.00 | SIL -27-80-1 | DTF | 225-555 | 05-Mar-2024 | 19:57:08 |

REVIEWED

Tyler_Fritz , 3/6/2024, 4:12:04 PM

REVIEWED

Carla_Lyon , 3/8/2024, 11:55:39 AM



PAH ICAL

All labeled extraction standards are spiked at 100 pg/uL in MM6_PAH_ICAL_05MAR2024. Departure from standard procedures document attached. CL 08Mar24

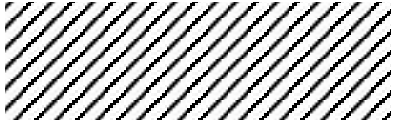
| PAH ICAL pg / µL | CS-1 | CS-2 | CS-3 | CS-4 | CS-5 |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Naphthalene | 10 | 50 | 100 | 500 | 1000 |
| 2-Methylnaphthalene | 10 | 50 | 100 | 500 | 1000 |
| Acenaphthylene | 10 | 50 | 100 | 500 | 1000 |
| Acenaphthene | 10 | 50 | 100 | 500 | 1000 |
| Fluorene | 10 | 50 | 100 | 500 | 1000 |
| Phenanthrene | 10 | 50 | 100 | 500 | 1000 |
| Anthracene | 10 | 50 | 100 | 500 | 1000 |
| Fluoranthene | 10 | 50 | 100 | 500 | 1000 |
| Pyrene | 10 | 50 | 100 | 500 | 1000 |
| Benzo(a)Anthracene | 10 | 50 | 100 | 500 | 1000 |
| Chrysene | 10 | 50 | 100 | 500 | 1000 |
| Benzo(b)Fluoranthene | 10 | 50 | 100 | 500 | 1000 |
| Benzo(k)Fluoranthene | 10 | 50 | 100 | 500 | 1000 |
| Benzo(e)Pyrene | 10 | 50 | 100 | 500 | 1000 |
| Benzo(a)Pyrene | 10 | 50 | 100 | 500 | 1000 |
| Perylene | 10 | 50 | 100 | 500 | 1000 |
| Indeno(123-cd)Pyrene | 10 | 50 | 100 | 500 | 1000 |
| Dibenz(a,h)Anthracene | 10 | 50 | 100 | 500 | 1000 |
| Benzo(ghi)Perylene | 10 | 50 | 100 | 500 | 1000 |
| <u>Extraction Standards</u> | | | | | |
| ¹³ C ₆ - Naphthalene | 100 | 100 | 100 | 100 | 100 |
| ¹³ C ₆ -2-Methylnaphthalene | 100 | 100 | 100 | 100 | 100 |
| ¹³ C ₆ - Acenaphthylene | 100 | 100 | 100 | 100 | 100 |
| ¹³ C ₆ -Acenaphthene | 100 | 100 | 100 | 100 | 100 |
| ¹³ C ₆ -Fluorene | 100 | 100 | 100 | 100 | 100 |
| ¹³ C ₆ - Phenanthrene | 100 | 100 | 100 | 100 | 100 |
| ¹³ C ₆ -Anthracene | 100 | 100 | 100 | 100 | 100 |
| ¹³ C ₆ - Fluoranthene | 100 | 100 | 100 | 100 | 100 |
| ¹³ C ₃ -Pyrene | 100 | 100 | 100 | 100 | 100 |
| ¹³ C ₆ - Benzo(a)Anthracene | 100 | 100 | 100 | 100 | 100 |
| ¹³ C ₆ - Chrysene | 100 | 100 | 100 | 100 | 100 |
| ¹³ C ₆ - Benzo(b)Fluoranthene | 200 100 | 200 100 | 200 100 | 200 100 | 200 100 |
| ¹³ C ₆ - Benzo(k)Fluoranthene | 200 100 | 200 100 | 200 100 | 200 100 | 200 100 |
| ¹³ C ₄ -Benzo(e)Pyrene | 200 100 | 200 100 | 200 100 | 200 100 | 200 100 |
| ¹³ C ₄ - Benzo(a)Pyrene | 200 100 | 200 100 | 200 100 | 200 100 | 200 100 |
| d ₁₂ - Perylene | 200 100 | 200 100 | 200 100 | 200 100 | 200 100 |
| ¹³ C ₆ - Indeno(123-cd)Pyrene | 200 100 | 200 100 | 200 100 | 200 100 | 200 100 |
| ¹³ C ₆ - Dibenz(a,h)Anthracene | 200 100 | 200 100 | 200 100 | 200 100 | 200 100 |
| ¹³ C ₁₂ - Benzo(ghi)Perylene | 200 100 | 200 100 | 200 100 | 200 100 | 200 100 |
| <u>Sampling Standards</u> | | | | | |
| d ₁₀ -Fluorene | 100 | 100 | 100 | 100 | 100 |
| d ₁₄ -Terphenyl | 100 | 100 | 100 | 100 | 100 |
| <u>Alternate Standard</u> | | | | | |
| d ₁₀ -Anthracene | 100 | 100 | 100 | 100 | 100 |
| <u>Injection Standards</u> | | | | | |
| d ₁₀ -2-Methylnaphthalene | 100 | 100 | 100 | 100 | 100 |
| d ₁₀ -Acenaphthene | 100 | 100 | 100 | 100 | 100 |
| d ₁₀ -Pyrene | 100 | 100 | 100 | 100 | 100 |
| d ₁₂ -Benzo(a)Pyrene | 100 | 100 | 100 | 100 | 100 |

PAH STD Data

| Name | JS/ES Name |
|-----------------------------|----------------------|
| 13C6-Naphthalene | JS-Methylnaphthalene |
| 13C6-2-Methylnaphthalene | JS-Methylnaphthalene |
| 13C6-Acenaphthylene | JS-Acenaphthene |
| 13C6-Acenaphthene | JS-Acenaphthene |
| 13C6-Fluorene | JS-Acenaphthene |
| 13C6-Phenanthrene | JS-Acenaphthene |
| 13C6-Anthracene | JS-Acenaphthene |
| 13C6-Fluoranthene | JS-Pyrene |
| 13C3-Pyrene | JS-Pyrene |
| 13C6-Benzo(a)Anthracene | JS-Pyrene |
| 13C6-Chrysene | JS-Pyrene |
| 13C6-Benzo(b)Fluoranthene | JS-Benzo(a)Pyrene |
| 13C6-Benzo(k)Fluoranthene | JS-Benzo(a)Pyrene |
| 13C4-Benzo(e)Pyrene | JS-Benzo(a)Pyrene |
| 13C4-Benzo(a)Pyrene | JS-Benzo(a)Pyrene |
| d12-Perylene | JS-Benzo(a)Pyrene |
| 13C6-Indeno(1,2,3-cd)Pyrene | JS-Benzo(a)Pyrene |
| 13C6-Dibenzo(ah)Anthracene | JS-Benzo(a)Pyrene |
| 13C12-Benzo(ghi)Perylene | JS-Benzo(a)Pyrene |

| | |
|--------------|-------------------|
| SS-Fluorene | 13C6-Fluorene |
| SS-Terphenyl | 13C6-Fluoranthene |

| | |
|----------------|-----------------|
| AS--Anthracene | JS-Acenaphthene |
|----------------|-----------------|

| | |
|----------------------|--|
| JS-Methylnaphthalene |  |
| JS-Acenaphthene | |
| JS-Pyrene | |
| JS-Benzo(a)Pyrene | |

HR-PAH QC Summary

SGS North America

Printed: 6-Mar-24 15:58

Lab ID: CS1_240305_PAH_VA
Acquired: 05 Mar 2024 16:50:44
Datafile: 240305V06

MM6_PAH_ICAL_05MAR2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|------------------------|-------|----------|----|------|------|--------|
| Naphthalene | 9.55 | 1.02E+07 | - | 0.99 | 0.94 | -4.8% |
| 2-Methylnaphthalene | 12.28 | 7.53E+06 | - | 1.01 | 0.98 | -2.7% |
| Acenaphthylene | 15.28 | 5.12E+06 | - | 0.92 | 0.80 | -13.1% |
| Acenaphthene | 15.85 | 3.99E+06 | - | 1.01 | 0.95 | -6.5% |
| Fluorene | 17.46 | 4.94E+06 | - | 1.02 | 0.95 | -7.0% |
| Phenanthrene | 20.22 | 8.66E+06 | - | 1.00 | 0.98 | -2.1% |
| Anthracene | 20.36 | 7.41E+06 | - | 1.23 | 1.19 | -3.8% |
| Fluoranthene | 23.38 | 6.78E+06 | - | 0.92 | 0.88 | -4.1% |
| Pyrene | 23.96 | 7.50E+06 | - | 0.98 | 0.98 | 0.0% |
| Benzo(a)Anthracene | 27.00 | 4.68E+06 | - | 1.00 | 0.94 | -6.2% |
| Chrysene | 27.09 | 6.89E+06 | - | 1.01 | 0.96 | -4.3% |
| Benzo(b)Fluoranthene | 30.39 | 3.00E+06 | - | 0.98 | 0.99 | 1.2% |
| Benzo(k)Fluoranthene | 30.49 | 3.77E+06 | - | 0.92 | 0.84 | -8.2% |
| Benzo(e)Pyrene | 31.47 | 3.78E+06 | - | 0.98 | 0.96 | -1.7% |
| Benzo(a)Pyrene | 31.70 | 2.69E+06 | - | 0.98 | 0.87 | -11.5% |
| Perylene | 32.05 | 2.52E+06 | - | 1.06 | 0.91 | -14.0% |
| Indeno(1,2,3-cd)Pyrene | 37.47 | 1.69E+06 | - | 0.92 | 0.87 | -5.5% |
| Dibenzo(a,h)Anthracene | 37.68 | 1.76E+06 | - | 0.94 | 0.89 | -5.1% |
| Benzo(ghi)Perylene | 39.19 | 2.68E+06 | - | 0.97 | 0.87 | -9.7% |

HR-PAH QC Summary

SGS North America

Printed: 6-Mar-24 15:58

Lab ID: CS1_240305_PAH_VA
Acquired: 05 Mar 2024 16:50:44
Datafile: 240305V06

MM6_PAH_ICAL_05MAR2024

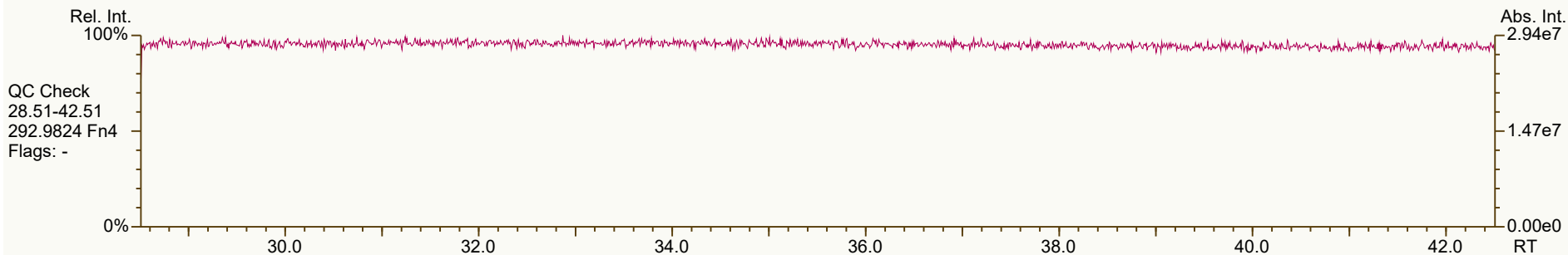
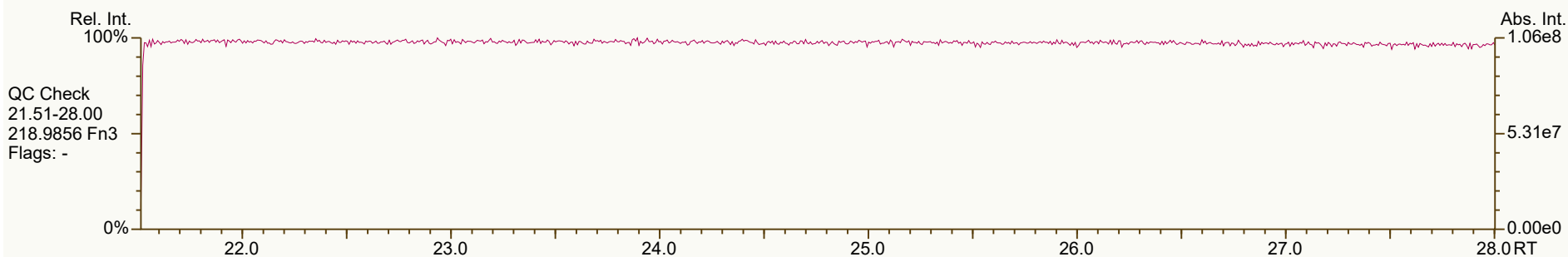
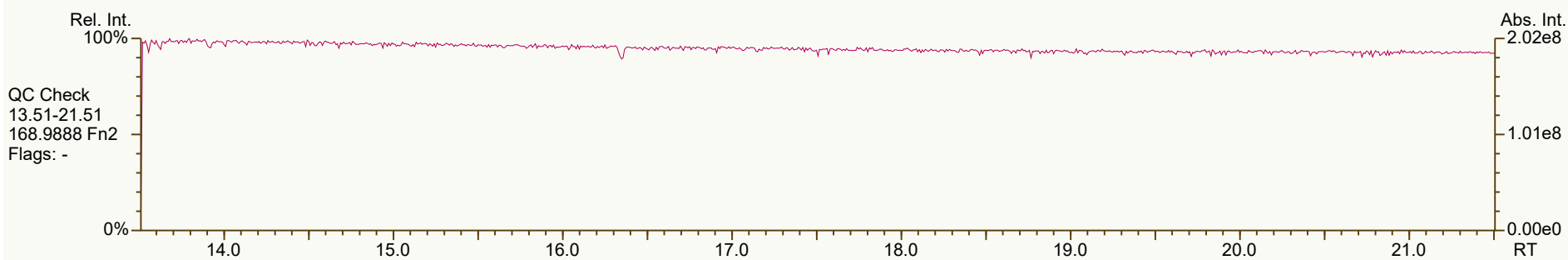
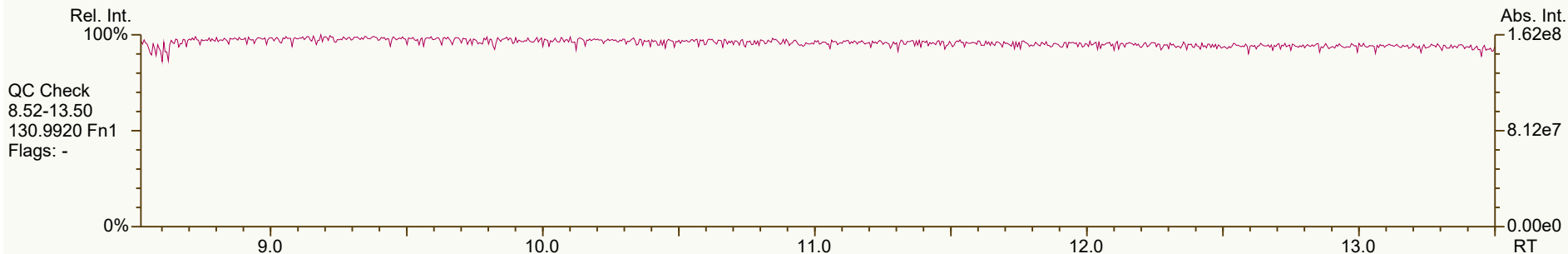
| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-----------------------------|-------|----------|----|------|------|--------|
| 13C6-Naphthalene | 9.54 | 1.08E+08 | - | 1.35 | 1.41 | 4.7% |
| 13C6-2-Methylnaphthalene | 12.27 | 7.68E+07 | - | 0.99 | 1.01 | 1.8% |
| 13C6-Acenaphthylene | 15.27 | 6.39E+07 | - | 1.37 | 1.41 | 3.2% |
| 13C6-Acenaphthene | 15.84 | 4.21E+07 | - | 0.91 | 0.93 | 2.2% |
| 13C6-Fluorene | 17.46 | 5.23E+07 | - | 1.09 | 1.15 | 5.6% |
| 13C6-Phenanthrene | 20.22 | 8.87E+07 | - | 1.91 | 1.96 | 2.6% |
| 13C6-Anthracene | 20.36 | 6.25E+07 | - | 1.35 | 1.38 | 2.4% |
| 13C6-Fluoranthene | 23.37 | 7.71E+07 | - | 1.23 | 1.26 | 3.0% |
| 13C3-Pyrene | 23.96 | 7.65E+07 | - | 1.23 | 1.25 | 1.6% |
| 13C6-Benzo(a)Anthracene | 26.99 | 4.98E+07 | - | 0.86 | 0.82 | -5.6% |
| 13C6-Chrysene | 27.09 | 7.14E+07 | - | 1.19 | 1.17 | -1.5% |
| 13C6-Benzo(b)Fluoranthene | 30.39 | 3.01E+07 | - | 1.28 | 1.29 | 1.4% |
| 13C6-Benzo(k)Fluoranthene | 30.49 | 4.48E+07 | - | 1.82 | 1.92 | 5.7% |
| 13C4-Benzo(e)Pyrene | 31.47 | 3.94E+07 | - | 1.56 | 1.69 | 8.4% |
| 13C4-Benzo(a)Pyrene | 31.69 | 3.09E+07 | - | 1.23 | 1.33 | 8.3% |
| d12-Perylene | 31.92 | 2.77E+07 | - | 1.13 | 1.19 | 5.7% |
| 13C6-Indeno(1,2,3-cd)Pyrene | 37.47 | 1.95E+07 | - | 0.85 | 0.84 | -1.6% |
| 13C6-Dibenzo(ah)Anthracene | 37.66 | 1.98E+07 | - | 0.94 | 0.85 | -9.7% |
| 13C12-Benzo(ghi)Perylene | 39.18 | 3.07E+07 | - | 1.33 | 1.32 | -0.8% |
| AS--Anthracene | 20.31 | 5.00E+07 | - | 1.17 | 1.10 | -5.8% |
| SS-Fluorene | 17.37 | 4.63E+07 | - | 1.00 | 0.89 | -11.6% |
| SS-Terphenyl | 24.35 | 5.52E+07 | - | 0.79 | 0.72 | -9.9% |
| JS-Methylnaphthalene | 12.15 | 7.63E+07 | - | - | - | - |
| JS-Acenaphthene | 15.74 | 4.53E+07 | - | - | - | - |
| JS-Pyrene | 23.91 | 6.10E+07 | - | - | - | - |
| JS-Benzo(a)Pyrene | 31.59 | 2.33E+07 | - | - | - | - |

974-350-PBN

SGS ID: CS1_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-2
VSIR EI+ Expt: pah GC: pah Vial: 9

Acq: 05-Mar-2024 16:50:44
User: DTF Datafile: 240305V06



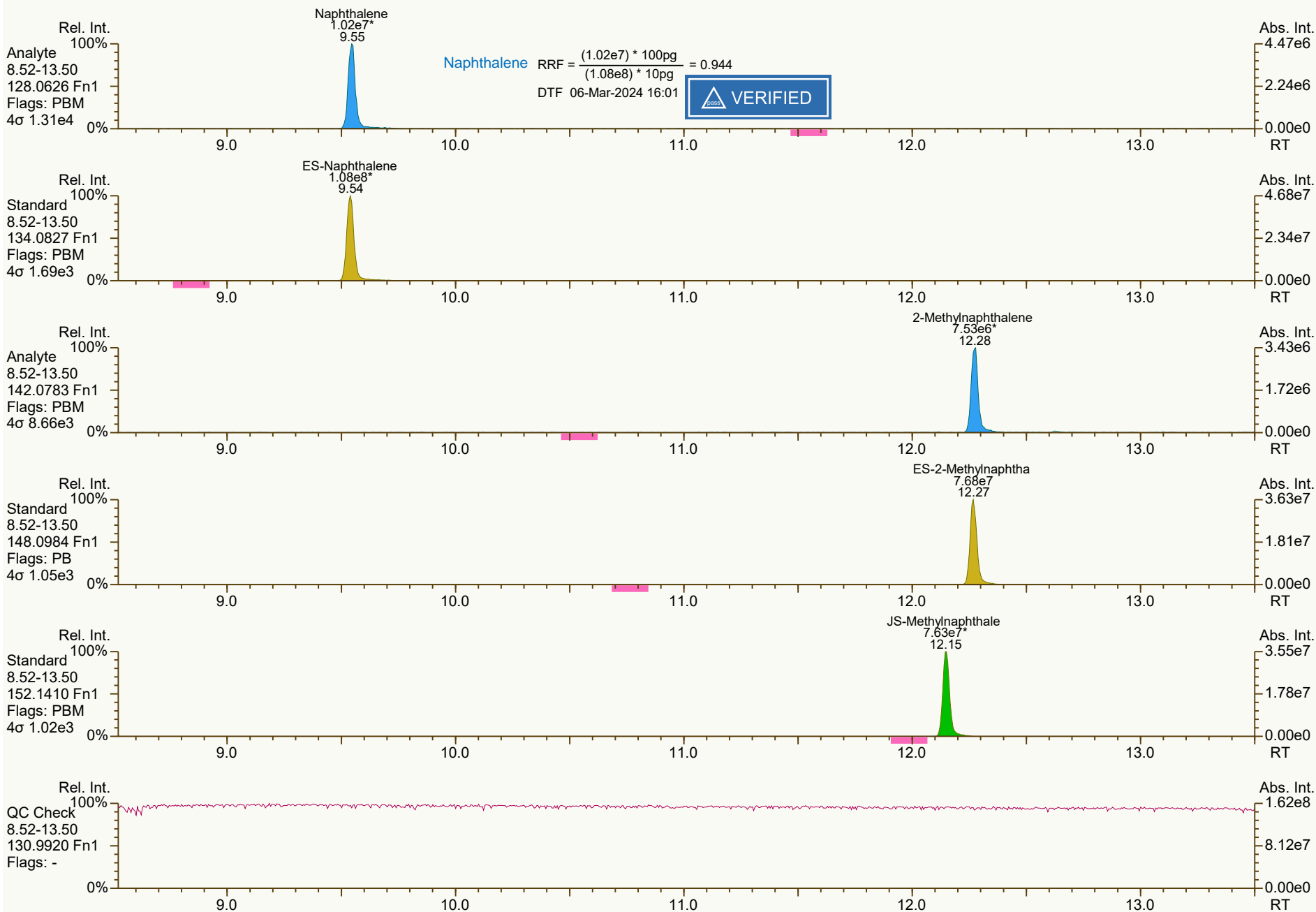
Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS1_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:01 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 974-350

Peak annotation: Areas, Centroids
PKD: n/a Printed: 06-Mar-2024 16:07 Page 1 of 9

SGS ID: CS1_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-2
VSIR EI+ Expt: pah GC: pah Vial: 9

Acq: 05-Mar-2024 16:50:44
User: DTF Datafile: 240305V06



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS1_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:01 (DTF)

SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1816, 6614, 5937, 1574, 9771 scc: 974-350

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:33 (DTF) Printed: 06-Mar-2024 16:07 Page 2 of 9

SGS ID: CS1_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-2
VSIR EI+ Expt: pah GC: pah Vial: 9

Acq: 05-Mar-2024 16:50:44
User: DTF Datafile: 240305V06

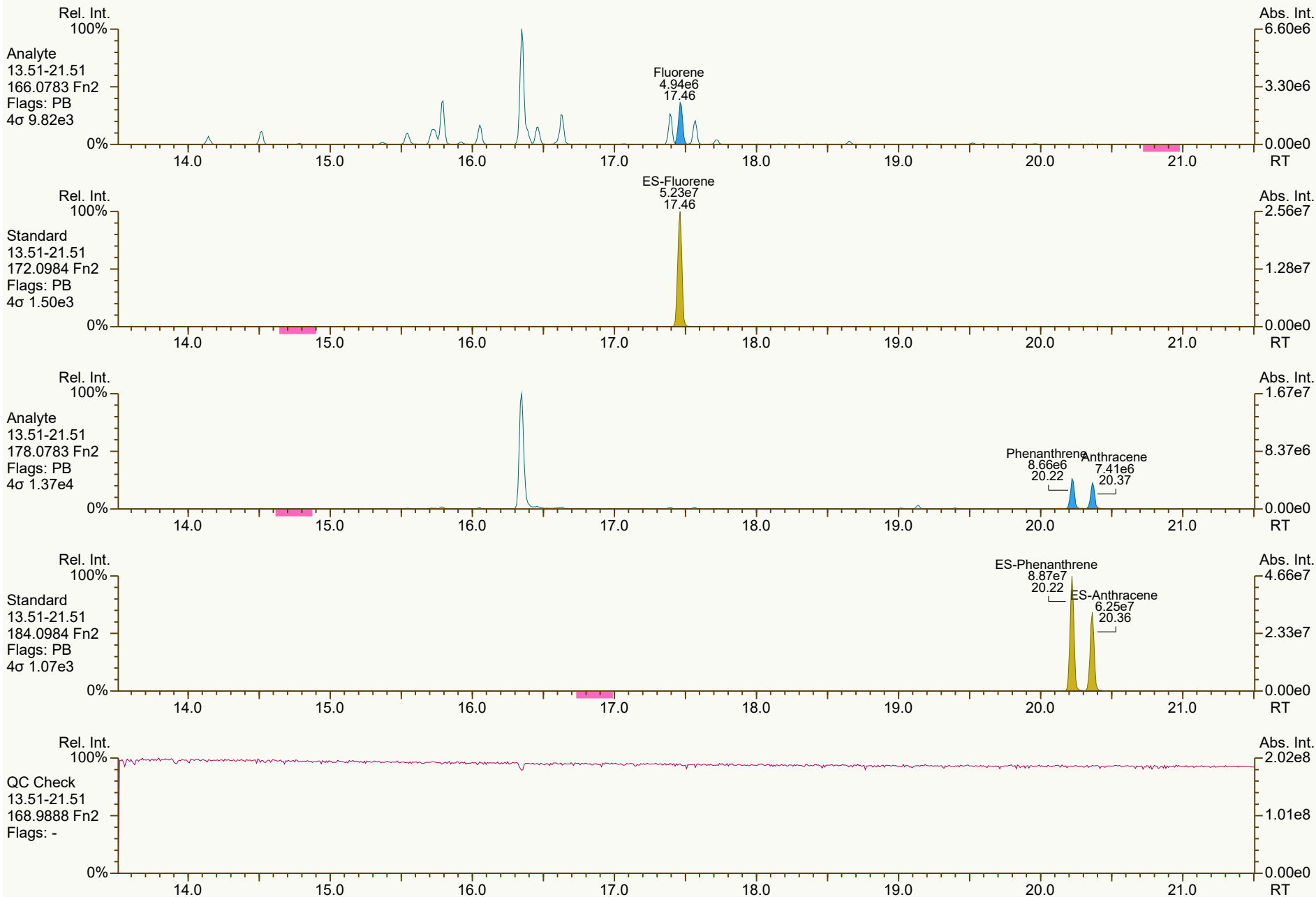


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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 7655, 4097, 5578, 7722, 3352 scc: 974-350 Revised: 06-Mar-2024 14:34 (DTF) Printed: 06-Mar-2024 16:07 Page 3 of 9

SGS ID: CS1_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-2
VSIR EI+ Expt: pah GC: pah Vial: 9

Acq: 05-Mar-2024 16:50:44
User: DTF Datafile: 240305V06



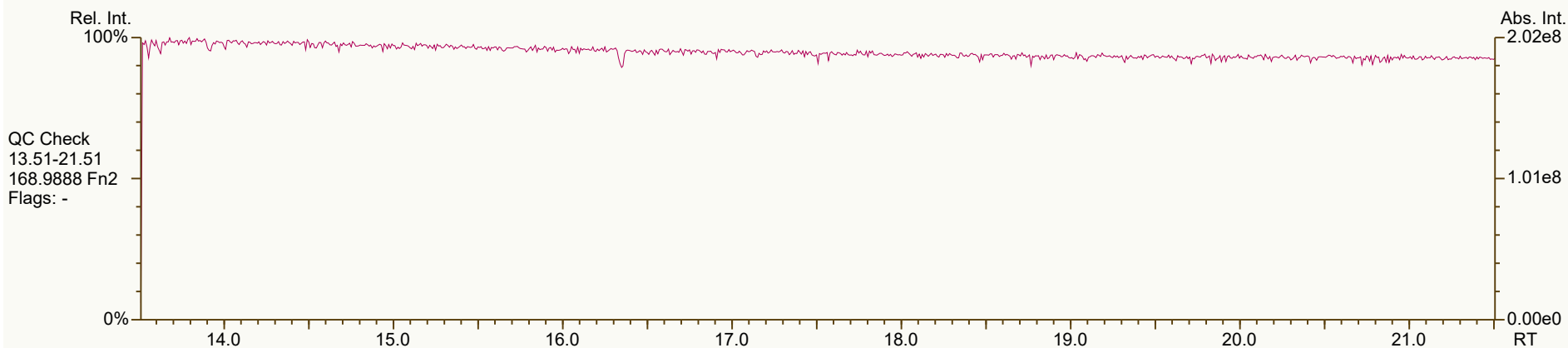
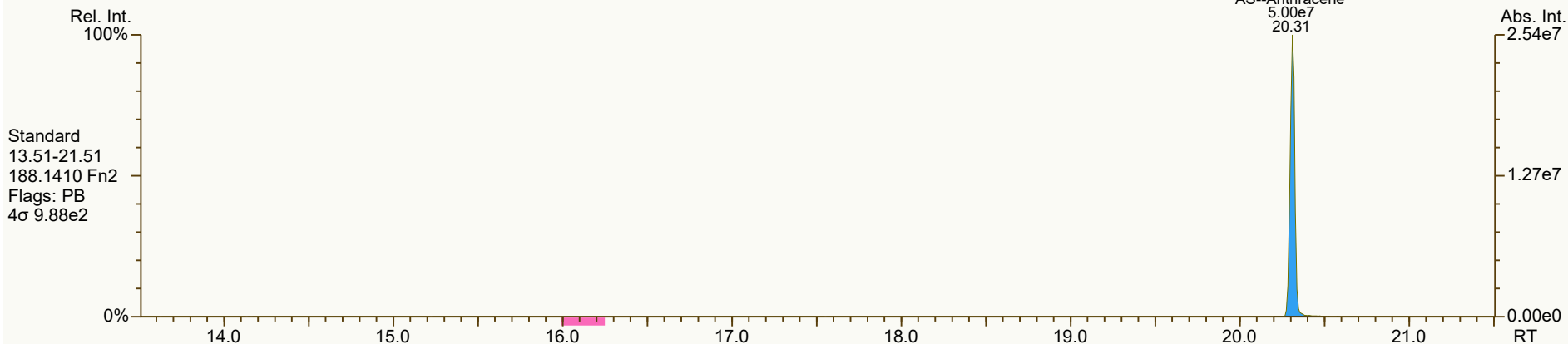
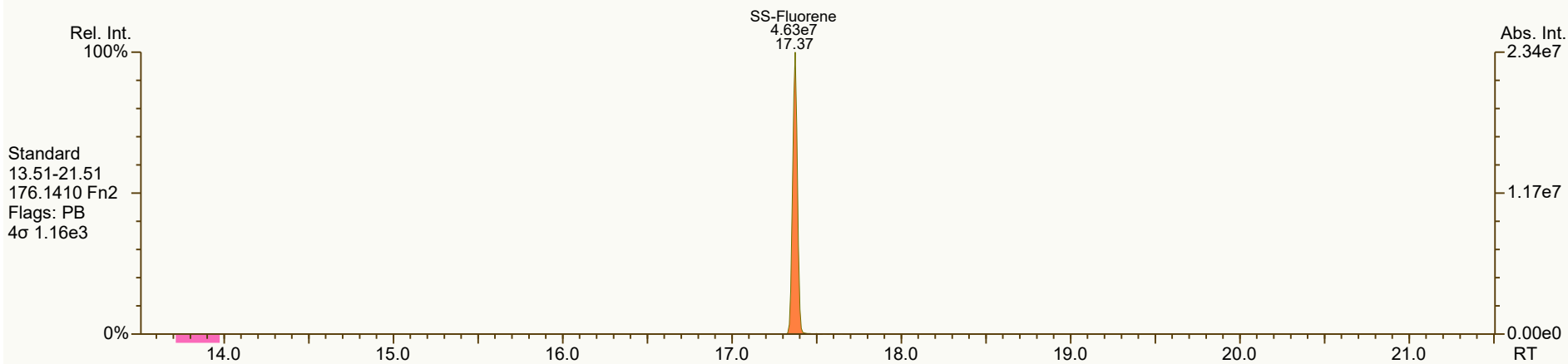
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 8963, 1115, 5090, 0235 scc: 974-350

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:33 Printed: 06-Mar-2024 16:07 Page 4 of 9

SGS ID: CS1_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-2
VSIR EI+ Expt: pah GC: pah Vial: 9

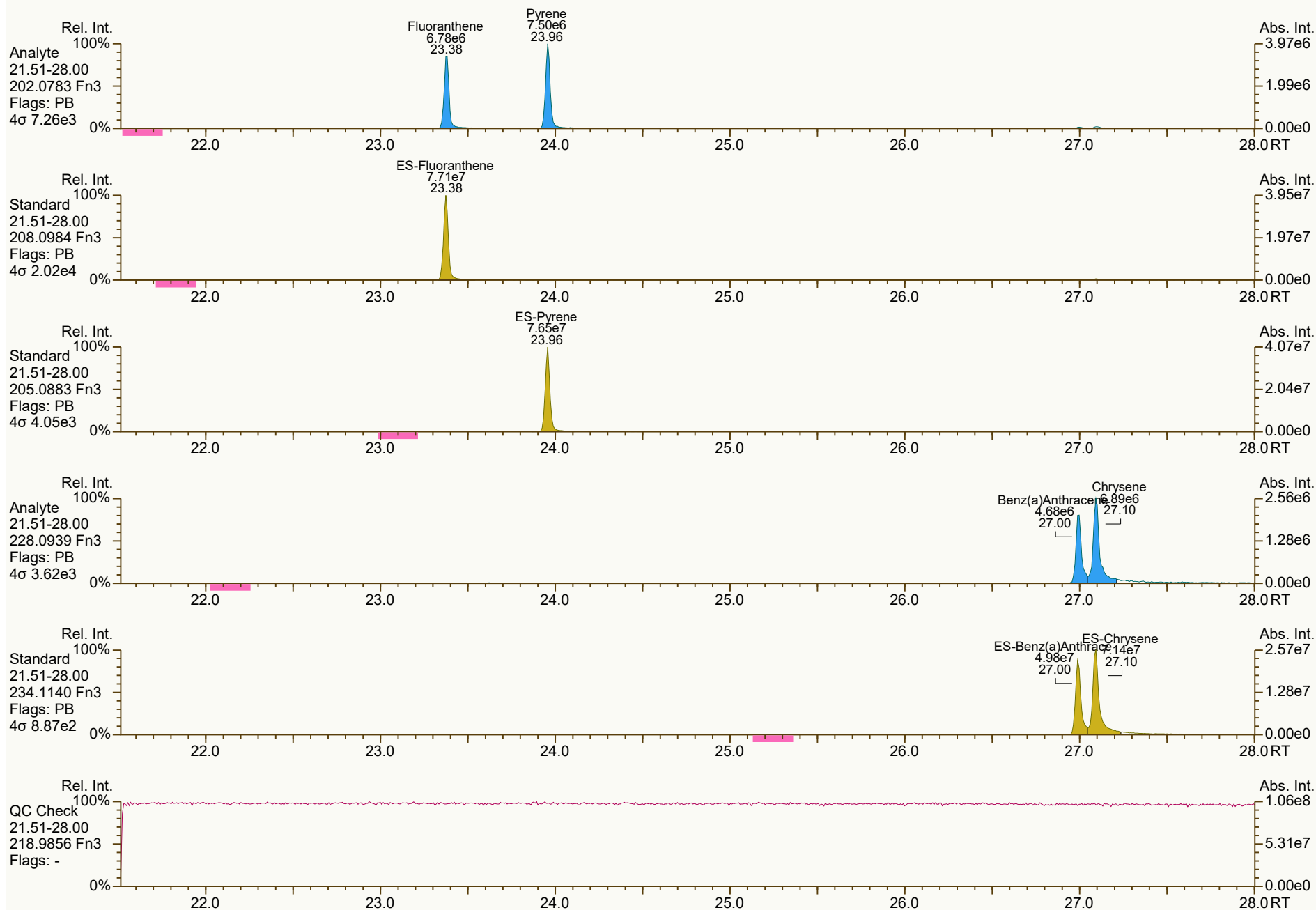
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User: DTF Datafile: 240305V06



SGS ID: CS1_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-2
VSIR EI+ Expt: pah GC: pah Vial: 9

Acq: 05-Mar-2024 16:50:44
User: DTF Datafile: 240305V06



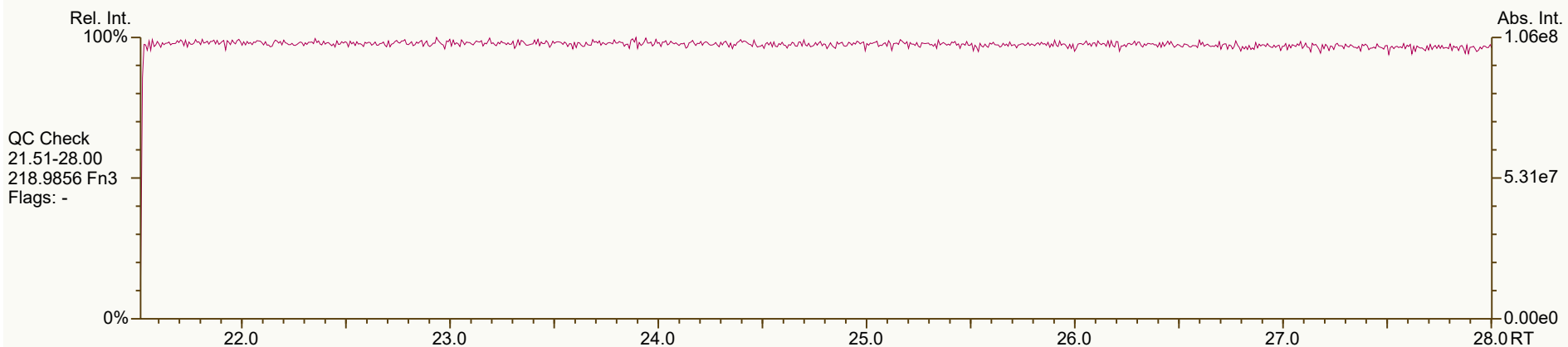
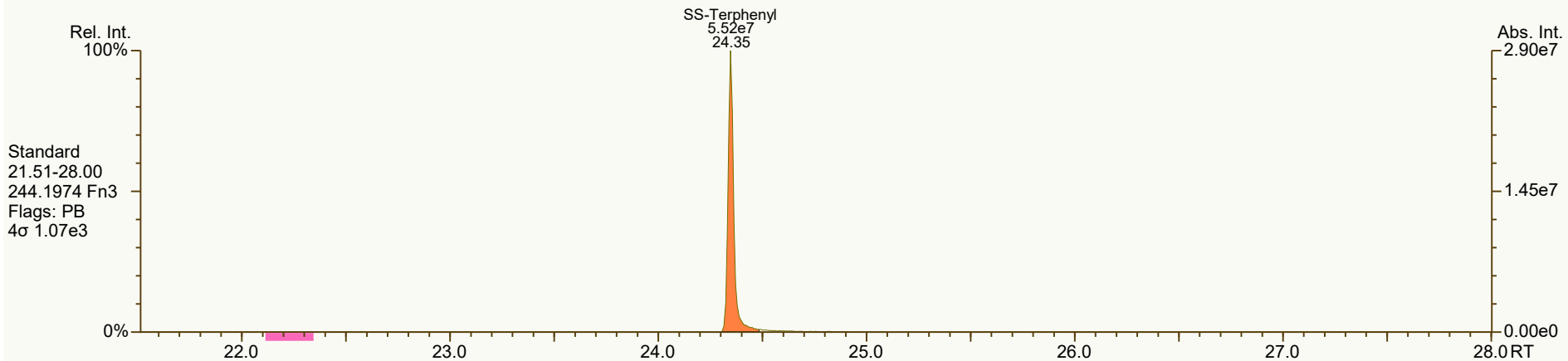
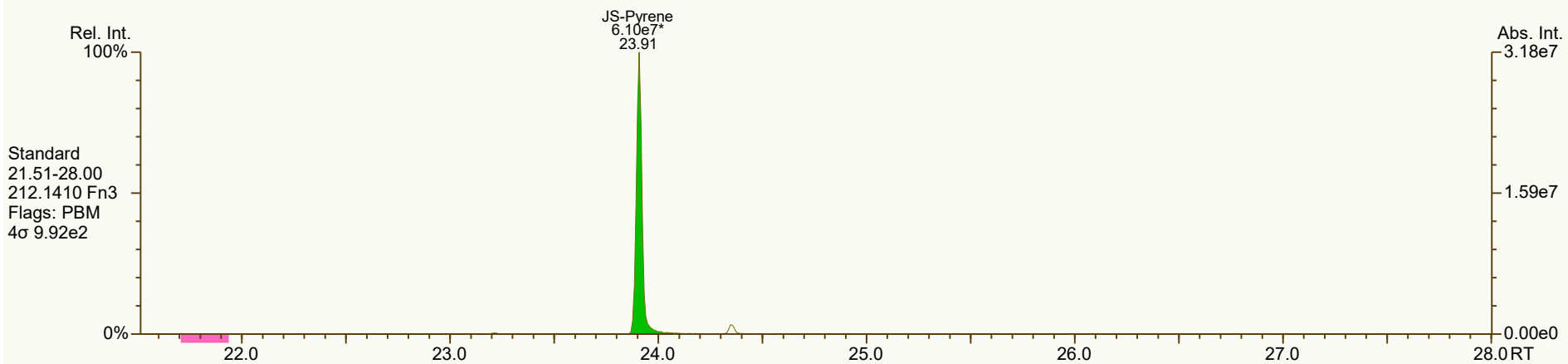
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 9766, 9835, 2532, 1235, 6354 scc: 974-350

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:33 Printed: 06-Mar-2024 16:07 Page 6 of 9

SGS ID: CS1_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-2
VSIR EI+ Expt: pah GC: pah Vial: 9

Acq: 05-Mar-2024 16:50:44
User: DTF Datafile: 240305V06



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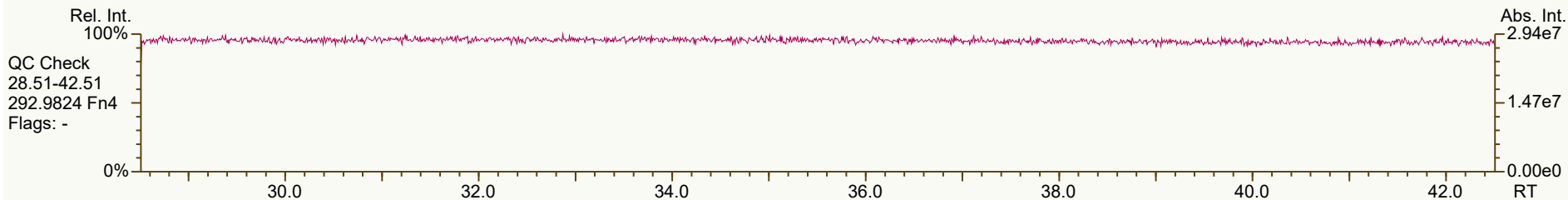
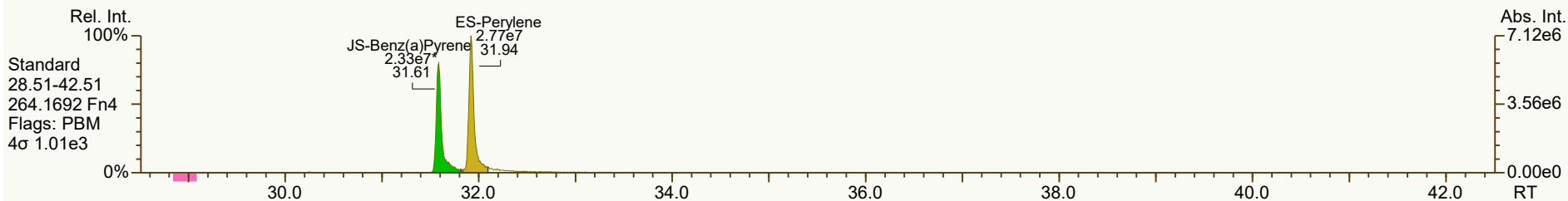
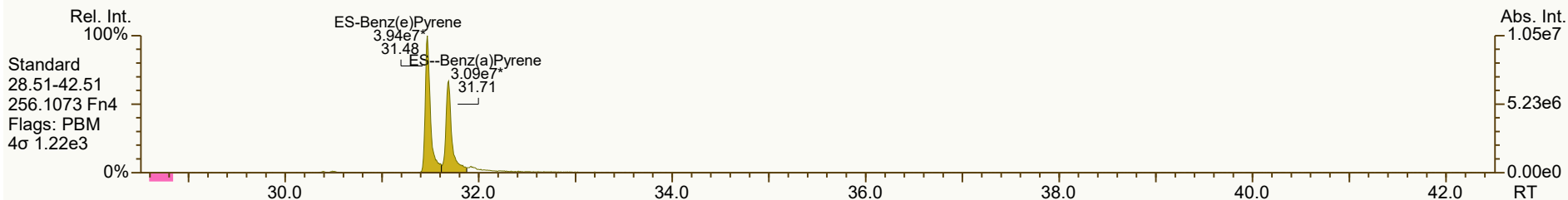
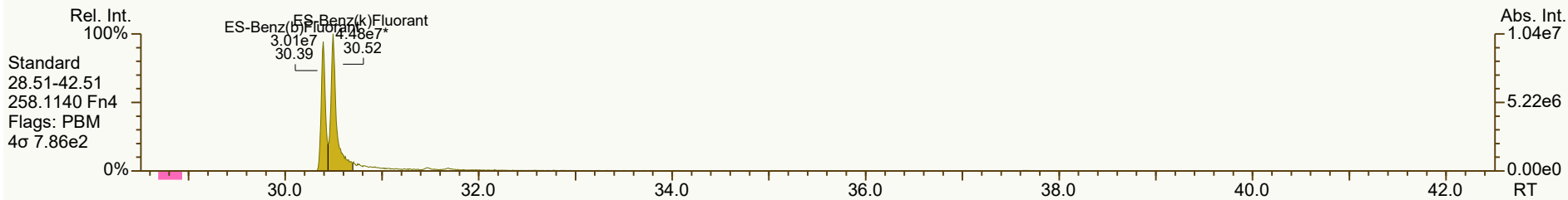
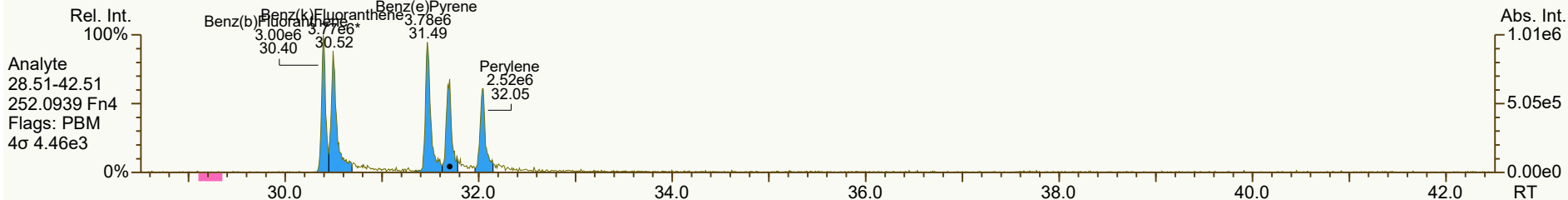
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 7312, 7736 scc: 974-350

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:33 (DTF) Printed: 06-Mar-2024 16:07 Page 7 of 9

SGS ID: CS1_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-2
VSIR EI+ Expt: pah GC: pah Vial: 9

Acq: 05-Mar-2024 16:50:44
User: DTF Datafile: 240305V06



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS1_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:01 (DTF)

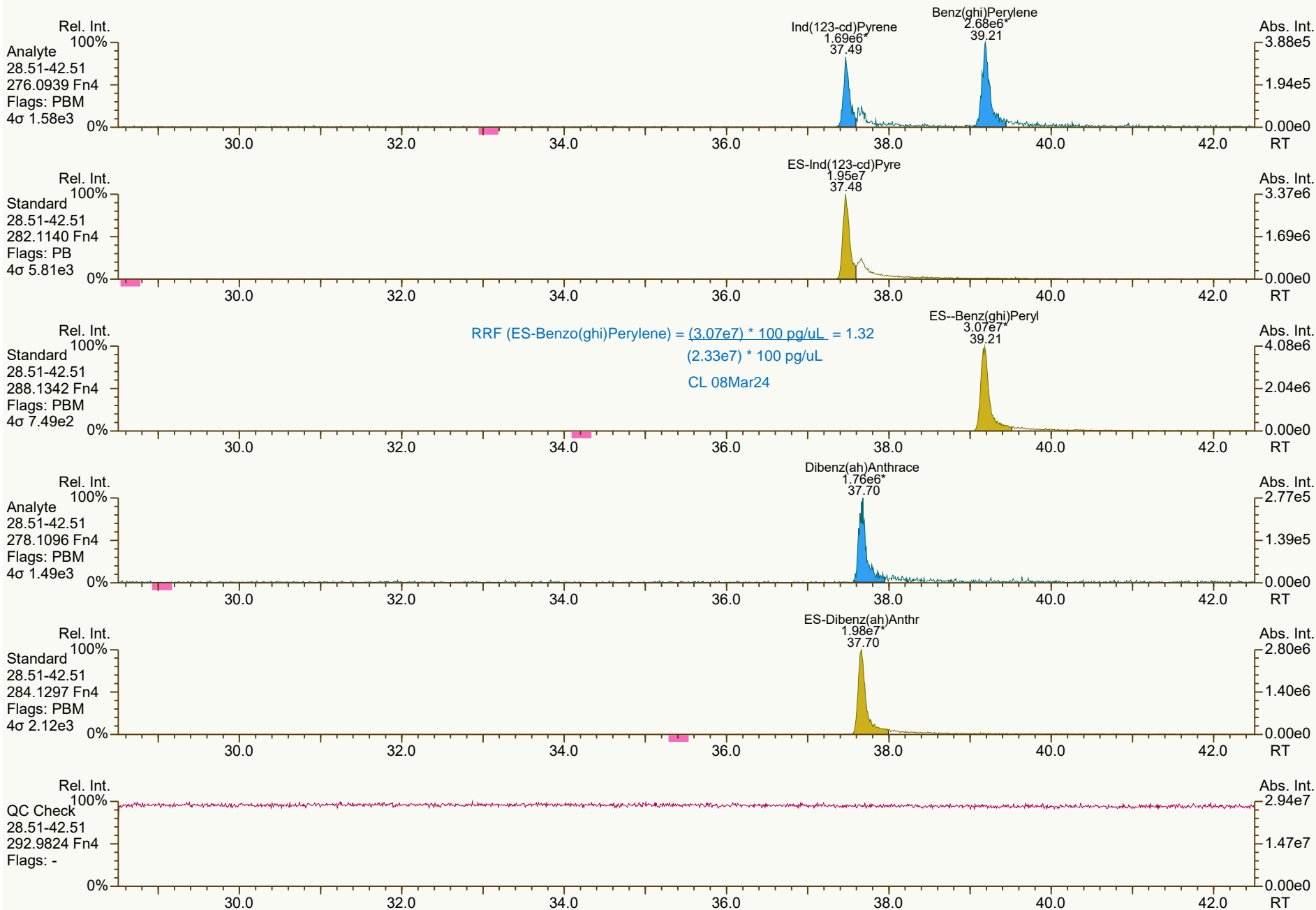
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 3830, 9613, 7178, 6597 scc: 974-350

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:36 (DTF) Printed: 06-Mar-2024 16:07 Page 8 of 9

SGS ID: CS1_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-2
VSIR EI+ Expt: pah GC: pah Vial: 9

Acq: 05-Mar-2024 16:50:44
User: DTF Datafile: 240305V06



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS1_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:01 (DTF)

SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 4513, 0313, 5138, 9142, 8180 scc: 974-350

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:36 (DTF) Printed: 06-Mar-2024 16:07 Page 9 of 9

HR-PAH QC Summary

SGS North America

Printed: 6-Mar-24 15:58

Lab ID: CS2_240305_PAH_VA
Acquired: 05 Mar 2024 17:37:15
Datafile: 240305V07

MM6_PAH_ICAL_05MAR2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|------------------------|-------|----------|----|------|------|--------|
| Naphthalene | 9.53 | 4.90E+07 | - | 0.99 | 0.95 | -4.5% |
| 2-Methylnaphthalene | 12.26 | 3.65E+07 | - | 1.01 | 0.98 | -3.1% |
| Acenaphthylene | 15.27 | 2.60E+07 | - | 0.92 | 0.86 | -7.1% |
| Acenaphthene | 15.84 | 2.02E+07 | - | 1.01 | 0.98 | -3.0% |
| Fluorene | 17.45 | 2.43E+07 | - | 1.02 | 0.99 | -3.0% |
| Phenanthrene | 20.21 | 4.14E+07 | - | 1.00 | 0.96 | -4.0% |
| Anthracene | 20.36 | 3.57E+07 | - | 1.23 | 1.18 | -4.3% |
| Fluoranthene | 23.37 | 3.38E+07 | - | 0.92 | 0.90 | -1.3% |
| Pyrene | 23.95 | 3.58E+07 | - | 0.98 | 0.96 | -2.0% |
| Benzo(a)Anthracene | 26.98 | 2.35E+07 | - | 1.00 | 0.94 | -5.7% |
| Chrysene | 27.09 | 3.37E+07 | - | 1.01 | 0.97 | -3.9% |
| Benzo(b)Fluoranthene | 30.38 | 1.46E+07 | - | 0.98 | 0.95 | -2.9% |
| Benzo(k)Fluoranthene | 30.49 | 1.79E+07 | - | 0.92 | 0.81 | -12.2% |
| Benzo(e)Pyrene | 31.46 | 1.77E+07 | - | 0.98 | 0.92 | -5.7% |
| Benzo(a)Pyrene | 31.68 | 1.37E+07 | - | 0.98 | 0.87 | -11.5% |
| Perylene | 32.03 | 1.38E+07 | - | 1.06 | 1.03 | -2.4% |
| Indeno(1,2,3-cd)Pyrene | 37.47 | 8.11E+06 | - | 0.92 | 0.86 | -5.7% |
| Dibenzo(a,h)Anthracene | 37.66 | 8.57E+06 | - | 0.94 | 0.89 | -4.6% |
| Benzo(ghi)Perylene | 39.18 | 1.48E+07 | - | 0.97 | 0.94 | -2.8% |

HR-PAH QC Summary

SGS North America

Printed: 6-Mar-24 15:58

Lab ID: CS2_240305_PAH_VA
Acquired: 05 Mar 2024 17:37:15
Datafile: 240305V07

MM6_PAH_ICAL_05MAR2024

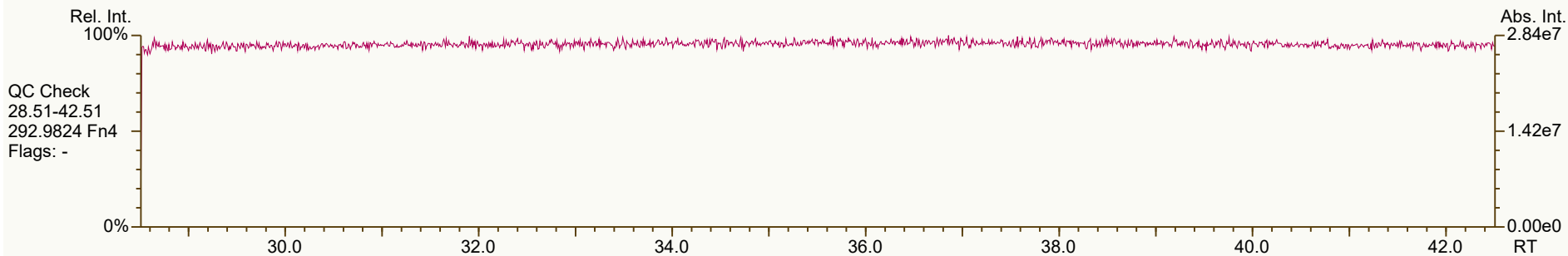
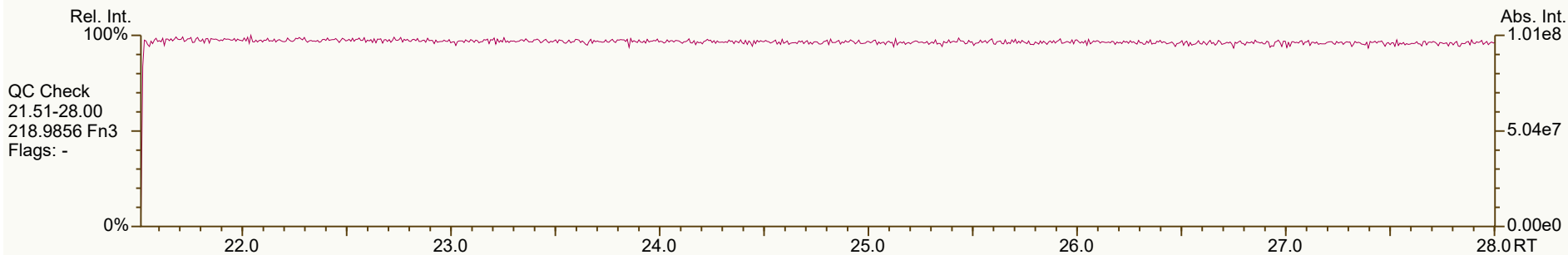
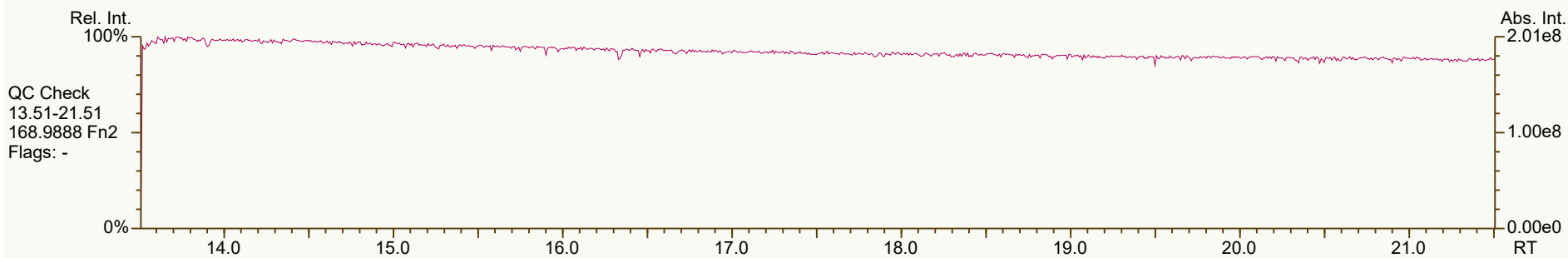
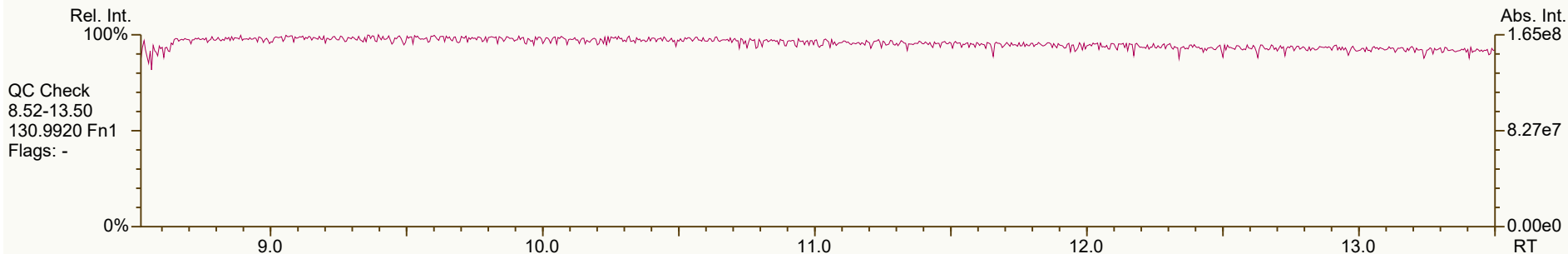
| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-----------------------------|-------|----------|----|------|------|--------|
| 13C6-Naphthalene | 9.53 | 1.04E+08 | - | 1.35 | 1.27 | -5.8% |
| 13C6-2-Methylnaphthalene | 12.26 | 7.48E+07 | - | 0.99 | 0.92 | -7.4% |
| 13C6-Acenaphthylene | 15.26 | 6.06E+07 | - | 1.37 | 1.22 | -10.6% |
| 13C6-Acenaphthene | 15.83 | 4.10E+07 | - | 0.91 | 0.83 | -9.0% |
| 13C6-Fluorene | 17.45 | 4.92E+07 | - | 1.09 | 0.99 | -9.2% |
| 13C6-Phenanthrene | 20.21 | 8.66E+07 | - | 1.91 | 1.75 | -8.6% |
| 13C6-Anthracene | 20.36 | 6.05E+07 | - | 1.35 | 1.22 | -9.4% |
| 13C6-Fluoranthene | 23.37 | 7.48E+07 | - | 1.23 | 1.13 | -7.6% |
| 13C3-Pyrene | 23.95 | 7.46E+07 | - | 1.23 | 1.13 | -8.3% |
| 13C6-Benzo(a)Anthracene | 26.98 | 4.97E+07 | - | 0.86 | 0.75 | -12.7% |
| 13C6-Chrysene | 27.09 | 6.95E+07 | - | 1.19 | 1.05 | -11.4% |
| 13C6-Benzo(b)Fluoranthene | 30.38 | 3.06E+07 | - | 1.28 | 1.19 | -7.0% |
| 13C6-Benzo(k)Fluoranthene | 30.49 | 4.45E+07 | - | 1.82 | 1.73 | -5.0% |
| 13C4-Benzo(e)Pyrene | 31.46 | 3.85E+07 | - | 1.56 | 1.50 | -4.1% |
| 13C4-Benzo(a)Pyrene | 31.68 | 3.15E+07 | - | 1.23 | 1.22 | -0.3% |
| d12-Perylene | 31.92 | 2.68E+07 | - | 1.13 | 1.04 | -7.6% |
| 13C6-Indeno(1,2,3-cd)Pyrene | 37.45 | 1.88E+07 | - | 0.85 | 0.73 | -14.3% |
| 13C6-Dibenzo(ah)Anthracene | 37.65 | 1.92E+07 | - | 0.94 | 0.74 | -20.8% |
| 13C12-Benzo(ghi)Perylene | 39.16 | 3.15E+07 | - | 1.33 | 1.22 | -7.9% |
| AS--Anthracene | 20.30 | 6.05E+07 | - | 1.17 | 1.22 | 4.0% |
| SS-Fluorene | 17.37 | 5.35E+07 | - | 1.00 | 1.09 | 8.5% |
| SS-Terphenyl | 24.34 | 6.52E+07 | - | 0.79 | 0.87 | 9.6% |
| JS-Methylnaphthalene | 12.14 | 8.16E+07 | - | - | - | - |
| JS-Acenaphthene | 15.72 | 4.96E+07 | - | - | - | - |
| JS-Pyrene | 23.90 | 6.60E+07 | - | - | - | - |
| JS-Benzo(a)Pyrene | 31.58 | 2.57E+07 | - | - | - | - |

356-753-WQD

SGS ID: CS2_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-1
VSIR EI+ Expt: pah GC: pah Vial: 10

Acq: 05-Mar-2024 17:37:15
User: DTF Datafile: 240305V07



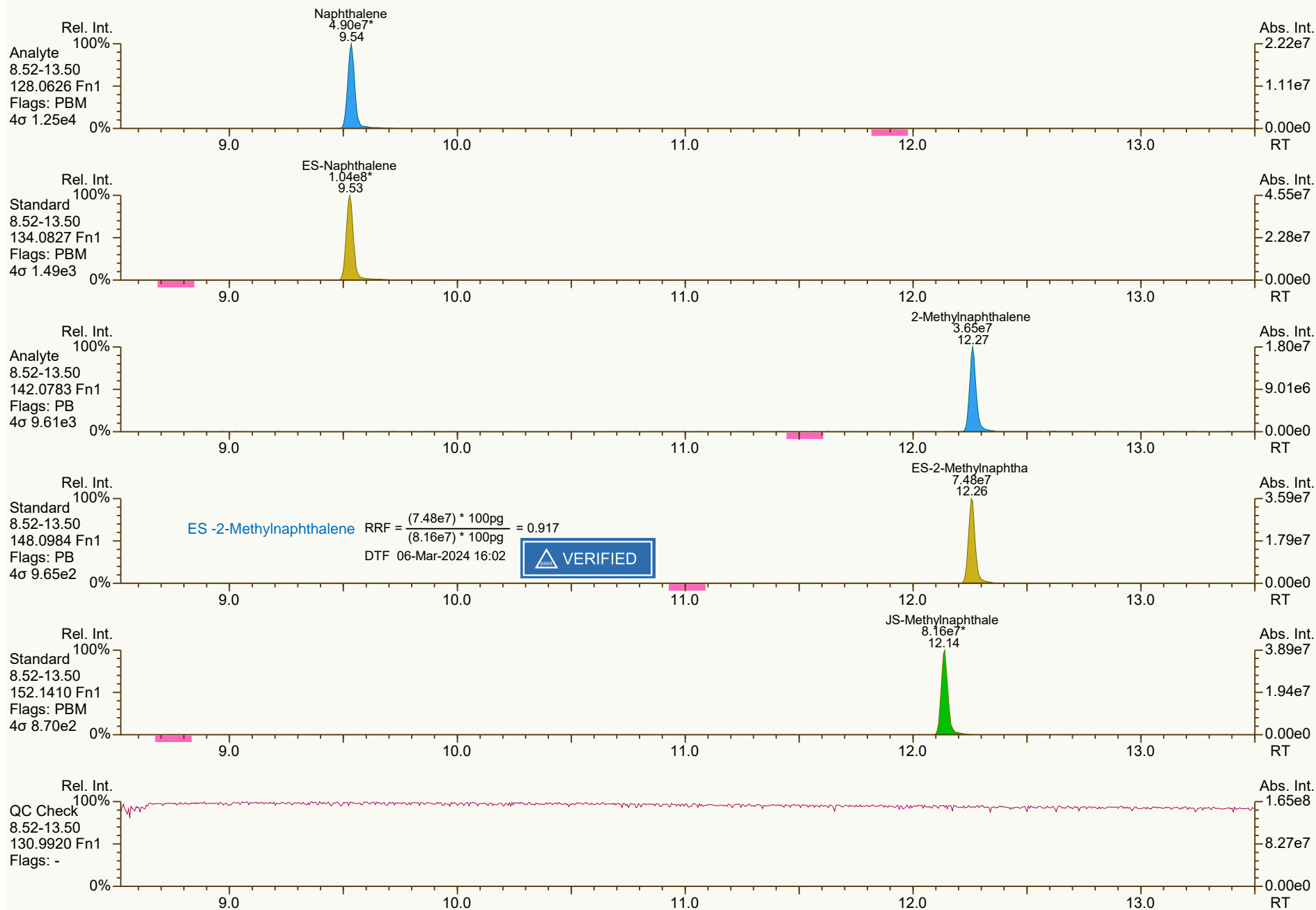
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 356-753

Peak annotation: Areas, Centroids
PKD: n/a Printed: 06-Mar-2024 16:07 Page 1 of 9

SGS ID: CS2_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-1
VSIR EI+ Expt: pah GC: pah Vial: 10

Acq: 05-Mar-2024 17:37:15
User: DTF Datafile: 240305V07



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS2_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:02 (DTF)

SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 8189, 6885, 6463, 9389, 6994 scc: 356-753

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:39 (DTF) Printed: 06-Mar-2024 16:07 Page 2 of 9

SGS ID: CS2_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-1
VSIR EI+ Expt: pah GC: pah Vial: 10

Acq: 05-Mar-2024 17:37:15
User: DTF Datafile: 240305V07



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS2_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:02 (DTF)

Peak annotation: Areas, Centroids

SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 3869, 5214, 7841, 9279, 6227 scc: 356-753

Revised: 06-Mar-2024 14:37 (DTF) Printed: 06-Mar-2024 16:08 Page 3 of 9

SGS ID: CS2_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-1
VSIR EI+ Expt: pah GC: pah Vial: 10

Acq: 05-Mar-2024 17:37:15
User: DTF Datafile: 240305V07



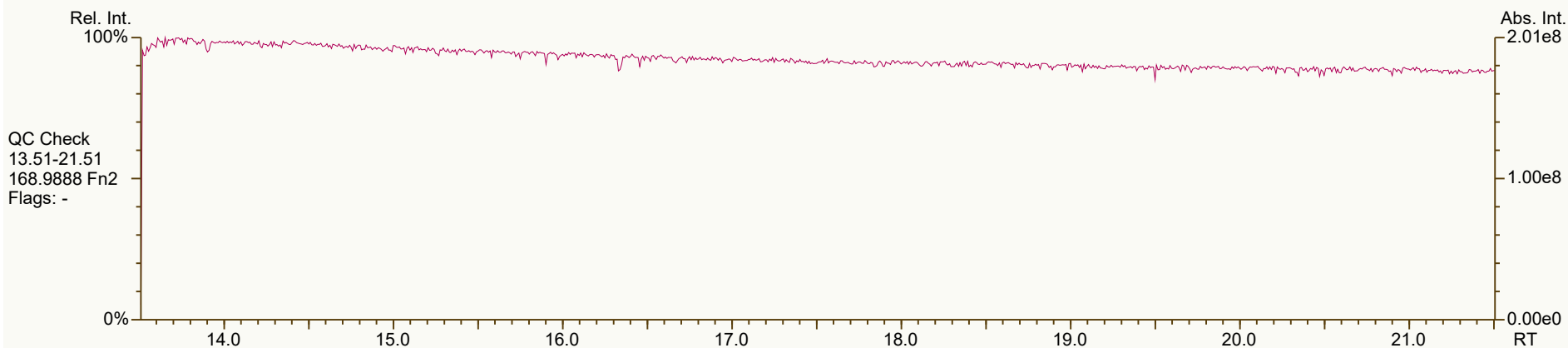
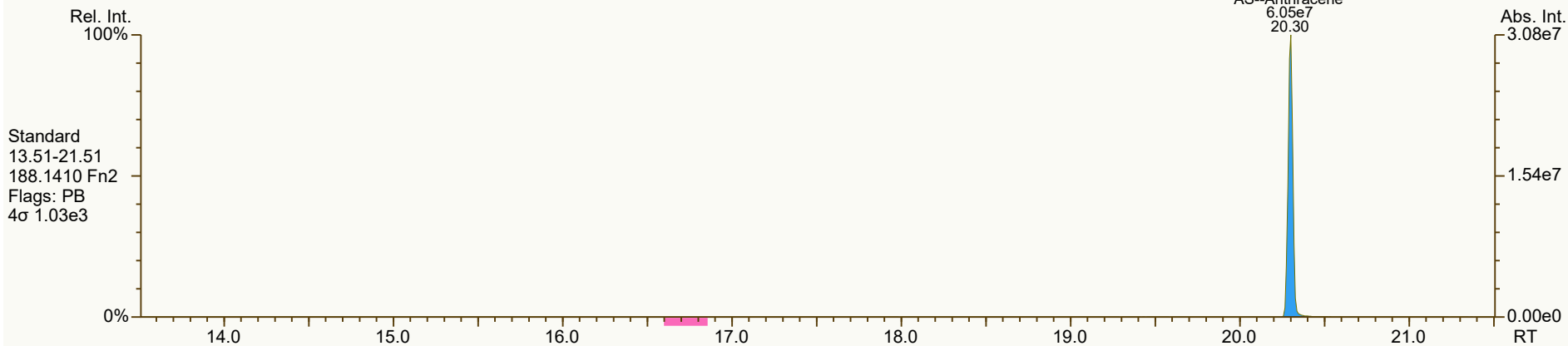
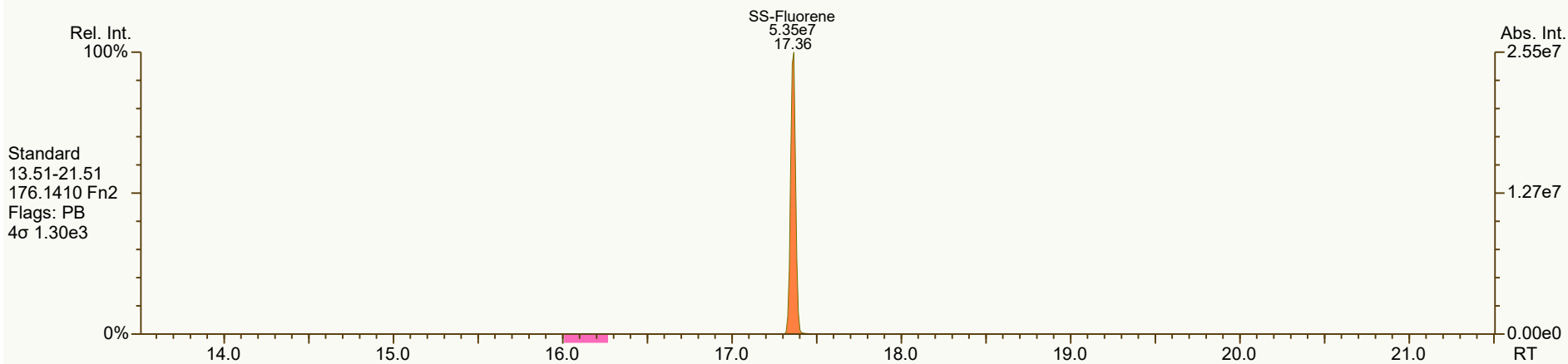
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 0840, 5990, 0852, 3177 scc: 356-753

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:37 Printed: 06-Mar-2024 16:08 Page 4 of 9

SGS ID: CS2_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-1
VSIR EI+ Expt: pah GC: pah Vial: 10

Acq: 05-Mar-2024 17:37:15
User: DTF Datafile: 240305V07



SGS ID: CS2_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-1
VSIR EI+ Expt: pah GC: pah Vial: 10

Acq: 05-Mar-2024 17:37:15
User: DTF Datafile: 240305V07



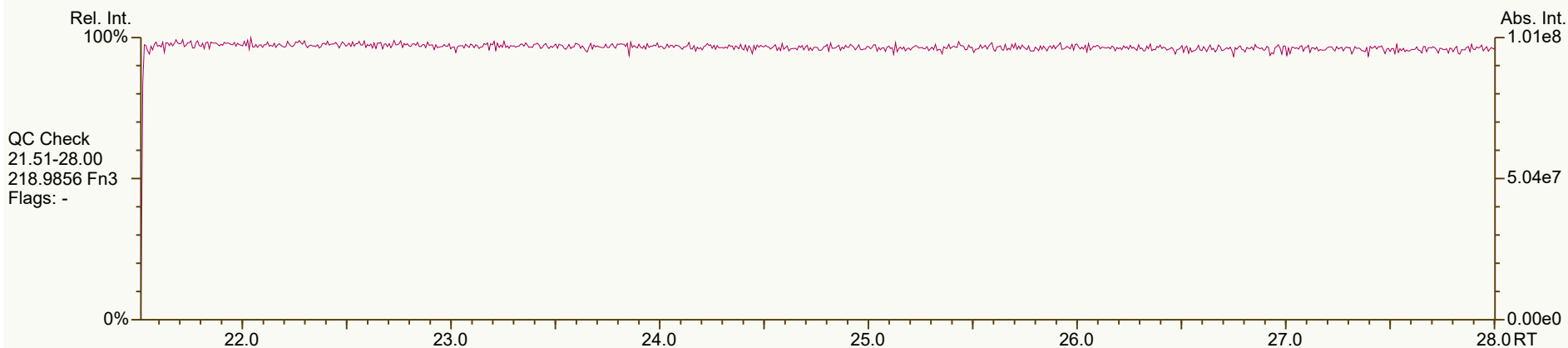
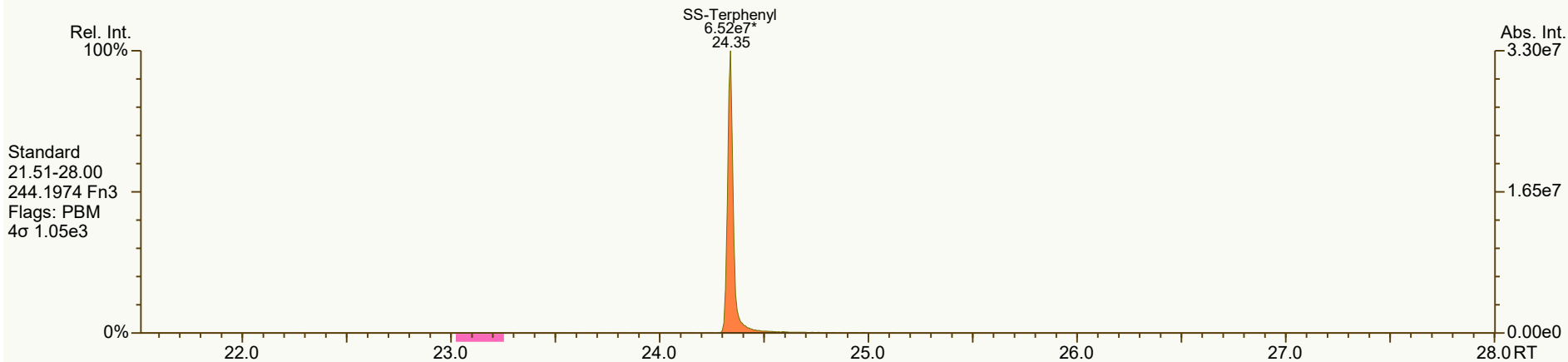
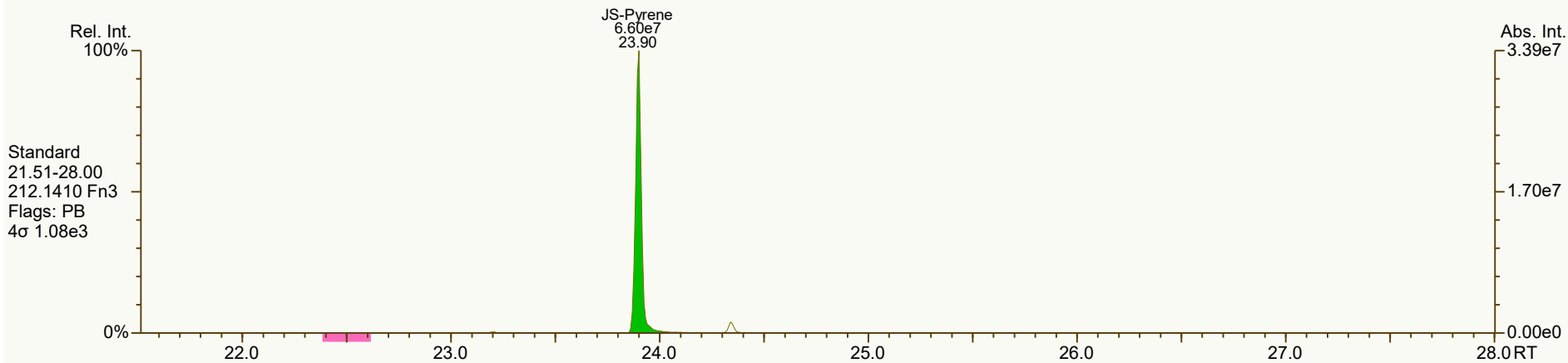
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 8423, 8145, 2330, 8330, 1224 scc: 356-753

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:37 Printed: 06-Mar-2024 16:08 Page 6 of 9

SGS ID: CS2_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-1
VSIR EI+ Expt: pah GC: pah Vial: 10

Acq: 05-Mar-2024 17:37:15
User: DTF Datafile: 240305V07



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS2_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:02 (DTF)

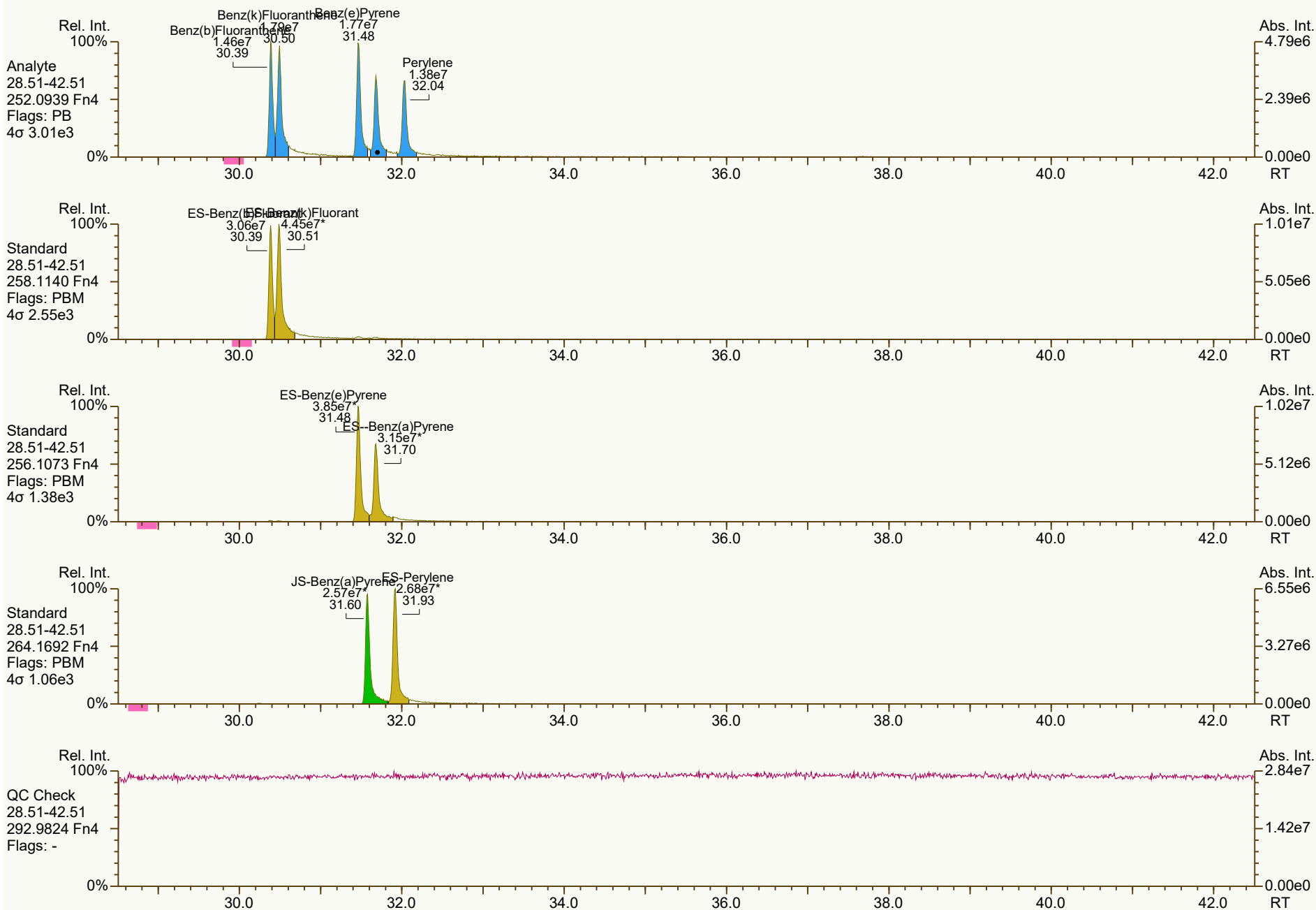
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 5221, 1889 scc: 356-753

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:38 (DTF) Printed: 06-Mar-2024 16:08 Page 7 of 9

SGS ID: CS2_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-1
VSIR EI+ Expt: pah GC: pah Vial: 10

Acq: 05-Mar-2024 17:37:15
User: DTF Datafile: 240305V07



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS2_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:02 (DTF)

SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 6648, 7457, 0341, 4951 scc: 356-753

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:38 (DTF) Printed: 06-Mar-2024 16:08 Page 8 of 9

SGS ID: CS2_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-81-1
VSIR EI+ Expt: pah GC: pah Vial: 10

Acq: 05-Mar-2024 17:37:15
User: DTF Datafile: 240305V07



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS2_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:02 (DTF)

SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 8189, 4920, 2003, 9166, 2013 scc: 356-753

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:39 (DTF) Printed: 06-Mar-2024 16:08 Page 9 of 9

HR-PAH QC Summary

SGS North America

Printed: 6-Mar-24 15:58

Lab ID: CS3_240305_PAH_VA
Acquired: 05 Mar 2024 18:23:53
Datafile: 240305V08

MM6_PAH_ICAL_05MAR2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|------------------------|-------|------------|----|------|------|-------|
| Naphthalene | 9.54 | 9.82E+07 | - | 0.99 | 0.94 | -4.8% |
| 2-Methylnaphthalene | 12.27 | 7.24E+07 | - | 1.01 | 0.98 | -2.7% |
| Acenaphthylene | 15.27 | 5.25E+07 | - | 0.92 | 0.88 | -4.4% |
| Acenaphthene | 15.84 | 3.88E+07 | - | 1.01 | 1.00 | -1.4% |
| Fluorene | 17.45 | 4.54E+07 | - | 1.02 | 0.98 | -3.9% |
| Phenanthrene | 20.22 | 7.83E+07 | - | 1.00 | 0.97 | -2.2% |
| Anthracene | 20.36 | 6.81E+07 | - | 1.23 | 1.21 | -2.1% |
| Fluoranthene | 23.37 | 6.22E+07 | - | 0.92 | 0.89 | -3.4% |
| Pyrene | 23.95 | 6.72E+07 | - | 0.98 | 0.95 | -2.7% |
| Benzo(a)Anthracene | 26.99 | 4.82E+07 | - | 1.00 | 1.00 | -0.6% |
| Chrysene | 27.09 | 6.69E+07 ✓ | - | 1.01 | 0.97 | -4.1% |
| Benzo(b)Fluoranthene | 30.39 | 2.97E+07 | - | 0.98 | 0.95 | -3.3% |
| Benzo(k)Fluoranthene | 30.49 | 4.20E+07 | - | 0.92 | 0.92 | 0.3% |
| Benzo(e)Pyrene | 31.47 | 3.73E+07 | - | 0.98 | 0.95 | -2.9% |
| Benzo(a)Pyrene | 31.69 | 2.95E+07 | - | 0.98 | 1.00 | 2.4% |
| Perylene | 32.04 | 2.91E+07 | - | 1.06 | 1.01 | -4.9% |
| Indeno(1,2,3-cd)Pyrene | 37.48 | 1.86E+07 | - | 0.92 | 0.90 | -1.3% |
| Dibenzo(a,h)Anthracene | 37.67 | 2.15E+07 | - | 0.94 | 0.93 | -0.9% |
| Benzo(ghi)Perylene | 39.19 | 3.08E+07 | - | 0.97 | 0.95 | -2.3% |

HR-PAH QC Summary

SGS North America

Printed: 6-Mar-24 15:58

Lab ID: CS3_240305_PAH_VA
Acquired: 05 Mar 2024 18:23:53
Datafile: 240305V08

MM6_PAH_ICAL_05MAR2024

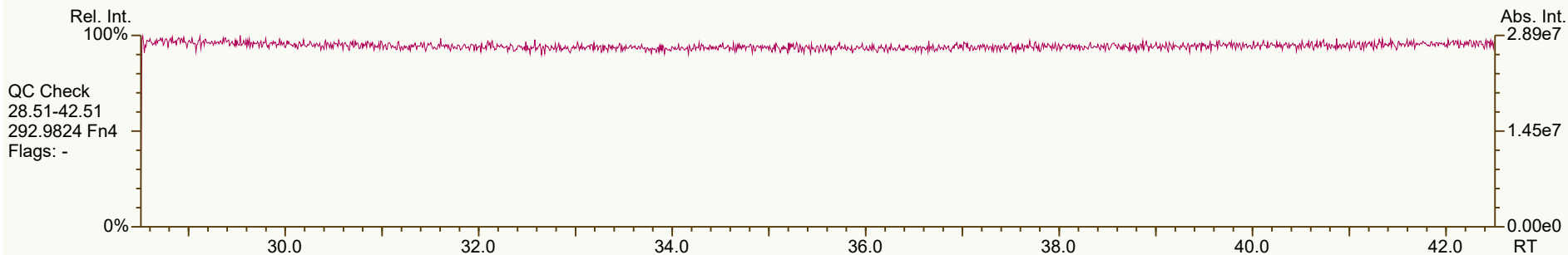
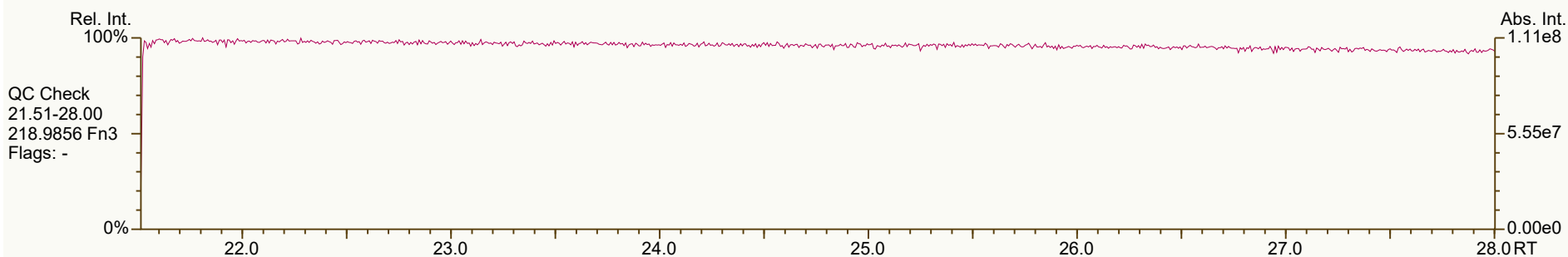
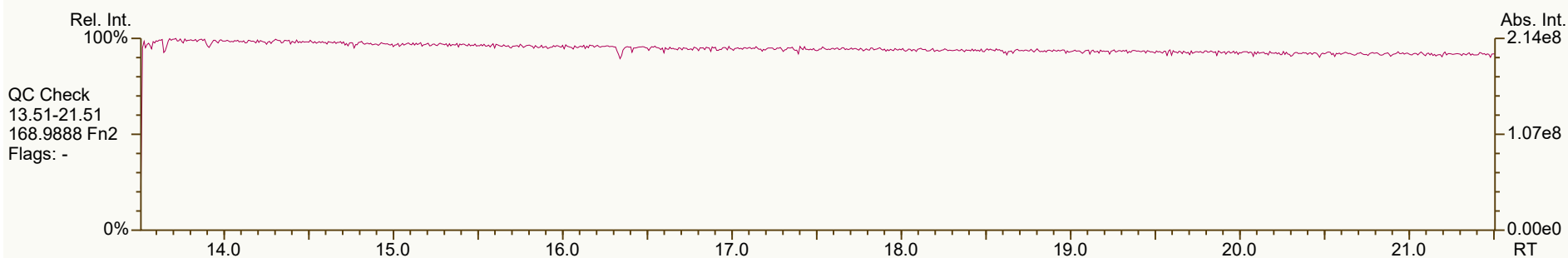
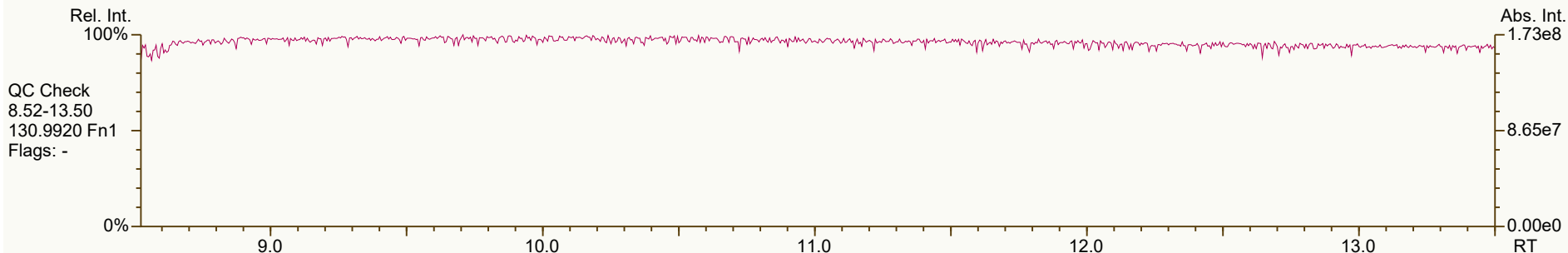
| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-----------------------------|-------|------------|----|------|------|-------|
| 13C6-Naphthalene | 9.53 | 1.04E+08 | - | 1.35 | 1.46 | 8.6% |
| 13C6-2-Methylnaphthalene | 12.26 | 7.38E+07 | - | 0.99 | 1.04 | 5.0% |
| 13C6-Acenaphthylene | 15.27 | 5.95E+07 | - | 1.37 | 1.45 | 6.4% |
| 13C6-Acenaphthene | 15.84 | 3.88E+07 | - | 0.91 | 0.95 | 4.4% |
| 13C6-Fluorene | 17.45 | 4.65E+07 | - | 1.09 | 1.14 | 4.0% |
| 13C6-Phenanthrene | 20.21 | 8.03E+07 | - | 1.91 | 1.96 | 2.8% |
| 13C6-Anthracene | 20.36 | 5.65E+07 | - | 1.35 | 1.38 | 2.5% |
| 13C6-Fluoranthene | 23.37 | 7.03E+07 | - | 1.23 | 1.29 | 5.0% |
| 13C3-Pyrene | 23.95 | 7.05E+07 | - | 1.23 | 1.29 | 4.8% |
| 13C6-Benzo(a)Anthracene | 26.99 | 4.84E+07 | - | 0.86 | 0.89 | 2.7% |
| 13C6-Chrysene | 27.09 | 6.92E+07 ✓ | - | 1.19 | 1.27 | 6.8% |
| 13C6-Benzo(b)Fluoranthene | 30.39 | 3.13E+07 | - | 1.28 | 1.30 | 2.1% |
| 13C6-Benzo(k)Fluoranthene | 30.49 | 4.56E+07 | - | 1.82 | 1.90 | 4.6% |
| 13C4-Benzo(e)Pyrene | 31.47 | 3.94E+07 | - | 1.56 | 1.64 | 5.2% |
| 13C4-Benzo(a)Pyrene | 31.69 | 2.94E+07 | - | 1.23 | 1.22 | -0.2% |
| d12-Perylene | 31.93 | 2.89E+07 | - | 1.13 | 1.21 | 7.2% |
| 13C6-Indeno(1,2,3-cd)Pyrene | 37.47 | 2.06E+07 | - | 0.85 | 0.86 | 0.7% |
| 13C6-Dibenzo(ah)Anthracene | 37.66 | 2.31E+07 | - | 0.94 | 0.96 | 2.5% |
| 13C12-Benzo(ghi)Perylene | 39.18 | 3.25E+07 | - | 1.33 | 1.36 | 2.2% |
| AS--Anthracene | 20.30 | 5.22E+07 | - | 1.17 | 1.28 | 8.8% |
| SS-Fluorene | 17.37 | 5.07E+07 | - | 1.00 | 1.09 | 8.9% |
| SS-Terphenyl | 24.34 | 6.08E+07 | - | 0.79 | 0.87 | 8.9% |
| JS-Methylnaphthalene | 12.14 | 7.10E+07 | - | - | - | - |
| JS-Acenaphthene | 15.73 | 4.09E+07 | - | - | - | - |
| JS-Pyrene | 23.90 | 5.45E+07 | - | - | - | - |
| JS-Benzo(a)Pyrene | 31.58 | 2.40E+07 | - | - | - | - |

973-923-NCF

SGS ID: CS3_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 11

Acq: 05-Mar-2024 18:23:53
User: DTF Datafile: 240305V08



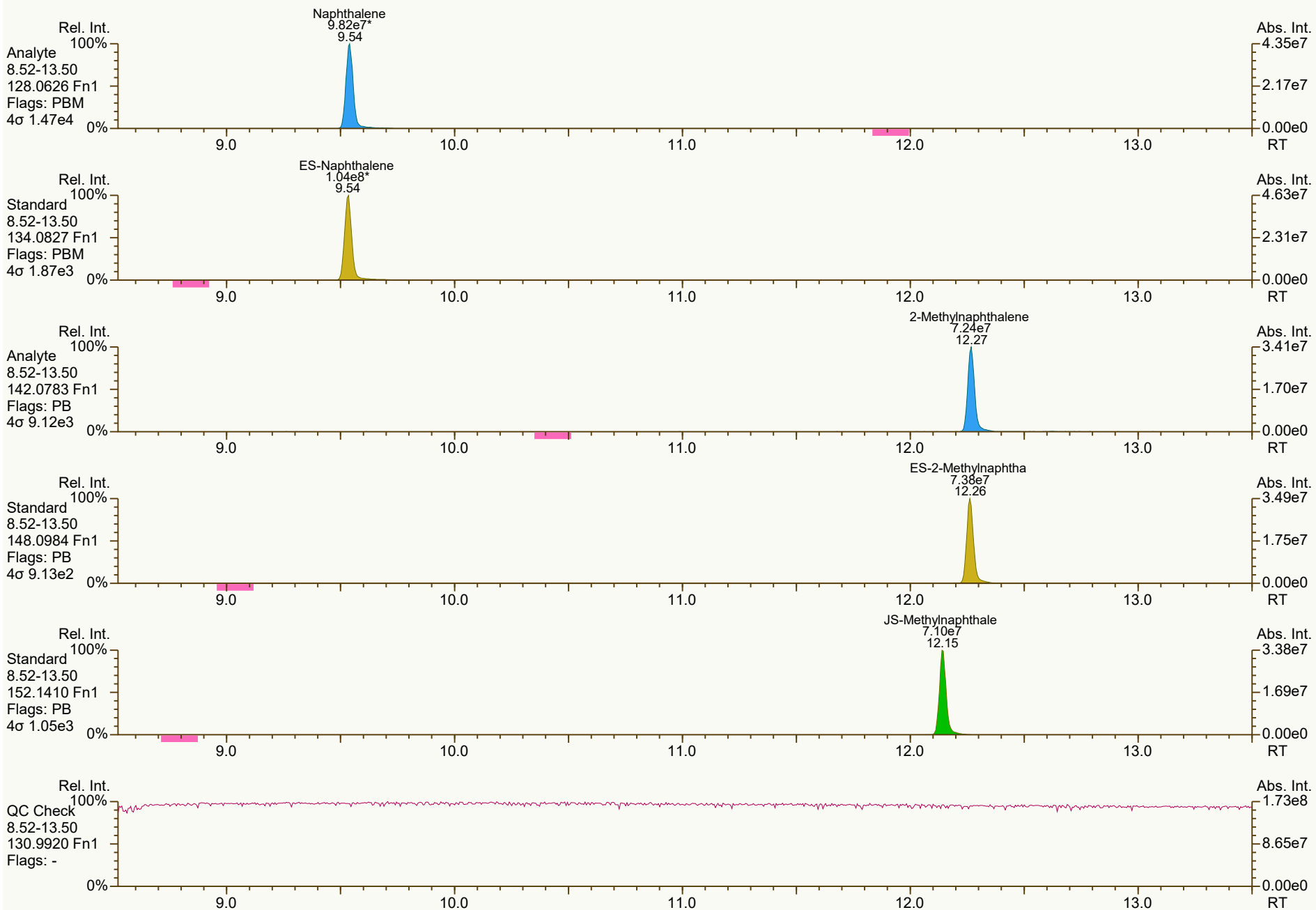
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 973-923

Peak annotation: Areas, Centroids
PKD: n/a Printed: 06-Mar-2024 16:08 Page 1 of 9

SGS ID: CS3_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 11

Acq: 05-Mar-2024 18:23:53
User: DTF Datafile: 240305V08



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS3_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:03 (DTF)

SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1894, 4480, 8743, 3520, 9471 scc: 973-923

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:40 (DTF) Printed: 06-Mar-2024 16:08 Page 2 of 9

SGS ID: CS3_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 11

Acq: 05-Mar-2024 18:23:53
User: DTF Datafile: 240305V08



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS3_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:03 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 3601, 8636, 5153, 0281, 0656 scc: 973-923

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:40 Printed: 06-Mar-2024 16:08 Page 3 of 9

SGS ID: CS3_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 11

Acq: 05-Mar-2024 18:23:53
User: DTF Datafile: 240305V08



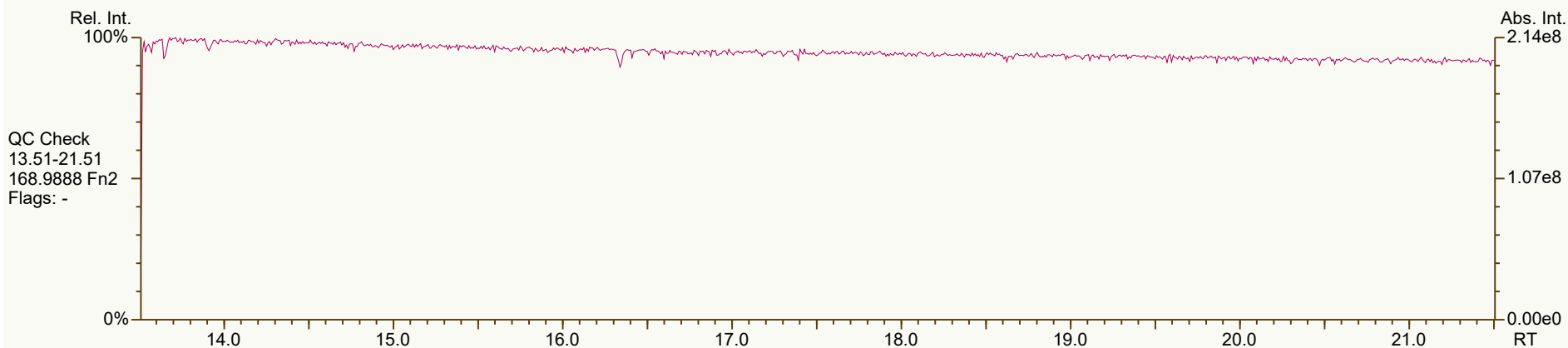
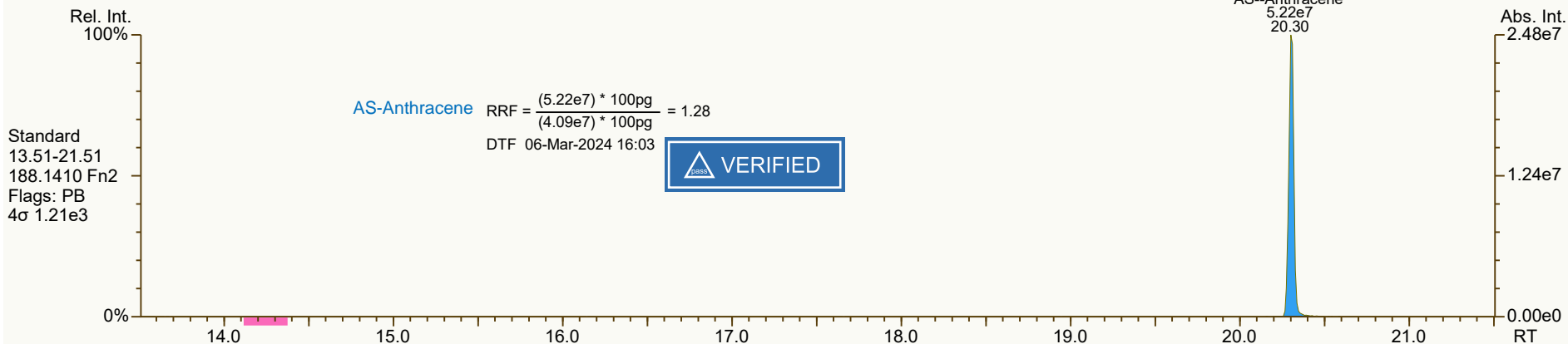
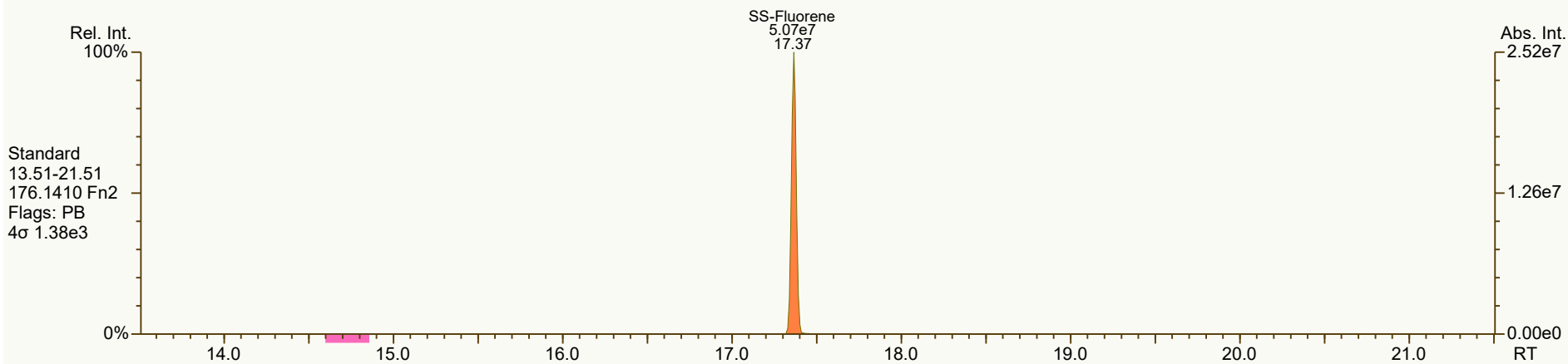
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Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:41 (DTF) Printed: 06-Mar-2024 16:08 Page 4 of 9

SGS ID: CS3_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 11

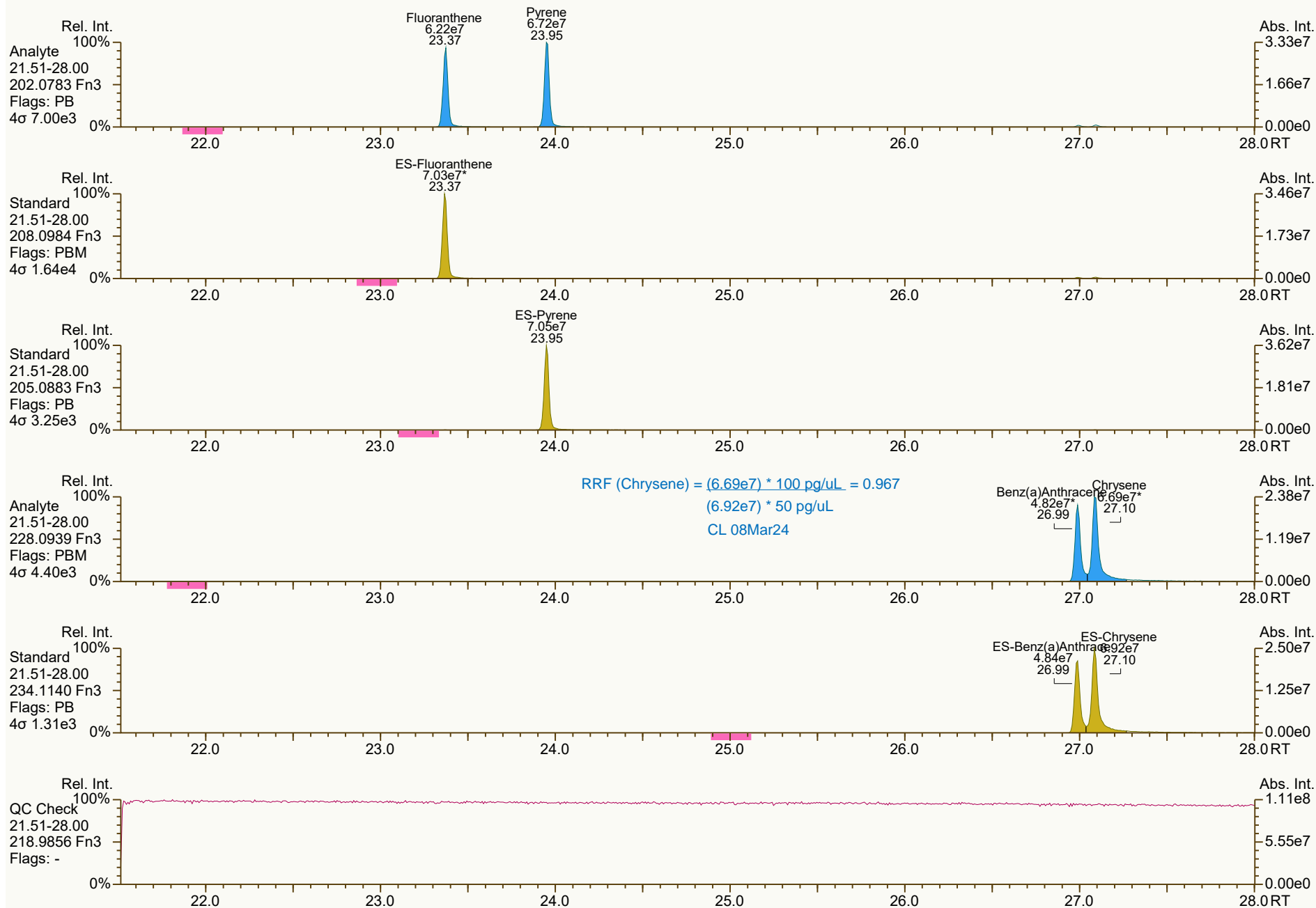
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User: DTF Datafile: 240305V08



SGS ID: CS3_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 11

Acq: 05-Mar-2024 18:23:53
User: DTF Datafile: 240305V08



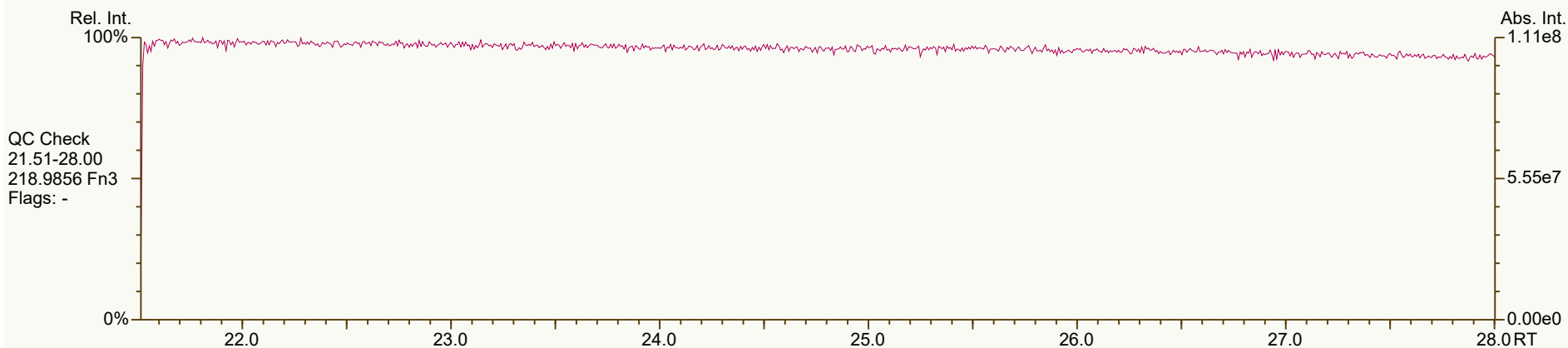
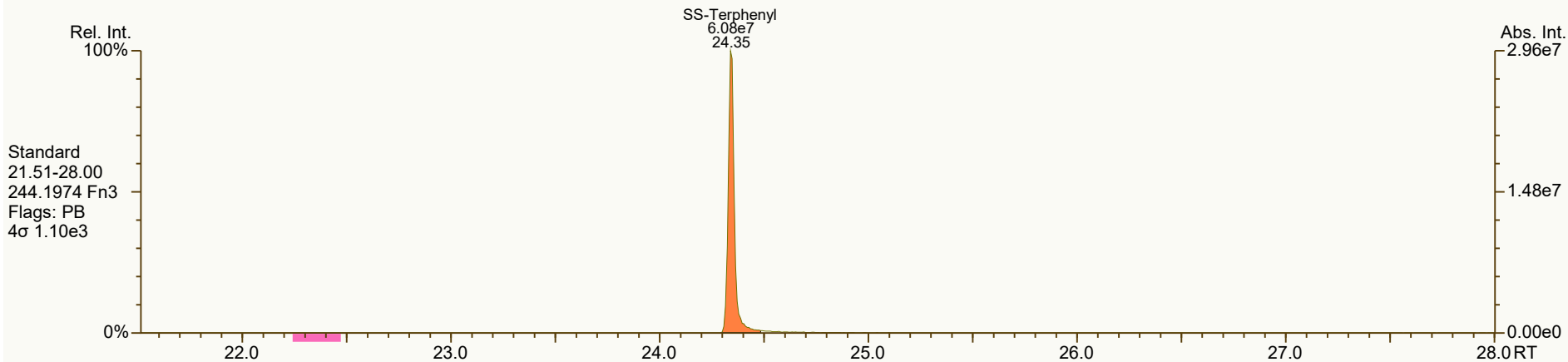
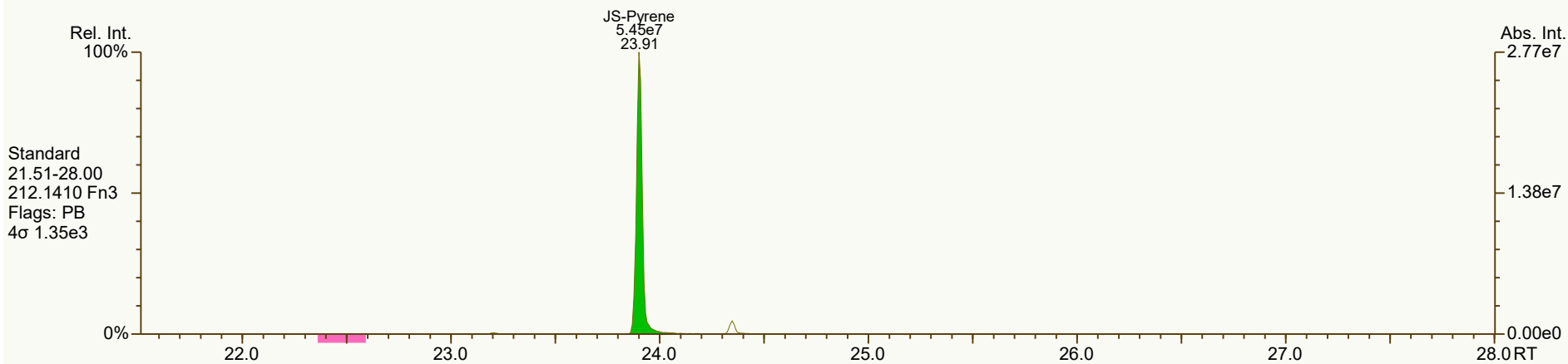
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1616, 0622, 7836, 3637, 5545 scc: 973-923

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:41 (DTF) Printed: 06-Mar-2024 16:08 Page 6 of 9

SGS ID: CS3_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 11

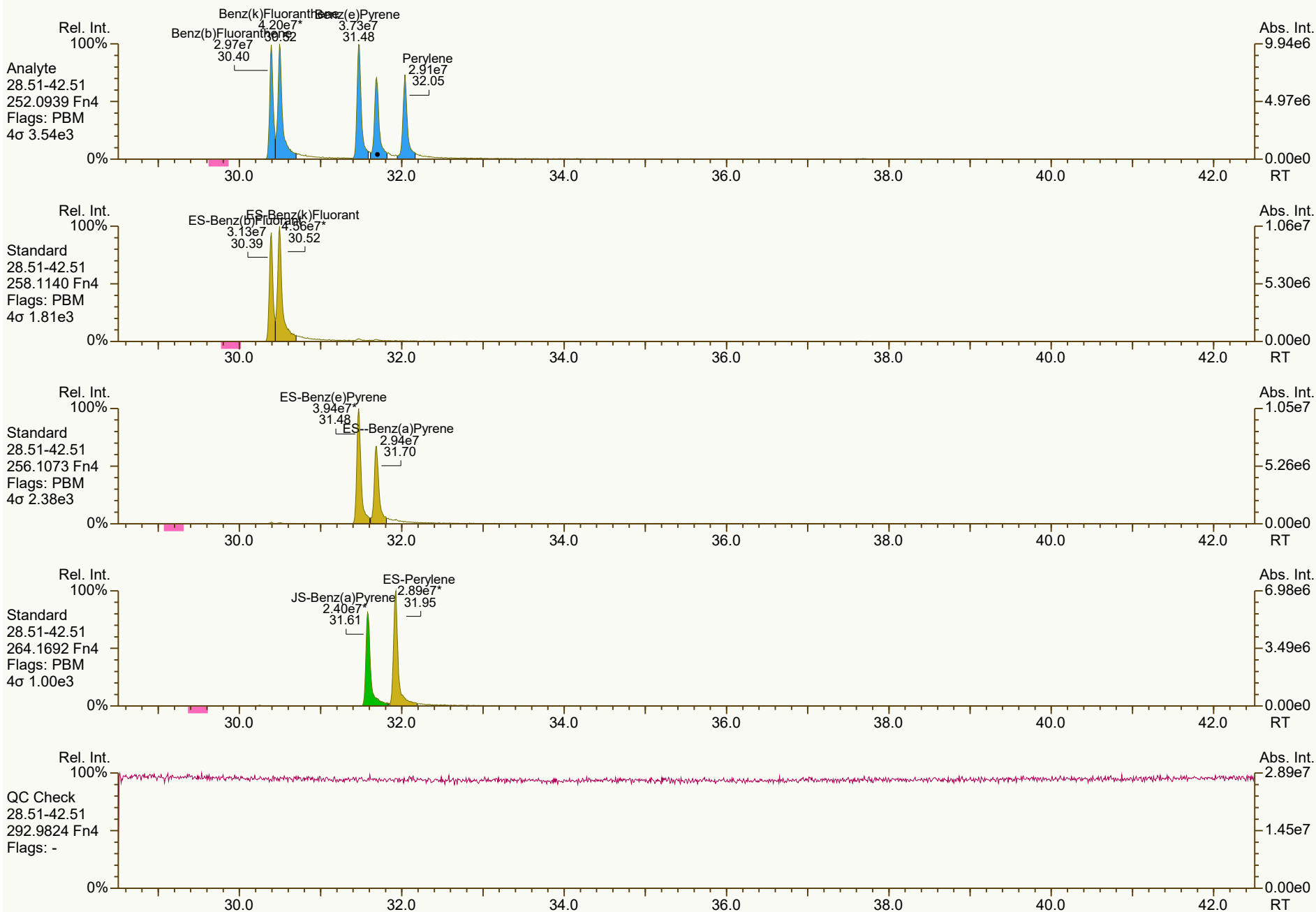
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User: DTF Datafile: 240305V08



SGS ID: CS3_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 11

Acq: 05-Mar-2024 18:23:53
User: DTF Datafile: 240305V08



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS3_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:03 (DTF)

SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1792, 4289, 3890, 3294 scc: 973-923

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:41 (DTF) Printed: 06-Mar-2024 16:08 Page 8 of 9

SGS ID: CS3_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-3
VSIR EI+ Expt: pah GC: pah Vial: 11

Acq: 05-Mar-2024 18:23:53
User: DTF Datafile: 240305V08



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS3_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:03 (DTF)

SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 8792, 9920, 7022, 7813, 5388 scc: 973-923

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:41 (DTF) Printed: 06-Mar-2024 16:08 Page 9 of 9

HR-PAH QC Summary

SGS North America

Printed: 6-Mar-24 15:58

Lab ID: CS4_240305_PAH_VA
Acquired: 05 Mar 2024 19:10:31
Datafile: 240305V09

MM6_PAH_ICAL_05MAR2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|------------------------|-------|----------|----|------|------|-------|
| Naphthalene | 9.54 | 5.77E+08 | - | 0.99 | 1.07 | 8.2% |
| 2-Methylnaphthalene | 12.27 | 4.34E+08 | - | 1.01 | 1.05 | 4.3% |
| Acenaphthylene | 15.28 | 3.48E+08 | - | 0.92 | 1.02 | 10.3% |
| Acenaphthene | 15.84 | 2.45E+08 | - | 1.01 | 1.08 | 6.5% |
| Fluorene | 17.46 | 2.93E+08 | - | 1.02 | 1.10 | 8.3% |
| Phenanthrene | 20.22 | 4.90E+08 | - | 1.00 | 1.06 | 6.3% |
| Anthracene | 20.36 | 4.29E+08 | - | 1.23 | 1.29 | 4.7% |
| Fluoranthene | 23.37 | 3.73E+08 | - | 0.92 | 0.97 | 6.2% |
| Pyrene | 23.96 | 3.92E+08 | - | 0.98 | 1.01 | 3.3% |
| Benzo(a)Anthracene | 27.00 | 3.06E+08 | - | 1.00 | 1.07 | 6.4% |
| Chrysene | 27.09 | 4.13E+08 | - | 1.01 | 1.07 | 6.5% |
| Benzo(b)Fluoranthene | 30.40 | 1.97E+08 | - | 0.98 | 1.02 | 3.9% |
| Benzo(k)Fluoranthene | 30.50 | 2.65E+08 | - | 0.92 | 1.00 | 8.4% |
| Benzo(e)Pyrene | 31.48 | 2.30E+08 | - | 0.98 | 1.03 | 5.5% |
| Benzo(a)Pyrene | 31.69 | 1.91E+08 | - | 0.98 | 1.10 | 12.4% |
| Perylene | 32.05 | 1.90E+08 | - | 1.06 | 1.16 | 9.7% |
| Indeno(1,2,3-cd)Pyrene | 37.49 | 1.27E+08 | - | 0.92 | 0.98 | 7.3% |
| Dibenzo(a,h)Anthracene | 37.69 | 1.48E+08 | - | 0.94 | 0.99 | 6.0% |
| Benzo(ghi)Perylene | 39.21 | 2.13E+08 | - | 0.97 | 1.05 | 8.5% |

HR-PAH QC Summary

SGS North America

Printed: 6-Mar-24 15:58

Lab ID: CS4_240305_PAH_VA
Acquired: 05 Mar 2024 19:10:31
Datafile: 240305V09

MM6_PAH_ICAL_05MAR2024

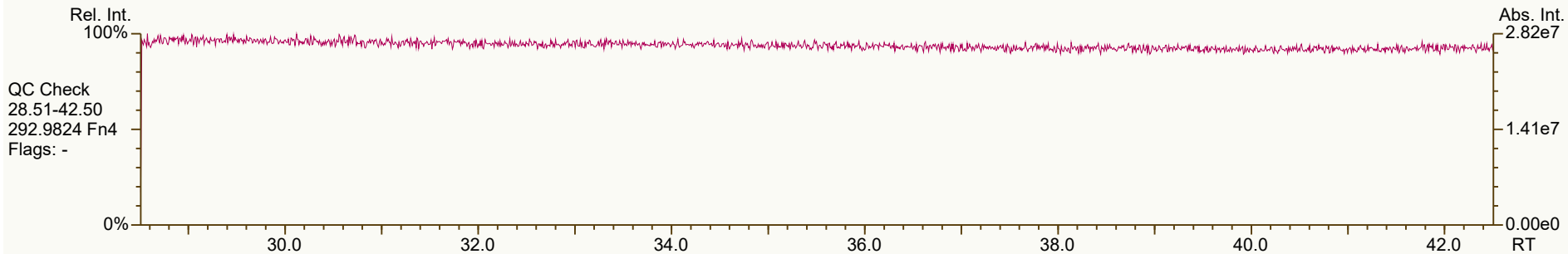
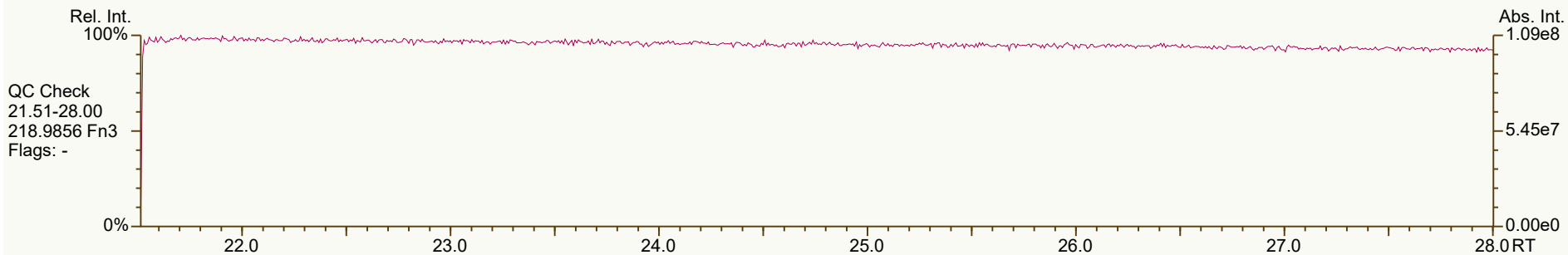
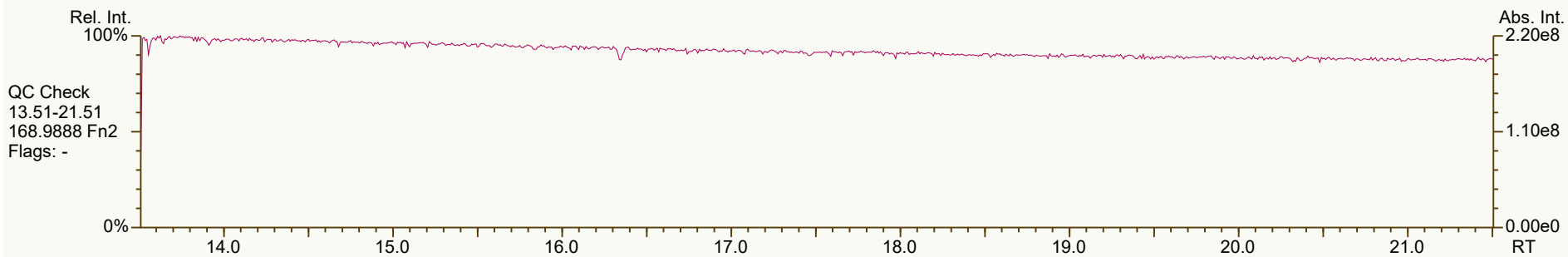
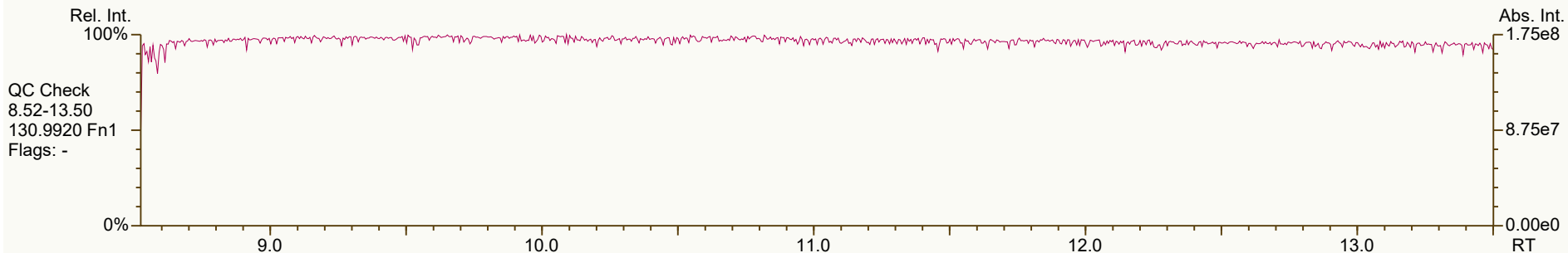
| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-----------------------------|-------|----------|----|------|------|-------|
| 13C6-Naphthalene | 9.53 | 1.08E+08 | - | 1.35 | 1.30 | -3.6% |
| 13C6-2-Methylnaphthalene | 12.27 | 8.26E+07 | - | 0.99 | 1.00 | 0.8% |
| 13C6-Acenaphthylene | 15.27 | 6.83E+07 | - | 1.37 | 1.38 | 1.0% |
| 13C6-Acenaphthene | 15.84 | 4.54E+07 | - | 0.91 | 0.92 | 0.9% |
| 13C6-Fluorene | 17.45 | 5.33E+07 | - | 1.09 | 1.08 | -1.5% |
| 13C6-Phenanthrene | 20.22 | 9.25E+07 | - | 1.91 | 1.87 | -2.1% |
| 13C6-Anthracene | 20.36 | 6.66E+07 | - | 1.35 | 1.35 | -0.1% |
| 13C6-Fluoranthene | 23.37 | 7.66E+07 | - | 1.23 | 1.22 | -0.3% |
| 13C3-Pyrene | 23.96 | 7.74E+07 | - | 1.23 | 1.24 | 0.2% |
| 13C6-Benzo(a)Anthracene | 26.99 | 5.73E+07 | - | 0.86 | 0.92 | 5.9% |
| 13C6-Chrysene | 27.09 | 7.69E+07 | - | 1.19 | 1.23 | 3.3% |
| 13C6-Benzo(b)Fluoranthene | 30.40 | 3.85E+07 | - | 1.28 | 1.31 | 2.4% |
| 13C6-Benzo(k)Fluoranthene | 30.50 | 5.33E+07 | - | 1.82 | 1.81 | -0.5% |
| 13C4-Benzo(e)Pyrene | 31.48 | 4.47E+07 | - | 1.56 | 1.52 | -2.7% |
| 13C4-Benzo(a)Pyrene | 31.69 | 3.47E+07 | - | 1.23 | 1.18 | -4.0% |
| d12-Perylene | 31.93 | 3.27E+07 | - | 1.13 | 1.11 | -1.3% |
| 13C6-Indeno(1,2,3-cd)Pyrene | 37.48 | 2.59E+07 | - | 0.85 | 0.88 | 3.3% |
| 13C6-Dibenzo(ah)Anthracene | 37.68 | 2.99E+07 | - | 0.94 | 1.01 | 7.8% |
| 13C12-Benzo(ghi)Perylene | 39.21 | 4.04E+07 | - | 1.33 | 1.37 | 3.3% |
| AS--Anthracene | 20.30 | 5.33E+07 | - | 1.17 | 1.08 | -8.2% |
| SS-Fluorene | 17.37 | 5.14E+07 | - | 1.00 | 0.96 | -3.7% |
| SS-Terphenyl | 24.35 | 5.78E+07 | - | 0.79 | 0.75 | -5.0% |
| JS-Methylnaphthalene | 12.15 | 8.28E+07 | - | - | - | - |
| JS-Acenaphthene | 15.73 | 4.95E+07 | - | - | - | - |
| JS-Pyrene | 23.91 | 6.26E+07 | - | - | - | - |
| JS-Benzo(a)Pyrene | 31.59 | 2.95E+07 | - | - | - | - |

