

All4, Inc.

2393 Kimberton Road
Kimberton, PA 19442

Coke Oven ICR Sampling Event #04

US Steel Corp - Clairton Works ICR

Project: 00701-0002.00

Analytical Report (2022EE104)

EPA Method 325B

1,3-Butadiene

Benzene

Ethylbenzene

m/p-Xylene

o-Xylene

Toluene



Enthalpy Analytical, LLC

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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) and contains 85 pages.

Report Issued: 12/20/2022



Summary of Results

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE104-1 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/m³)	Flag	Benzene (ug/m³)	Flag	Ethylbenzene (ug/m³)	Flag	m-/p-Xylenes (ug/m³)	Flag	o-Xylene (ug/m³)	Flag	Toluene (ug/m³)	Flag
USSCL-PT01-S-20221122	C01418		ND	27.1			ND	0.691			ND	3.22	
USSCL-PT02-S-20221122	B42751		ND	9.47			ND	0.685			ND	2.64	
USSCL-PT03-S-20221122	B15109		ND,Rc	10.5	Rc		ND,Rc	0.707	Rc		ND,Rc	3.19	Rc
USSCL-PT04-S-20221122	B15565		ND	11.8			ND	1.17			ND	5.17	
USSCL-PT05-S-20221122	B14981		ND	2.98			ND		ND		ND	3.23	
USSCL-PT06-S-20221122	B20992		ND	5.85			ND	0.714			ND	6.08	
USSCL-PT07-S-20221122	B37438		ND	2.21			ND		ND		ND	6.33	
USSCL-PT08-S-20221122	C01666		ND	4.07			ND	0.627			ND	6.23	
USSCL-PT09-S-20221122	B48066		ND	17.4			ND	2.10		0.720		9.03	
USSCL-PT10-S-20221122	B42761		ND	25.6			ND	1.22			ND	8.69	
USSCL-PT10-B-20221122	B37645		ND		ND		ND		ND		ND		ND
USSCL-PT10-D-20221122	C02034		ND	25.7			ND	1.22			ND	8.39	
USSCL-PT11-S-20221122	B50728		ND	30.7			ND	1.06			ND	7.79	
USSCL-PT12-S-20221122	B19821		ND	12.8			ND	0.930			ND	4.36	

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

Rc: Recollection analysis

Results

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE104-1 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/m ³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m ³)	LOQ (ug/m ³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20221122	C01418				41.6	0.435	20,110	0.607	0.607	0.275	0.275	ND
USSCL-PT02-S-20221122	B42751				41.6	0.435	20,116	0.607	0.607	0.274	0.274	ND
USSCL-PT03-S-20221122	B15109				41.6	0.435	20,119	0.607	0.607	0.274	0.274	ND,Rc
USSCL-PT04-S-20221122	B15565				41.6	0.435	20,121	0.607	0.607	0.274	0.274	ND
USSCL-PT05-S-20221122	B14981				41.6	0.435	20,126	0.607	0.607	0.274	0.274	ND
USSCL-PT06-S-20221122	B20992				41.6	0.435	20,121	0.607	0.607	0.274	0.274	ND
USSCL-PT07-S-20221122	B37438				41.6	0.435	20,138	0.606	0.606	0.274	0.274	ND
USSCL-PT08-S-20221122	C01666				41.6	0.435	20,163	0.605	0.605	0.274	0.274	ND
USSCL-PT09-S-20221122	B48066				41.6	0.435	20,144	0.606	0.606	0.274	0.274	ND
USSCL-PT10-S-20221122	B42761				41.6	0.435	20,162	0.605	0.605	0.274	0.274	ND
USSCL-PT10-B-20221122	B37645				41.6	0.435	20,162	0.605	0.605	0.274	0.274	ND
USSCL-PT10-D-20221122	C02034				41.6	0.435	20,161	0.606	0.606	0.274	0.274	ND
USSCL-PT11-S-20221122	B50728				41.6	0.435	20,178	0.605	0.605	0.274	0.274	ND
USSCL-PT12-S-20221122	B19821				41.6	0.435	20,180	0.605	0.605	0.274	0.274	ND

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE104-1 EPA Method 325B Analysis

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

Benzene

Sample Code	Tube ID	Conc (ug/m ³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m ³)	LOQ (ug/m ³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20221122	C01418	27.1	8.48	353	41.6	0.648	20,110	0.192	0.408	0.0601	0.128	
USSCL-PT02-S-20221122	B42751	9.47	2.97	123	41.6	0.648	20,116	0.192	0.408	0.0601	0.128	
USSCL-PT03-S-20221122	B15109	10.5	3.30	137	41.6	0.648	20,119	0.192	0.408	0.0601	0.128	Rc
USSCL-PT04-S-20221122	B15565	11.8	3.70	154	41.6	0.648	20,121	0.192	0.408	0.0601	0.128	
USSCL-PT05-S-20221122	B14981	2.98	0.934	38.9	41.6	0.648	20,126	0.192	0.408	0.0601	0.128	
USSCL-PT06-S-20221122	B20992	5.85	1.83	76.2	41.6	0.648	20,121	0.192	0.408	0.0601	0.128	
USSCL-PT07-S-20221122	B37438	2.21	0.693	28.8	41.6	0.648	20,138	0.192	0.408	0.0601	0.128	
USSCL-PT08-S-20221122	C01666	4.07	1.27	53.1	41.6	0.648	20,163	0.191	0.407	0.0600	0.128	
USSCL-PT09-S-20221122	B48066	17.4	5.44	227	41.6	0.648	20,144	0.192	0.408	0.0600	0.128	
USSCL-PT10-S-20221122	B42761	25.6	8.01	334	41.6	0.648	20,162	0.191	0.407	0.0600	0.128	
USSCL-PT10-B-20221122	B37645				41.6	0.648	20,162	0.191	0.407	0.0600	0.128	ND
USSCL-PT10-D-20221122	C02034	25.7	8.05	336	41.6	0.648	20,161	0.192	0.407	0.0600	0.128	
USSCL-PT11-S-20221122	B50728	30.7	9.61	401	41.6	0.648	20,178	0.191	0.407	0.0599	0.127	
USSCL-PT12-S-20221122	B19821	12.8	4.01	167	41.6	0.648	20,180	0.191	0.407	0.0599	0.127	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE104-1 EPA Method 325B Analysis

