

# All4, Inc.

2393 Kimberton Road  
Kimberton, PA 19442

## Coke Oven ICR Sampling Event #01

US Steel Corp - Clairton Works ICR

Project: 00701-0002.00

## Analytical Report (2022EE101R)

### *EPA Method 325B*

1,3-Butadiene

Benzene

Ethylbenzene

m/p-Xylene

o-Xylene

Toluene



### Enthalpy Analytical, LLC

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I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF) and contains 88 pages.

Report Issued: 12/14/2022



# Summary of Results

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE101-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

### Summary

| Sample Code           | Tube ID | 1,3-Butadiene<br>(ug/m <sup>3</sup> ) | Flag  | Benzene<br>(ug/m <sup>3</sup> ) | Flag | Ethylbenzene<br>(ug/m <sup>3</sup> ) | Flag  | m-/p-Xylenes<br>(ug/m <sup>3</sup> ) | Flag  | o-Xylene<br>(ug/m <sup>3</sup> ) | Flag  | Toluene<br>(ug/m <sup>3</sup> ) | Flag |
|-----------------------|---------|---------------------------------------|-------|---------------------------------|------|--------------------------------------|-------|--------------------------------------|-------|----------------------------------|-------|---------------------------------|------|
| USSCL-PT01-S-20221011 | C01421  |                                       | ND    | 96.2                            | E    |                                      | ND    | 0.721                                |       |                                  | ND    | 5.35                            |      |
| USSCL-PT02-S-20221011 | C24262  |                                       | ND    | 20.7                            |      |                                      | ND    | 0.754                                |       |                                  | ND    | 3.38                            |      |
| USSCL-PT03-S-20221011 | C01399  |                                       | ND    | 14.1                            |      |                                      | ND    | 0.653                                |       |                                  | ND    | 4.99                            |      |
| USSCL-PT04-S-20221011 | B15349  |                                       | ND,Fe | 7.61                            | Fe   |                                      | ND,Fe |                                      | ND,Fe |                                  | ND,Fe | 3.27                            | Fe   |
| USSCL-PT05-S-20221011 | C20430  |                                       | ND    | 8.90                            |      |                                      | ND    |                                      | ND    |                                  | ND    | 3.73                            |      |
| USSCL-PT06-S-20221011 | B48097  |                                       | ND    | 4.82                            |      |                                      | ND    |                                      | ND    |                                  | ND    | 5.16                            |      |
| USSCL-PT07-S-20221011 | B12168  |                                       | ND    | 1.69                            |      |                                      | ND    |                                      | ND    |                                  | ND    | 10.9                            |      |
| USSCL-PT08-S-20221011 | B33041  |                                       | ND    | 2.79                            |      |                                      | ND    |                                      | ND    |                                  | ND    | 11.4                            |      |
| USSCL-PT09-S-20221011 | C17117  |                                       | ND    | 10.5                            |      |                                      | ND    | 1.34                                 |       |                                  | ND    | 8.43                            |      |
| USSCL-PT10-S-20221011 | B42372  |                                       | ND    | 47.4                            |      |                                      | ND    | 1.54                                 |       |                                  | ND    | 12.9                            |      |
| USSCL-PT10-D-20221011 | C20491  |                                       | ND    | 47.8                            |      |                                      | ND    | 1.55                                 |       |                                  | ND    | 12.1                            |      |
| USSCL-PT10-B-20221011 | C24164  |                                       | ND    |                                 | ND   |                                      | ND    |                                      | ND    |                                  | ND    |                                 | ND   |
| USSCL-PT11-S-20221011 | B15307  |                                       | ND    | 48.9                            | E    |                                      | ND    | 1.39                                 |       |                                  | ND    | 18.9                            |      |
| USSCL-PT12-S-20221011 | C24187  |                                       | ND    | 17.8                            |      |                                      | ND    | 1.46                                 |       |                                  | ND    | 5.20                            |      |

E: Concentration exceeds calibration range

Fe: Field Error. See report narrative

ND: The analyte was not present above the Method Detection Limit

# Results

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE101-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

### 1,3-Butadiene

| Sample Code           | Tube ID | Conc<br>(ug/m <sup>3</sup> ) | Conc<br>(ppbv) | Calc<br>Amt<br>(ng) | Temp<br>(°F) | Uptake<br>Rate<br>(mL/min) | Sample<br>Time<br>(min) | LOD<br>(ug/m <sup>3</sup> ) | LOQ<br>(ug/m <sup>3</sup> ) | LOD<br>(ppbv) | LOQ<br>(ppbv) | Flags |
|-----------------------|---------|------------------------------|----------------|---------------------|--------------|----------------------------|-------------------------|-----------------------------|-----------------------------|---------------|---------------|-------|
| USSCL-PT01-S-20221011 | C01421  |                              |                |                     | 51.4         | 0.439                      | 20,194                  | 0.599                       | 0.599                       | 0.271         | 0.271         | ND    |
| USSCL-PT02-S-20221011 | C24262  |                              |                |                     | 51.4         | 0.439                      | 20,190                  | 0.599                       | 0.599                       | 0.271         | 0.271         | ND    |
| USSCL-PT03-S-20221011 | C01399  |                              |                |                     | 51.4         | 0.439                      | 20,190                  | 0.599                       | 0.599                       | 0.271         | 0.271         | ND    |
| USSCL-PT04-S-20221011 | B15349  |                              |                |                     | 51.4         | 0.439                      | 20,205                  | 0.598                       | 0.598                       | 0.271         | 0.271         | ND,Fe |
| USSCL-PT05-S-20221011 | C20430  |                              |                |                     | 51.4         | 0.439                      | 20,207                  | 0.598                       | 0.598                       | 0.271         | 0.271         | ND    |
| USSCL-PT06-S-20221011 | B48097  |                              |                |                     | 51.4         | 0.439                      | 20,206                  | 0.598                       | 0.598                       | 0.271         | 0.271         | ND    |
| USSCL-PT07-S-20221011 | B12168  |                              |                |                     | 51.4         | 0.439                      | 20,208                  | 0.598                       | 0.598                       | 0.271         | 0.271         | ND    |
| USSCL-PT08-S-20221011 | B33041  |                              |                |                     | 51.4         | 0.439                      | 20,211                  | 0.598                       | 0.598                       | 0.271         | 0.271         | ND    |
| USSCL-PT09-S-20221011 | C17117  |                              |                |                     | 51.4         | 0.439                      | 20,211                  | 0.598                       | 0.598                       | 0.271         | 0.271         | ND    |
| USSCL-PT10-S-20221011 | B42372  |                              |                |                     | 51.4         | 0.439                      | 20,212                  | 0.598                       | 0.598                       | 0.271         | 0.271         | ND    |
| USSCL-PT10-D-20221011 | C20491  |                              |                |                     | 51.4         | 0.439                      | 20,213                  | 0.598                       | 0.598                       | 0.271         | 0.271         | ND    |
| USSCL-PT10-B-20221011 | C24164  |                              |                |                     | 51.4         | 0.439                      | 20,212                  | 0.598                       | 0.598                       | 0.271         | 0.271         | ND    |
| USSCL-PT11-S-20221011 | B15307  |                              |                |                     | 51.4         | 0.439                      | 20,212                  | 0.598                       | 0.598                       | 0.271         | 0.271         | ND    |
| USSCL-PT12-S-20221011 | C24187  |                              |                |                     | 51.4         | 0.439                      | 20,213                  | 0.598                       | 0.598                       | 0.271         | 0.271         | ND    |

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE101-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

### Benzene

| Sample Code           | Tube ID | Conc<br>(ug/m <sup>3</sup> ) | Conc<br>(ppbv) | Calc<br>Amt<br>(ng) | Temp<br>(°F) | Uptake<br>Rate<br>(mL/min) | Sample<br>Time<br>(min) | LOD<br>(ug/m <sup>3</sup> ) | LOQ<br>(ug/m <sup>3</sup> ) | LOD<br>(ppbv) | LOQ<br>(ppbv) | Flags |
|-----------------------|---------|------------------------------|----------------|---------------------|--------------|----------------------------|-------------------------|-----------------------------|-----------------------------|---------------|---------------|-------|
| USSCL-PT01-S-20221011 | C01421  | 96.2                         | 30.1           | 1,271               | 51.4         | 0.654                      | 20,194                  | 0.189                       | 0.403                       | 0.0593        | 0.126         | E     |
| USSCL-PT02-S-20221011 | C24262  | 20.7                         | 6.47           | 273                 | 51.4         | 0.654                      | 20,190                  | 0.189                       | 0.403                       | 0.0593        | 0.126         |       |
| USSCL-PT03-S-20221011 | C01399  | 14.1                         | 4.42           | 186                 | 51.4         | 0.654                      | 20,190                  | 0.189                       | 0.403                       | 0.0593        | 0.126         |       |
| USSCL-PT04-S-20221011 | B15349  | 7.61                         | 2.38           | 101                 | 51.4         | 0.654                      | 20,205                  | 0.189                       | 0.403                       | 0.0593        | 0.126         | Fe    |
| USSCL-PT05-S-20221011 | C20430  | 8.90                         | 2.79           | 118                 | 51.4         | 0.654                      | 20,207                  | 0.189                       | 0.403                       | 0.0593        | 0.126         |       |
| USSCL-PT06-S-20221011 | B48097  | 4.82                         | 1.51           | 63.7                | 51.4         | 0.654                      | 20,206                  | 0.189                       | 0.403                       | 0.0593        | 0.126         |       |
| USSCL-PT07-S-20221011 | B12168  | 1.69                         | 0.530          | 22.3                | 51.4         | 0.654                      | 20,208                  | 0.189                       | 0.402                       | 0.0593        | 0.126         |       |
| USSCL-PT08-S-20221011 | B33041  | 2.79                         | 0.875          | 36.9                | 51.4         | 0.654                      | 20,211                  | 0.189                       | 0.402                       | 0.0593        | 0.126         |       |
| USSCL-PT09-S-20221011 | C17117  | 10.5                         | 3.29           | 139                 | 51.4         | 0.654                      | 20,211                  | 0.189                       | 0.402                       | 0.0593        | 0.126         |       |
| USSCL-PT10-S-20221011 | B42372  | 47.4                         | 14.8           | 626                 | 51.4         | 0.654                      | 20,212                  | 0.189                       | 0.402                       | 0.0593        | 0.126         |       |
| USSCL-PT10-D-20221011 | C20491  | 47.8                         | 15.0           | 632                 | 51.4         | 0.654                      | 20,213                  | 0.189                       | 0.402                       | 0.0593        | 0.126         |       |
| USSCL-PT10-B-20221011 | C24164  |                              |                |                     | 51.4         | 0.654                      | 20,212                  | 0.189                       | 0.402                       | 0.0593        | 0.126         | ND    |
| USSCL-PT11-S-20221011 | B15307  | 48.9                         | 15.3           | 647                 | 51.4         | 0.654                      | 20,212                  | 0.189                       | 0.402                       | 0.0593        | 0.126         | E     |
| USSCL-PT12-S-20221011 | C24187  | 17.8                         | 5.58           | 235                 | 51.4         | 0.654                      | 20,213                  | 0.189                       | 0.402                       | 0.0593        | 0.126         |       |

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE101-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

### Ethylbenzene

| Sample Code           | Tube ID | Conc<br>(ug/m <sup>3</sup> ) | Conc<br>(ppbv) | Calc<br>Amt<br>(ng) | Temp<br>(°F) | Uptake<br>Rate<br>(mL/min) | Sample<br>Time<br>(min) | LOD<br>(ug/m <sup>3</sup> ) | LOQ<br>(ug/m <sup>3</sup> ) | LOD<br>(ppbv) | LOQ<br>(ppbv) | Flags |
|-----------------------|---------|------------------------------|----------------|---------------------|--------------|----------------------------|-------------------------|-----------------------------|-----------------------------|---------------|---------------|-------|
| USSCL-PT01-S-20221011 | C01421  |                              |                |                     | 51.4         | 0.449                      | 20,194                  | 0.603                       | 0.603                       | 0.139         | 0.139         | ND    |
| USSCL-PT02-S-20221011 | C24262  |                              |                |                     | 51.4         | 0.449                      | 20,190                  | 0.603                       | 0.603                       | 0.139         | 0.139         | ND    |
| USSCL-PT03-S-20221011 | C01399  |                              |                |                     | 51.4         | 0.449                      | 20,190                  | 0.603                       | 0.603                       | 0.139         | 0.139         | ND    |
| USSCL-PT04-S-20221011 | B15349  |                              |                |                     | 51.4         | 0.449                      | 20,205                  | 0.603                       | 0.603                       | 0.139         | 0.139         | ND,Fe |
| USSCL-PT05-S-20221011 | C20430  |                              |                |                     | 51.4         | 0.449                      | 20,207                  | 0.603                       | 0.603                       | 0.139         | 0.139         | ND    |
| USSCL-PT06-S-20221011 | B48097  |                              |                |                     | 51.4         | 0.449                      | 20,206                  | 0.603                       | 0.603                       | 0.139         | 0.139         | ND    |
| USSCL-PT07-S-20221011 | B12168  |                              |                |                     | 51.4         | 0.449                      | 20,208                  | 0.603                       | 0.603                       | 0.139         | 0.139         | ND    |
| USSCL-PT08-S-20221011 | B33041  |                              |                |                     | 51.4         | 0.449                      | 20,211                  | 0.603                       | 0.603                       | 0.139         | 0.139         | ND    |
| USSCL-PT09-S-20221011 | C17117  |                              |                |                     | 51.4         | 0.449                      | 20,211                  | 0.603                       | 0.603                       | 0.139         | 0.139         | ND    |
| USSCL-PT10-S-20221011 | B42372  |                              |                |                     | 51.4         | 0.449                      | 20,212                  | 0.602                       | 0.602                       | 0.139         | 0.139         | ND    |
| USSCL-PT10-D-20221011 | C20491  |                              |                |                     | 51.4         | 0.449                      | 20,213                  | 0.602                       | 0.602                       | 0.139         | 0.139         | ND    |
| USSCL-PT10-B-20221011 | C24164  |                              |                |                     | 51.4         | 0.449                      | 20,212                  | 0.602                       | 0.602                       | 0.139         | 0.139         | ND    |
| USSCL-PT11-S-20221011 | B15307  |                              |                |                     | 51.4         | 0.449                      | 20,212                  | 0.602                       | 0.602                       | 0.139         | 0.139         | ND    |
| USSCL-PT12-S-20221011 | C24187  |                              |                |                     | 51.4         | 0.449                      | 20,213                  | 0.602                       | 0.602                       | 0.139         | 0.139         | ND    |



## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE101-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

### m-/p-Xylenes

| Sample Code           | Tube ID | Conc<br>(ug/m <sup>3</sup> ) | Conc<br>(ppbv) | Calc<br>Amt<br>(ng) | Temp<br>(°F) | Uptake<br>Rate<br>(mL/min) | Sample<br>Time<br>(min) | LOD<br>(ug/m <sup>3</sup> ) | LOQ<br>(ug/m <sup>3</sup> ) | LOD<br>(ppbv) | LOQ<br>(ppbv) | Flags |
|-----------------------|---------|------------------------------|----------------|---------------------|--------------|----------------------------|-------------------------|-----------------------------|-----------------------------|---------------|---------------|-------|
| USSCL-PT01-S-20221011 | C01421  | 0.721                        | 0.166          | 6.53                | 51.4         | 0.449                      | 20,194                  | 0.607                       | 0.607                       | 0.140         | 0.140         |       |
| USSCL-PT02-S-20221011 | C24262  | 0.754                        | 0.174          | 6.83                | 51.4         | 0.449                      | 20,190                  | 0.607                       | 0.607                       | 0.140         | 0.140         |       |
| USSCL-PT03-S-20221011 | C01399  | 0.653                        | 0.150          | 5.91                | 51.4         | 0.449                      | 20,190                  | 0.607                       | 0.607                       | 0.140         | 0.140         |       |
| USSCL-PT04-S-20221011 | B15349  |                              |                |                     | 51.4         | 0.449                      | 20,205                  | 0.607                       | 0.607                       | 0.140         | 0.140         | ND,Fe |
| USSCL-PT05-S-20221011 | C20430  |                              |                |                     | 51.4         | 0.449                      | 20,207                  | 0.606                       | 0.606                       | 0.140         | 0.140         | ND    |
| USSCL-PT06-S-20221011 | B48097  |                              |                |                     | 51.4         | 0.449                      | 20,206                  | 0.606                       | 0.606                       | 0.140         | 0.140         | ND    |
| USSCL-PT07-S-20221011 | B12168  |                              |                |                     | 51.4         | 0.449                      | 20,208                  | 0.606                       | 0.606                       | 0.140         | 0.140         | ND    |
| USSCL-PT08-S-20221011 | B33041  |                              |                |                     | 51.4         | 0.449                      | 20,211                  | 0.606                       | 0.606                       | 0.140         | 0.140         | ND    |
| USSCL-PT09-S-20221011 | C17117  | 1.34                         | 0.308          | 12.1                | 51.4         | 0.449                      | 20,211                  | 0.606                       | 0.606                       | 0.140         | 0.140         |       |
| USSCL-PT10-S-20221011 | B42372  | 1.54                         | 0.354          | 14.0                | 51.4         | 0.449                      | 20,212                  | 0.606                       | 0.606                       | 0.140         | 0.140         |       |
| USSCL-PT10-D-20221011 | C20491  | 1.55                         | 0.357          | 14.1                | 51.4         | 0.449                      | 20,213                  | 0.606                       | 0.606                       | 0.140         | 0.140         |       |
| USSCL-PT10-B-20221011 | C24164  |                              |                |                     | 51.4         | 0.449                      | 20,212                  | 0.606                       | 0.606                       | 0.140         | 0.140         | ND    |
| USSCL-PT11-S-20221011 | B15307  | 1.39                         | 0.320          | 12.6                | 51.4         | 0.449                      | 20,212                  | 0.606                       | 0.606                       | 0.140         | 0.140         |       |
| USSCL-PT12-S-20221011 | C24187  | 1.46                         | 0.337          | 13.3                | 51.4         | 0.449                      | 20,213                  | 0.606                       | 0.606                       | 0.140         | 0.140         |       |

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE101-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

### o-Xylene

| Sample Code           | Tube ID | Conc<br>(ug/m <sup>3</sup> ) | Conc<br>(ppbv) | Calc<br>Amt<br>(ng) | Temp<br>(°F) | Uptake<br>Rate<br>(mL/min) | Sample<br>Time<br>(min) | LOD<br>(ug/m <sup>3</sup> ) | LOQ<br>(ug/m <sup>3</sup> ) | LOD<br>(ppbv) | LOQ<br>(ppbv) | Flags |
|-----------------------|---------|------------------------------|----------------|---------------------|--------------|----------------------------|-------------------------|-----------------------------|-----------------------------|---------------|---------------|-------|
| USSCL-PT01-S-20221011 | C01421  |                              |                |                     | 51.4         | 0.449                      | 20,194                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND    |
| USSCL-PT02-S-20221011 | C24262  |                              |                |                     | 51.4         | 0.449                      | 20,190                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND    |
| USSCL-PT03-S-20221011 | C01399  |                              |                |                     | 51.4         | 0.449                      | 20,190                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND    |
| USSCL-PT04-S-20221011 | B15349  |                              |                |                     | 51.4         | 0.449                      | 20,205                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND,Fe |
| USSCL-PT05-S-20221011 | C20430  |                              |                |                     | 51.4         | 0.449                      | 20,207                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND    |
| USSCL-PT06-S-20221011 | B48097  |                              |                |                     | 51.4         | 0.449                      | 20,206                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND    |
| USSCL-PT07-S-20221011 | B12168  |                              |                |                     | 51.4         | 0.449                      | 20,208                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND    |
| USSCL-PT08-S-20221011 | B33041  |                              |                |                     | 51.4         | 0.449                      | 20,211                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND    |
| USSCL-PT09-S-20221011 | C17117  |                              |                |                     | 51.4         | 0.449                      | 20,211                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND    |
| USSCL-PT10-S-20221011 | B42372  |                              |                |                     | 51.4         | 0.449                      | 20,212                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND    |
| USSCL-PT10-D-20221011 | C20491  |                              |                |                     | 51.4         | 0.449                      | 20,213                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND    |
| USSCL-PT10-B-20221011 | C24164  |                              |                |                     | 51.4         | 0.449                      | 20,212                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND    |
| USSCL-PT11-S-20221011 | B15307  |                              |                |                     | 51.4         | 0.449                      | 20,212                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND    |
| USSCL-PT12-S-20221011 | C24187  |                              |                |                     | 51.4         | 0.449                      | 20,213                  | 0.610                       | 0.610                       | 0.141         | 0.141         | ND    |

# Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE101-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

## Toluene

| Sample Code           | Tube ID | Conc<br>(ug/m <sup>3</sup> ) | Conc<br>(ppbv) | Calc<br>Amt<br>(ng) | Temp<br>(°F) | Uptake<br>Rate<br>(mL/min) | Sample<br>Time<br>(min) | LOD<br>(ug/m <sup>3</sup> ) | LOQ<br>(ug/m <sup>3</sup> ) | LOD<br>(ppbv) | LOQ<br>(ppbv) | Flags |
|-----------------------|---------|------------------------------|----------------|---------------------|--------------|----------------------------|-------------------------|-----------------------------|-----------------------------|---------------|---------------|-------|
| USSCL-PT01-S-20221011 | C01421  | 5.35                         | 1.42           | 54.8                | 51.4         | 0.507                      | 20,194                  | 0.244                       | 0.539                       | 0.0648        | 0.143         |       |
| USSCL-PT02-S-20221011 | C24262  | 3.38                         | 0.898          | 34.7                | 51.4         | 0.507                      | 20,190                  | 0.244                       | 0.539                       | 0.0648        | 0.143         |       |
| USSCL-PT03-S-20221011 | C01399  | 4.99                         | 1.32           | 51.1                | 51.4         | 0.507                      | 20,190                  | 0.244                       | 0.539                       | 0.0648        | 0.143         |       |
| USSCL-PT04-S-20221011 | B15349  | 3.27                         | 0.867          | 33.5                | 51.4         | 0.507                      | 20,205                  | 0.244                       | 0.539                       | 0.0647        | 0.143         | Fe    |
| USSCL-PT05-S-20221011 | C20430  | 3.73                         | 0.991          | 38.3                | 51.4         | 0.507                      | 20,207                  | 0.244                       | 0.539                       | 0.0647        | 0.143         |       |
| USSCL-PT06-S-20221011 | B48097  | 5.16                         | 1.37           | 52.9                | 51.4         | 0.507                      | 20,206                  | 0.244                       | 0.539                       | 0.0647        | 0.143         |       |
| USSCL-PT07-S-20221011 | B12168  | 10.9                         | 2.89           | 111                 | 51.4         | 0.507                      | 20,208                  | 0.244                       | 0.539                       | 0.0647        | 0.143         |       |
| USSCL-PT08-S-20221011 | B33041  | 11.4                         | 3.02           | 117                 | 51.4         | 0.507                      | 20,211                  | 0.244                       | 0.538                       | 0.0647        | 0.143         |       |
| USSCL-PT09-S-20221011 | C17117  | 8.43                         | 2.24           | 86.5                | 51.4         | 0.507                      | 20,211                  | 0.244                       | 0.538                       | 0.0647        | 0.143         |       |
| USSCL-PT10-S-20221011 | B42372  | 12.9                         | 3.43           | 133                 | 51.4         | 0.507                      | 20,212                  | 0.244                       | 0.538                       | 0.0647        | 0.143         |       |
| USSCL-PT10-D-20221011 | C20491  | 12.1                         | 3.20           | 124                 | 51.4         | 0.507                      | 20,213                  | 0.244                       | 0.538                       | 0.0647        | 0.143         |       |
| USSCL-PT10-B-20221011 | C24164  |                              |                |                     | 51.4         | 0.507                      | 20,212                  | 0.244                       | 0.538                       | 0.0647        | 0.143         | ND    |
| USSCL-PT11-S-20221011 | B15307  | 18.9                         | 5.03           | 194                 | 51.4         | 0.507                      | 20,212                  | 0.244                       | 0.538                       | 0.0647        | 0.143         |       |
| USSCL-PT12-S-20221011 | C24187  | 5.20                         | 1.38           | 53.4                | 51.4         | 0.507                      | 20,213                  | 0.244                       | 0.538                       | 0.0647        | 0.143         |       |

E: Concentration exceeds calibration range

Fe: Field Error. See report narrative

ND: The analyte was not present above the Method Detection Limit

QC

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE101-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

### QC Samples

| Field Sample Type           | Sample Code           | 1,3-Butadiene |      | Benzene |      | Ethylbenzene |      | m-/p-Xylenes |      | o-Xylene |      | Toluene |      |
|-----------------------------|-----------------------|---------------|------|---------|------|--------------|------|--------------|------|----------|------|---------|------|
| Blanks (ug/m <sup>3</sup> ) | USSCL-PT10-B-20221011 | ND            | Pass | ND      | Pass | ND           | Pass | ND           | Pass | ND       | Pass | ND      | Pass |
| Duplicates (difference)     | USSCL-PT10-D-20221011 |               | Pass | 0.86%   | Pass |              | Pass | 0.79%        | Pass |          | Pass | 7.0%    | Pass |

# Narrative Summary

## Enthalpy Analytical Narrative Summary

|                 |                                    |
|-----------------|------------------------------------|
| <b>Company</b>  | All4, Inc.                         |
| <b>Site</b>     | US Steel Corp - Clairton Works ICR |
| <b>Project</b>  | 00701-0002.00                      |
| <b>Report #</b> | 2022EE101R                         |

|                                   |  |
|-----------------------------------|--|
| <b>Custody</b>                    | <p>Daniel Simpson of Enthalpy Analytical, LLC received the thermal desorption sample tubes on 10/26/2022 after being relinquished by All4, Inc. The tubes were received in good condition at a temperature of 17.3 °C.</p> <p>Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, LLC.</p>   |
| <b>Analysis</b>                   | <p>The thermal desorption tube samples were analyzed for benzene, 1,3-butadiene, toluene, ethylbenzene, m/p-xylene, and o-xylene using EPA Method 325B, Volatile Organic Compounds from Fugitive and Area Sources by Thermal Desorption and GC/MS.</p> <p>The Agilent Technologies Model 6890, Gas Chromatograph "Neville" (S/N US2215A021) was equipped with a 5973 Mass Selective Detector (S/N US2211M022) for these analyses.</p> <p>The Perkin-Elmer ATD-650 Thermal Desorber introduced the samples and standards to the analyzer.</p>   |
| <b>Chromatographic Conditions</b> | <p>A copy of the acquisition method (m325B-td-cryo9.M) is not included in this report but may be available upon request.</p>   |
| <b>Calibration</b>                | <p>The daily BFB check failed to meet method criteria for ion 174. However, because ion 174 is not near the tuning regions of the quant ions for the analytes of interest and the continuing calibration checks met the 30% difference criteria, the deviation is not expected to have an effect on the data. All other BFB criteria have been met for this analysis.</p> <p>The initial calibration (N102122A_BUT_BTEX) met the 30% RSD criteria. The initial calibration verification met the 30% recovery criteria. The continuing calibration verifications met the 30% difference criteria. The initial and continuing calibration raw data are not included in this report but are available upon request.</p> |

|                        |  |
|------------------------|--|
| <b>QC Notes</b>        | <p>All internal standard response and retention time criteria were met for these analyses.</p> <p>The field blank and the lab (method) blank met the requirements of the method.</p> <p>The duplicate samples met the 30% difference criterion specified by the method.</p>  |
| <b>Reporting Notes</b> | <p>For Benzene samples USSCL-PT01-S-20221011 and USSCL-PT11-S-20221011 exhibited a catch mass that exceeded the calibration range, should be considered an estimate, and has been marked with an “E” flag.</p> <p>It was noted by the client that the sampling tube for USSCL-PT04-S-20221011 (tube ID B15349) was deployed upside down and has been flagged “Fe” to denote this abnormality in deployment.</p> <p>The report was revised on 12/14/2022 to report results based on the revised Met data. The narrative was also revised to state the correct acquisition method utilized for the analysis, to state that the field and method blank met the method requirements in regards to all analytes of interest, and to include the daily BFB check failure to meet the criteria of the method for ion 174 while meeting all other BFB criteria—please refer to the Calibration section of the narrative for all details regarding this—as well as to include that these analyses met the requirements of the TNI Standard and that any deviations from the requirements of the reference method or TNI Standard have been stated above.</p> <p>A portion of each sample (or calibration standard) was recollected onto the original sample tube after internal standard was added in the initial analysis to allow for reanalysis if necessary. An "Rc" flag indicates that a reanalysis has been performed and the resulting data have been included in the report.</p> |



As specified in EPA Method 325B, the response factor of the daily continuing calibration standard was used to quantitate all field samples and blanks.

All samples were reported as amount in ng catch, and concentration in  $\mu\text{g}/\text{m}^3$  and ppbv.

The results presented in this report are representative of the samples as provided to the laboratory.

These analyses met the requirements of the TNI Standard. Any deviations from the requirements of the reference method or TNI Standard have been stated above.

# Sample Custody



# EPA Method 325 A/B Field Test Data Sheet and Chain of Custody Record

Page (x of y)

1 of 2

- ☒ Standard Turn Around Time (7 business days)
- ☐ Rush Turn Around Time
- All TATs Subject to Approval by Enthalpy Analytical, LLC
- Unless otherwise specified, sample tubes will be conditioned for re-use 3 business days after submission of results

|  |  |   |
|--|--|---|
| Site Name: <b>US Steel Corp - Clairton Works</b> | Client Name: <b>ALL4 LLC</b>             | <b>Field Sampling Conditions:</b>                           |
| Site Address: <b>400 State Street</b>            | Project Number: <b>00701-0002.00</b>     | <input type="checkbox"/> Rain During Deployment / Retrieval |
| City: <b>Clairton</b>                            | Project Manager: <b>Dustin Share</b>     | <input type="checkbox"/> Sample Period w/ Continuous Rain   |
| State: <b>PA</b>                                 | Email Address: <b>dshare@all4inc.com</b> | <input type="checkbox"/> Sample Period w/ Snow or Melt      |
| Zip: <b>15025</b>                                | Telephone #: <b>(610) 422-1126</b>       | <input type="checkbox"/> Other (Please explain in Notes)    |

| Location      | Sample ID (Tube ID) | Sample, Blank, or Duplicate | Start Date | Start Time | Stop Date | Stop Time | Sampler Initials | Avg. Ambient Temp. (°F) |
|---------------|---------------------|-----------------------------|------------|------------|-----------|-----------|------------------|-------------------------|
| PT01-221011-S | C01421              | S                           | 22/10/11   | 7:22 AM    | 22/10/25  | 7:56 AM   | SRA              |                         |
| PT02-221011-S | C24262              | S                           | 22/10/11   | 7:31 AM    | 22/10/25  | 8:01 AM   | SRA              |                         |
| PT03-221011-S | C01399              | S                           | 22/10/11   | 7:36 AM    | 22/10/25  | 8:06 AM   | SRA              |                         |
| PT04-221011-S | B15349              | S                           | 22/10/11   | 7:40 AM    | 22/10/25  | 8:25 AM   | SRA              |                         |
| PT05-221011-S | C20436              | S                           | 22/10/11   | 7:46 AM    | 22/10/25  | 8:33 AM   | SRA              |                         |
| PT06-221011-S | B48097              | S                           | 22/10/11   | 7:52 AM    | 22/10/25  | 8:38 AM   | SRA              |                         |
| PT07-221011-S | B12168              | S                           | 22/10/11   | 7:58 AM    | 22/10/25  | 8:46 AM   | SRA              |                         |
| PT08-221011-S | B33041              | S                           | 22/10/11   | 8:07 AM    | 22/10/25  | 8:58 AM   | SRA              |                         |

**Collected By: Print Name and Signature**

Stacy Arner *[Signature]*

|  |                          |  |
|--|--------------------------|--|
| <b>Relinquished to Shipper: Print Name and Signature</b> | <b>Relinquished Date</b> | <b>Relinquished Time</b>               |
| Stacy Arner <i>[Signature]</i>                           | 22/10/25                 | 12:45 PM                               |
| <b>Received by: Print Name and Signature</b>             | <b>Receipt Date</b>      | <b>Custody Seal Intact (Yes or No)</b> |
| Daniel Simpson <i>[Signature]</i>                        | 10/26/22 - 10:00         | N                                      |
| <b>Sample Condition Upon Receipt:</b>                    | <b>Custody Seal # →</b>  |  |
| Good   | 22E04737                 |  |

**Analysis Required:**

**Comments:** Upon collection, it was noted that PT04-221011-S had been operating arrow down w/ the diffusion cap on the arrow down end.  
TB: DB IP: 5.7 > Flute 1



EPA Method 325 A/B  
Field Test Data Sheet and  
Chain of Custody Record

Page (x of y)

2 of 2

- ☒ Standard Turn Around Time (7 business days)  
☐ Rush Turn Around Time  
• All TATs Subject to Approval by Enthalpy Analytical, LLC  
• Unless otherwise specified, sample tubes will be conditioned for re-use 3 business days after submission of results

|   |                                    |   |
|---|------------------------------------|---|
| Site Name: US Steel Corp-Clairton Works | Client Name: ALL4 LLC              | Field Sampling Conditions:                                  |
| Site Address: 400 State Street          | Project Number: 00701-0002.00      | <input type="checkbox"/> Rain During Deployment / Retrieval |
| City: Clairton                          | Project Manager: Dustin Snare      | <input type="checkbox"/> Sample Period w/ Continuous Rain   |
| State: PA                               | Email Address: dsnares@all4inc.com | <input type="checkbox"/> Sample Period w/ Snow or Melt      |
| Zip: 15025                              | Telephone #: (412) 422-1126        | <input type="checkbox"/> Other (Please explain in Notes)    |

| Location      | Sample ID (Tube ID) | Sample, Blank, or Duplicate | Start Date | Start Time | Stop Date | Stop Time | Sampler Initials | Avg. Ambient Temp. (°F) |
|---------------|---------------------|-----------------------------|------------|------------|-----------|-----------|------------------|-------------------------|
| PT09-221011-S | C17117              | S                           | 22/10/11   | 8:14 AM    | 22/10/25  | 9:06 AM   | SRA              |                         |
| PT00-221011-S | B42372              | S                           | 22/10/11   | 8:21 AM    | 22/10/25  | 9:13 AM   | SRA              |                         |
| PT10-221011-D | C20491              | D                           | 22/10/11   | 8:24 AM    | 22/10/25  | 9:17 AM   | SRA              |                         |
| PT10-221011-B | C24164              | B                           | 22/10/11   | 8:26 AM    | 22/10/25  | 9:18 AM   | SRA              |                         |
| PT11-221011-S | B15307              | S                           | 22/10/11   | 8:31 AM    | 22/10/25  | 9:23 AM   | SRA              |                         |
| PT12-221011-S | C24187              | S                           | 22/10/11   | 8:36 AM    | 22/10/25  | 9:29 AM   | SRA              |                         |
|               |                     |                             |            |            |           |           |                  |                         |
|               |                     |                             |            |            |           |           |                  |                         |

Collected By: Print Name and Signature

Stacy Arner / Stacy R Arner

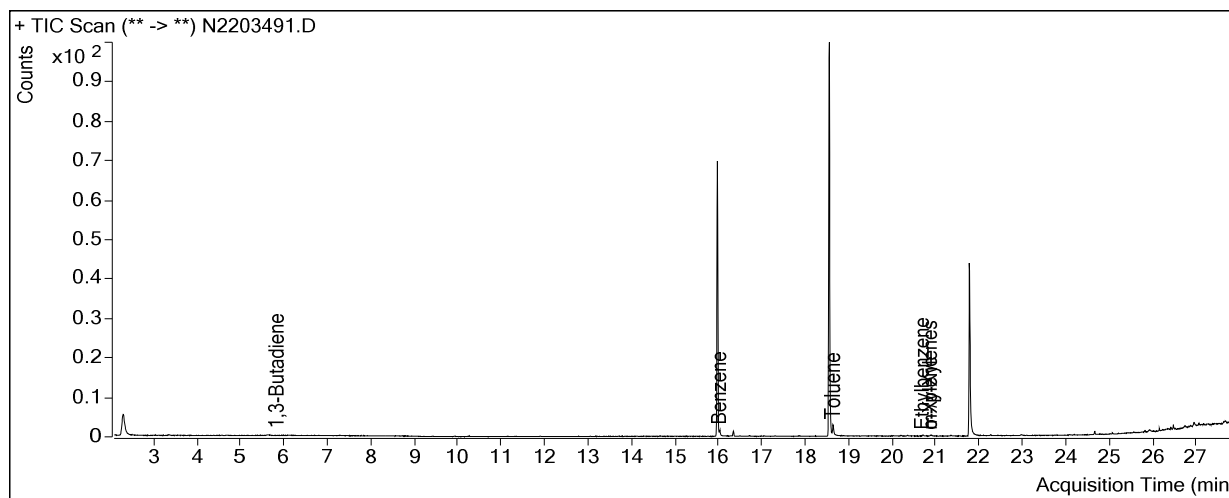
|   |                   |                                 |
|---|-------------------|---------------------------------|
| Relinquished to Shipper: Print Name and Signature | Relinquished Date | Relinquished Time               |
| Stacy Arner / Stacy R Arner                       | 22/10/25          | 12:45 PM                        |
| Received by: Print Name and Signature             | Receipt Date      | Custody Seal Intact (Yes or No) |
| Daniel Simpson / Daniel Simpson                   | 10/26/22 - 10:00  | N                               |
| Sample Condition Upon Receipt: Good               | Custody Seal # →  | 22E04737                        |

Analysis Required:

Comments: IP: 5.7 TB: 17.3 > Fluke 1

# Sample Chromatograms

Sample Name : 2022EE101 Method Blank  
Sample Info : B12018  
Data File : N2203491.D  
Acquisition Date : 2022-10-31 07:07:25  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

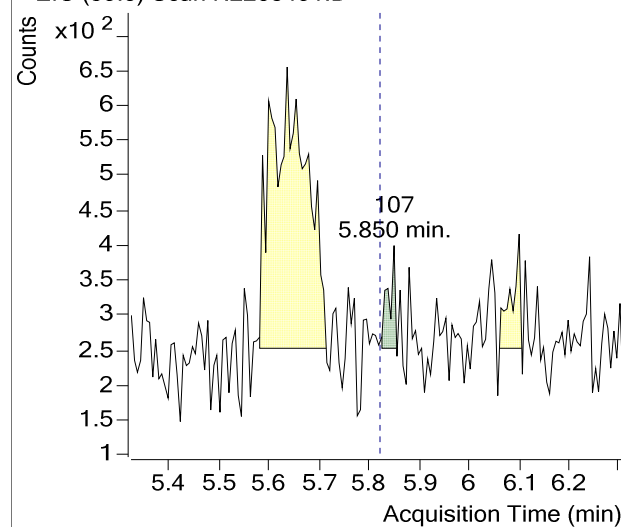


| Compound        | Retention Time | Response | Flags |
|-----------------|----------------|----------|-------|
| 1,3-Butadiene   | 5.82           | 107      |       |
| Benzene-d6 (IS) | 15.97          | 991,779  |       |

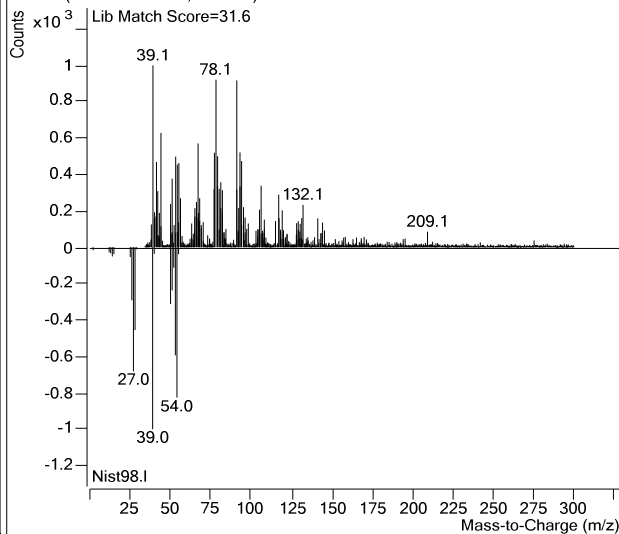
**(m)=Manual Integration**

**1,3-Butadiene**

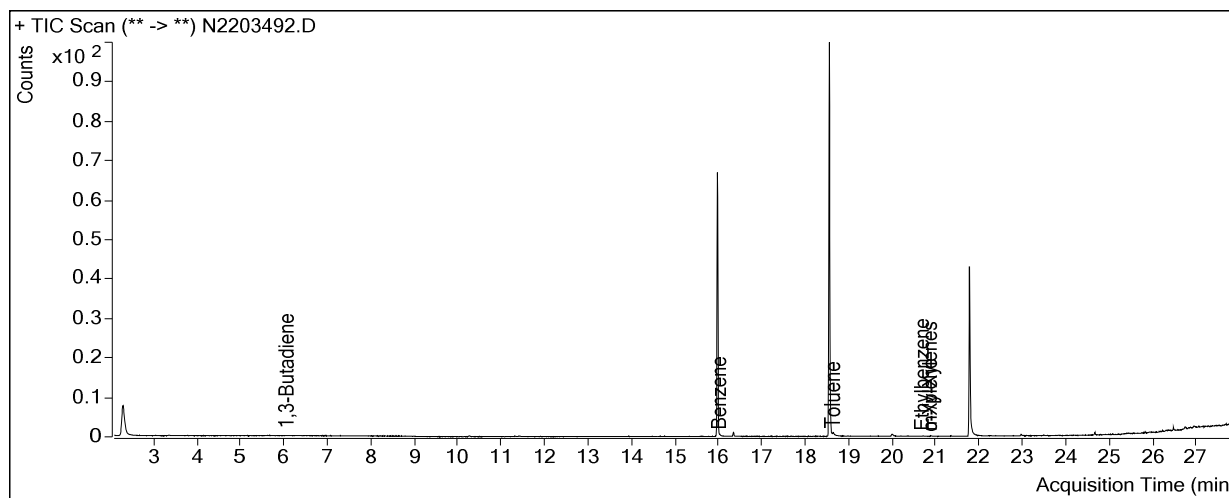
+ EIC (39.0) Scan N2203491.D



+ Scan (5.825-5.855 min, 5 scans) N2203491.D



Sample Name : USSCL-PT10-B-20221011  
Sample Info : C24164  
Data File : N2203492.D  
Acquisition Date : 2022-10-31 07:47:13  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