696-498-NZM

SGS ID: CS4_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-2
VSIR EI+ Expt: pah GC: pah Vial: 12

Acq: 05-Mar-2024 19:10:31
User: DTF Datafile: 240305V09



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS4_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:04 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 696-498

Peak annotation: Areas, Centroids
PKD: n/a Printed: 06-Mar-2024 16:08 Page 1 of 9

SGS ID: CS4_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-2
VSIR EI+ Expt: pah GC: pah Vial: 12

Acq: 05-Mar-2024 19:10:31
User: DTF Datafile: 240305V09



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS4_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:04 (DTF)

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Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:42 (DTF) Printed: 06-Mar-2024 16:08 Page 2 of 9

SGS ID: CS4_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-2
VSIR EI+ Expt: pah GC: pah Vial: 12

Acq: 05-Mar-2024 19:10:31
User: DTF Datafile: 240305V09



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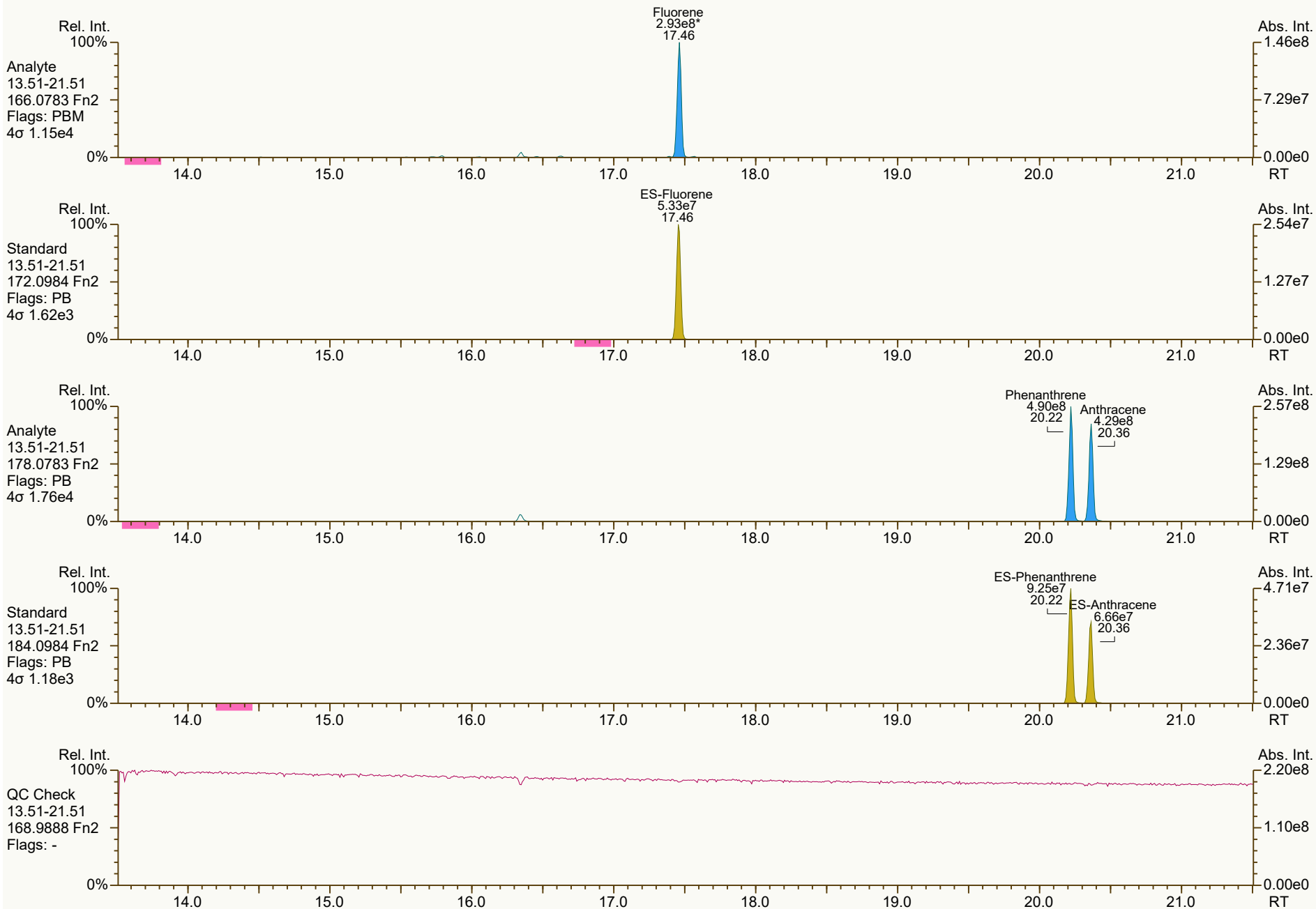
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Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:42 (DTF) Printed: 06-Mar-2024 16:08 Page 3 of 9

SGS ID: CS4_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-2
VSIR EI+ Expt: pah GC: pah Vial: 12

Acq: 05-Mar-2024 19:10:31
User: DTF Datafile: 240305V09



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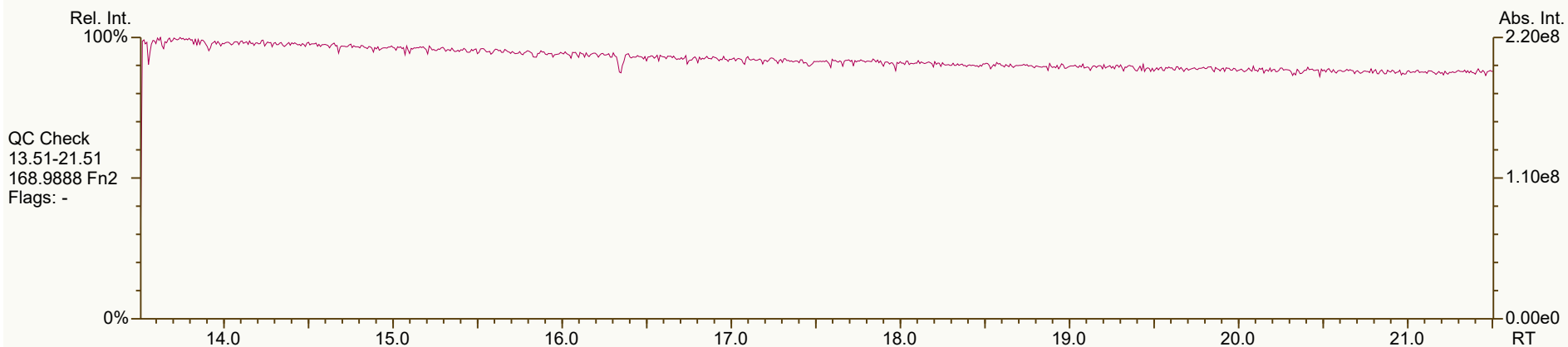
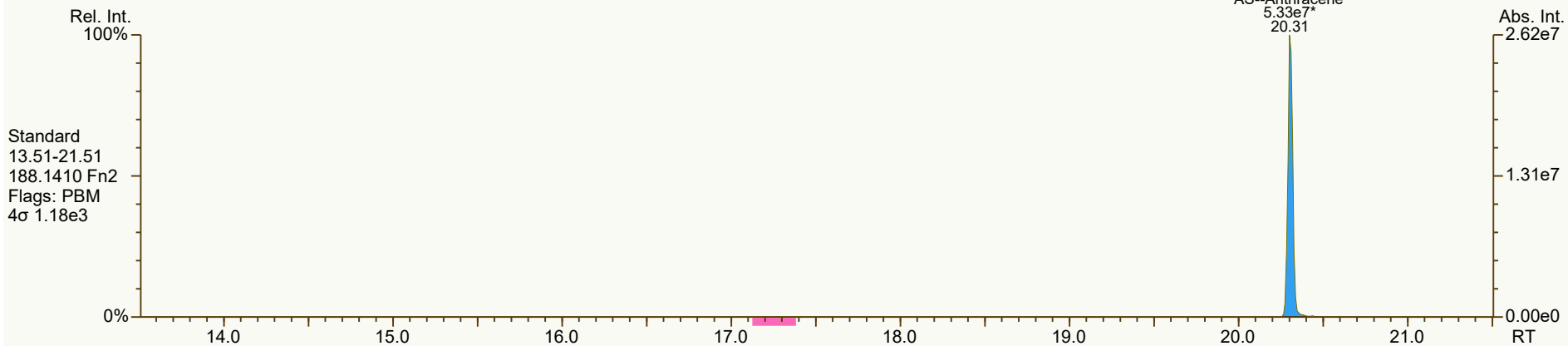
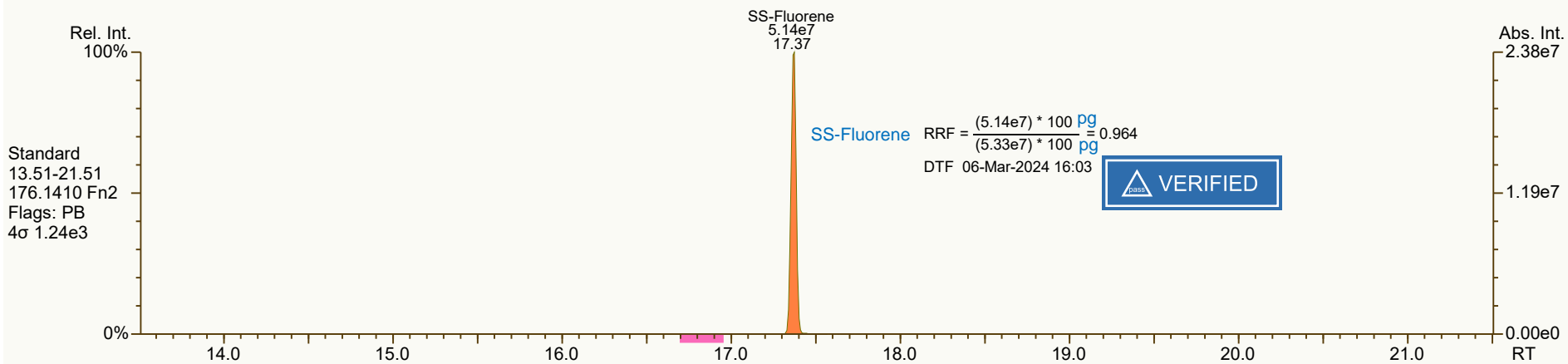
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Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:42 (DTF) Printed: 06-Mar-2024 16:08 Page 4 of 9

SGS ID: CS4_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-2
VSIR EI+ Expt: pah GC: pah Vial: 12

Acq: 05-Mar-2024 19:10:31
User: DTF Datafile: 240305V09



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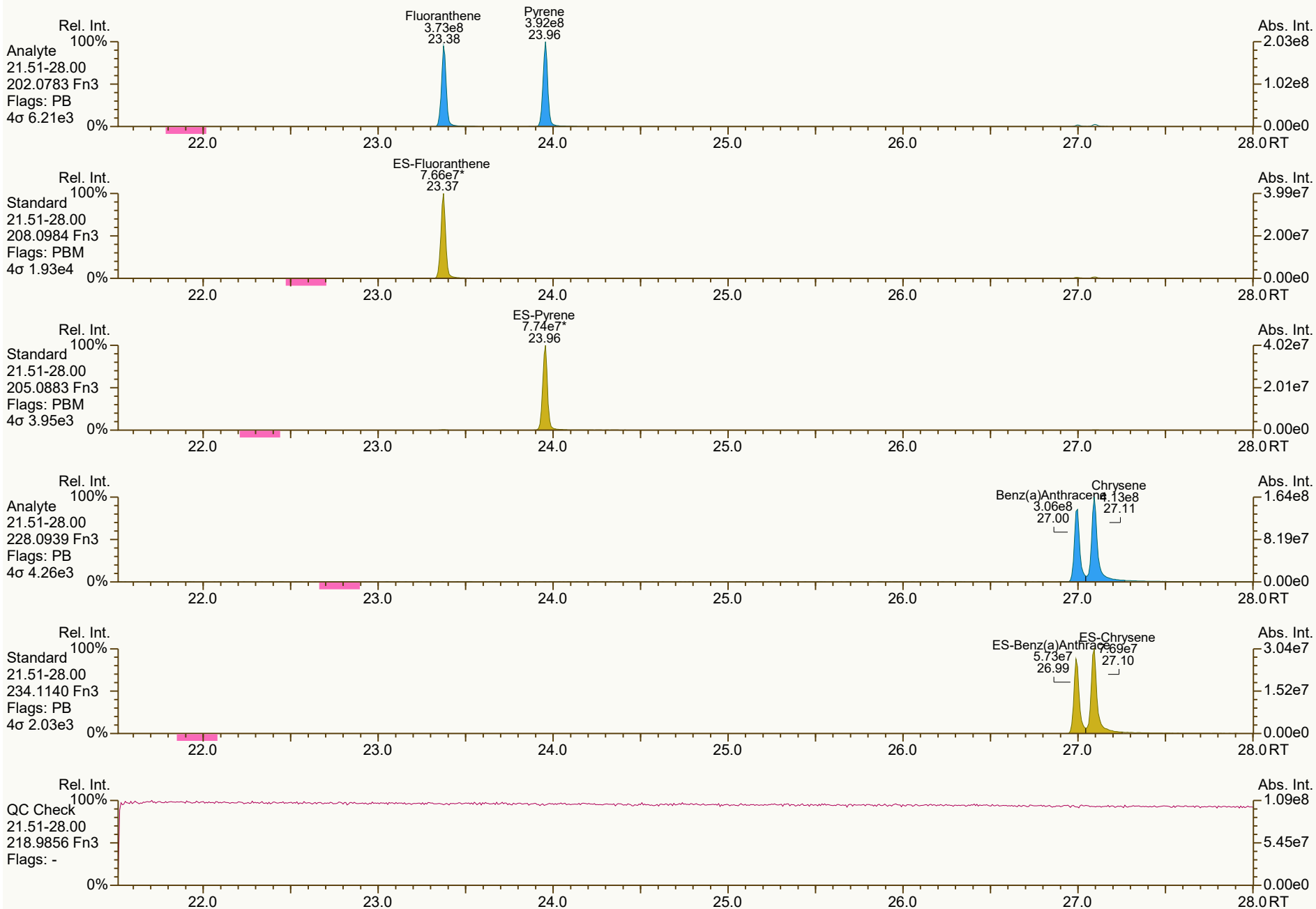
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Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:42 (DTF) Printed: 06-Mar-2024 16:08 Page 5 of 9

SGS ID: CS4_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-2
VSIR EI+ Expt: pah GC: pah Vial: 12

Acq: 05-Mar-2024 19:10:31
User: DTF Datafile: 240305V09



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS4_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:04 (DTF)

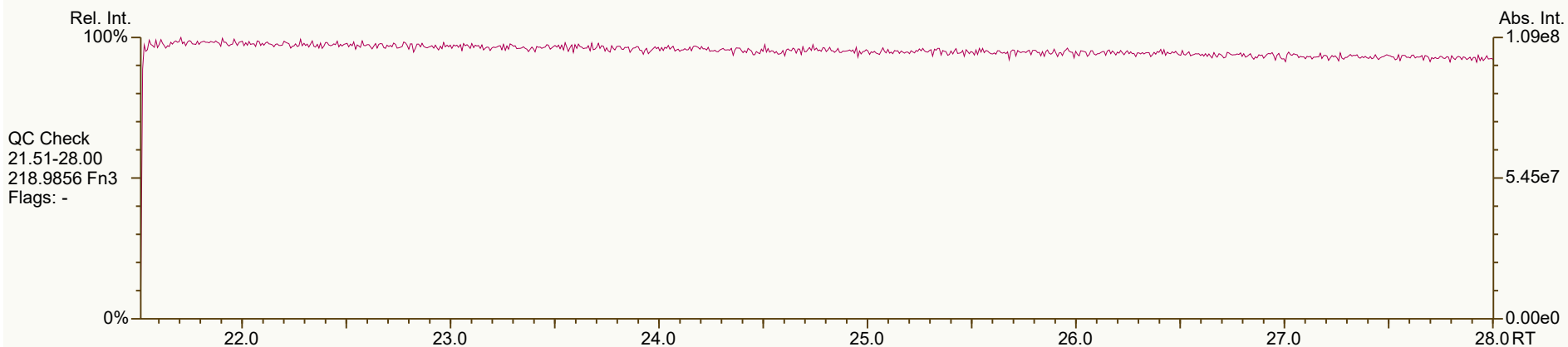
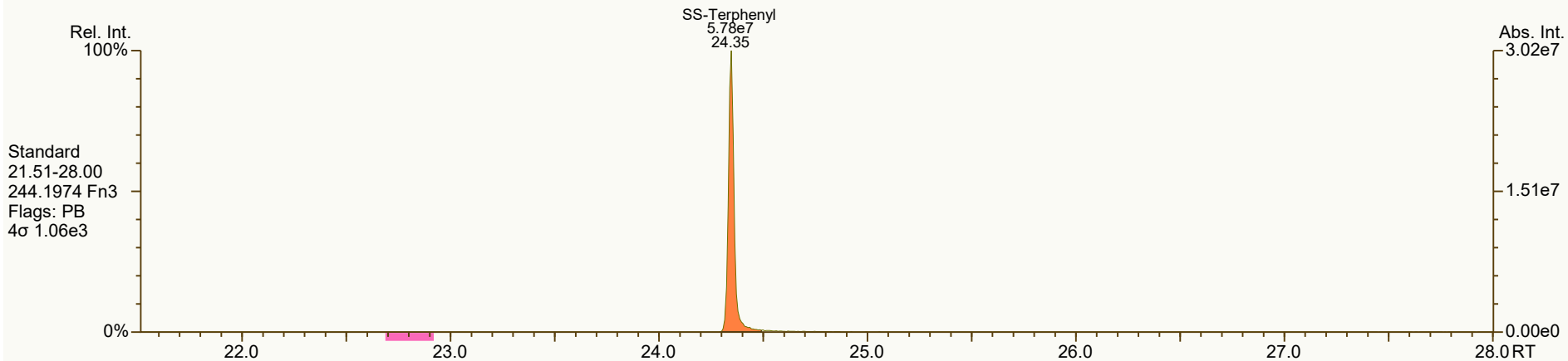
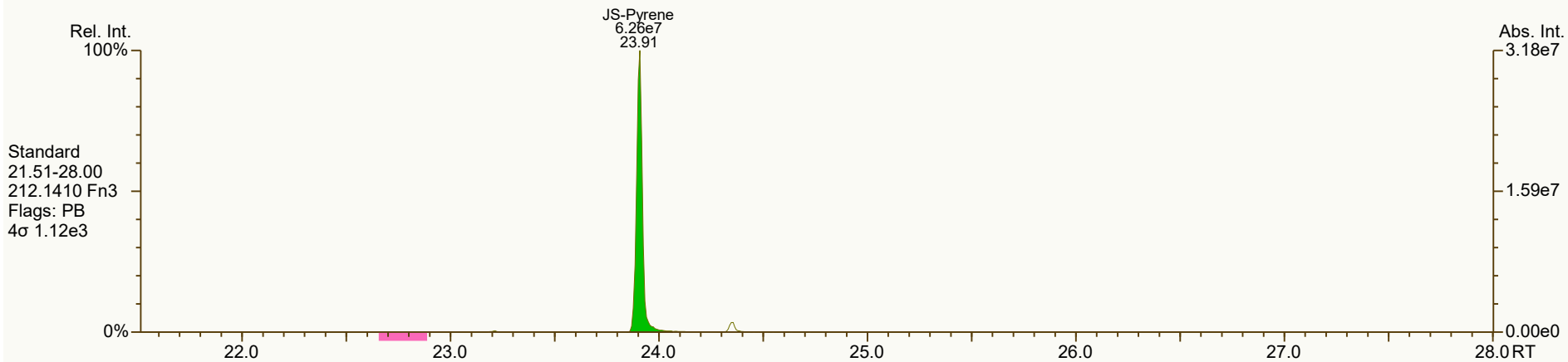
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 7273, 2249, 6674, 7802, 0210 scc: 696-498

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:41 (DTF) Printed: 06-Mar-2024 16:08 Page 6 of 9

SGS ID: CS4_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-2
VSIR EI+ Expt: pah GC: pah Vial: 12

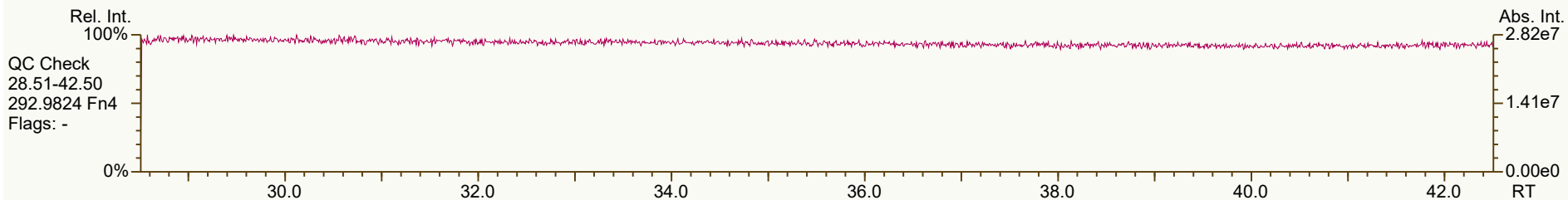
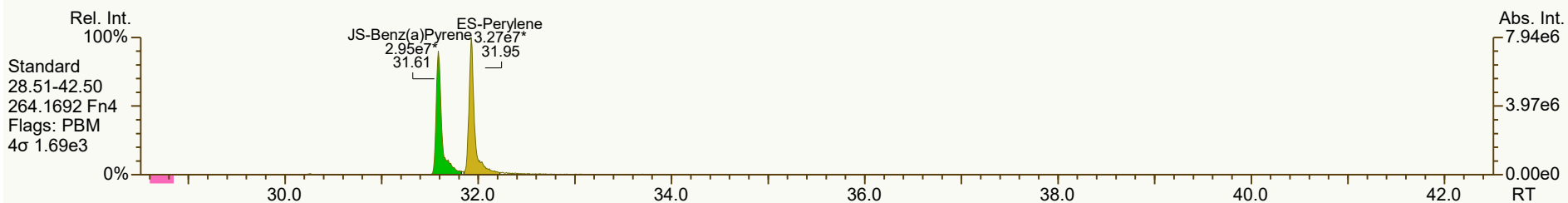
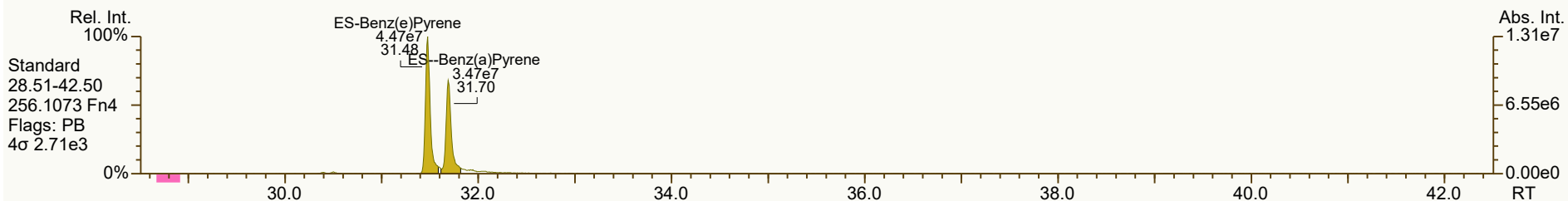
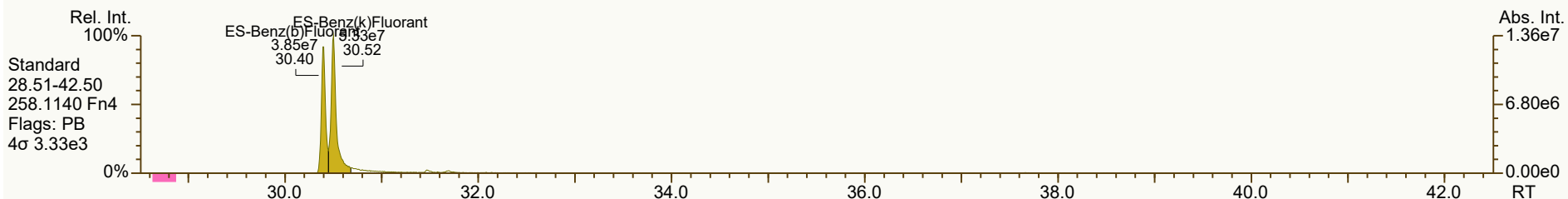
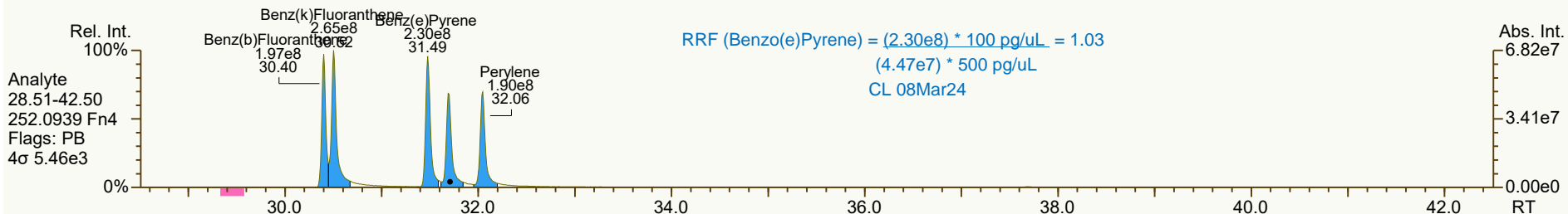
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User: DTF Datafile: 240305V09



SGS ID: CS4_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-2
VSIR EI+ Expt: pah GC: pah Vial: 12

Acq: 05-Mar-2024 19:10:31
User: DTF Datafile: 240305V09



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS4_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:04 (DTF)

SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 3803, 3678, 1702, 2022 scc: 696-498

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:41 (DTF) Printed: 06-Mar-2024 16:08 Page 8 of 9

SGS ID: CS4_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-2
VSIR EI+ Expt: pah GC: pah Vial: 12

Acq: 05-Mar-2024 19:10:31
User: DTF Datafile: 240305V09



MM6 PAH ICAL 05MAR2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|------------------------|-------|----------|----|------|------|-------|
| Naphthalene | 9.54 | 1.21E+09 | - | 0.99 | 1.05 | 5.9% |
| 2-Methylnaphthalene | 12.27 | 9.26E+08 | - | 1.01 | 1.05 | 4.2% |
| Acenaphthylene | 15.27 | 7.83E+08 | - | 0.92 | 1.06 | 14.4% |
| Acenaphthene | 15.84 | 5.29E+08 | - | 1.01 | 1.06 | 4.4% |
| Fluorene | 17.46 | 6.44E+08 | - | 1.02 | 1.07 | 5.6% |
| Phenanthrene | 20.22 | 1.11E+09 | - | 1.00 | 1.02 | 2.0% |
| Anthracene | 20.36 | 9.92E+08 | - | 1.23 | 1.30 | 5.5% |
| Fluoranthene | 23.37 | 8.93E+08 | - | 0.92 | 0.94 | 2.5% |
| Pyrene | 23.96 | 9.70E+08 | - | 0.98 | 0.99 | 1.4% |
| Benzo(a)Anthracene | 26.99 | 7.83E+08 | - | 1.00 | 1.06 | 6.2% |
| Chrysene | 27.08 | 1.01E+09 | - | 1.01 | 1.07 | 5.8% |
| Benzo(b)Fluoranthene | 30.39 | 5.04E+08 | - | 0.98 | 0.99 | 1.1% |
| Benzo(k)Fluoranthene | 30.50 | 6.99E+08 | - | 0.92 | 1.03 | 11.7% |
| Benzo(e)Pyrene | 31.48 | 5.85E+08 | - | 0.98 | 1.02 | 4.8% |
| Benzo(a)Pyrene | 31.69 | 4.94E+08 | - | 0.98 | 1.06 | 8.2% |
| Perylene | 32.04 | 5.02E+08 | - | 1.06 | 1.18 | 11.6% |
| Indeno(1,2,3-cd)Pyrene | 37.49 | 3.61E+08 | - | 0.92 | 0.96 | 5.2% |
| Dibenzo(a,h)Anthracene | 37.68 | 4.35E+08 | - | 0.94 | 0.98 | 4.5% |
| Benzo(ghi)Perylene | 39.20 | 5.55E+08 | - | 0.97 | 1.03 | 6.4% |

HR-PAH QC Summary

SGS North America

Printed: 6-Mar-24 15:58

Lab ID: CS5_240305_PAH_VA
Acquired: 05 Mar 2024 19:57:08
Datafile: 240305V10

MM6_PAH_ICAL_05MAR2024

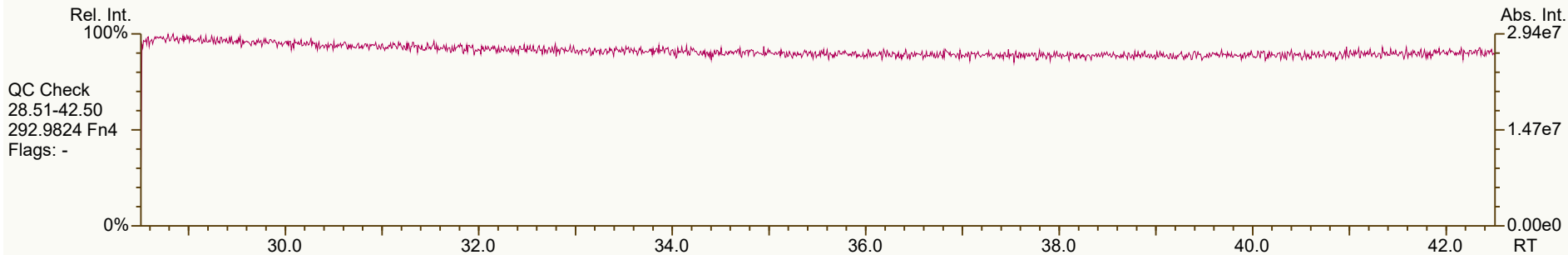
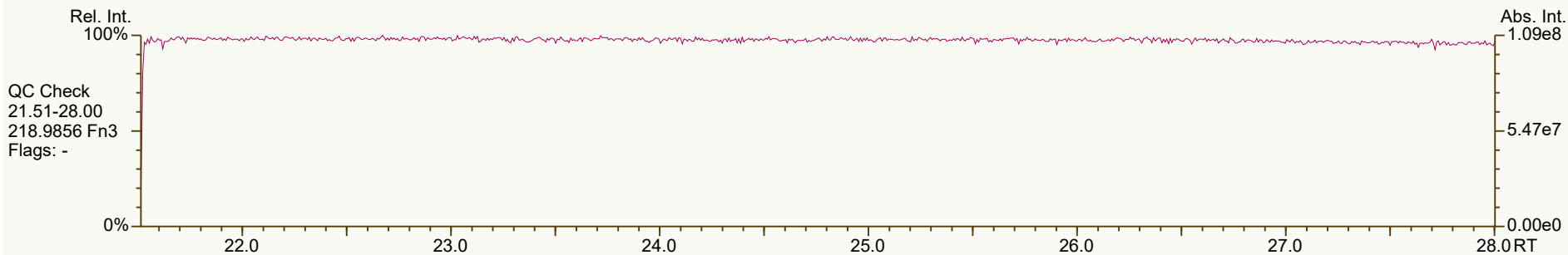
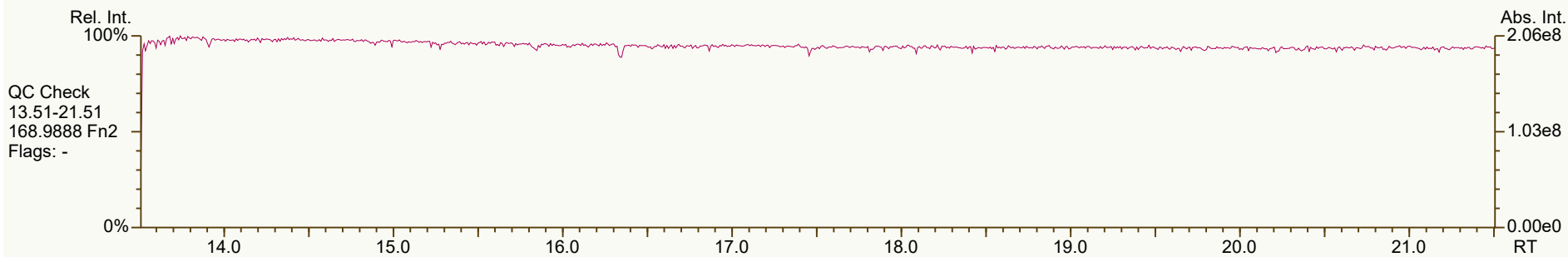
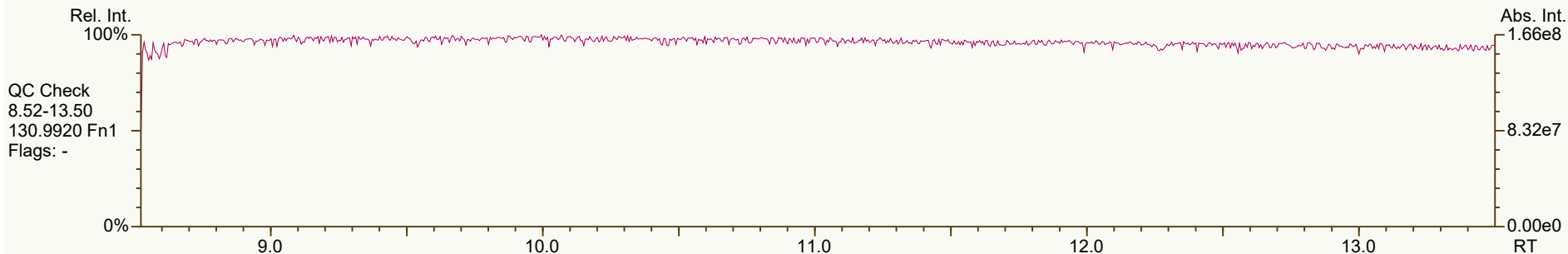
| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-----------------------------|-------|----------|----|------|------|-------|
| 13C6-Naphthalene | 9.53 | 1.15E+08 | - | 1.35 | 1.29 | -3.9% |
| 13C6-2-Methylnaphthalene | 12.26 | 8.81E+07 | - | 0.99 | 0.99 | -0.2% |
| 13C6-Acenaphthylene | 15.27 | 7.41E+07 | - | 1.37 | 1.37 | 0.1% |
| 13C6-Acenaphthene | 15.84 | 5.00E+07 | - | 0.91 | 0.92 | 1.4% |
| 13C6-Fluorene | 17.45 | 5.99E+07 | - | 1.09 | 1.10 | 1.1% |
| 13C6-Phenanthrene | 20.22 | 1.09E+08 | - | 1.91 | 2.01 | 5.2% |
| 13C6-Anthracene | 20.36 | 7.63E+07 | - | 1.35 | 1.41 | 4.6% |
| 13C6-Fluoranthene | 23.37 | 9.52E+07 | - | 1.23 | 1.23 | -0.2% |
| 13C3-Pyrene | 23.95 | 9.75E+07 | - | 1.23 | 1.26 | 1.8% |
| 13C6-Benzo(a)Anthracene | 26.99 | 7.36E+07 | - | 0.86 | 0.95 | 9.7% |
| 13C6-Chrysene | 27.08 | 9.49E+07 | - | 1.19 | 1.22 | 2.8% |
| 13C6-Benzo(b)Fluoranthene | 30.39 | 5.07E+07 | - | 1.28 | 1.29 | 1.1% |
| 13C6-Benzo(k)Fluoranthene | 30.49 | 6.82E+07 | - | 1.82 | 1.74 | -4.6% |
| 13C4-Benzo(e)Pyrene | 31.47 | 5.72E+07 | - | 1.56 | 1.45 | -6.8% |
| 13C4-Benzo(a)Pyrene | 31.69 | 4.65E+07 | - | 1.23 | 1.18 | -3.6% |
| d12-Perylene | 31.92 | 4.25E+07 | - | 1.13 | 1.08 | -4.0% |
| 13C6-Indeno(1,2,3-cd)Pyrene | 37.48 | 3.74E+07 | - | 0.85 | 0.95 | 11.8% |
| 13C6-Dibenzo(ah)Anthracene | 37.68 | 4.44E+07 | - | 0.94 | 1.13 | 20.2% |
| 13C12-Benzo(ghi)Perylene | 39.19 | 5.38E+07 | - | 1.33 | 1.37 | 3.2% |
| AS--Anthracene | 20.30 | 6.43E+07 | - | 1.17 | 1.19 | 1.2% |
| SS-Fluorene | 17.37 | 5.89E+07 | - | 1.00 | 0.98 | -2.0% |
| SS-Terphenyl | 24.34 | 7.29E+07 | - | 0.79 | 0.77 | -3.6% |
| JS-Methylnaphthalene | 12.15 | 8.92E+07 | - | - | - | - |
| JS-Acenaphthene | 15.73 | 5.42E+07 | - | - | - | - |
| JS-Pyrene | 23.90 | 7.77E+07 | - | - | - | - |
| JS-Benzo(a)Pyrene | 31.58 | 3.93E+07 | - | - | - | - |

225-555-SCQ

SGS ID: CS5_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-1
VSIR EI+ Expt: pah GC: pah Vial: 13

Acq: 05-Mar-2024 19:57:08
User: DTF Datafile: 240305V10



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS5_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:06 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 225-555

Peak annotation: Areas, Centroids
PKD: n/a Printed: 06-Mar-2024 16:08 Page 1 of 9

SGS ID: CS5_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-1
VSIR EI+ Expt: pah GC: pah Vial: 13

Acq: 05-Mar-2024 19:57:08
User: DTF Datafile: 240305V10



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS5_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:06 (DTF)

SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 3875, 8215, 2854, 1831, 1600 scc: 225-555

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:43 (DTF) Printed: 06-Mar-2024 16:08 Page 2 of 9

SGS ID: CS5_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-1
VSIR EI+ Expt: pah GC: pah Vial: 13

Acq: 05-Mar-2024 19:57:08
User: DTF Datafile: 240305V10



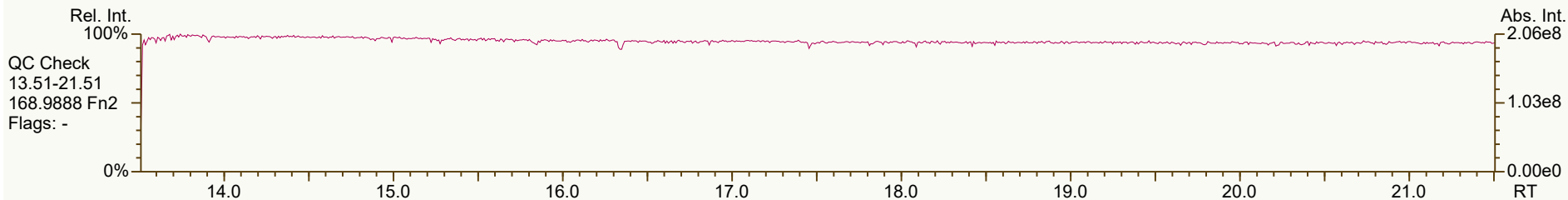
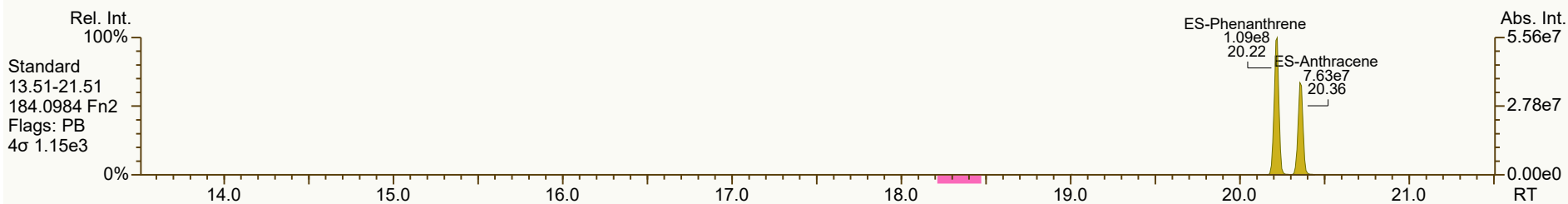
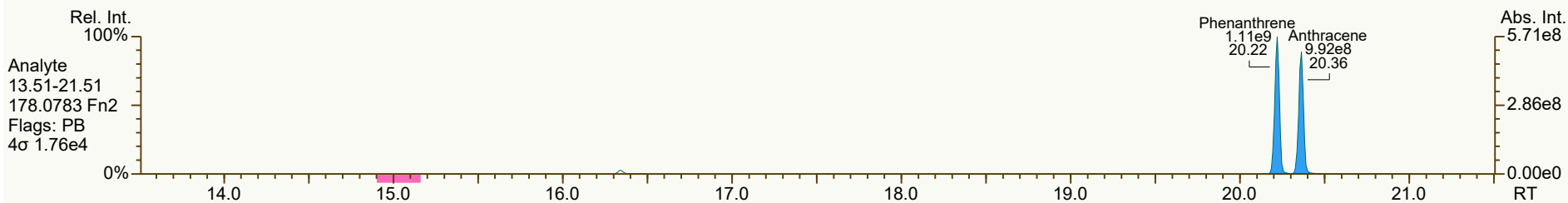
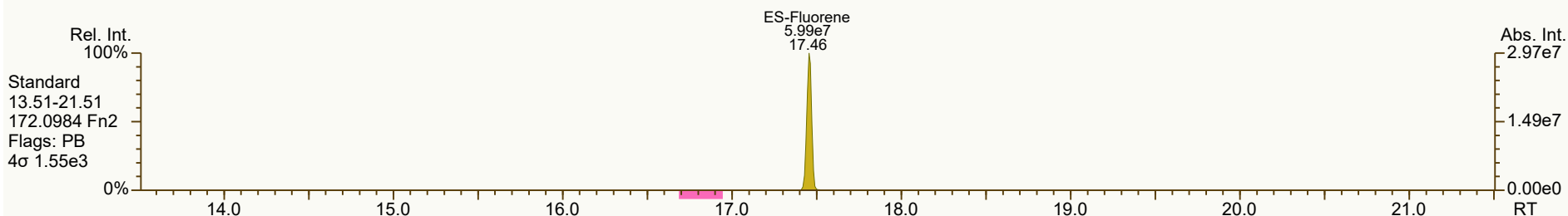
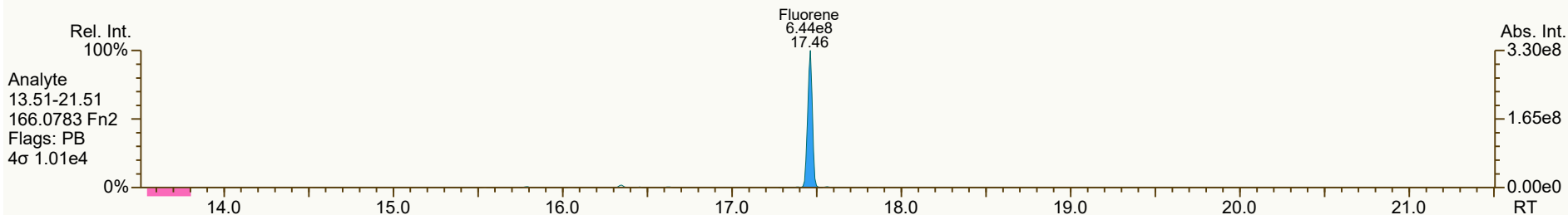
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Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:43 Printed: 06-Mar-2024 16:08 Page 3 of 9

SGS ID: CS5_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-1
VSIR EI+ Expt: pah GC: pah Vial: 13

Acq: 05-Mar-2024 19:57:08
User: DTF Datafile: 240305V10



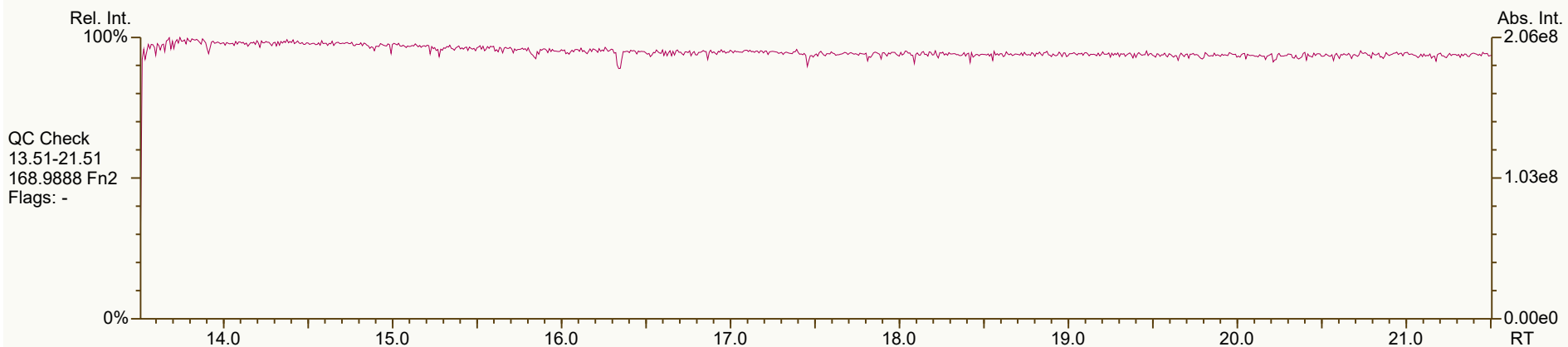
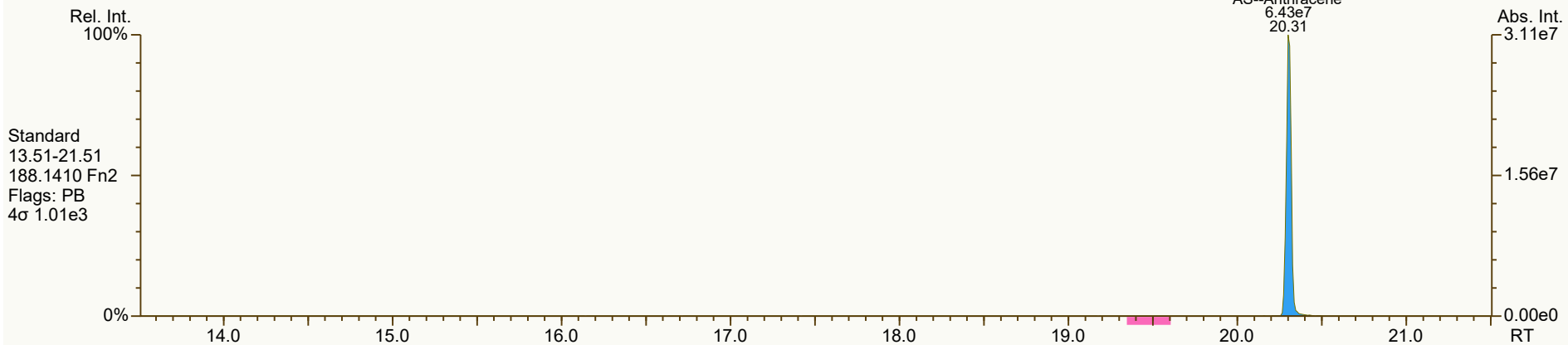
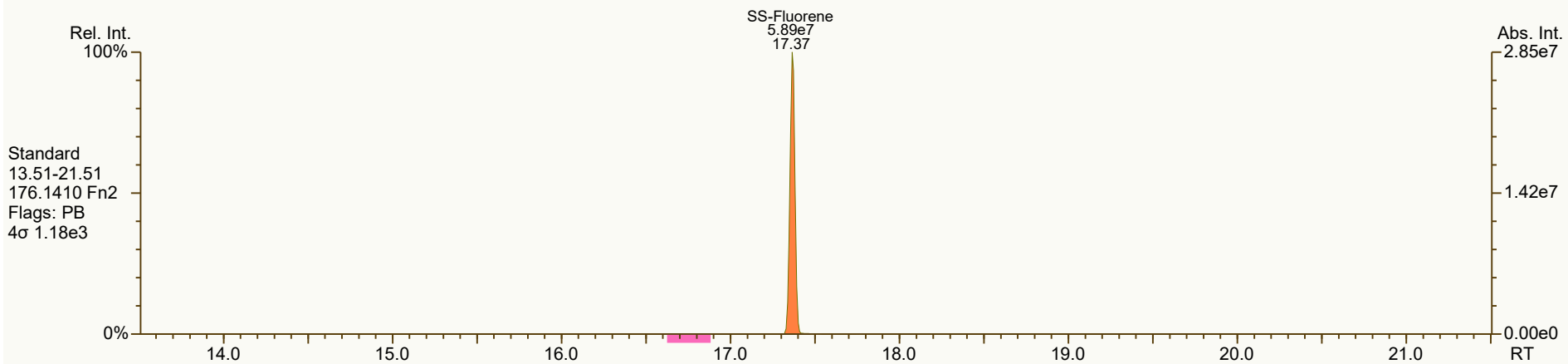
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Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:43 Printed: 06-Mar-2024 16:08 Page 4 of 9

SGS ID: CS5_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-1
VSIR EI+ Expt: pah GC: pah Vial: 13

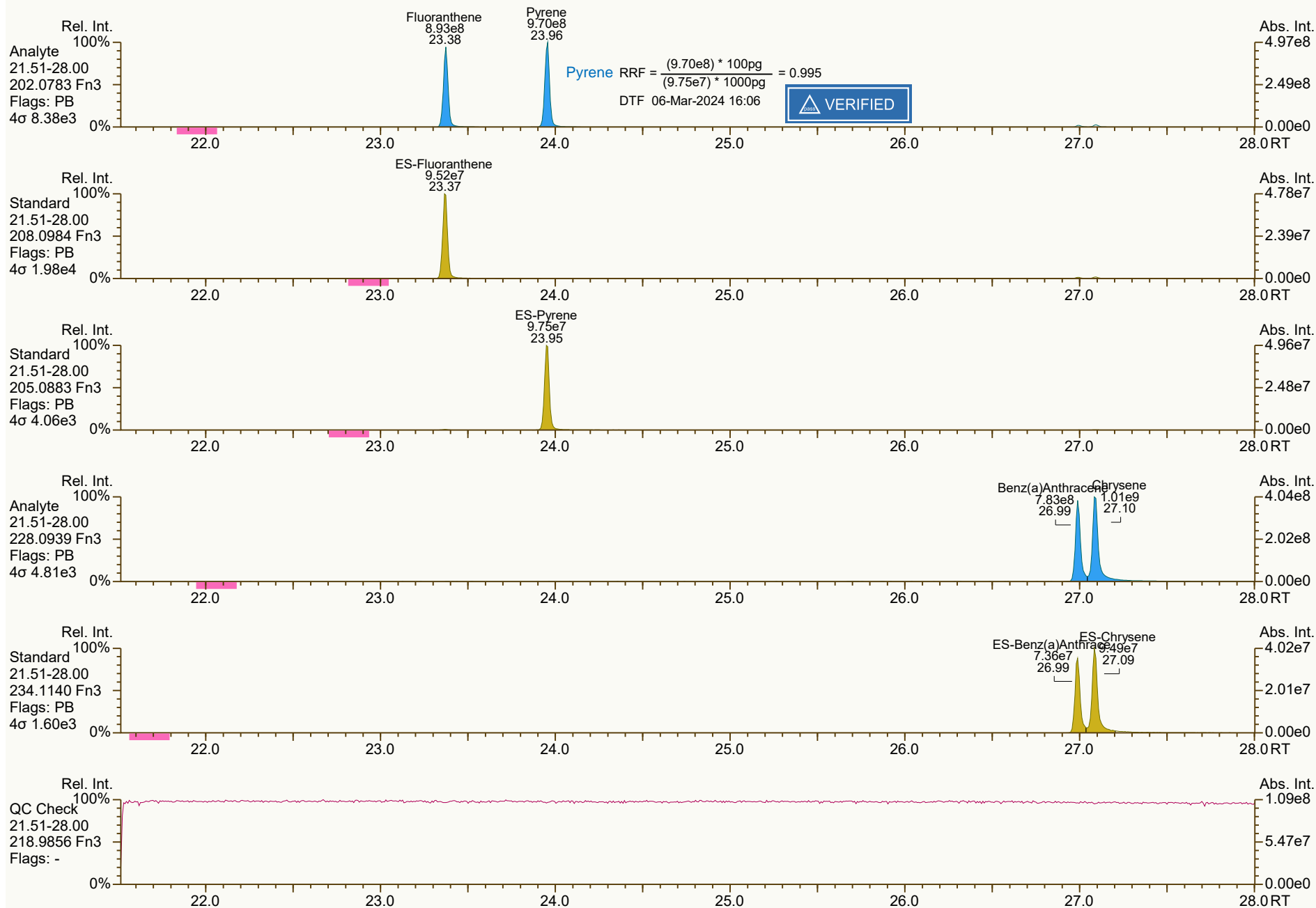
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User: DTF Datafile: 240305V10



SGS ID: CS5_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-1
VSIR EI+ Expt: pah GC: pah Vial: 13

Acq: 05-Mar-2024 19:57:08
User: DTF Datafile: 240305V10



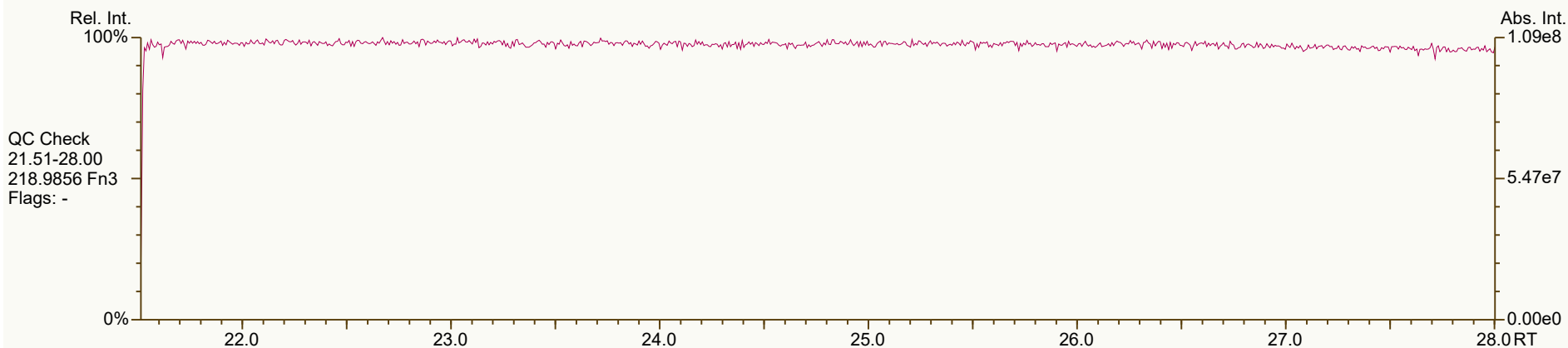
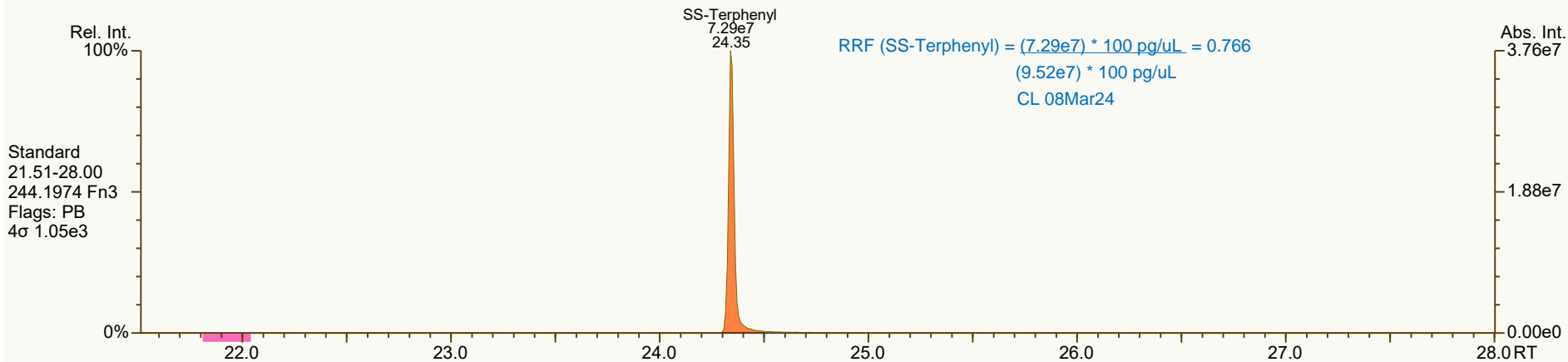
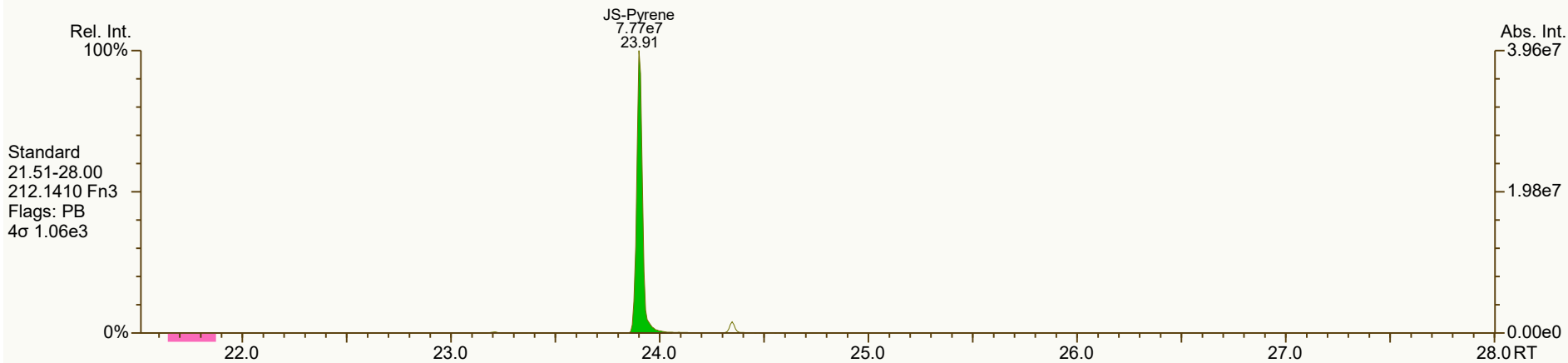
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 4876, 6592, 9514, 3159, 5192 scc: 225-555

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:43 Printed: 06-Mar-2024 16:08 Page 6 of 9

SGS ID: CS5_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-1
VSIR EI+ Expt: pah GC: pah Vial: 13

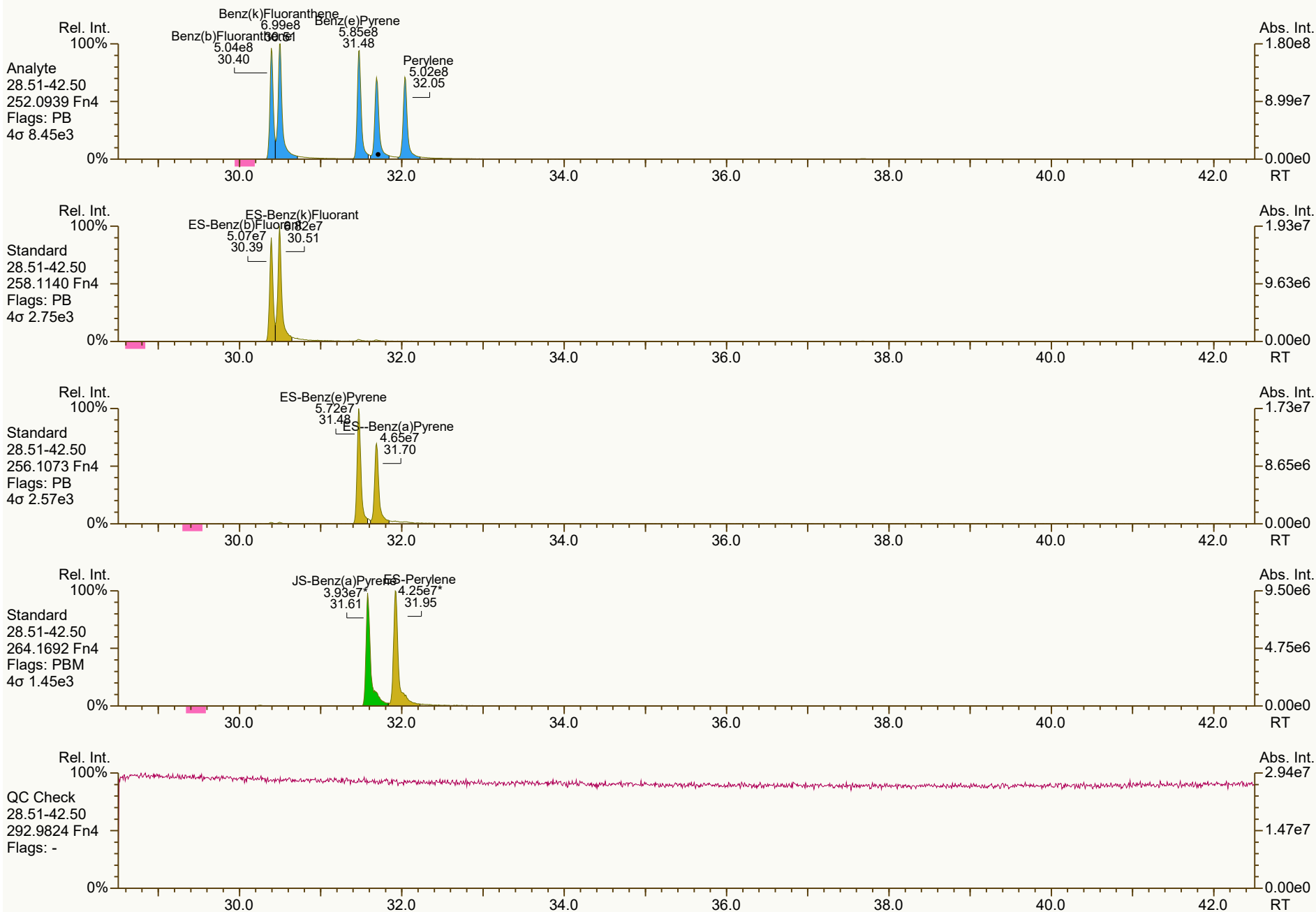
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User: DTF Datafile: 240305V10



SGS ID: CS5_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-1
VSIR EI+ Expt: pah GC: pah Vial: 13

Acq: 05-Mar-2024 19:57:08
User: DTF Datafile: 240305V10



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS5_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:06 (DTF)

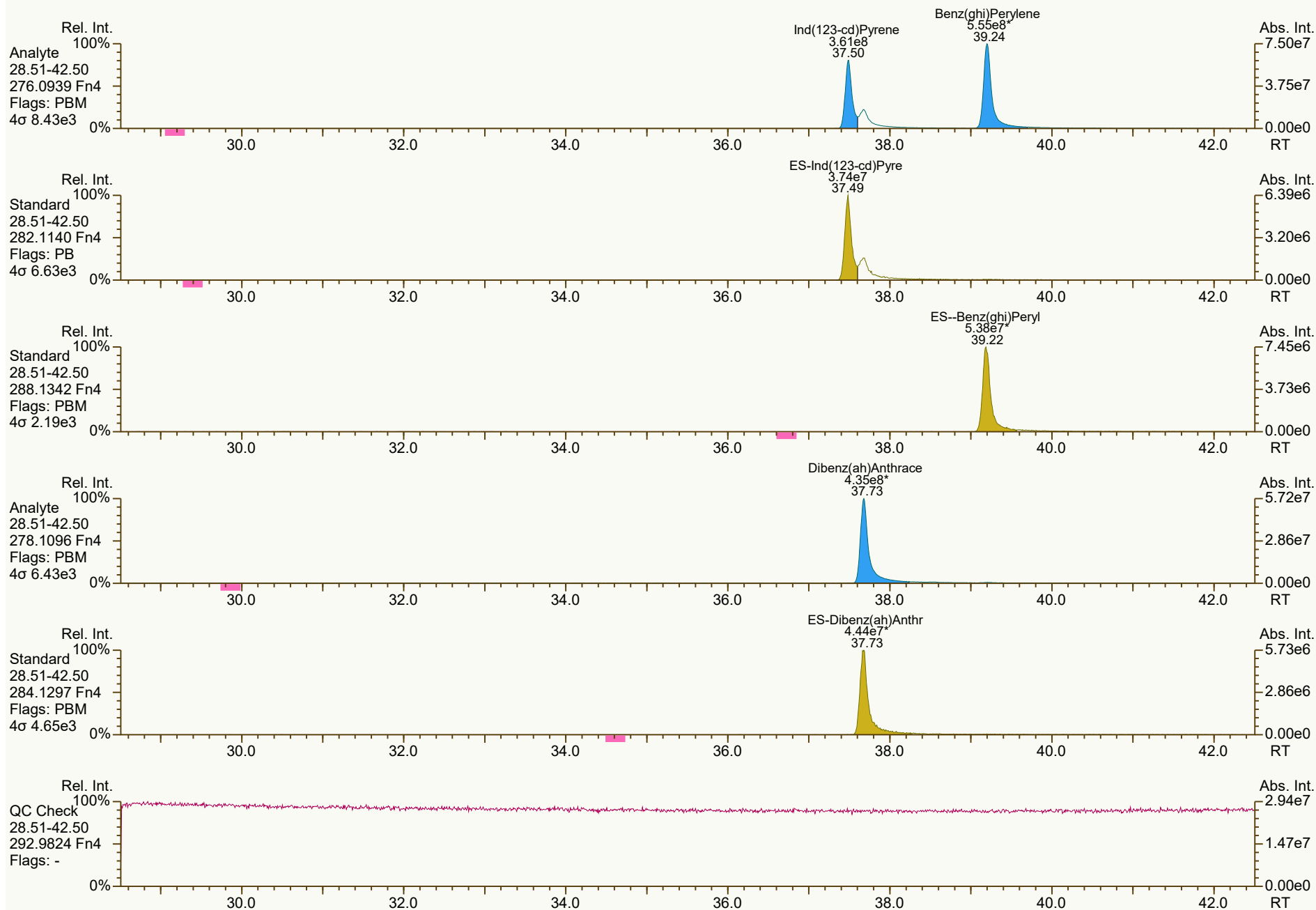
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Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:43 (DTF) Printed: 06-Mar-2024 16:08 Page 8 of 9

SGS ID: CS5_240305_PAH_VA
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: 27-80-1
VSIR EI+ Expt: pah GC: pah Vial: 13

Acq: 05-Mar-2024 19:57:08
User: DTF Datafile: 240305V10



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\CS5_240305_PAH_VA.utp_res, saved 06-Mar-2024 16:06 (DTF)

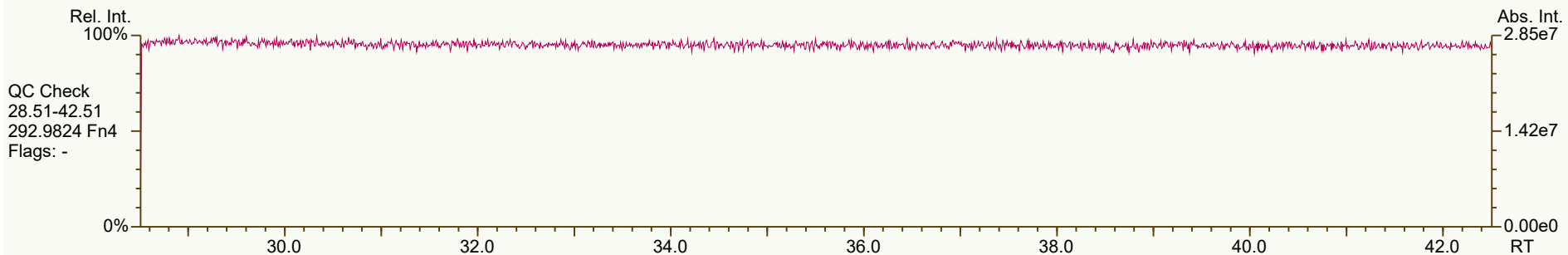
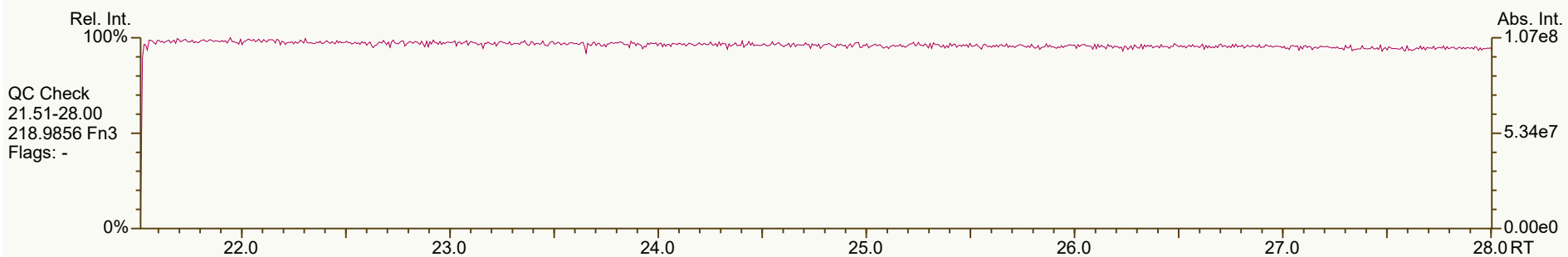
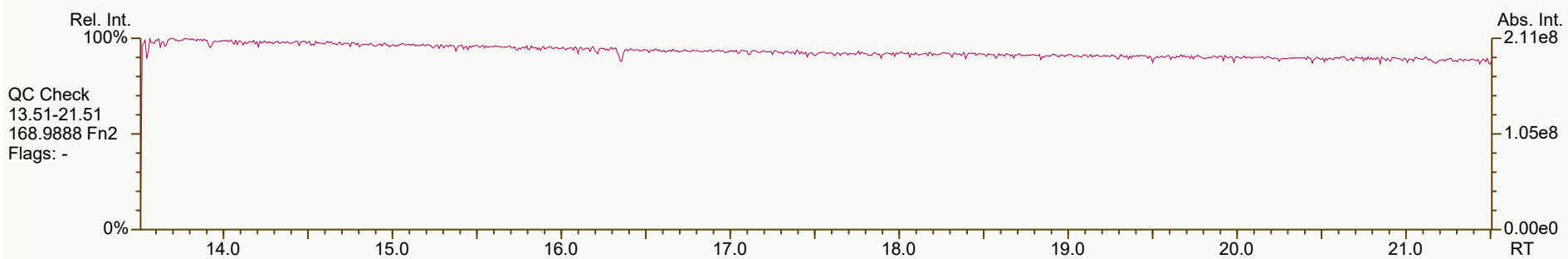
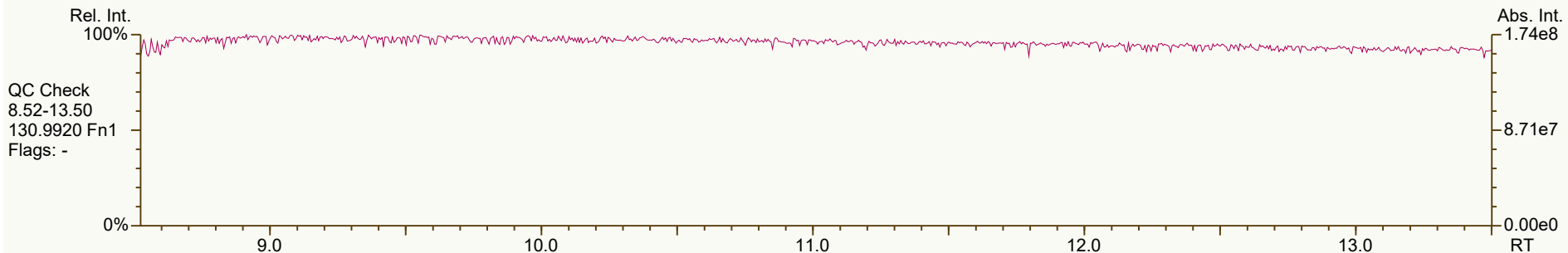
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Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:43 (DTF) Printed: 06-Mar-2024 16:08 Page 9 of 9

SGS ID: SB_240305_PAH_VC
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 16:04:05
User: DTF Datafile: 240305V05



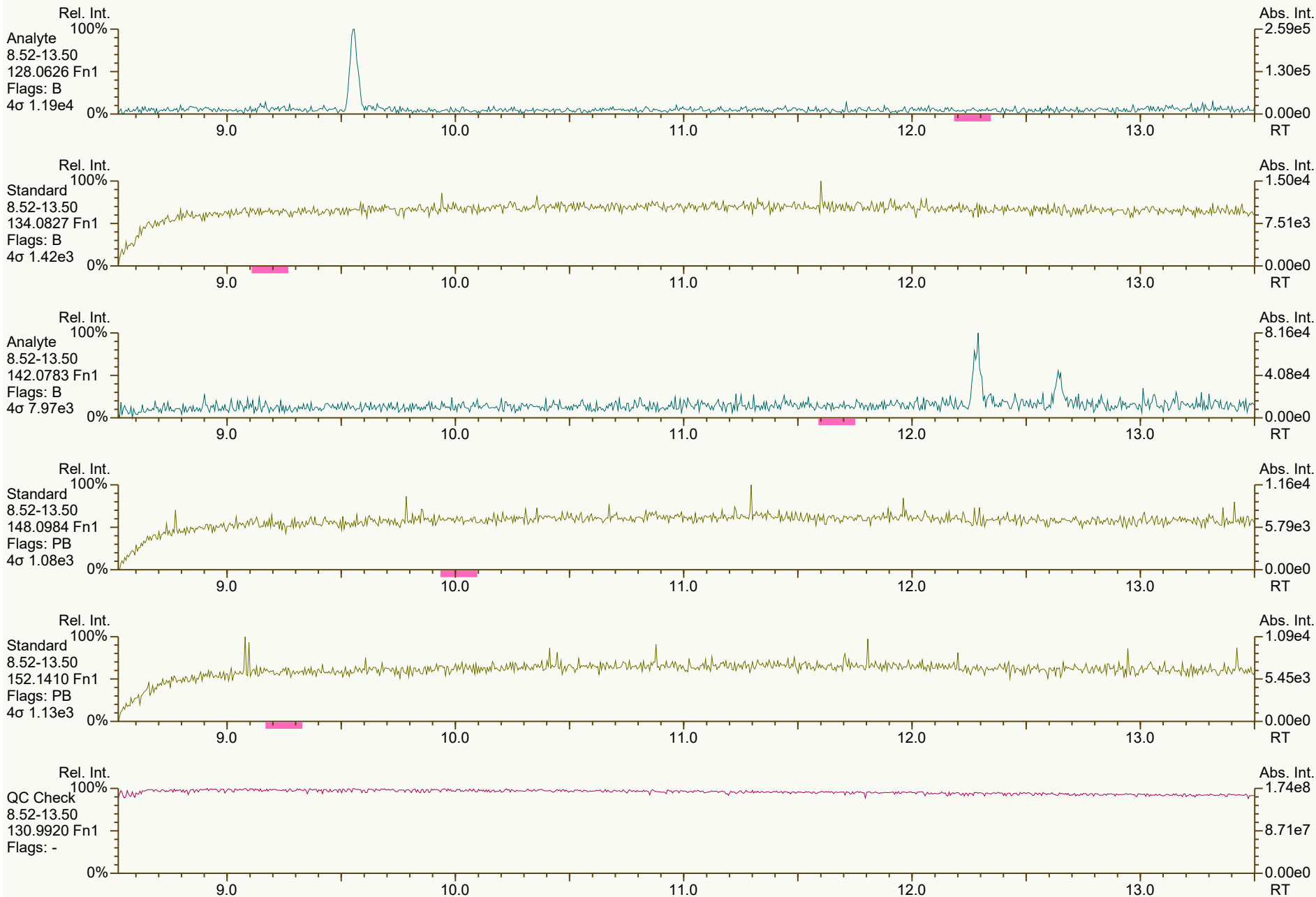
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 129-573

Peak annotation: Areas, Centroids
PKD: n/a Printed: 06-Mar-2024 16:07 Page 1 of 9

SGS ID: SB_240305_PAH_VC
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 16:04:05
User: DTF Datafile: 240305V05



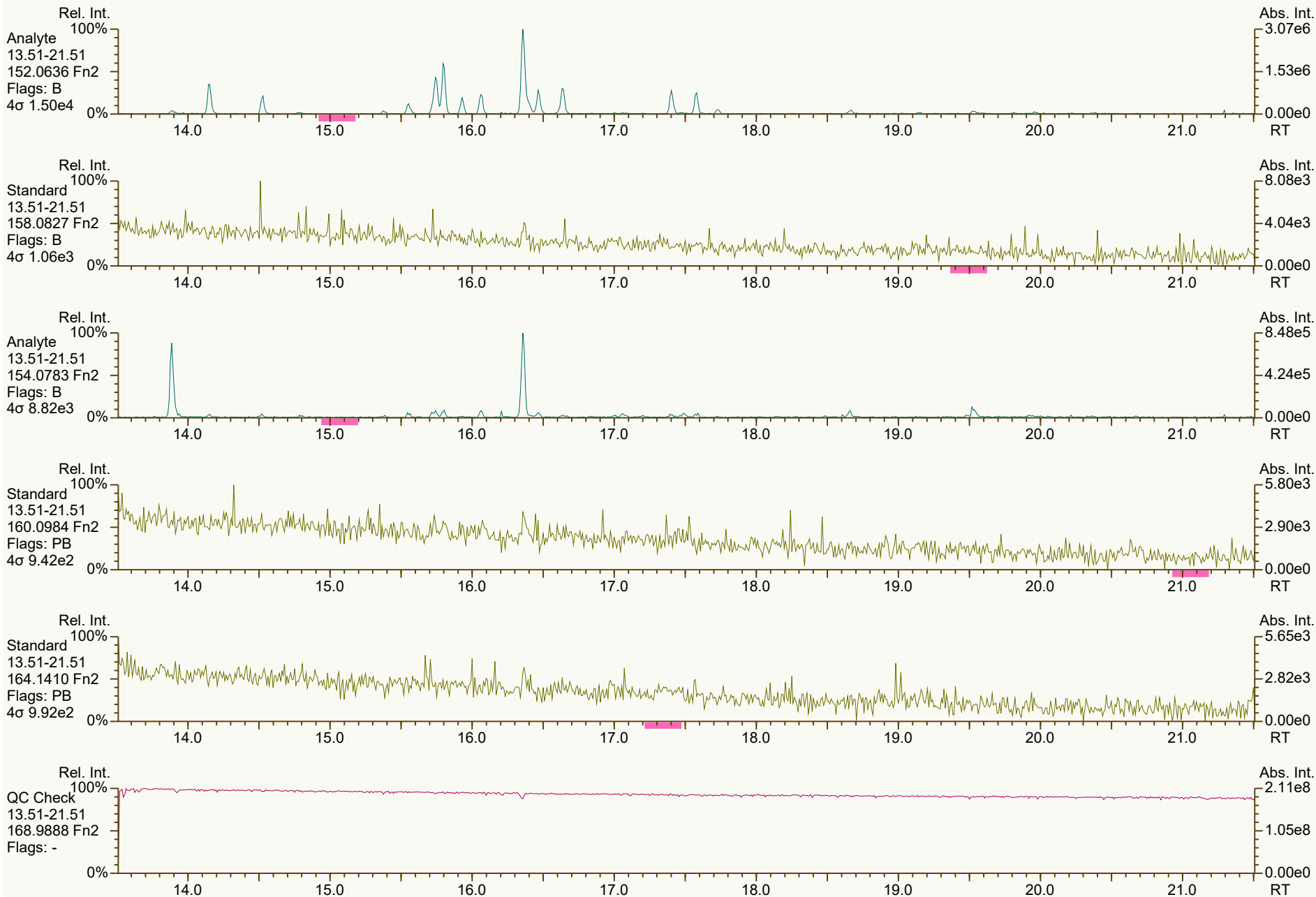
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1425, 0879, 7164, 3635, 5309 scc: 129-573

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:44 Printed: 06-Mar-2024 16:07 Page 2 of 9

SGS ID: SB_240305_PAH_VC
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 16:04:05
User: DTF Datafile: 240305V05



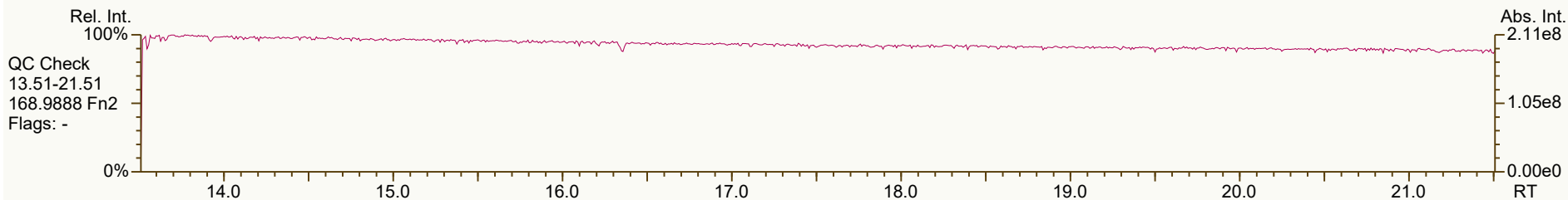
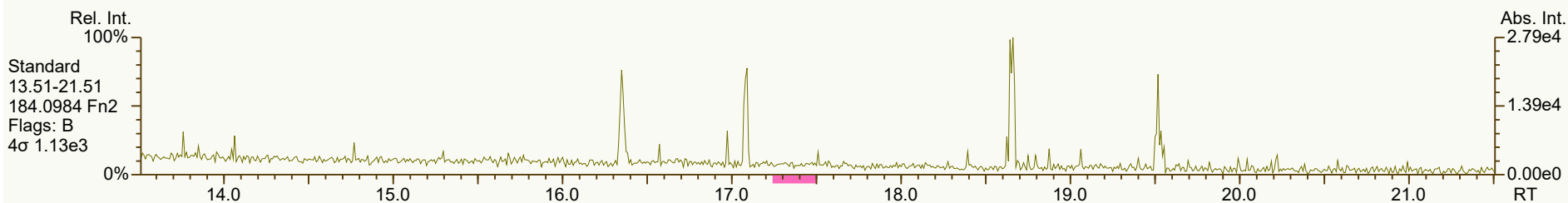
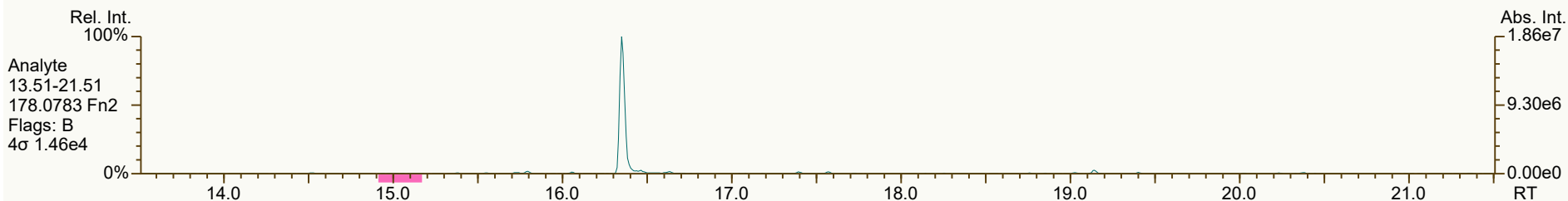
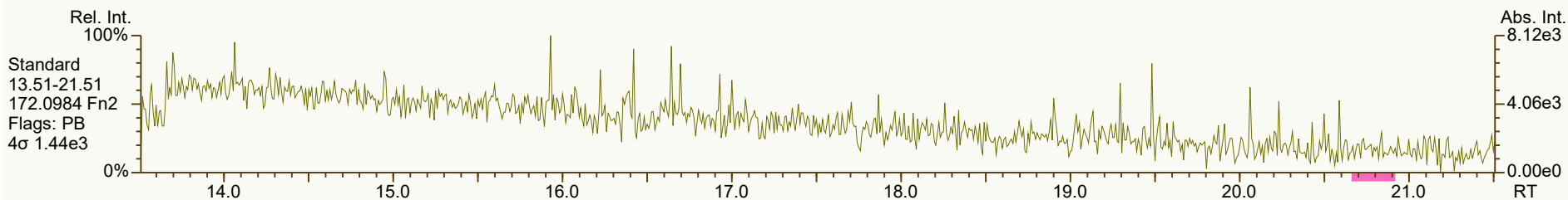
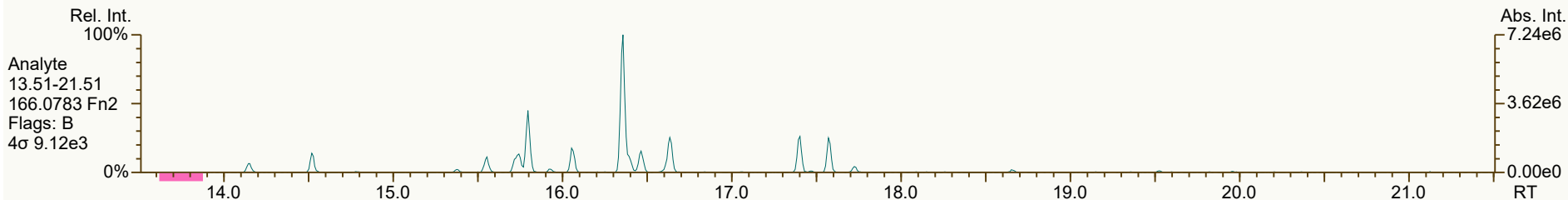
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 8593, 1886, 1294, 7627, 0116 scc: 129-573

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:44 Printed: 06-Mar-2024 16:07 Page 3 of 9

SGS ID: SB_240305_PAH_VC
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 16:04:05
User: DTF Datafile: 240305V05



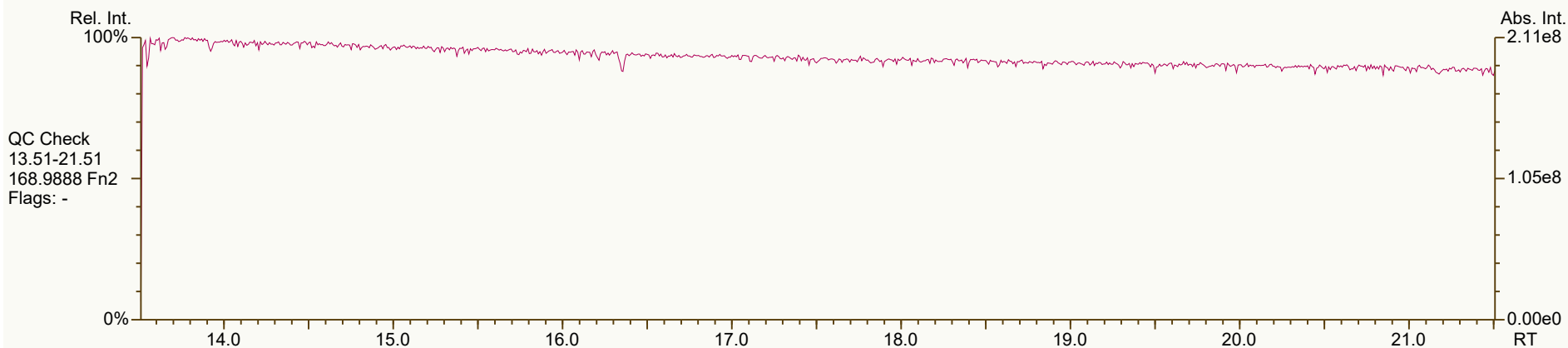
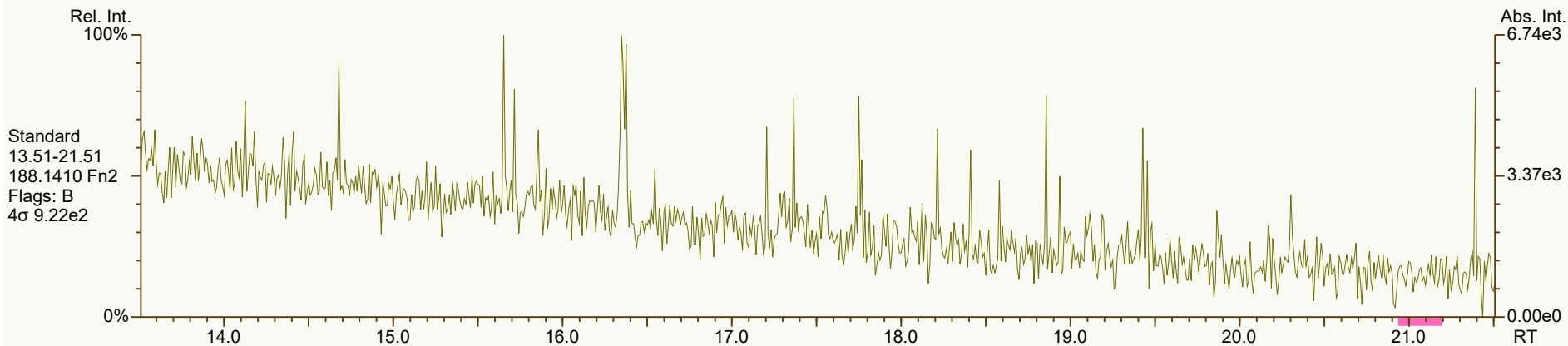
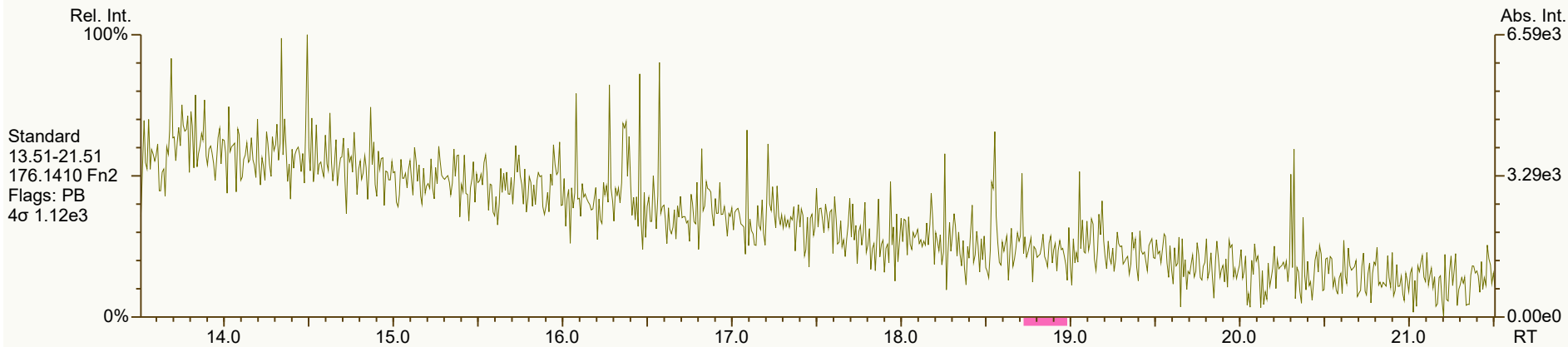
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 0710, 8294, 9614, 8692 scc: 129-573

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:44 Printed: 06-Mar-2024 16:07 Page 4 of 9

SGS ID: SB_240305_PAH_VC
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

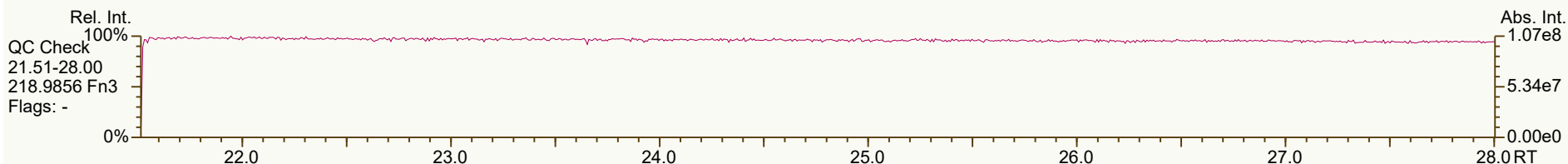
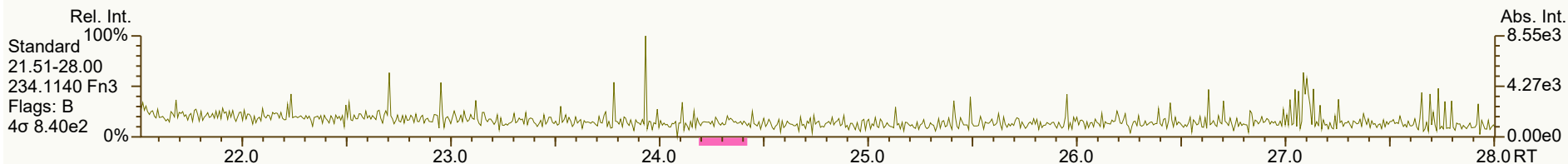
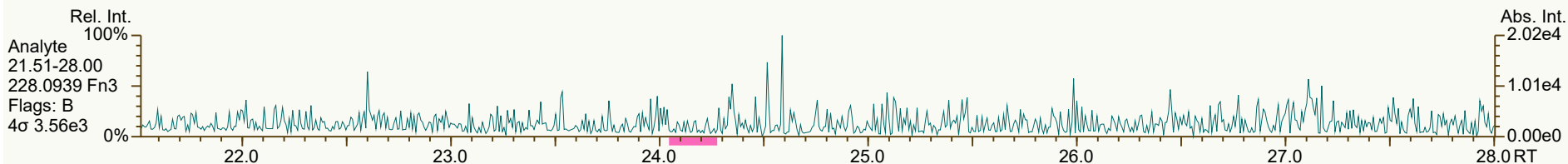
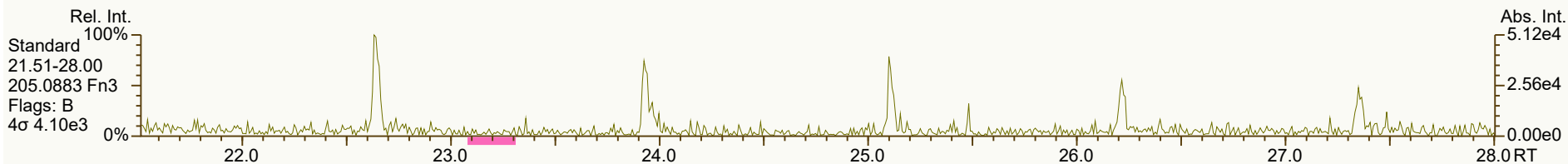
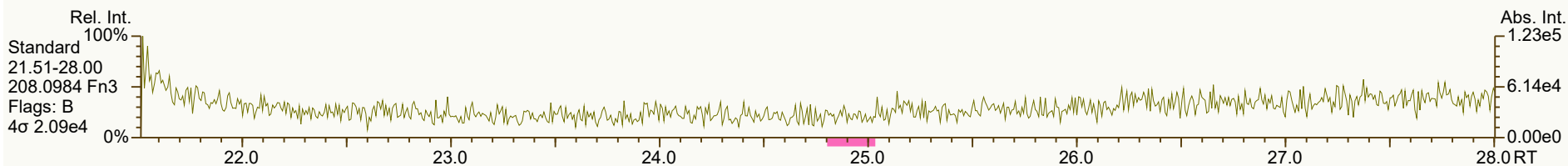
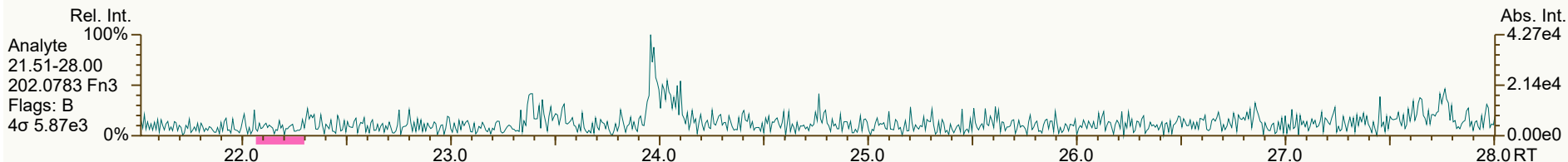
Acq: 05-Mar-2024 16:04:05
User: DTF Datafile: 240305V05



SGS ID: SB_240305_PAH_VC
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 16:04:05
User: DTF Datafile: 240305V05



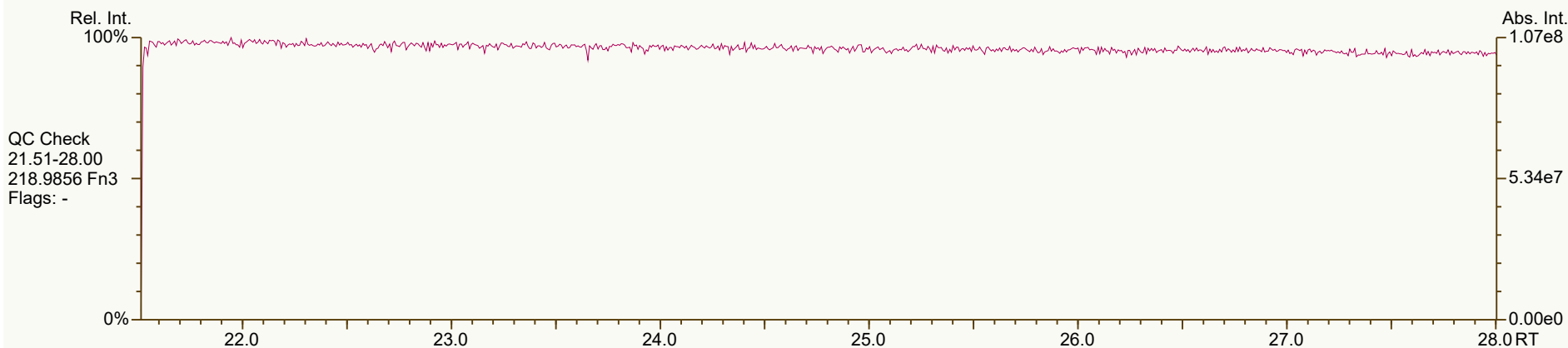
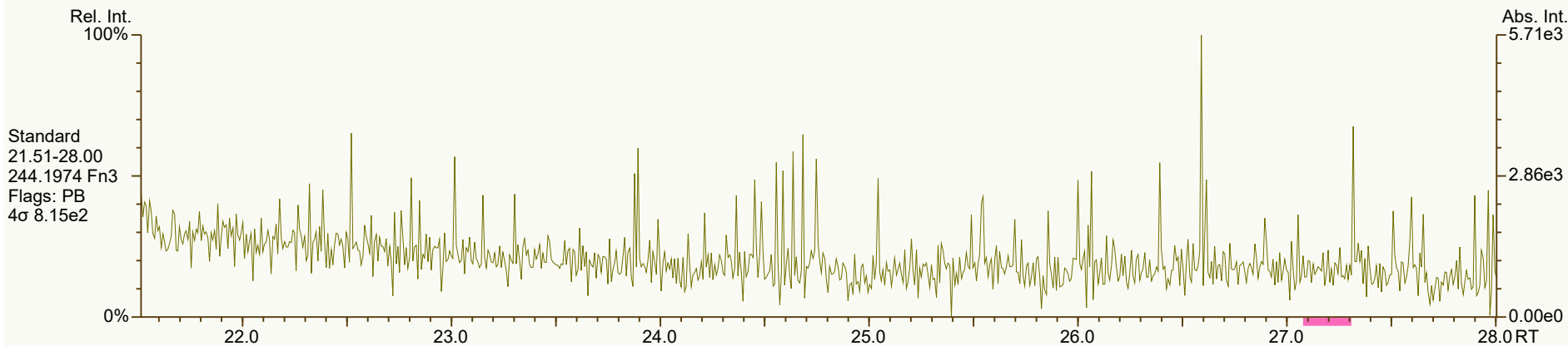
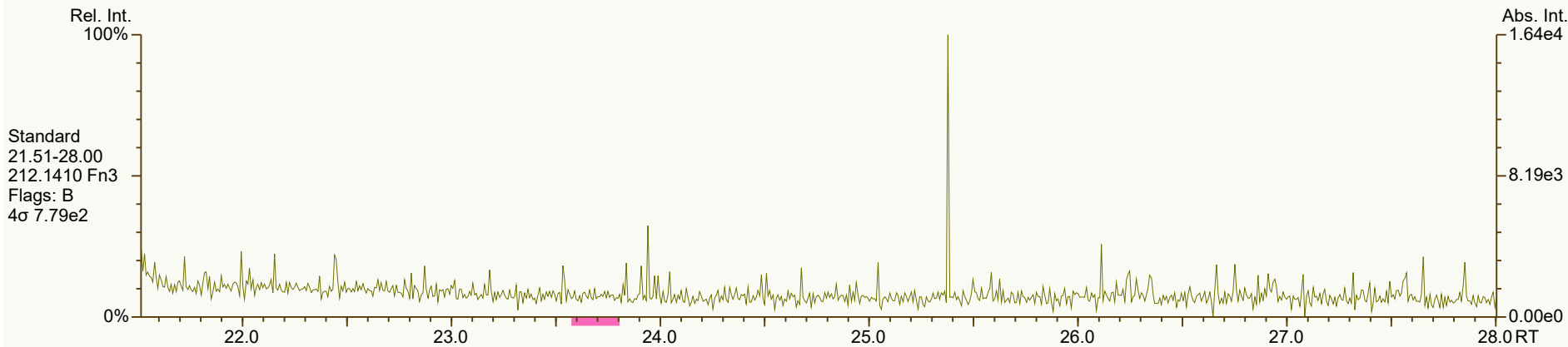
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 2645, 7341, 1454, 5334, 2490 scc: 129-573

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:44 Printed: 06-Mar-2024 16:07 Page 6 of 9

SGS ID: SB_240305_PAH_VC
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

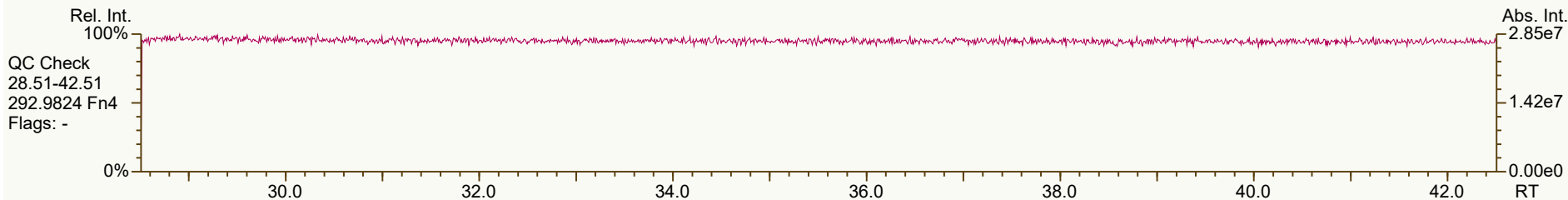
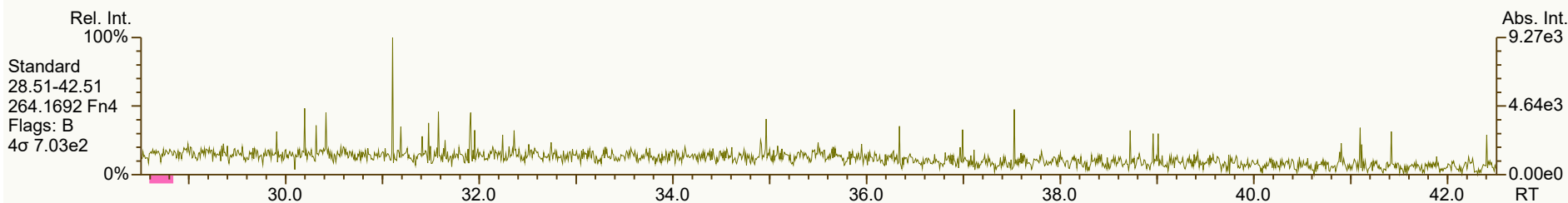
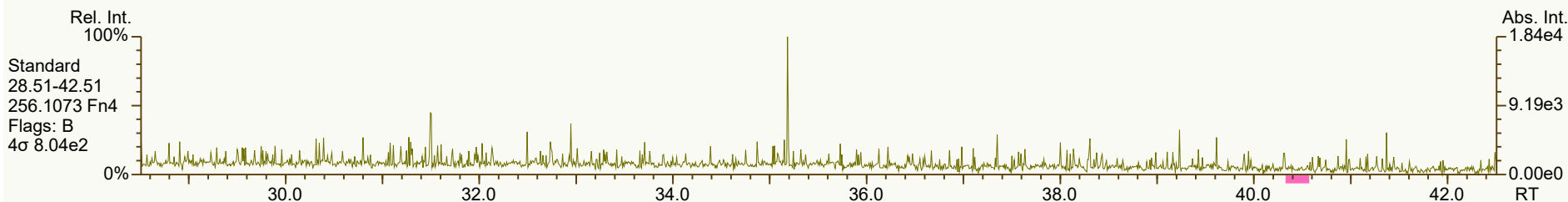
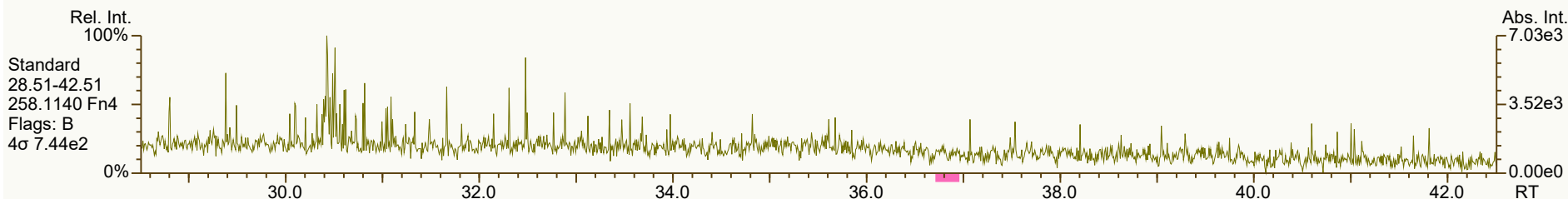
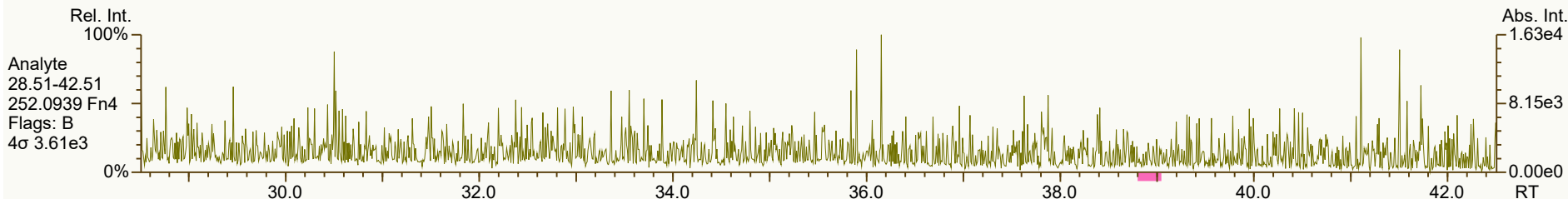
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User: DTF Datafile: 240305V05



SGS ID: SB_240305_PAH_VC
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 16:04:05
User: DTF Datafile: 240305V05



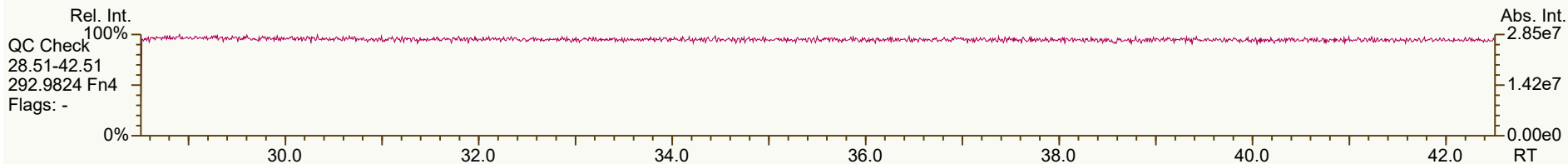
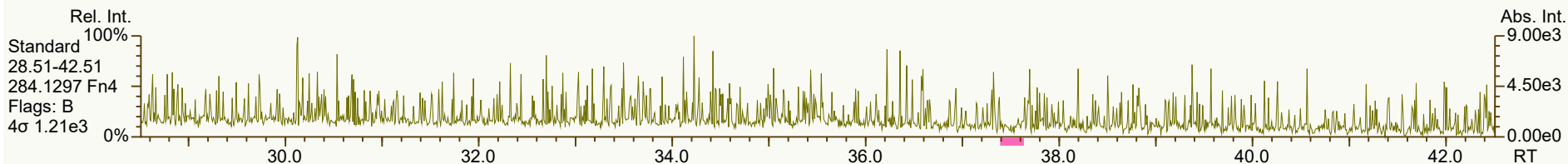
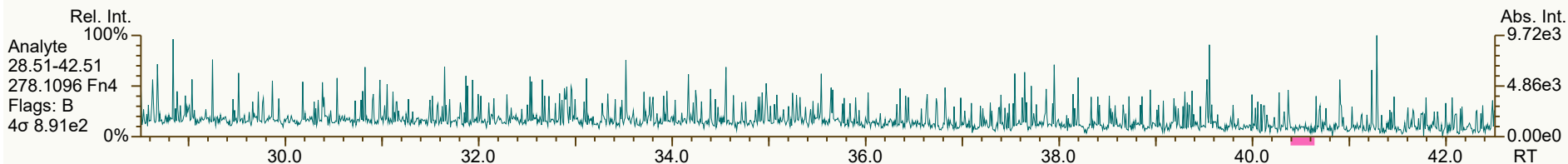
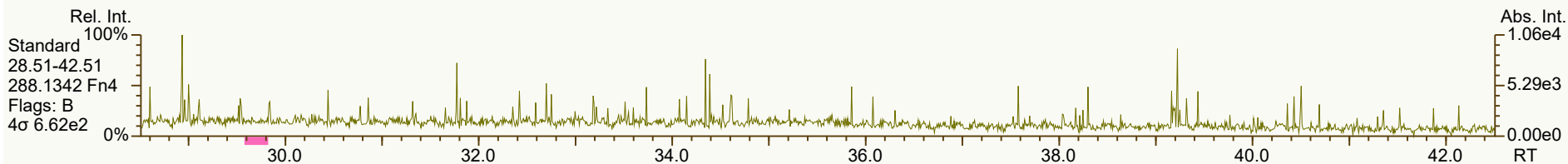
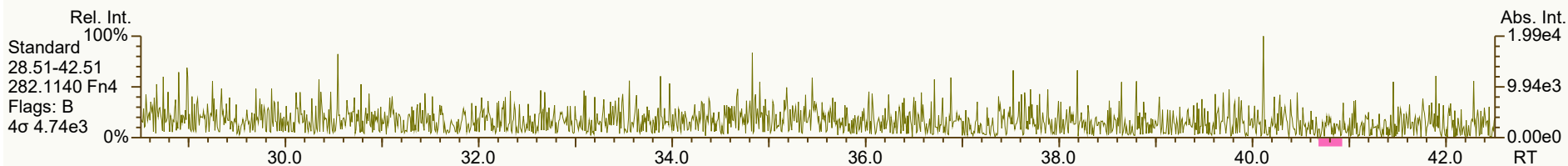
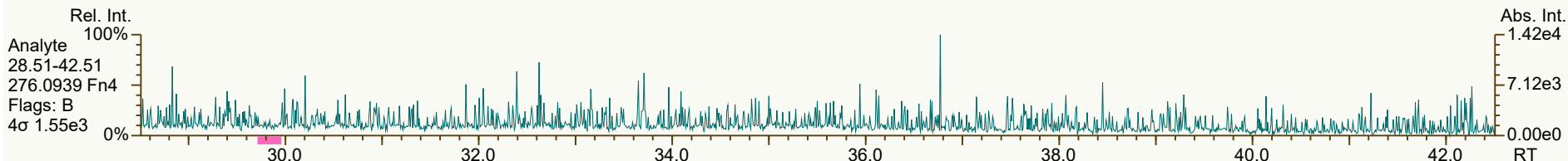
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 2830, 9234, 6633, 7414 scc: 129-573

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:44 Printed: 06-Mar-2024 16:07 Page 8 of 9

SGS ID: SB_240305_PAH_VC
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 16:04:05
User: DTF Datafile: 240305V05



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\Resources\SB_240305_PAH_VC.utp_res, saved 06-Mar-2024 14:44 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 2431, 4251, 3461, 4705, 0820 scc: 129-573

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:44 Printed: 06-Mar-2024 16:07 Page 9 of 9

Instrument: MM6 (AutoSpec-Premier)

MS Experiment: pah

GC Program: pah

| # | Datafile | Vial# | Lab ID | Wt/Vol | Client/Sample ID | Analyst(s) | Checkcode | Acq Date | Acq Time |
|---|-----------|-------|-------------------|--------|------------------|------------|-----------|-------------|----------|
| 0 | 240305V11 | 4 | SB_240305_PAH_VD | 1.00 | Isooctane | DTF | 472-191 | 05-Mar-2024 | 20:47:49 |
| 1 | 240305V12 | 14 | CS3_240305_PAH_VB | 1.00 | ICV 27-76-3 | DTF | 396-070 | 05-Mar-2024 | 21:31:36 |

REVIEWED

Tyler_Fritz , 3/6/2024, 4:12:37 PM

REVIEWED

Carla_Lyon , 3/8/2024, 11:55:54 AM

HR-PAH QC Summary

SGS North America

Printed: 6-Mar-24 15:34

Lab ID: CS3_240305_PAH_VB ICV 27-76-3
Acquired: 05 Mar 2024 21:31:36
Datafile: 240305V12

MM6_PAH_ICAL_05MAR2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|------------------------|-------|----------|----|------|------|---------|
| Naphthalene | 9.53 | 8.12E+07 | - | 0.99 | 1.07 | 7.7% |
| 2-Methylnaphthalene | 12.27 | 5.68E+07 | - | 1.01 | 1.05 | 3.9% |
| Acenaphthylene | 15.26 | 3.71E+07 | - | 0.92 | 0.86 | -7.4% |
| Acenaphthene | 15.84 | 3.68E+07 | - | 1.01 | 1.21 | 19.6% |
| Fluorene | 17.46 | 3.80E+07 | - | 1.02 | 1.09 | 7.4% |
| Phenanthrene | 20.22 | 6.64E+07 | - | 1.00 | 1.10 | 9.9% |
| Anthracene | 20.36 | 5.90E+07 | - | 1.23 | 1.41 | 14.7% |
| Fluoranthene | 23.37 | 5.10E+07 | - | 0.92 | 0.99 | 7.7% |
| Pyrene | 23.95 | 5.48E+07 | - | 0.98 | 1.03 | 5.4% |
| Benzo(a)Anthracene | 26.99 | 4.13E+07 | - | 1.00 | 1.12 | 11.2% |
| Chrysene | 27.08 | 5.34E+07 | - | 1.01 | 1.10 | 8.8% |
| Benzo(b)Fluoranthene | 30.38 | 2.64E+07 | - | 0.98 | 1.14 | 15.9% |
| Benzo(k)Fluoranthene | 30.49 | 2.94E+07 | - | 0.92 | 0.89 | -2.9% |
| Benzo(e)Pyrene | 31.47 | 3.20E+07 | - | 0.98 | 1.12 | 15.2% |
| Benzo(a)Pyrene | 31.68 | 2.74E+07 | - | 0.98 | 1.22 | 24.5% ✓ |
| Perylene | 32.03 | 2.51E+07 | - | 1.06 | 1.19 | 12.0% |
| Indeno(1,2,3-cd)Pyrene | 37.48 | 1.54E+07 | - | 0.92 | 1.04 | 13.0% |
| Dibenzo(a,h)Anthracene | 37.66 | 1.73E+07 | - | 0.94 | 1.09 | 16.1% |
| Benzo(ghi)Perylene | 39.18 | 2.42E+07 | - | 0.97 | 1.03 | 6.0% |

ok - 70-130%

CL 08Mar24

HR-PAH QC Summary

SGS North America

Printed: 6-Mar-24 15:34

Lab ID: CS3_240305_PAH_VB ICV 27-76-3
Acquired: 05 Mar 2024 21:31:36
Datafile: 240305V12

MM6_PAH_ICAL_05MAR2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-----------------------------|-------|----------|----|------|------|--------|
| 13C6-Naphthalene | 9.53 | 7.60E+07 | - | 1.35 | 1.31 | -3.0% |
| 13C6-2-Methylnaphthalene | 12.26 | 5.42E+07 | - | 0.99 | 0.93 | -5.9% |
| 13C6-Acenaphthylene | 15.26 | 4.33E+07 | - | 1.37 | 1.24 | -9.5% |
| 13C6-Acenaphthene | 15.84 | 3.03E+07 | - | 0.91 | 0.86 | -4.8% |
| 13C6-Fluorene | 17.45 | 3.48E+07 | - | 1.09 | 0.99 | -9.2% |
| 13C6-Phenanthrene | 20.21 | 6.06E+07 | - | 1.91 | 1.73 | -9.4% |
| 13C6-Anthracene | 20.35 | 4.17E+07 | - | 1.35 | 1.19 | -11.5% |
| 13C6-Fluoranthene | 23.37 | 5.17E+07 | - | 1.23 | 1.14 | -7.4% |
| 13C3-Pyrene | 23.94 | 5.30E+07 | - | 1.23 | 1.16 | -5.7% |
| 13C6-Benzo(a)Anthracene | 26.99 | 3.70E+07 | - | 0.86 | 0.81 | -5.9% |
| 13C6-Chrysene | 27.08 | 4.87E+07 | - | 1.19 | 1.07 | -10.0% |
| 13C6-Benzo(b)Fluoranthene | 30.38 | 2.32E+07 | - | 1.28 | 1.17 | -8.7% |
| 13C6-Benzo(k)Fluoranthene | 30.49 | 3.30E+07 | - | 1.82 | 1.66 | -8.8% |
| 13C4-Benzo(e)Pyrene | 31.46 | 2.85E+07 | - | 1.56 | 1.43 | -8.2% |
| 13C4-Benzo(a)Pyrene | 31.68 | 2.24E+07 | - | 1.23 | 1.13 | -8.0% |
| d12-Perylene | 31.91 | 2.12E+07 | - | 1.13 | 1.07 | -5.3% |
| 13C6-Indeno(1,2,3-cd)Pyrene | 37.46 | 1.49E+07 | - | 0.85 | 0.75 | -12.1% |
| 13C6-Dibenzo(ah)Anthracene | 37.65 | 1.59E+07 | - | 0.94 | 0.80 | -14.9% |
| 13C12-Benzo(ghi)Perylene | 39.16 | 2.35E+07 | - | 1.33 | 1.18 | -10.9% |

~~AS-Anthracene~~ not spiked 0.00 0.00E+00 - 1.17 0.00 -100.0%

~~SS-Fluorene~~ 0.00 0.00E+00 - 1.00 0.00 -100.0%

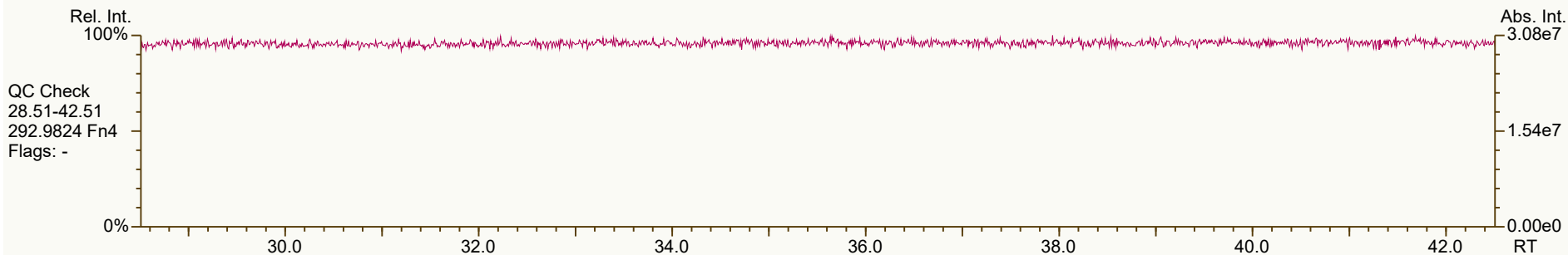
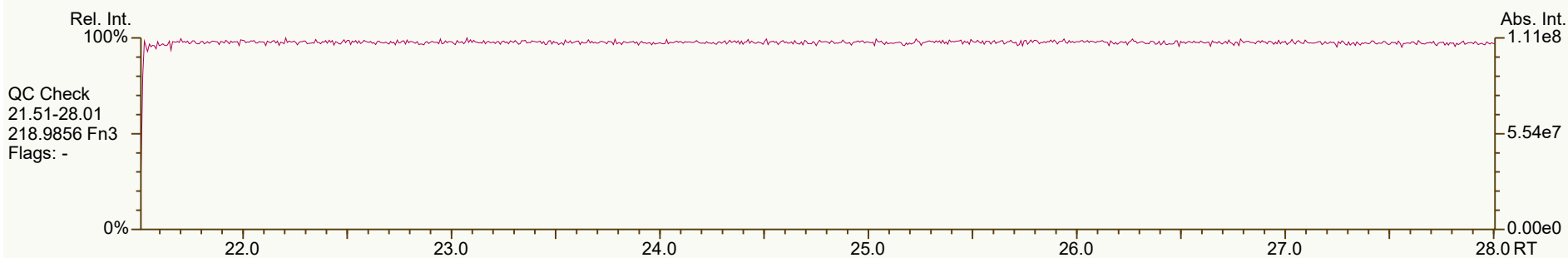
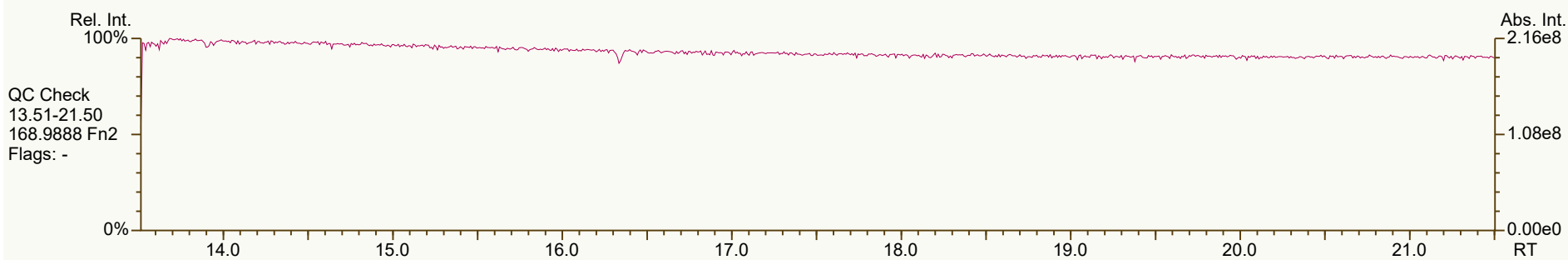
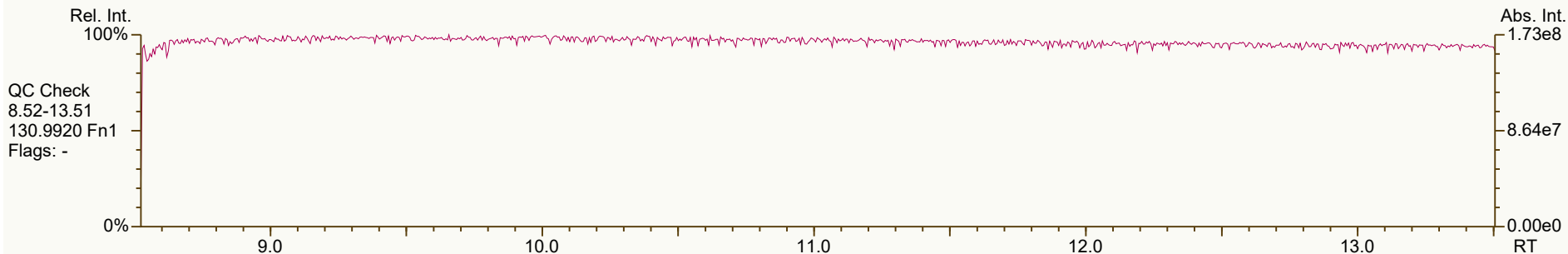
~~SS-Torphenyl~~ 0.00 0.00E+00 - 0.79 0.00 -100.0%

| | | | | | | |
|----------------------|-------|----------|---|---|---|---|
| JS-Methylnaphthalene | 12.14 | 5.82E+07 | - | - | - | - |
| JS-Acenaphthene | 15.73 | 3.50E+07 | - | - | - | - |
| JS-Pyrene | 23.90 | 4.55E+07 | - | - | - | - |
| JS-Benzo(a)Pyrene | 31.57 | 1.99E+07 | - | - | - | - |

SGS ID: CS3_240305_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: ICV 27-76-3
VSIR EI+ Expt: pah GC: pah Vial: 14