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

Ethylbenzene

Sample Code	Tube ID	Conc (ug/m ³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m ³)	LOQ (ug/m ³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20221122	C01418				41.6	0.445	20,110	0.611	0.611	0.141	0.141	ND
USSCL-PT02-S-20221122	B42751				41.6	0.445	20,116	0.611	0.611	0.141	0.141	ND
USSCL-PT03-S-20221122	B15109				41.6	0.445	20,119	0.611	0.611	0.141	0.141	ND,Rc
USSCL-PT04-S-20221122	B15565				41.6	0.445	20,121	0.611	0.611	0.141	0.141	ND
USSCL-PT05-S-20221122	B14981				41.6	0.445	20,126	0.611	0.611	0.141	0.141	ND
USSCL-PT06-S-20221122	B20992				41.6	0.445	20,121	0.611	0.611	0.141	0.141	ND
USSCL-PT07-S-20221122	B37438				41.6	0.445	20,138	0.611	0.611	0.141	0.141	ND
USSCL-PT08-S-20221122	C01666				41.6	0.445	20,163	0.610	0.610	0.141	0.141	ND
USSCL-PT09-S-20221122	B48066				41.6	0.445	20,144	0.610	0.610	0.141	0.141	ND
USSCL-PT10-S-20221122	B42761				41.6	0.445	20,162	0.610	0.610	0.141	0.141	ND
USSCL-PT10-B-20221122	B37645				41.6	0.445	20,162	0.610	0.610	0.141	0.141	ND
USSCL-PT10-D-20221122	C02034				41.6	0.445	20,161	0.610	0.610	0.141	0.141	ND
USSCL-PT11-S-20221122	B50728				41.6	0.445	20,178	0.609	0.609	0.140	0.140	ND
USSCL-PT12-S-20221122	B19821				41.6	0.445	20,180	0.609	0.609	0.140	0.140	ND

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE104-1 EPA Method 325B Analysis

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

m-/p-Xylenes

Sample Code	Tube ID	Conc (ug/m ³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m ³)	LOQ (ug/m ³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20221122	C01418	0.691	0.159	6.18	41.6	0.445	20,110	0.615	0.615	0.142	0.142	
USSCL-PT02-S-20221122	B42751	0.685	0.158	6.13	41.6	0.445	20,116	0.615	0.615	0.142	0.142	
USSCL-PT03-S-20221122	B15109	0.707	0.163	6.32	41.6	0.445	20,119	0.615	0.615	0.142	0.142	Rc
USSCL-PT04-S-20221122	B15565	1.17	0.270	10.5	41.6	0.445	20,121	0.615	0.615	0.142	0.142	
USSCL-PT05-S-20221122	B14981				41.6	0.445	20,126	0.615	0.615	0.142	0.142	ND
USSCL-PT06-S-20221122	B20992	0.714	0.165	6.39	41.6	0.445	20,121	0.615	0.615	0.142	0.142	
USSCL-PT07-S-20221122	B37438				41.6	0.445	20,138	0.614	0.614	0.142	0.142	ND
USSCL-PT08-S-20221122	C01666	0.627	0.144	5.62	41.6	0.445	20,163	0.614	0.614	0.141	0.141	
USSCL-PT09-S-20221122	B48066	2.10	0.484	18.8	41.6	0.445	20,144	0.614	0.614	0.142	0.142	
USSCL-PT10-S-20221122	B42761	1.22	0.280	10.9	41.6	0.445	20,162	0.614	0.614	0.141	0.141	
USSCL-PT10-B-20221122	B37645				41.6	0.445	20,162	0.614	0.614	0.141	0.141	ND
USSCL-PT10-D-20221122	C02034	1.22	0.282	11.0	41.6	0.445	20,161	0.614	0.614	0.141	0.141	
USSCL-PT11-S-20221122	B50728	1.06	0.243	9.48	41.6	0.445	20,178	0.613	0.613	0.141	0.141	
USSCL-PT12-S-20221122	B19821	0.930	0.214	8.34	41.6	0.445	20,180	0.613	0.613	0.141	0.141	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE104-1 EPA Method 325B Analysis

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

o-Xylene

Sample Code	Tube ID	Conc (ug/m ³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m ³)	LOQ (ug/m ³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20221122	C01418				41.6	0.445	20,110	0.619	0.619	0.143	0.143	ND
USSCL-PT02-S-20221122	B42751				41.6	0.445	20,116	0.619	0.619	0.143	0.143	ND
USSCL-PT03-S-20221122	B15109				41.6	0.445	20,119	0.619	0.619	0.143	0.143	ND,Rc
USSCL-PT04-S-20221122	B15565				41.6	0.445	20,121	0.619	0.619	0.143	0.143	ND
USSCL-PT05-S-20221122	B14981				41.6	0.445	20,126	0.618	0.618	0.143	0.143	ND
USSCL-PT06-S-20221122	B20992				41.6	0.445	20,121	0.619	0.619	0.143	0.143	ND
USSCL-PT07-S-20221122	B37438				41.6	0.445	20,138	0.618	0.618	0.142	0.142	ND
USSCL-PT08-S-20221122	C01666				41.6	0.445	20,163	0.617	0.617	0.142	0.142	ND
USSCL-PT09-S-20221122	B48066	0.720	0.166	6.45	41.6	0.445	20,144	0.618	0.618	0.142	0.142	
USSCL-PT10-S-20221122	B42761				41.6	0.445	20,162	0.617	0.617	0.142	0.142	ND
USSCL-PT10-B-20221122	B37645				41.6	0.445	20,162	0.617	0.617	0.142	0.142	ND
USSCL-PT10-D-20221122	C02034				41.6	0.445	20,161	0.617	0.617	0.142	0.142	ND
USSCL-PT11-S-20221122	B50728				41.6	0.445	20,178	0.617	0.617	0.142	0.142	ND
USSCL-PT12-S-20221122	B19821				41.6	0.445	20,180	0.617	0.617	0.142	0.142	ND

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE104-1 EPA Method 325B Analysis

