

All4, Inc.

2393 Kimberton Road
Kimberton, PA 19442

Coke Oven ICR Sampling Event #11

US Steel Corp - Clairton Works ICR

Project: 00701-0002.00

Analytical Report (2023EE106)

EPA Method 325B

1,3-Butadiene

Benzene

Ethylbenzene

m/p-Xylene

o-Xylene

Toluene



Enthalpy Analytical, LLC

Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / www.enthalpy.com

800-1 Capitola Drive, Durham, NC 27713

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). This report shall not be reproduced except in full without approval of the laboratory. This will provide assurance that parts of a report are not taken out of context.

Nicole West

Report Issued: 04/03/2023



Summary of Results

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE106-1 EPA Method 325B Analysis

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

Summary

Sample Code	Tube ID	1,3-Butadiene (ug/m ³)	Flag	Benzene (ug/m ³)	Flag	Ethylbenzene (ug/m ³)	Flag	m-/p-Xylenes (ug/m ³)	Flag	o-Xylene (ug/m ³)	Flag	Toluene (ug/m ³)	Flag
USSCL-PT01-S-20230228	B34585		ND,Rc	7.70	Rc		ND,Rc		ND,Rc		ND,Rc	2.32	P,Rc
USSCL-PT02-S-20230228	B46271		ND,Rc	5.39	Rc		ND,Rc		ND,Rc		ND,Rc	1.37	P,Rc
USSCL-PT03-S-20230228	B30629		ND,Rc	23.8	Rc		ND,Rc		ND,Rc		ND,Rc	19.5	P,Rc
USSCL-PT04-S-20230228	B43391		ND,Rc	34.2	Rc		ND,Rc		ND,Rc		ND,Rc	5.81	P,Rc
USSCL-PT05-S-20230228	B34510		ND,Rc	14.5	Rc		ND,Rc		ND,Rc		ND,Rc	3.84	P,Rc
USSCL-PT06-S-20230228	C01689		ND,Rc	12.8	Rc		ND,Rc		ND,Rc		ND,Rc	9.37	P,Rc
USSCL-PT07-S-20230228	B44275		ND,Rc	5.34	Rc		ND,Rc		ND,Rc		ND,Rc	3.01	P,Rc
USSCL-PT08-S-20230228	B12145		ND,Rc	8.84	Rc		ND,Rc		ND,Rc		ND,Rc	4.55	P,Rc
USSCL-PT09-S-20230228	B33567		ND,Rc	8.09	Rc		ND,Rc		ND,Rc		ND,Rc	4.35	P,Rc
USSCL-PT10-S-20230228	B47130		ND,Rc	14.3	Rc		ND,Rc		ND,Rc		ND,Rc	4.80	P,Rc
USSCL-PT10-D-20230228	B16916		ND,Rc	14.0	Rc		ND,Rc		ND,Rc		ND,Rc	13.5	P,Rc
USSCL-PT10-B-20230228	B31630		ND,Rc	0.251	J,Rc		ND,Rc		ND,Rc		ND,Rc		ND,P,Rc
USSCL-PT11-S-20230228	B17473		ND,Rc	8.12	Rc		ND,Rc		ND,Rc		ND,Rc	21.7	P,Rc
USSCL-PT12-S-20230228	B43008		ND,Rc	6.15	Rc		ND,Rc		ND,Rc		ND,Rc	2.92	P,Rc

J: Estimated Value - The analyte was detected between the Method Detection Limit and Reporting Limit

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

P: Field duplicate(s) exceed 30%RPD

Rc: Recollection analysis

Results

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE106-1 EPA Method 325B Analysis

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

1,3-Butadiene

Sample Code	Tube ID	Conc (ug/m³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m³)	LOQ (ug/m³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20230228	B34585				41.8	0.435	20,107	0.612	0.612	0.277	0.277	ND,Rc
USSCL-PT02-S-20230228	B46271				41.8	0.435	20,107	0.612	0.612	0.277	0.277	ND,Rc
USSCL-PT03-S-20230228	B30629				41.8	0.435	20,107	0.612	0.612	0.277	0.277	ND,Rc
USSCL-PT04-S-20230228	B43391				41.8	0.435	20,106	0.612	0.612	0.277	0.277	ND,Rc
USSCL-PT05-S-20230228	B34510				41.8	0.435	20,106	0.612	0.612	0.277	0.277	ND,Rc
USSCL-PT06-S-20230228	C01689				41.8	0.435	20,106	0.612	0.612	0.277	0.277	ND,Rc
USSCL-PT07-S-20230228	B44275				41.8	0.435	20,106	0.612	0.612	0.277	0.277	ND,Rc
USSCL-PT08-S-20230228	B12145				41.8	0.435	20,071	0.613	0.613	0.277	0.277	ND,Rc
USSCL-PT09-S-20230228	B33567				41.8	0.435	20,071	0.613	0.613	0.277	0.277	ND,Rc
USSCL-PT10-S-20230228	B47130				41.8	0.435	20,070	0.613	0.613	0.277	0.277	ND,Rc
USSCL-PT10-D-20230228	B16916				41.8	0.435	20,068	0.613	0.613	0.277	0.277	ND,Rc
USSCL-PT10-B-20230228	B31630				41.8	0.435	20,066	0.613	0.613	0.277	0.277	ND,Rc
USSCL-PT11-S-20230228	B17473				41.8	0.435	20,070	0.613	0.613	0.277	0.277	ND,Rc
USSCL-PT12-S-20230228	B43008				41.8	0.435	20,069	0.613	0.613	0.277	0.277	ND,Rc

Benzene

Sample Code	Tube ID	Conc (ug/m³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m³)	LOQ (ug/m³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20230228	B34585	7.70	2.41	100	41.8	0.648	20,107	0.192	0.405	0.0601	0.127	Rc
USSCL-PT02-S-20230228	B46271	5.39	1.69	70.2	41.8	0.648	20,107	0.192	0.405	0.0601	0.127	Rc
USSCL-PT03-S-20230228	B30629	23.8	7.44	310	41.8	0.648	20,107	0.192	0.405	0.0601	0.127	Rc
USSCL-PT04-S-20230228	B43391	34.2	10.7	446	41.8	0.648	20,106	0.192	0.405	0.0601	0.127	Rc
USSCL-PT05-S-20230228	B34510	14.5	4.55	189	41.8	0.648	20,106	0.192	0.405	0.0601	0.127	Rc
USSCL-PT06-S-20230228	C01689	12.8	4.00	166	41.8	0.648	20,106	0.192	0.405	0.0601	0.127	Rc
USSCL-PT07-S-20230228	B44275	5.34	1.67	69.5	41.8	0.648	20,106	0.192	0.405	0.0601	0.127	Rc
USSCL-PT08-S-20230228	B12145	8.84	2.77	115	41.8	0.648	20,071	0.192	0.405	0.0602	0.127	Rc
USSCL-PT09-S-20230228	B33567	8.09	2.53	105	41.8	0.648	20,071	0.192	0.405	0.0602	0.127	Rc
USSCL-PT10-S-20230228	B47130	14.3	4.48	186	41.8	0.648	20,070	0.192	0.405	0.0602	0.127	Rc
USSCL-PT10-D-20230228	B16916	14.0	4.38	182	41.8	0.648	20,068	0.192	0.405	0.0602	0.127	Rc
USSCL-PT10-B-20230228	B31630	0.251	0.0787	3.27	41.8	0.648	20,066	0.192	0.405	0.0602	0.127	J,Rc
USSCL-PT11-S-20230228	B17473	8.12	2.54	106	41.8	0.648	20,070	0.192	0.405	0.0602	0.127	Rc
USSCL-PT12-S-20230228	B43008	6.15	1.92	79.9	41.8	0.648	20,069	0.192	0.405	0.0602	0.127	Rc

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE106-1 EPA Method 325B Analysis

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

Ethylbenzene

Sample Code	Tube ID	Conc (ug/m³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m³)	LOQ (ug/m³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20230228	B34585				41.8	0.445	20,107	1.21	1.21	0.279	0.279	ND,Rc
USSCL-PT02-S-20230228	B46271				41.8	0.445	20,107	1.21	1.21	0.279	0.279	ND,Rc
USSCL-PT03-S-20230228	B30629				41.8	0.445	20,107	1.21	1.21	0.279	0.279	ND,Rc
USSCL-PT04-S-20230228	B43391				41.8	0.445	20,106	1.21	1.21	0.279	0.279	ND,Rc
USSCL-PT05-S-20230228	B34510				41.8	0.445	20,106	1.21	1.21	0.279	0.279	ND,Rc
USSCL-PT06-S-20230228	C01689				41.8	0.445	20,106	1.21	1.21	0.279	0.279	ND,Rc
USSCL-PT07-S-20230228	B44275				41.8	0.445	20,106	1.21	1.21	0.279	0.279	ND,Rc
USSCL-PT08-S-20230228	B12145				41.8	0.445	20,071	1.21	1.21	0.280	0.280	ND,Rc
USSCL-PT09-S-20230228	B33567				41.8	0.445	20,071	1.21	1.21	0.280	0.280	ND,Rc
USSCL-PT10-S-20230228	B47130				41.8	0.445	20,070	1.21	1.21	0.280	0.280	ND,Rc
USSCL-PT10-D-20230228	B16916				41.8	0.445	20,068	1.21	1.21	0.280	0.280	ND,Rc
USSCL-PT10-B-20230228	B31630				41.8	0.445	20,066	1.21	1.21	0.280	0.280	ND,Rc
USSCL-PT11-S-20230228	B17473				41.8	0.445	20,070	1.21	1.21	0.280	0.280	ND,Rc
USSCL-PT12-S-20230228	B43008				41.8	0.445	20,069	1.21	1.21	0.280	0.280	ND,Rc

m-/p-Xylenes

Sample Code	Tube ID	Conc (ug/m³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m³)	LOQ (ug/m³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20230228	B34585				41.8	0.445	20,107	1.22	1.22	0.281	0.281	ND,Rc
USSCL-PT02-S-20230228	B46271				41.8	0.445	20,107	1.22	1.22	0.281	0.281	ND,Rc
USSCL-PT03-S-20230228	B30629				41.8	0.445	20,107	1.22	1.22	0.281	0.281	ND,Rc
USSCL-PT04-S-20230228	B43391				41.8	0.445	20,106	1.22	1.22	0.281	0.281	ND,Rc
USSCL-PT05-S-20230228	B34510				41.8	0.445	20,106	1.22	1.22	0.281	0.281	ND,Rc
USSCL-PT06-S-20230228	C01689				41.8	0.445	20,106	1.22	1.22	0.281	0.281	ND,Rc
USSCL-PT07-S-20230228	B44275				41.8	0.445	20,106	1.22	1.22	0.281	0.281	ND,Rc
USSCL-PT08-S-20230228	B12145				41.8	0.445	20,071	1.22	1.22	0.282	0.282	ND,Rc
USSCL-PT09-S-20230228	B33567				41.8	0.445	20,071	1.22	1.22	0.282	0.282	ND,Rc
USSCL-PT10-S-20230228	B47130				41.8	0.445	20,070	1.22	1.22	0.282	0.282	ND,Rc
USSCL-PT10-D-20230228	B16916				41.8	0.445	20,068	1.22	1.22	0.282	0.282	ND,Rc
USSCL-PT10-B-20230228	B31630				41.8	0.445	20,066	1.22	1.22	0.282	0.282	ND,Rc
USSCL-PT11-S-20230228	B17473				41.8	0.445	20,070	1.22	1.22	0.282	0.282	ND,Rc
USSCL-PT12-S-20230228	B43008				41.8	0.445	20,069	1.22	1.22	0.282	0.282	ND,Rc

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE106-1 EPA Method 325B Analysis

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

o-Xylene

Sample Code	Tube ID	Conc (ug/m³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m³)	LOQ (ug/m³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20230228	B34585				41.8	0.445	20,107	1.23	1.23	0.283	0.283	ND,Rc
USSCL-PT02-S-20230228	B46271				41.8	0.445	20,107	1.23	1.23	0.283	0.283	ND,Rc
USSCL-PT03-S-20230228	B30629				41.8	0.445	20,107	1.23	1.23	0.283	0.283	ND,Rc
USSCL-PT04-S-20230228	B43391				41.8	0.445	20,106	1.23	1.23	0.283	0.283	ND,Rc
USSCL-PT05-S-20230228	B34510				41.8	0.445	20,106	1.23	1.23	0.283	0.283	ND,Rc
USSCL-PT06-S-20230228	C01689				41.8	0.445	20,106	1.23	1.23	0.283	0.283	ND,Rc
USSCL-PT07-S-20230228	B44275				41.8	0.445	20,106	1.23	1.23	0.283	0.283	ND,Rc
USSCL-PT08-S-20230228	B12145				41.8	0.445	20,071	1.23	1.23	0.283	0.283	ND,Rc
USSCL-PT09-S-20230228	B33567				41.8	0.445	20,071	1.23	1.23	0.283	0.283	ND,Rc
USSCL-PT10-S-20230228	B47130				41.8	0.445	20,070	1.23	1.23	0.283	0.283	ND,Rc
USSCL-PT10-D-20230228	B16916				41.8	0.445	20,068	1.23	1.23	0.283	0.283	ND,Rc
USSCL-PT10-B-20230228	B31630				41.8	0.445	20,066	1.23	1.23	0.283	0.283	ND,Rc
USSCL-PT11-S-20230228	B17473				41.8	0.445	20,070	1.23	1.23	0.283	0.283	ND,Rc
USSCL-PT12-S-20230228	B43008				41.8	0.445	20,069	1.23	1.23	0.283	0.283	ND,Rc

Toluene

Sample Code	Tube ID	Conc (ug/m³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m³)	LOQ (ug/m³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20230228	B34585	2.32	0.617	23.5	41.8	0.503	20,107	1.08	1.08	0.288	0.288	P,Rc
USSCL-PT02-S-20230228	B46271	1.37	0.365	13.9	41.8	0.503	20,107	1.08	1.08	0.288	0.288	P,Rc
USSCL-PT03-S-20230228	B30629	19.5	5.18	197	41.8	0.503	20,107	1.08	1.08	0.288	0.288	P,Rc
USSCL-PT04-S-20230228	B43391	5.81	1.54	58.7	41.8	0.503	20,106	1.08	1.08	0.288	0.288	P,Rc
USSCL-PT05-S-20230228	B34510	3.84	1.02	38.8	41.8	0.503	20,106	1.08	1.08	0.288	0.288	P,Rc
USSCL-PT06-S-20230228	C01689	9.37	2.49	94.7	41.8	0.503	20,106	1.08	1.08	0.288	0.288	P,Rc
USSCL-PT07-S-20230228	B44275	3.01	0.799	30.4	41.8	0.503	20,106	1.08	1.08	0.288	0.288	P,Rc
USSCL-PT08-S-20230228	B12145	4.55	1.21	45.9	41.8	0.503	20,071	1.08	1.08	0.288	0.288	P,Rc
USSCL-PT09-S-20230228	B33567	4.35	1.15	43.9	41.8	0.503	20,071	1.08	1.08	0.288	0.288	P,Rc
USSCL-PT10-S-20230228	B47130	4.80	1.27	48.4	41.8	0.503	20,070	1.08	1.08	0.288	0.288	P,Rc
USSCL-PT10-D-20230228	B16916	13.5	3.57	136	41.8	0.503	20,068	1.08	1.08	0.288	0.288	P,Rc
USSCL-PT10-B-20230228	B31630				41.8	0.503	20,066	1.08	1.08	0.288	0.288	ND,P,Rc
USSCL-PT11-S-20230228	B17473	21.7	5.76	219	41.8	0.503	20,070	1.08	1.08	0.288	0.288	P,Rc
USSCL-PT12-S-20230228	B43008	2.92	0.774	29.4	41.8	0.503	20,069	1.08	1.08	0.288	0.288	P,Rc

J: Estimated Value - The analyte was detected between the Method Detection Limit and Reporting Limit

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

P: Field duplicate(s) exceed 30%RPD

Rc: Recollection analysis

QC

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE106-1 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 ³)	USSCL-PT10-B-20230228	ND	Pass	0.251	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass
Duplicates (difference)	USSCL-PT10-D-20230228		Pass	2.1%	Pass		Pass		Pass		Pass	95%	Fail

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	All4, Inc.
Site	US Steel Corp - Clairton Works ICR
Project	00701-0002.00
Report #	2023EE106

Custody	<p>Wilson Matthews of Enthalpy Analytical, LLC received the thermal desorption sample tubes on 03/15/2023. The tubes were received in good condition at a temperature of 6.3 °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>
Analysis	<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 8890, Gas Chromatograph "Voldemort" (S/N US2215A022) was equipped with a 5977 Mass Selective Detector (S/N US2210M022) for these analyses.</p> <p>The Perkin-Elmer ATD-650 Thermal Desorber introduced the samples and standards to the analyzer.</p>
Chromatographic Conditions	<p>A copy of the acquisition method (M325B-TD-CRYO9.M) is not included in this report but may be available upon request.</p>
Calibration	<p>The lowest calibration level for ICAL V033023A_BUT_BTEX did not meet method criteria for Toluene, Ethylbenzene, m-/p-Xylene, or o-Xylene and was excluded from the calibration. This results in the LOQ (Limit of Quantitation) being elevated for these analytes. The integrity of the reported data is not compromised.</p> <p>All BFB criteria have been met for this analysis. The initial calibration (V033023A_BUT_BTEX) met 30% RSD criteria. The initial calibration verifications met 30% recovery criteria. The continuing calibration verifications met 30% difference criteria. The initial and continuing calibration raw data are not included in this report but are available upon request.</p>



Enthalpy Analytical Narrative Summary (continued)

QC Notes

All internal standard response and retention time criteria were met for these analyses.

The field blank met the requirements of the method.

The primary sample USSCL-PT10-S-20230228 (tube B47130) and its corresponding duplicate USSCL-PT10-D-20230228 (tube B16916) failed to meet the 30% difference criterion for toluene as outlined in EPA Method 325B. The lab could not determine a cause for the difference. The toluene results for all samples in the data set have been flagged "P" to denote this failure. The collocated pairs met the 30% difference criterion for all other target compounds.

Reporting Notes

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.

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



ENTHALPY
ANALYTICAL

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

Page # 1 of 2 #

☒ Standard Turn Around Time (10 business days)

☐ Rush Turn Around Time

• All TATs Subject to Approval by Enthalpy Analytical, Inc.

• 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	PO#:
Site Address: 400 State Street	Project Number: 00701-0002.00	Sample Event #
City: Clairton	Project Manager: Dustin Snare	Sorbent:
State: PA	Email Address: dsnare@all4inc.com	
Zip: 15025	Telephone #: (610) 422-1126	

Location	Sample ID (Tube ID)	Sample, Blank or Duplicate	Start Date	Start Time	Stop Date	Stop Time	Deployed/ Collected by	Ave. Pressure (inHg)	Avg. Ambient Temp. (°F)
PT01-230228-S	B34585	S	23/02/28	8:55 AM	23/03/14	9:02 AM	SRQ		
PT02-230228-S	B46271	S	23/02/28	8:59 AM	23/03/14	9:06 AM	SRQ		
PT03-230228-S	B30629	S	23/02/28	9:03 AM	23/03/14	9:10 AM	SRQ		
PT04-230228-S	B43391	S	23/02/28	9:07 AM	23/03/14	9:13 AM	SRQ		
PT05-230228-S	B34510	S	23/02/28	9:12 AM	23/03/14	9:18 AM	SRQ		
PT06-230228-S	C01689	S	23/02/28	9:21 AM	23/03/14	9:27 AM	SRQ		
PT07-230228-S	B44275	S	23/02/28	9:17 AM	23/03/14	9:23 AM	SRQ		
PT08-230228-S	B12145	S	23/02/28	10:02 AM	23/03/14	9:33 AM	SRQ		

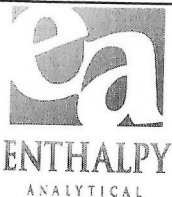
Relinquished By (printed): Stacy Arner **Relinquished By (signature):** *Stacy Arner* **Relinquished Date:** 23/03/14 **Relinquished Time:** 11:15 AM

Received By (printed): Wilson Matthews **Received By (signature):** *Wilson Matthews* **Receipt Date:** 3/15/23 **Receipt Time:** 10:00

Sample Condition Upon Receipt: GOOD **Compound List:** **Custody Seal intact? Y/N:** Y **Delivery tracking #**

Ice Temp: -1.0 **Blank Temp:** 6.3 **Fluke #** 3 **Add Custody Seal # below:** 22 M01090

Comments: Intermittent rain showers during deployment



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

Page # 2 of 2 #

☒ Standard Turn Around Time (10 business days)

☐ Rush Turn Around Time

• All TATs Subject to Approval by Enthalpy Analytical, Inc.

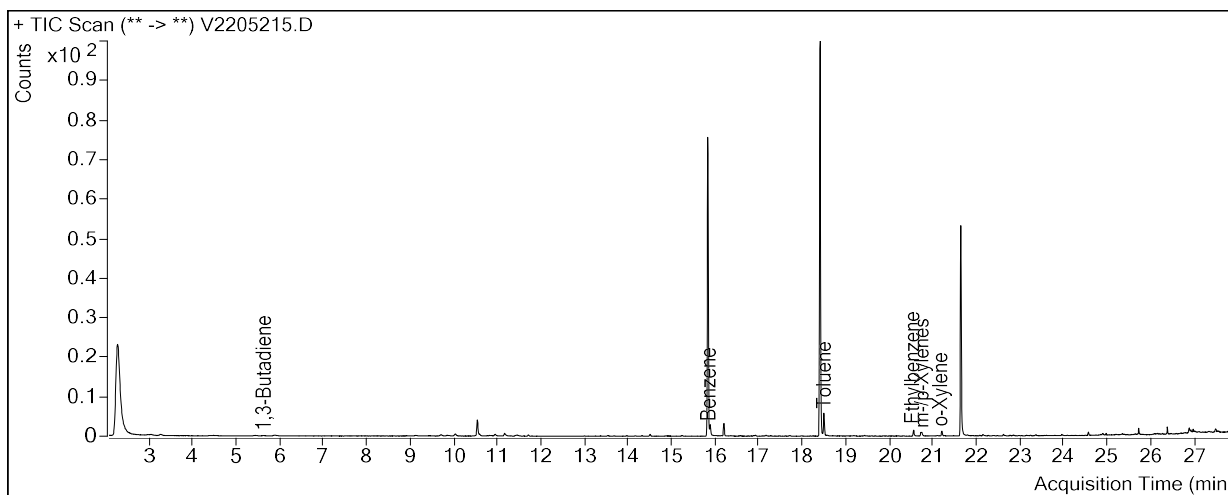
• Unless otherwise specified, sample tubes will be conditioned for re-use 3 business days after submission of results

Site Name: US Steel Corp - Clairton Works		Client Name: ALL4 LLC		PO#:					
Site Address: 400 State Street		Project Number: 00701-0002.00		Sample Event #					
City: Clairton		Project Manager: Dustin Snare		Sorbent:					
State: PA		Email Address: dsnares@all4inc.com							
Zip: 15025		Telephone #: (412) 422-1126							
Location	Sample ID (Tube ID)	Sample, Blank or Duplicate	Start Date	Start Time	Stop Date	Stop Time	Deployed/Collected by	Ave. Pressure (inHg)	Avg. Ambient Temp. (°F)
PT09-230228-S	B33567	S	23/02/28	10:00 AM	23/03/14	9:37 AM	SP29		
PT10-230228-S	B47130	S	23/02/28	10:13 AM	23/03/14	9:43 AM	SP29		
PT10-230228-D	B16916	D	23/02/28	10:14 AM	23/03/14	9:42 AM	SP29		
PT10-230228-B	B431630	B	23/02/28	10:15 AM	23/03/14	9:41 AM	SP29		
PT11-230228-S	B17473	S	23/02/28	10:18 AM	23/03/14	9:48 AM	SP29		
PT12-230228-S	B43008	S	23/02/28	10:22 AM	23/03/14	9:51 AM	SP29		
							/		
							/		
Relinquished By (printed): Stacy Arner			Relinquished By (signature): <i>Stacy Arner</i>			Relinquished Date: 23/03/14		Relinquished Time: 11:15 AM	
Received By (printed): Wilson Matthews			Received By (signature): <i>Wilson Matthews</i>			Receipt Date: 3/15/23		Receipt Time: 10:00	
Sample Condition Upon Receipt: Good			Compound List:			Custody Seal intact? Y/N: Y		Delivery tracking #	
Ice Temp: -1.0	Blank Temp: 6.3	Filme 3				Add Custody Seal # below: 22 M01090			

Comments: Intermittent rain showers during deployment

Sample Chromatograms

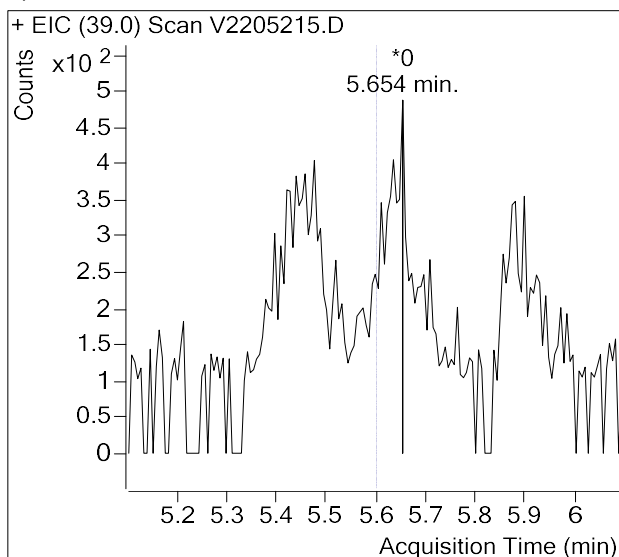
Sample Name : 2023EE106 Method Blank-1
Sample Info : B33865; Recollect
Data File : V2205215.D
Acquisition Date : 2023-03-30 15:22:36
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



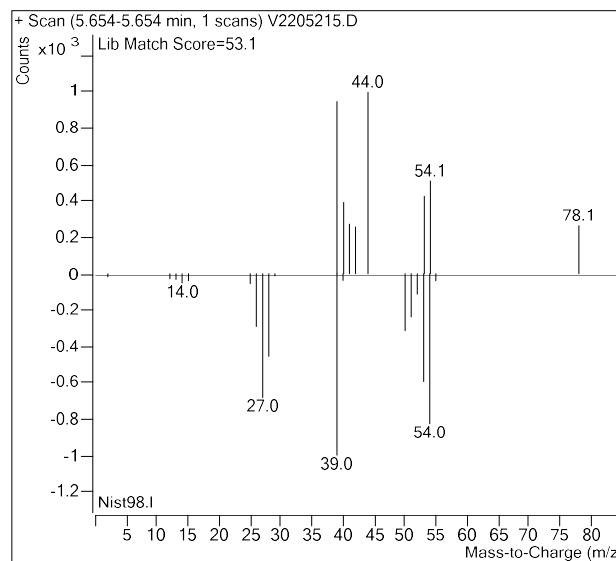
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	776,176	
Benzene	15.90	27,986	m
Toluene-d8 (IS)	18.42	745,474	
Toluene	18.51	44,224	
Ethylbenzene	20.57	14,644	
m-/p-Xylenes	20.75	13,124	
o-Xylene	21.21	10,471	

(m)=Manual Integration

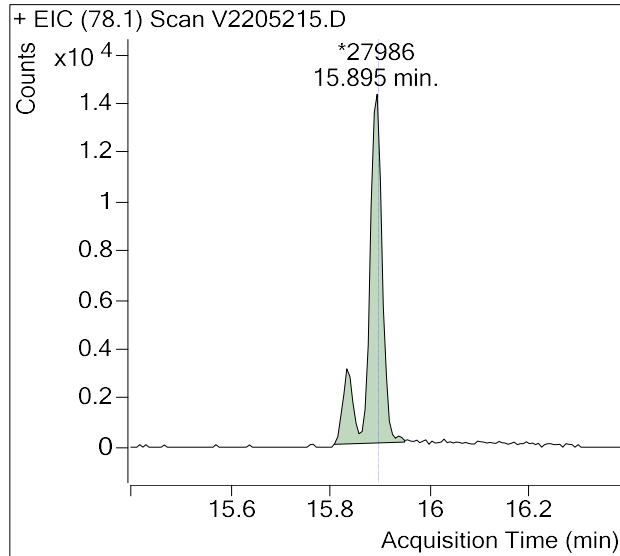
1,3-Butadiene



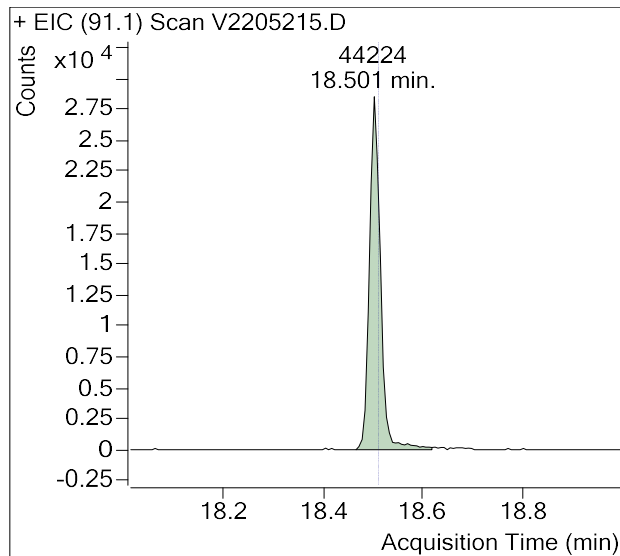
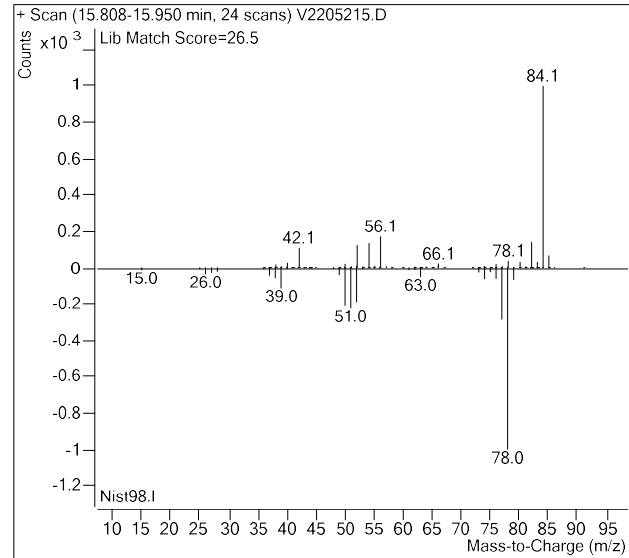
Benzene



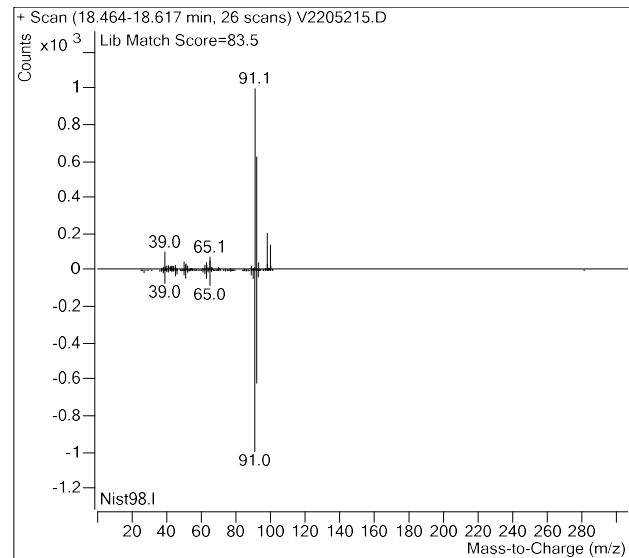
Sample Name : 2023EE106 Method Blank-1
Sample Info : B33865; Recollect
Data File : V2205215.D
Acquisition Date : 2023-03-30 15:22:36
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



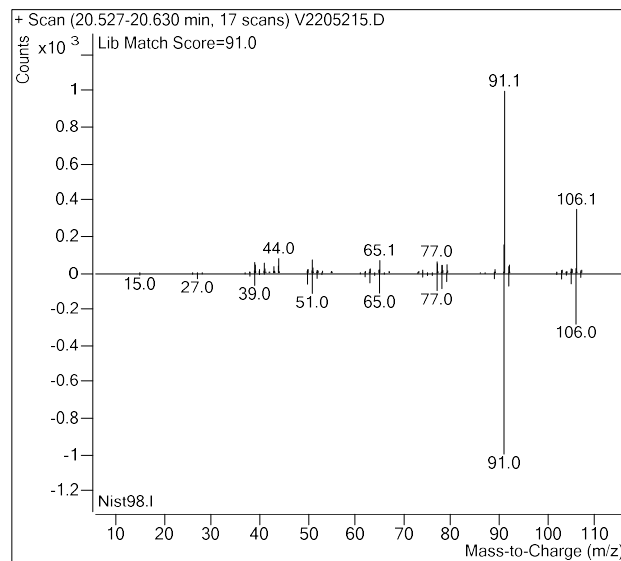
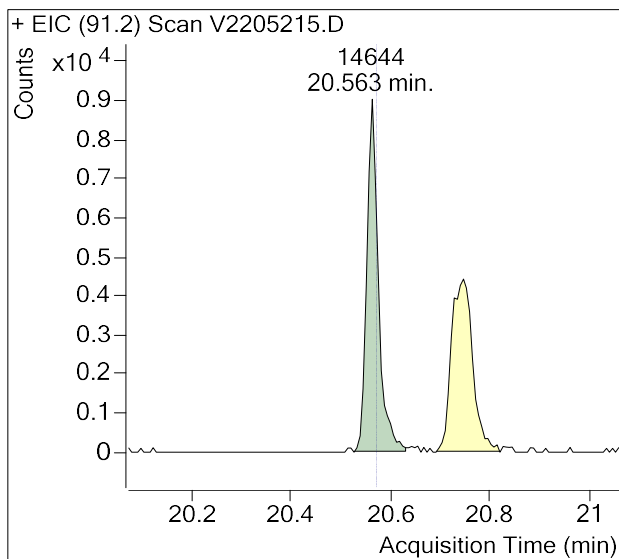
Toluene