Acq: 05-Mar-2024 21:31:36
User: DTF Datafile: 240305V12



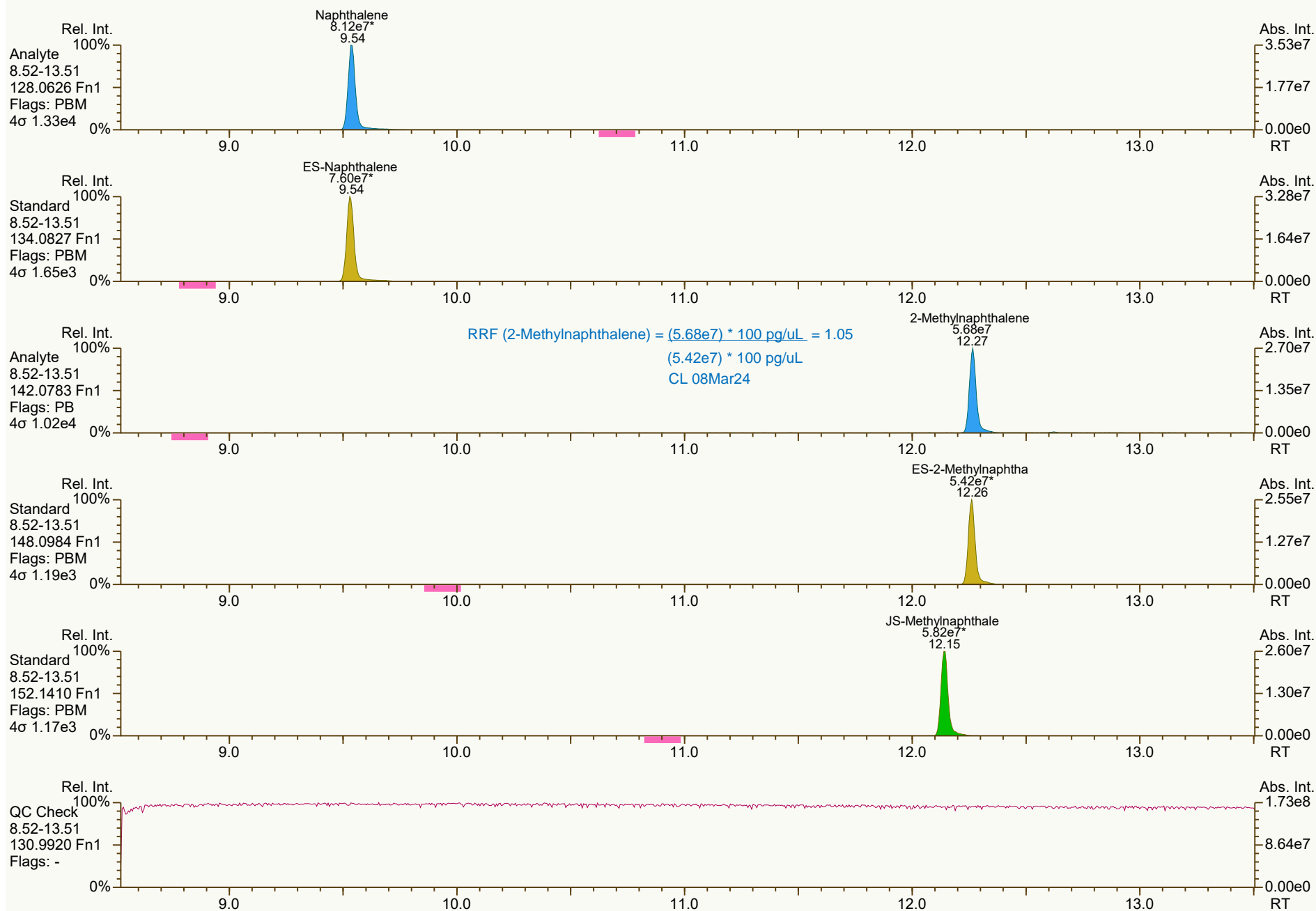
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 396-070

Peak annotation: Areas, Centroids
PKD: n/a Printed: 06-Mar-2024 15:34 Page 1 of 9

SGS ID: CS3_240305_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: ICV 27-76-3
VSIR EI+ Expt: pah GC: pah Vial: 14

Acq: 05-Mar-2024 21:31:36
User: DTF Datafile: 240305V12



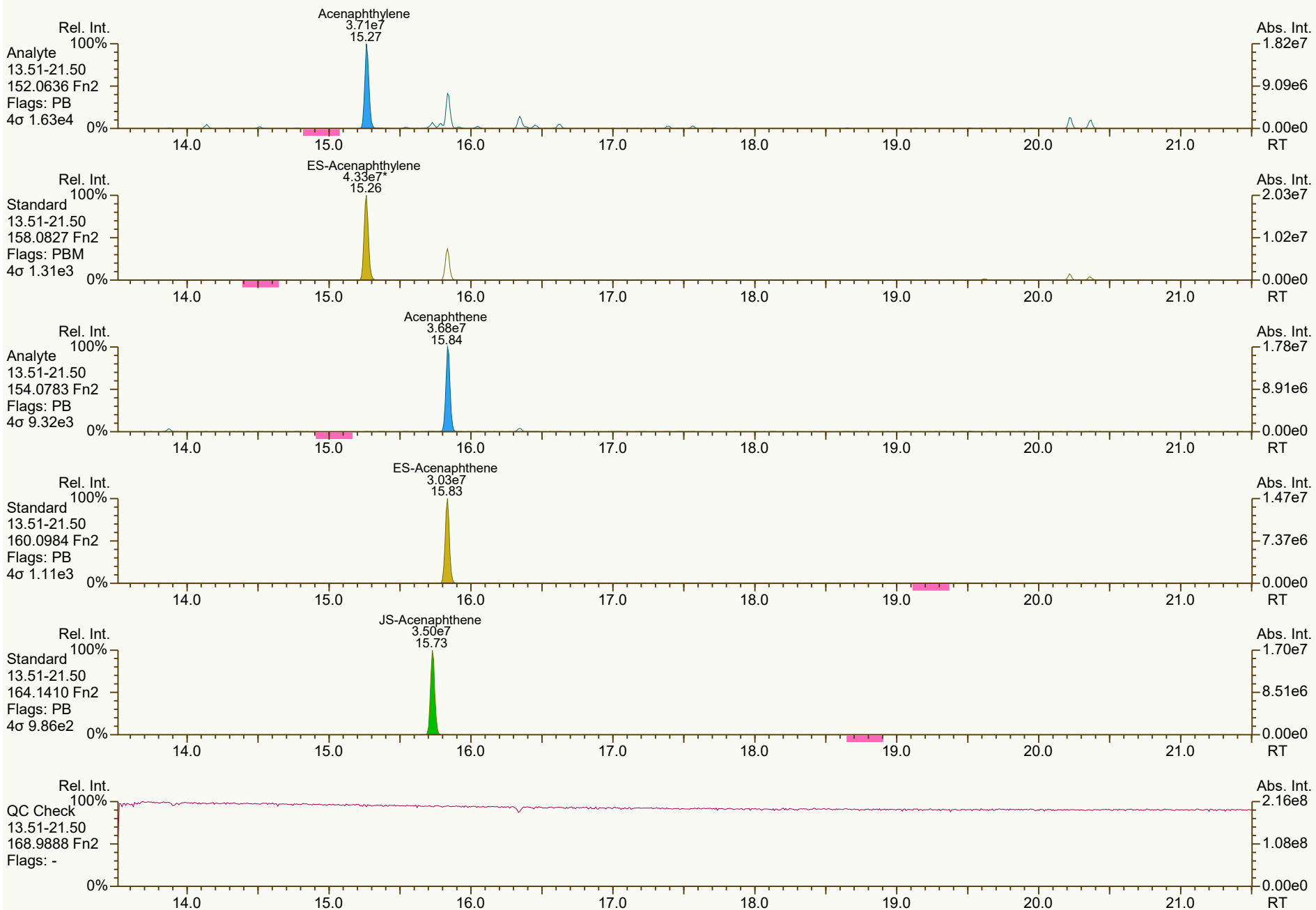
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1894, 2431, 2604, 5898, 5608 scc: 396-070

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:57 (DTF) Printed: 06-Mar-2024 15:34 Page 2 of 9

SGS ID: CS3_240305_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: ICV 27-76-3
VSIR EI+ Expt: pah GC: pah Vial: 14

Acq: 05-Mar-2024 21:31:36
User: DTF Datafile: 240305V12



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\ICV\CS3_240305_PAH_VB.utp_res, saved 06-Mar-2024 15:30 (DTF)

Peak annotation: Areas, Centroids

SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 5843, 2316, 1733, 8848, 6154 scc: 396-070

Revised: 06-Mar-2024 14:57 (DTF) Printed: 06-Mar-2024 15:34 Page 3 of 9

SGS ID: CS3_240305_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: ICV 27-76-3
VSIR EI+ Expt: pah GC: pah Vial: 14

Acq: 05-Mar-2024 21:31:36
User: DTF Datafile: 240305V12



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\ICV\CS3_240305_PAH_VB.utp_res, saved 06-Mar-2024 15:30 (DTF)

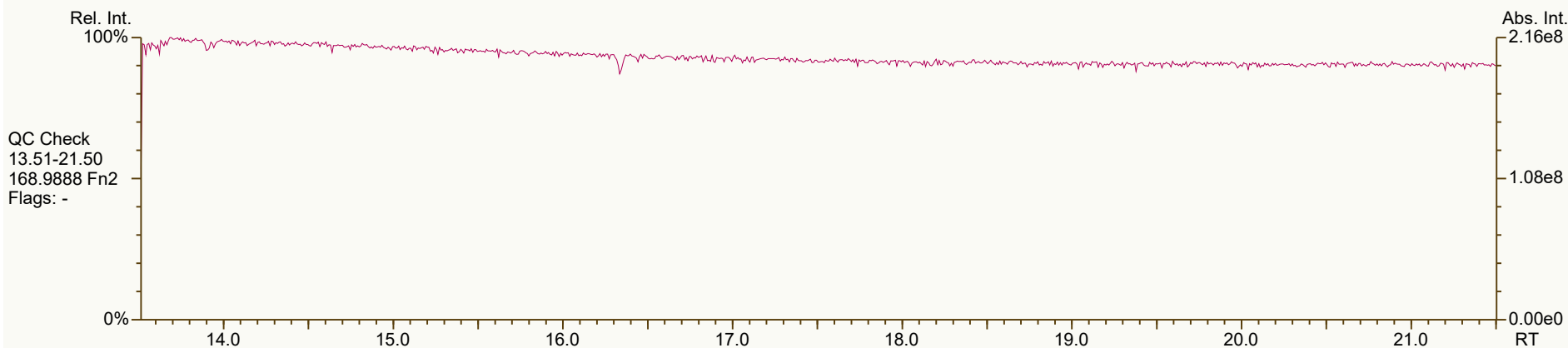
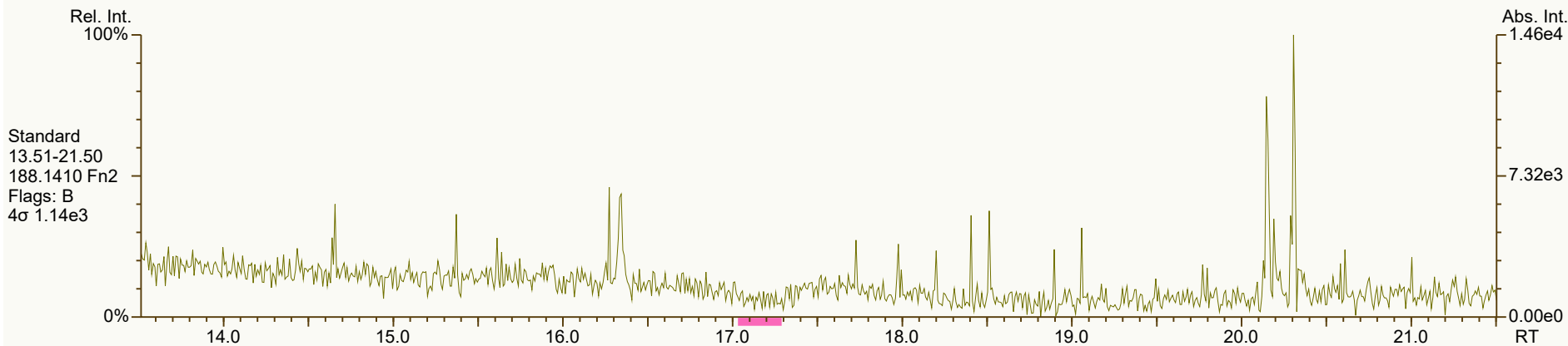
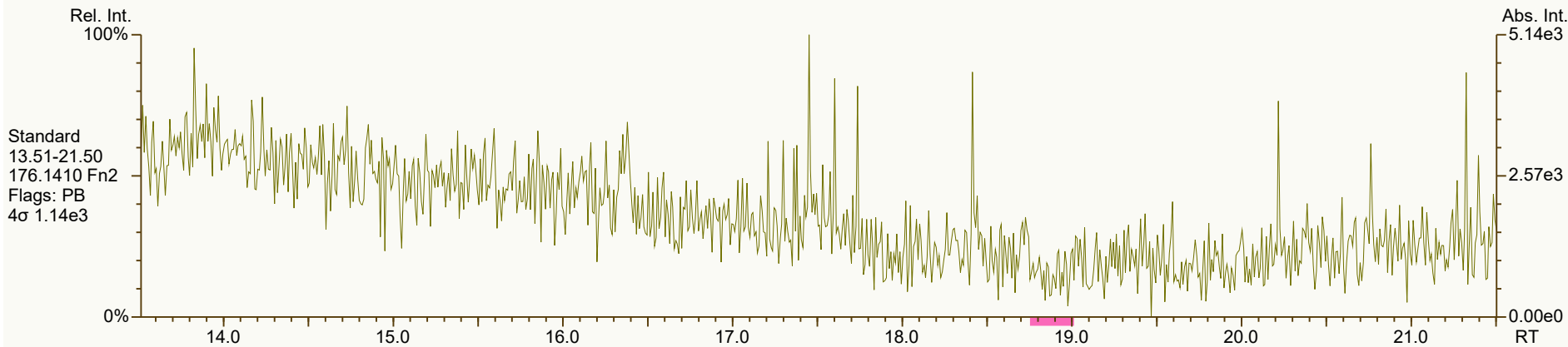
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Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:58 (DTF) Printed: 06-Mar-2024 15:34 Page 4 of 9

SGS ID: CS3_240305_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: ICV 27-76-3
VSIR EI+ Expt: pah GC: pah Vial: 14

Acq: 05-Mar-2024 21:31:36
User: DTF Datafile: 240305V12



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\ICV\CS3_240305_PAH_VB.utp_res, saved 06-Mar-2024 15:30 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 5624, 3216 scc: 396-070

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:57 Printed: 06-Mar-2024 15:34 Page 5 of 9

SGS ID: CS3_240305_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: ICV 27-76-3
VSIR EI+ Expt: pah GC: pah Vial: 14

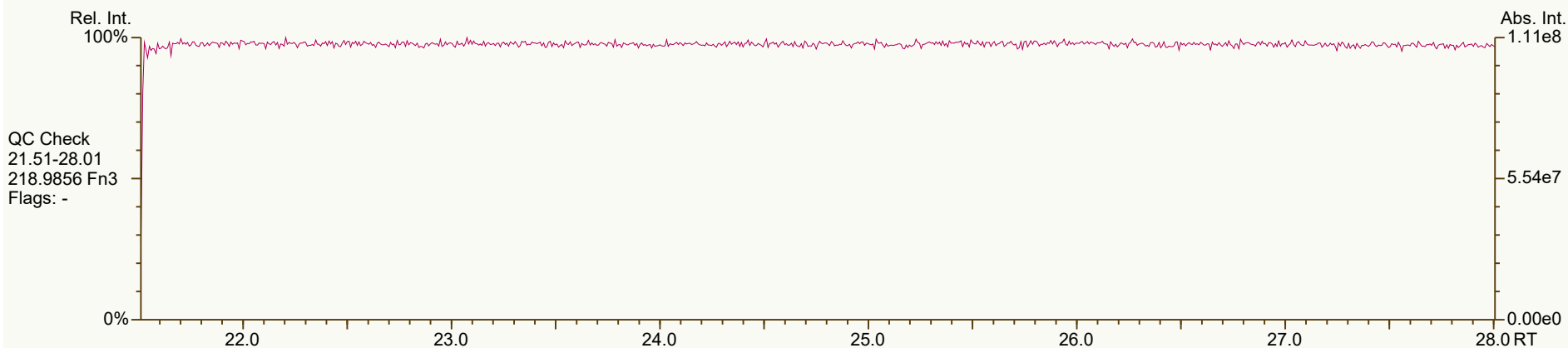
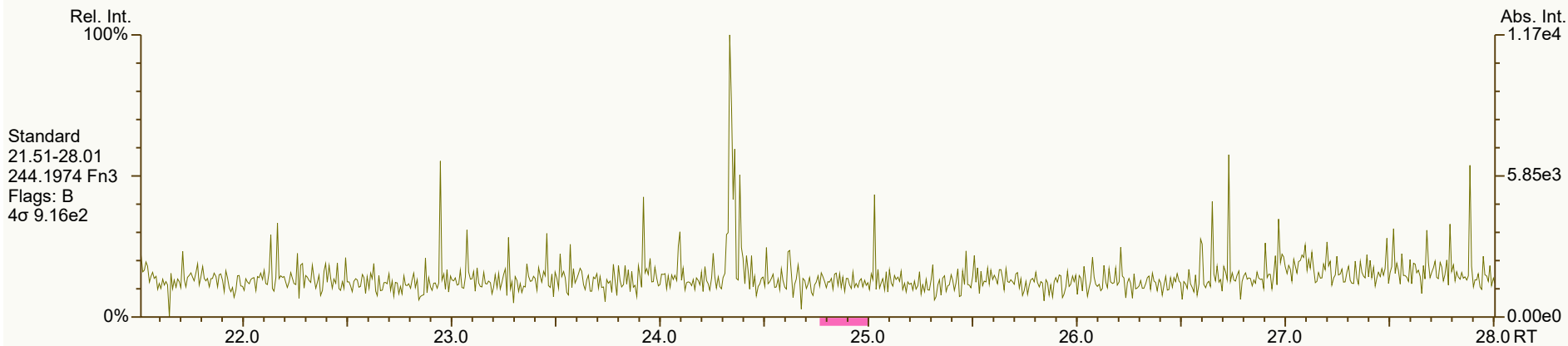
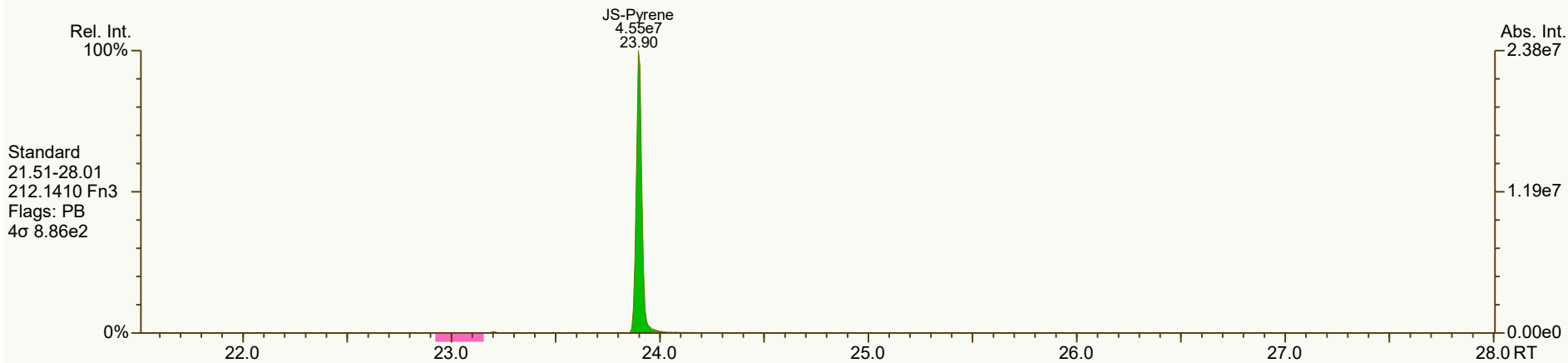
Acq: 05-Mar-2024 21:31:36
User: DTF Datafile: 240305V12



SGS ID: CS3_240305_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: ICV 27-76-3
VSIR EI+ Expt: pah GC: pah Vial: 14

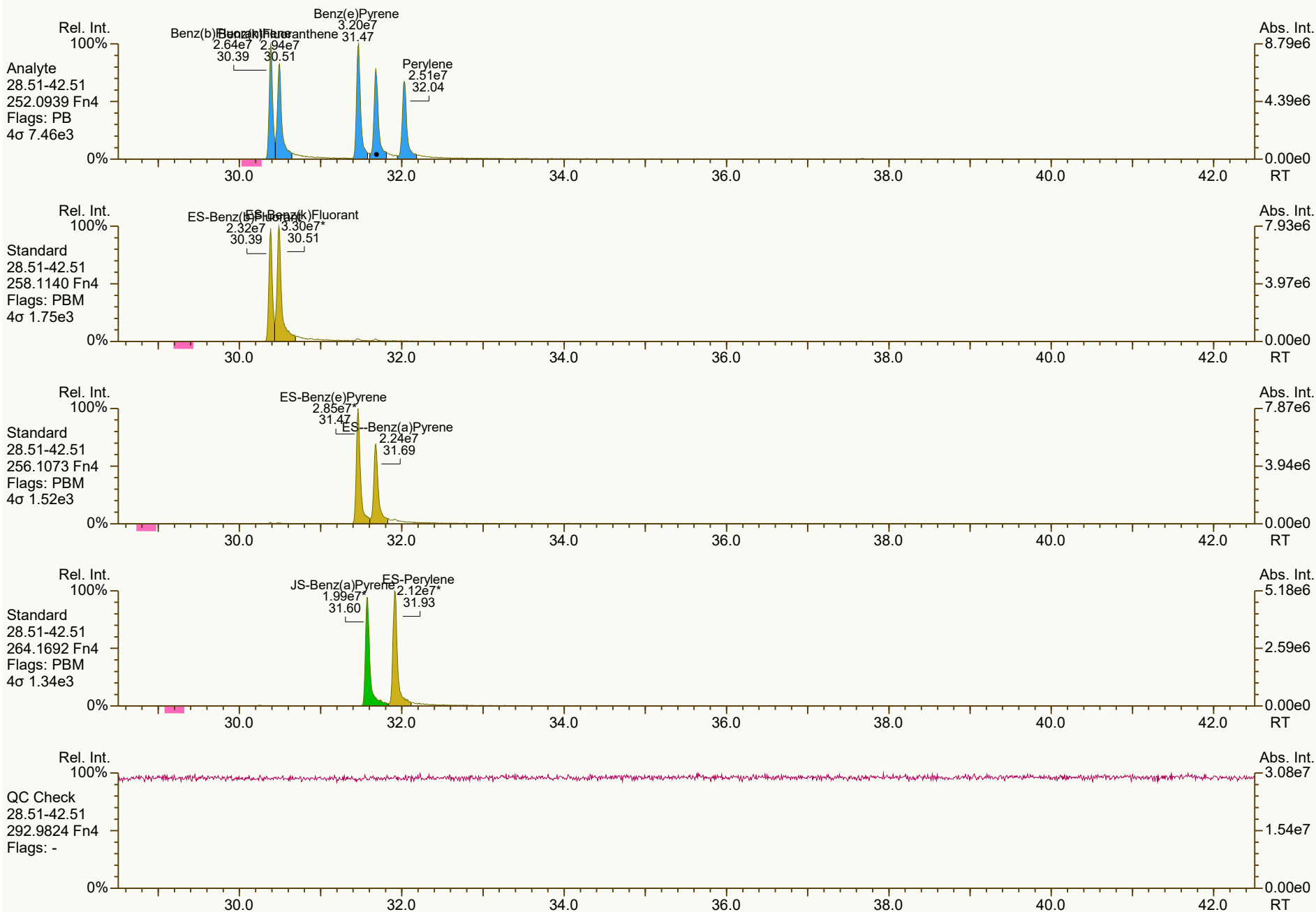
Acq: 05-Mar-2024 21:31:36
User: DTF Datafile: 240305V12



SGS ID: CS3_240305_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: ICV 27-76-3
VSIR EI+ Expt: pah GC: pah Vial: 14

Acq: 05-Mar-2024 21:31:36
User: DTF Datafile: 240305V12



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\ICV\CS3_240305_PAH_VB.utp_res, saved 06-Mar-2024 15:30 (DTF)

SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 4431, 5476, 1379, 1249 scc: 396-070

Peak annotation: Areas, Centroids
Revised: 06-Mar-2024 14:57 (DTF) Printed: 06-Mar-2024 15:34 Page 8 of 9

SGS ID: CS3_240305_PAH_VB
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: ICV 27-76-3
VSIR EI+ Expt: pah GC: pah Vial: 14

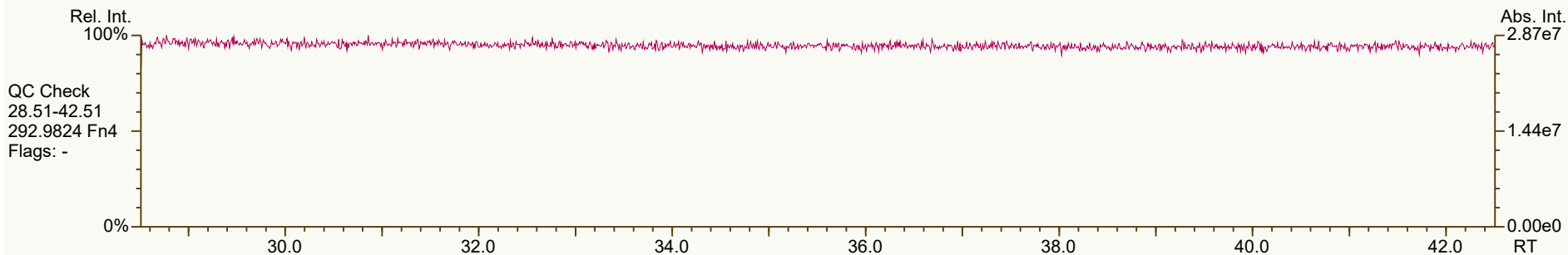
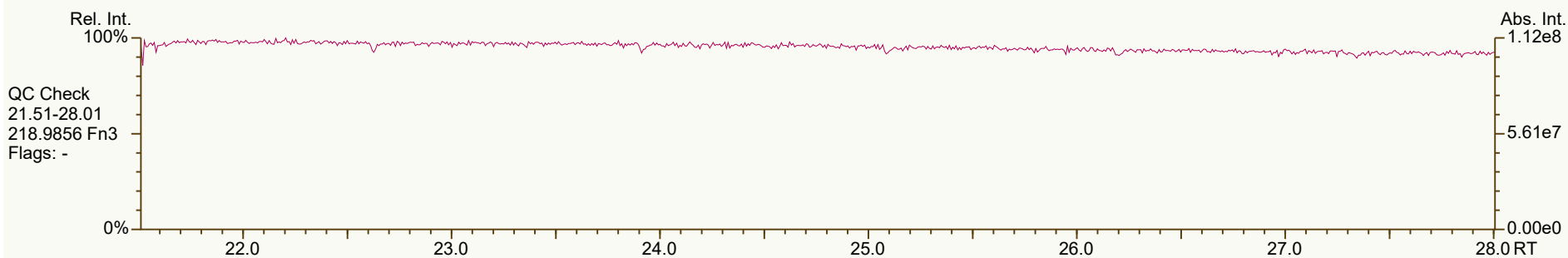
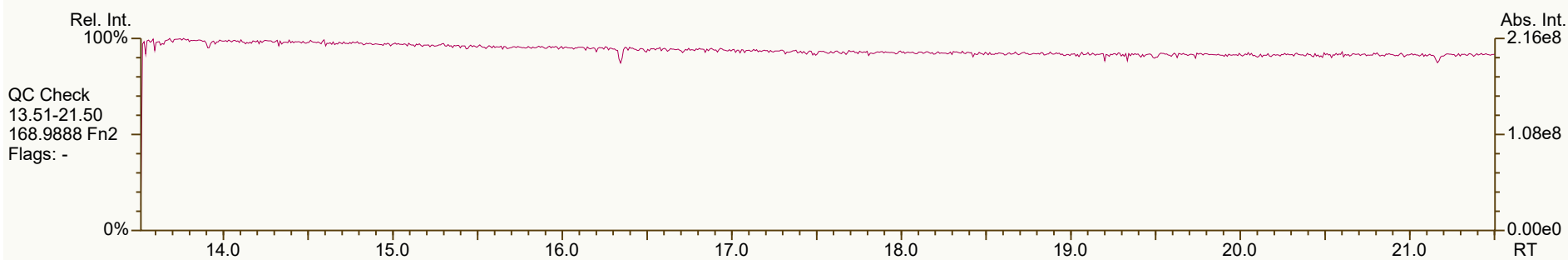
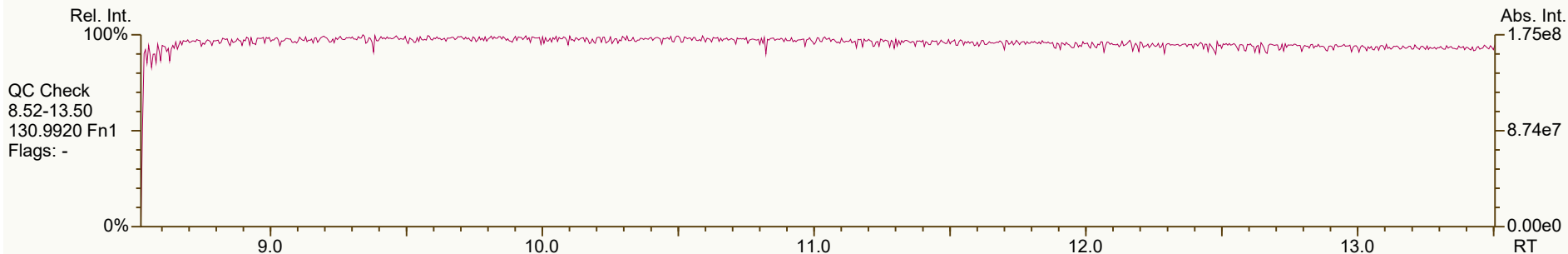
Acq: 05-Mar-2024 21:31:36
User: DTF Datafile: 240305V12



SGS ID: SB_240305_PAH_VD
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 20:47:49
User: DTF Datafile: 240305V11



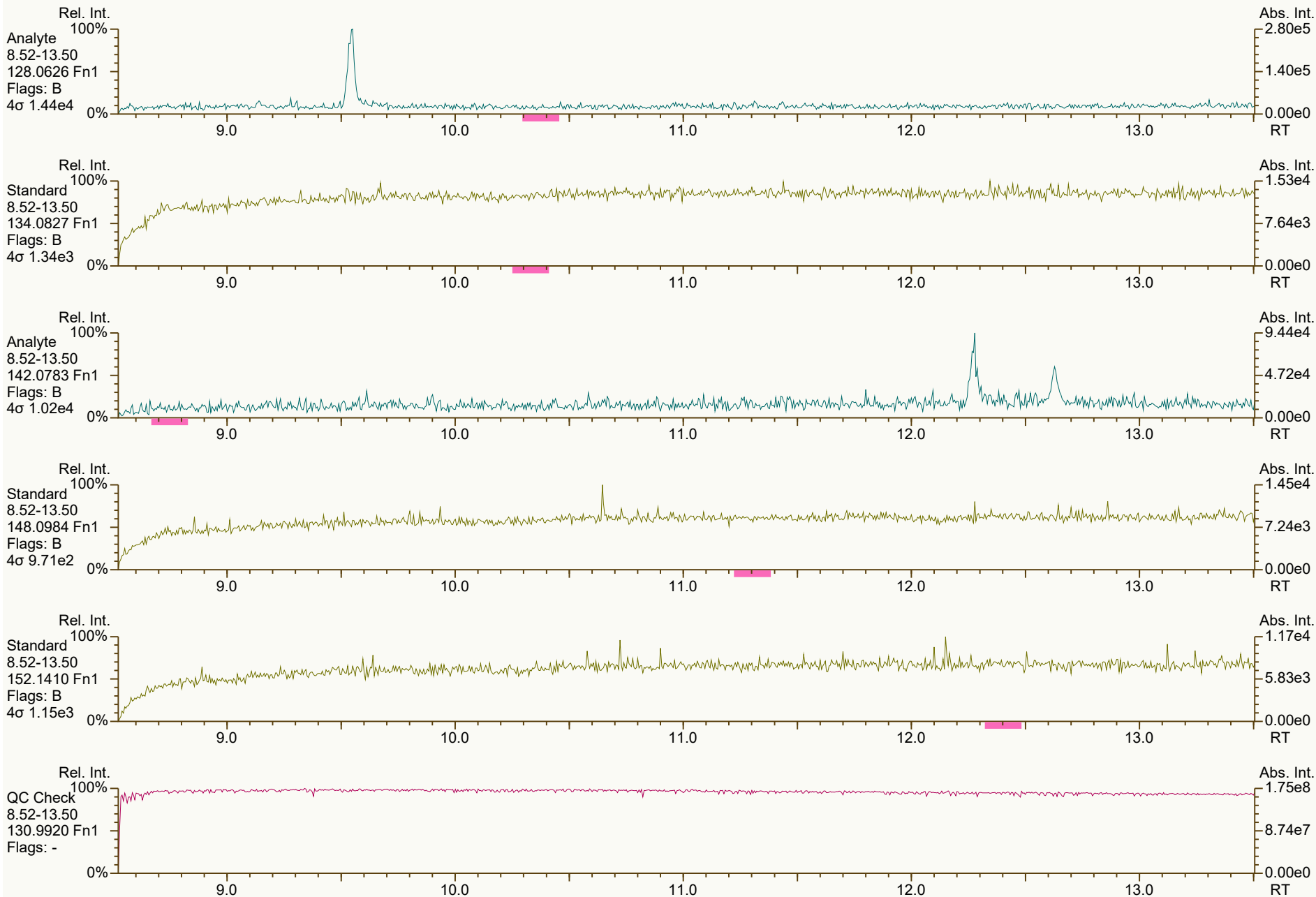
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 scc: 472-191

Peak annotation: Areas, Centroids
PKD: n/a Printed: 06-Mar-2024 15:34 Page 1 of 9

SGS ID: SB_240305_PAH_VD
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 20:47:49
User: DTF Datafile: 240305V11



Results: T:\UltraTracePro\ICAL_results\MM6\MM6_PAH_ICAL_05MAR2024\ICV\SB_240305_PAH_VD.utp_res, saved 06-Mar-2024 14:57 (DTF)
SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 7972, 7893, 6244, 9563, 7073 scc: 472-191

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:57 Printed: 06-Mar-2024 15:34 Page 2 of 9

SGS ID: SB_240305_PAH_VD
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 20:47:49
User: DTF Datafile: 240305V11



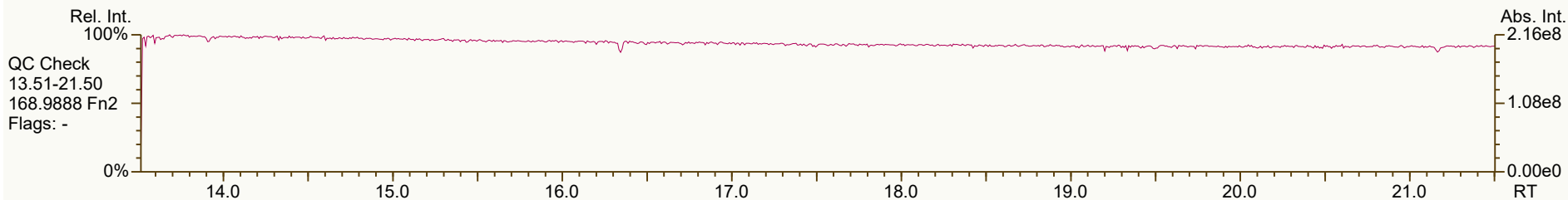
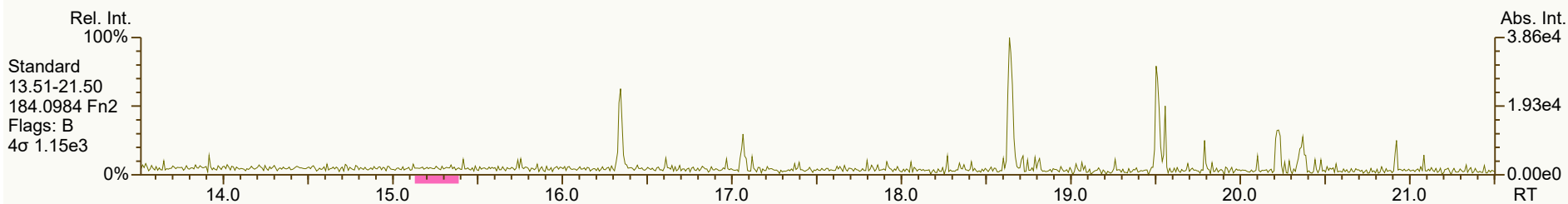
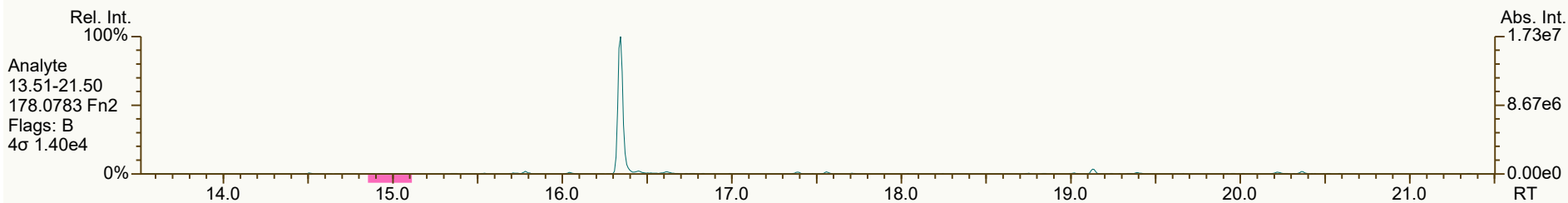
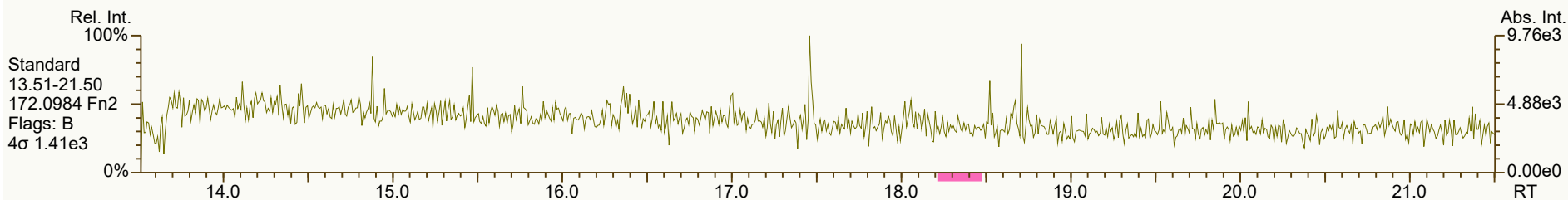
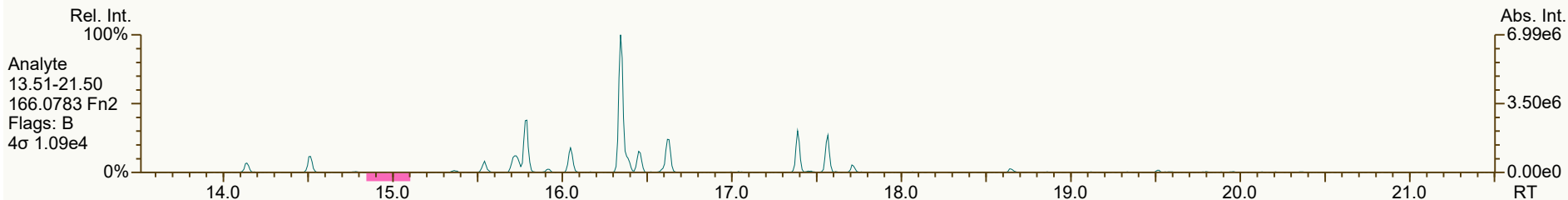
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 4233, 2086, 1152, 4670, 9092 scc: 472-191

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:57 Printed: 06-Mar-2024 15:34 Page 3 of 9

SGS ID: SB_240305_PAH_VD
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 20:47:49
User: DTF Datafile: 240305V11



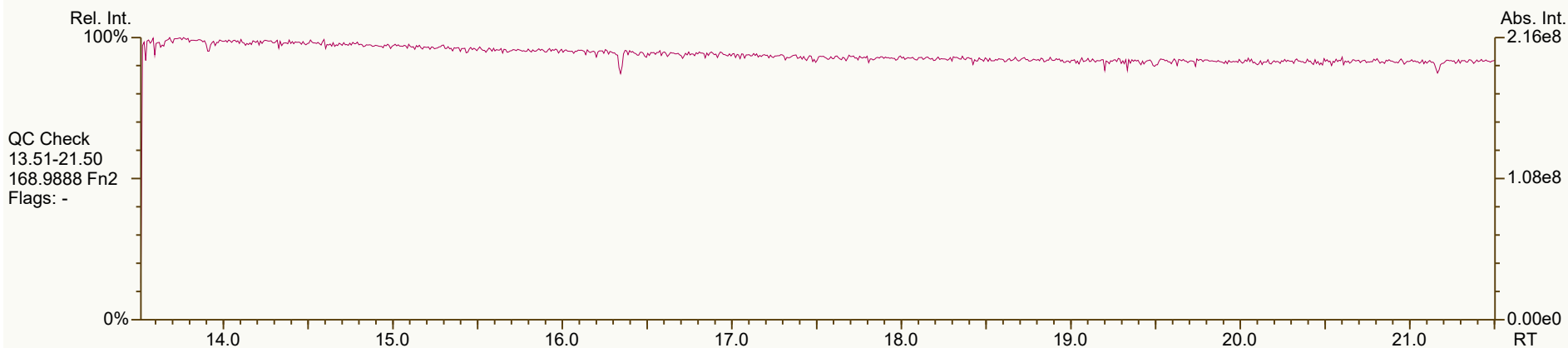
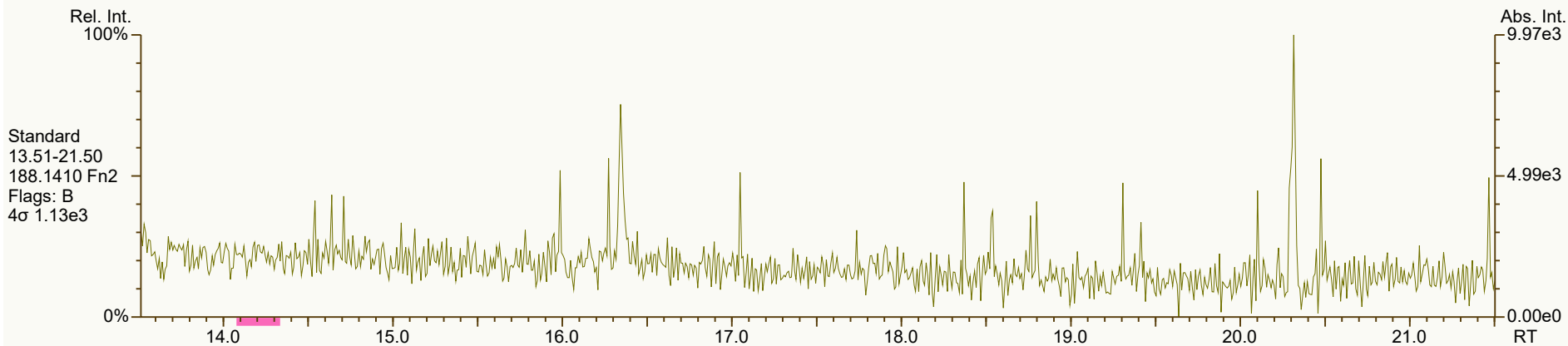
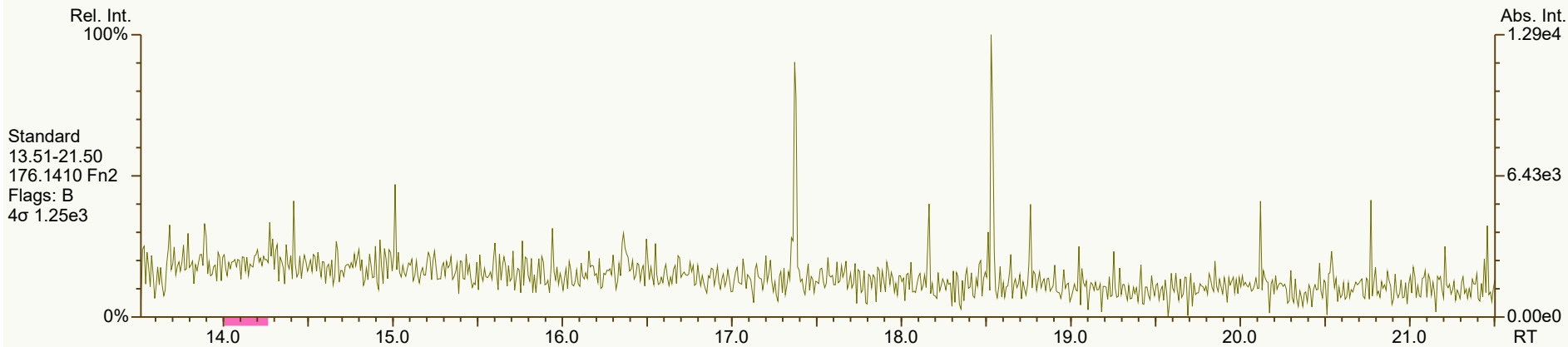
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 0949, 4855, 0553, 9630 scc: 472-191

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:57 Printed: 06-Mar-2024 15:34 Page 4 of 9

SGS ID: SB_240305_PAH_VD
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

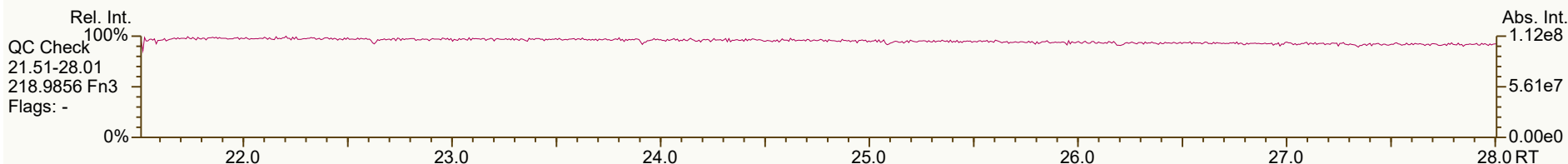
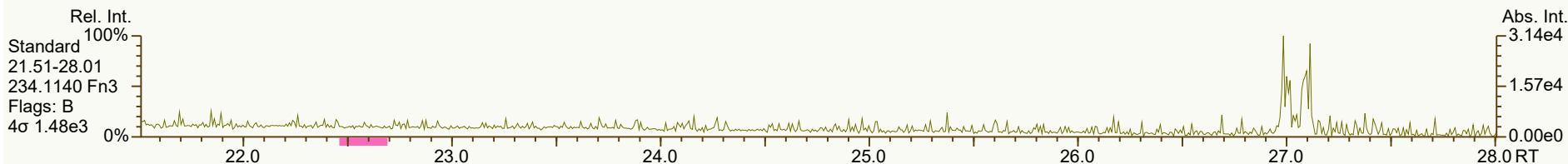
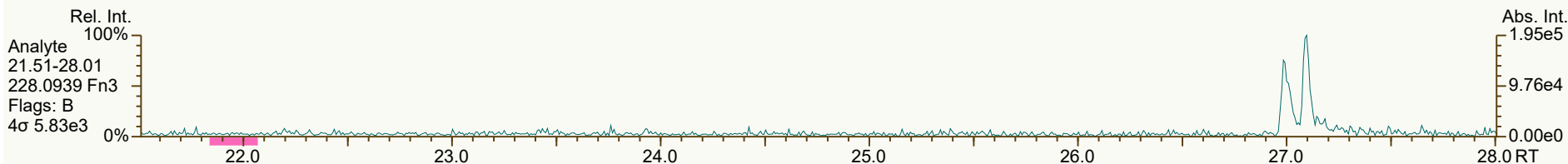
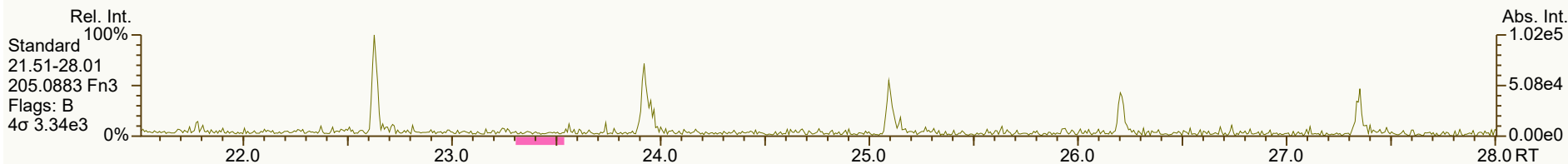
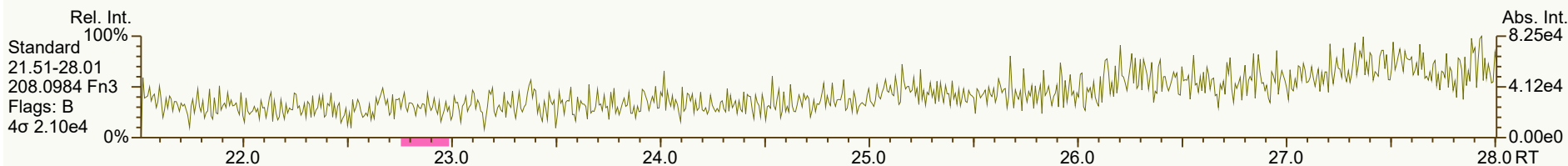
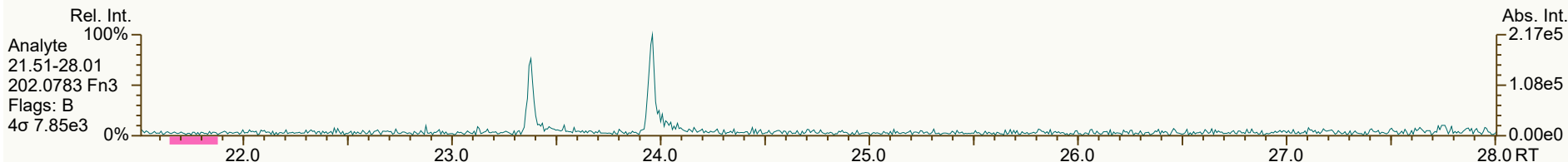
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User: DTF Datafile: 240305V11



SGS ID: SB_240305_PAH_VD
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 20:47:49
User: DTF Datafile: 240305V11



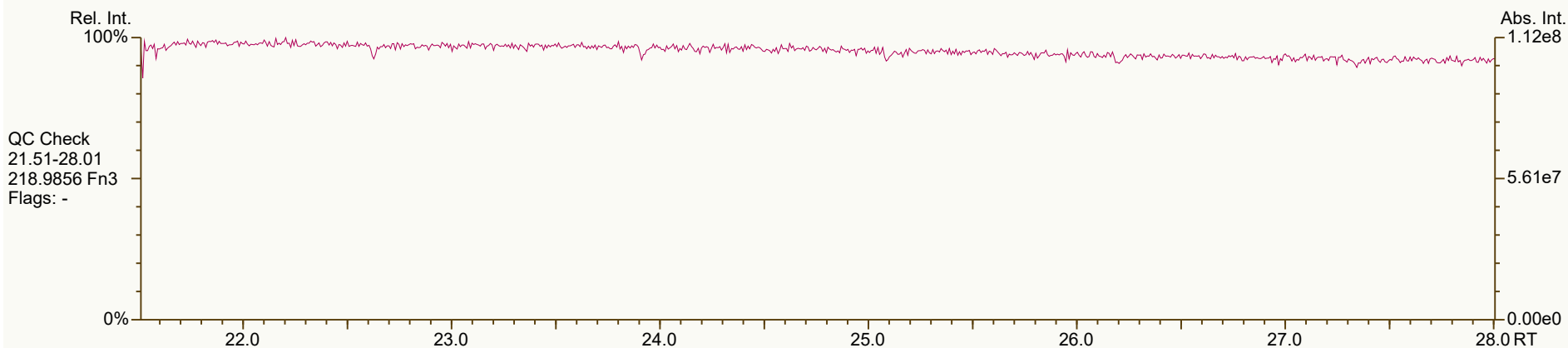
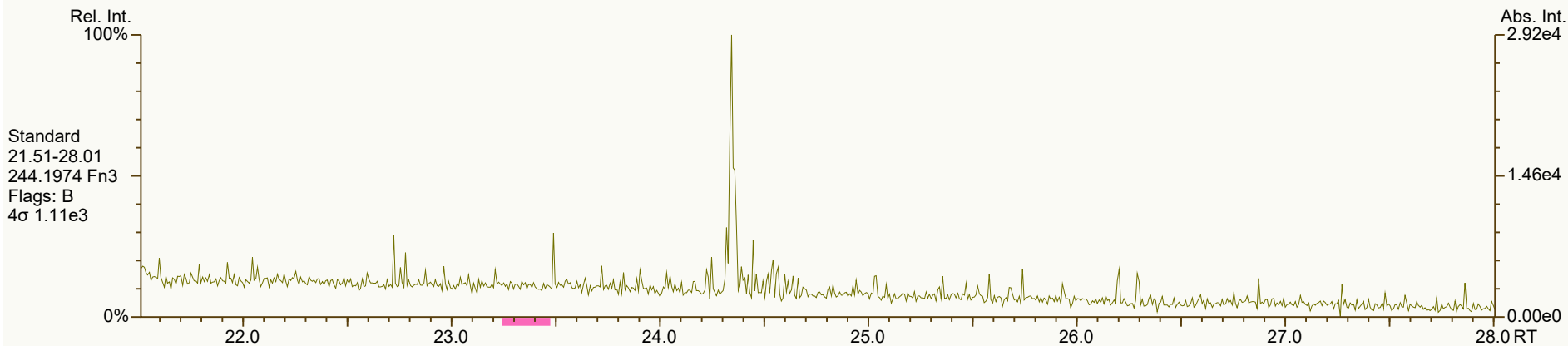
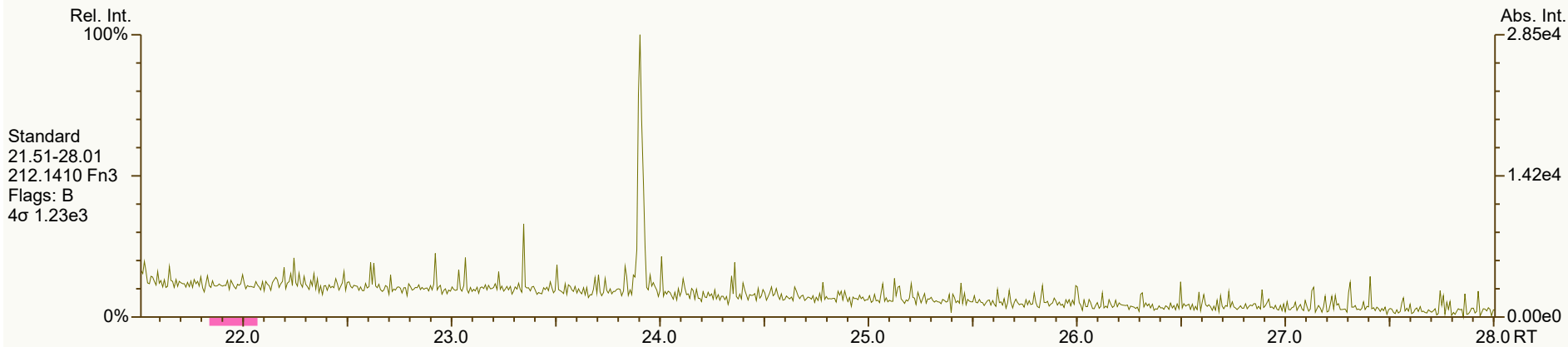
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 3386, 0817, 4272, 1829, 5348 scc: 472-191

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:57 Printed: 06-Mar-2024 15:34 Page 6 of 9

SGS ID: SB_240305_PAH_VD
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

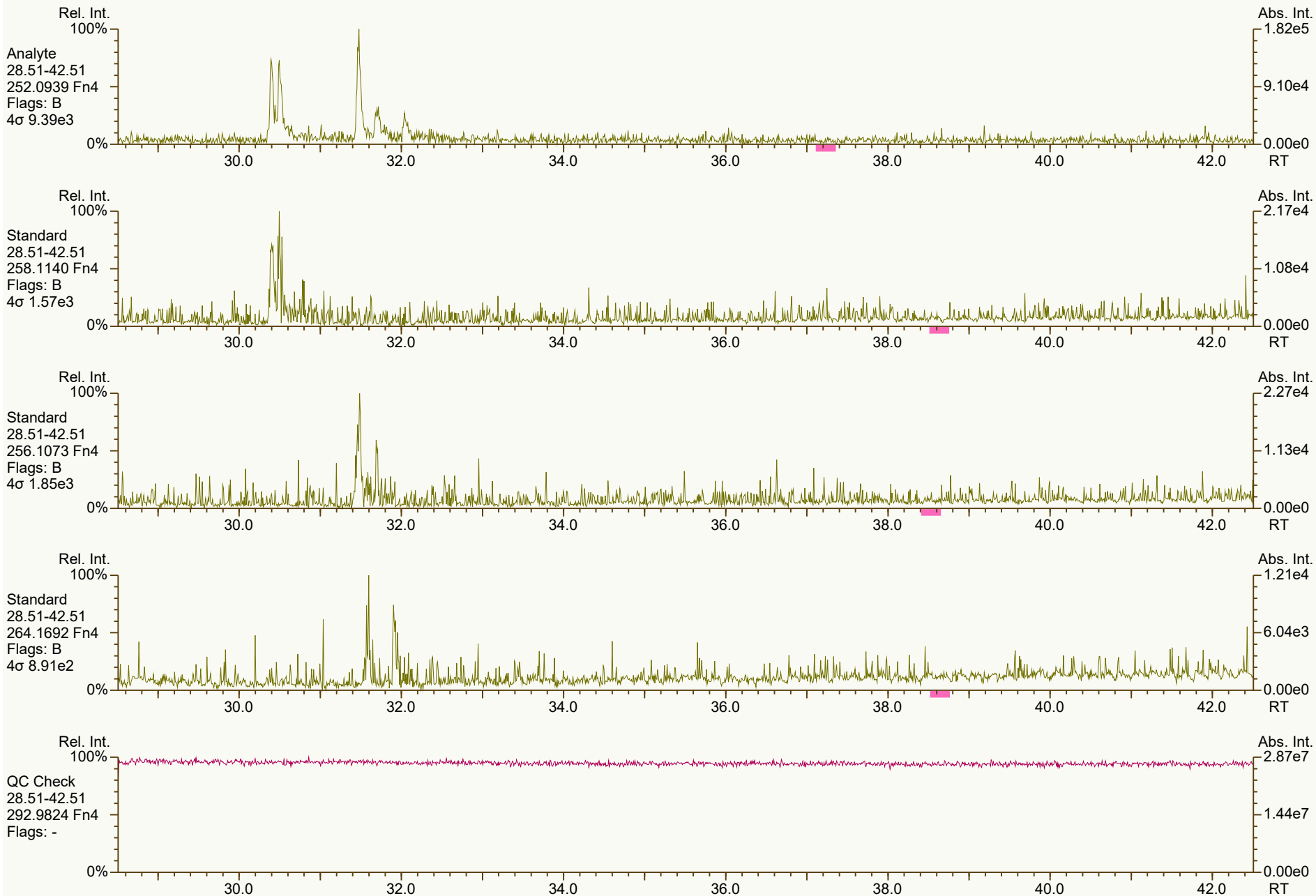
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User: DTF Datafile: 240305V11



SGS ID: SB_240305_PAH_VD
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 20:47:49
User: DTF Datafile: 240305V11



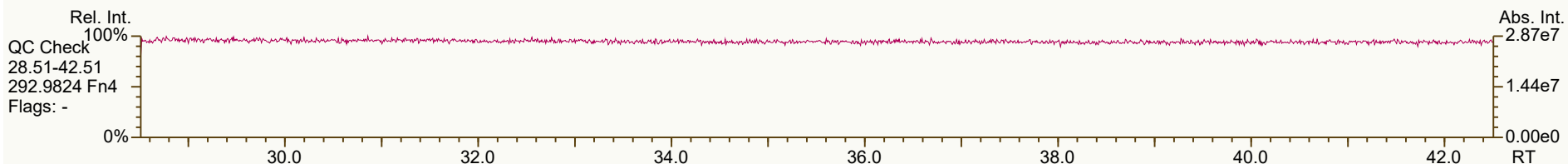
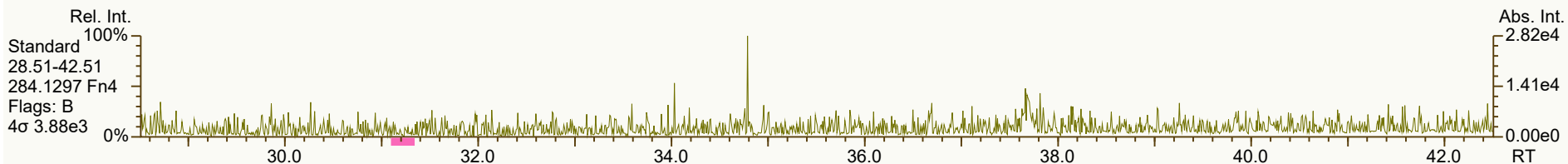
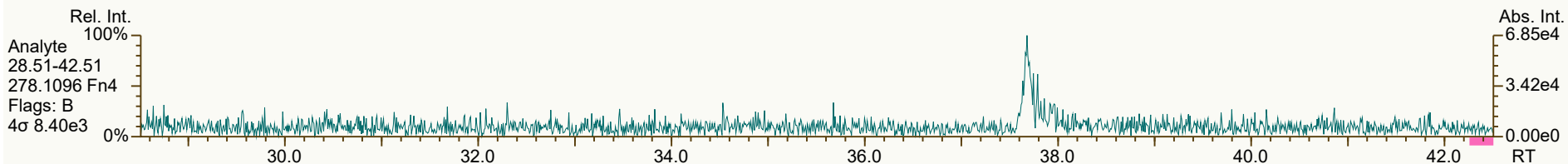
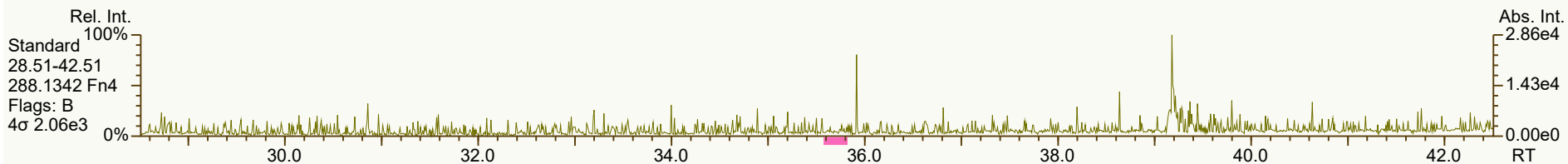
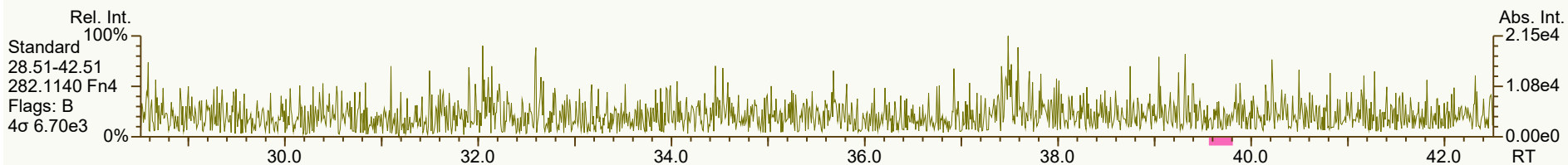
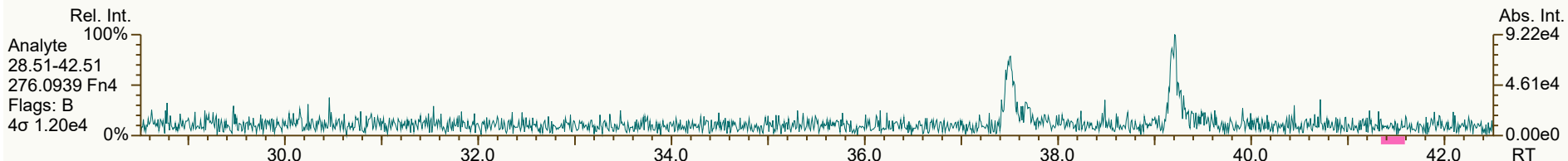
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 1517, 1235, 1003, 3404 scc: 472-191

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:57 Printed: 06-Mar-2024 15:34 Page 8 of 9

SGS ID: SB_240305_PAH_VD
Instr: [ILM] AutoSpec-Premier MM6

Sample ID: Isooctane
VSIR EI+ Expt: pah GC: pah Vial: 4

Acq: 05-Mar-2024 20:47:49
User: DTF Datafile: 240305V11



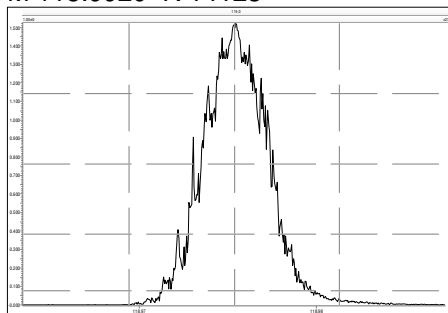
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SGS UltraTrace-Pro V5.12 User/System: DTF/USPF22K616 cc: 4828, 4082, 3962, 7945, 3322 scc: 472-191

Peak annotation: Areas, Centroids
PKD: 06-Mar-2024 14:57 Printed: 06-Mar-2024 15:34 Page 9 of 9

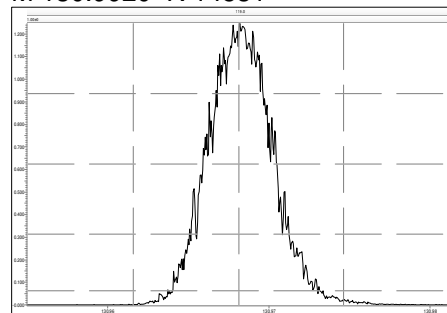
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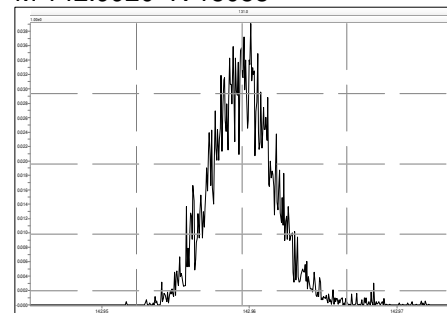
M 118.9920 R 14123



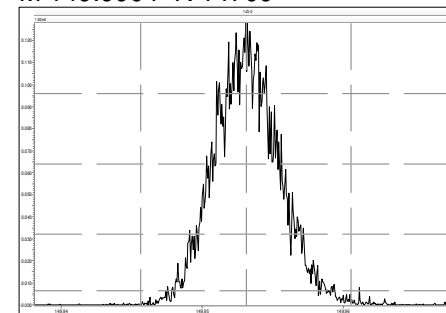
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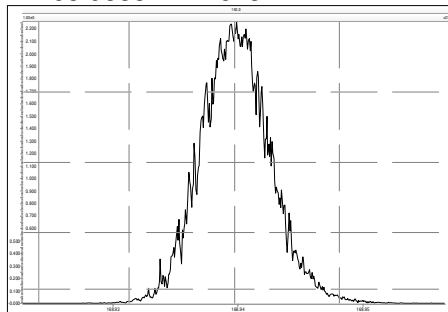
M 142.9920 R 15058



M 149.9904 R 14709



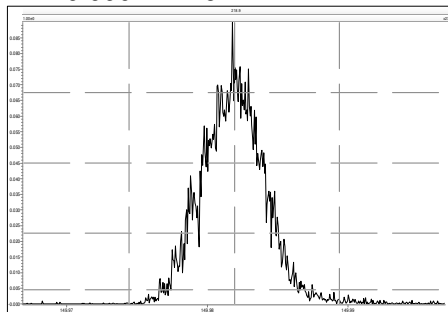
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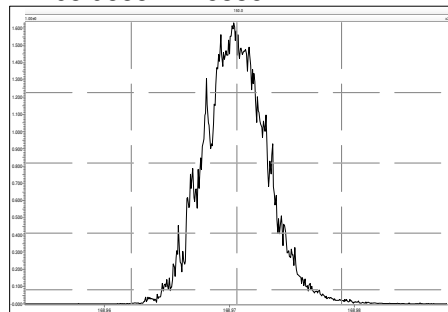
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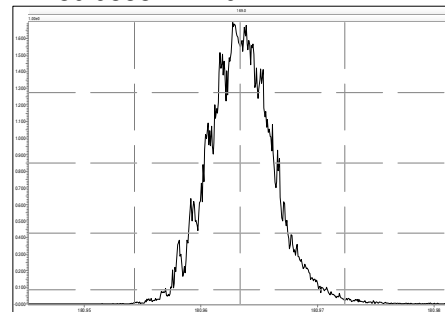
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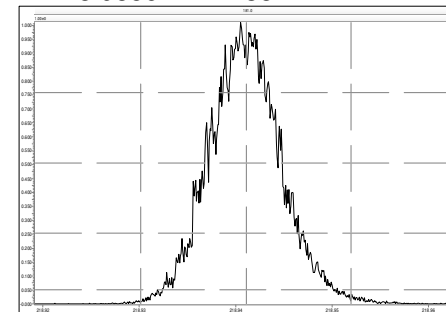
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M 180.9888 R 14044



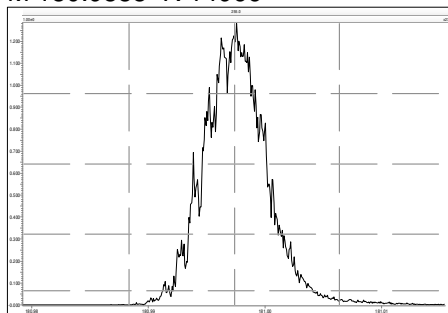
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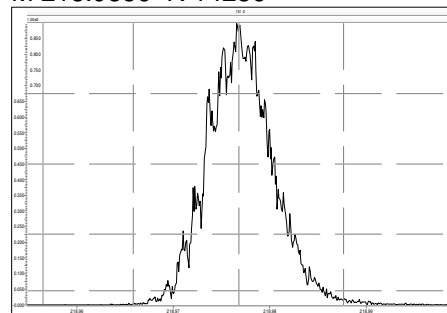
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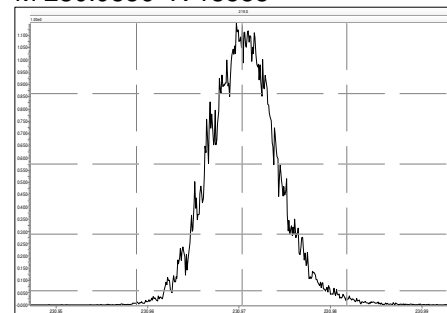
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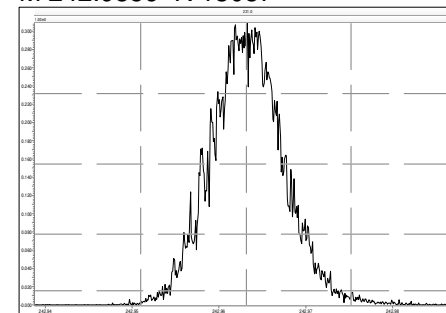
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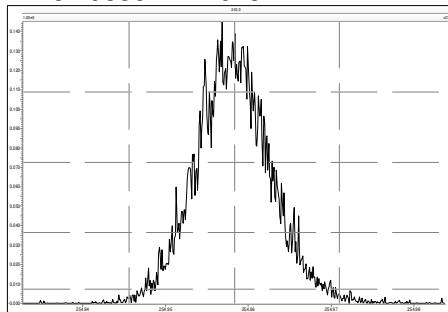
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M 242.9856 R 13087



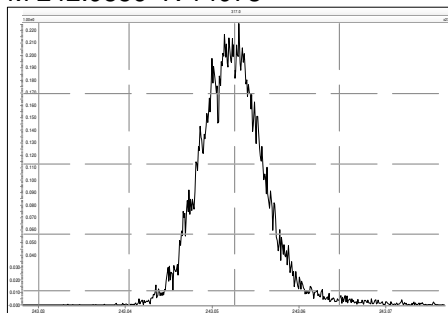
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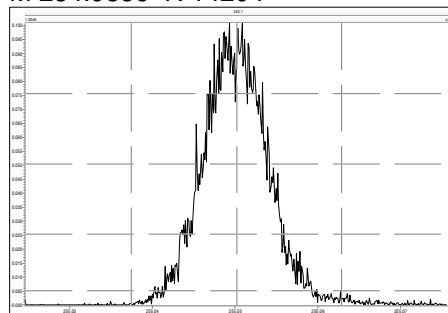
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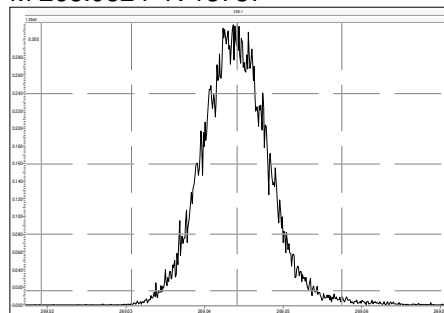
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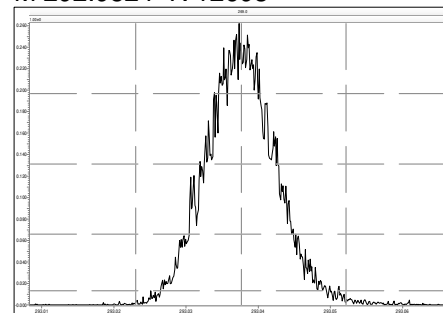
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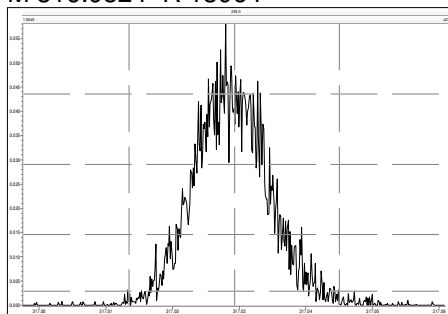
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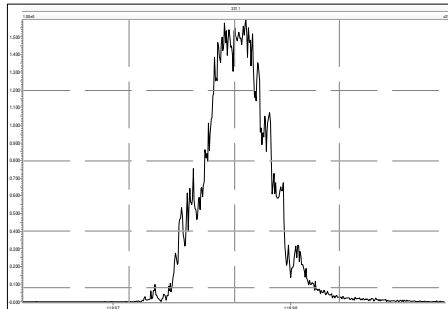


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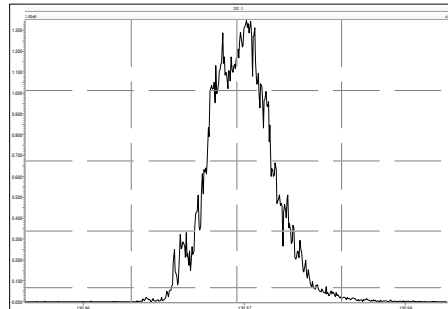


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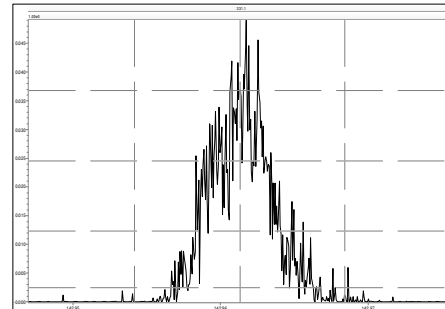
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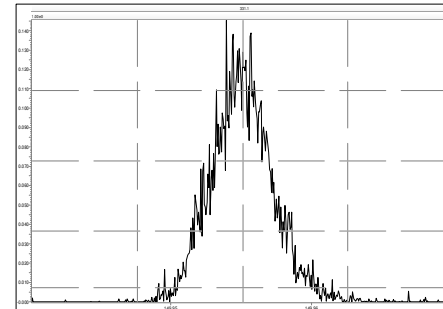
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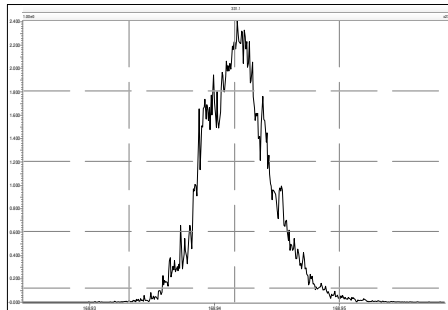
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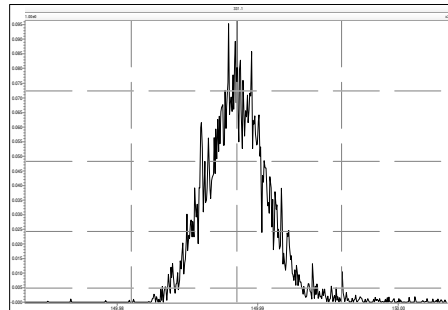
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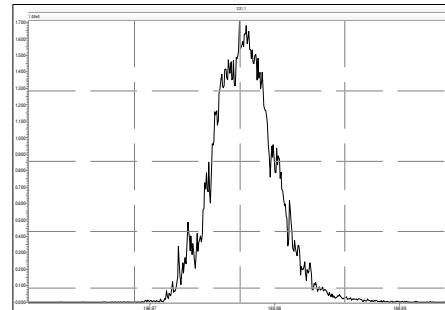
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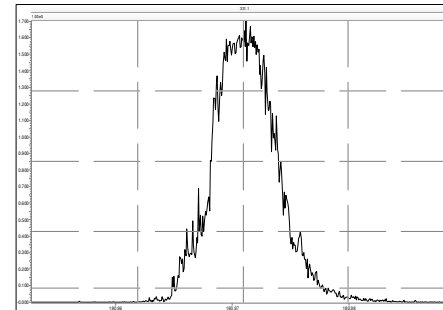
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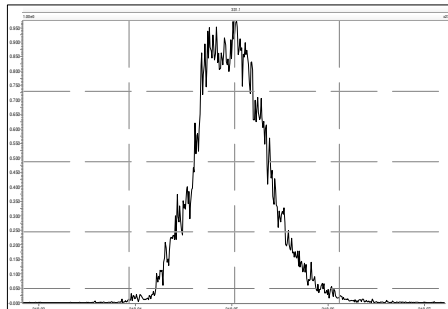
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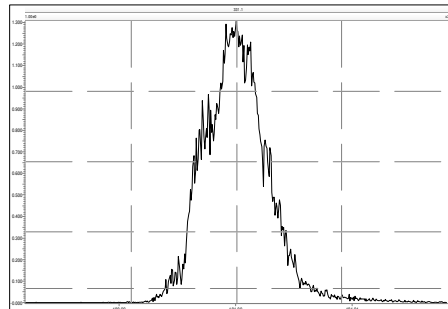
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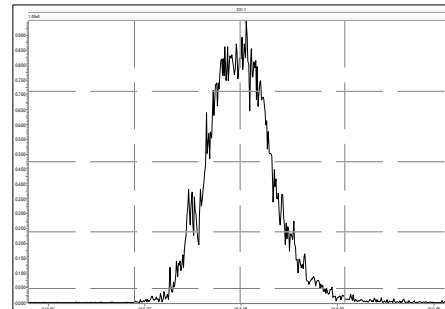
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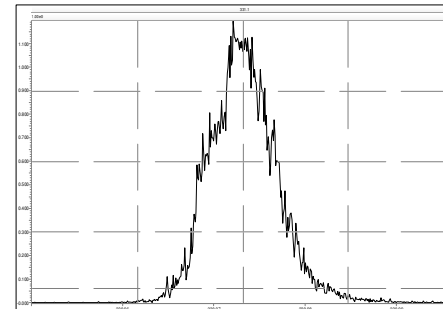
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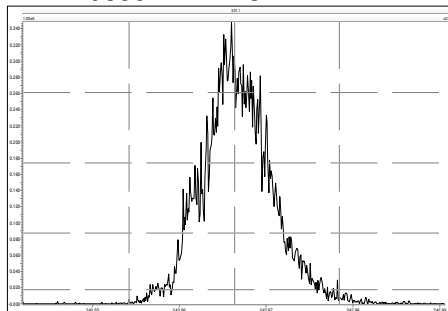


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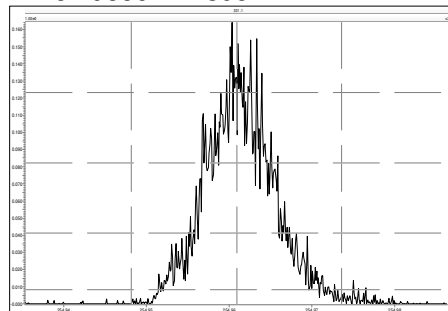


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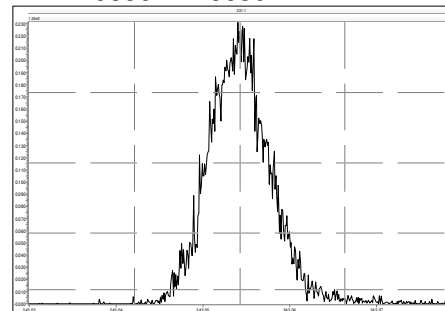
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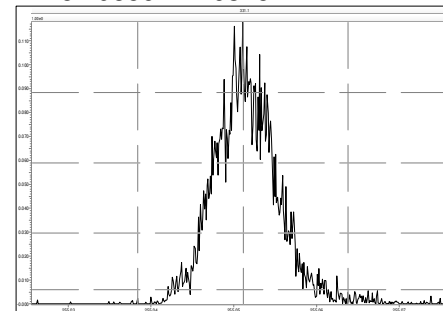
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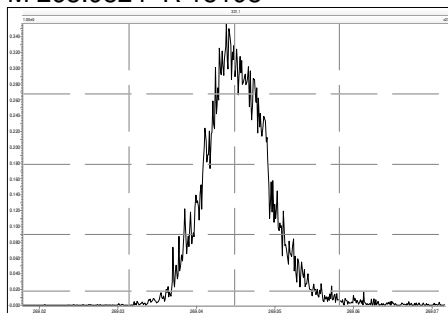
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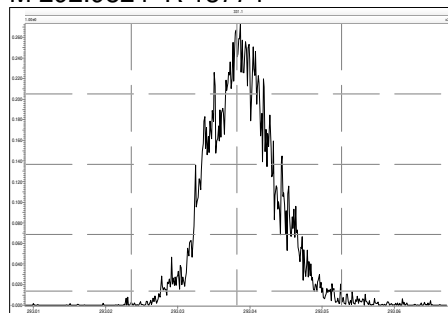
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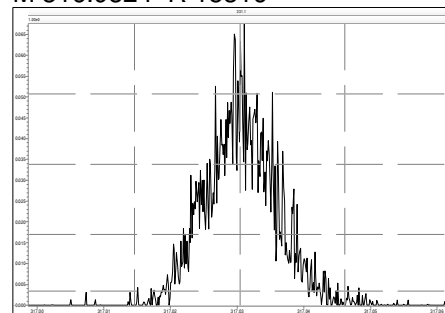
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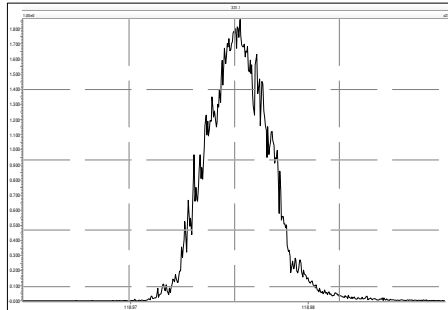


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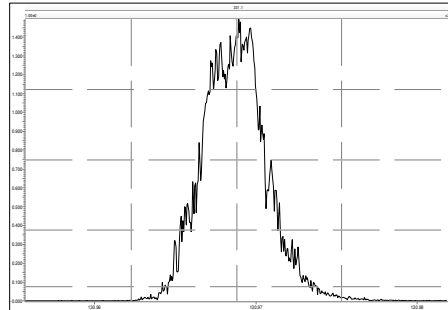


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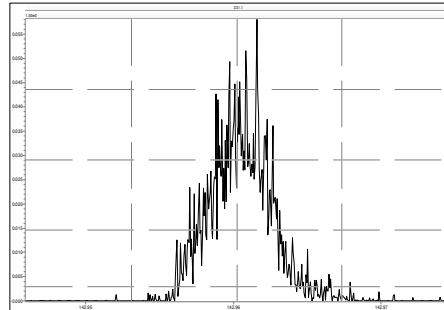
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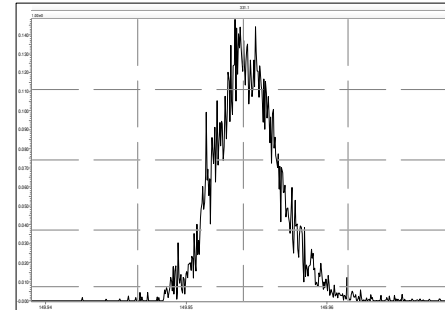
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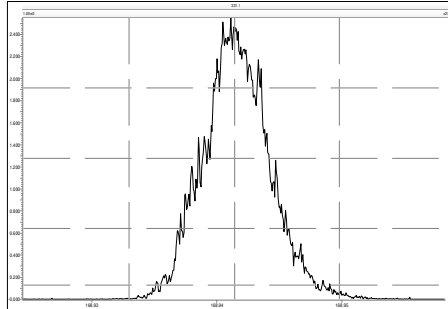
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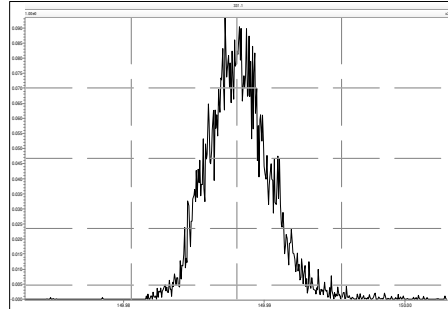
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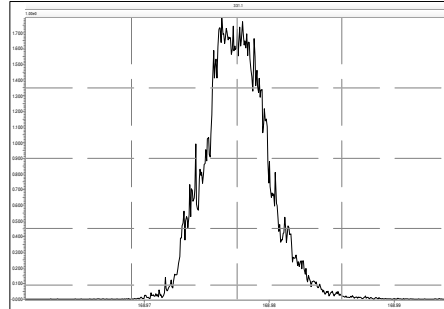
M 168.9888 R 13586



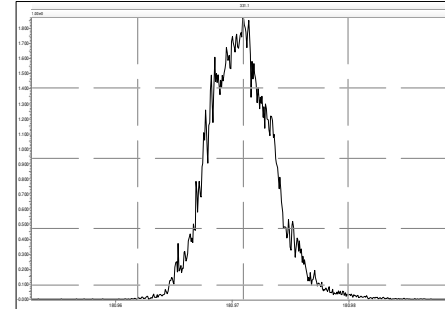
M 149.9904 R 16374



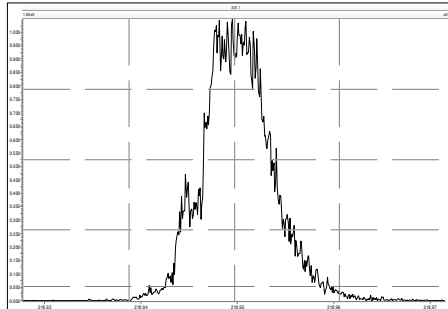
M 168.9888 R 14750



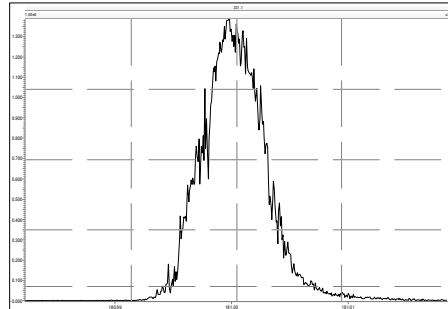
M 180.9888 R 13966



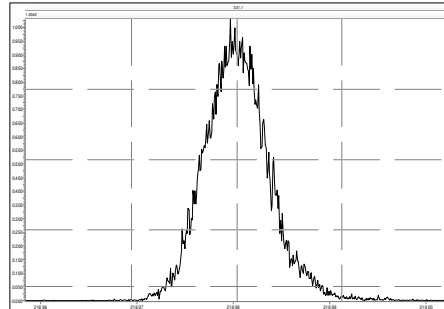
M 218.9856 R 13229



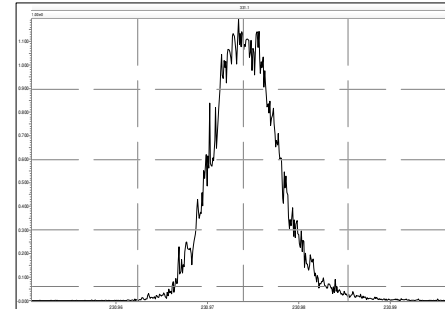
M 180.9888 R 14748



M 218.9856 R 13815

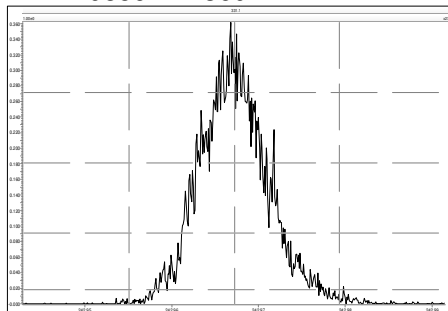


M 230.9856 R 14215

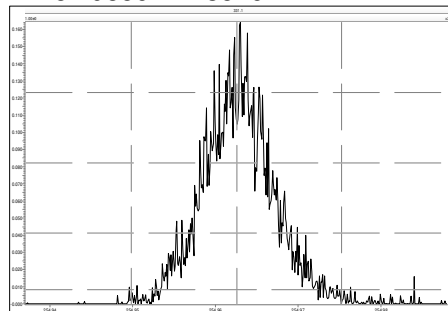


Printed: Tuesday, March 05, 2024 22:22:16 Eastern Standard Time

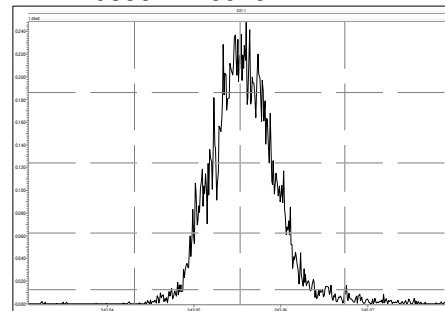
M 242.9856 R 13602



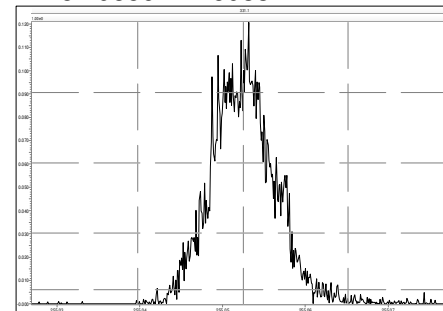
M 254.9856 R 13516



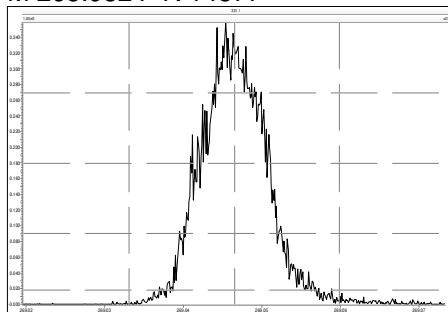
M 242.9856 R 15946



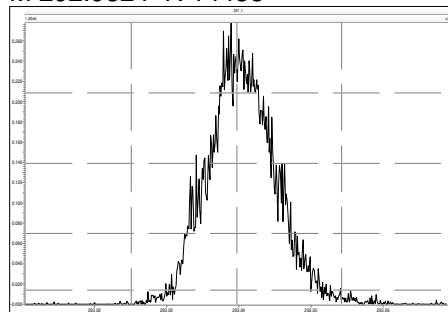
M 254.9856 R 15933



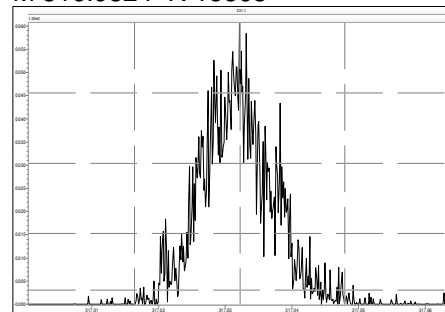
M 268.9824 R 14577



M 292.9824 R 14458



M 316.9824 R 15863



| PCB ICAL Summary | | | SGS North America | | | | Printed: 4 Sep 2024 13:02 | | |
|----------------------------------|------|-----------|-------------------|-----------|-----------|-----------|---------------------------|-----------|--|
| ICAL: MM4-PCB_03SEP2024 | | | 240903S02 | 240903S03 | 240903S04 | 240903S05 | 240903S06 | 240903S08 | |
| Date Acquired: 03 Sep 2024 | | | 0.5 | 1 | 5 | 50 | 400 | 2000 | |
| Date Processed: 4 Sep 2024 13:01 | | | pg/uL | pg/uL | pg/uL | pg/uL | pg/uL | pg/uL | |
| Name | Mean | % RSD | CS0 | CS1 | CS2 | CS3 | CS4 | CS5 | |
| PCB-77 33'44'-TeCB | 1.45 | 9.0% | 1.67 | 1.53 | 1.45 | 1.34 | 1.38 | 1.33 | |
| PCB-81 344'5'-TeCB | 1.46 | *** 11.2% | 1.72 | 1.58 | 1.47 | 1.35 | 1.34 | 1.29 | |
| PCB-105 233'44'-PeCB | 1.18 | 7.5% | 1.32 | 1.25 | 1.17 | 1.14 | 1.13 | 1.08 | |
| PCB-114 2344'5'-PeCB | 1.14 | 5.9% | 1.27 | 1.15 | 1.16 | 1.11 | 1.09 | 1.09 | |
| PCB-118 23'44'5'-PeCB | 1.18 | 6.9% | 1.33 | 1.21 | 1.20 | 1.12 | 1.14 | 1.11 | |
| PCB-123 23'44'5'-PeCB | 1.19 | 7.3% | 1.32 | 1.27 | 1.19 | 1.15 | 1.12 | 1.10 | |
| PCB-126 33'44'5'-PeCB | 1.35 | *** 11.5% | 1.60 | 1.48 | 1.33 | 1.25 | 1.24 | 1.22 | |
| PCB-156/157 ...-HxCB | 1.23 | 6.6% | 1.36 | 1.29 | 1.24 | 1.19 | 1.16 | 1.15 | |
| PCB-167 23'44'55'-HxCB | 1.22 | 8.2% | 1.38 | 1.25 | 1.25 | 1.17 | 1.15 | 1.09 | |
| PCB-169 33'44'55'-HxCB | 1.23 | 6.9% | 1.31 | 1.34 | 1.26 | 1.18 | 1.19 | 1.12 | |
| PCB-189 233'44'55'-HpCB | 1.31 | *** 10.5% | 1.51 | 1.39 | 1.35 | 1.22 | 1.20 | 1.16 | |
| PCB-209 DeCB | 1.08 | 10.0% ✓ | 1.25 | 1.15 | 1.08 | 1.04 | 0.99 | 0.96 | |
| | | | | | | | | | |
| ES PCB-1 | 1.09 | 3.2% | 1.12 | 1.09 | 1.10 | 1.03 | 1.11 | 1.06 | |
| ES PCB-3 | 1.06 | 4.0% | 1.05 | 1.04 | 1.06 | 1.00 | 1.09 | 1.12 | |
| ES PCB-4 | 0.52 | 10.3% | 0.50 | 0.50 | 0.49 | 0.45 | 0.60 | 0.56 | |
| ES PCB-15 | 1.11 | 2.9% | 1.10 | 1.10 | 1.11 | 1.07 | 1.13 | 1.17 | |
| ES PCB-19 | 0.54 | 4.5% | 0.54 | 0.53 | 0.54 | 0.50 | 0.57 | 0.56 | |
| ES PCB-37 | 1.71 | 1.9% | 1.72 | 1.68 | 1.72 | 1.75 | 1.66 | 1.69 | |
| ES PCB-54 | 0.78 | 3.4% | 0.79 | 0.78 | 0.77 | 0.73 | 0.81 | 0.77 | |
| ES PCB-77 | 1.53 | 4.0% | 1.54 | 1.54 | 1.50 | 1.63 | 1.46 | 1.48 | |
| ES PCB-81 | 1.55 | 3.0% | 1.59 | 1.54 | 1.52 | 1.63 | 1.51 | 1.52 | |
| ES PCB-104 | 0.74 | 3.7% | 0.74 | 0.75 | 0.74 | 0.70 | 0.76 | 0.77 | |
| ES PCB-105 | 1.31 | 1.8% | 1.34 | 1.32 | 1.31 | 1.31 | 1.27 | 1.31 | |
| ES PCB-114 | 1.34 | 1.4% | 1.37 | 1.36 | 1.33 | 1.34 | 1.34 | 1.32 | |
| ES PCB-118 | 1.35 | 1.4% | 1.36 | 1.38 | 1.35 | 1.37 | 1.32 | 1.35 | |
| ES PCB-123 | 1.29 | 2.1% | 1.34 | 1.29 | 1.29 | 1.27 | 1.27 | 1.28 | |
| ES PCB-126 | 1.59 | 3.2% | 1.67 | 1.59 | 1.60 | 1.63 | 1.53 | 1.55 | |
| ES PCB-153 | 1.10 | 2.4% | 1.09 | 1.11 | 1.14 | 1.12 | 1.07 | 1.07 | |
| ES PCB-155 | 1.38 | 1.6% | 1.36 | 1.40 | 1.39 | 1.40 | 1.35 | 1.36 | |
| ES PCB-156/157 | 1.62 | 4.8% | 1.70 | 1.66 | 1.65 | 1.66 | 1.53 | 1.51 | |
| ES PCB-167 | 1.70 | 4.3% | 1.74 | 1.76 | 1.71 | 1.78 | 1.60 | 1.62 | |
| ES PCB-169 | 1.55 | 5.5% | 1.63 | 1.60 | 1.57 | 1.63 | 1.43 | 1.47 | |
| ES PCB-170 | 1.06 | 2.0% | 1.04 | 1.05 | 1.08 | 1.06 | 1.09 | 1.04 | |
| ES PCB-180 | 1.30 | 2.1% | 1.27 | 1.28 | 1.34 | 1.29 | 1.33 | 1.29 | |
| ES PCB-188 | 0.63 | 3.7% | 0.59 | 0.62 | 0.66 | 0.62 | 0.64 | 0.63 | |
| ES PCB-189 | 1.71 | 1.5% | 1.72 | 1.69 | 1.74 | 1.73 | 1.70 | 1.67 | |
| ES PCB-202 | 0.96 | 2.4% | 0.95 | 0.96 | 0.97 | 0.99 | 0.94 | 0.93 | |
| ES PCB-205 | 1.23 | 0.5% | 1.24 | 1.23 | 1.24 | 1.24 | 1.24 | 1.22 | |
| ES PCB-206 | 0.84 | 1.6% | 0.84 | 0.82 | 0.86 | 0.83 | 0.85 | 0.85 | |
| ES PCB-208 | 1.25 | 1.8% | 1.23 | 1.23 | 1.29 | 1.25 | 1.27 | 1.24 | |
| ES PCB-209 | 0.94 | 1.5% | 0.94 | 0.92 | 0.96 | 0.94 | 0.95 | 0.93 | |

PCB-81,PCB-126,PCB-189,PCB-188 and PCB 202 do not meet the mean calibration criteria for final version of EPA method M23 in Federal Register (sec 10.2.2.2) or SOP DC 612.0 (sec 8.2.4.1)

PCB-206 - M+4 does not meet the s/n requirement specified in EPA M23 (sec 10.2.2.3) or SOP (DC_612.0; sec 8.2.5) in CS0

PCB-155 - CS0 does not meet the ion abundance ratio criteria specified in EPA M23 (sec 10.2.2.3) ; SOP (DC_612.0; sec 8.2.6) allows a marginal exceedance.

| PCB ICAL Summary | | | SGS North America | | | | Printed: 4 Sep 2024 13:02 | | |
|----------------------------------|------|-------|-------------------|-----------|-----------|-----------|---------------------------|-----------|------|
| ICAL: MM4-PCB_03SEP2024 | | | 240903S02 | 240903S03 | 240903S04 | 240903S05 | 240903S06 | 240903S08 | |
| Date Acquired: 03 Sep 2024 | | | 0.5 | 1 | 5 | 50 | 400 | 2000 | |
| Date Processed: 4 Sep 2024 13:01 | | | pg/uL | pg/uL | pg/uL | pg/uL | pg/uL | pg/uL | |
| Name | Mean | % RSD | CS0 | CS1 | CS2 | CS3 | CS4 | CS5 | |
| SS PCB-28 | 1.01 | 3.8% | 1.05 | 1.01 | 1.01 | 1.07 | 0.99 | 0.96 | |
| SS PCB-111 | 0.97 | 3.9% | 0.98 | 0.96 | 0.95 | 1.03 | 0.92 | 0.97 | |
| SS PCB-178 | 0.74 | 5.0% | 0.80 | 0.74 | 0.73 | 0.75 | 0.69 | 0.72 | |
| | | | | | | | | | |
| CS PCB-28 | 1.73 | 5.5% | 1.80 | 1.70 | 1.73 | 1.88 | 1.65 | 1.63 | |
| CS PCB-111 | 1.25 | 4.6% | 1.32 | 1.24 | 1.22 | 1.31 | 1.17 | 1.24 | |
| CS PCB-178 | 0.46 | 3.3% | 0.47 | 0.46 | 0.48 | 0.47 | 0.44 | 0.45 | |
| | | | | | | | | | |
| PCB-1 2-MoCB | 1.47 | 9.8% | 1.54 | 1.73 | 1.43 | 1.42 | 1.38 | 1.34 | |
| PCB-3 4-MoCB | 1.45 | 8.6% | 1.66 | 1.54 | 1.43 | 1.40 | 1.37 | 1.31 | |
| PCB-4 22'-DiCB | 1.30 | 7.3% | 1.36 | 1.44 | 1.30 | 1.27 | 1.20 | 1.20 | |
| PCB-15 44'-DiCB | 1.31 | 9.0% | 1.50 | 1.41 | 1.27 | 1.24 | 1.24 | 1.20 | |
| PCB-19 22'6-TrCB | 1.16 | 6.6% | 1.30 | 1.18 | 1.17 | 1.12 | 1.11 | 1.09 | |
| PCB-37 344'-TrCB | 1.43 | 8.2% | 1.64 | 1.48 | 1.44 | 1.35 | 1.36 | 1.32 | |
| PCB-54 22'66'-TeCB | 1.52 | 6.2% | 1.63 | 1.59 | 1.58 | 1.49 | 1.44 | 1.39 | |
| PCB-104 22'466'-PeCB | 1.46 | 8.5% | 1.65 | 1.55 | 1.47 | 1.41 | 1.36 | 1.32 | |
| PCB-153/168 ...-HxCB | | - | - | - | - | - | - | - | |
| PCB-155 22'44'66'-HxCB | 1.36 | 7.8% | 1.49 | 1.46 | 1.40 | 1.29 | 1.27 | 1.23 | |
| PCB-170 22'33'44'5-HpCB | | - | - | - | - | - | - | - | |
| PCB-180/193 ...-HpCB | | - | - | - | - | - | - | - | |
| PCB-188 22'34'566'-HpCB | 1.55 | *** | 11.5% | 1.86 | 1.56 | 1.55 | 1.55 | 1.41 | 1.34 |
| PCB-202 22'33'55'66'-OcCB | 1.32 | *** | 10.6% | 1.55 | 1.40 | 1.33 | 1.27 | 1.20 | 1.17 |
| PCB-205 233'44'55'6-OcCB | 1.12 | | 8.9% | 1.28 | 1.17 | 1.12 | 1.07 | 1.05 | 1.01 |
| PCB-208 22'33'455'66'-NoCB | 1.11 | | 8.8% | 1.24 | 1.21 | 1.09 | 1.07 | 1.03 | 1.00 |
| PCB-206 22'33'44'55'6-NoCB | 1.04 | | 9.3% | 1.13 | 1.13 | 1.07 | 1.04 | 0.96 | 0.89 |
| | | | | | | | | | |
| FS PCB-8 | 0.90 | | 4.5% | 0.93 | 0.88 | 0.89 | 0.96 | 0.88 | 0.85 |
| FS PCB-31 | 1.03 | | 4.6% | 1.03 | 1.01 | 1.01 | 1.11 | 1.05 | 0.97 |
| FS PCB-60 | 0.87 | | 3.5% | 0.86 | 0.84 | 0.87 | 0.93 | 0.86 | 0.85 |
| FS PCB-85 | 0.68 | | 4.0% | 0.67 | 0.67 | 0.66 | 0.74 | 0.67 | 0.68 |
| FS PCB-128 | 0.66 | | 4.0% | 0.67 | 0.64 | 0.63 | 0.70 | 0.68 | 0.66 |
| FS PCB-182 | 0.90 | | 3.8% | 0.88 | 0.88 | 0.86 | 0.96 | 0.90 | 0.90 |
| | | | | | | | | | |
| AS PCB-32 | 0.77 | | 3.6% | 0.79 | 0.75 | 0.74 | 0.75 | 0.80 | 0.79 |
| AS PCB-97 | 0.86 | | 3.3% | 0.90 | 0.85 | 0.83 | 0.90 | 0.84 | 0.87 |
| AS PCB-150 NR - CL 04Sep24 | 1.57 | | 4.1% | 1.62 | 1.59 | 1.58 | 1.66 | 1.50 | 1.50 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |



5500 Business Drive
Wilmington, NC 28405

Departure from Standard Policies and Procedures

Initiated by: Richard Ballard

Date Initiated: 9/5/24

Laboratory Project ID: MM4-PCB-04SEP2024 (MM4 ICAL)

Sample IDs effected: All projects ran on MM4

Reason for Departure
from Standard Policy or

Procedure: PCB 81, 126, 189, 188, 202 do not meet M23
criteria for mean RRF for Method (see 10.2.2.2) or
SOP(DC-612.0, sec 8.2.4.1).
PCB-206 does not meet signal to noise criteria in the CSO M23(10.2.2.3)
or SOP(DC-612.0, sec 8.2.5)

Describe (in detail) the
alternative steps that will
be taken:

Will use ICAL with documentation that
those particular PCBs do not meet M23 requirements.

Customer contacted: ☐ Yes
☒ No

Date contacted: _____

Client contact: _____

Authorized by Technical
Manager:

Jay Dehman

Date Authorized: 9-5-2024

Authorized by QA Officer/
Coordinator:

[Signature]

Date Authorized: 9/5/24

☐ Supporting Data (if available) attached

narration on Final Report

Instrument: MM4 (AutoSpec-Ultima)

MS Experiment: pcb-2016

GC Program: pcb90_FI

| # | Datafile | Vial# | Lab ID | Wt/Vol | Client/Sample ID | Analyst(s) | Checkcode | Acq Date | Acq Time |
|---|-----------|-------|-------------------|--------|---|------------|-----------|-------------|----------|
| 0 | 240903S01 | 2 | SB_240903_PCB_SA | 1.00 | Nonane | RAB | 522-558 | 03-Sep-2024 | 11:51:45 |
| 2 | 240903S02 | 85 | CS0_240903_PCB_SA | 1.00 | ICAL SIL 27-92-1 SIL-27-59-3 | RAB | 163-822 | 03-Sep-2024 | 13:05:11 |
| 3 | 240903S03 | 86 | CS1_240903_PCB_SA | 1.00 | ICAL SIL 27-59-2 CL 04Sep24 | RAB | 264-967 | 03-Sep-2024 | 14:16:14 |
| 4 | 240903S04 | 87 | CS2_240903_PCB_SA | 1.00 | ICAL SIL 27-59-1 | RAB | 815-850 | 03-Sep-2024 | 15:25:28 |
| 5 | 240903S05 | 88 | CS3_240903_PCB_SA | 1.00 | ICAL SIL 27-92-1 | RAB | 776-728 | 03-Sep-2024 | 16:44:07 |
| 6 | 240903S06 | 89 | CS4_240903_PCB_SA | 1.00 | ICAL SIL 27-47-2 | RAB | 884-834 | 03-Sep-2024 | 17:41:22 |
| 7 | 240903S07 | 2 | SB_240903_PCB_SC | 1.00 | Nonane | RAB | 757-835 | 03-Sep-2024 | 18:38:36 |
| 8 | 240903S08 | 90 | CS5_240903_PCB_SA | 1.00 | ICAL SIL 27-47-1 | RAB | 264-113 | 03-Sep-2024 | 19:37:07 |

target analytes in SB injected prior to CS0

PCB-126 slight shift in retention throughout run - window setting partially clipping peak

mean RRF's inconsistent with historical values

REVIEWED

Richard Ballard , 9/4/2024, 1:26:38 PM

| PCB ICAL Concentrations | | SGS Environmental Services | | | | |
|-----------------------------|---------------|----------------------------|--------------|--------------|--------------|--------------|
| Individual Native Standards | Concentration | | | | | |
| | CS0 pg/uL | CS1 pg/uL | CS2 pg/uL | CS3 pg/uL | CS4 pg/uL | CS5 pg/uL |
| PCB-1 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-3 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-4 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-15 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-19 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-37 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-54 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-77 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-81 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-104 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-105 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-114 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-118 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-123 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-126 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-155 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-156 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-157 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-167 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-169 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-188 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-189 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-202 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-205 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-206 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-208 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| PCB-209 | 0.5 | 1 | 5 | 50 | 400 | 2000 |
| Extraction Standards | | | | | | |
| ES PCB-1 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-3 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-4 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-15 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-19 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-37 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-54 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-77 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-81 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-104 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-105 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-114 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-118 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-123 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-126 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-155 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-156 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-157 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-167 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-169 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-188 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-189 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-202 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-205 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-206 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-208 | 100 | 100 | 100 | 100 | 100 | 100 |
| ES PCB-209 | 100 | 100 | 100 | 100 | 100 | 100 |
| Cleanup/Sampling Standards | | | | | | |
| CS PCB-28 | 100 | 100.0 | 100 | 100 | 100 | 100 |
| CS PCB-111 | 100 | 100 | 100 | 100 | 100 | 100 |
| CS PCB-178 | 100 | 100 | 100 | 100 | 100 | 100 |
| Injection Standards | | | | | | |
| JS PCB-9 | 100 | 100 | 100 | 100 | 100 | 100 |
| JS PCB-52 | 100 | 100 | 100 | 100 | 100 | 100 |
| JS PCB-101 | 100 | 100 | 100 | 100 | 100 | 100 |
| JS PCB-138 | 100 | 100 | 100 | 100 | 100 | 100 |
| JS PCB-194 | 100 | 100 | 100 | 100 | 100 | 100 |

Analyte

| Compound | Standard |
|--------------------------|-----------|
| PCB-1 2-MoCB | ES PCB-1 |
| PCB-2 3-MoCB | ES PCB-3 |
| PCB-3 4-MoCB | ES PCB-3 |
| PCB-4 22'-DiCB | ES PCB-4 |
| PCB-10 26-DiCB | ES PCB-4 |
| PCB-9 25-DiCB | ES PCB-15 |
| PCB-7 24-DiCB | ES PCB-15 |
| PCB-6 23'-DiCB | ES PCB-15 |
| PCB-5 23-DiCB | ES PCB-15 |
| PCB-8 24'-DiCB | ES PCB-15 |
| PCB-14 35-DiCB | ES PCB-15 |
| PCB-11 33'-DiCB | ES PCB-15 |
| PCB-13/12 34'/34-DiCB | ES PCB-15 |
| PCB-15 44'-DiCB | ES PCB-15 |
| PCB-19 22'-TrCB | ES PCB-19 |
| PCB-30/18 246/22'5-TrCB | ES PCB-19 |
| PCB-17 22'4-TrCB | ES PCB-19 |
| PCB-27 23'-TrCB | ES PCB-19 |
| PCB-24 236-TrCB | ES PCB-19 |
| PCB-16 22'3-TrCB | ES PCB-19 |
| PCB-32 24'6-TrCB | ES PCB-19 |
| PCB-34 23'5'-TrCB | ES PCB-37 |
| PCB-23 235-TrCB | ES PCB-37 |
| PCB-26/29 23'5/245-TrCB | ES PCB-37 |
| PCB-25 23'4-TrCB | ES PCB-37 |
| PCB-31 24'5-TrCB | ES PCB-37 |
| PCB-28/20 244'/233'-TrCB | ES PCB-37 |
| PCB-21/33 234/23'4'-TrCB | ES PCB-37 |
| PCB-22 234'-TrCB | ES PCB-37 |
| PCB-36 33'5-TrCB | ES PCB-37 |
| PCB-39 34'5-TrCB | ES PCB-37 |
| PCB-38 345-TrCB | ES PCB-37 |
| PCB-35 33'4-TrCB | ES PCB-37 |
| PCB-37 344'-TrCB | ES PCB-37 |
| PCB-54 22'66'-TeCB | ES PCB-54 |
| PCB-77 33'44'-TeCB | ES PCB-77 |

| Compound | Standard |
|------------------------------|------------|
| PCB-50/53 22'46/22'56'-TeCE | ES PCB-81 |
| PCB-45 22'36'-TeCB | ES PCB-81 |
| PCB-51 22'46'-TeCB | ES PCB-81 |
| PCB-46 22'36'-TeCB | ES PCB-81 |
| PCB-52 22'55'-TeCB | ES PCB-81 |
| PCB-73 23'5'6'-TeCB | ES PCB-81 |
| PCB-43 22'35'-TeCB | ES PCB-81 |
| PCB-69/49 23'46/22'45'-TeCE | ES PCB-81 |
| PCB-48 22'45'-TeCB | ES PCB-81 |
| PCB-44/47/65 ...-TeCB | ES PCB-81 |
| PCB-59/62/75 ...-TeCB | ES PCB-81 |
| PCB-42 22'34'-TeCB | ES PCB-81 |
| PCB-41 22'34'-TeCB | ES PCB-81 |
| PCB-71/40 23'4'6/22'33'-TeCB | ES PCB-81 |
| PCB-64 234'6'-TeCB | ES PCB-81 |
| PCB-72 23'55'-TeCB | ES PCB-81 |
| PCB-68 23'45'-TeCB | ES PCB-81 |
| PCB-57 233'5'-TeCB | ES PCB-81 |
| PCB-58 233'5'-TeCB | ES PCB-81 |
| PCB-67 23'45'-TeCB | ES PCB-81 |
| PCB-63 234'5'-TeCB | ES PCB-81 |
| PCB-61/70/74/76 ...-TeCB | ES PCB-81 |
| PCB-66 23'44'-TeCB | ES PCB-81 |
| PCB-55 233'4'-TeCB | ES PCB-81 |
| PCB-56 233'4'-TeCB | ES PCB-81 |
| PCB-60 2344'-TeCB | ES PCB-81 |
| PCB-80 33'55'-TeCB | ES PCB-81 |
| PCB-79 33'45'-TeCB | ES PCB-81 |
| PCB-78 33'45'-TeCB | ES PCB-81 |
| PCB-81 344'5'-TeCB | ES PCB-81 |
| PCB-104 22'466'-PeCB | ES PCB-104 |
| PCB-96 22'366'-PeCB | ES PCB-104 |
| PCB-105 233'44'-PeCB | ES PCB-105 |
| PCB-127 33'455'-PeCB | ES PCB-105 |
| PCB-114 2344'5'-PeCB | ES PCB-114 |
| PCB-122 233'4'5'-PeCB | ES PCB-114 |

| Compound | Standard |
|------------------------------|------------|
| PCB-118 23'44'5'-PeCB | ES PCB-118 |
| PCB-103 22'45'6'-PeCB | ES PCB-123 |
| PCB-94 22'356'-PeCB | ES PCB-123 |
| PCB-95 22'35'6'-PeCB | ES PCB-123 |
| PCB-100/93 22'44'6/22'356'-P | ES PCB-123 |
| PCB-102 22'456'-PeCB | ES PCB-123 |
| PCB-98 22'34'6'-PeCB | ES PCB-123 |
| PCB-88 22'346'-PeCB | ES PCB-123 |
| PCB-91 22'34'6'-PeCB | ES PCB-123 |
| PCB-84 22'33'6'-PeCB | ES PCB-123 |
| PCB-89 22'346'-PeCB | ES PCB-123 |
| PCB-121 23'45'6'-PeCB | ES PCB-123 |
| PCB-92 22'355'-PeCB | ES PCB-123 |
| PCB-113/90/101 ...-PeCB | ES PCB-123 |
| PCB-83 22'33'5'-PeCB | ES PCB-123 |
| PCB-99 22'44'5'-PeCB | ES PCB-123 |
| PCB-112 233'56'-PeCB | ES PCB-123 |
| PCB-108/119/86/97/125....-Pe | ES PCB-123 |
| PCB-117 234'56'-PeCB | ES PCB-123 |
| PCB-116/85 23456/22'344'-P | ES PCB-123 |
| PCB-110 233'4'6'-PeCB | ES PCB-123 |
| PCB-115 2344'6'-PeCB | ES PCB-123 |
| PCB-82 22'33'4'-PeCB | ES PCB-123 |
| PCB-111 233'55'-PeCB | ES PCB-123 |
| PCB-120 23'455'-PeCB | ES PCB-123 |
| PCB-107/124 ...-PeCB | ES PCB-123 |
| PCB-109 233'46'-PeCB | ES PCB-123 |
| PCB-106 233'45'-PeCB | ES PCB-123 |
| PCB-123 23'44'5'-PeCB | ES PCB-123 |
| PCB-126 33'44'5'-PeCB | ES PCB-126 |
| PCB-155 22'44'66'-HxCB | ES PCB-155 |
| PCB-152 22'3566'-HxCB | ES PCB-155 |
| PCB-150 22'34'66'-HxCB | ES PCB-155 |
| PCB-136 22'33'66'-HxCB | ES PCB-155 |
| PCB-145 22'3466'-HxCB | ES PCB-155 |

| Compound | Standard |
|--------------------------|----------------|
| PCB-148 22'34'56'-HxCB | ES PCB-153 |
| PCB-151/135 ...-HxCB | ES PCB-153 |
| PCB-154 22'44'56'-HxCB | ES PCB-153 |
| PCB-144 22'345'6'-HxCB | ES PCB-153 |
| PCB-147/149 ...-HxCB | ES PCB-153 |
| PCB-134 22'33'56'-HxCB | ES PCB-153 |
| PCB-143 22'3456'-HxCB | ES PCB-153 |
| PCB-139/140 ...-HxCB | ES PCB-153 |
| PCB-131 22'33'46'-HxCB | ES PCB-153 |
| PCB-142 22'3456'-HxCB | ES PCB-153 |
| PCB-132 22'33'46'-HxCB | ES PCB-153 |
| PCB-133 22'33'55'-HxCB | ES PCB-153 |
| PCB-165 233'55'6'-HxCB | ES PCB-153 |
| PCB-146 22'34'55'-HxCB | ES PCB-153 |
| PCB-161 233'45'6'-HxCB | ES PCB-153 |
| PCB-153/168 ...-HxCB | ES PCB-153 |
| PCB-141 22'3455'-HxCB | ES PCB-153 |
| PCB-130 22'33'45'-HxCB | ES PCB-153 |
| PCB-137 22'344'5'-HxCB | ES PCB-153 |
| PCB-164 233'4'5'6'-HxCB | ES PCB-153 |
| PCB-163/138/129 ...-HxCB | ES PCB-153 |
| PCB-160 233'456'-HxCB | ES PCB-153 |
| PCB-158 233'44'6'-HxCB | ES PCB-153 |
| PCB-156/157 ...-HxCB | ES PCB-156/157 |
| PCB-167 23'44'55'-HxCB | ES PCB-167 |
| PCB-128/166 ...-HxCB | ES PCB-167 |
| PCB-159 233'455'-HxCB | ES PCB-167 |
| PCB-162 233'4'55'-HxCB | ES PCB-167 |
| PCB-169 33'44'55'-HxCB | ES PCB-169 |
| PCB-188 22'34'566'-HpCB | ES PCB-188 |
| PCB-179 22'33'566'-HpCB | ES PCB-188 |
| PCB-184 22'344'66'-HpCB | ES PCB-188 |
| PCB-176 22'33'466'-HpCB | ES PCB-188 |
| PCB-186 22'34566'-HpCB | ES PCB-188 |
| PCB-178 22'33'55'6'-HpCB | ES PCB-188 |

| Compound | Standard |
|-----------------------------|------------|
| PCB-175 22'33'45'6'-HpCB | ES PCB-180 |
| PCB-187 22'34'55'6'-HpCB | ES PCB-180 |
| PCB-182 22'344'56'-HpCB | ES PCB-180 |
| PCB-183 22'344'5'6'-HpCB | ES PCB-180 |
| PCB-185 22'3455'6'-HpCB | ES PCB-180 |
| PCB-174 22'33'456'-HpCB | ES PCB-180 |
| PCB-177 22'33'45'6'-HpCB | ES PCB-180 |
| PCB-181 22'344'56'-HpCB | ES PCB-180 |
| PCB-171/173 ...-HpCB | ES PCB-180 |
| PCB-172 22'33'455'-HpCB | ES PCB-180 |
| PCB-192 233'455'6'-HpCB | ES PCB-180 |
| PCB-180/193 ...-HpCB | ES PCB-180 |
| PCB-191 233'44'5'6'-HpCB | ES PCB-180 |
| PCB-170 22'33'44'5'-HpCB | ES PCB-170 |
| PCB-190 233'44'56'-HpCB | ES PCB-170 |
| PCB-189 233'44'55'-HpCB | ES PCB-189 |
| PCB-202 22'33'55'66'-OcCB | ES PCB-202 |
| PCB-201 22'33'45'66'-OcCB | ES PCB-202 |
| PCB-204 22'344'566'-OcCB | ES PCB-202 |
| PCB-197 22'33'44'66'-OcCB | ES PCB-202 |
| PCB-200 22'33'4566'-OcCB | ES PCB-202 |
| PCB-198/199 ...-OcCB | ES PCB-202 |
| PCB-196 22'33'44'56'-OcCB | ES PCB-202 |
| PCB-203 22'344'55'6'-OcCB | ES PCB-202 |
| PCB-195 22'33'44'56'-OcCB | ES PCB-205 |
| PCB-194 22'33'44'55'-OcCB | ES PCB-205 |
| PCB-205 233'44'55'6'-OcCB | ES PCB-205 |
| PCB-208 22'33'455'66'-NoCB | ES PCB-208 |
| PCB-207 22'33'44'566'-NoCB | ES PCB-208 |
| PCB-206 22'33'44'55'6'-NoCB | ES PCB-206 |
| PCB-209 DeCB | ES PCB-209 |

Label

| Compound | Standard |
|----------|----------|
|----------|----------|

| | |
|-----------|----------|
| ES PCB-1 | JS PCB-9 |
| ES PCB-3 | JS PCB-9 |
| ES PCB-4 | JS PCB-9 |
| ES PCB-15 | JS PCB-9 |
| ES PCB-19 | JS PCB-9 |

| | |
|-----------|-----------|
| ES PCB-37 | JS PCB-52 |
| ES PCB-54 | JS PCB-52 |
| ES PCB-77 | JS PCB-52 |
| ES PCB-81 | JS PCB-52 |

| | |
|------------|------------|
| ES PCB-104 | JS PCB-101 |
| ES PCB-105 | JS PCB-101 |
| ES PCB-114 | JS PCB-101 |
| ES PCB-118 | JS PCB-101 |
| ES PCB-123 | JS PCB-101 |
| ES PCB-126 | JS PCB-101 |

| | |
|----------------|------------|
| ES PCB-153 | JS PCB-138 |
| ES PCB-155 | JS PCB-138 |
| ES PCB-156/157 | JS PCB-138 |
| ES PCB-167 | JS PCB-138 |
| ES PCB-169 | JS PCB-138 |
| ES PCB-188 | JS PCB-138 |
| ES PCB-202 | JS PCB-138 |

| | |
|------------|------------|
| ES PCB-170 | JS PCB-194 |
| ES PCB-180 | JS PCB-194 |
| ES PCB-189 | JS PCB-194 |
| ES PCB-205 | JS PCB-194 |
| ES PCB-206 | JS PCB-194 |
| ES PCB-208 | JS PCB-194 |
| ES PCB-209 | JS PCB-194 |

| | |
|------------|------------|
| SS PCB-28 | ES PCB-37 |
| SS PCB-111 | ES PCB-123 |
| SS PCB-178 | ES PCB-188 |

| | |
|------------|------------|
| CS PCB-28 | JS PCB-52 |
| CS PCB-111 | JS PCB-101 |
| CS PCB-178 | JS PCB-138 |

| Compound | Standard |
|----------|----------|
|----------|----------|

| | |
|------------|------------|
| FS PCB-8 | ES PCB-15 |
| FS PCB-31 | ES PCB-37 |
| FS PCB-60 | ES PCB-81 |
| FS PCB-85 | ES PCB-123 |
| FS PCB-128 | ES PCB-167 |
| FS PCB-182 | ES PCB-180 |

| Compound | Standard |
|----------|----------|
|----------|----------|

| | |
|------------|--|
| JS PCB-9 | |
| JS PCB-52 | |
| JS PCB-101 | |
| JS PCB-138 | |
| JS PCB-194 | |

PCB QC Summary

SGS North America

Printed: 4-Sep-2024 13:02

Lab ID: CS0_240903_PCB_SA
 Acquired: 3-Sep-24 13:05:11
 Datafile: 240903S02

ICAL: MM4-PCB_03SEP2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-------------------------|-------|----------|--------|------|------|-------|
| PCB-77 33'44'-TeCB | 32.47 | 1.45E+06 | 0.79 Y | 1.45 | 1.67 | 15.0% |
| PCB-81 344'5'-TeCB | 31.98 | 1.54E+06 | 0.79 Y | 1.46 | 1.72 | 17.7% |
| PCB-105 233'44'-PeCB | 35.44 | 8.86E+05 | 0.64 Y | 1.18 | 1.32 | 12.1% |
| PCB-114 2344'5'-PeCB | 34.89 | 8.63E+05 | 0.64 Y | 1.14 | 1.27 | 10.6% |
| PCB-118 23'44'5'-PeCB | 34.43 | 8.96E+05 | 0.64 Y | 1.18 | 1.33 | 12.1% |
| PCB-123 23'44'5'-PeCB | 34.15 | 8.82E+05 | 0.58 Y | 1.19 | 1.32 | 10.7% |
| PCB-126 33'44'5'-PeCB | 38.05 | 1.33E+06 | 0.66 Y | 1.35 | 1.60 | 18.5% |
| PCB-156/157 ...-HxCB | 40.59 | 1.74E+06 | 1.24 Y | 1.23 | 1.36 | 10.4% |
| PCB-167 23'44'55'-HxCB | 39.60 | 8.99E+05 | 1.20 Y | 1.22 | 1.38 | 13.3% |
| PCB-169 33'44'55'-HxCB | 43.30 | 8.04E+05 | 1.39 Y | 1.23 | 1.31 | 6.5% |
| PCB-189 233'44'55'-HpCB | 45.42 | 1.01E+06 | 1.07 Y | 1.31 | 1.51 | 16.0% |
| PCB-209 DeCB | 51.27 | 4.56E+05 | 1.19 Y | 1.08 | 1.25 | 16.2% |
| | | | | | | |
| ES PCB-1 | 11.66 | 2.72E+08 | 3.19 Y | 1.09 | 1.12 | 3.5% |
| ES PCB-3 | 13.92 | 2.55E+08 | 3.22 Y | 1.06 | 1.05 | -0.7% |
| ES PCB-4 | 14.17 | 1.22E+08 | 1.56 Y | 0.52 | 0.50 | -2.7% |
| ES PCB-15 | 19.84 | 2.65E+08 | 1.53 Y | 1.11 | 1.10 | -1.5% |
| ES PCB-19 | 17.23 | 1.30E+08 | 1.04 Y | 0.54 | 0.54 | -0.3% |
| ES PCB-37 | 26.14 | 1.95E+08 | 1.04 Y | 1.71 | 1.72 | 1.0% |
| ES PCB-54 | 20.12 | 8.98E+07 | 0.80 Y | 0.78 | 0.79 | 2.1% |
| ES PCB-77 | 32.45 | 1.74E+08 | 0.68 Y | 1.53 | 1.54 | 1.0% |
| ES PCB-81 | 31.97 | 1.80E+08 | 0.69 Y | 1.55 | 1.59 | 2.5% |
| ES PCB-104 | 25.05 | 7.33E+07 | 1.52 Y | 0.74 | 0.74 | -1.1% |
| ES PCB-105 | 35.42 | 1.34E+08 | 1.52 Y | 1.31 | 1.34 | 2.6% |
| ES PCB-114 | 34.87 | 1.36E+08 | 1.56 Y | 1.34 | 1.37 | 1.8% |
| ES PCB-118 | 34.40 | 1.35E+08 | 1.49 Y | 1.35 | 1.36 | 0.2% |
| ES PCB-123 | 34.13 | 1.34E+08 | 1.51 Y | 1.29 | 1.34 | 4.1% |
| ES PCB-126 | 38.03 | 1.66E+08 | 1.40 Y | 1.59 | 1.67 | 4.7% |
| ES PCB-153 | 35.98 | 8.18E+07 | 1.20 Y | 1.10 | 1.09 | -1.0% |
| ES PCB-155 | 29.97 | 1.02E+08 | 1.18 Y | 1.38 | 1.36 | -1.0% |
| ES PCB-156/157 | 40.57 | 2.56E+08 | 1.09 Y | 1.62 | 1.70 | 5.1% |
| ES PCB-167 | 39.58 | 1.31E+08 | 1.08 Y | 1.70 | 1.74 | 2.2% |
| ES PCB-169 | 43.28 | 1.22E+08 | 1.12 Y | 1.55 | 1.63 | 4.8% |
| ES PCB-170 | 42.79 | 8.05E+07 | 0.98 Y | 1.06 | 1.04 | -1.7% |
| ES PCB-180 | 41.72 | 9.82E+07 | 1.00 Y | 1.30 | 1.27 | -2.4% |
| ES PCB-188 | 34.84 | 4.45E+07 | 1.03 Y | 0.63 | 0.59 | -5.4% |
| ES PCB-189 | 45.40 | 1.33E+08 | 0.91 Y | 1.71 | 1.72 | 0.5% |
| ES PCB-202 | 39.38 | 7.16E+07 | 0.88 Y | 0.96 | 0.95 | -0.4% |
| ES PCB-205 | 47.64 | 9.57E+07 | 0.87 Y | 1.23 | 1.24 | 0.3% |
| ES PCB-206 | 49.40 | 6.48E+07 | 0.76 Y | 0.84 | 0.84 | -0.5% |
| ES PCB-208 | 44.99 | 9.55E+07 | 0.78 Y | 1.25 | 1.23 | -1.5% |
| ES PCB-209 | 51.24 | 7.30E+07 | 1.17 Y | 0.94 | 0.94 | 0.1% |