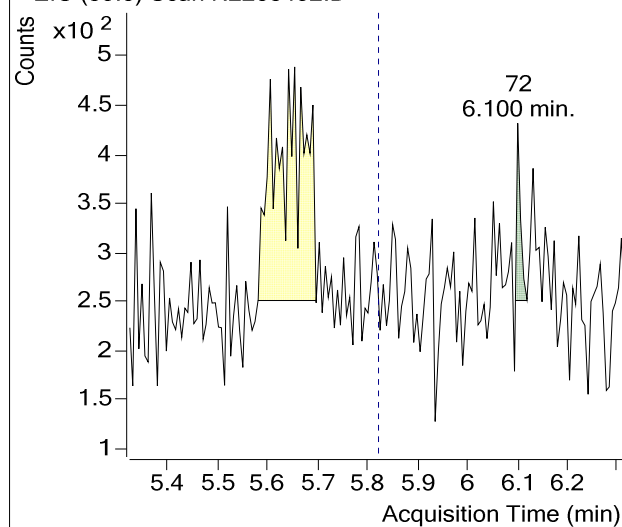


| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 72        |       |
| Benzene-d6 (IS) | 15.97          | 1,062,820 |       |

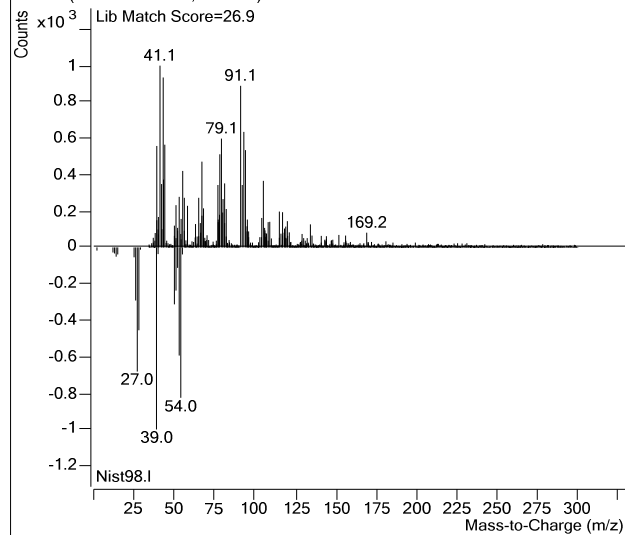
(m)=Manual Integration

1,3-Butadiene

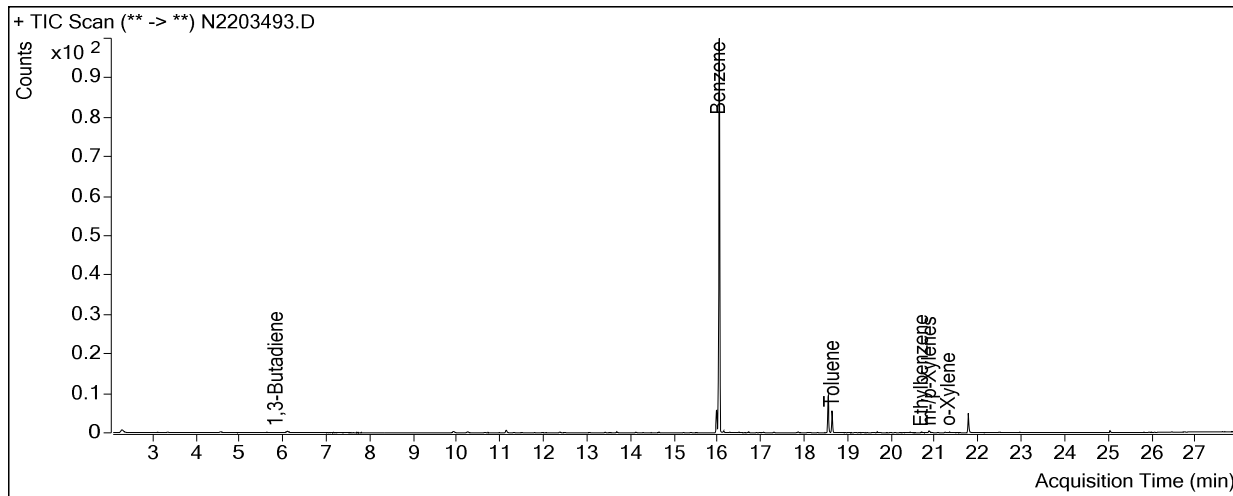
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+ Scan (6.096-6.119 min, 4 scans) N2203492.D

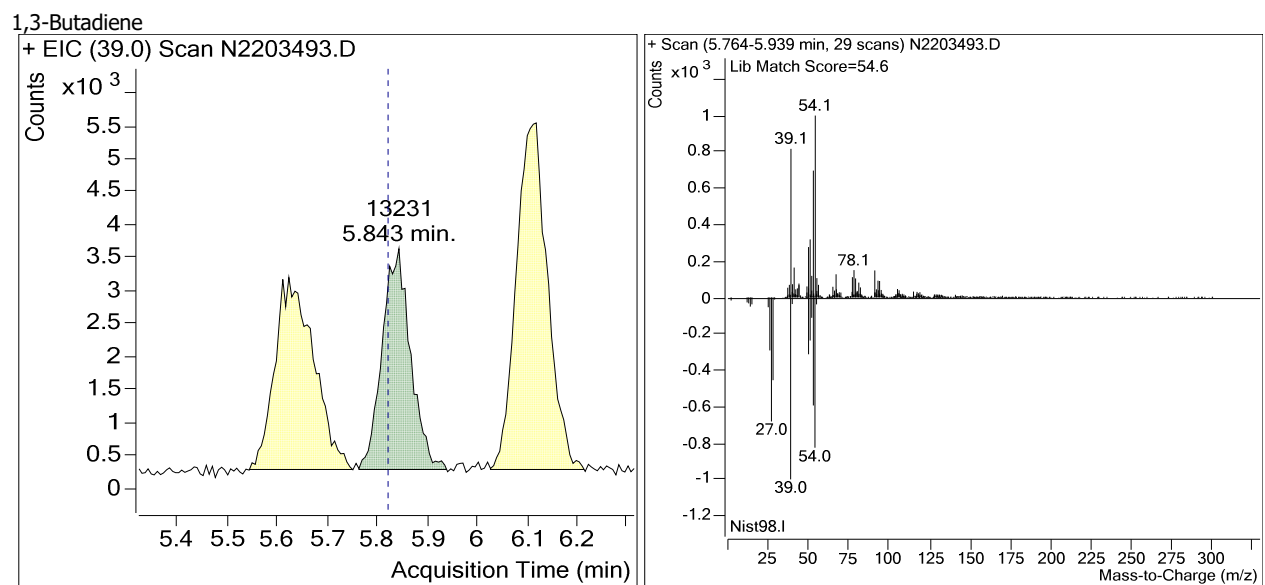


Sample Name : USSCL-PT01-S-20221011  
Sample Info : C01421  
Data File : N2203493.D  
Acquisition Date : 2022-10-31 08:27:24  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



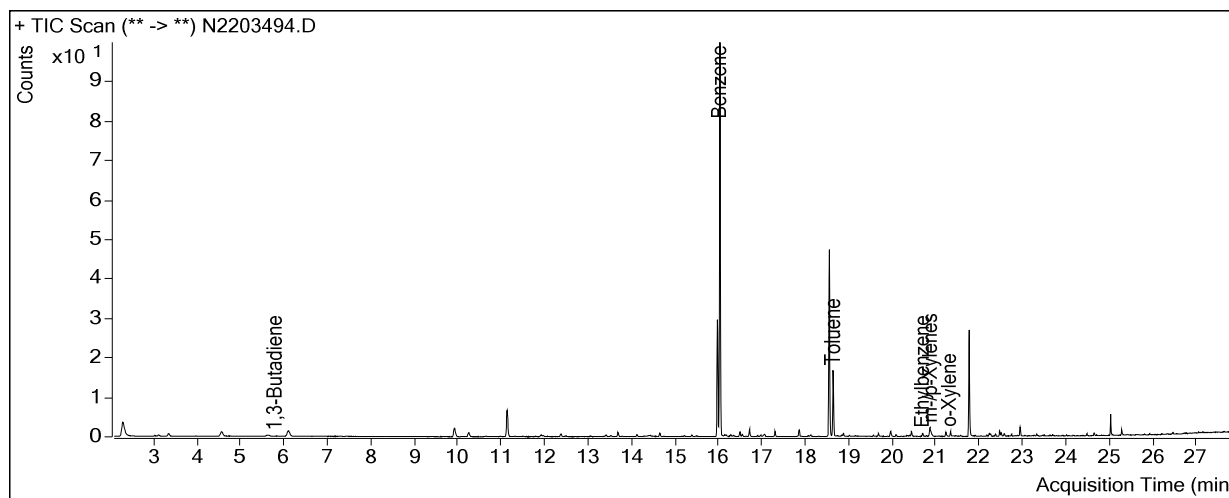
| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 13,231    |       |
| Benzene-d6 (IS) | 15.97          | 1,129,009 |       |

**(m)=Manual Integration**



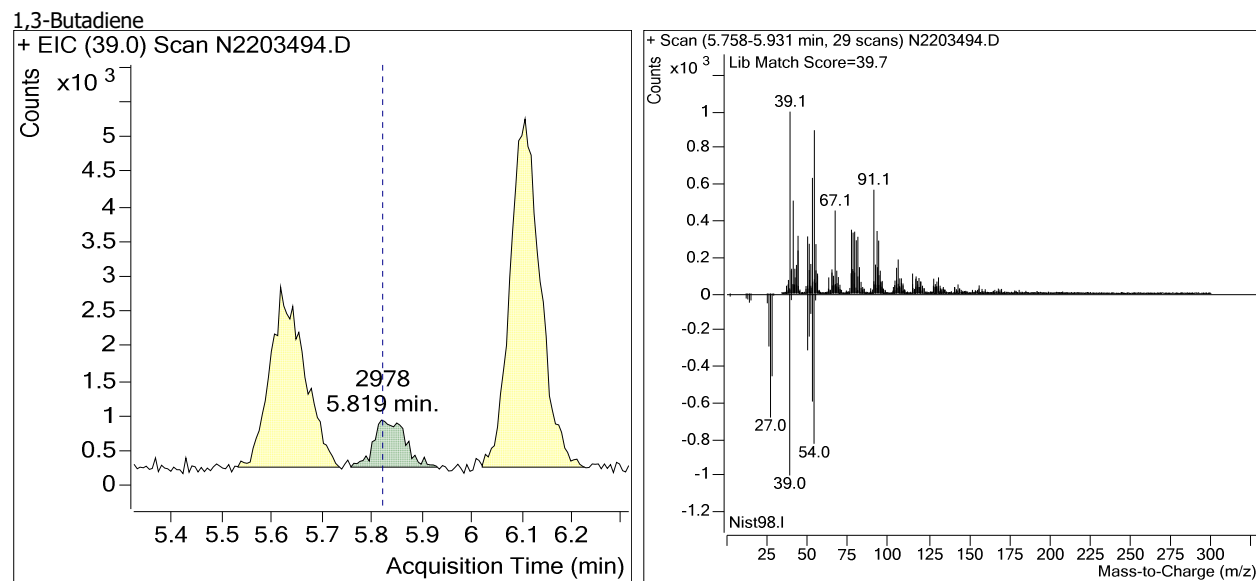


Sample Name : USSCL-PT02-S-20221011  
Sample Info : C24262  
Data File : N2203494.D  
Acquisition Date : 2022-10-31 09:07:28  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

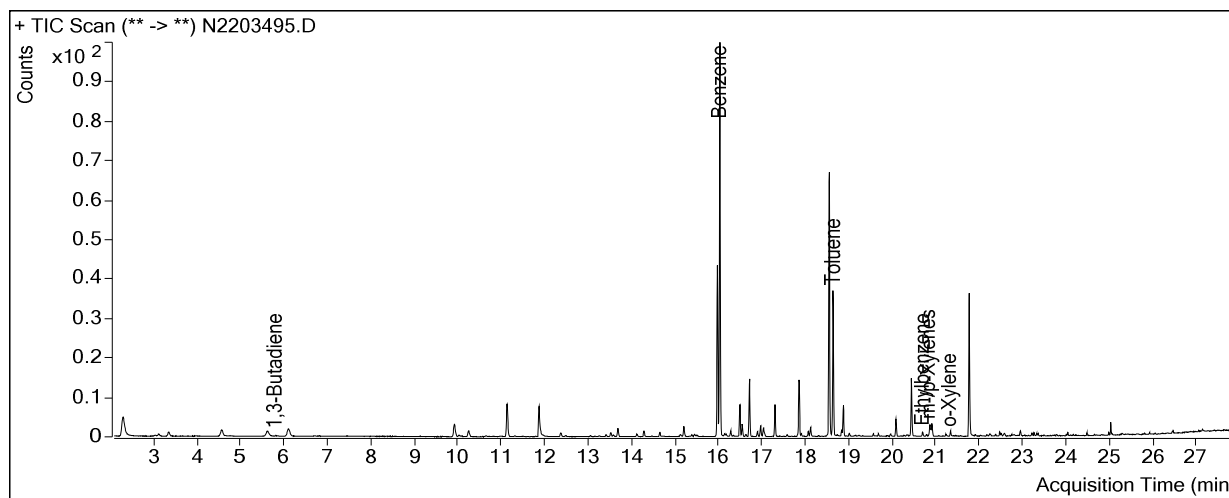


| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 2,978     |       |
| Benzene-d6 (IS) | 15.97          | 1,154,731 |       |

**(m)=Manual Integration**



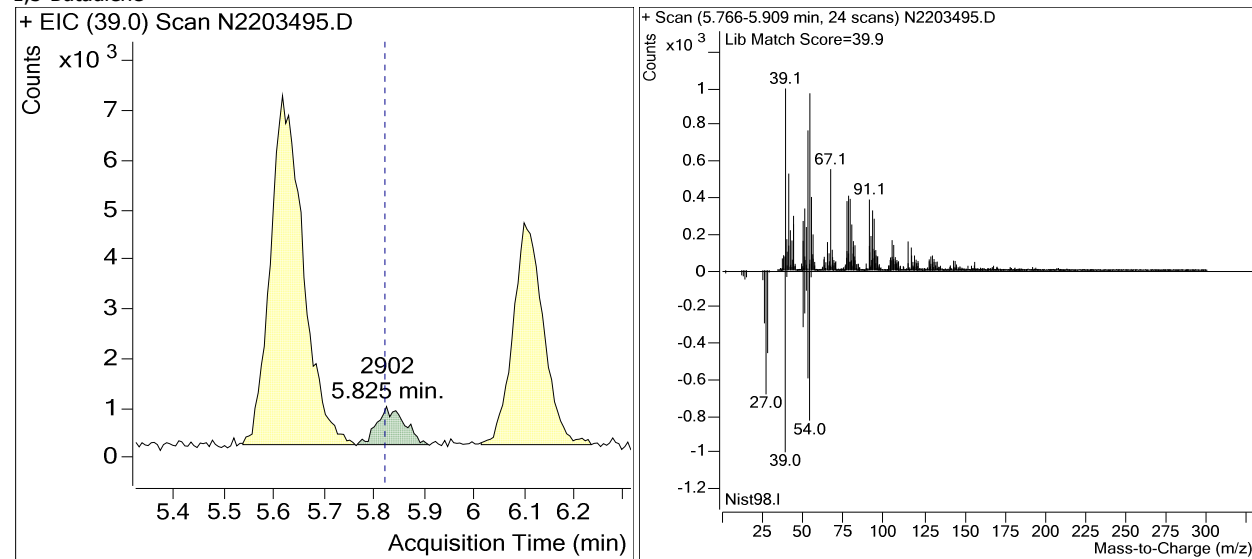
Sample Name : USSCL-PT03-S-20221011  
Sample Info : C01399  
Data File : N2203495.D  
Acquisition Date : 2022-10-31 09:47:15  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



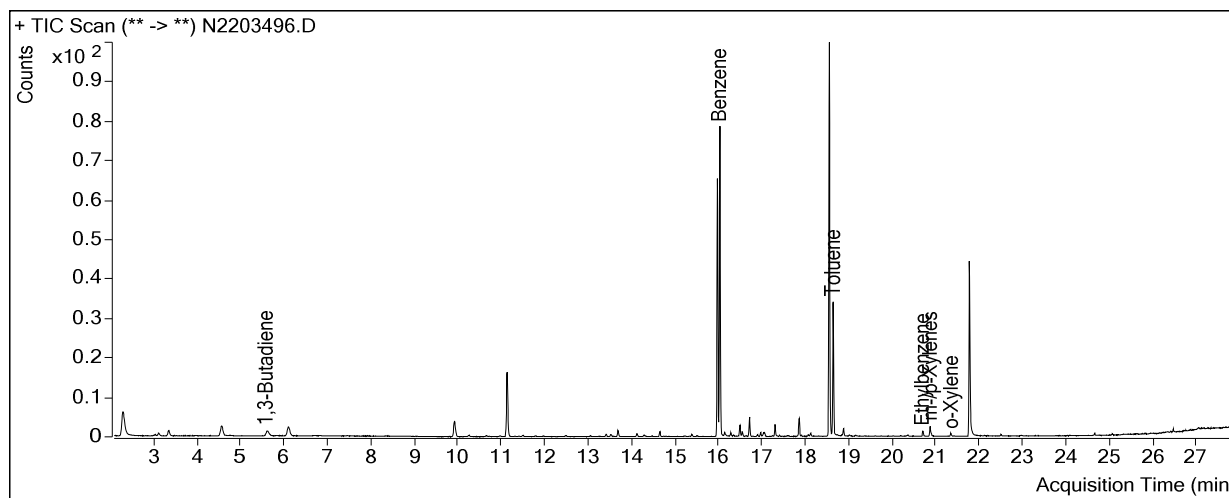
| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 2,902     |       |
| Benzene-d6 (IS) | 15.97          | 1,146,634 |       |

**(m)=Manual Integration**

**1,3-Butadiene**



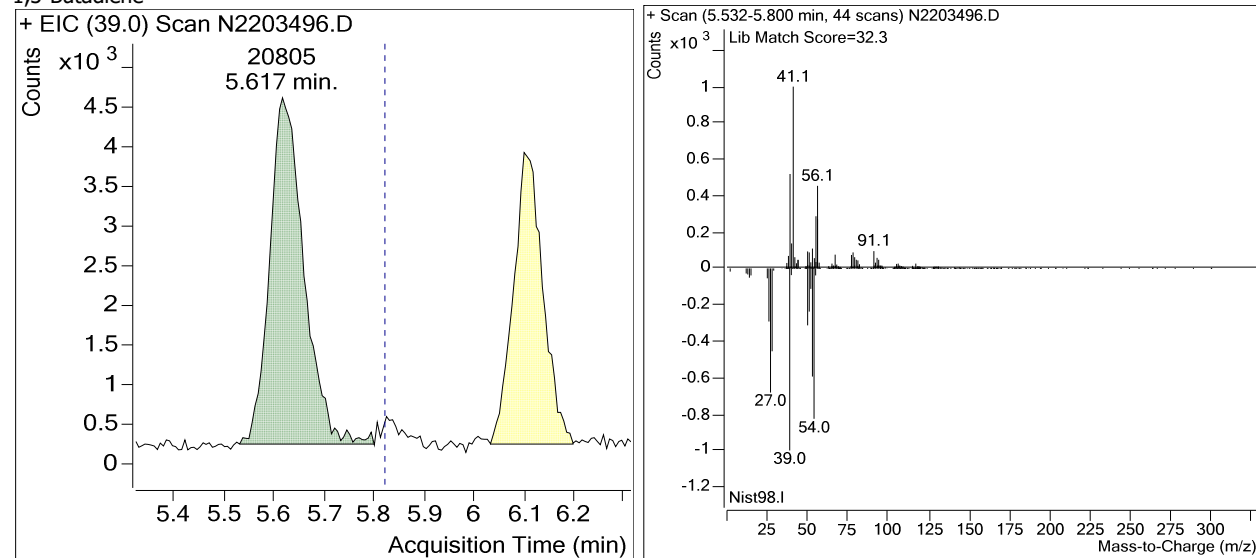
Sample Name : USSCL-PT04-S-20221011  
Sample Info : B15349  
Data File : N2203496.D  
Acquisition Date : 2022-10-31 10:27:02  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



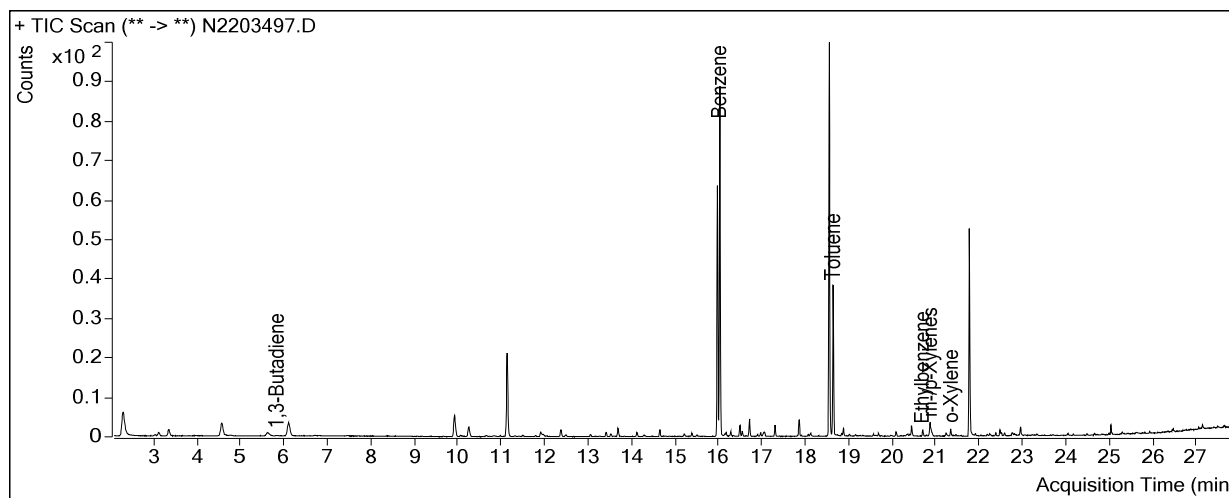
| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 20,805    |       |
| Benzene-d6 (IS) | 15.97          | 1,166,738 |       |

**(m)=Manual Integration**

**1,3-Butadiene**



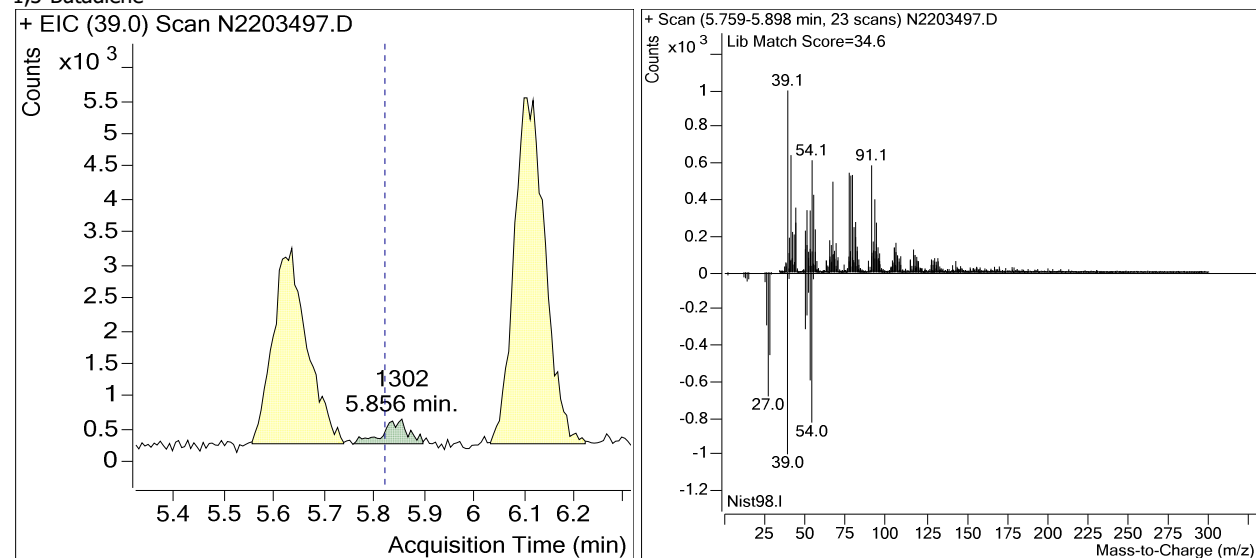
Sample Name : USSCL-PT05-S-20221011  
Sample Info : C20430  
Data File : N2203497.D  
Acquisition Date : 2022-10-31 11:06:49  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



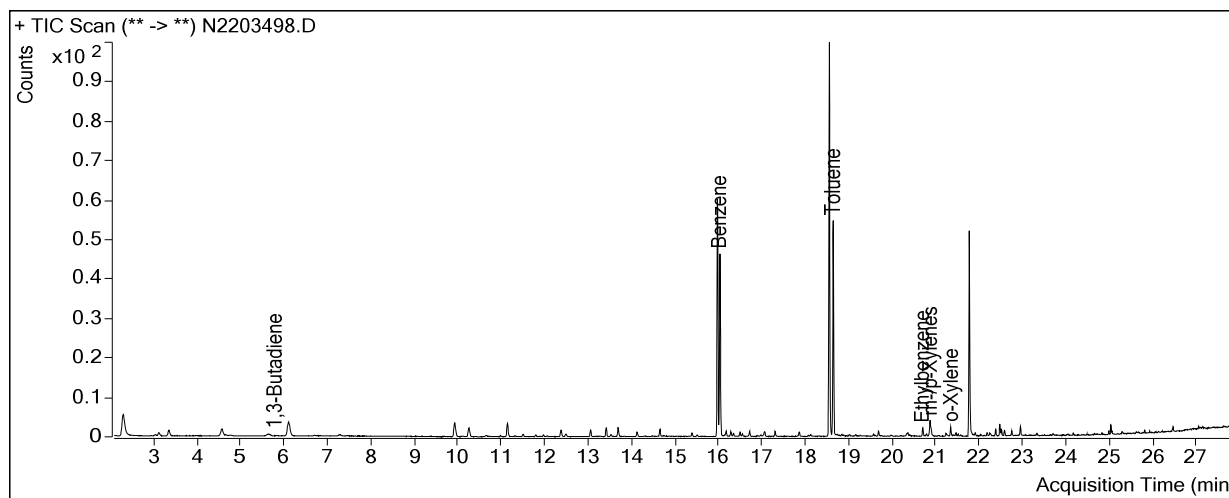
| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 1,302     |       |
| Benzene-d6 (IS) | 15.97          | 1,157,270 |       |

**(m)=Manual Integration**

**1,3-Butadiene**



Sample Name : USSCL-PT06-S-20221011  
Sample Info : B48097  
Data File : N2203498.D  
Acquisition Date : 2022-10-31 11:46:49  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

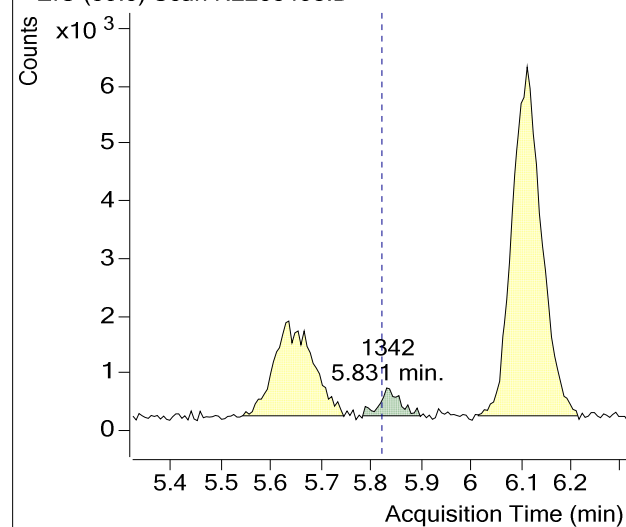


| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 1,342     |       |
| Benzene-d6 (IS) | 15.97          | 1,139,221 |       |

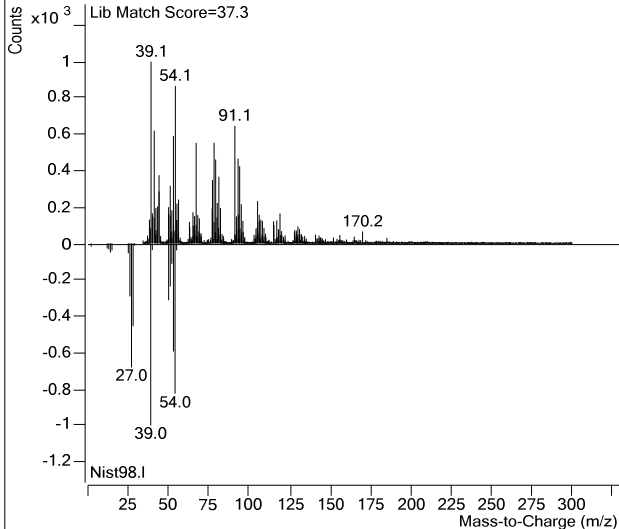
**(m)=Manual Integration**

**1,3-Butadiene**

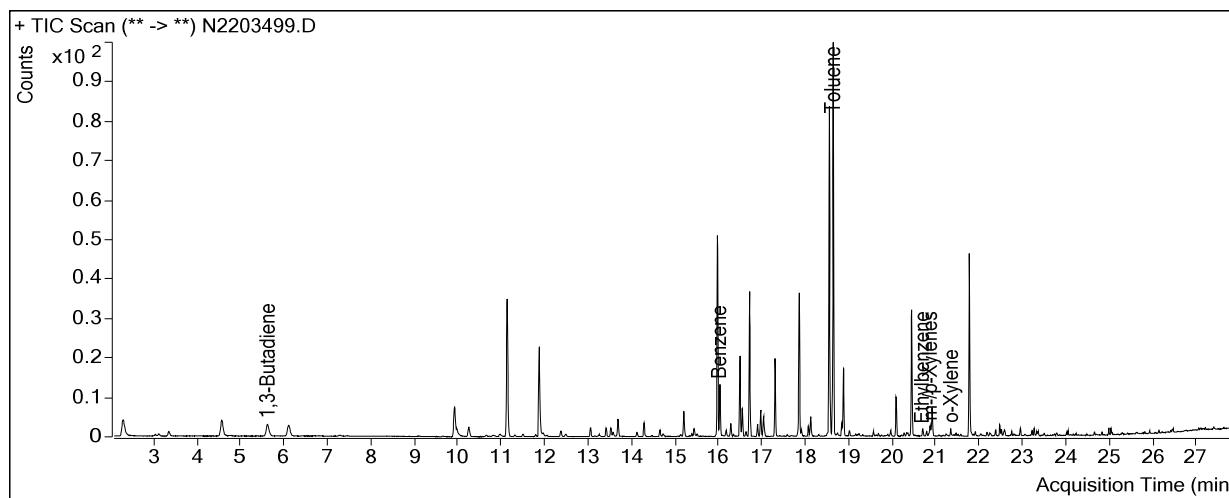
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+ Scan (5.784-5.898 min, 19 scans) N2203498.D

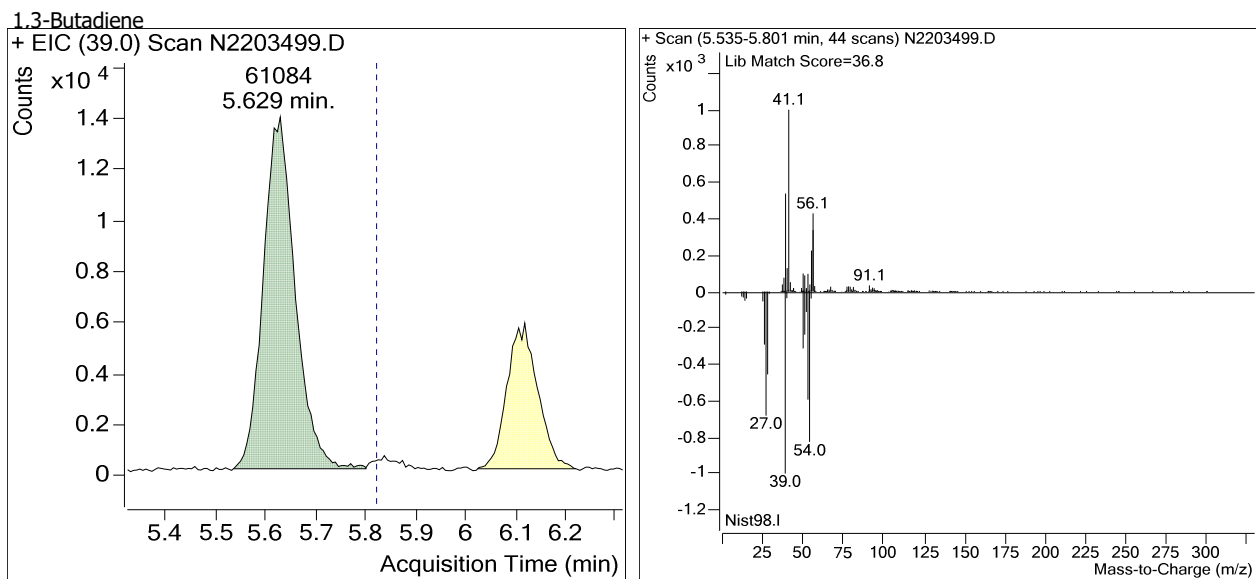


Sample Name : USSCL-PT07-S-20221011  
Sample Info : B12168  
Data File : N2203499.D  
Acquisition Date : 2022-10-31 12:26:37  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

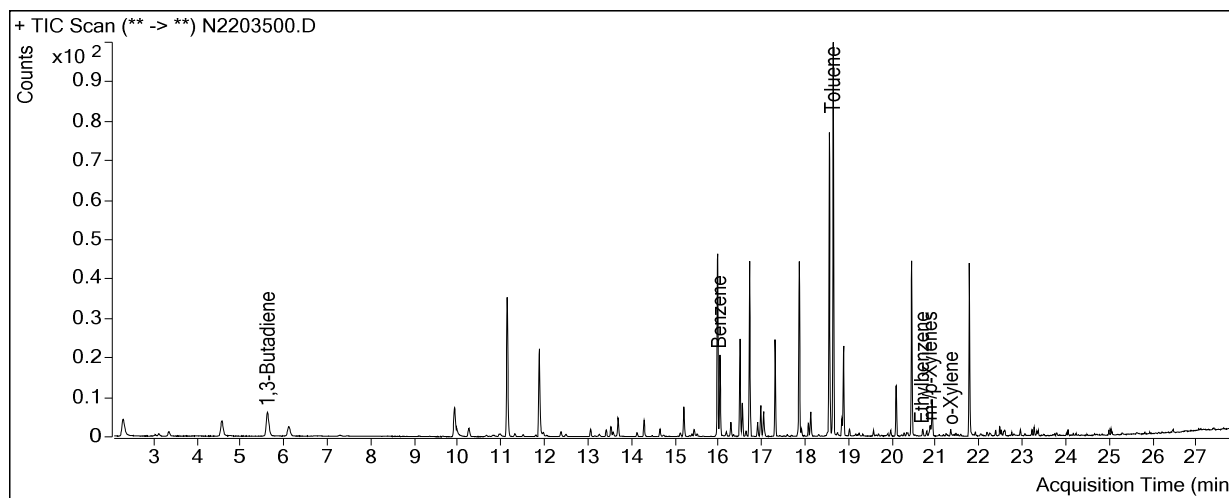


| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 61,084    |       |
| Benzene-d6 (IS) | 15.97          | 1,167,502 |       |

**(m)=Manual Integration**

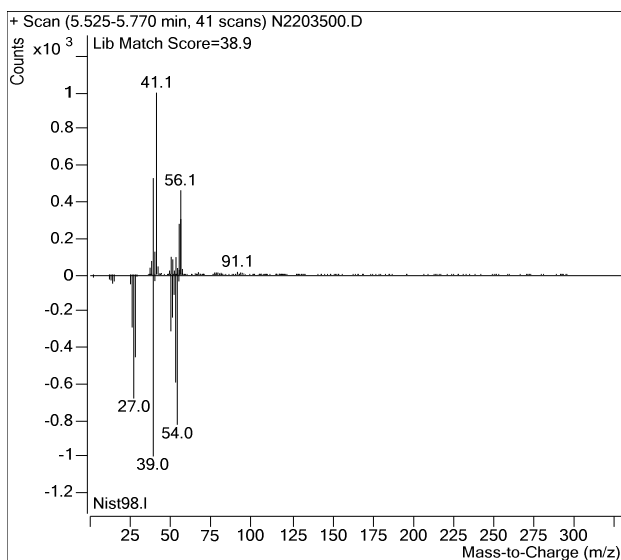
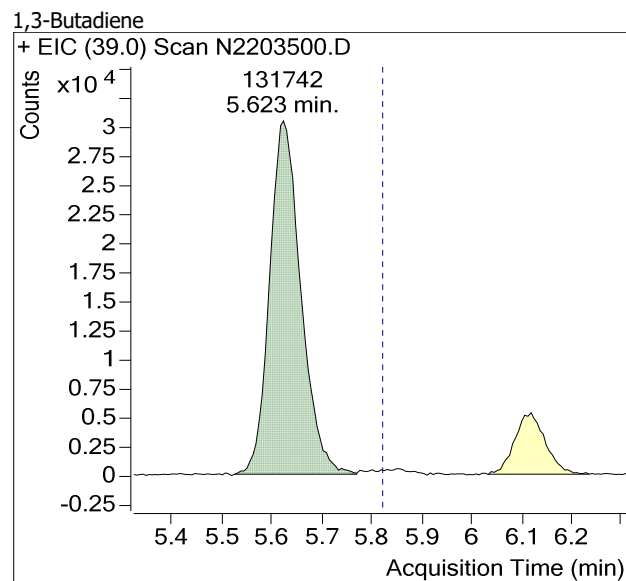


Sample Name : USSCL-PT08-S-20221011  
Sample Info : B33041  
Data File : N2203500.D  
Acquisition Date : 2022-10-31 13:06:23  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

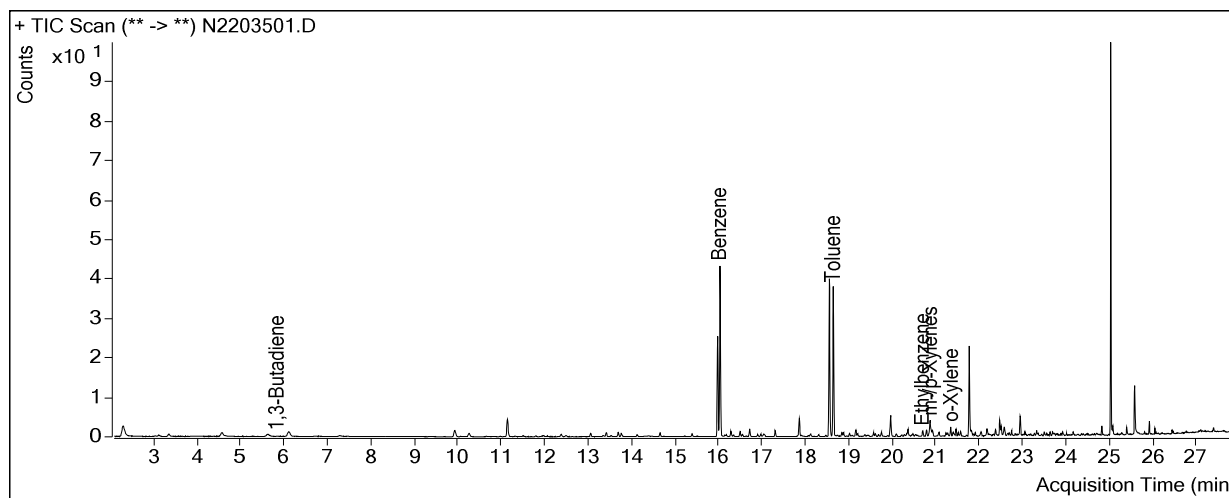


| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 131,742   |       |
| Benzene-d6 (IS) | 15.97          | 1,179,920 |       |

**(m)=Manual Integration**



Sample Name : USSCL-PT09-S-20221011  
Sample Info : C17117  
Data File : N2203501.D  
Acquisition Date : 2022-10-31 13:46:12  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