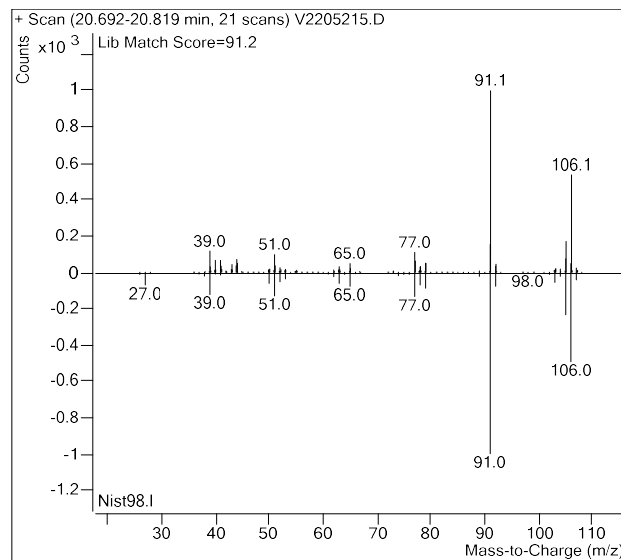
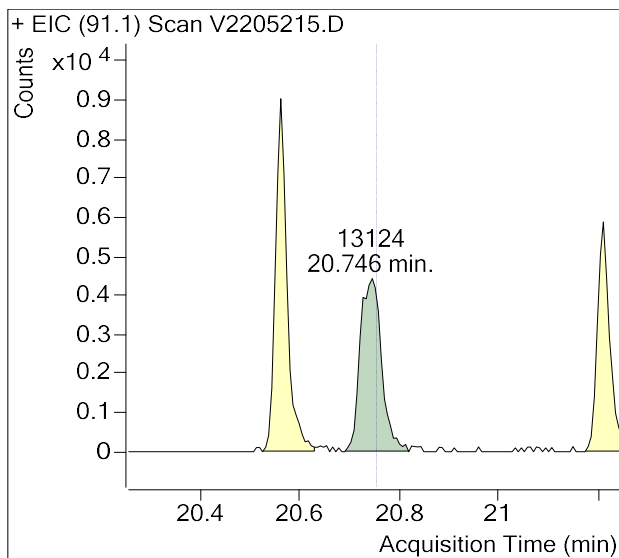
Ethylbenzene



Sample Name : 2023EE106 Method Blank-1
Sample Info : B33865; Recollect
Data File : V2205215.D
Acquisition Date : 2023-03-30 15:22:36
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

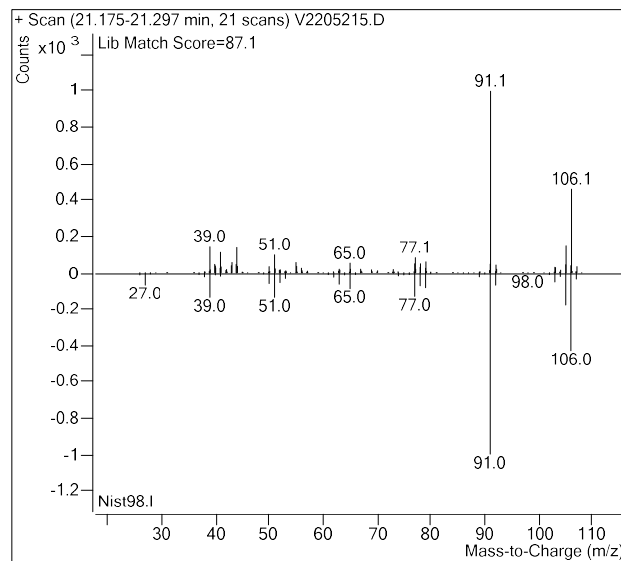
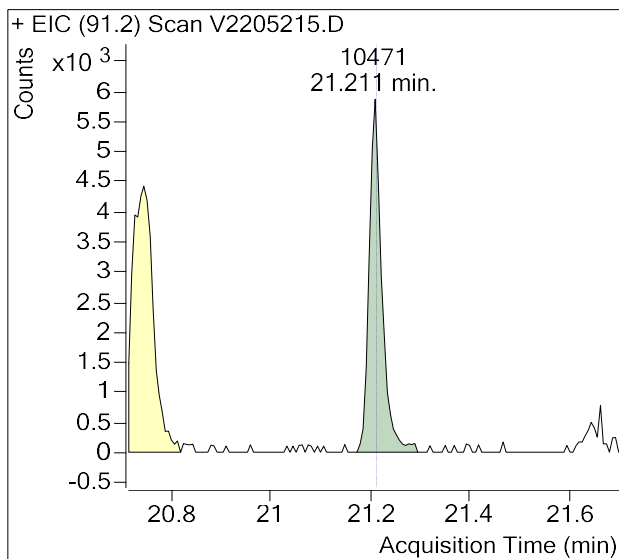


m-/p-Xylenes

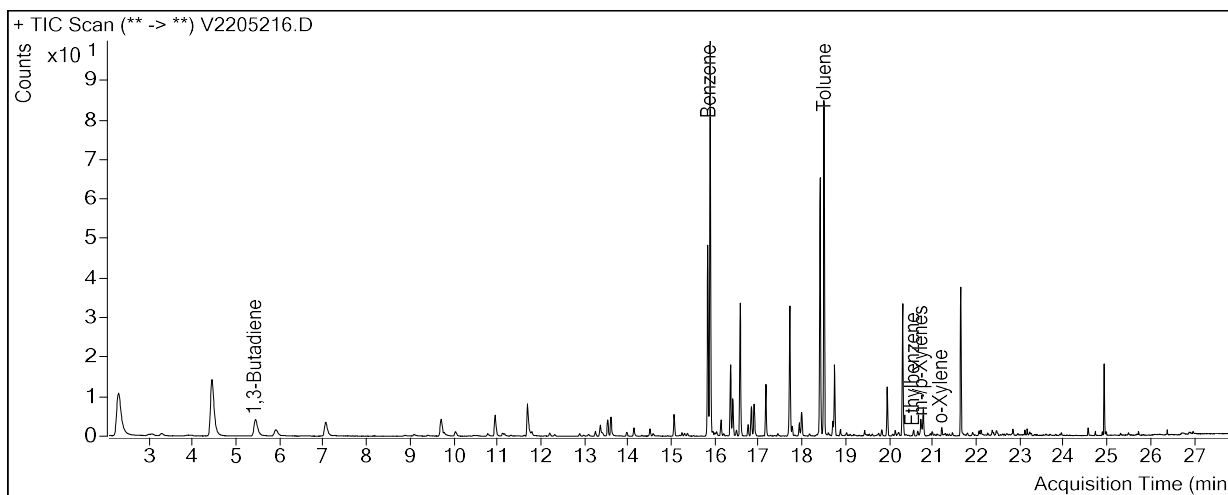


o-Xylene

Sample Name : 2023EE106 Method Blank-1
Sample Info : B33865; Recollect
Data File : V2205215.D
Acquisition Date : 2023-03-30 15:22:36
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



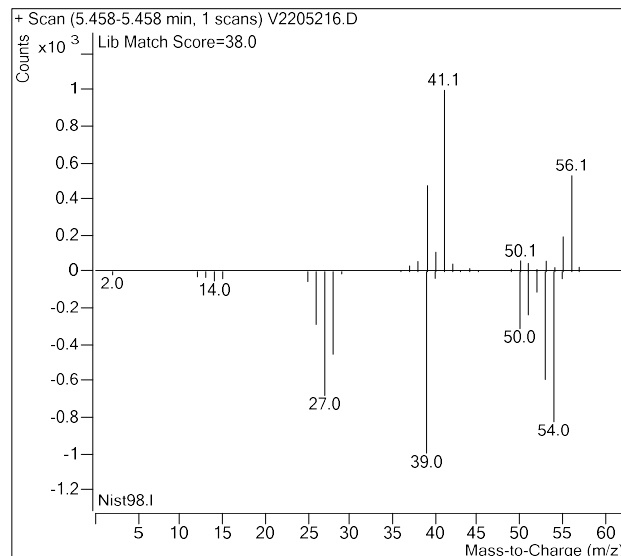
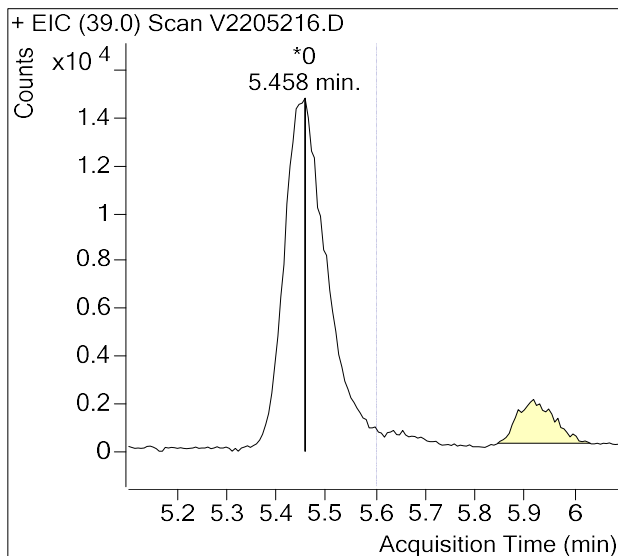
Sample Name : USSCL-PT10-B-20230228
Sample Info : B16916; Recollect
Data File : V2205216.D
Acquisition Date : 2023-03-30 16:03:57
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	787,643	
Benzene	15.90	1,553,171	
Toluene-d8 (IS)	18.42	751,845	
Toluene	18.51	1,086,127	
Ethylbenzene	20.57	17,626	
m-/p-Xylenes	20.75	59,666	
o-Xylene	21.21	21,936	

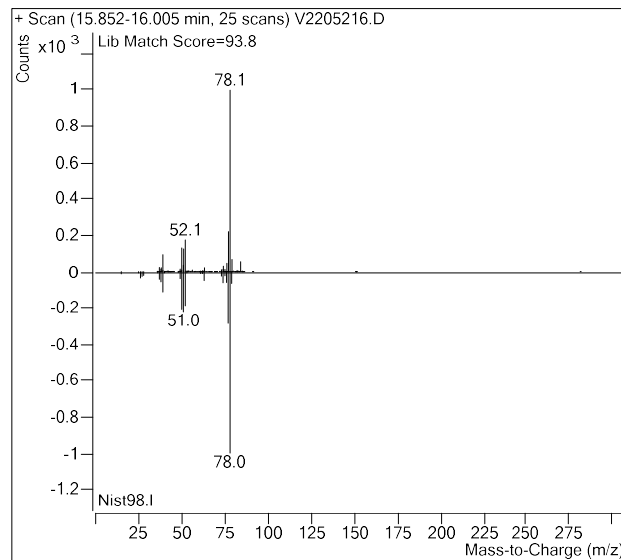
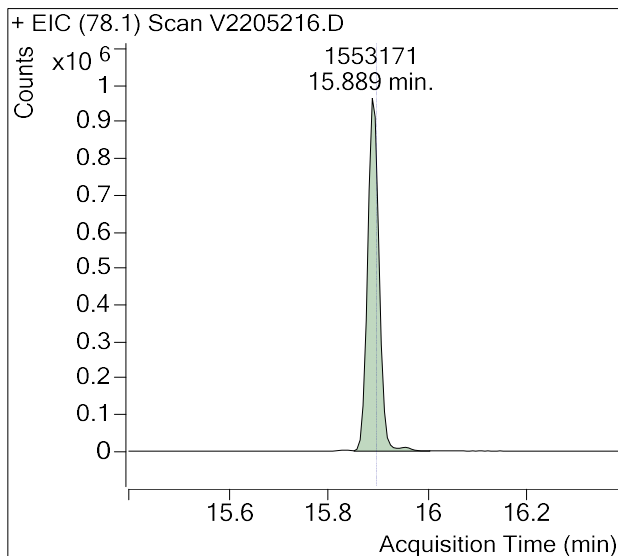
(m)=Manual Integration

1,3-Butadiene

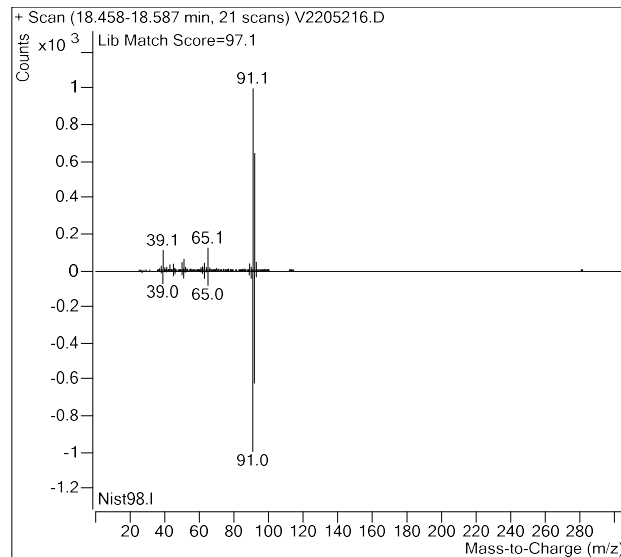
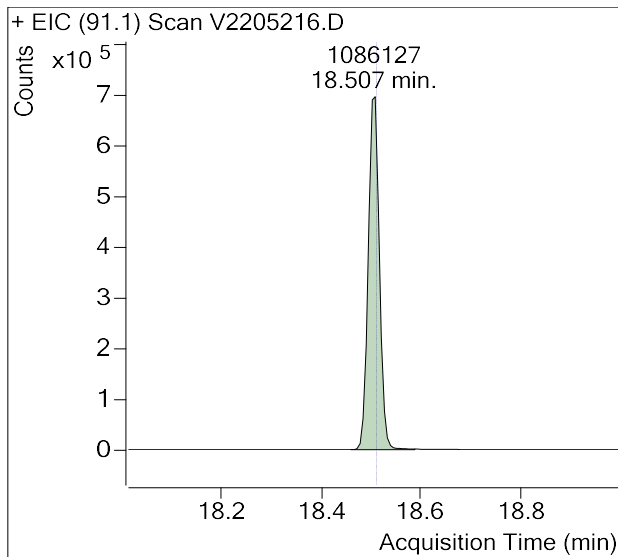


Sample Name : USSCL-PT10-B-20230228
Sample Info : B16916; Recollect
Data File : V2205216.D
Acquisition Date : 2023-03-30 16:03:57
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene



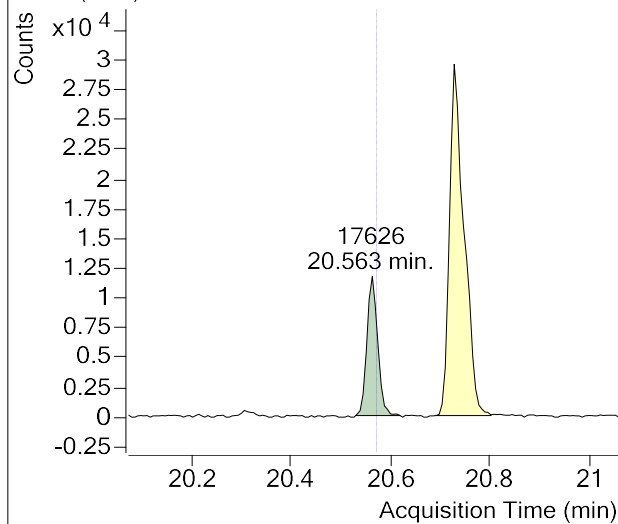
Toluene



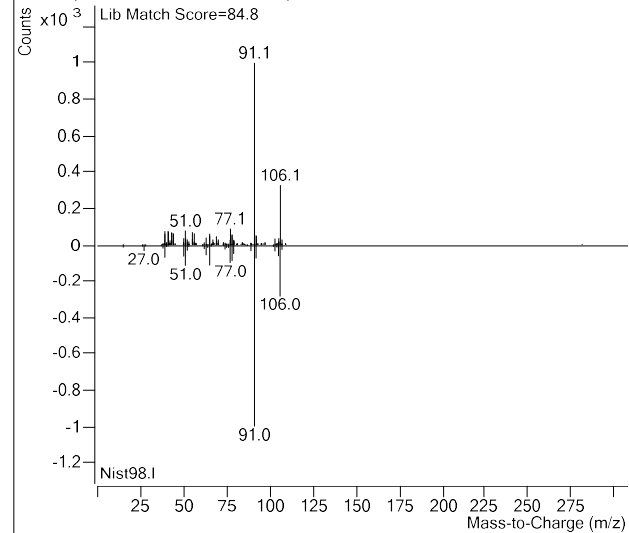
Sample Name : USSCL-PT10-B-20230228
Sample Info : B16916; Recollect
Data File : V2205216.D
Acquisition Date : 2023-03-30 16:03:57
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

+ EIC (91.2) Scan V2205216.D

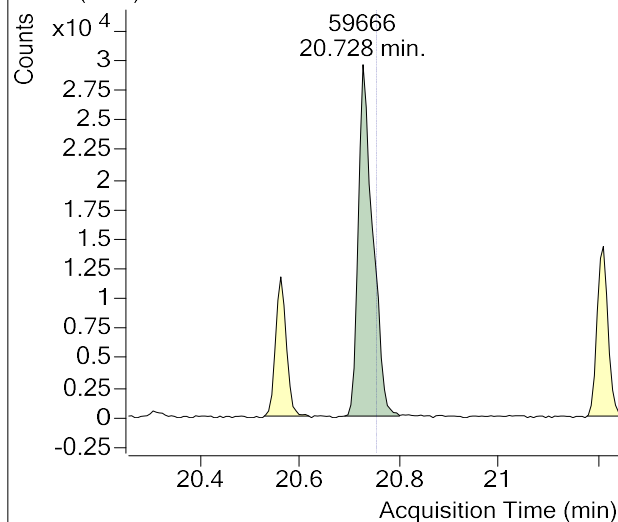


+ Scan (20.530-20.619 min, 15 scans) V2205216.D

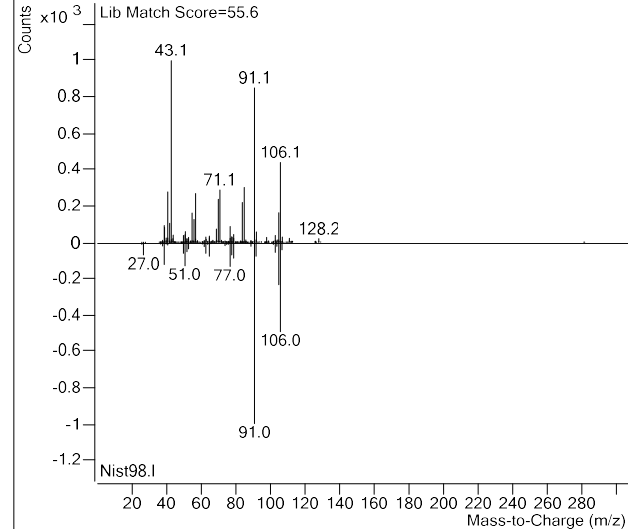


m-/p-Xylenes

+ EIC (91.1) Scan V2205216.D

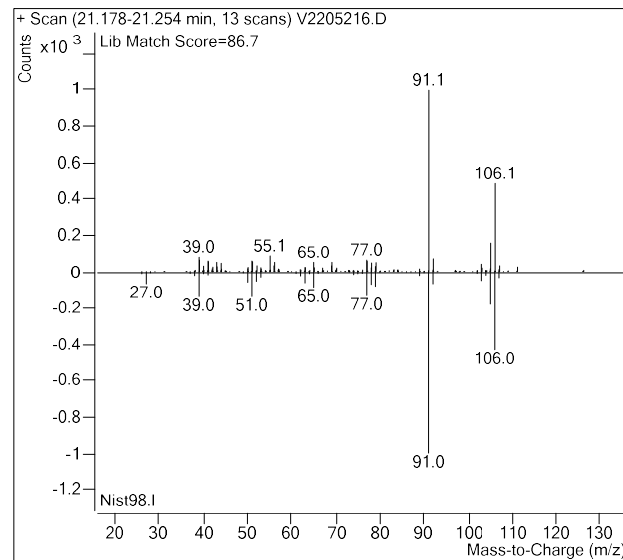
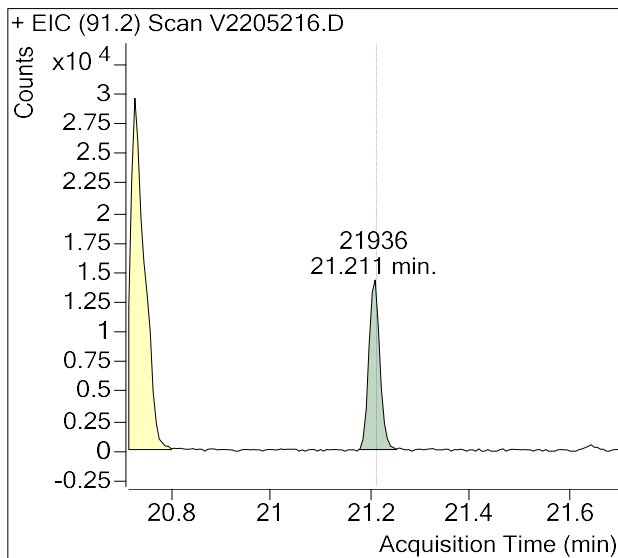


+ Scan (20.691-20.801 min, 19 scans) V2205216.D

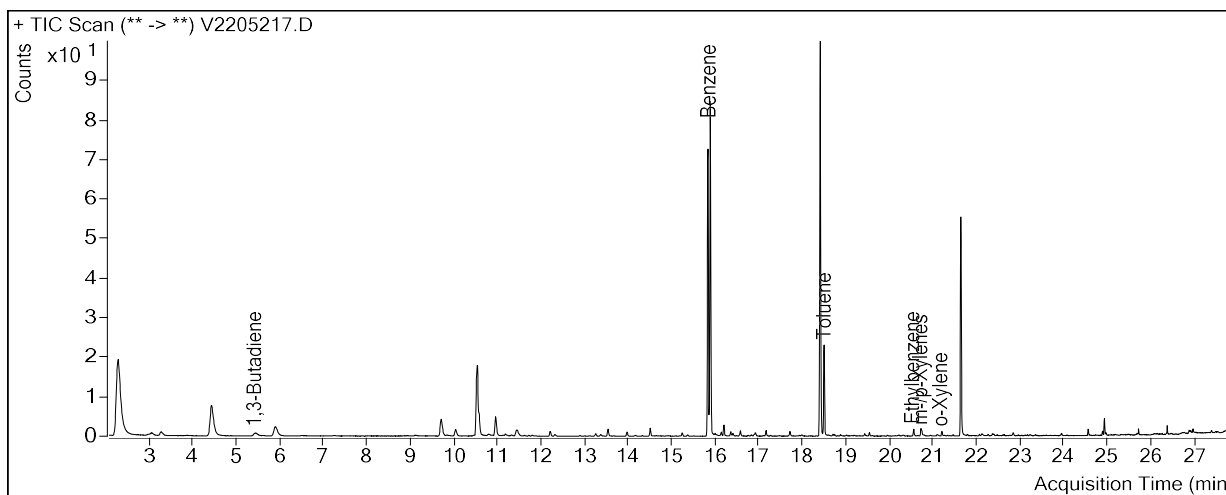


Sample Name : USSCL-PT10-B-20230228
Sample Info : B16916; Recollect
Data File : V2205216.D
Acquisition Date : 2023-03-30 16:03:57
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



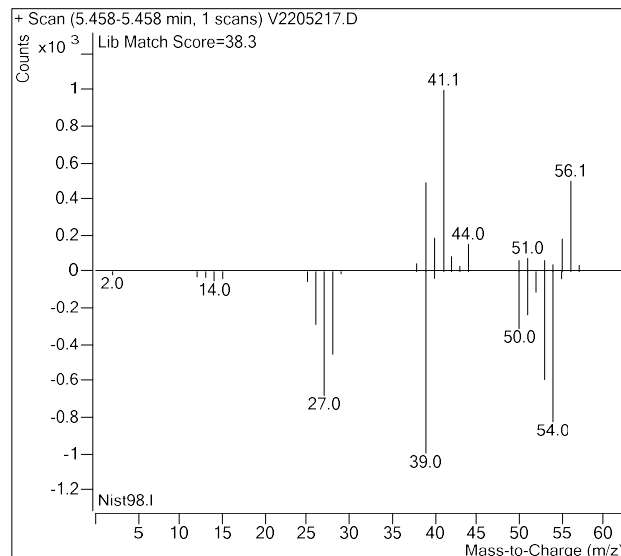
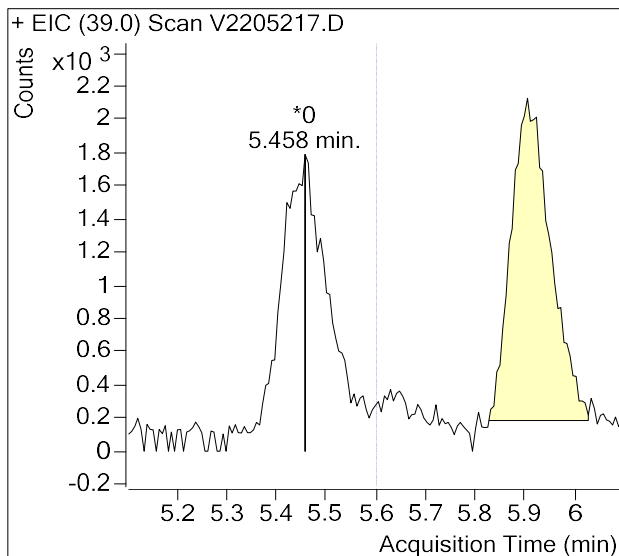
Sample Name : USSCL-PT01-S-20230228
Sample Info : B34585; Recollect
Data File : V2205217.D
Acquisition Date : 2023-03-30 16:45:39
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	766,582	
Benzene	15.90	832,869	
Toluene-d8 (IS)	18.42	740,345	
Toluene	18.51	184,922	
Ethylbenzene	20.57	16,128	
m-/p-Xylenes	20.75	20,761	
o-Xylene	21.21	9,517	

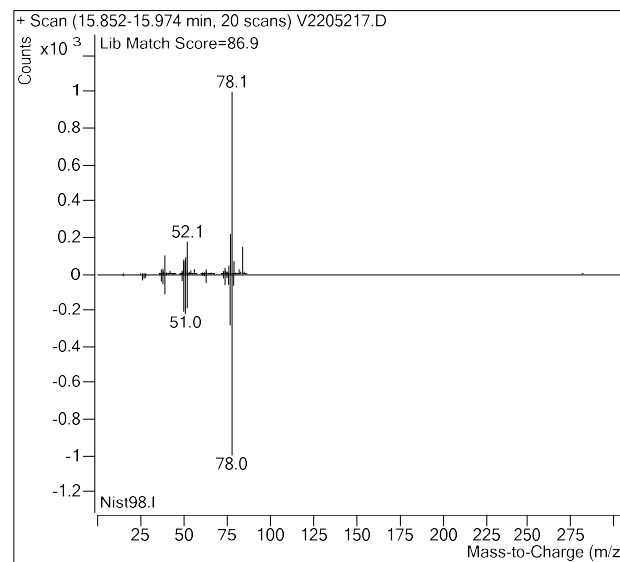
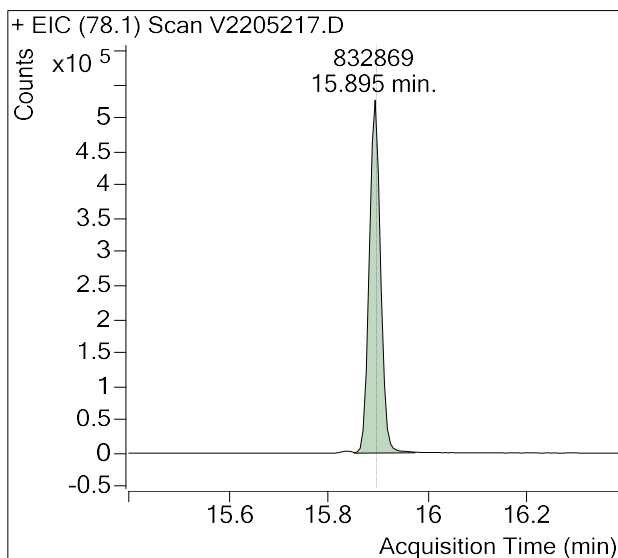
(m)=Manual Integration

1,3-Butadiene

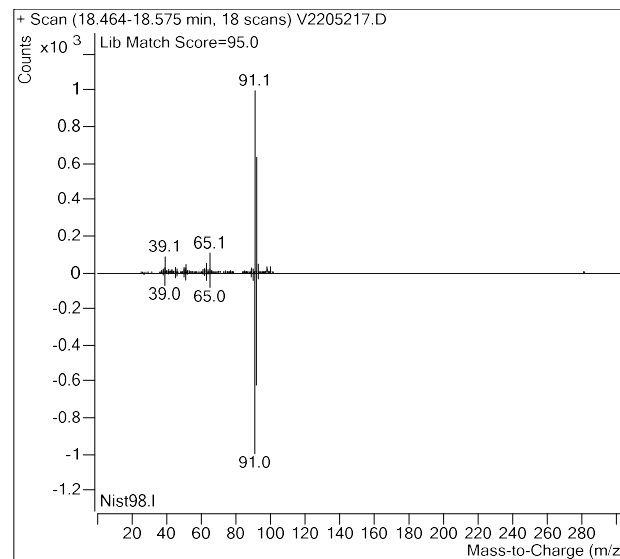
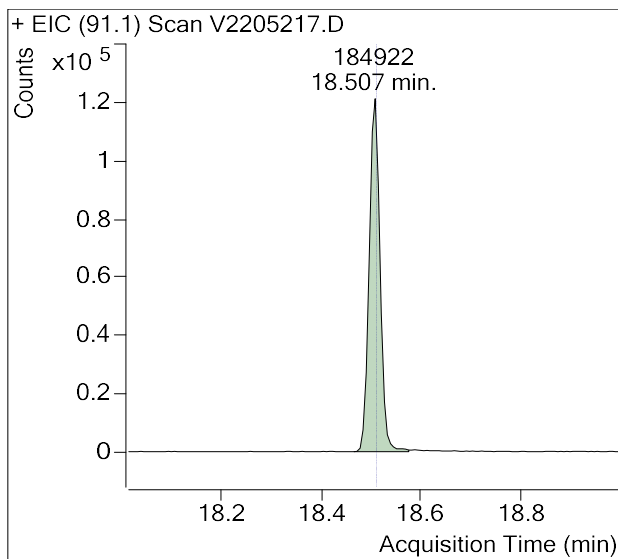


Sample Name : USSCL-PT01-S-20230228
Sample Info : B34585; Recollect
Data File : V2205217.D
Acquisition Date : 2023-03-30 16:45:39
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

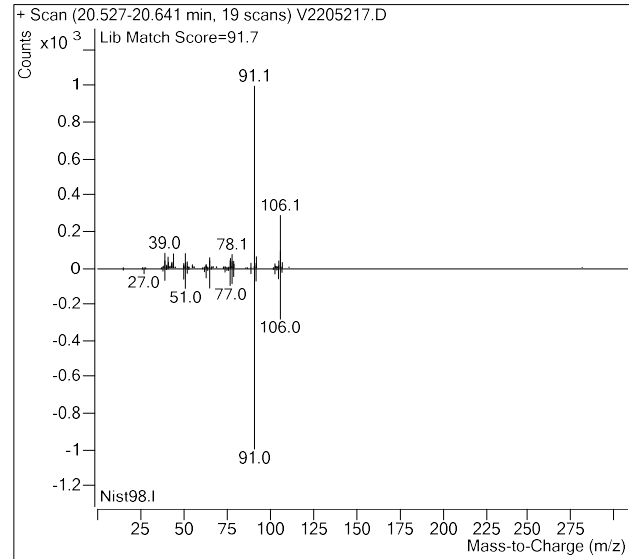
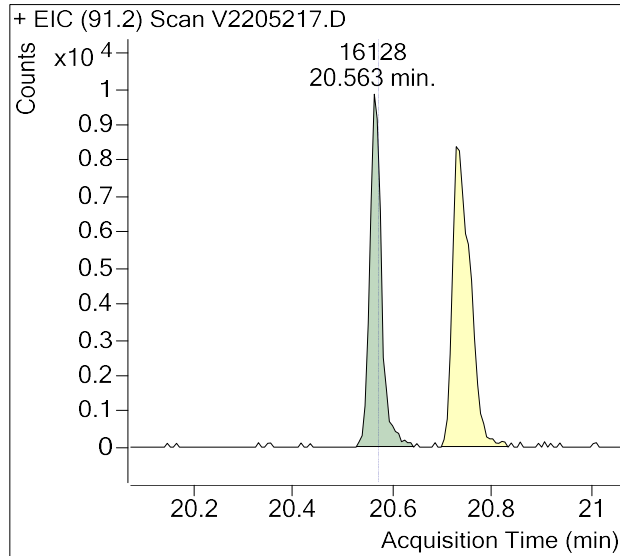


Toluene

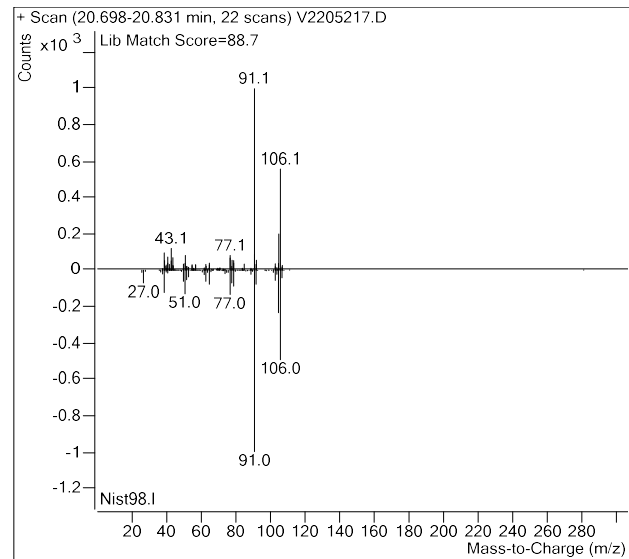
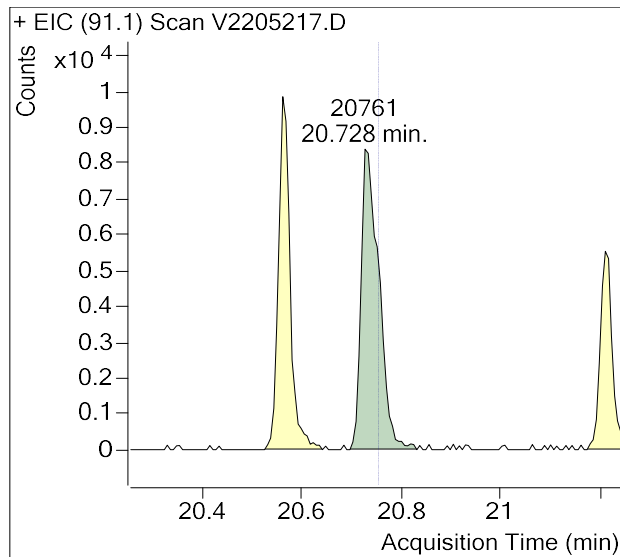