PCB QC Summary

SGS North America

Printed: 4-Sep-2024 13:02

Lab ID: CS0_240903_PCB_SA
 Acquired: 3-Sep-24 13:05:11
 Datafile: 240903S02

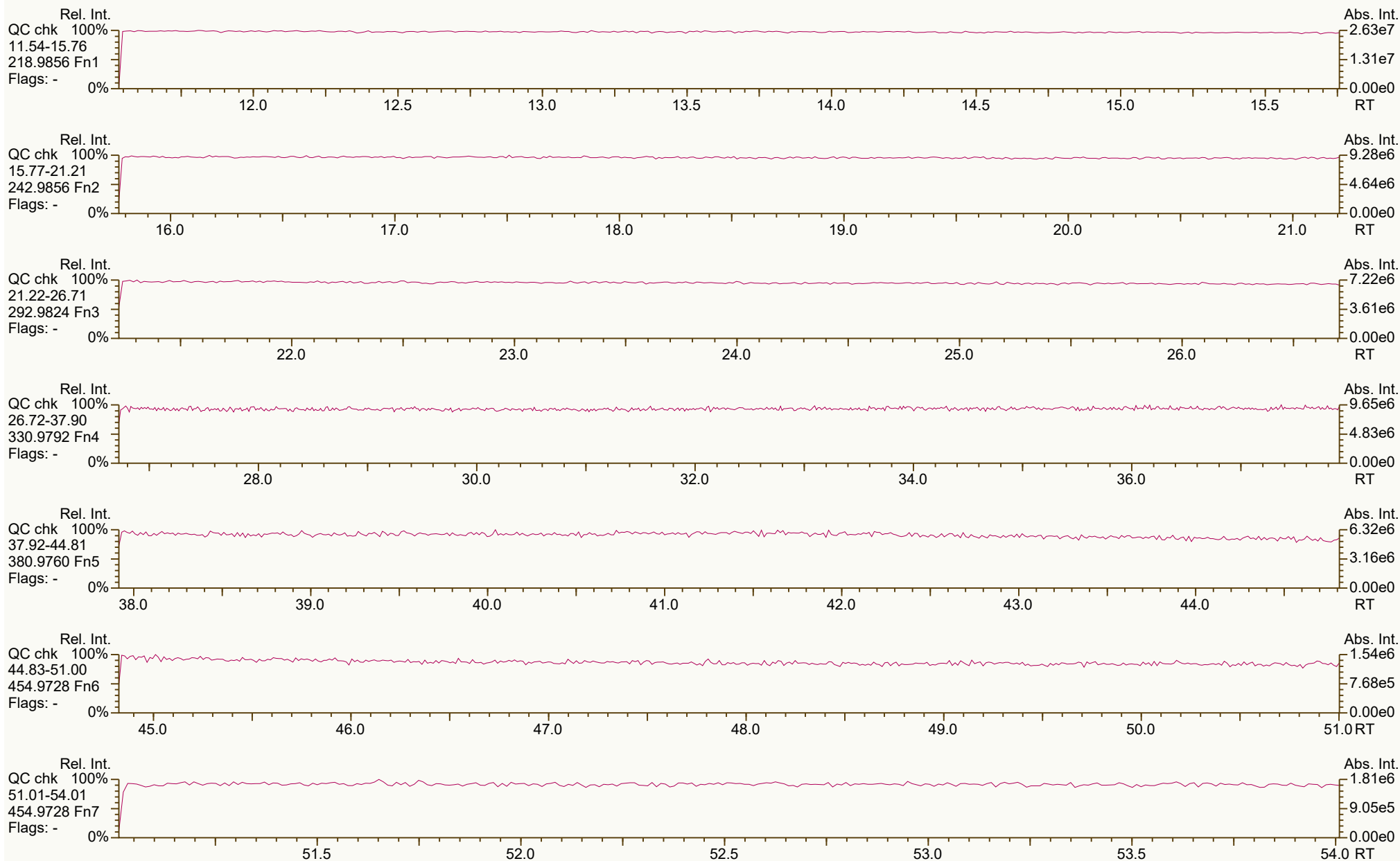
ICAL: MM4-PCB_03SEP2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|----------------------------|--------|----------|--------|------|------|-------|
| SS PCB-28 | 22.58 | 2.04E+08 | 1.00 Y | 1.01 | 1.05 | 3.1% |
| SS PCB-111 | 32.45 | 1.31E+08 | 1.53 Y | 0.97 | 0.98 | 1.3% |
| SS PCB-178 | 37.42 | 3.57E+07 | 1.05 Y | 0.74 | 0.80 | 8.4% |
| CS PCB-28 | 22.58 | 2.04E+08 | 1.00 Y | 1.73 | 1.80 | 4.0% |
| CS PCB-111 | 32.45 | 1.31E+08 | 1.53 Y | 1.25 | 1.32 | 5.5% |
| CS PCB-178 | 37.42 | 3.57E+07 | 1.05 Y | 0.46 | 0.47 | 2.6% |
| JS PCB-9 | 16.12 | 2.42E+08 | 1.54 Y | - | - | - |
| JS PCB-52 | 24.20 | 1.13E+08 | 0.73 Y | - | - | - |
| JS PCB-101 | 30.16 | 9.97E+07 | 1.56 Y | - | - | - |
| JS PCB-138 | 37.05 | 7.51E+07 | 1.19 Y | - | - | - |
| JS PCB-194 | 47.20 | 7.74E+07 | 0.88 Y | - | - | - |
| PCB-1 2-MoCB | 11.67 | 2.10E+06 | 3.08 Y | 1.47 | 1.54 | 4.7% |
| PCB-3 4-MoCB | 13.93 | 2.11E+06 | 3.21 Y | 1.45 | 1.66 | 14.0% |
| PCB-4 22'-DiCB | 14.18 | 8.30E+05 | 1.68 Y | 1.30 | 1.36 | 4.9% |
| PCB-15 44'-DiCB | 19.85 | 1.99E+06 | 1.48 Y | 1.31 | 1.50 | 14.3% |
| PCB-19 22'6-TrCB | 17.24 | 8.49E+05 | 1.08 Y | 1.16 | 1.30 | 12.0% |
| PCB-37 344'-TrCB | 26.15 | 1.60E+06 | 1.06 Y | 1.43 | 1.64 | 14.4% |
| PCB-54 22'66'-TeCB | 20.14 | 7.32E+05 | 0.83 Y | 1.52 | 1.63 | 7.2% |
| PCB-104 22'466'-PeCB | 25.07 | 6.06E+05 | 0.54 Y | 1.46 | 1.65 | 13.1% |
| PCB-155 22'44'66'-HxCB | 29.99 | 7.63E+05 | 1.49 N | 1.36 | 1.49 | 9.9% |
| PCB-188 22'34'566'-HpCB | 34.87 | 4.13E+05 | 1.03 Y | 1.55 | 1.86 | 20.3% |
| PCB-202 22'33'55'66'-OcCB | 39.40 | 5.56E+05 | 1.00 Y | 1.32 | 1.55 | 17.4% |
| PCB-205 233'44'55'6-OcCB | 47.67 | 6.15E+05 | 0.95 Y | 1.12 | 1.28 | 14.9% |
| PCB-208 22'33'455'66'-NoCB | 45.01 | 5.93E+05 | 0.82 Y | 1.11 | 1.24 | 12.2% |
| PCB-206 22'33'44'55'6-NoCB | 49.43 | 3.67E+05 | 0.75 Y | 1.04 | 1.13 | 9.3% |
| FS PCB-8 | 16.94 | 2.46E+08 | 1.55 Y | 0.90 | 0.93 | 3.2% |
| FS PCB-31 | 22.316 | 2.01E+08 | 1.01 Y | 1.03 | 1.03 | 0.1% |
| FS PCB-60 | 29.454 | 1.54E+08 | 0.68 Y | 0.87 | 0.86 | -1.1% |
| FS PCB-85 | 31.729 | 8.99E+07 | 1.53 Y | 0.68 | 0.67 | -1.7% |
| FS PCB-128 | 38.137 | 8.77E+07 | 1.12 Y | 0.66 | 0.67 | 1.1% |
| FS PCB-182 | 38.357 | 8.64E+07 | 0.97 Y | 0.90 | 0.88 | -1.8% |
| AS PCB-32 | 20.27 | 1.91E+08 | 1.06 Y | 0.77 | 0.79 | 2.7% |
| AS PCB-97 | 31.10 | 8.92E+07 | 1.49 Y | 0.86 | 0.90 | 3.7% |
| AS PCB-159 NR - CL 04Sep24 | 36.93 | 1.21E+08 | 1.09 Y | 1.57 | 1.62 | 2.7% |

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
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User: RAB Datafile: 240903S02



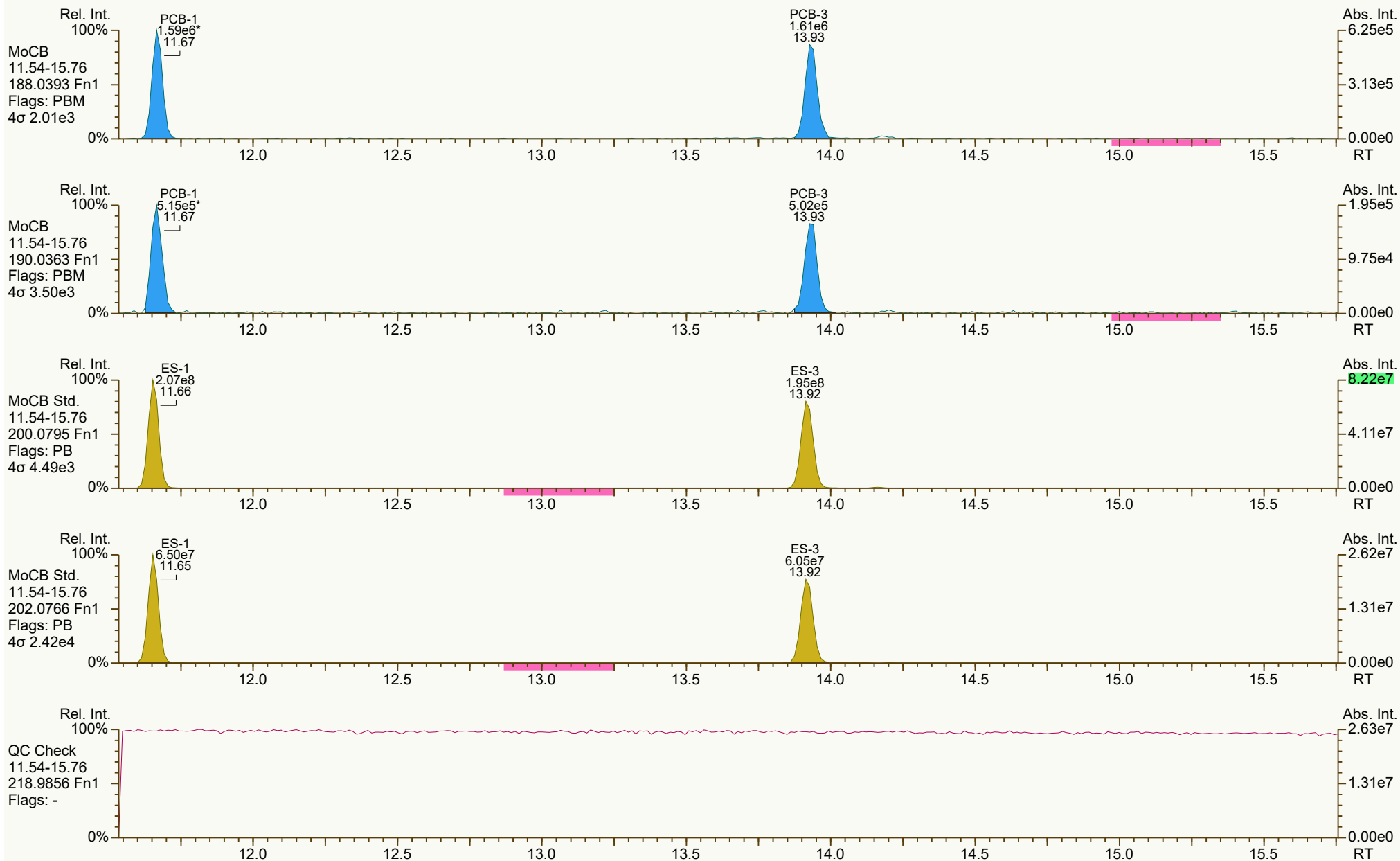
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX scc: 163-822

Peak annotation: Areas, Centroids
PKD: n/a Printed: 04-Sep-2024 13:04 Page 1 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



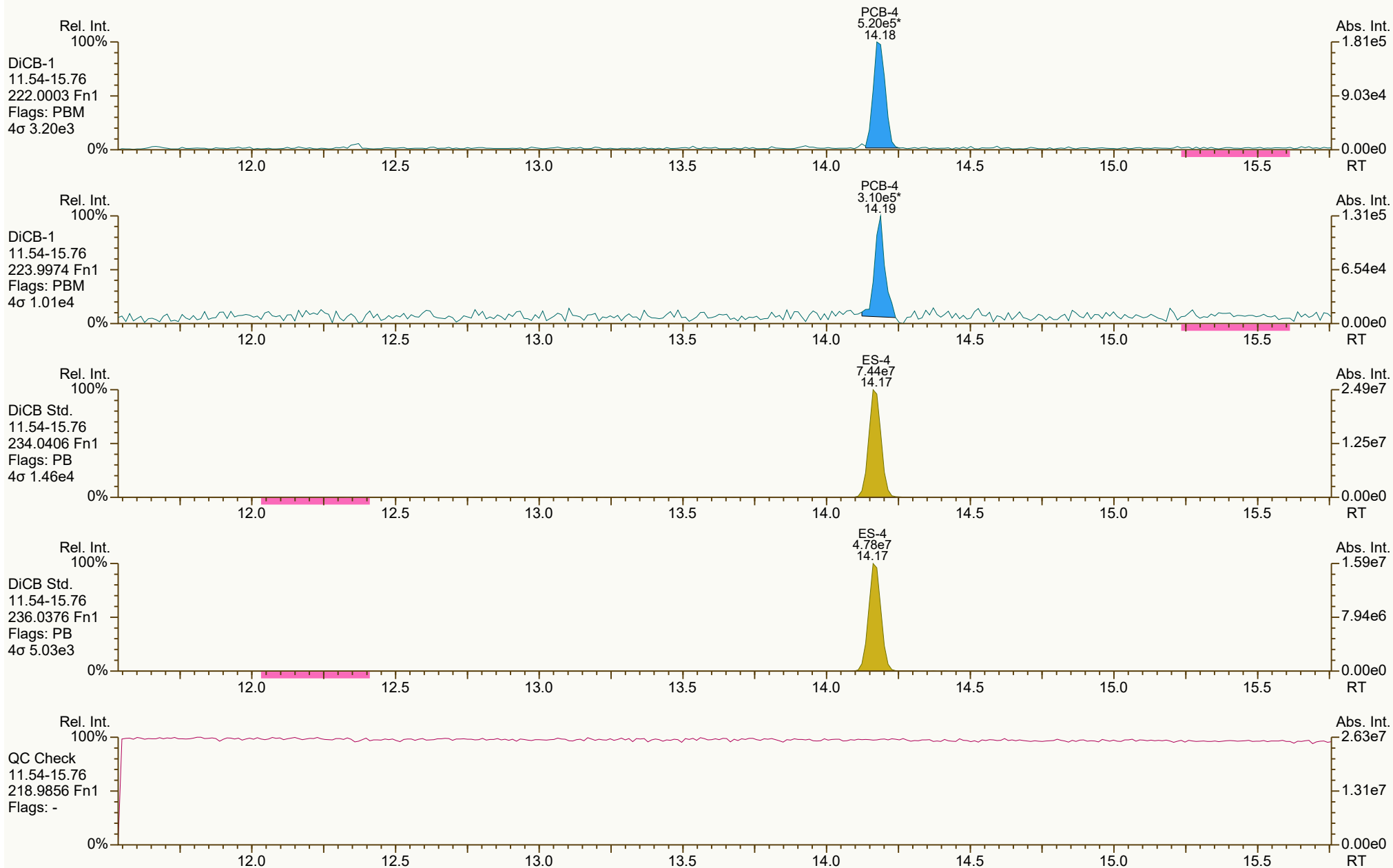
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 1665, 7214 scc: 163-822

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 14:12 (RAB) Printed: 04-Sep-2024 13:04 Page 2 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



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Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 14:12 (RAB) Printed: 04-Sep-2024 13:04 Page 3 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



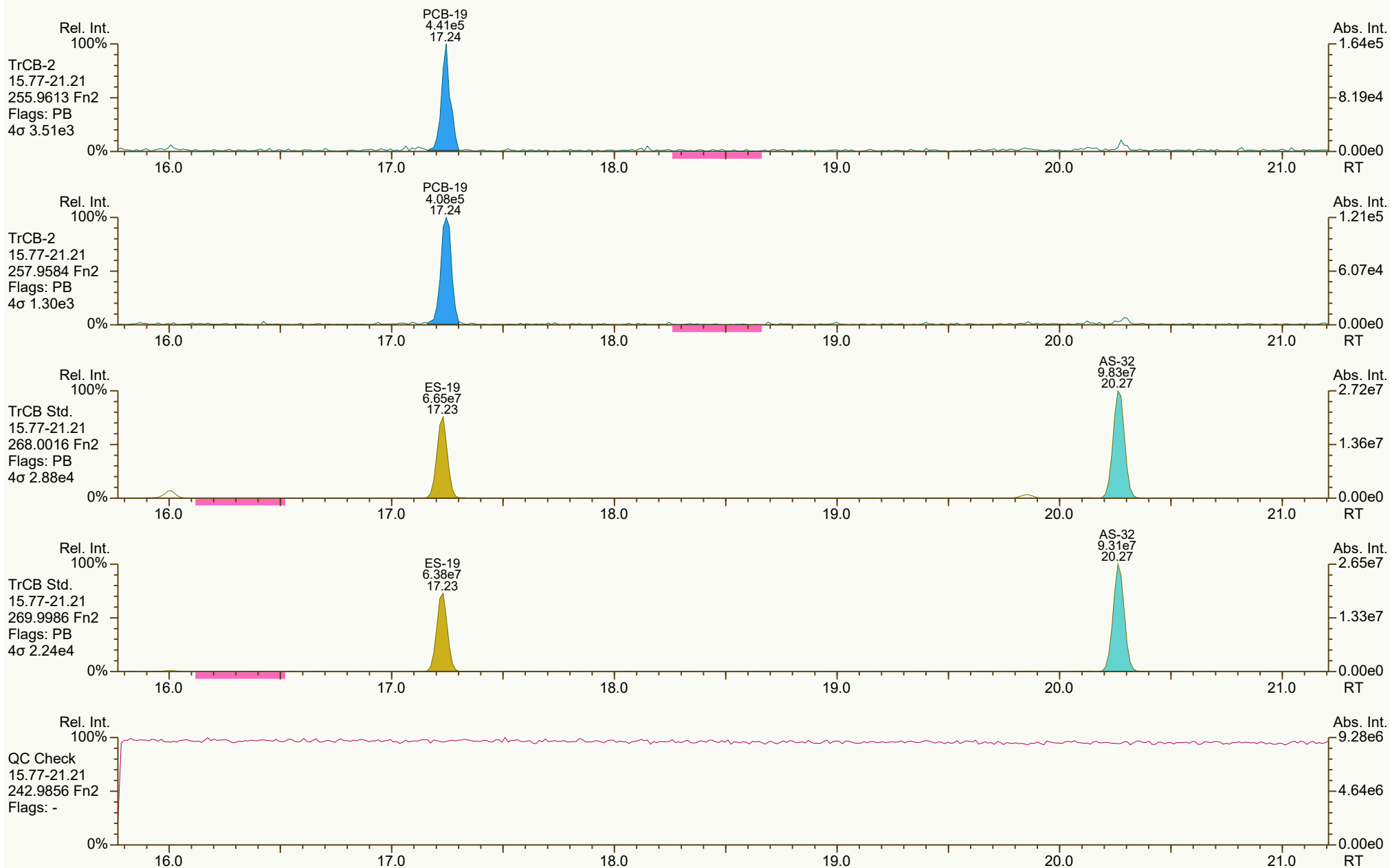
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 8314, 4120 scc: 163-822

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 14:14 Printed: 04-Sep-2024 13:04 Page 4 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS0_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 3009, 6046 scc: 163-822

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 14:13 (RAB) Printed: 04-Sep-2024 13:04 Page 5 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



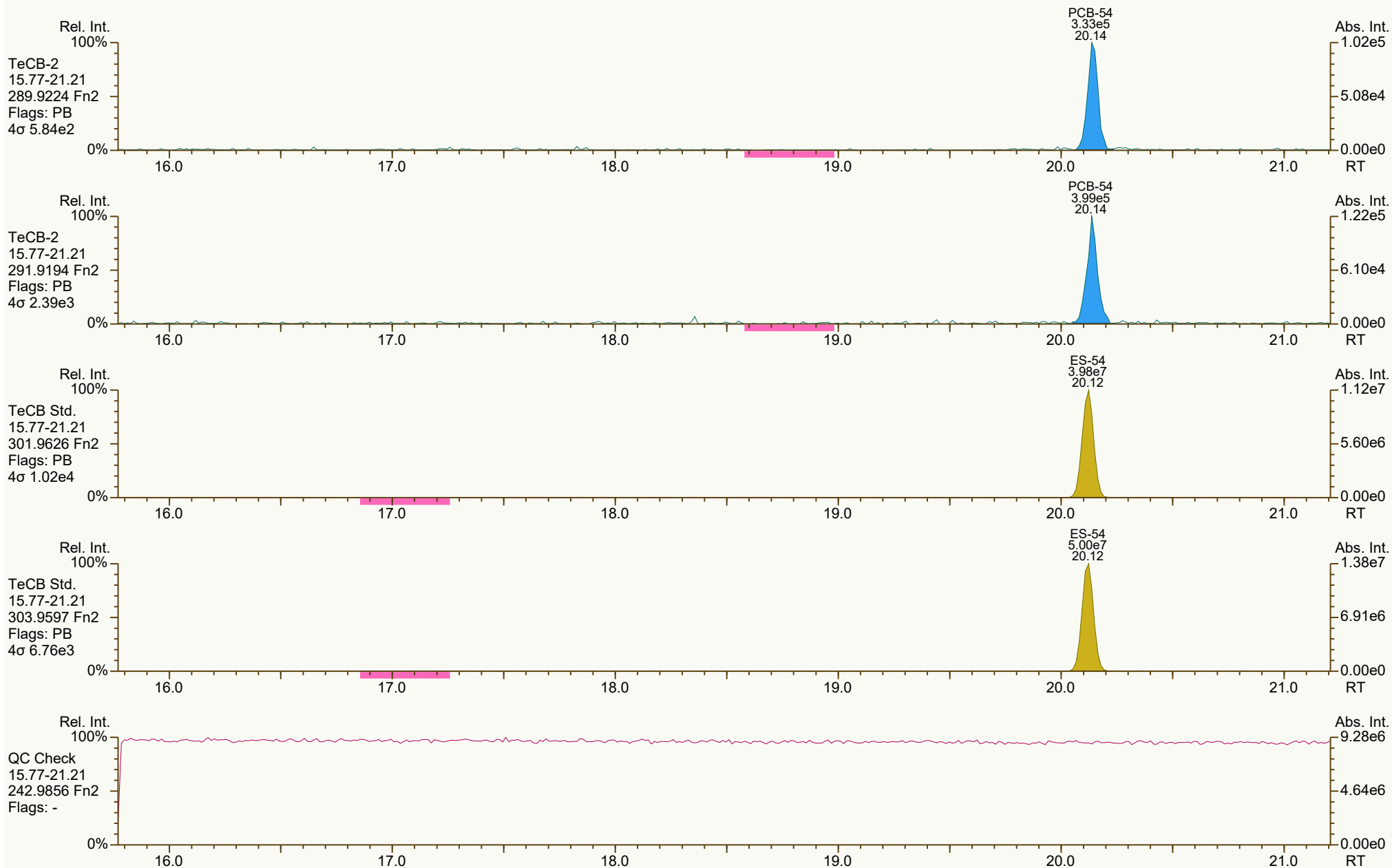
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 5299, 2637 scc: 163-822

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 14:11 Printed: 04-Sep-2024 13:04 Page 6 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 6939, 6011 scc: 163-822

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 14:11 Printed: 04-Sep-2024 13:04 Page 7 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



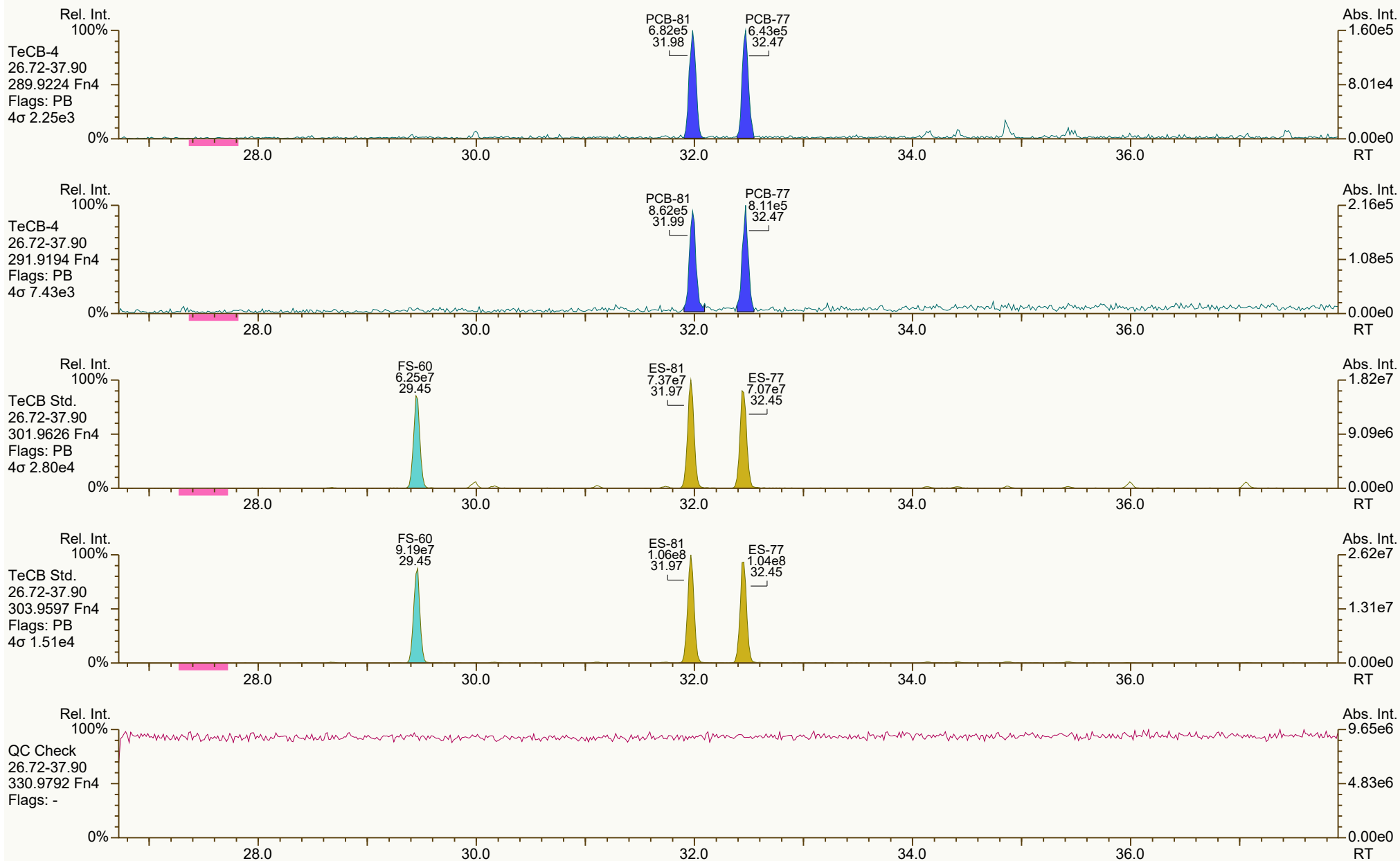
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 5939, 0378 scc: 163-822

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 14:11 Printed: 04-Sep-2024 13:04 Page 8 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



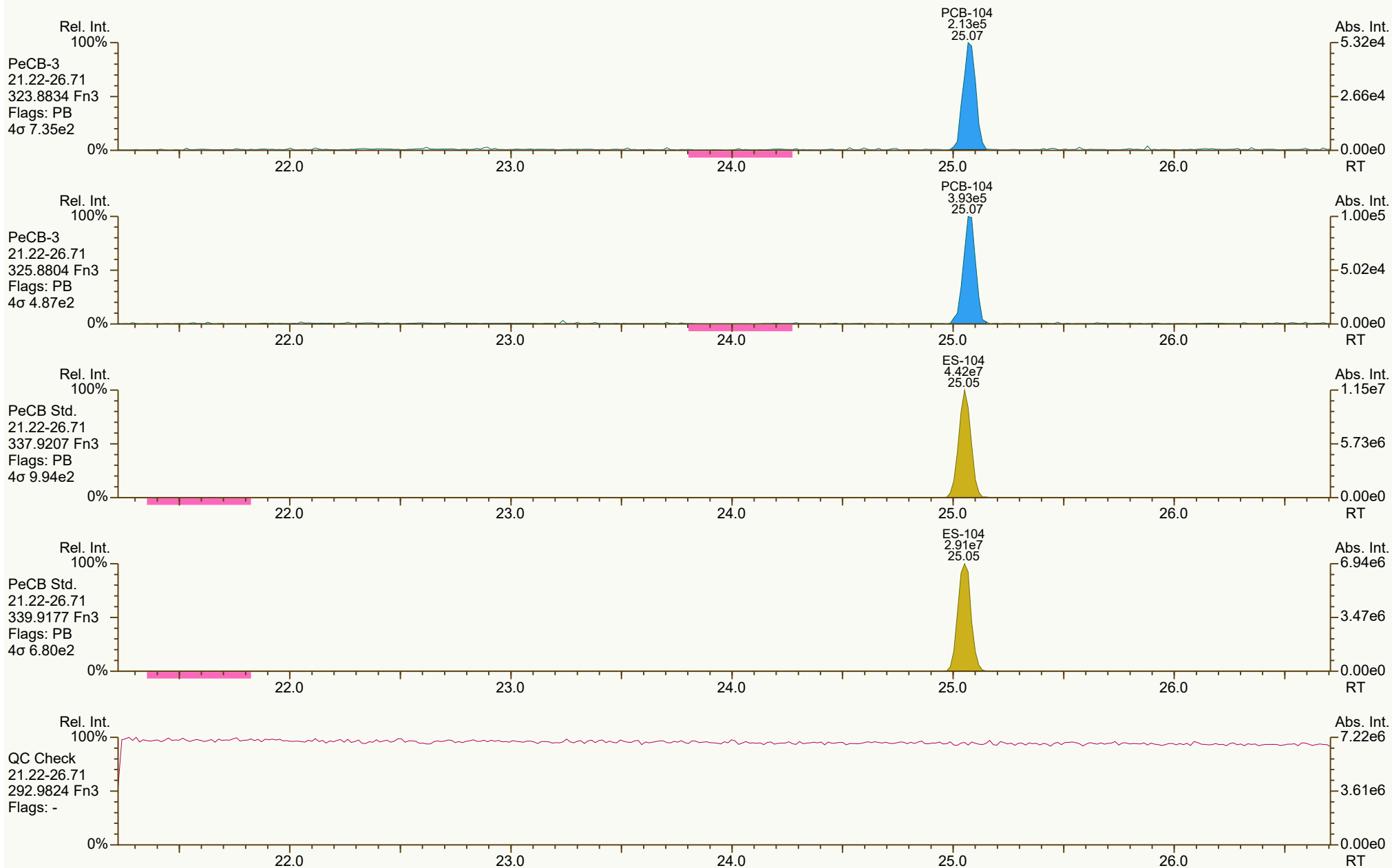
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 14:11 Printed: 04-Sep-2024 13:04 Page 9 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



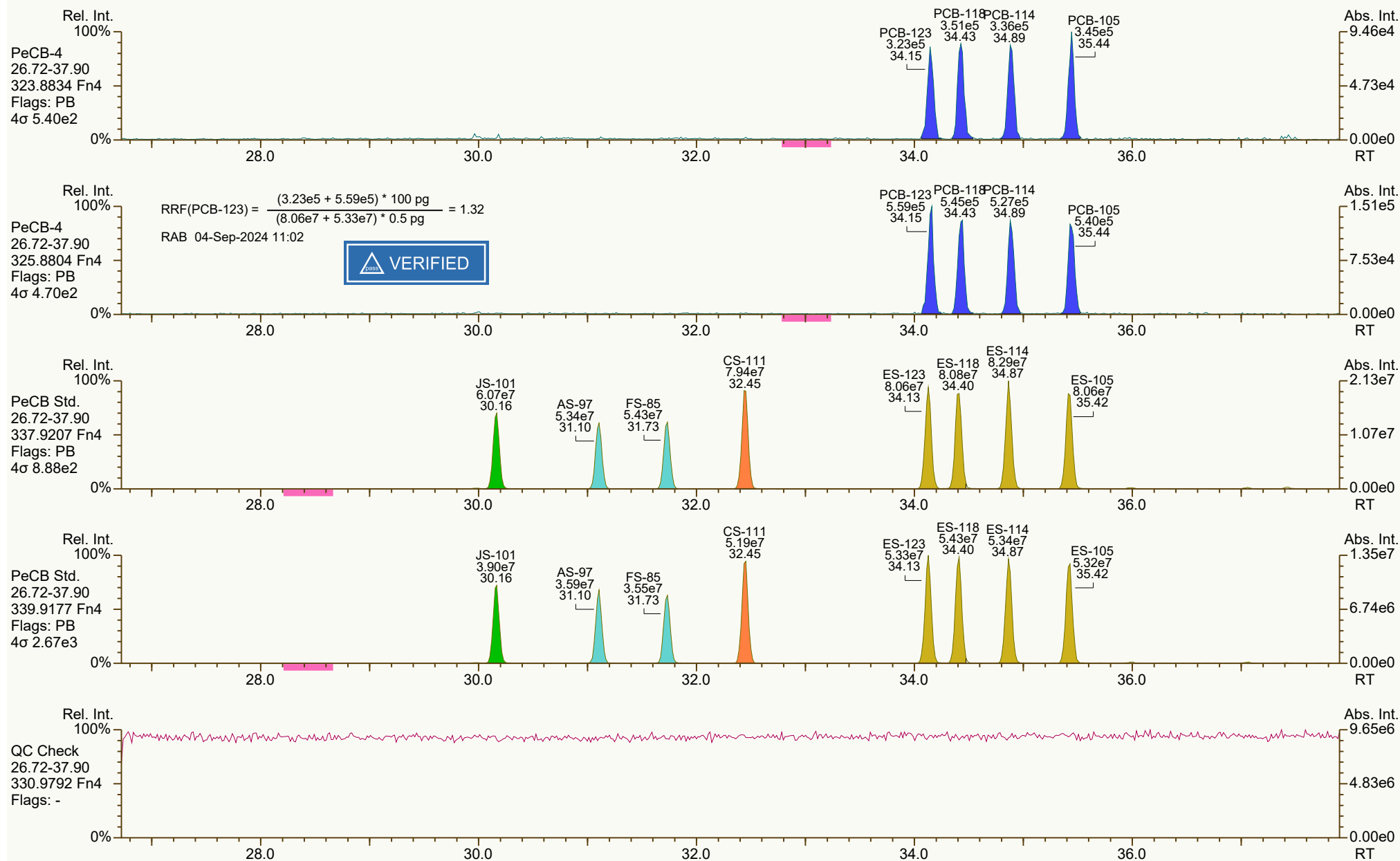
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 14:11 Printed: 04-Sep-2024 13:05 Page 10 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



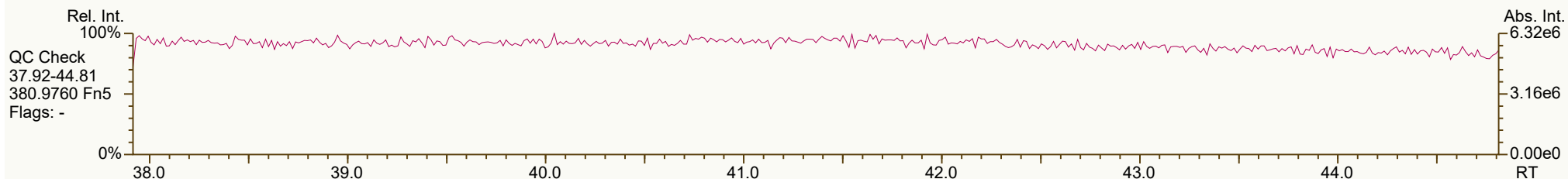
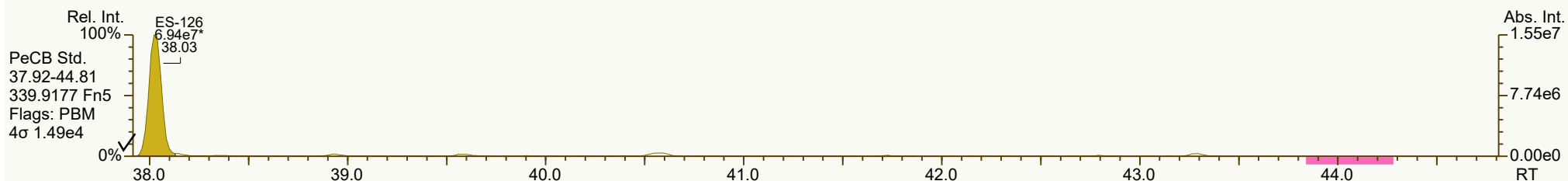
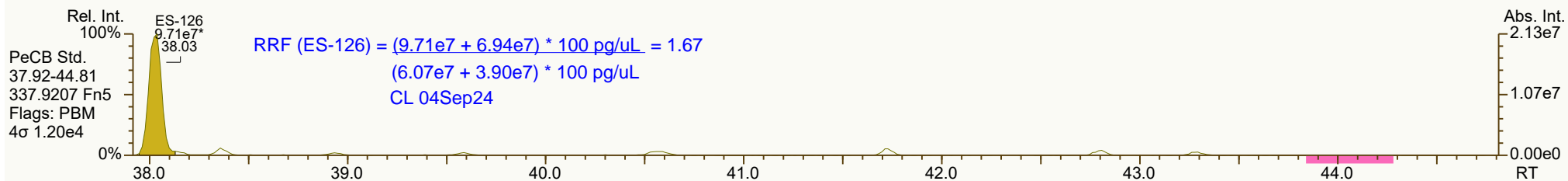
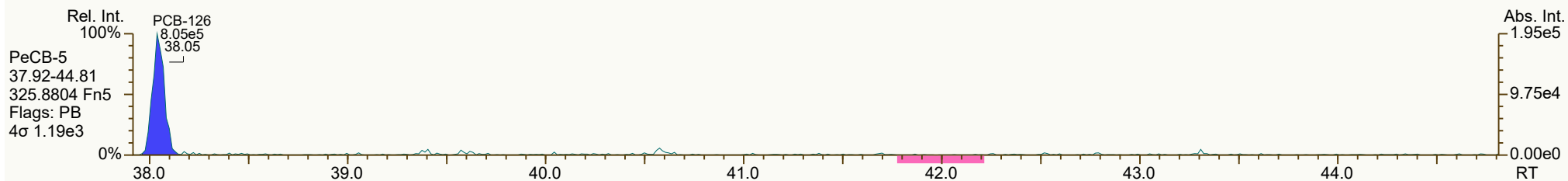
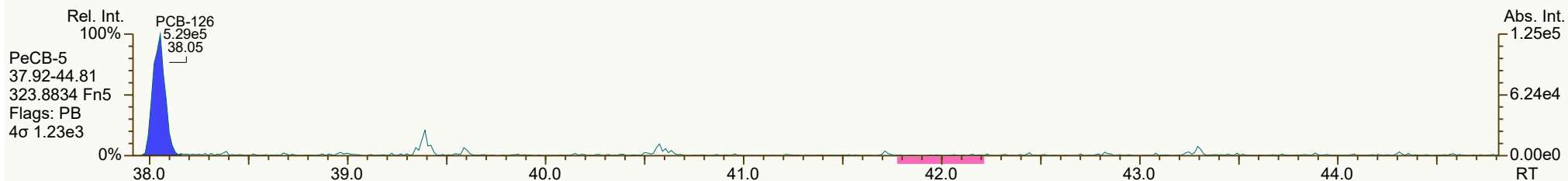
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 14:11 Printed: 04-Sep-2024 13:05 Page 11 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS0_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 3442, 4014 scc: 163-822

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 14:14 Printed: 04-Sep-2024 13:05 Page 12 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



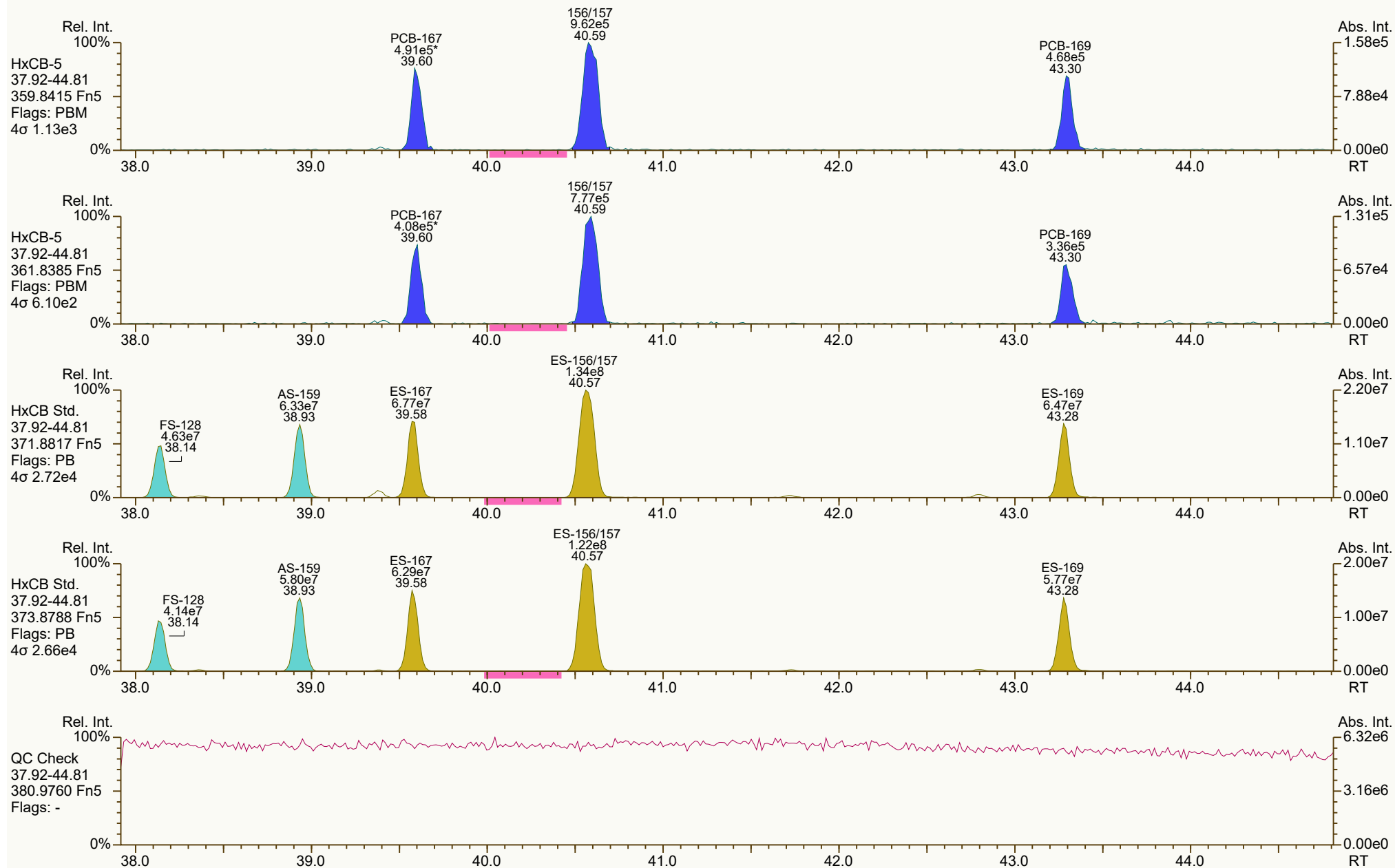
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 9774, 4778 scc: 163-822

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 14:13 (RAB) Printed: 04-Sep-2024 13:05 Page 13 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



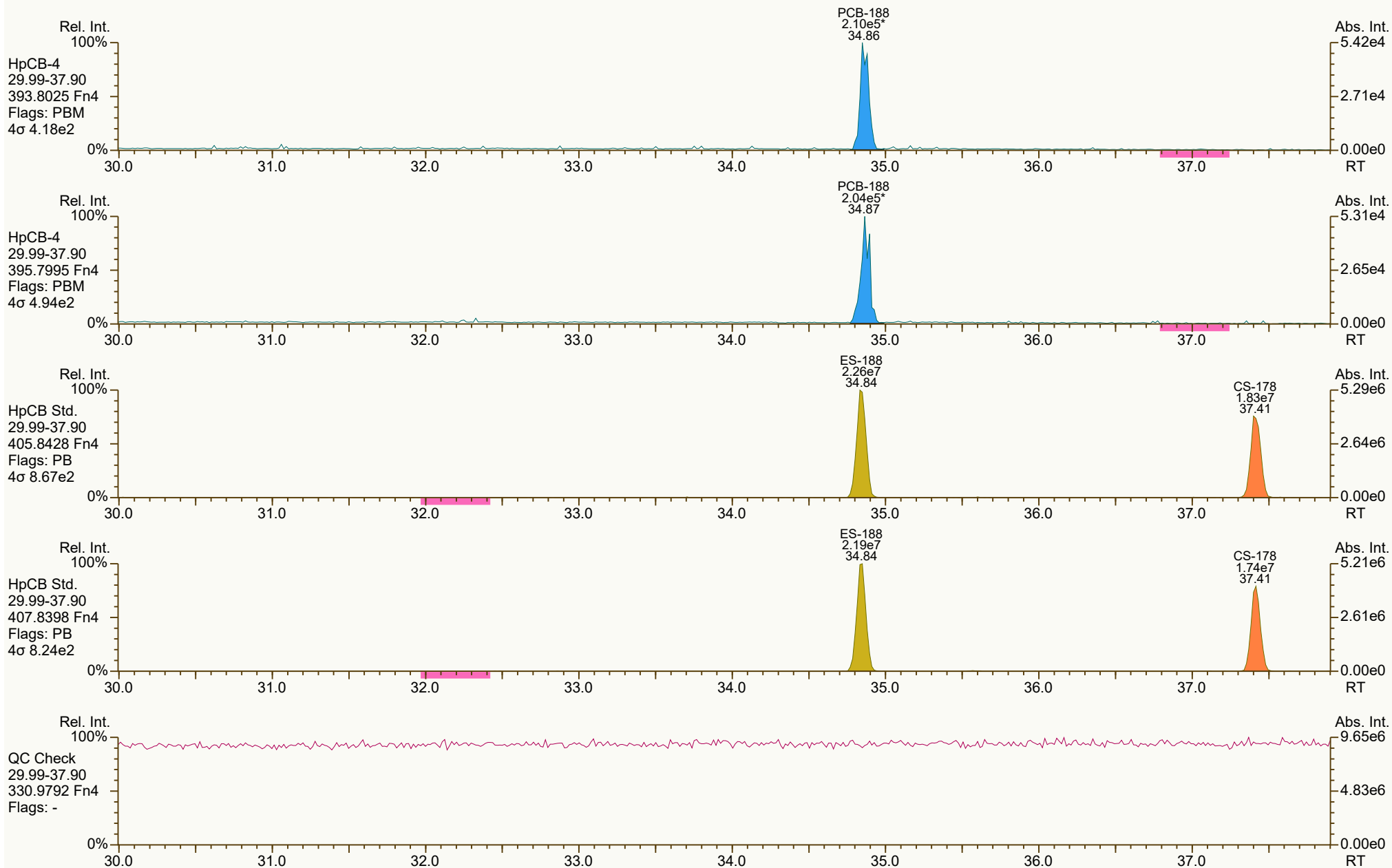
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 2706, 9517 scc: 163-822

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 14:13 (RAB) Printed: 04-Sep-2024 13:05 Page 14 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 6234, 0373 scc: 163-822

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 14:14 Printed: 04-Sep-2024 13:05 Page 15 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS0_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 14:11 Printed: 04-Sep-2024 13:05 Page 16 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS0_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 14:11 Printed: 04-Sep-2024 13:05 Page 17 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



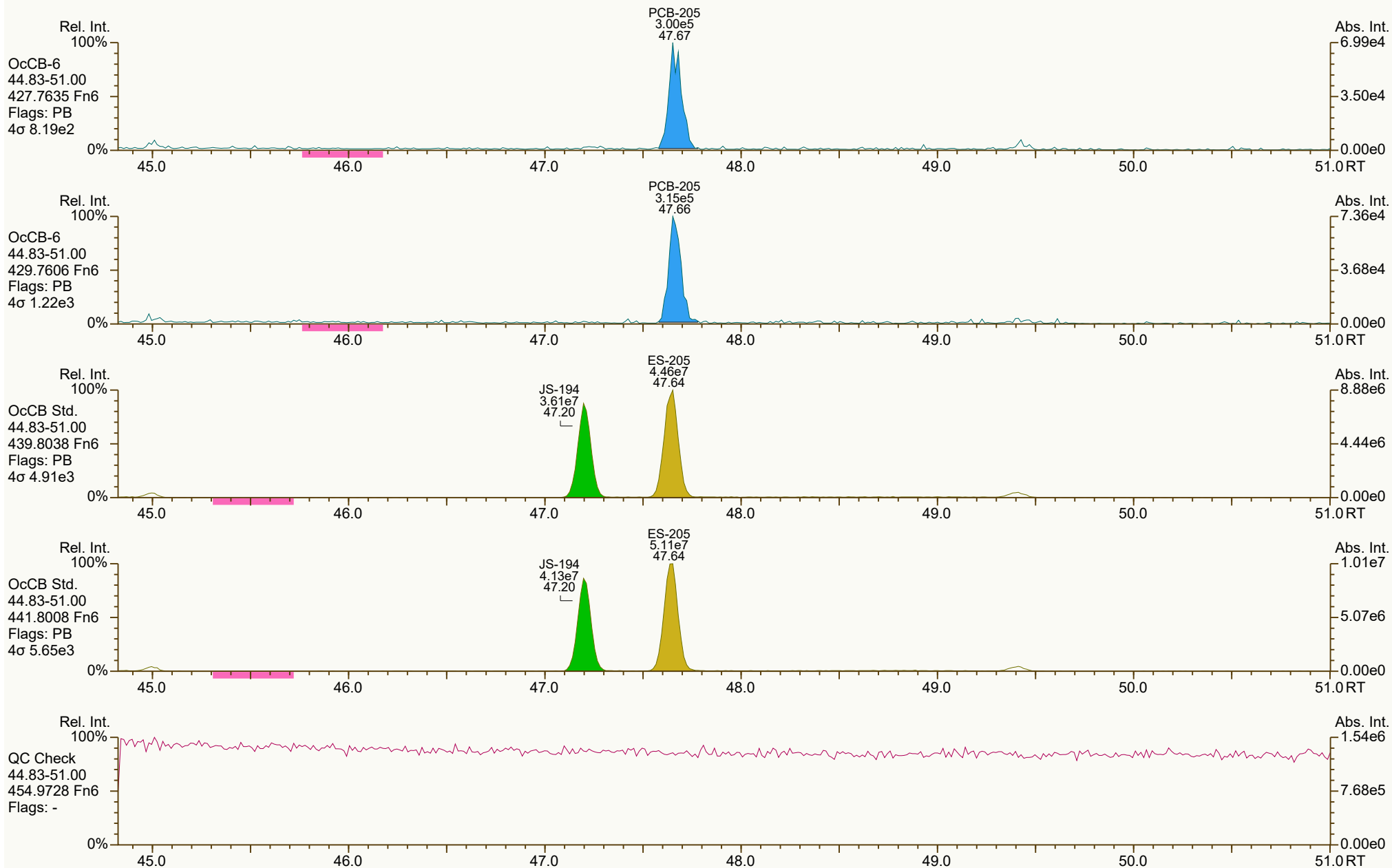
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 3070, 2997 scc: 163-822

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 14:14 (RAB) Printed: 04-Sep-2024 13:05 Page 18 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



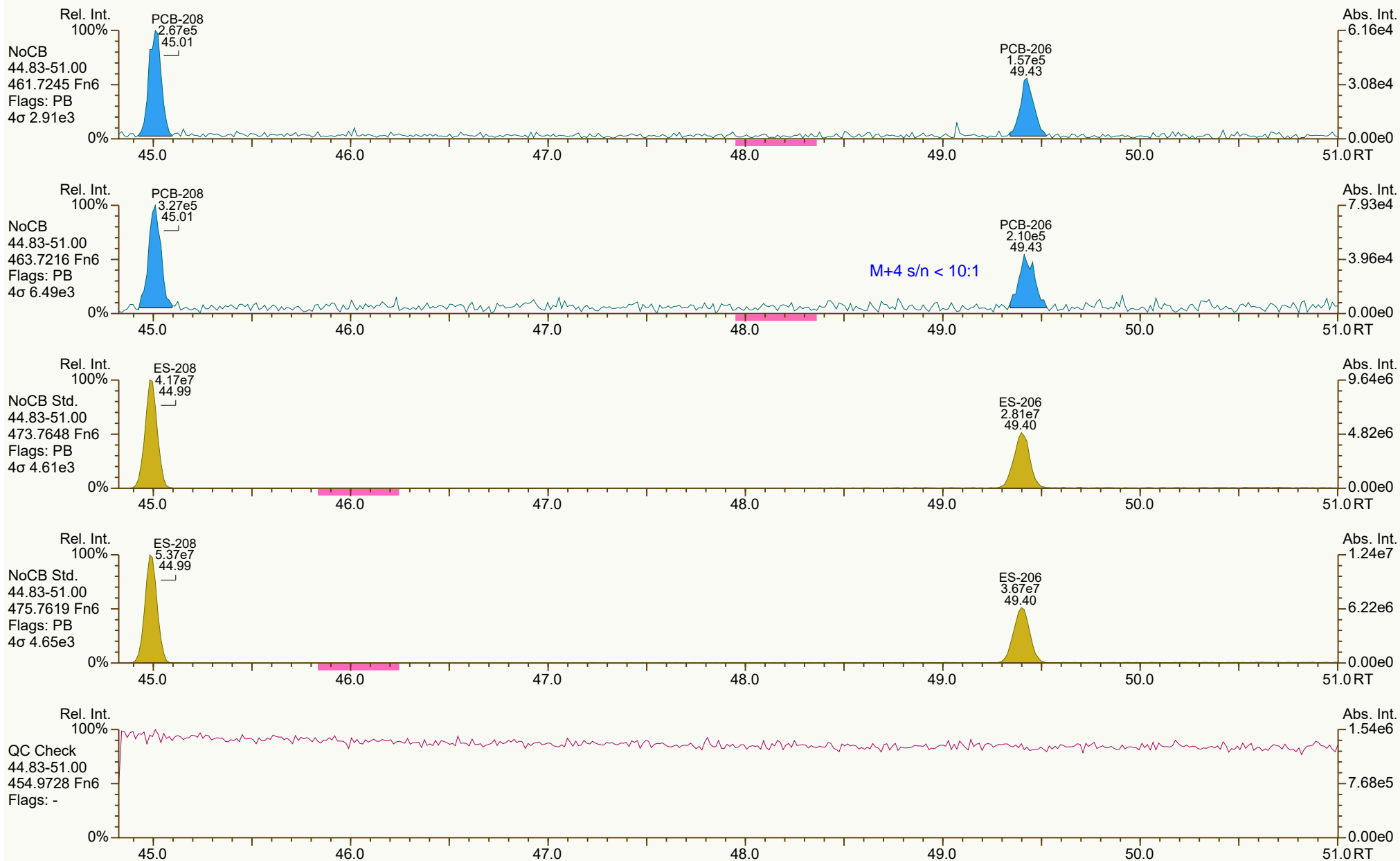
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 2417, 2252 scc: 163-822

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 14:11 Printed: 04-Sep-2024 13:05 Page 19 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



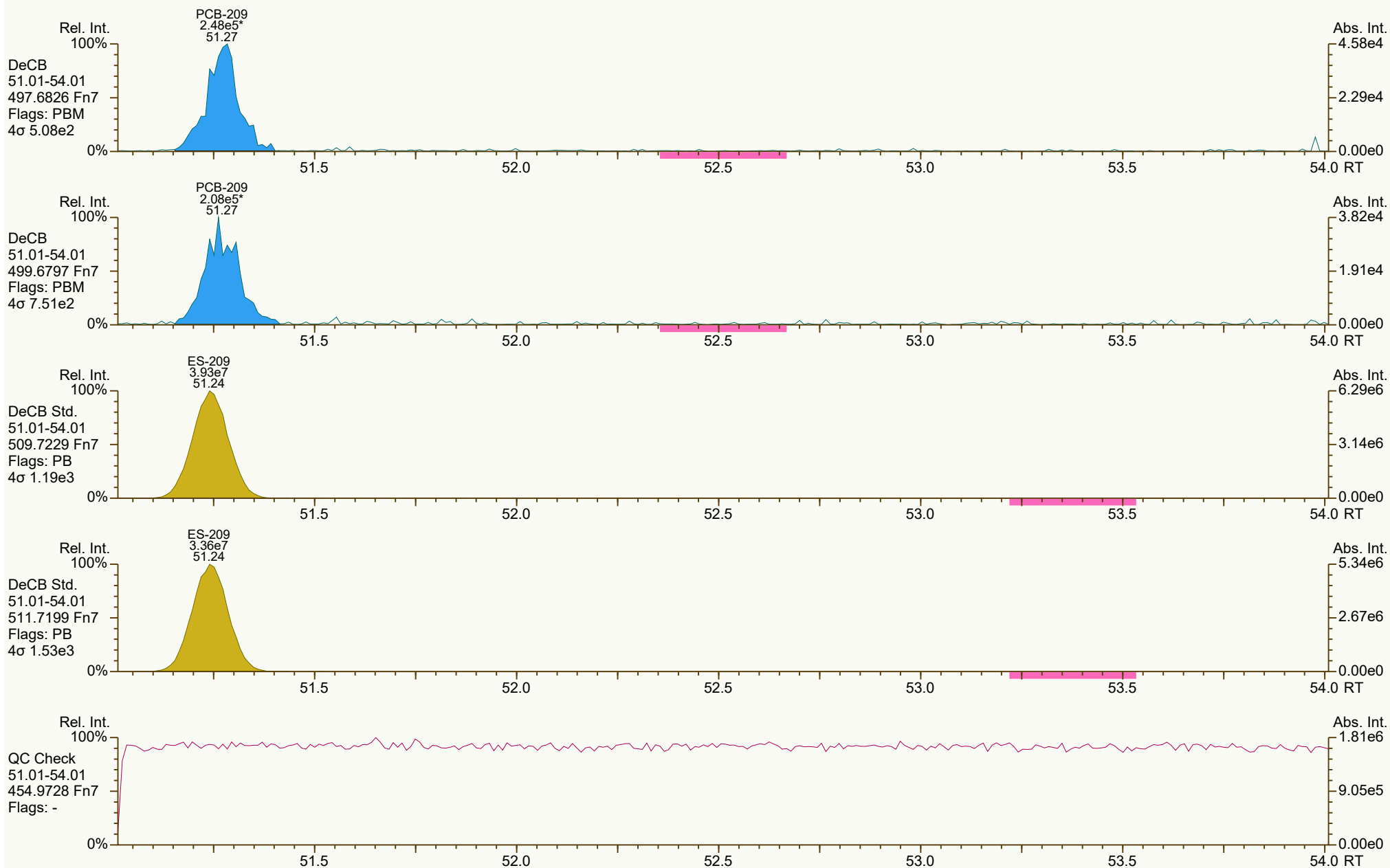
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 3229, 2088 scc: 163-822

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 14:11 Printed: 04-Sep-2024 13:05 Page 20 of 21

SGS ID: CS0_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 85

Acq: 03-Sep-2024 13:05:11
User: RAB Datafile: 240903S02



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS0_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 9936, 4474 scc: 163-822

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 14:12 (RAB) Printed: 04-Sep-2024 13:05 Page 21 of 21

PCB QC Summary

SGS North America

Printed: 4-Sep-2024 13:02

Lab ID: CS1_240903_PCB_SA
 Acquired: 3-Sep-24 14:16:14
 Datafile: 240903S03

ICAL: MM4-PCB_03SEP2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-------------------------|-------|----------|--------|------|------|-------|
| PCB-77 33'44'-TeCB | 32.46 | 2.27E+06 | 0.80 Y | 1.45 | 1.53 | 5.8% |
| PCB-81 344'5'-TeCB | 31.98 | 2.33E+06 | 0.74 Y | 1.46 | 1.58 | 8.1% |
| PCB-105 233'44'-PeCB | 35.43 | 1.39E+06 | 0.61 Y | 1.18 | 1.25 | 5.4% |
| PCB-114 2344'5'-PeCB | 34.88 | 1.34E+06 | 0.70 Y | 1.14 | 1.15 | 0.8% |
| PCB-118 23'44'5'-PeCB | 34.42 | 1.41E+06 | 0.63 Y | 1.18 | 1.21 | 2.1% |
| PCB-123 23'44'5'-PeCB | 34.14 | 1.38E+06 | 0.63 Y | 1.19 | 1.27 | 6.5% |
| PCB-126 33'44'5'-PeCB | 38.04 | 1.99E+06 | 0.65 Y | 1.35 | 1.48 | 9.2% |
| PCB-156/157 ...-HxCB | 40.58 | 2.69E+06 | 1.18 Y | 1.23 | 1.29 | 4.7% |
| PCB-167 23'44'55'-HxCB | 39.59 | 1.39E+06 | 1.30 Y | 1.22 | 1.25 | 3.1% |
| PCB-169 33'44'55'-HxCB | 43.29 | 1.35E+06 | 1.29 Y | 1.23 | 1.34 | 8.7% |
| PCB-189 233'44'55'-HpCB | 45.41 | 1.49E+06 | 1.12 Y | 1.31 | 1.39 | 6.5% |
| PCB-209 DeCB | 51.26 | 6.66E+05 | 1.20 Y | 1.08 | 1.15 | 6.5% |
| | | | | | | |
| ES PCB-1 | 11.65 | 2.19E+08 | 3.17 Y | 1.09 | 1.09 | -0.1% |
| ES PCB-3 | 13.91 | 2.09E+08 | 3.18 Y | 1.06 | 1.04 | -2.3% |
| ES PCB-4 | 14.16 | 1.01E+08 | 1.56 Y | 0.52 | 0.50 | -3.8% |
| ES PCB-15 | 19.83 | 2.22E+08 | 1.52 Y | 1.11 | 1.10 | -0.9% |
| ES PCB-19 | 17.22 | 1.08E+08 | 1.05 Y | 0.54 | 0.53 | -1.2% |
| ES PCB-37 | 26.13 | 1.61E+08 | 1.01 Y | 1.71 | 1.68 | -1.2% |
| ES PCB-54 | 20.11 | 7.47E+07 | 0.82 Y | 0.78 | 0.78 | 0.3% |
| ES PCB-77 | 32.44 | 1.48E+08 | 0.71 Y | 1.53 | 1.54 | 1.2% |
| ES PCB-81 | 31.96 | 1.48E+08 | 0.69 Y | 1.55 | 1.54 | -0.4% |
| ES PCB-104 | 25.04 | 6.40E+07 | 1.54 Y | 0.74 | 0.75 | 1.5% |
| ES PCB-105 | 35.41 | 1.12E+08 | 1.54 Y | 1.31 | 1.32 | 0.6% |
| ES PCB-114 | 34.86 | 1.16E+08 | 1.50 Y | 1.34 | 1.36 | 1.6% |
| ES PCB-118 | 34.40 | 1.17E+08 | 1.50 Y | 1.35 | 1.38 | 1.8% |
| ES PCB-123 | 34.12 | 1.09E+08 | 1.50 Y | 1.29 | 1.29 | -0.2% |
| ES PCB-126 | 38.02 | 1.35E+08 | 1.43 Y | 1.59 | 1.59 | -0.4% |
| ES PCB-153 | 35.97 | 7.00E+07 | 1.16 Y | 1.10 | 1.11 | 1.1% |
| ES PCB-155 | 29.97 | 8.82E+07 | 1.20 Y | 1.38 | 1.40 | 1.9% |
| ES PCB-156/157 | 40.56 | 2.09E+08 | 1.08 Y | 1.62 | 1.66 | 2.5% |
| ES PCB-167 | 39.57 | 1.11E+08 | 1.11 Y | 1.70 | 1.76 | 3.3% |
| ES PCB-169 | 43.28 | 1.00E+08 | 1.10 Y | 1.55 | 1.60 | 2.7% |
| ES PCB-170 | 42.78 | 6.61E+07 | 0.99 Y | 1.06 | 1.05 | -1.0% |
| ES PCB-180 | 41.71 | 8.09E+07 | 0.99 Y | 1.30 | 1.28 | -1.4% |
| ES PCB-188 | 34.83 | 3.87E+07 | 1.04 Y | 0.63 | 0.62 | -1.8% |
| ES PCB-189 | 45.39 | 1.07E+08 | 0.93 Y | 1.71 | 1.69 | -1.0% |
| ES PCB-202 | 39.37 | 6.04E+07 | 0.90 Y | 0.96 | 0.96 | 0.2% |
| ES PCB-205 | 47.64 | 7.79E+07 | 0.87 Y | 1.23 | 1.23 | 0.0% |
| ES PCB-206 | 49.39 | 5.20E+07 | 0.78 Y | 0.84 | 0.82 | -2.0% |
| ES PCB-208 | 44.98 | 7.78E+07 | 0.75 Y | 1.25 | 1.23 | -1.6% |
| ES PCB-209 | 51.23 | 5.81E+07 | 1.16 Y | 0.94 | 0.92 | -2.2% |

PCB QC Summary

SGS North America

Printed: 4-Sep-2024 13:02

Lab ID: CS1_240903_PCB_SA
 Acquired: 3-Sep-24 14:16:14
 Datafile: 240903S03

ICAL: MM4-PCB_03SEP2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|----------------------------|--------|----------|--------|------|------|-------|
| SS PCB-28 | 22.58 | 1.63E+08 | 1.02 Y | 1.01 | 1.01 | -0.4% |
| SS PCB-111 | 32.44 | 1.05E+08 | 1.51 Y | 0.97 | 0.96 | -0.4% |
| SS PCB-178 | 37.41 | 2.88E+07 | 1.05 Y | 0.74 | 0.74 | 0.6% |
| CS PCB-28 | 22.58 | 1.63E+08 | 1.02 Y | 1.73 | 1.70 | -1.7% |
| CS PCB-111 | 32.44 | 1.05E+08 | 1.51 Y | 1.25 | 1.24 | -0.6% |
| CS PCB-178 | 37.41 | 2.88E+07 | 1.05 Y | 0.46 | 0.46 | -1.0% |
| JS PCB-9 | 16.12 | 2.02E+08 | 1.53 Y | - | - | - |
| JS PCB-52 | 24.19 | 9.58E+07 | 0.73 Y | - | - | - |
| JS PCB-101 | 30.16 | 8.48E+07 | 1.53 Y | - | - | - |
| JS PCB-138 | 37.04 | 6.29E+07 | 1.16 Y | - | - | - |
| JS PCB-194 | 47.20 | 6.32E+07 | 0.89 Y | - | - | - |
| PCB-1 2-MoCB | 11.66 | 3.79E+06 | 3.07 Y | 1.47 | 1.73 | 17.5% |
| PCB-3 4-MoCB | 13.92 | 3.23E+06 | 3.11 Y | 1.45 | 1.54 | 6.1% |
| PCB-4 22'-DiCB | 14.18 | 1.45E+06 | 1.58 Y | 1.30 | 1.44 | 11.5% |
| PCB-15 44'-DiCB | 19.85 | 3.14E+06 | 1.55 Y | 1.31 | 1.41 | 7.9% |
| PCB-19 22'6-TrCB | 17.24 | 1.28E+06 | 1.02 Y | 1.16 | 1.18 | 1.8% |
| PCB-37 344'-TrCB | 26.15 | 2.39E+06 | 1.11 Y | 1.43 | 1.48 | 3.4% |
| PCB-54 22'66'-TeCB | 20.13 | 1.18E+06 | 0.79 Y | 1.52 | 1.59 | 4.3% |
| PCB-104 22'466'-PeCB | 25.07 | 9.93E+05 | 0.56 Y | 1.46 | 1.55 | 6.1% |
| PCB-155 22'44'66'-HxCB | 29.99 | 1.28E+06 | 1.30 Y | 1.36 | 1.46 | 7.3% |
| PCB-188 22'34'566'-HpCB | 34.86 | 6.05E+05 | 0.98 Y | 1.55 | 1.56 | 1.2% |
| PCB-202 22'33'55'66'-OoCB | 39.39 | 8.42E+05 | 0.86 Y | 1.32 | 1.40 | 5.6% |
| PCB-205 233'44'55'6-OoCB | 47.66 | 9.15E+05 | 0.98 Y | 1.12 | 1.17 | 5.0% |
| PCB-208 22'33'455'66'-NoCB | 45.01 | 9.39E+05 | 0.78 Y | 1.11 | 1.21 | 9.0% |
| PCB-206 22'33'44'55'6-NoCB | 49.42 | 5.86E+05 | 0.70 Y | 1.04 | 1.13 | 8.8% |
| FS PCB-8 | 16.93 | 1.95E+08 | 1.54 Y | 0.90 | 0.88 | -2.1% |
| FS PCB-31 | 22.31 | 1.63E+08 | 1.01 Y | 1.03 | 1.01 | -2.0% |
| FS PCB-60 | 29.446 | 1.25E+08 | 0.68 Y | 0.87 | 0.84 | -2.8% |
| FS PCB-85 | 31.723 | 7.33E+07 | 1.52 Y | 0.68 | 0.67 | -1.7% |
| FS PCB-128 | 38.13 | 7.07E+07 | 1.16 Y | 0.66 | 0.64 | -3.7% |
| FS PCB-182 | 38.35 | 7.09E+07 | 0.98 Y | 0.90 | 0.88 | -2.1% |
| AS PCB-32 | 20.26 | 1.51E+08 | 1.06 Y | 0.77 | 0.75 | -2.9% |
| AS PCB-97 | 31.10 | 7.25E+07 | 1.45 Y | 0.86 | 0.85 | -1.0% |
| AS PCB-159 NR - CL 04Sep24 | 36.92 | 1.00E+08 | 1.12 Y | 1.57 | 1.59 | 1.1% |

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



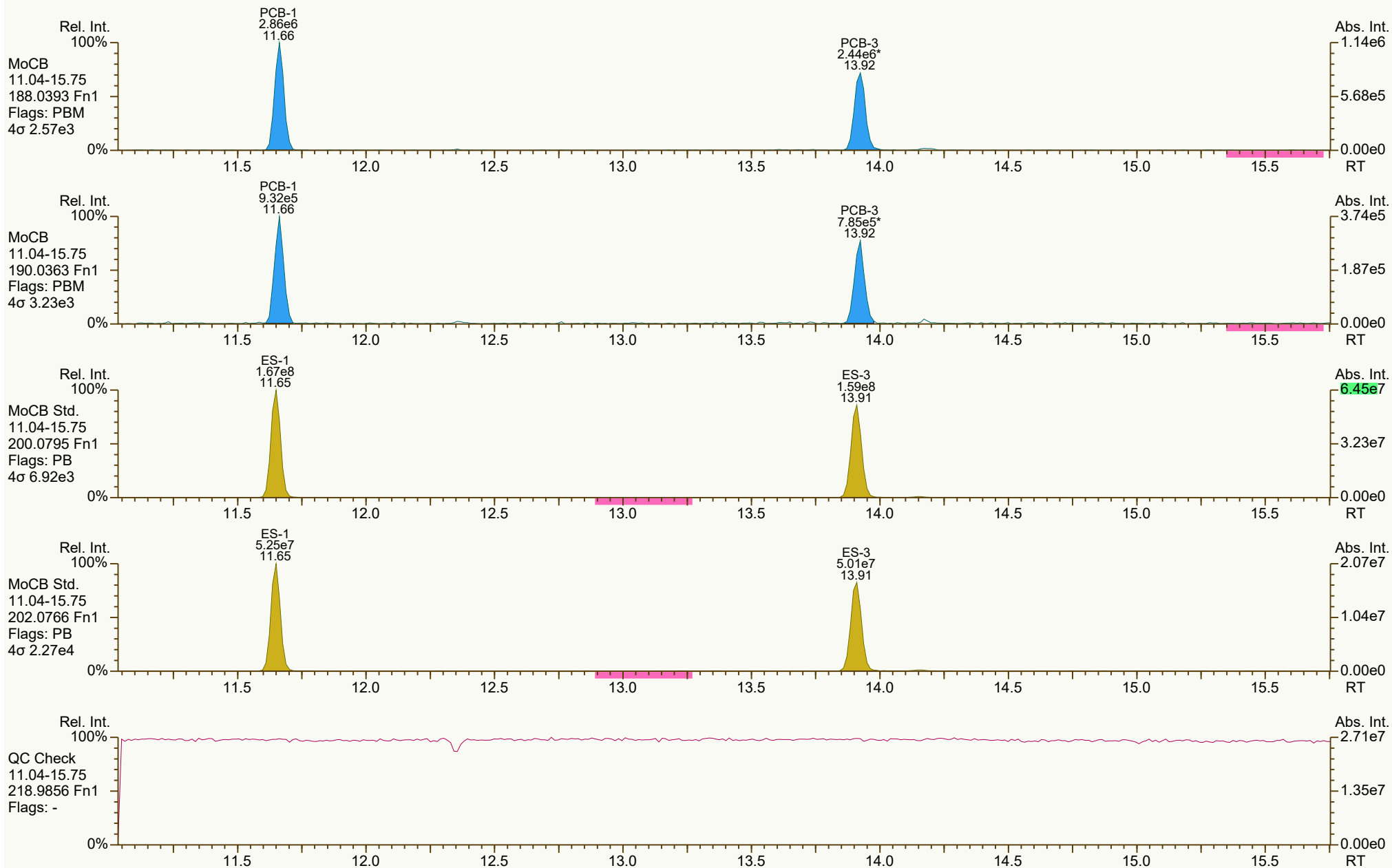
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX scc: 264-967

Peak annotation: Areas, Centroids
PKD: n/a Printed: 04-Sep-2024 13:05 Page 1 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 6911, 8857 scc: 264-967

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 15:19 (RAB) Printed: 04-Sep-2024 13:05 Page 2 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 0158, 9027 scc: 264-967

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 15:19 (RAB) Printed: 04-Sep-2024 13:05 Page 3 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



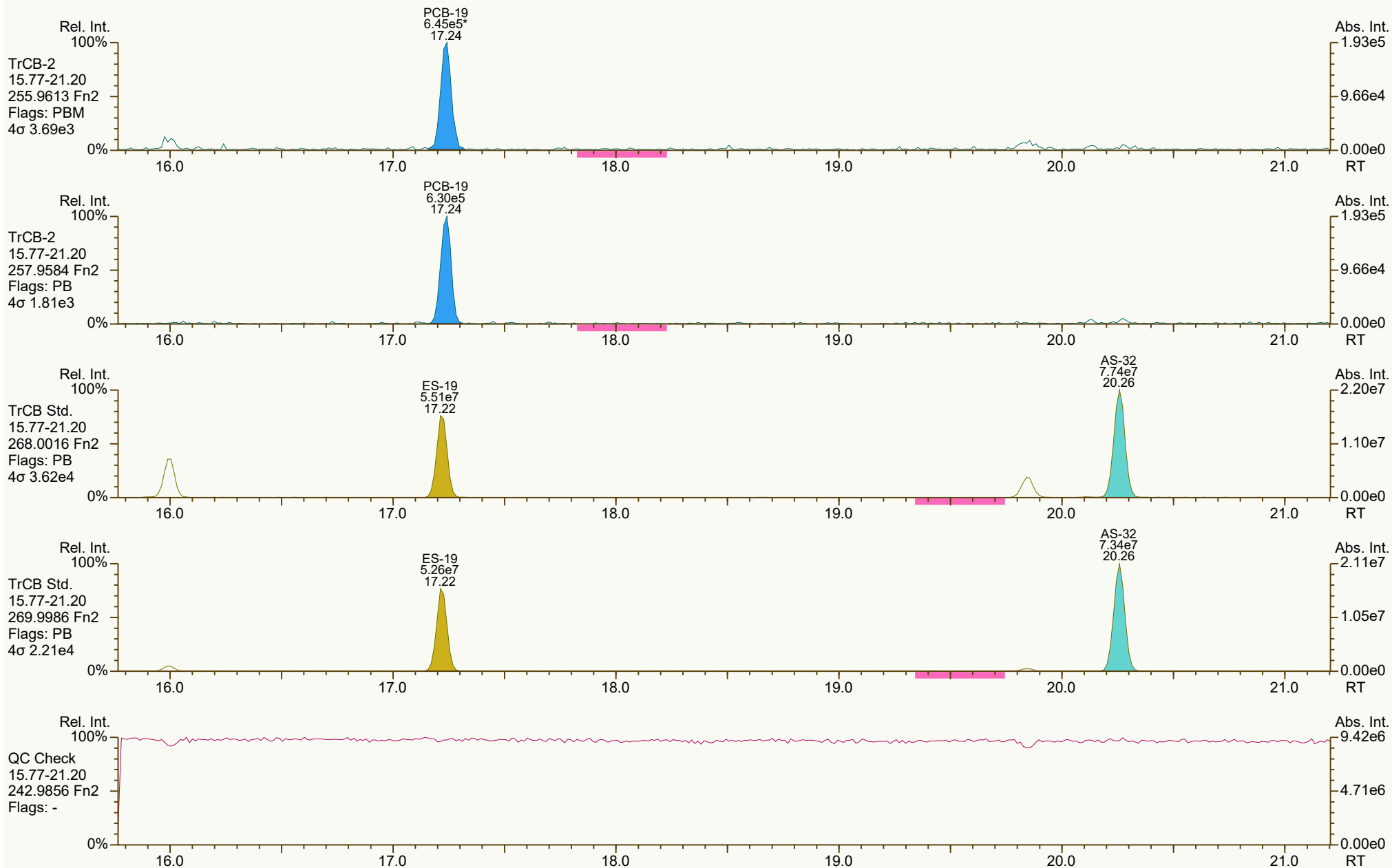
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 15:23 Printed: 04-Sep-2024 13:05 Page 4 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



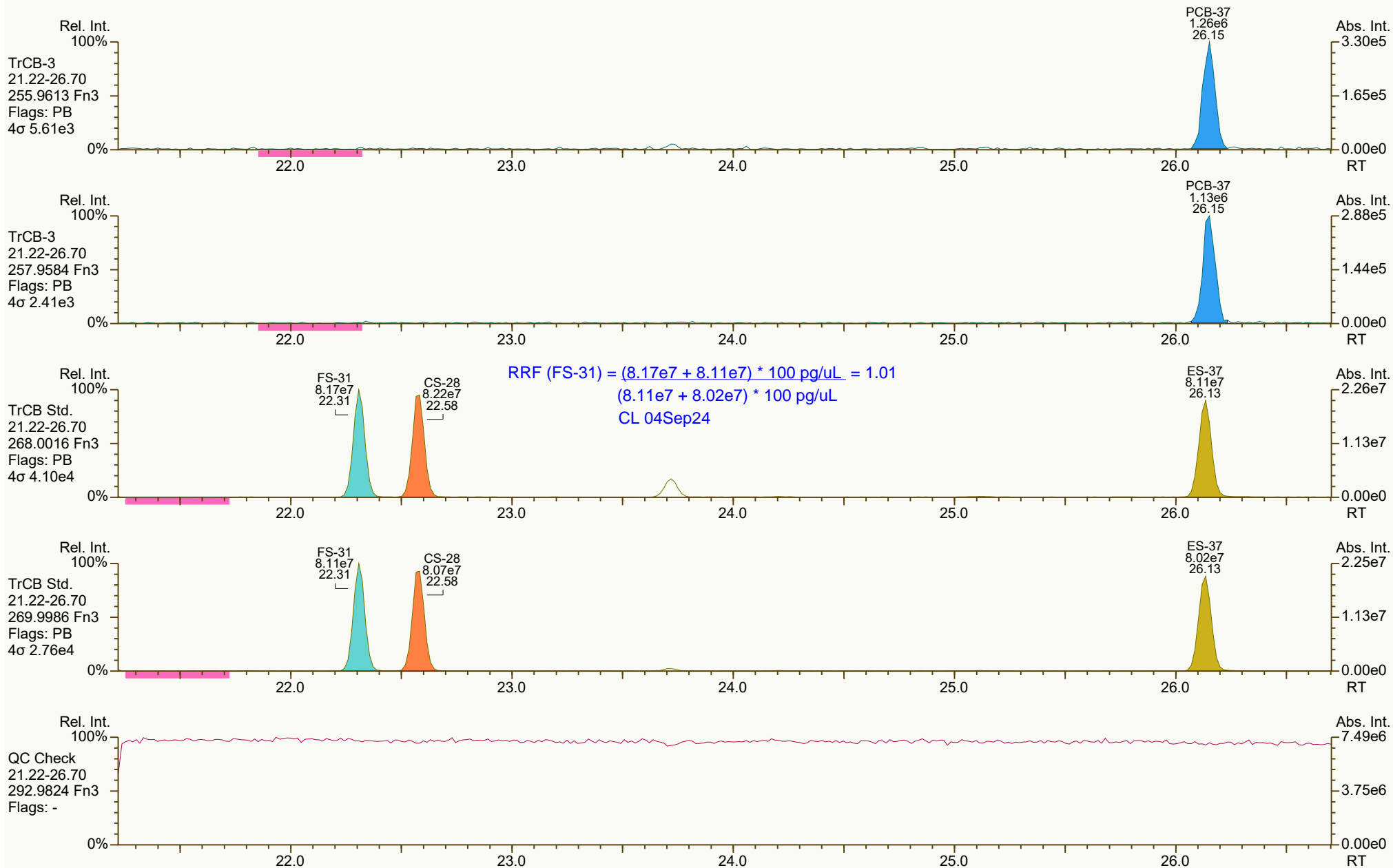
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Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 15:20 (RAB) Printed: 04-Sep-2024 13:05 Page 5 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



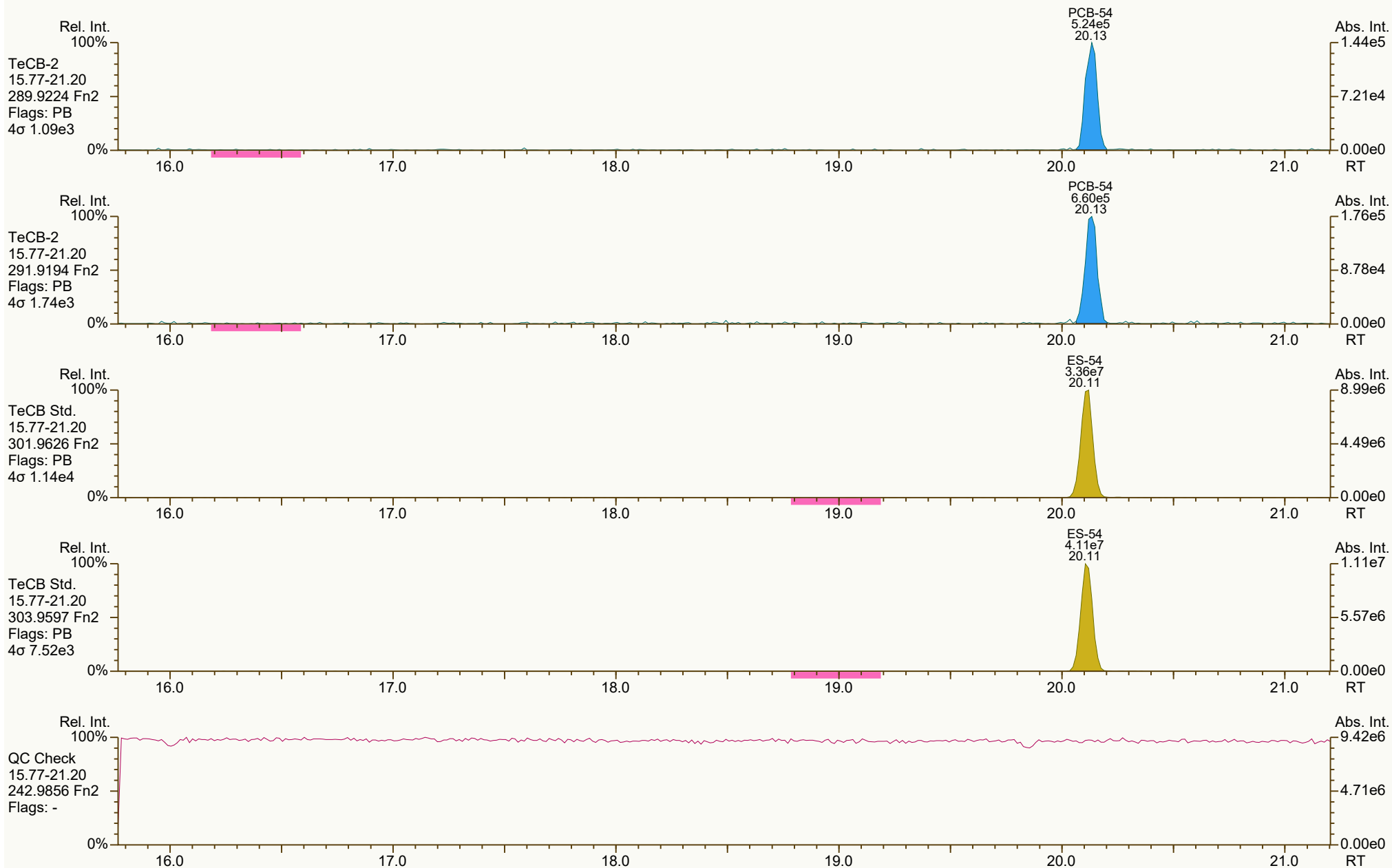
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 2050, 0995 scc: 264-967

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 15:17 Printed: 04-Sep-2024 13:05 Page 6 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS1_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 3389, 6793 scc: 264-967

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 15:17 Printed: 04-Sep-2024 13:05 Page 7 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



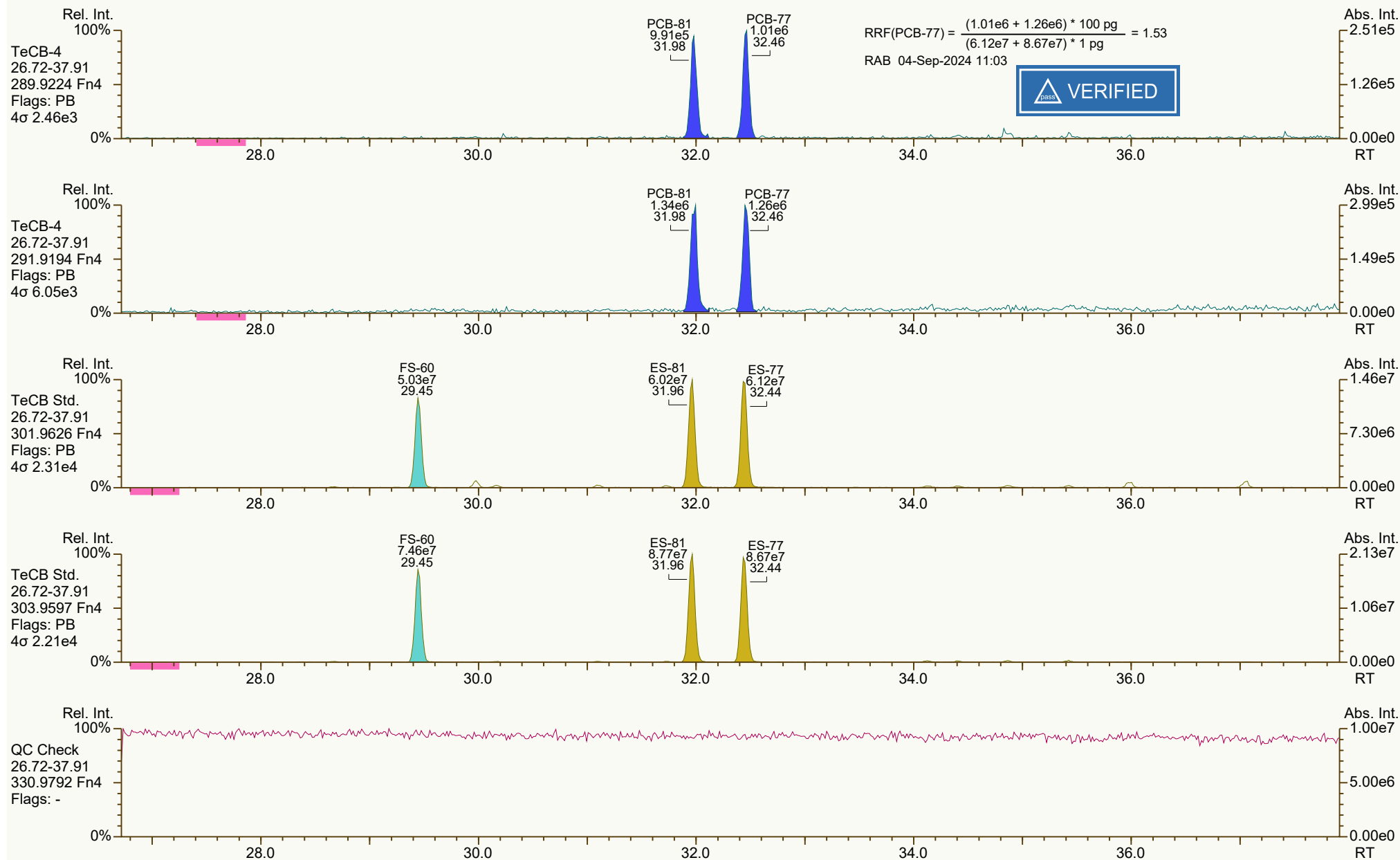
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 4047, 5004 scc: 264-967

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 15:17 Printed: 04-Sep-2024 13:05 Page 8 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



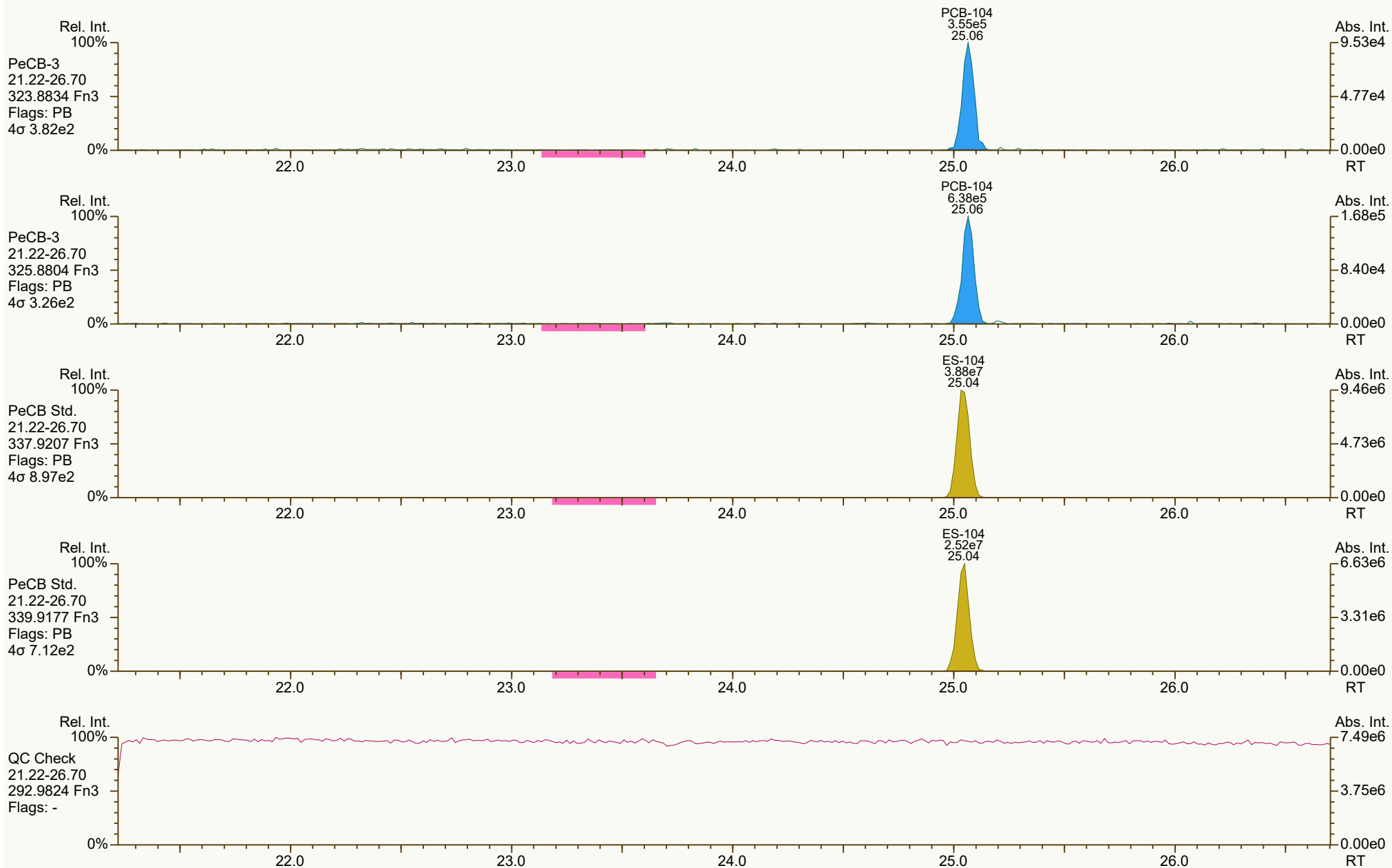
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 15:17 Printed: 04-Sep-2024 13:05 Page 9 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

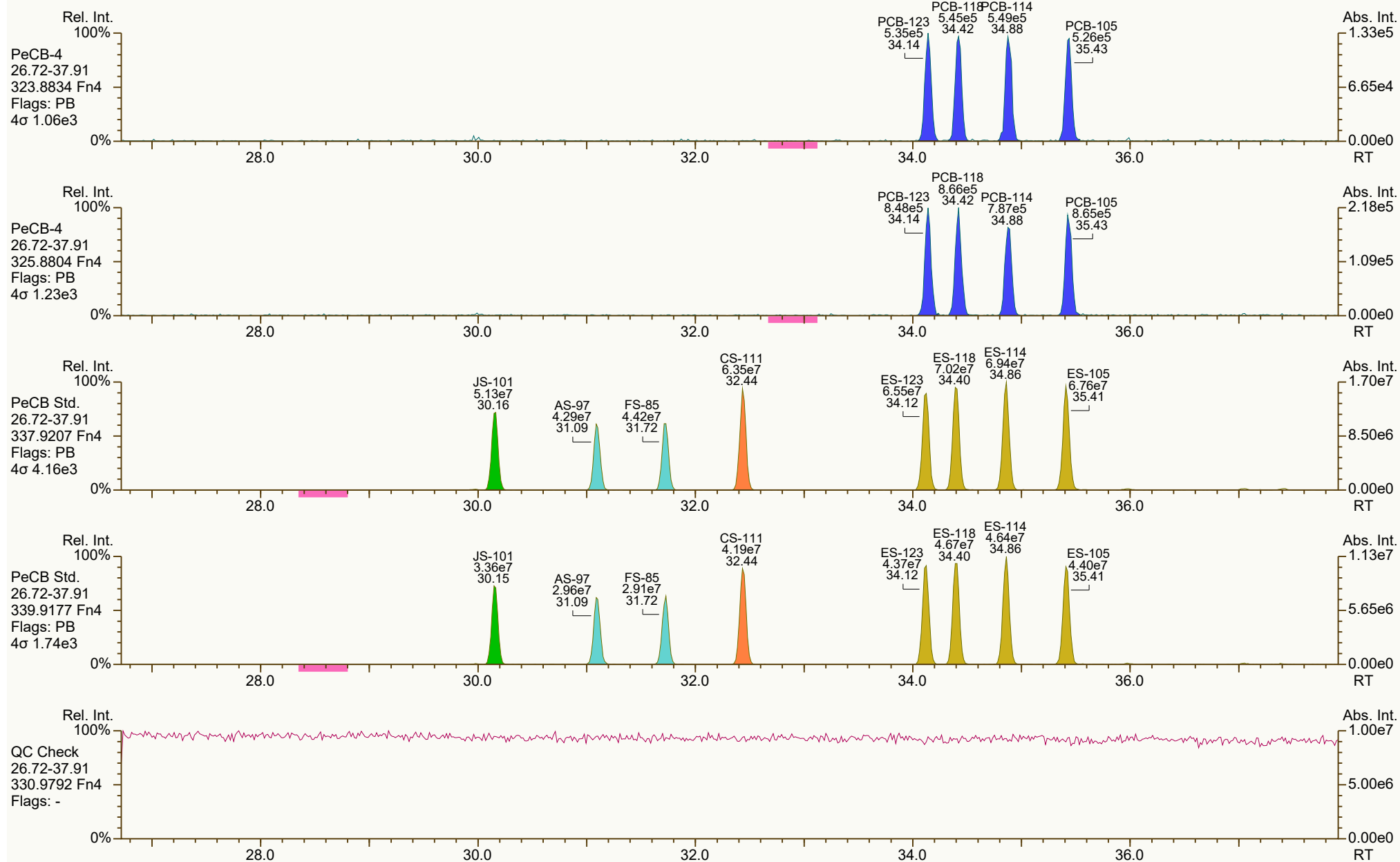
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SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 15:17 Printed: 04-Sep-2024 13:05 Page 11 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

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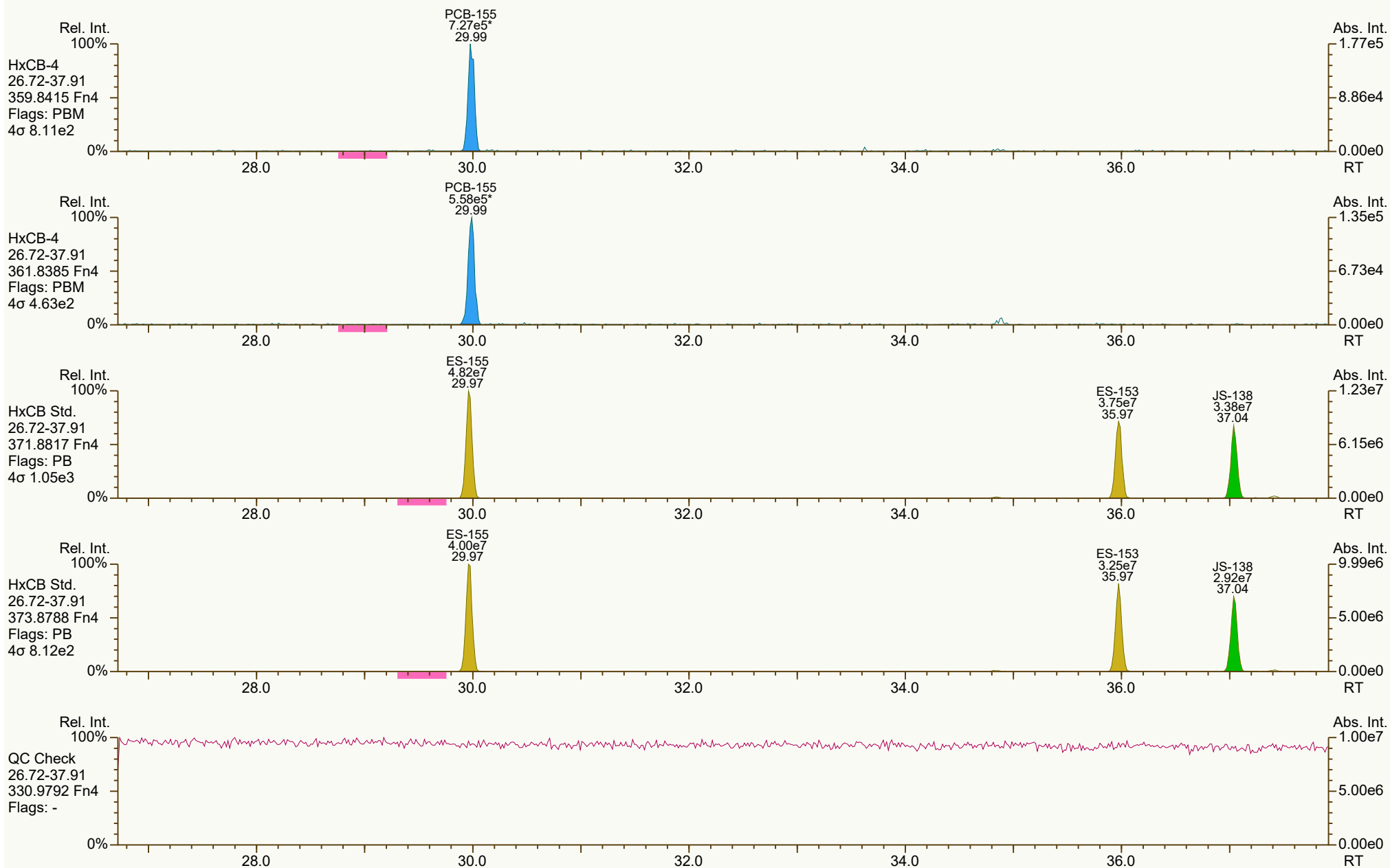
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Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 15:20 (RAB) Printed: 04-Sep-2024 13:05 Page 12 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



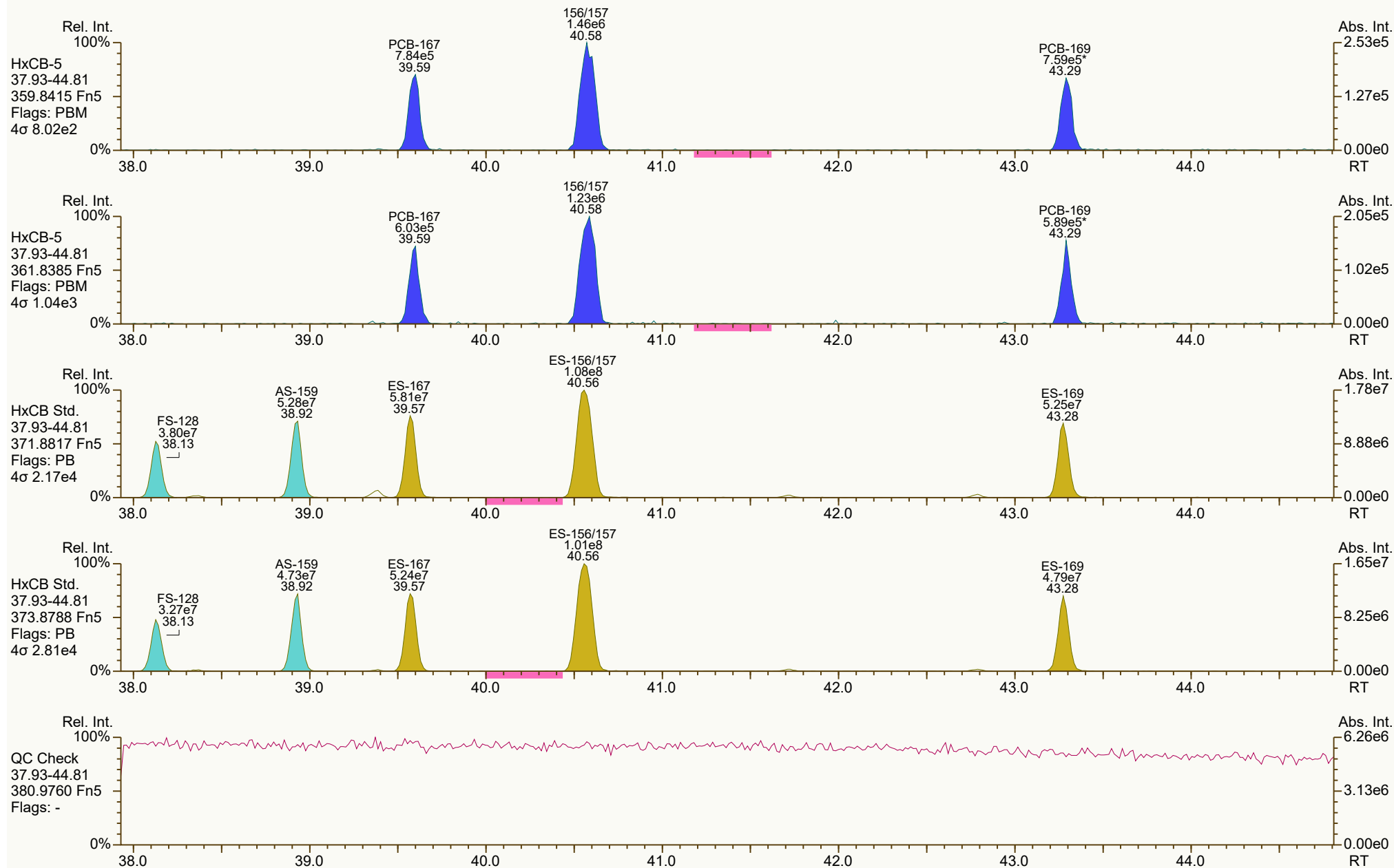
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 8866, 2962 scc: 264-967

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 15:21 (RAB) Printed: 04-Sep-2024 13:05 Page 13 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



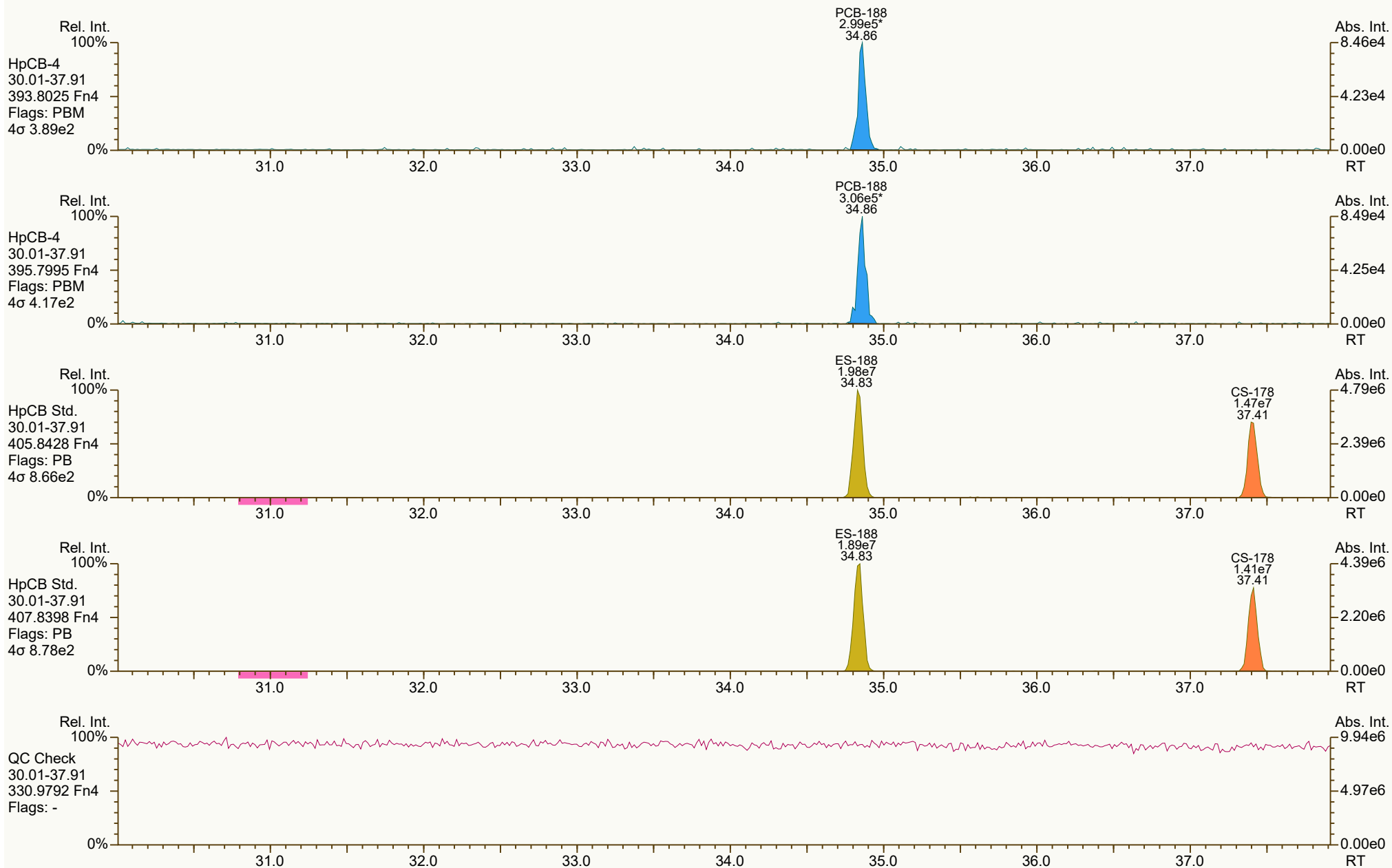
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 15:23 Printed: 04-Sep-2024 13:05 Page 14 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS1_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 0069, 6151 scc: 264-967

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 15:21 (RAB) Printed: 04-Sep-2024 13:05 Page 15 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS1_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 3204, 7130 scc: 264-967

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 15:21 (RAB) Printed: 04-Sep-2024 13:05 Page 16 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 2239, 3146 scc: 264-967

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 15:21 (RAB) Printed: 04-Sep-2024 13:05 Page 17 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



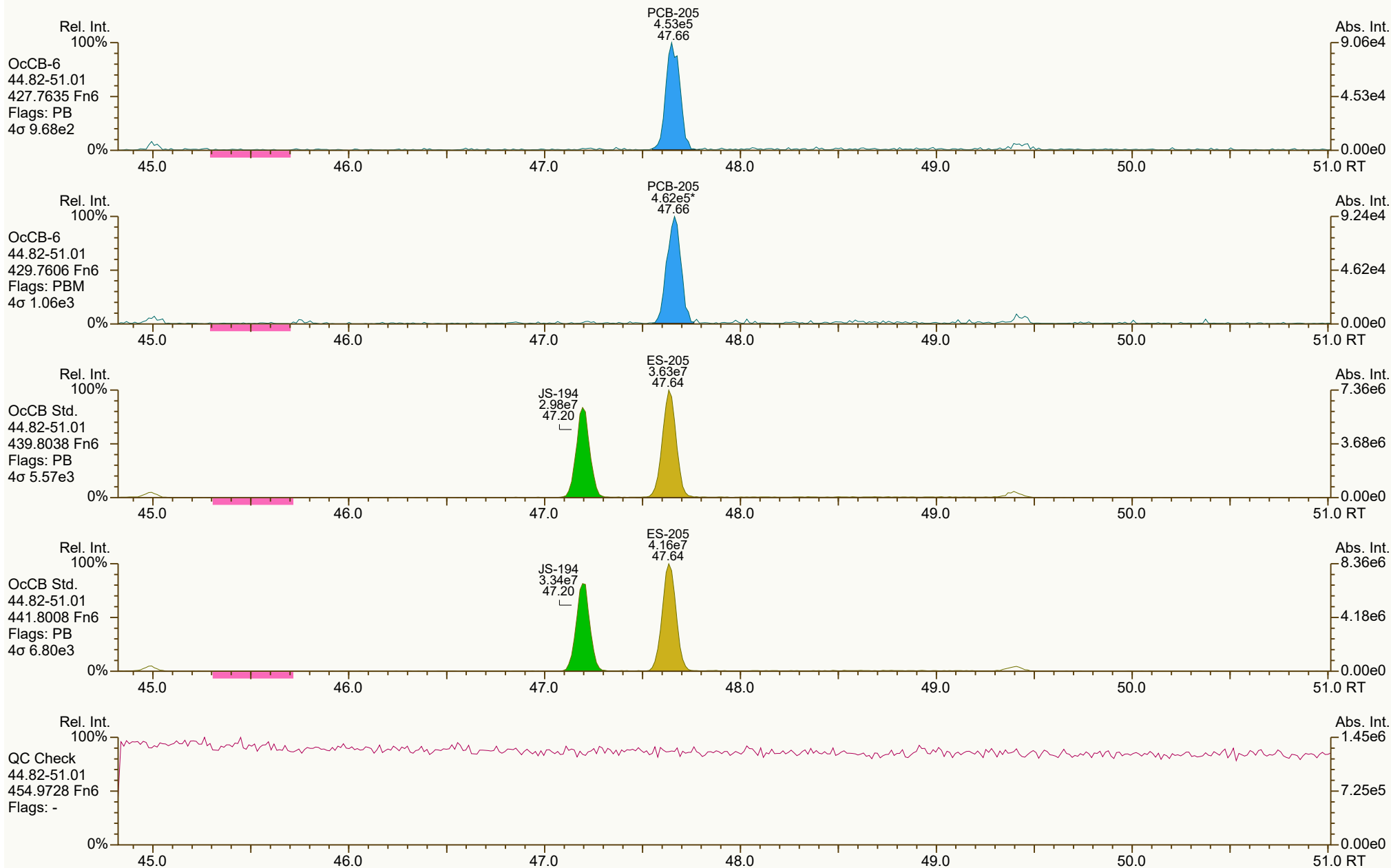
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 7795, 2687 scc: 264-967

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 15:22 (RAB) Printed: 04-Sep-2024 13:05 Page 18 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



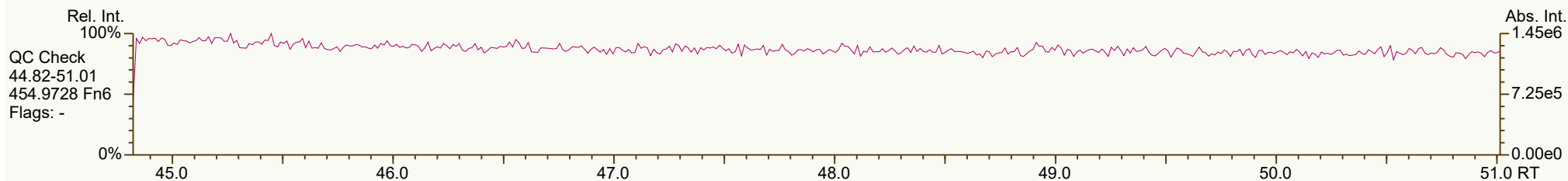
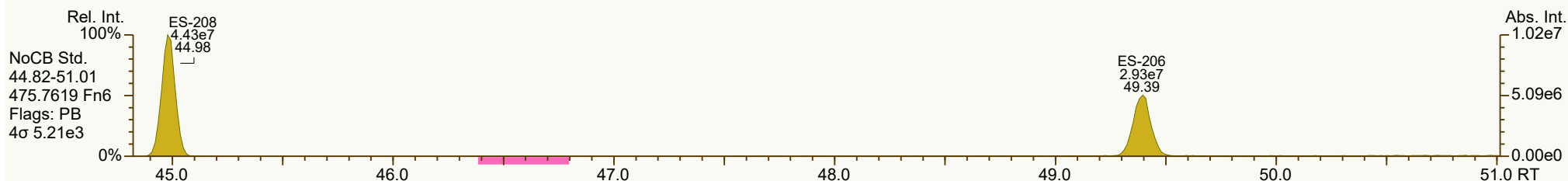
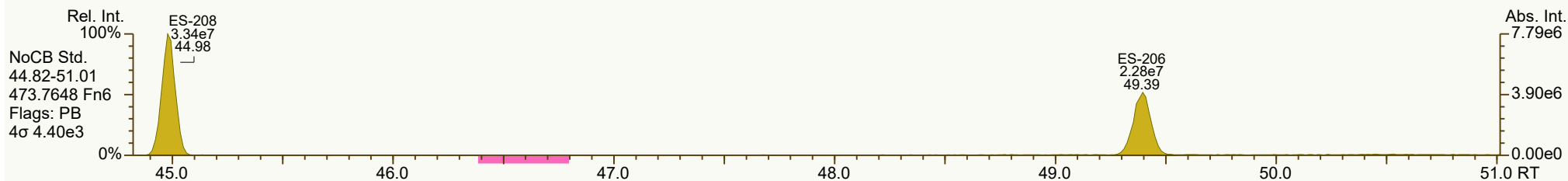
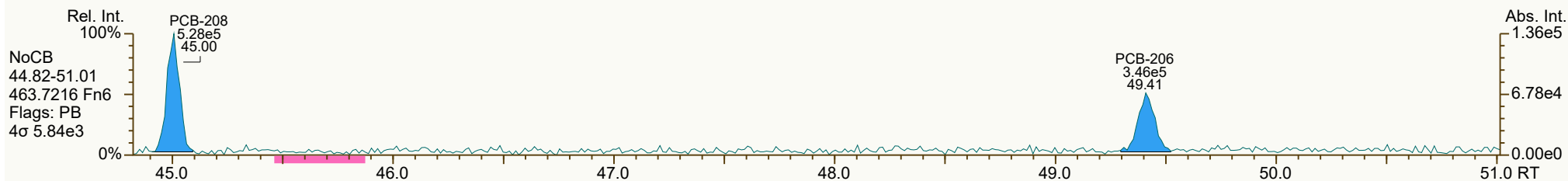
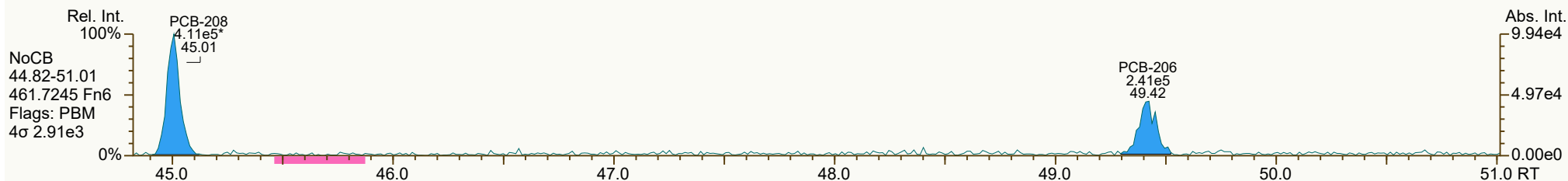
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 15:23 Printed: 04-Sep-2024 13:05 Page 19 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS1_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 3956, 4260 scc: 264-967

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 15:22 (RAB) Printed: 04-Sep-2024 13:05 Page 20 of 21

SGS ID: CS1_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 86

Acq: 03-Sep-2024 14:16:14
User: RAB Datafile: 240903S03



PCB QC Summary

SGS North America

Printed: 4-Sep-2024 13:02

Lab ID: CS2_240903_PCB_SA
 Acquired: 3-Sep-24 15:25:28
 Datafile: 240903S04

ICAL: MM4-PCB_03SEP2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-------------------------|-------|----------|--------|------|------|-------|
| PCB-77 33'44'-TeCB | 32.47 | 7.27E+06 | 0.80 Y | 1.45 | 1.45 | 0.0% |
| PCB-81 344'5'-TeCB | 31.99 | 7.47E+06 | 0.78 Y | 1.46 | 1.47 | 1.0% |
| PCB-105 233'44'-PeCB | 35.44 | 4.54E+06 | 0.67 Y | 1.18 | 1.17 | -0.6% |
| PCB-114 2344'5'-PeCB | 34.89 | 4.59E+06 | 0.66 Y | 1.14 | 1.16 | 1.6% |
| PCB-118 23'44'5'-PeCB | 34.43 | 4.79E+06 | 0.64 Y | 1.18 | 1.20 | 1.3% |
| PCB-123 23'44'5'-PeCB | 34.15 | 4.53E+06 | 0.66 Y | 1.19 | 1.19 | 0.1% |
| PCB-126 33'44'5'-PeCB | 38.05 | 6.27E+06 | 0.63 Y | 1.35 | 1.33 | -2.0% |
| PCB-156/157 ...-HxCB | 40.59 | 8.81E+06 | 1.20 Y | 1.23 | 1.24 | 0.6% |
| PCB-167 23'44'55'-HxCB | 39.60 | 4.62E+06 | 1.24 Y | 1.22 | 1.25 | 2.7% |
| PCB-169 33'44'55'-HxCB | 43.30 | 4.26E+06 | 1.26 Y | 1.23 | 1.26 | 2.2% |
| PCB-189 233'44'55'-HpCB | 45.41 | 4.89E+06 | 1.00 Y | 1.31 | 1.35 | 3.7% |
| PCB-209 DeCB | 51.27 | 2.15E+06 | 1.20 Y | 1.08 | 1.08 | 0.1% |
| | | | | | | |
| ES PCB-1 | 11.66 | 1.57E+08 | 3.22 Y | 1.09 | 1.10 | 1.7% |
| ES PCB-3 | 13.92 | 1.51E+08 | 3.23 Y | 1.06 | 1.06 | -0.1% |
| ES PCB-4 | 14.17 | 7.01E+07 | 1.54 Y | 0.52 | 0.49 | -5.0% |
| ES PCB-15 | 19.84 | 1.58E+08 | 1.53 Y | 1.11 | 1.11 | -0.3% |
| ES PCB-19 | 17.23 | 7.71E+07 | 1.05 Y | 0.54 | 0.54 | 0.4% |
| ES PCB-37 | 26.14 | 1.15E+08 | 1.04 Y | 1.71 | 1.72 | 0.7% |
| ES PCB-54 | 20.12 | 5.13E+07 | 0.84 Y | 0.78 | 0.77 | -1.1% |
| ES PCB-77 | 32.45 | 1.00E+08 | 0.69 Y | 1.53 | 1.50 | -1.5% |
| ES PCB-81 | 31.97 | 1.01E+08 | 0.68 Y | 1.55 | 1.52 | -2.2% |
| ES PCB-104 | 25.05 | 4.35E+07 | 1.52 Y | 0.74 | 0.74 | -1.0% |
| ES PCB-105 | 35.42 | 7.73E+07 | 1.54 Y | 1.31 | 1.31 | -0.1% |
| ES PCB-114 | 34.87 | 7.89E+07 | 1.52 Y | 1.34 | 1.33 | -0.8% |
| ES PCB-118 | 34.41 | 8.00E+07 | 1.48 Y | 1.35 | 1.35 | -0.1% |
| ES PCB-123 | 34.13 | 7.61E+07 | 1.46 Y | 1.29 | 1.29 | -0.3% |
| ES PCB-126 | 38.03 | 9.46E+07 | 1.45 Y | 1.59 | 1.60 | 0.2% |
| ES PCB-153 | 35.98 | 4.91E+07 | 1.18 Y | 1.10 | 1.14 | 3.4% |
| ES PCB-155 | 29.97 | 6.01E+07 | 1.21 Y | 1.38 | 1.39 | 1.1% |
| ES PCB-156/157 | 40.57 | 1.42E+08 | 1.12 Y | 1.62 | 1.65 | 1.7% |
| ES PCB-167 | 39.58 | 7.40E+07 | 1.11 Y | 1.70 | 1.71 | 0.7% |
| ES PCB-169 | 43.28 | 6.76E+07 | 1.09 Y | 1.55 | 1.57 | 0.7% |
| ES PCB-170 | 42.79 | 4.47E+07 | 0.95 Y | 1.06 | 1.08 | 1.7% |
| ES PCB-180 | 41.72 | 5.55E+07 | 0.98 Y | 1.30 | 1.34 | 2.8% |
| ES PCB-188 | 34.84 | 2.85E+07 | 1.04 Y | 0.63 | 0.66 | 5.5% |
| ES PCB-189 | 45.40 | 7.22E+07 | 0.92 Y | 1.71 | 1.74 | 1.7% |
| ES PCB-202 | 39.37 | 4.20E+07 | 0.89 Y | 0.96 | 0.97 | 1.5% |
| ES PCB-205 | 47.64 | 5.14E+07 | 0.86 Y | 1.23 | 1.24 | 0.3% |
| ES PCB-206 | 49.40 | 3.56E+07 | 0.80 Y | 0.84 | 0.86 | 1.9% |
| ES PCB-208 | 44.99 | 5.34E+07 | 0.79 Y | 1.25 | 1.29 | 2.7% |
| ES PCB-209 | 51.24 | 3.99E+07 | 1.20 Y | 0.94 | 0.96 | 1.9% |