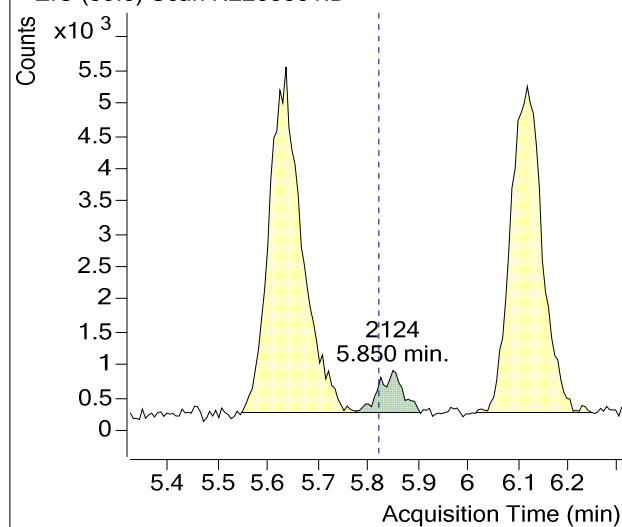


| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 2,124     |       |
| Benzene-d6 (IS) | 15.97          | 1,188,083 |       |

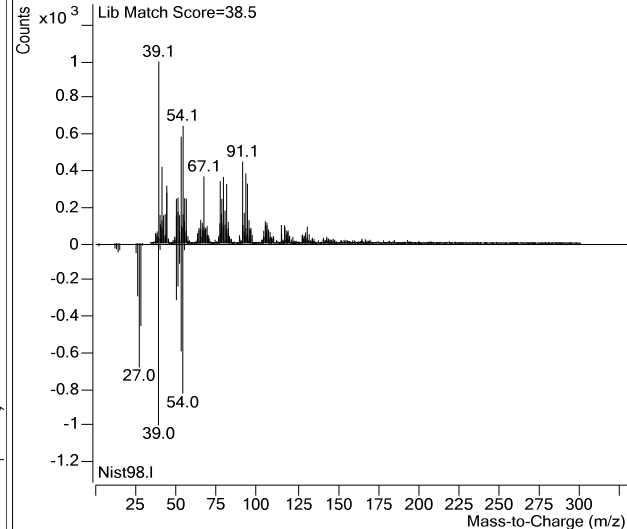
**(m)=Manual Integration**

**1,3-Butadiene**

+ EIC (39.0) Scan N2203501.D

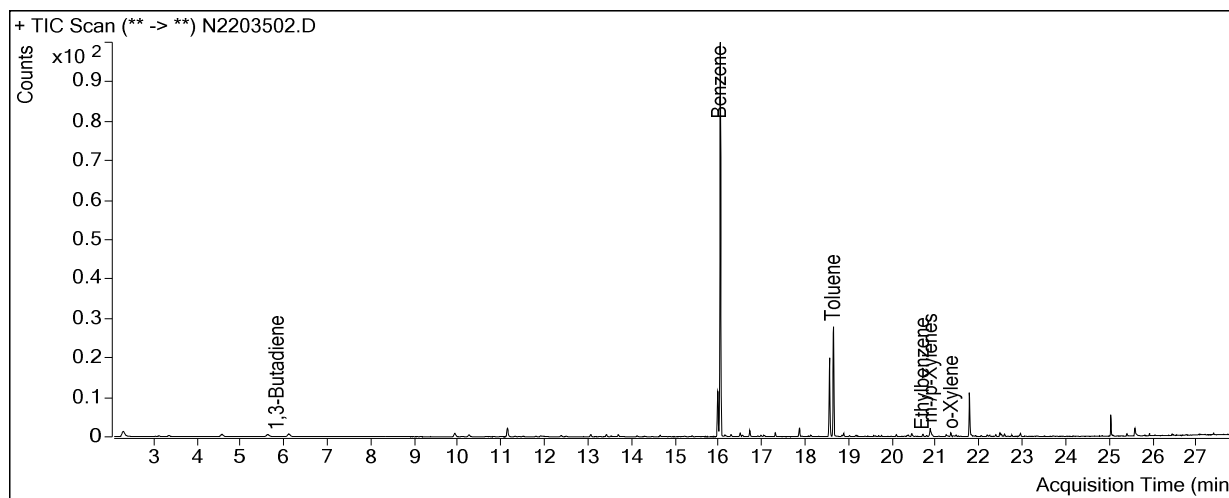


+ Scan (5.776-5.904 min, 21 scans) N2203501.D





Sample Name : USSCL-PT10-S-20221011  
Sample Info : B42372  
Data File : N2203502.D  
Acquisition Date : 2022-10-31 14:25:59  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

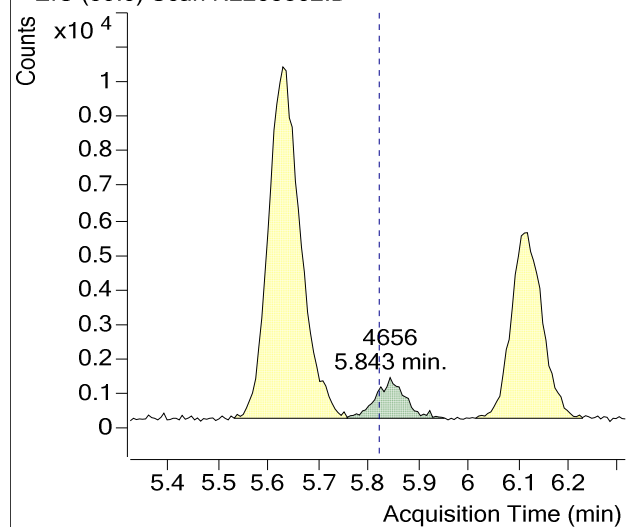


| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 4,656     |       |
| Benzene-d6 (IS) | 15.97          | 1,179,080 |       |

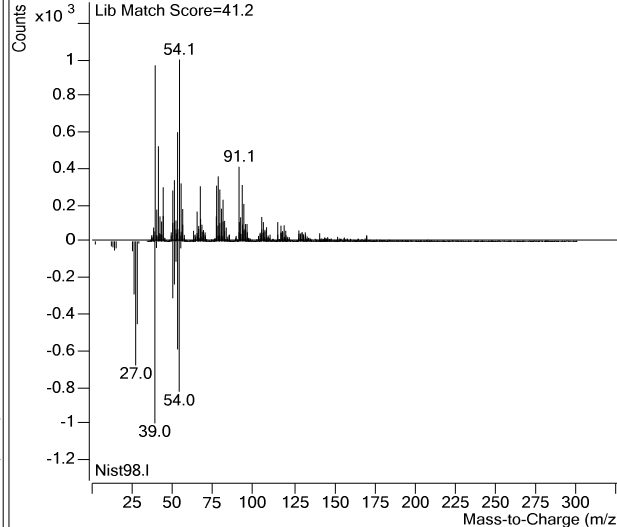
**(m)=Manual Integration**

**1,3-Butadiene**

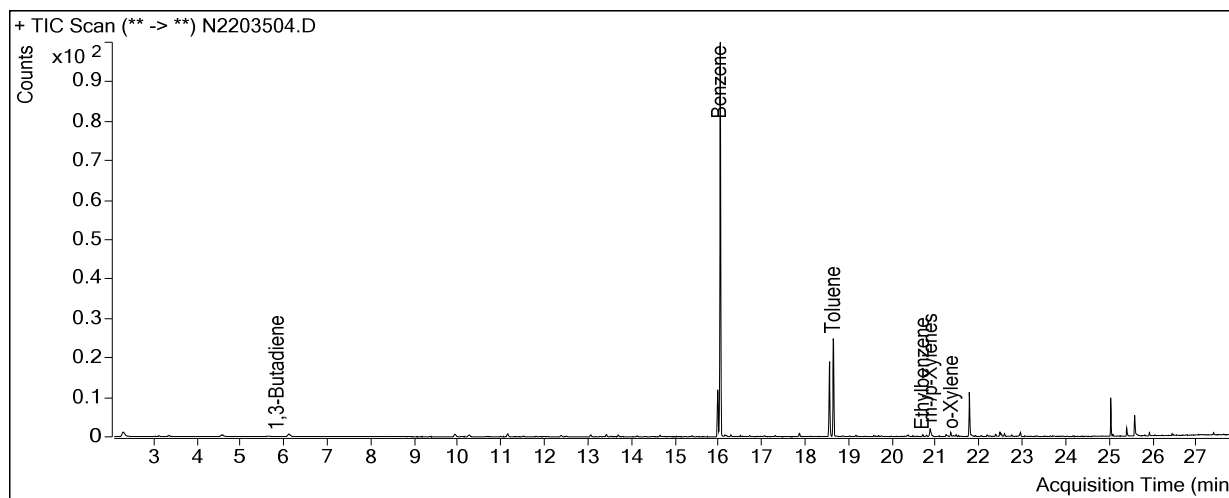
+ EIC (39.0) Scan N2203502.D



+ Scan (5.758-5.952 min, 32 scans) N2203502.D



Sample Name : USSCL-PT10-D-20221011  
Sample Info : C20491  
Data File : N2203504.D  
Acquisition Date : 2022-10-31 15:45:32  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

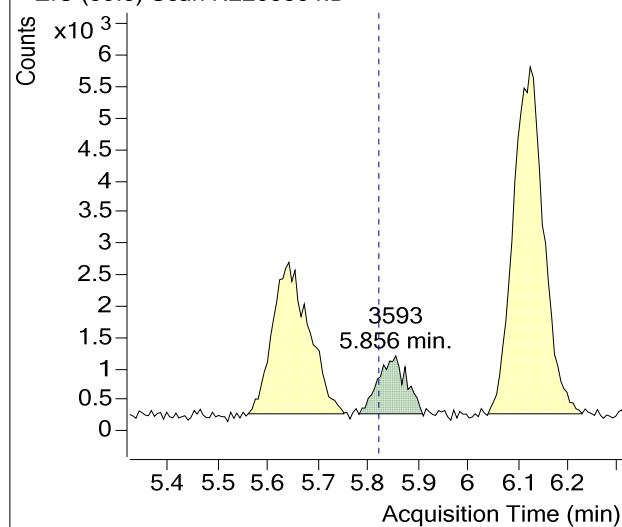


| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 3,593     |       |
| Benzene-d6 (IS) | 15.97          | 1,176,097 |       |

**(m)=Manual Integration**

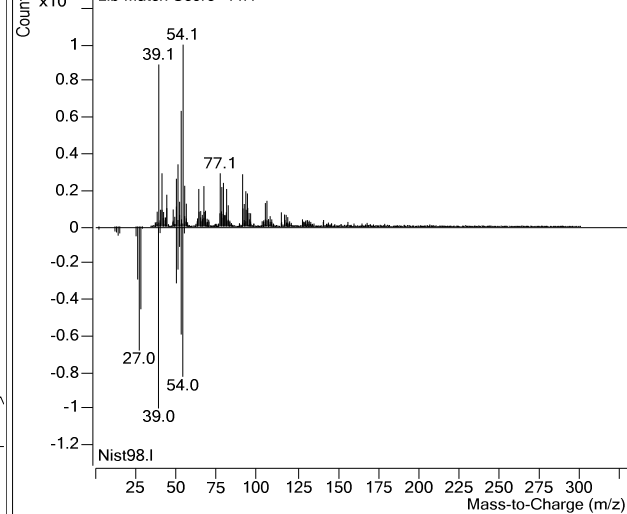
**1,3-Butadiene**

+ EIC (39.0) Scan N2203504.D

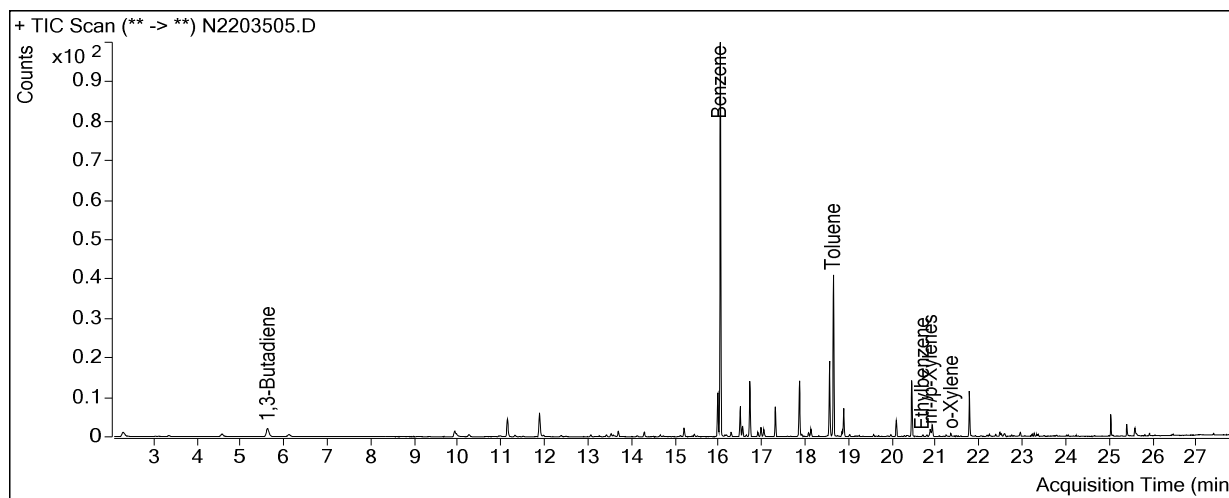


+ Scan (5.783-5.909 min, 21 scans) N2203504.D

Lib Match Score=44.1

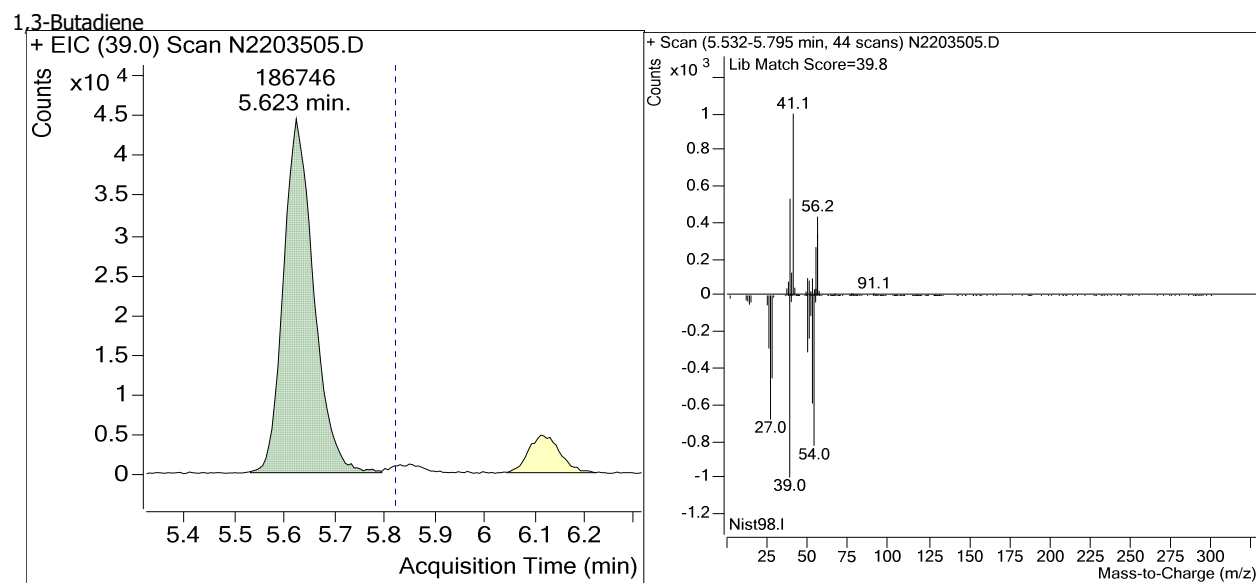


Sample Name : USSCL-PT11-S-20221011  
Sample Info : B15307  
Data File : N2203505.D  
Acquisition Date : 2022-10-31 16:25:20  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

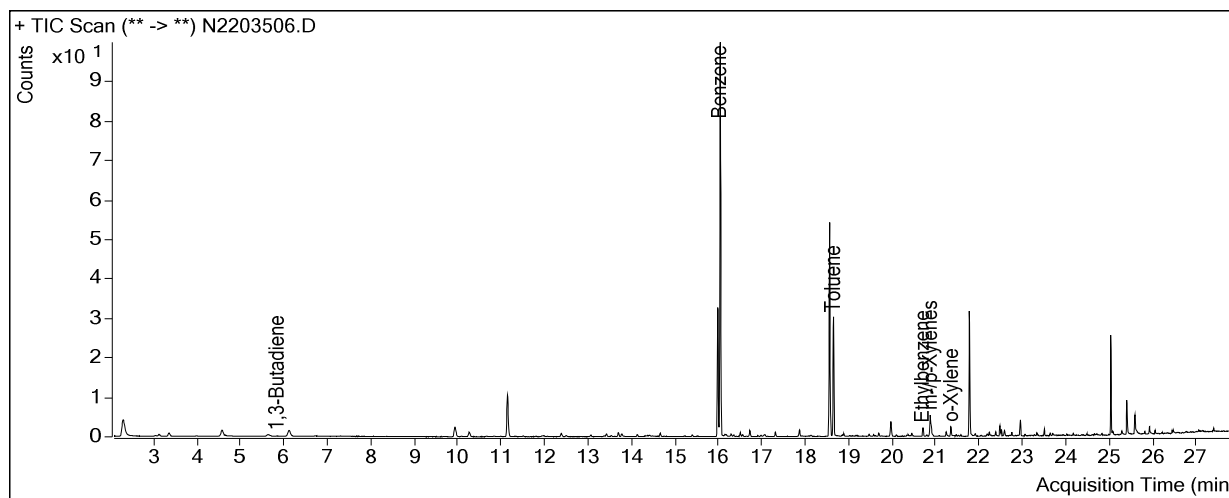


| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 186,746   |       |
| Benzene-d6 (IS) | 15.97          | 1,197,763 |       |

**(m)=Manual Integration**

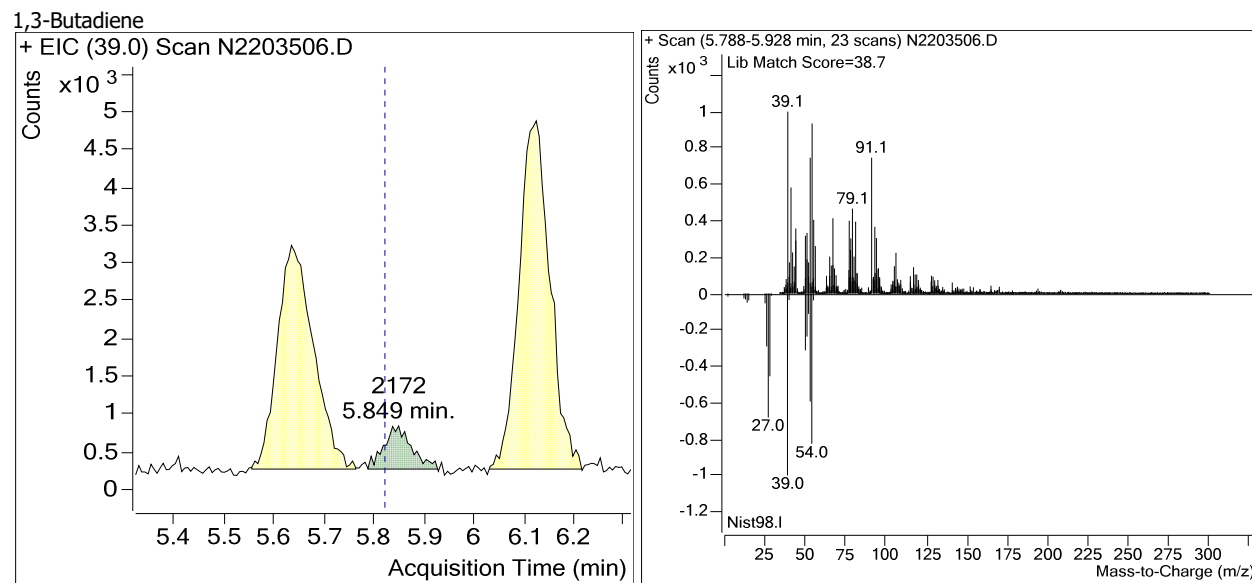


Sample Name : USSCL-PT12-S-20221011  
Sample Info : C24187  
Data File : N2203506.D  
Acquisition Date : 2022-10-31 17:05:07  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

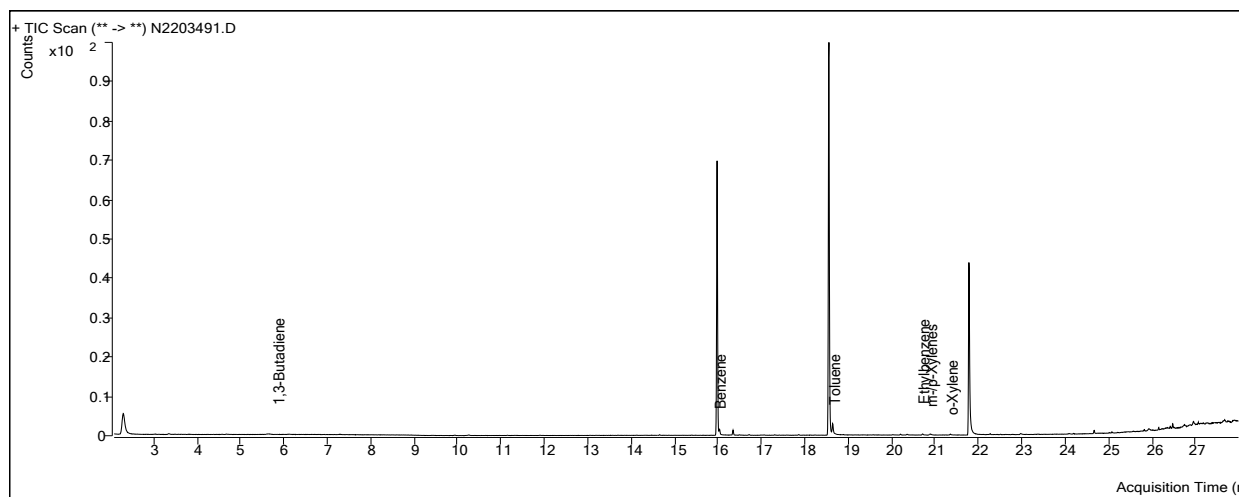


| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene   | 5.82           | 2,172     |       |
| Benzene-d6 (IS) | 15.97          | 1,179,676 |       |

**(m)=Manual Integration**



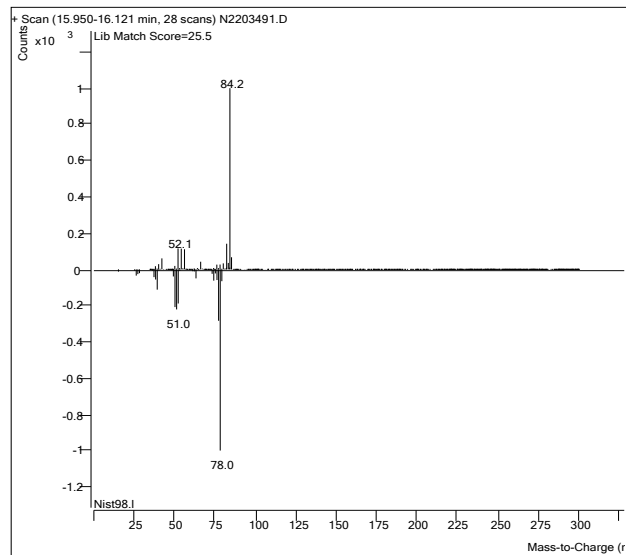
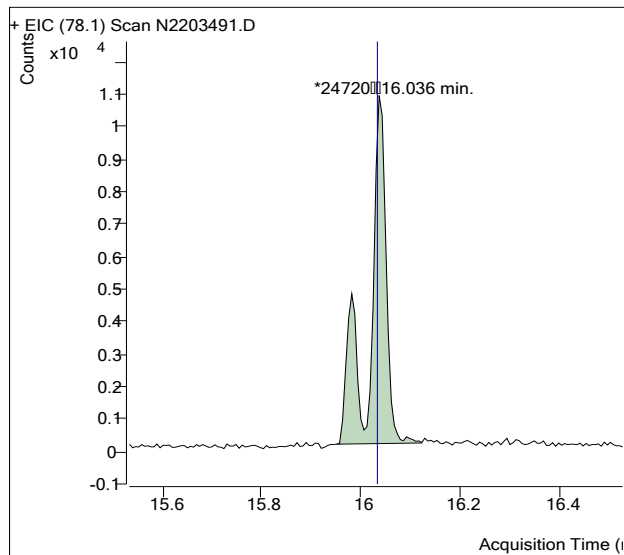
Sample Name : 2022EE101 Method Blank  
Sample Info : B12018  
Data File : N2203491.D  
Acquisition Date : 2022-10-31 07:07:25  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 991,779   |       |
| Benzene         | 16.03          | 24,720    | m     |
| Toluene-d8 (IS) | 18.55          | 1,167,470 |       |
| Toluene         | 18.64          | 33,075    |       |
| Ethylbenzene    | 20.70          | 4,402     |       |
| m-/p-Xylenes    | 20.89          | 4,577     |       |
| o-Xylene        | 21.32          | 2,668     | m     |

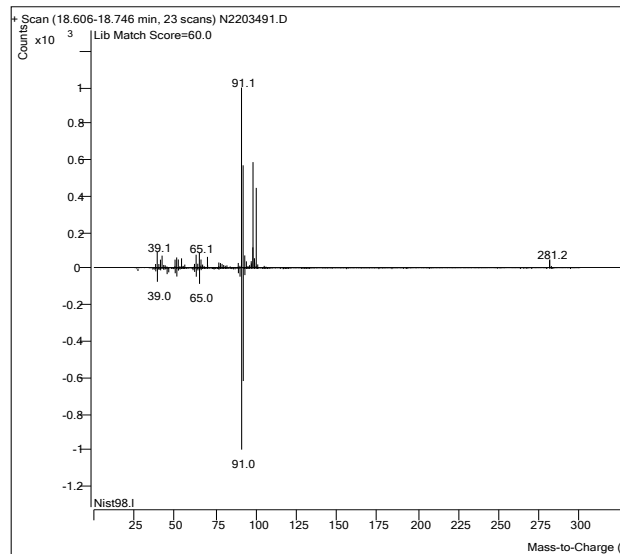
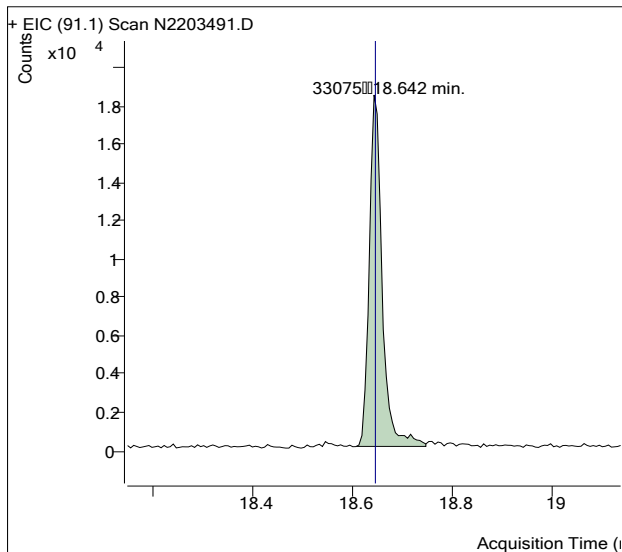
(m)=Manual Integration

Benzene

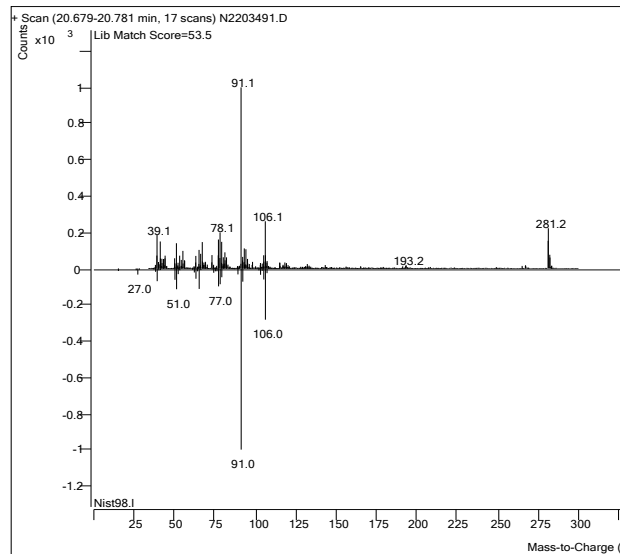
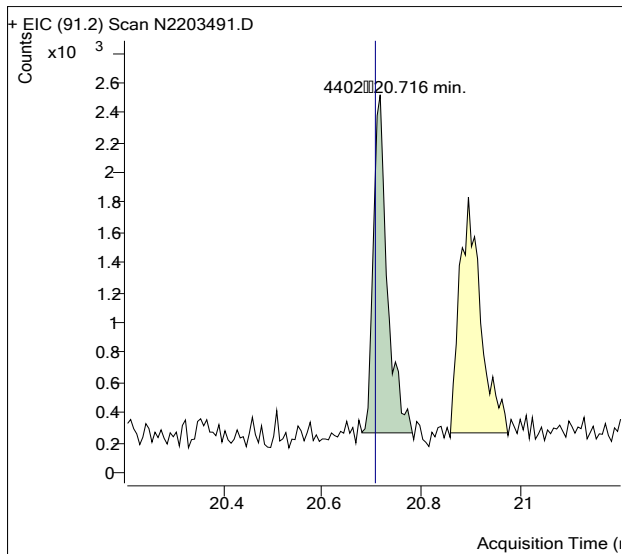


Sample Name : 2022EE101 Method Blank  
Sample Info : B12018  
Data File : N2203491.D  
Acquisition Date : 2022-10-31 07:07:25  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene

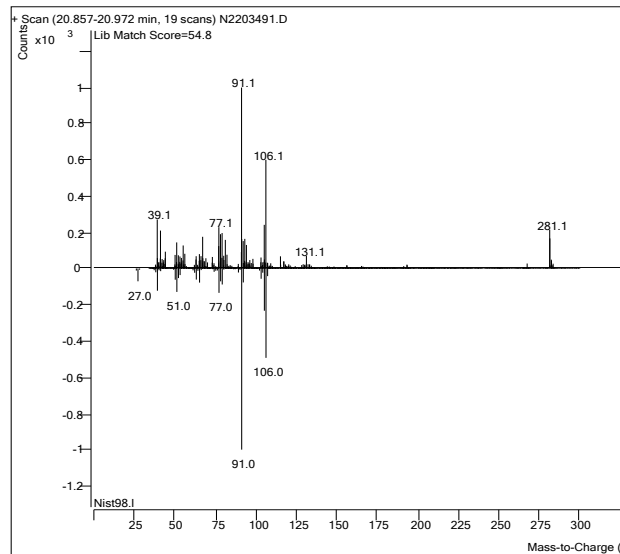
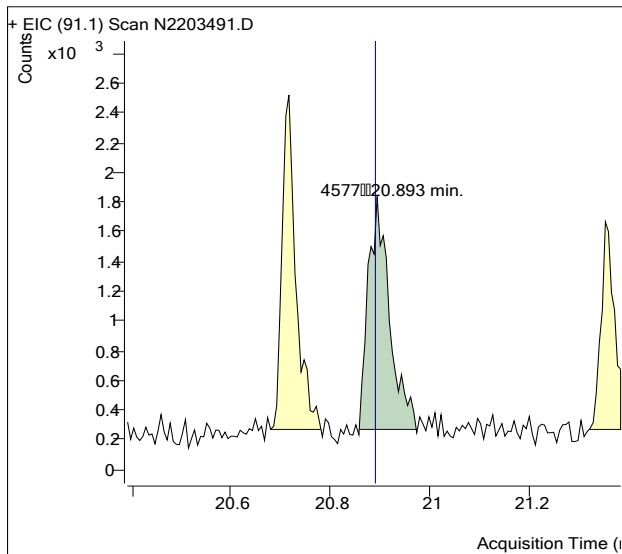


## Ethylbenzene

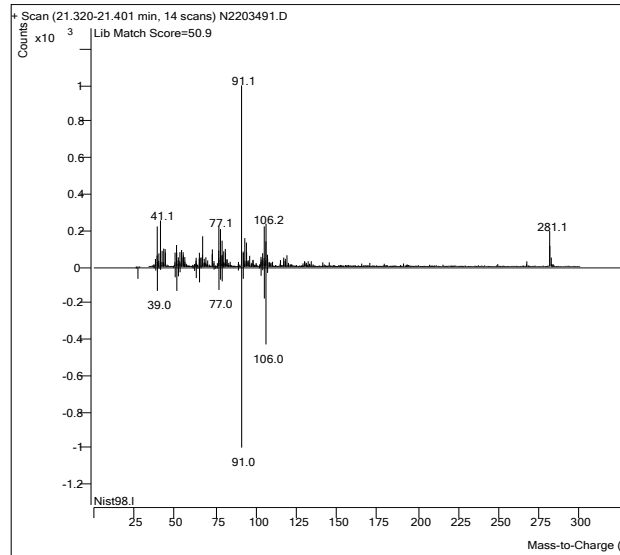
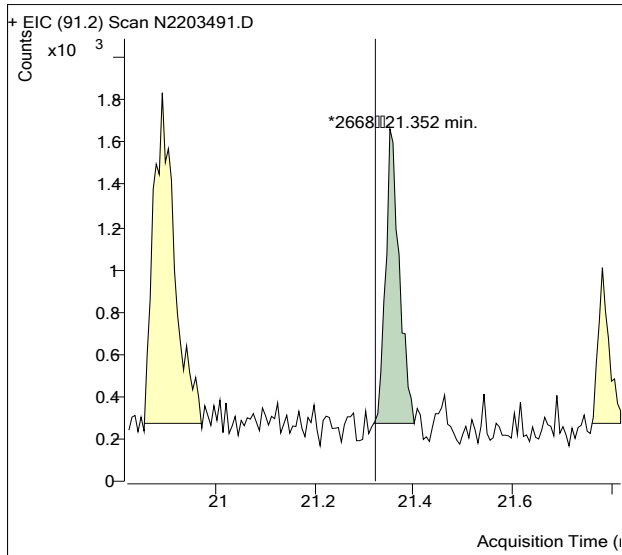


Sample Name : 2022EE101 Method Blank  
Sample Info : B12018  
Data File : N2203491.D  
Acquisition Date : 2022-10-31 07:07:25  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

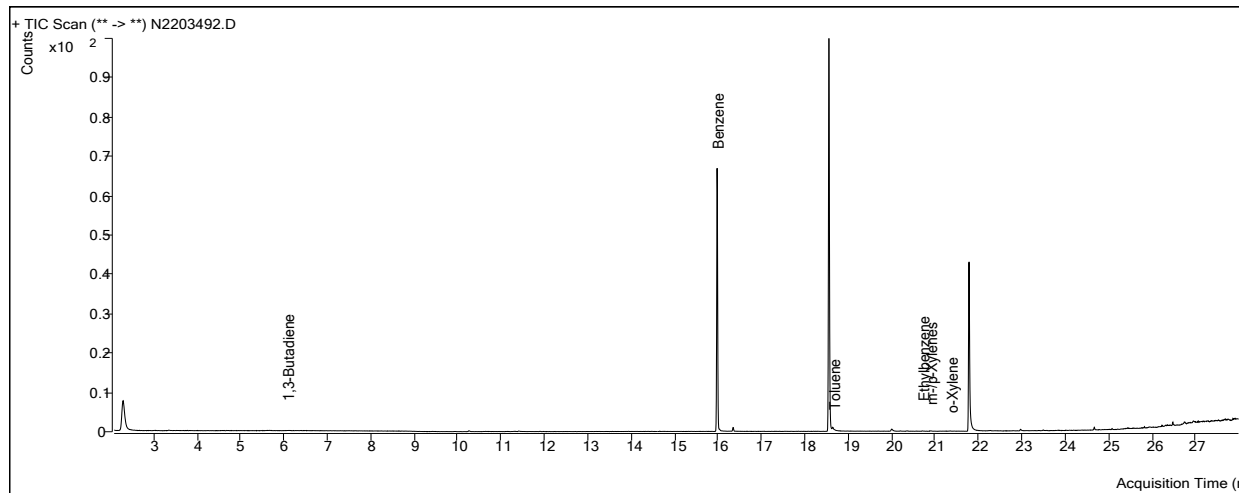
## m-/p-Xylenes



## o-Xylene



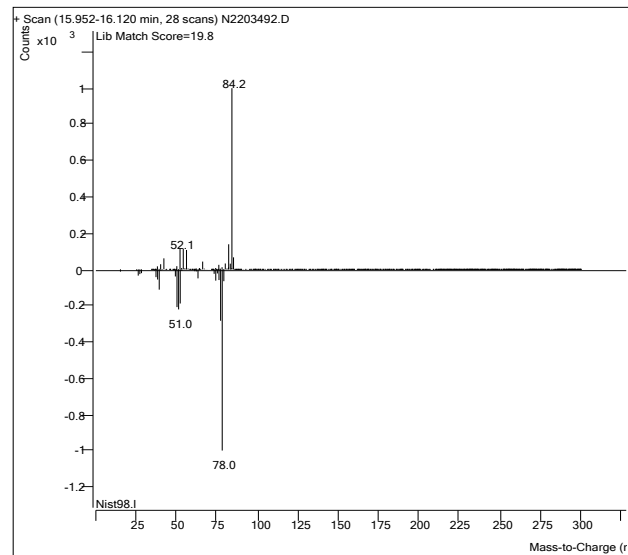
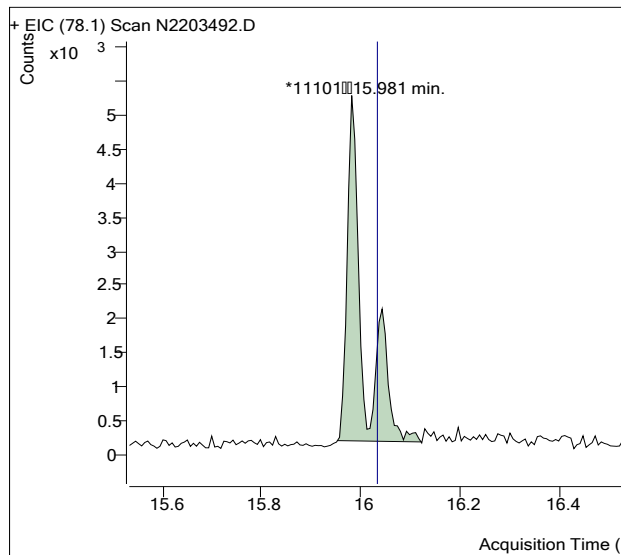
Sample Name : USSCL-PT10-B-20221011  
Sample Info : C24164  
Data File : N2203492.D  
Acquisition Date : 2022-10-31 07:47:13  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 1,062,820 |       |
| Benzene         | 16.03          | 11,101    | m     |
| Toluene-d8 (IS) | 18.55          | 1,244,643 |       |
| Toluene         | 18.64          | 7,260     |       |
| Ethylbenzene    | 20.70          | 1,230     |       |
| m-/p-Xylenes    | 20.89          | 1,638     |       |
| o-Xylene        | 21.32          | 904       | m     |

(m)=Manual Integration

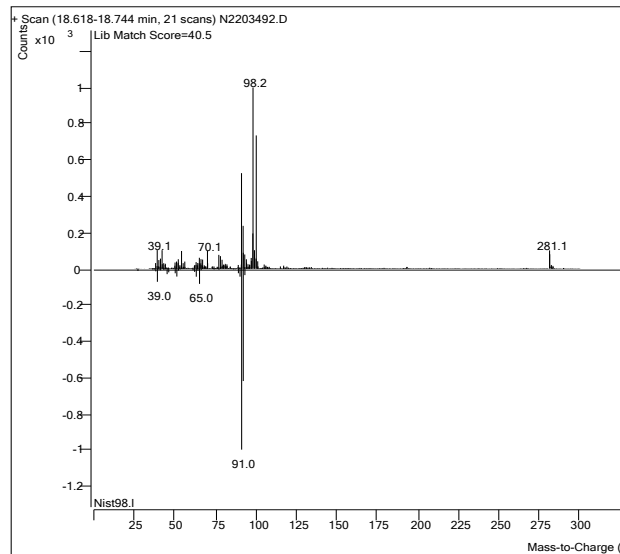
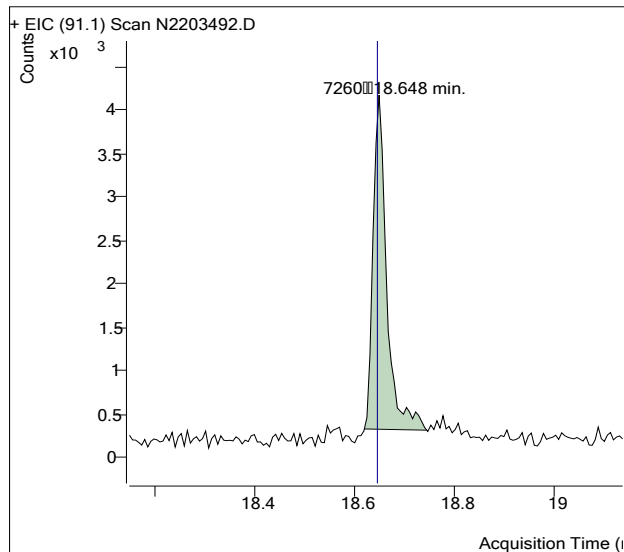
#### Benzene