Sample Name : USSCL-PT01-S-20230228
Sample Info : B34585; Recollect
Data File : V2205217.D
Acquisition Date : 2023-03-30 16:45:39
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

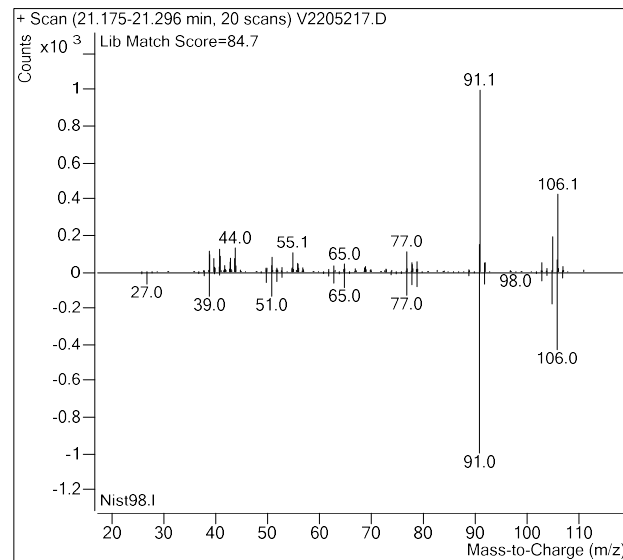
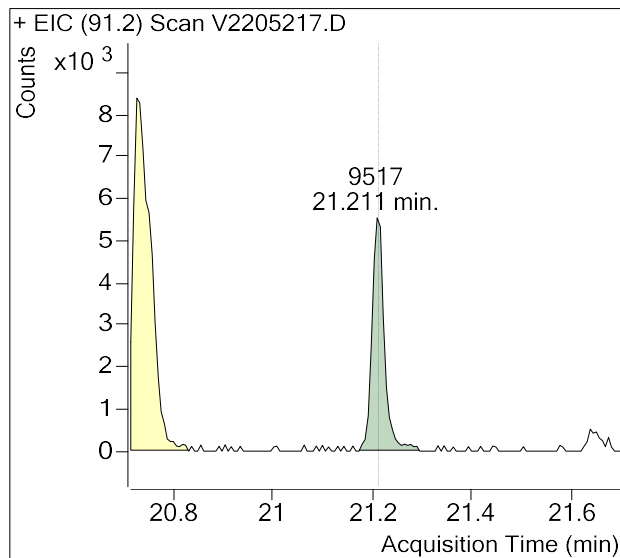


m-/p-Xylenes

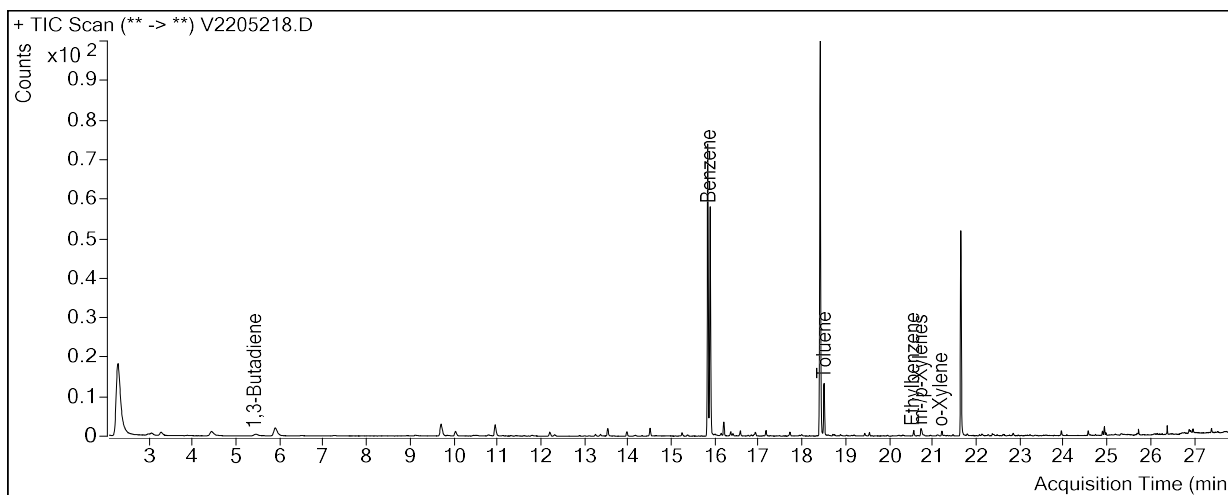


Sample Name : USSCL-PT01-S-20230228
Sample Info : B34585; Recollect
Data File : V2205217.D
Acquisition Date : 2023-03-30 16:45:39
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



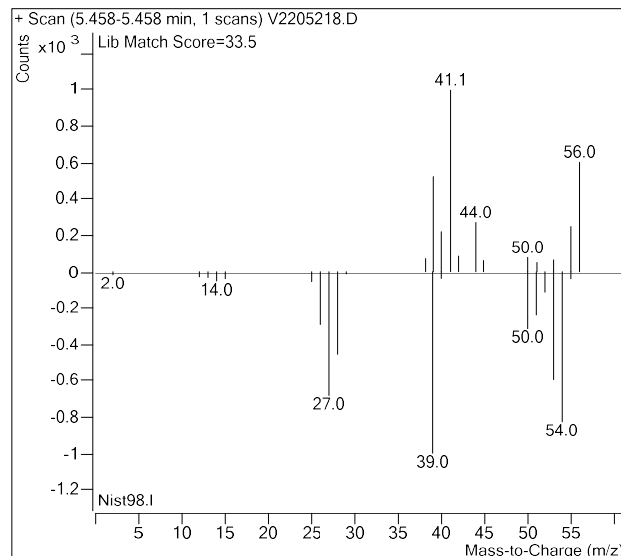
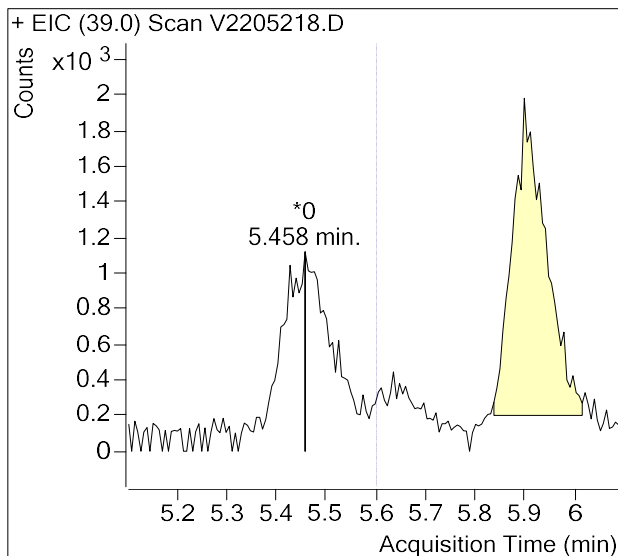
Sample Name : USSCL-PT02-S-20230228
Sample Info : B46271; Recollect
Data File : V2205218.D
Acquisition Date : 2023-03-30 17:26:51
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	775,701	
Benzene	15.90	589,955	
Toluene-d8 (IS)	18.42	744,735	
Toluene	18.51	110,038	
Ethylbenzene	20.57	13,742	
m-/p-Xylenes	20.75	21,194	
o-Xylene	21.21	9,529	

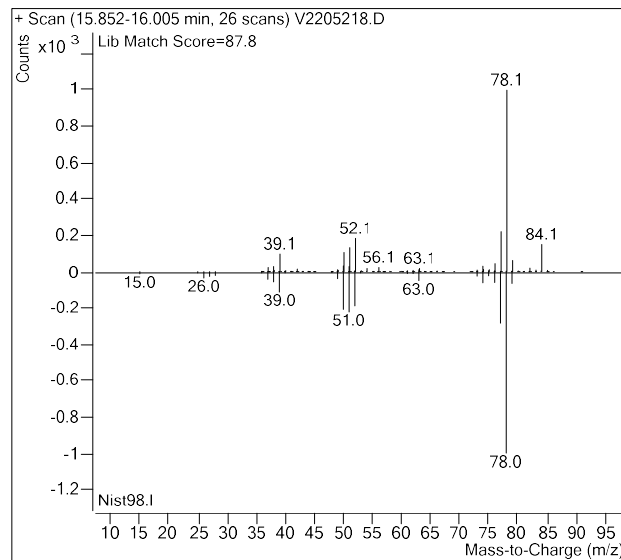
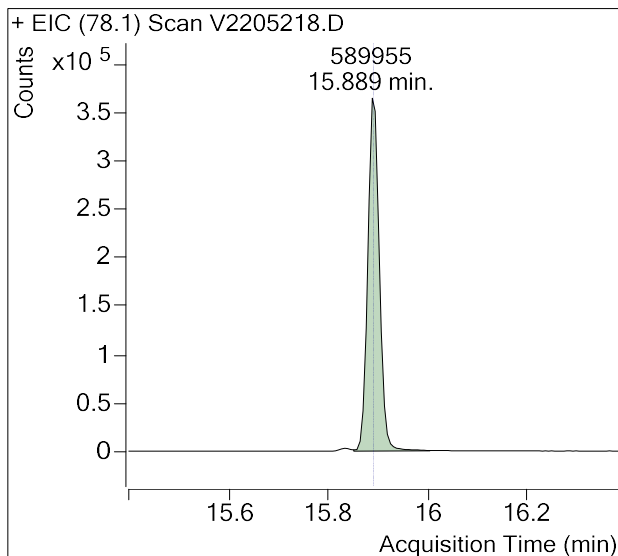
(m)=Manual Integration

1,3-Butadiene

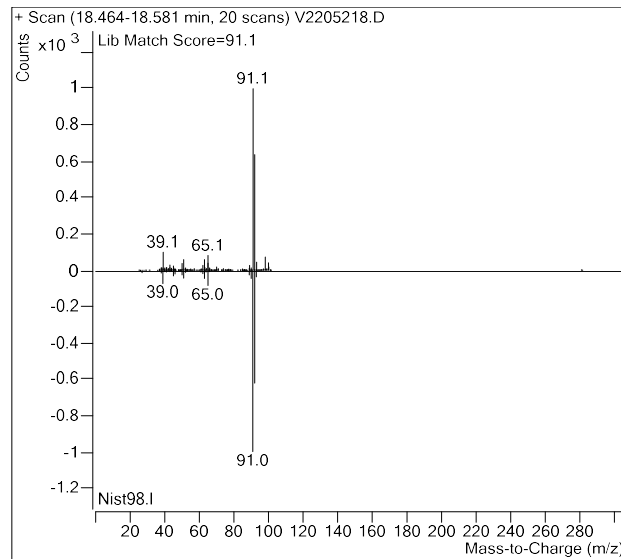
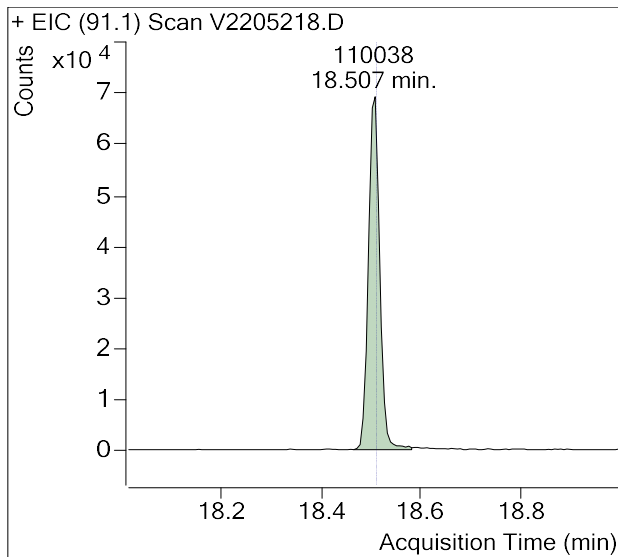


Sample Name : USSCL-PT02-S-20230228
Sample Info : B46271; Recollect
Data File : V2205218.D
Acquisition Date : 2023-03-30 17:26:51
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene



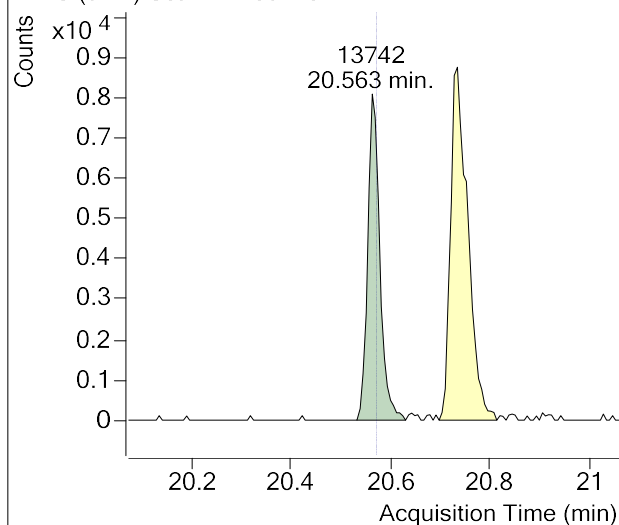
Toluene



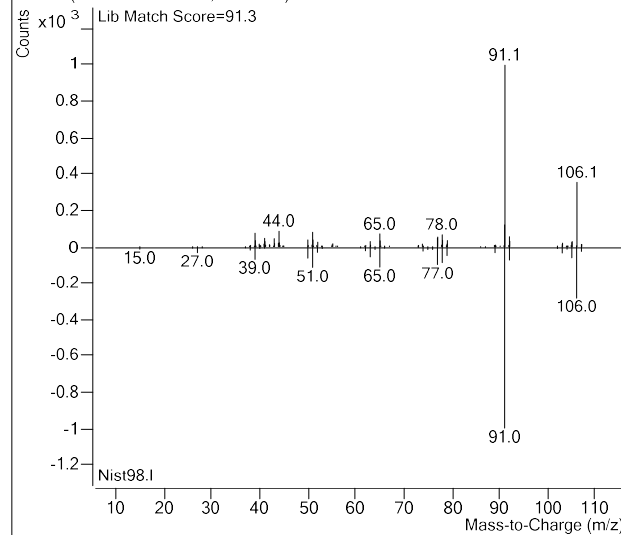
Sample Name : USSCL-PT02-S-20230228
Sample Info : B46271; Recollect
Data File : V2205218.D
Acquisition Date : 2023-03-30 17:26:51
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

+ EIC (91.2) Scan V2205218.D

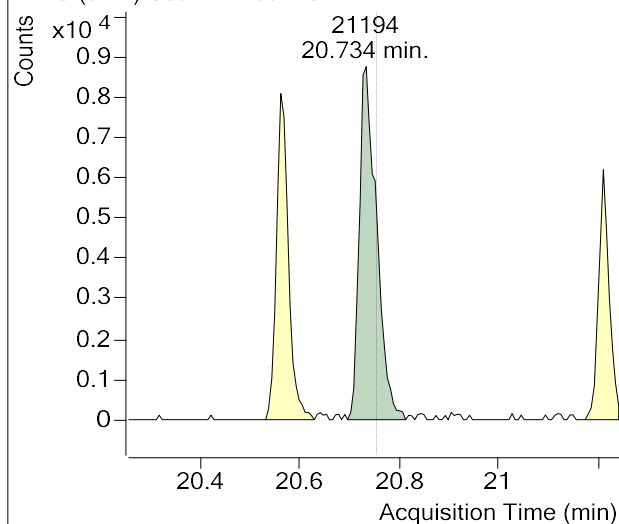


+ Scan (20.532-20.630 min, 16 scans) V2205218.D

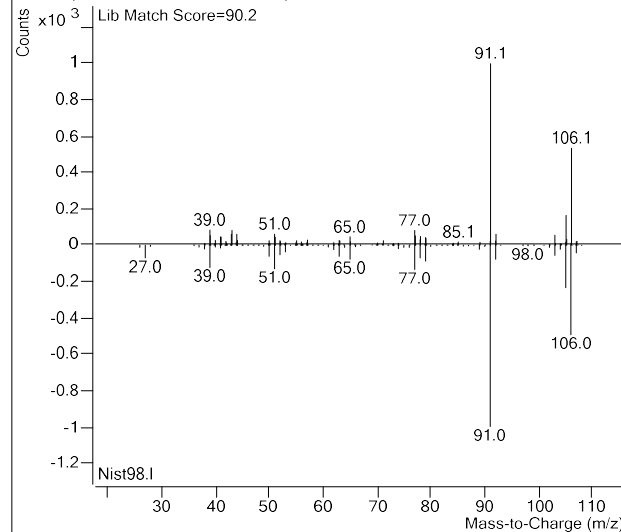


m-/p-Xylenes

+ EIC (91.1) Scan V2205218.D

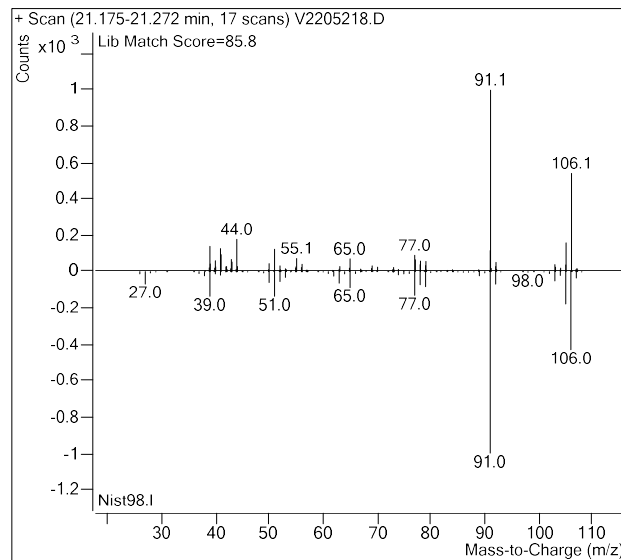
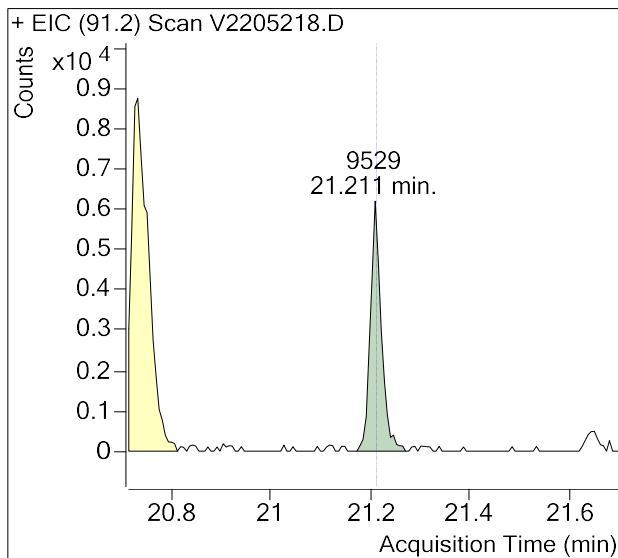


+ Scan (20.697-20.814 min, 19 scans) V2205218.D

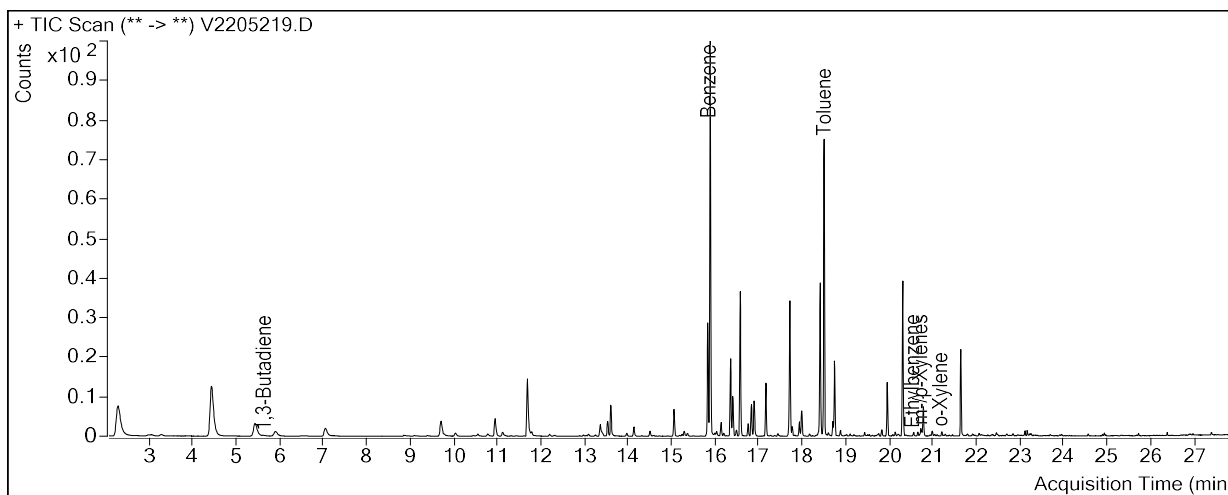


Sample Name : USSCL-PT02-S-20230228
Sample Info : B46271; Recollect
Data File : V2205218.D
Acquisition Date : 2023-03-30 17:26:51
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



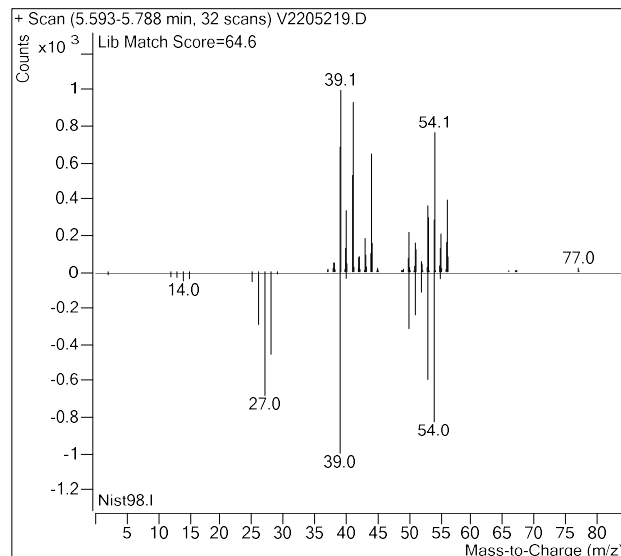
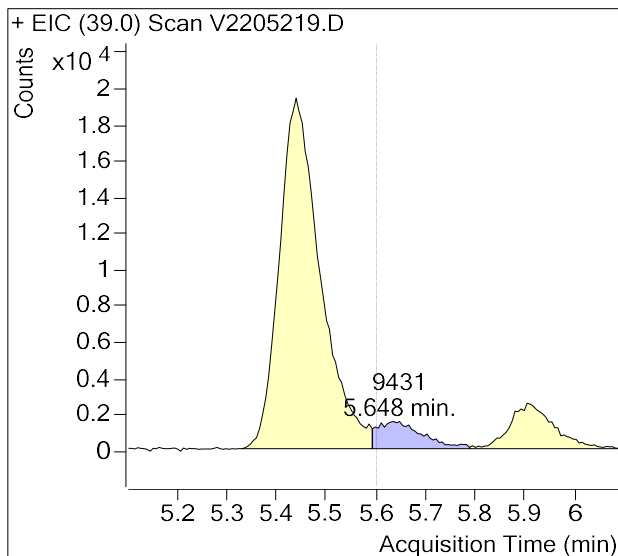
Sample Name : USSCL-PT03-S-20230228
Sample Info : B30629; Recollect
Data File : V2205219.D
Acquisition Date : 2023-03-30 18:08:06
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	9,431	
Benzene-d6 (IS)	15.84	770,178	
Benzene	15.90	2,583,649	
Toluene-d8 (IS)	18.42	733,709	
Toluene	18.51	1,538,101	
Ethylbenzene	20.57	17,845	
m-/p-Xylenes	20.75	44,548	
o-Xylene	21.21	19,561	

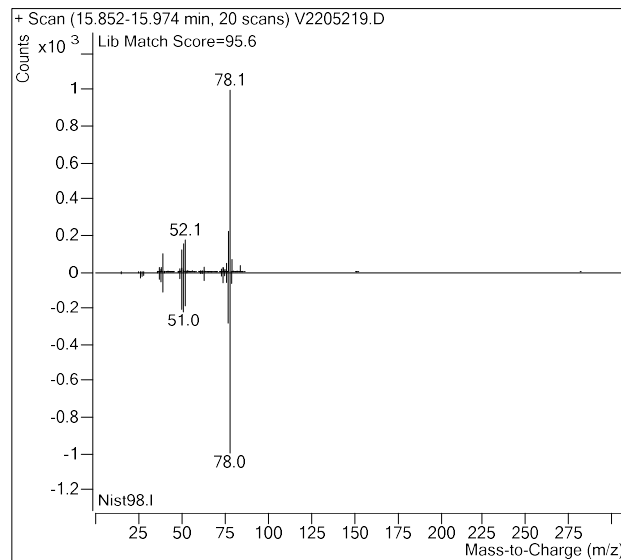
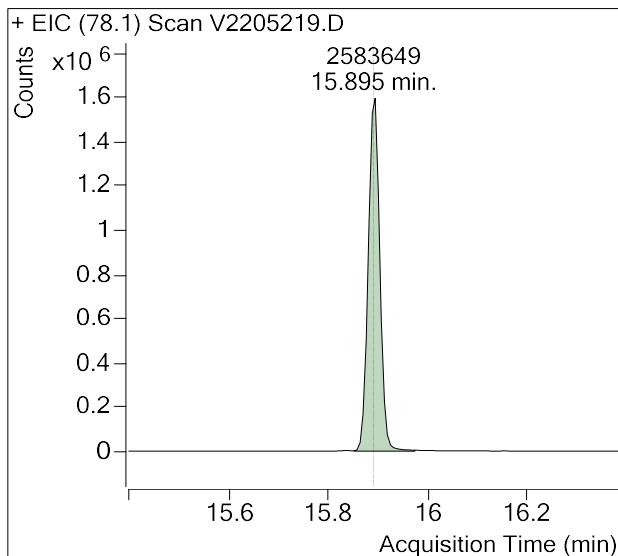
(m)=Manual Integration

1,3-Butadiene

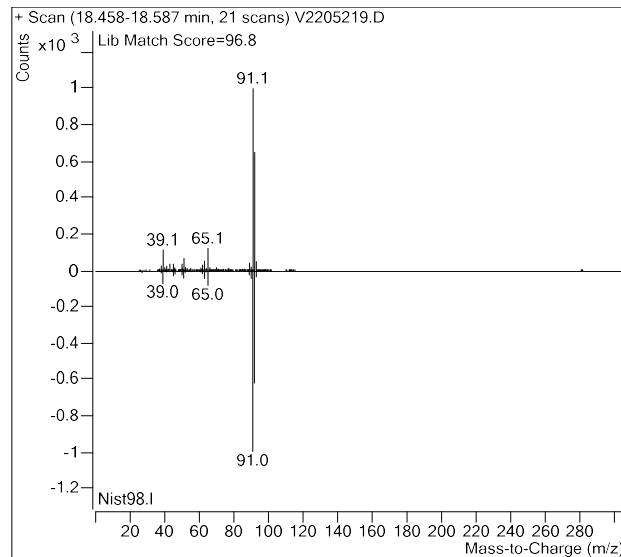
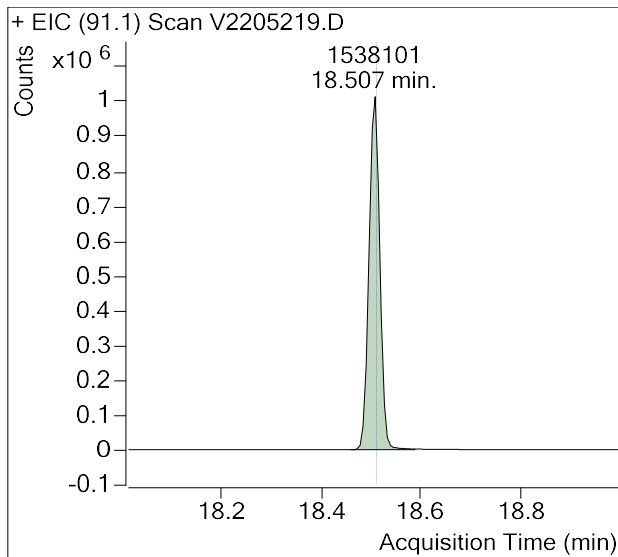


Sample Name : USSCL-PT03-S-20230228
Sample Info : B30629; Recollect
Data File : V2205219.D
Acquisition Date : 2023-03-30 18:08:06
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

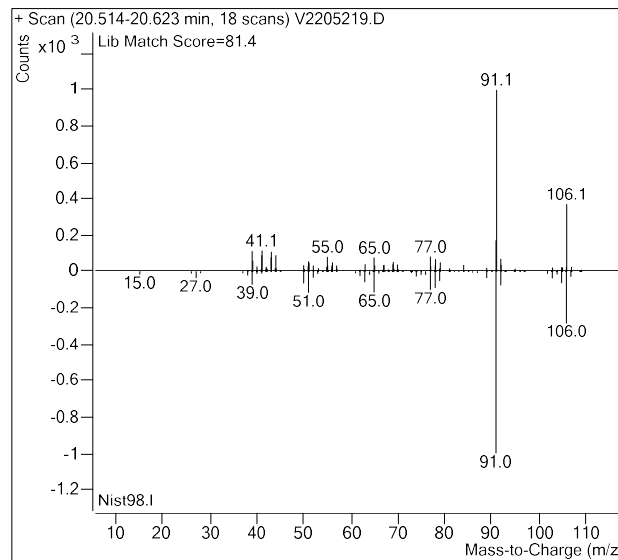
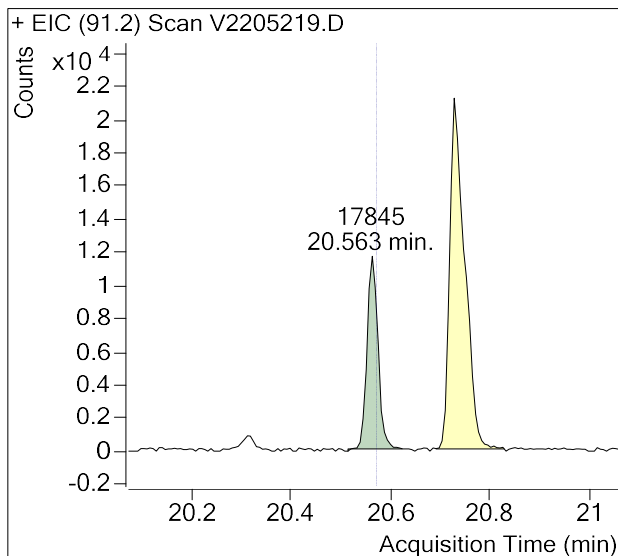


Toluene

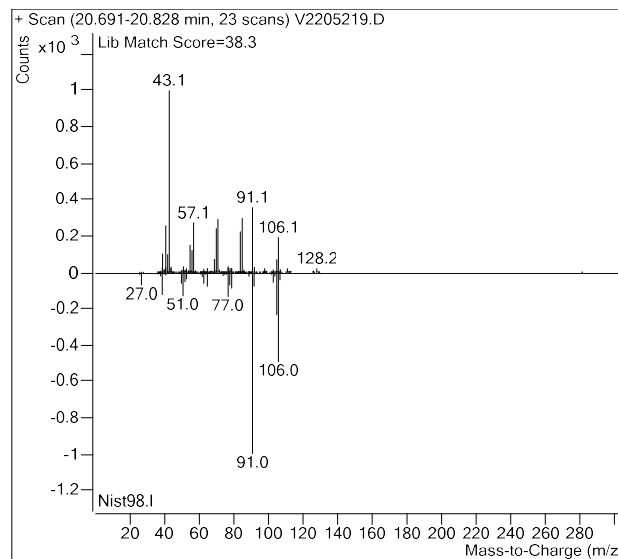
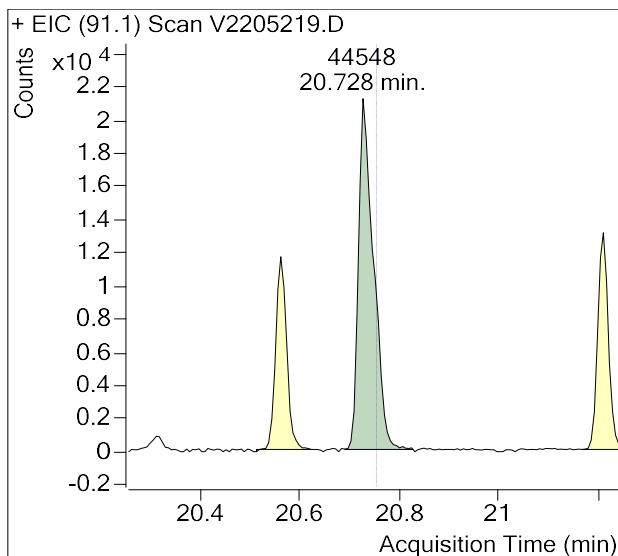


Sample Name : USSCL-PT03-S-20230228
Sample Info : B30629; Recollect
Data File : V2205219.D
Acquisition Date : 2023-03-30 18:08:06
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