PCB QC Summary

SGS North America

Printed: 4-Sep-2024 13:02

Lab ID: CS2_240903_PCB_SA
 Acquired: 3-Sep-24 15:25:28
 Datafile: 240903S04

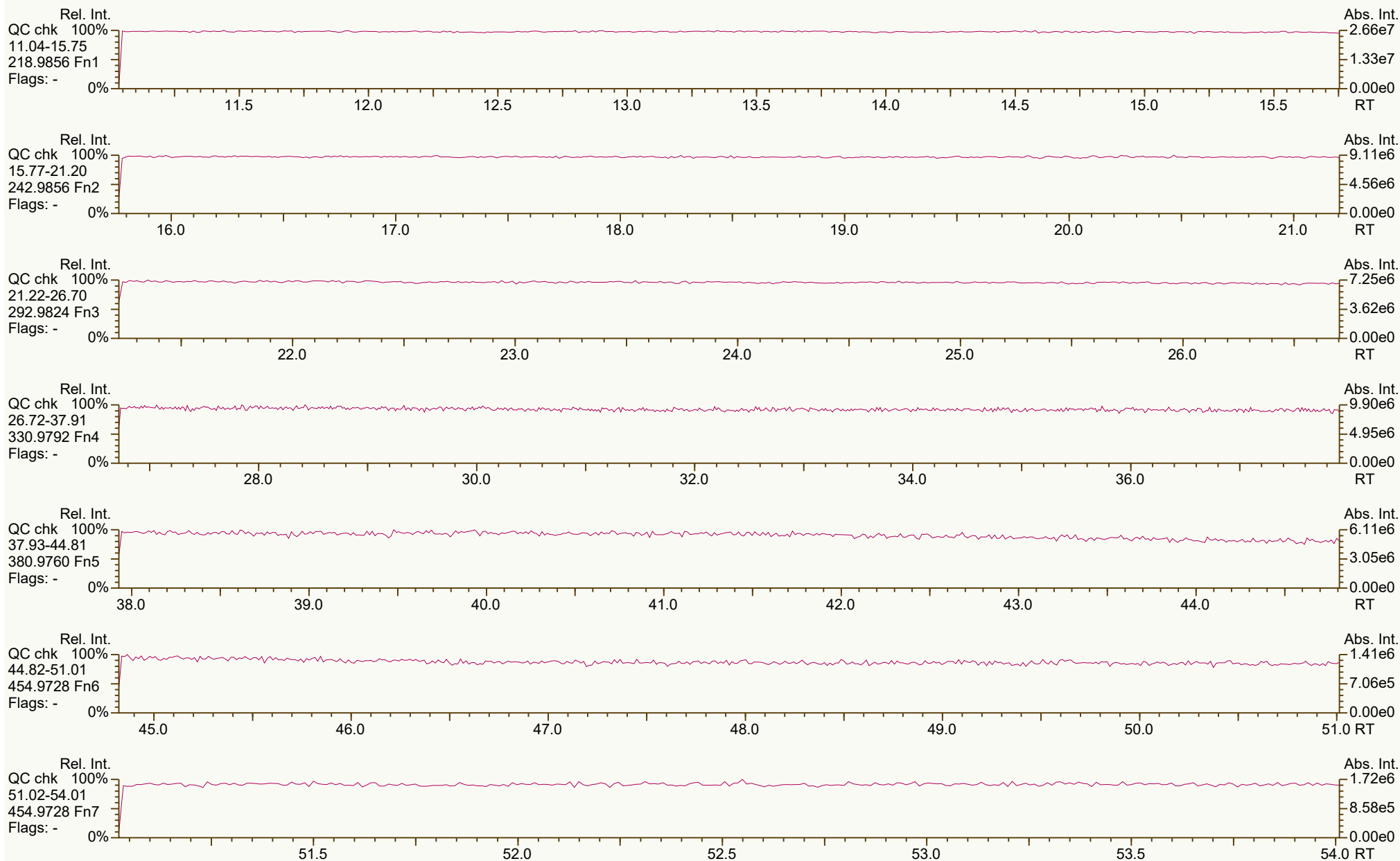
ICAL: MM4-PCB_03SEP2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-----------------------------|--------|----------|--------|------|------|-------|
| SS PCB-28 | 22.58 | 1.15E+08 | 1.01 Y | 1.01 | 1.01 | -0.7% |
| SS PCB-111 | 32.44 | 7.21E+07 | 1.50 Y | 0.97 | 0.95 | -2.2% |
| SS PCB-178 | 37.41 | 2.08E+07 | 1.05 Y | 0.74 | 0.73 | -1.3% |
| CS PCB-28 | 22.58 | 1.15E+08 | 1.01 Y | 1.73 | 1.73 | -0.1% |
| CS PCB-111 | 32.44 | 7.21E+07 | 1.50 Y | 1.25 | 1.22 | -2.5% |
| CS PCB-178 | 37.41 | 2.08E+07 | 1.05 Y | 0.46 | 0.48 | 4.2% |
| JS PCB-9 | 16.13 | 1.42E+08 | 1.53 Y | - | - | - |
| JS PCB-52 | 24.20 | 6.68E+07 | 0.74 Y | - | - | - |
| JS PCB-101 | 30.16 | 5.92E+07 | 1.51 Y | - | - | - |
| JS PCB-138 | 37.05 | 4.32E+07 | 1.19 Y | - | - | - |
| JS PCB-194 | 47.20 | 4.16E+07 | 0.86 Y | - | - | - |
| PCB-1 2-MoCB | 11.67 | 1.13E+07 | 2.99 Y | 1.47 | 1.43 | -2.8% |
| PCB-3 4-MoCB | 13.93 | 1.08E+07 | 3.02 Y | 1.45 | 1.43 | -1.5% |
| PCB-4 22'-DiCB | 14.19 | 4.55E+06 | 1.50 Y | 1.30 | 1.30 | 0.3% |
| PCB-15 44'-DiCB | 19.86 | 1.00E+07 | 1.46 Y | 1.31 | 1.27 | -3.2% |
| PCB-19 22'6'-TrCB | 17.25 | 4.52E+06 | 1.07 Y | 1.16 | 1.17 | 0.7% |
| PCB-37 344'-TrCB | 26.16 | 8.24E+06 | 1.07 Y | 1.43 | 1.44 | 0.3% |
| PCB-54 22'66'-TeCB | 20.14 | 4.06E+06 | 0.77 Y | 1.52 | 1.58 | 4.1% |
| PCB-104 22'466'-PeCB | 25.07 | 3.21E+06 | 0.61 Y | 1.46 | 1.47 | 0.8% |
| PCB-155 22'44'66'-HxCB | 30.00 | 4.20E+06 | 1.27 Y | 1.36 | 1.40 | 3.1% |
| PCB-188 22'34'566'-HpCB | 34.86 | 2.21E+06 | 1.12 Y | 1.55 | 1.55 | 0.0% |
| PCB-202 22'33'55'66'-OcCB | 39.40 | 2.80E+06 | 0.85 Y | 1.32 | 1.33 | 1.0% |
| PCB-205 233'44'55'6'-OcCB | 47.67 | 2.88E+06 | 0.89 Y | 1.12 | 1.12 | 0.2% |
| PCB-208 22'33'455'66'-NoCB | 45.01 | 2.92E+06 | 0.77 Y | 1.11 | 1.09 | -1.2% |
| PCB-206 22'33'44'55'6'-NoCB | 49.42 | 1.91E+06 | 0.76 Y | 1.04 | 1.07 | 3.4% |
| FS PCB-8 | 16.94 | 1.40E+08 | 1.54 Y | 0.90 | 0.89 | -0.9% |
| FS PCB-31 | 22.318 | 1.16E+08 | 1.01 Y | 1.03 | 1.01 | -2.1% |
| FS PCB-60 | 29.455 | 8.80E+07 | 0.68 Y | 0.87 | 0.87 | 0.0% |
| FS PCB-85 | 31.73 | 5.03E+07 | 1.43 Y | 0.68 | 0.66 | -3.3% |
| FS PCB-128 | 38.14 | 4.65E+07 | 1.10 Y | 0.66 | 0.63 | -5.3% |
| FS PCB-182 | 38.359 | 4.78E+07 | 1.00 Y | 0.90 | 0.86 | -4.0% |
| AS PCB-32 | 20.27 | 1.06E+08 | 1.05 Y | 0.77 | 0.74 | -3.7% |
| AS PCB-97 | 31.10 | 4.88E+07 | 1.53 Y | 0.86 | 0.83 | -4.4% |
| AS PCB-159 NR - CL 04Sep24 | 36.93 | 6.81E+07 | 1.11 Y | 1.57 | 1.56 | 0.2% |

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



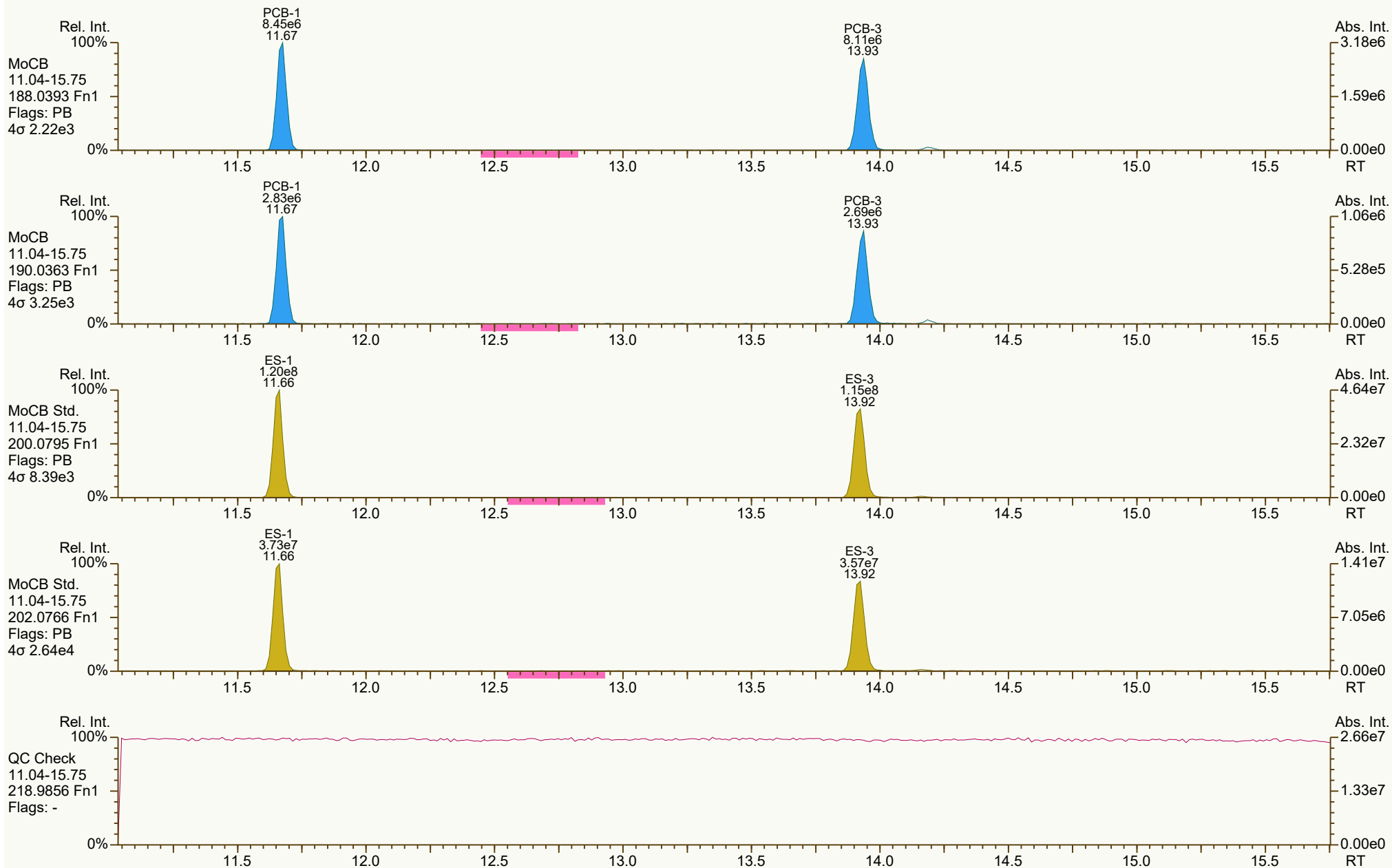
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX scc: 815-850

Peak annotation: Areas, Centroids
PKD: n/a Printed: 04-Sep-2024 13:05 Page 1 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

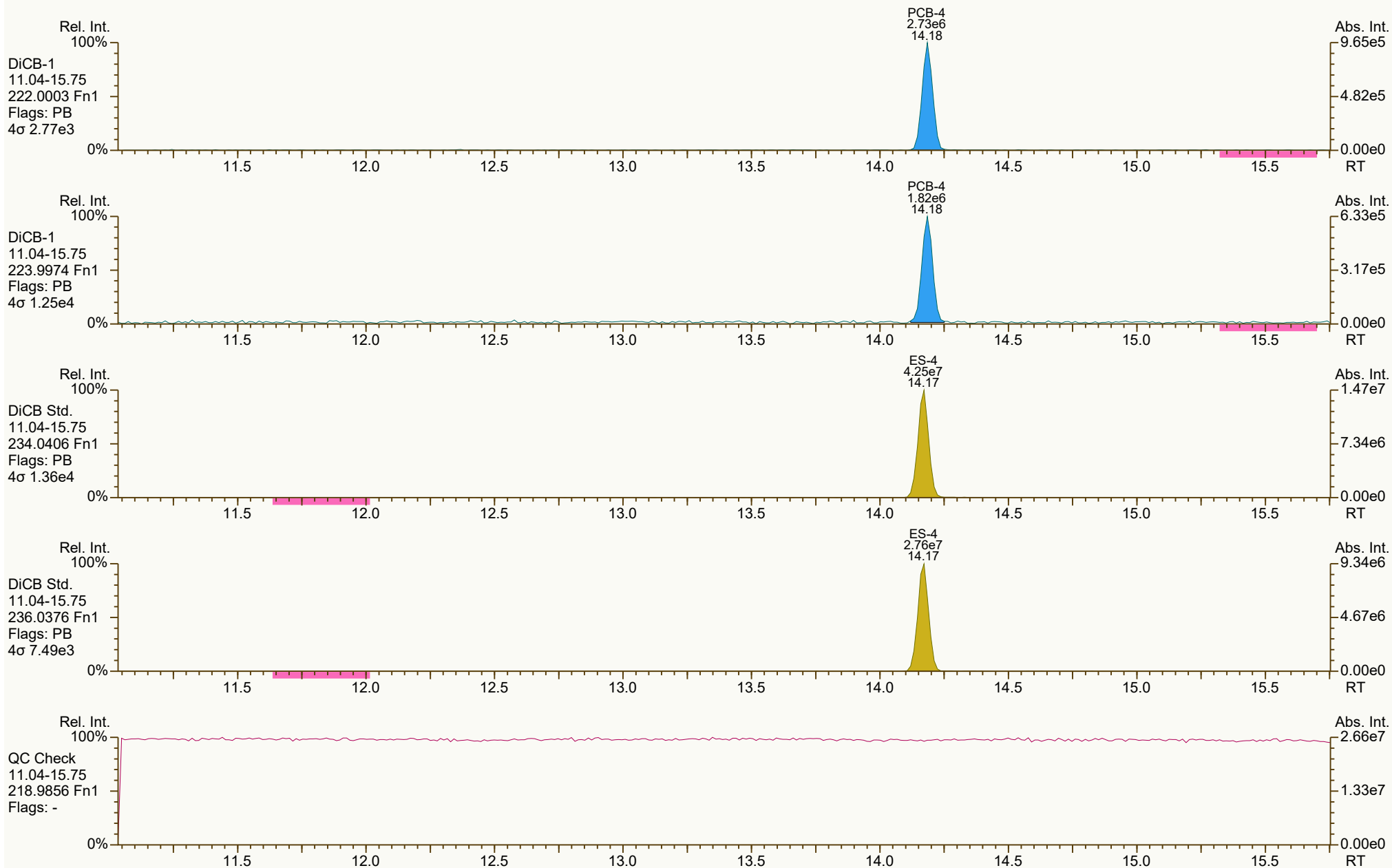
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User: RAB Datafile: 240903S04



SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 16:34 Printed: 04-Sep-2024 13:05 Page 3 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



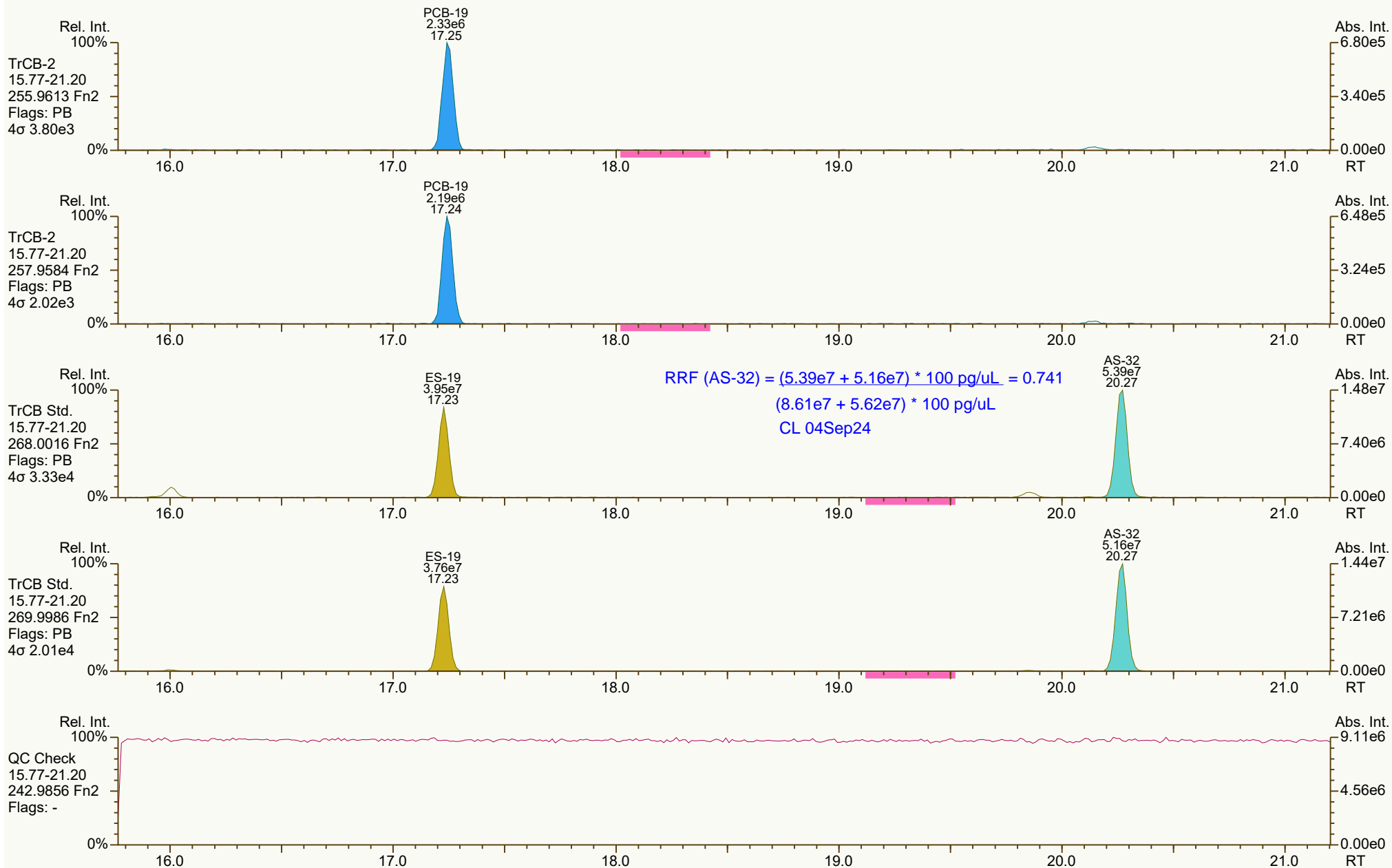
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Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 16:36 (RAB) Printed: 04-Sep-2024 13:05 Page 4 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 16:34 Printed: 04-Sep-2024 13:05 Page 5 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 16:34 Printed: 04-Sep-2024 13:05 Page 6 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



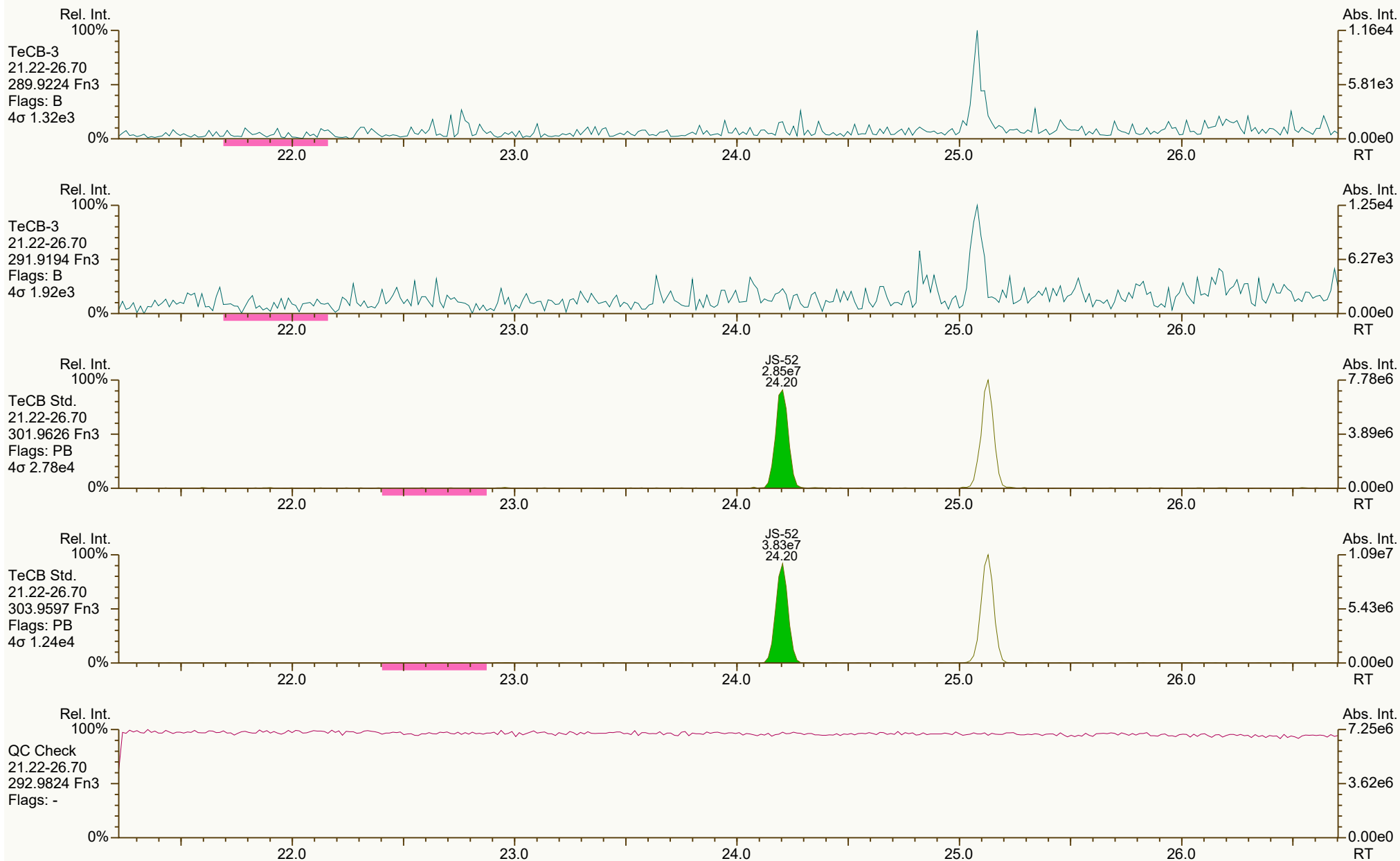
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Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 16:34 (RAB) Printed: 04-Sep-2024 13:06 Page 7 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



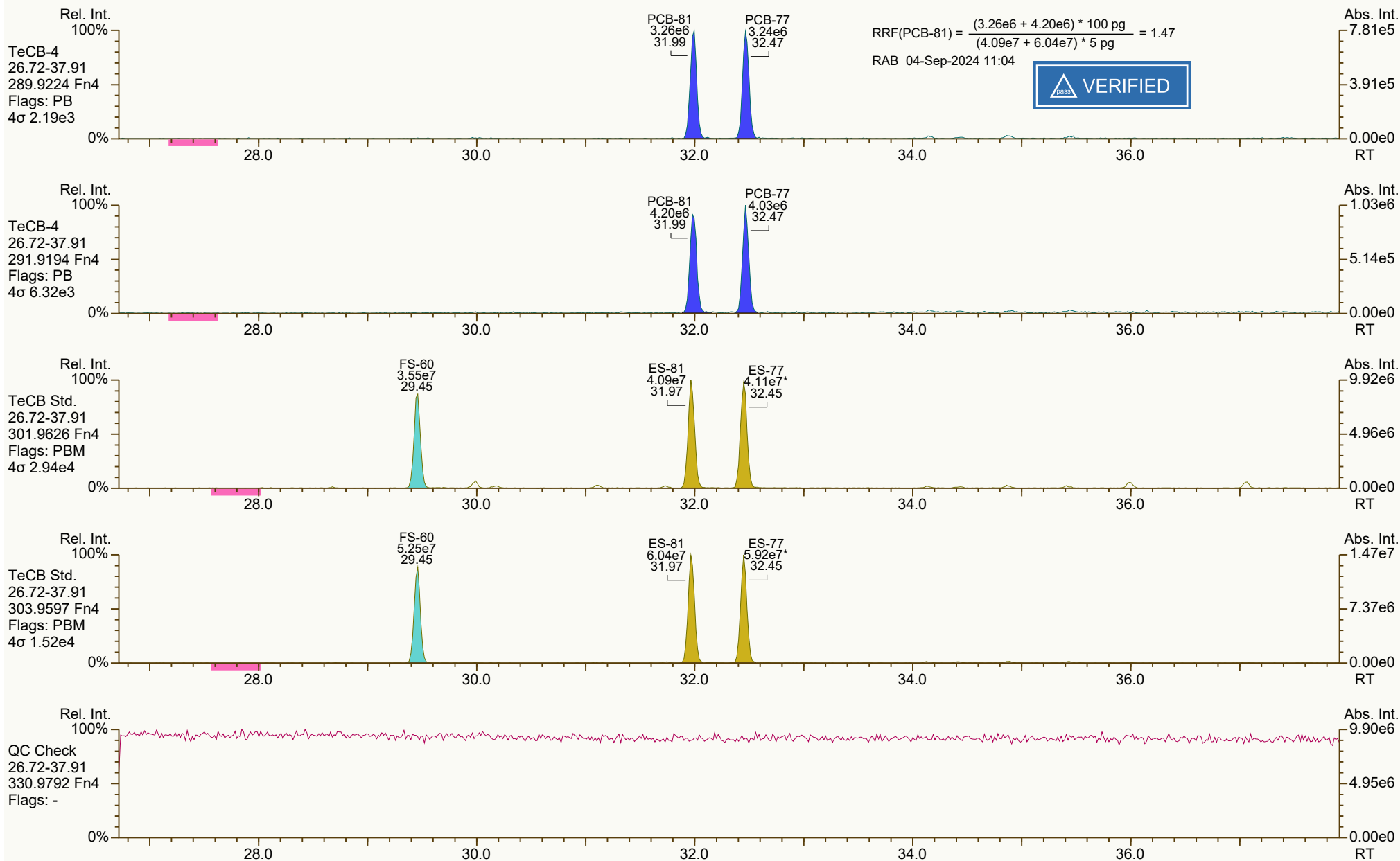
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 16:34 Printed: 04-Sep-2024 13:06 Page 8 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



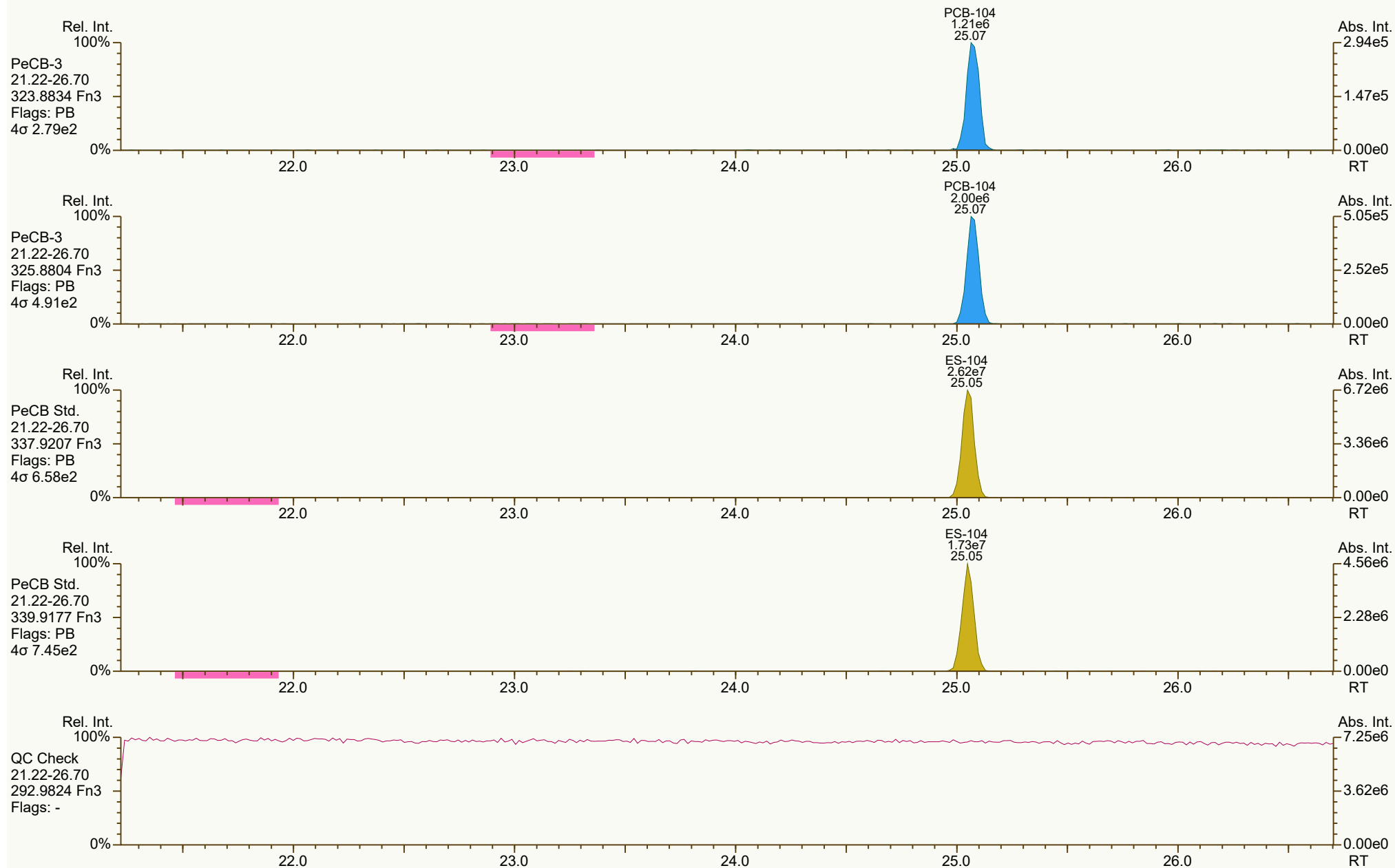
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 7626, 1833 scc: 815-850

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 16:35 (RAB) Printed: 04-Sep-2024 13:06 Page 9 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

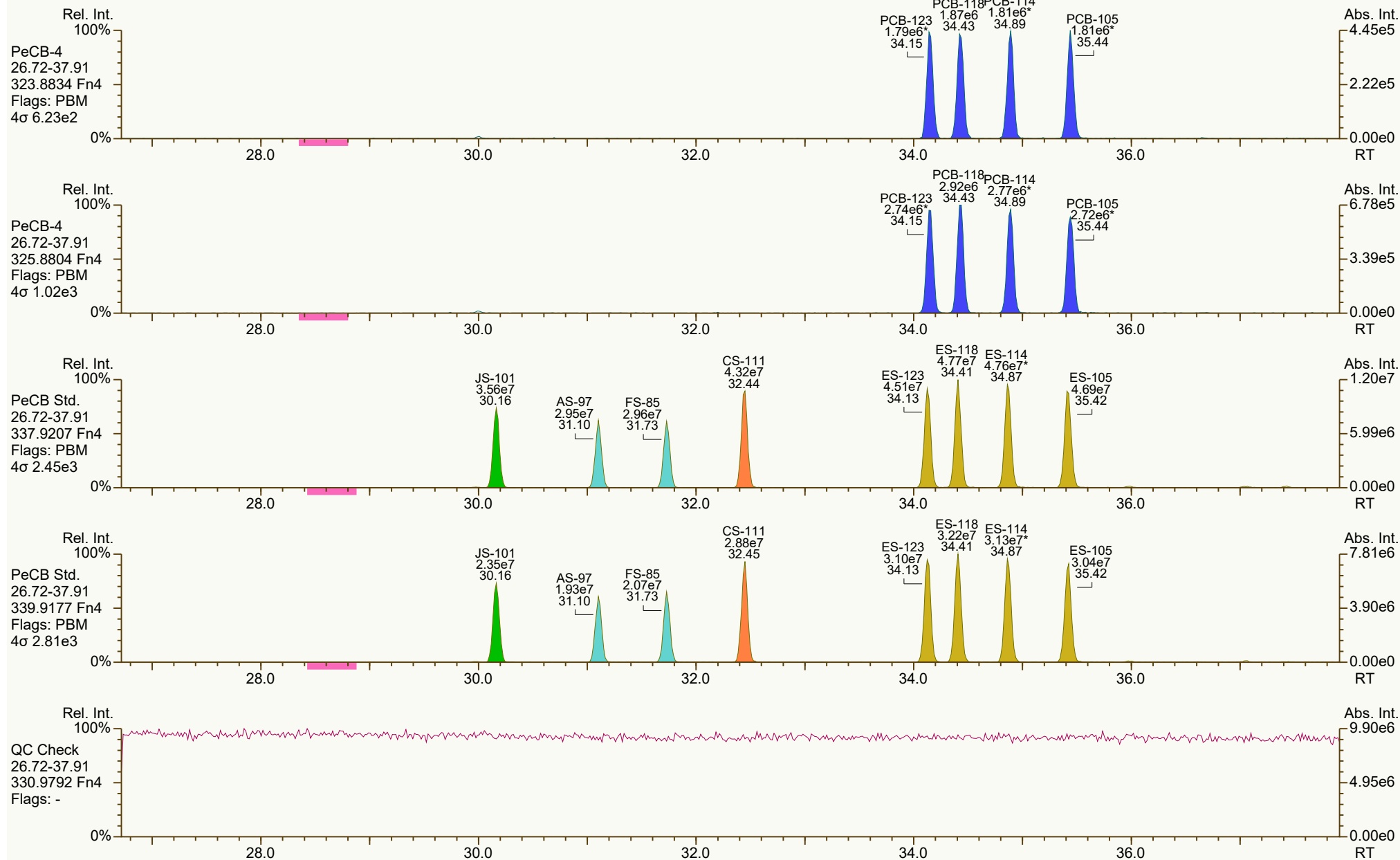
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SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 7261, 3492 scc: 815-850

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 16:38 Printed: 04-Sep-2024 13:06 Page 11 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 4789, 9263 scc: 815-850

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 12:31 Printed: 04-Sep-2024 13:06 Page 12 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



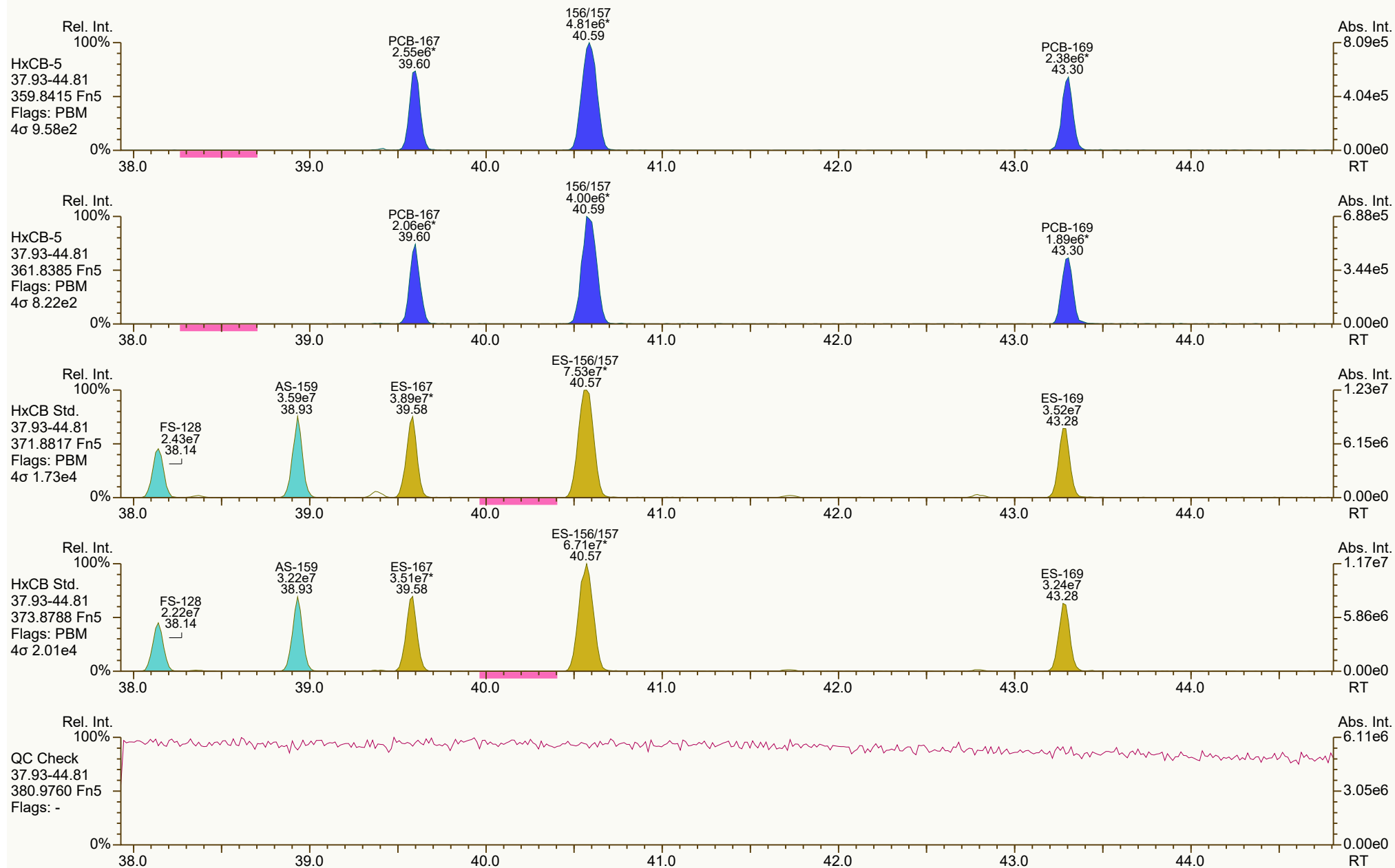
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 16:34 Printed: 04-Sep-2024 13:06 Page 13 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



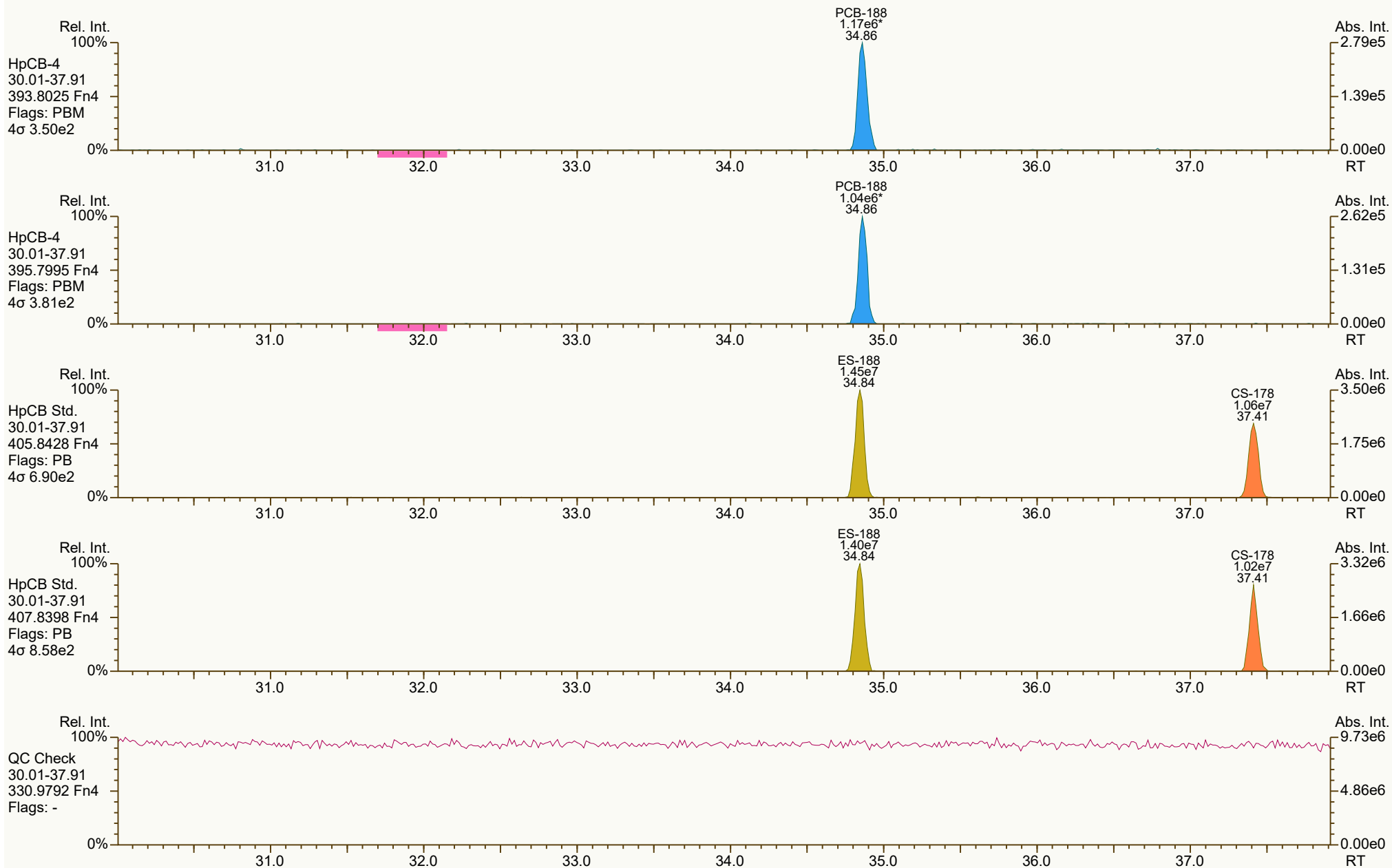
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 16:38 Printed: 04-Sep-2024 13:06 Page 14 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 2349, 8934 scc: 815-850

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 16:38 (RAB) Printed: 04-Sep-2024 13:06 Page 15 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 16:38 Printed: 04-Sep-2024 13:06 Page 16 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



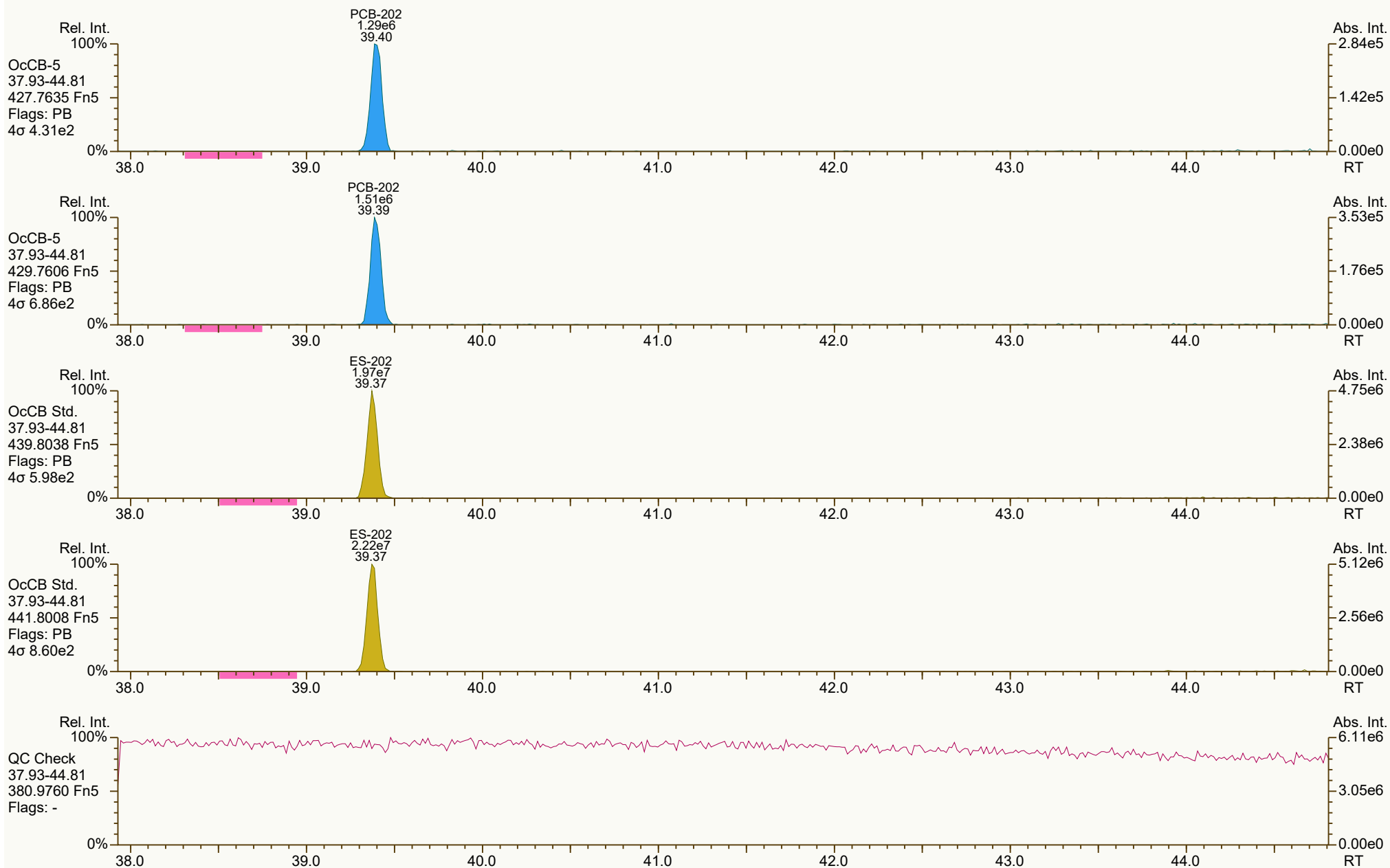
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 16:38 Printed: 04-Sep-2024 13:06 Page 17 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



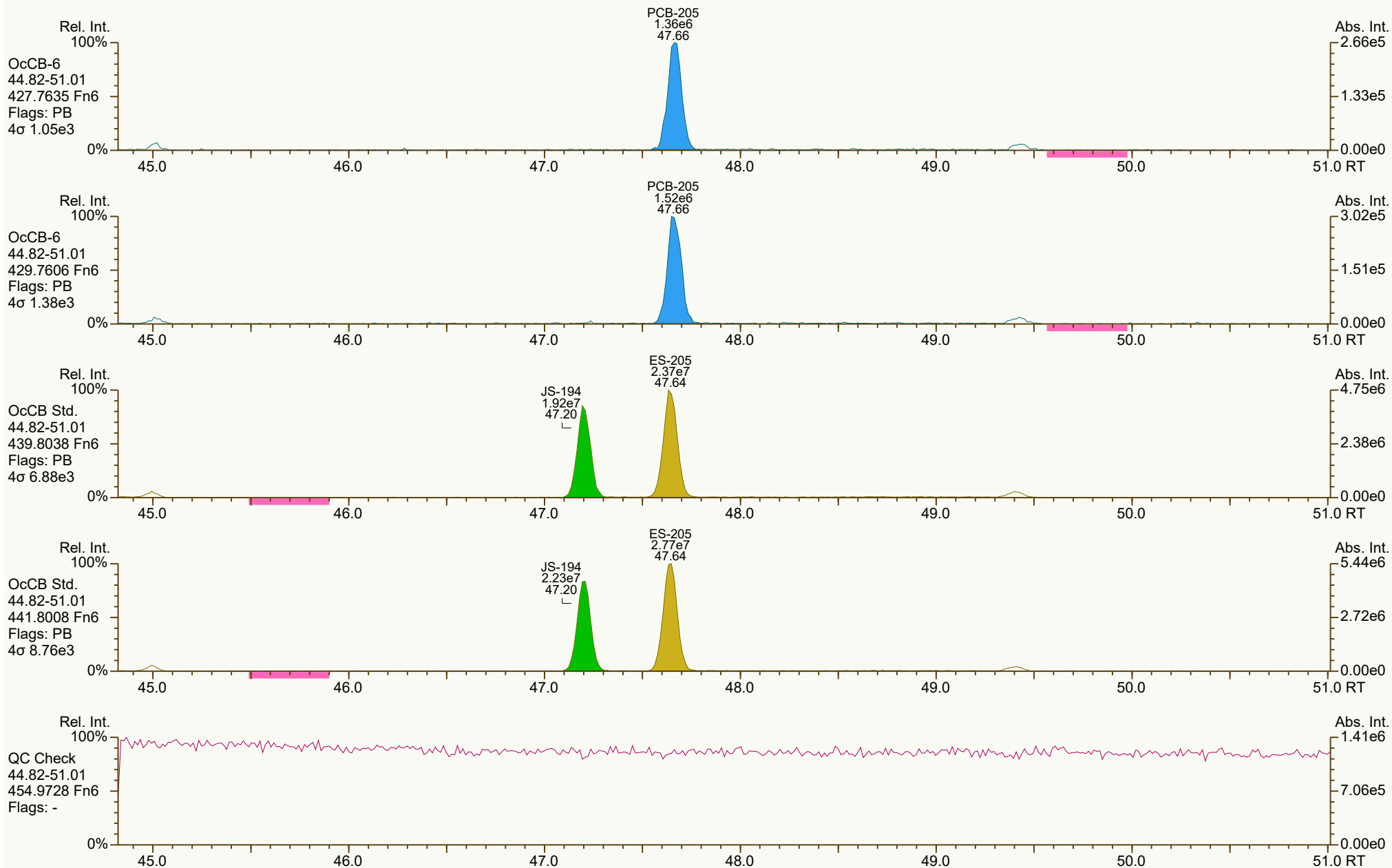
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 16:34 Printed: 04-Sep-2024 13:06 Page 18 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
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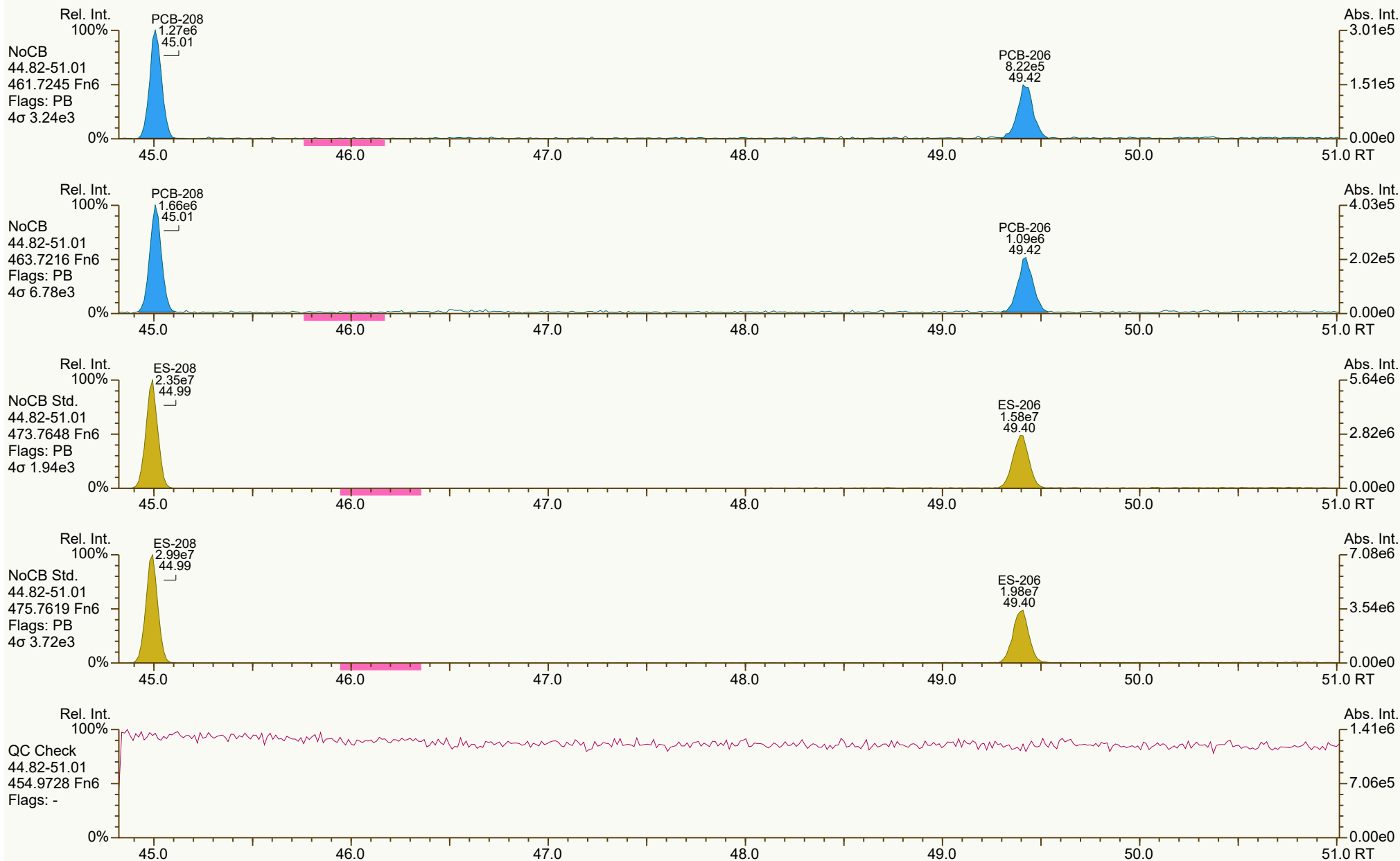
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 16:34 Printed: 04-Sep-2024 13:06 Page 19 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 16:34 Printed: 04-Sep-2024 13:06 Page 20 of 21

SGS ID: CS2_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-59-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 87

Acq: 03-Sep-2024 15:25:28
User: RAB Datafile: 240903S04



PCB QC Summary

SGS North America

Printed: 4-Sep-2024 13:02

Lab ID: CS3_240903_PCB_SA
 Acquired: 3-Sep-24 16:44:07
 Datafile: 240903S05

ICAL: MM4-PCB_03SEP2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-------------------------|-------|----------|--------|------|------|--------|
| PCB-77 33'44'-TeCB | 32.46 | 8.24E+07 | 0.80 Y | 1.45 | 1.34 | -7.3% |
| PCB-81 344'5'-TeCB | 31.98 | 8.26E+07 | 0.79 Y | 1.46 | 1.35 | -7.4% |
| PCB-105 233'44'-PeCB | 35.43 | 5.13E+07 | 0.64 Y | 1.18 | 1.14 | -3.9% |
| PCB-114 2344'5'-PeCB | 34.88 | 5.13E+07 | 0.65 Y | 1.14 | 1.11 | -3.1% |
| PCB-118 23'44'5'-PeCB | 34.42 | 5.30E+07 | 0.65 Y | 1.18 | 1.12 | -5.3% |
| PCB-123 23'44'5'-PeCB | 34.14 | 5.05E+07 | 0.64 Y | 1.19 | 1.15 | -3.6% |
| PCB-126 33'44'5'-PeCB | 38.04 | 7.05E+07 | 0.64 Y | 1.35 | 1.25 | -7.8% |
| PCB-156/157 ...-HxCB | 40.57 | 9.96E+07 | 1.24 Y | 1.23 | 1.19 | -3.4% |
| PCB-167 23'44'55'-HxCB | 39.58 | 5.24E+07 | 1.23 Y | 1.22 | 1.17 | -3.8% |
| PCB-169 33'44'55'-HxCB | 43.29 | 4.85E+07 | 1.24 Y | 1.23 | 1.18 | -4.7% |
| PCB-189 233'44'55'-HpCB | 45.40 | 5.43E+07 | 1.04 Y | 1.31 | 1.22 | -6.8% |
| PCB-209 DeCB | 51.25 | 2.51E+07 | 1.18 Y | 1.08 | 1.04 | -3.5% |
| | | | | | | |
| ES PCB-1 | 11.65 | 1.73E+08 | 3.12 Y | 1.09 | 1.03 | -5.1% |
| ES PCB-3 | 13.91 | 1.68E+08 | 3.19 Y | 1.06 | 1.00 | -5.7% |
| ES PCB-4 | 14.16 | 7.59E+07 | 1.56 Y | 0.52 | 0.45 | -12.8% |
| ES PCB-15 | 19.83 | 1.80E+08 | 1.53 Y | 1.11 | 1.07 | -3.6% |
| ES PCB-19 | 17.22 | 8.37E+07 | 1.05 Y | 0.54 | 0.50 | -7.7% |
| ES PCB-37 | 26.13 | 1.32E+08 | 1.03 Y | 1.71 | 1.75 | 2.8% |
| ES PCB-54 | 20.11 | 5.51E+07 | 0.83 Y | 0.78 | 0.73 | -5.7% |
| ES PCB-77 | 32.44 | 1.22E+08 | 0.70 Y | 1.53 | 1.63 | 6.9% |
| ES PCB-81 | 31.96 | 1.22E+08 | 0.68 Y | 1.55 | 1.63 | 4.8% |
| ES PCB-104 | 25.04 | 4.83E+07 | 1.52 Y | 0.74 | 0.70 | -6.2% |
| ES PCB-105 | 35.41 | 9.05E+07 | 1.50 Y | 1.31 | 1.31 | -0.2% |
| ES PCB-114 | 34.85 | 9.25E+07 | 1.52 Y | 1.34 | 1.34 | -0.6% |
| ES PCB-118 | 34.39 | 9.47E+07 | 1.52 Y | 1.35 | 1.37 | 1.0% |
| ES PCB-123 | 34.11 | 8.81E+07 | 1.52 Y | 1.29 | 1.27 | -1.4% |
| ES PCB-126 | 38.02 | 1.13E+08 | 1.40 Y | 1.59 | 1.63 | 2.3% |
| ES PCB-153 | 35.97 | 5.63E+07 | 1.17 Y | 1.10 | 1.12 | 1.4% |
| ES PCB-155 | 29.96 | 7.05E+07 | 1.20 Y | 1.38 | 1.40 | 1.4% |
| ES PCB-156/157 | 40.55 | 1.68E+08 | 1.11 Y | 1.62 | 1.66 | 2.5% |
| ES PCB-167 | 39.56 | 8.96E+07 | 1.11 Y | 1.70 | 1.78 | 4.4% |
| ES PCB-169 | 43.27 | 8.25E+07 | 1.09 Y | 1.55 | 1.63 | 5.2% |
| ES PCB-170 | 42.78 | 5.44E+07 | 1.02 Y | 1.06 | 1.06 | -0.1% |
| ES PCB-180 | 41.70 | 6.67E+07 | 1.02 Y | 1.30 | 1.29 | -0.5% |
| ES PCB-188 | 34.83 | 3.13E+07 | 1.03 Y | 0.63 | 0.62 | -0.9% |
| ES PCB-189 | 45.38 | 8.92E+07 | 0.94 Y | 1.71 | 1.73 | 1.3% |
| ES PCB-202 | 39.36 | 5.01E+07 | 0.88 Y | 0.96 | 0.99 | 3.7% |
| ES PCB-205 | 47.63 | 6.37E+07 | 0.88 Y | 1.23 | 1.24 | 0.2% |
| ES PCB-206 | 49.38 | 4.27E+07 | 0.79 Y | 0.84 | 0.83 | -1.6% |
| ES PCB-208 | 44.98 | 6.43E+07 | 0.78 Y | 1.25 | 1.25 | -0.3% |
| ES PCB-209 | 51.23 | 4.84E+07 | 1.16 Y | 0.94 | 0.94 | -0.3% |

| PCB QC Summary | | SGS North America | | | Printed: 4-Sep-2024 13:02 | |
|----------------------------|-------------------|-------------------|--------|-------------------------|---------------------------|-------|
| Lab ID: | CS3_240903_PCB_SA | | | ICAL: MM4-PCB_03SEP2024 | | |
| Acquired: | 3-Sep-24 16:44:07 | | | | | |
| Datafile: | 240903S05 | | | | | |
| Name | RT | Response | RA | ICAL | RRF | Dev'n |
| SS PCB-28 | 22.58 | 1.41E+08 | 1.01 Y | 1.01 | 1.07 | 5.5% |
| SS PCB-111 | 32.43 | 9.09E+07 | 1.51 Y | 0.97 | 1.03 | 6.6% |
| SS PCB-178 | 37.40 | 2.35E+07 | 1.03 Y | 0.74 | 0.75 | 1.6% |
| | | | | | | |
| CS PCB-28 | 22.58 | 1.41E+08 | 1.01 Y | 1.73 | 1.88 | 8.5% |
| CS PCB-111 | 32.43 | 9.09E+07 | 1.51 Y | 1.25 | 1.31 | 5.0% |
| CS PCB-178 | 37.40 | 2.35E+07 | 1.03 Y | 0.46 | 0.47 | 0.8% |
| | | | | | | |
| | | | | | | |
| JS PCB-9 | 16.12 | 1.68E+08 | 1.52 Y | - | - | - |
| JS PCB-52 | 24.19 | 7.52E+07 | 0.73 Y | - | - | - |
| JS PCB-101 | 30.15 | 6.93E+07 | 1.50 Y | - | - | - |
| JS PCB-138 | 37.03 | 5.05E+07 | 1.16 Y | - | - | - |
| JS PCB-194 | 47.19 | 5.16E+07 | 0.87 Y | - | - | - |
| | | | | | | |
| | | | | | | |
| PCB-1 2-MoCB | 11.66 | 1.23E+08 | 3.19 Y | 1.47 | 1.42 | -3.8% |
| PCB-3 4-MoCB | 13.93 | 1.18E+08 | 3.17 Y | 1.45 | 1.40 | -3.4% |
| PCB-4 22'-DiCB | 14.18 | 4.82E+07 | 1.58 Y | 1.30 | 1.27 | -2.0% |
| PCB-15 44'-DiCB | 19.85 | 1.11E+08 | 1.54 Y | 1.31 | 1.24 | -5.6% |
| PCB-19 22'6-TrCB | 17.24 | 4.70E+07 | 1.04 Y | 1.16 | 1.12 | -3.5% |
| PCB-37 344'-TrCB | 26.15 | 8.92E+07 | 1.09 Y | 1.43 | 1.35 | -5.5% |
| PCB-54 22'66'-TeCB | 20.13 | 4.10E+07 | 0.82 Y | 1.52 | 1.49 | -2.0% |
| PCB-104 22'466'-PeCB | 25.06 | 3.39E+07 | 0.65 Y | 1.46 | 1.41 | -3.9% |
| PCB-155 22'44'66'-HxCB | 29.98 | 4.55E+07 | 1.29 Y | 1.36 | 1.29 | -4.8% |
| PCB-188 22'34'566'-HpCB | 34.85 | 2.43E+07 | 1.05 Y | 1.55 | 1.55 | 0.5% |
| PCB-202 22'33'55'66'-OcCB | 39.38 | 3.19E+07 | 0.88 Y | 1.32 | 1.27 | -3.7% |
| PCB-205 233'44'55'6-OcCB | 47.65 | 3.40E+07 | 0.91 Y | 1.12 | 1.07 | -4.5% |
| PCB-208 22'33'455'66'-NoCB | 45.00 | 3.46E+07 | 0.81 Y | 1.11 | 1.07 | -3.1% |
| PCB-206 22'33'44'55'6-NoCB | 49.41 | 2.22E+07 | 0.79 Y | 1.04 | 1.04 | 0.4% |
| | | | | | | |
| FS PCB-8 | 16.93 | 1.73E+08 | 1.54 Y | 0.90 | 0.96 | 7.0% |
| FS PCB-31 | 22.305 | 1.46E+08 | 1.02 Y | 1.03 | 1.11 | 7.7% |
| FS PCB-60 | 29.444 | 1.13E+08 | 0.70 Y | 0.87 | 0.93 | 6.7% |
| FS PCB-85 | 31.719 | 6.49E+07 | 1.51 Y | 0.68 | 0.74 | 7.9% |
| FS PCB-128 | 38.126 | 6.28E+07 | 1.15 Y | 0.66 | 0.70 | 5.6% |
| FS PCB-182 | 38.346 | 6.39E+07 | 0.98 Y | 0.90 | 0.96 | 7.0% |
| | | | | | | |
| AS PCB-32 | 20.26 | 1.25E+08 | 1.06 Y | 0.77 | 0.75 | -3.1% |
| AS PCB-97 | 31.09 | 6.21E+07 | 1.52 Y | 0.86 | 0.90 | 3.8% |
| AS PCB-159 NR - CL 04Sep24 | 36.92 | 6.38E+07 | 1.68 Y | 1.57 | 1.66 | 5.5% |
| | | | | | | |

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



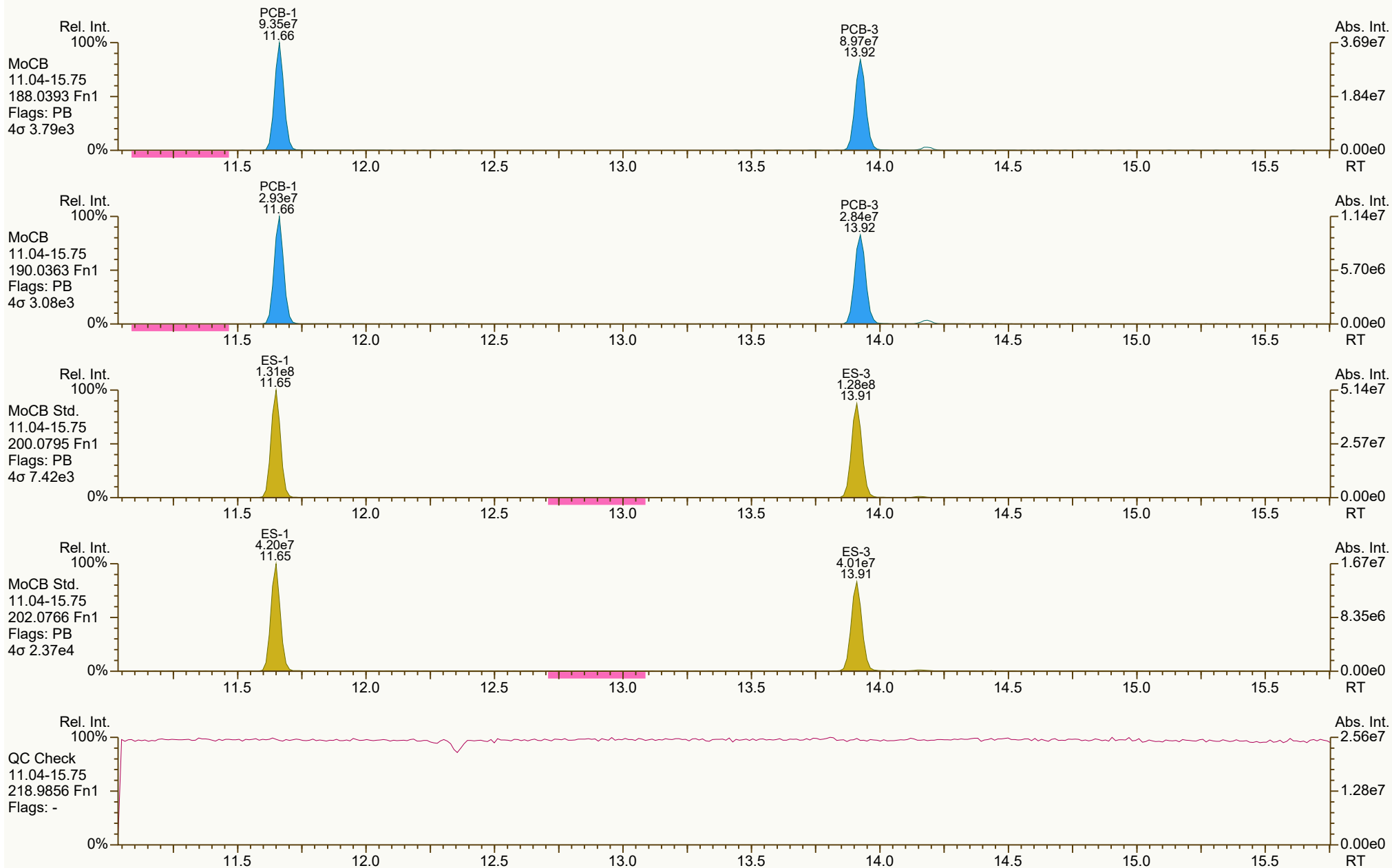
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SGS UltraTrace-Pro V5.12 User/System: RAB/USP2F2DQX scc: 776-728

Peak annotation: Areas, Centroids
PKD: n/a Printed: 04-Sep-2024 13:06 Page 1 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



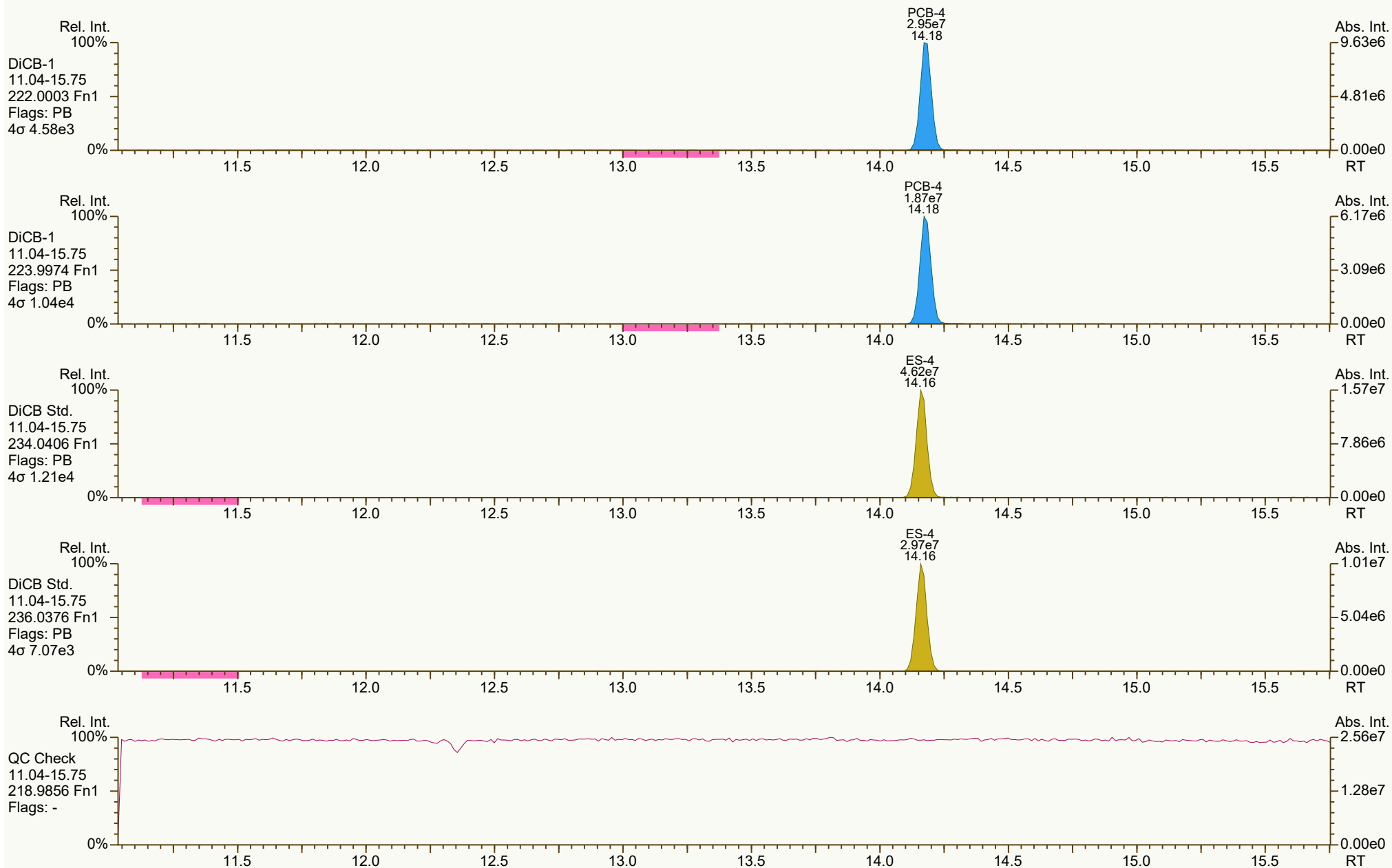
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 8162, 2349 scc: 776-728

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 18:04 Printed: 04-Sep-2024 13:06 Page 2 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



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Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 18:04 (RAB) Printed: 04-Sep-2024 13:06 Page 3 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



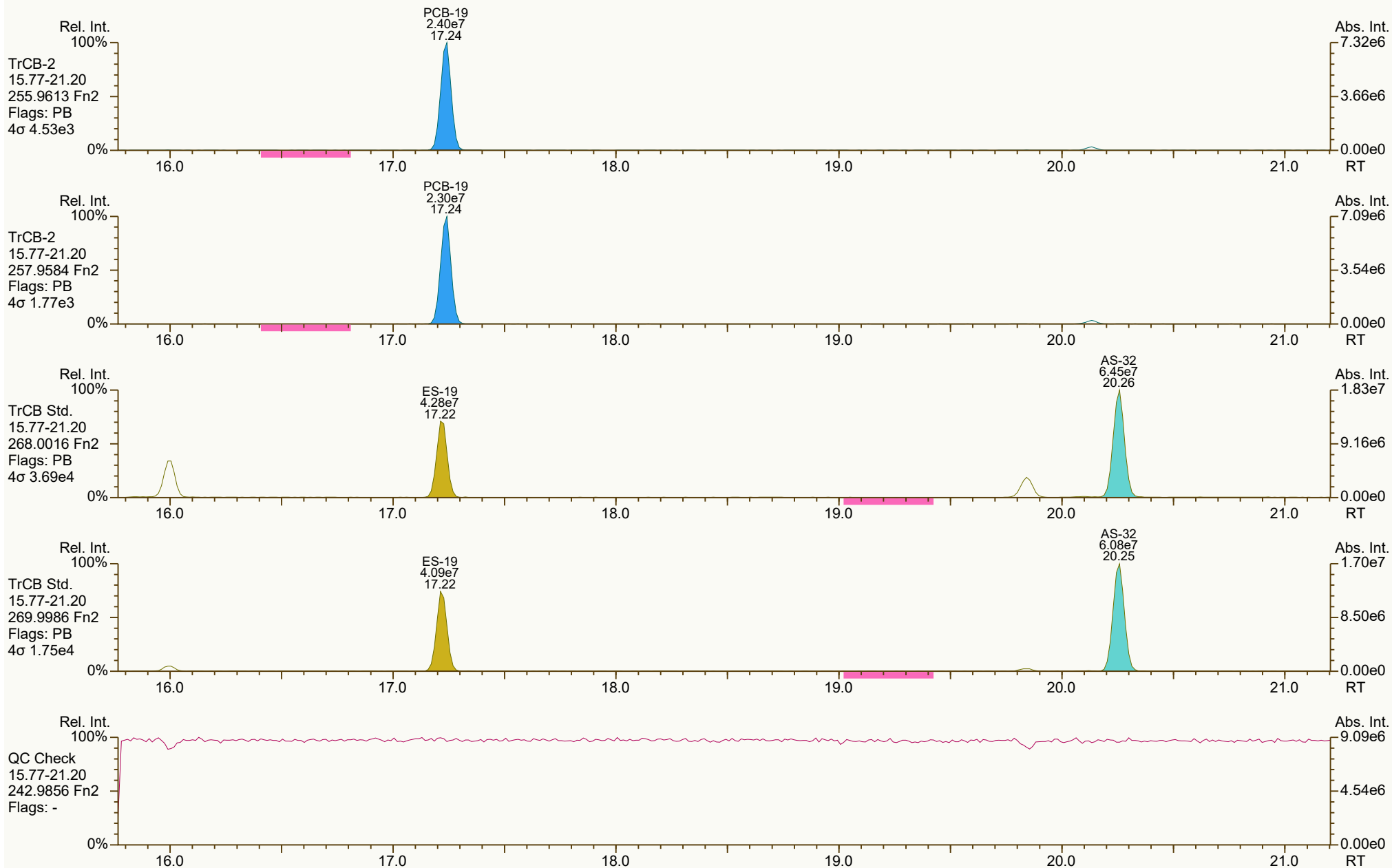
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 18:07 Printed: 04-Sep-2024 13:06 Page 4 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



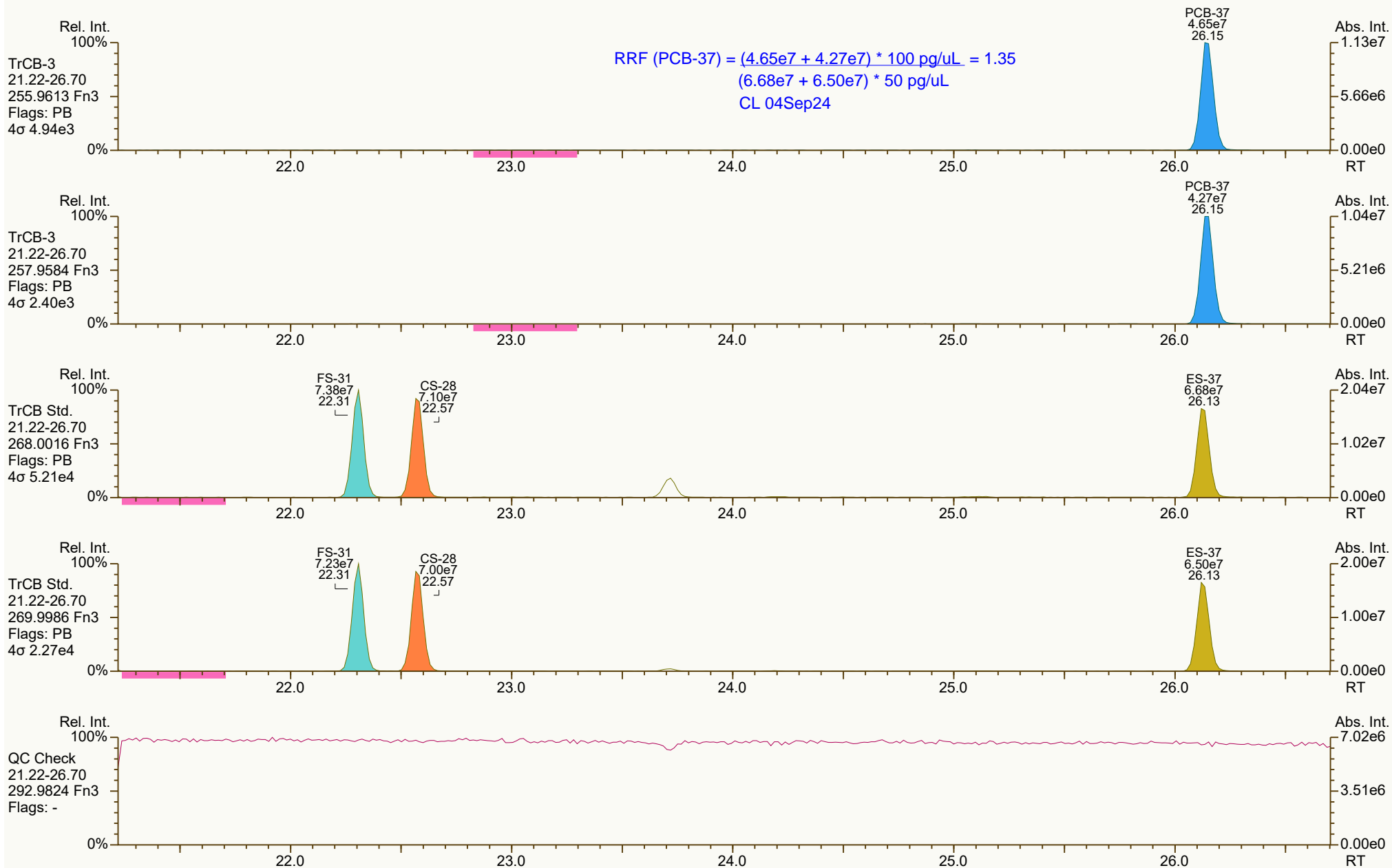
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 18:07 Printed: 04-Sep-2024 13:06 Page 5 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 18:07 Printed: 04-Sep-2024 13:06 Page 6 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



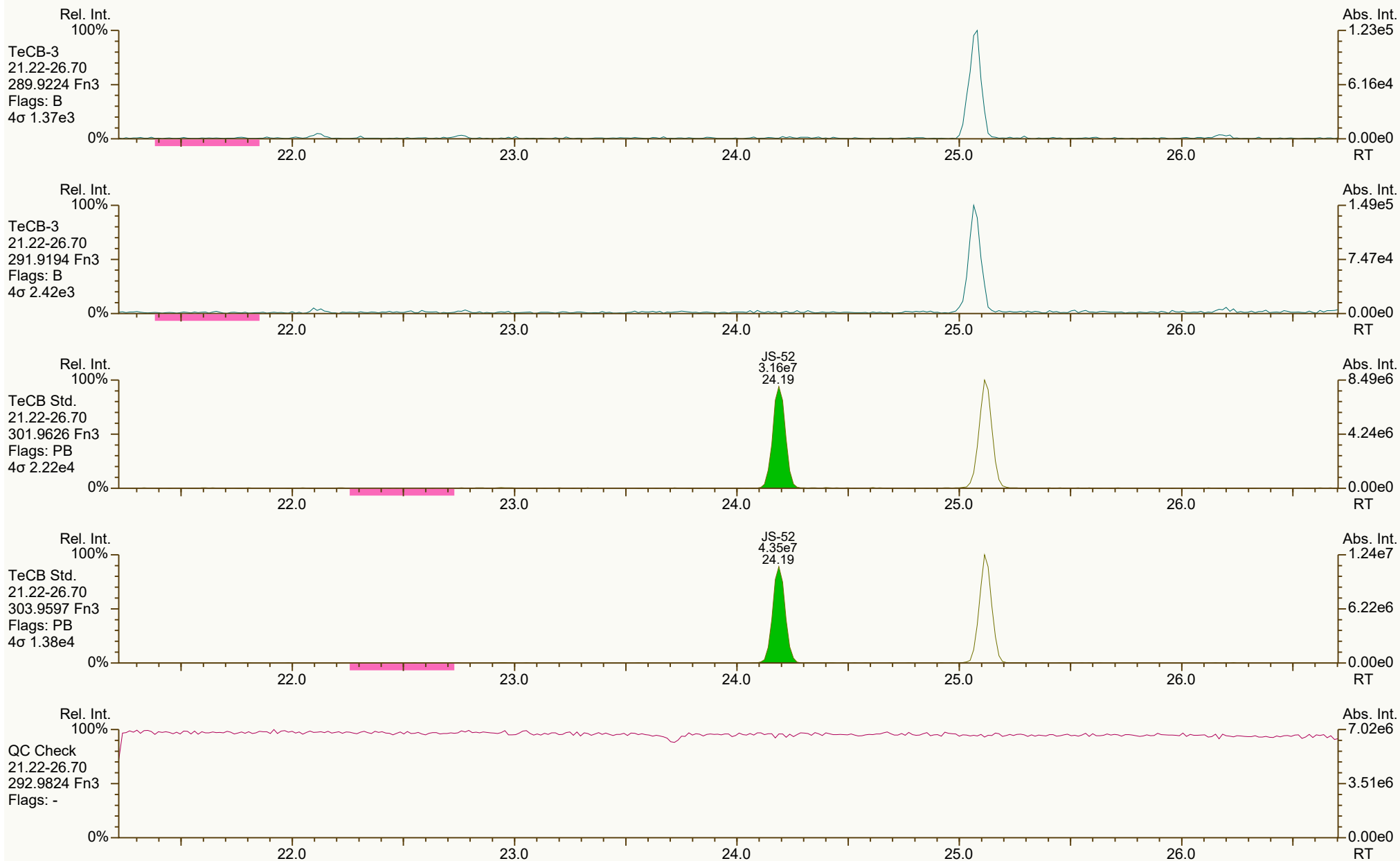
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Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 18:04 (RAB) Printed: 04-Sep-2024 13:06 Page 7 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

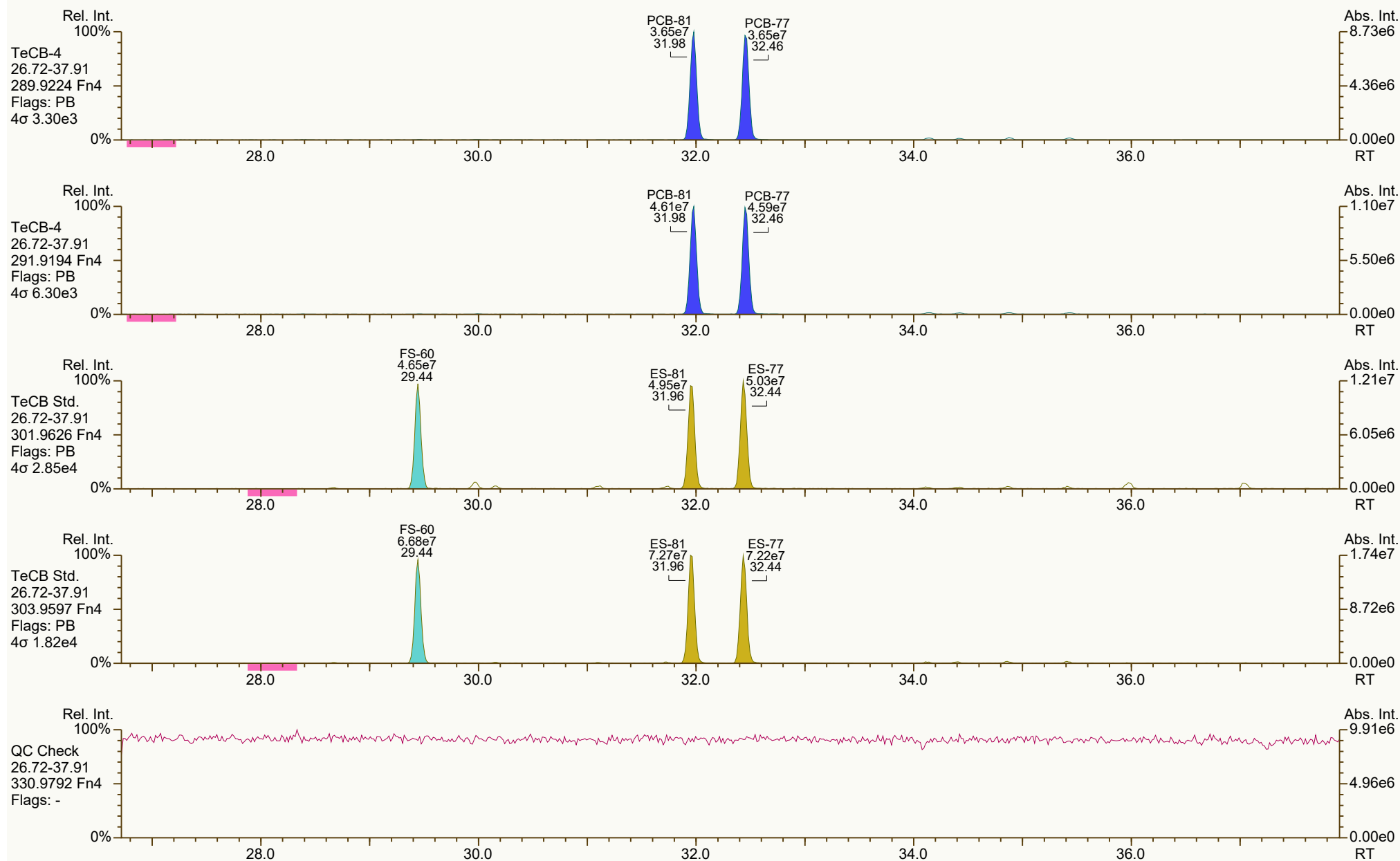
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SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



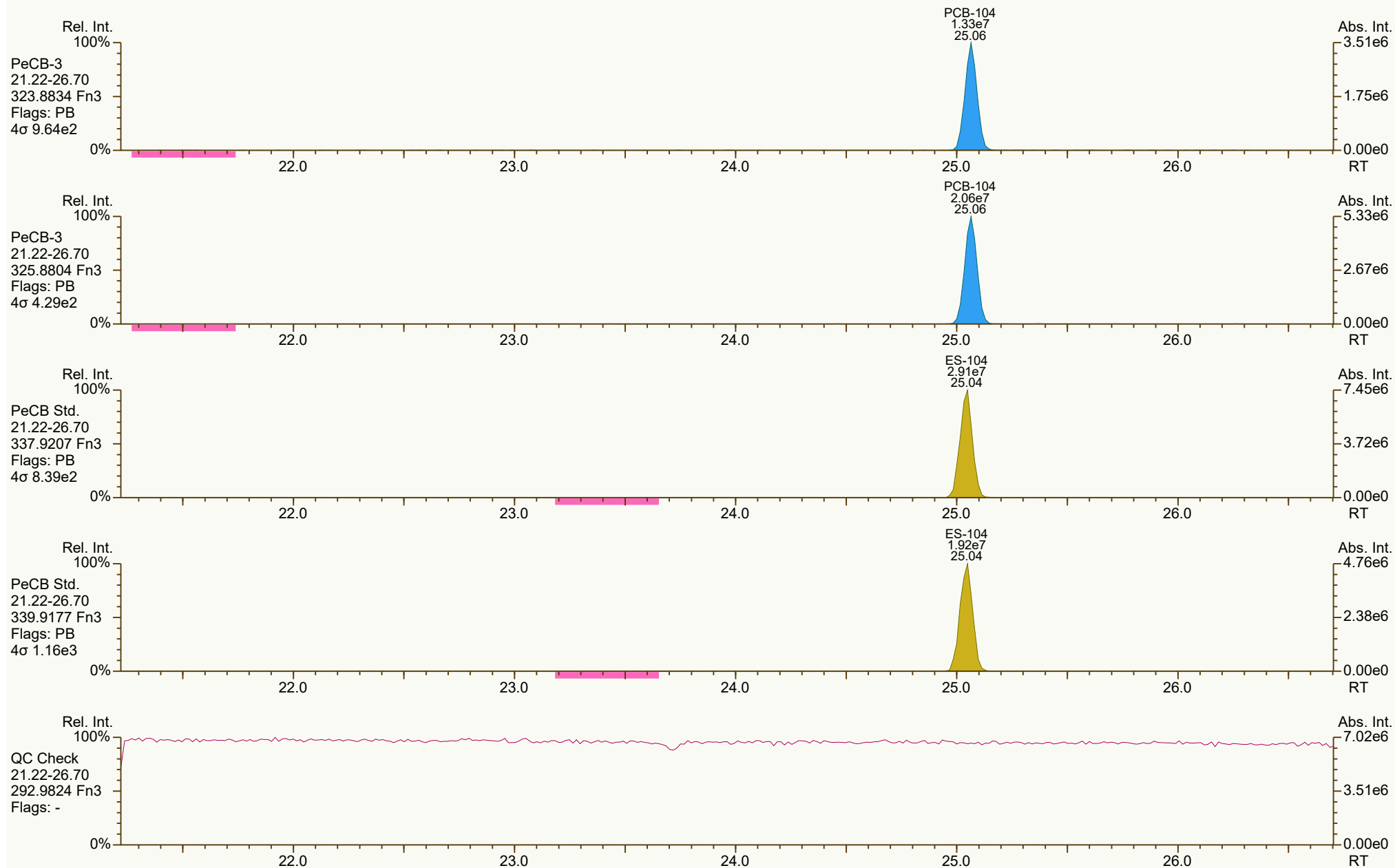
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 18:07 Printed: 04-Sep-2024 13:06 Page 9 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

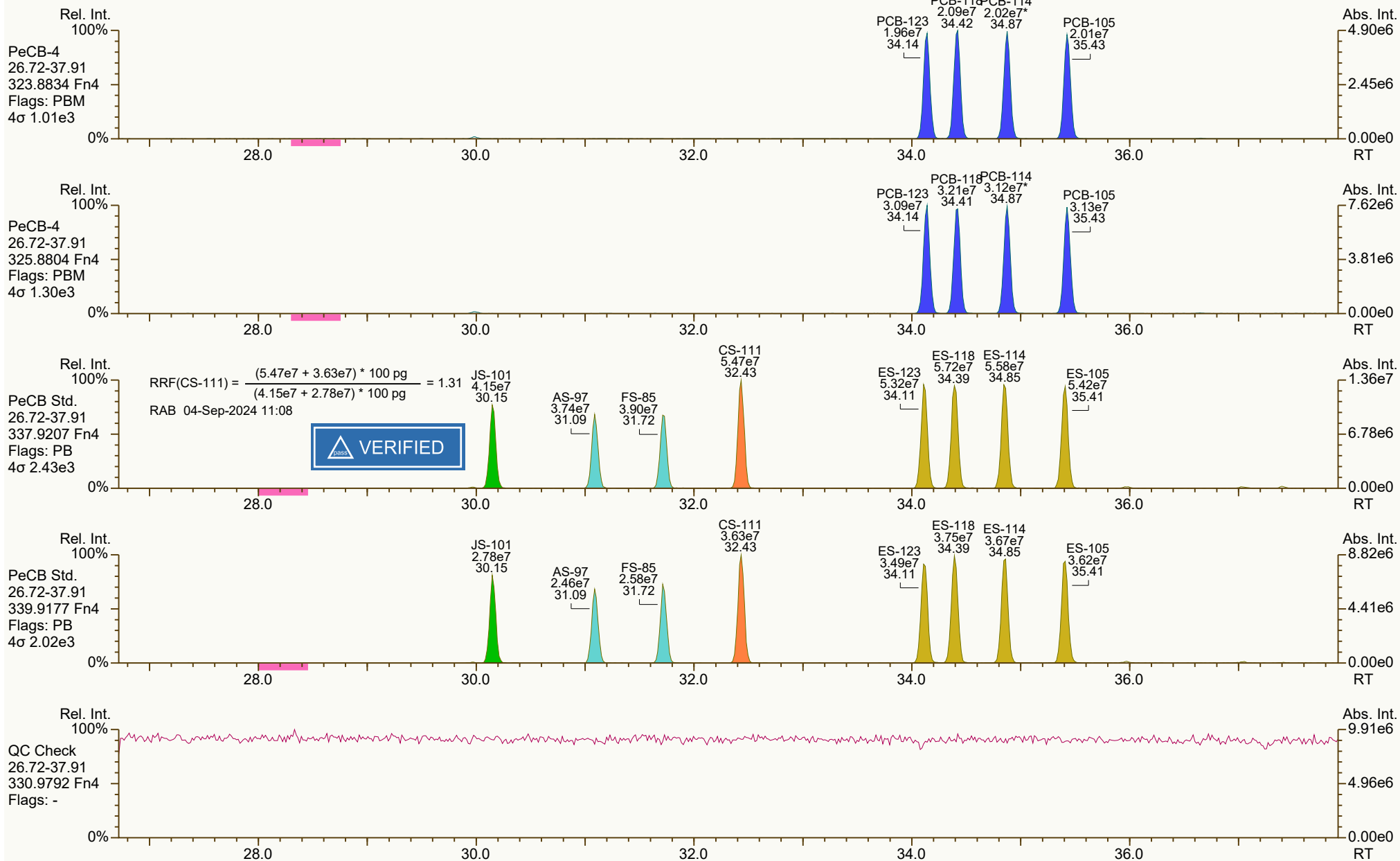
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User: RAB Datafile: 240903S05



SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 5909, 4441 scc: 776-728

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 18:07 Printed: 04-Sep-2024 13:06 Page 11 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 7832, 1858 scc: 776-728

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 18:05 (RAB) Printed: 04-Sep-2024 13:06 Page 12 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



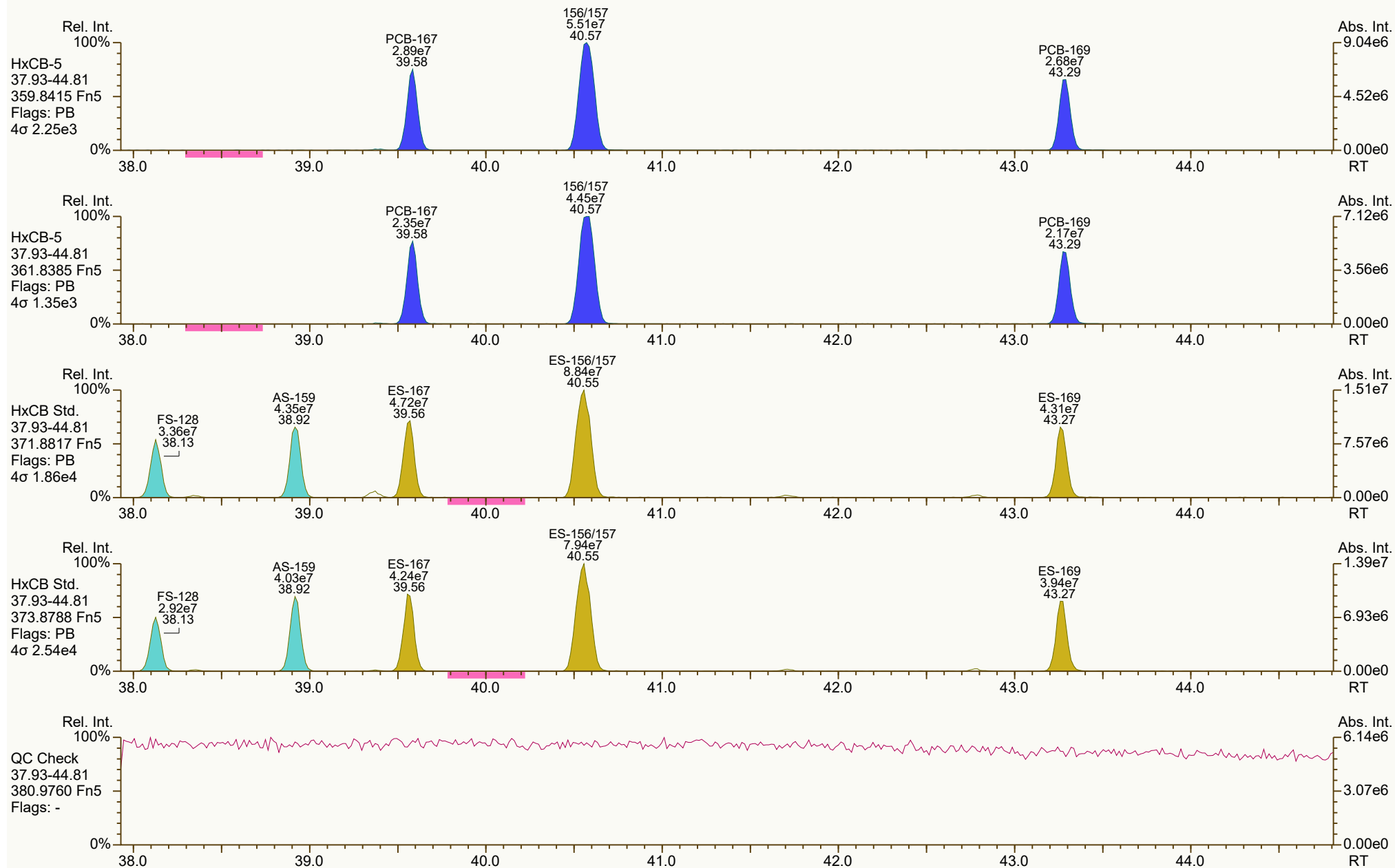
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 18:04 Printed: 04-Sep-2024 13:06 Page 13 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 18:04 Printed: 04-Sep-2024 13:06 Page 14 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



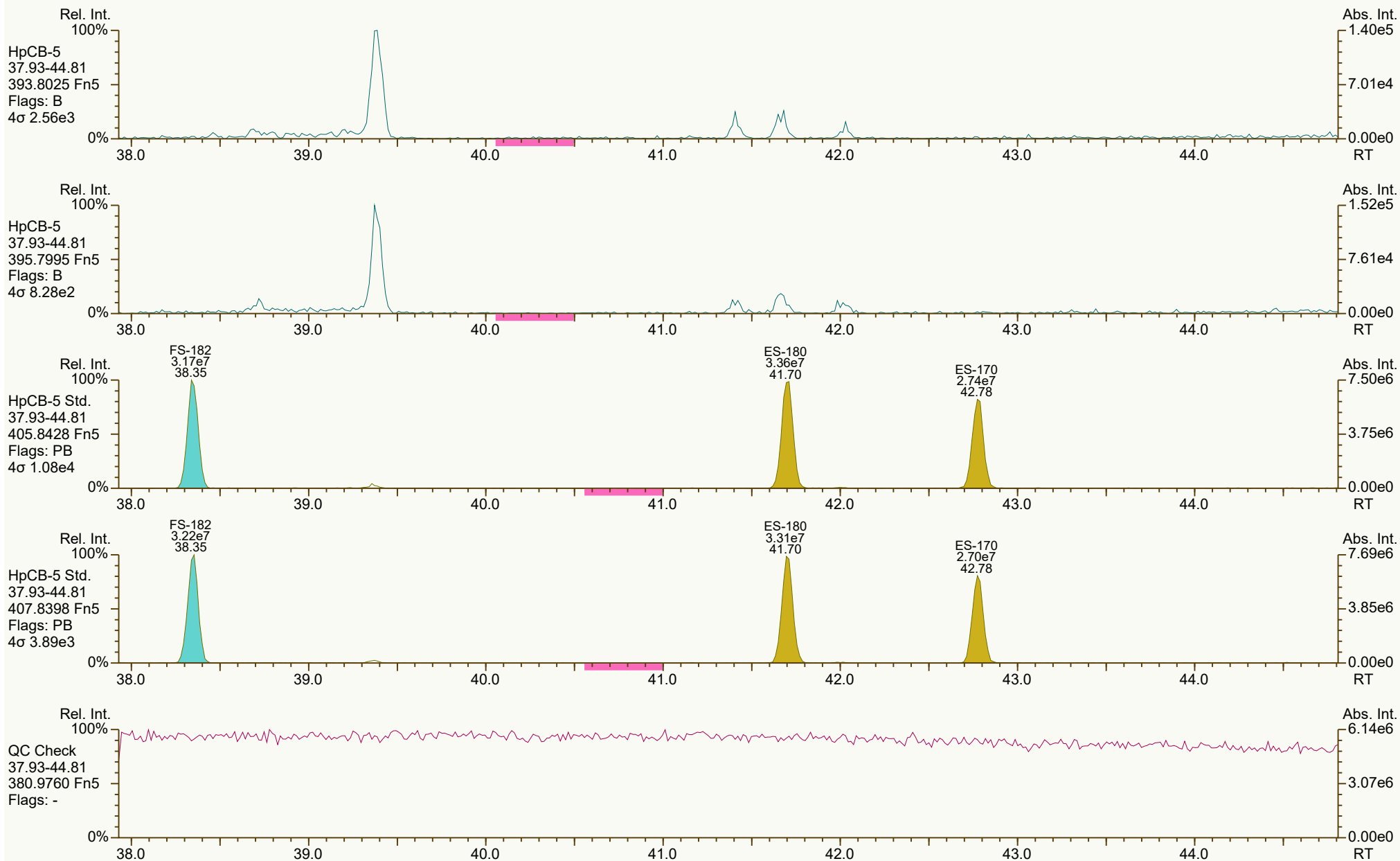
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 18:04 Printed: 04-Sep-2024 13:06 Page 15 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS3_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 6825, 4209 scc: 776-728

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 18:07 Printed: 04-Sep-2024 13:06 Page 16 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS3_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 18:04 Printed: 04-Sep-2024 13:06 Page 17 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



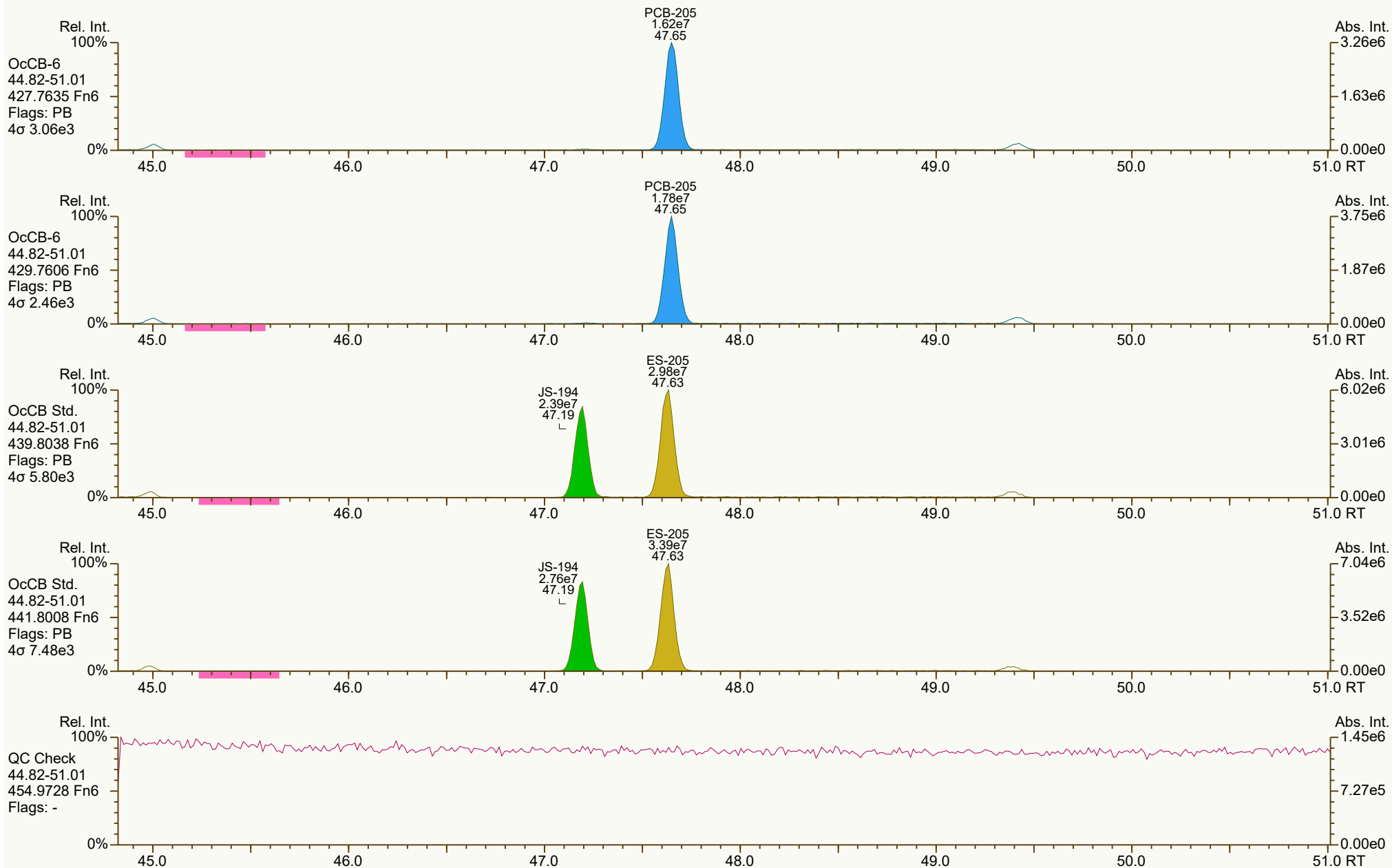
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 7184, 1245 scc: 776-728

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 18:04 Printed: 04-Sep-2024 13:06 Page 18 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 18:04 Printed: 04-Sep-2024 13:06 Page 20 of 21

SGS ID: CS3_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-92-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 88

Acq: 03-Sep-2024 16:44:07
User: RAB Datafile: 240903S05



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 2890, 8237 scc: 776-728

Peak annotation: Areas, Centroids
Revised: 03-Sep-2024 18:06 (RAB) Printed: 04-Sep-2024 13:06 Page 21 of 21

PCB QC Summary

SGS North America

Printed: 4-Sep-2024 13:02

Lab ID: CS4_240903_PCB_SA
 Acquired: 3-Sep-24 17:41:22
 Datafile: 240903S06

ICAL: MM4-PCB_03SEP2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-------------------------|-------|----------|--------|------|------|-------|
| PCB-77 33'44'-TeCB | 32.44 | 4.58E+08 | 0.80 Y | 1.45 | 1.38 | -5.0% |
| PCB-81 344'5'-TeCB | 31.96 | 4.63E+08 | 0.80 Y | 1.46 | 1.34 | -7.9% |
| PCB-105 233'44'-PeCB | 35.42 | 2.91E+08 | 0.64 Y | 1.18 | 1.13 | -4.3% |
| PCB-114 2344'5'-PeCB | 34.86 | 2.97E+08 | 0.64 Y | 1.14 | 1.09 | -4.8% |
| PCB-118 23'44'5'-PeCB | 34.40 | 3.05E+08 | 0.63 Y | 1.18 | 1.14 | -3.9% |
| PCB-123 23'44'5'-PeCB | 34.12 | 2.89E+08 | 0.63 Y | 1.19 | 1.12 | -5.9% |
| PCB-126 33'44'5'-PeCB | 38.02 | 3.88E+08 | 0.63 Y | 1.35 | 1.24 | -8.1% |
| PCB-156/157 ...-HxCB | 40.56 | 5.58E+08 | 1.25 Y | 1.23 | 1.16 | -5.6% |
| PCB-167 23'44'55'-HxCB | 39.57 | 2.88E+08 | 1.24 Y | 1.22 | 1.15 | -5.3% |
| PCB-169 33'44'55'-HxCB | 43.27 | 2.65E+08 | 1.25 Y | 1.23 | 1.19 | -3.9% |
| PCB-189 233'44'55'-HpCB | 45.39 | 2.90E+08 | 1.05 Y | 1.31 | 1.20 | -8.0% |
| PCB-209 DeCB | 51.24 | 1.33E+08 | 1.18 Y | 1.08 | 0.99 | -8.4% |
| | | | | | | |
| ES PCB-1 | 11.64 | 1.30E+08 | 3.20 Y | 1.09 | 1.11 | 2.2% |
| ES PCB-3 | 13.89 | 1.28E+08 | 3.17 Y | 1.06 | 1.09 | 3.1% |
| ES PCB-4 | 14.14 | 7.03E+07 | 1.55 Y | 0.52 | 0.60 | 15.8% |
| ES PCB-15 | 19.81 | 1.32E+08 | 1.51 Y | 1.11 | 1.13 | 1.4% |
| ES PCB-19 | 17.20 | 6.65E+07 | 1.06 Y | 0.54 | 0.57 | 5.2% |
| ES PCB-37 | 26.11 | 9.48E+07 | 1.02 Y | 1.71 | 1.66 | -2.5% |
| ES PCB-54 | 20.09 | 4.64E+07 | 0.81 Y | 0.78 | 0.81 | 4.6% |
| ES PCB-77 | 32.42 | 8.31E+07 | 0.68 Y | 1.53 | 1.46 | -4.6% |
| ES PCB-81 | 31.94 | 8.62E+07 | 0.69 Y | 1.55 | 1.51 | -2.7% |
| ES PCB-104 | 25.02 | 3.89E+07 | 1.49 Y | 0.74 | 0.76 | 2.9% |
| ES PCB-105 | 35.39 | 6.44E+07 | 1.55 Y | 1.31 | 1.27 | -3.0% |
| ES PCB-114 | 34.84 | 6.81E+07 | 1.55 Y | 1.34 | 1.34 | -0.2% |
| ES PCB-118 | 34.38 | 6.71E+07 | 1.55 Y | 1.35 | 1.32 | -2.4% |
| ES PCB-123 | 34.10 | 6.47E+07 | 1.49 Y | 1.29 | 1.27 | -1.4% |
| ES PCB-126 | 38.00 | 7.80E+07 | 1.40 Y | 1.59 | 1.53 | -3.8% |
| ES PCB-153 | 35.95 | 4.20E+07 | 1.25 Y | 1.10 | 1.07 | -2.4% |
| ES PCB-155 | 29.94 | 5.28E+07 | 1.16 Y | 1.38 | 1.35 | -1.9% |
| ES PCB-156/157 | 40.54 | 1.20E+08 | 1.12 Y | 1.62 | 1.53 | -5.3% |
| ES PCB-167 | 39.55 | 6.24E+07 | 1.11 Y | 1.70 | 1.60 | -6.2% |
| ES PCB-169 | 43.26 | 5.59E+07 | 1.12 Y | 1.55 | 1.43 | -8.0% |
| ES PCB-170 | 42.76 | 3.86E+07 | 0.95 Y | 1.06 | 1.09 | 3.0% |
| ES PCB-180 | 41.69 | 4.72E+07 | 0.99 Y | 1.30 | 1.33 | 2.5% |
| ES PCB-188 | 34.81 | 2.49E+07 | 1.05 Y | 0.63 | 0.64 | 1.5% |
| ES PCB-189 | 45.37 | 6.03E+07 | 0.92 Y | 1.71 | 1.70 | -0.5% |
| ES PCB-202 | 39.35 | 3.67E+07 | 0.90 Y | 0.96 | 0.94 | -2.1% |
| ES PCB-205 | 47.62 | 4.38E+07 | 0.89 Y | 1.23 | 1.24 | 0.2% |
| ES PCB-206 | 49.37 | 3.02E+07 | 0.79 Y | 0.84 | 0.85 | 1.2% |
| ES PCB-208 | 44.96 | 4.52E+07 | 0.78 Y | 1.25 | 1.27 | 1.8% |
| ES PCB-209 | 51.21 | 3.38E+07 | 1.15 Y | 0.94 | 0.95 | 1.3% |

PCB QC Summary

SGS North America

Printed: 4-Sep-2024 13:02

Lab ID: CS4_240903_PCB_SA
 Acquired: 3-Sep-24 17:41:22
 Datafile: 240903S06

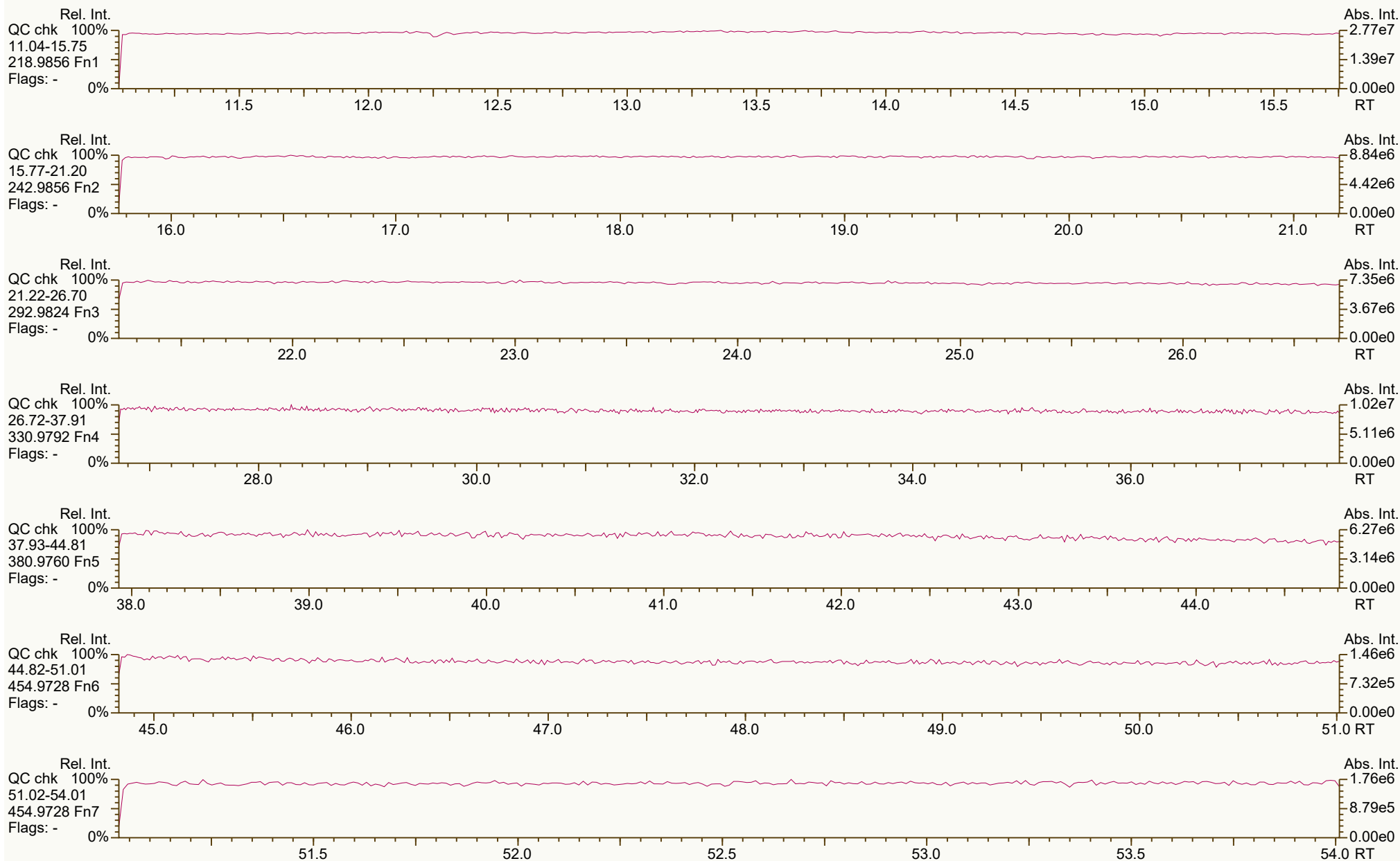
ICAL: MM4-PCB_03SEP2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|----------------------------|--------|----------|--------|------|------|-------|
| SS PCB-28 | 22.56 | 9.40E+07 | 1.02 Y | 1.01 | 0.99 | -2.2% |
| SS PCB-111 | 32.42 | 5.94E+07 | 1.49 Y | 0.97 | 0.92 | -5.1% |
| SS PCB-178 | 37.39 | 1.72E+07 | 1.01 Y | 0.74 | 0.69 | -6.6% |
| CS PCB-28 | 22.56 | 9.40E+07 | 1.02 Y | 1.73 | 1.65 | -4.7% |
| CS PCB-111 | 32.42 | 5.94E+07 | 1.49 Y | 1.25 | 1.17 | -6.5% |
| CS PCB-178 | 37.39 | 1.72E+07 | 1.01 Y | 0.46 | 0.44 | -5.0% |
| JS PCB-9 | 16.10 | 1.17E+08 | 1.55 Y | - | - | - |
| JS PCB-52 | 24.17 | 5.71E+07 | 0.74 Y | - | - | - |
| JS PCB-101 | 30.13 | 5.08E+07 | 1.48 Y | - | - | - |
| JS PCB-138 | 37.02 | 3.91E+07 | 1.16 Y | - | - | - |
| JS PCB-194 | 47.18 | 3.55E+07 | 0.88 Y | - | - | - |
| PCB-1 2-MoCB | 11.65 | 7.19E+08 | 3.18 Y | 1.47 | 1.38 | -6.2% |
| PCB-3 4-MoCB | 13.91 | 7.04E+08 | 3.19 Y | 1.45 | 1.37 | -5.5% |
| PCB-4 22'-DiCB | 14.16 | 3.37E+08 | 1.59 Y | 1.30 | 1.20 | -7.4% |
| PCB-15 44'-DiCB | 19.83 | 6.57E+08 | 1.54 Y | 1.31 | 1.24 | -5.1% |
| PCB-19 22'6-TrCB | 17.22 | 2.95E+08 | 1.05 Y | 1.16 | 1.11 | -4.7% |
| PCB-37 344'-TrCB | 26.13 | 5.15E+08 | 1.09 Y | 1.43 | 1.36 | -5.2% |
| PCB-54 22'66'-TeCB | 20.11 | 2.67E+08 | 0.82 Y | 1.52 | 1.44 | -5.2% |
| PCB-104 22'466'-PeCB | 25.05 | 2.12E+08 | 0.61 Y | 1.46 | 1.36 | -6.7% |
| PCB-155 22'44'66'-HxCB | 29.97 | 2.69E+08 | 1.29 Y | 1.36 | 1.27 | -6.3% |
| PCB-188 22'34'566'-HpCB | 34.84 | 1.40E+08 | 1.06 Y | 1.55 | 1.41 | -8.9% |
| PCB-202 22'33'55'66'-OoCB | 39.37 | 1.76E+08 | 0.87 Y | 1.32 | 1.20 | -9.0% |
| PCB-205 233'44'55'6-OoCB | 47.64 | 1.85E+08 | 0.91 Y | 1.12 | 1.05 | -5.8% |
| PCB-208 22'33'455'66'-NoCB | 44.98 | 1.86E+08 | 0.80 Y | 1.11 | 1.03 | -7.1% |
| PCB-206 22'33'44'55'6-NoCB | 49.39 | 1.16E+08 | 0.79 Y | 1.04 | 0.96 | -7.5% |
| FS PCB-8 | 16.91 | 1.16E+08 | 1.53 Y | 0.90 | 0.88 | -1.7% |
| FS PCB-31 | 22.289 | 9.96E+07 | 1.01 Y | 1.03 | 1.05 | 2.0% |
| FS PCB-60 | 29.428 | 7.45E+07 | 0.69 Y | 0.87 | 0.86 | -0.4% |
| FS PCB-85 | 31.701 | 4.35E+07 | 1.44 Y | 0.68 | 0.67 | -1.5% |
| FS PCB-128 | 38.111 | 4.25E+07 | 1.13 Y | 0.66 | 0.68 | 2.6% |
| FS PCB-182 | 38.332 | 4.24E+07 | 1.01 Y | 0.90 | 0.90 | 0.4% |
| AS PCB-32 | 20.24 | 9.35E+07 | 1.05 Y | 0.77 | 0.80 | 3.8% |
| AS PCB-97 | 31.08 | 4.29E+07 | 1.47 Y | 0.86 | 0.84 | -2.2% |
| AS PCB-159 NR - CL 04Sep24 | 36.91 | 5.86E+07 | 1.12 Y | 1.57 | 1.50 | -4.9% |

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
User: RAB Datafile: 240903S06



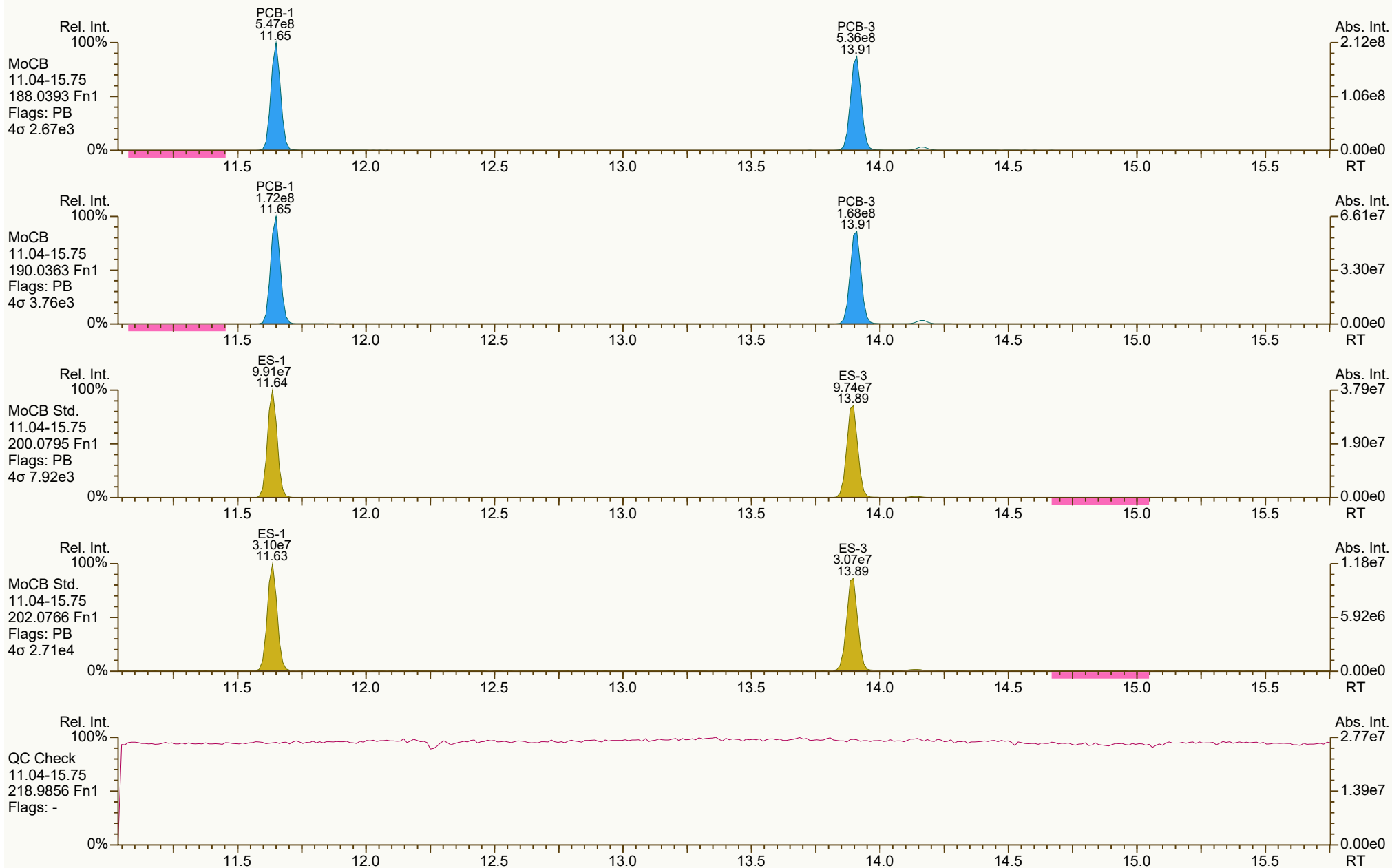
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX scc: 884-834

Peak annotation: Areas, Centroids
PKD: n/a Printed: 04-Sep-2024 13:06 Page 1 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
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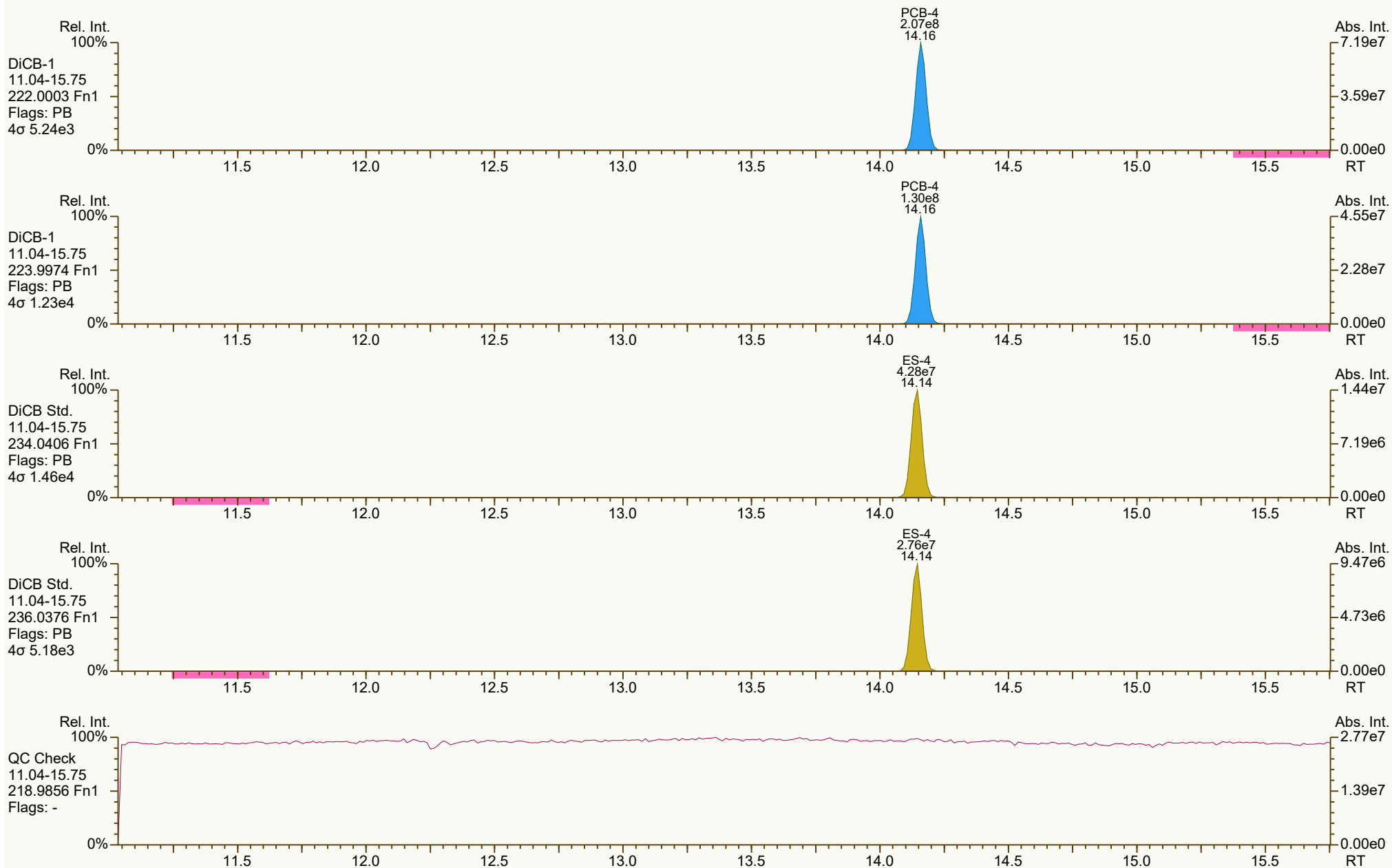
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:06 Page 2 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
User: RAB Datafile: 240903S06