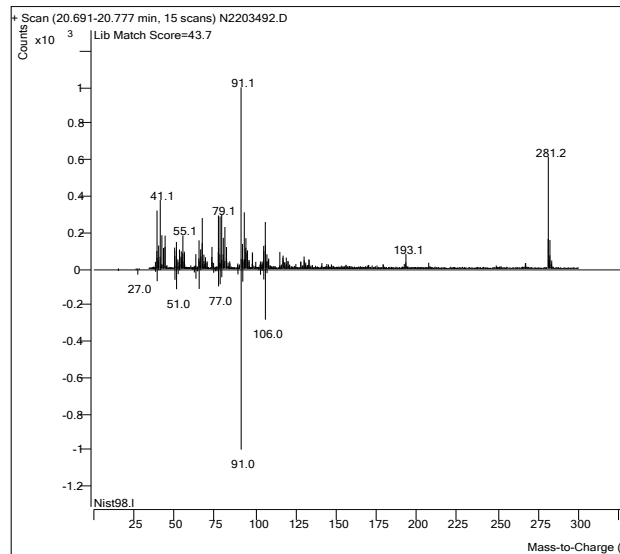
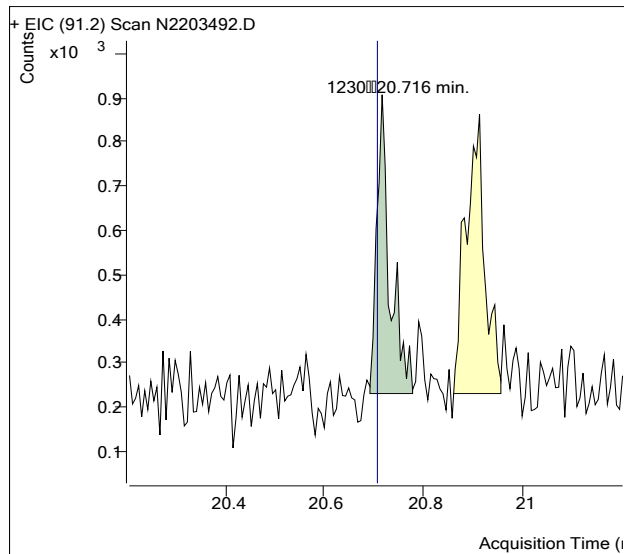


Sample Name : USSCL-PT10-B-20221011  
Sample Info : C24164  
Data File : N2203492.D  
Acquisition Date : 2022-10-31 07:47:13  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene

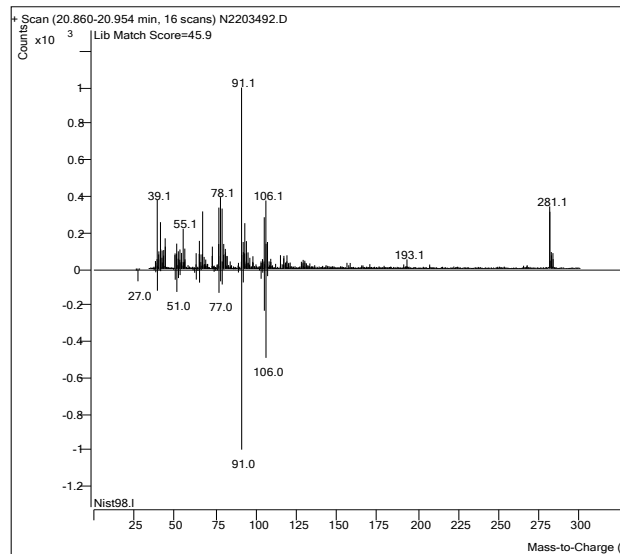
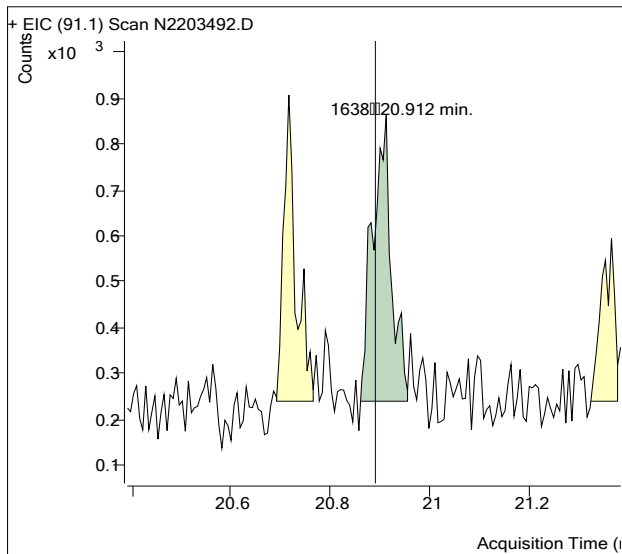


## Ethylbenzene

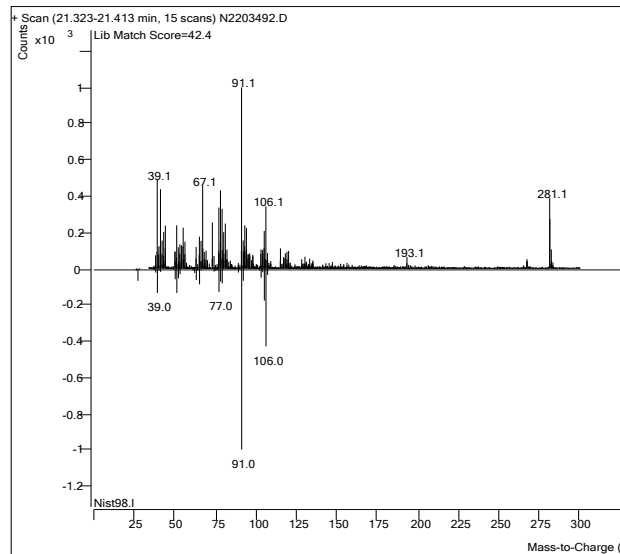
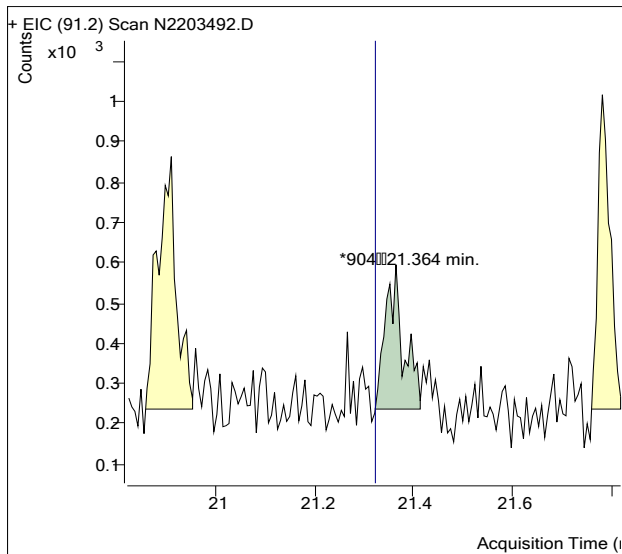


Sample Name : USSCL-PT10-B-20221011  
Sample Info : C24164  
Data File : N2203492.D  
Acquisition Date : 2022-10-31 07:47:13  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

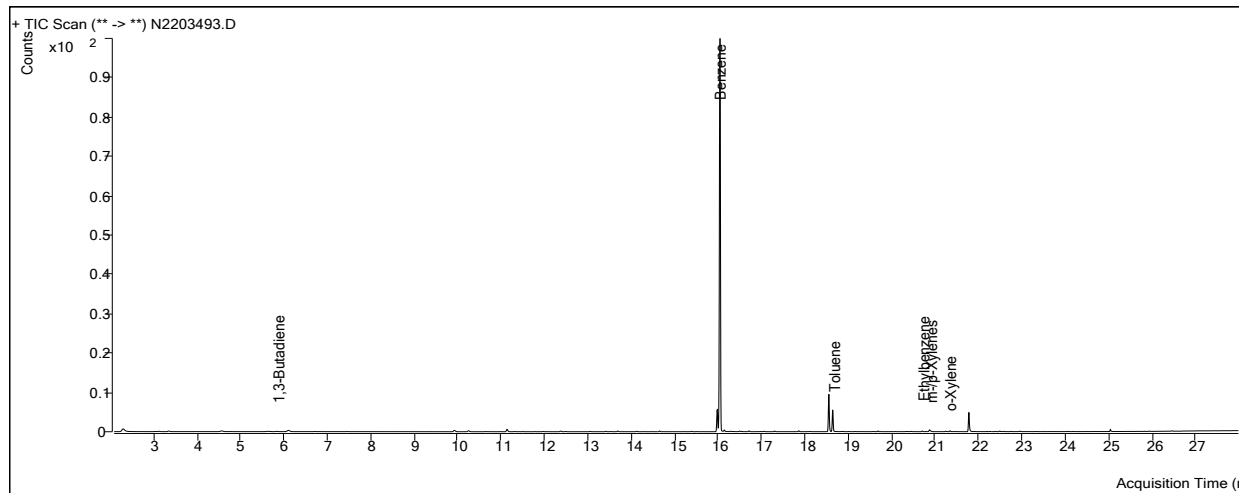
## m-/p-Xylenes



## o-Xylene



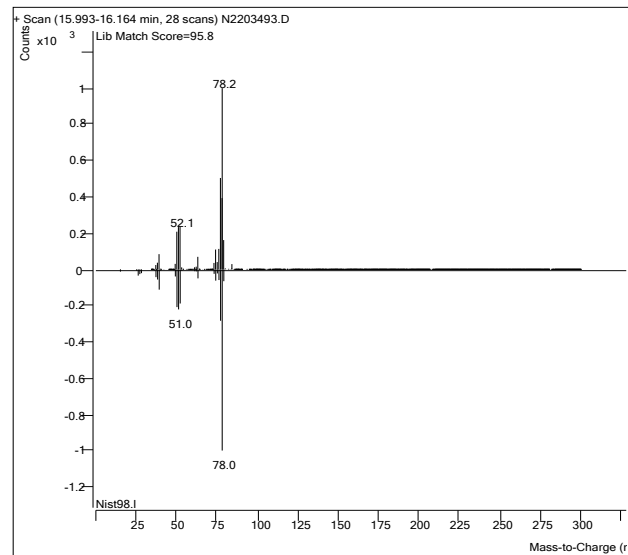
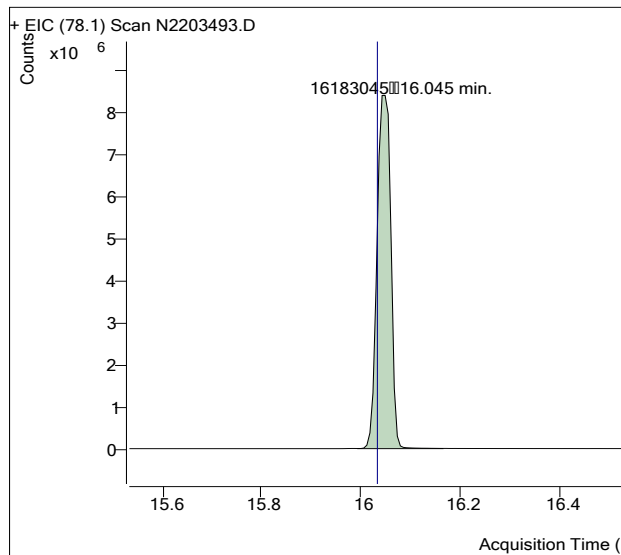
Sample Name : USSCL-PT01-S-20221011  
Sample Info : C01421  
Data File : N2203493.D  
Acquisition Date : 2022-10-31 08:27:24  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response   | Flags |
|-----------------|----------------|------------|-------|
| Benzene-d6 (IS) | 15.97          | 1,129,009  |       |
| Benzene         | 16.03          | 16,183,045 |       |
| Toluene-d8 (IS) | 18.55          | 1,334,310  |       |
| Toluene         | 18.64          | 849,077    |       |
| Ethylbenzene    | 20.70          | 29,270     |       |
| m-/p-Xylenes    | 20.89          | 82,594     |       |
| o-Xylene        | 21.32          | 27,948     |       |

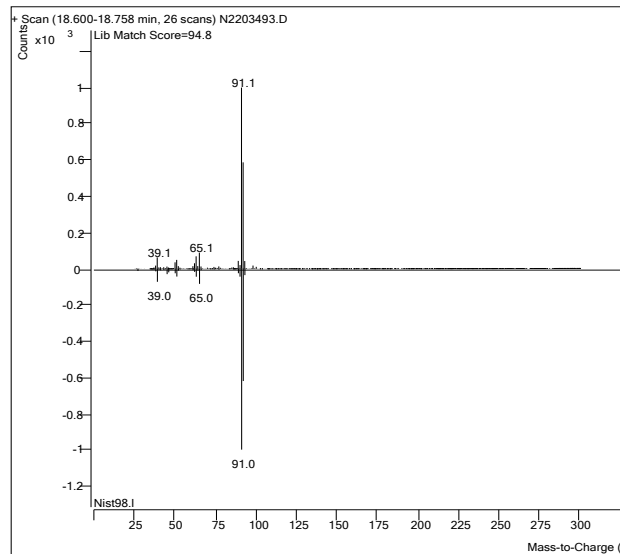
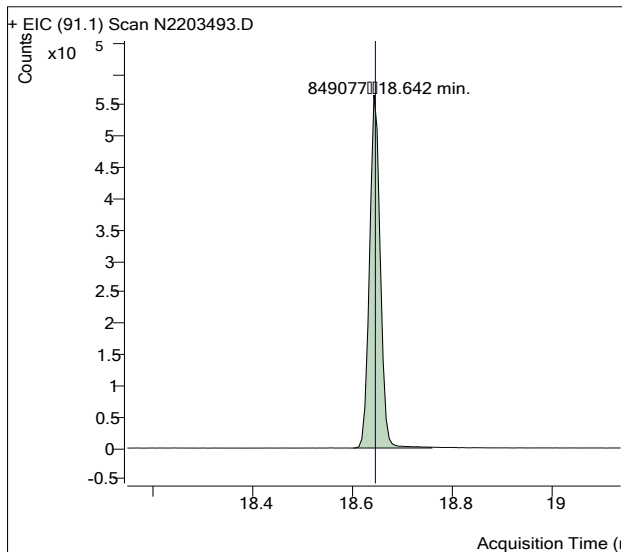
**(m)=Manual Integration**

**Benzene**

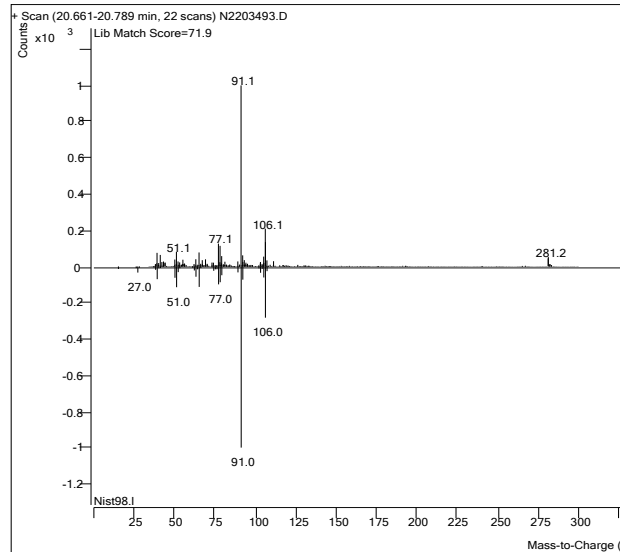
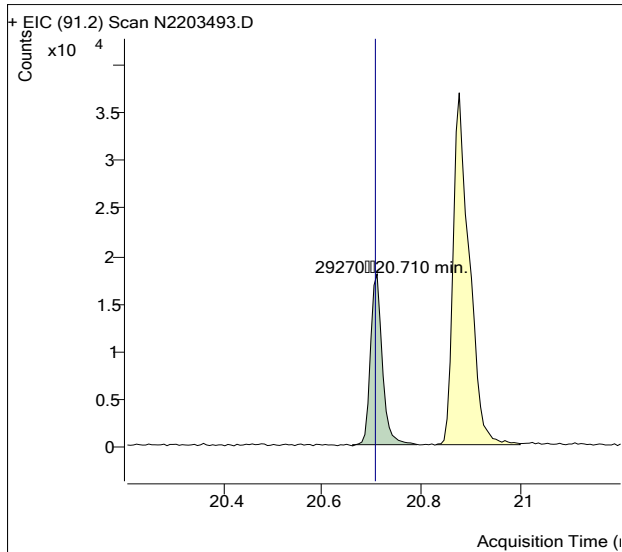


Sample Name : USSCL-PT01-S-20221011  
Sample Info : C01421  
Data File : N2203493.D  
Acquisition Date : 2022-10-31 08:27:24  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene

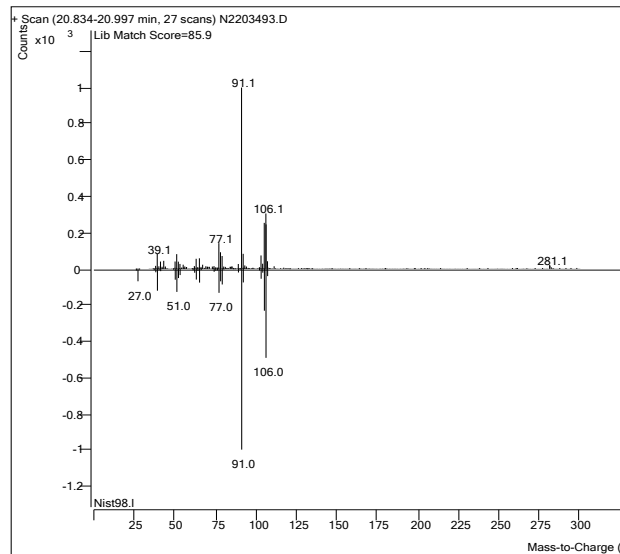
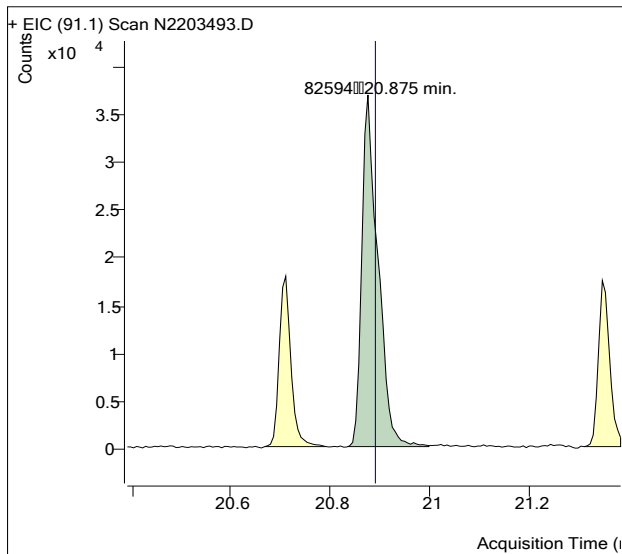


## Ethylbenzene

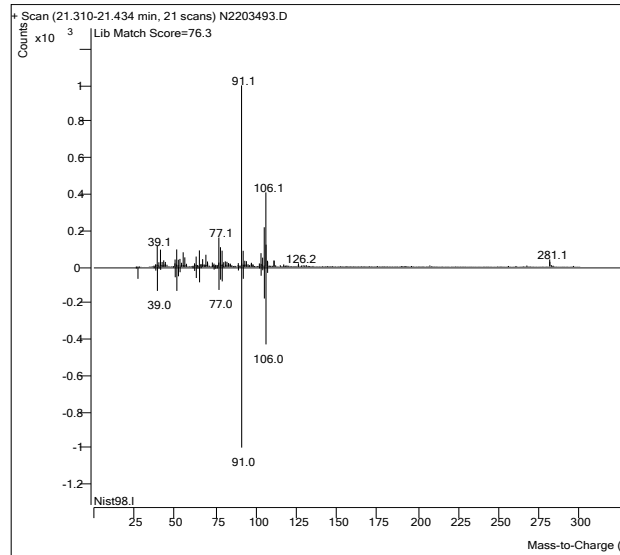
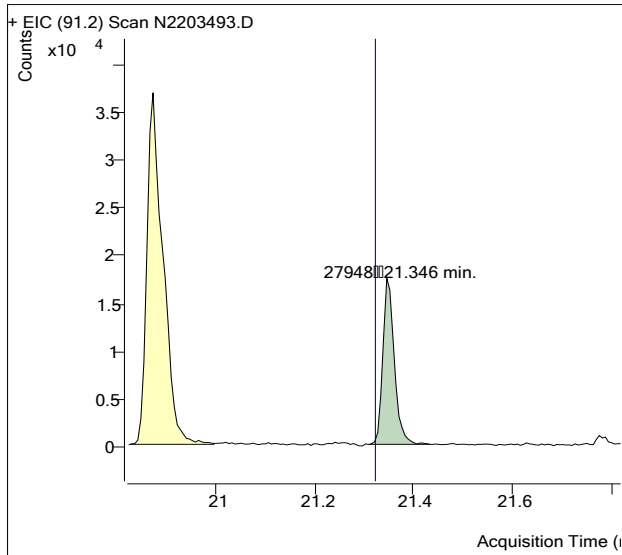


Sample Name : USSCL-PT01-S-20221011  
Sample Info : C01421  
Data File : N2203493.D  
Acquisition Date : 2022-10-31 08:27:24  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

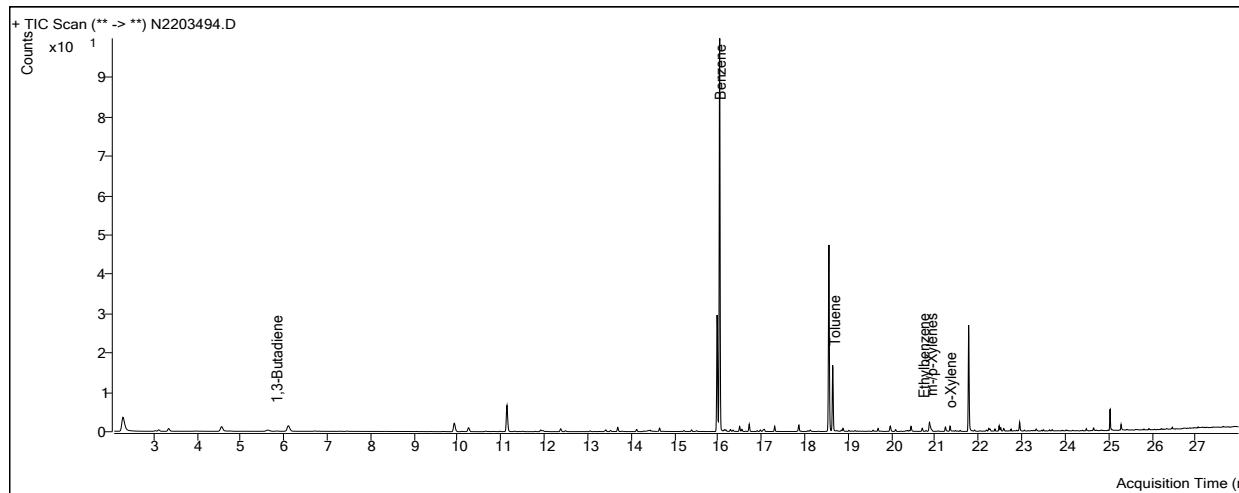
## m-/p-Xylenes



## o-Xylene



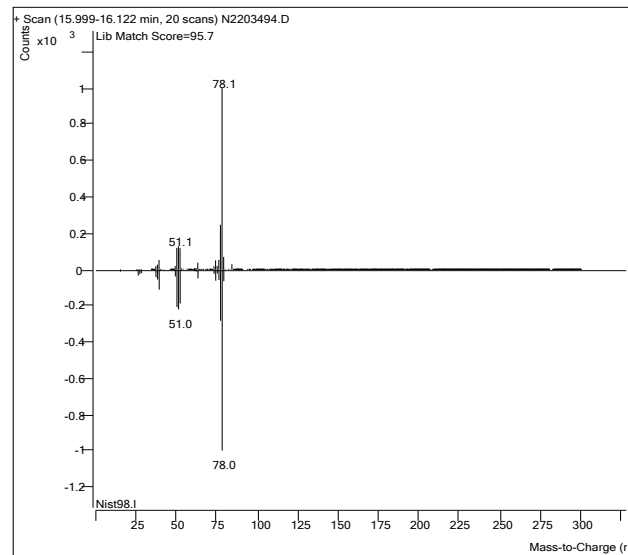
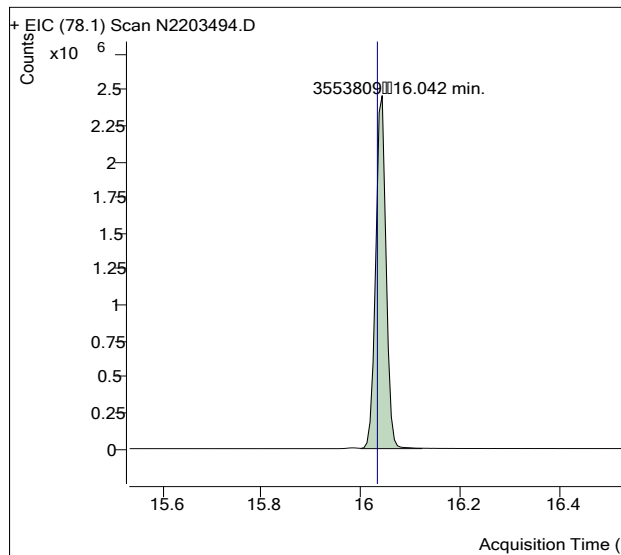
Sample Name : USSCL-PT02-S-20221011  
Sample Info : C24262  
Data File : N2203494.D  
Acquisition Date : 2022-10-31 09:07:28  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 1,154,731 |       |
| Benzene         | 16.03          | 3,553,809 |       |
| Toluene-d8 (IS) | 18.55          | 1,362,669 |       |
| Toluene         | 18.64          | 548,366   |       |
| Ethylbenzene    | 20.70          | 28,693    |       |
| m-/p-Xylenes    | 20.89          | 88,183    |       |
| o-Xylene        | 21.32          | 32,225    |       |

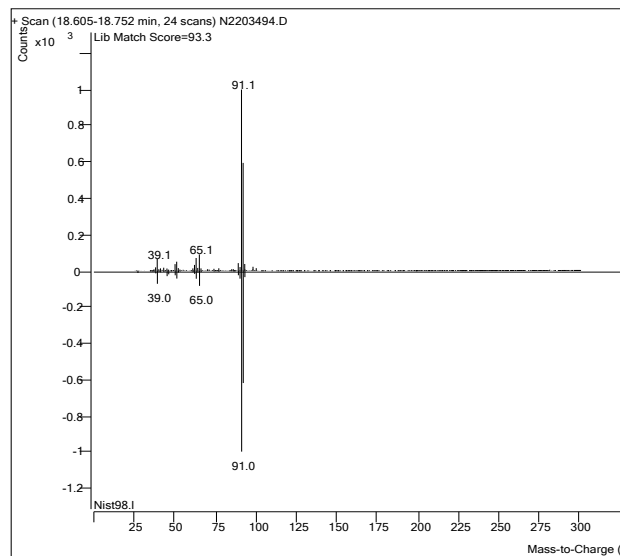
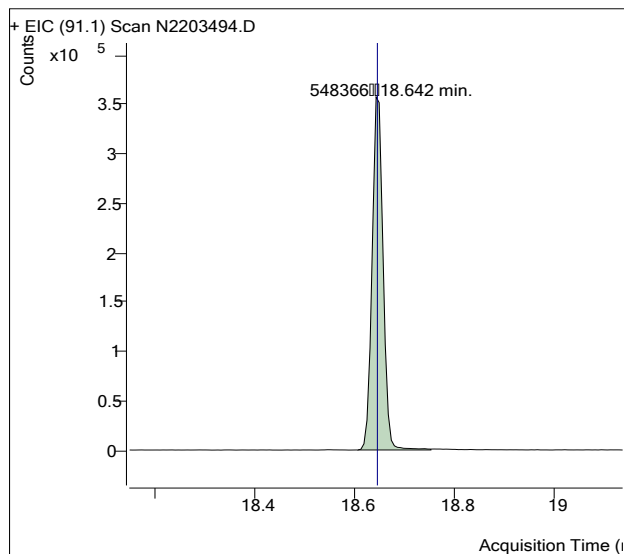
**(m)=Manual Integration**

**Benzene**

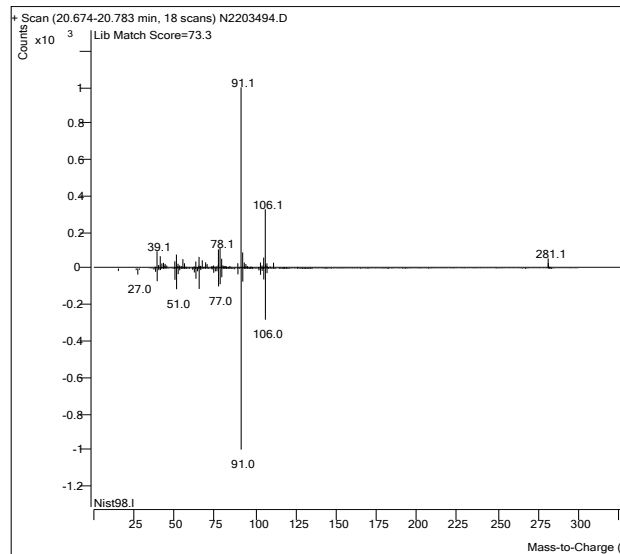
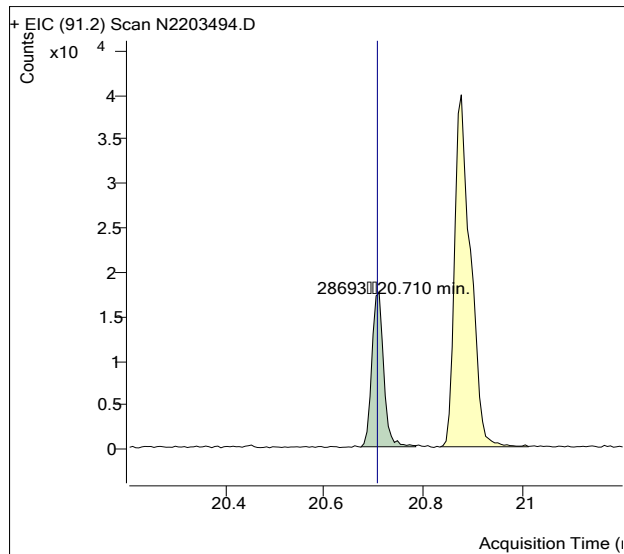


Sample Name : USSCL-PT02-S-20221011  
Sample Info : C24262  
Data File : N2203494.D  
Acquisition Date : 2022-10-31 09:07:28  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene

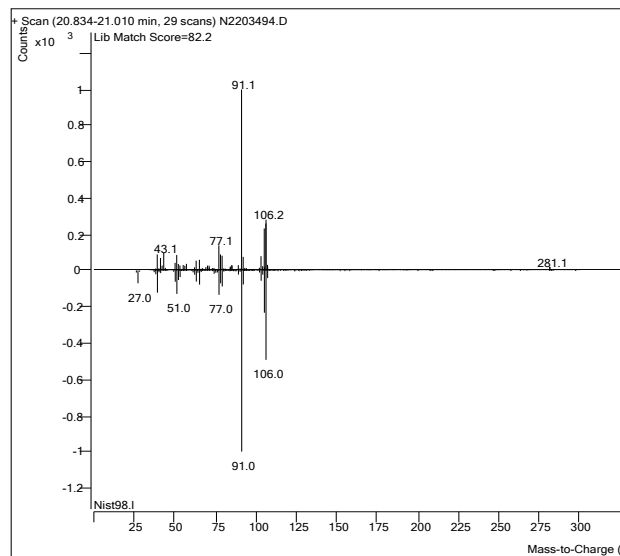
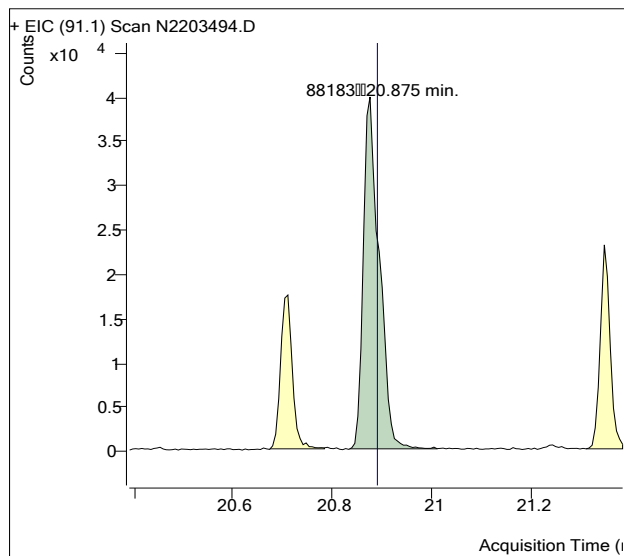


## Ethylbenzene

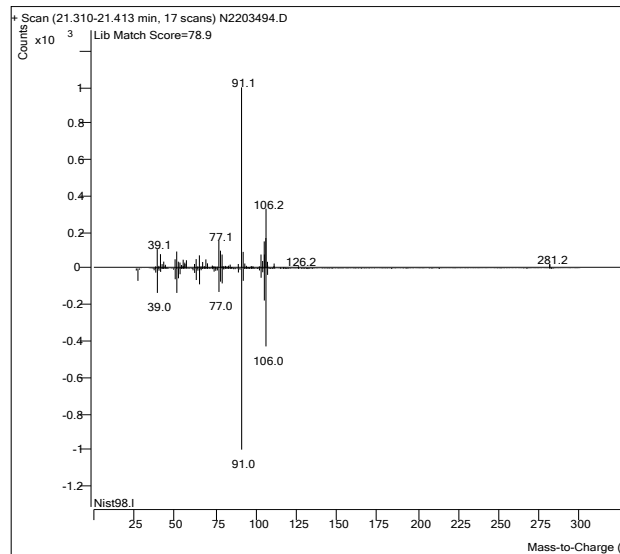
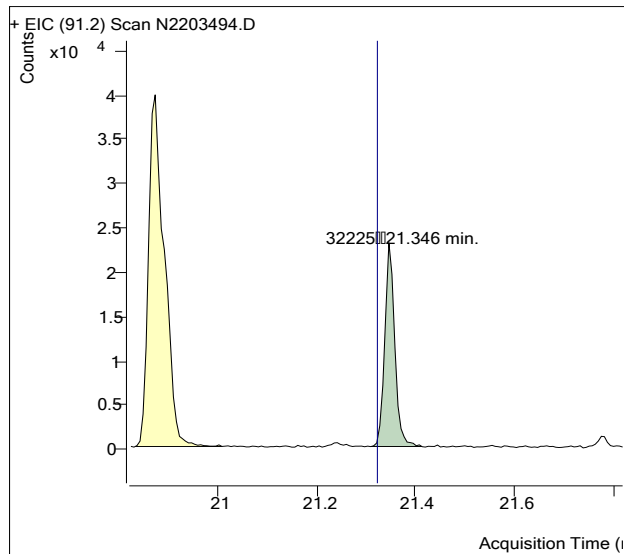


Sample Name : USSCL-PT02-S-20221011  
Sample Info : C24262  
Data File : N2203494.D  
Acquisition Date : 2022-10-31 09:07:28  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## m-/p-Xylenes

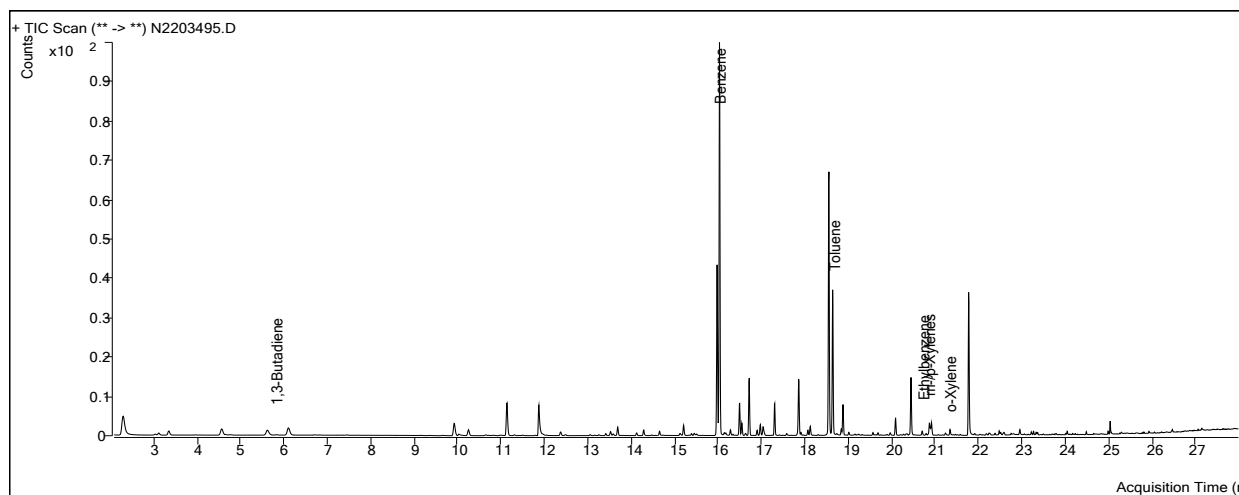


## o-Xylene





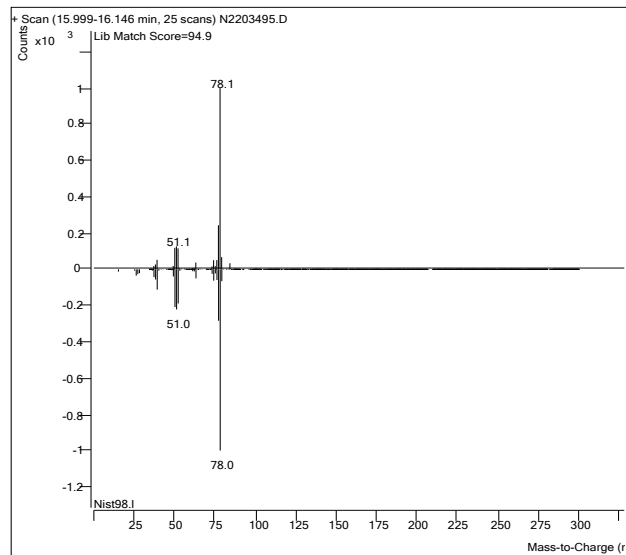
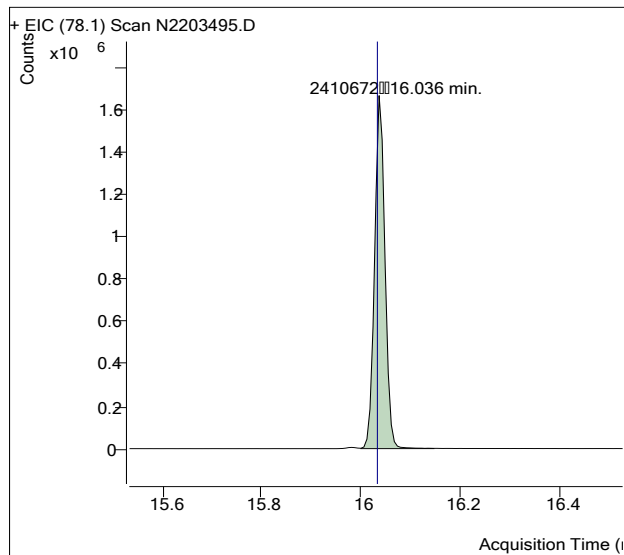
Sample Name : USSCL-PT03-S-20221011  
Sample Info : C01399  
Data File : N2203495.D  
Acquisition Date : 2022-10-31 09:47:15  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 1,146,634 |       |
| Benzene         | 16.03          | 2,410,672 |       |
| Toluene-d8 (IS) | 18.55          | 1,355,857 |       |
| Toluene         | 18.64          | 804,330   |       |
| Ethylbenzene    | 20.70          | 24,184    |       |
| m-/p-Xylenes    | 20.89          | 75,972    |       |
| o-Xylene        | 21.32          | 25,222    |       |

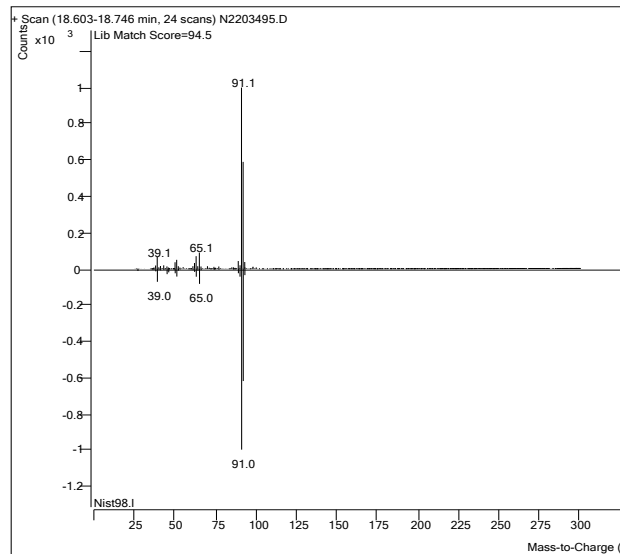
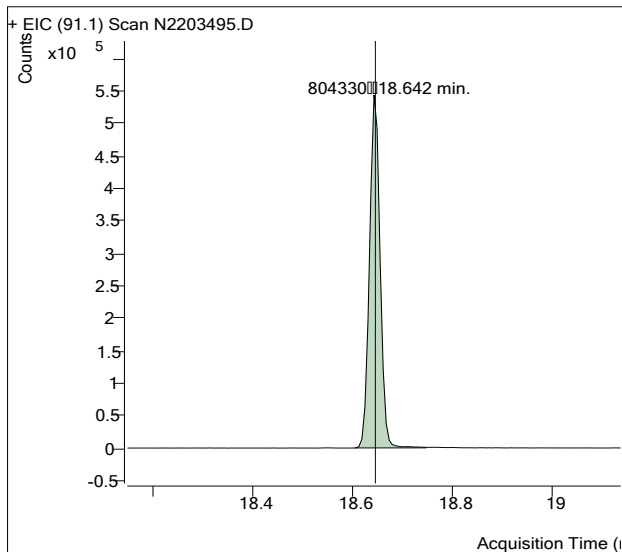
**(m)=Manual Integration**