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

Toluene

Sample Code	Tube ID	Conc (ug/m ³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m ³)	LOQ (ug/m ³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20221122	C01418	3.22	0.855	32.5	41.6	0.503	20,110	0.247	0.546	0.0657	0.145	
USSCL-PT02-S-20221122	B42751	2.64	0.700	26.7	41.6	0.503	20,116	0.247	0.546	0.0657	0.145	
USSCL-PT03-S-20221122	B15109	3.19	0.848	32.3	41.6	0.503	20,119	0.247	0.546	0.0657	0.145	Rc
USSCL-PT04-S-20221122	B15565	5.17	1.37	52.2	41.6	0.503	20,121	0.247	0.546	0.0656	0.145	
USSCL-PT05-S-20221122	B14981	3.23	0.858	32.7	41.6	0.503	20,126	0.247	0.546	0.0656	0.145	
USSCL-PT06-S-20221122	B20992	6.08	1.61	61.5	41.6	0.503	20,121	0.247	0.546	0.0656	0.145	
USSCL-PT07-S-20221122	B37438	6.33	1.68	64.1	41.6	0.503	20,138	0.247	0.546	0.0656	0.145	
USSCL-PT08-S-20221122	C01666	6.23	1.65	63.1	41.6	0.503	20,163	0.247	0.545	0.0655	0.145	
USSCL-PT09-S-20221122	B48066	9.03	2.40	91.4	41.6	0.503	20,144	0.247	0.546	0.0656	0.145	
USSCL-PT10-S-20221122	B42761	8.69	2.31	88.0	41.6	0.503	20,162	0.247	0.545	0.0655	0.145	
USSCL-PT10-B-20221122	B37645				41.6	0.503	20,162	0.247	0.545	0.0655	0.145	ND
USSCL-PT10-D-20221122	C02034	8.39	2.23	85.0	41.6	0.503	20,161	0.247	0.545	0.0655	0.145	
USSCL-PT11-S-20221122	B50728	7.79	2.07	79.0	41.6	0.503	20,178	0.247	0.545	0.0655	0.145	
USSCL-PT12-S-20221122	B19821	4.36	1.16	44.2	41.6	0.503	20,180	0.247	0.545	0.0655	0.145	

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

Rc: Recollection analysis

QC

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE104-1 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-20221122	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass
Duplicates (difference)	USSCL-PT10-D-20221122		Pass	0.49%	Pass		Pass	0.57%	Pass		Pass	3.5%	Pass

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	All4, Inc.
Site	US Steel Corp - Clairton Works ICR
Project	00701-0002.00
Report #	2022EE104

Custody	<p>Daniel Simpson of Enthalpy Analytical, LLC received the thermal desorption sample tubes on 12/7/2022 after being relinquished by All4, Inc. The tubes were received in good condition at a temperature of 17.8 °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 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>
Chromatographic Conditions	A copy of the acquisition method (M325B-TD-CRYO9.M) is not included in this report but may be available upon request.
Calibration	<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 any of 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>
QC Notes	<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>All duplicate samples met the 30% difference criterion specified by the method.</p>



Enthalpy Analytical Narrative Summary (continued)

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





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

Page (x of y)

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☒ 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: dsnare@all4inc.com	<input type="checkbox"/> Sample Period w/ Snow or Melt
Zip: 15025	Telephone #: (410) 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)
PT01-221122-S	C01418	S	22/11/22	8:53 AM	22/12/06	8:03 AM	EM	
PT02-221122-S	B42751	S	22/11/22	9:00 AM	22/12/06	8:16 AM	EM	
PT03-221122-S	B15109	S	22/11/22	9:05 AM	22/12/06	8:24 AM	EM	
PT04-221122-S	B15565	S	22/11/22	9:10 AM	22/12/06	8:31 AM	EM	
PT05-221122-S	B14981	S	22/11/22	9:15 AM	22/12/06	8:41 AM	EM	
PT06-221122-S	B20992	S	22/11/22	9:28 AM	22/12/06	8:49 AM	EM	
PT07-221122-S	B37438	S	22/11/22	9:23 AM	22/12/06	9:01 AM	EM	
PT08-221122-S	C01666	S	22/11/22	9:35 AM	22/12/06	9:05 AM 9:38 AM	EM	

Collected By: Print Name and Signature

Evan M's

[Signature]

Relinquished to Shipper: Print Name and Signature

Evan M's

[Signature]

Relinquished Date

22/12/06

Relinquished Time

1:57

Received by: Print Name and Signature

Daniel Simpson

[Signature]

Receipt Date

12/7/22-10:00

Custody Seal Intact (Yes or No)

Y

Sample Condition Upon Receipt:

Good

Custody Seal # →

22C06115

Analysis Required:

Comments:

IP: 2.9
TB: 17.8 } Flake 6



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: <input type="checkbox"/> Rain During Deployment / Retrieval <input type="checkbox"/> Sample Period w/ Continuous Rain <input type="checkbox"/> Sample Period w/ Snow or Melt <input type="checkbox"/> Other (Please explain in Notes)
Site Address: 400 State Street	Project Number: 00701-0002.00	
City: Clairton	Project Manager: Dustin Snare	
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	Sampler Initials	Avg. Ambient Temp. (°F)
PT09-221122-S	B48066	S	22/11/22	9:41 AM	22/12/06	9:25 AM	EM	
PT10-221122-S	B42761	S	22/11/22	9:51 AM	22/12/06	9:53 AM	EM	
PT10-221122-FB	B37645	FB	22/11/22	9:51 AM	22/12/06	9:53 AM	EM	
PT10-221122-D	C02034	D	22/11/22	9:52 AM	22/12/06	9:53 AM	EM	
PT11-221122-S	B50728	S	22/11/22	9:55 AM	22/12/06	10:13 AM	EM	
PT12-221122-S	B19821	S	22/11/22	9:59 AM	22/12/06	10:19 AM	EM	

Collected By: Print Name and Signature

/

Relinquished to Shipper: Print Name and Signature

Relinquished Date

Relinquished Time

① Daniel Simpson

/

Received by: Print Name and Signature

Receipt Date

Custody Seal Intact (Yes or No)

Daniel Simpson

/ Daniel Simpson

12/7/22 - 10:00

Y

Sample Condition Upon Receipt:

Good

Custody Seal # →

22C06115

Analysis Required:

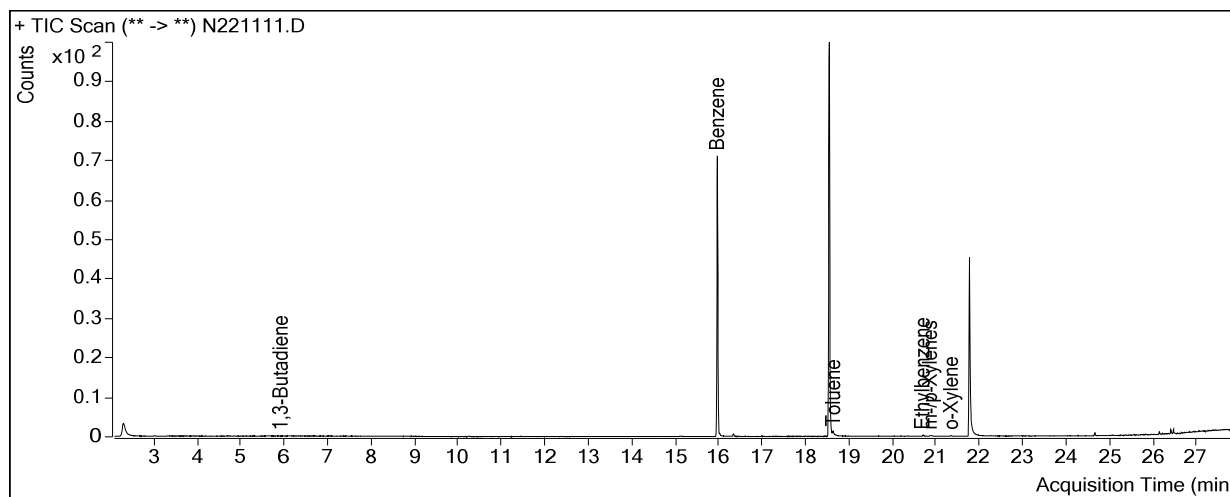
Comments:

① EE DOS 12/7/22 IP: 2.9
TB: 17.8 > Flake 6

Sample Chromatograms



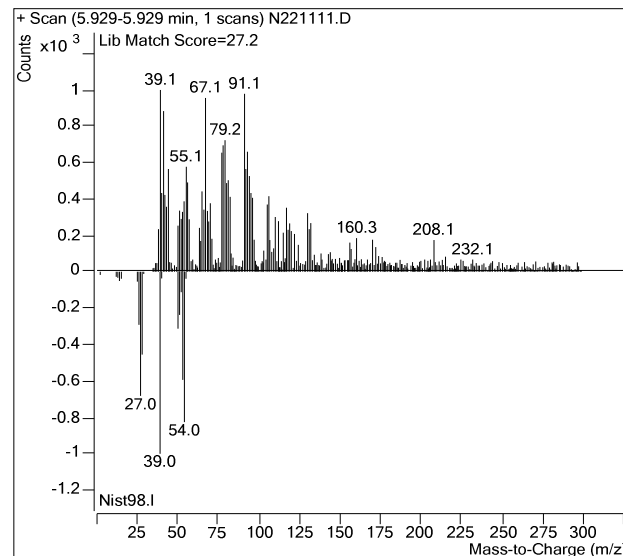
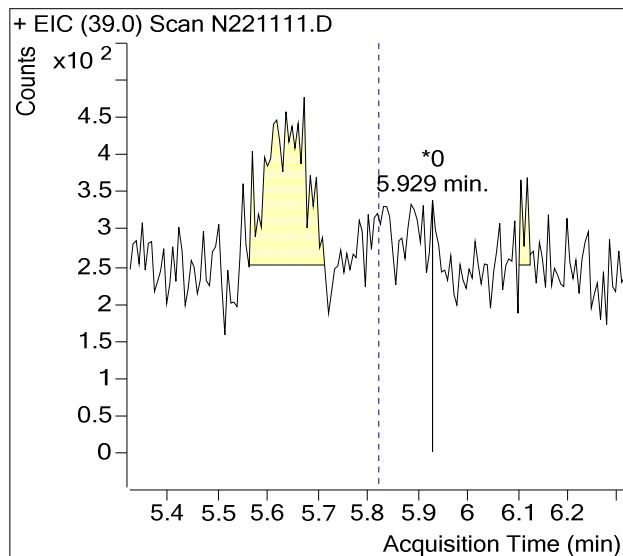
Sample Name : 2022EE104 Method Blank
Sample Info : B34921
Data File : N221111.D
Acquisition Date : 2022-12-08 21:47:02
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	0	m
Benzene-d6 (IS)	15.97	1,259,576	
Benzene	16.03	15,765	m
Toluene-d8 (IS)	18.55	1,415,642	
Toluene	18.64	13,034	
Ethylbenzene	20.70	5,005	
m-/p-Xylenes	20.89	4,288	
o-Xylene	21.32	3,322	

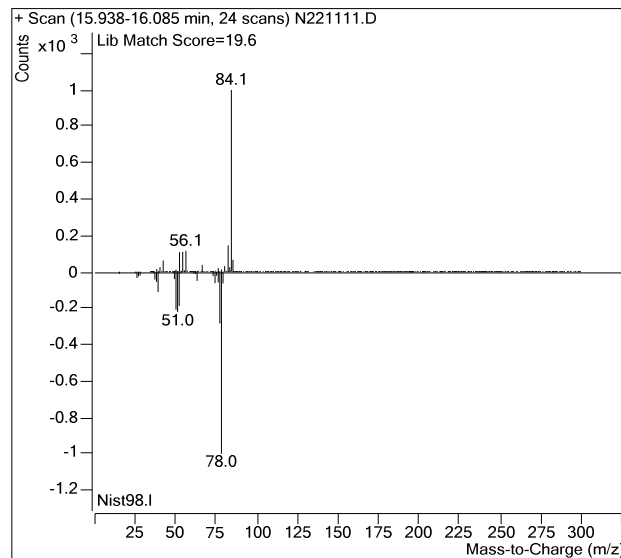
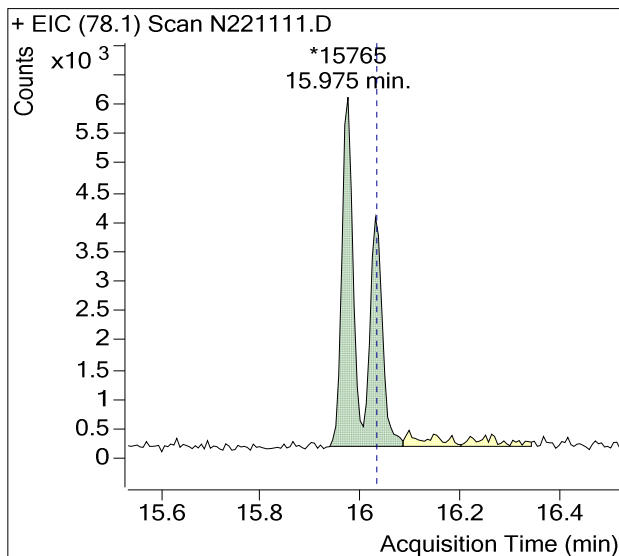
(m)=Manual Integration