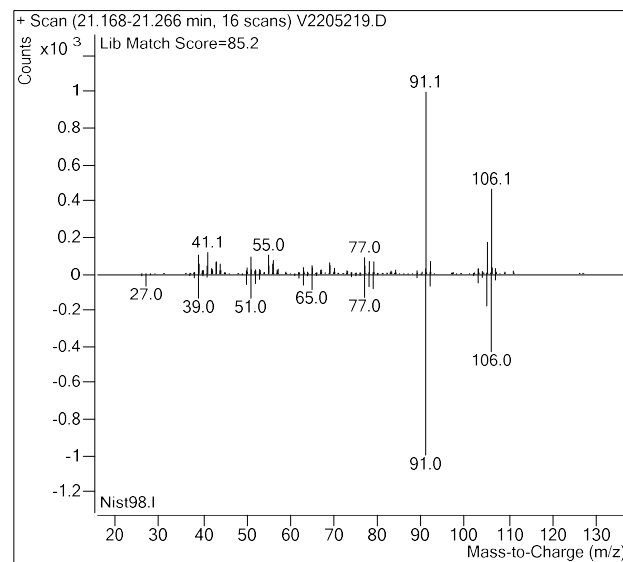
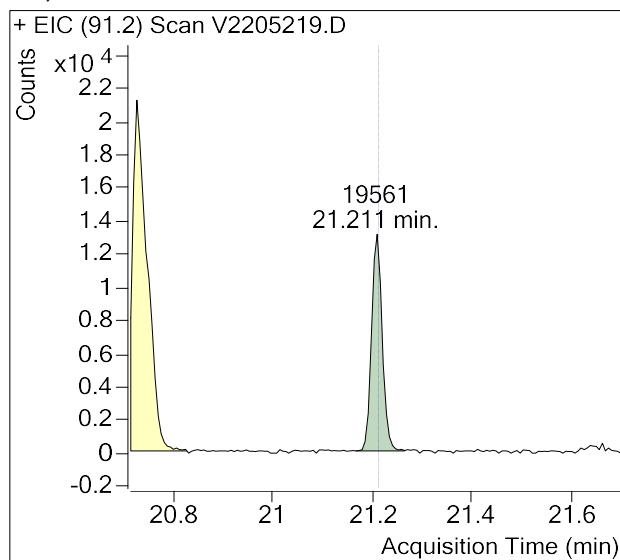


m-/p-Xylenes

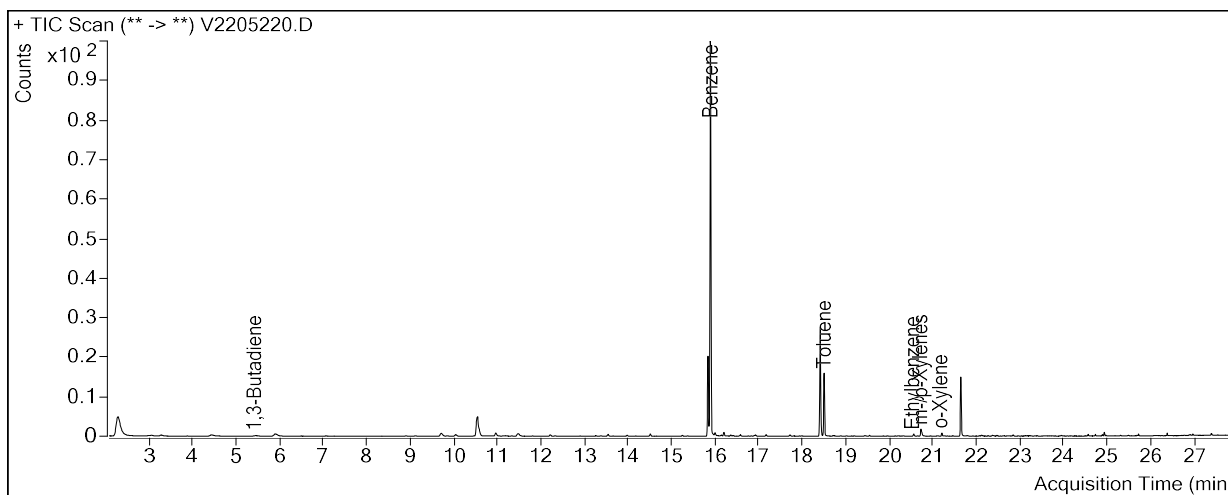


Sample Name : USSCL-PT03-S-20230228
Sample Info : B30629; Recollect
Data File : V2205219.D
Acquisition Date : 2023-03-30 18:08:06
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



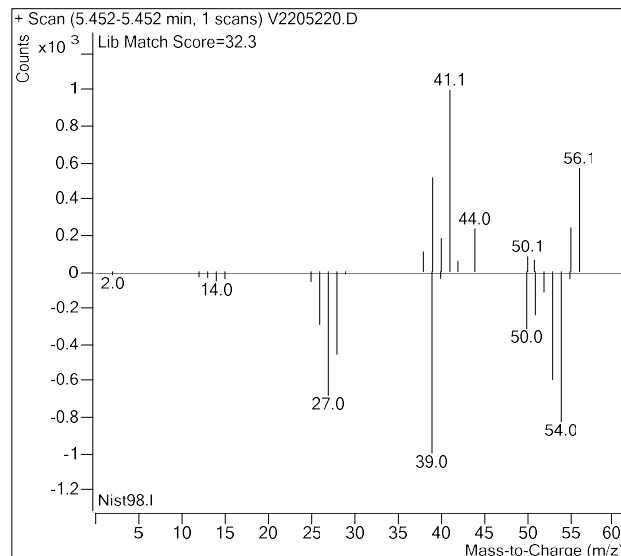
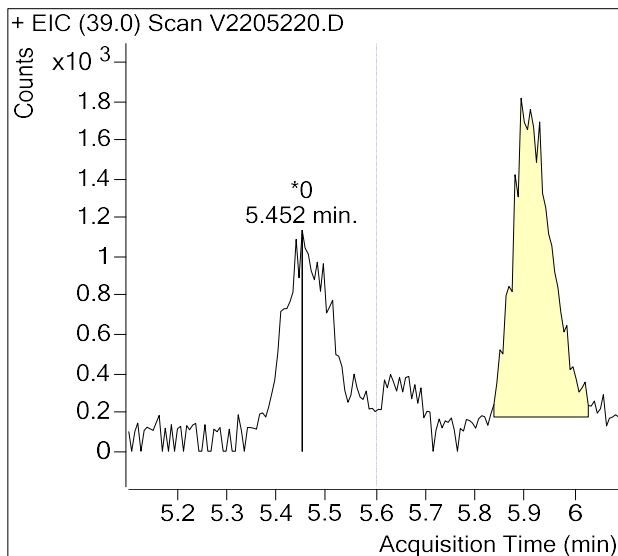
Sample Name : USSCL-PT04-S-20230228
Sample Info : B43391; Recollect
Data File : V2205220.D
Acquisition Date : 2023-03-30 18:49:40
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	765,026	
Benzene	15.90	3,694,310	
Toluene-d8 (IS)	18.42	741,581	
Toluene	18.51	463,417	
Ethylbenzene	20.57	17,982	
m-/p-Xylenes	20.75	62,798	
o-Xylene	21.21	20,185	

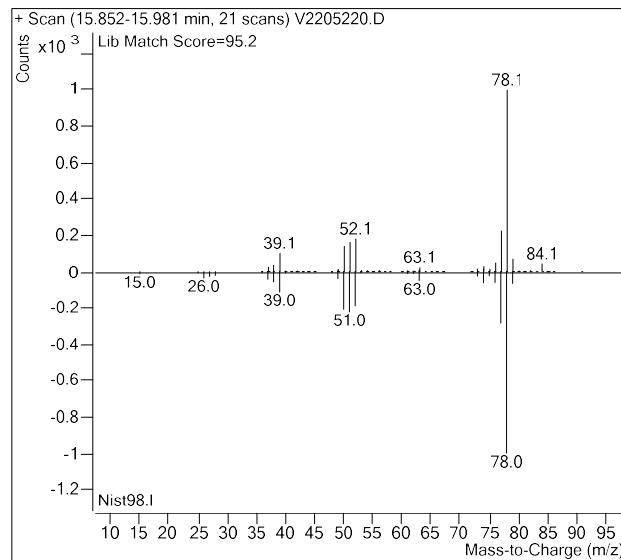
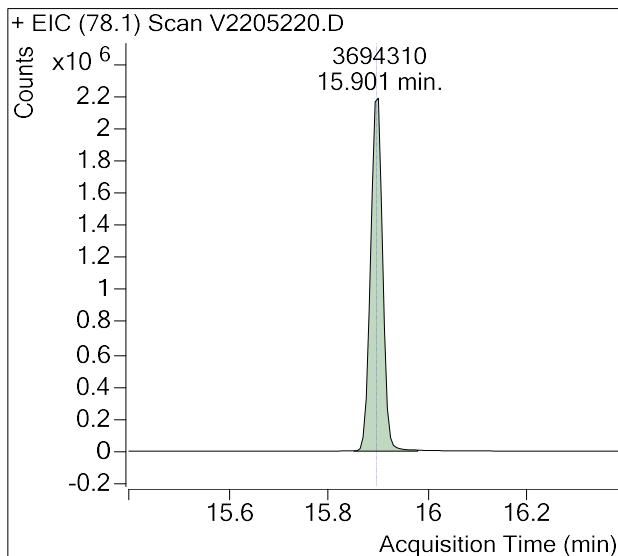
(m)=Manual Integration

1,3-Butadiene

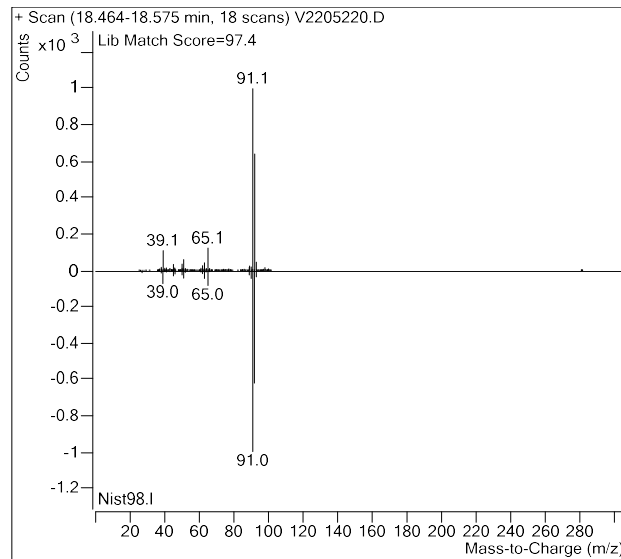
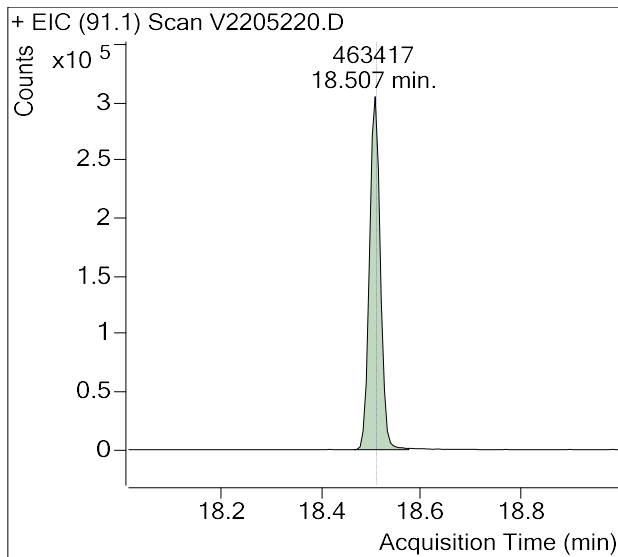


Sample Name : USSCL-PT04-S-20230228
Sample Info : B43391; Recollect
Data File : V2205220.D
Acquisition Date : 2023-03-30 18:49:40
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

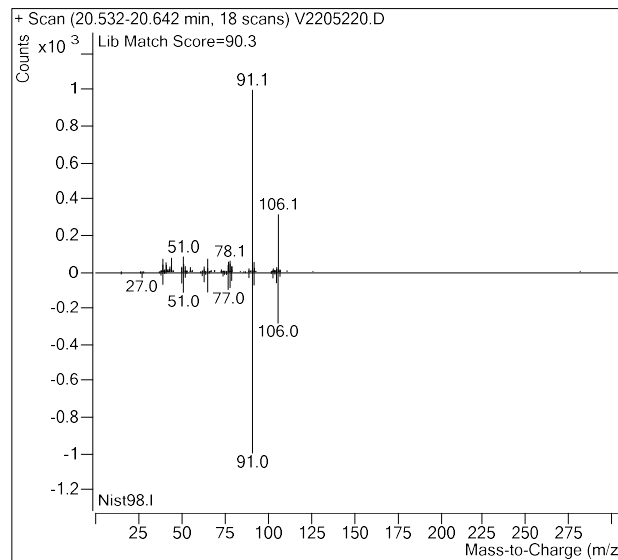
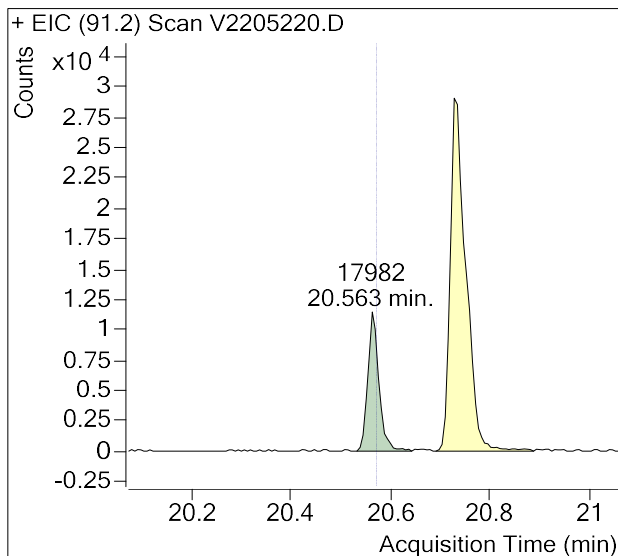


Toluene

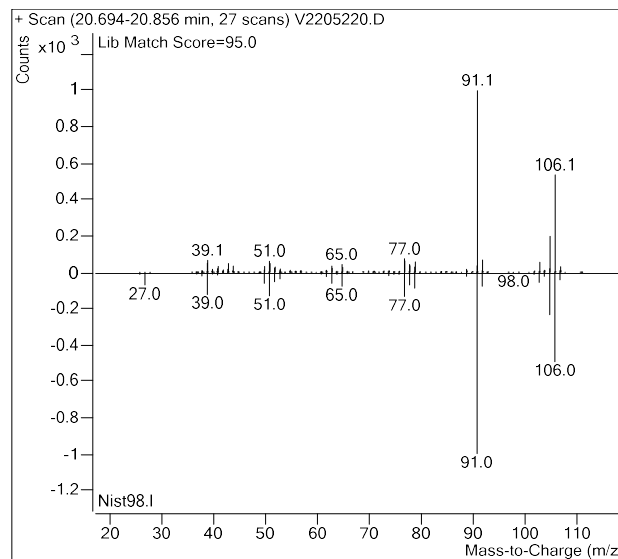
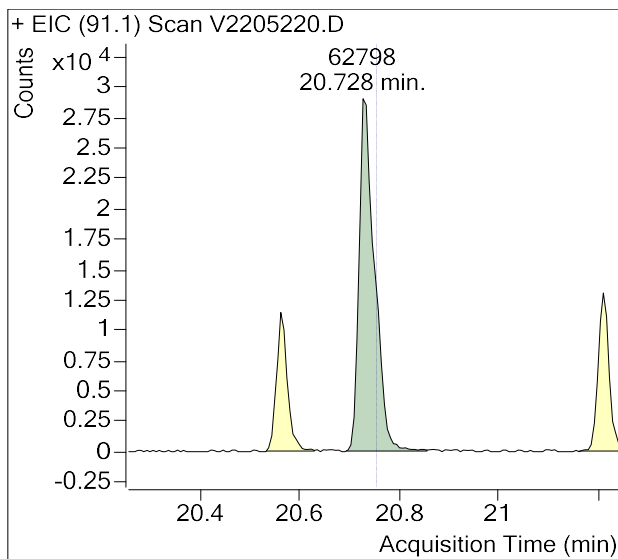


Sample Name : USSCL-PT04-S-20230228
Sample Info : B43391; Recollect
Data File : V2205220.D
Acquisition Date : 2023-03-30 18:49:40
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

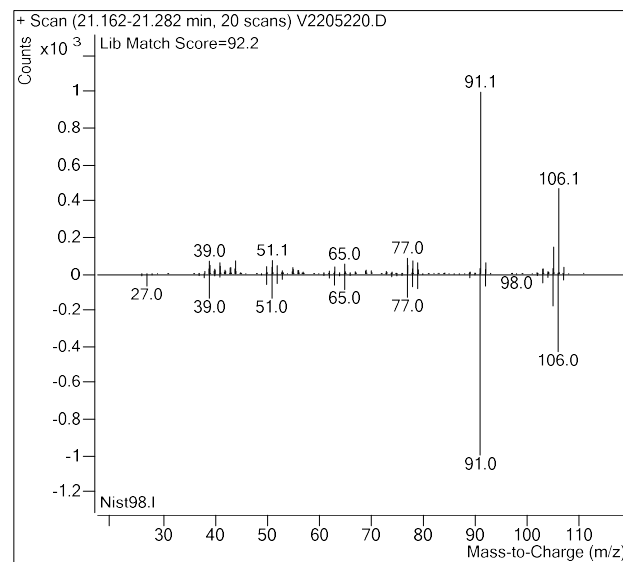
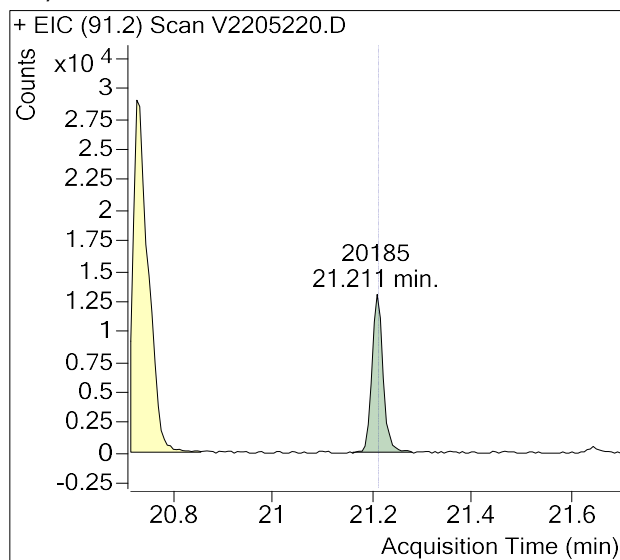


m-/p-Xylenes

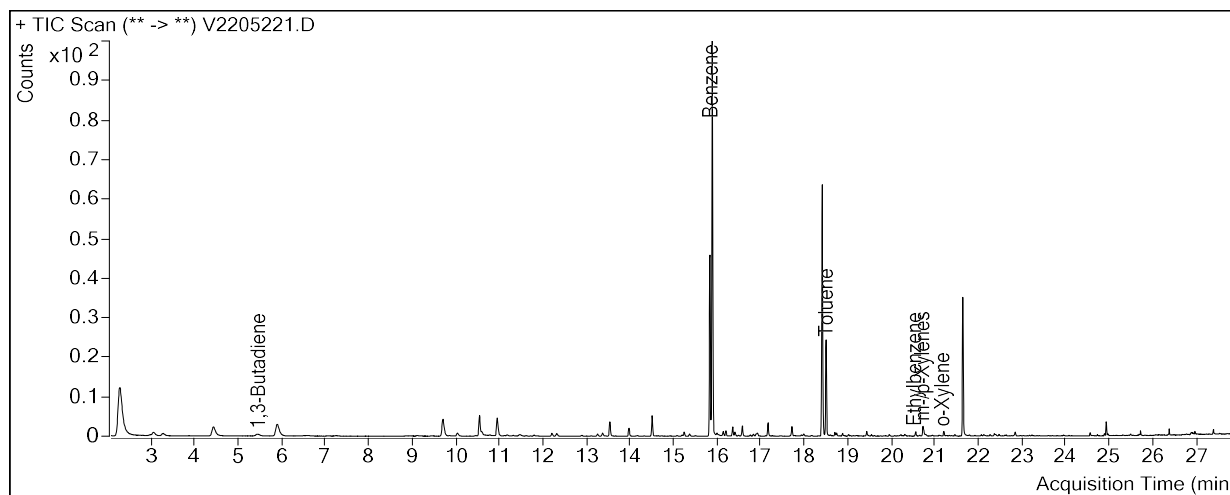


Sample Name : USSCL-PT04-S-20230228
Sample Info : B43391; Recollect
Data File : V2205220.D
Acquisition Date : 2023-03-30 18:49:40
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



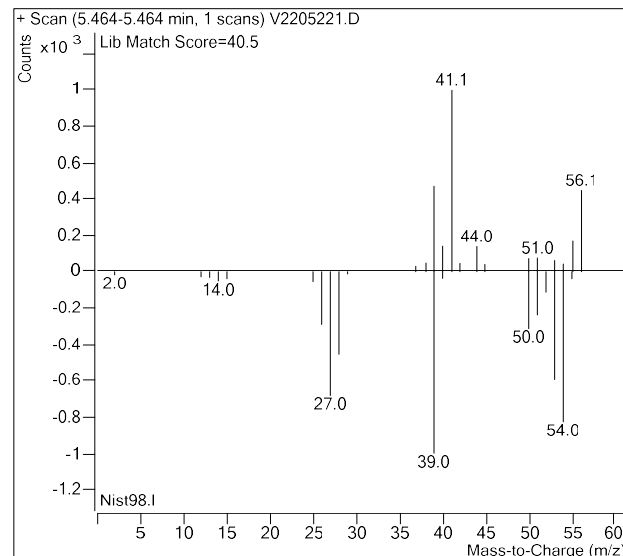
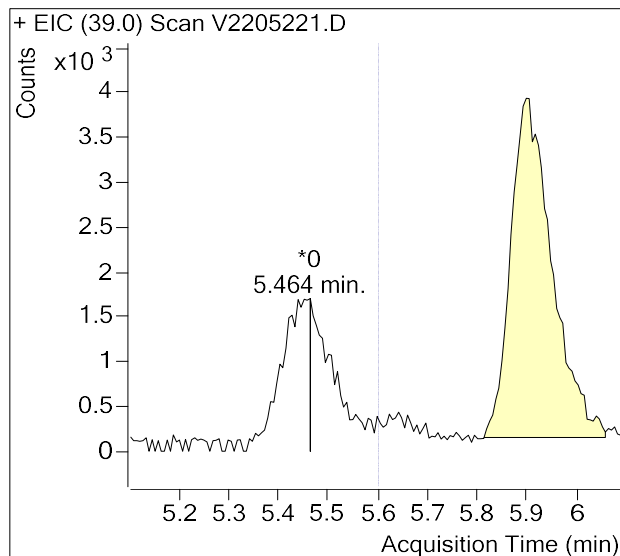
Sample Name : USSCL-PT05-S-20230228
Sample Info : B34510; Recollect
Data File : V2205221.D
Acquisition Date : 2023-03-30 19:30:47
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	756,755	
Benzene	15.90	1,552,247	
Toluene-d8 (IS)	18.42	741,317	
Toluene	18.51	306,004	
Ethylbenzene	20.57	16,051	
m-/p-Xylenes	20.75	38,770	
o-Xylene	21.21	13,353	

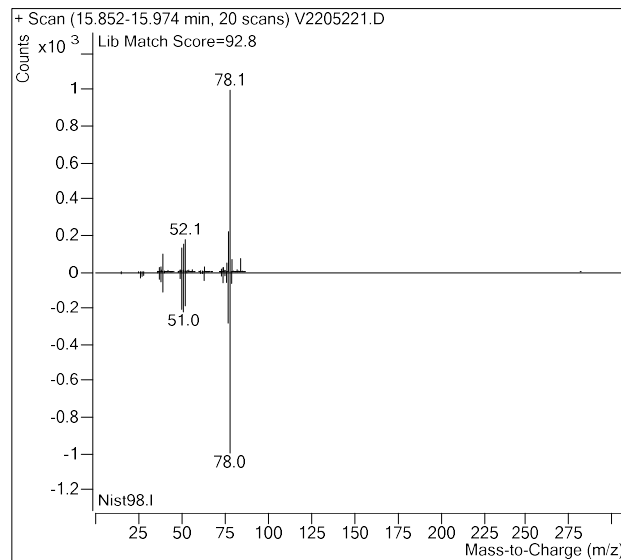
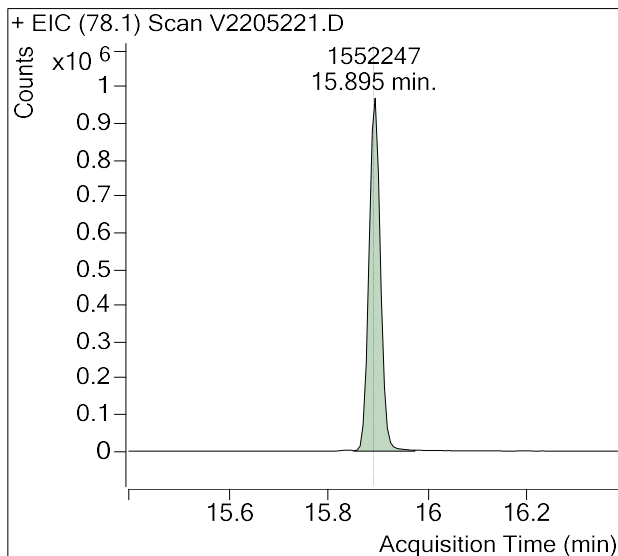
(m)=Manual Integration

1,3-Butadiene

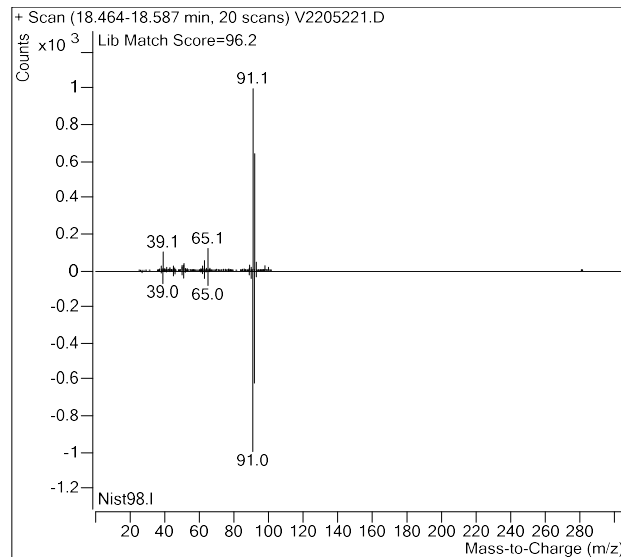
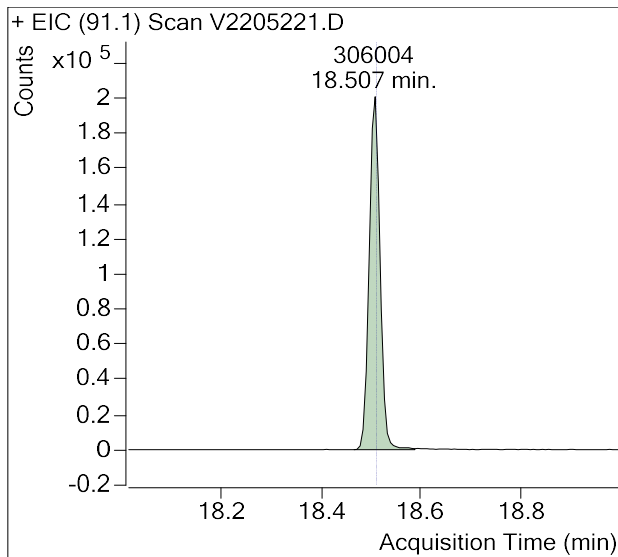


Sample Name : USSCL-PT05-S-20230228
Sample Info : B34510; Recollect
Data File : V2205221.D
Acquisition Date : 2023-03-30 19:30:47
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

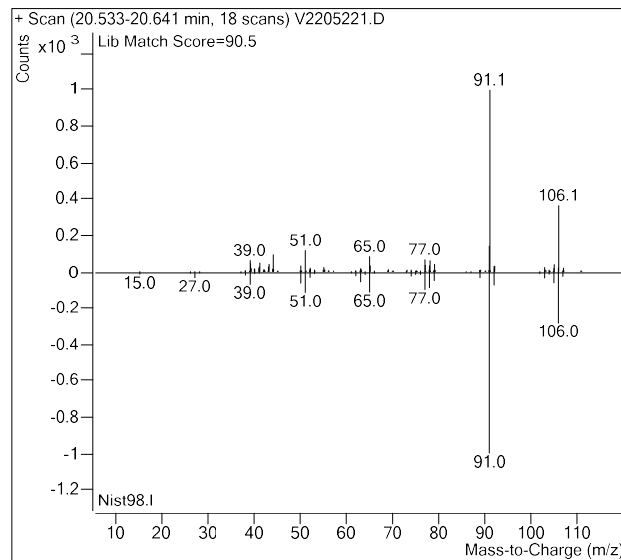
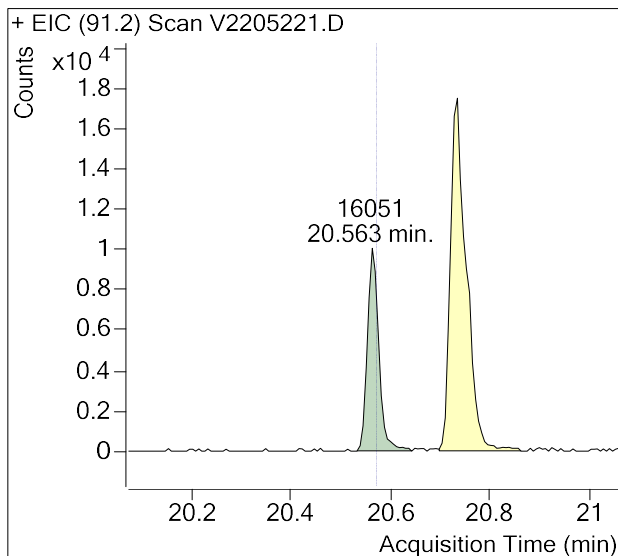


Toluene

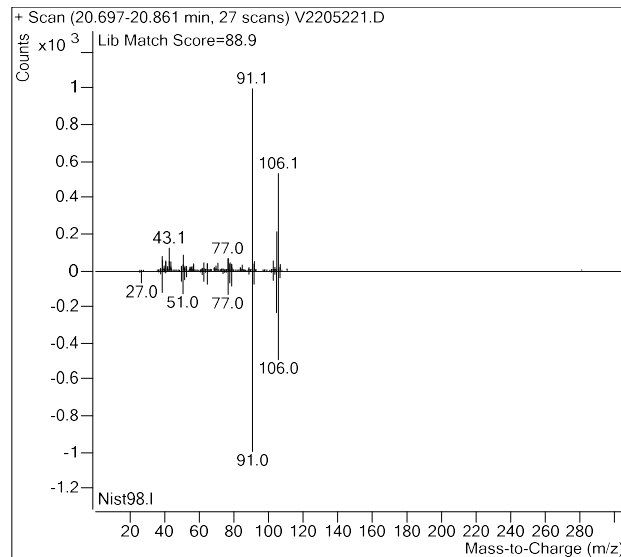
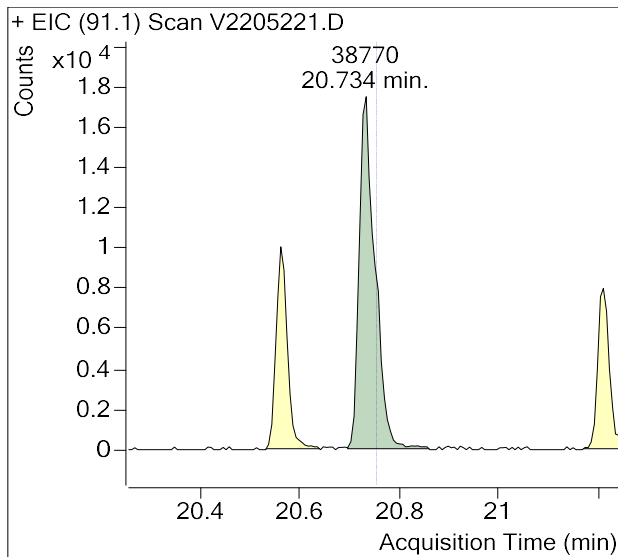


Sample Name : USSCL-PT05-S-20230228
Sample Info : B34510; Recollect
Data File : V2205221.D
Acquisition Date : 2023-03-30 19:30:47
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

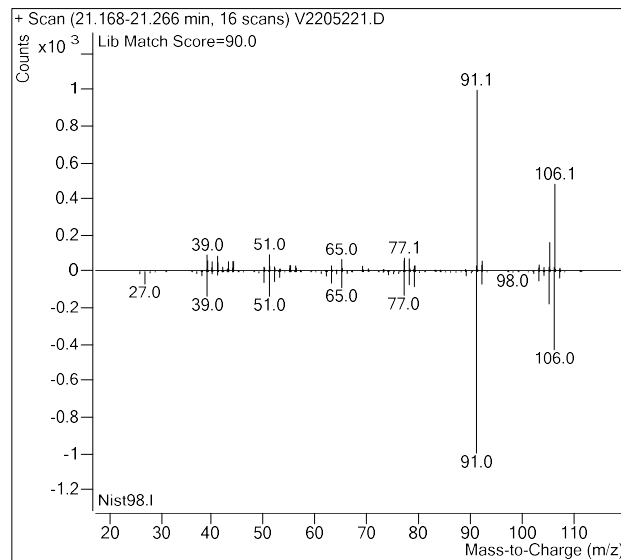
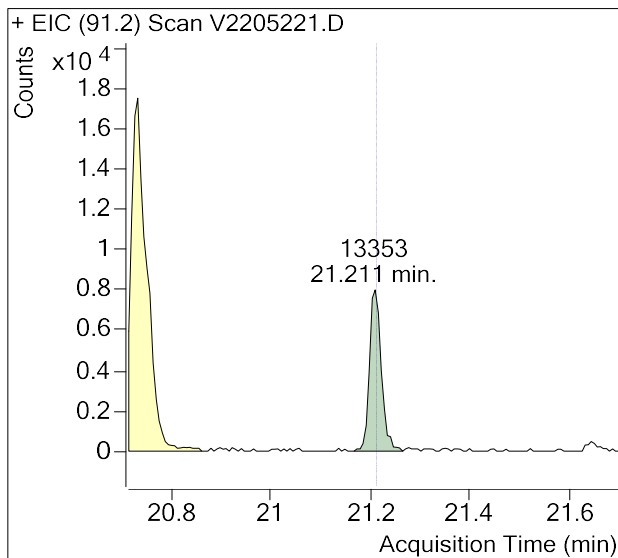


m-/p-Xylenes

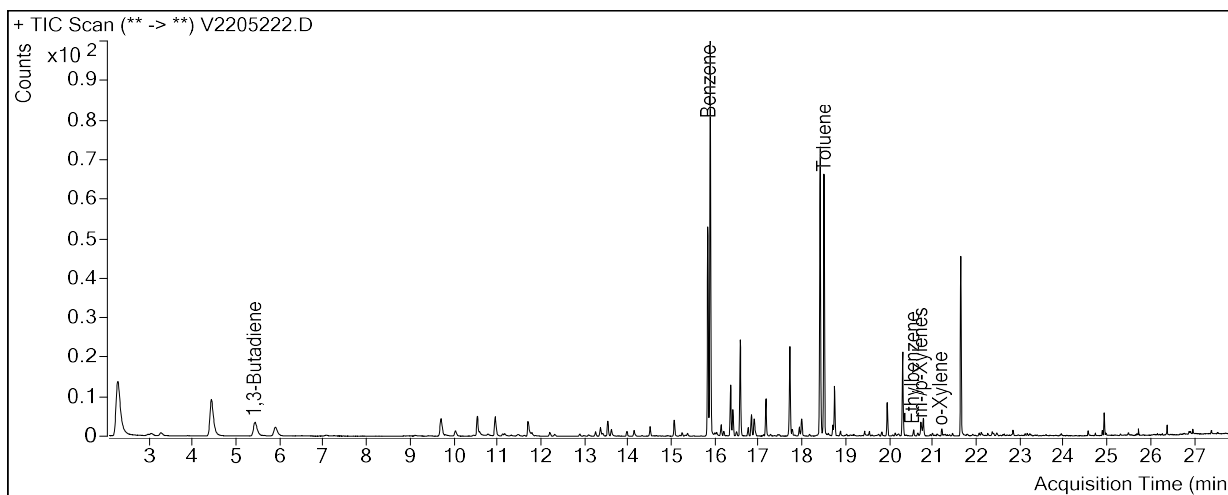


Sample Name : USSCL-PT05-S-20230228
Sample Info : B34510; Recollect
Data File : V2205221.D
Acquisition Date : 2023-03-30 19:30:47
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