**Benzene**

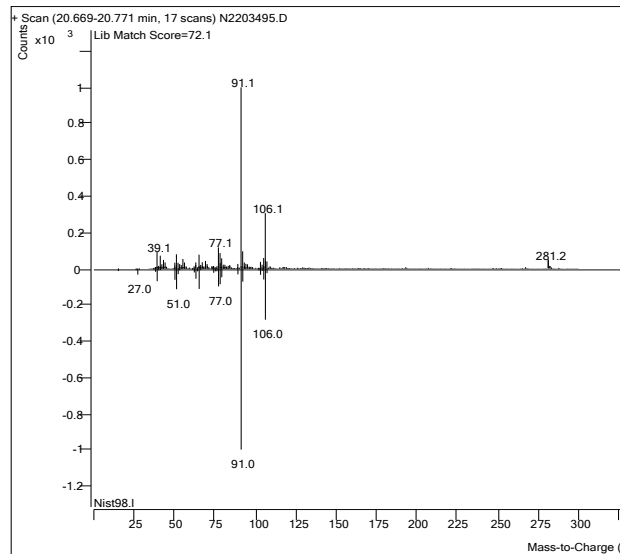
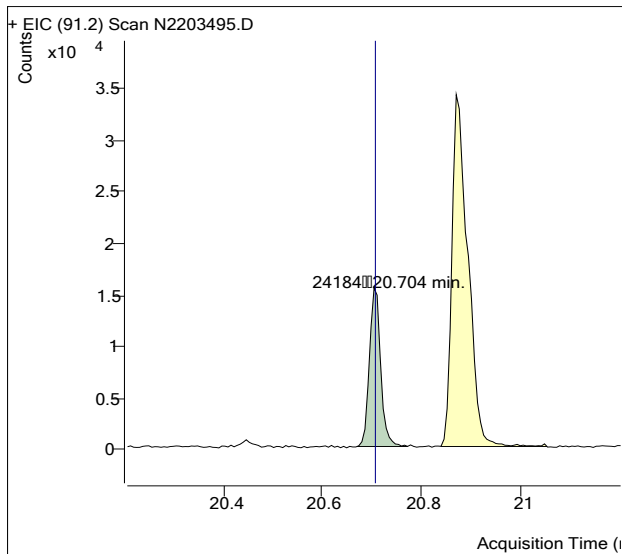


Sample Name : USSCL-PT03-S-20221011  
Sample Info : C01399  
Data File : N2203495.D  
Acquisition Date : 2022-10-31 09:47:15  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene

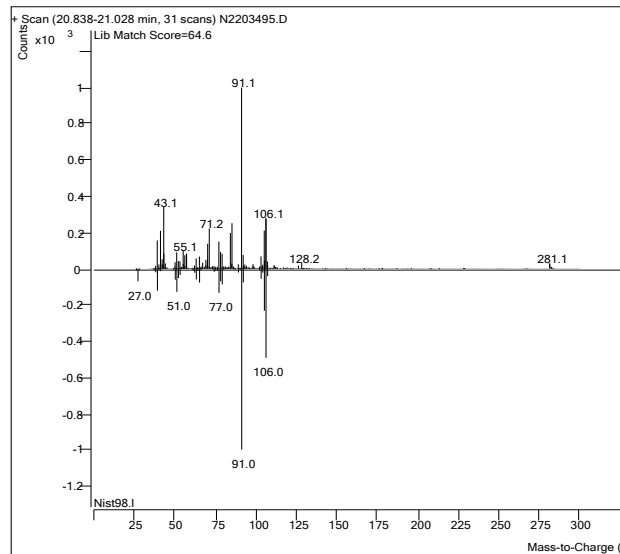
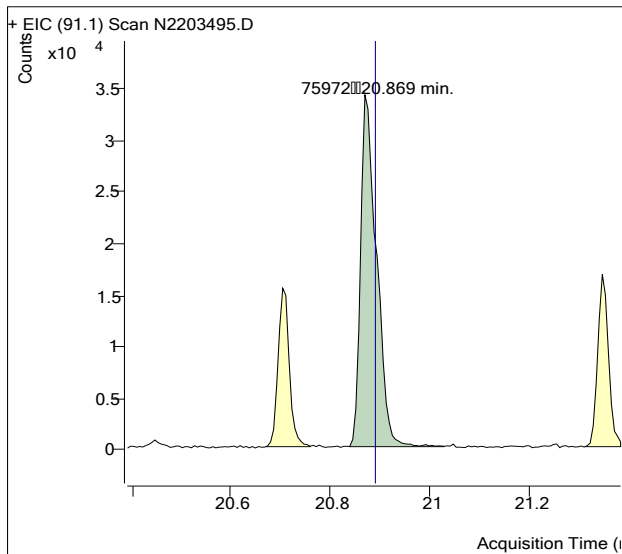


## Ethylbenzene

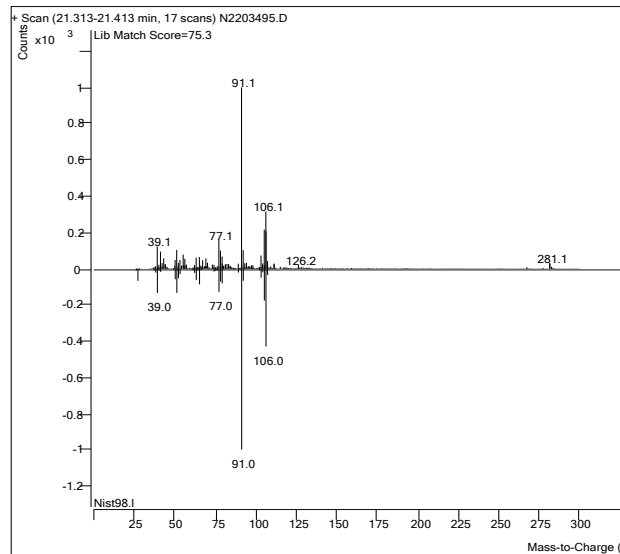
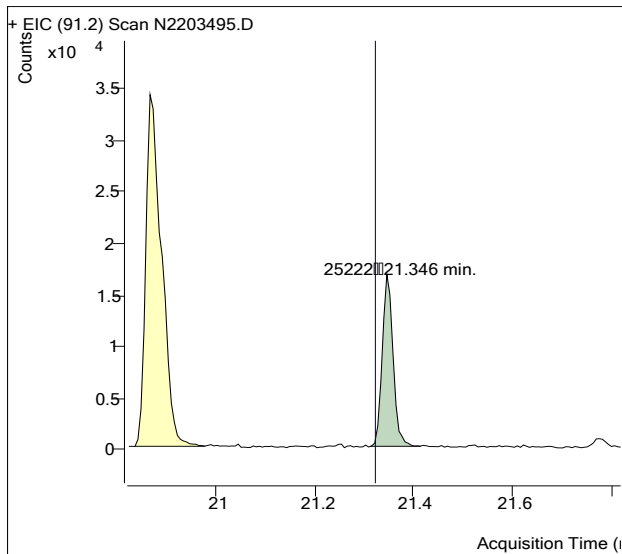


Sample Name : USSCL-PT03-S-20221011  
Sample Info : C01399  
Data File : N2203495.D  
Acquisition Date : 2022-10-31 09:47:15  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

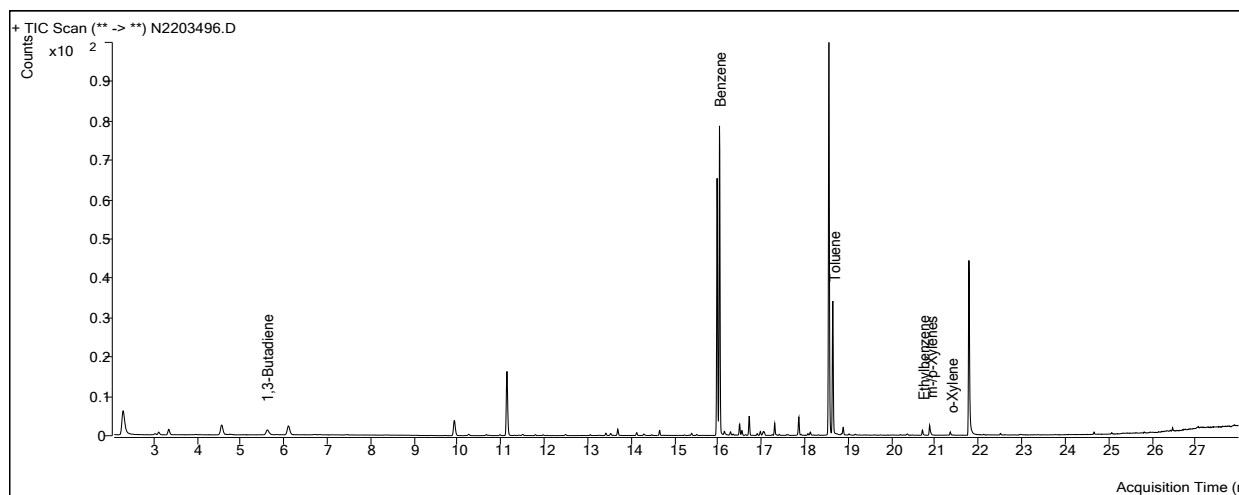
## m-/p-Xylenes



## o-Xylene



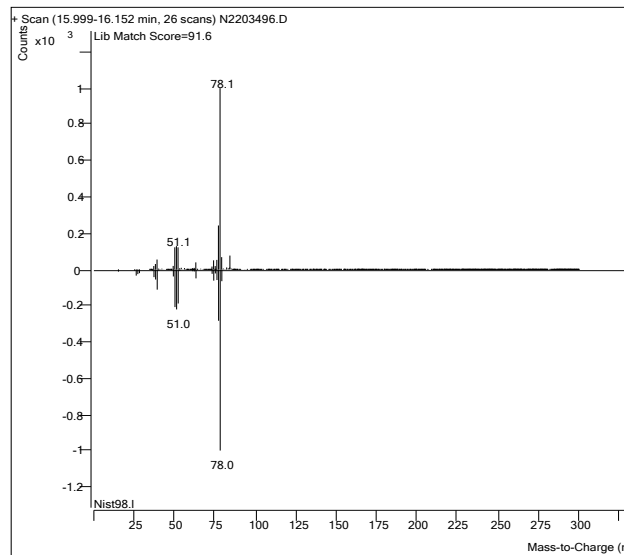
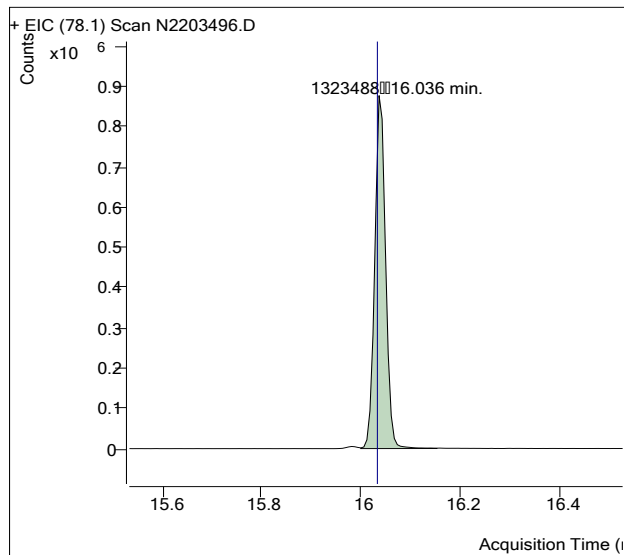
Sample Name : USSCL-PT04-S-20221011  
Sample Info : B15349  
Data File : N2203496.D  
Acquisition Date : 2022-10-31 10:27:02  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 1,166,738 |       |
| Benzene         | 16.03          | 1,323,488 |       |
| Toluene-d8 (IS) | 18.55          | 1,367,253 |       |
| Toluene         | 18.64          | 531,634   |       |
| Ethylbenzene    | 20.70          | 23,208    |       |
| m-/p-Xylenes    | 20.89          | 38,419    |       |
| o-Xylene        | 21.32          | 11,471    |       |

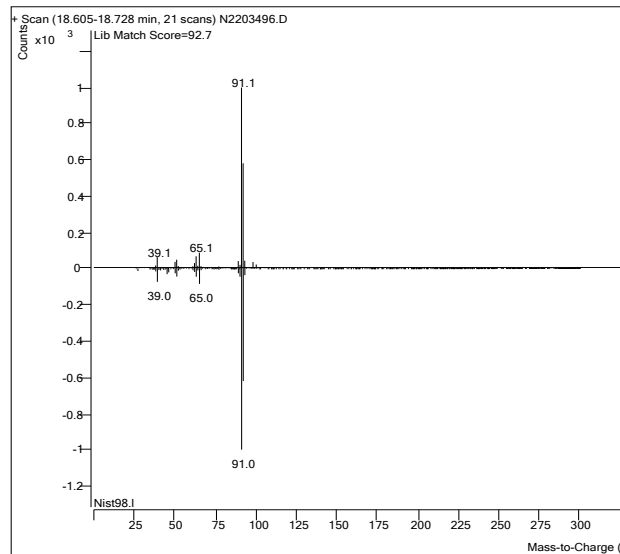
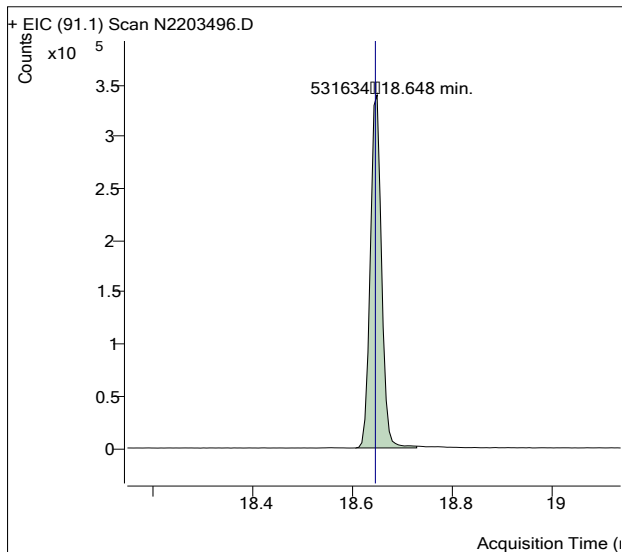
**(m)=Manual Integration**

**Benzene**

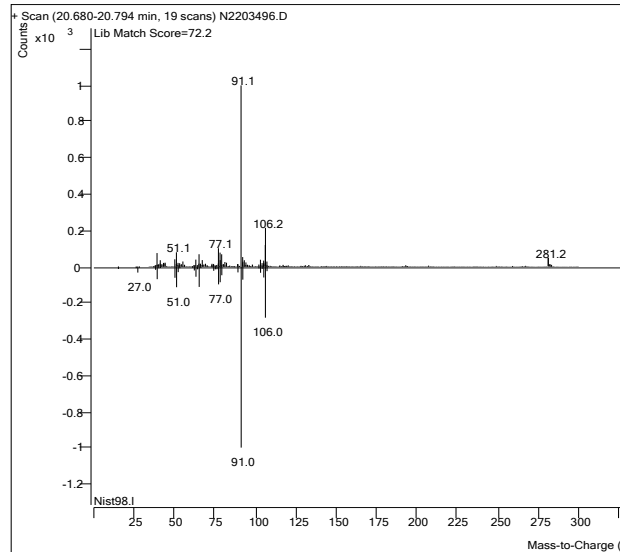
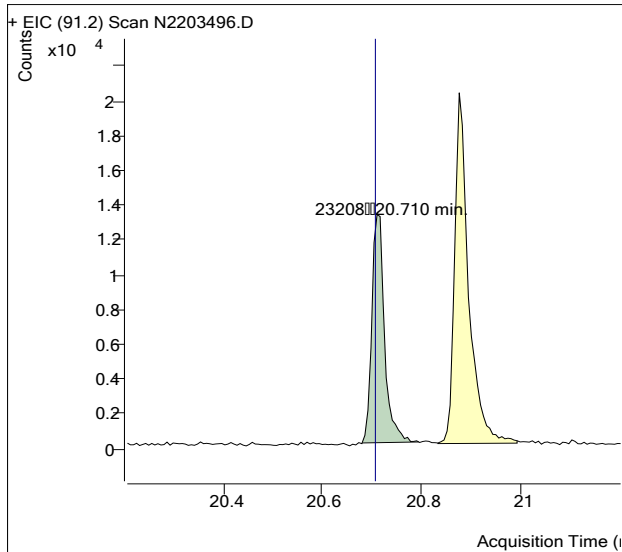


Sample Name : USSCL-PT04-S-20221011  
Sample Info : B15349  
Data File : N2203496.D  
Acquisition Date : 2022-10-31 10:27:02  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene

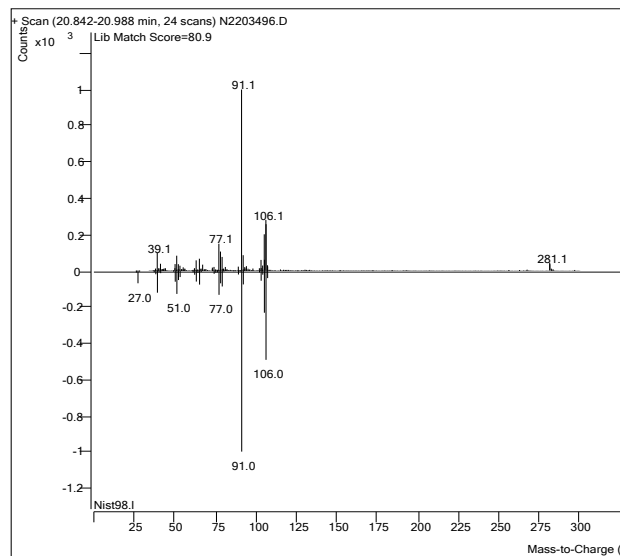
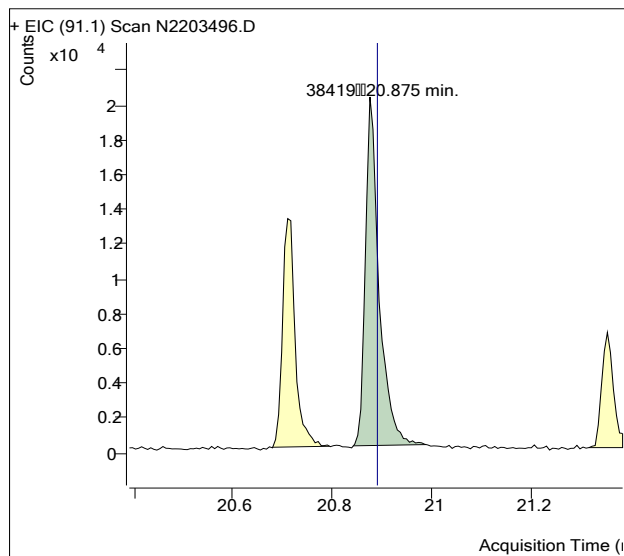


## Ethylbenzene

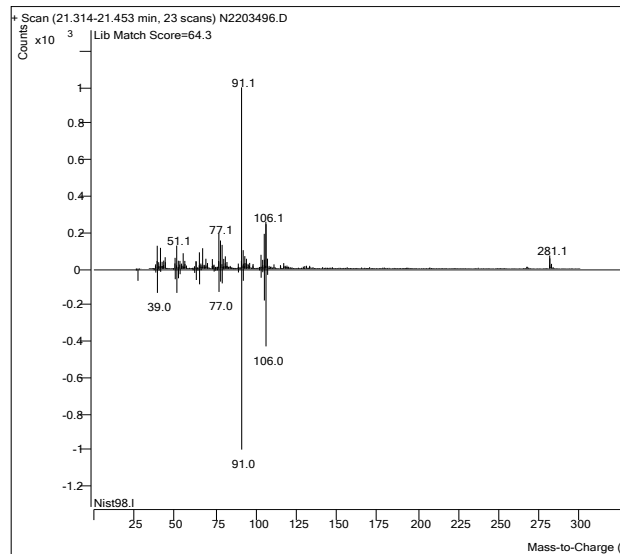
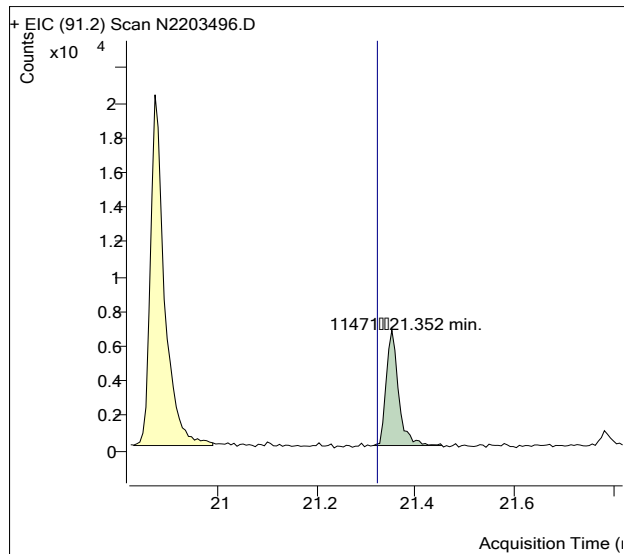


Sample Name : USSCL-PT04-S-20221011  
Sample Info : B15349  
Data File : N2203496.D  
Acquisition Date : 2022-10-31 10:27:02  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

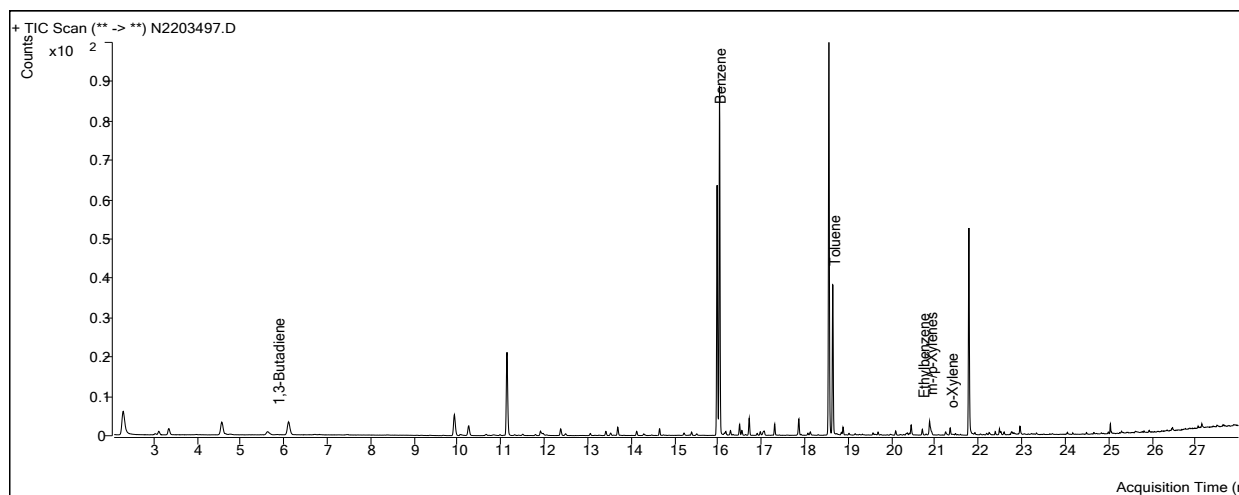
## m-/p-Xylenes



## o-Xylene



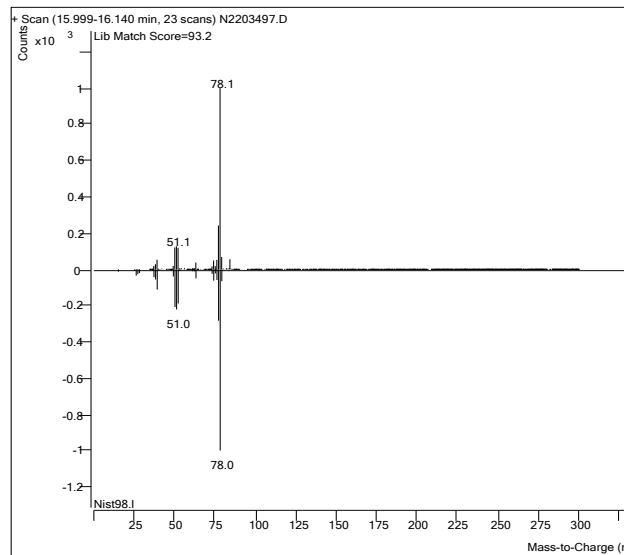
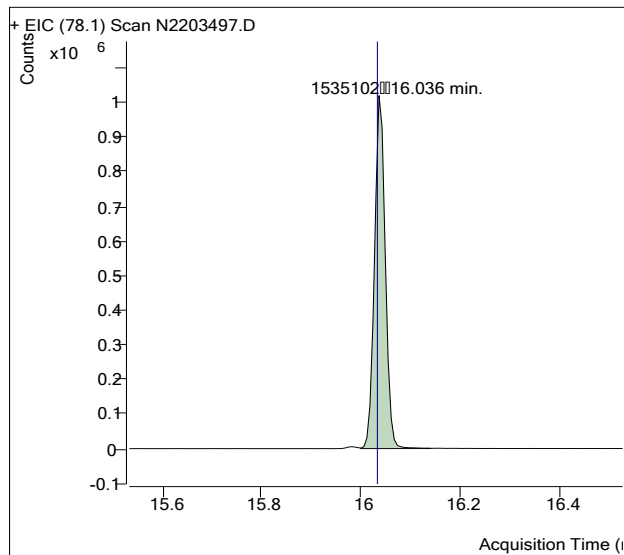
Sample Name : USSCL-PT05-S-20221011  
Sample Info : C20430  
Data File : N2203497.D  
Acquisition Date : 2022-10-31 11:06:49  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 1,157,270 |       |
| Benzene         | 16.03          | 1,535,102 |       |
| Toluene-d8 (IS) | 18.55          | 1,353,855 |       |
| Toluene         | 18.64          | 601,698   |       |
| Ethylbenzene    | 20.70          | 24,186    |       |
| m-/p-Xylenes    | 20.89          | 63,304    |       |
| o-Xylene        | 21.32          | 23,062    |       |

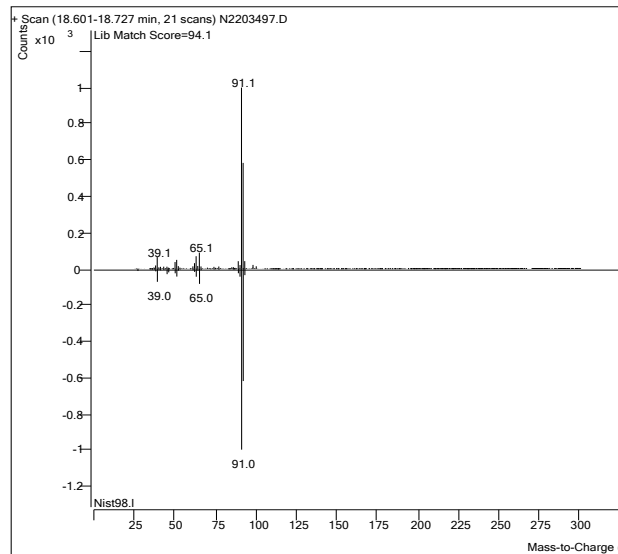
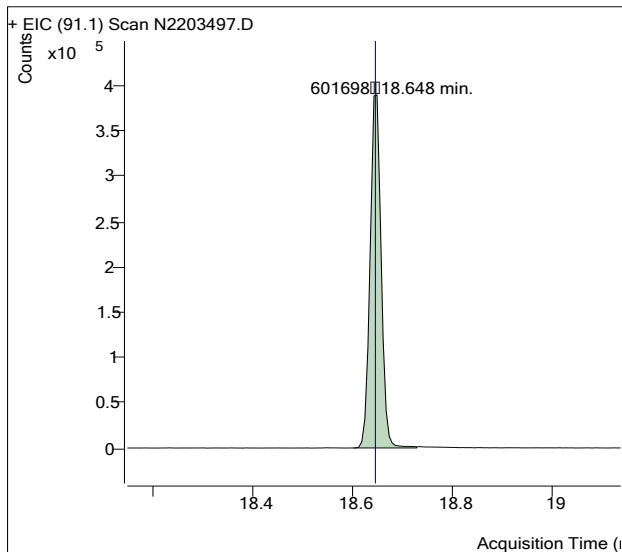
**(m)=Manual Integration**

**Benzene**

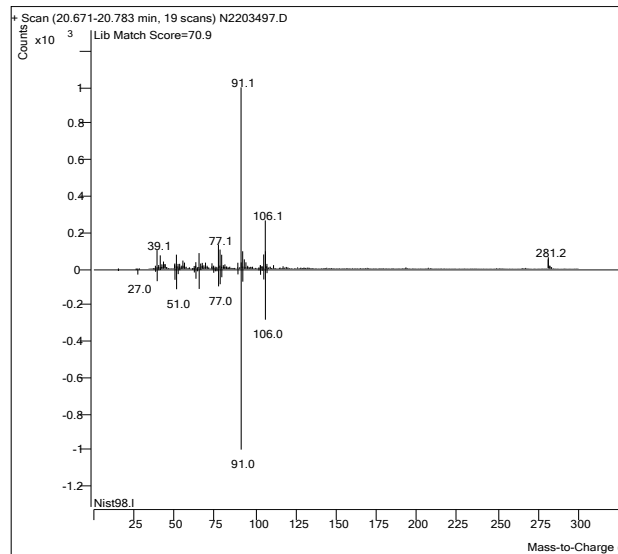
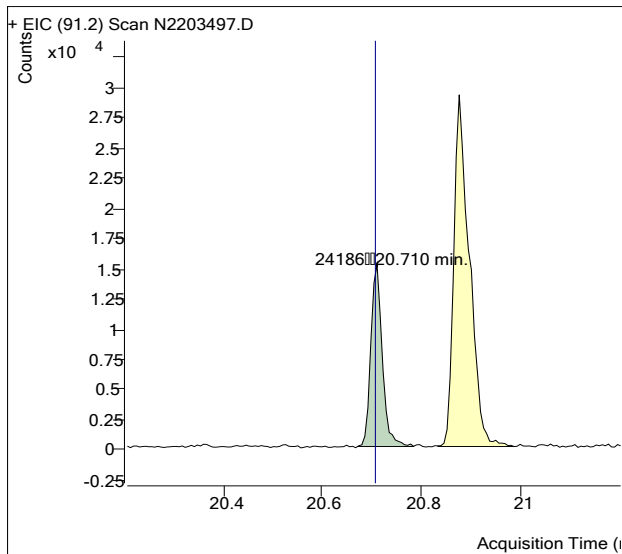


Sample Name : USSCL-PT05-S-20221011  
Sample Info : C20430  
Data File : N2203497.D  
Acquisition Date : 2022-10-31 11:06:49  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene



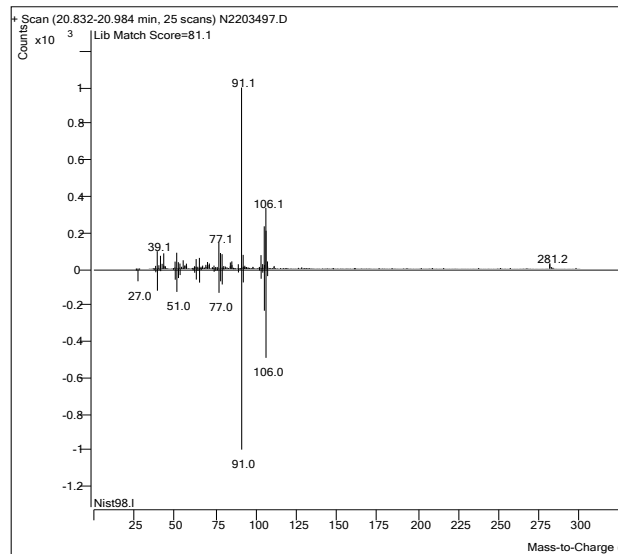
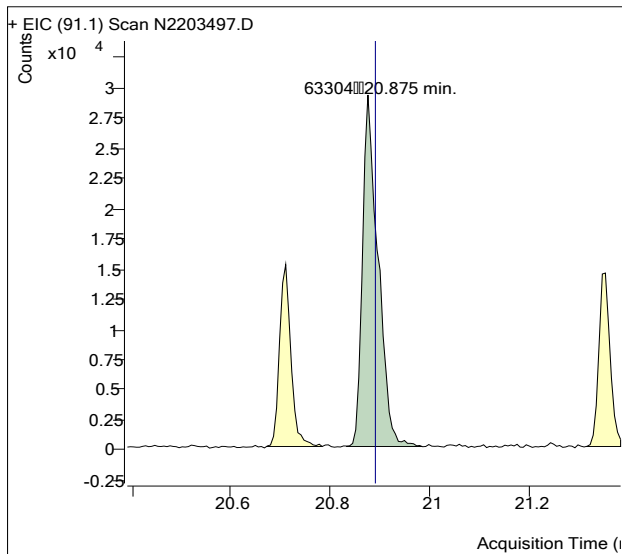
## Ethylbenzene



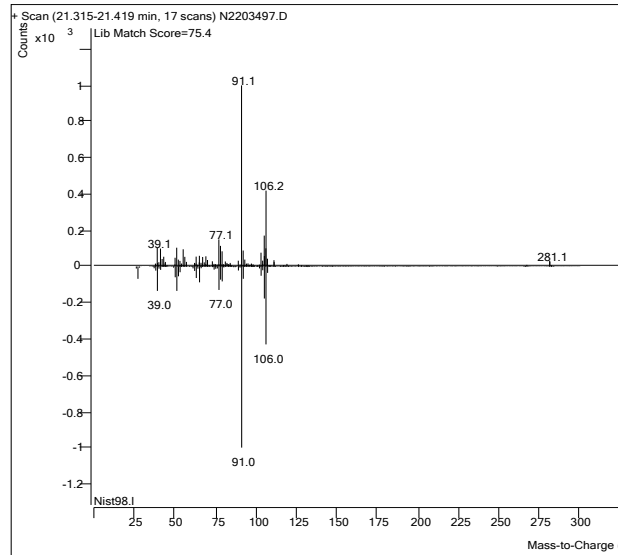
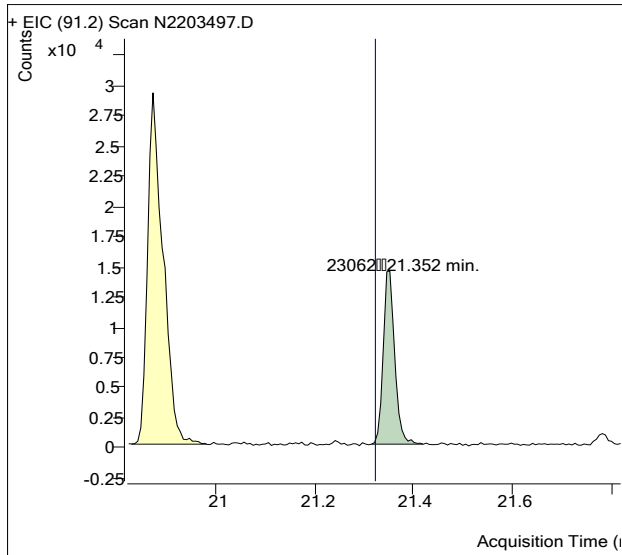


Sample Name : USSCL-PT05-S-20221011  
Sample Info : C20430  
Data File : N2203497.D  
Acquisition Date : 2022-10-31 11:06:49  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

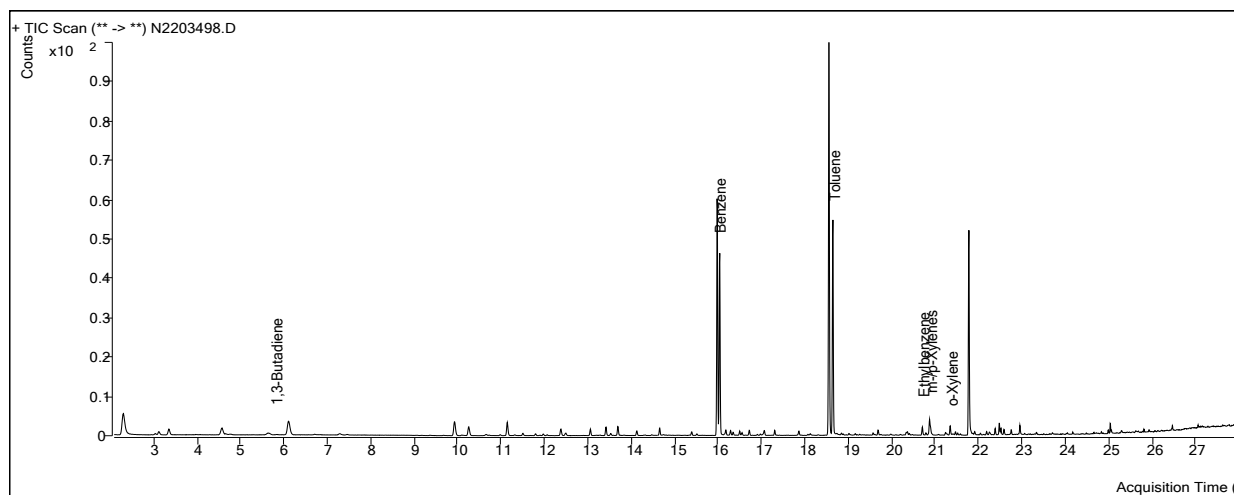
## m-/p-Xylenes



## o-Xylene



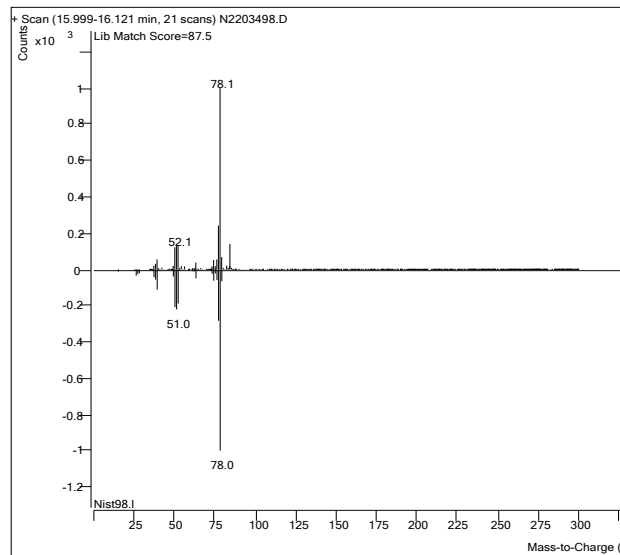
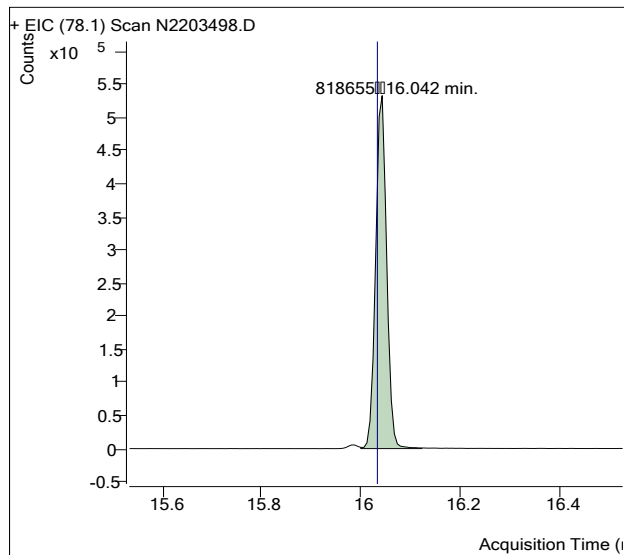
Sample Name : USSCL-PT06-S-20221011  
Sample Info : B48097  
Data File : N2203498.D  
Acquisition Date : 2022-10-31 11:46:49  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 1,139,221 |       |
| Benzene         | 16.03          | 818,655   |       |
| Toluene-d8 (IS) | 18.55          | 1,348,008 |       |
| Toluene         | 18.64          | 827,924   |       |
| Ethylbenzene    | 20.70          | 33,817    |       |
| m-/p-Xylenes    | 20.89          | 69,894    |       |
| o-Xylene        | 21.32          | 28,612    |       |