1,3-Butadiene

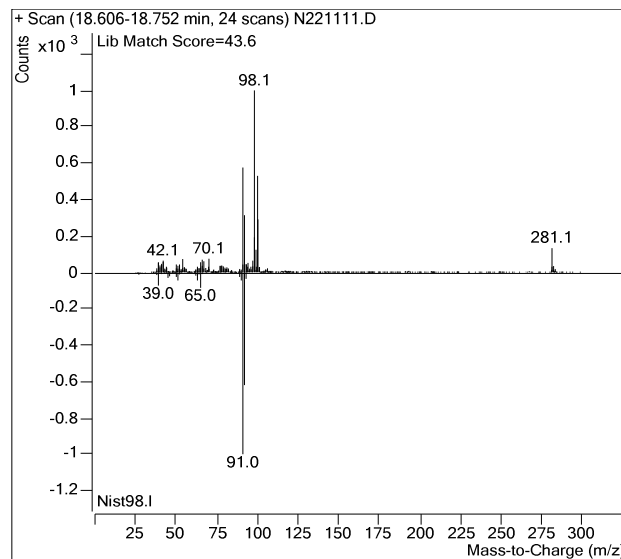
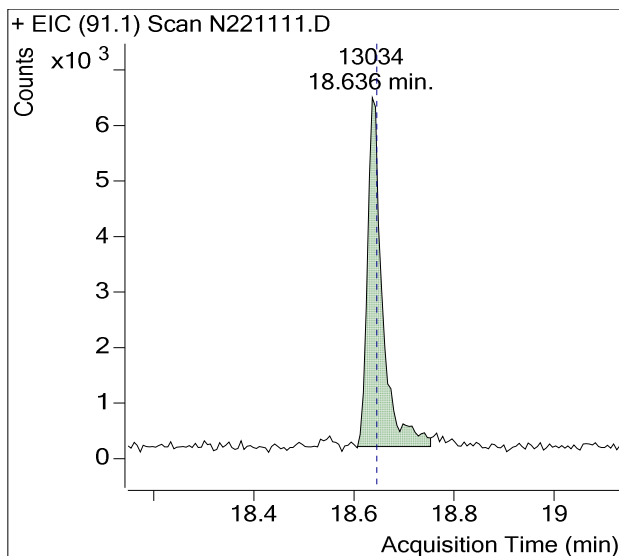


Sample Name : 2022EE104 Method Blank
Sample Info : B34921
Data File : N221111.D
Acquisition Date : 2022-12-08 21:47:02
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

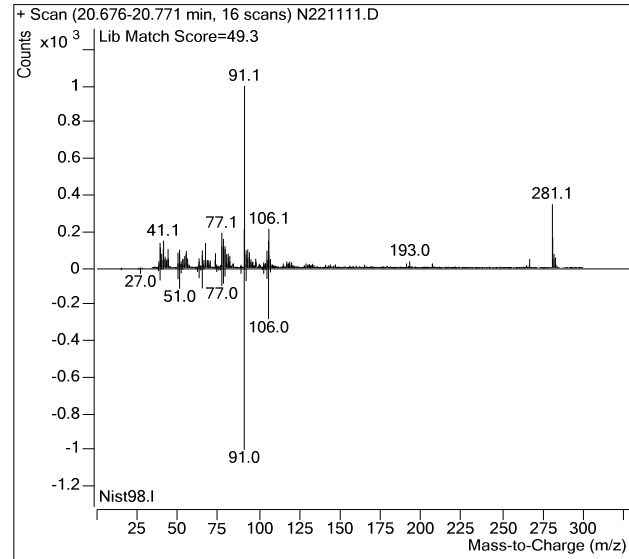
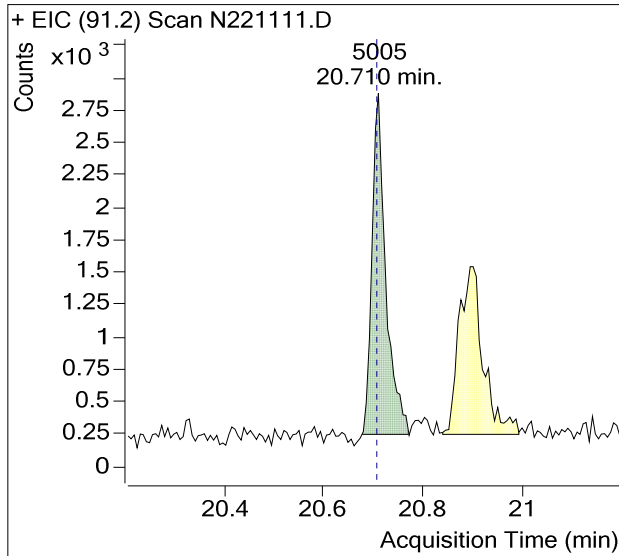


Toluene

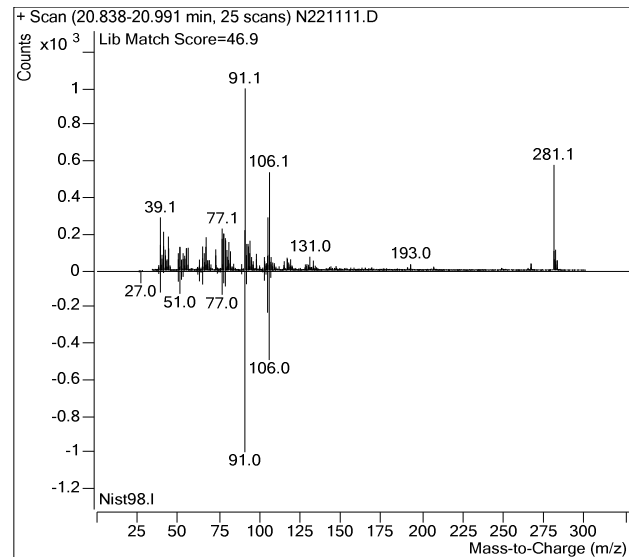
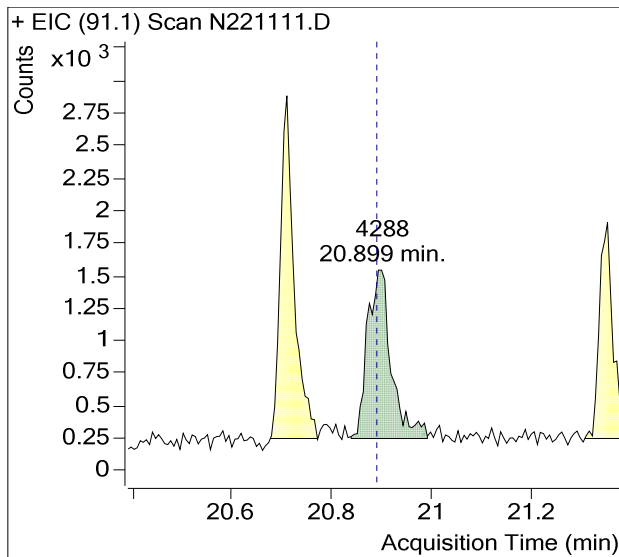