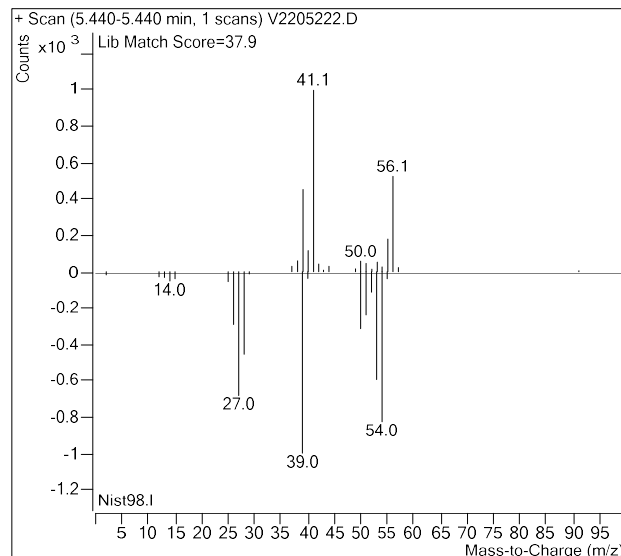
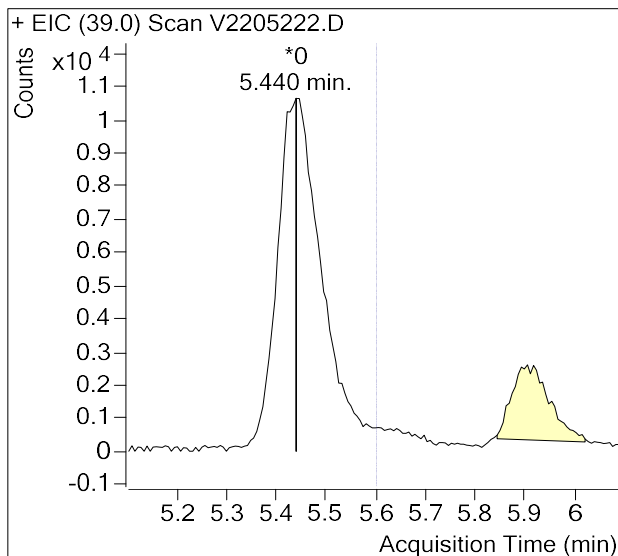
Sample Name : USSCL-PT06-S-20230228
Sample Info : C01689; Recollect
Data File : V2205222.D
Acquisition Date : 2023-03-30 20:11:44
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	767,084	
Benzene	15.90	1,381,429	
Toluene-d8 (IS)	18.42	739,069	
Toluene	18.51	744,594	
Ethylbenzene	20.57	17,211	
m-/p-Xylenes	20.75	45,765	
o-Xylene	21.21	17,169	

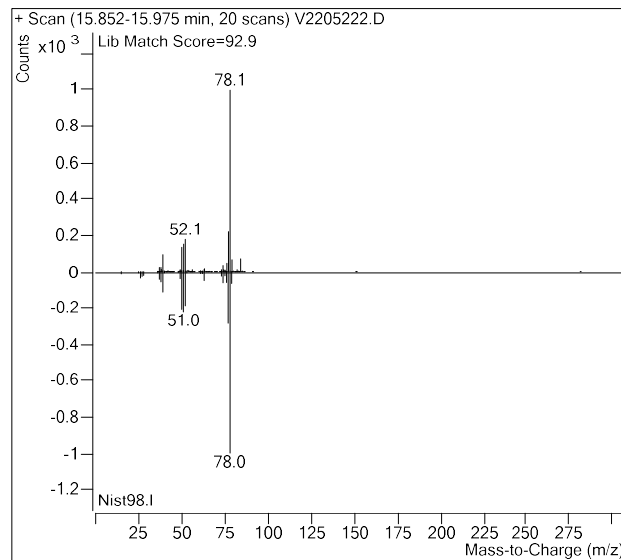
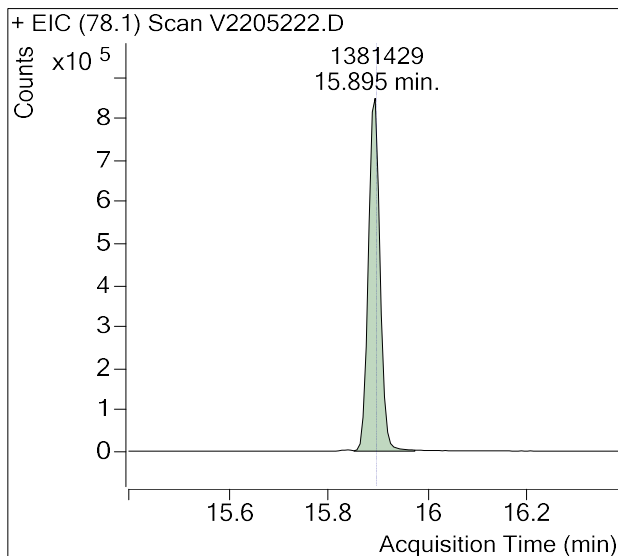
(m)=Manual Integration

1,3-Butadiene

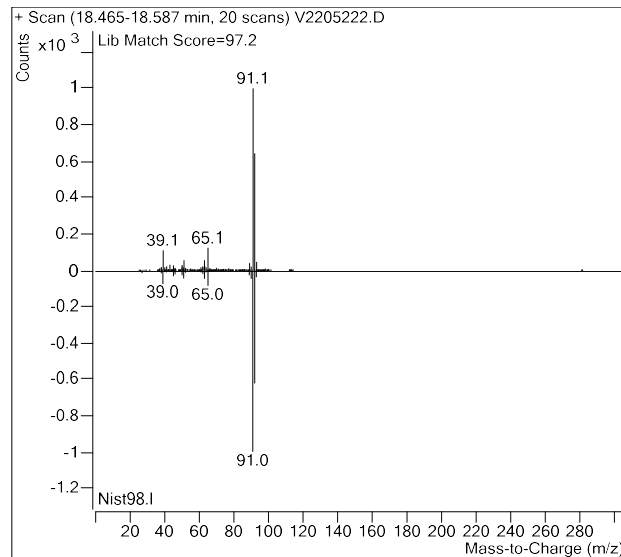
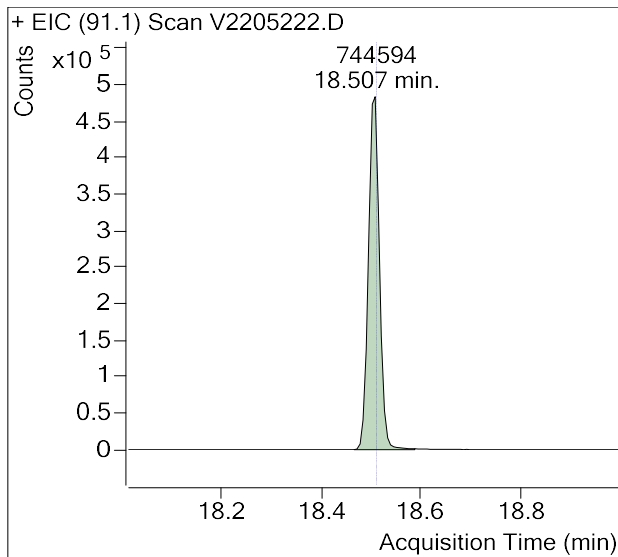


Sample Name : USSCL-PT06-S-20230228
Sample Info : C01689; Recollect
Data File : V2205222.D
Acquisition Date : 2023-03-30 20:11:44
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

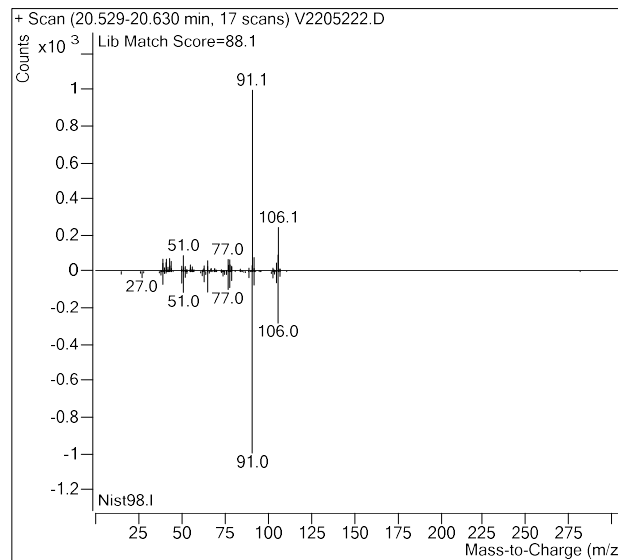
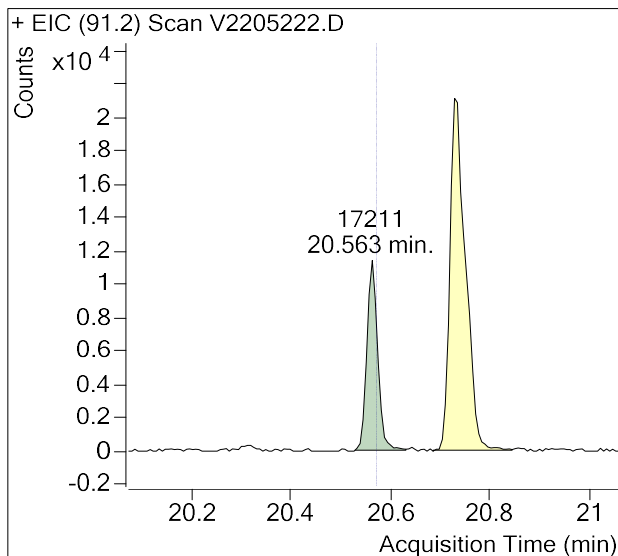


Toluene

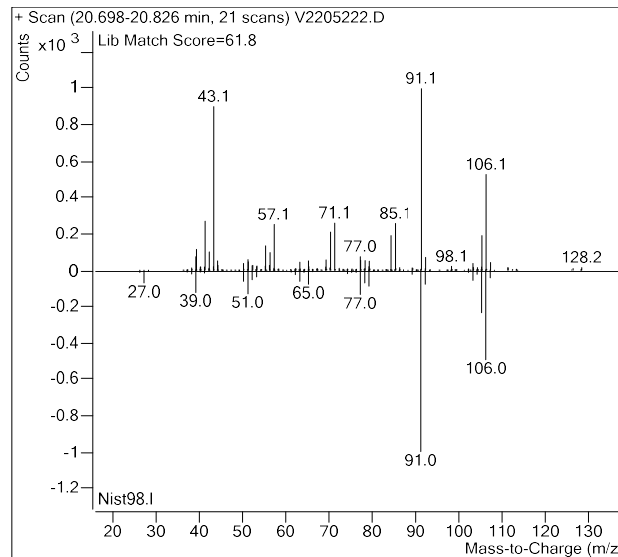
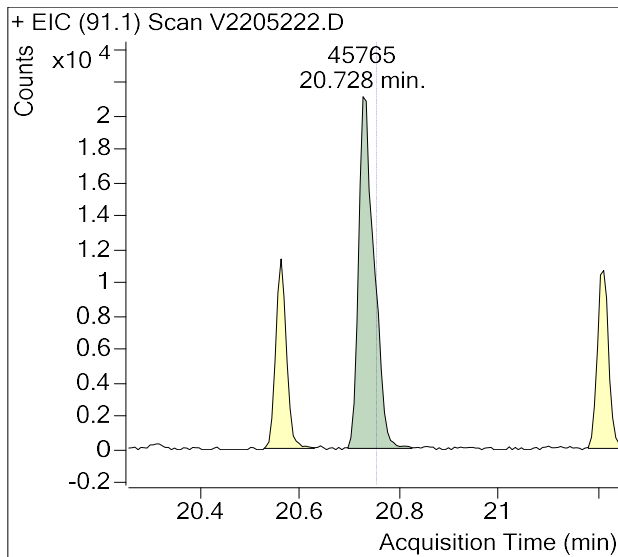


Sample Name : USSCL-PT06-S-20230228
Sample Info : C01689; Recollect
Data File : V2205222.D
Acquisition Date : 2023-03-30 20:11:44
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

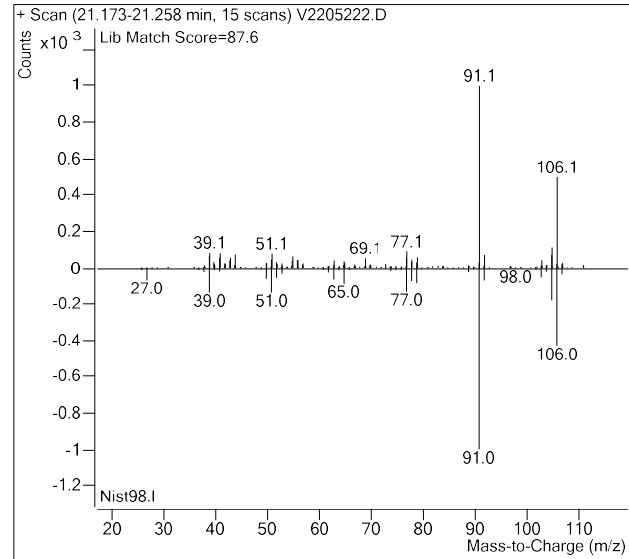
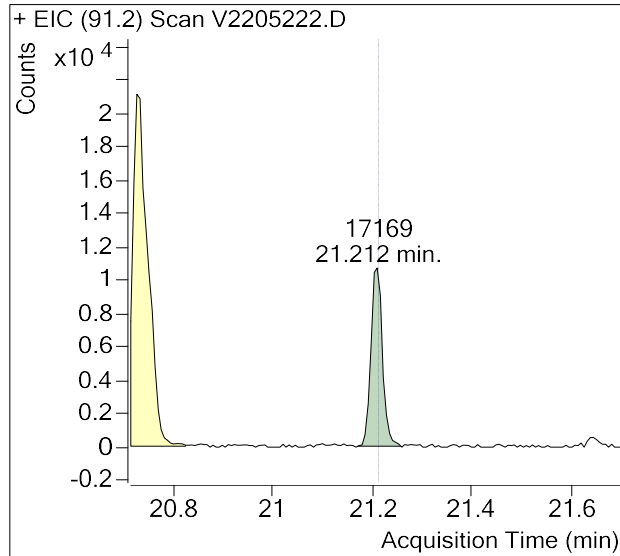


m-/p-Xylenes

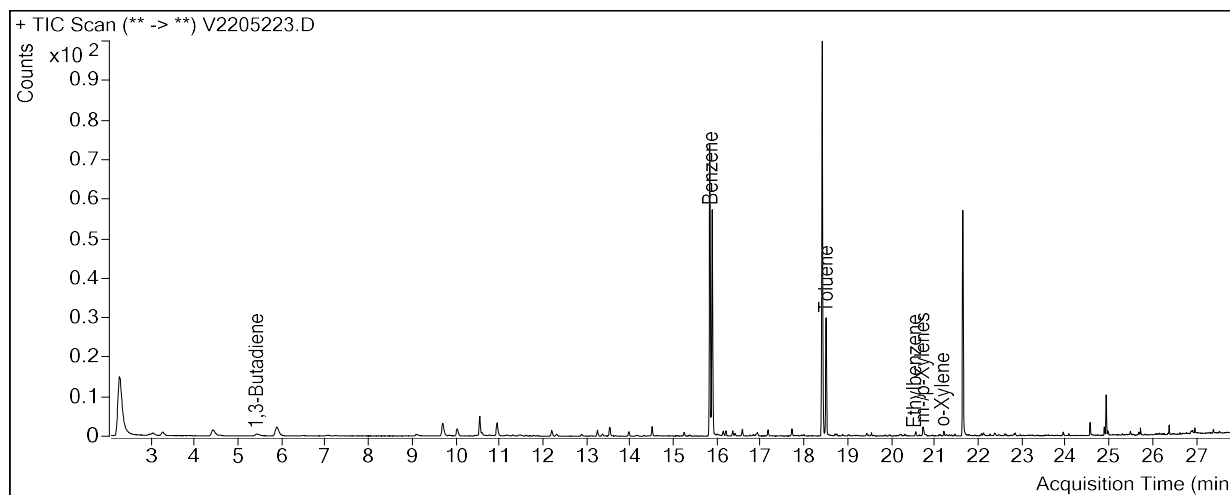


Sample Name : USSCL-PT06-S-20230228
Sample Info : C01689; Recollect
Data File : V2205222.D
Acquisition Date : 2023-03-30 20:11:44
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



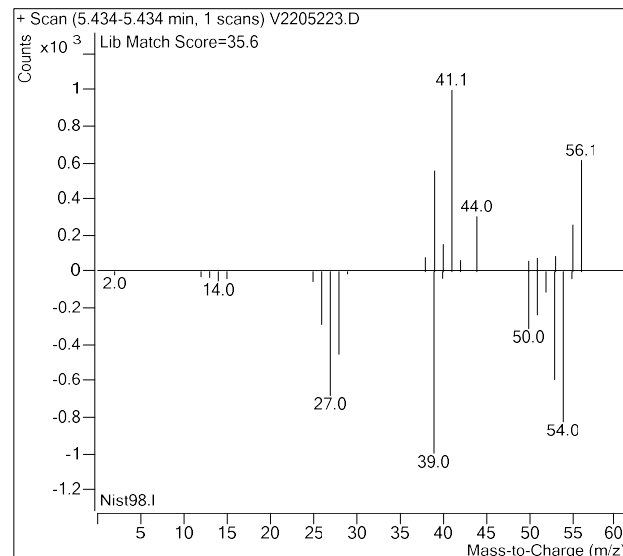
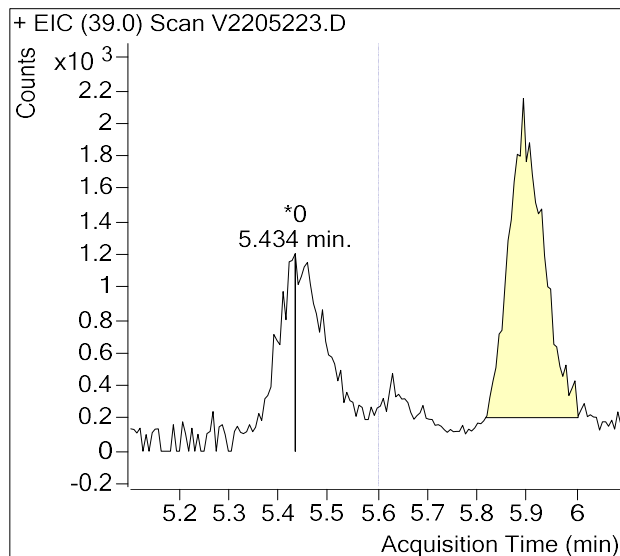
Sample Name : USSCL-PT07-S-20230228
Sample Info : B44275; Recollect
Data File : V2205223.D
Acquisition Date : 2023-03-30 20:53:01
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	763,675	
Benzene	15.90	575,122	
Toluene-d8 (IS)	18.42	740,579	
Toluene	18.51	239,629	
Ethylbenzene	20.57	9,275	
m-/p-Xylenes	20.75	22,894	
o-Xylene	21.21	8,741	

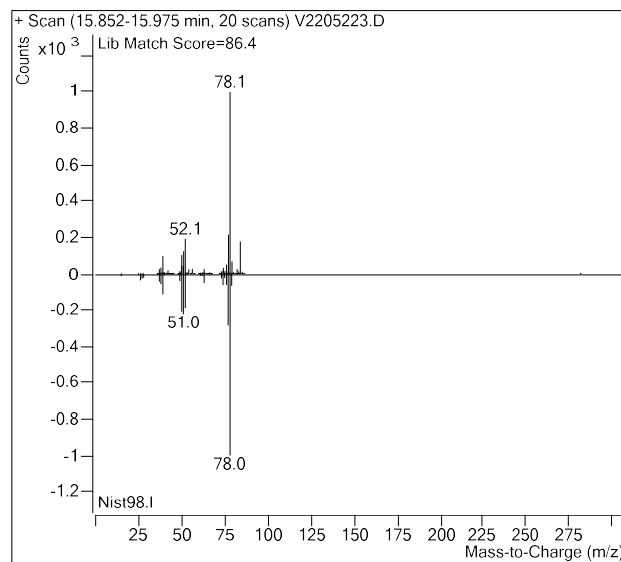
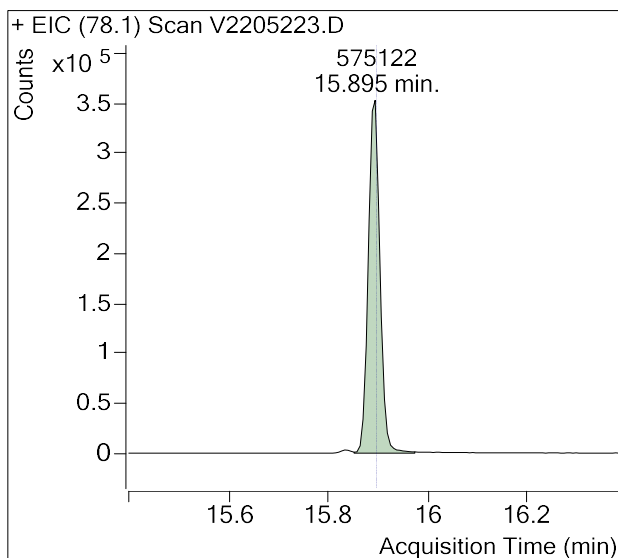
(m)=Manual Integration

1,3-Butadiene

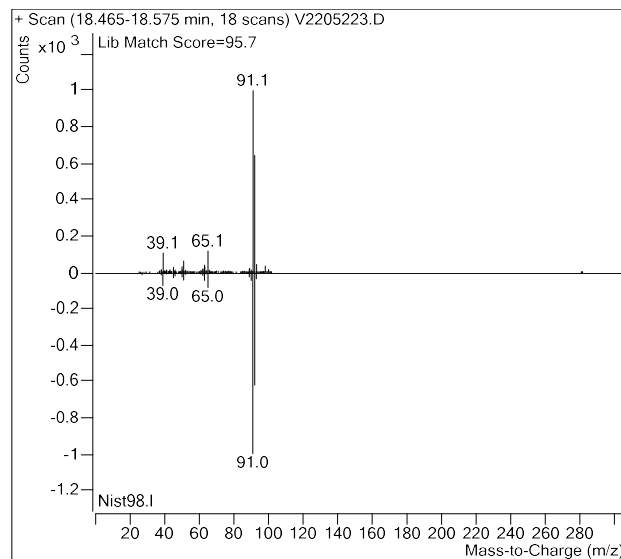
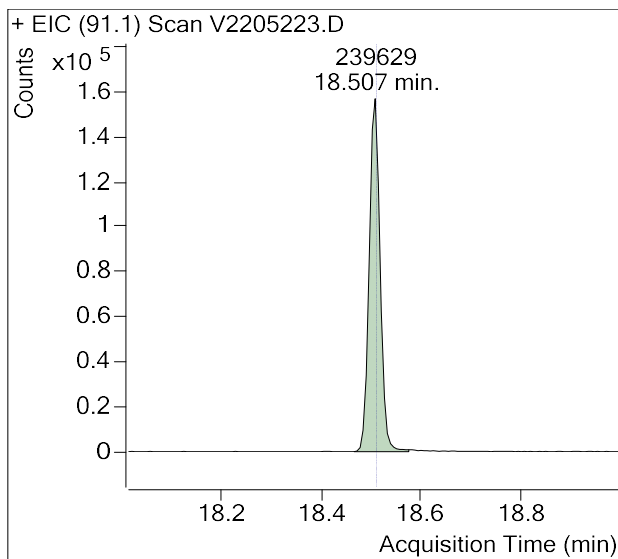


Sample Name : USSCL-PT07-S-20230228
Sample Info : B44275; Recollect
Data File : V2205223.D
Acquisition Date : 2023-03-30 20:53:01
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

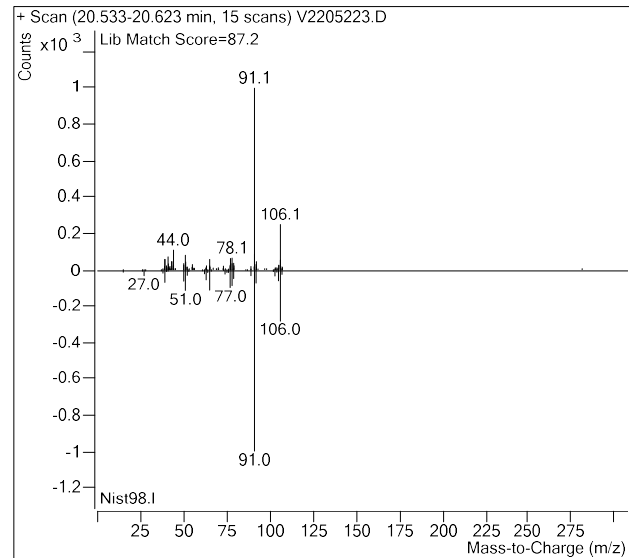
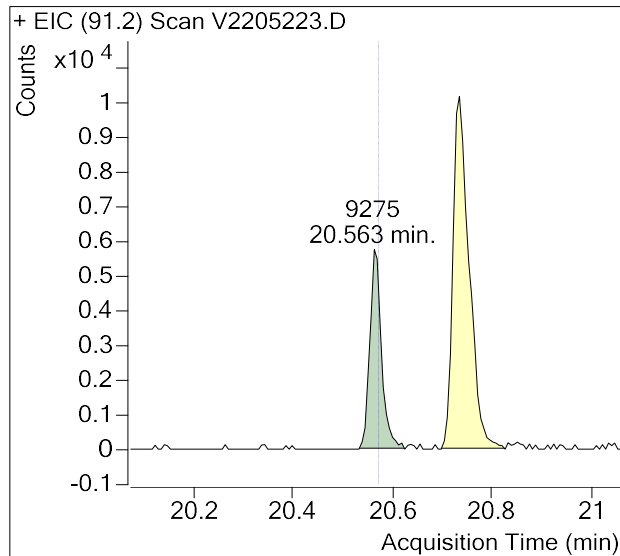


Toluene

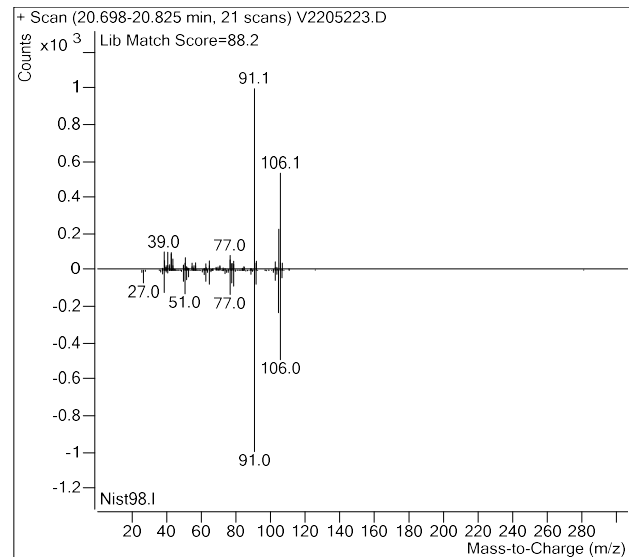
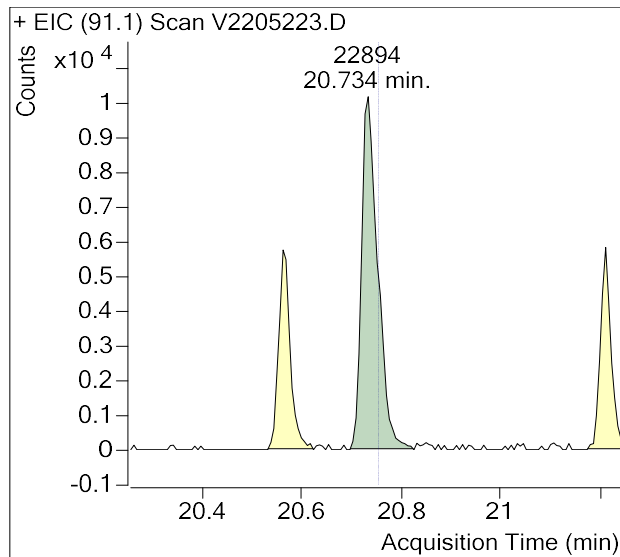


Sample Name : USSCL-PT07-S-20230228
Sample Info : B44275; Recollect
Data File : V2205223.D
Acquisition Date : 2023-03-30 20:53:01
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

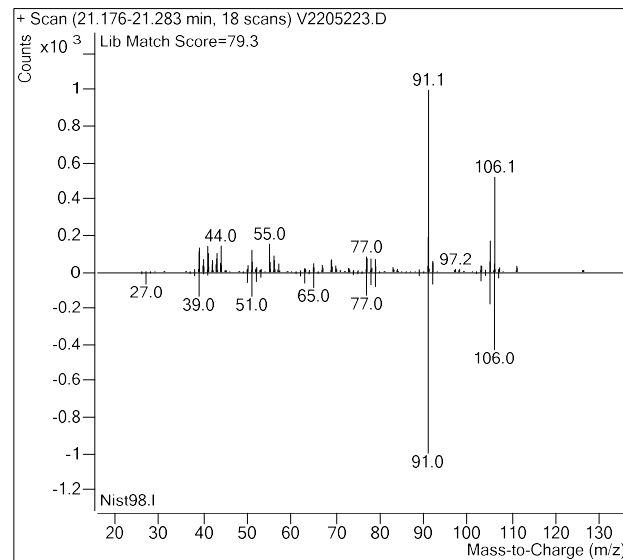
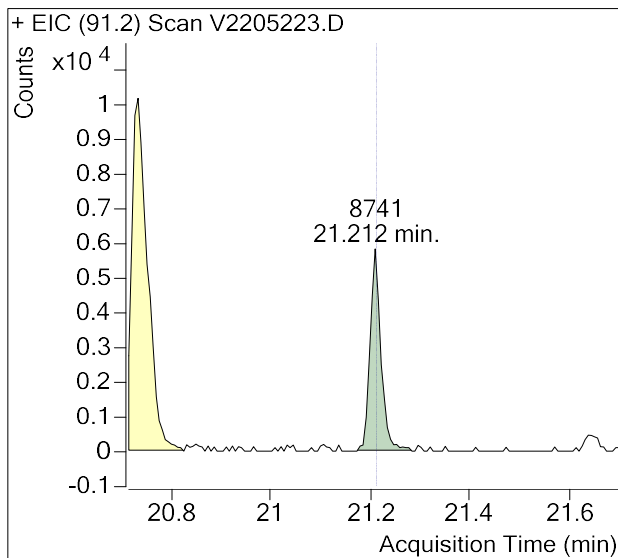


m-/p-Xylenes

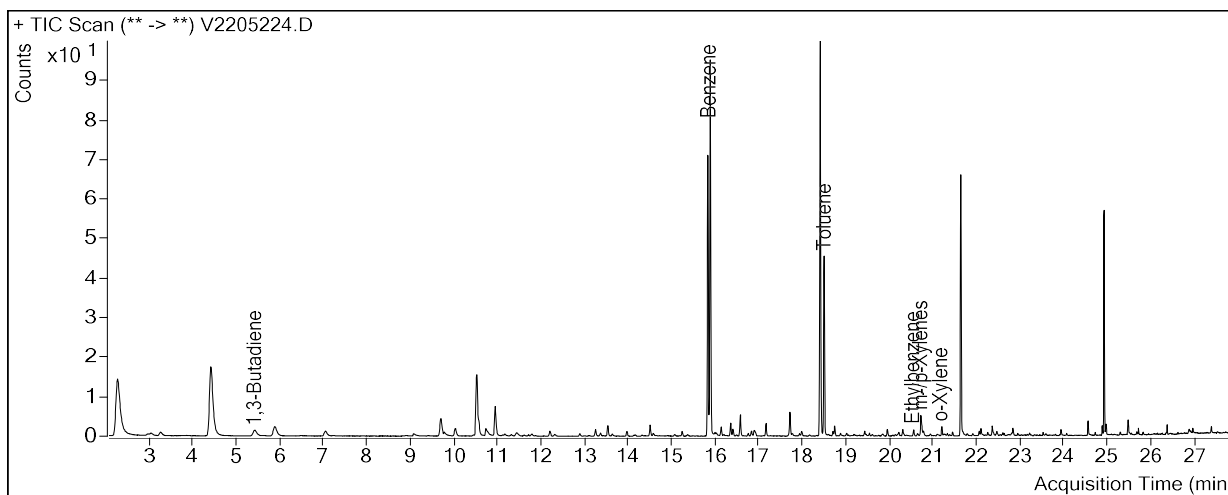


Sample Name : USSCL-PT07-S-20230228
Sample Info : B44275; Recollect
Data File : V2205223.D
Acquisition Date : 2023-03-30 20:53:01
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