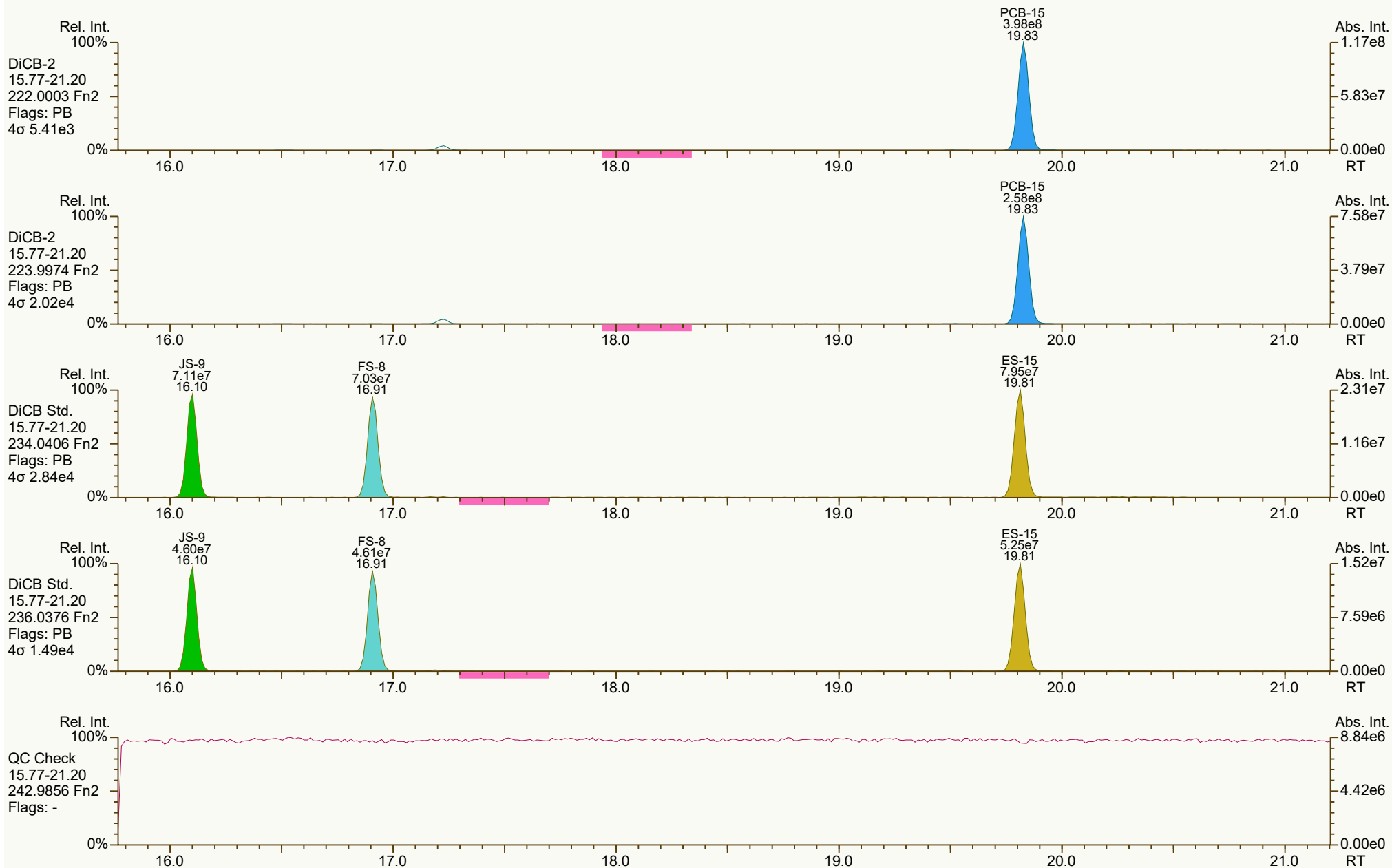
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:06 Page 3 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
User: RAB Datafile: 240903S06



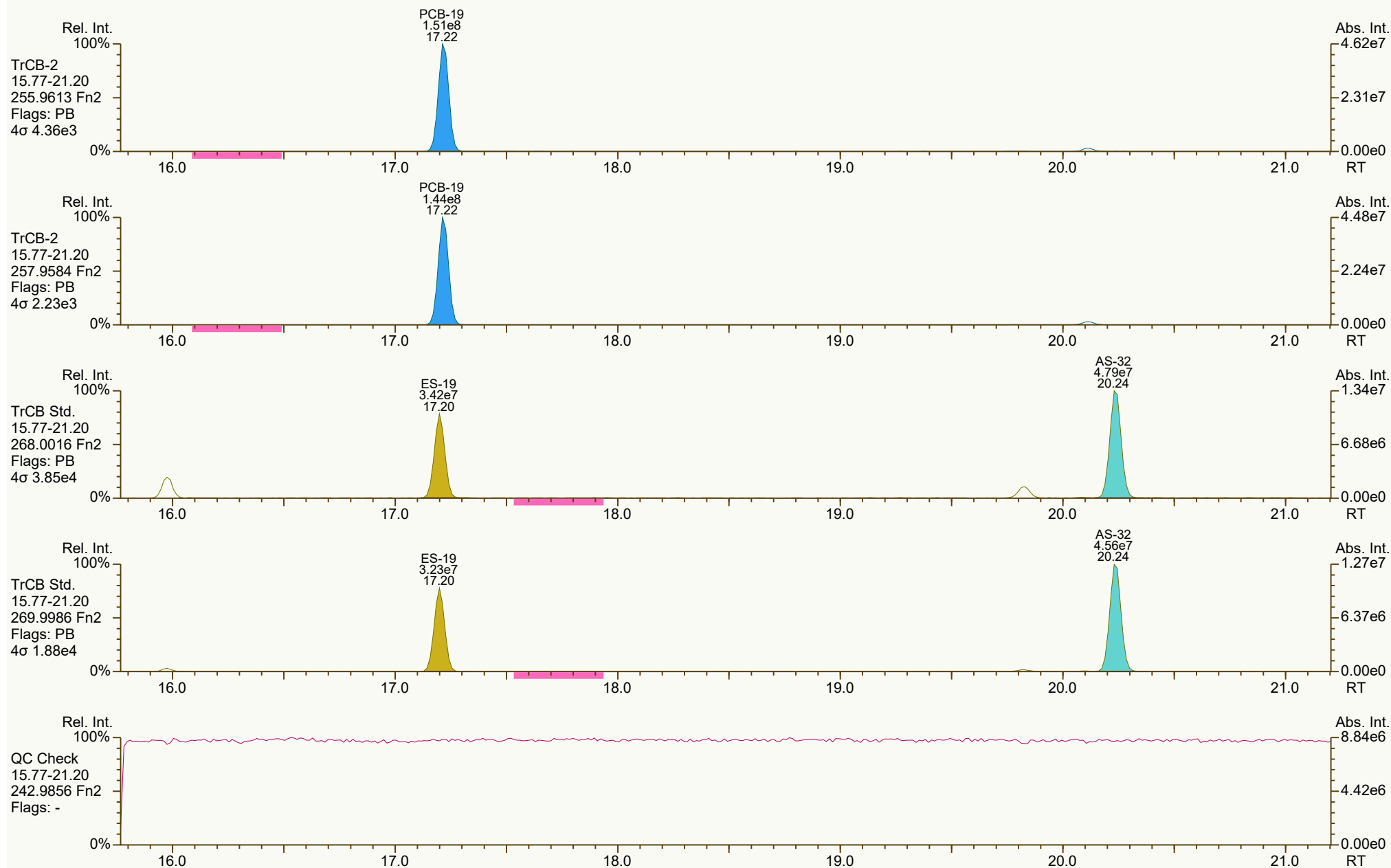
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 12:58 Printed: 04-Sep-2024 13:06 Page 4 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
User: RAB Datafile: 240903S06



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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:06 Page 5 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
User: RAB Datafile: 240903S06



SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
User: RAB Datafile: 240903S06



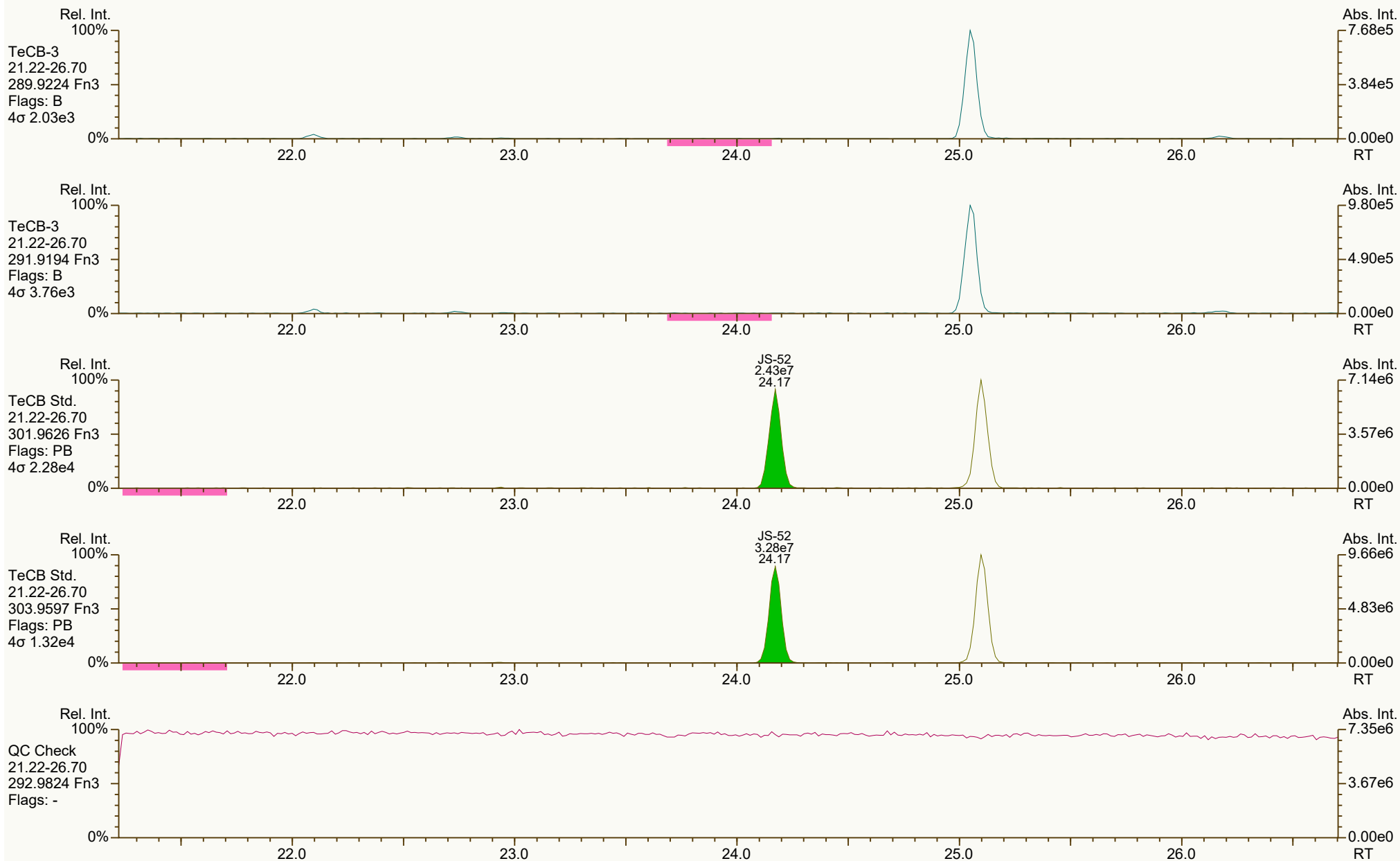
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:07 Page 7 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

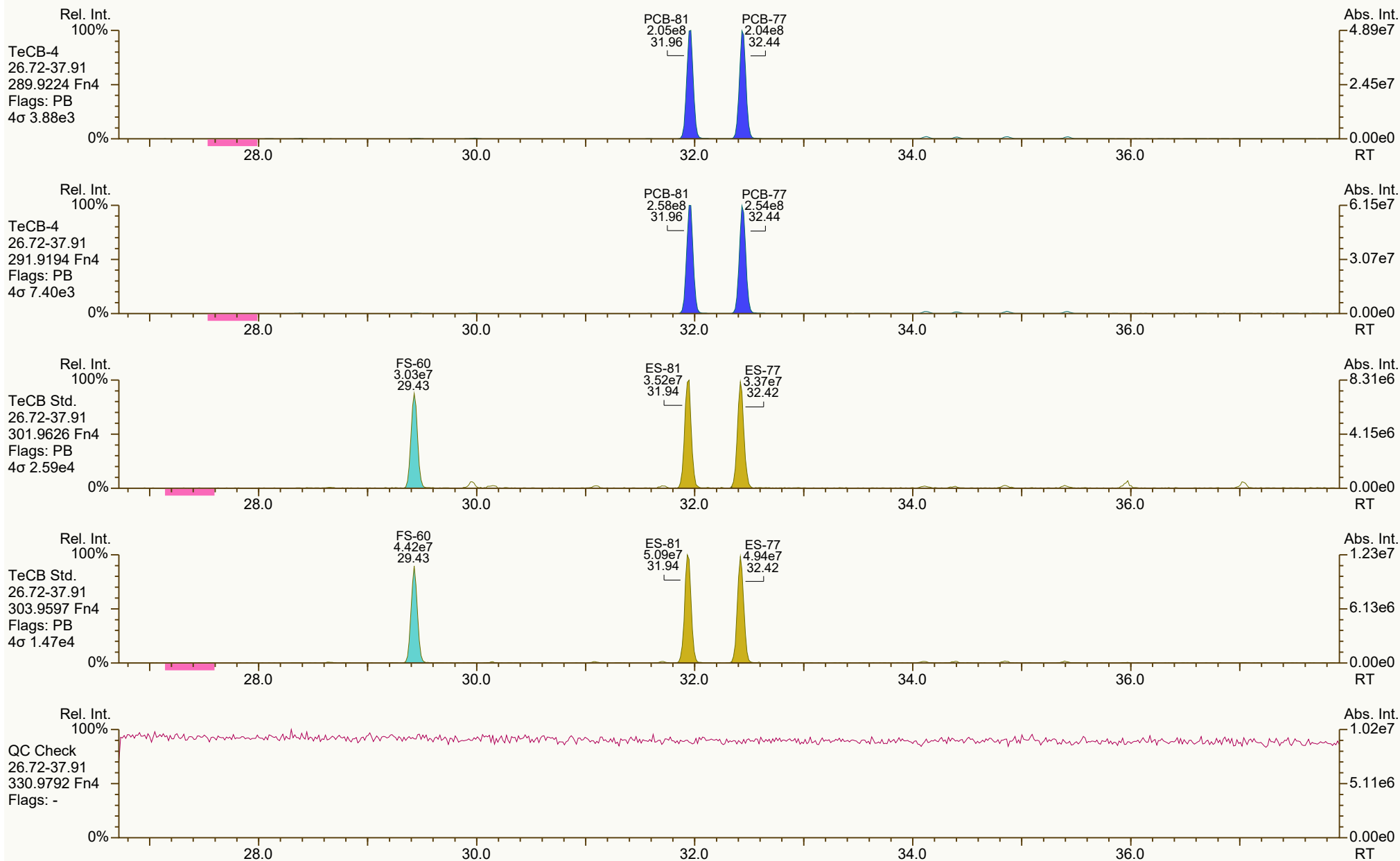
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SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

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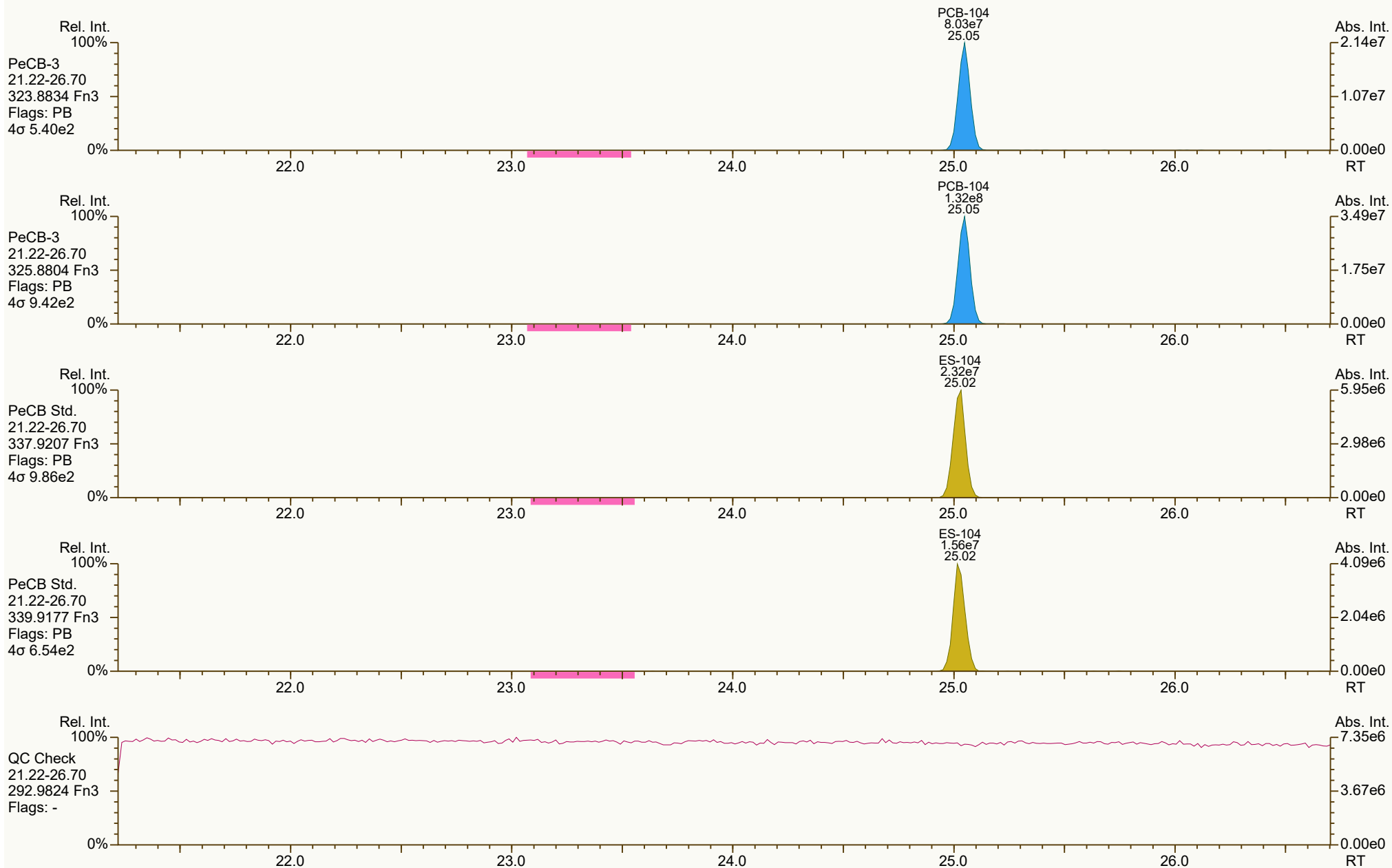
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:07 Page 9 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

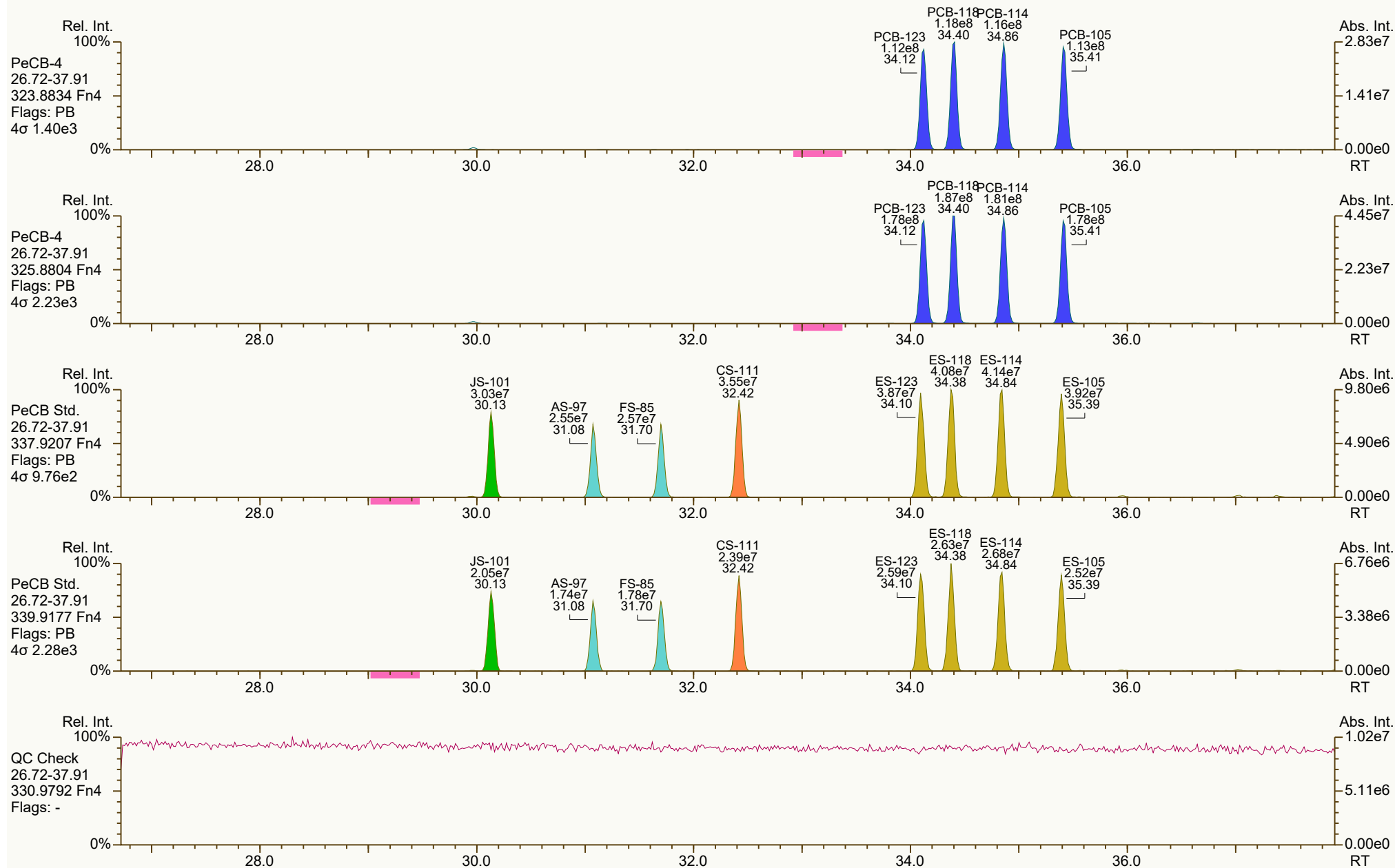
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SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 12:58 Printed: 04-Sep-2024 13:07 Page 11 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
User: RAB Datafile: 240903S06



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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:07 Page 12 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
User: RAB Datafile: 240903S06



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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:07 Page 13 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

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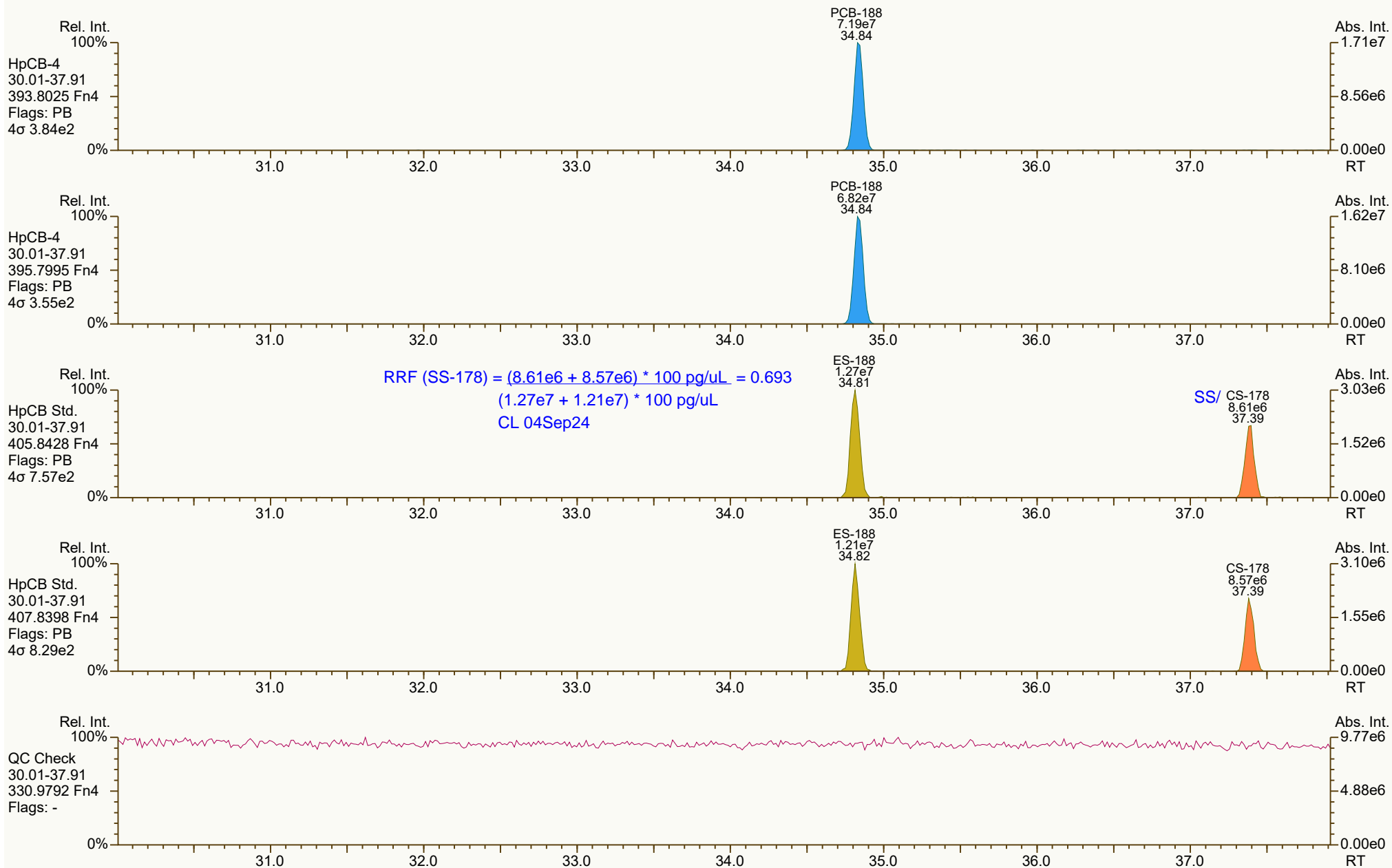
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:07 Page 14 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:07 Page 15 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:07 Page 16 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
User: RAB Datafile: 240903S06



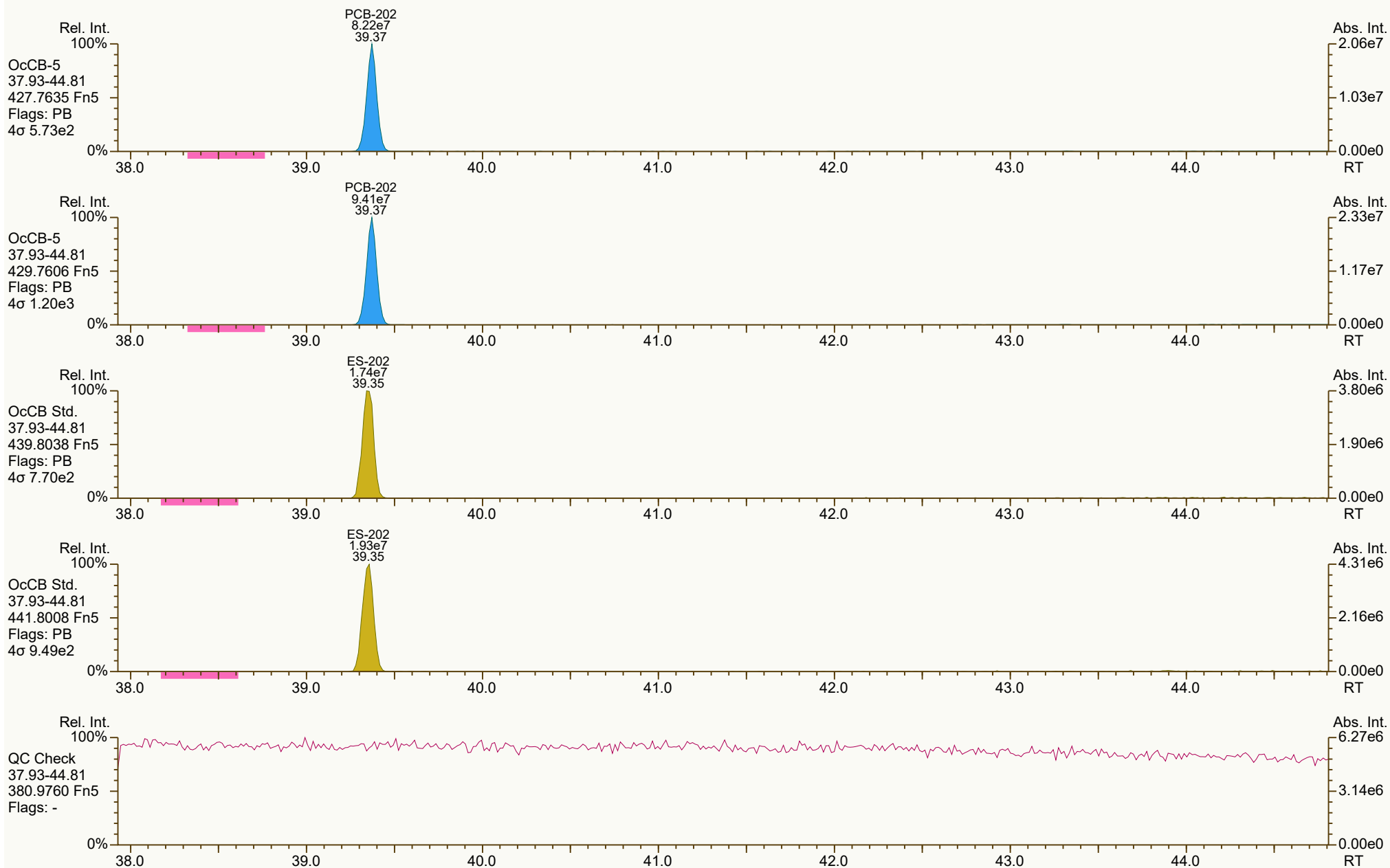
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:07 Page 17 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
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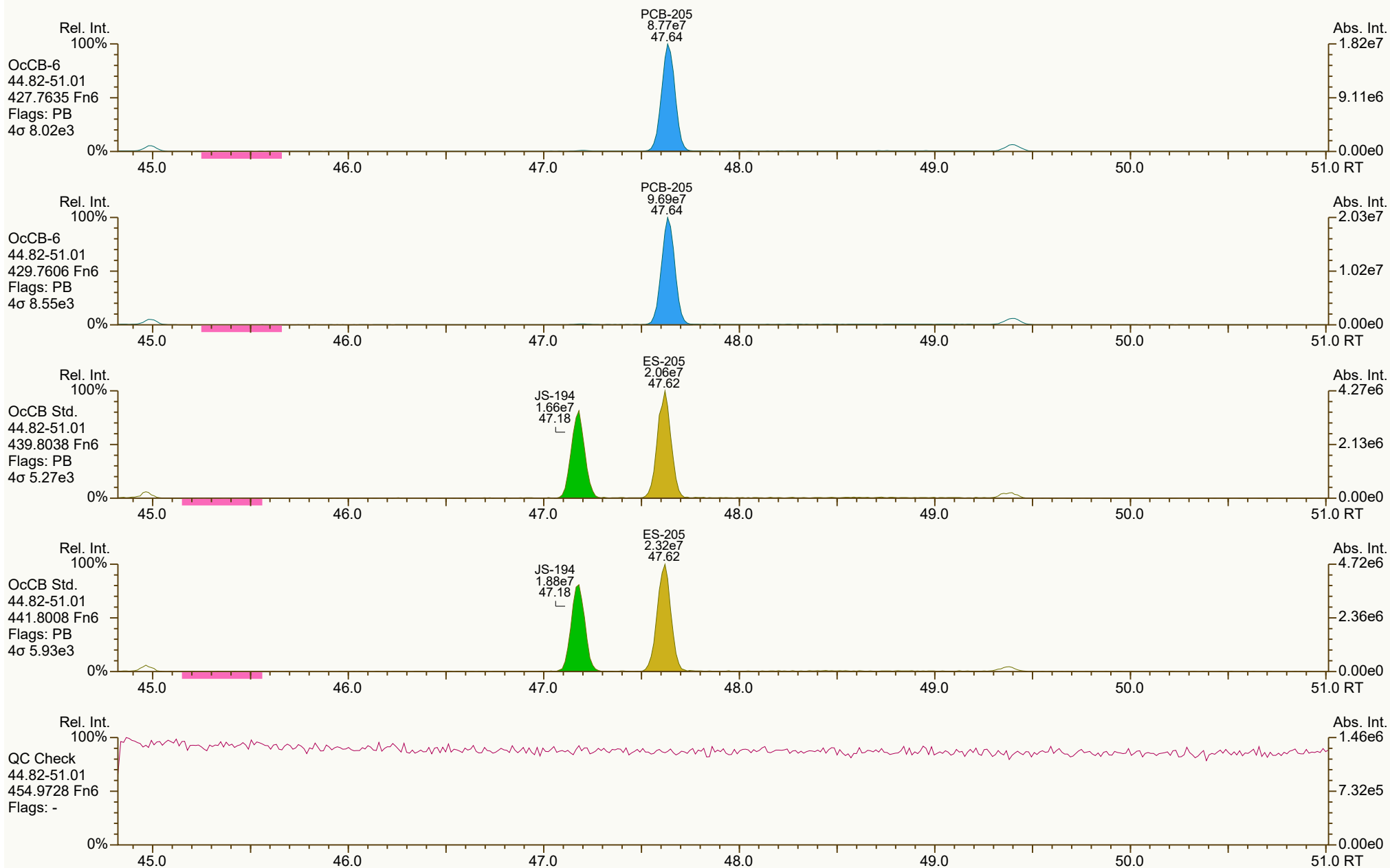
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Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:07 Page 18 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

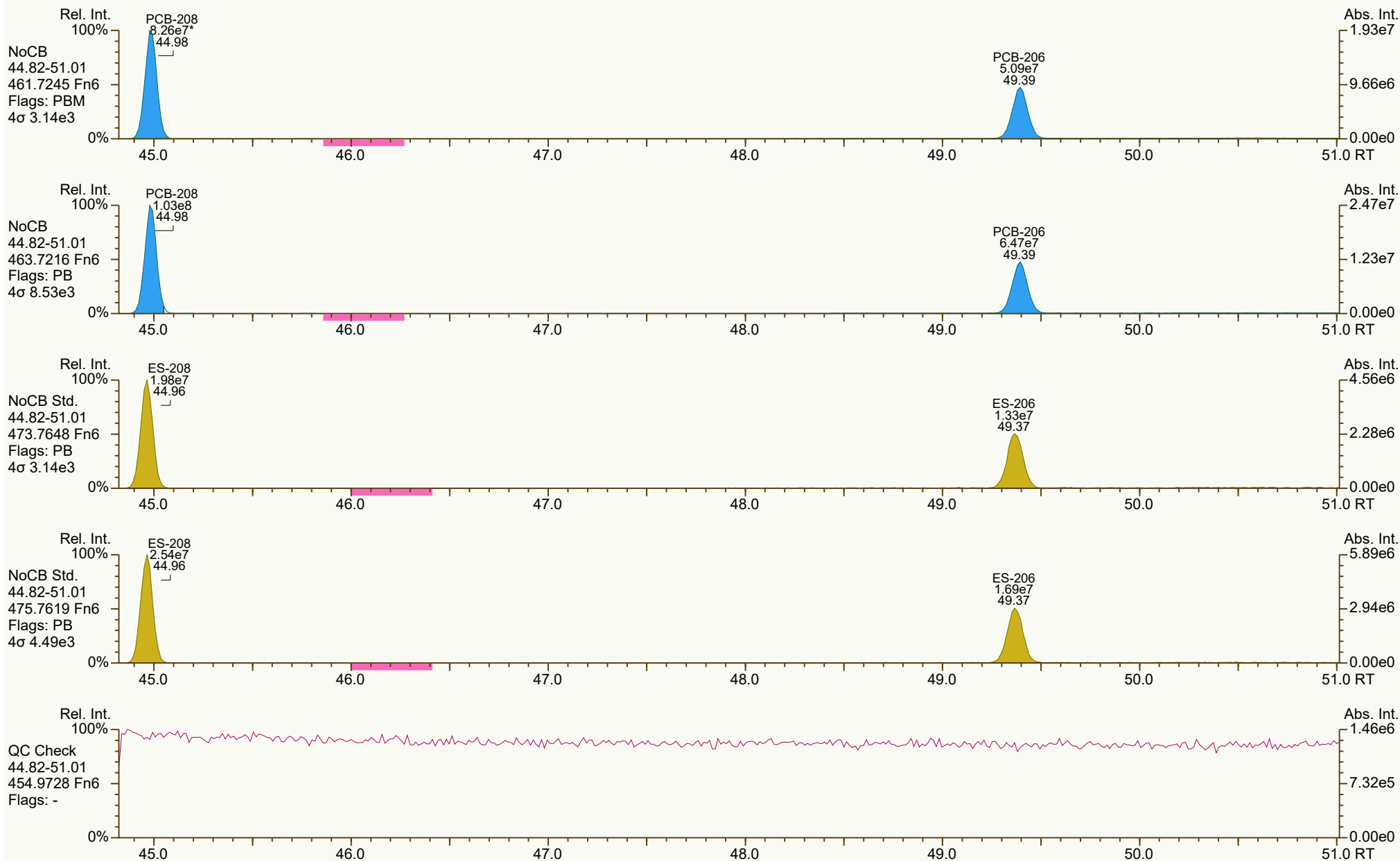
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Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
User: RAB Datafile: 240903S06



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS4_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 4421, 1935 scc: 884-834

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:07 Page 20 of 21

SGS ID: CS4_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-2
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 89

Acq: 03-Sep-2024 17:41:22
User: RAB Datafile: 240903S06



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS4_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 7590, 1474 scc: 884-834

Peak annotation: Areas, Centroids
PKD: 03-Sep-2024 19:00 Printed: 04-Sep-2024 13:07 Page 21 of 21

PCB QC Summary

SGS North America

Printed: 4-Sep-2024 13:02

Lab ID: CS5_240903_PCB_SA
 Acquired: 3-Sep-24 19:37:07
 Datafile: 240903S08

ICAL: MM4-PCB_03SEP2024

| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|-------------------------|-------|----------|--------|------|------|--------|
| PCB-77 33'44'-TeCB | 32.43 | 1.75E+09 | 0.81 Y | 1.45 | 1.33 | -8.5% |
| PCB-81 344'5'-TeCB | 31.95 | 1.75E+09 | 0.80 Y | 1.46 | 1.29 | -11.4% |
| PCB-105 233'44'-PeCB | 35.40 | 1.09E+09 | 0.64 Y | 1.18 | 1.08 | -8.6% |
| PCB-114 2344'5'-PeCB | 34.85 | 1.11E+09 | 0.64 Y | 1.14 | 1.09 | -5.2% |
| PCB-118 23'44'5'-PeCB | 34.39 | 1.15E+09 | 0.63 Y | 1.18 | 1.11 | -6.3% |
| PCB-123 23'44'5'-PeCB | 34.11 | 1.09E+09 | 0.63 Y | 1.19 | 1.10 | -7.8% |
| PCB-126 33'44'5'-PeCB | 38.01 | 1.46E+09 | 0.63 Y | 1.35 | 1.22 | -9.9% |
| PCB-156/157 ...-HxCB | 40.55 | 2.09E+09 | 1.25 Y | 1.23 | 1.15 | -6.7% |
| PCB-167 23'44'55'-HxCB | 39.56 | 1.07E+09 | 1.24 Y | 1.22 | 1.09 | -10.0% |
| PCB-169 33'44'55'-HxCB | 43.26 | 9.94E+08 | 1.25 Y | 1.23 | 1.12 | -8.9% |
| PCB-189 233'44'55'-HpCB | 45.38 | 1.08E+09 | 1.04 Y | 1.31 | 1.16 | -11.4% |
| PCB-209 DeCB | 51.22 | 5.02E+08 | 1.18 Y | 1.08 | 0.96 | -10.8% |
| | | | | | | |
| ES PCB-1 | 11.63 | 9.44E+07 | 3.17 Y | 1.09 | 1.06 | -2.2% |
| ES PCB-3 | 13.89 | 9.96E+07 | 3.17 Y | 1.06 | 1.12 | 5.6% |
| ES PCB-4 | 14.14 | 5.00E+07 | 1.55 Y | 0.52 | 0.56 | 8.4% |
| ES PCB-15 | 19.80 | 1.04E+08 | 1.52 Y | 1.11 | 1.17 | 5.0% |
| ES PCB-19 | 17.19 | 4.97E+07 | 1.04 Y | 0.54 | 0.56 | 3.6% |
| ES PCB-37 | 26.10 | 7.53E+07 | 1.02 Y | 1.71 | 1.69 | -0.8% |
| ES PCB-54 | 20.08 | 3.45E+07 | 0.81 Y | 0.78 | 0.77 | -0.3% |
| ES PCB-77 | 32.41 | 6.59E+07 | 0.71 Y | 1.53 | 1.48 | -3.0% |
| ES PCB-81 | 31.93 | 6.77E+07 | 0.69 Y | 1.55 | 1.52 | -2.0% |
| ES PCB-104 | 25.01 | 2.99E+07 | 1.50 Y | 0.74 | 0.77 | 3.9% |
| ES PCB-105 | 35.38 | 5.06E+07 | 1.51 Y | 1.31 | 1.31 | 0.1% |
| ES PCB-114 | 34.83 | 5.11E+07 | 1.50 Y | 1.34 | 1.32 | -1.6% |
| ES PCB-118 | 34.37 | 5.21E+07 | 1.50 Y | 1.35 | 1.35 | -0.5% |
| ES PCB-123 | 34.09 | 4.96E+07 | 1.47 Y | 1.29 | 1.28 | -0.7% |
| ES PCB-126 | 37.99 | 5.99E+07 | 1.41 Y | 1.59 | 1.55 | -3.0% |
| ES PCB-153 | 35.94 | 3.22E+07 | 1.22 Y | 1.10 | 1.07 | -2.6% |
| ES PCB-155 | 29.93 | 4.07E+07 | 1.19 Y | 1.38 | 1.36 | -1.4% |
| ES PCB-156/157 | 40.53 | 9.09E+07 | 1.11 Y | 1.62 | 1.51 | -6.6% |
| ES PCB-167 | 39.54 | 4.88E+07 | 1.13 Y | 1.70 | 1.62 | -4.5% |
| ES PCB-169 | 43.25 | 4.42E+07 | 1.11 Y | 1.55 | 1.47 | -5.3% |
| ES PCB-170 | 42.75 | 2.91E+07 | 0.94 Y | 1.06 | 1.04 | -1.9% |
| ES PCB-180 | 41.68 | 3.61E+07 | 0.97 Y | 1.30 | 1.29 | -0.9% |
| ES PCB-188 | 34.80 | 1.90E+07 | 1.01 Y | 0.63 | 0.63 | 1.1% |
| ES PCB-189 | 45.36 | 4.69E+07 | 0.92 Y | 1.71 | 1.67 | -2.1% |
| ES PCB-202 | 39.34 | 2.79E+07 | 0.88 Y | 0.96 | 0.93 | -3.0% |
| ES PCB-205 | 47.61 | 3.42E+07 | 0.89 Y | 1.23 | 1.22 | -1.1% |
| ES PCB-206 | 49.36 | 2.38E+07 | 0.78 Y | 0.84 | 0.85 | 1.0% |
| ES PCB-208 | 44.95 | 3.47E+07 | 0.80 Y | 1.25 | 1.24 | -1.0% |
| ES PCB-209 | 51.19 | 2.62E+07 | 1.18 Y | 0.94 | 0.93 | -0.9% |

PCB QC Summary

SGS North America

Printed: 4-Sep-2024 13:02

Lab ID: CS5_240903_PCB_SA
 Acquired: 3-Sep-24 19:37:07
 Datafile: 240903S08

ICAL: MM4-PCB_03SEP2024

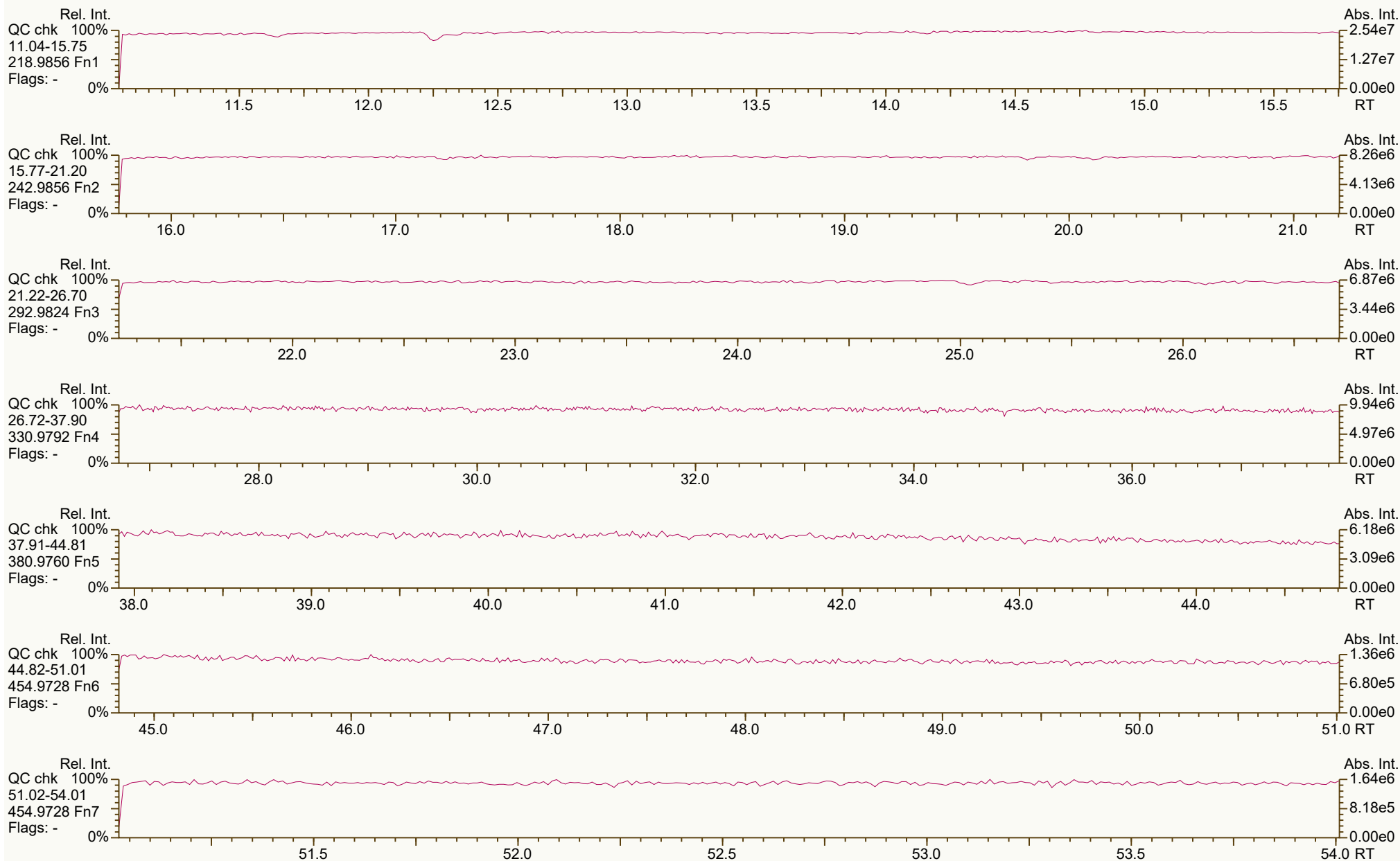
| Name | RT | Response | RA | ICAL | RRF | Dev'n |
|----------------------------|--------|----------|--------|------|------|--------|
| SS PCB-28 | 22.55 | 7.24E+07 | 1.01 Y | 1.01 | 0.96 | -5.2% |
| SS PCB-111 | 32.41 | 4.79E+07 | 1.52 Y | 0.97 | 0.97 | -0.2% |
| SS PCB-178 | 37.38 | 1.37E+07 | 1.07 Y | 0.74 | 0.72 | -2.8% |
| CS PCB-28 | 22.55 | 7.24E+07 | 1.01 Y | 1.73 | 1.63 | -6.0% |
| CS PCB-111 | 32.41 | 4.79E+07 | 1.52 Y | 1.25 | 1.24 | -0.9% |
| CS PCB-178 | 37.38 | 1.37E+07 | 1.07 Y | 0.46 | 0.45 | -1.6% |
| JS PCB-9 | 16.09 | 8.89E+07 | 1.52 Y | - | - | - |
| JS PCB-52 | 24.16 | 4.45E+07 | 0.73 Y | - | - | - |
| JS PCB-101 | 30.12 | 3.87E+07 | 1.53 Y | - | - | - |
| JS PCB-138 | 37.01 | 3.00E+07 | 1.19 Y | - | - | - |
| JS PCB-194 | 47.16 | 2.80E+07 | 0.89 Y | - | - | - |
| PCB-1 2-MoCB | 11.64 | 2.52E+09 | 3.22 Y | 1.47 | 1.34 | -9.5% |
| PCB-3 4-MoCB | 13.90 | 2.62E+09 | 3.25 Y | 1.45 | 1.31 | -9.6% |
| PCB-4 22'-DiCB | 14.15 | 1.20E+09 | 1.58 Y | 1.30 | 1.20 | -7.1% |
| PCB-15 44'-DiCB | 19.82 | 2.49E+09 | 1.54 Y | 1.31 | 1.20 | -8.4% |
| PCB-19 22'6-TrCB | 17.21 | 1.09E+09 | 1.04 Y | 1.16 | 1.09 | -6.2% |
| PCB-37 344'-TrCB | 26.12 | 2.00E+09 | 1.10 Y | 1.43 | 1.32 | -7.5% |
| PCB-54 22'66'-TeCB | 20.10 | 9.60E+08 | 0.82 Y | 1.52 | 1.39 | -8.4% |
| PCB-104 22'466'-PeCB | 25.04 | 7.92E+08 | 0.61 Y | 1.46 | 1.32 | -9.4% |
| PCB-155 22'44'66'-HxCB | 29.96 | 1.00E+09 | 1.29 Y | 1.36 | 1.23 | -9.1% |
| PCB-188 22'34'566'-HpCB | 34.83 | 5.11E+08 | 1.06 Y | 1.55 | 1.34 | -13.1% |
| PCB-202 22'33'55'66'-OoCB | 39.36 | 6.54E+08 | 0.87 Y | 1.32 | 1.17 | -11.3% |
| PCB-205 233'44'55'6-OoCB | 47.63 | 6.90E+08 | 0.90 Y | 1.12 | 1.01 | -9.8% |
| PCB-208 22'33'455'66'-NoCB | 44.98 | 6.95E+08 | 0.79 Y | 1.11 | 1.00 | -9.7% |
| PCB-206 22'33'44'55'6-NoCB | 49.38 | 4.23E+08 | 0.79 Y | 1.04 | 0.89 | -14.3% |
| FS PCB-8 | 16.90 | 8.79E+07 | 1.52 Y | 0.90 | 0.85 | -5.6% |
| FS PCB-31 | 22.278 | 7.30E+07 | 1.01 Y | 1.03 | 0.97 | -5.8% |
| FS PCB-60 | 29.416 | 5.73E+07 | 0.71 Y | 0.87 | 0.85 | -2.5% |
| FS PCB-85 | 31.692 | 3.39E+07 | 1.49 Y | 0.68 | 0.68 | 0.2% |
| FS PCB-128 | 38.098 | 3.22E+07 | 1.16 Y | 0.66 | 0.66 | -0.4% |
| FS PCB-182 | 38.321 | 3.25E+07 | 0.98 Y | 0.90 | 0.90 | 0.5% |
| AS PCB-32 | 20.23 | 7.06E+07 | 1.04 Y | 0.77 | 0.79 | 3.2% |
| AS PCB-97 | 31.06 | 3.35E+07 | 1.47 Y | 0.86 | 0.87 | 0.2% |
| AS PCB-159 | 36.89 | 4.51E+07 | 1.10 Y | 1.57 | 1.50 | -4.6% |

NR - CL 04Sep24

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



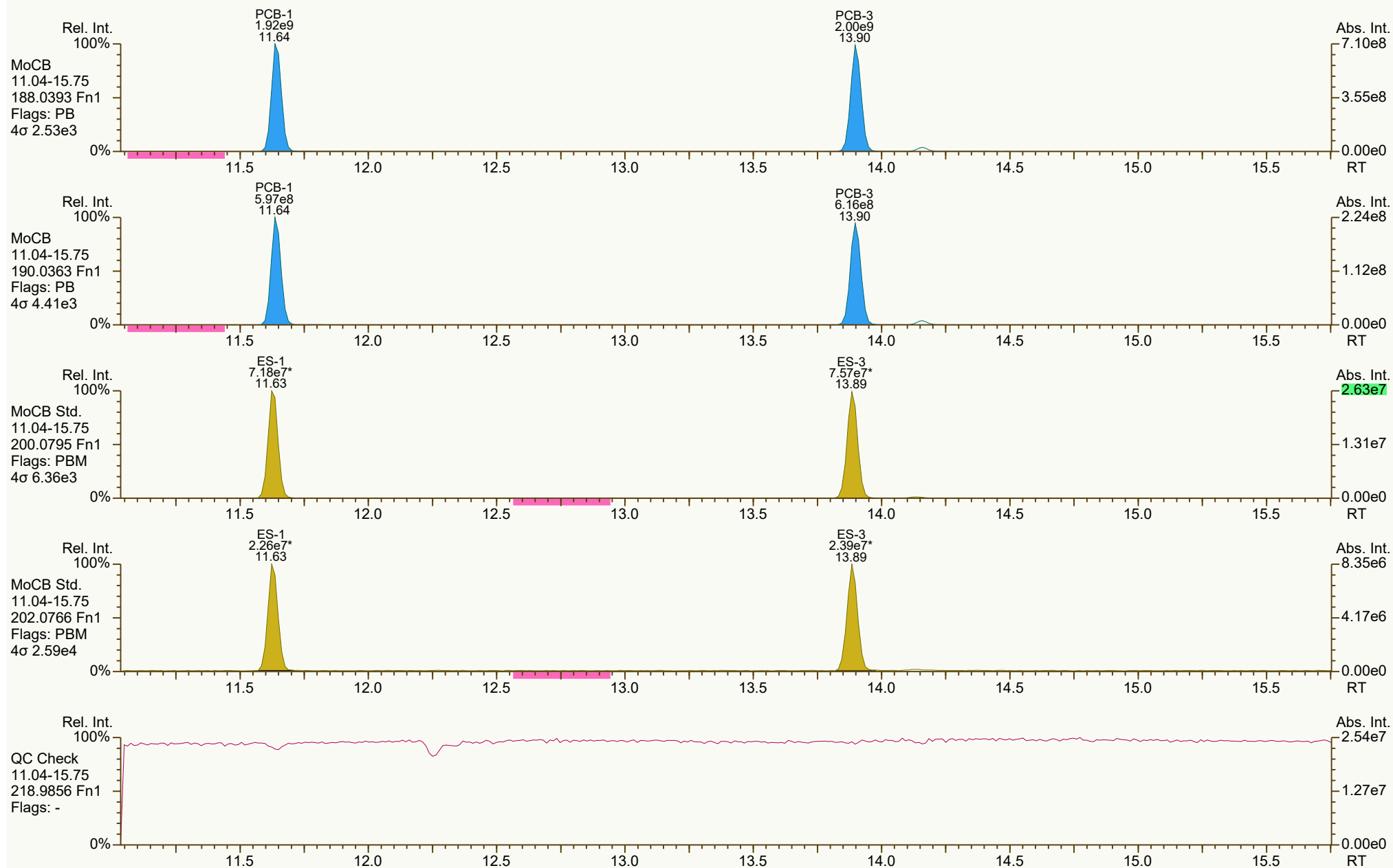
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX scc: 264-113

Peak annotation: Areas, Centroids
PKD: n/a Printed: 04-Sep-2024 13:07 Page 1 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



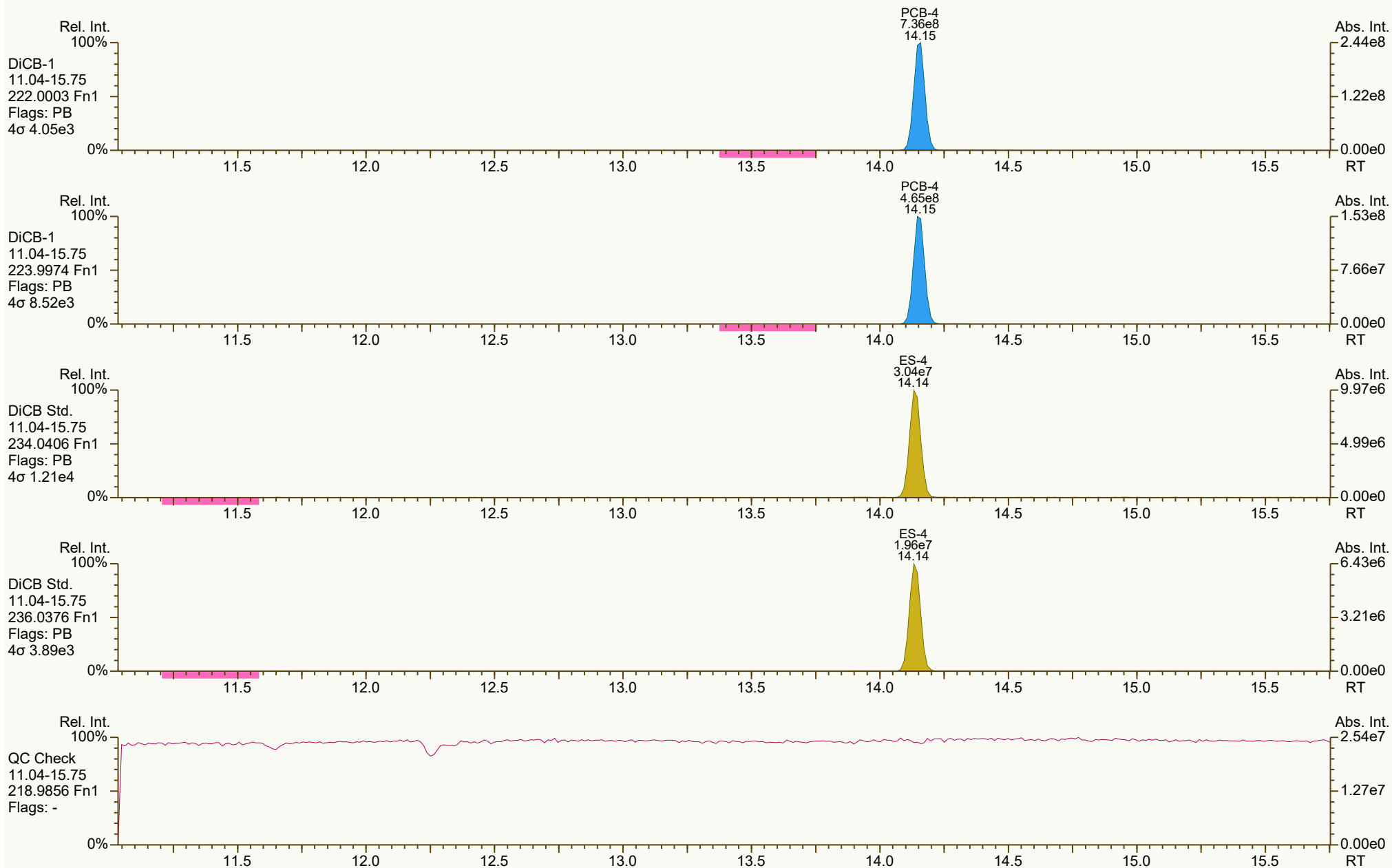
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 0198, 4052 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 13:07 Page 2 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 8174, 6599 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:16 Printed: 04-Sep-2024 13:07 Page 3 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



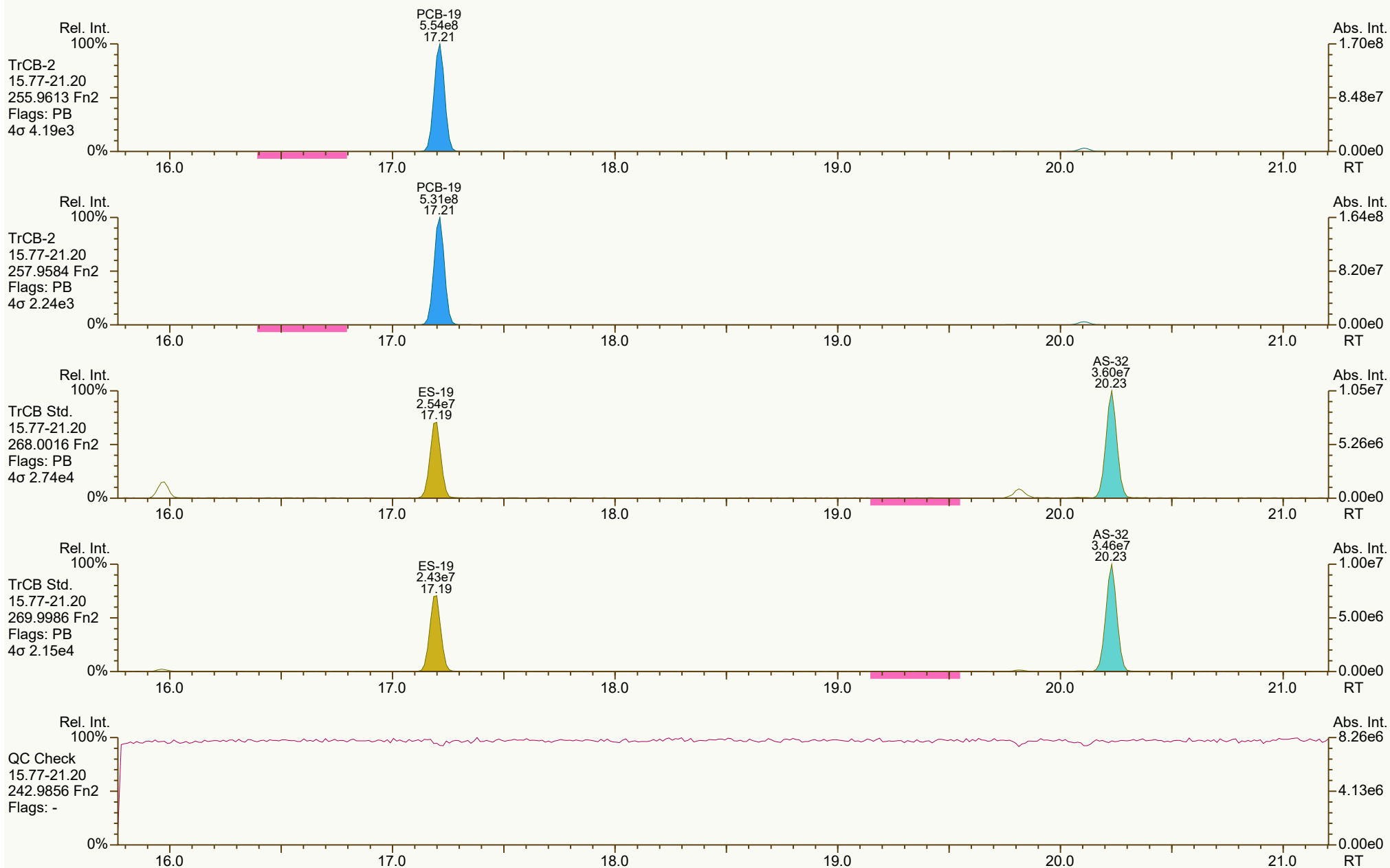
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 9461, 4284 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 13:07 Page 4 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 13:08 Page 5 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



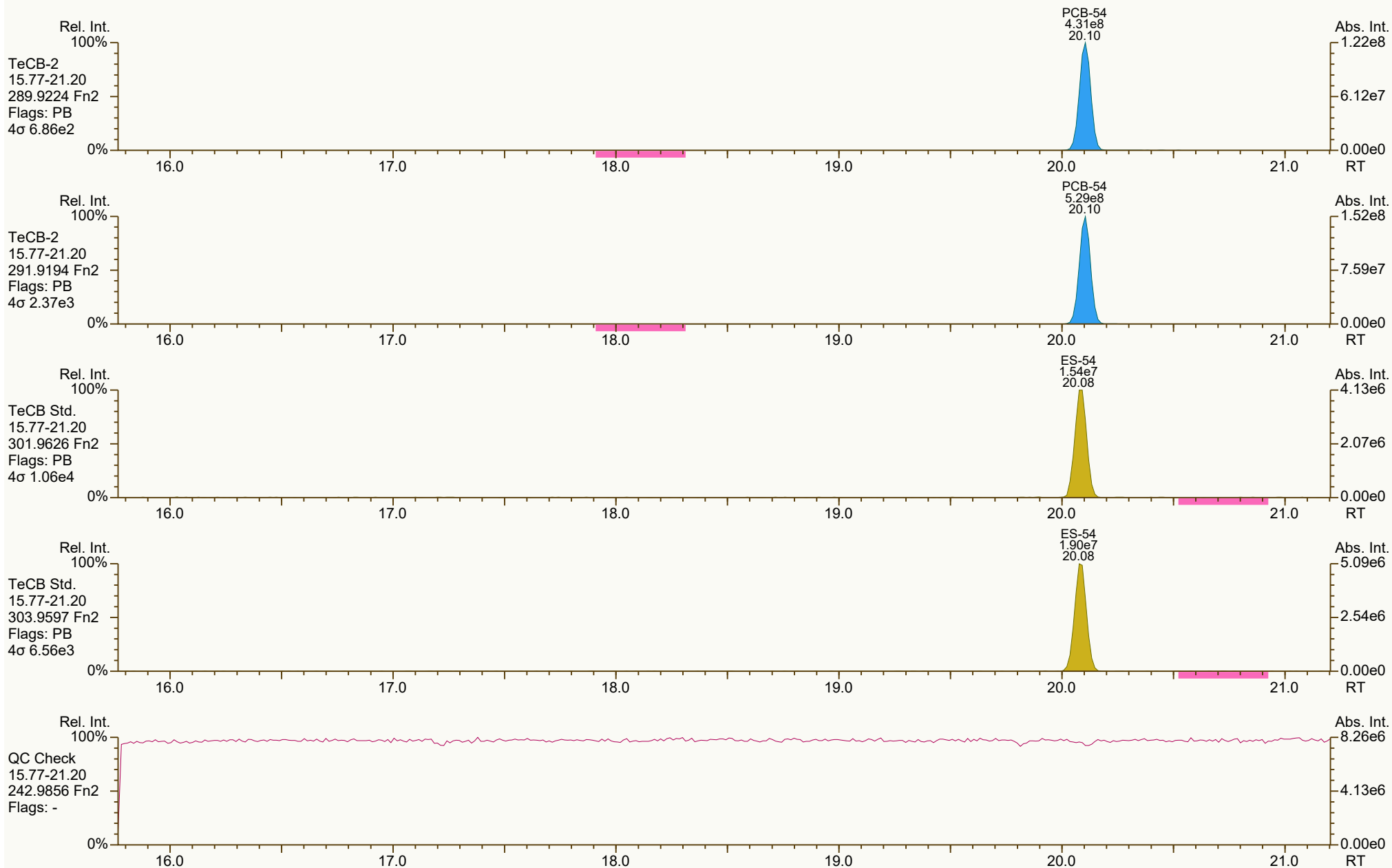
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 2399, 8513 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 13:08 Page 6 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



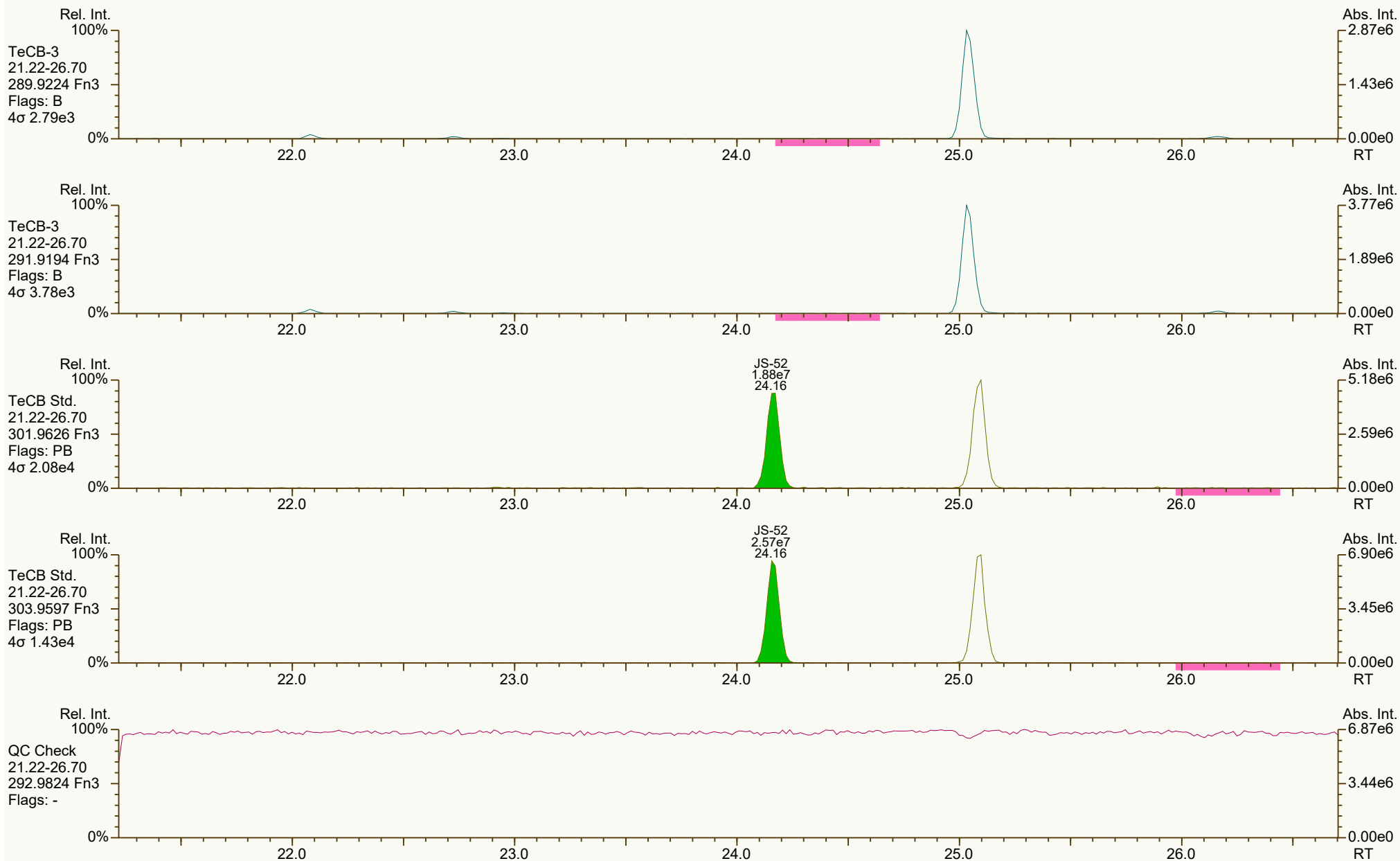
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 8248, 2216 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:16 Printed: 04-Sep-2024 13:08 Page 7 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

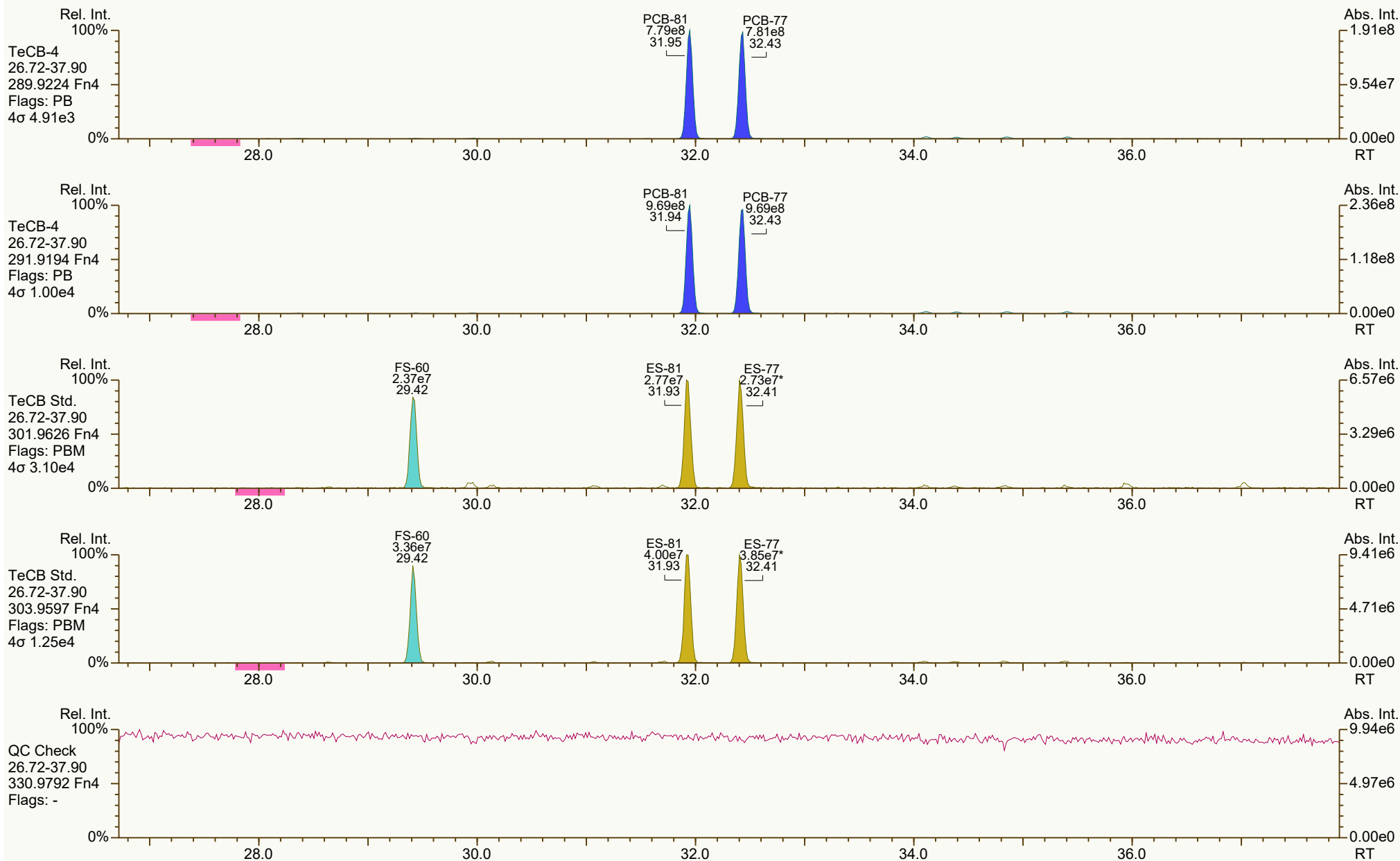
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SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



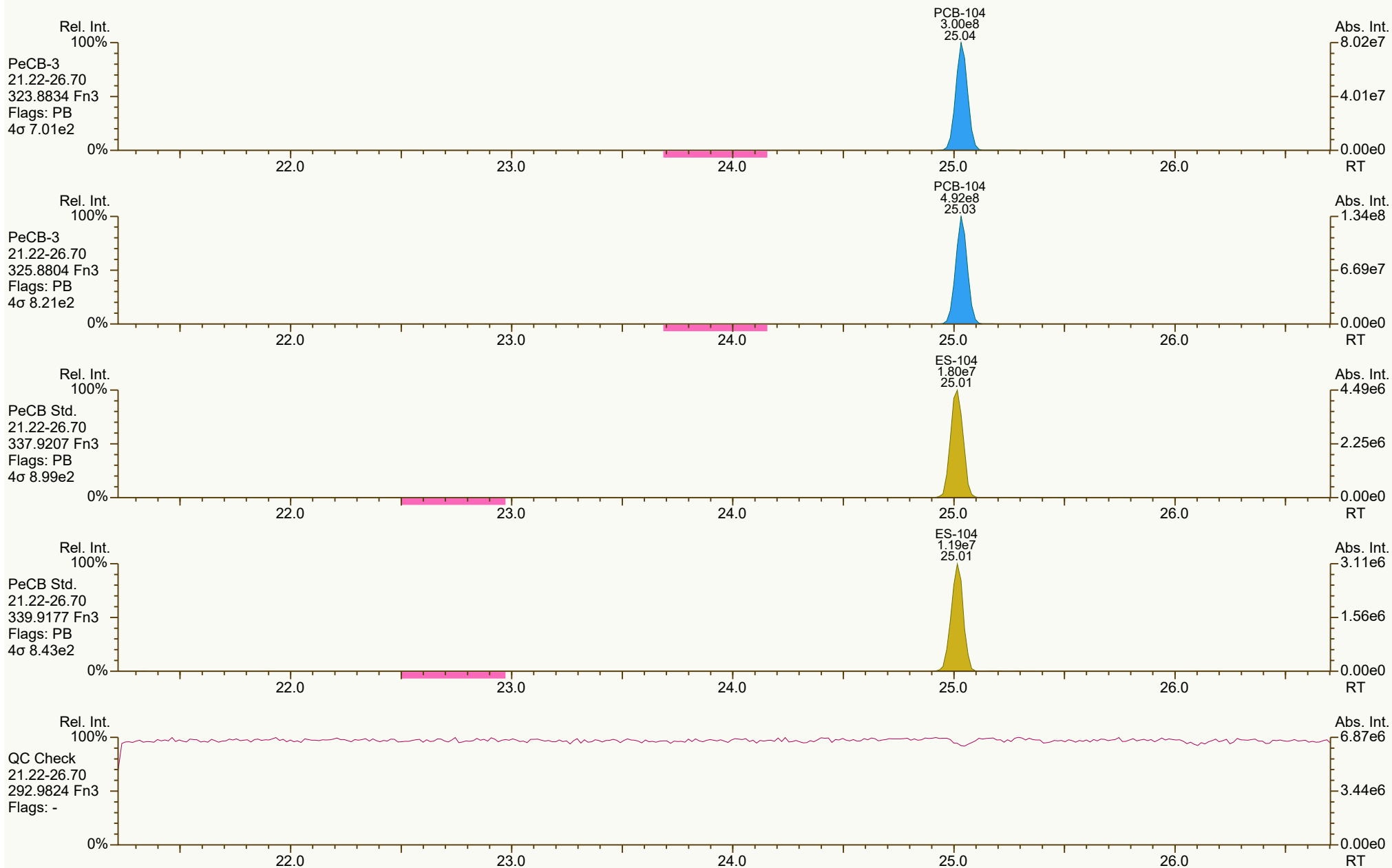
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 2356, 5433 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 13:08 Page 9 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



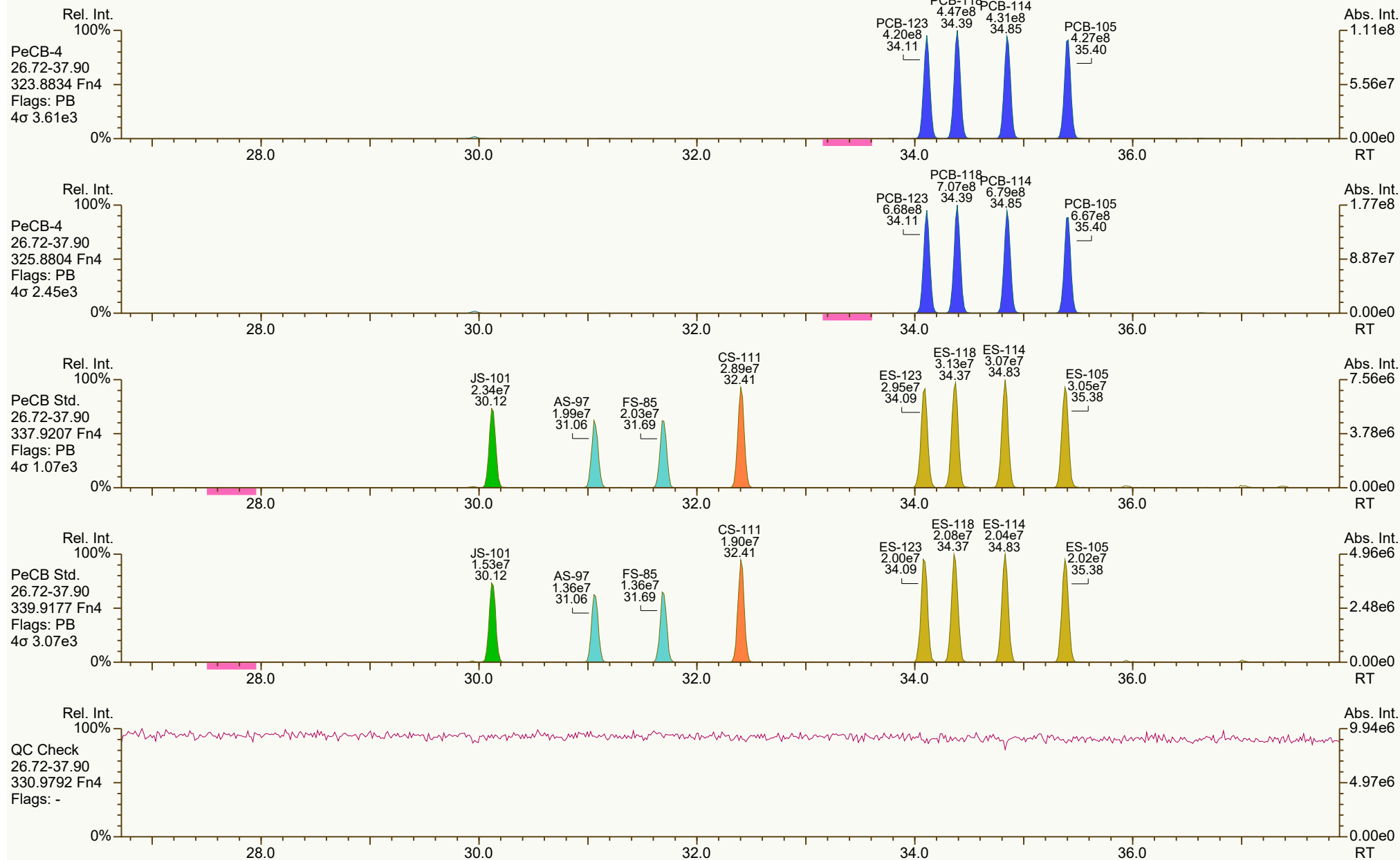
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 1935, 2648 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:16 Printed: 04-Sep-2024 13:08 Page 10 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



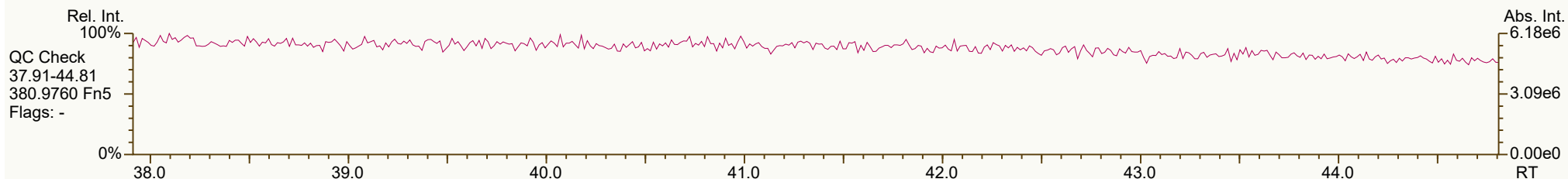
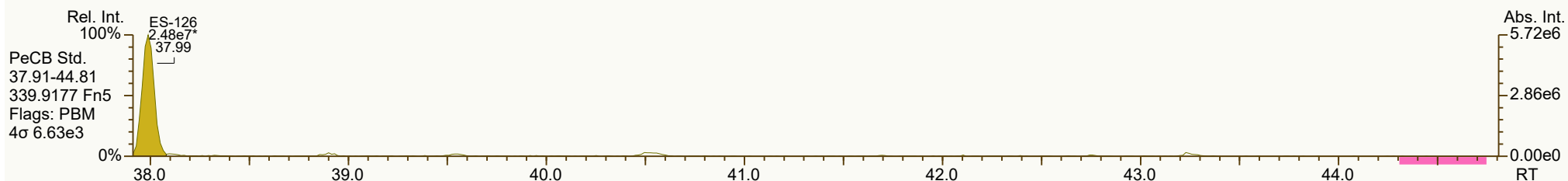
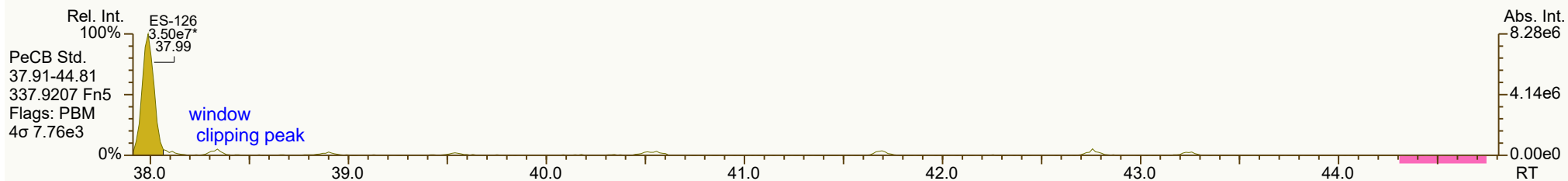
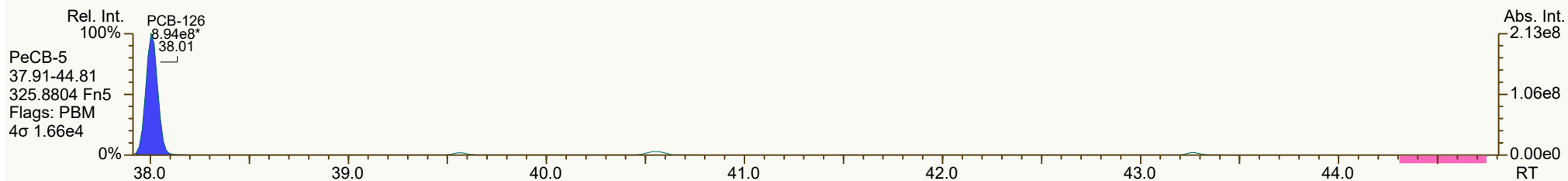
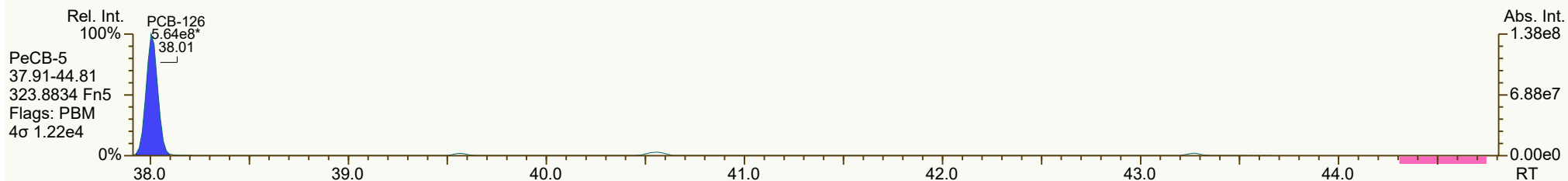
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 6024, 0333 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 13:08 Page 11 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

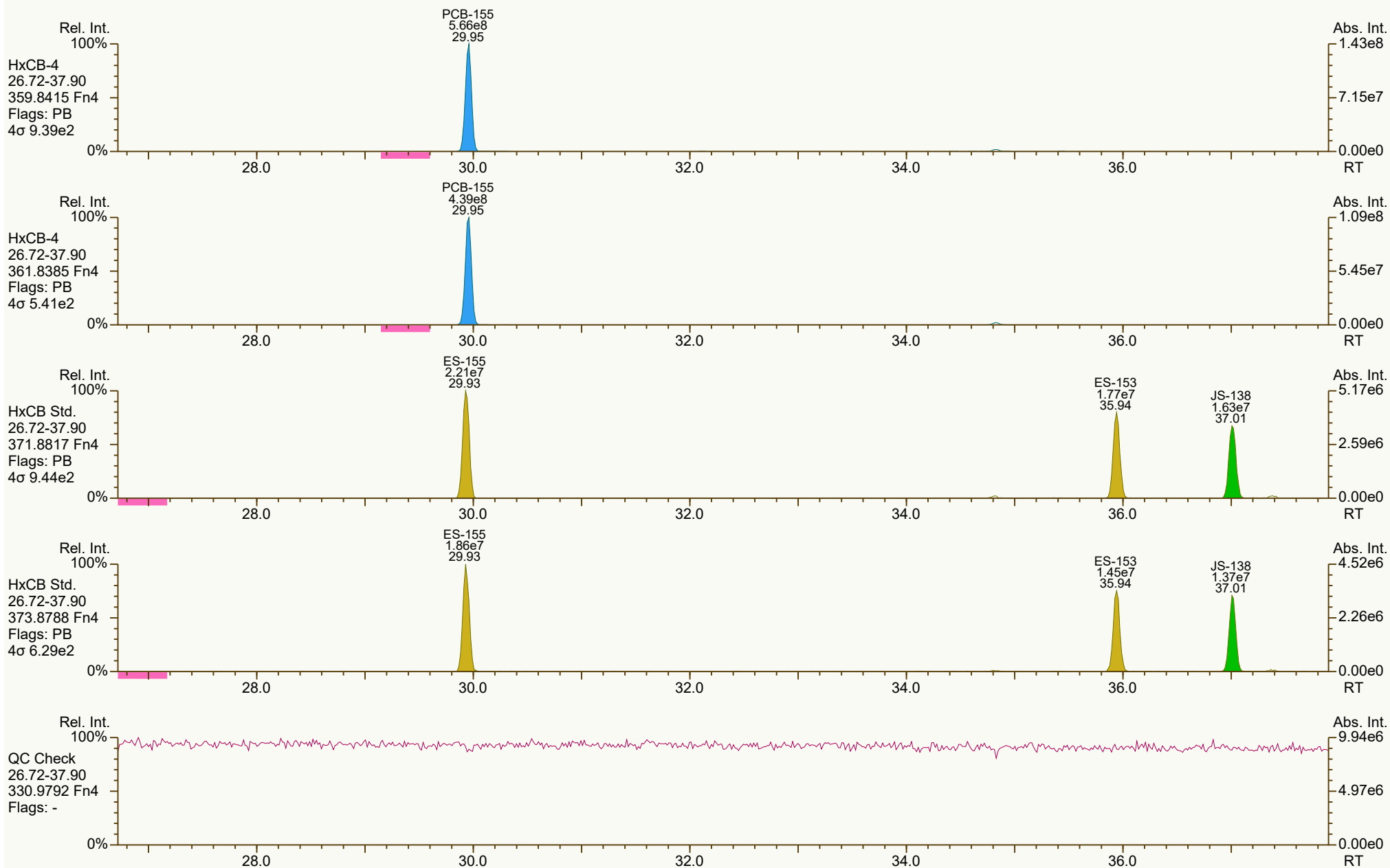
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User: RAB Datafile: 240903S08



SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



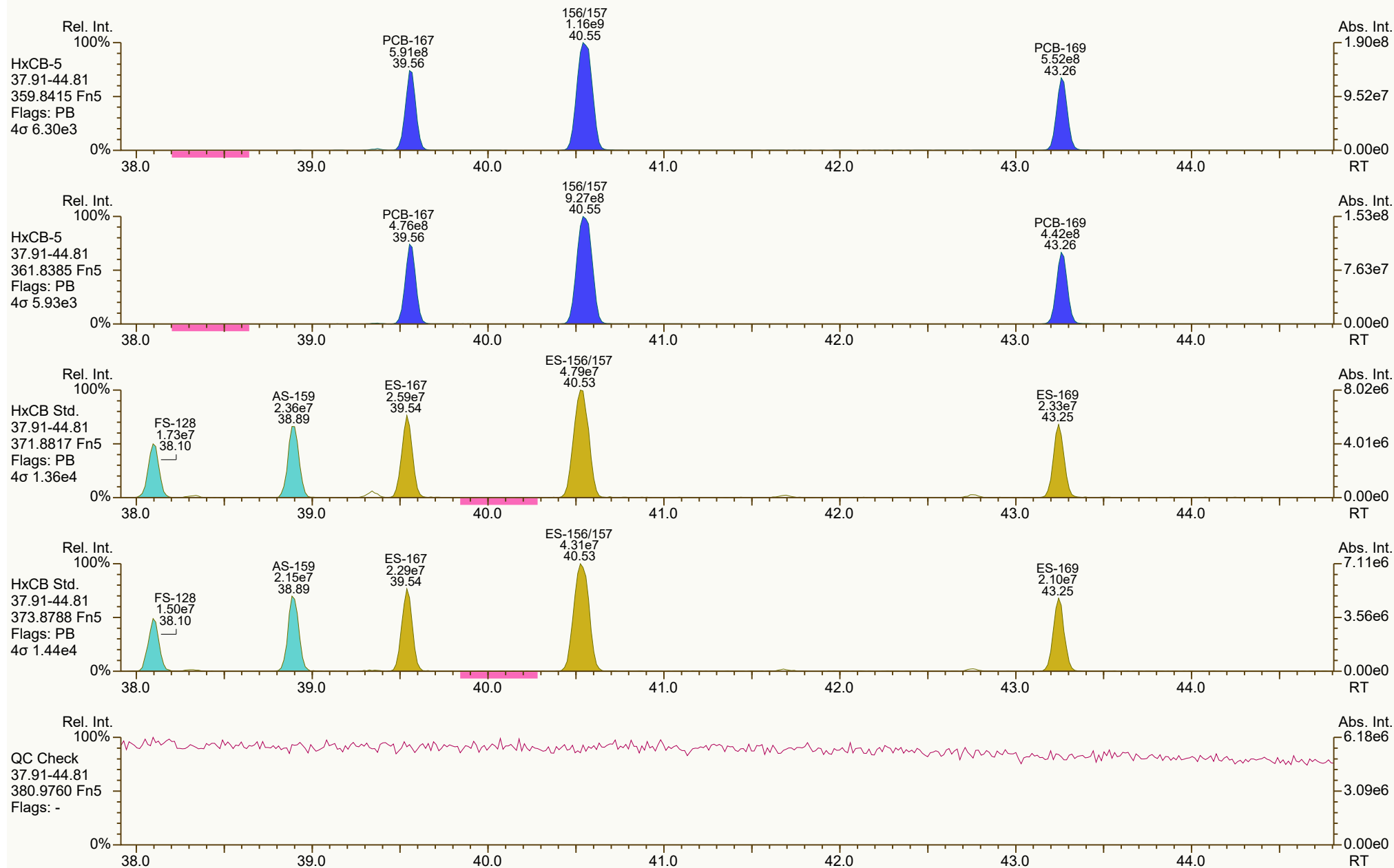
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 1739, 4952 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 13:08 Page 13 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



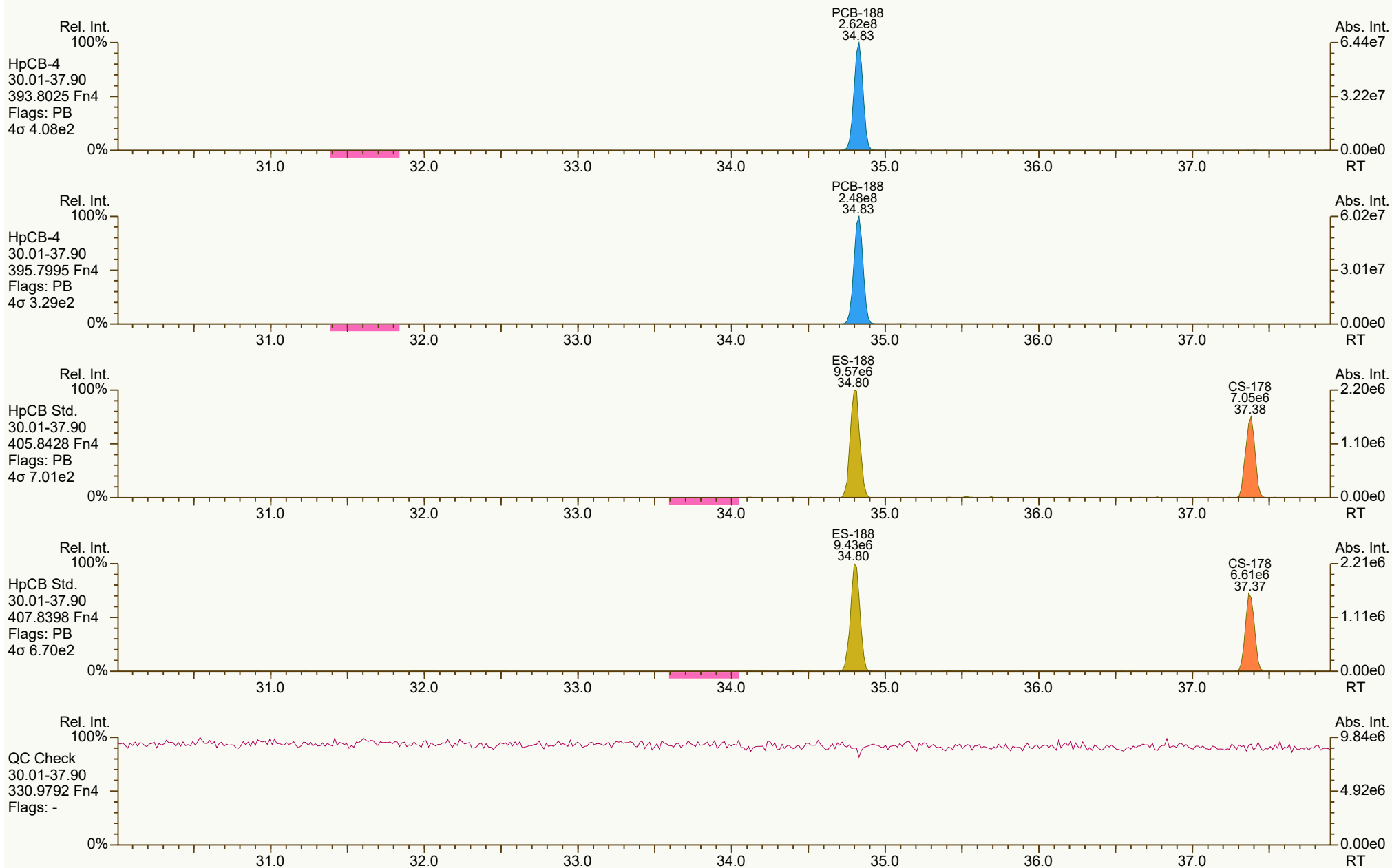
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 9379, 3886 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 13:08 Page 14 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\CS5_240903_PCB_SA.utp_res, saved 04-Sep-2024 13:01 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 3609, 8239 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 13:08 Page 15 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

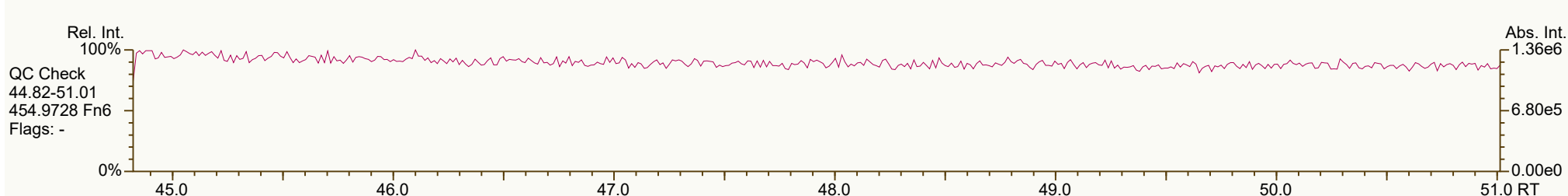
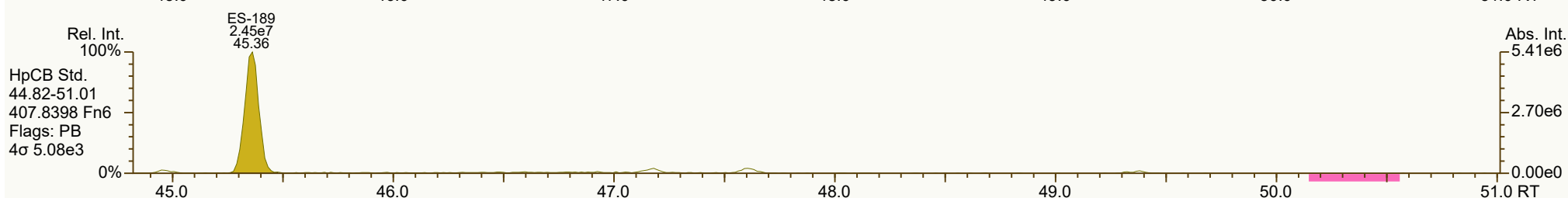
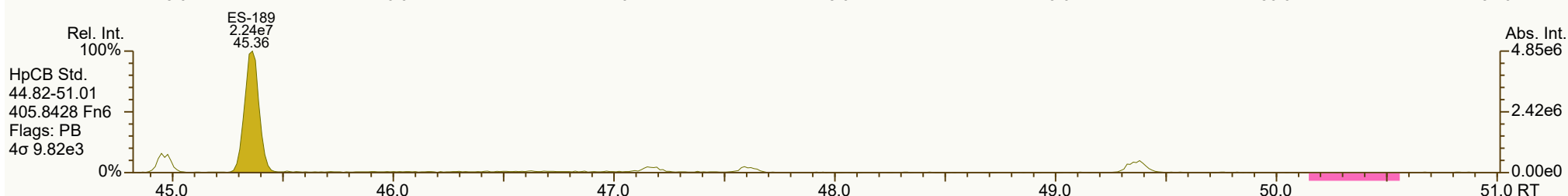
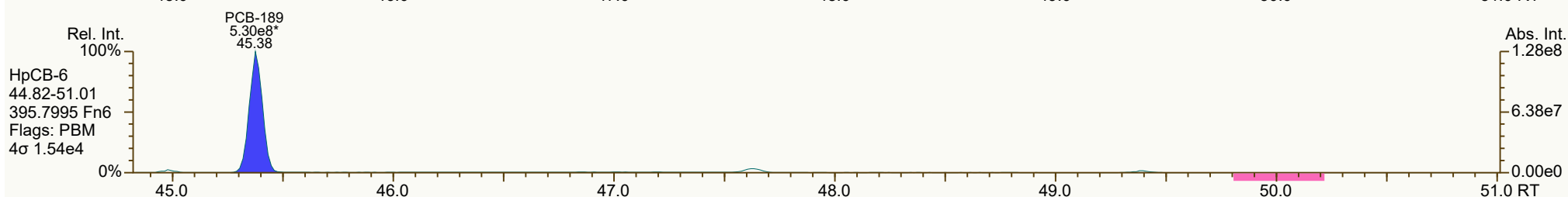
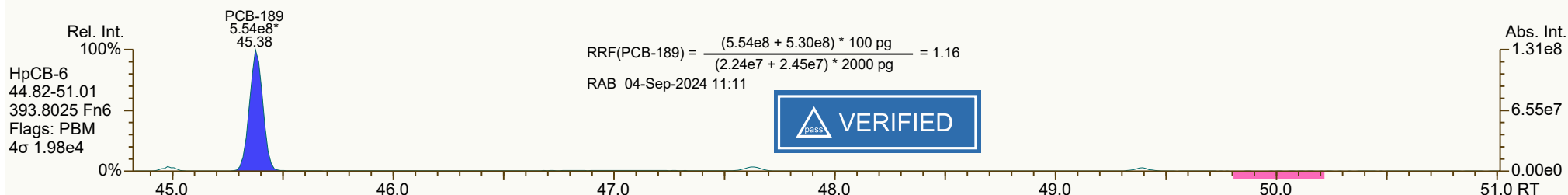
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User: RAB Datafile: 240903S08



SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



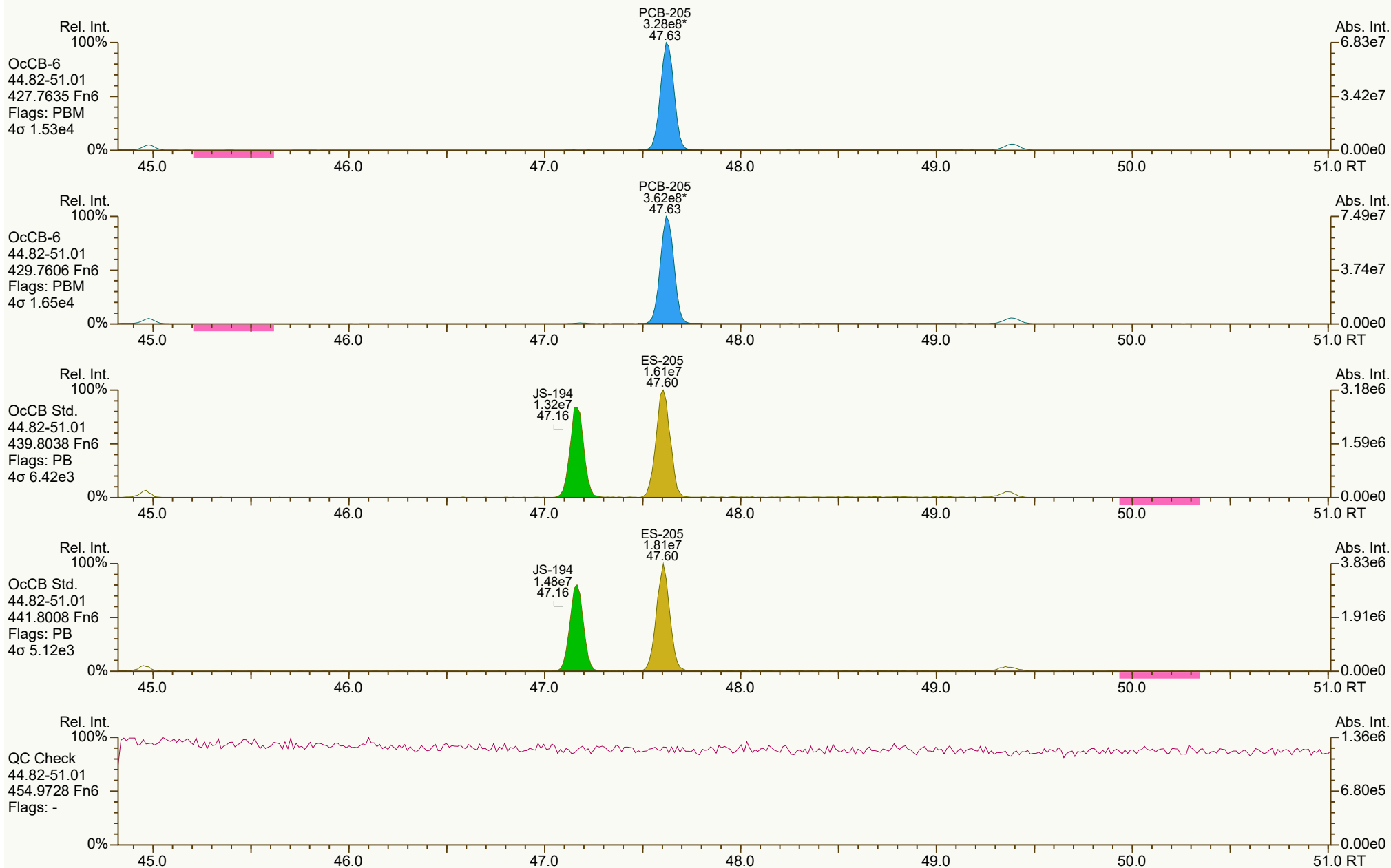
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 3427, 7531 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 13:08 Page 18 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



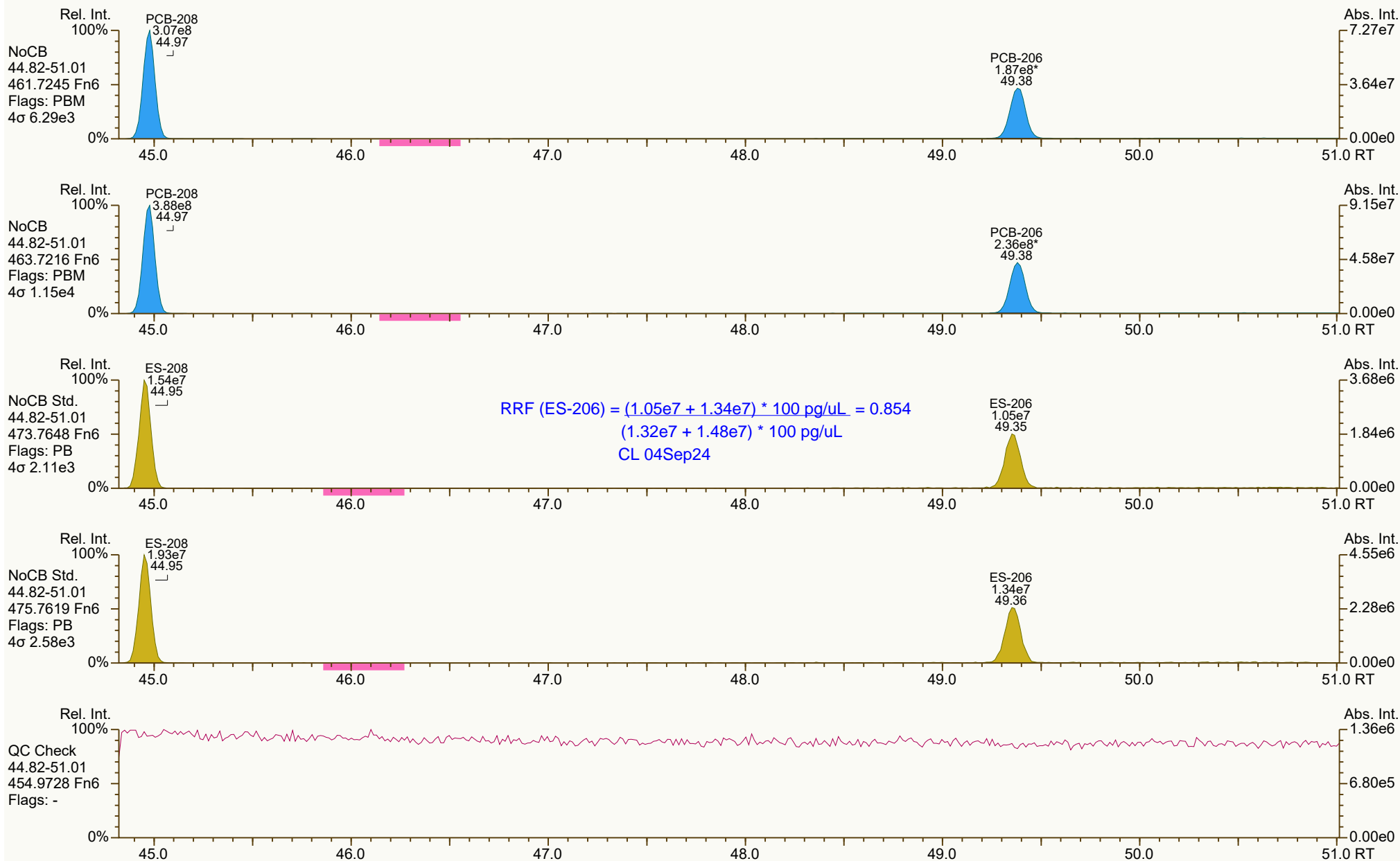
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 3743, 8158 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 13:08 Page 19 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 0207, 9842 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 13:08 Page 20 of 21

SGS ID: CS5_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ICAL SIL 27-47-1
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 90

Acq: 03-Sep-2024 19:37:07
User: RAB Datafile: 240903S08



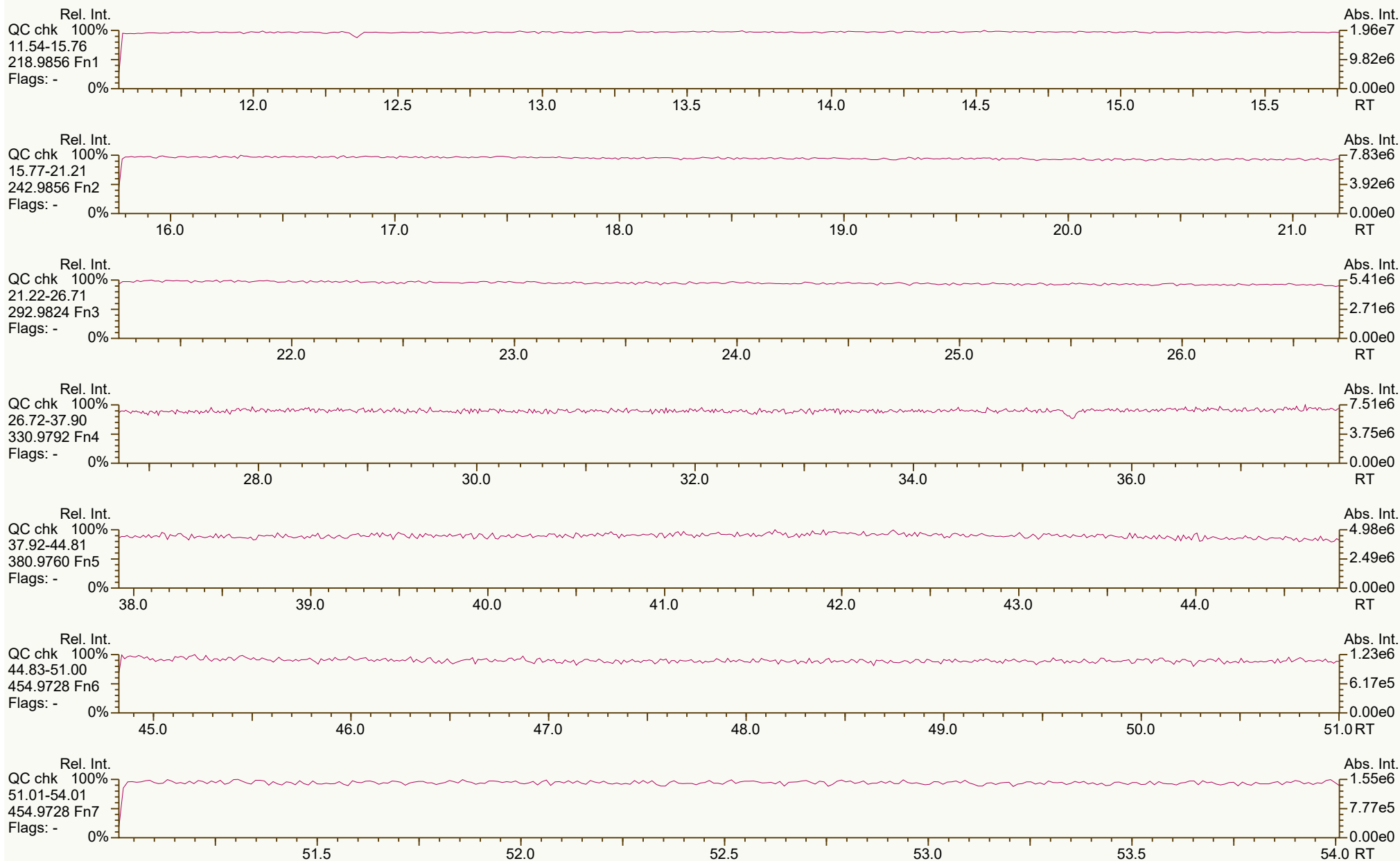
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 8461, 4894 scc: 264-113

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:16 Printed: 04-Sep-2024 13:08 Page 21 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\SB_240903_PCB_SA.utp_res, saved 04-Sep-2024 11:25 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX scc: 522-558

Peak annotation: Areas, Centroids
PKD: n/a Printed: 04-Sep-2024 13:04 Page 1 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



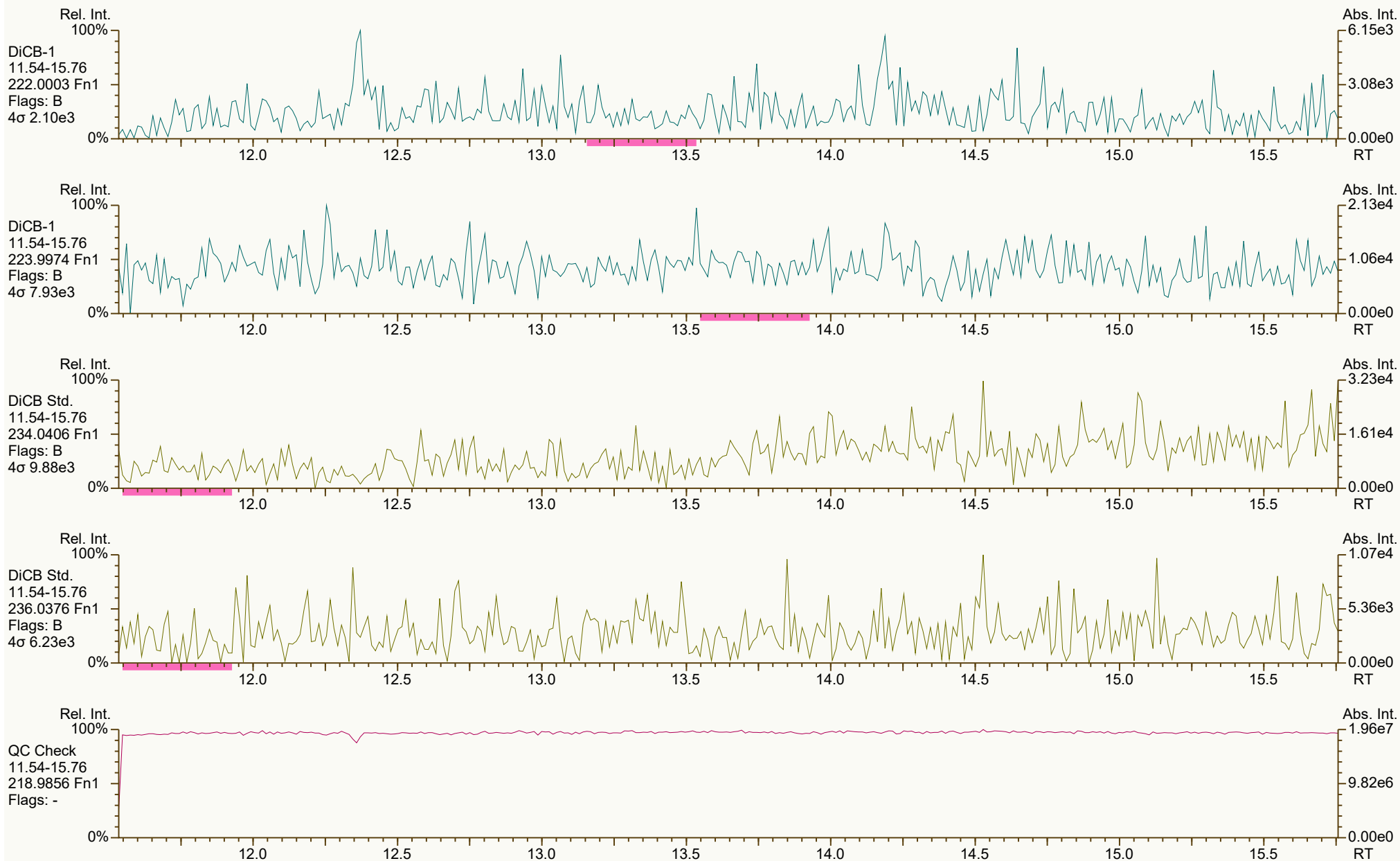
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 2117, 9429 scc: 522-558

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 2 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 9392, 1079 scc: 522-558

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 3 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 4 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 9043, 4189 scc: 522-558

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 5 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 6 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



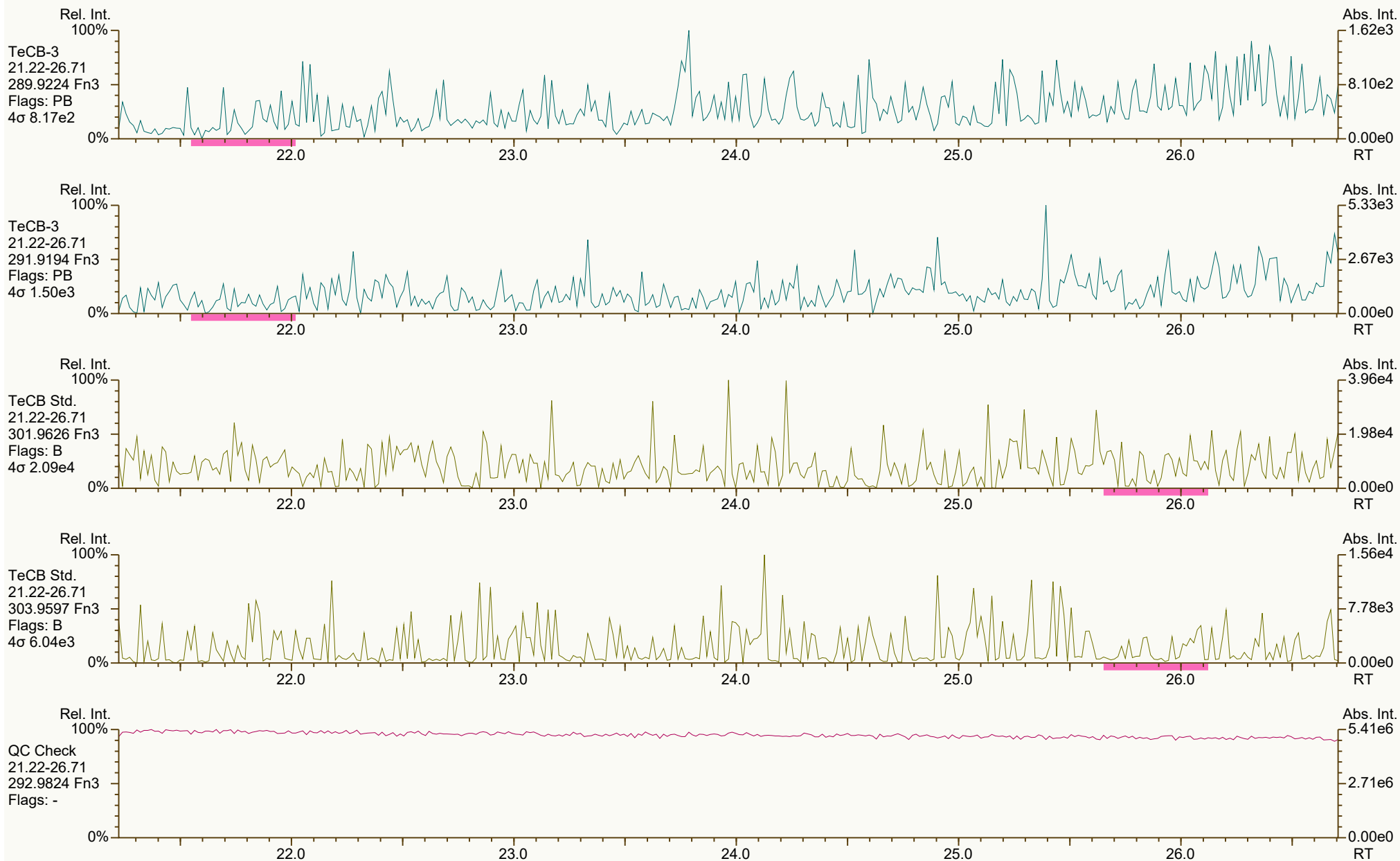
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Peak annotation: Areas, Centroids
Revised: 04-Sep-2024 11:25 (RAB) Printed: 04-Sep-2024 13:04 Page 7 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



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Peak annotation: Areas, Centroids
Revised: 04-Sep-2024 11:25 (RAB) Printed: 04-Sep-2024 13:04 Page 8 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 9 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 10 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 11 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



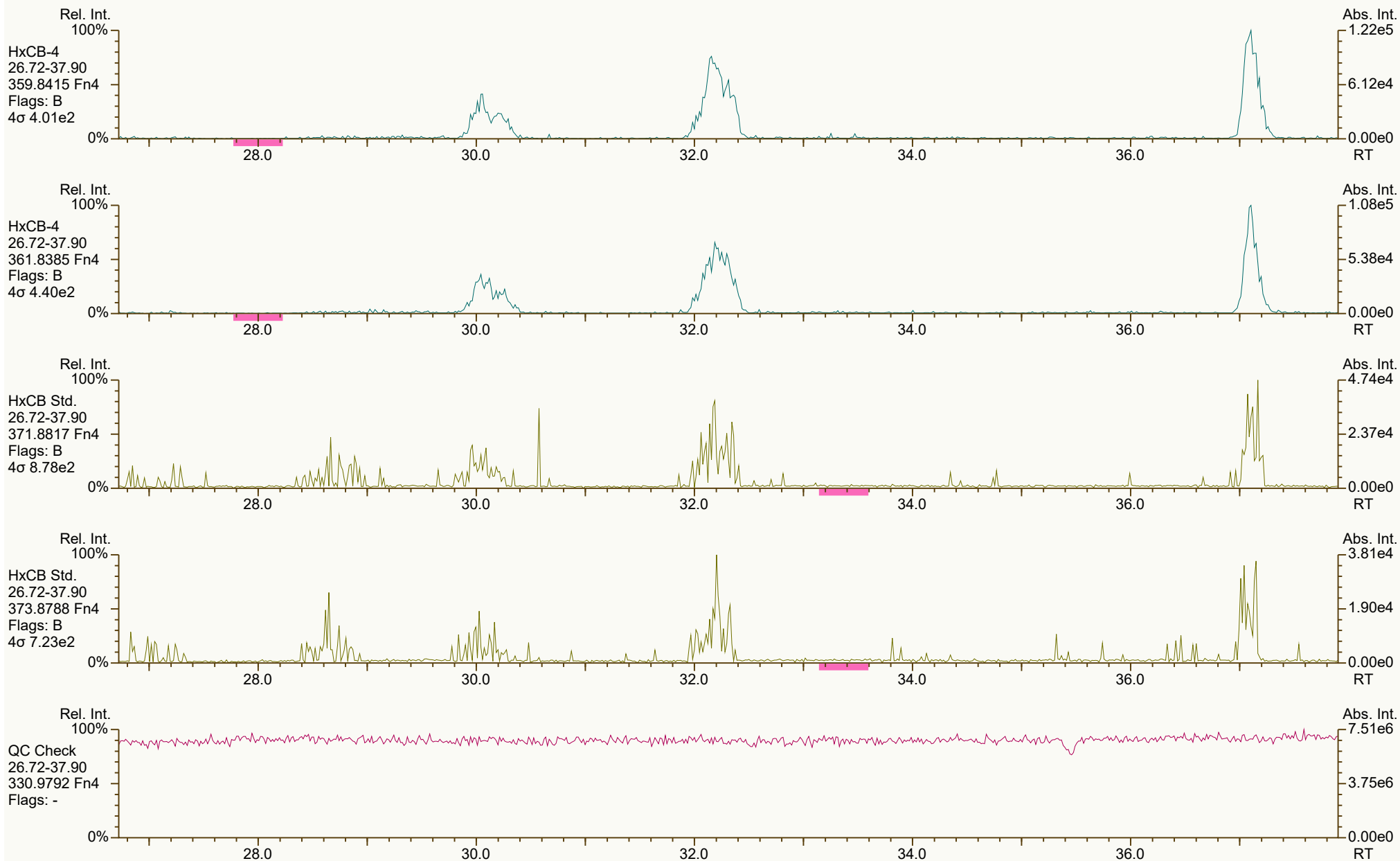
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 12 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 13 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 14 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 15 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 16 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