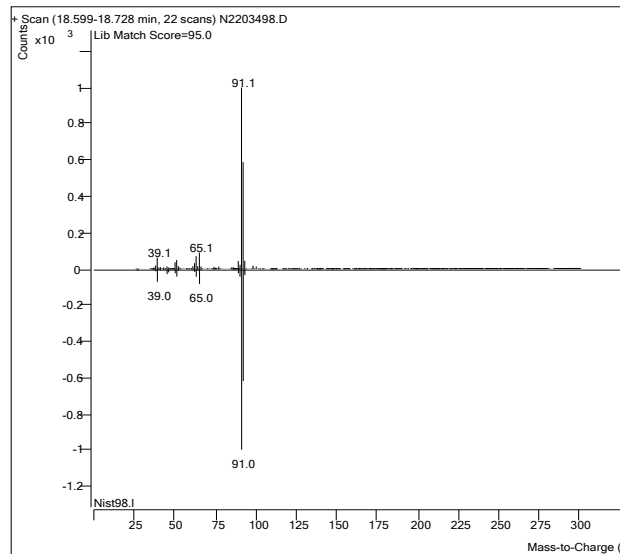
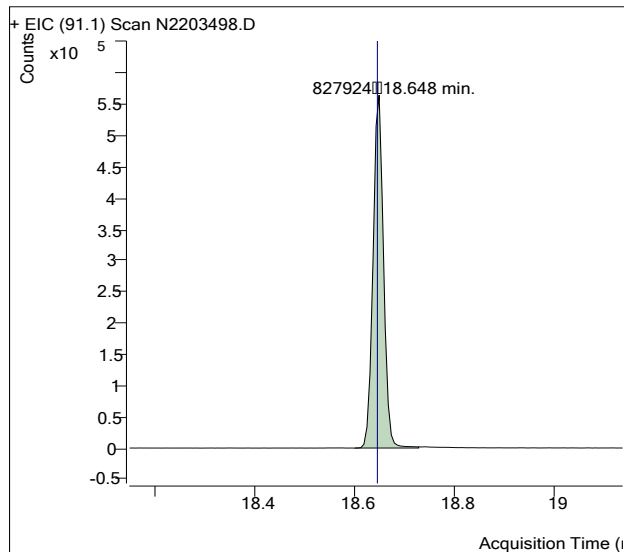
**(m)=Manual Integration**

**Benzene**

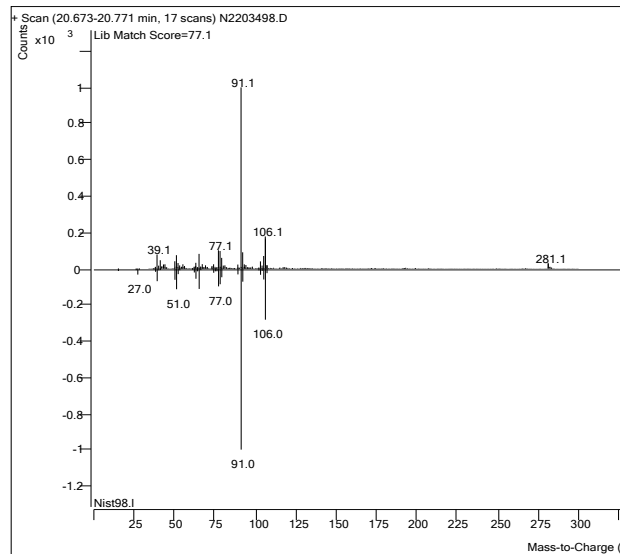
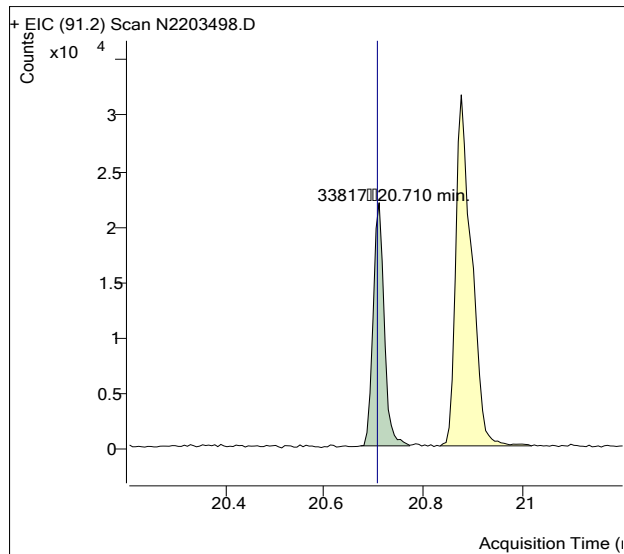


Sample Name : USSCL-PT06-S-20221011  
Sample Info : B48097  
Data File : N2203498.D  
Acquisition Date : 2022-10-31 11:46:49  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene

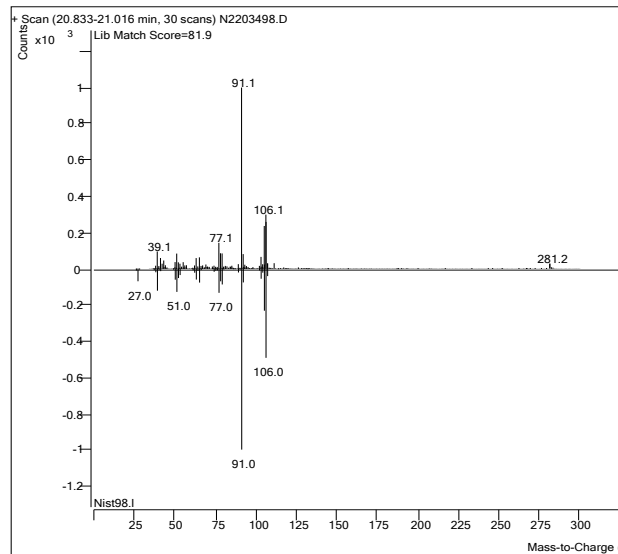
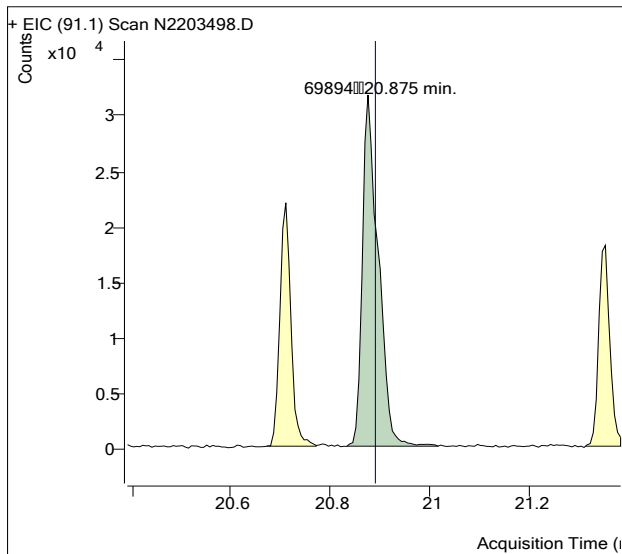


## Ethylbenzene

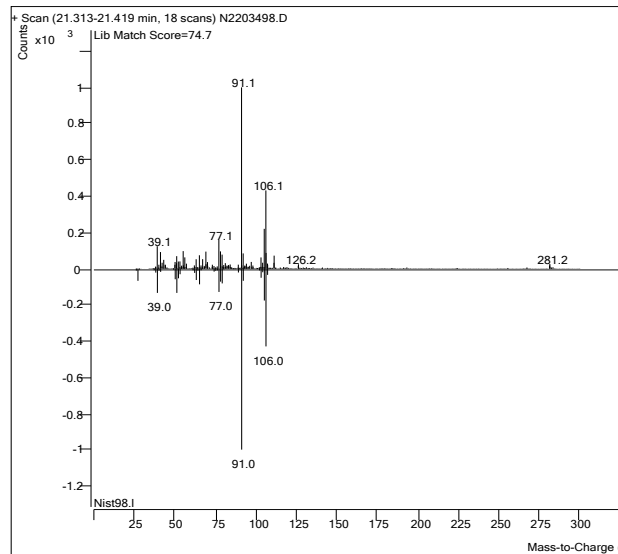
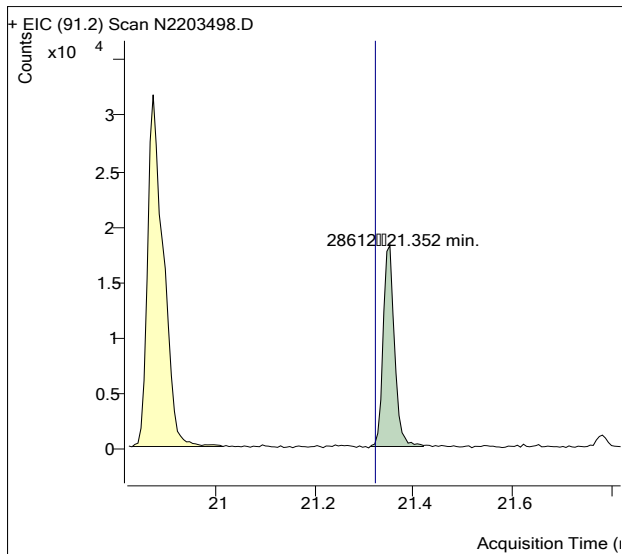


Sample Name : USSCL-PT06-S-20221011  
Sample Info : B48097  
Data File : N2203498.D  
Acquisition Date : 2022-10-31 11:46:49  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

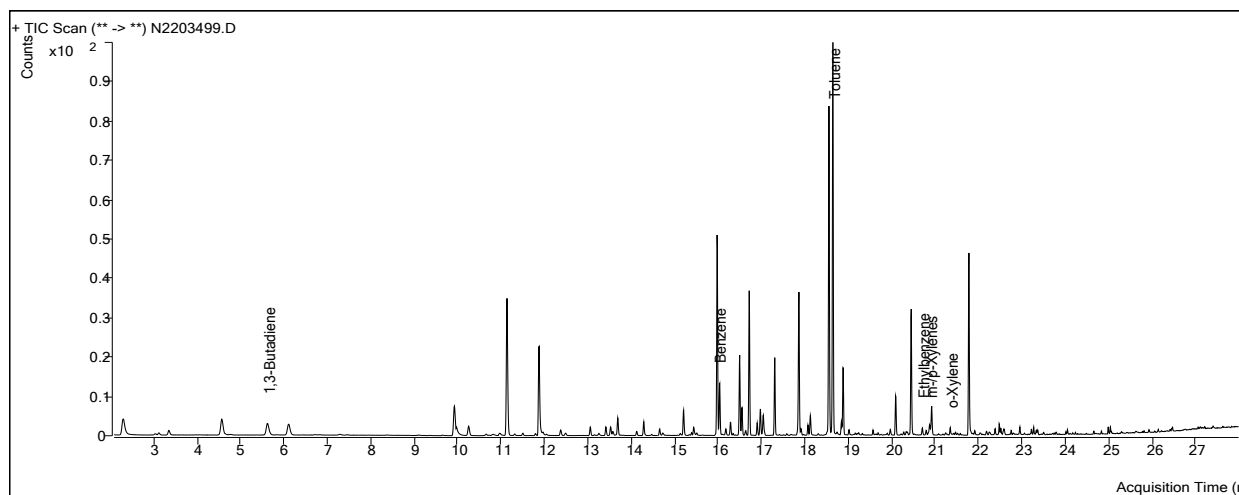
## m-/p-Xylenes



## o-Xylene



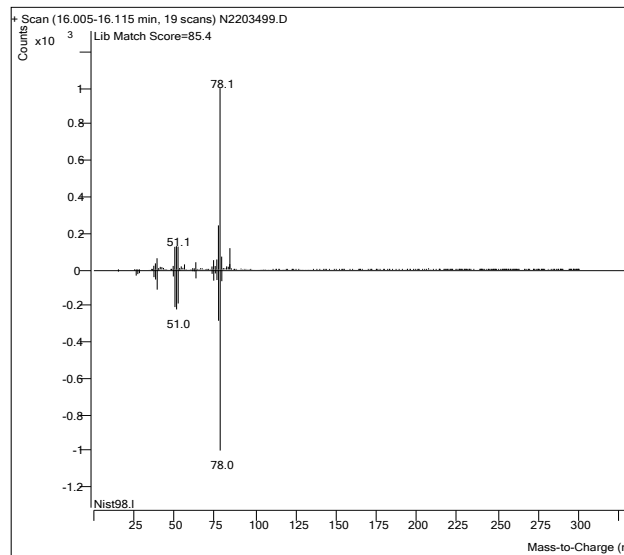
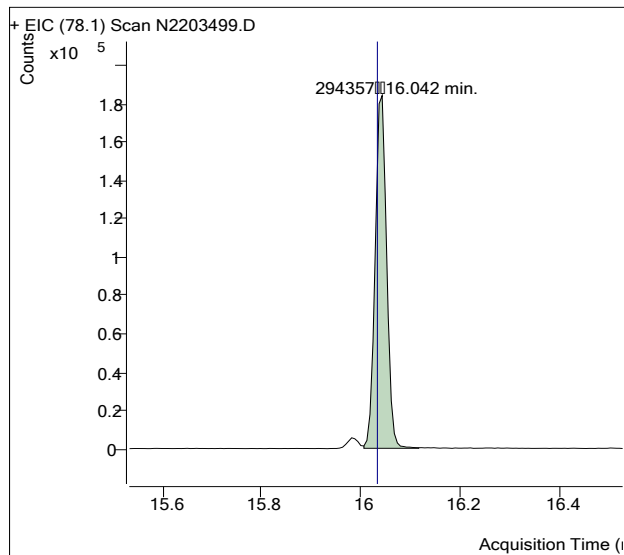
Sample Name : USSCL-PT07-S-20221011  
Sample Info : B12168  
Data File : N2203499.D  
Acquisition Date : 2022-10-31 12:26:37  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 1,167,502 |       |
| Benzene         | 16.03          | 294,357   |       |
| Toluene-d8 (IS) | 18.55          | 1,376,069 |       |
| Toluene         | 18.64          | 1,780,568 |       |
| Ethylbenzene    | 20.70          | 35,180    |       |
| m-/p-Xylenes    | 20.89          | 56,690    |       |
| o-Xylene        | 21.32          | 25,181    |       |

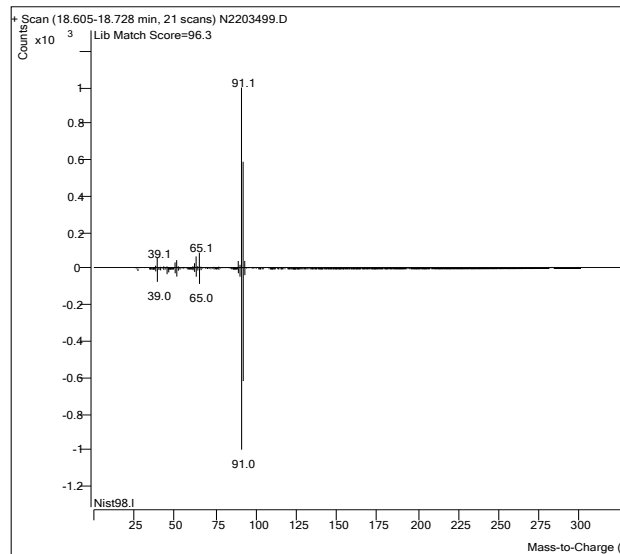
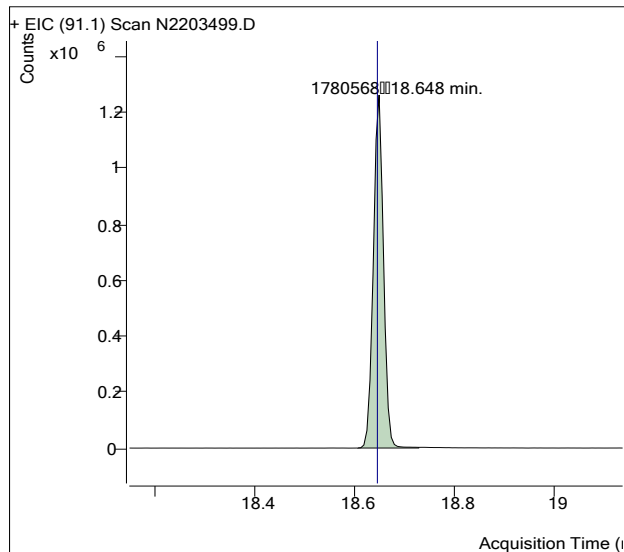
**(m)=Manual Integration**

**Benzene**

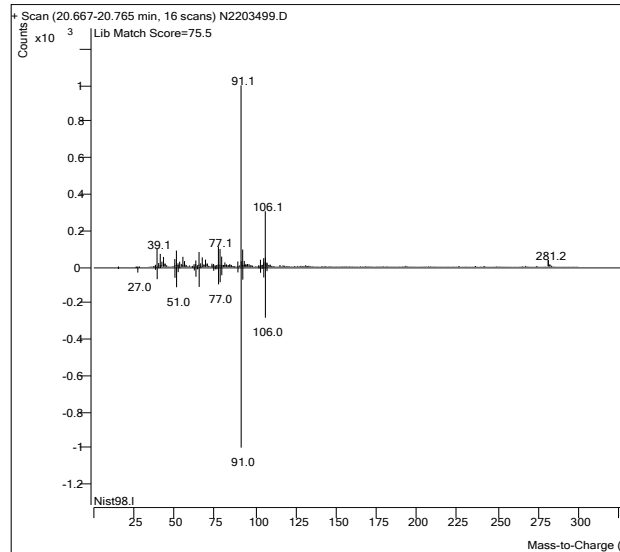
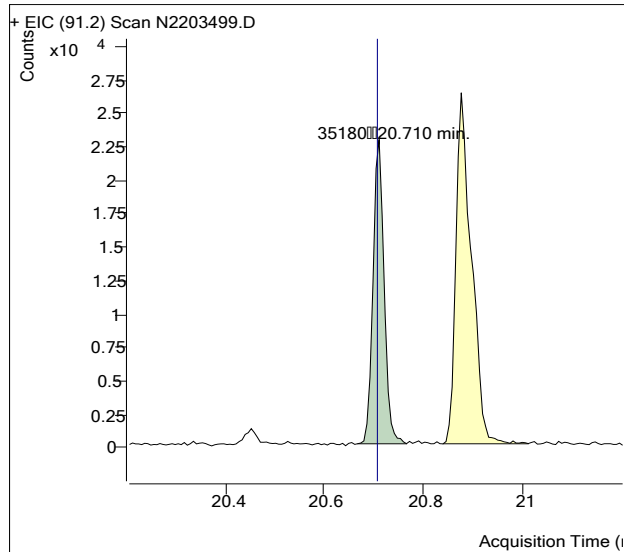


Sample Name : USSCL-PT07-S-20221011  
Sample Info : B12168  
Data File : N2203499.D  
Acquisition Date : 2022-10-31 12:26:37  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene

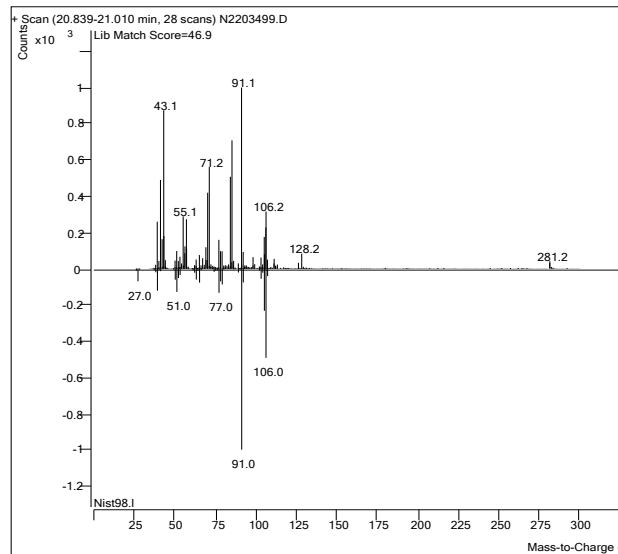
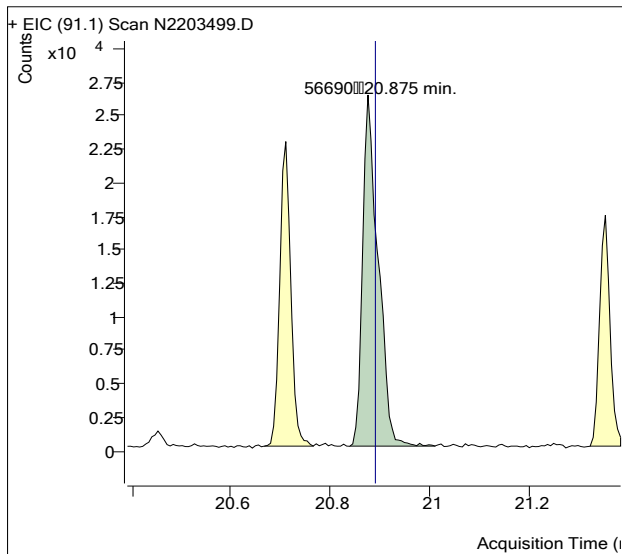


## Ethylbenzene

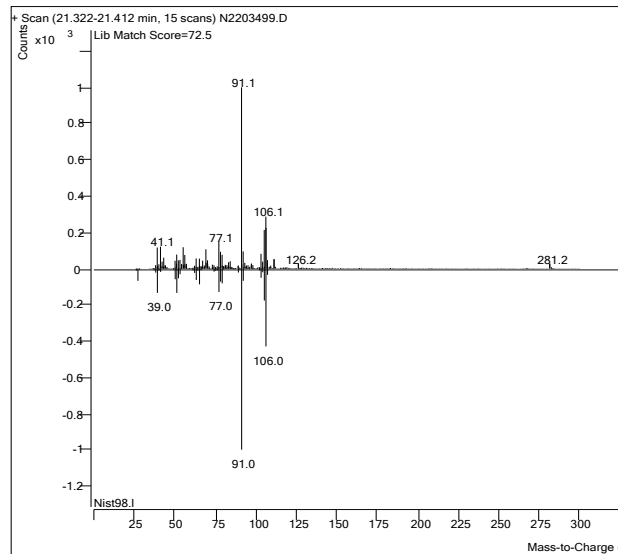
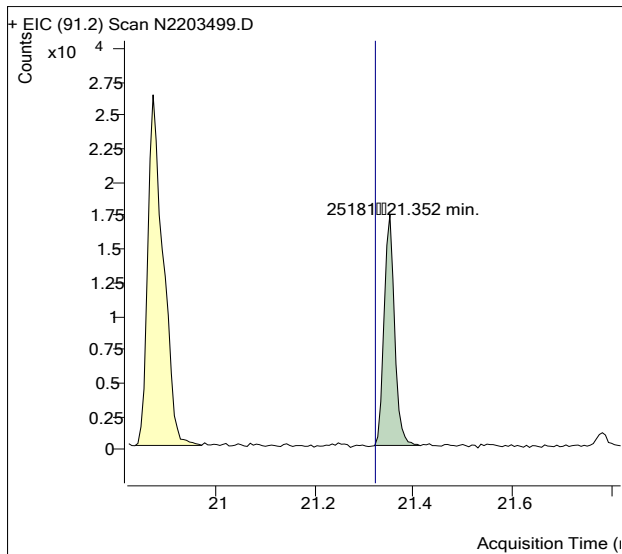


Sample Name : USSCL-PT07-S-20221011  
Sample Info : B12168  
Data File : N2203499.D  
Acquisition Date : 2022-10-31 12:26:37  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

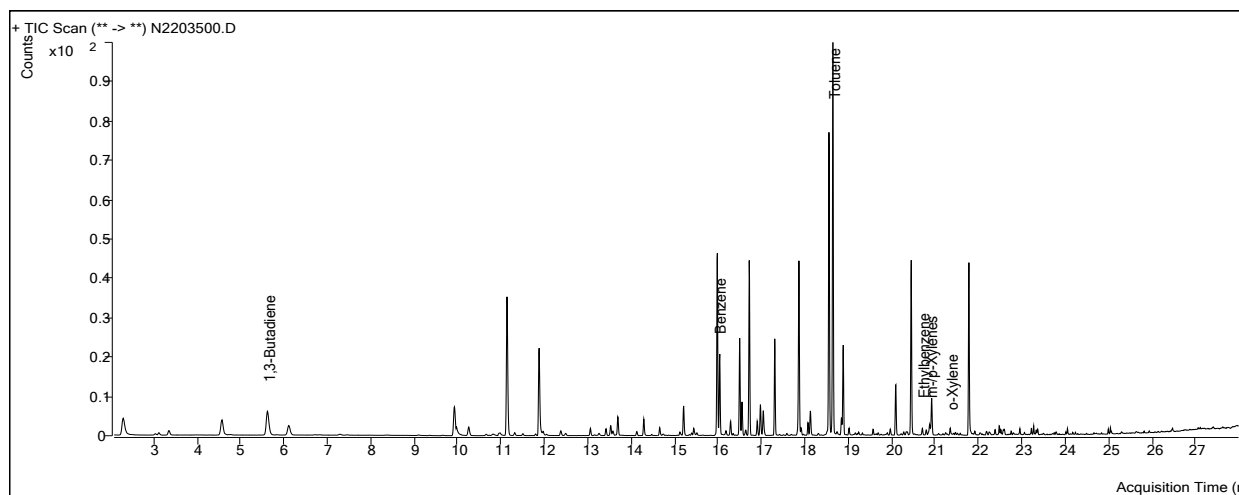
## m-/p-Xylenes



## o-Xylene



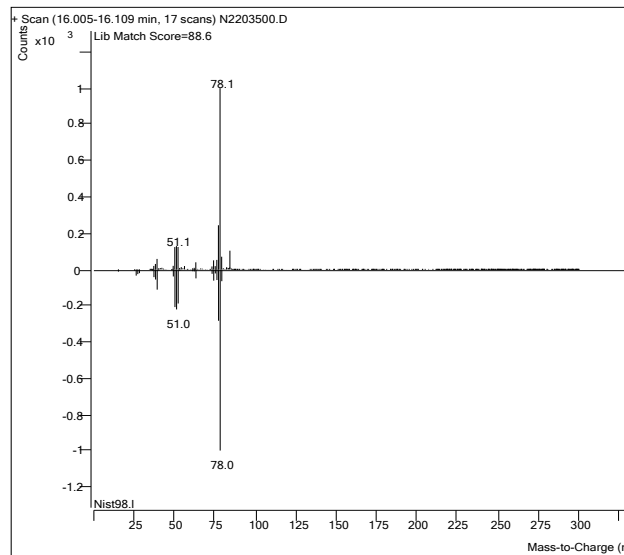
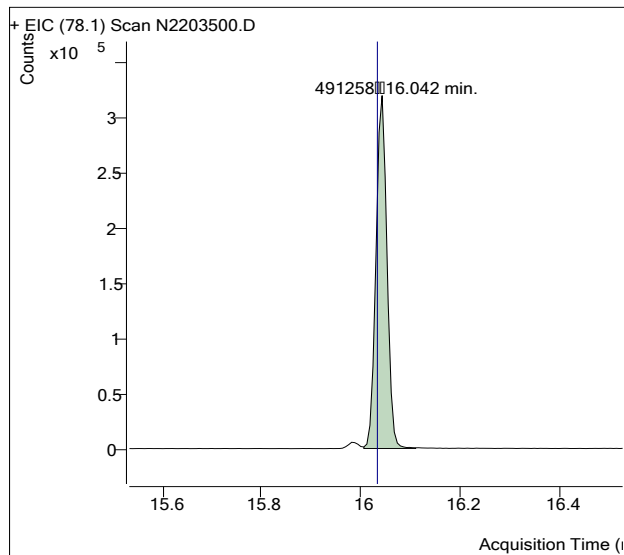
Sample Name : USSCL-PT08-S-20221011  
Sample Info : B33041  
Data File : N2203500.D  
Acquisition Date : 2022-10-31 13:06:23  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 1,179,920 |       |
| Benzene         | 16.03          | 491,258   |       |
| Toluene-d8 (IS) | 18.55          | 1,406,411 |       |
| Toluene         | 18.64          | 1,902,963 |       |
| Ethylbenzene    | 20.70          | 35,491    |       |
| m-/p-Xylenes    | 20.89          | 61,246    |       |
| o-Xylene        | 21.32          | 26,844    |       |

**(m)=Manual Integration**

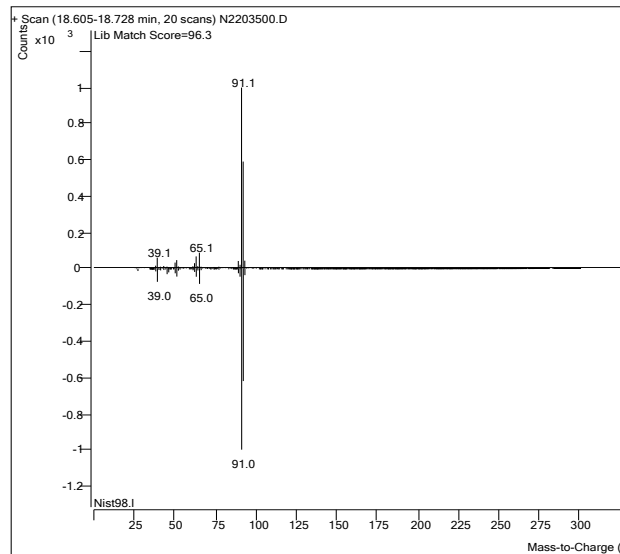
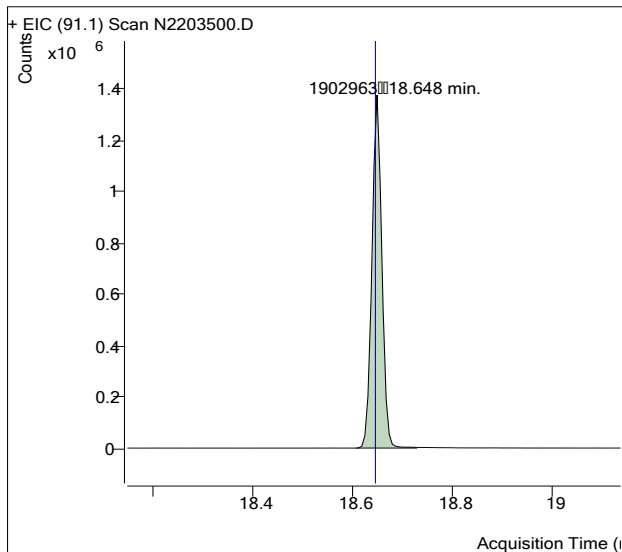
**Benzene**



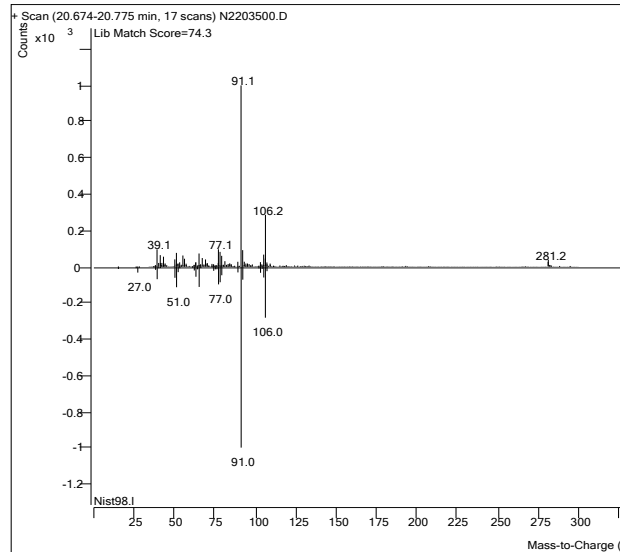
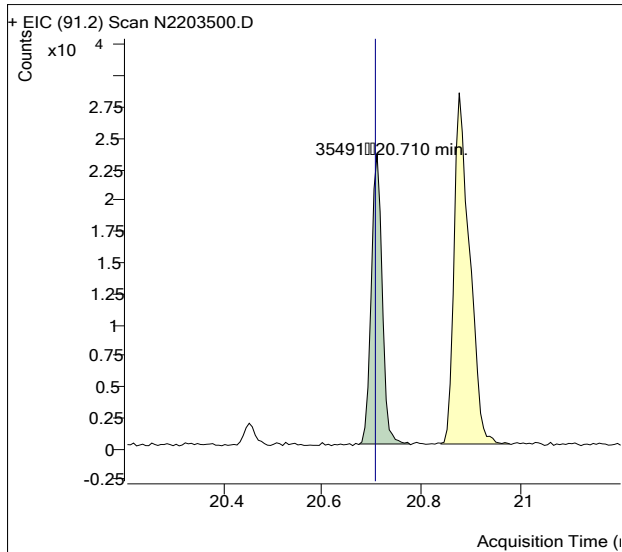


Sample Name : USSCL-PT08-S-20221011  
Sample Info : B33041  
Data File : N2203500.D  
Acquisition Date : 2022-10-31 13:06:23  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene

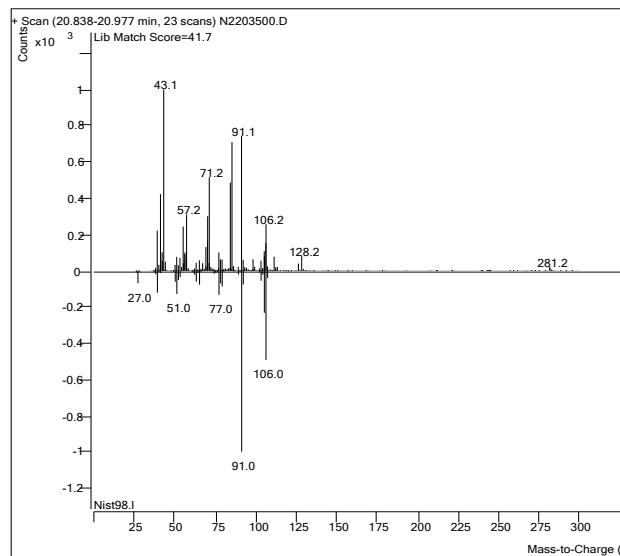
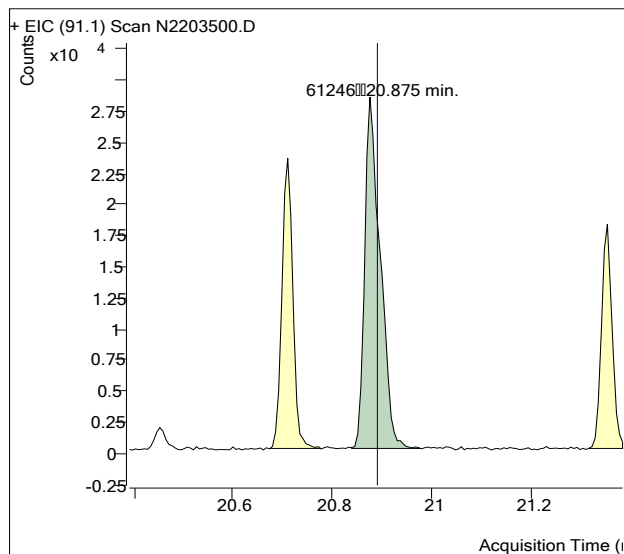


## Ethylbenzene

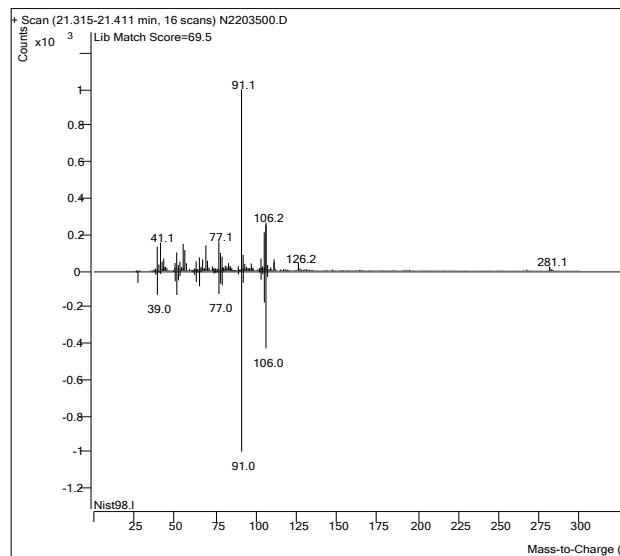
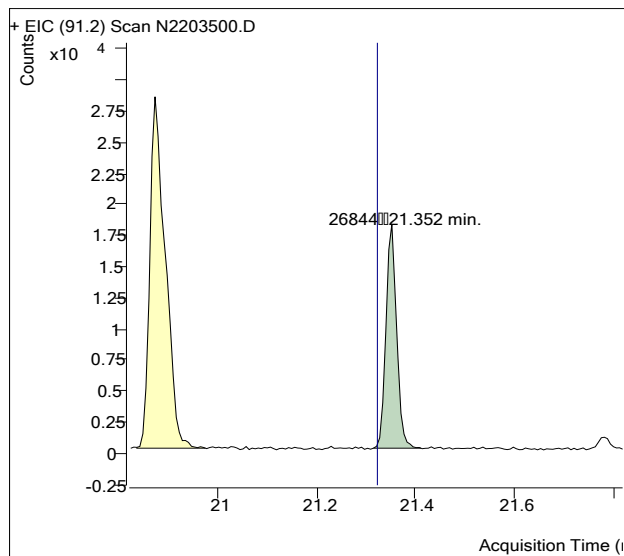


Sample Name : USSCL-PT08-S-20221011  
Sample Info : B33041  
Data File : N2203500.D  
Acquisition Date : 2022-10-31 13:06:23  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

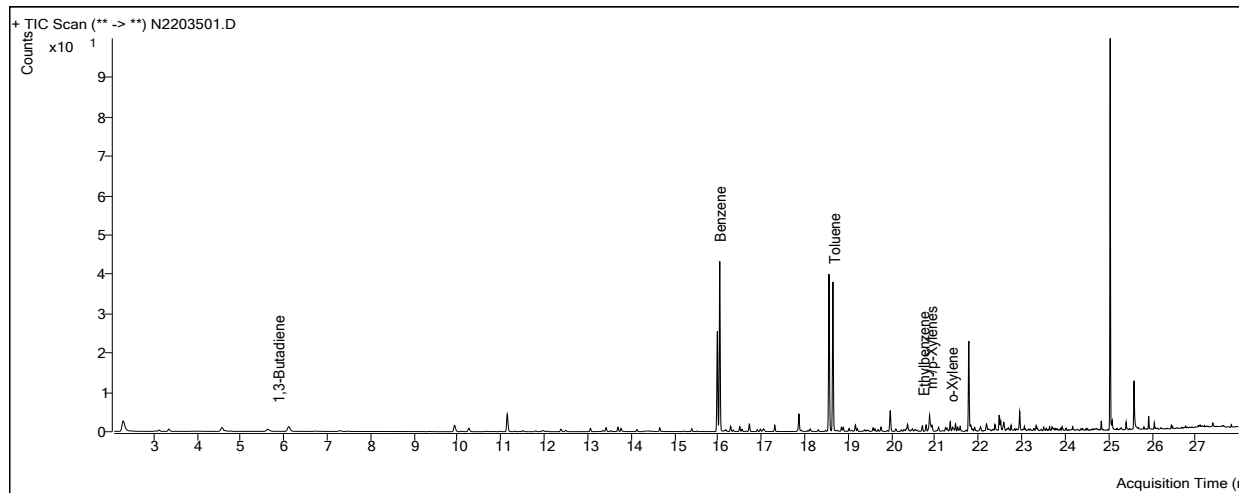
## m-/p-Xylenes



## o-Xylene



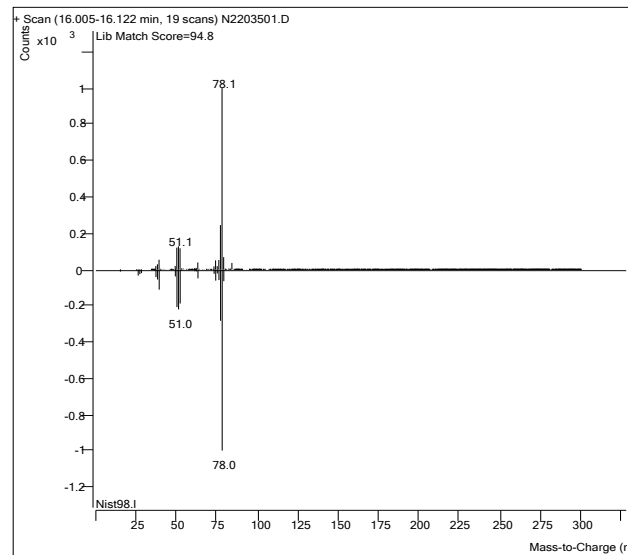
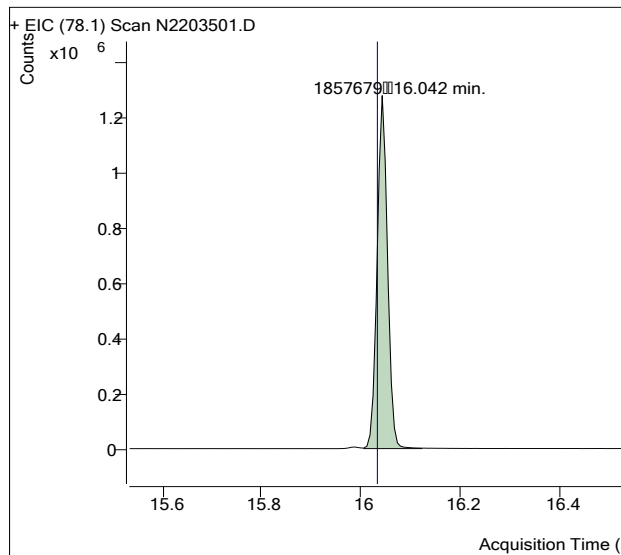
Sample Name : USSCL-PT09-S-20221011  
Sample Info : C17117  
Data File : N2203501.D  
Acquisition Date : 2022-10-31 13:46:12  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 1,188,083 |       |
| Benzene         | 16.03          | 1,857,679 |       |
| Toluene-d8 (IS) | 18.55          | 1,418,635 |       |
| Toluene         | 18.64          | 1,424,080 |       |
| Ethylbenzene    | 20.70          | 50,995    |       |
| m-/p-Xylenes    | 20.89          | 163,055   |       |
| o-Xylene        | 21.32          | 60,998    |       |