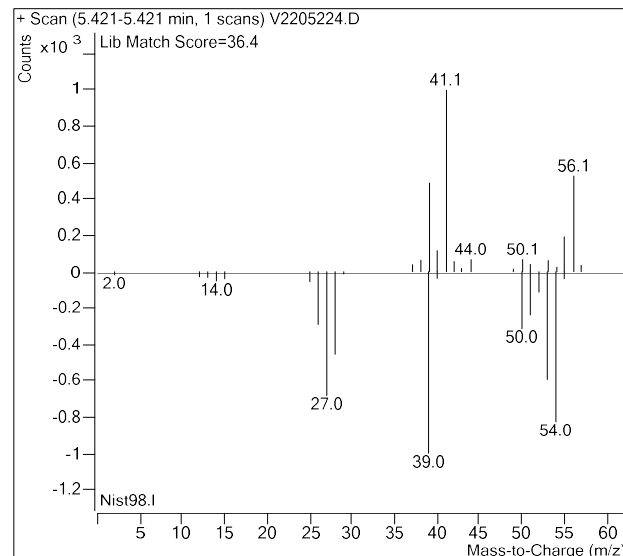
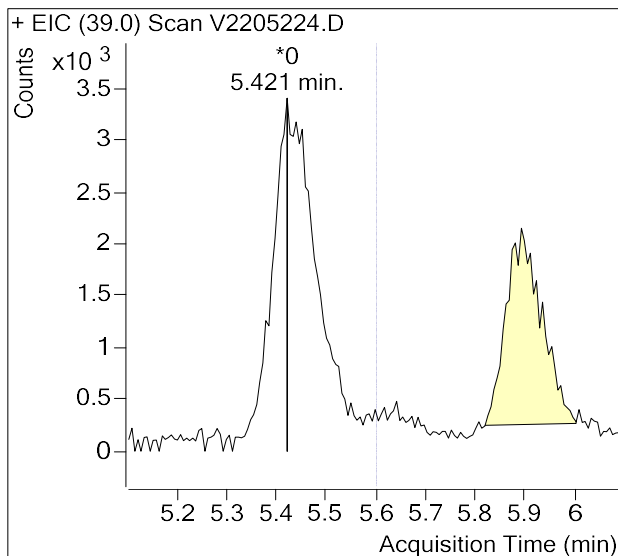
Sample Name : USSCL-PT08-S-20230228
Sample Info : B12145; Recollect
Data File : V2205224.D
Acquisition Date : 2023-03-30 21:34:08
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	750,857	
Benzene	15.90	935,130	
Toluene-d8 (IS)	18.42	731,375	
Toluene	18.51	356,971	
Ethylbenzene	20.57	13,096	
m-/p-Xylenes	20.75	48,052	
o-Xylene	21.21	15,850	

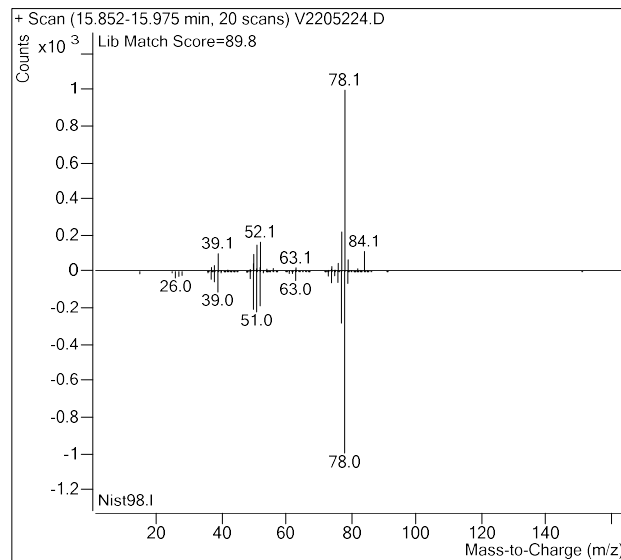
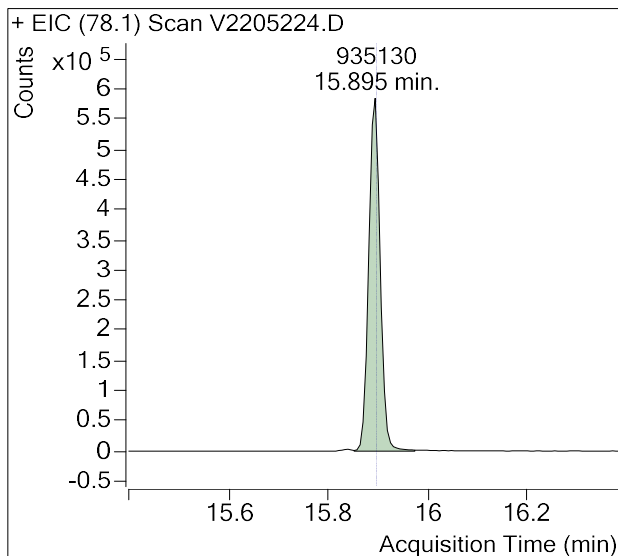
(m)=Manual Integration

1,3-Butadiene

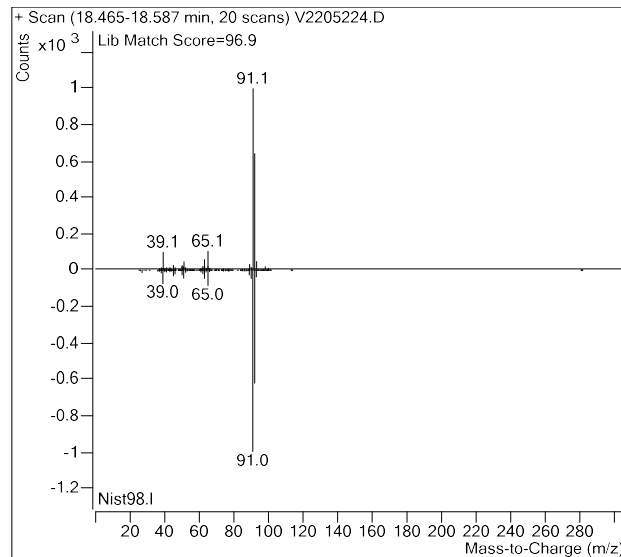
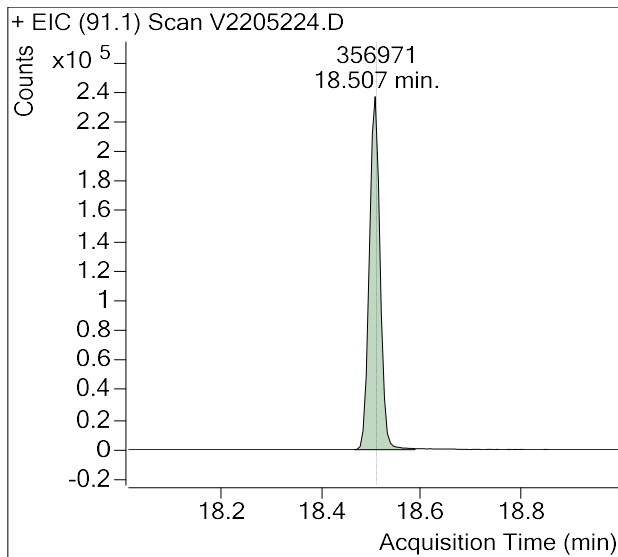


Sample Name : USSCL-PT08-S-20230228
Sample Info : B12145; Recollect
Data File : V2205224.D
Acquisition Date : 2023-03-30 21:34:08
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene



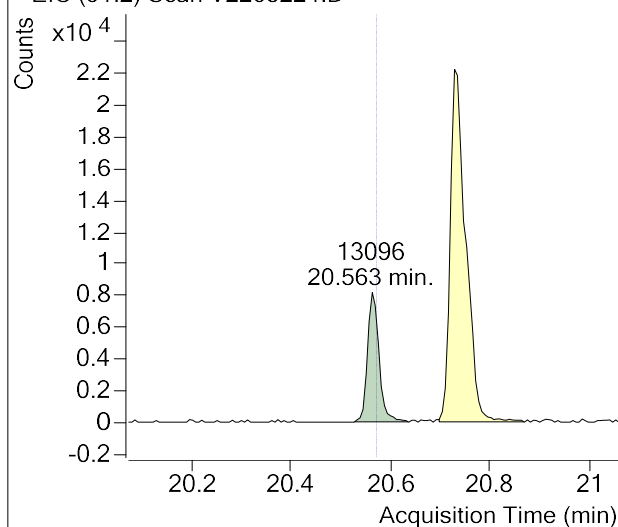
Toluene



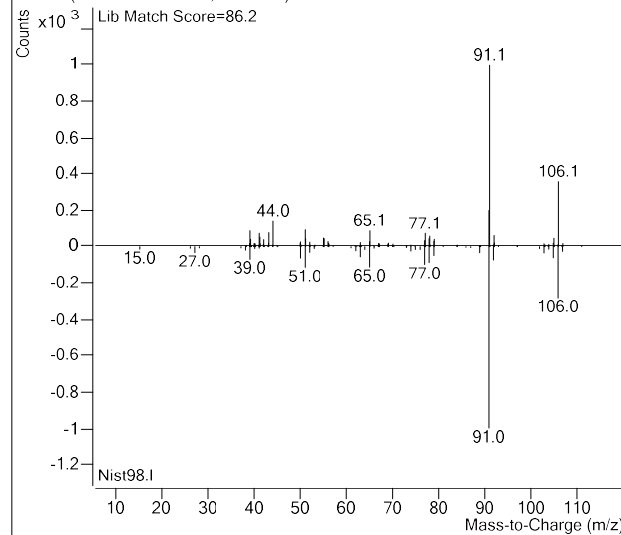
Sample Name : USSCL-PT08-S-20230228
Sample Info : B12145; Recollect
Data File : V2205224.D
Acquisition Date : 2023-03-30 21:34:08
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

+ EIC (91.2) Scan V2205224.D

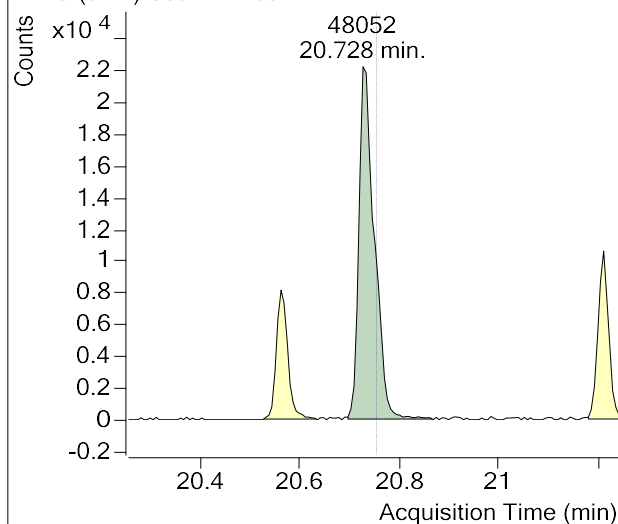


+ Scan (20.528-20.635 min, 18 scans) V2205224.D

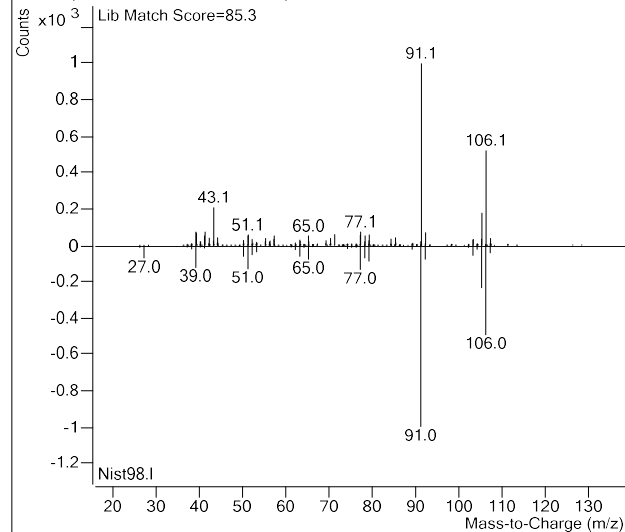


m-/p-Xylenes

+ EIC (91.1) Scan V2205224.D

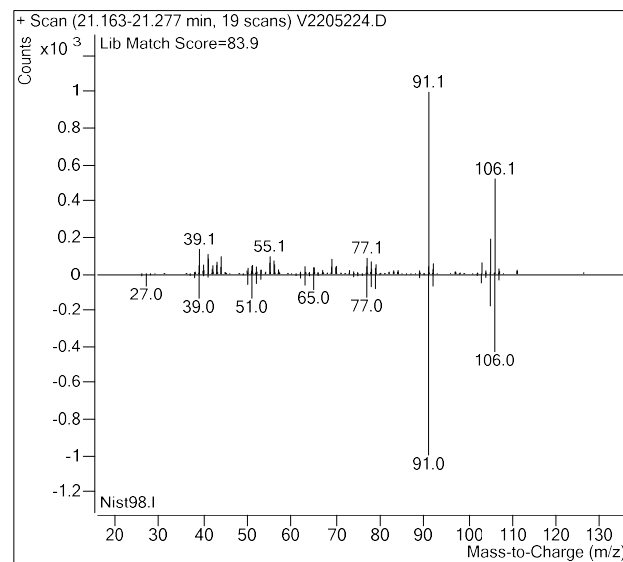
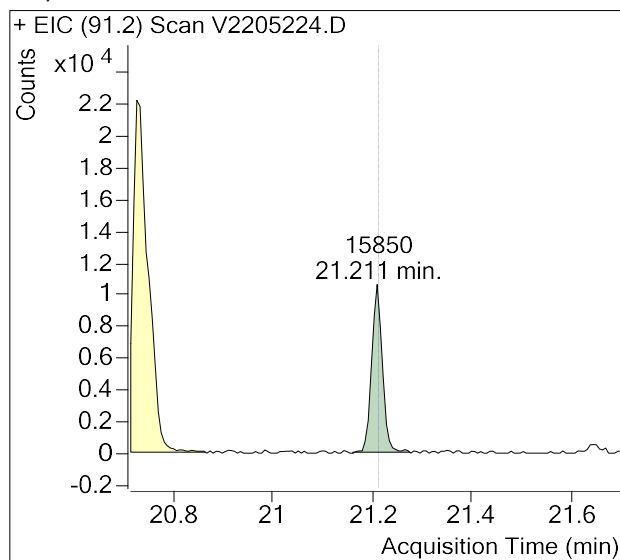


+ Scan (20.698-20.867 min, 28 scans) V2205224.D

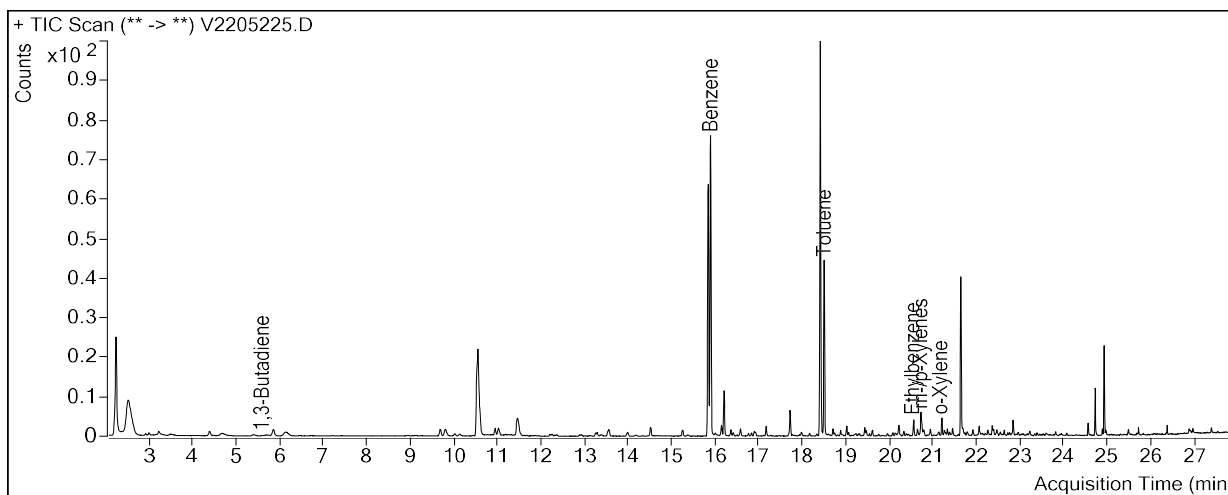


Sample Name : USSCL-PT08-S-20230228
Sample Info : B12145; Recollect
Data File : V2205224.D
Acquisition Date : 2023-03-30 21:34:08
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



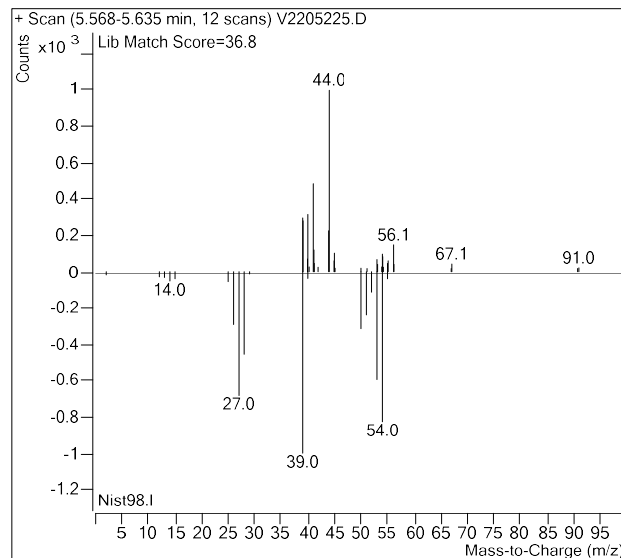
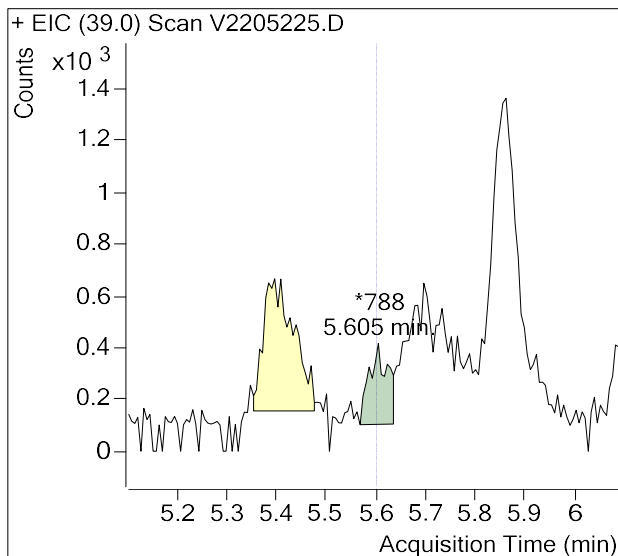
Sample Name : USSCL-PT09-S-20230228
Sample Info : B33567; Recollect
Data File : V2205225.D
Acquisition Date : 2023-03-30 22:15:07
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	788	m
Benzene-d6 (IS)	15.84	652,482	
Benzene	15.90	743,302	
Toluene-d8 (IS)	18.42	666,793	
Toluene	18.51	311,267	
Ethylbenzene	20.57	28,940	
m-/p-Xylenes	20.75	48,403	
o-Xylene	21.21	24,429	

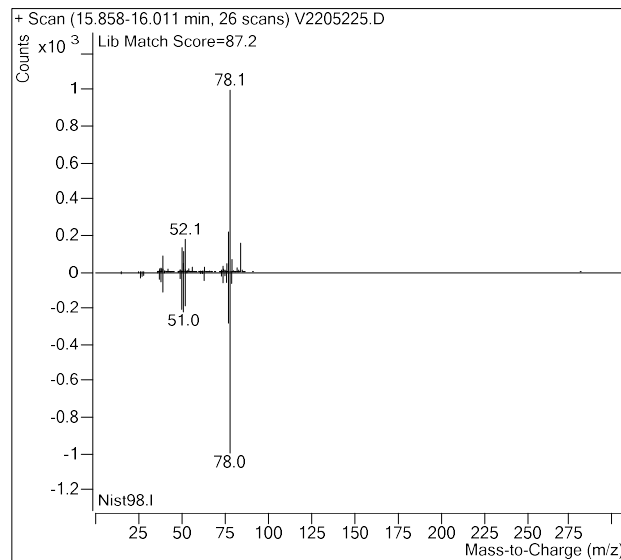
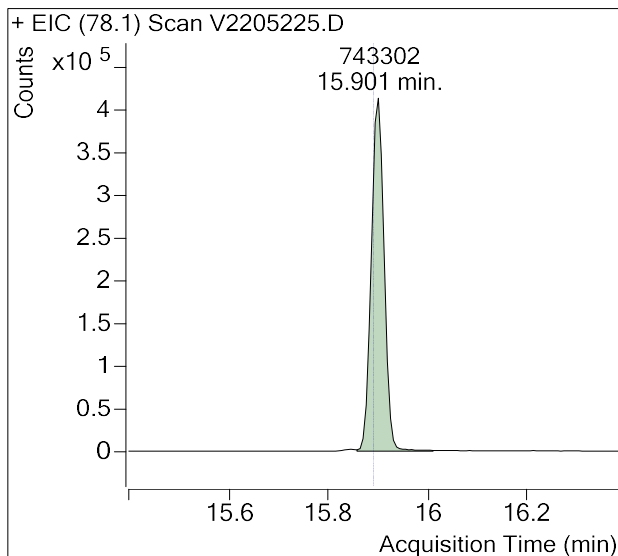
(m)=Manual Integration

1,3-Butadiene

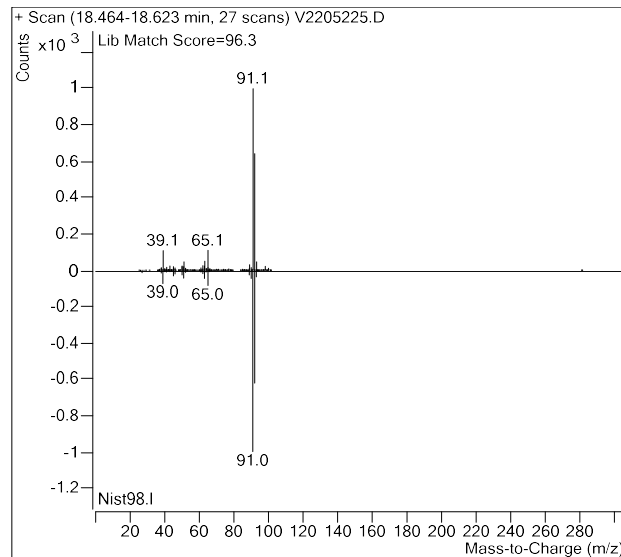
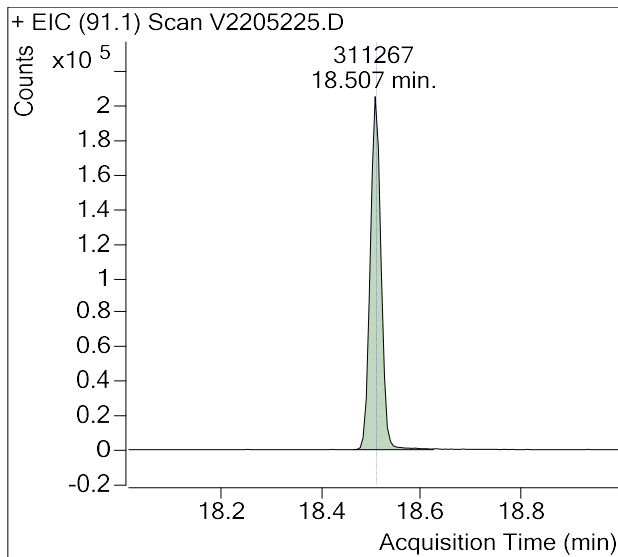


Sample Name : USSCL-PT09-S-20230228
Sample Info : B33567; Recollect
Data File : V2205225.D
Acquisition Date : 2023-03-30 22:15:07
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

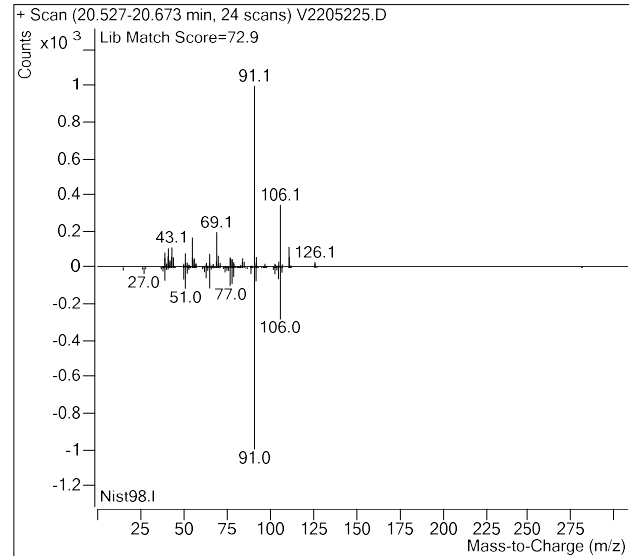
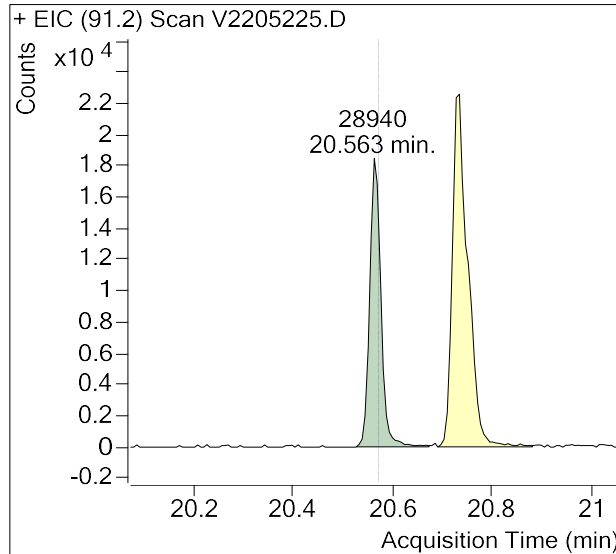


Toluene

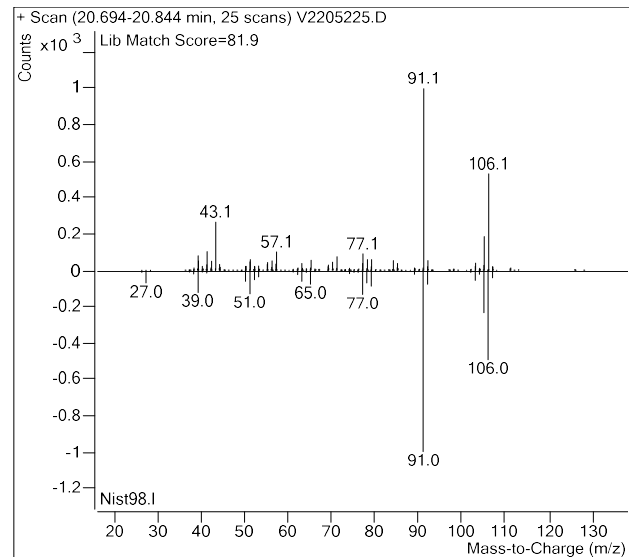
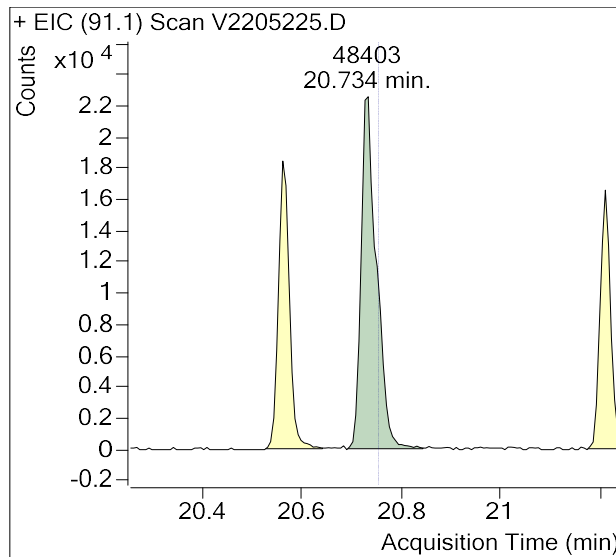


Sample Name : USSCL-PT09-S-20230228
Sample Info : B33567; Recollect
Data File : V2205225.D
Acquisition Date : 2023-03-30 22:15:07
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

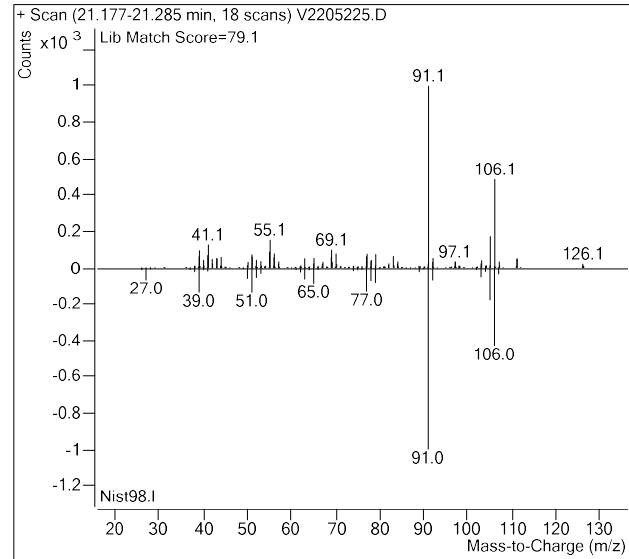
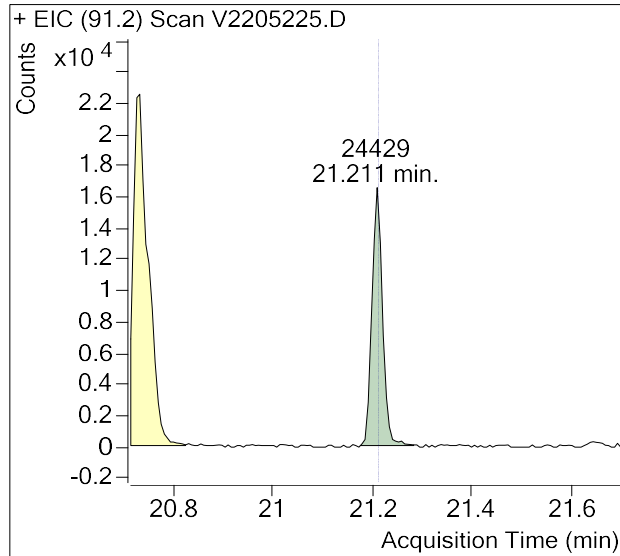


m-/p-Xylenes

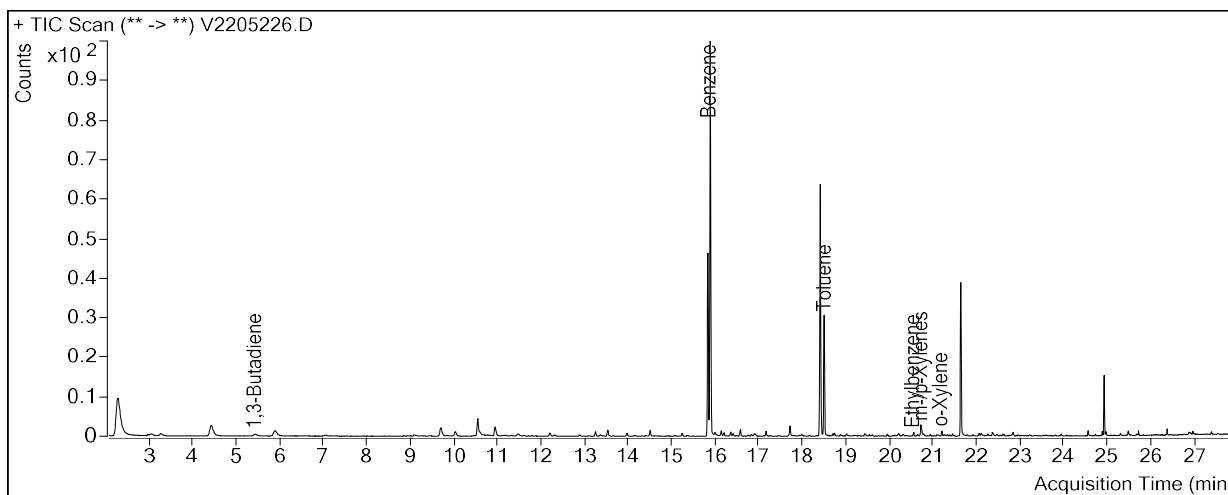


Sample Name : USSCL-PT09-S-20230228
Sample Info : B33567; Recollect
Data File : V2205225.D
Acquisition Date : 2023-03-30 22:15:07
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



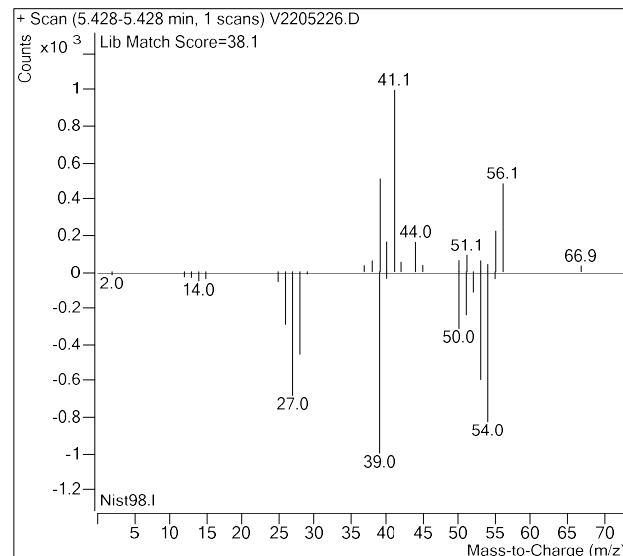
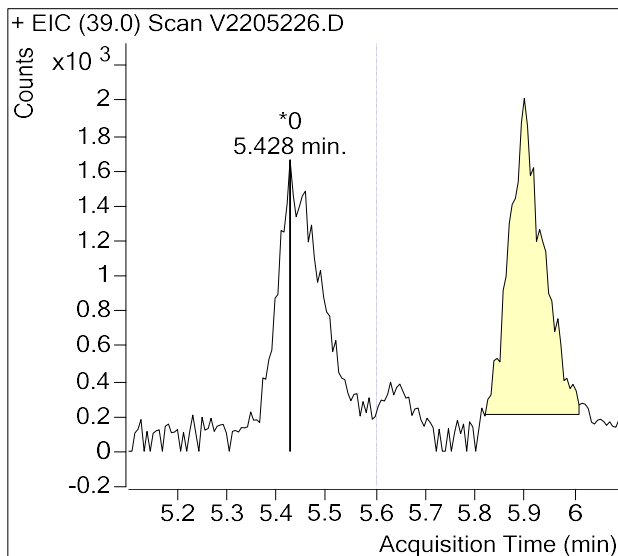
Sample Name : USSCL-PT10-D-20230228
Sample Info : B47130; Recollect
Data File : V2205226.D
Acquisition Date : 2023-03-30 22:56:01
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	752,605	
Benzene	15.90	1,515,178	
Toluene-d8 (IS)	18.42	730,675	
Toluene	18.51	376,434	
Ethylbenzene	20.57	12,185	
m-/p-Xylenes	20.75	44,337	
o-Xylene	21.21	13,030	