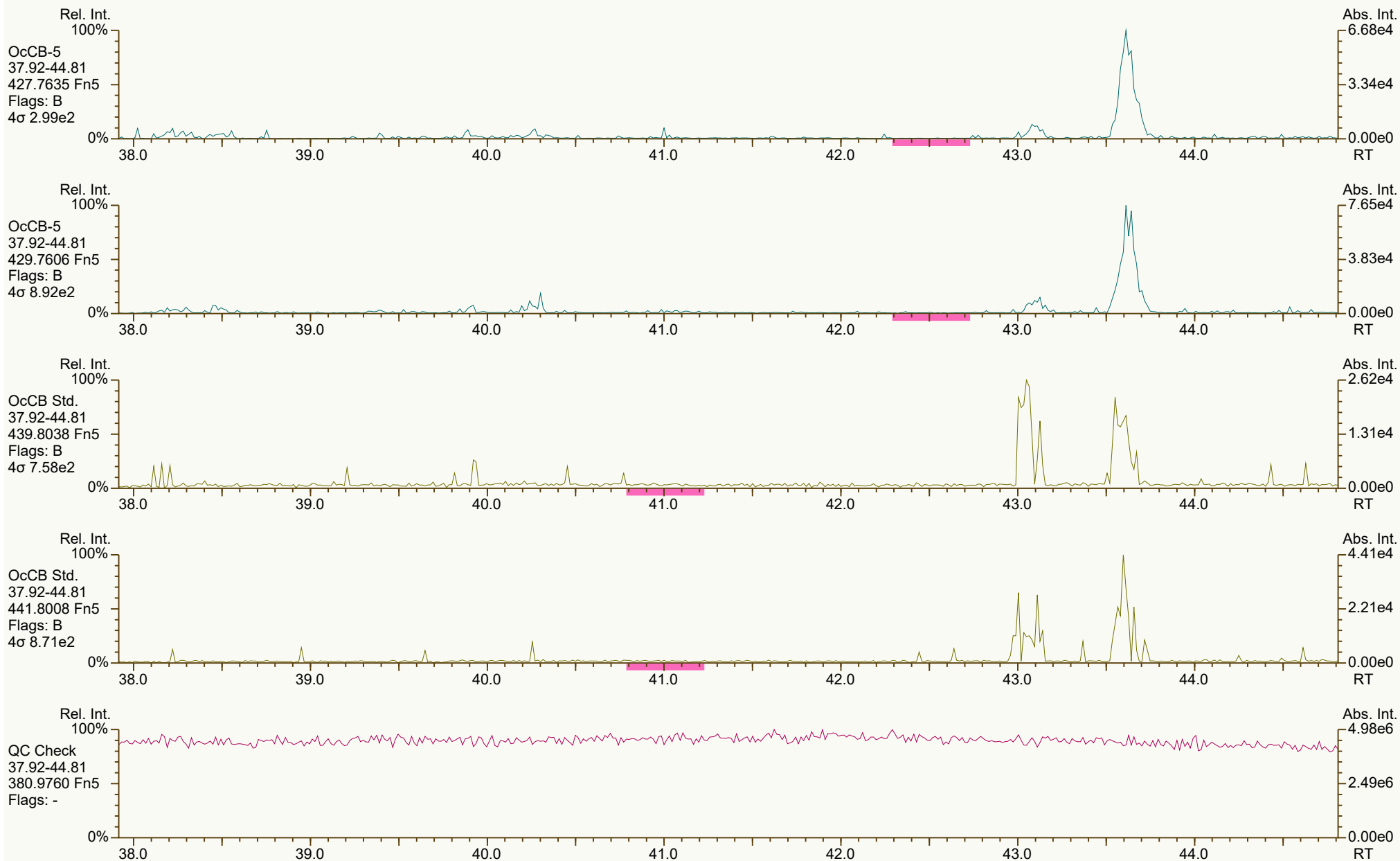
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 17 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 18 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 19 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



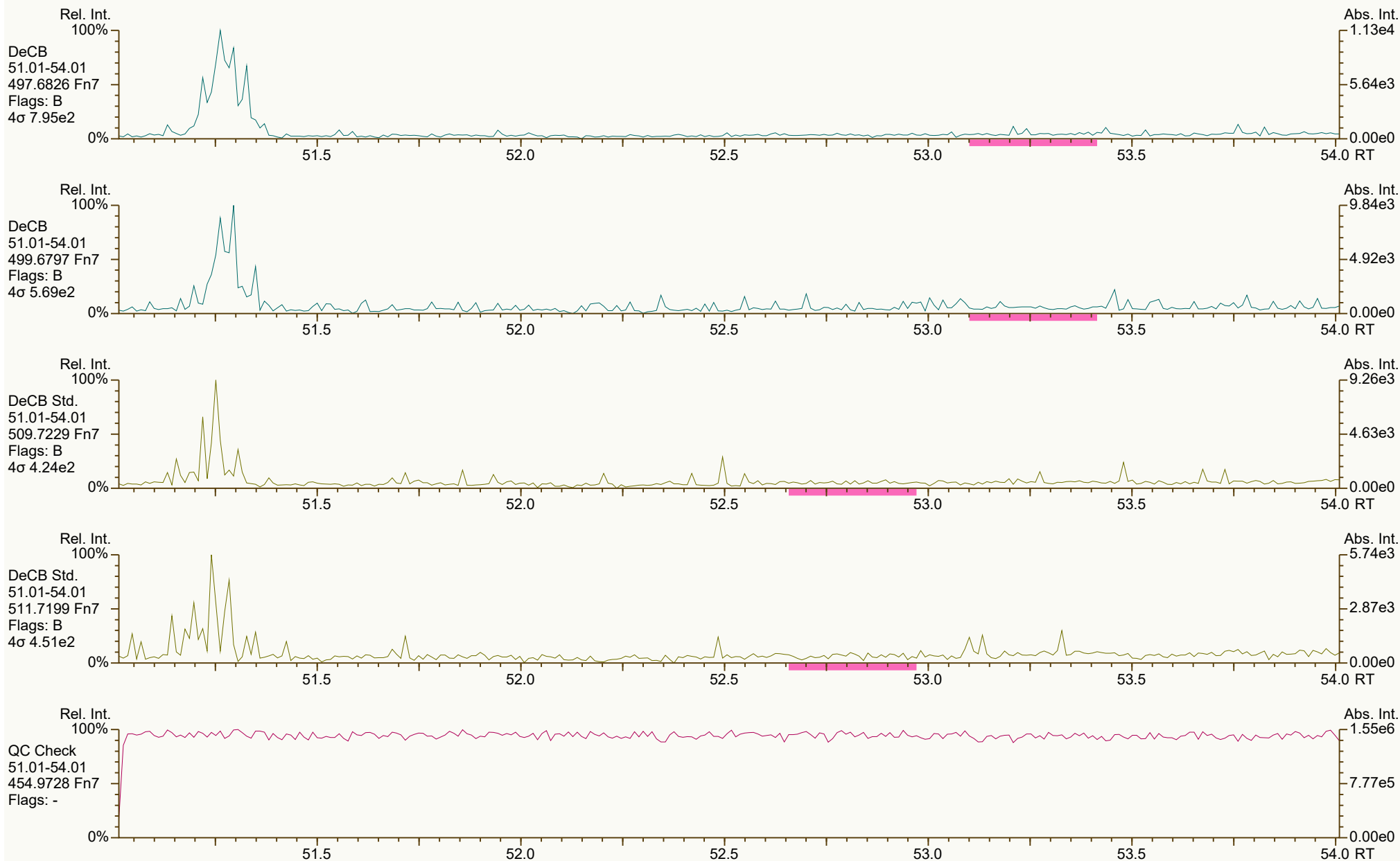
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 20 of 21

SGS ID: SB_240903_PCB_SA
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 11:51:45
User: RAB Datafile: 240903S01



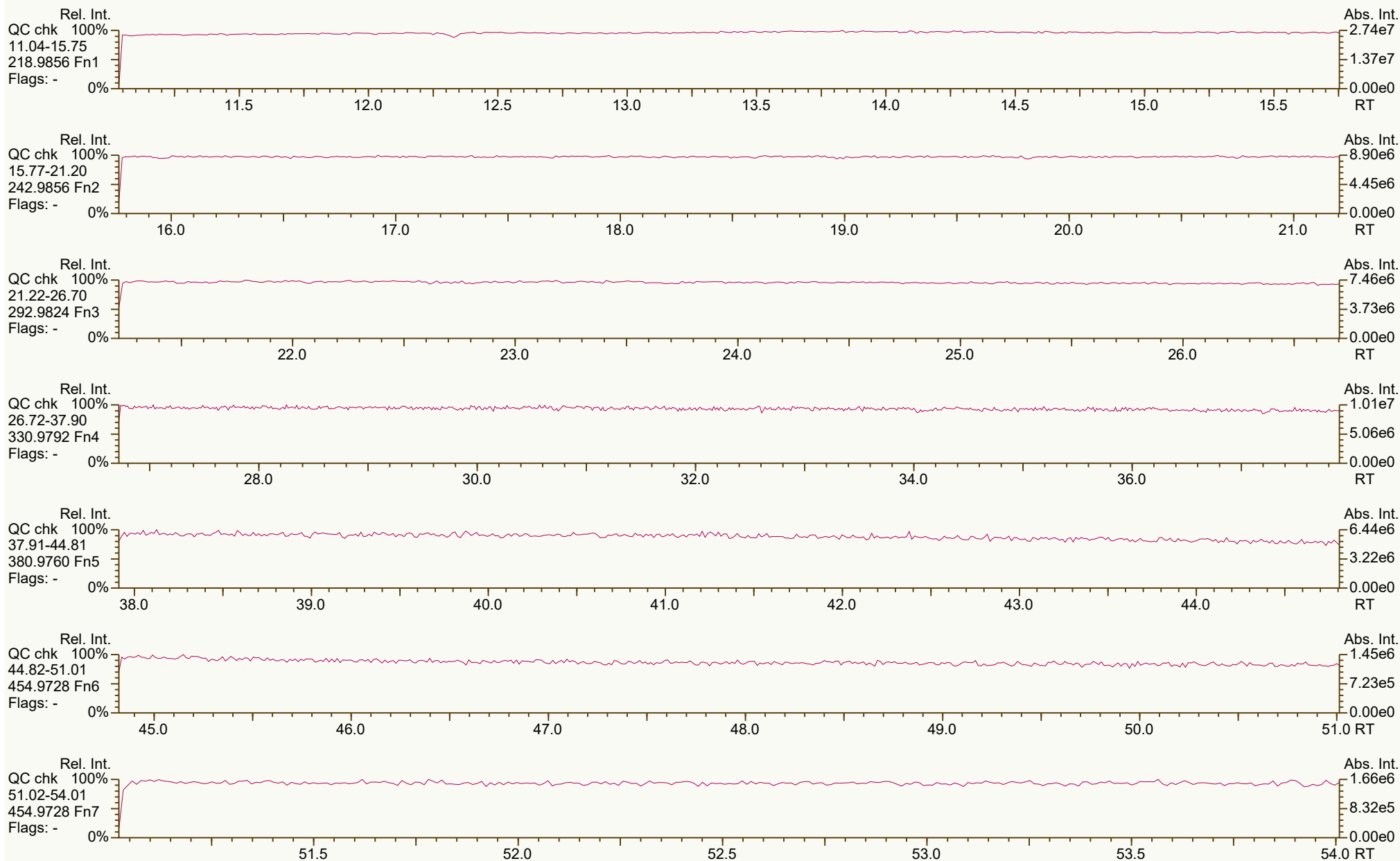
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 5432, 0967 scc: 522-558

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 11:25 Printed: 04-Sep-2024 13:04 Page 21 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX scc: 757-835

Peak annotation: Areas, Centroids
PKD: n/a Printed: 04-Sep-2024 13:07 Page 1 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\SB_240903_PCB_SC.utp_res, saved 04-Sep-2024 10:51 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 5707, 7424 scc: 757-835

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 2 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 3 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\SB_240903_PCB_SC.utp_res, saved 04-Sep-2024 10:51 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 2353, 0931 scc: 757-835

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 4 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\SB_240903_PCB_SC.utp_res, saved 04-Sep-2024 10:51 (RAB)
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 5 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



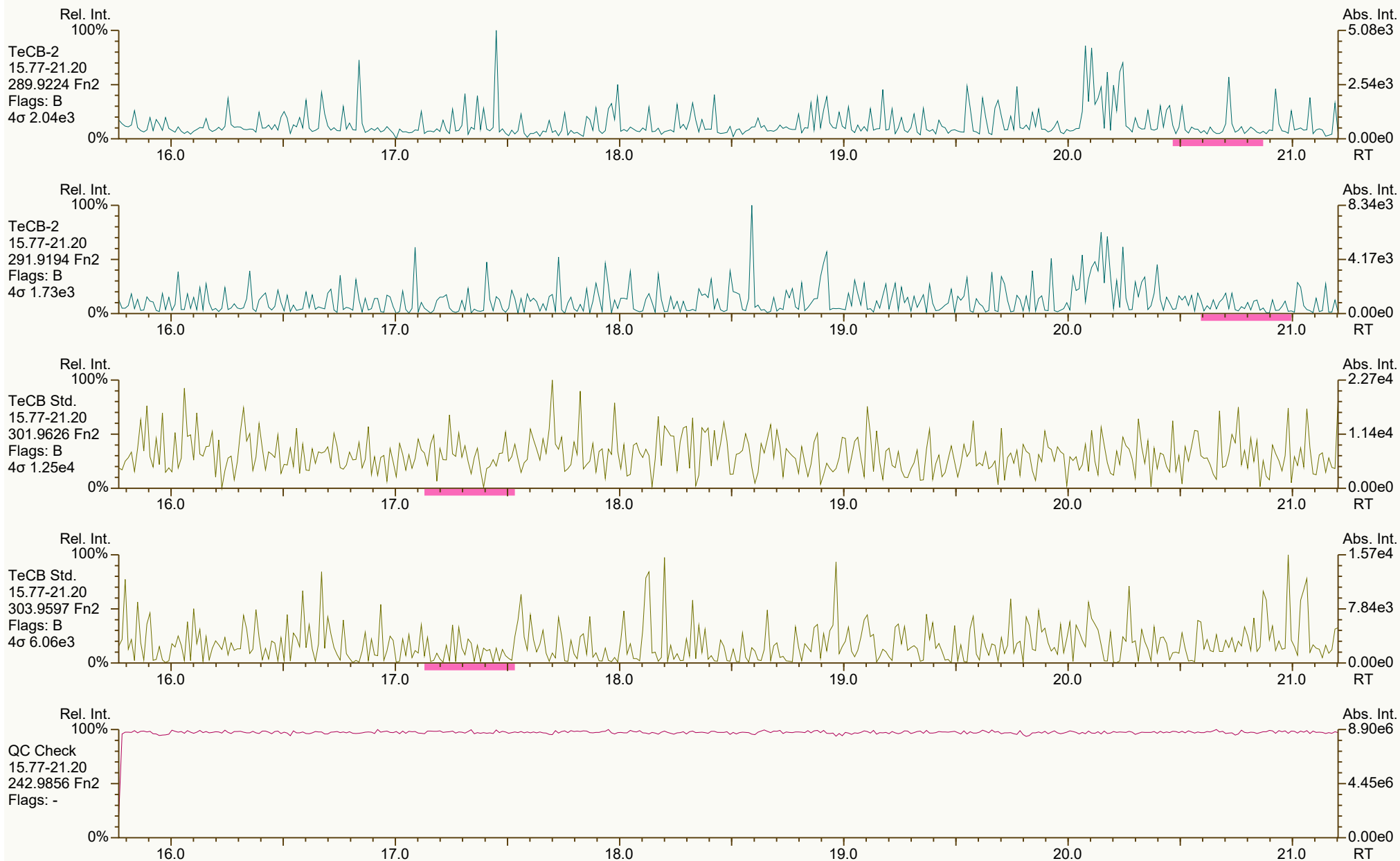
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 6 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\SB_240903_PCB_SC.utp_res, saved 04-Sep-2024 10:51 (RAB)
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 7 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



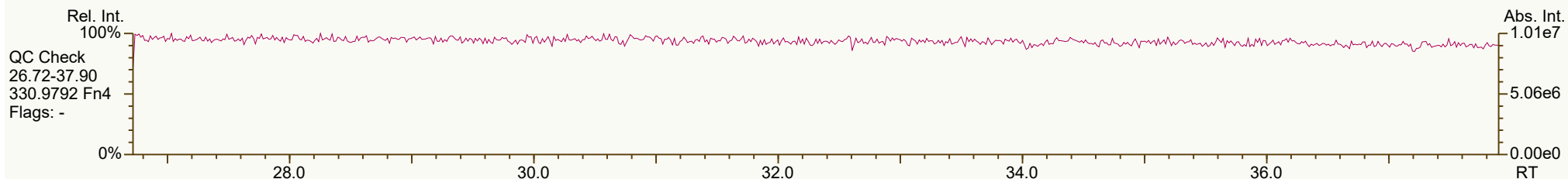
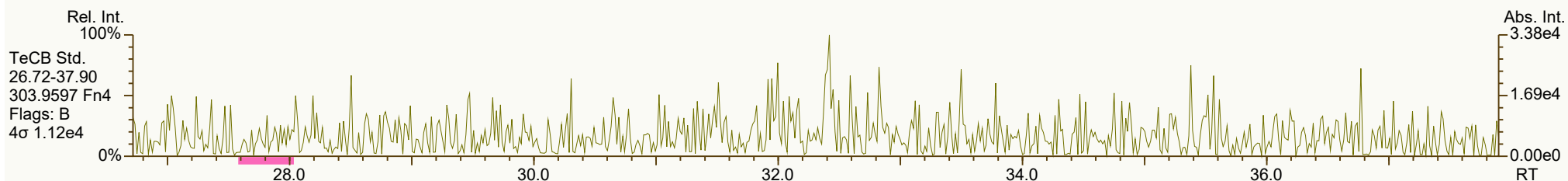
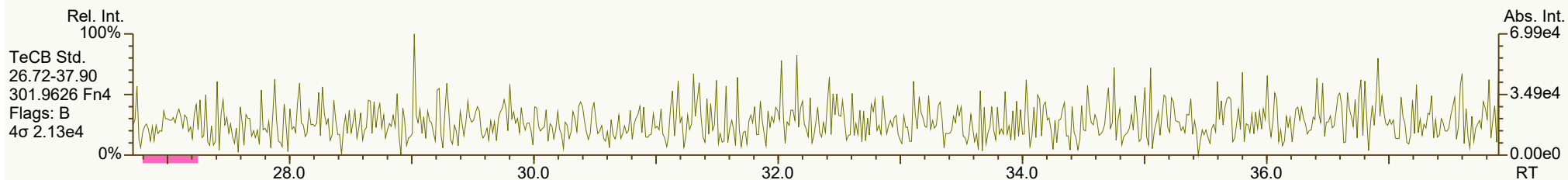
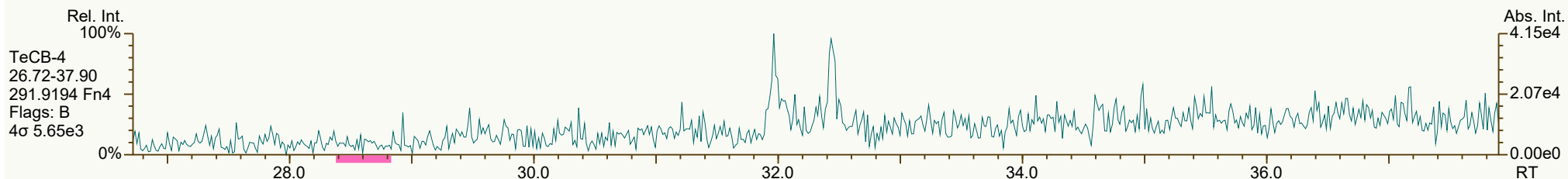
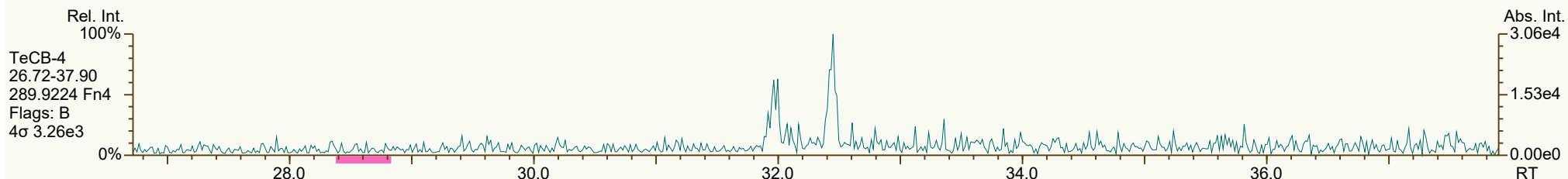
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 8 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\SB_240903_PCB_SC.utp_res, saved 04-Sep-2024 10:51 (RAB)
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 9 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\SB_240903_PCB_SC.utp_res, saved 04-Sep-2024 10:51 (RAB)
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Peak annotation: Areas, Centroids
Revised: 04-Sep-2024 10:15 (RAB) Printed: 04-Sep-2024 13:07 Page 10 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\SB_240903_PCB_SC.utp_res, saved 04-Sep-2024 10:51 (RAB)
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 11 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



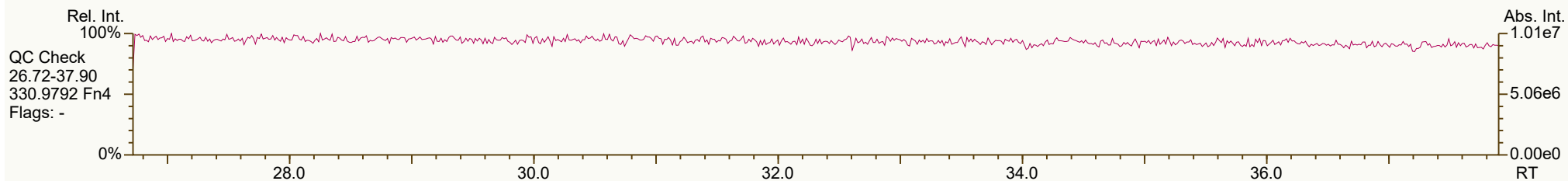
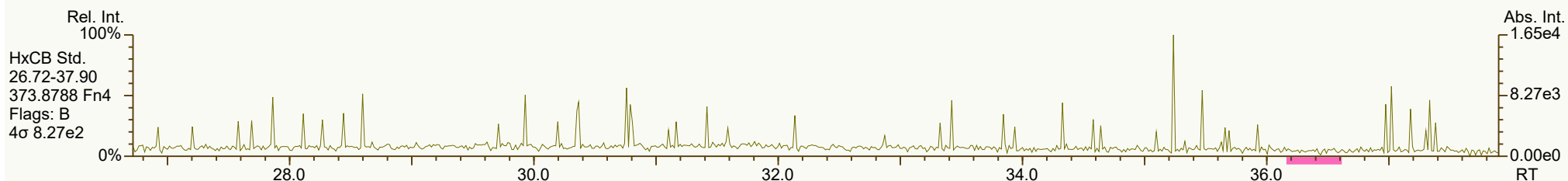
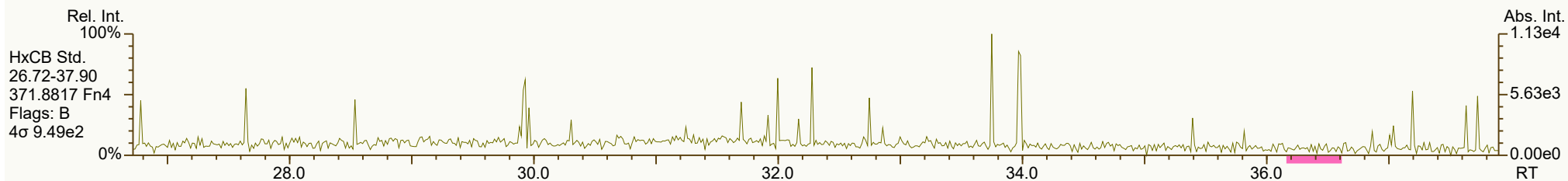
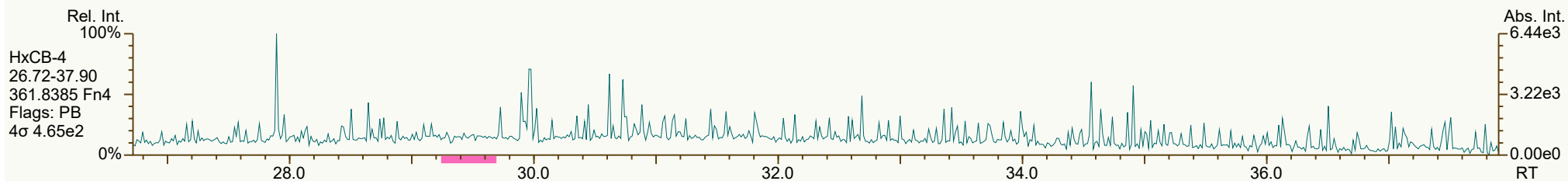
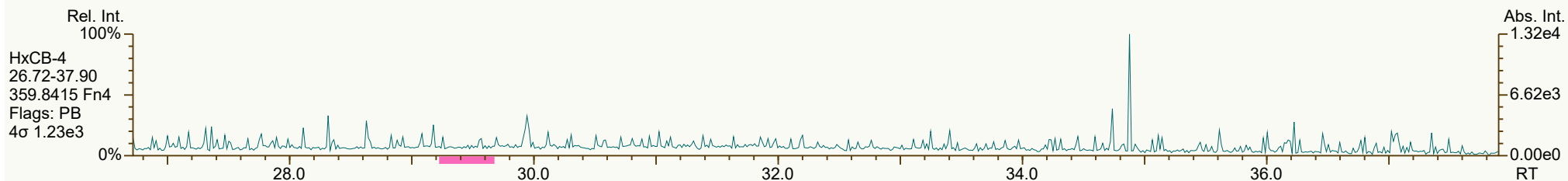
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 12 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 13 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\SB_240903_PCB_SC.utp_res, saved 04-Sep-2024 10:51 (RAB)
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 14 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 15 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\SB_240903_PCB_SC.utp_res, saved 04-Sep-2024 10:51 (RAB)
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 16 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\SB_240903_PCB_SC.utp_res, saved 04-Sep-2024 10:51 (RAB)
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 17 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
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Peak annotation: Areas, Centroids
Revised: 04-Sep-2024 10:15 (RAB) Printed: 04-Sep-2024 13:07 Page 18 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\SB_240903_PCB_SC.utp_res, saved 04-Sep-2024 10:51 (RAB)
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 19 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 18:38:36
User: RAB Datafile: 240903S07



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 20 of 21

SGS ID: SB_240903_PCB_SC
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

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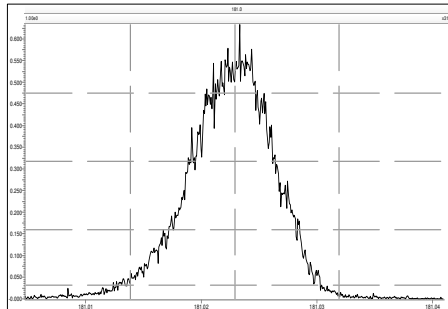


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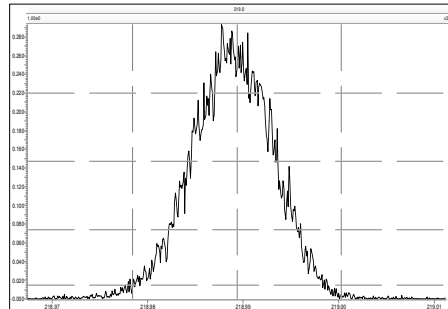
Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:15 Printed: 04-Sep-2024 13:07 Page 21 of 21

Printed: Tuesday, September 03, 2024 13:03:12 Eastern Daylight Time

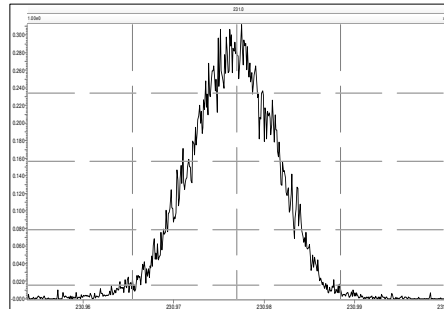
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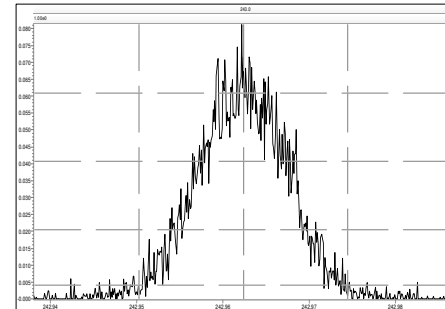
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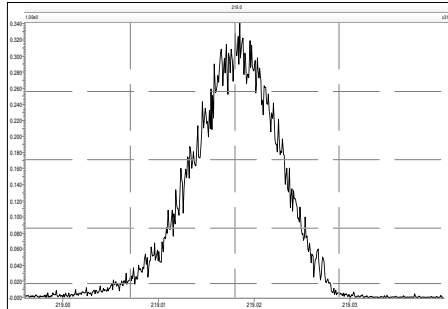
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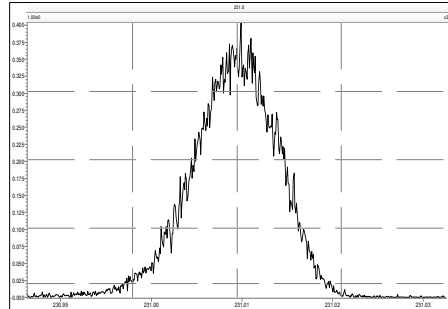
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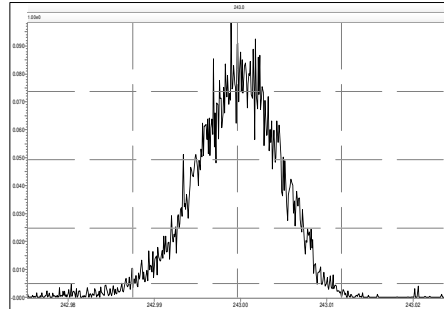
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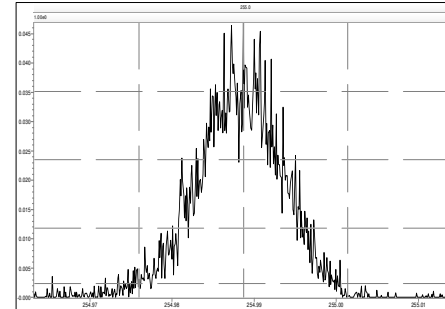
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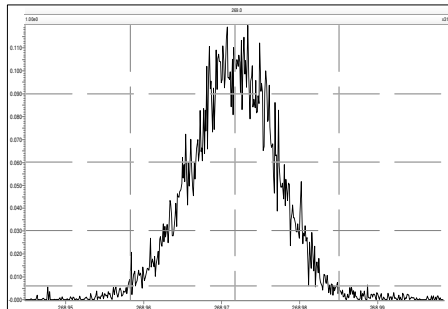
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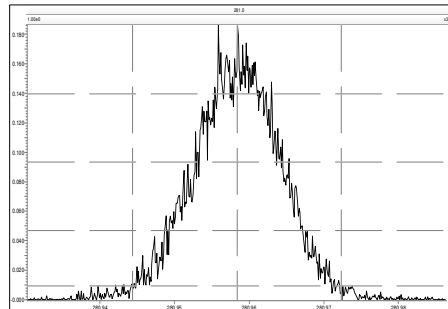
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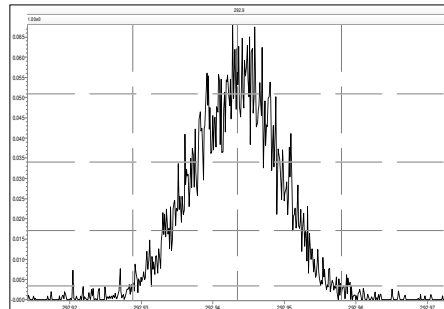
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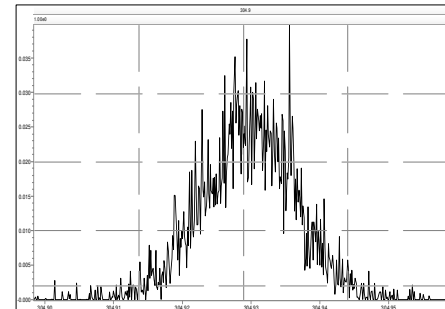
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M 292.9824 R 11218

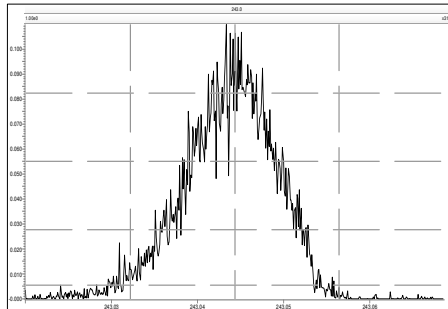


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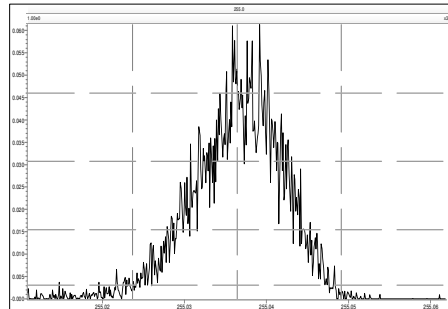


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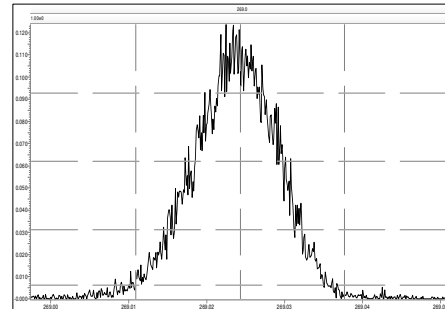
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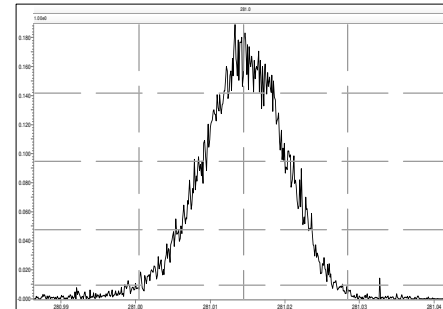
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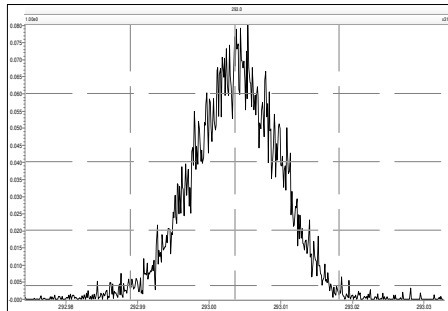
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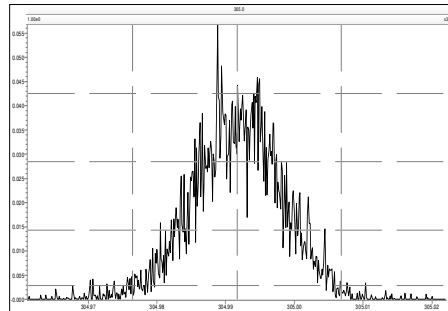
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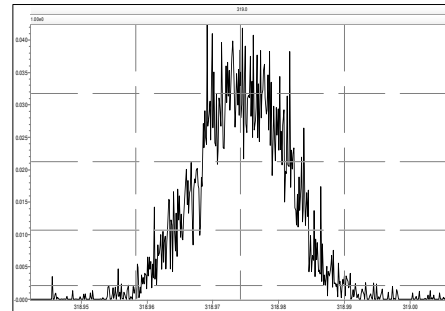
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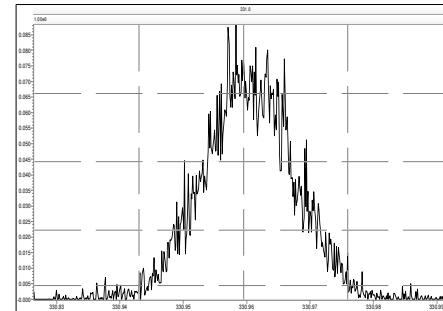
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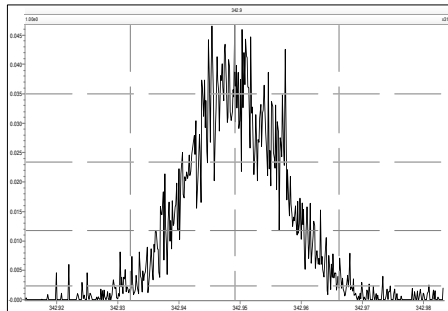
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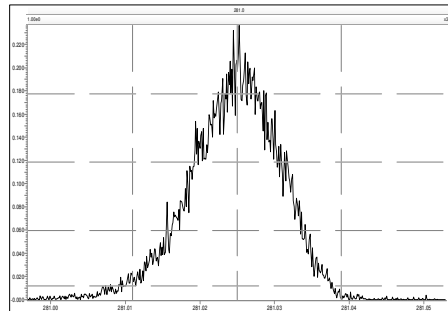
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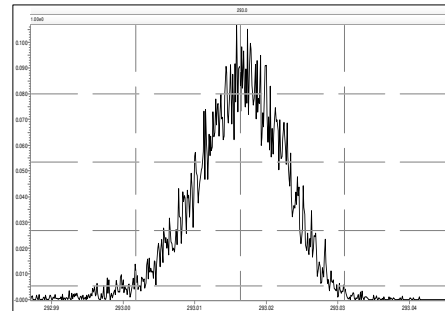
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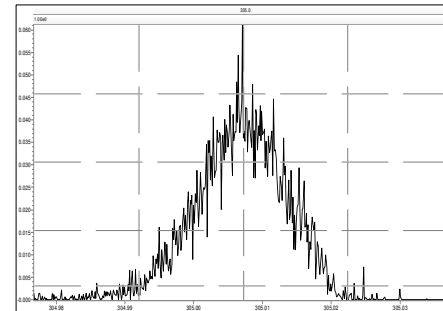
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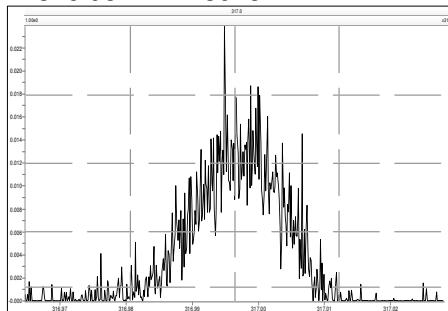


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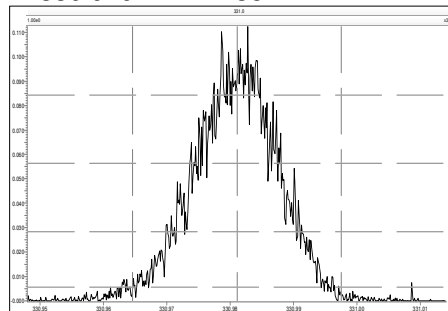


Printed: Tuesday, September 03, 2024 13:03:12 Eastern Daylight Time

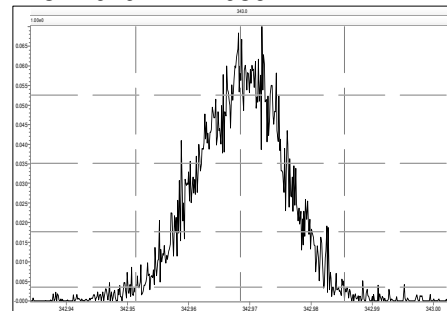
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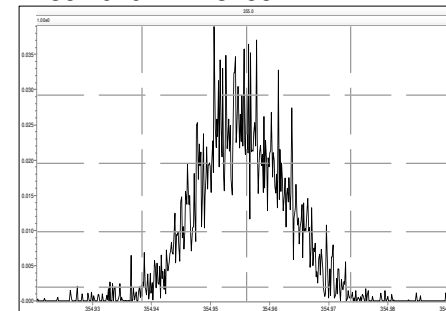
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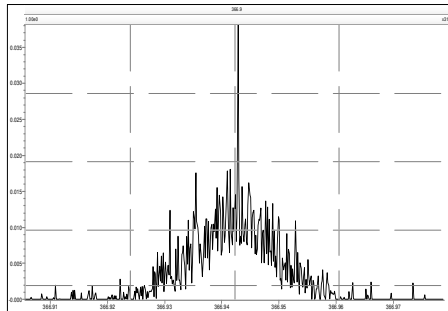
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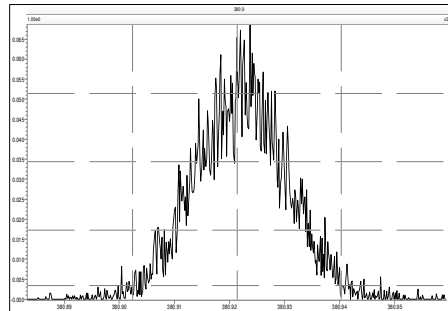
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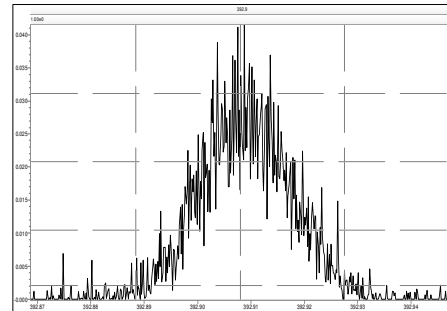
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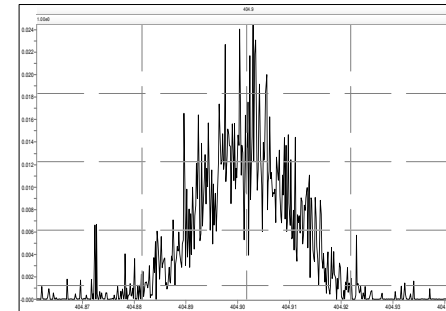
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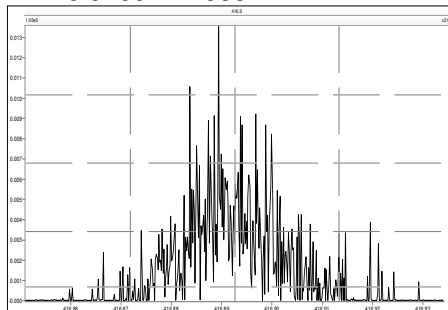
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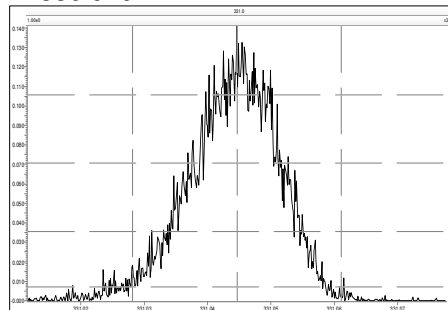
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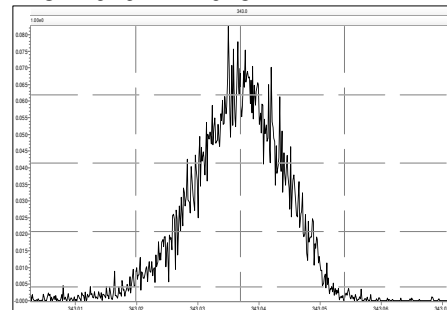
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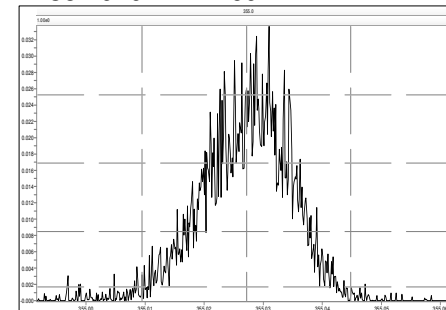
M 330.9792 R 11224



M 342.9792 R 10754



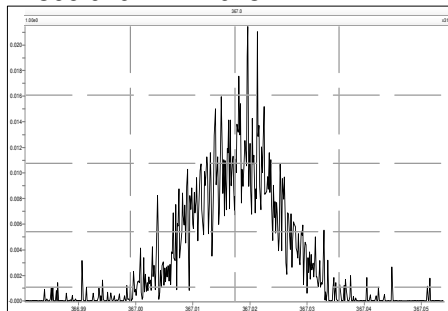
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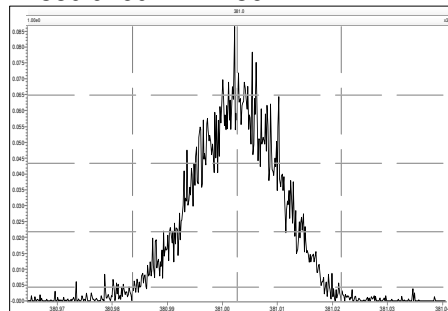
Insufficient PFK to accurately assess resolution of low intensity masses. CL 04Sep24

Printed: Tuesday, September 03, 2024 13:03:12 Eastern Daylight Time

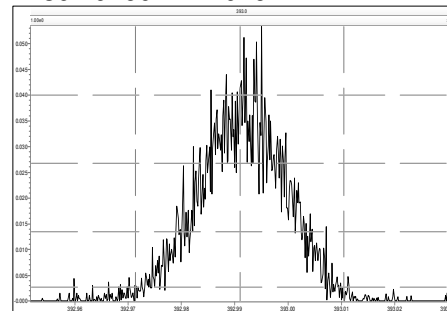
M 366.9792 R 12923



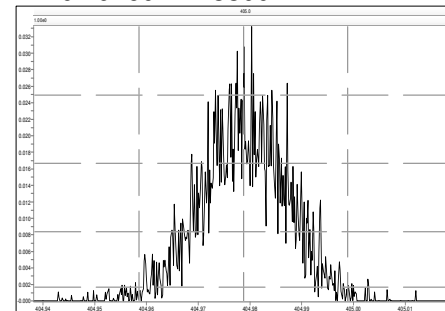
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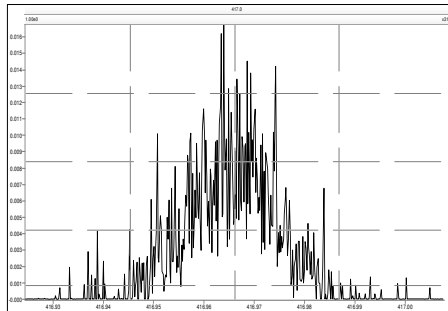
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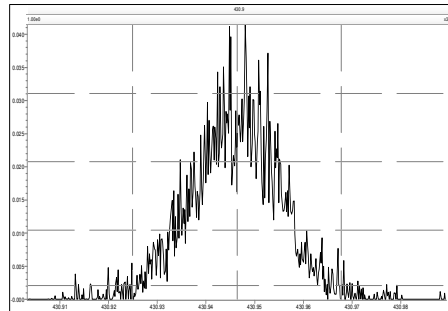
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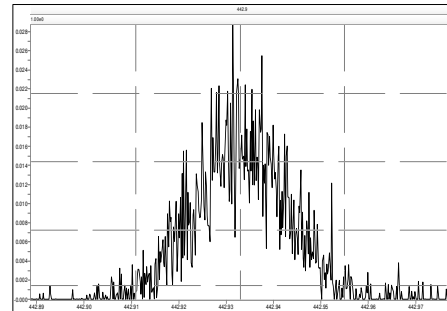
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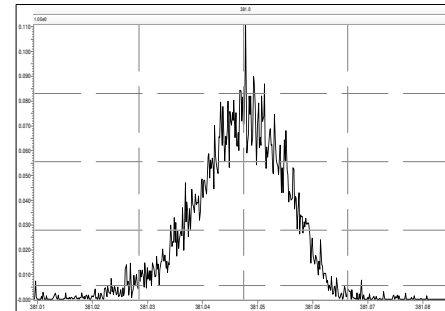
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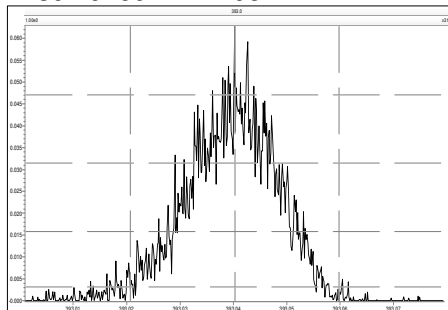
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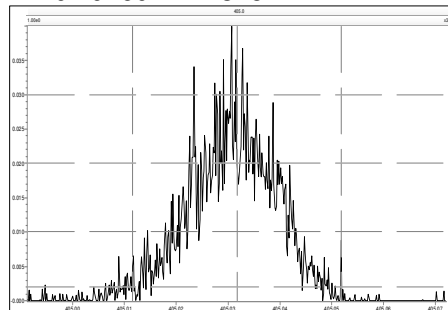
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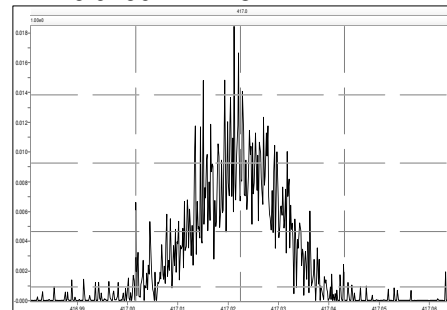
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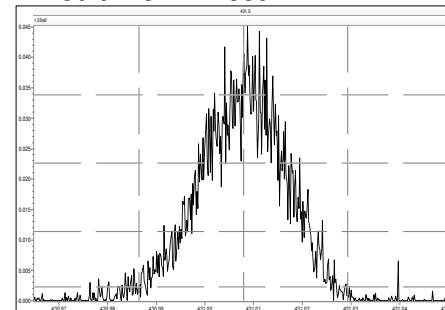
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M 416.9760 R 14282

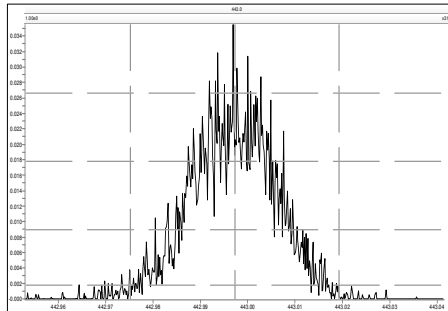


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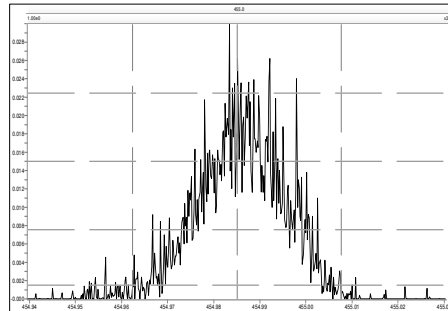


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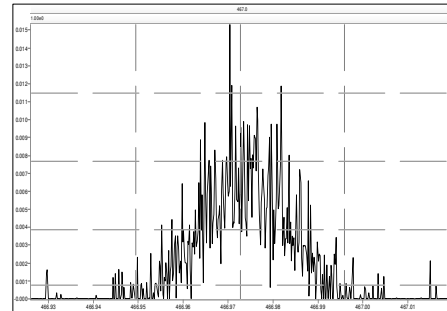
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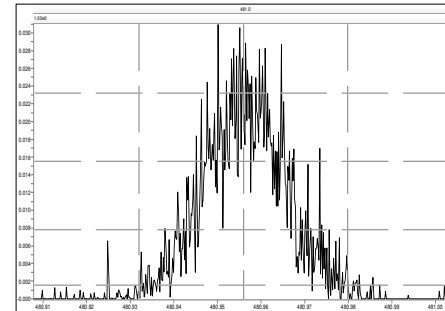
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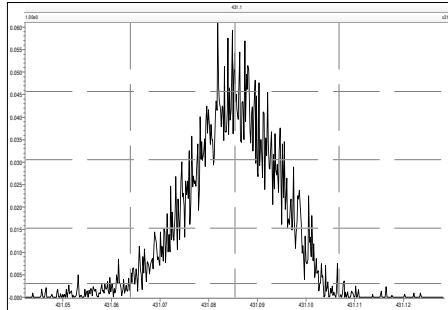
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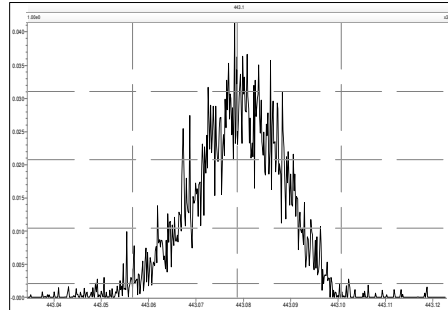
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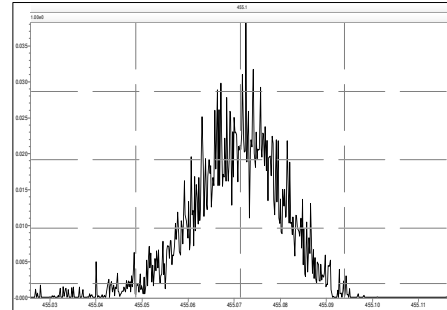
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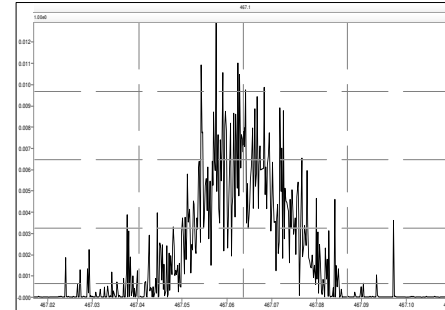
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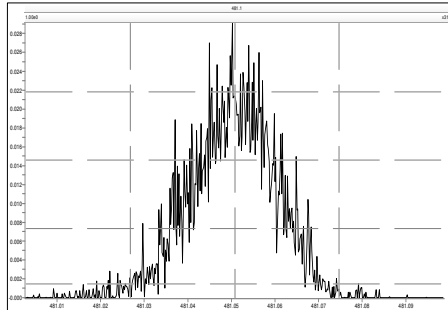
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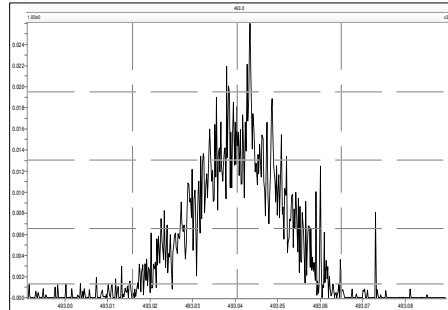
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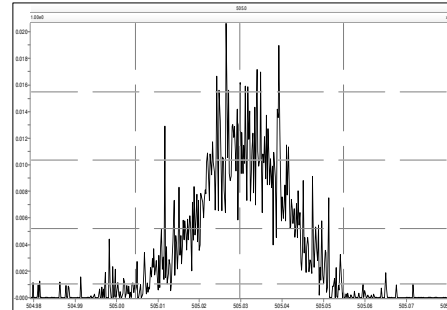
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M 492.9696 R 12723

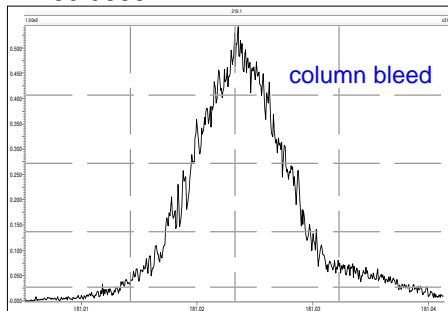


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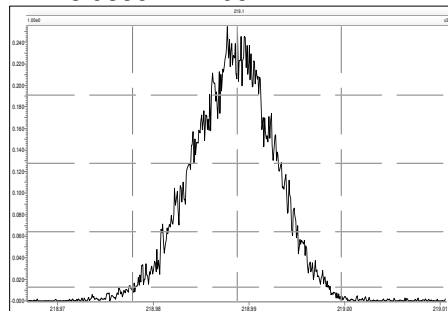


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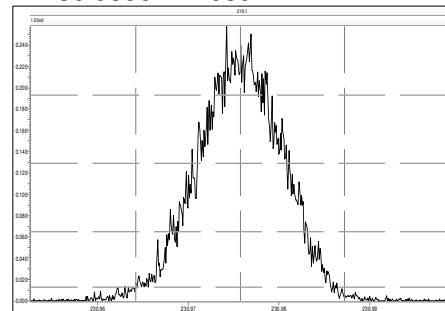
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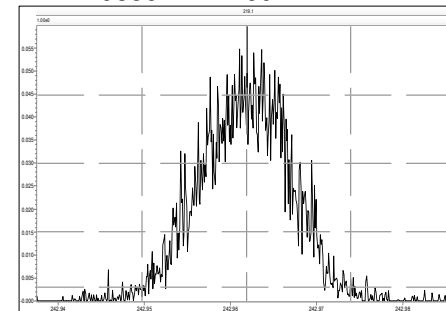
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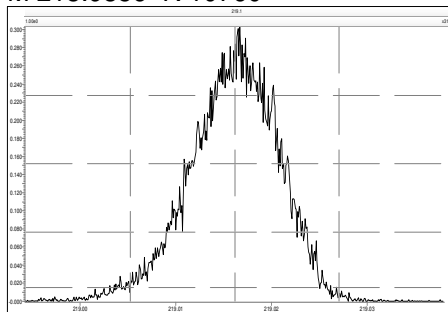
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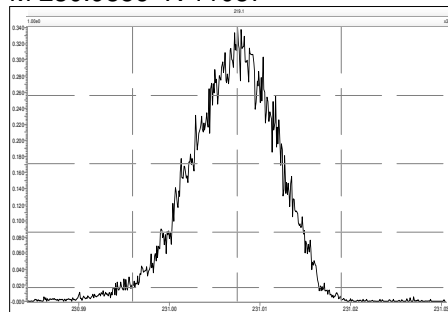
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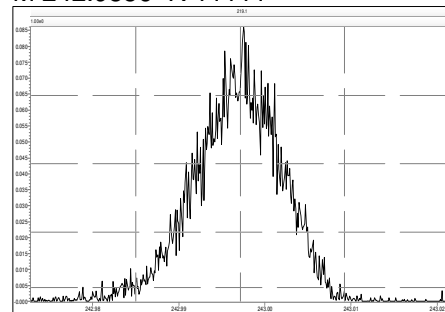
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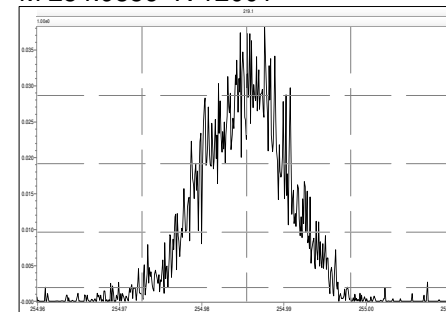
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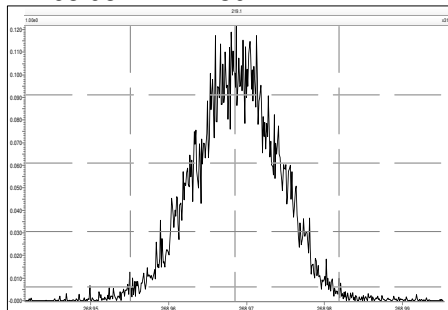
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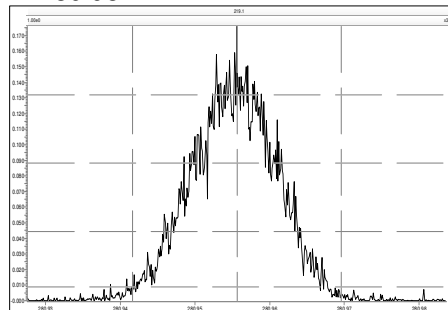
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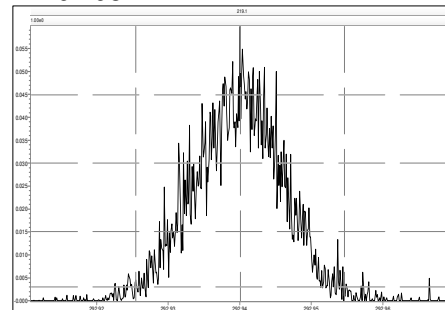
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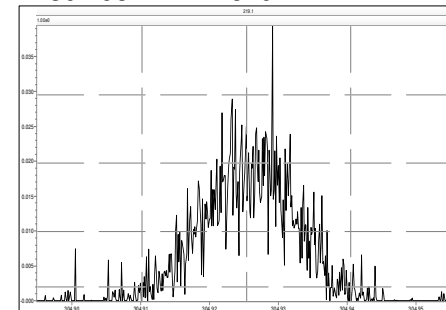
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M 292.9824 R 12117

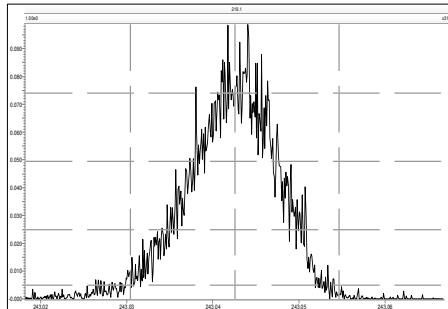


M 304.9824 R 12540

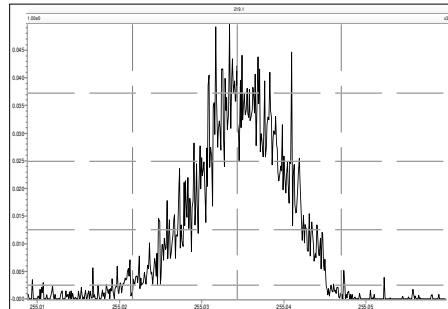


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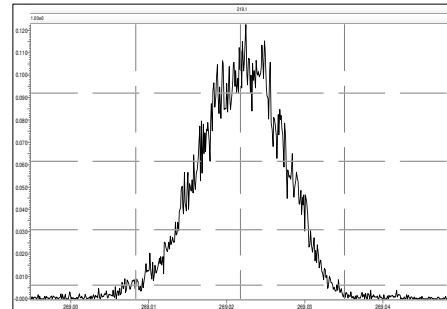
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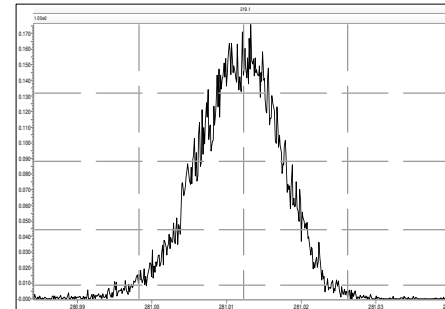
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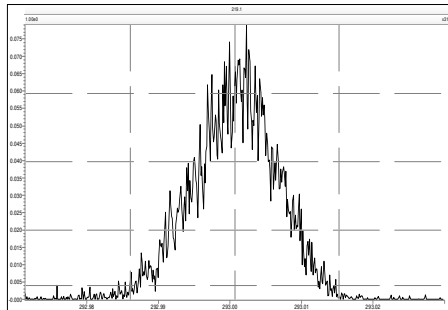
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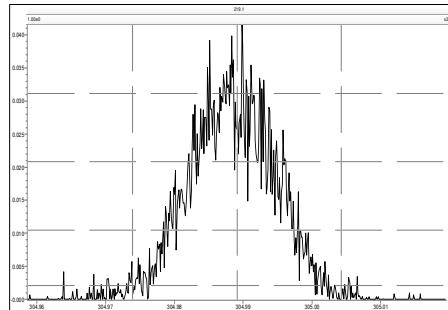
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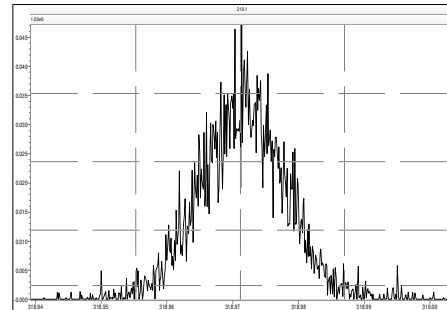
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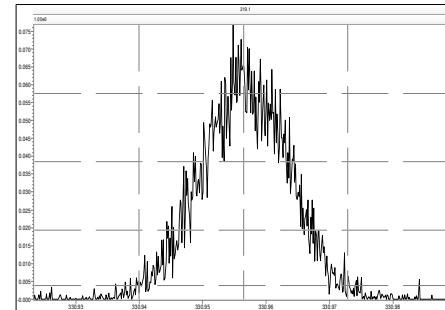
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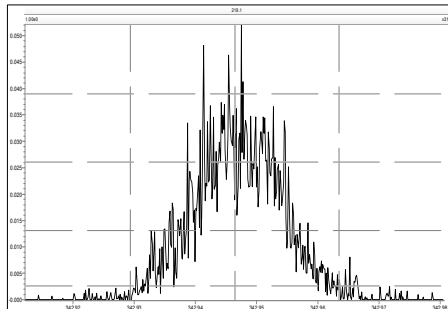
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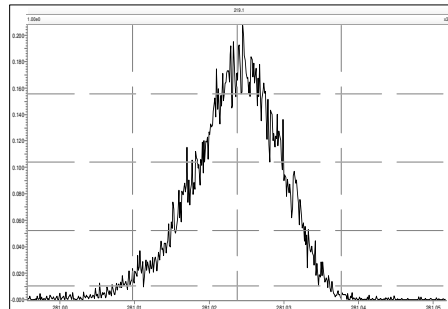
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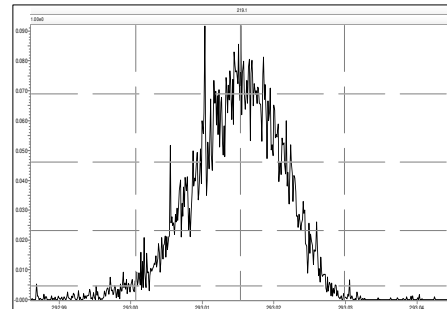
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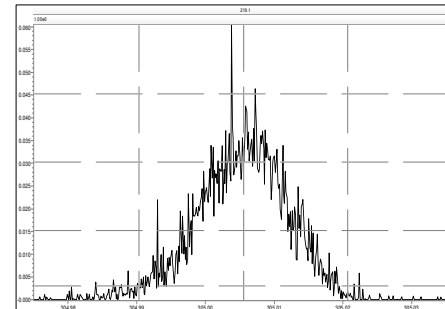
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M 292.9824 R 11454

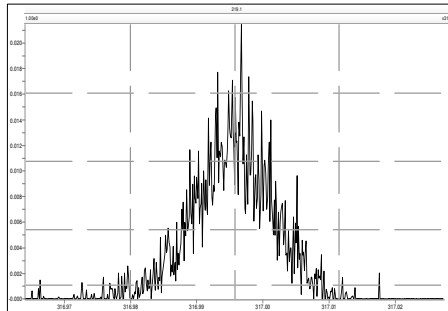


M 304.9824 R 11421

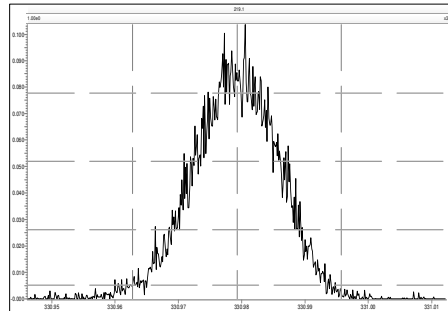


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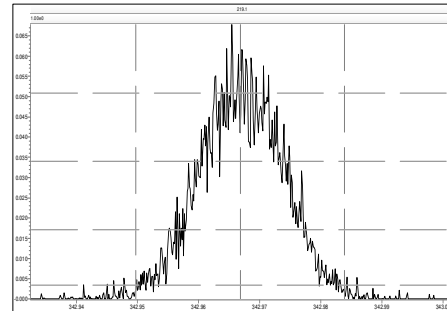
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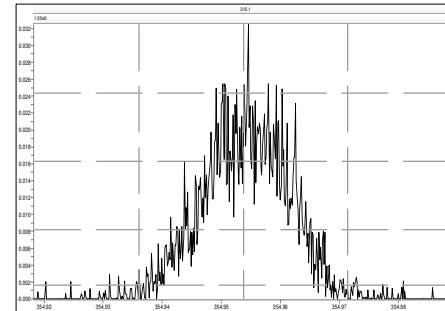
M 330.9792 R 11128



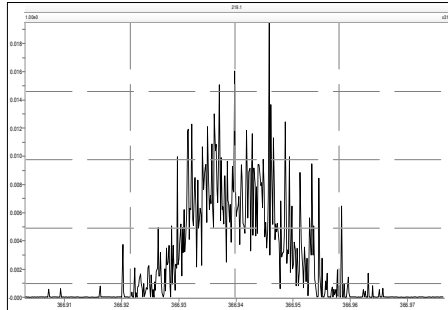
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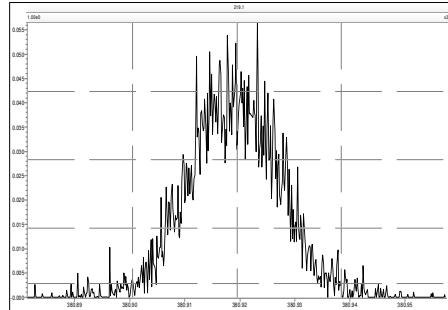
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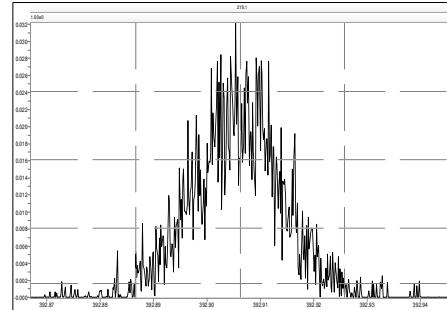
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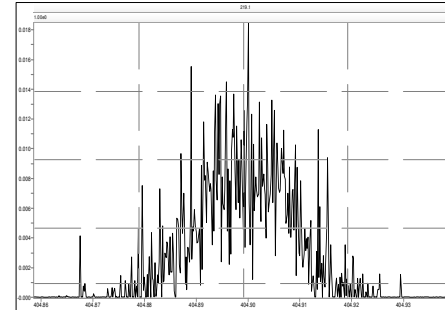
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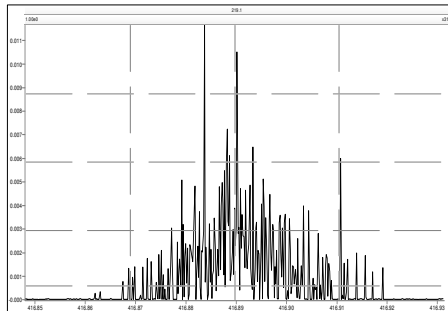
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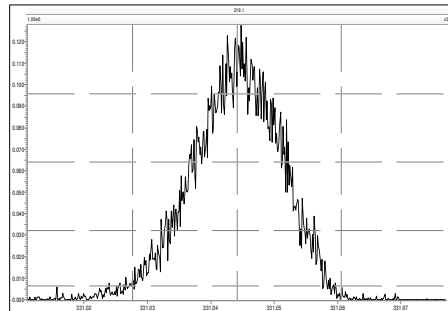
M 404.9760 R 17915



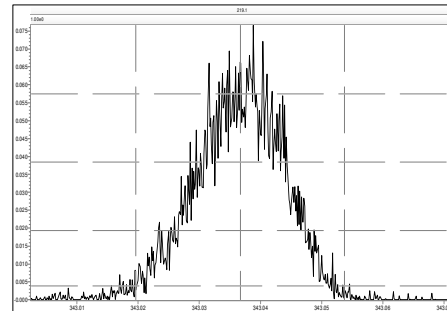
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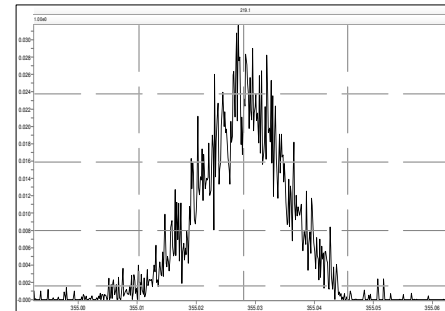
M 330.9792 R 11160



M 342.9792 R 11261



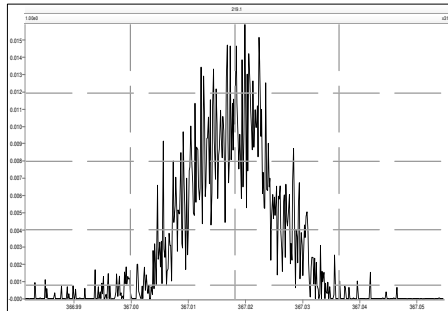
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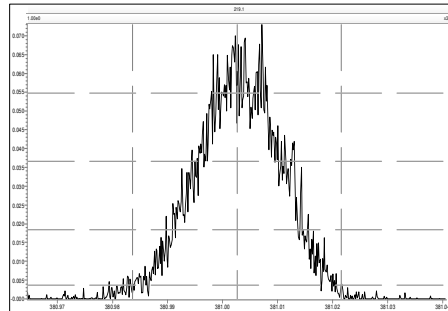
Insufficient PFK to accurately assess resolution of low intensity masses. CL 04Sep24

Printed: Tuesday, September 03, 2024 20:47:40 Eastern Daylight Time

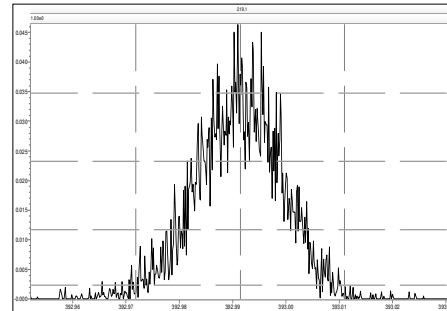
M 366.9792 R 13554



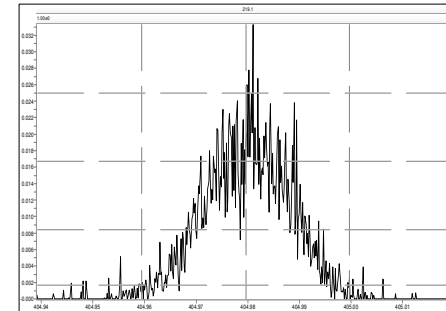
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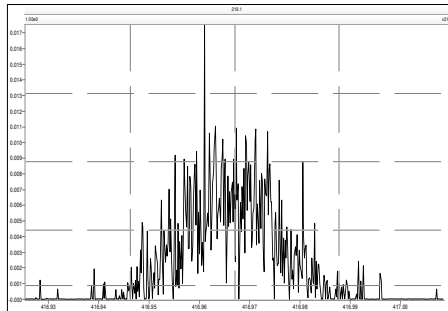
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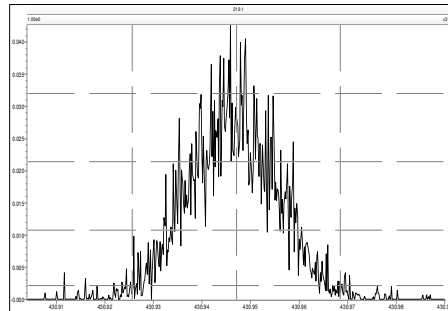
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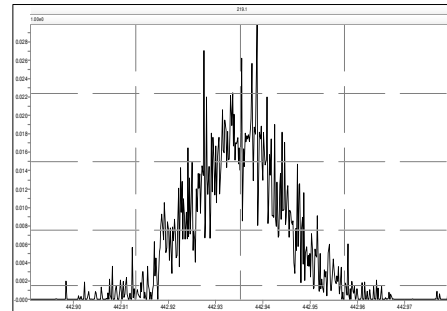
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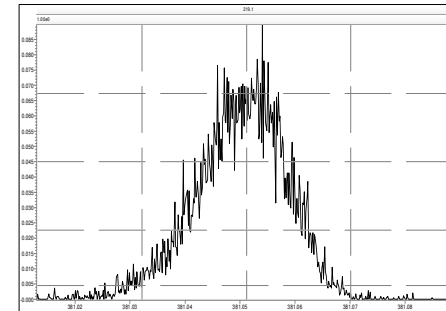
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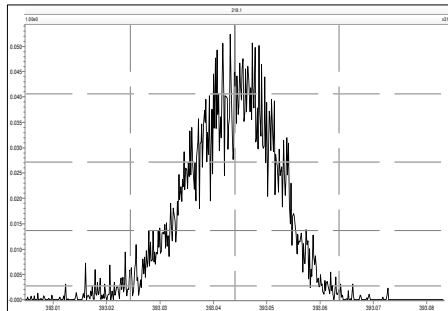
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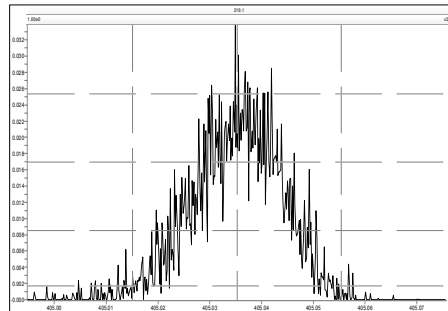
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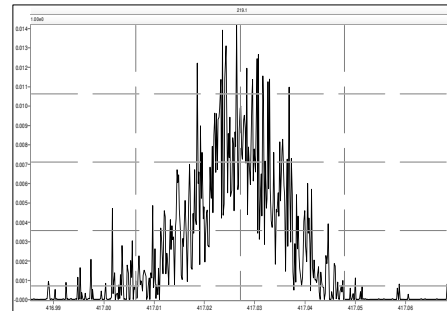
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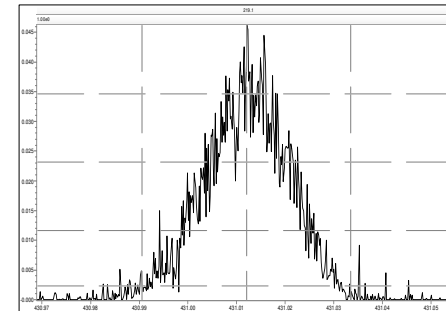
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M 416.9760 R 12987

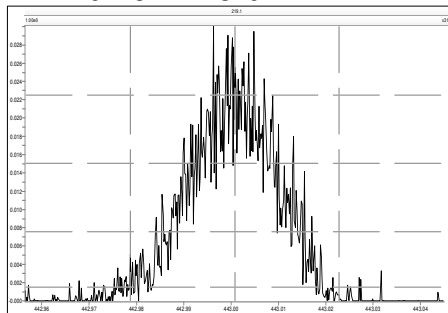


M 430.9728 R 12412

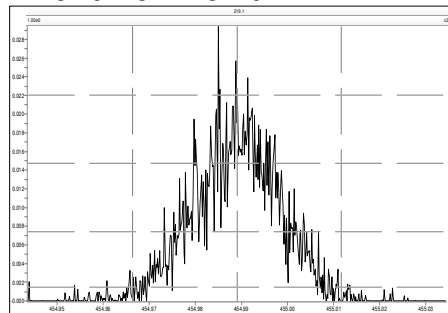


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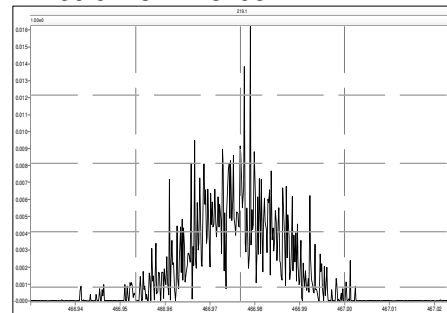
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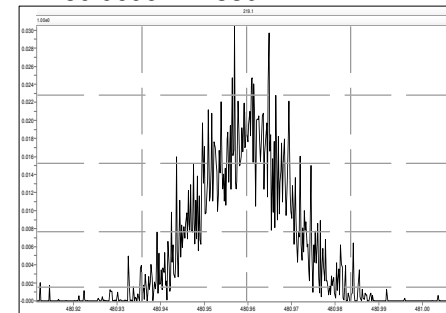
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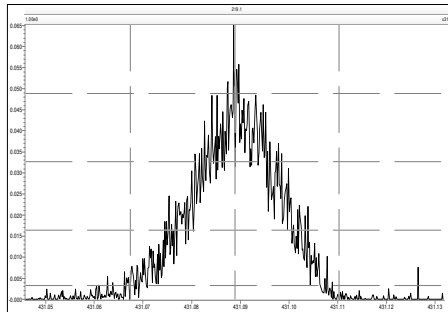
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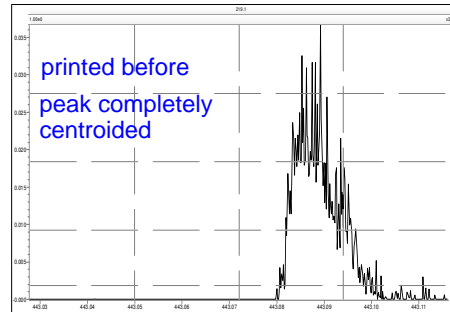
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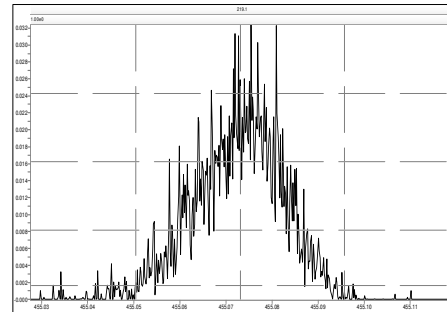
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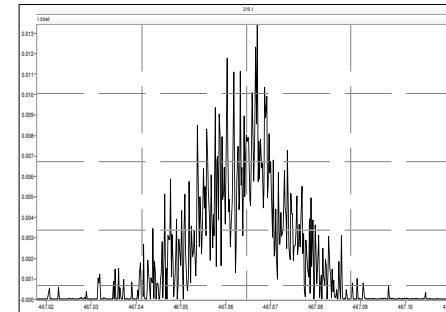
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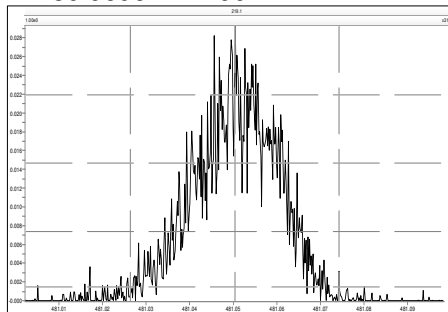
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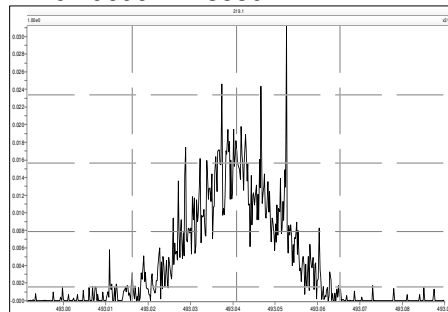
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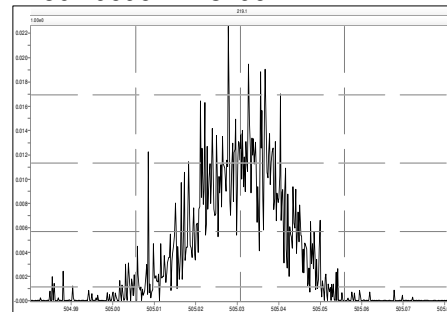
M 480.9696 R 12907



M 492.9696 R 13580



M 504.9696 R 13196



| Instrument: MM4 (AutoSpec-Ultima) | | | | MS Experiment: pcb-2016 | | | GC Program: pcb90_FI | | | |
|-----------------------------------|-----------|-------|-------------------|-------------------------|--|----------------|----------------------|-------------|----------|--|
| # | Datafile | Vial# | Lab ID | Wt/Vol | Client/Sample ID | Analyst(s) | Checkcode | Acq Date | Acq Time | |
| 0 | 240903S11 | 2 | SB_240903_PCB_SF | 1.00 | Nonane | RAB | 550-926 | 03-Sep-2024 | 22:53:15 | |
| 13 | 240903S13 | 3 | CS3_240903_PCB_SB | 1.00 | ICAL SIL 27-92-2 ICV - spiked with secondary source | RAB | 346-361 | 04-Sep-2024 | 00:58:42 | |
| 14 | 240903S14 | 2 | SB_240903_PCB_SG | 1.00 | Nonane | CL 04Sep24 RAB | 641-261 | 04-Sep-2024 | 01:56:12 | |

REVIEWED
Richard Ballard , 9/4/2024, 3:16:30 PM

PCB-126 windows not set correctly PCB 126 partially clipped
PCB -175 not in window - PD not required single point not in calibration

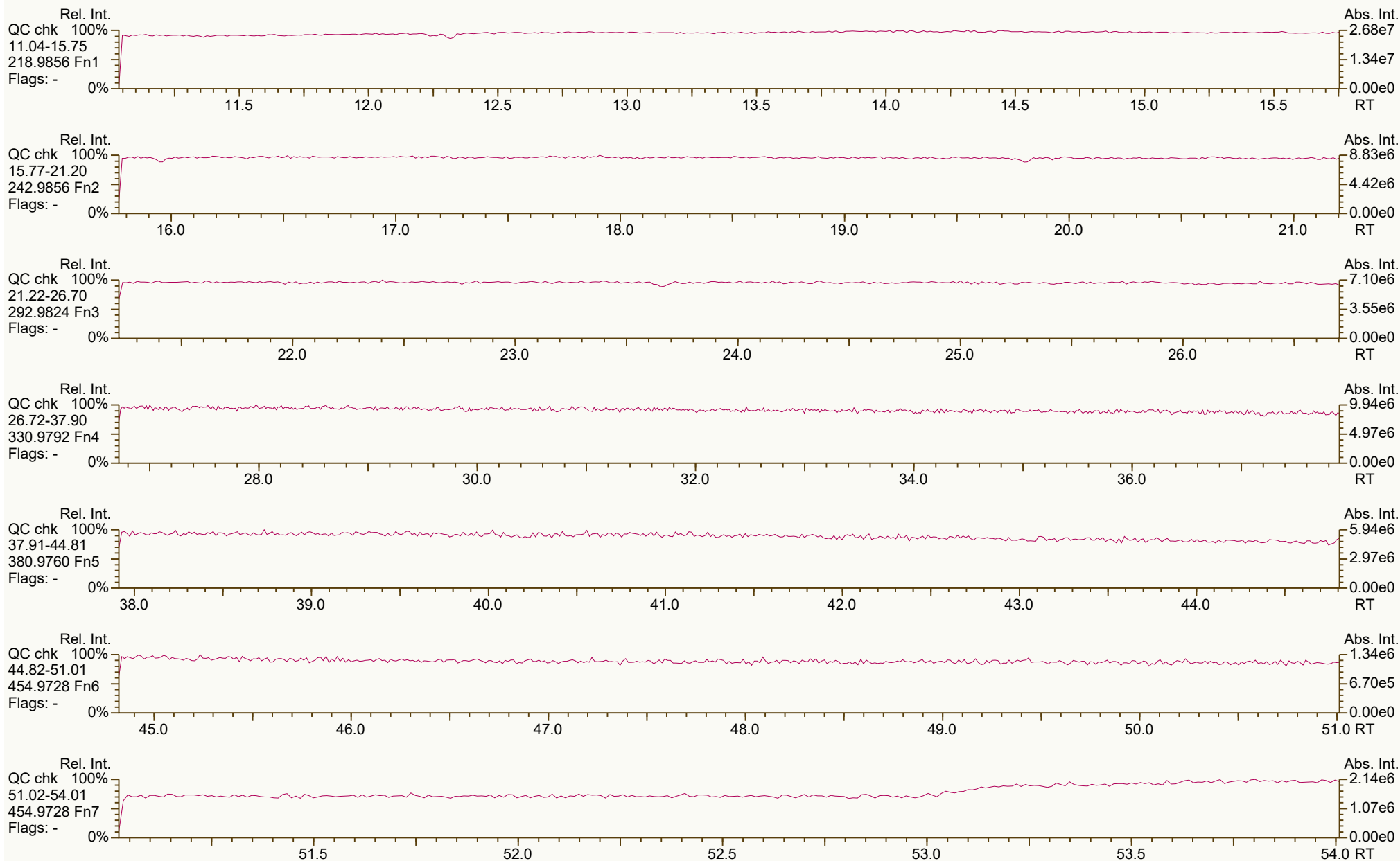
| PCB QC Summary | | SGS North America | | | Printed: 4 Sep 2024 15:08 | | |
|-------------------------|-------------------|-------------------|------------------------------------|------|---------------------------|-----------|--|
| Lab ID: | CS3_240903_PCB_SB | | ICV - spiked with secondary source | | | | |
| Acquired: | 04-SEP-2024 00:58 | | CL 04Sep24 | | | | |
| Datafile: | 240903S13 | | ICAL: MM4-PCB_03SEP2024 | | | | |
| Name | RT | Response | RA | ICAL | RRF | Deviation | |
| PCB-77 33'44'-TeCB | 32.41 | 5.76E+07 | 0.81 Y | 1.45 | 1.29 | -10.7% | |
| PCB-81 344'5'-TeCB | 31.93 | 5.28E+07 | 0.80 Y | 1.46 | 1.15 | -21.2% | |
| PCB-105 233'44'-PeCB | 35.38 | 3.73E+07 | 0.65 Y | 1.18 | 1.09 | -7.8% | |
| PCB-114 2344'5'-PeCB | 34.83 | 3.76E+07 | 0.64 Y | 1.14 | 1.08 | -5.7% | |
| PCB-118 23'44'5'-PeCB | 34.37 | 3.73E+07 | 0.64 Y | 1.18 | 1.04 | -11.7% | |
| PCB-123 23'44'5'-PeCB | 34.09 | 3.65E+07 | 0.64 Y | 1.19 | 1.10 | -7.3% | |
| PCB-126 33'44'5'-PeCB | 37.99 | 5.33E+07 | 0.64 Y | 1.35 | 1.33 | -1.5% | |
| PCB-156/157 ...-HxCB | 40.53 | 6.73E+07 | 1.25 Y | 1.23 | 1.08 | -12.1% | |
| PCB-167 23'44'55'-HxCB | 39.54 | 3.79E+07 | 1.25 Y | 1.22 | 1.13 | -7.0% | |
| PCB-169 33'44'55'-HxCB | 43.24 | 3.81E+07 | 1.25 Y | 1.23 | 1.33 | 7.7% | |
| PCB-189 233'44'55'-HpCB | 45.36 | 3.65E+07 | 1.07 Y | 1.31 | 1.13 | -13.8% | |
| PCB-209 DeCB | 51.19 | 1.70E+07 | 1.16 Y | 1.08 | 0.97 | -9.5% | |
| | | | | | | | |
| ES PCB-1 | 11.62 | 1.24E+08 | 3.17 Y | 1.09 | 0.97 | -10.9% | |
| ES PCB-3 | 13.87 | 1.26E+08 | 3.14 Y | 1.06 | 0.99 | -7.1% | |
| ES PCB-4 | 14.12 | 6.80E+07 | 1.54 Y | 0.52 | 0.53 | 2.3% | |
| ES PCB-15 | 19.79 | 1.35E+08 | 1.55 Y | 1.11 | 1.05 | -5.7% | |
| ES PCB-19 | 17.18 | 6.54E+07 | 1.04 Y | 0.54 | 0.51 | -5.5% | |
| ES PCB-37 | 26.08 | 9.87E+07 | 1.01 Y | 1.71 | 1.60 | -5.9% | |
| ES PCB-54 | 20.07 | 4.68E+07 | 0.81 Y | 0.78 | 0.76 | -2.1% | |
| ES PCB-77 | 32.39 | 8.90E+07 | 0.68 Y | 1.53 | 1.45 | -5.1% | |
| ES PCB-81 | 31.91 | 9.18E+07 | 0.70 Y | 1.55 | 1.49 | -3.9% | |
| ES PCB-104 | 25.00 | 4.08E+07 | 1.53 Y | 0.74 | 0.74 | -1.0% | |
| ES PCB-105 | 35.36 | 6.86E+07 | 1.49 Y | 1.31 | 1.24 | -5.5% | |
| ES PCB-114 | 34.81 | 6.97E+07 | 1.54 Y | 1.34 | 1.26 | -6.5% | |
| ES PCB-118 | 34.35 | 7.14E+07 | 1.50 Y | 1.35 | 1.29 | -4.9% | |
| ES PCB-123 | 34.07 | 6.62E+07 | 1.51 Y | 1.29 | 1.19 | -7.5% | |
| ES PCB-126 | 37.97 | 8.00E+07 | 1.43 Y | 1.59 | 1.44 | -9.6% | |
| ES PCB-153 | 35.92 | 4.49E+07 | 1.17 Y | 1.10 | 1.12 | 1.7% | |
| ES PCB-155 | 29.91 | 5.58E+07 | 1.18 Y | 1.38 | 1.39 | 1.1% | |
| ES PCB-156/157 | 40.51 | 1.24E+08 | 1.11 Y | 1.62 | 1.55 | -4.3% | |
| ES PCB-167 | 39.52 | 6.70E+07 | 1.10 Y | 1.70 | 1.67 | -1.8% | |
| ES PCB-169 | 43.22 | 5.74E+07 | 1.09 Y | 1.55 | 1.43 | -8.0% | |
| ES PCB-170 | 42.73 | 3.98E+07 | 0.97 Y | 1.06 | 1.04 | -2.1% | |
| ES PCB-180 | 41.66 | 4.86E+07 | 0.98 Y | 1.30 | 1.26 | -2.9% | |
| ES PCB-188 | 34.78 | 2.55E+07 | 1.03 Y | 0.63 | 0.64 | 1.7% | |
| ES PCB-189 | 45.34 | 6.49E+07 | 0.95 Y | 1.71 | 1.69 | -1.3% | |
| ES PCB-202 | 39.31 | 3.94E+07 | 0.89 Y | 0.96 | 0.98 | 2.6% | |
| ES PCB-205 | 47.58 | 4.66E+07 | 0.88 Y | 1.23 | 1.21 | -1.8% | |
| ES PCB-206 | 49.32 | 3.10E+07 | 0.77 Y | 0.84 | 0.81 | -4.2% | |
| ES PCB-208 | 44.93 | 4.66E+07 | 0.79 Y | 1.25 | 1.21 | -3.3% | |
| ES PCB-209 | 51.16 | 3.50E+07 | 1.16 Y | 0.94 | 0.91 | -3.4% | |

| PCB QC Summary | | SGS North America | | | Printed: 4 Sep 2024 15:08 | | |
|----------------------------|--|-------------------|-----------------------------------|------|---------------------------|-----------|--|
| Lab ID: | CS3_240903_PCB_SB ICV - spiked with secondary source | | | | | | |
| Acquired: | 04-SEP-2024 00:58 | | CL 04Sep24ICAL: MM4-PCB_03SEP2024 | | | | |
| Datafile: | 240903S13 | | | | | | |
| Name | RT | Response | RA | ICAL | RRF | Deviation | |
| SS PCB-28 | 22.53 | 1.08E+08 | 1.00 Y | 1.01 | 1.09 | 7.8% | |
| SS PCB-111 | 32.38 | 7.00E+07 | 1.52 Y | 0.97 | 1.06 | 9.3% | |
| SS PCB-178 | 37.36 | 1.90E+07 | 1.07 Y | 0.74 | 0.75 | 0.8% | |
| | | | | | | | |
| CS PCB-28 | 22.53 | 1.08E+08 | 1.00 Y | 1.73 | 1.75 | 1.4% | |
| CS PCB-111 | 32.38 | 7.00E+07 | 1.52 Y | 1.25 | 1.26 | 1.1% | |
| CS PCB-178 | 37.36 | 1.90E+07 | 1.07 Y | 0.46 | 0.47 | 2.7% | |
| | | | | | | | |
| | | | | | | | |
| JS PCB-9 | 16.08 | 1.28E+08 | 1.53 Y | | | | |
| JS PCB-52 | 24.14 | 6.15E+07 | 0.73 Y | | | | |
| JS PCB-101 | 30.10 | 5.55E+07 | 1.53 Y | | | | |
| JS PCB-138 | 36.99 | 4.01E+07 | 1.19 Y | | | | |
| JS PCB-194 | 47.14 | 3.85E+07 | 0.87 Y | | | | |
| | | | | | | | |
| PCB-1 2-MoCB | 11.63 | 9.52E+07 | 3.17 Y | 1.47 | 1.53 | 4.0% | |
| PCB-3 4-MoCB | 13.89 | 9.37E+07 | 3.13 Y | 1.45 | 1.48 | 1.9% | |
| PCB-4 22'-DiCB | 14.14 | 4.51E+07 | 1.54 Y | 1.30 | 1.33 | 2.4% | |
| PCB-15 44'-DiCB | 19.80 | 8.16E+07 | 1.53 Y | 1.31 | 1.21 | -7.4% | |
| PCB-19 22'6-TrCB | 17.20 | 3.95E+07 | 1.05 Y | 1.16 | 1.21 | 3.9% | |
| PCB-37 344'-TrCB | 26.10 | 6.51E+07 | 1.07 Y | 1.43 | 1.32 | -7.8% | |
| PCB-54 22'66'-TeCB | 20.09 | 3.28E+07 | 0.82 Y | 1.52 | 1.40 | -7.9% | |
| PCB-104 22'466'-PeCB | 25.02 | 2.48E+07 | 0.65 Y | 1.46 | 1.22 | -16.9% | |
| PCB-155 22'44'66'-HxCB | 29.93 | 3.00E+07 | 1.29 Y | 1.36 | 1.07 | -20.9% | |
| PCB-188 22'34'566'-HpCB | 34.80 | 1.86E+07 | 1.04 Y | 1.55 | 1.46 | -5.8% | |
| PCB-202 22'33'55'66'-OcCB | 39.34 | 2.24E+07 | 0.87 Y | 1.32 | 1.14 | -13.9% | |
| PCB-205 233'44'55'6-OcCB | 47.60 | 2.46E+07 | 0.91 Y | 1.12 | 1.06 | -5.5% | |
| PCB-208 22'33'455'66'-NoCB | 44.95 | 2.31E+07 | 0.79 Y | 1.11 | 0.99 | -10.4% | |
| PCB-206 22'33'44'55'6-NoCB | 49.35 | 1.81E+07 | 0.79 Y | 1.04 | 1.17 | 12.9% | |
| | | | | | | | |
| FS PCB-8 | 16.89 | 1.33E+08 | 1.53 Y | 0.90 | 0.99 | 10.1% | |
| FS PCB-31 | 22.26 | 1.12E+08 | 1.02 Y | 1.03 | 1.14 | 10.8% | |
| FS PCB-60 | 29.40 | 8.80E+07 | 0.68 Y | 0.87 | 0.96 | 10.5% | |
| FS PCB-85 | 31.67 | 5.13E+07 | 1.45 Y | 0.68 | 0.78 | 13.6% | |
| FS PCB-128 | 38.08 | 4.64E+07 | 1.14 Y | 0.66 | 0.69 | 4.4% | |
| FS PCB-182 | 38.30 | 4.85E+07 | 0.99 Y | 0.90 | 1.00 | 11.5% | |
| | | | | | | | |
| AS PCB-32 | 20.21 | 9.74E+07 | 1.06 Y | 0.77 | 0.76 | -1.4% | |
| AS PCB-97 | 31.04 | 4.83E+07 | 1.51 Y | 0.86 | 0.87 | 0.8% | |
| AS PCB-159 NR - CL 04Sep24 | 38.87 | 6.15E+07 | 1.16 Y | 1.57 | 1.53 | -2.6% | |

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

ICV - spiked with secondary source
Sample ID: ~~ICAL SIL 27 92 2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13

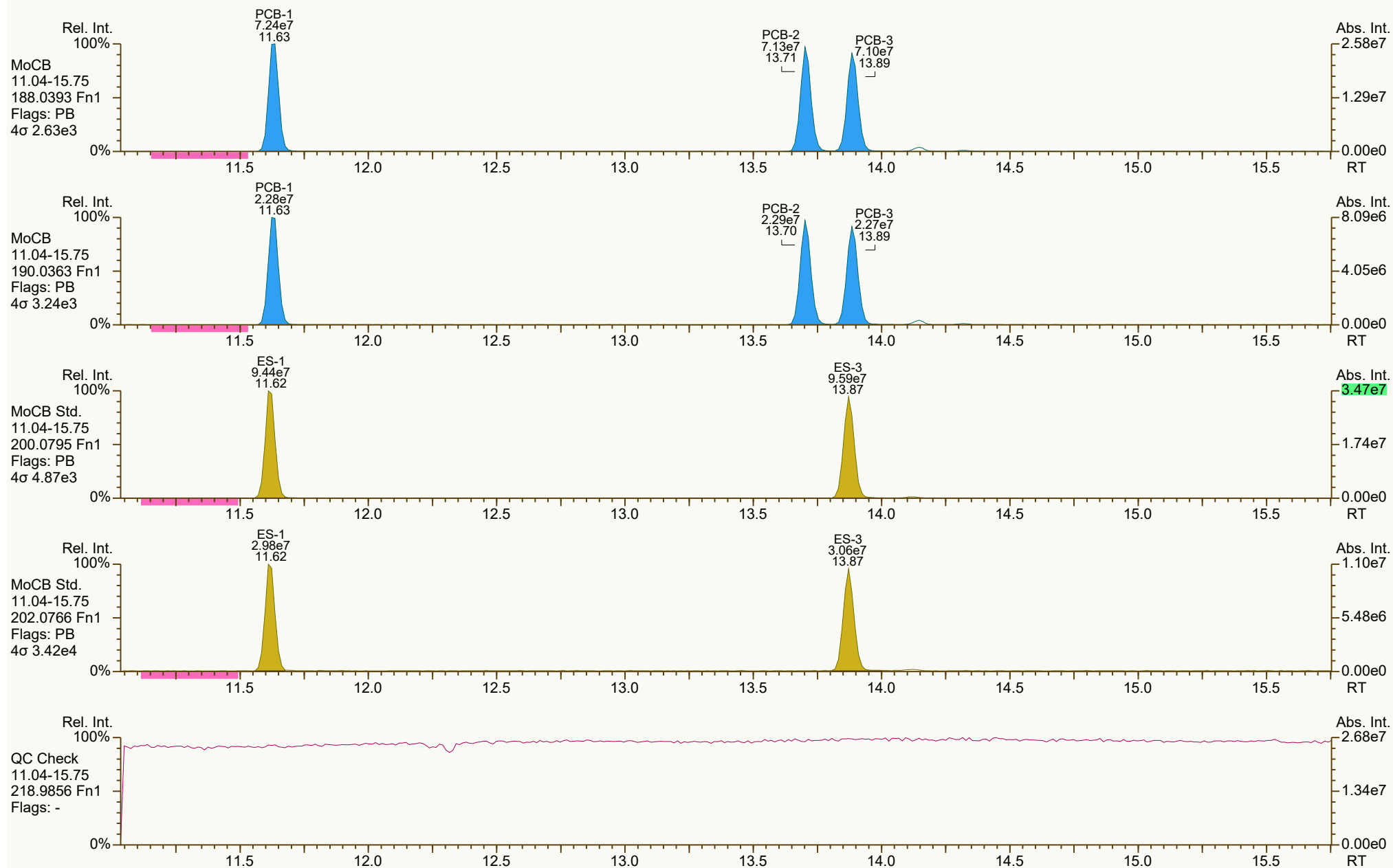


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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX scc: 346-361

Peak annotation: Areas, Centroids
PKD: n/a Printed: 04-Sep-2024 15:11 Page 1 of 21

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27-92-2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 6658, 1850 scc: 346-361

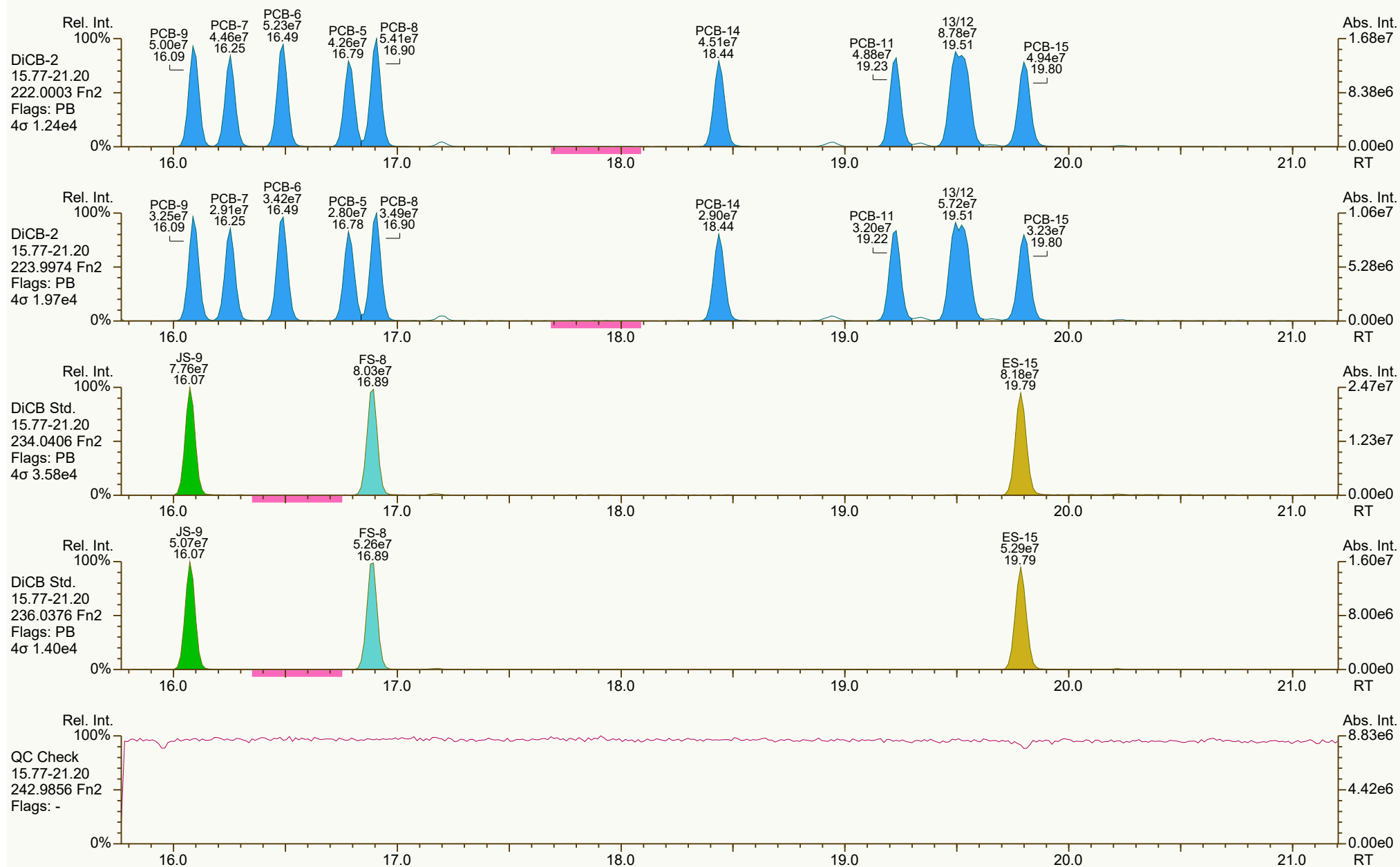
Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 15:11 Page 3 of 21

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27-92-2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
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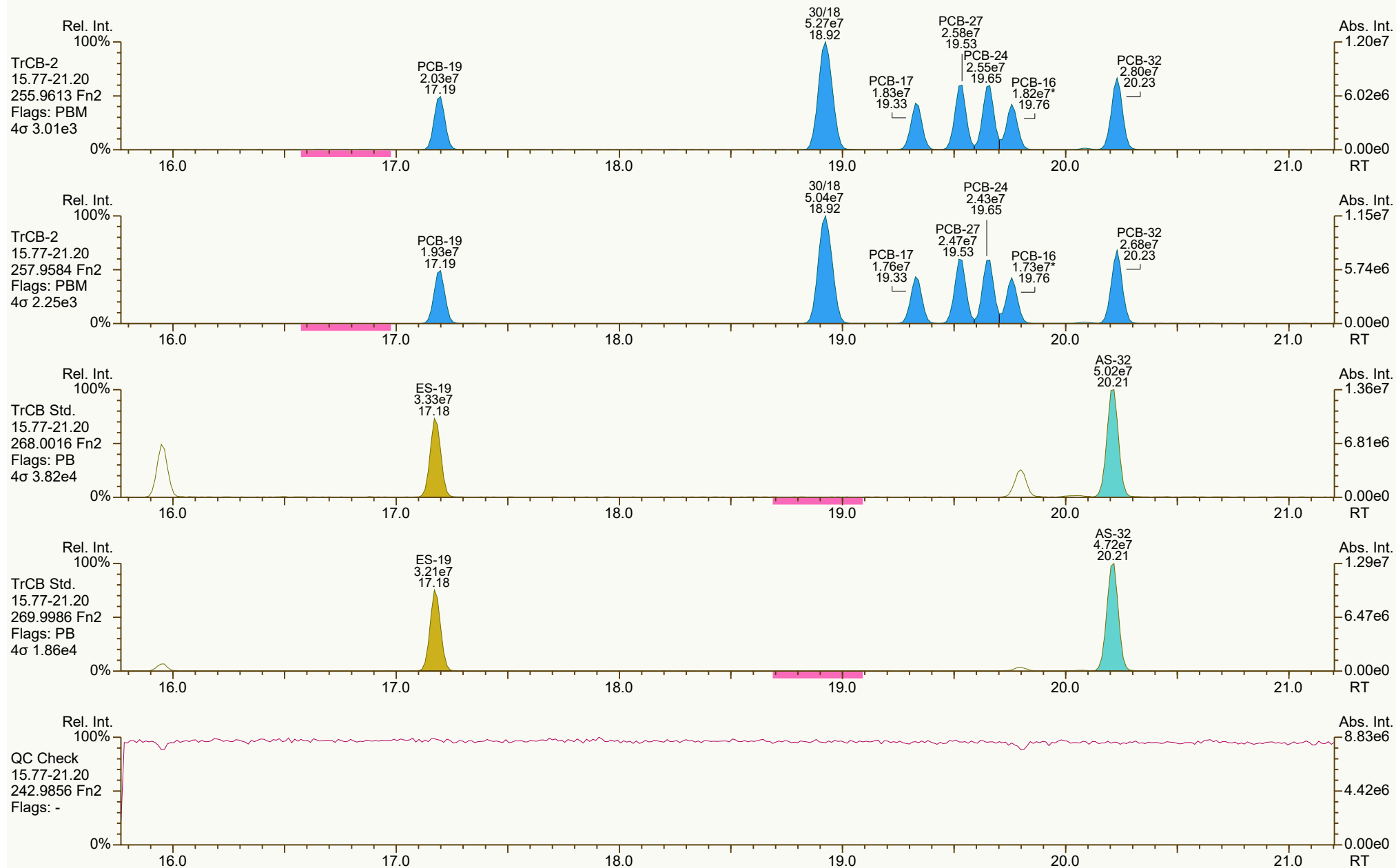
Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 15:11 Page 4 of 21

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27-92-2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 2522, 2722 scc: 346-361

Peak annotation: Areas, Centroids
Revised: 04-Sep-2024 10:22 (RAB) Printed: 04-Sep-2024 15:11 Page 5 of 21

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27 92 2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 5560, 9832 scc: 346-361

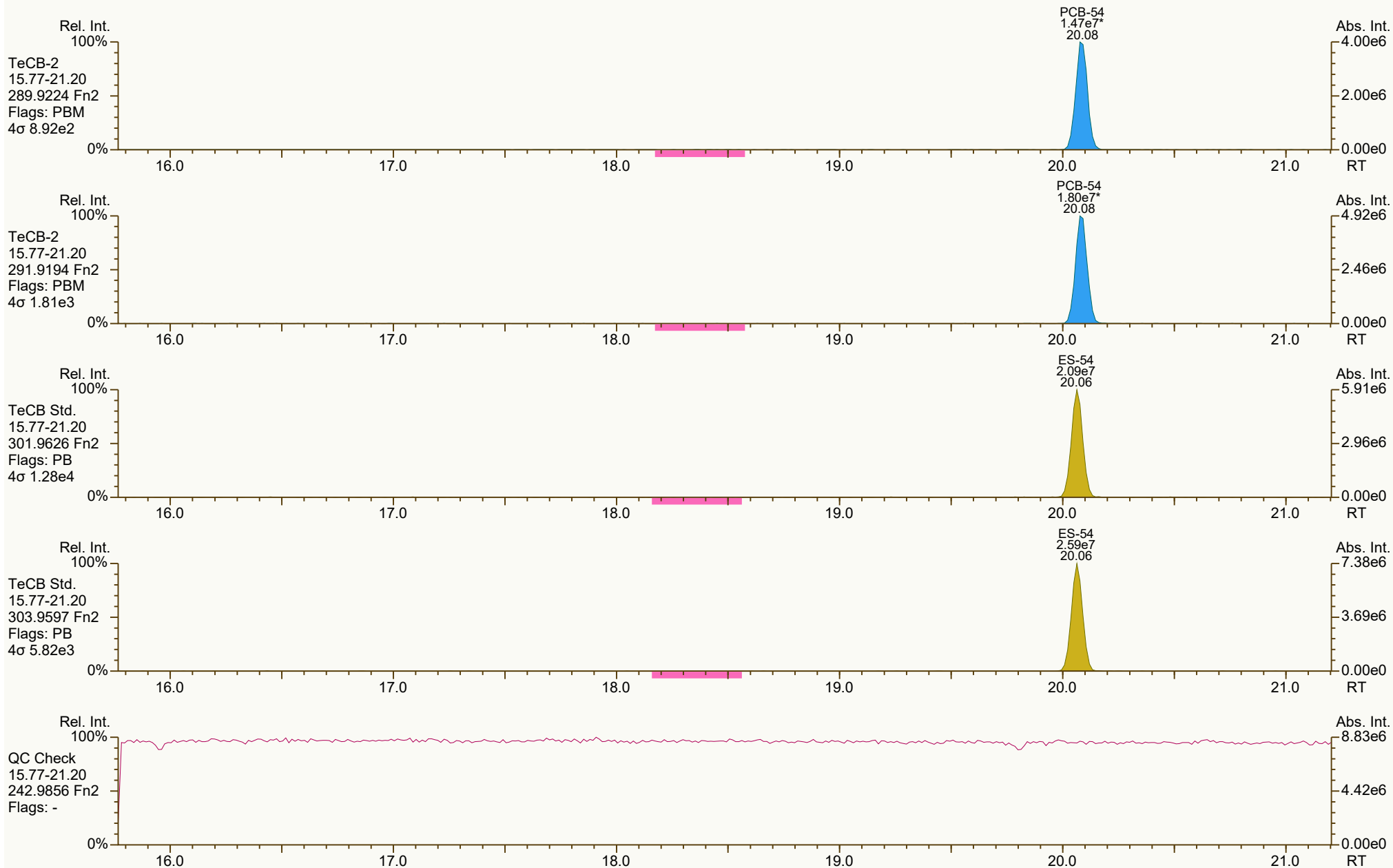
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Revised: 04-Sep-2024 10:34 (RAB) Printed: 04-Sep-2024 15:11 Page 6 of 21

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27-92-2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 4455, 5060 scc: 346-361

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:27 Printed: 04-Sep-2024 15:11 Page 7 of 21

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27 92 2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
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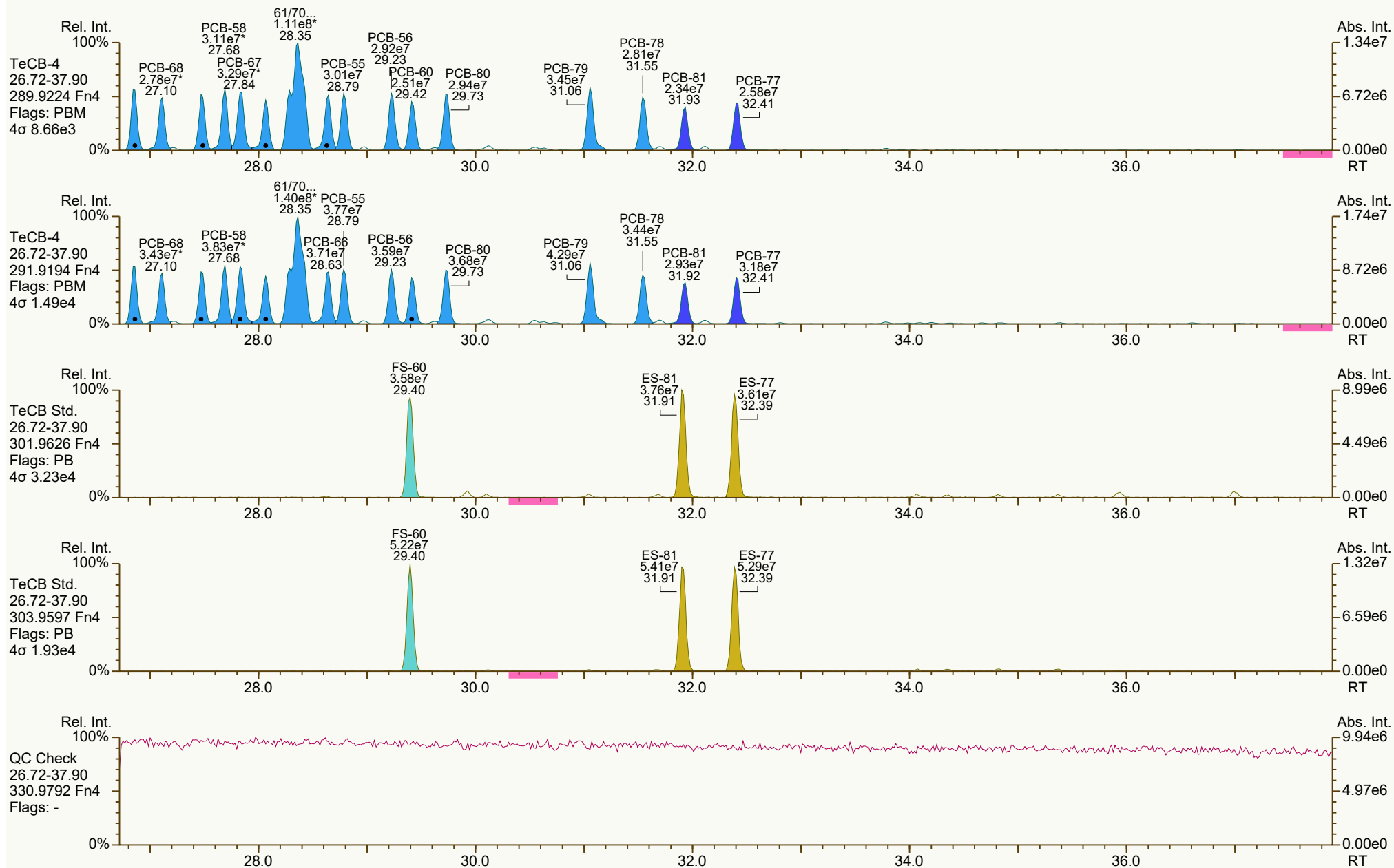
Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:27 Printed: 04-Sep-2024 15:11 Page 8 of 21

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27 92 2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:27 Printed: 04-Sep-2024 15:11 Page 9 of 21

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

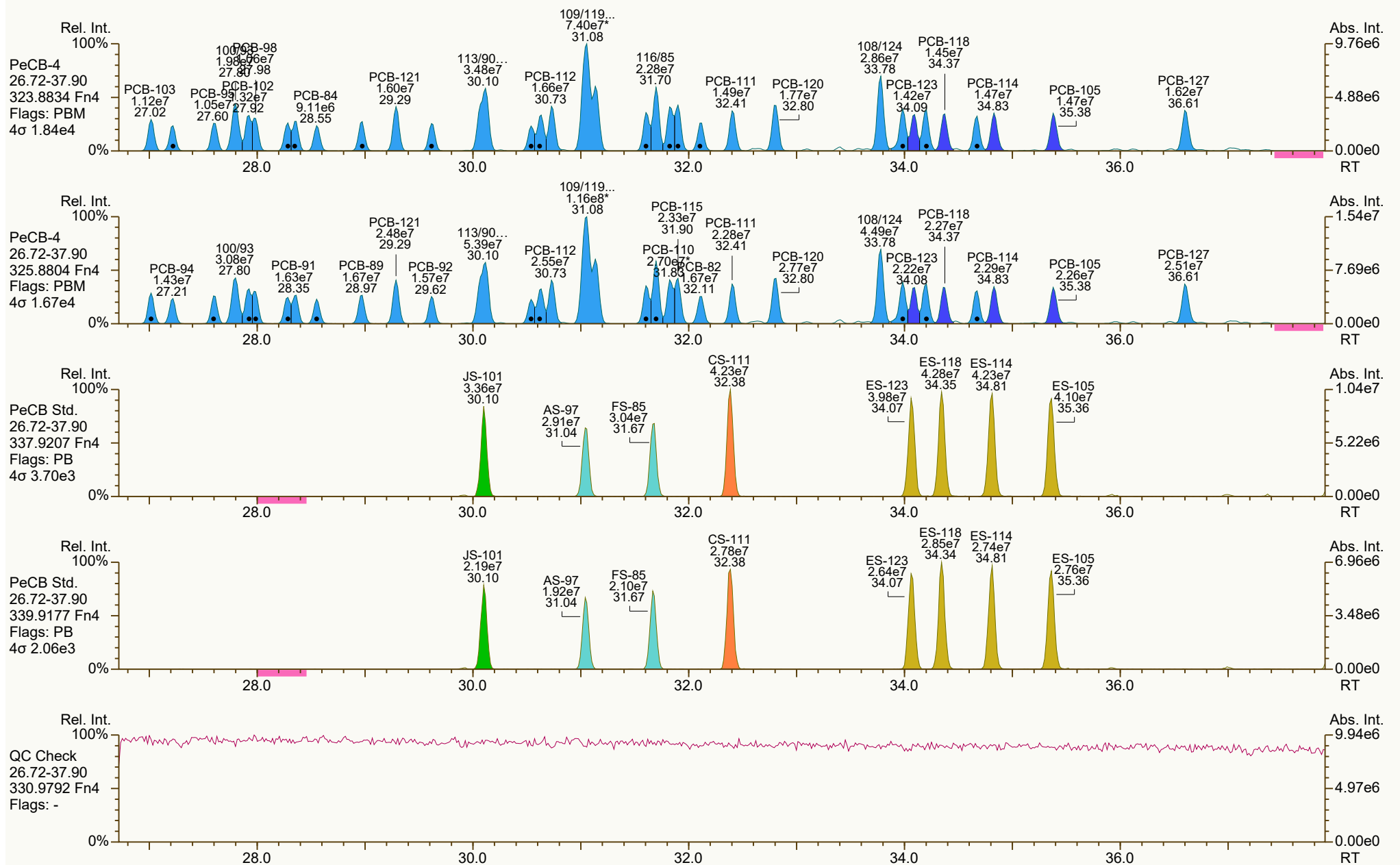
Sample ID: ~~ICAL SIL 27-92-2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 4297, 1442 scc: 346-361

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 15:11 Page 10 of 21



ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27-92-2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
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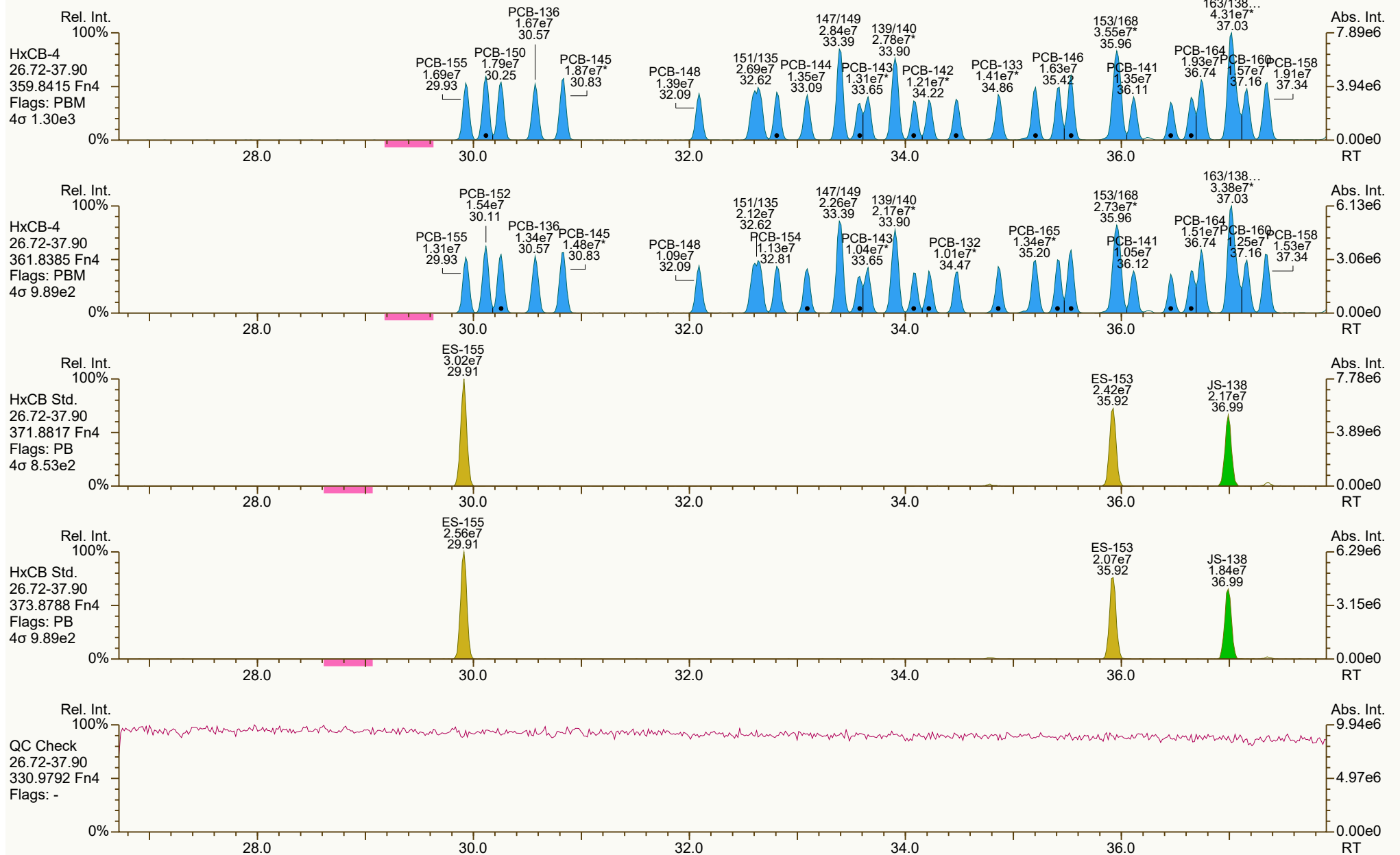
Peak annotation: Areas, Centroids
Revised: 04-Sep-2024 10:25 (RAB) Printed: 04-Sep-2024 15:11 Page 12 of 21