Sample Name : 2022EE104 Method Blank
Sample Info : B34921
Data File : N221111.D
Acquisition Date : 2022-12-08 21:47:02
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

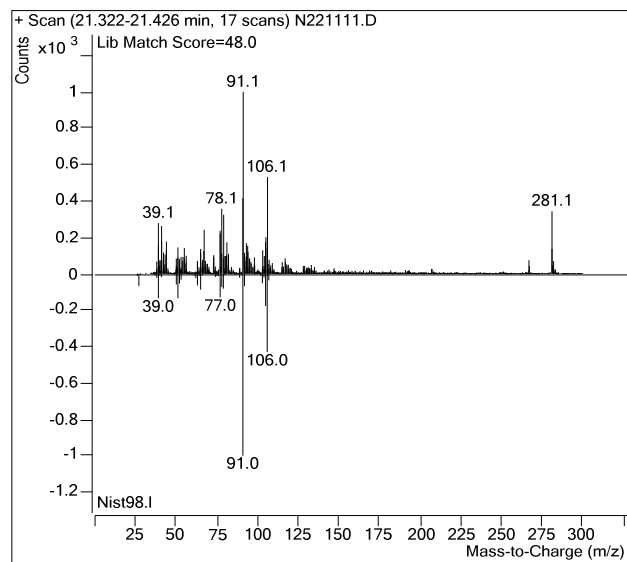
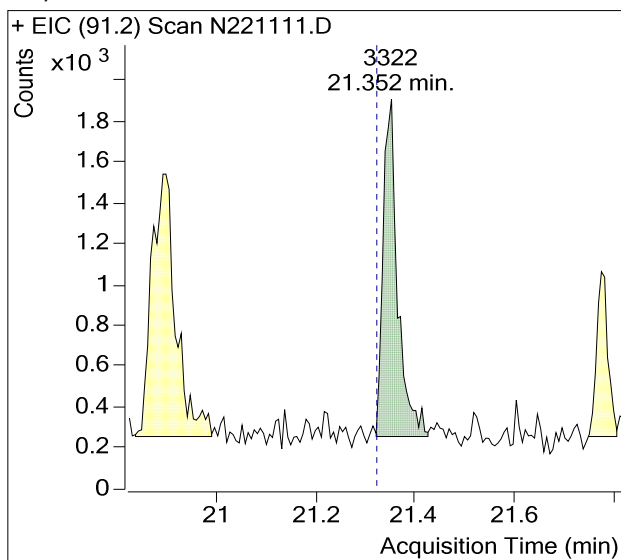


m-/p-Xylenes

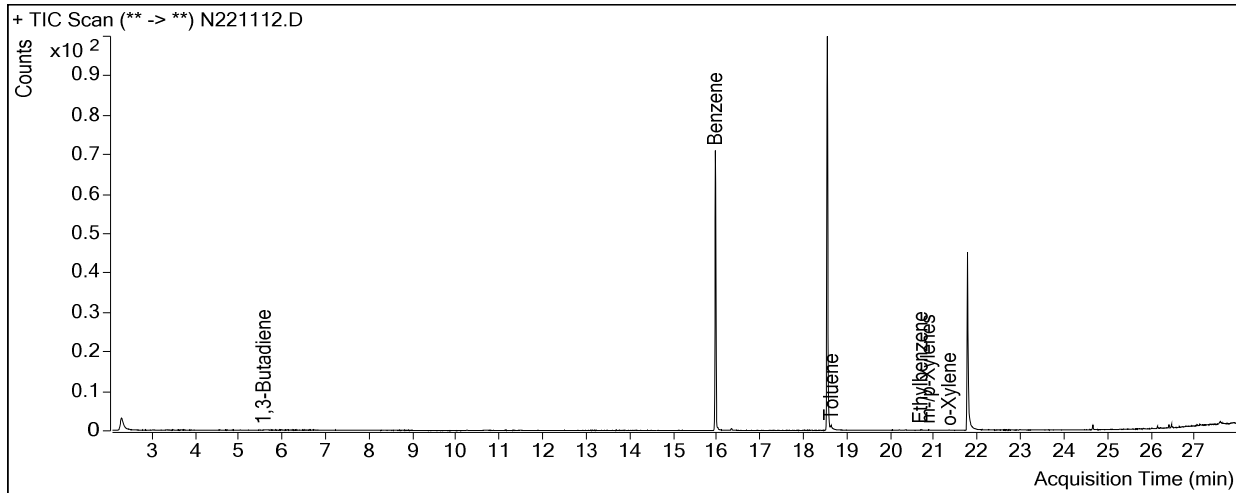


Sample Name : 2022EE104 Method Blank
Sample Info : B34921
Data File : N221111.D
Acquisition Date : 2022-12-08 21:47:02
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



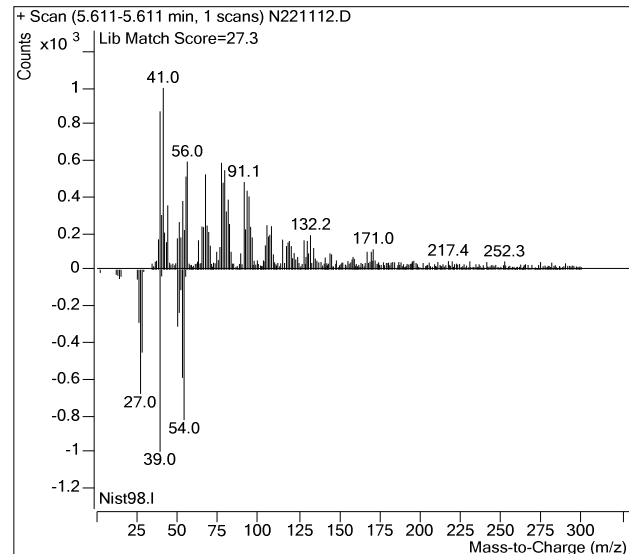
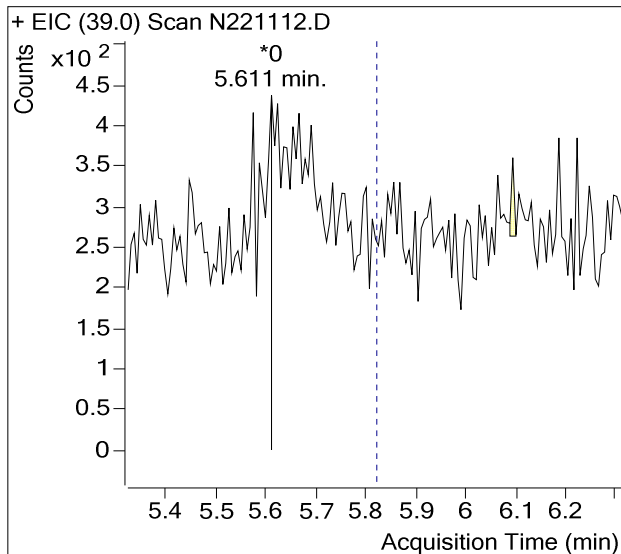
Sample Name : USSCL-PT10-B-20221122
Sample Info : B37645
Data File : N221112.D
Acquisition Date : 2022-12-08 22:26:48
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	0	m
Benzene-d6 (IS)	15.97	1,266,141	
Benzene	16.03	14,577	m
Toluene-d8 (IS)	18.55	1,431,394	
Toluene	18.64	10,755	
Ethylbenzene	20.70	2,153	
m-/p-Xylenes	20.89	1,584	
o-Xylene	21.32	957	