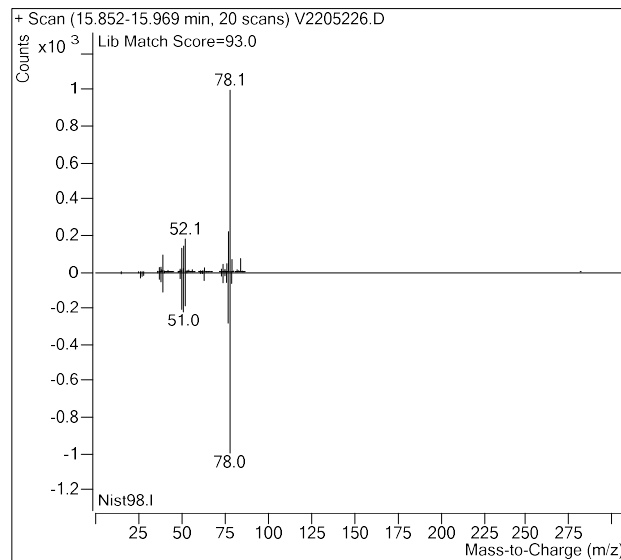
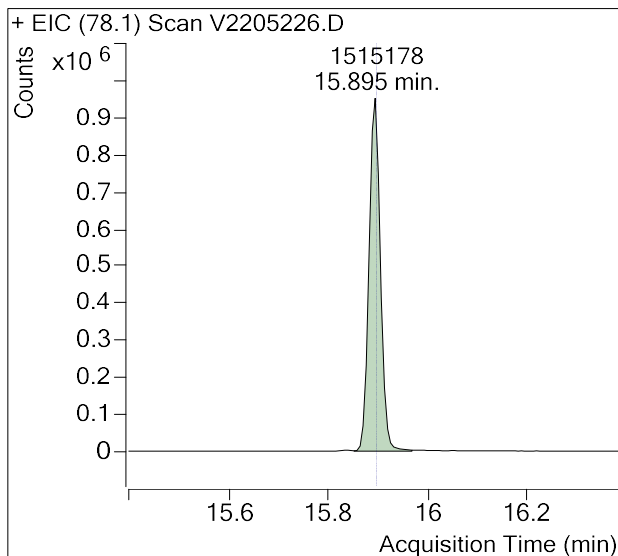
(m)=Manual Integration

1,3-Butadiene

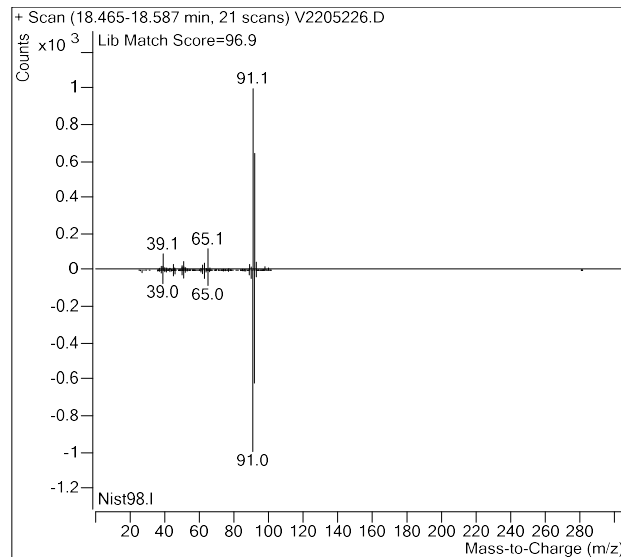
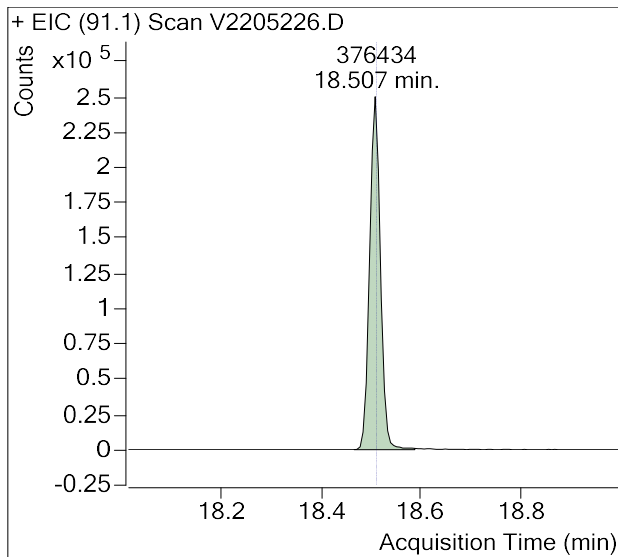


Sample Name : USSCL-PT10-D-20230228
Sample Info : B47130; Recollect
Data File : V2205226.D
Acquisition Date : 2023-03-30 22:56:01
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

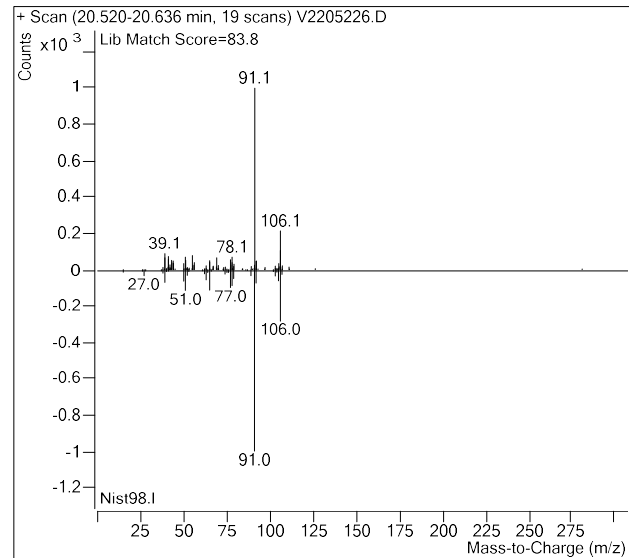
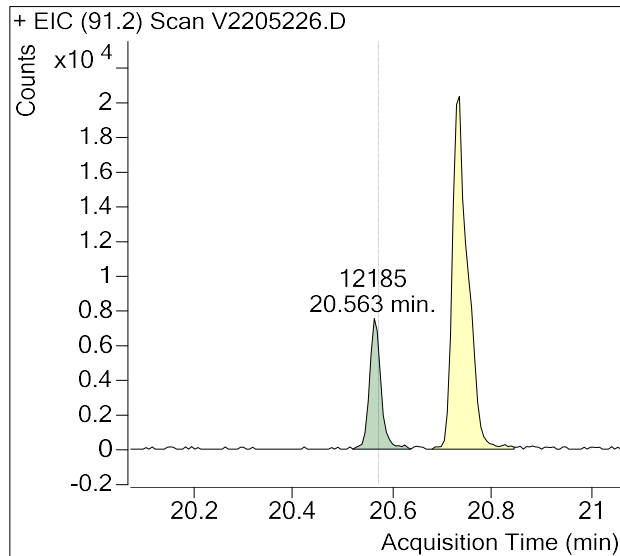


Toluene

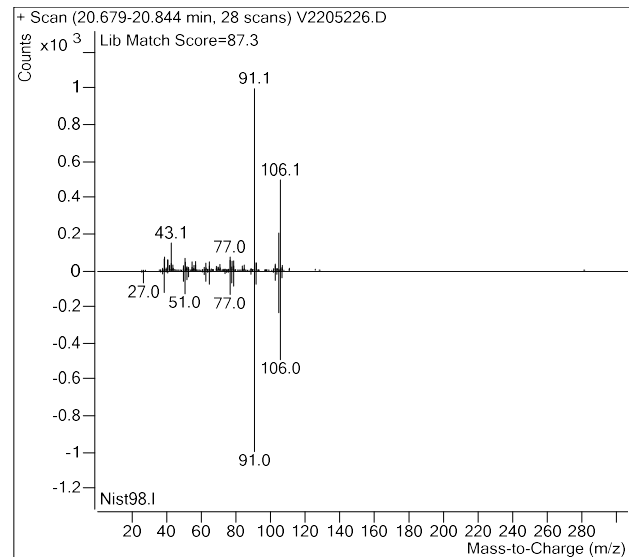
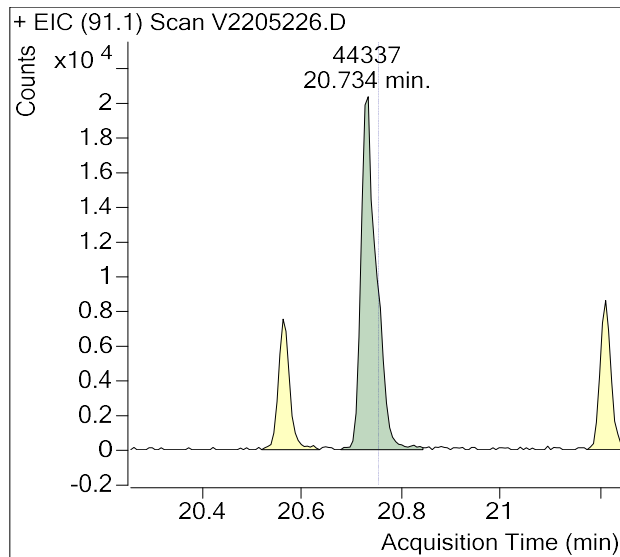


Sample Name : USSCL-PT10-D-20230228
Sample Info : B47130; Recollect
Data File : V2205226.D
Acquisition Date : 2023-03-30 22:56:01
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

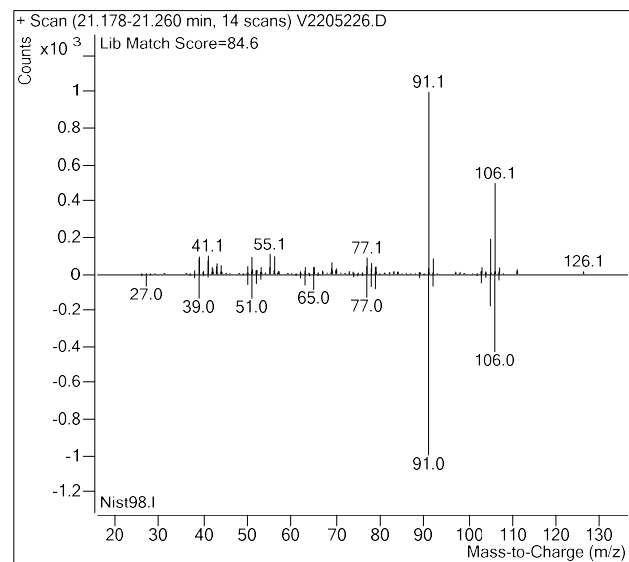
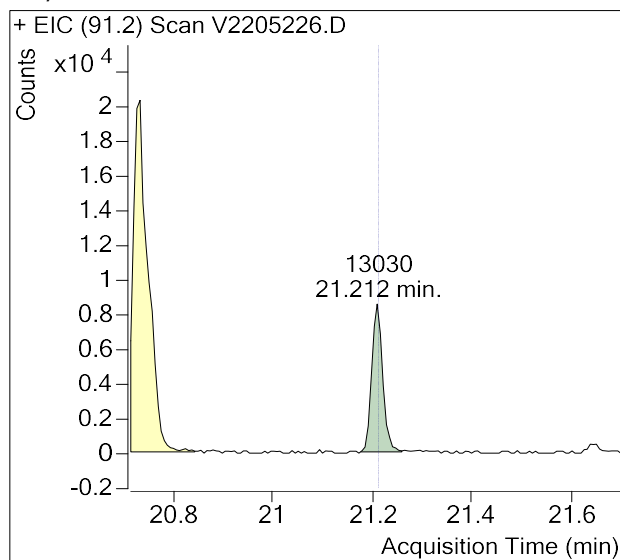


m-/p-Xylenes

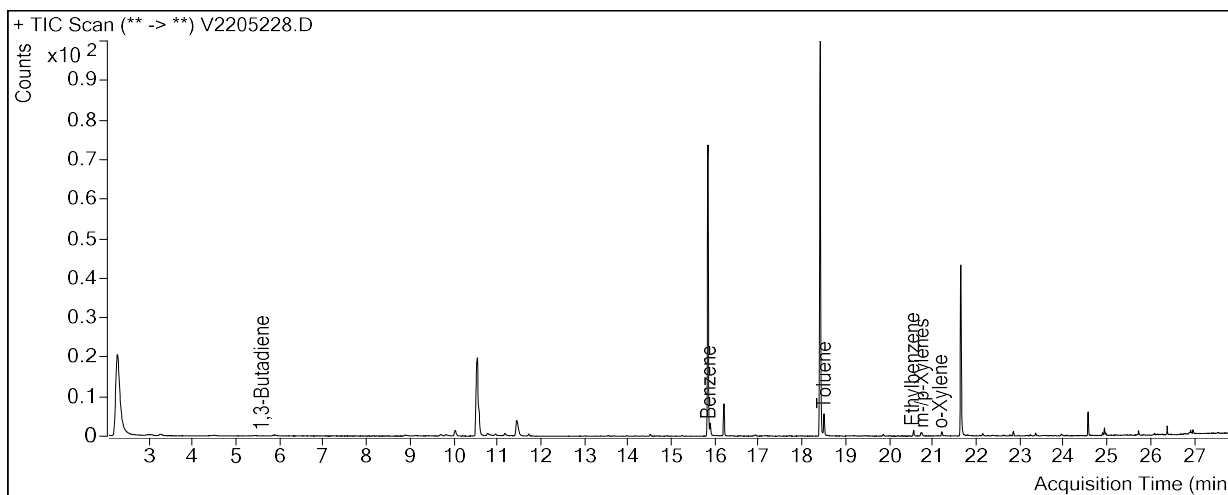


Sample Name : USSCL-PT10-D-20230228
Sample Info : B47130; Recollect
Data File : V2205226.D
Acquisition Date : 2023-03-30 22:56:01
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



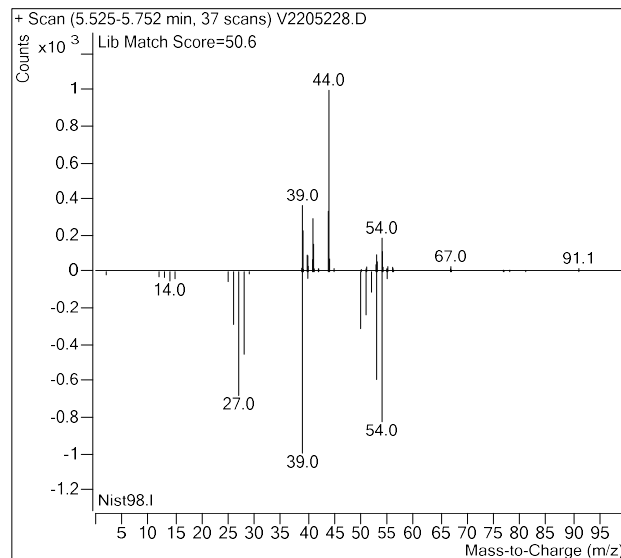
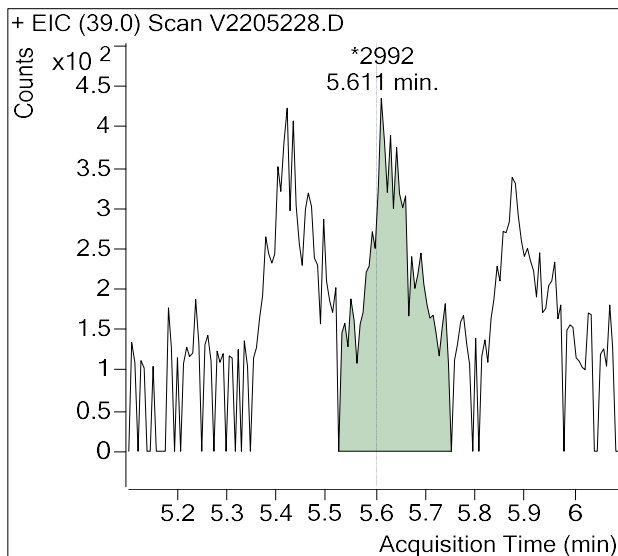
Sample Name : USSCL-PT10-S-20230228
Sample Info : B31630; Recollect
Data File : V2205228.D
Acquisition Date : 2023-03-31 01:03:14
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	2,992	m
Benzene-d6 (IS)	15.84	759,752	
Benzene	15.90	26,901	
Toluene-d8 (IS)	18.42	726,956	
Toluene	18.51	42,993	
Ethylbenzene	20.57	13,361	
m-/p-Xylenes	20.75	11,325	
o-Xylene	21.21	9,005	

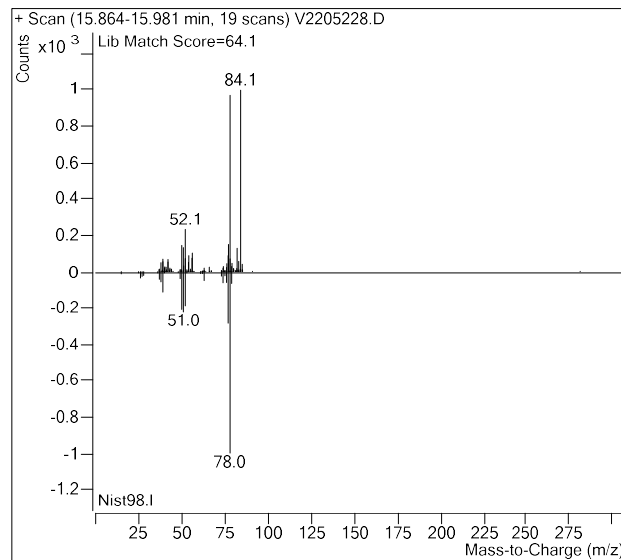
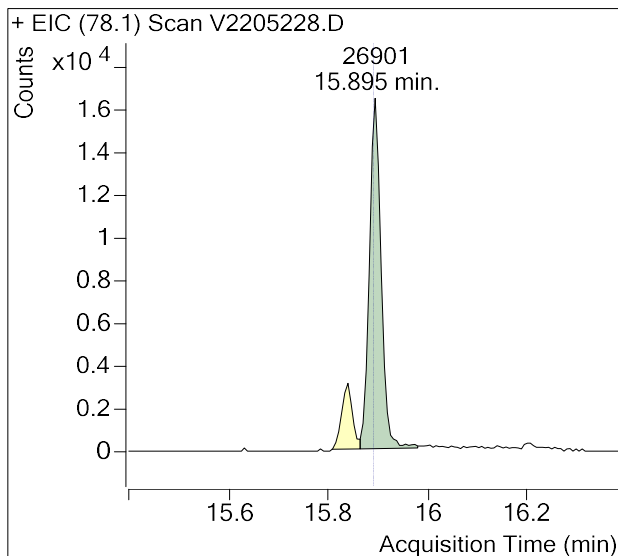
(m)=Manual Integration

1,3-Butadiene

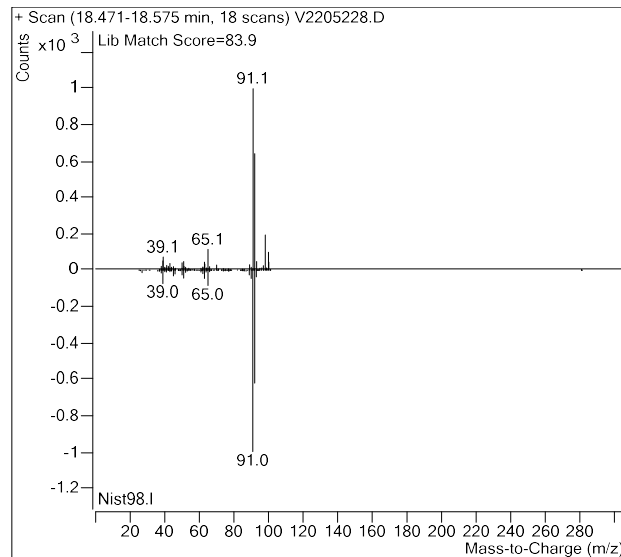
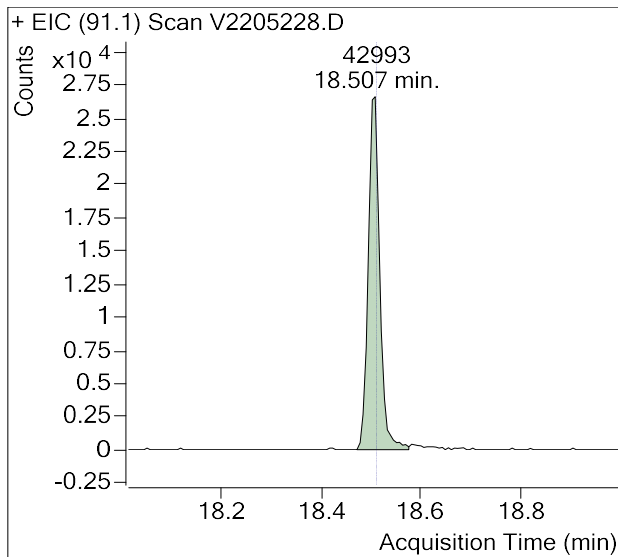


Sample Name : USSCL-PT10-S-20230228
Sample Info : B31630; Recollect
Data File : V2205228.D
Acquisition Date : 2023-03-31 01:03:14
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

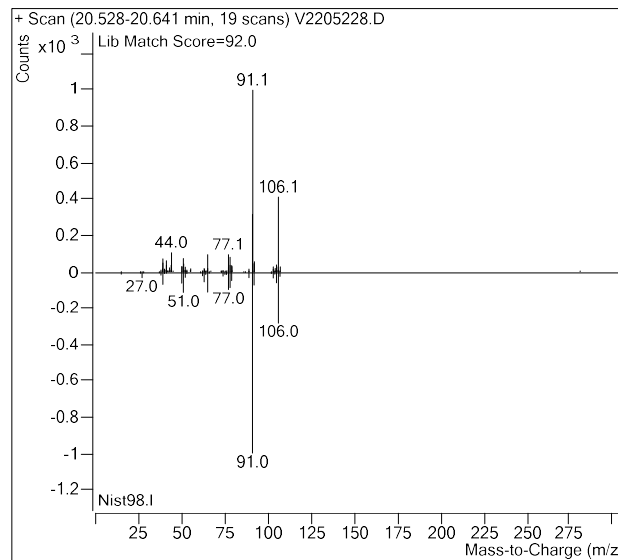
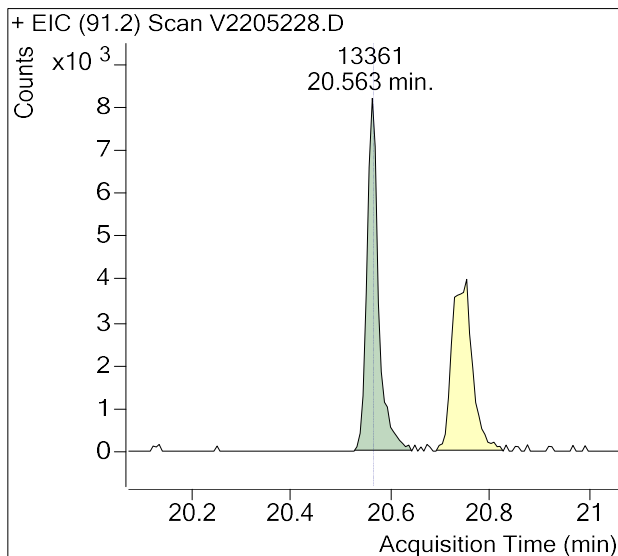


Toluene

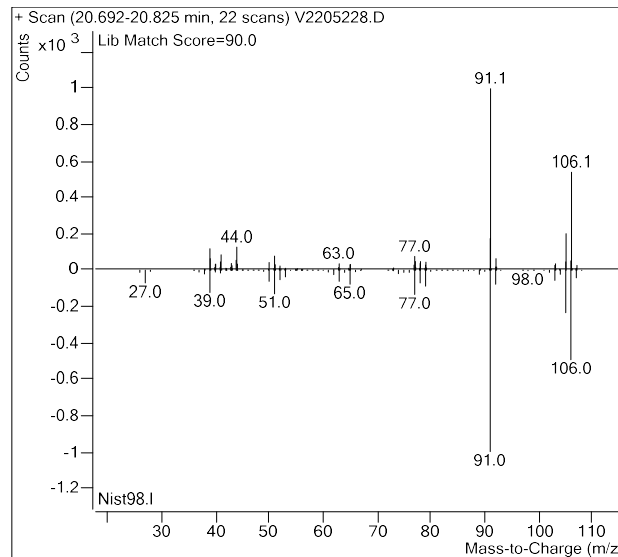
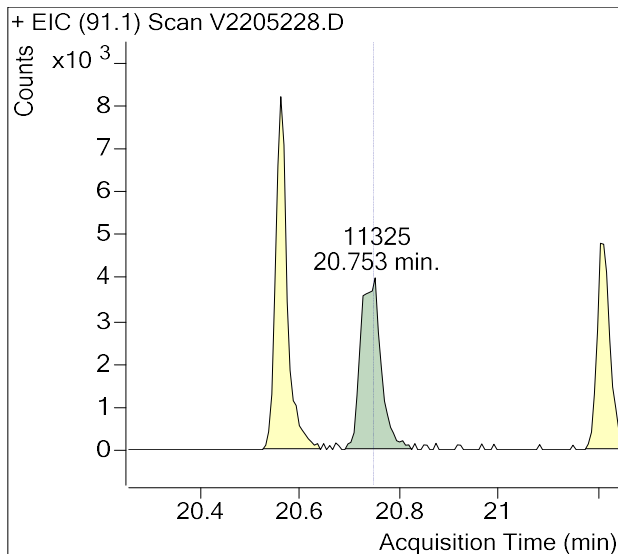


Sample Name : USSCL-PT10-S-20230228
Sample Info : B31630; Recollect
Data File : V2205228.D
Acquisition Date : 2023-03-31 01:03:14
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

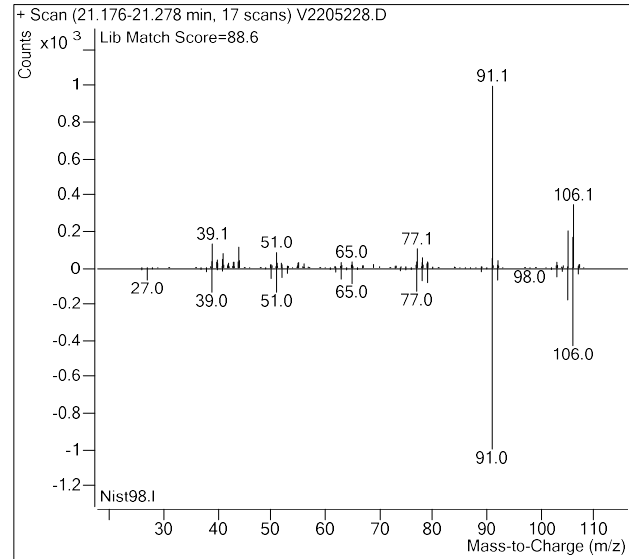
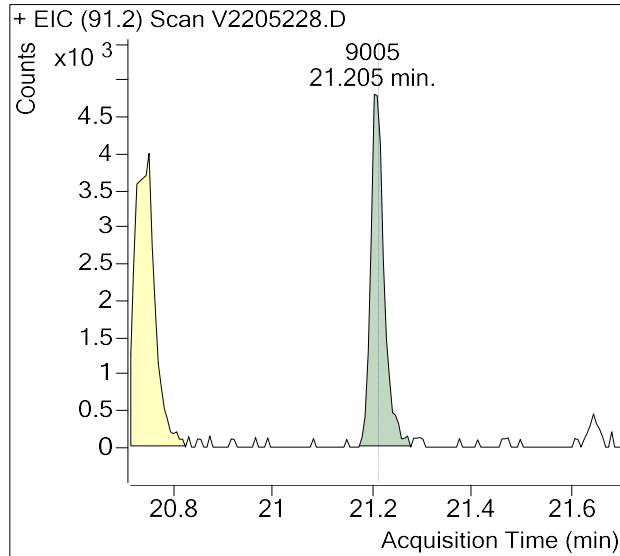


m-/p-Xylenes

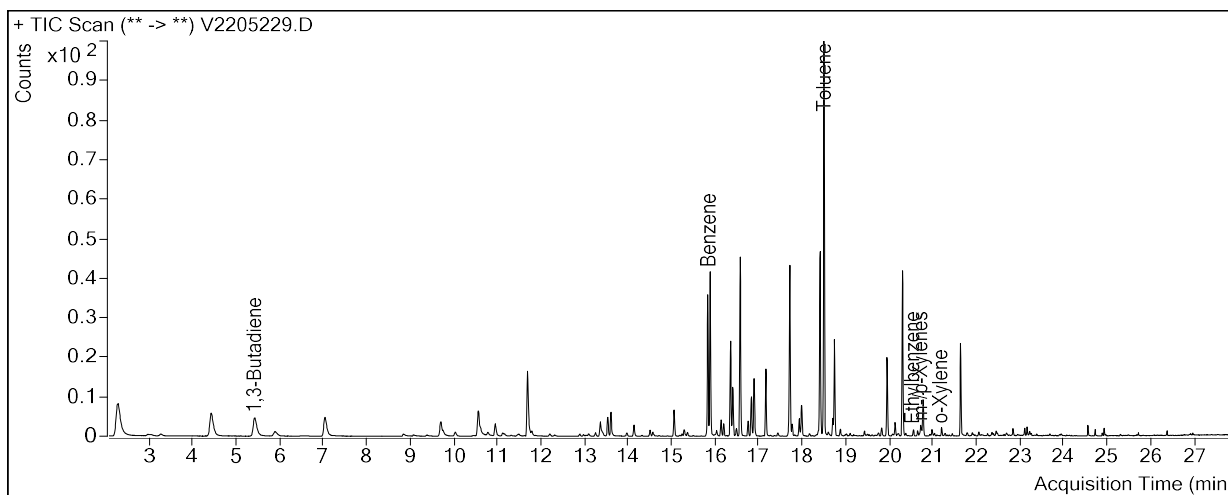


Sample Name : USSCL-PT10-S-20230228
Sample Info : B31630; Recollect
Data File : V2205228.D
Acquisition Date : 2023-03-31 01:03:14
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



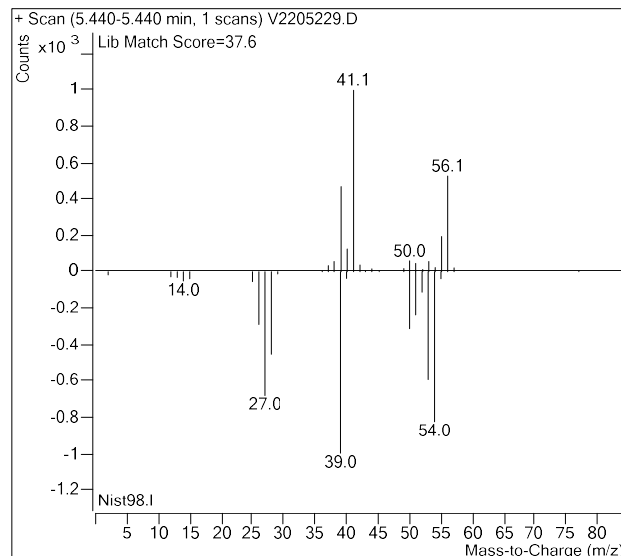
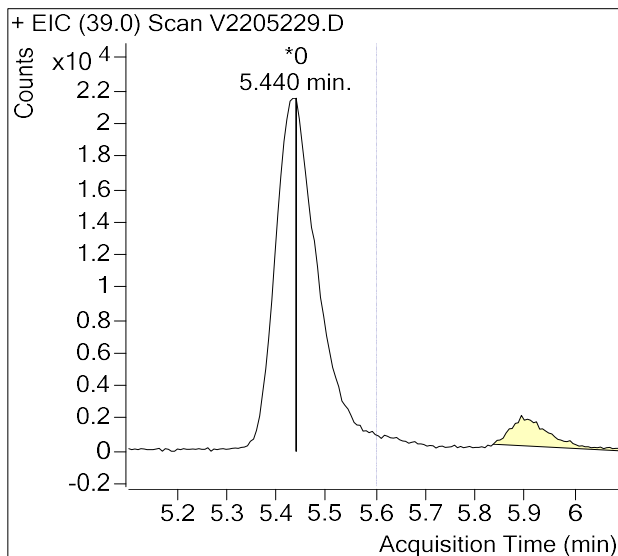
Sample Name : USSCL-PT11-S-20230228
Sample Info : B17473; Recollect
Data File : V2205229.D
Acquisition Date : 2023-03-31 01:43:44
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	741,602	
Benzene	15.90	848,251	
Toluene-d8 (IS)	18.42	713,702	
Toluene	18.51	1,663,297	
Ethylbenzene	20.57	26,620	
m-/p-Xylenes	20.75	52,547	
o-Xylene	21.21	28,131	

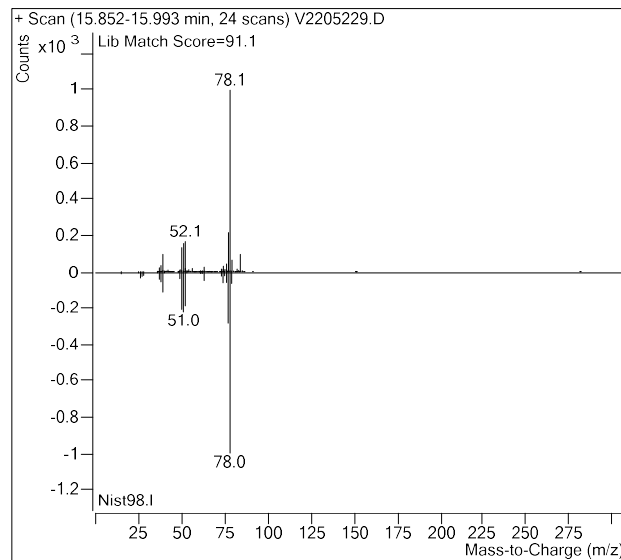
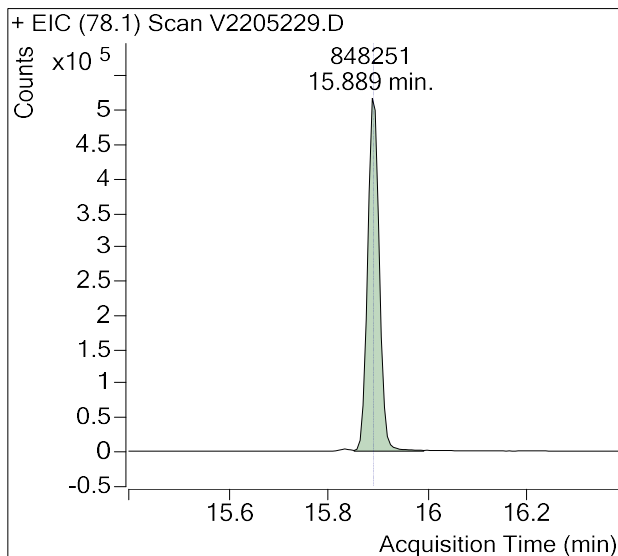
(m)=Manual Integration