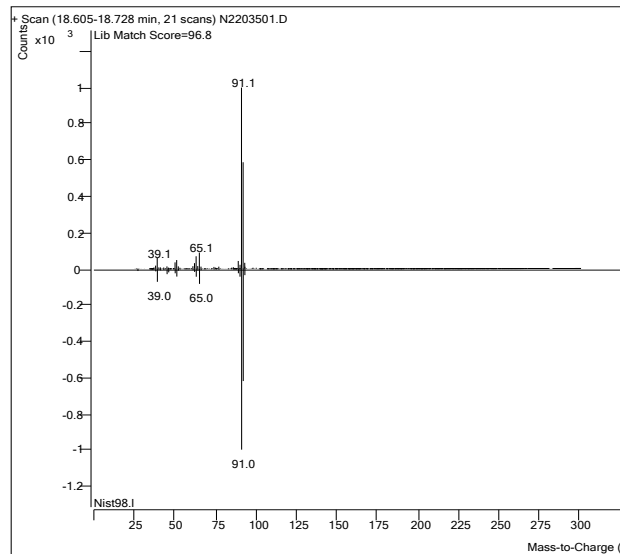
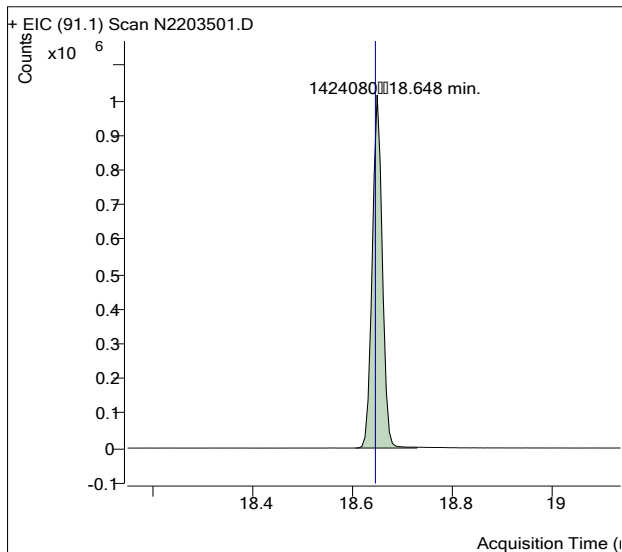
**(m)=Manual Integration**

**Benzene**

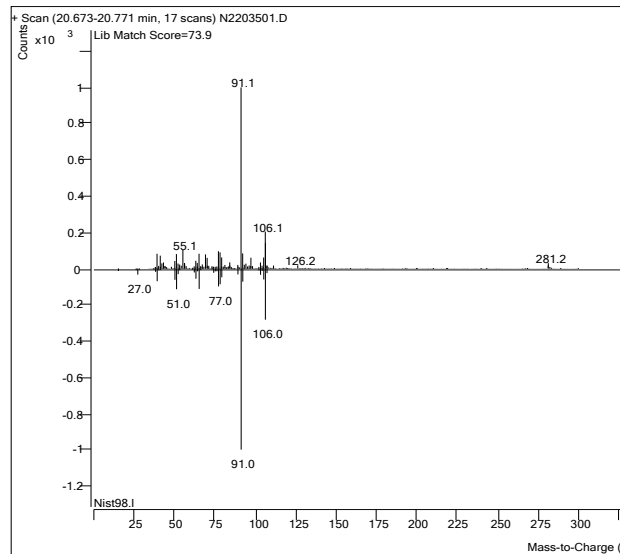
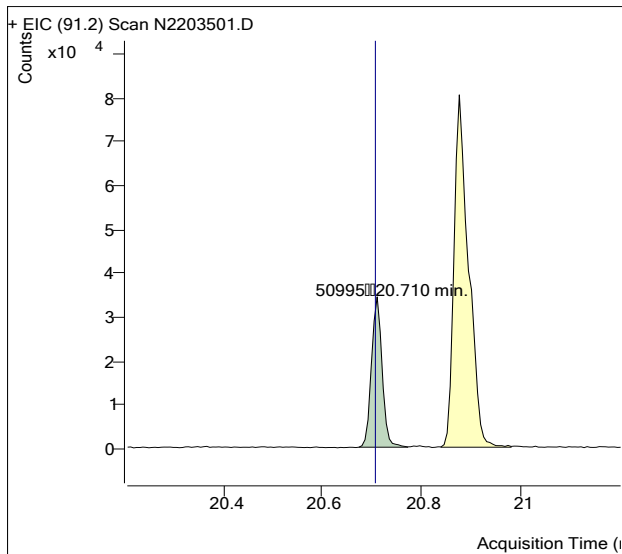


Sample Name : USSCL-PT09-S-20221011  
Sample Info : C17117  
Data File : N2203501.D  
Acquisition Date : 2022-10-31 13:46:12  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene

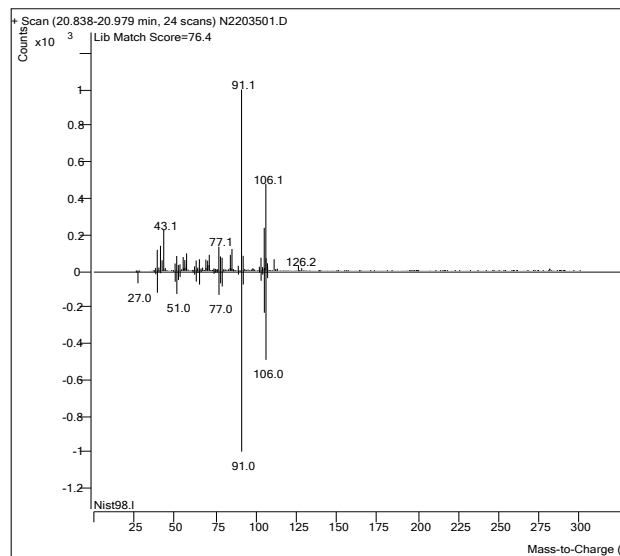
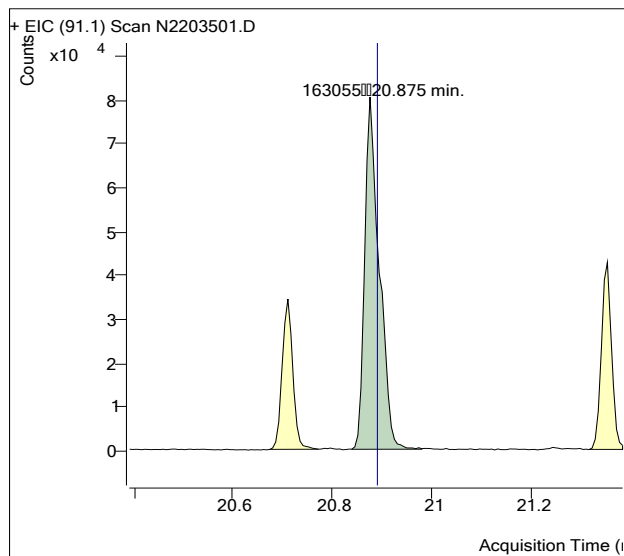


## Ethylbenzene

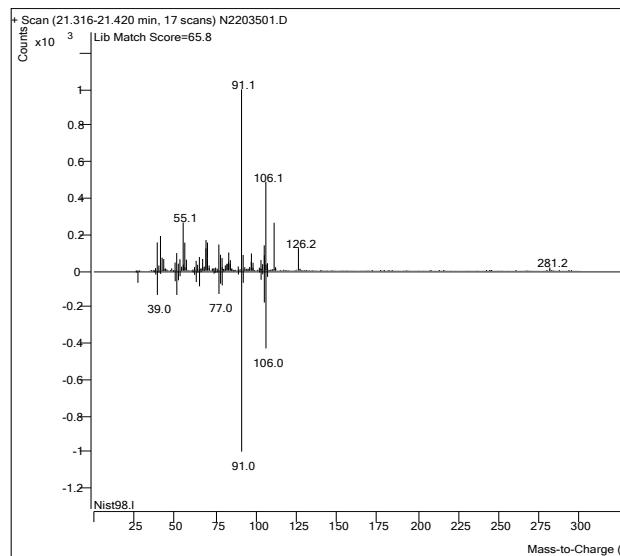
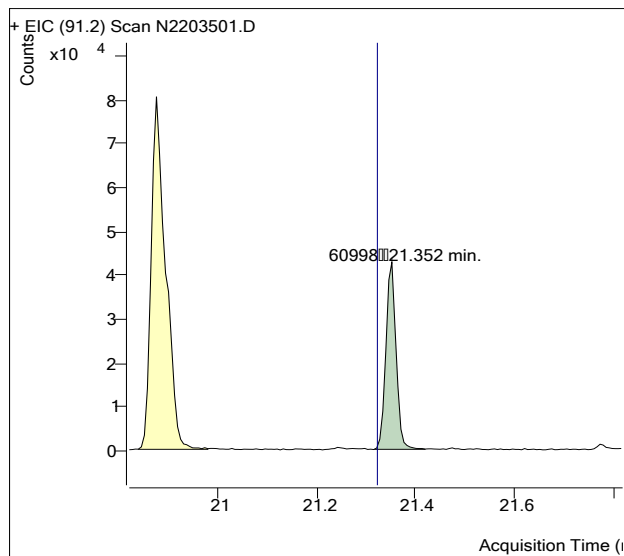


Sample Name : USSCL-PT09-S-20221011  
Sample Info : C17117  
Data File : N2203501.D  
Acquisition Date : 2022-10-31 13:46:12  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

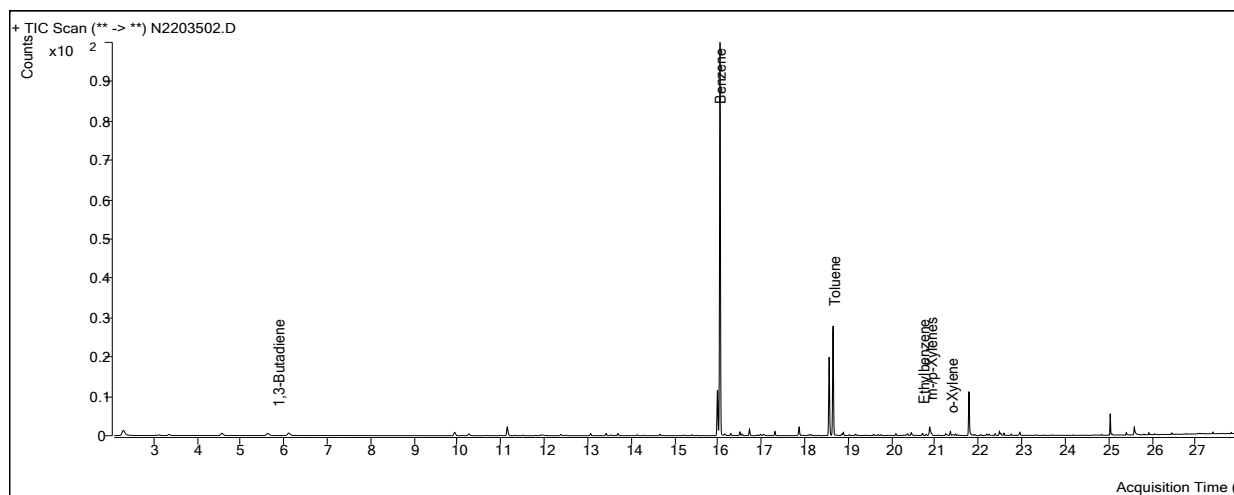
## m-/p-Xylenes



## o-Xylene



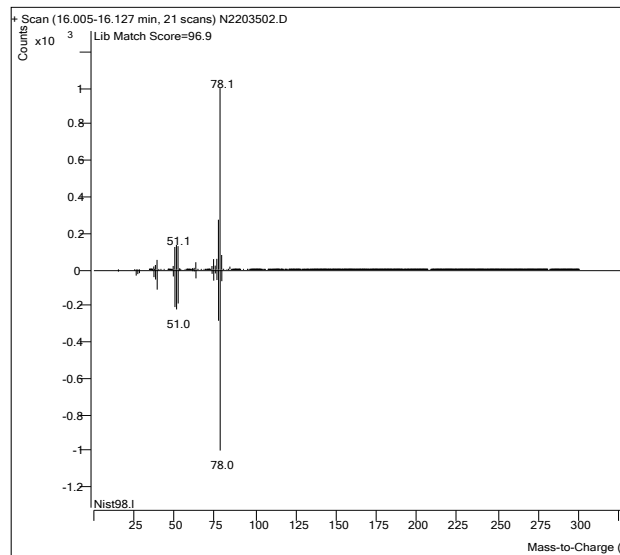
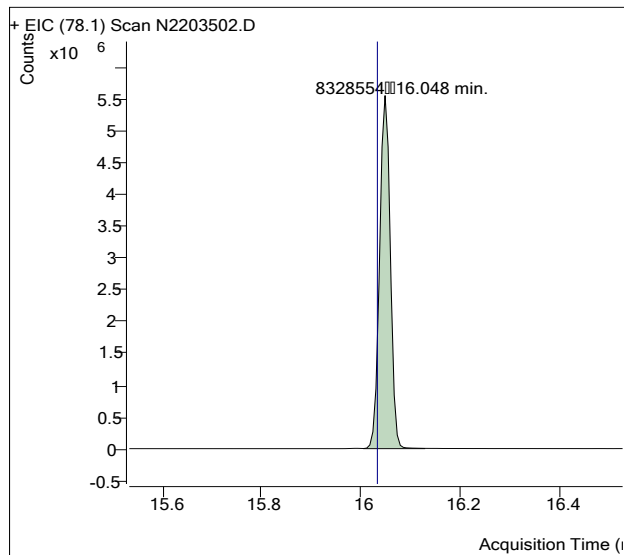
Sample Name : USSCL-PT10-S-20221011  
Sample Info : B42372  
Data File : N2203502.D  
Acquisition Date : 2022-10-31 14:25:59  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 1,179,080 |       |
| Benzene         | 16.03          | 8,328,554 |       |
| Toluene-d8 (IS) | 18.55          | 1,411,717 |       |
| Toluene         | 18.64          | 2,173,622 |       |
| Ethylbenzene    | 20.70          | 46,590    |       |
| m-/p-Xylenes    | 20.89          | 186,651   |       |
| o-Xylene        | 21.32          | 59,045    |       |

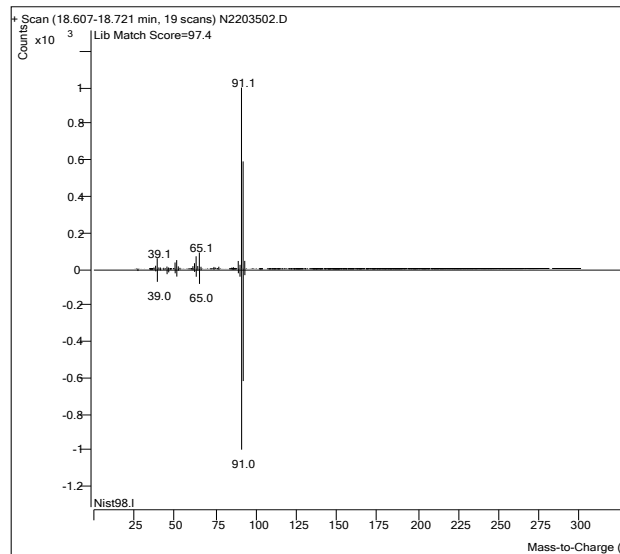
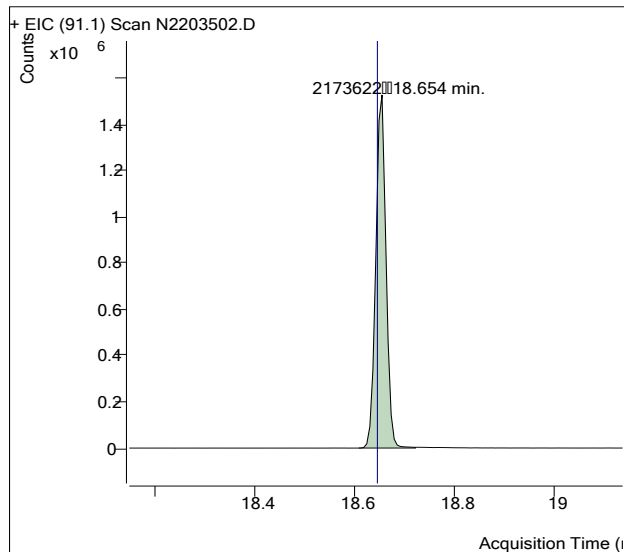
**(m)=Manual Integration**

**Benzene**

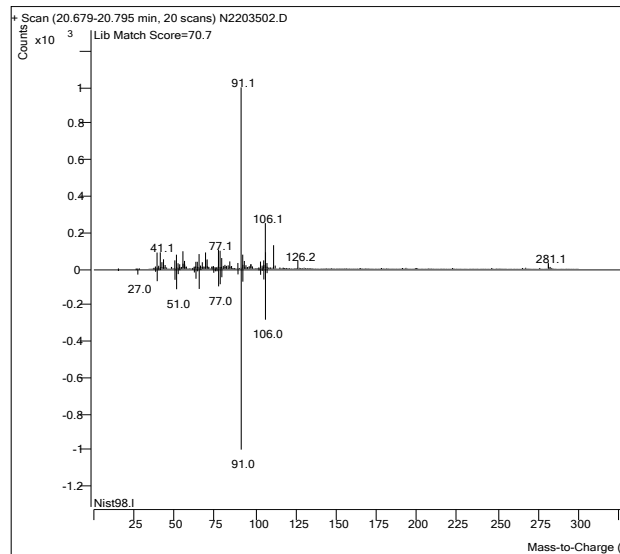
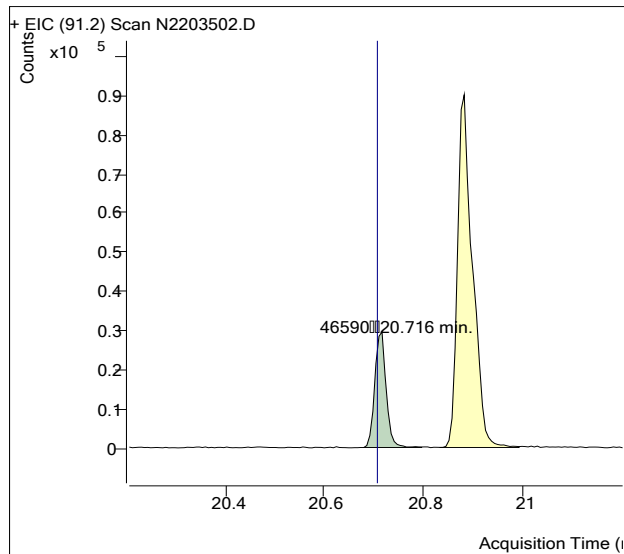


Sample Name : USSCL-PT10-S-20221011  
Sample Info : B42372  
Data File : N2203502.D  
Acquisition Date : 2022-10-31 14:25:59  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene

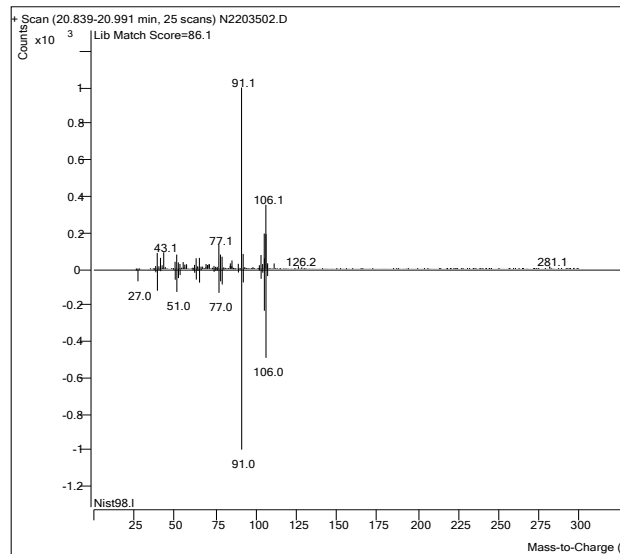
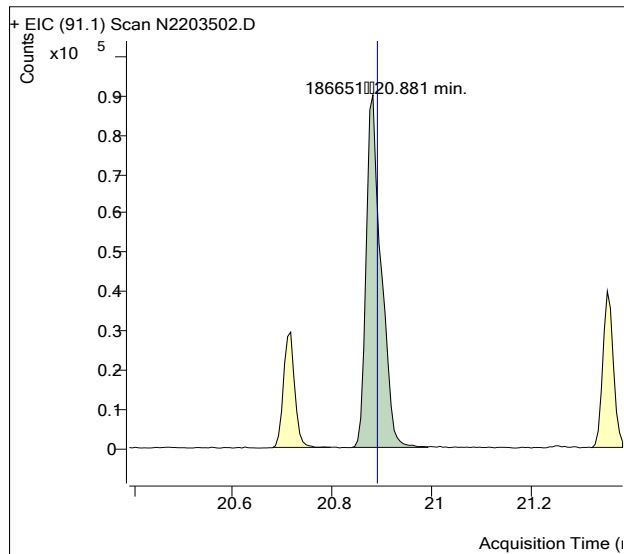


## Ethylbenzene

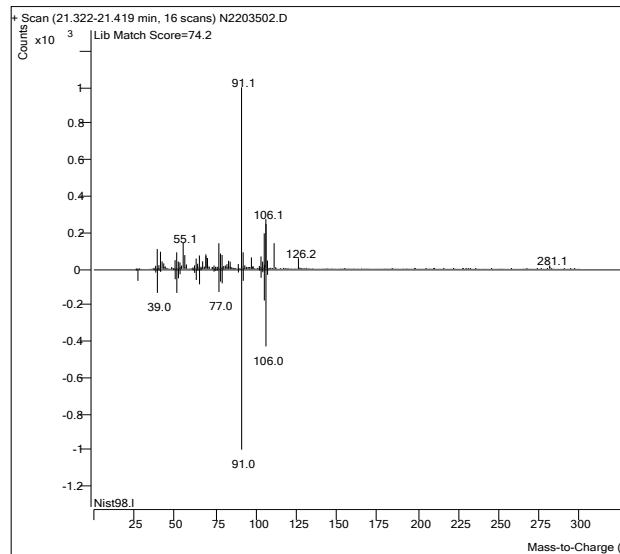
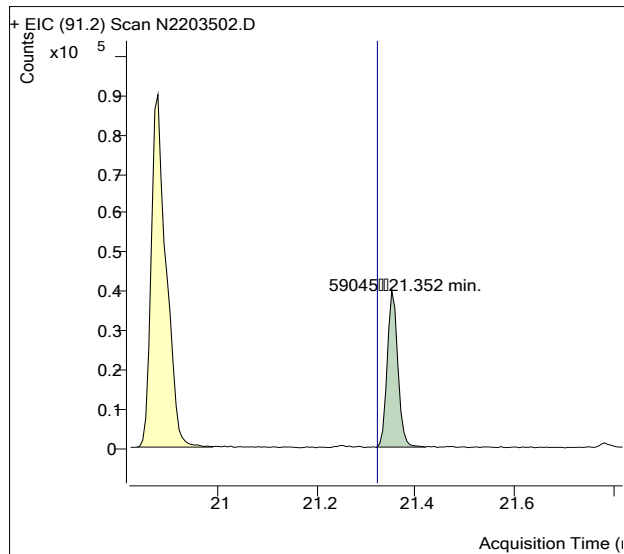


Sample Name : USSCL-PT10-S-20221011  
Sample Info : B42372  
Data File : N2203502.D  
Acquisition Date : 2022-10-31 14:25:59  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## m-/p-Xylenes

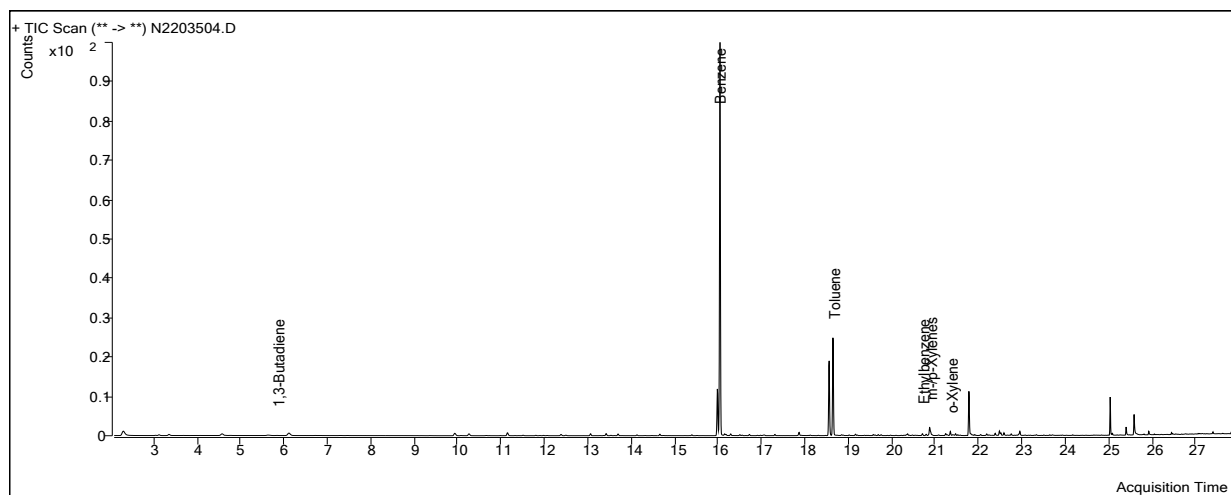


## o-Xylene





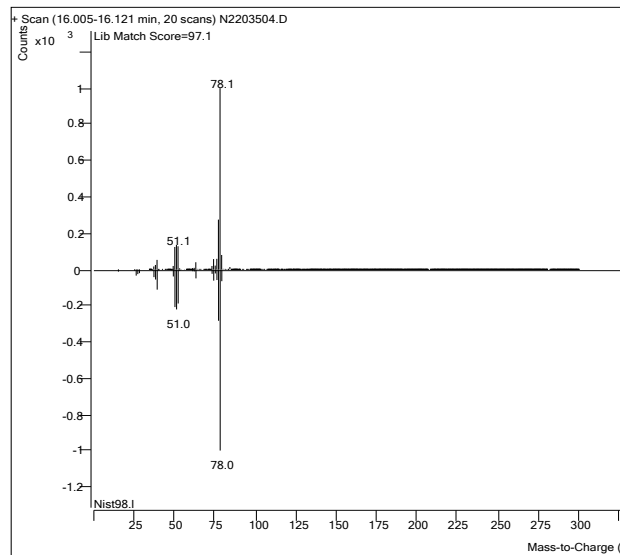
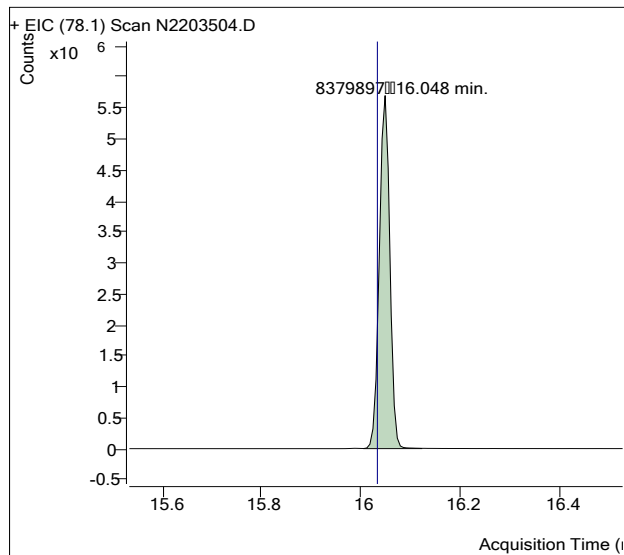
Sample Name : USSCL-PT10-D-20221011  
Sample Info : C20491  
Data File : N2203504.D  
Acquisition Date : 2022-10-31 15:45:32  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 1,176,097 |       |
| Benzene         | 16.03          | 8,379,897 |       |
| Toluene-d8 (IS) | 18.55          | 1,406,054 |       |
| Toluene         | 18.64          | 2,018,920 |       |
| Ethylbenzene    | 20.70          | 38,796    |       |
| m-/p-Xylenes    | 20.89          | 187,385   |       |
| o-Xylene        | 21.32          | 60,512    |       |

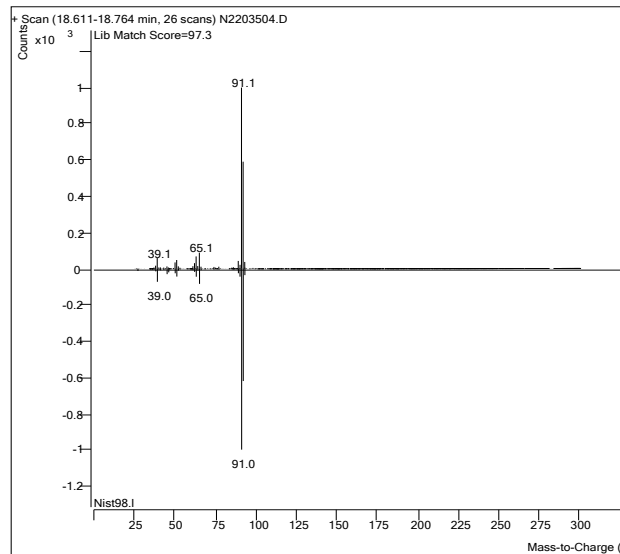
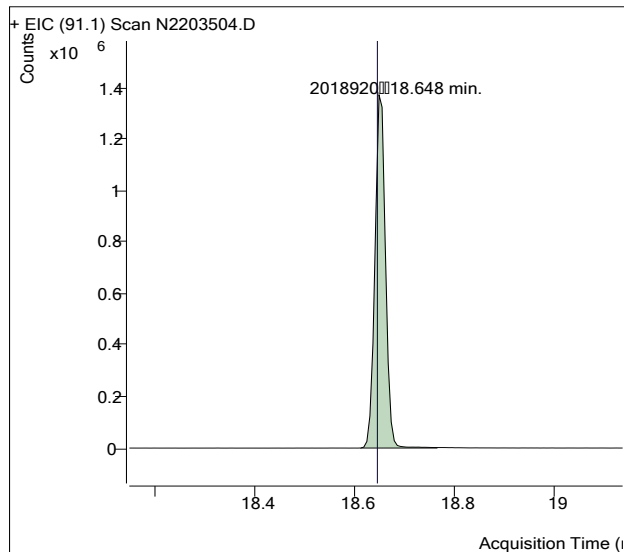
**(m)=Manual Integration**

**Benzene**

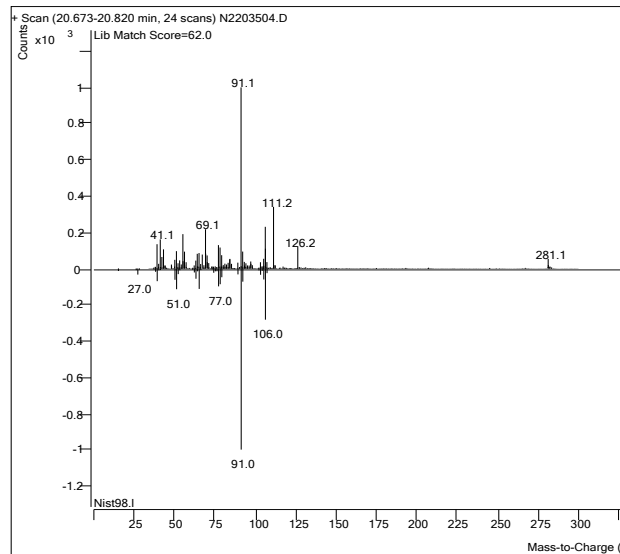
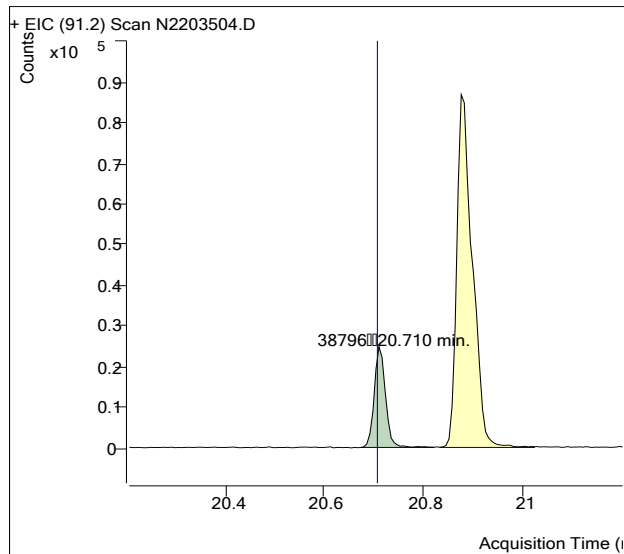


Sample Name : USSCL-PT10-D-20221011  
Sample Info : C20491  
Data File : N2203504.D  
Acquisition Date : 2022-10-31 15:45:32  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene

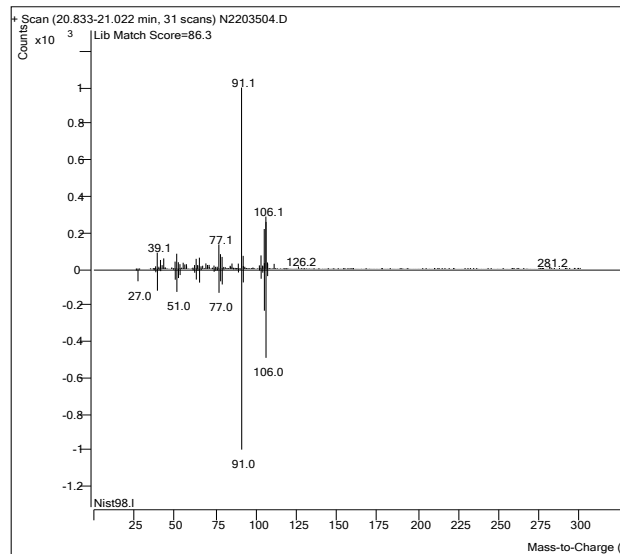
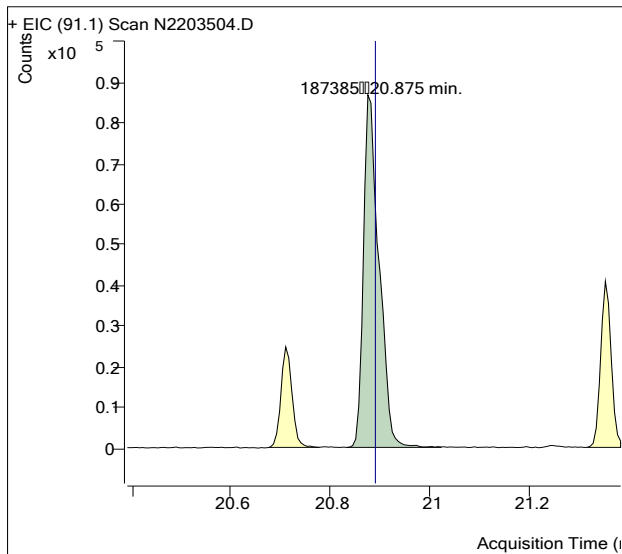


## Ethylbenzene

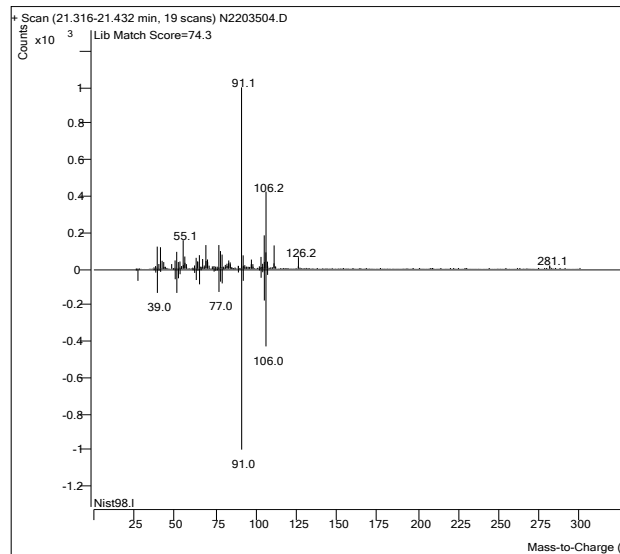
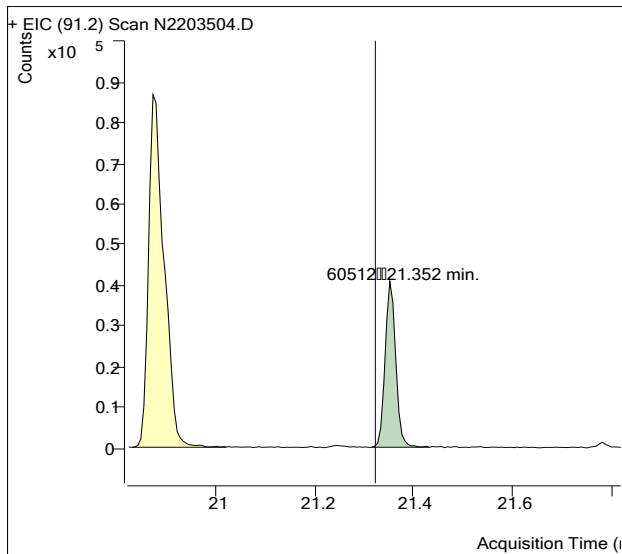


Sample Name : USSCL-PT10-D-20221011  
Sample Info : C20491  
Data File : N2203504.D  
Acquisition Date : 2022-10-31 15:45:32  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

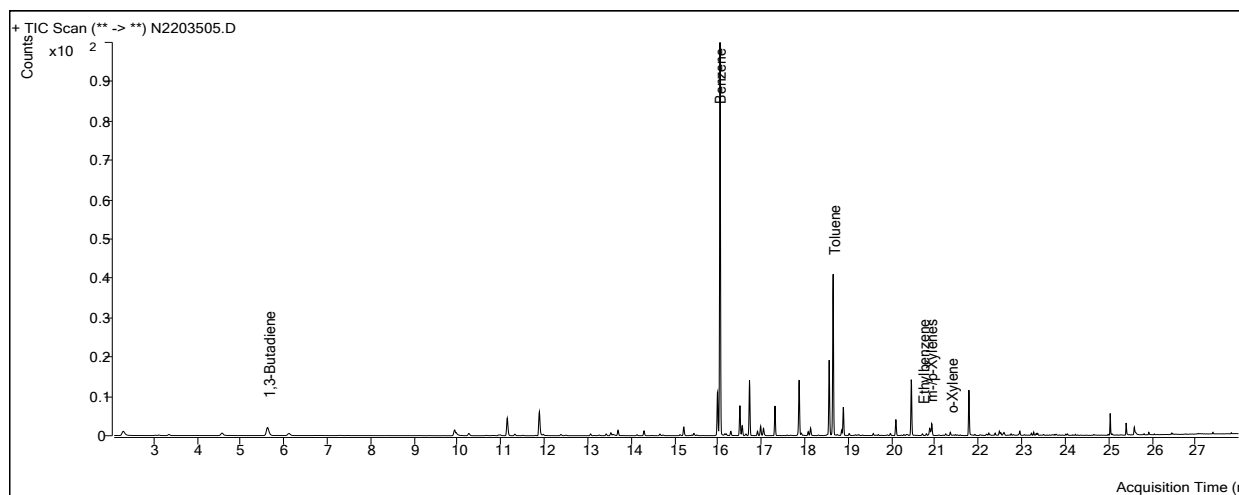
## m-/p-Xylenes



## o-Xylene



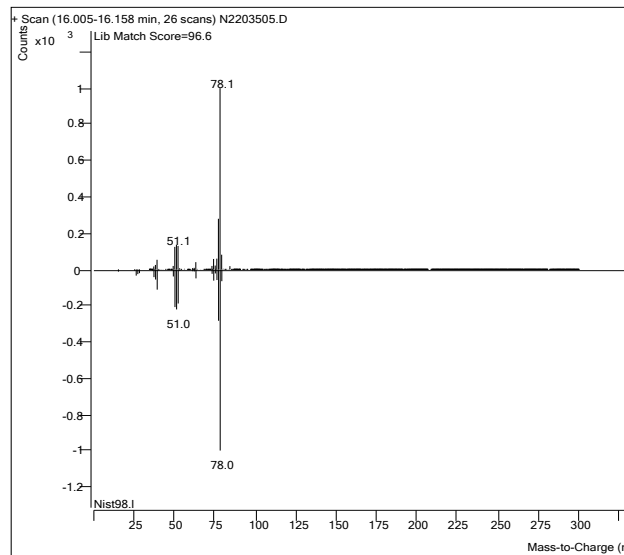
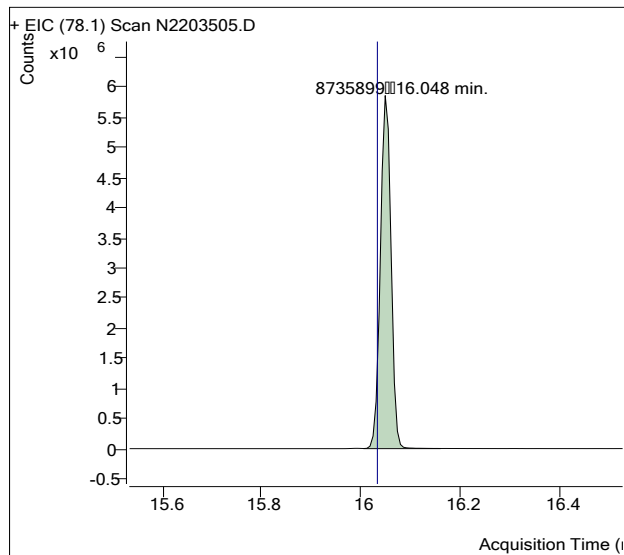
Sample Name : USSCL-PT11-S-20221011  
Sample Info : B15307  
Data File : N2203505.D  
Acquisition Date : 2022-10-31 16:25:20  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 1,197,763 |       |
| Benzene         | 16.03          | 8,735,899 |       |
| Toluene-d8 (IS) | 18.55          | 1,448,955 |       |
| Toluene         | 18.64          | 3,268,376 |       |
| Ethylbenzene    | 20.70          | 35,538    |       |
| m-/p-Xylenes    | 20.89          | 173,183   |       |
| o-Xylene        | 21.32          | 52,830    |       |