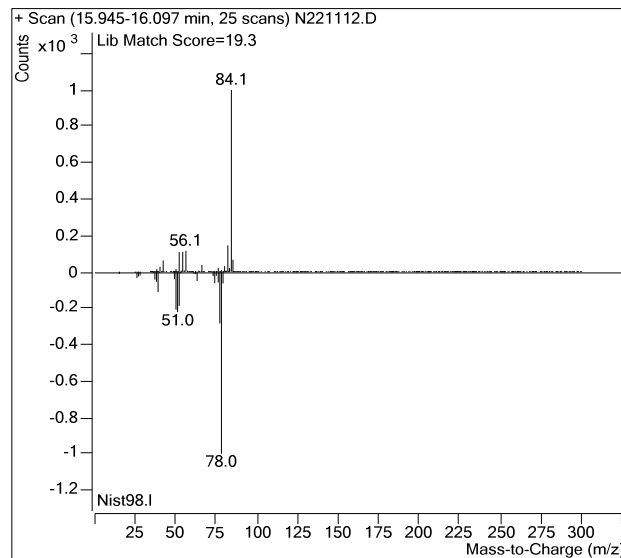
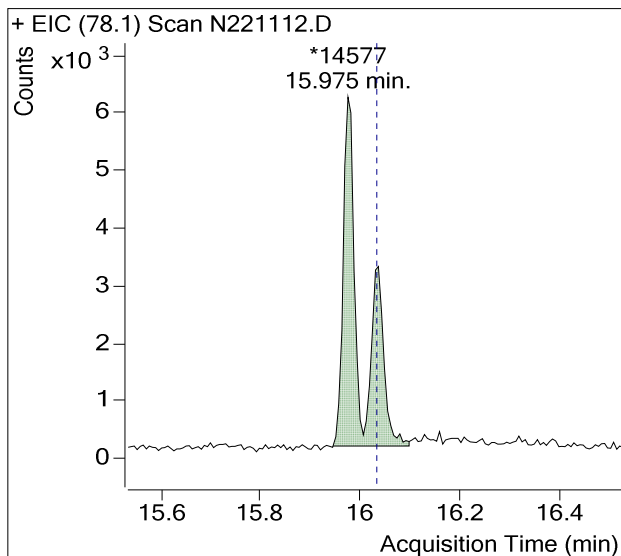
(m)=Manual Integration

1,3-Butadiene

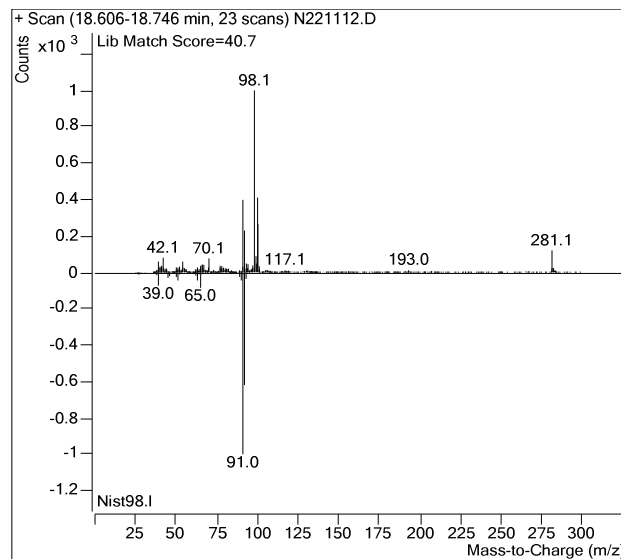
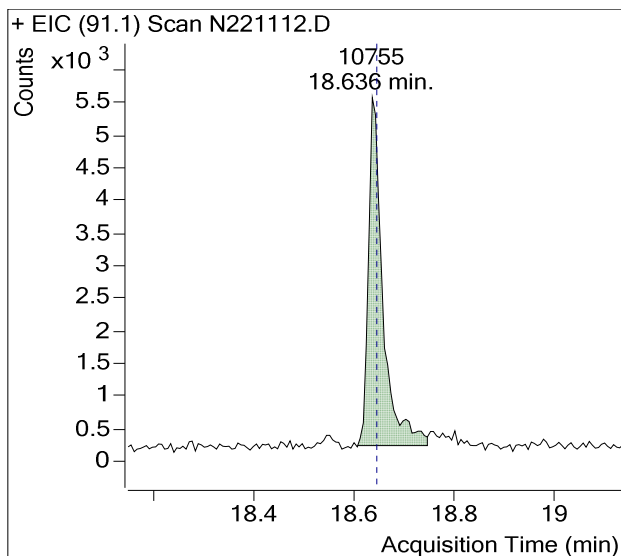


Sample Name : USSCL-PT10-B-20221122
Sample Info : B37645
Data File : N221112.D
Acquisition Date : 2022-12-08 22:26:48
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