1,3-Butadiene

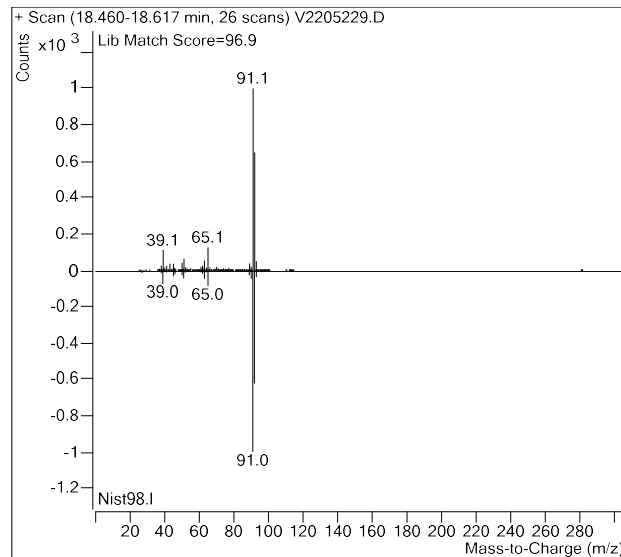
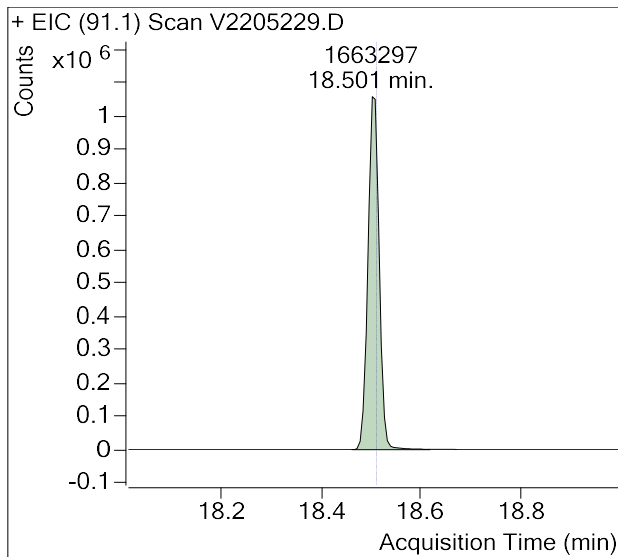


Sample Name : USSCL-PT11-S-20230228
Sample Info : B17473; Recollect
Data File : V2205229.D
Acquisition Date : 2023-03-31 01:43:44
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

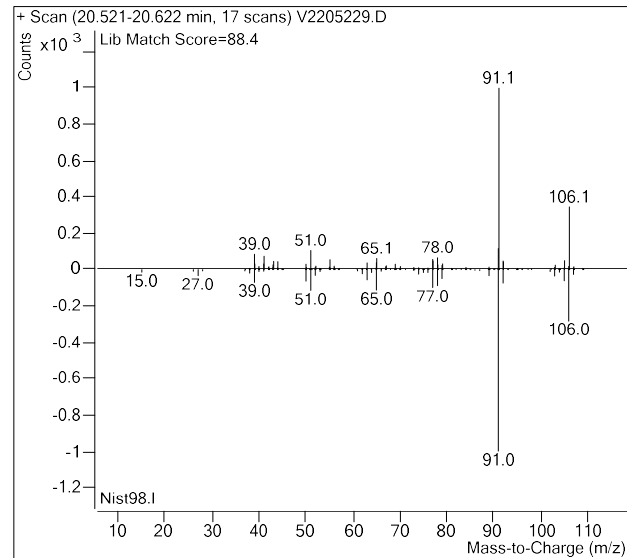
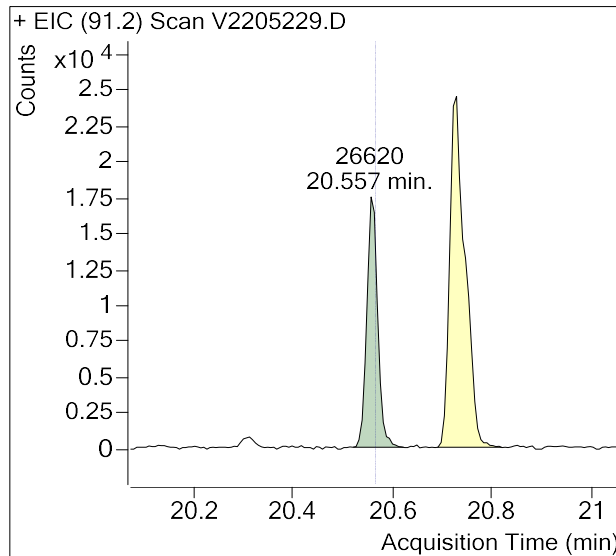


Toluene

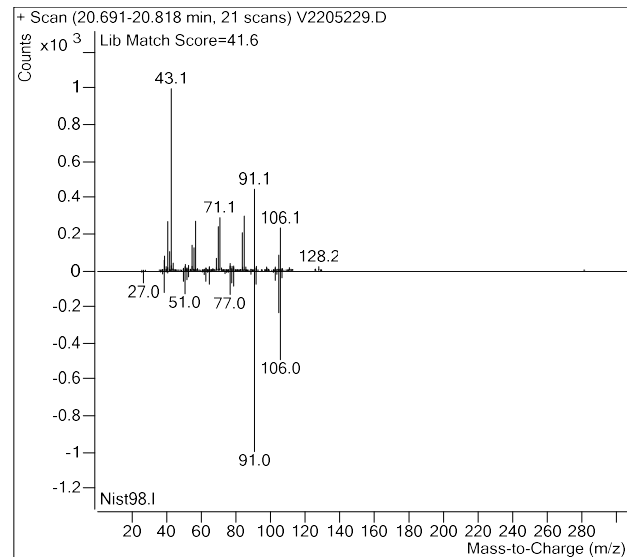
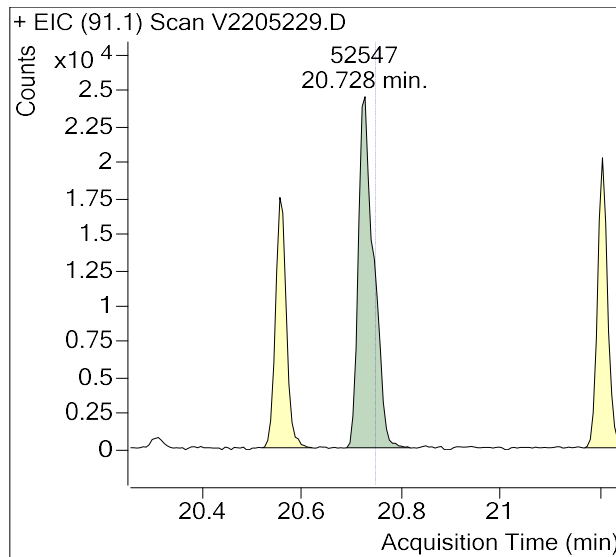


Sample Name : USSCL-PT11-S-20230228
Sample Info : B17473; Recollect
Data File : V2205229.D
Acquisition Date : 2023-03-31 01:43:44
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

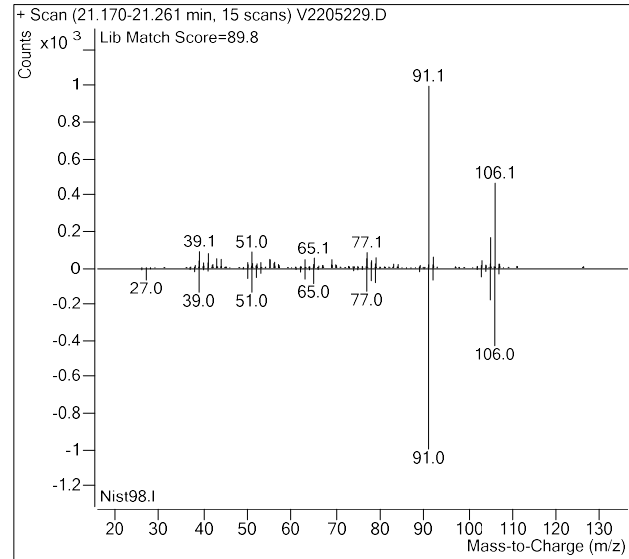
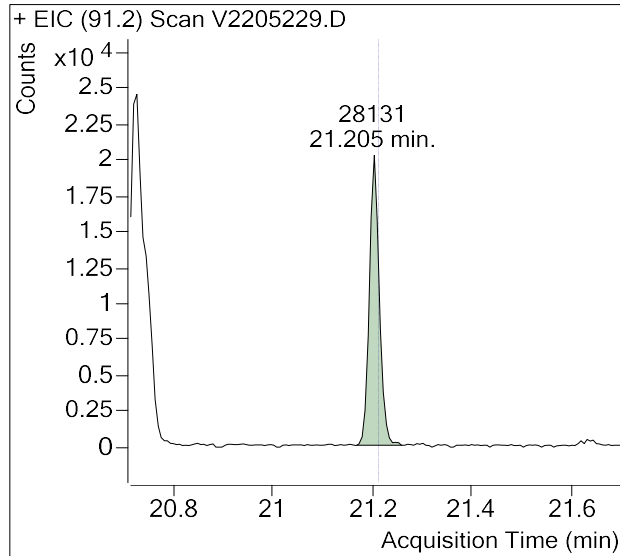


m-/p-Xylenes

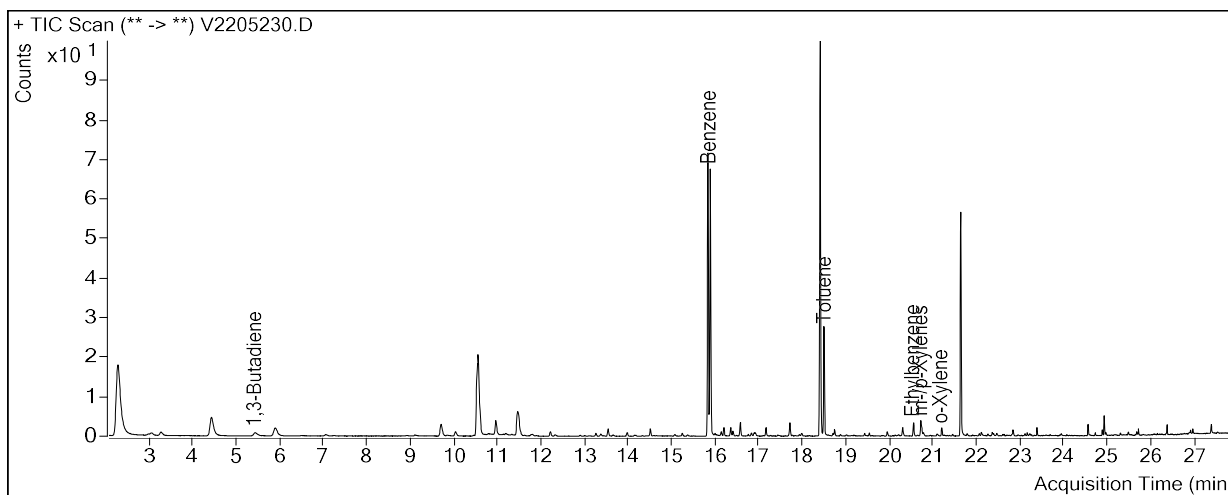


Sample Name : USSCL-PT11-S-20230228
Sample Info : B17473; Recollect
Data File : V2205229.D
Acquisition Date : 2023-03-31 01:43:44
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



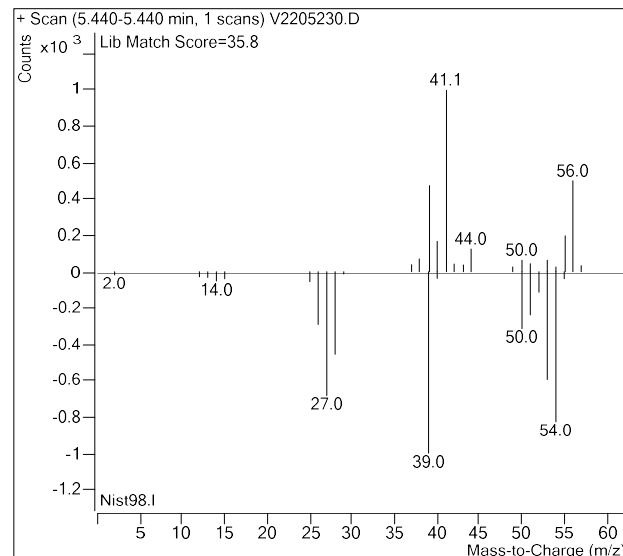
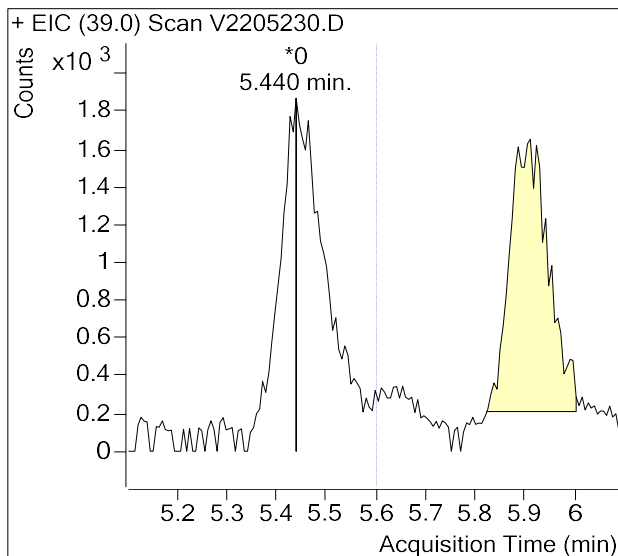
Sample Name : USSCL-PT12-S-20230228
Sample Info : B43008; Recollect
Data File : V2205230.D
Acquisition Date : 2023-03-31 02:24:11
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	737,045	
Benzene	15.90	638,074	
Toluene-d8 (IS)	18.42	707,958	
Toluene	18.51	221,558	
Ethylbenzene	20.57	28,565	
m-/p-Xylenes	20.75	38,187	
o-Xylene	21.21	14,888	

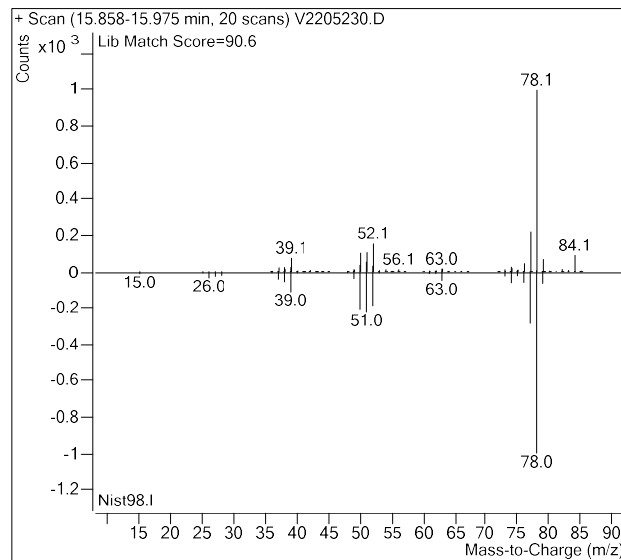
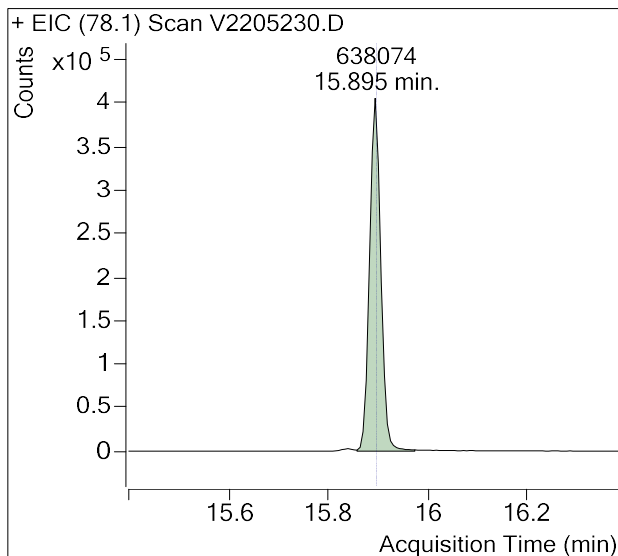
(m)=Manual Integration

1,3-Butadiene

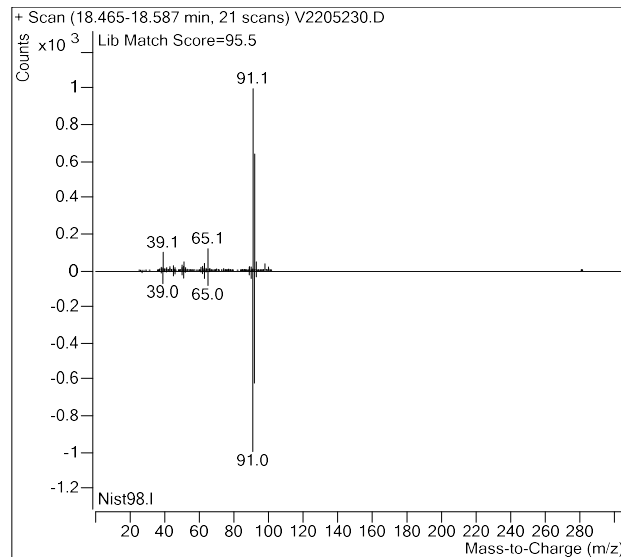
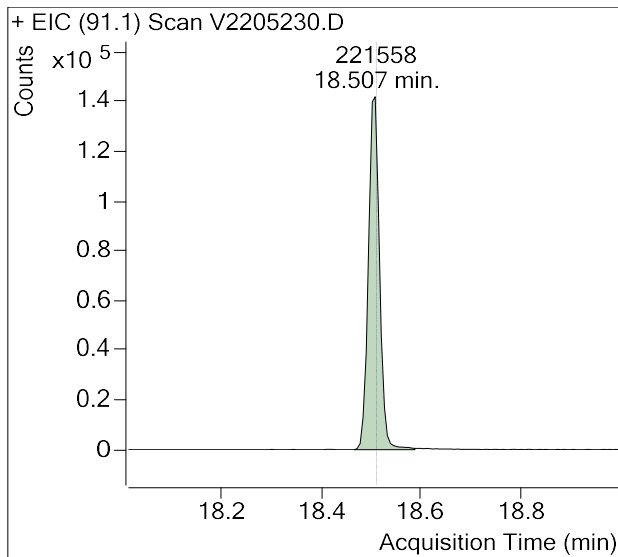


Sample Name : USSCL-PT12-S-20230228
Sample Info : B43008; Recollect
Data File : V2205230.D
Acquisition Date : 2023-03-31 02:24:11
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

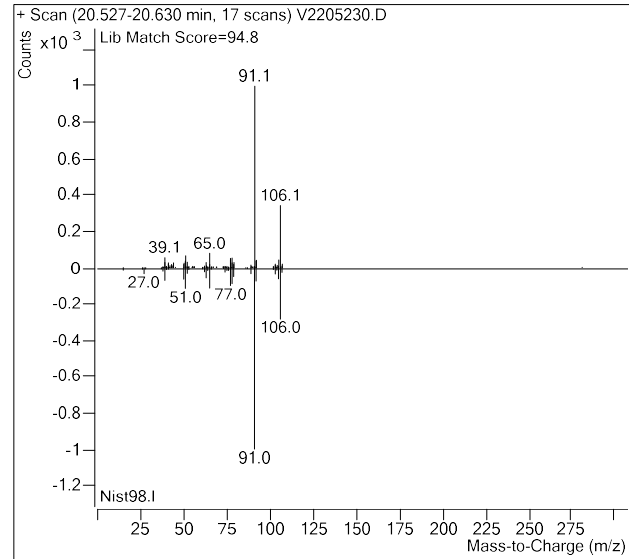
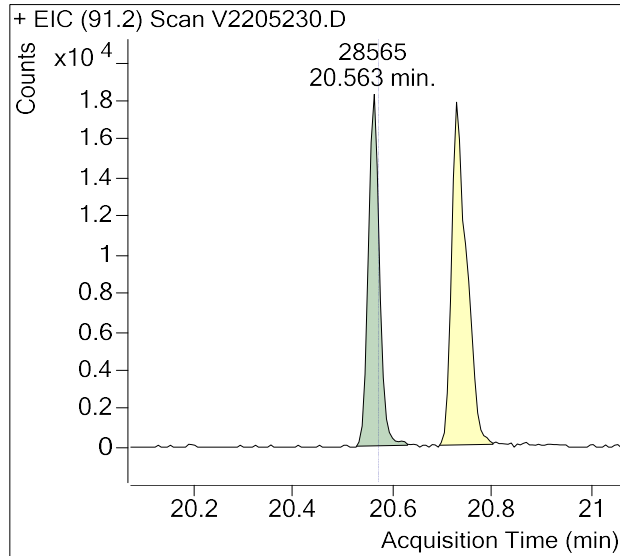


Toluene

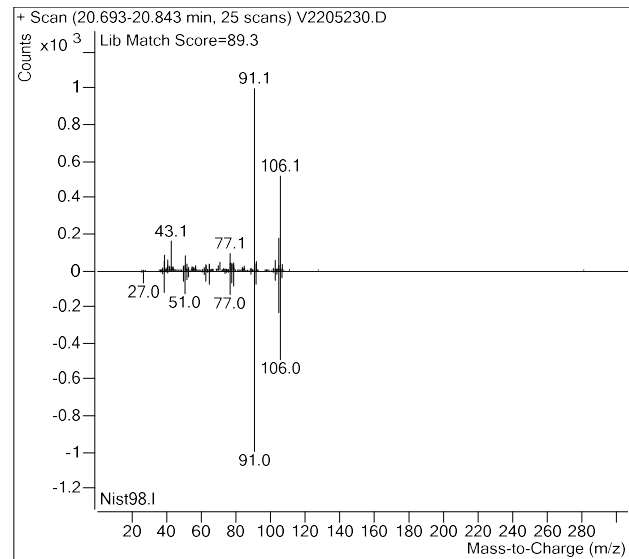
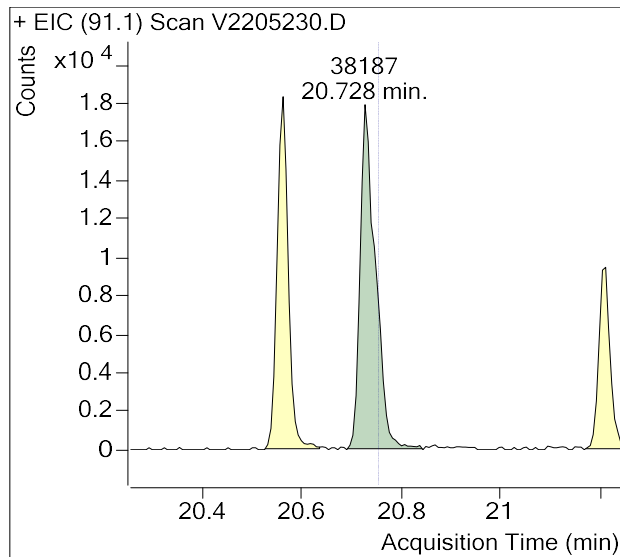


Sample Name : USSCL-PT12-S-20230228
Sample Info : B43008; Recollect
Data File : V2205230.D
Acquisition Date : 2023-03-31 02:24:11
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

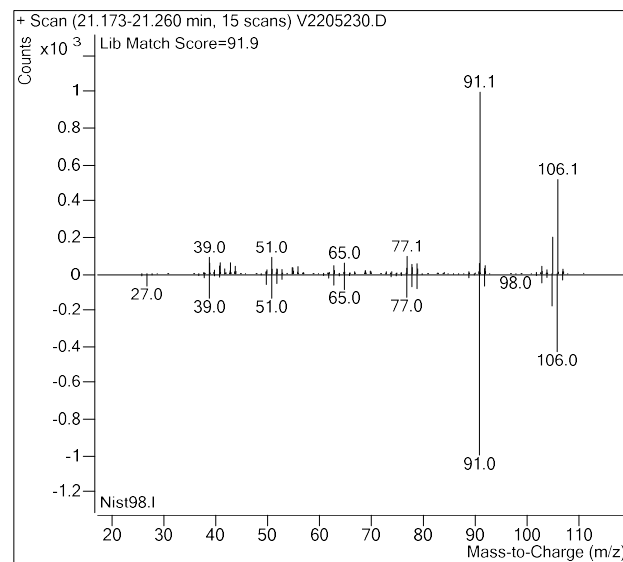
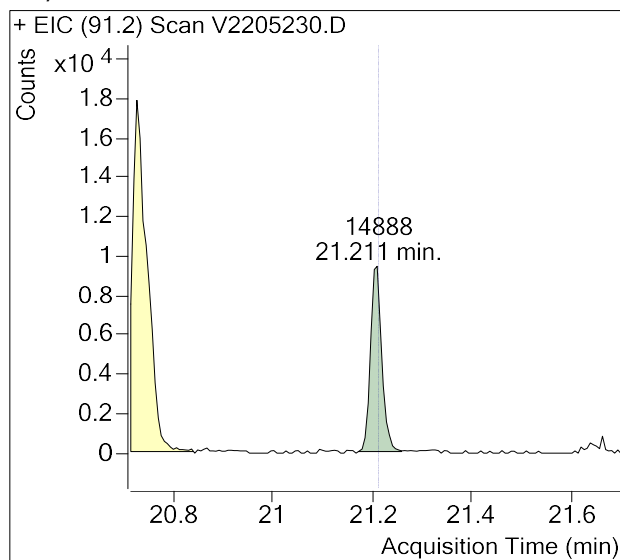


m-/p-Xylenes



Sample Name : USSCL-PT12-S-20230228
Sample Info : B43008; Recollect
Data File : V2205230.D
Acquisition Date : 2023-03-31 02:24:11
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



Calibration Summary Reports



Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE106-1 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 RRF	Last CCV RRF	RRF Change	ISTD Change vs ICal	ISTD Change vs Concal	Pass/ Fail	Flags
M325B CCV 5	Cal	0.366	0.343	0.366	6.6%	-0.83%		Pass	
2023EE106 Method Blank-1	Blank		0.343	0.366			-9.4%	Pass	ND,Rc
M325B CCV 5	Check	0.353	0.343	0.366	3.0%		-0.43%	Pass	
M325B CCV 5	Check	0.341	0.343	0.366	-0.69%		-1.4%	Pass	

Benzene Calibration and Blanks

Sample Code	Type	RRF	ICAL RRF	Last CCV RRF	RRF Change	ISTD Change vs ICal	ISTD Change vs Concal	Pass/ Fail	Flags
M325B CCV 5	Cal	1.002	1.003	1.002	-0.10%	-0.83%		Pass	
2023EE106 Method Blank-1	Blank		1.003	1.002			-9.4%	Pass	J,Rc
M325B CCV 5	Check	1.004	1.003	1.002	0.077%		-0.43%	Pass	
M325B CCV 5	Check	0.997	1.003	1.002	-0.61%		-1.4%	Pass	

Ethylbenzene Calibration and Blanks

Sample Code	Type	RRF	ICAL RRF	Last CCV RRF	RRF Change	ISTD Change vs ICal	ISTD Change vs Concal	Pass/ Fail	Flags
M325B CCV 5	Cal	1.270	1.246	1.270	1.9%	-2.7%		Pass	
2023EE106 Method Blank-1	Blank		1.246	1.270			-8.8%	Pass	ND,Rc
M325B CCV 5	Check	1.290	1.246	1.270	3.5%		-1.1%	Pass	
M325B CCV 5	Check	1.239	1.246	1.270	-0.61%		0.12%	Pass	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE106-1 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 RRF	Last CCV RRF	RRF Change	ISTD Change vs ICal	ISTD Change vs Concal	Pass/ Fail	Flags
M325B CCV 5	Cal	0.950	0.932	0.950	1.9%	-2.7%		Pass	
2023EE106 Method Blank-1	Blank		0.932	0.950			-8.8%	Pass	ND,Rc
M325B CCV 5	Check	0.945	0.932	0.950	1.4%		-1.1%	Pass	
M325B CCV 5	Check	0.916	0.932	0.950	-1.7%		0.12%	Pass	

o-Xylene Calibration and Blanks

Sample Code	Type	RRF	ICAL RRF	Last CCV RRF	RRF Change	ISTD Change vs ICal	ISTD Change vs Concal	Pass/ Fail	Flags
M325B CCV 5	Cal	0.989	0.974	0.989	1.6%	-2.7%		Pass	
2023EE106 Method Blank-1	Blank		0.974	0.989			-8.8%	Pass	ND,Rc
M325B CCV 5	Check	0.992	0.974	0.989	1.8%		-1.1%	Pass	
M325B CCV 5	Check	0.958	0.974	0.989	-1.6%		0.12%	Pass	

Toluene Calibration and Blanks

Sample Code	Type	RRF	ICAL RRF	Last CCV RRF	RRF Change	ISTD Change vs ICal	ISTD Change vs Concal	Pass/ Fail	Flags
M325B CCV 5	Cal	1.163	1.131	1.163	2.8%	-2.7%		Pass	
2023EE106 Method Blank-1	Blank		1.131	1.163			-8.8%	Pass	ND,Rc
M325B CCV 5	Check	1.164	1.131	1.163	2.9%		-1.1%	Pass	
M325B CCV 5	Check	1.140	1.131	1.163	0.75%		0.12%	Pass	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE106-1 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
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	1	V2205203.D	5.35	17229	92.4	863335	0.345	0.50%
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	2	V2205204.D	10.70	32634	92.4	862797	0.327	-4.8%
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	3	V2205205.D	21.39	65994	92.4	852272	0.335	-2.5%
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	4	V2205206.D	42.79	133304	92.4	865809	0.333	-3.1%
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	5	V2205207.D	106.97	366898	92.4	869320	0.365	6.3%
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	6	V2205208.D	213.94	715324	92.4	864871	0.357	4.1%
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	7	V2205209.D	641.83	2061590	92.4	870023	0.341	-0.56%
Avg:							864061	0.343	
%RSD:							0.68%	4.0%	
V033023A_BUT_BTEX.quantmethod.xml	Benzene	1	V2205203.D	5.27	58533	92.4	863335	1.189	19%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	2	V2205204.D	10.54	99490	92.4	862797	1.011	0.84%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	3	V2205205.D	21.08	193461	92.4	852272	0.995	-0.74%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	4	V2205206.D	42.16	380485	92.4	865809	0.963	-3.9%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	5	V2205207.D	105.40	998732	92.4	869320	1.007	0.47%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	6	V2205208.D	210.80	1921756	92.4	864871	0.974	-2.8%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	7	V2205209.D	632.41	5229762	92.4	870023	0.879	-12%
Avg:							864061	1.003	
%RSD:							0.68%	9.3%	
V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	2	V2205204.D	10.83	106201	109.3	842237	1.272	2.1%
V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	3	V2205205.D	21.67	213211	109.3	833818	1.290	3.5%
V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	4	V2205206.D	43.33	436609	109.3	840482	1.310	5.2%
V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	5	V2205207.D	108.34	1053557	109.3	847593	1.254	0.65%
V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	6	V2205208.D	216.67	2049169	109.3	838718	1.233	-1.1%
V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	7	V2205209.D	650.02	5563240	109.3	837447	1.117	-10%
Avg:							840049	1.246	
%RSD:							0.56%	5.5%	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE106-1 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
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	2	V2205204.D	10.90	78094	109.3	842237	0.929	-0.26%
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	3	V2205205.D	21.81	155705	109.3	833818	0.936	0.44%
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	4	V2205206.D	43.62	325249	109.3	840482	0.970	4.1%
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	5	V2205207.D	109.04	779701	109.3	847593	0.922	-1.0%
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	6	V2205208.D	218.09	1539883	109.3	838718	0.920	-1.2%
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	7	V2205209.D	654.27	4578956	109.3	837447	0.913	-2.0%
Avg:							840049	0.932	
%RSD:							0.56%	2.2%	
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	2	V2205204.D	10.96	85412	109.3	842237	1.011	3.8%
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	3	V2205205.D	21.93	167271	109.3	833818	1.000	2.7%
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	4	V2205206.D	43.86	351004	109.3	840482	1.041	6.9%
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	5	V2205207.D	109.64	814026	109.3	847593	0.957	-1.7%
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	6	V2205208.D	219.28	1593179	109.3	838718	0.947	-2.8%
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	7	V2205209.D	657.85	4471401	109.3	837447	0.887	-8.9%
Avg:							840049	0.974	
%RSD:							0.56%	5.6%	
V033023A_BUT_BTEX.quantmethod.xml	Toluene	2	V2205204.D	10.95	101533	109.3	842237	1.204	6.4%
V033023A_BUT_BTEX.quantmethod.xml	Toluene	3	V2205205.D	21.89	198690	109.3	833818	1.190	5.2%
V033023A_BUT_BTEX.quantmethod.xml	Toluene	4	V2205206.D	43.78	385990	109.3	840482	1.147	1.4%
V033023A_BUT_BTEX.quantmethod.xml	Toluene	5	V2205207.D	109.45	972222	109.3	847593	1.146	1.3%
V033023A_BUT_BTEX.quantmethod.xml	Toluene	6	V2205208.D	218.91	1868010	109.3	838718	1.112	-1.7%
V033023A_BUT_BTEX.quantmethod.xml	Toluene	7	V2205209.D	656.72	4977331	109.3	837447	0.989	-13%
Avg:							840049	1.131	
%RSD:							0.56%	6.8%	
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	ICV	V2205210.D	104.90	375855	92.4	865460	0.383	12%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	ICV	V2205210.D	105.60	1026704	92.4	865460	1.038	3.5%
V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	ICV	V2205210.D	108.53	1109904	109.3	838719	1.333	7%
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	ICV	V2205210.D	109.24	821374	109.3	838719	0.980	5.2%
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	ICV	V2205210.D	109.84	839084	109.3	838719	0.996	2.2%
V033023A_BUT_BTEX.quantmethod.xml	Toluene	ICV	V2205210.D	109.67	1015778	109.3	838719	1.207	6.7%

**This Is The Last Page
Of This Report.**