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL-SIL 27-92-2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
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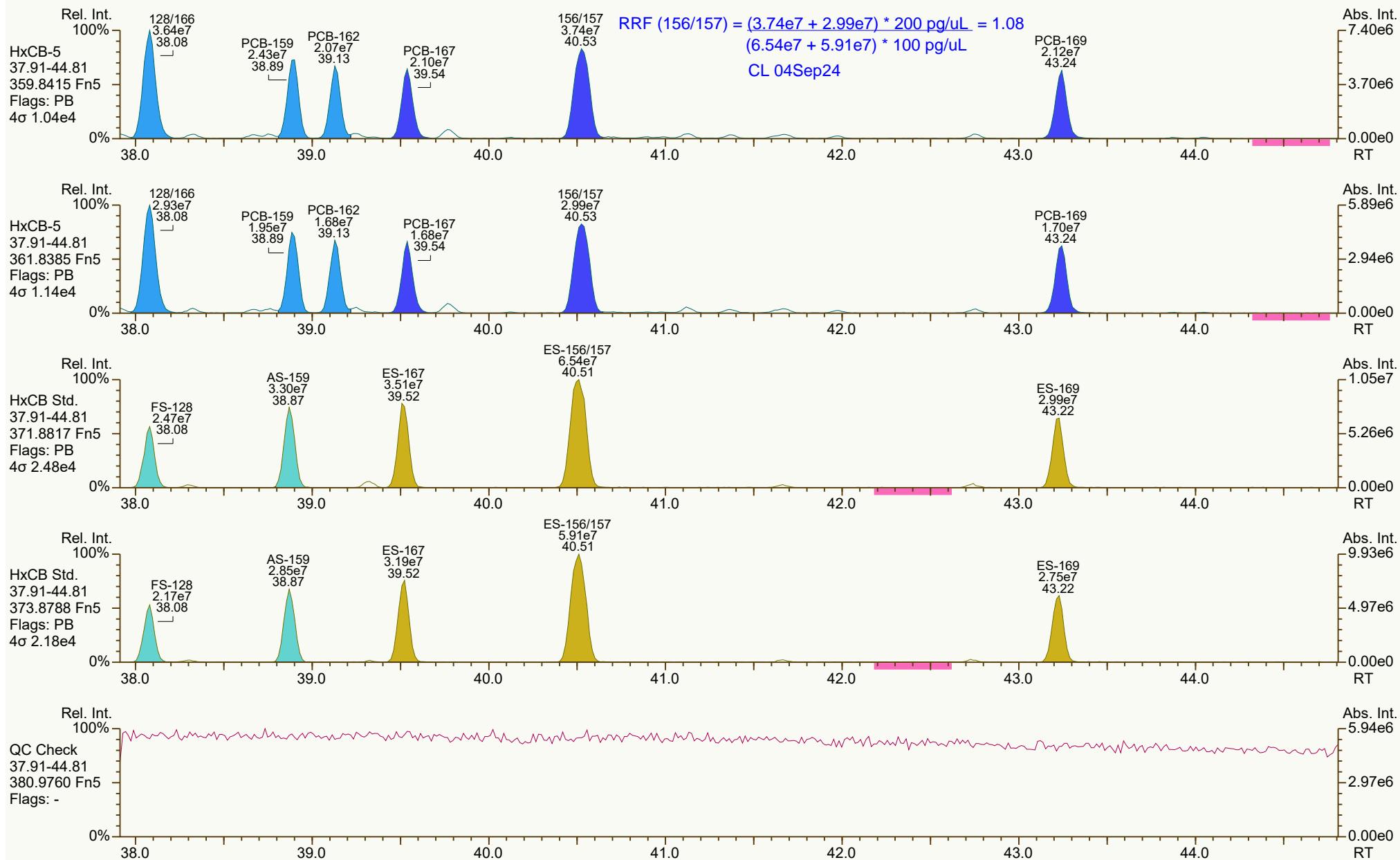
Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:27 Printed: 04-Sep-2024 15:11 Page 13 of 21

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27 92 2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 0322, 6600 scc: 346-361

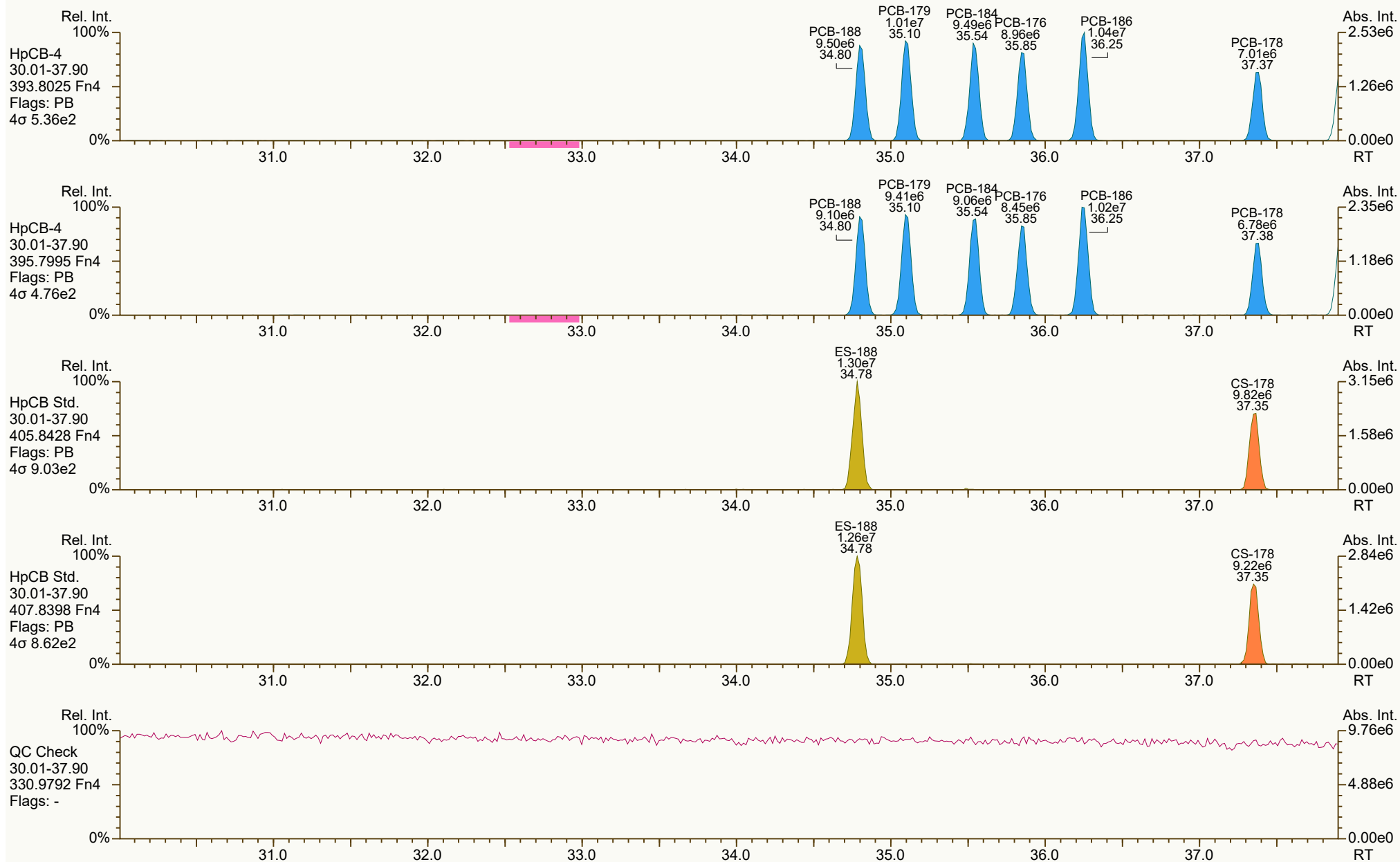
Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 15:11 Page 14 of 21

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27 92 2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 5891, 7434 scc: 346-361

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 15:11 Page 15 of 21

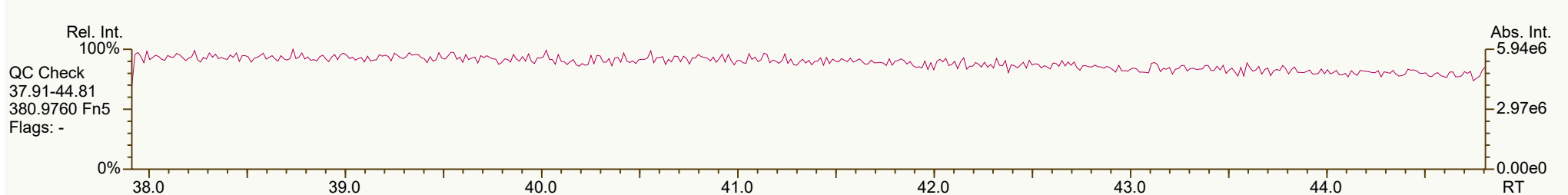
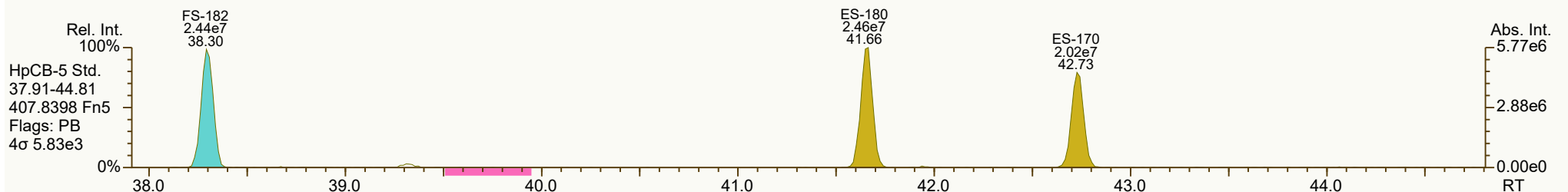
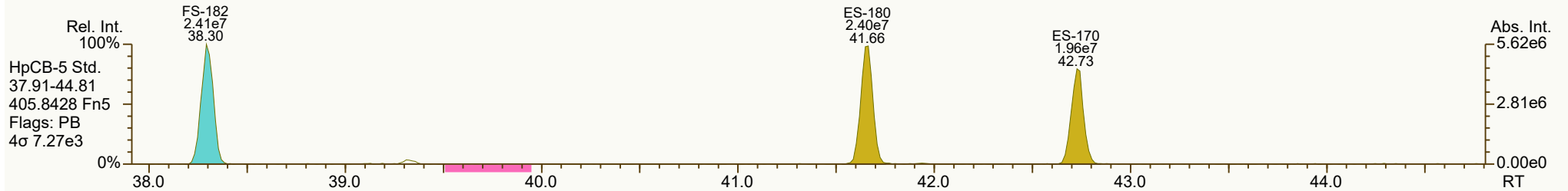
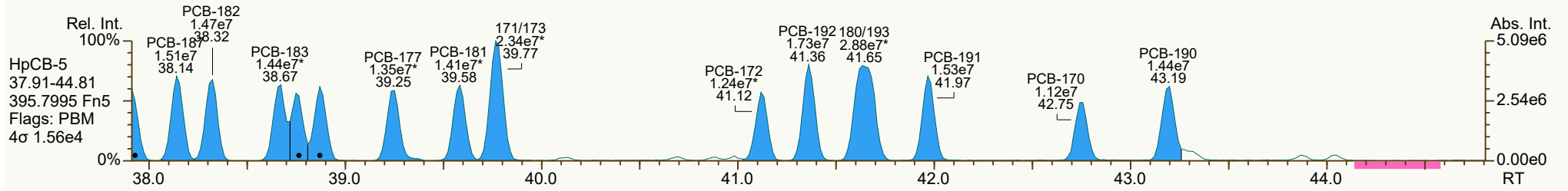
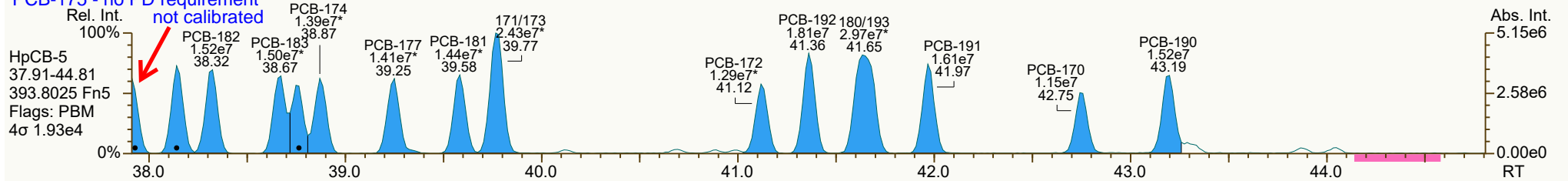
ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27 92 2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13

PCB-175 - no PD requirement
not calibrated



ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27 92 2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



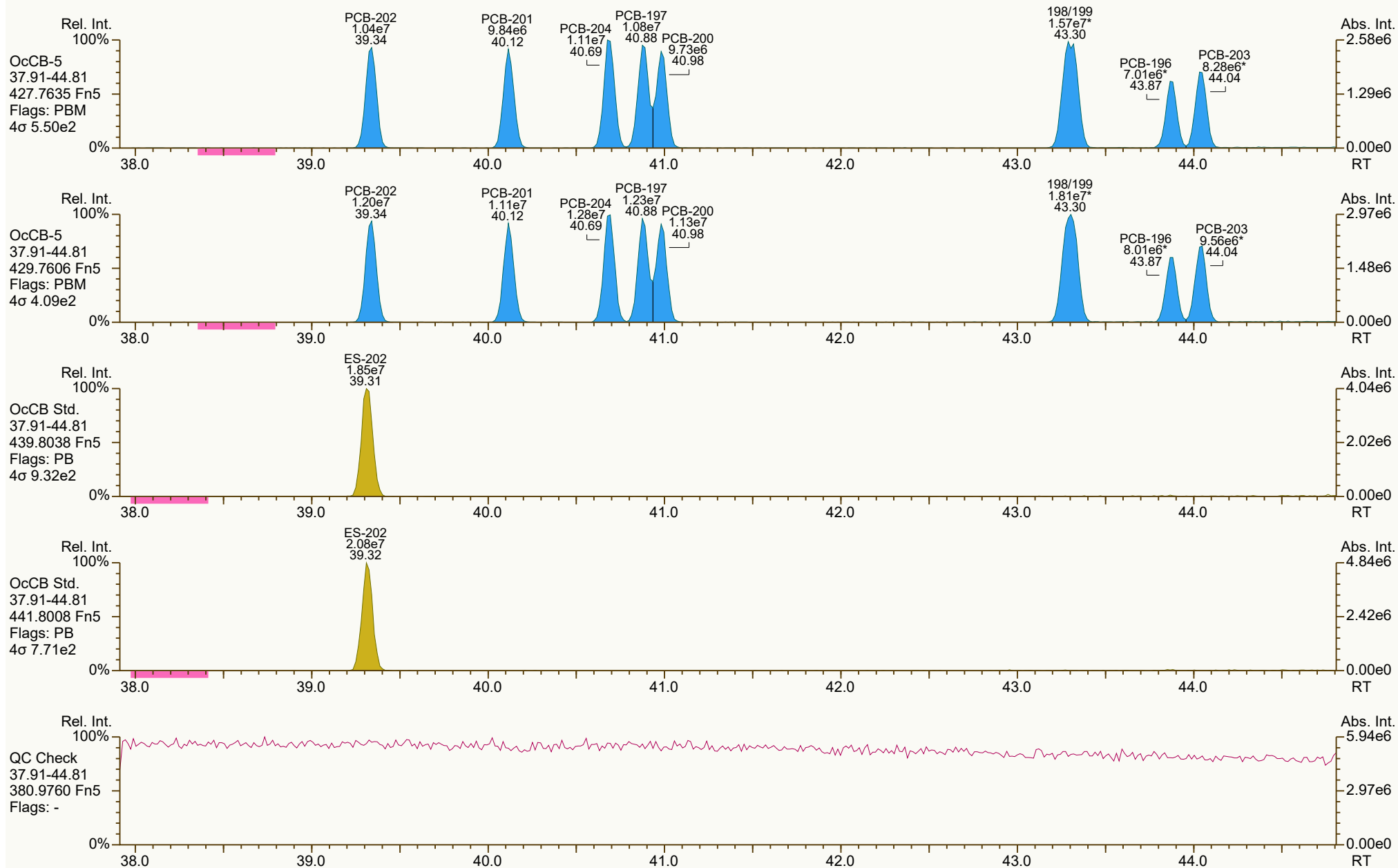
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 9629, 7658 scc: 346-361

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 15:11 Page 17 of 21

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

ICV - spiked with secondary source
Sample ID: ~~ICAL SIL 27 92 2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
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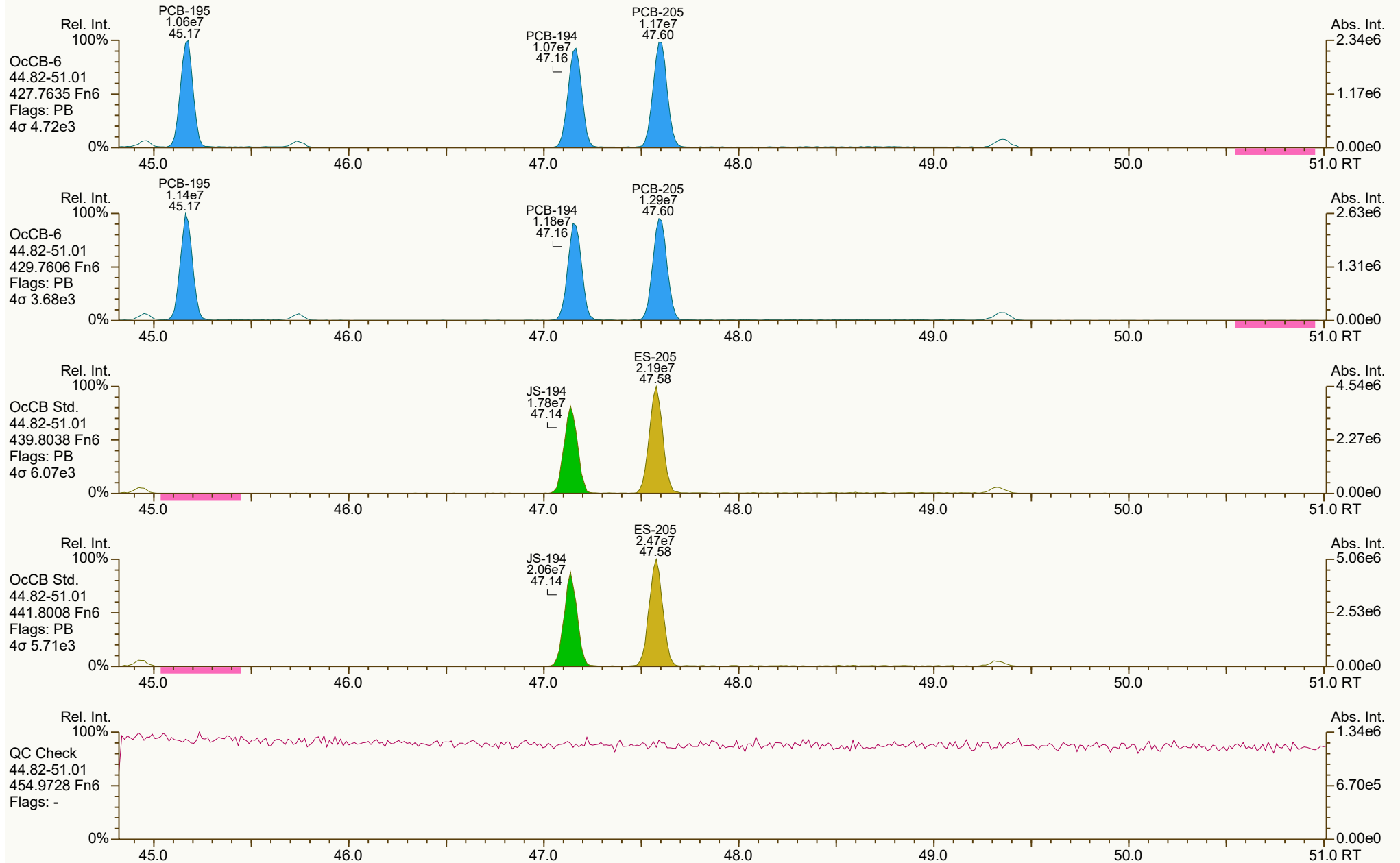
Peak annotation: Areas, Centroids
Revised: 04-Sep-2024 10:27 (RAB) Printed: 04-Sep-2024 15:11 Page 18 of 21

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27 92 2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 2963, 0631 scc: 346-361

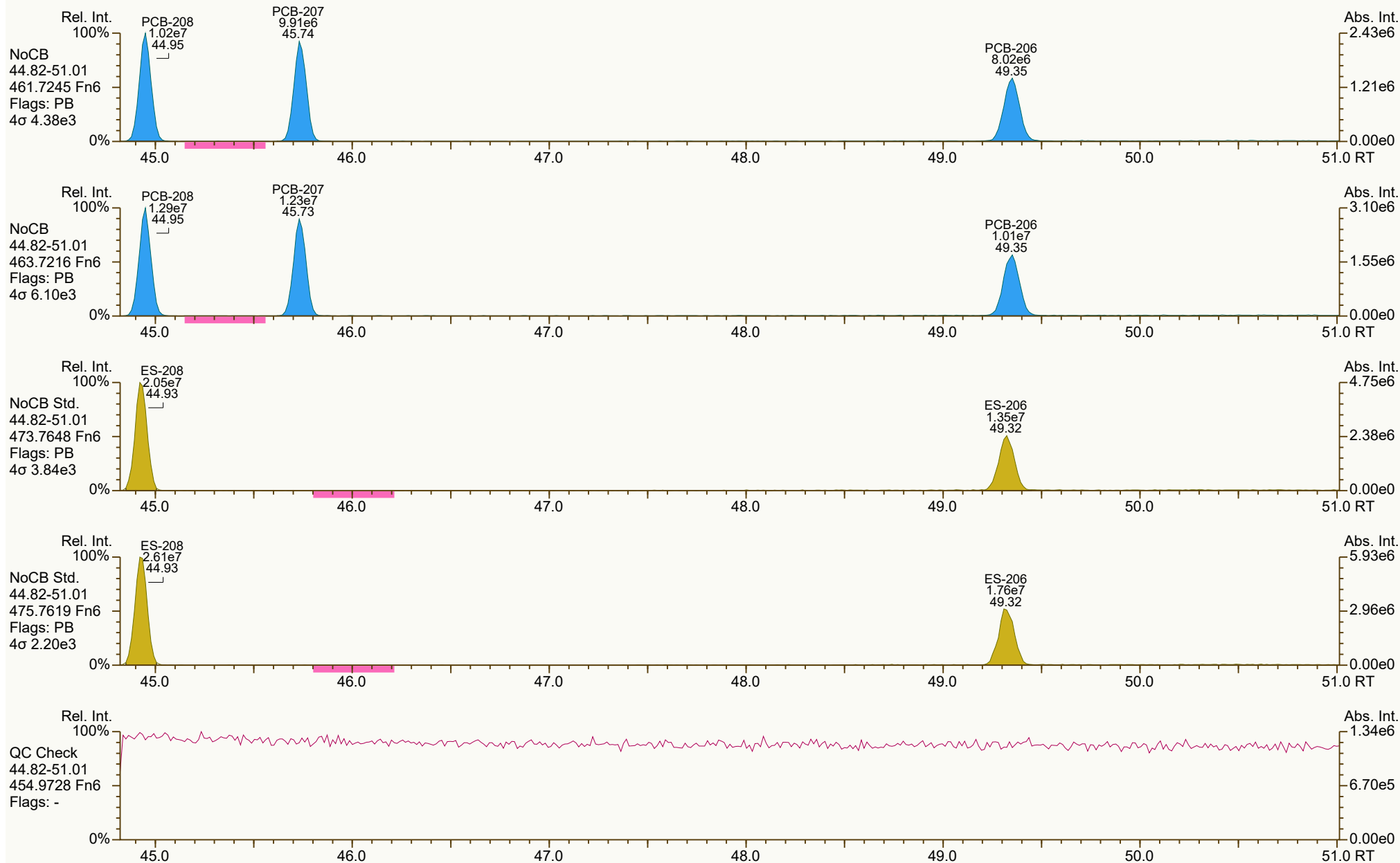
Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 15:11 Page 19 of 21

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27 92 2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\CS3_240903_PCB_SB.utp_res, saved 04-Sep-2024 15:05 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 9143, 6886 scc: 346-361

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 10:21 Printed: 04-Sep-2024 15:11 Page 20 of 21

ICV - spiked with secondary source

SGS ID: CS3_240903_PCB_SB
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: ~~ICAL SIL 27 92 2~~ CL 04Sep24
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 3

Acq: 04-Sep-2024 00:58:42
User: RAB Datafile: 240903S13



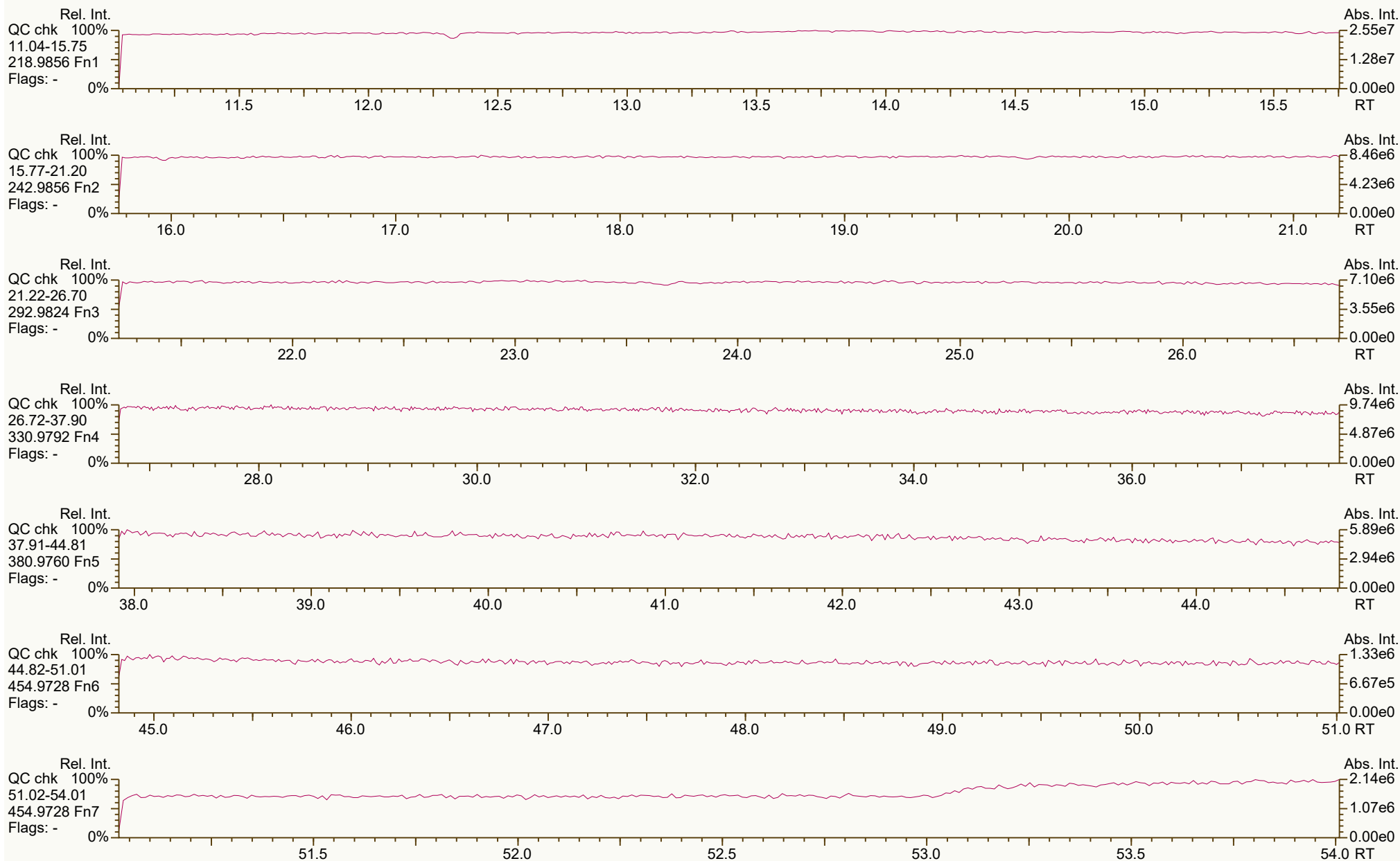
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 5665, 0802 scc: 346-361

Peak annotation: Areas, Centroids
Revised: 04-Sep-2024 10:21 (RAB) Printed: 04-Sep-2024 15:11 Page 21 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\SB_240903_PCB_SF.utp_res, saved 04-Sep-2024 15:03 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX scc: 550-926

Peak annotation: Areas, Centroids
PKD: n/a Printed: 04-Sep-2024 15:10 Page 1 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\SB_240903_PCB_SF.utp_res, saved 04-Sep-2024 15:03 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 0279, 0604 scc: 550-926

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 2 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\SB_240903_PCB_SF.utp_res, saved 04-Sep-2024 15:03 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 7065, 1712 scc: 550-926

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 3 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\SB_240903_PCB_SF.utp_res, saved 04-Sep-2024 15:03 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 0112, 3674 scc: 550-926

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 4 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\SB_240903_PCB_SF.utp_res, saved 04-Sep-2024 15:03 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 8048, 3266 scc: 550-926

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 5 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 4611, 4988 scc: 550-926

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 6 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



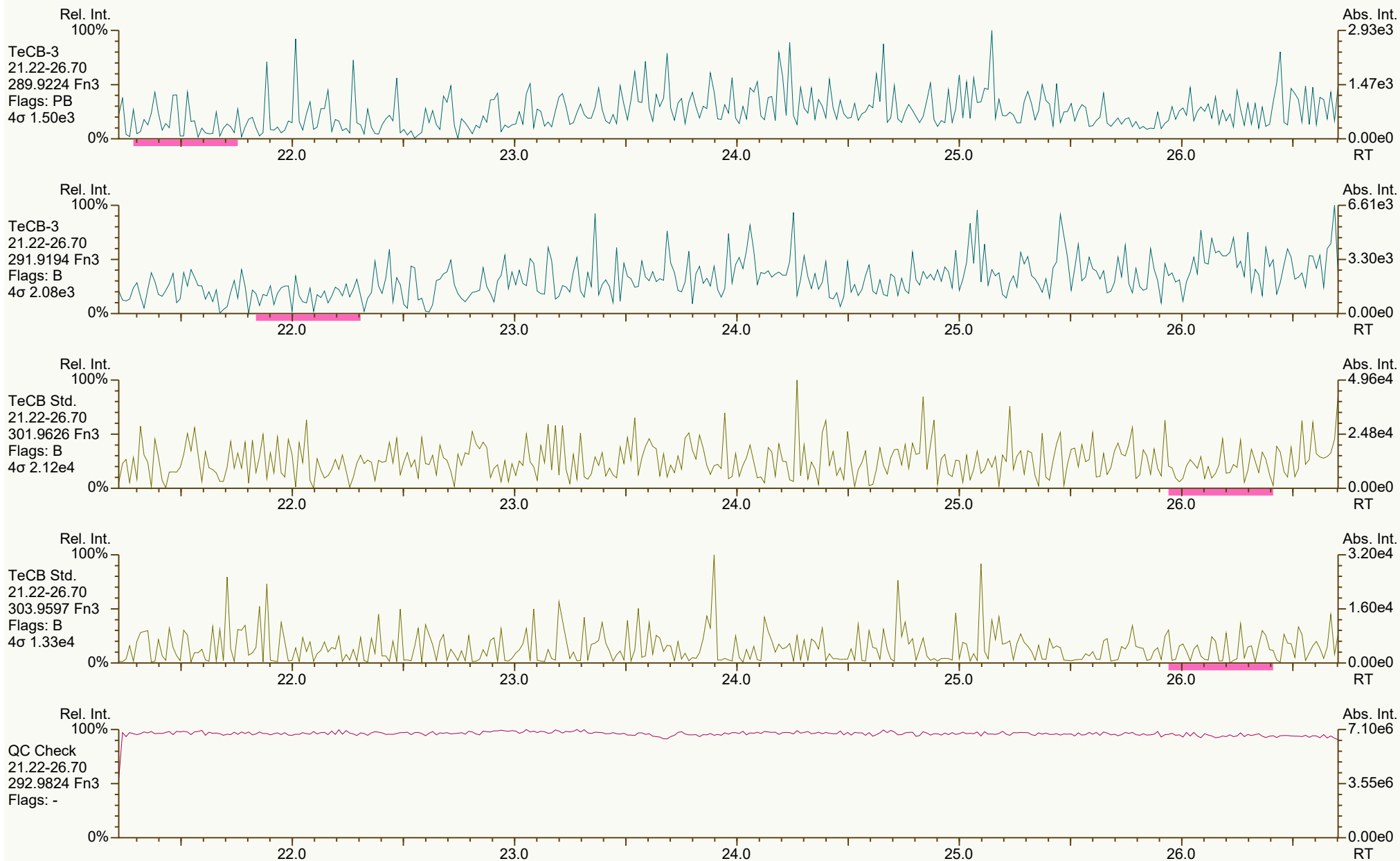
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 7 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 6032, 6534 scc: 550-926

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 8 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 6801, 3990 scc: 550-926

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 9 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



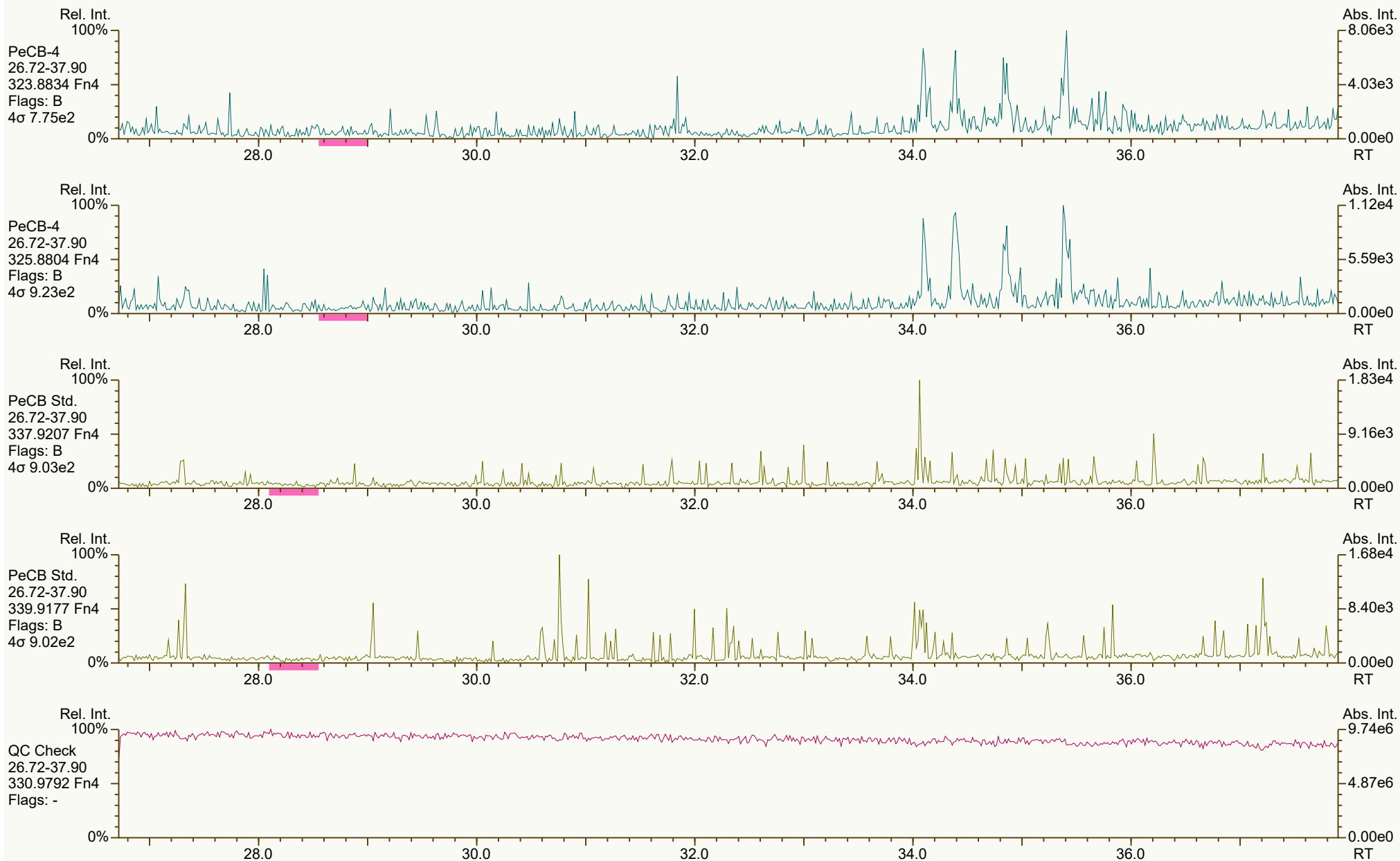
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 10 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\SB_240903_PCB_SF.utp_res, saved 04-Sep-2024 15:03 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 8230, 8570 scc: 550-926

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 11 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



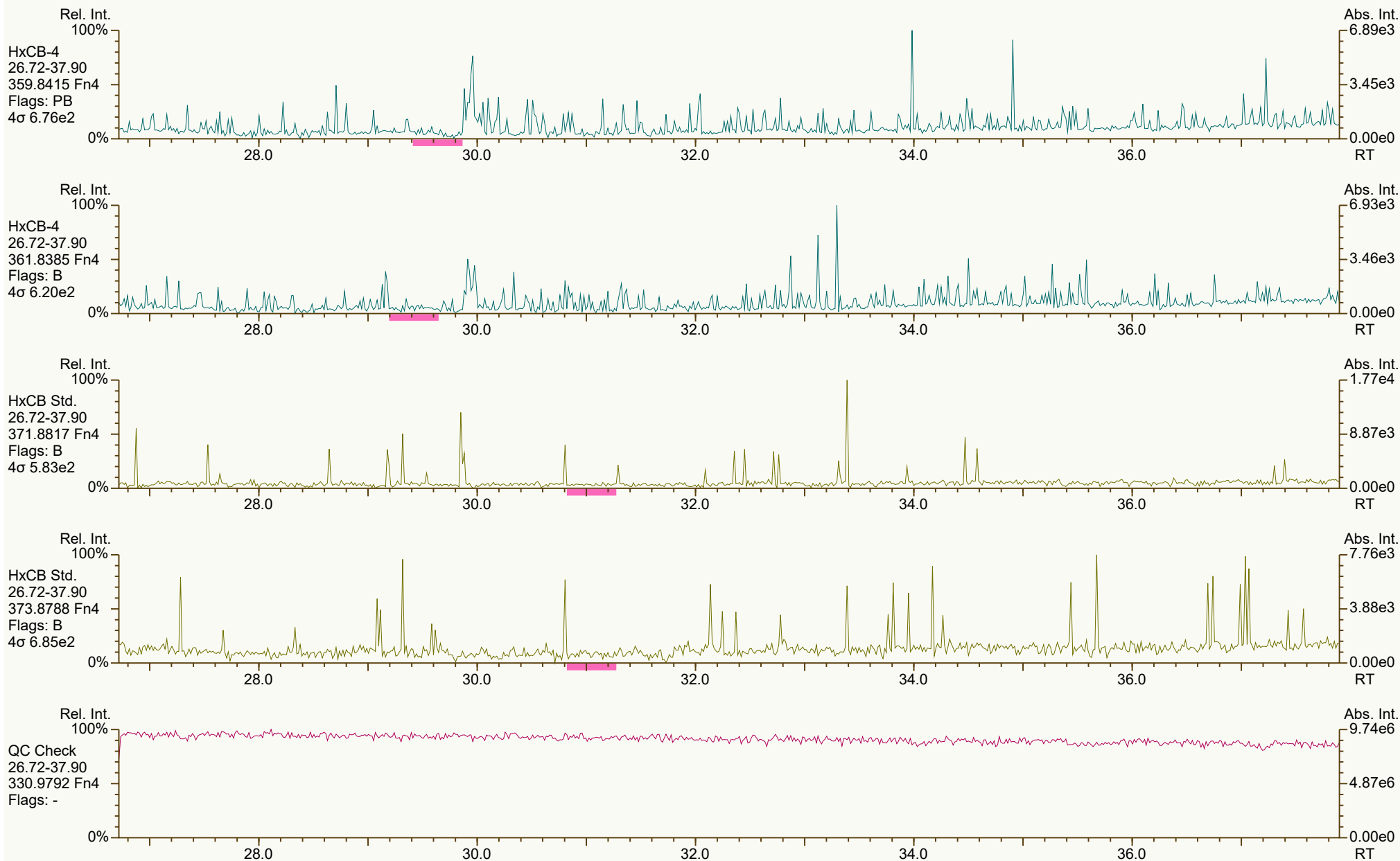
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 6012, 3155 scc: 550-926

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 12 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 13 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\SB_240903_PCB_SF.utp_res, saved 04-Sep-2024 15:03 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 0662, 1534 scc: 550-926

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 14 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:10 Page 15 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\SB_240903_PCB_SF.utp_res, saved 04-Sep-2024 15:03 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 1890, 9743 scc: 550-926

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 16 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



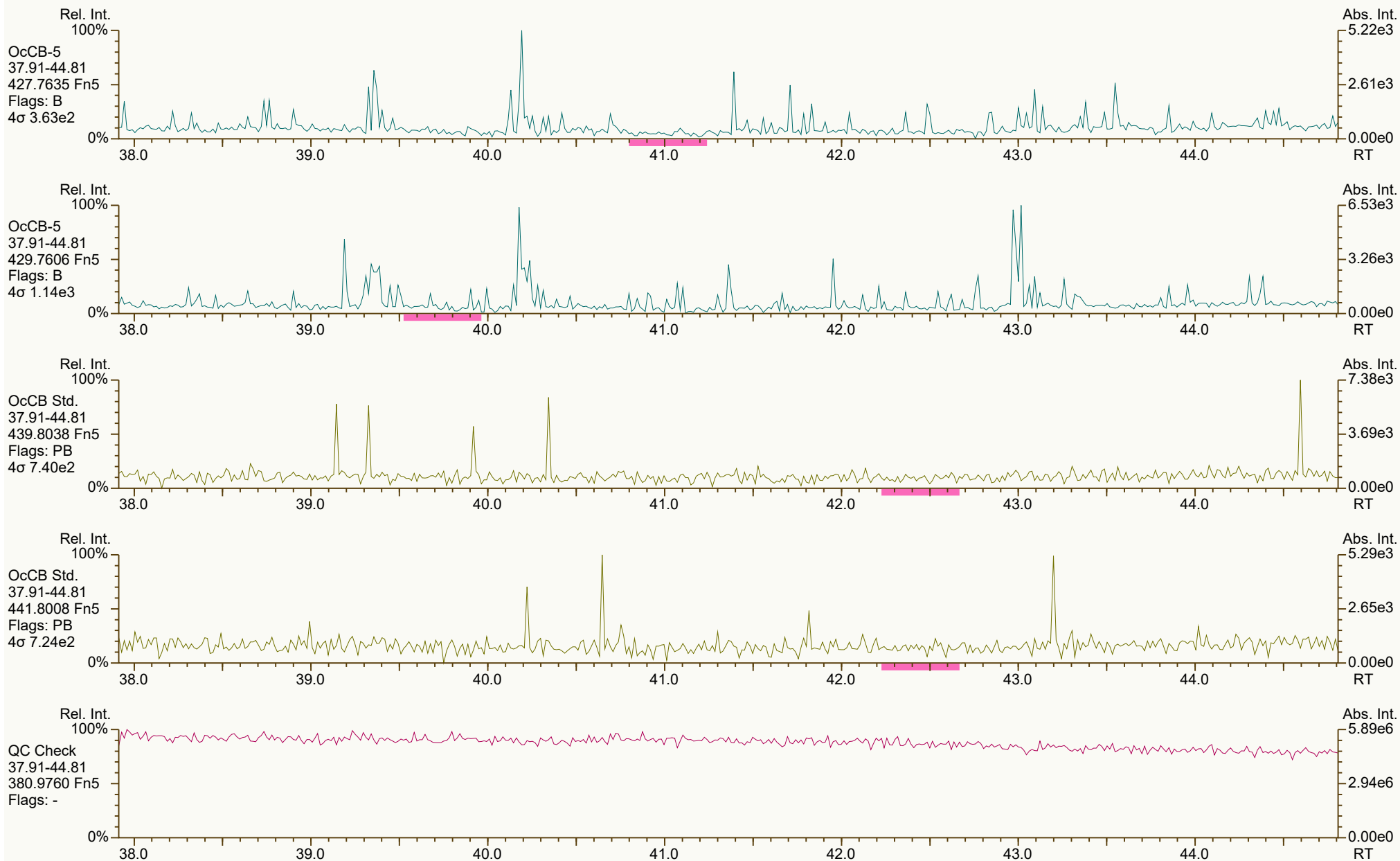
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 1818, 2599 scc: 550-926

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 17 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\SB_240903_PCB_SF.utp_res, saved 04-Sep-2024 15:03 (RAB)
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 18 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 19 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\SB_240903_PCB_SF.utp_res, saved 04-Sep-2024 15:03 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 5978, 4252 scc: 550-926

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 20 of 21

SGS ID: SB_240903_PCB_SF
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 03-Sep-2024 22:53:15
User: RAB Datafile: 240903S11



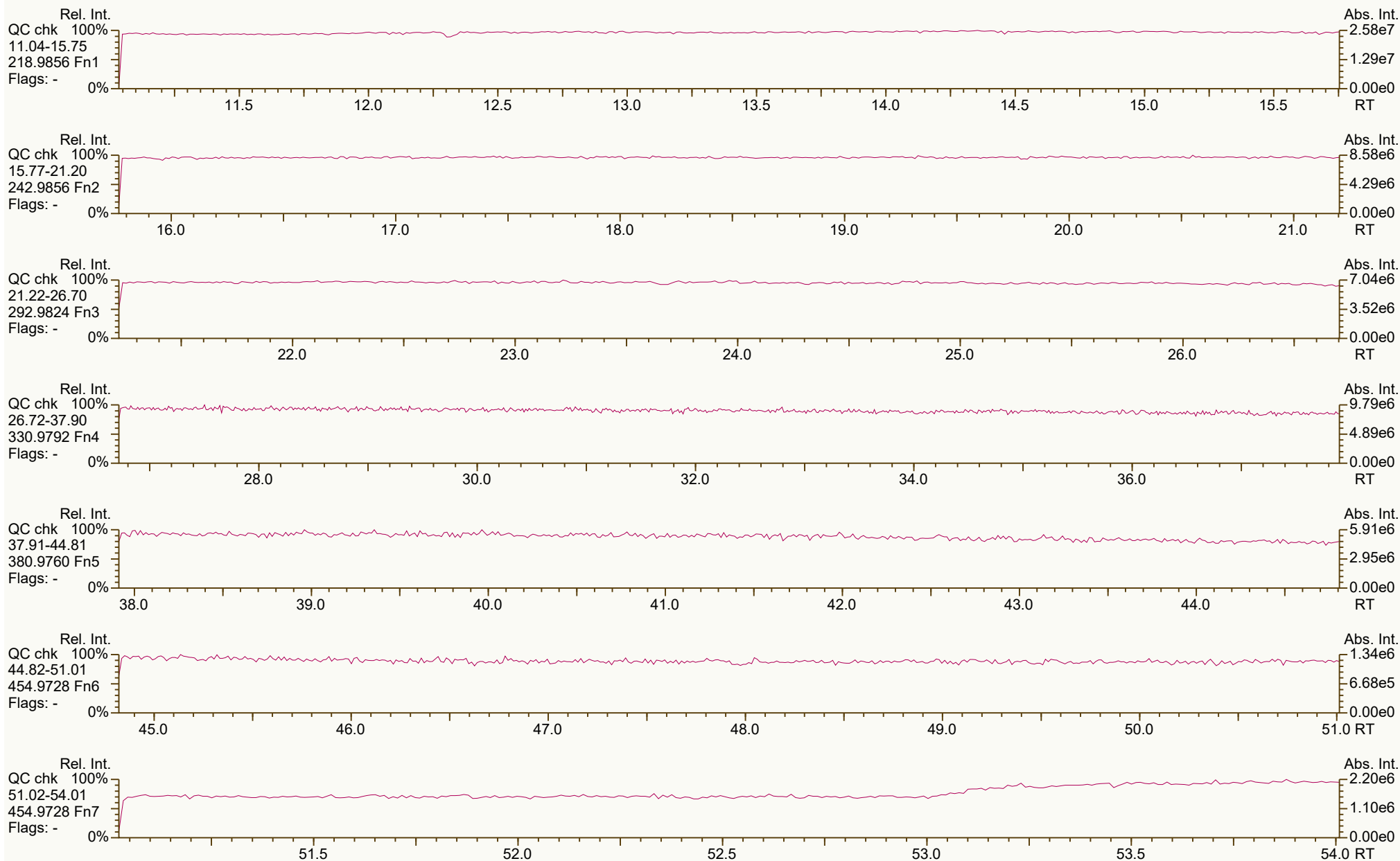
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 5260, 8218 scc: 550-926

Peak annotation: Areas, Centroids
Revised: 04-Sep-2024 15:03 (RAB) Printed: 04-Sep-2024 15:11 Page 21 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 04-Sep-2024 01:56:12
User: RAB Datafile: 240903S14



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\SB_240903_PCB_SG.utp_res, saved 04-Sep-2024 15:03 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX scc: 641-261

Peak annotation: Areas, Centroids
PKD: n/a Printed: 04-Sep-2024 15:11 Page 1 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 04-Sep-2024 01:56:12
User: RAB Datafile: 240903S14



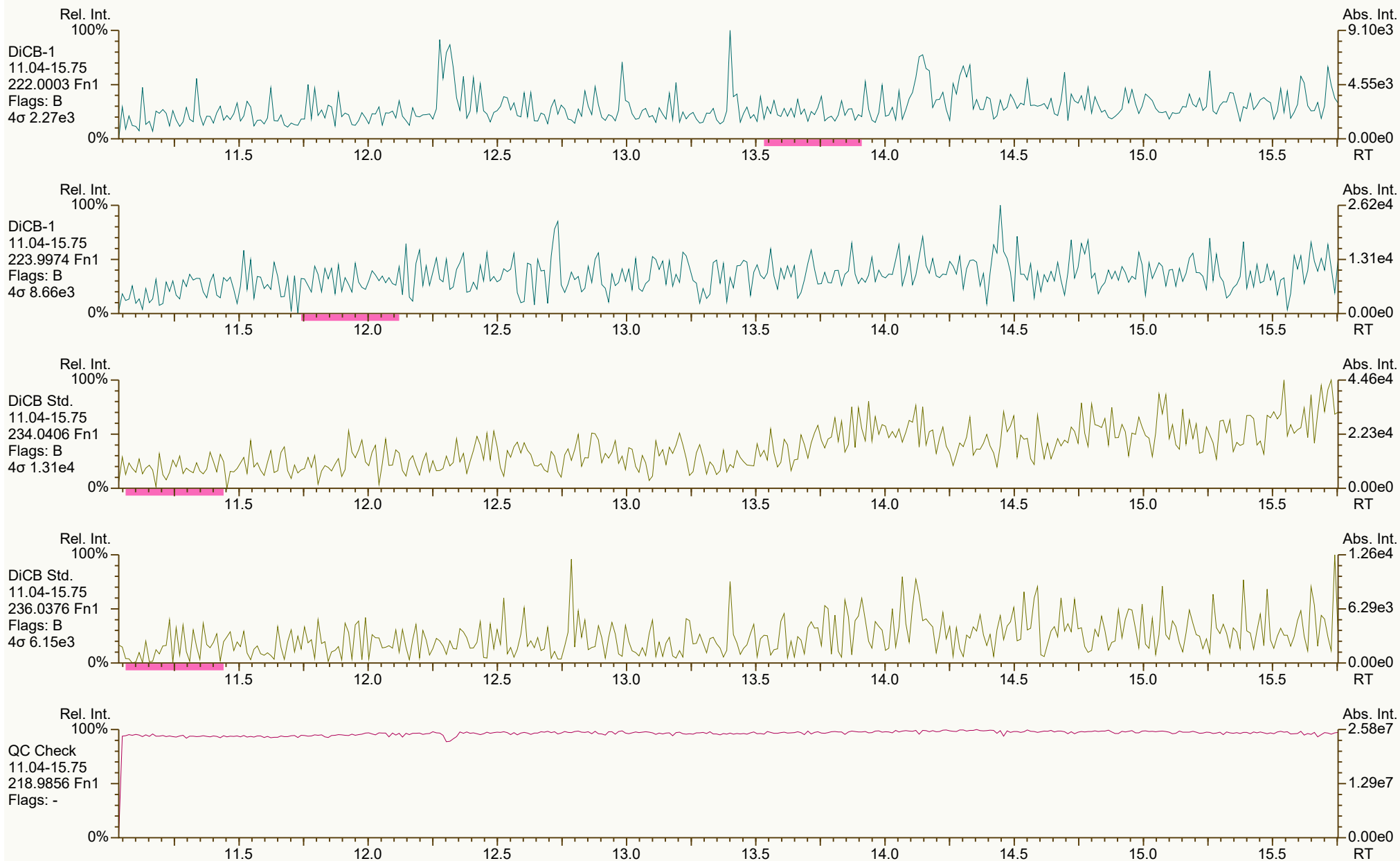
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SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 3719, 1093 scc: 641-261

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 2 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 04-Sep-2024 01:56:12
User: RAB Datafile: 240903S14



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 3 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 04-Sep-2024 01:56:12
User: RAB Datafile: 240903S14



Results: T:\UltraTracePro\ICAL_results\MM4\MM4-PCB_04SEP2024\Resources\ICV\SB_240903_PCB_SG.utp_res, saved 04-Sep-2024 15:03 (RAB)
SGS UltraTrace-Pro V5.12 User/System: RAB/USPF2F2DQX cc: 0813, 5984 scc: 641-261

Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 4 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 04-Sep-2024 01:56:12
User: RAB Datafile: 240903S14



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 5 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 04-Sep-2024 01:56:12
User: RAB Datafile: 240903S14



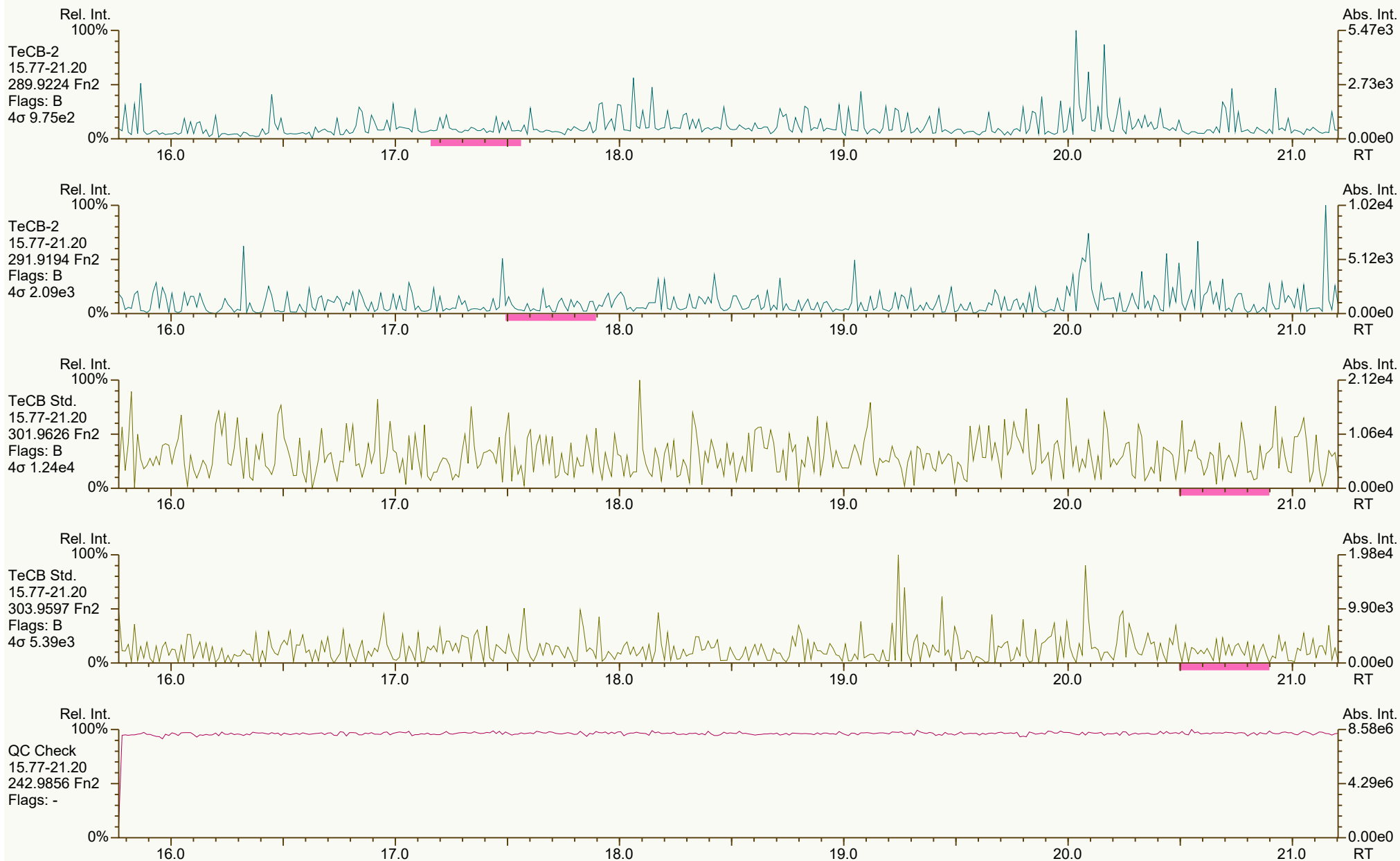
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 6 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 04-Sep-2024 01:56:12
User: RAB Datafile: 240903S14



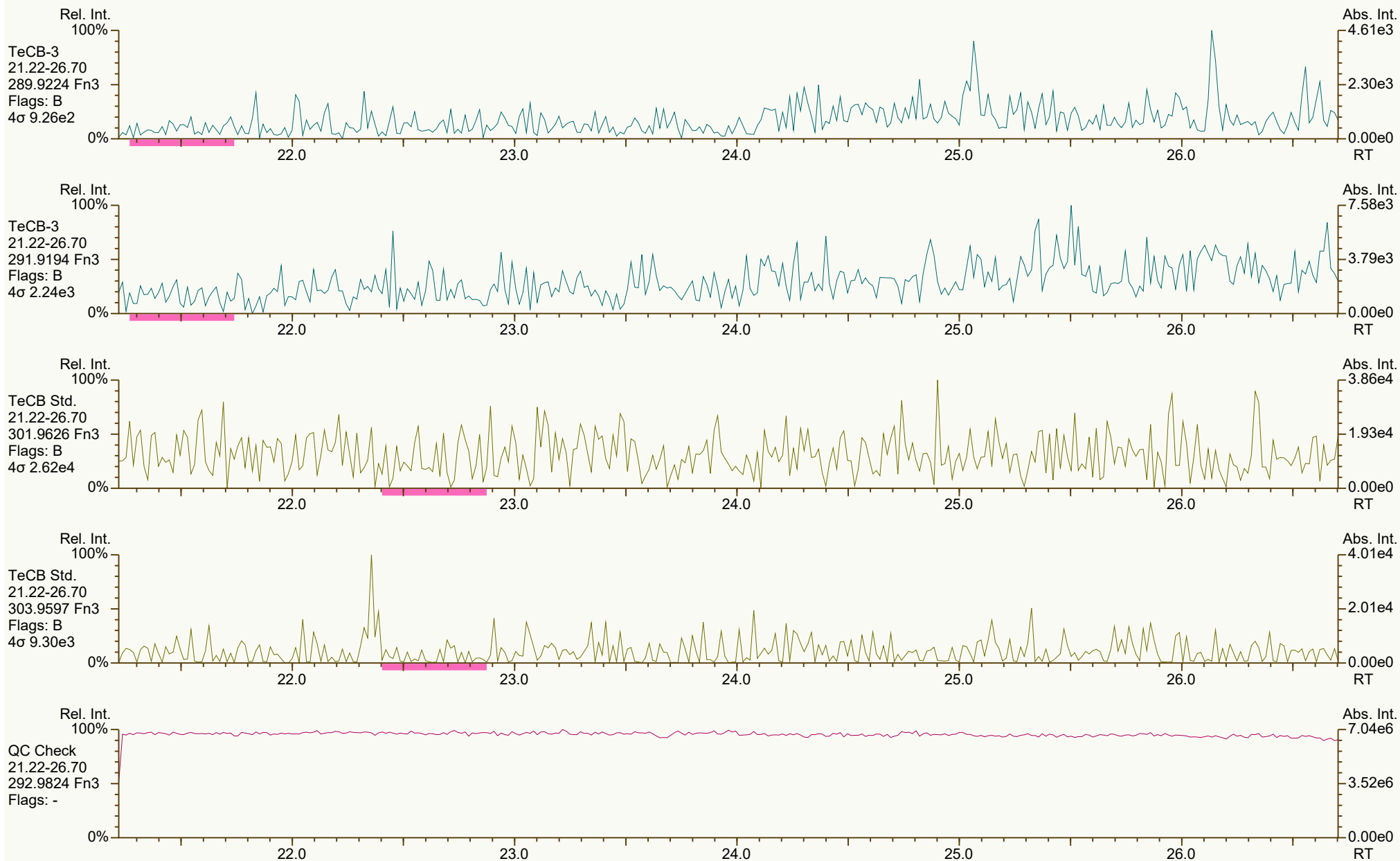
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 7 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 04-Sep-2024 01:56:12
User: RAB Datafile: 240903S14



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 8 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 04-Sep-2024 01:56:12
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 9 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 04-Sep-2024 01:56:12
User: RAB Datafile: 240903S14



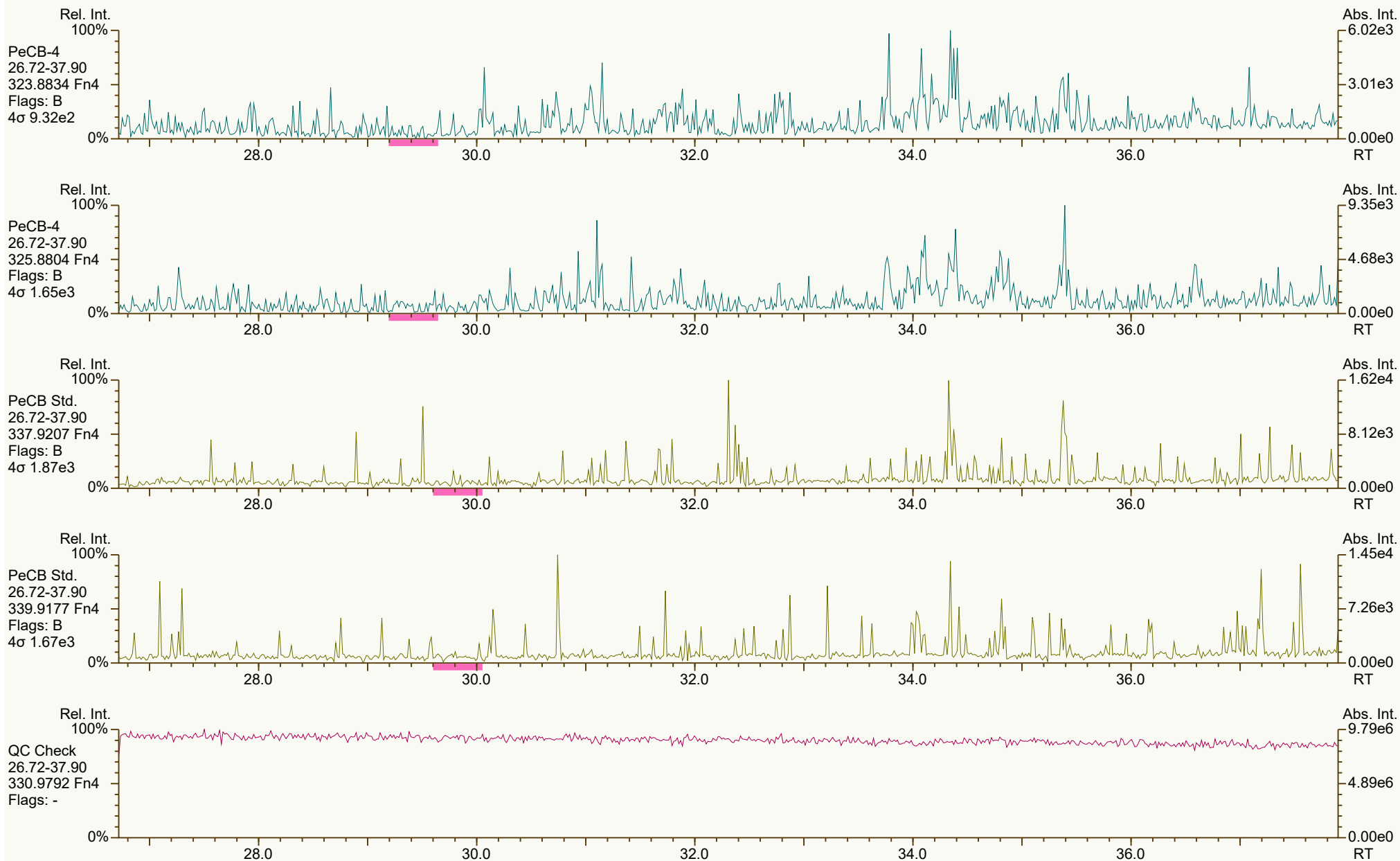
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Peak annotation: Areas, Centroids
Revised: 04-Sep-2024 15:03 (RAB) Printed: 04-Sep-2024 15:11 Page 10 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

Acq: 04-Sep-2024 01:56:12
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 11 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 12 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

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User: RAB Datafile: 240903S14



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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 13 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
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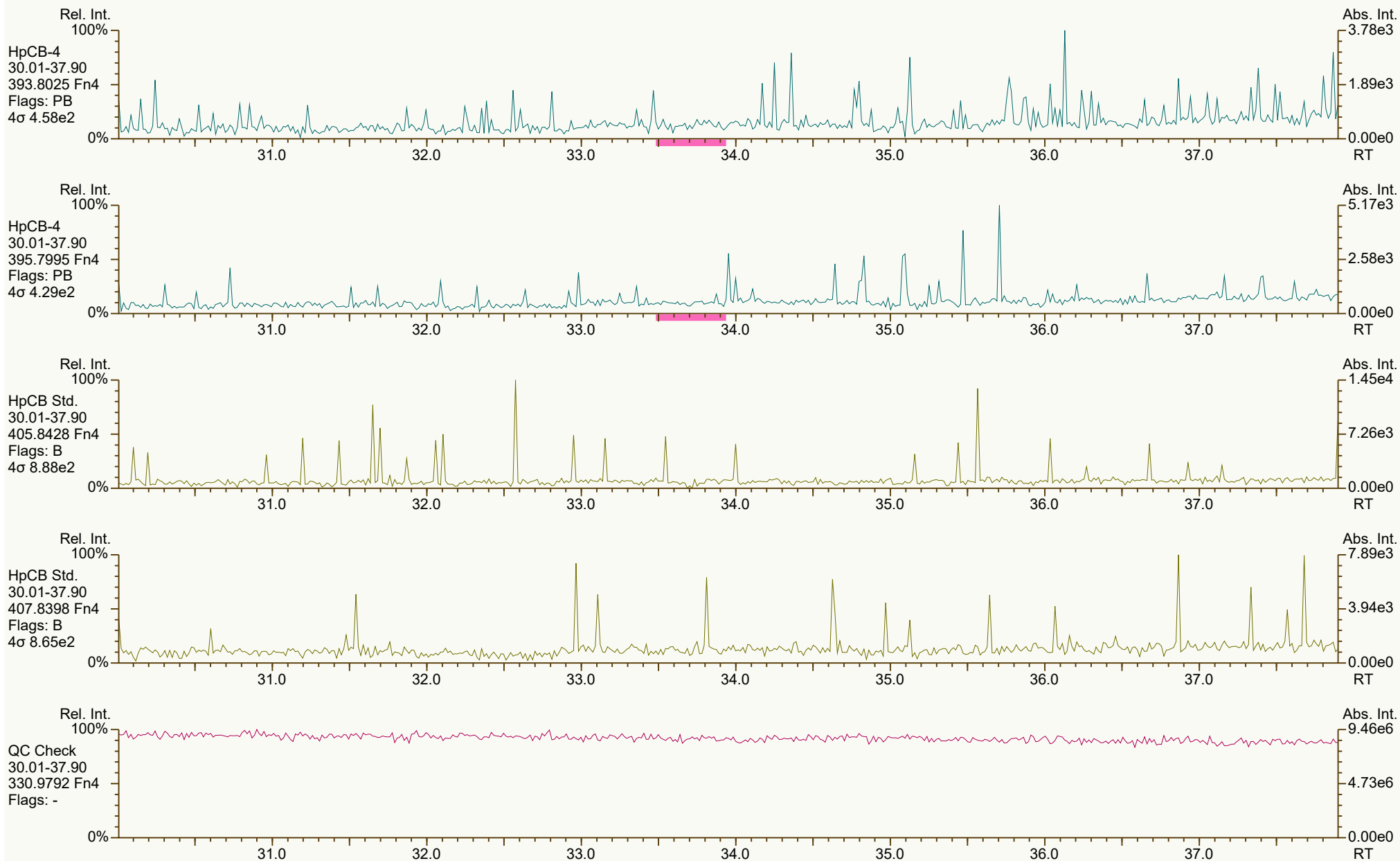
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:11 Page 14 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
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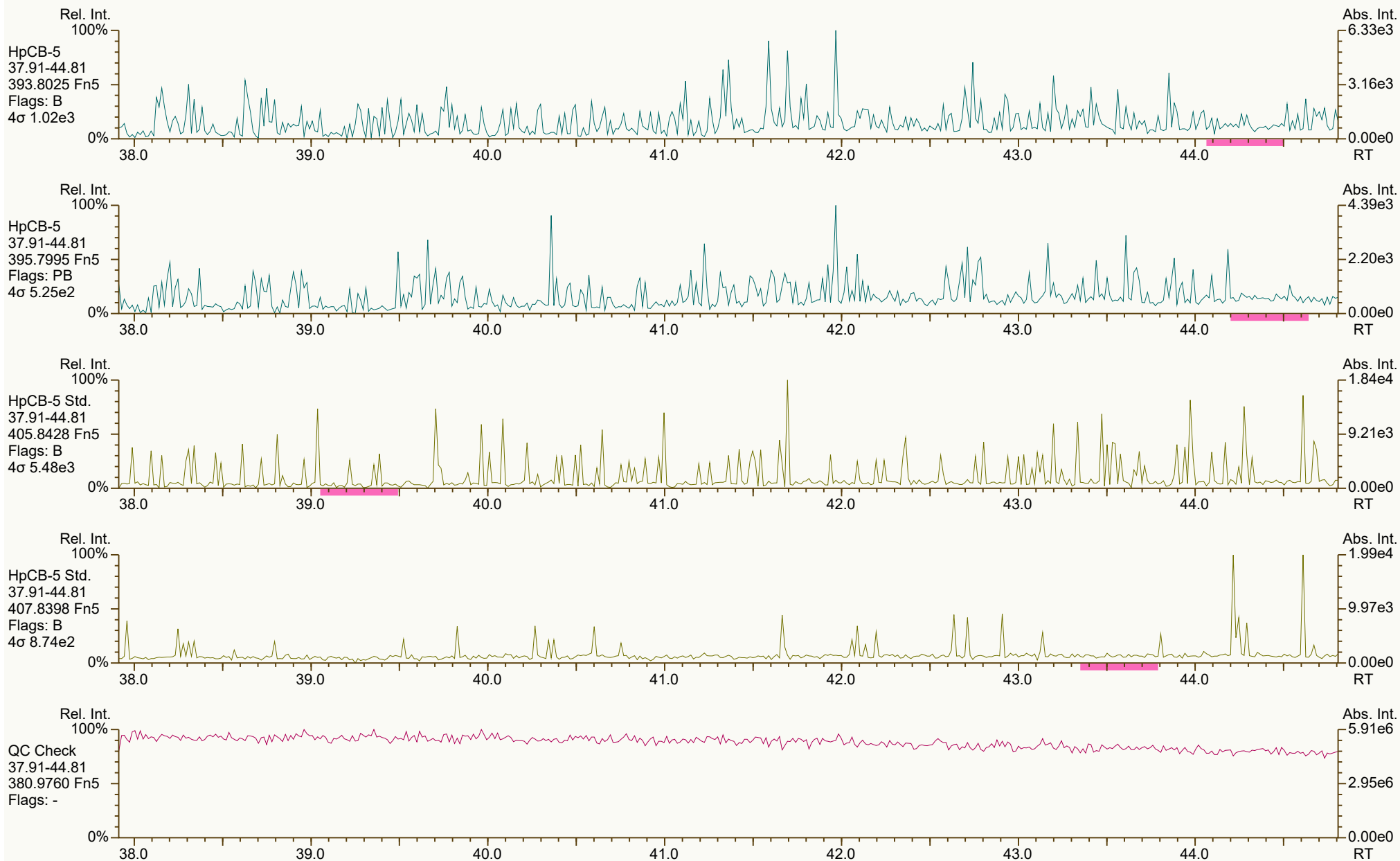
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:12 Page 15 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:12 Page 16 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:12 Page 17 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:12 Page 18 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
VSIR EI+ Expt: pcb-2016 GC: pcb90_FI Vial: 2

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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:12 Page 19 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
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Peak annotation: Areas, Centroids
PKD: 04-Sep-2024 15:03 Printed: 04-Sep-2024 15:12 Page 20 of 21

SGS ID: SB_240903_PCB_SG
Instr: [ILM] AutoSpec-Ultima MM4

Sample ID: Nonane
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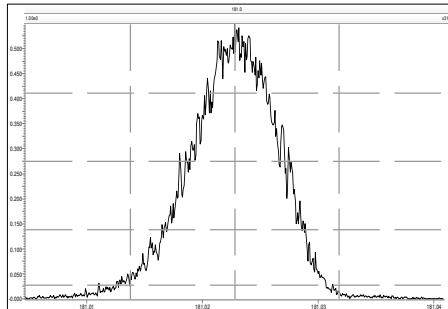


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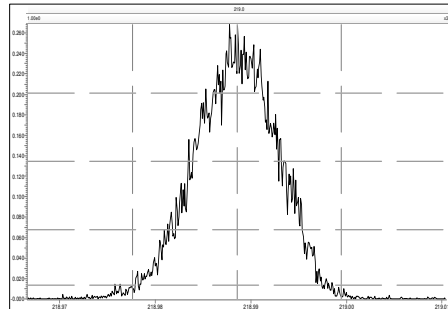
Peak annotation: Areas, Centroids
Revised: 04-Sep-2024 15:03 (RAB) Printed: 04-Sep-2024 15:12 Page 21 of 21

Printed: Wednesday, September 04, 2024 00:02:50 Eastern Daylight Time

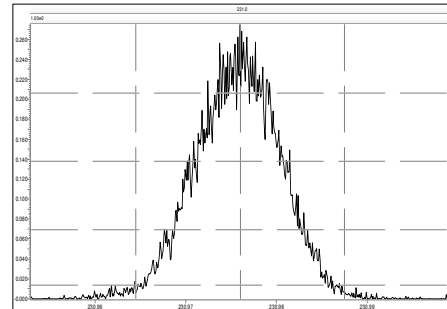
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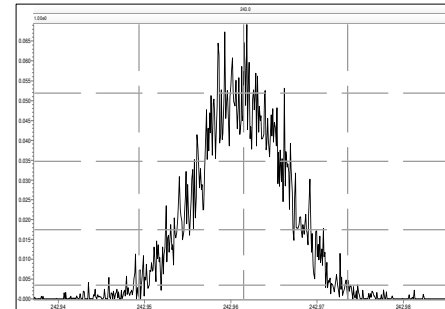
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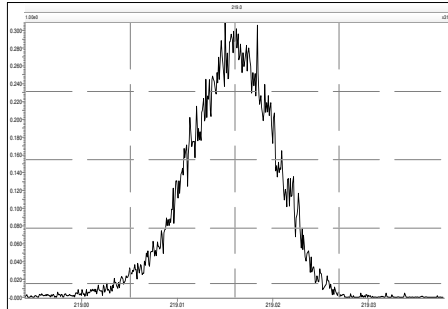
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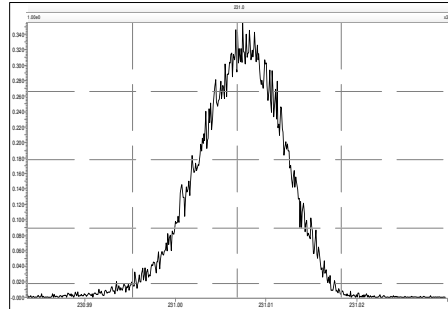
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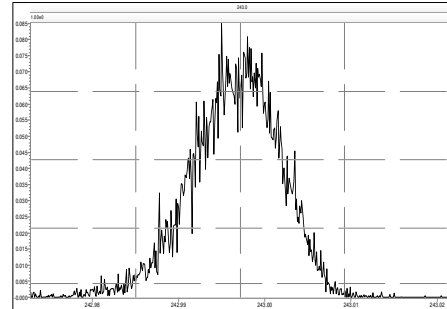
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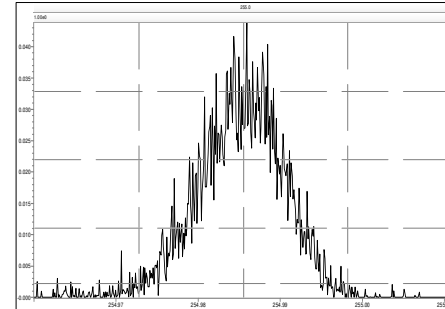
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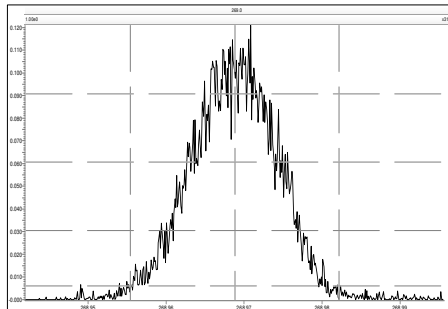
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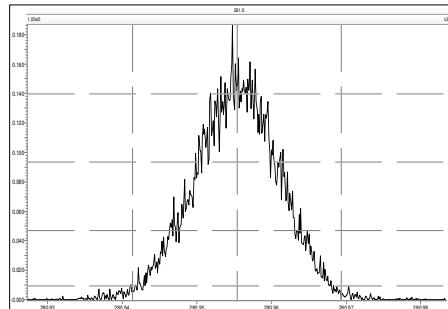
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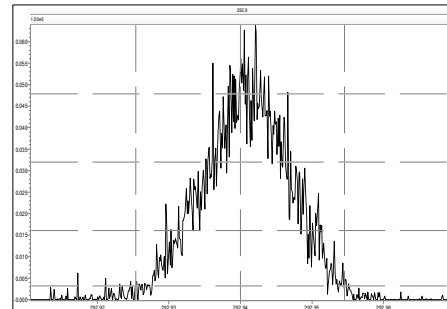
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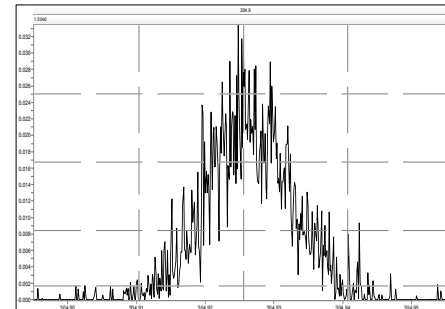
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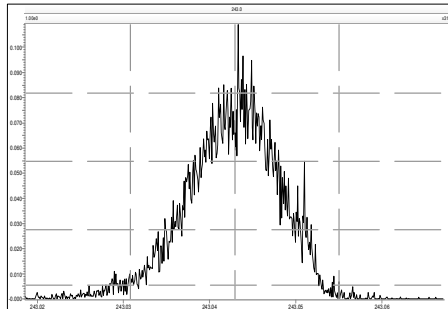


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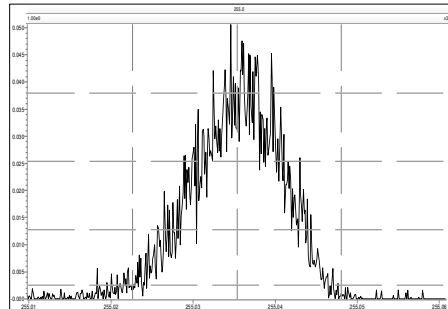


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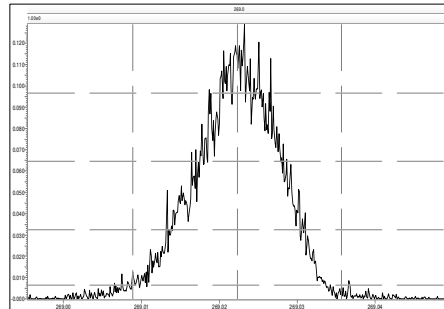
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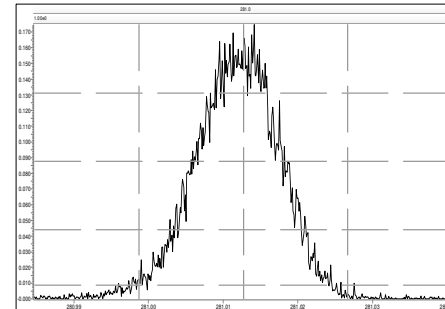
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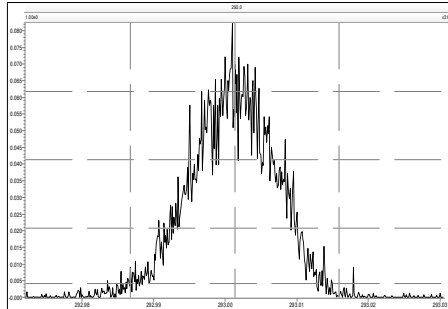
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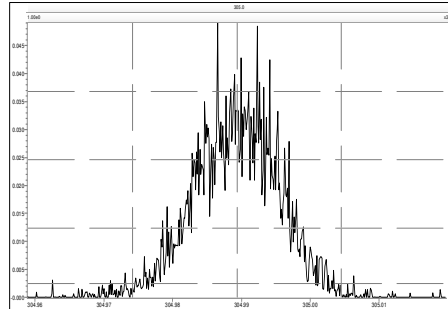
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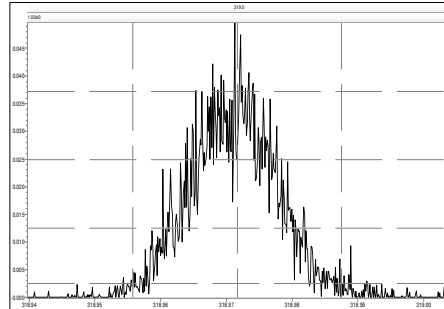
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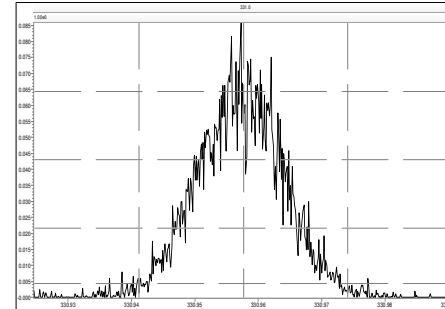
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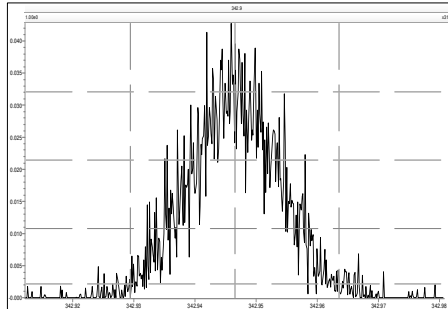
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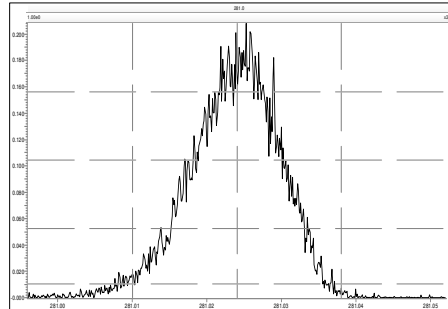
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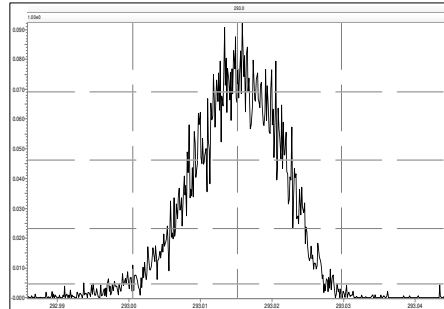
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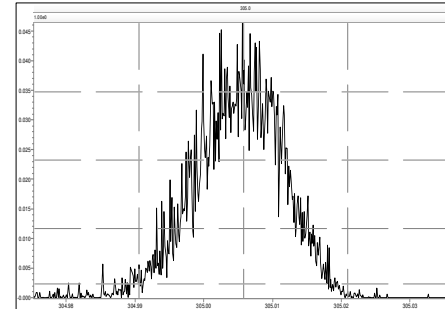
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M 292.9824 R 11061

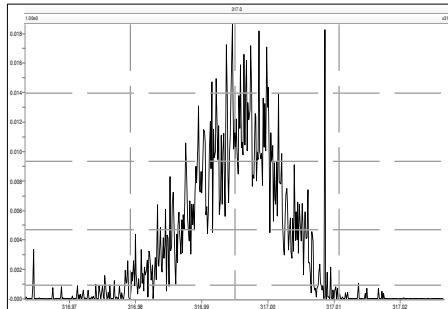


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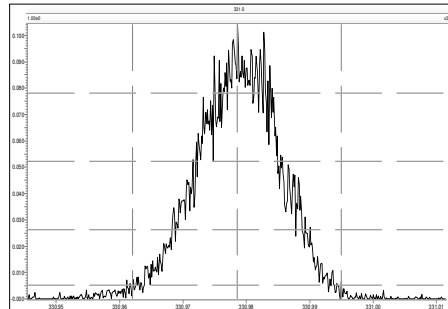


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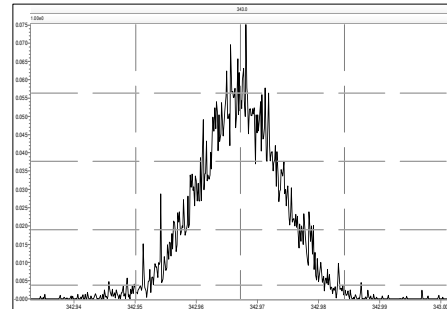
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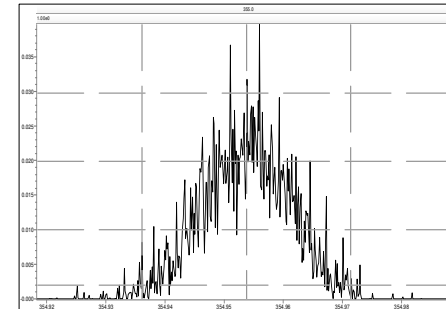
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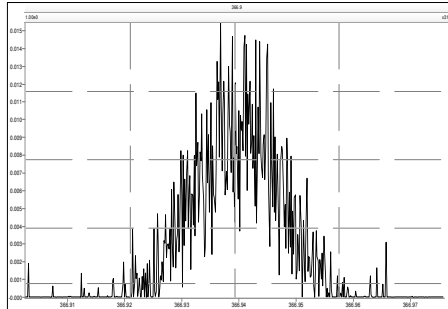
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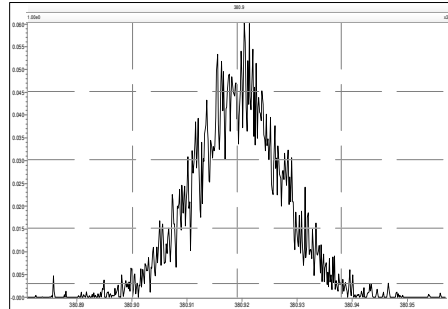
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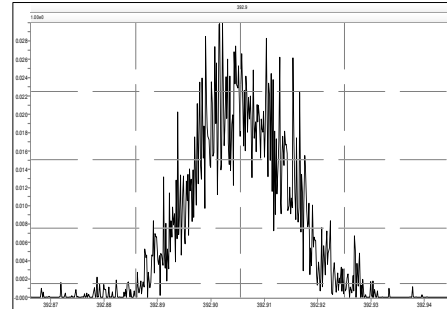
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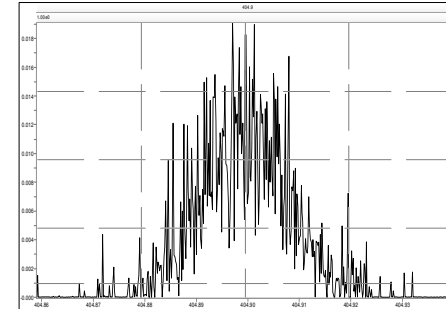
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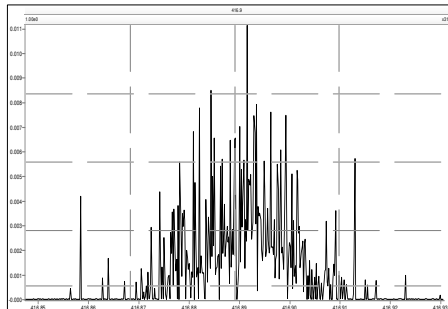
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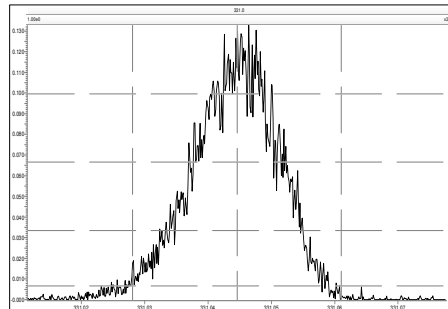
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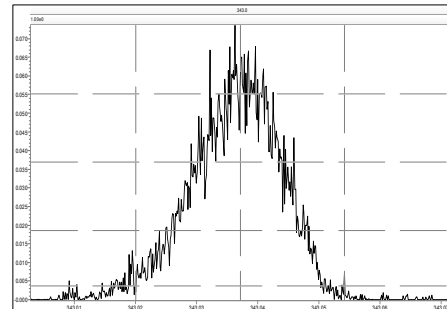
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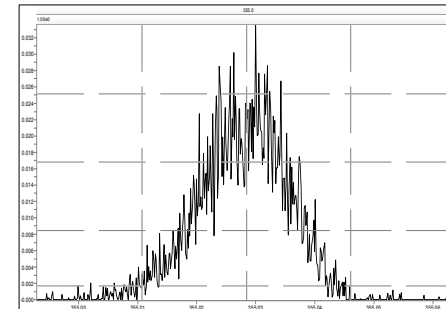
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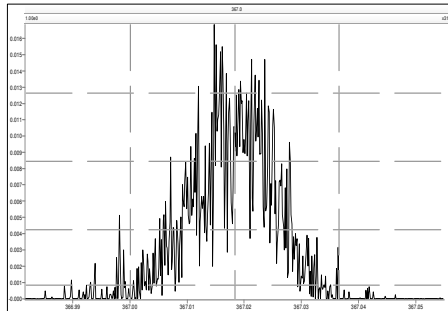
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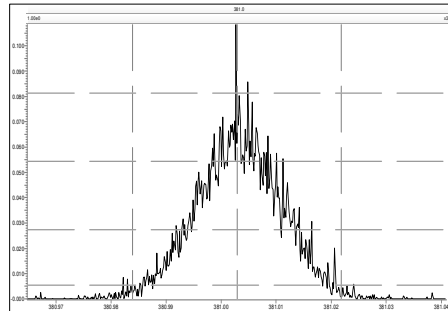
Insufficient PFK to accurately assess resolution of low intensity masses. CL 04Sep24

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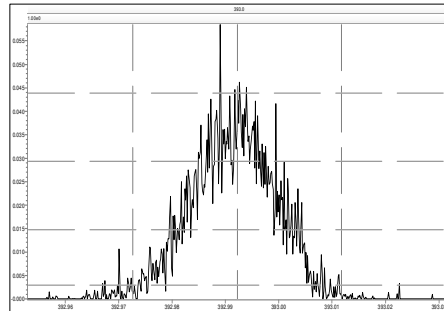
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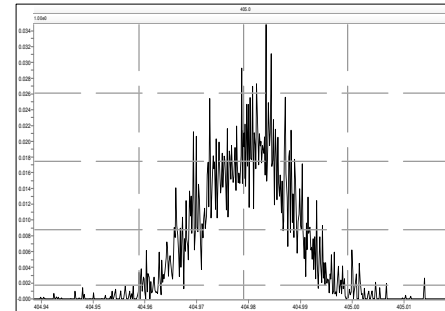
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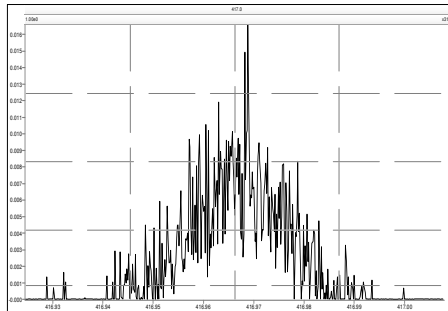
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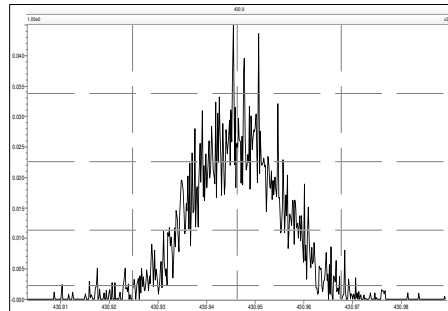
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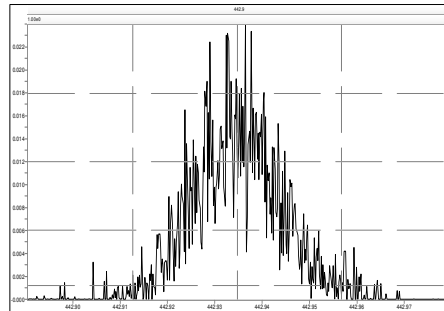
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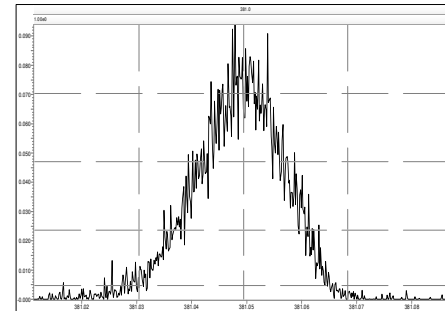
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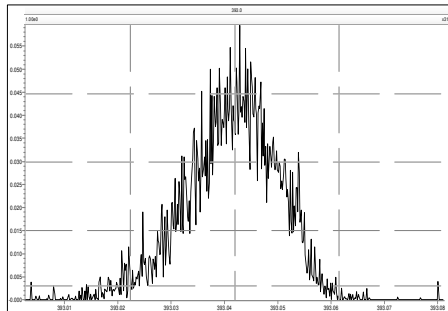
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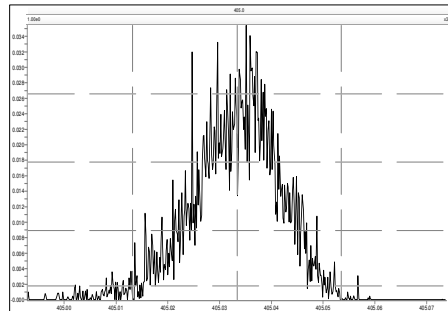
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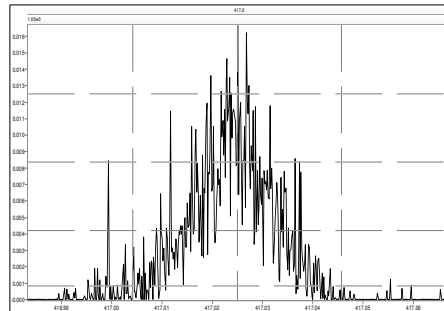
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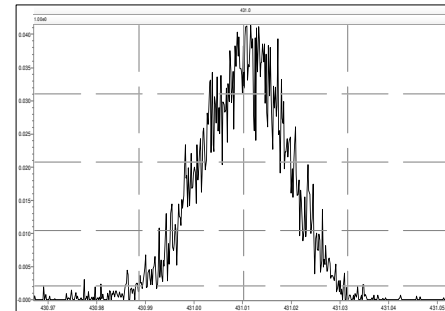
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M 416.9760 R 14935

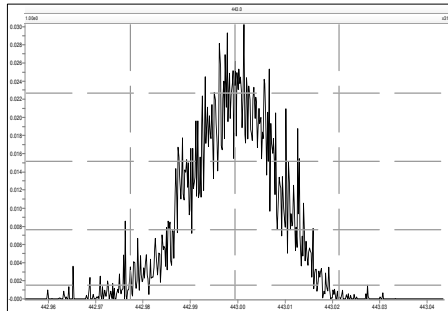


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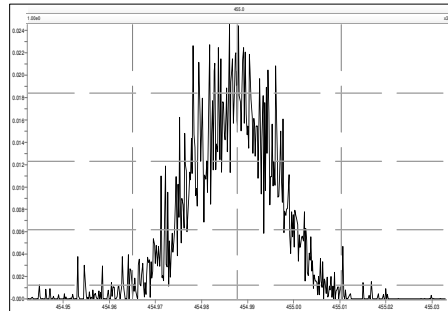


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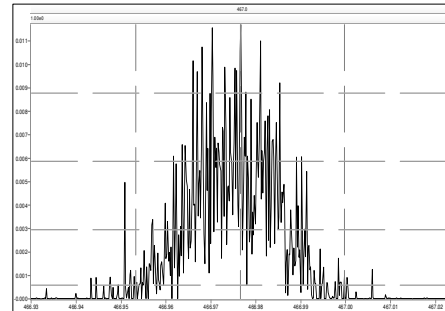
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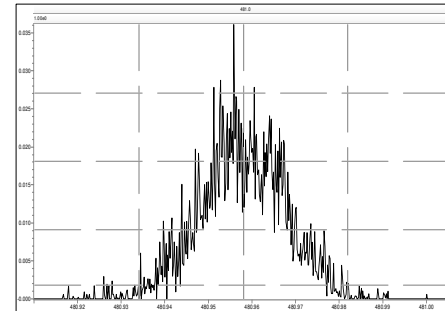
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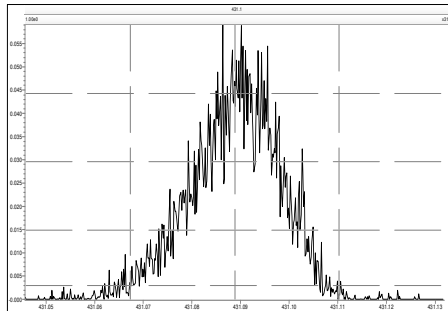
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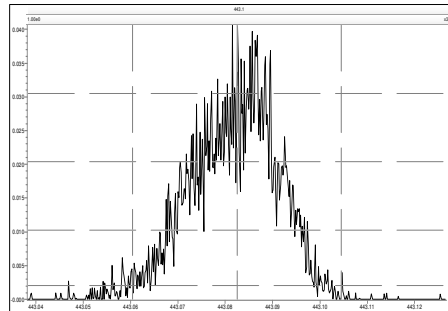
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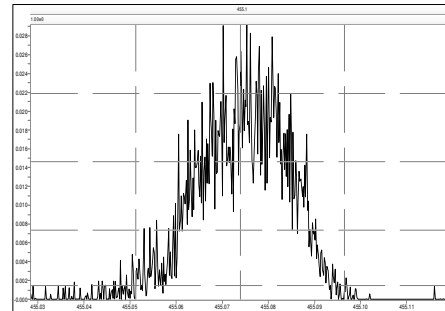
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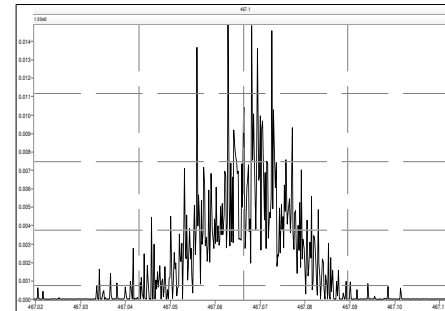
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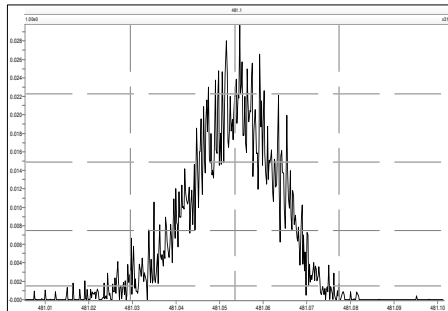
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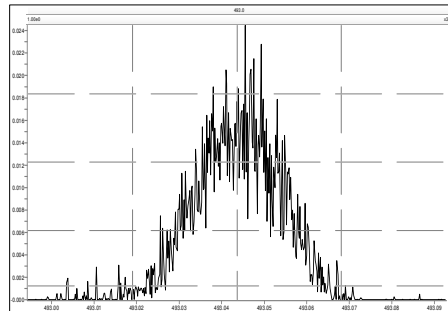
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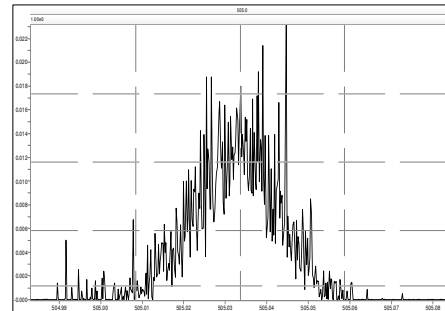
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M 492.9696 R 13187

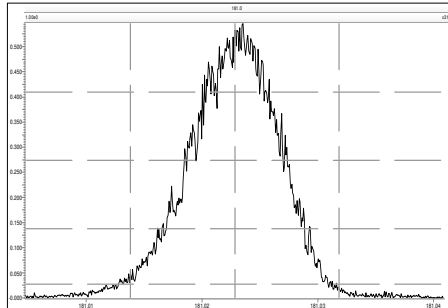


M 504.9696 R 13496

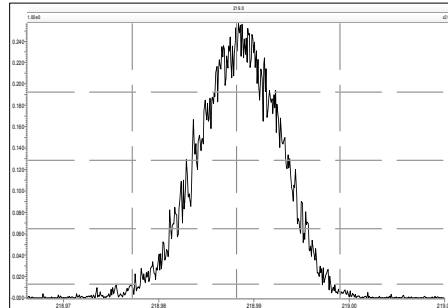


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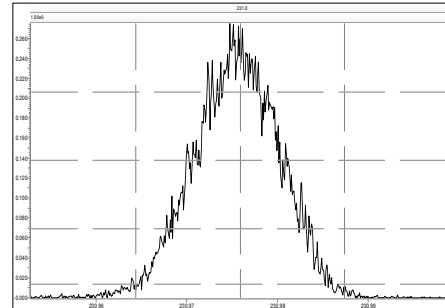
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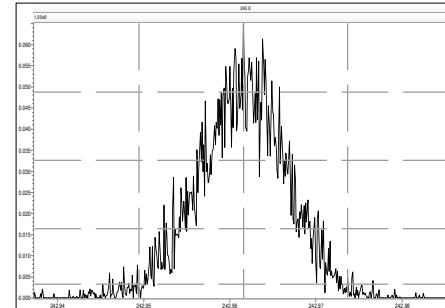
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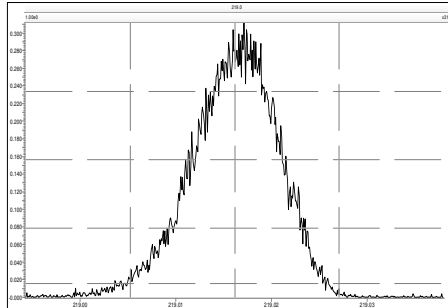
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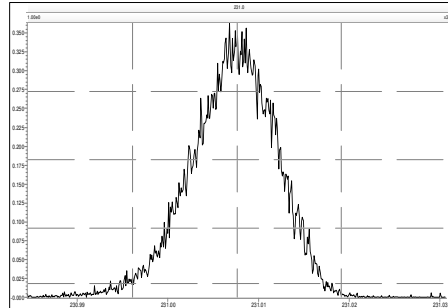
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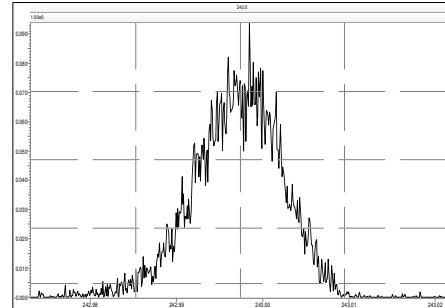
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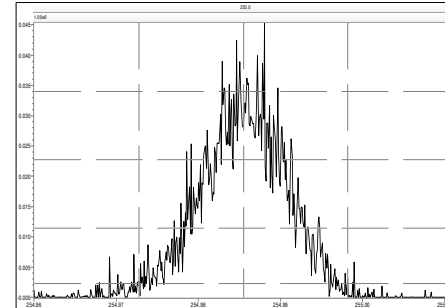
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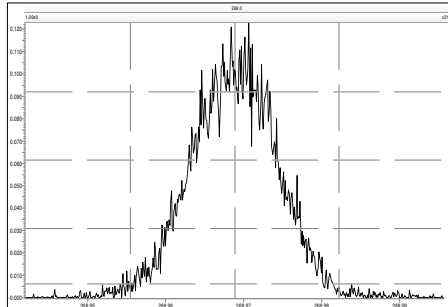
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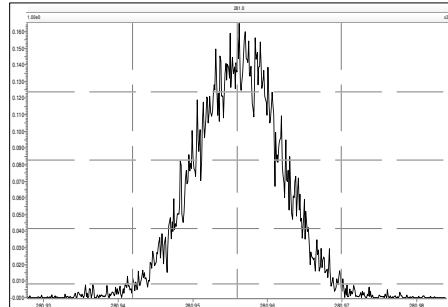
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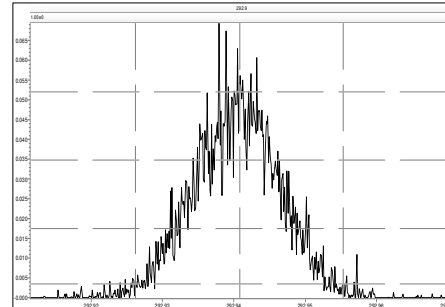
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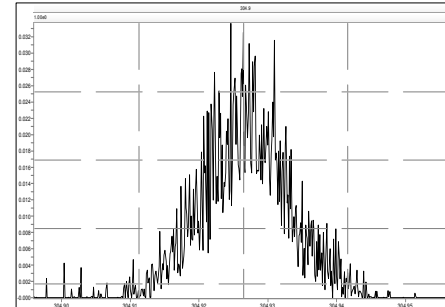
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M 292.9824 R 12140

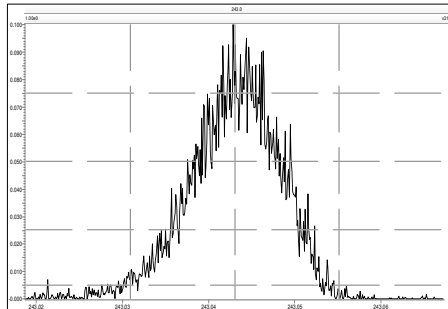


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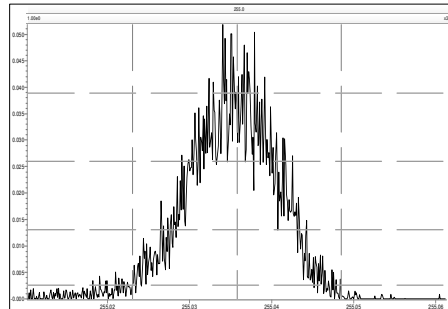


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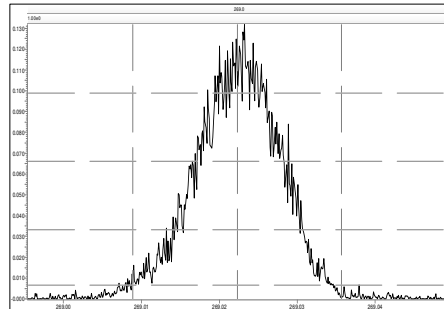
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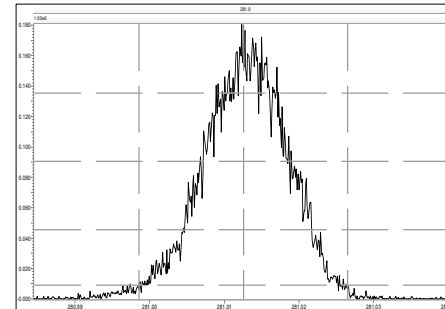
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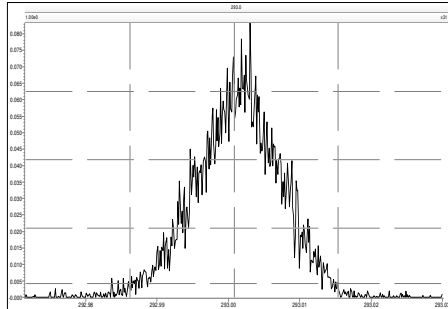
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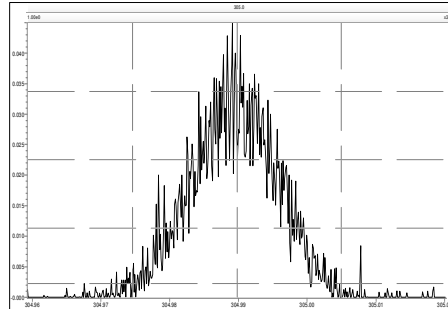
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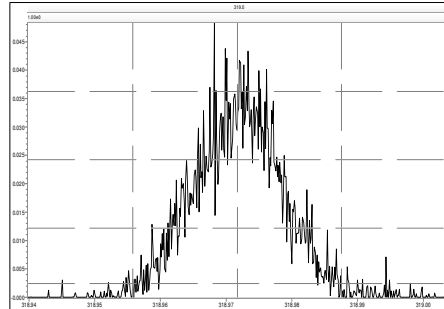
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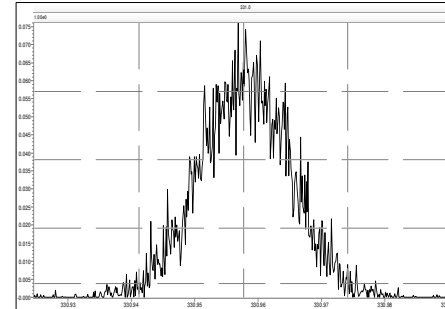
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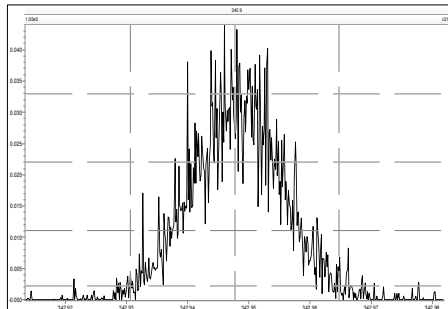
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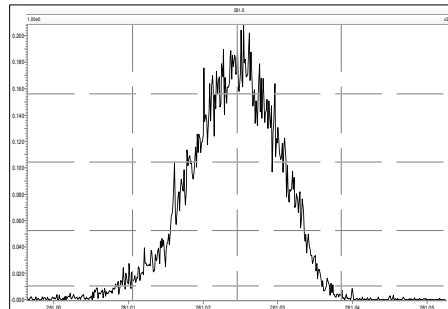
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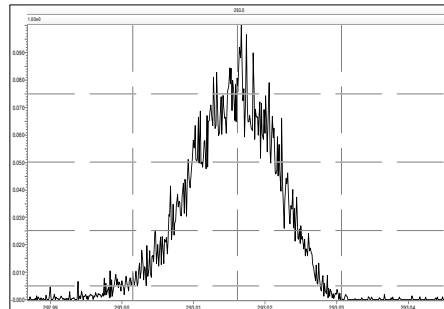
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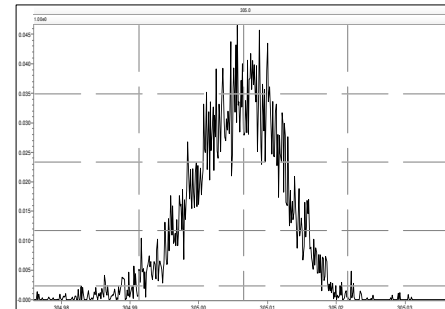
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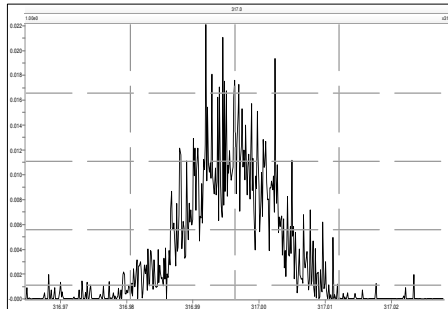


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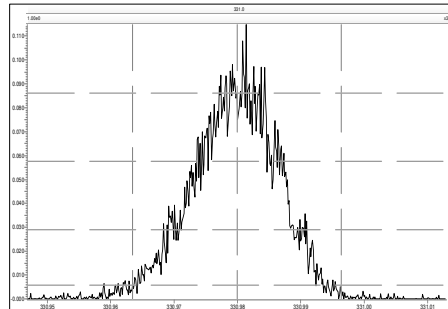


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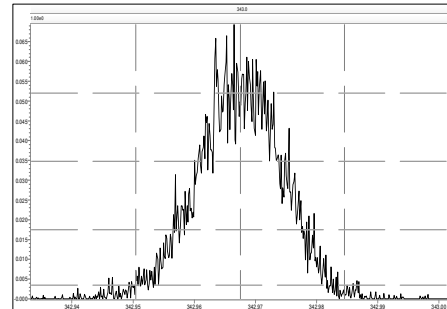
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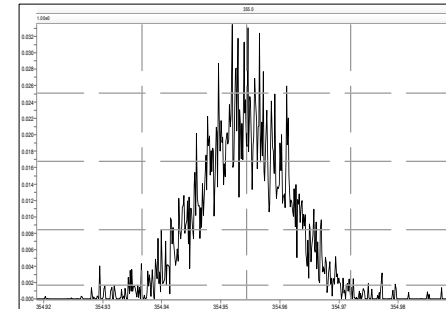
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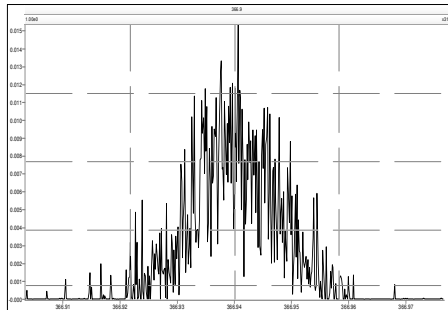
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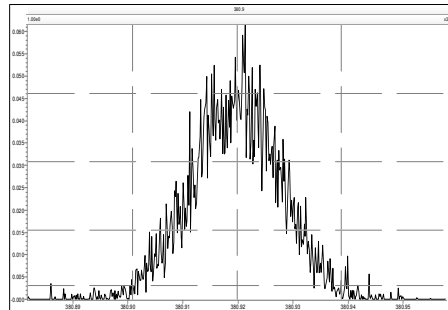
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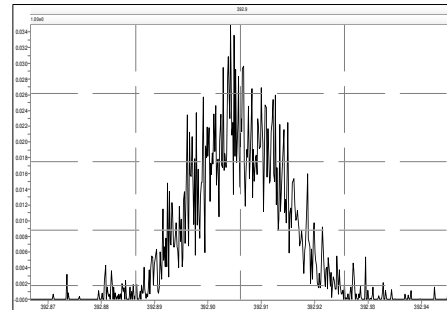
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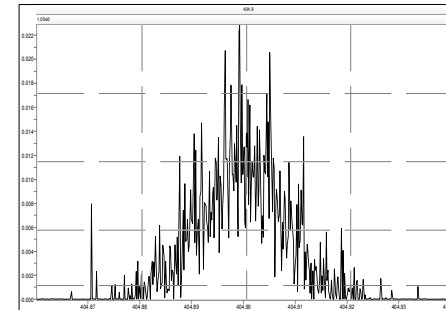
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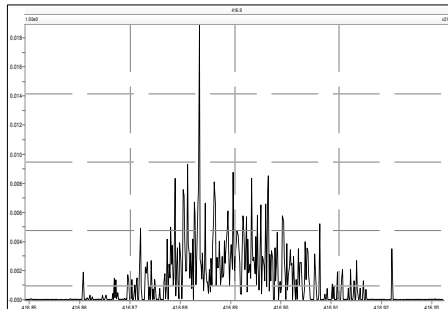
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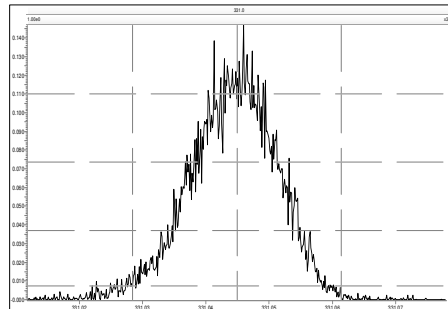
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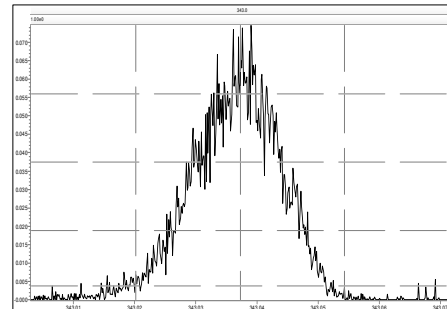
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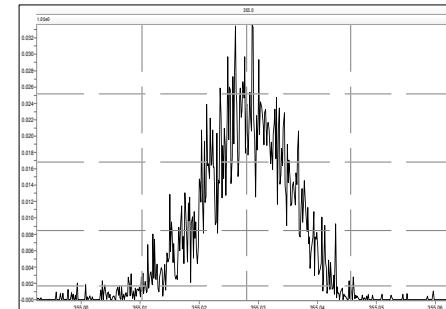
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M 342.9792 R 11186



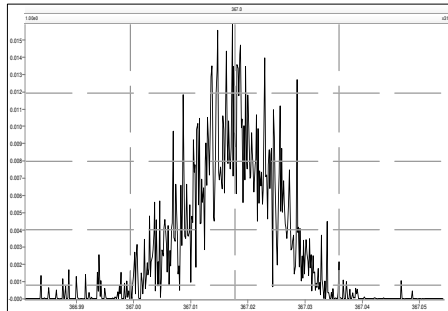
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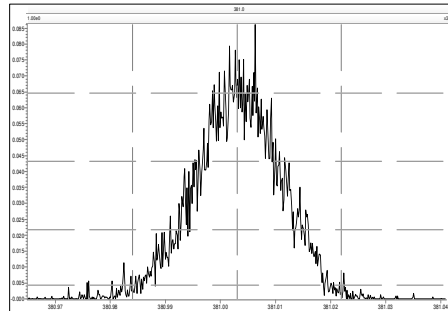
Insufficient PFK to accurately assess resolution of low intensity masses. CL 04Sep24

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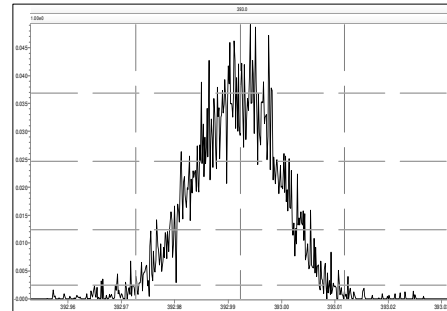
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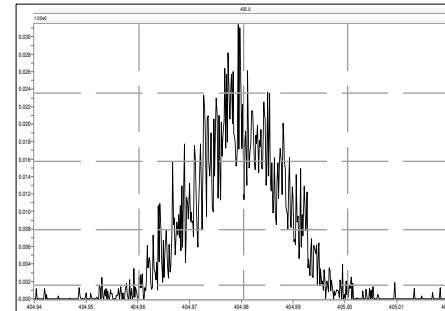
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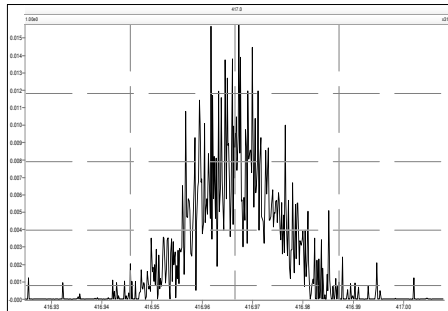
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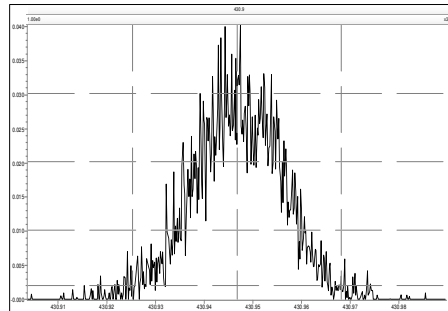
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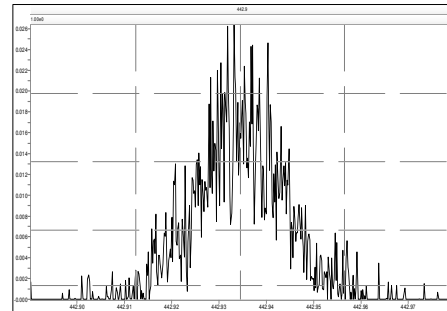
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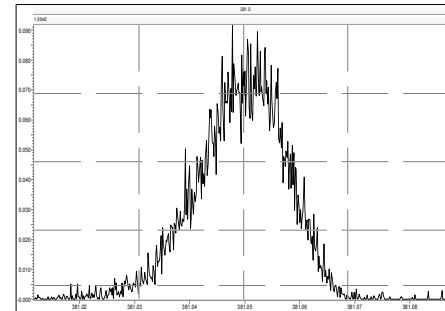
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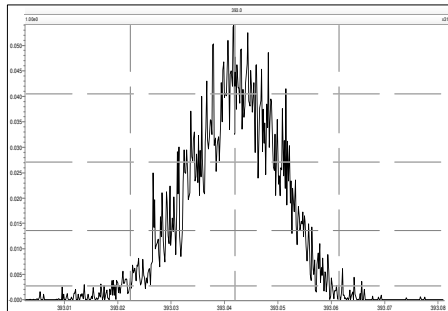
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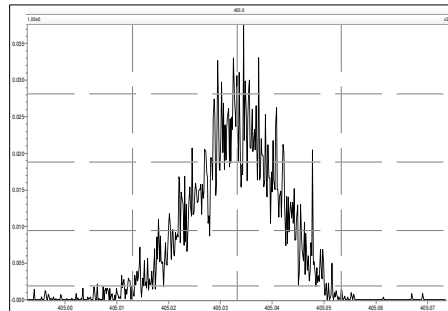
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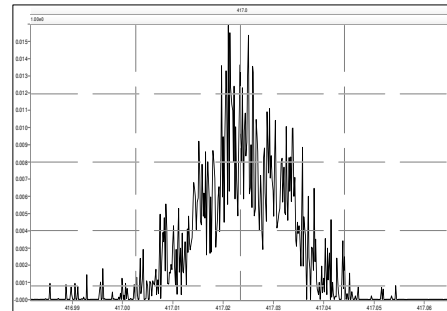
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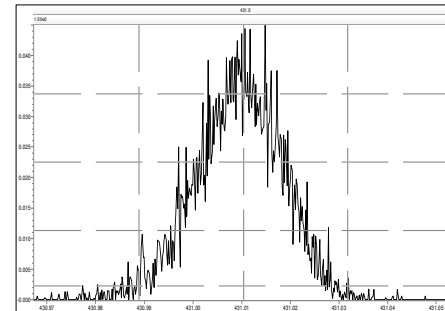
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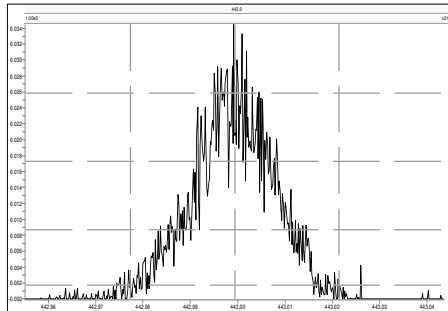


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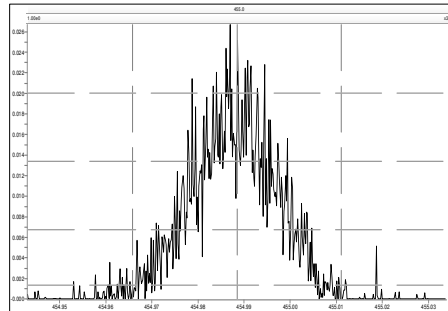


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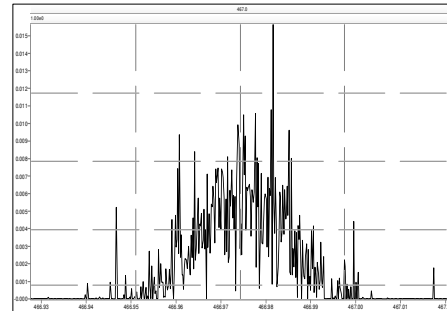
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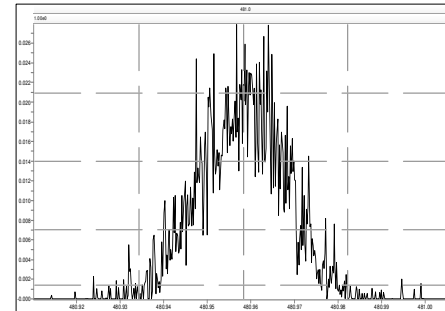
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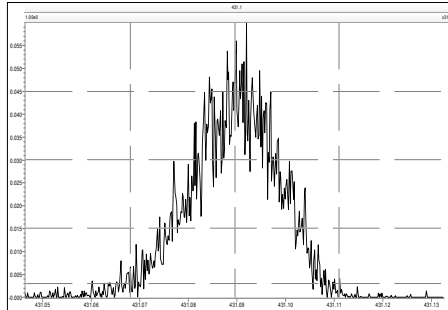
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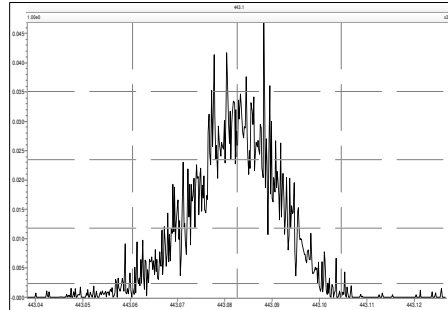
M 480.9696 R 13454



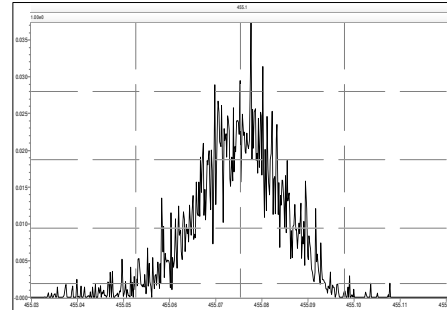
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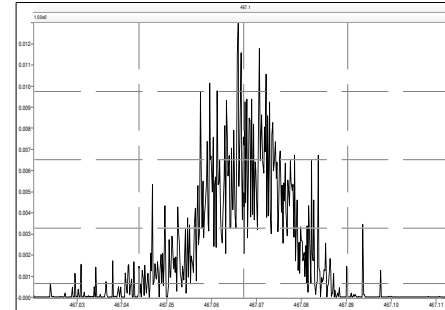
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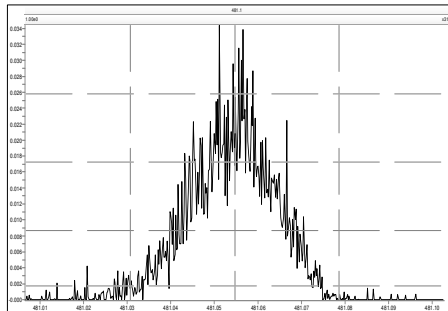
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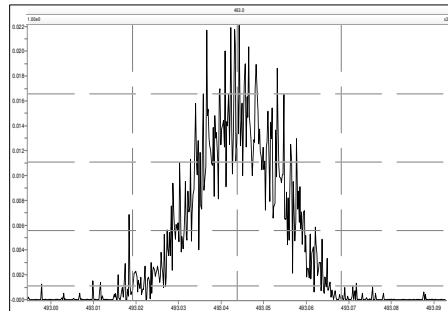
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M 480.9696 R 11938



M 492.9696 R 13459



M 504.9696 R 13903