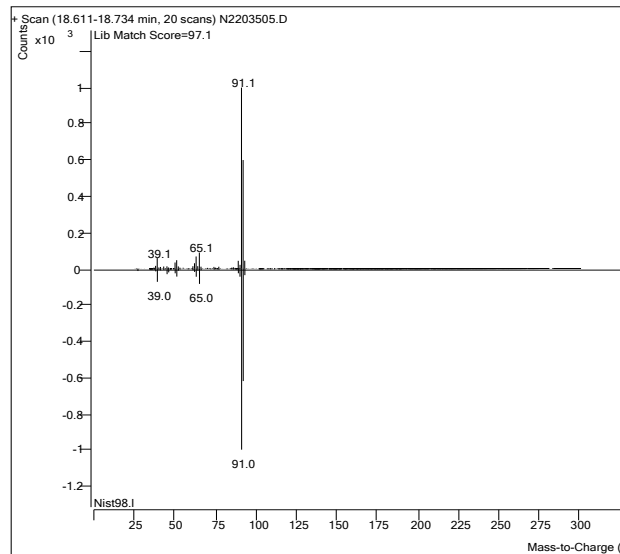
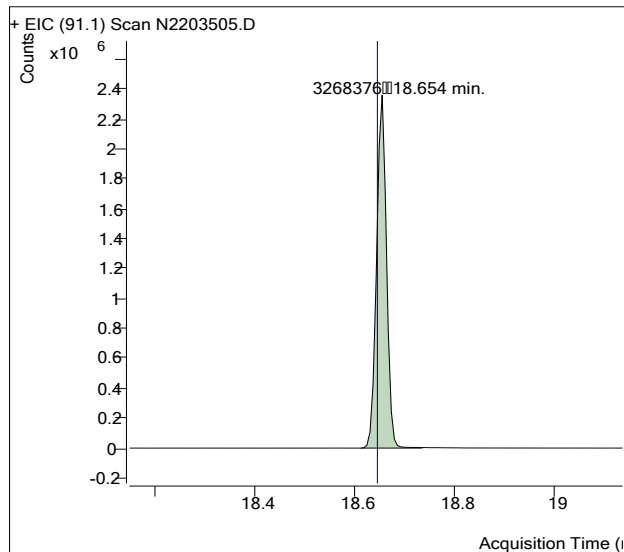
**(m)=Manual Integration**

**Benzene**

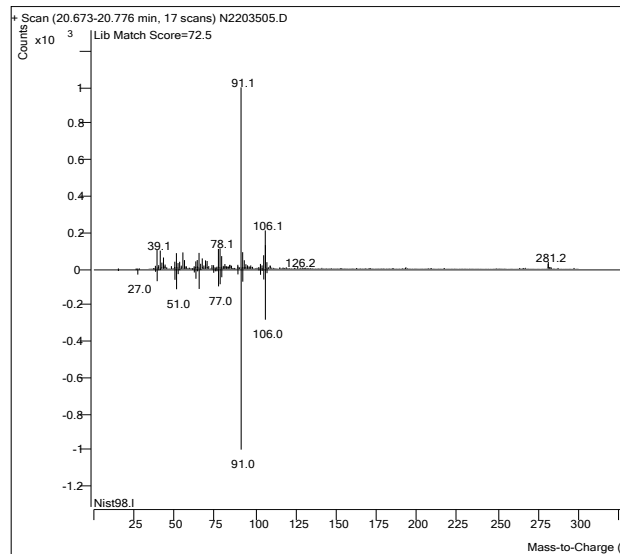
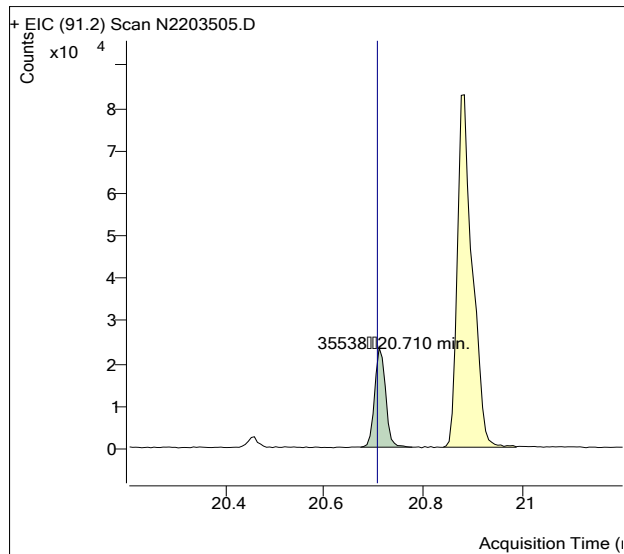


Sample Name : USSCL-PT11-S-20221011  
Sample Info : B15307  
Data File : N2203505.D  
Acquisition Date : 2022-10-31 16:25:20  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene

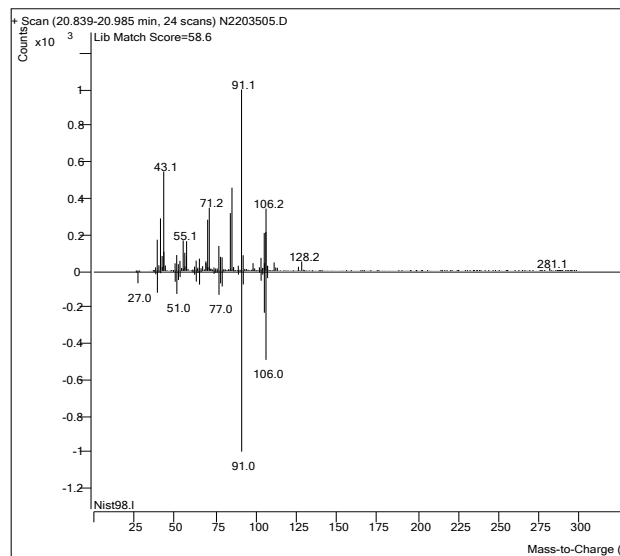
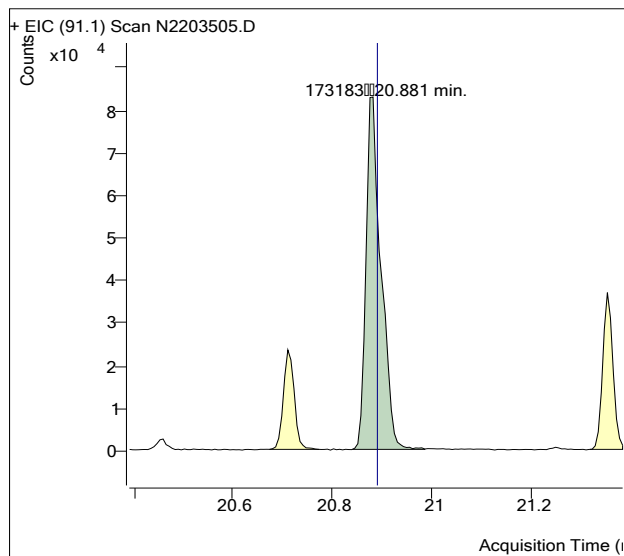


## Ethylbenzene

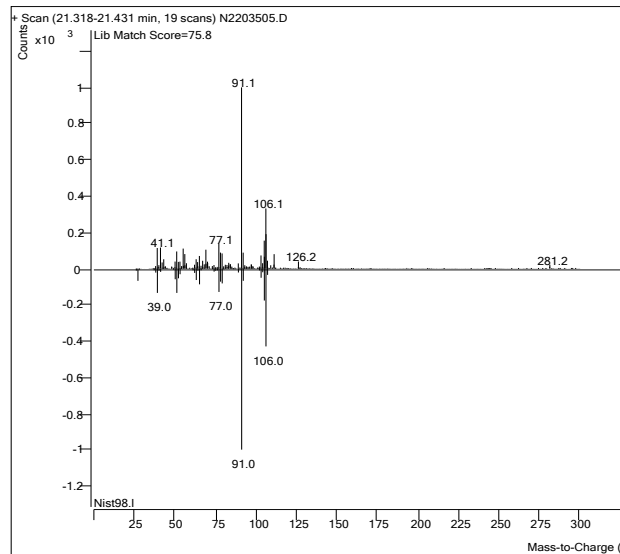
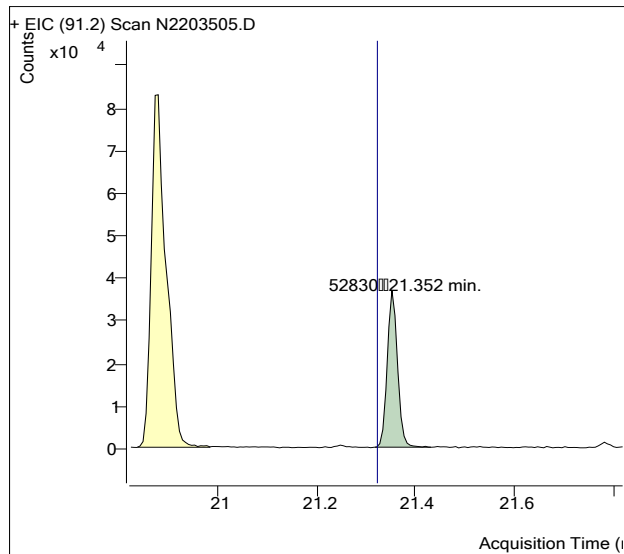


Sample Name : USSCL-PT11-S-20221011  
Sample Info : B15307  
Data File : N2203505.D  
Acquisition Date : 2022-10-31 16:25:20  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

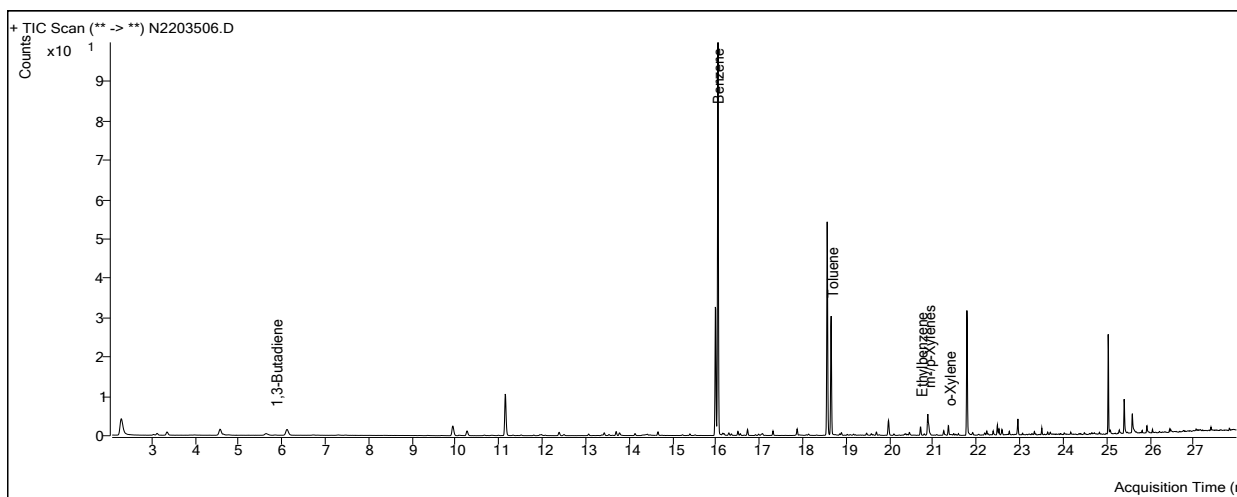
## m-/p-Xylenes



## o-Xylene



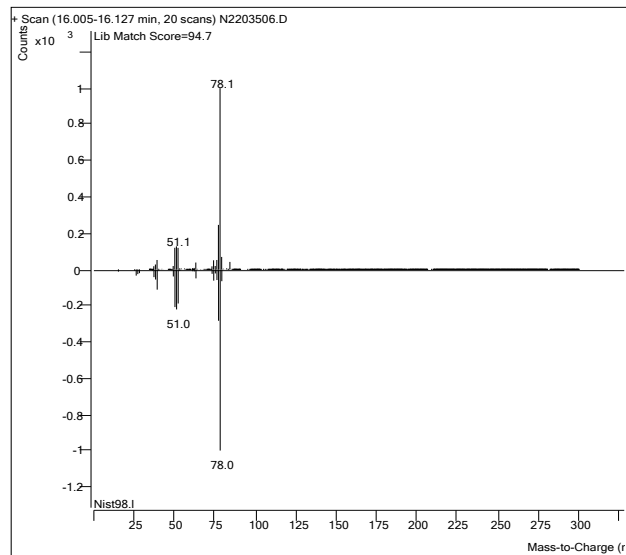
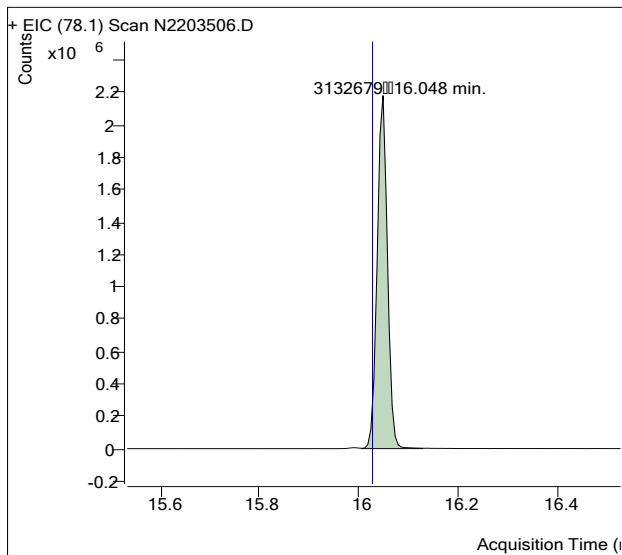
Sample Name : USSCL-PT12-S-20221011  
Sample Info : C24187  
Data File : N2203506.D  
Acquisition Date : 2022-10-31 17:05:07  
Instrument Method : m325B-td-cryo9  
Matrix : AIR



| Compound        | Retention Time | Response  | Flags |
|-----------------|----------------|-----------|-------|
| Benzene-d6 (IS) | 15.97          | 1,179,676 |       |
| Benzene         | 16.03          | 3,132,679 |       |
| Toluene-d8 (IS) | 18.55          | 1,398,437 |       |
| Toluene         | 18.64          | 866,332   |       |
| Ethylbenzene    | 20.70          | 64,651    |       |
| m-/p-Xylenes    | 20.89          | 176,054   |       |
| o-Xylene        | 21.32          | 55,645    |       |

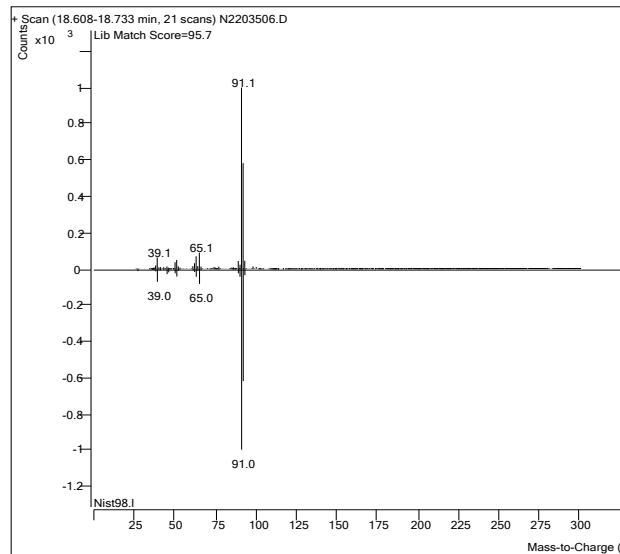
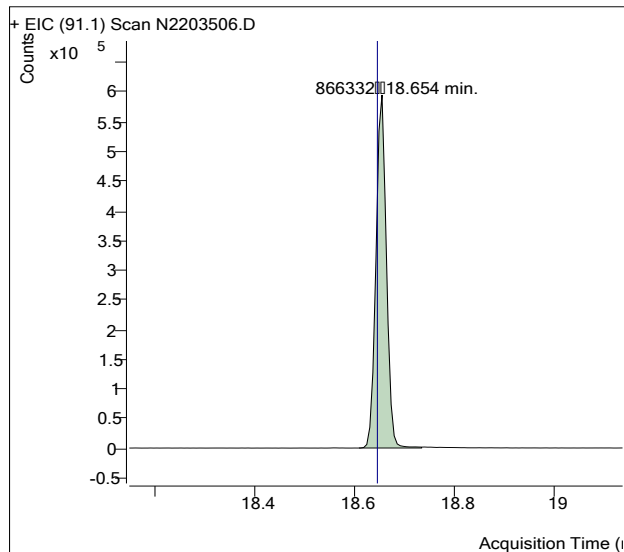
**(m)=Manual Integration**

**Benzene**

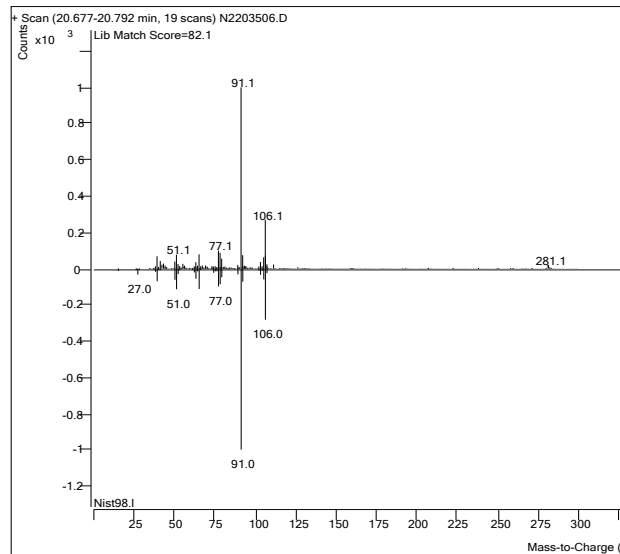
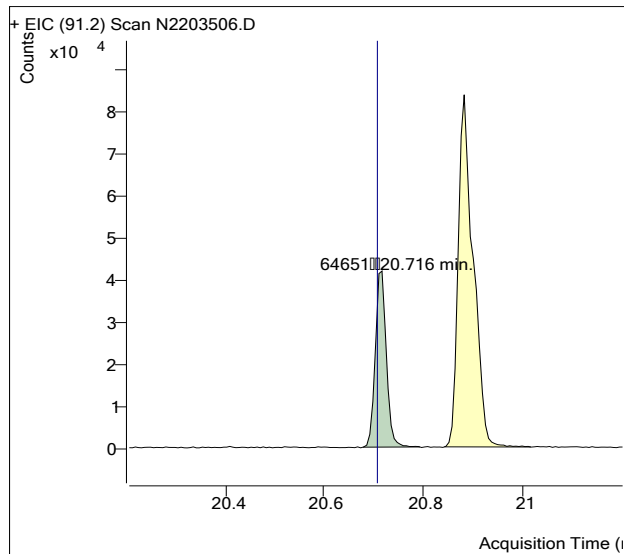


Sample Name : USSCL-PT12-S-20221011  
Sample Info : C24187  
Data File : N2203506.D  
Acquisition Date : 2022-10-31 17:05:07  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## Toluene



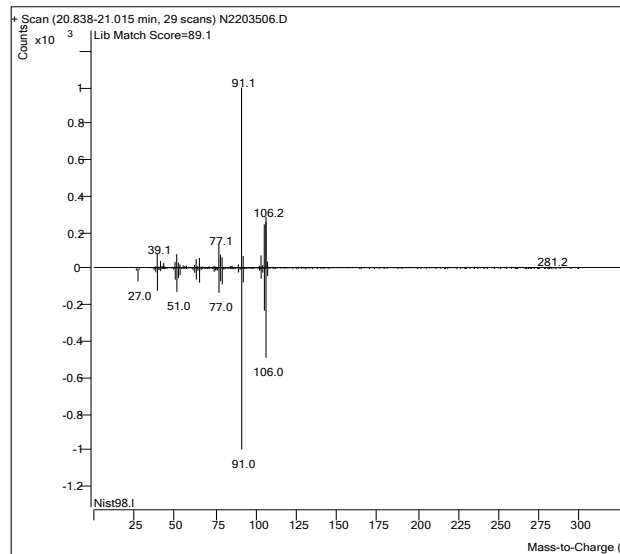
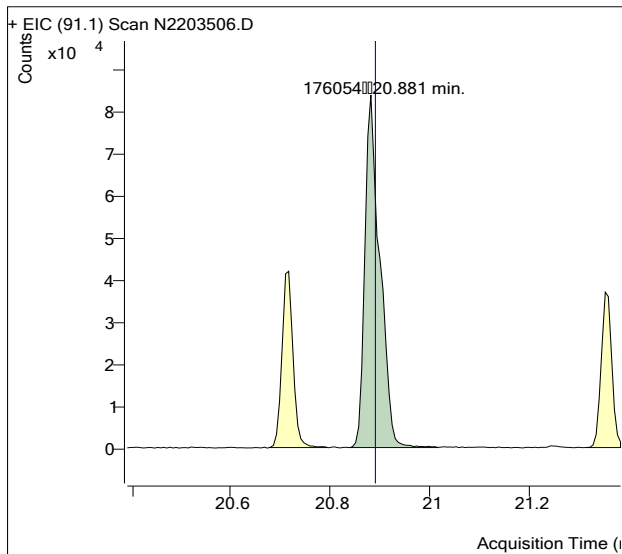
## Ethylbenzene



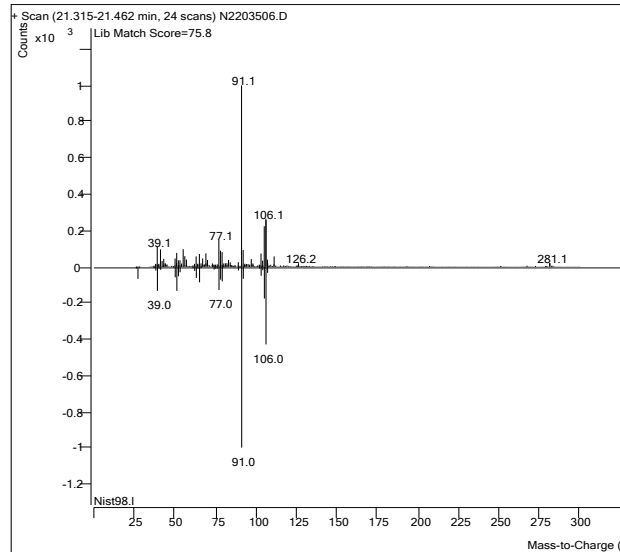
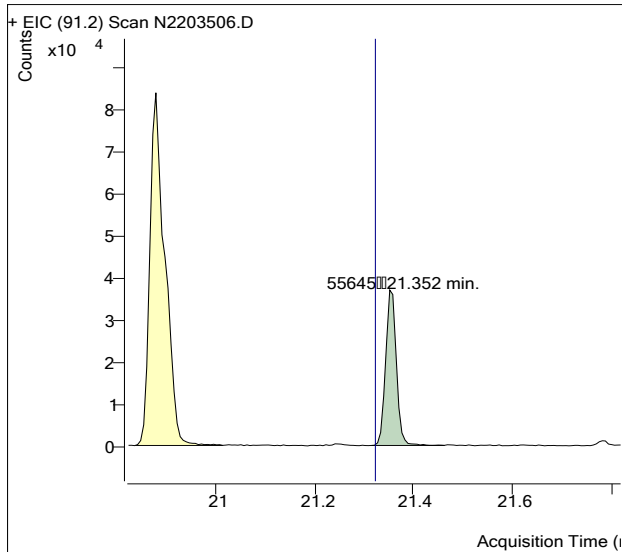


Sample Name : USSCL-PT12-S-20221011  
Sample Info : C24187  
Data File : N2203506.D  
Acquisition Date : 2022-10-31 17:05:07  
Instrument Method : m325B-td-cryo9  
Matrix : AIR

## m-/p-Xylenes



## o-Xylene



# Calibration Summary Reports



## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE101-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

### 1,3-Butadiene Calibration and Blanks

| Sample Code            | Type  | RRF   | ICAL<br>RRF | Last<br>CCV<br>RRF | RRF<br>Change | ISTD<br>Change vs<br>ICal | ISTD<br>Change vs<br>Concal | Pass/<br>Fail | Flags |
|------------------------|-------|-------|-------------|--------------------|---------------|---------------------------|-----------------------------|---------------|-------|
| M325B CCV 5 REC        | Cal   | 0.217 | 0.256       | 0.217              | -15%          | -27%                      |                             | Pass          |       |
| 2022EE101 Method Blank | Blank |       | 0.256       | 0.217              |               |                           | -8.4%                       | Pass          | ND    |
| M325B CCV 5            | Check | 0.230 | 0.256       | 0.217              | -10%          |                           | 7.3%                        | Pass          |       |
| M325B CCV 5            | Check | 0.225 | 0.256       | 0.217              | -12%          |                           | 9.3%                        | Pass          |       |

### Benzene Calibration and Blanks

| Sample Code            | Type  | RRF   | ICAL<br>RRF | Last<br>CCV<br>RRF | RRF<br>Change | ISTD<br>Change vs<br>ICal | ISTD<br>Change vs<br>Concal | Pass/<br>Fail | Flags |
|------------------------|-------|-------|-------------|--------------------|---------------|---------------------------|-----------------------------|---------------|-------|
| M325B CCV 5 REC        | Cal   | 1.037 | 1.088       | 1.037              | -4.7%         | -27%                      |                             | Pass          |       |
| 2022EE101 Method Blank | Blank |       | 1.088       | 1.037              |               |                           | -8.4%                       | Pass          | ND    |
| M325B CCV 5            | Check | 1.049 | 1.088       | 1.037              | -3.6%         |                           | 7.3%                        | Pass          |       |
| M325B CCV 5            | Check | 1.039 | 1.088       | 1.037              | -4.5%         |                           | 9.3%                        | Pass          |       |

### Ethylbenzene Calibration and Blanks

| Sample Code            | Type  | RRF   | ICAL<br>RRF | Last<br>CCV<br>RRF | RRF<br>Change | ISTD<br>Change vs<br>ICal | ISTD<br>Change vs<br>Concal | Pass/<br>Fail | Flags |
|------------------------|-------|-------|-------------|--------------------|---------------|---------------------------|-----------------------------|---------------|-------|
| M325B CCV 5 REC        | Cal   | 1.434 | 1.679       | 1.434              | -15%          | -25%                      |                             | Pass          |       |
| 2022EE101 Method Blank | Blank |       | 1.679       | 1.434              |               |                           | -13%                        | Pass          | ND    |
| M325B CCV 5            | Check | 1.490 | 1.679       | 1.434              | -11%          |                           | 3.1%                        | Pass          |       |
| M325B CCV 5            | Check | 1.428 | 1.679       | 1.434              | -15%          |                           | 5.3%                        | Pass          |       |

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE101-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

### m-/p-Xylenes Calibration and Blanks

| Sample Code            | Type  | RRF   | ICAL<br>RRF | Last<br>CCV<br>RRF | RRF<br>Change | ISTD<br>Change vs<br>ICal | ISTD<br>Change vs<br>Concal | Pass/<br>Fail | Flags |
|------------------------|-------|-------|-------------|--------------------|---------------|---------------------------|-----------------------------|---------------|-------|
| M325B CCV 5 REC        | Cal   | 1.012 | 1.316       | 1.012              | -23%          | -25%                      |                             | Pass          |       |
| 2022EE101 Method Blank | Blank |       | 1.316       | 1.012              |               |                           | -13%                        | Pass          | ND    |
| M325B CCV 5            | Check | 1.056 | 1.316       | 1.012              | -20%          |                           | 3.1%                        | Pass          |       |
| M325B CCV 5            | Check | 1.034 | 1.316       | 1.012              | -21%          |                           | 5.3%                        | Pass          |       |

### o-Xylene Calibration and Blanks

| Sample Code            | Type  | RRF   | ICAL<br>RRF | Last<br>CCV<br>RRF | RRF<br>Change | ISTD<br>Change vs<br>ICal | ISTD<br>Change vs<br>Concal | Pass/<br>Fail | Flags |
|------------------------|-------|-------|-------------|--------------------|---------------|---------------------------|-----------------------------|---------------|-------|
| M325B CCV 5 REC        | Cal   | 1.108 | 1.457       | 1.108              | -24%          | -25%                      |                             | Pass          |       |
| 2022EE101 Method Blank | Blank |       | 1.457       | 1.108              |               |                           | -13%                        | Pass          | ND    |
| M325B CCV 5            | Check | 1.174 | 1.457       | 1.108              | -19%          |                           | 3.1%                        | Pass          |       |
| M325B CCV 5            | Check | 1.151 | 1.457       | 1.108              | -21%          |                           | 5.3%                        | Pass          |       |

### Toluene Calibration and Blanks

| Sample Code            | Type  | RRF   | ICAL<br>RRF | Last<br>CCV<br>RRF | RRF<br>Change | ISTD<br>Change vs<br>ICal | ISTD<br>Change vs<br>Concal | Pass/<br>Fail | Flags |
|------------------------|-------|-------|-------------|--------------------|---------------|---------------------------|-----------------------------|---------------|-------|
| M325B CCV 5 REC        | Cal   | 1.241 | 1.383       | 1.241              | -10%          | -25%                      |                             | Pass          |       |
| 2022EE101 Method Blank | Blank |       | 1.383       | 1.241              |               |                           | -13%                        | Pass          | ND    |
| M325B CCV 5            | Check | 1.293 | 1.383       | 1.241              | -6.5%         |                           | 3.1%                        | Pass          |       |
| M325B CCV 5            | Check | 1.256 | 1.383       | 1.241              | -9.2%         |                           | 5.3%                        | Pass          |       |

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE101-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

### Calibration Curves

| Method                            | Compound      | Level | Cal File   | Amount<br>(ng) | Area     | ISTD Amt<br>(ng) | ISTD Area | RRF   | Dev    |
|-----------------------------------|---------------|-------|------------|----------------|----------|------------------|-----------|-------|--------|
| N102122A_BUT_BTEX.quantmethod.xml | 1,3-Butadiene | 1     | N2203392.D | 5.31           | 20988    | 91.9             | 1381543   | 0.263 | 2.8%   |
| N102122A_BUT_BTEX.quantmethod.xml | 1,3-Butadiene | 2     | N2203393.D | 10.62          | 41754    | 91.9             | 1426696   | 0.253 | -0.98% |
| N102122A_BUT_BTEX.quantmethod.xml | 1,3-Butadiene | 3     | N2203394.D | 21.24          | 84005    | 91.9             | 1439160   | 0.253 | -1.3%  |
| N102122A_BUT_BTEX.quantmethod.xml | 1,3-Butadiene | 4     | N2203395.D | 42.47          | 174416   | 91.9             | 1694081   | 0.223 | -13%   |
| N102122A_BUT_BTEX.quantmethod.xml | 1,3-Butadiene | 5     | N2203396.D | 106.18         | 448983   | 91.9             | 1485517   | 0.262 | 2.3%   |
| N102122A_BUT_BTEX.quantmethod.xml | 1,3-Butadiene | 6     | N2203397.D | 212.37         | 893774   | 91.9             | 1475750   | 0.262 | 2.5%   |
| N102122A_BUT_BTEX.quantmethod.xml | 1,3-Butadiene | 7     | N2203398.D | 637.10         | 2844892  | 91.9             | 1490590   | 0.275 | 7.6%   |
| Avg:                              |               |       |            |                |          |                  | 1484762   | 0.256 |        |
| %RSD:                             |               |       |            |                |          |                  | 6.7%      | 6.4%  |        |
| N102122A_BUT_BTEX.quantmethod.xml | Benzene       | 1     | N2203392.D | 5.32           | 85519    | 91.9             | 1381543   | 1.070 | -1.6%  |
| N102122A_BUT_BTEX.quantmethod.xml | Benzene       | 2     | N2203393.D | 10.64          | 170813   | 91.9             | 1426696   | 1.035 | -4.9%  |
| N102122A_BUT_BTEX.quantmethod.xml | Benzene       | 3     | N2203394.D | 21.27          | 336670   | 91.9             | 1439160   | 1.011 | -7.1%  |
| N102122A_BUT_BTEX.quantmethod.xml | Benzene       | 4     | N2203395.D | 42.54          | 810400   | 91.9             | 1694081   | 1.034 | -5.0%  |
| N102122A_BUT_BTEX.quantmethod.xml | Benzene       | 5     | N2203396.D | 106.36         | 1798118  | 91.9             | 1485517   | 1.046 | -3.8%  |
| N102122A_BUT_BTEX.quantmethod.xml | Benzene       | 6     | N2203397.D | 212.71         | 3925293  | 91.9             | 1475750   | 1.150 | 5.7%   |
| N102122A_BUT_BTEX.quantmethod.xml | Benzene       | 7     | N2203398.D | 638.13         | 13142539 | 91.9             | 1490590   | 1.270 | 17%    |
| Avg:                              |               |       |            |                |          |                  | 1484762   | 1.088 |        |
| %RSD:                             |               |       |            |                |          |                  | 6.7%      | 8.5%  |        |

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE101-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

### Calibration Curves

| Method                            | Compound     | Level | Cal File   | Amount<br>(ng) | Area     | ISTD Amt<br>(ng) | ISTD Area | RRF   | Dev    |
|-----------------------------------|--------------|-------|------------|----------------|----------|------------------|-----------|-------|--------|
| N102122A_BUT_BTEX.quantmethod.xml | Ethylbenzene | 1     | N2203392.D | 5.47           | 137256   | 106.9            | 1643571   | 1.633 | -2.7%  |
| N102122A_BUT_BTEX.quantmethod.xml | Ethylbenzene | 2     | N2203393.D | 10.93          | 309501   | 106.9            | 1702131   | 1.777 | 5.9%   |
| N102122A_BUT_BTEX.quantmethod.xml | Ethylbenzene | 3     | N2203394.D | 21.87          | 640671   | 106.9            | 1721371   | 1.819 | 8.4%   |
| N102122A_BUT_BTEX.quantmethod.xml | Ethylbenzene | 4     | N2203395.D | 43.73          | 1591379  | 106.9            | 2097737   | 1.854 | 10%    |
| N102122A_BUT_BTEX.quantmethod.xml | Ethylbenzene | 5     | N2203396.D | 109.33         | 2783786  | 106.9            | 1782933   | 1.526 | -9.1%  |
| N102122A_BUT_BTEX.quantmethod.xml | Ethylbenzene | 6     | N2203397.D | 218.65         | 6103223  | 106.9            | 1782250   | 1.674 | -0.29% |
| N102122A_BUT_BTEX.quantmethod.xml | Ethylbenzene | 7     | N2203398.D | 655.96         | 16269664 | 106.9            | 1806234   | 1.467 | -13%   |
|                                   |              |       |            |                |          | Avg:             | 1790890   | 1.679 |        |
|                                   |              |       |            |                |          | %RSD:            | 8.2%      | 8.8%  |        |
| N102122A_BUT_BTEX.quantmethod.xml | m-/p-Xylenes | 1     | N2203392.D | 5.50           | 104265   | 106.9            | 1643571   | 1.232 | -6.3%  |
| N102122A_BUT_BTEX.quantmethod.xml | m-/p-Xylenes | 2     | N2203393.D | 11.00          | 237512   | 106.9            | 1702131   | 1.355 | 3.0%   |
| N102122A_BUT_BTEX.quantmethod.xml | m-/p-Xylenes | 3     | N2203394.D | 22.00          | 499560   | 106.9            | 1721371   | 1.409 | 7.1%   |
| N102122A_BUT_BTEX.quantmethod.xml | m-/p-Xylenes | 4     | N2203395.D | 44.01          | 1180384  | 106.9            | 2097737   | 1.366 | 3.9%   |
| N102122A_BUT_BTEX.quantmethod.xml | m-/p-Xylenes | 5     | N2203396.D | 110.02         | 2071161  | 106.9            | 1782933   | 1.128 | -14%   |
| N102122A_BUT_BTEX.quantmethod.xml | m-/p-Xylenes | 6     | N2203397.D | 220.03         | 4510335  | 106.9            | 1782250   | 1.229 | -6.6%  |
| N102122A_BUT_BTEX.quantmethod.xml | m-/p-Xylenes | 7     | N2203398.D | 660.10         | 16598506 | 106.9            | 1806234   | 1.488 | 13%    |
|                                   |              |       |            |                |          | Avg:             | 1790890   | 1.316 |        |
|                                   |              |       |            |                |          | %RSD:            | 8.2%      | 9.4%  |        |

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE101-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

### Calibration Curves

| Method                            | Compound      | Level | Cal File   | Amount (ng) | Area     | ISTD Amt (ng) | ISTD Area | RRF   | Dev    |
|-----------------------------------|---------------|-------|------------|-------------|----------|---------------|-----------|-------|--------|
| N102122A_BUT_BTEX.quantmethod.xml | o-Xylene      | 1     | N2203392.D | 5.53        | 115891   | 106.9         | 1643571   | 1.362 | -6.5%  |
| N102122A_BUT_BTEX.quantmethod.xml | o-Xylene      | 2     | N2203393.D | 11.07       | 273067   | 106.9         | 1702131   | 1.549 | 6.3%   |
| N102122A_BUT_BTEX.quantmethod.xml | o-Xylene      | 3     | N2203394.D | 22.13       | 576300   | 106.9         | 1721371   | 1.617 | 11%    |
| N102122A_BUT_BTEX.quantmethod.xml | o-Xylene      | 4     | N2203395.D | 44.26       | 1404641  | 106.9         | 2097737   | 1.617 | 11%    |
| N102122A_BUT_BTEX.quantmethod.xml | o-Xylene      | 5     | N2203396.D | 110.65      | 2334527  | 106.9         | 1782933   | 1.265 | -13%   |
| N102122A_BUT_BTEX.quantmethod.xml | o-Xylene      | 6     | N2203397.D | 221.30      | 5316523  | 106.9         | 1782250   | 1.440 | -1.1%  |
| N102122A_BUT_BTEX.quantmethod.xml | o-Xylene      | 7     | N2203398.D | 663.91      | 15133544 | 106.9         | 1806234   | 1.349 | -7.4%  |
|                                   |               |       |            |             |          | Avg:          | 1790890   | 1.457 |        |
|                                   |               |       |            |             |          | %RSD:         | 8.2%      | 9.6%  |        |
| N102122A_BUT_BTEX.quantmethod.xml | Toluene       | 1     | N2203392.D | 5.52        | 124081   | 106.9         | 1643571   | 1.461 | 5.6%   |
| N102122A_BUT_BTEX.quantmethod.xml | Toluene       | 2     | N2203393.D | 11.04       | 244558   | 106.9         | 1702131   | 1.390 | 0.53%  |
| N102122A_BUT_BTEX.quantmethod.xml | Toluene       | 3     | N2203394.D | 22.09       | 484206   | 106.9         | 1721371   | 1.361 | -1.6%  |
| N102122A_BUT_BTEX.quantmethod.xml | Toluene       | 4     | N2203395.D | 44.18       | 1195886  | 106.9         | 2097737   | 1.379 | -0.28% |
| N102122A_BUT_BTEX.quantmethod.xml | Toluene       | 5     | N2203396.D | 110.45      | 2396009  | 106.9         | 1782933   | 1.300 | -6.0%  |
| N102122A_BUT_BTEX.quantmethod.xml | Toluene       | 6     | N2203397.D | 220.90      | 5257729  | 106.9         | 1782250   | 1.427 | 3.2%   |
| N102122A_BUT_BTEX.quantmethod.xml | Toluene       | 7     | N2203398.D | 662.69      | 15253920 | 106.9         | 1806234   | 1.362 | -1.5%  |
|                                   |               |       |            |             |          | Avg:          | 1790890   | 1.383 |        |
|                                   |               |       |            |             |          | %RSD:         | 8.2%      | 3.7%  |        |
| N102122A_BUT_BTEX.quantmethod.xml | 1,3-Butadiene | ICV   | N2203399.D | 106.17      | 448455   | 91.9          | 1492171   | 0.260 | 1.7%   |
| N102122A_BUT_BTEX.quantmethod.xml | Benzene       | ICV   | N2203399.D | 100.86      | 1685784  | 91.9          | 1492171   | 1.030 | -5.3%  |
| N102122A_BUT_BTEX.quantmethod.xml | Ethylbenzene  | ICV   | N2203399.D | 97.53       | 2278660  | 106.9         | 1828746   | 1.365 | -19%   |
| N102122A_BUT_BTEX.quantmethod.xml | m-/p-Xylenes  | ICV   | N2203399.D | 97.70       | 1699731  | 106.9         | 1828746   | 1.017 | -23%   |
| N102122A_BUT_BTEX.quantmethod.xml | o-Xylene      | ICV   | N2203399.D | 98.60       | 1865276  | 106.9         | 1828746   | 1.106 | -24%   |
| N102122A_BUT_BTEX.quantmethod.xml | Toluene       | ICV   | N2203399.D | 100.73      | 2108360  | 106.9         | 1828746   | 1.223 | -12%   |

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