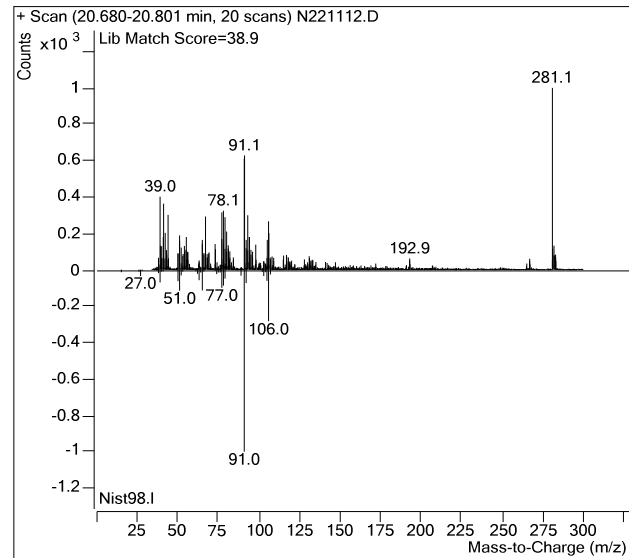
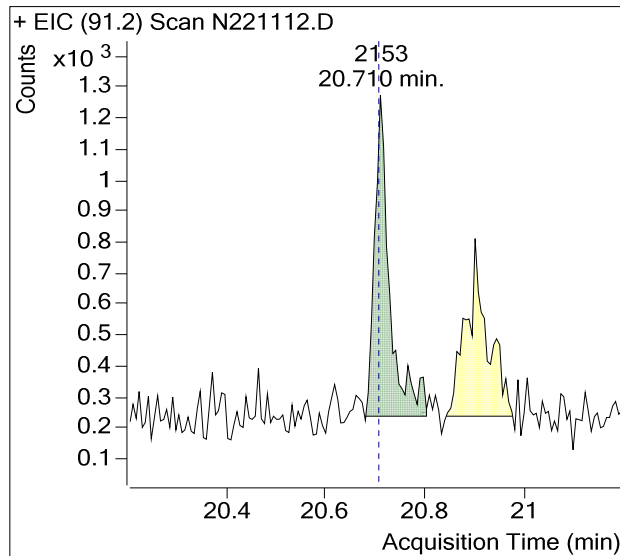


Toluene

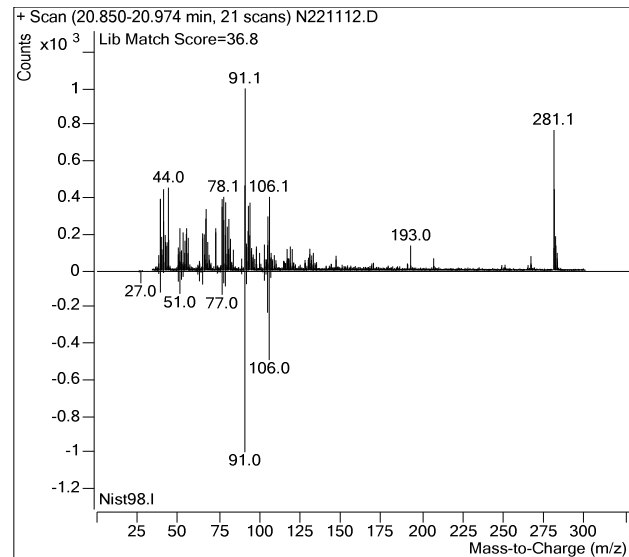
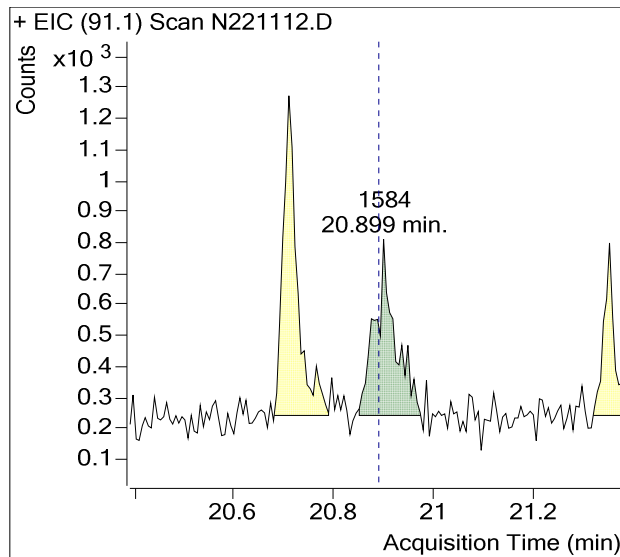


Sample Name : USSCL-PT10-B-20221122
Sample Info : B37645
Data File : N221112.D
Acquisition Date : 2022-12-08 22:26:48
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

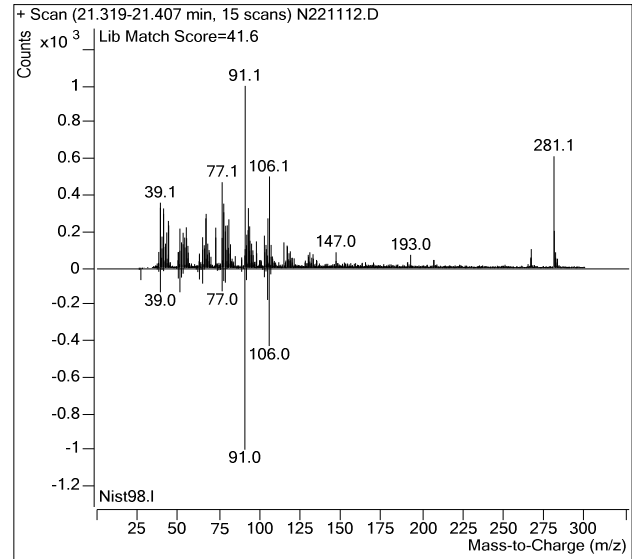
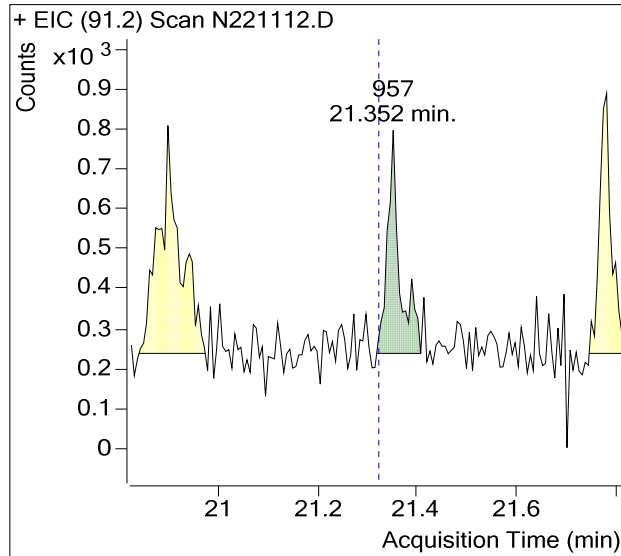


m-/p-Xylenes

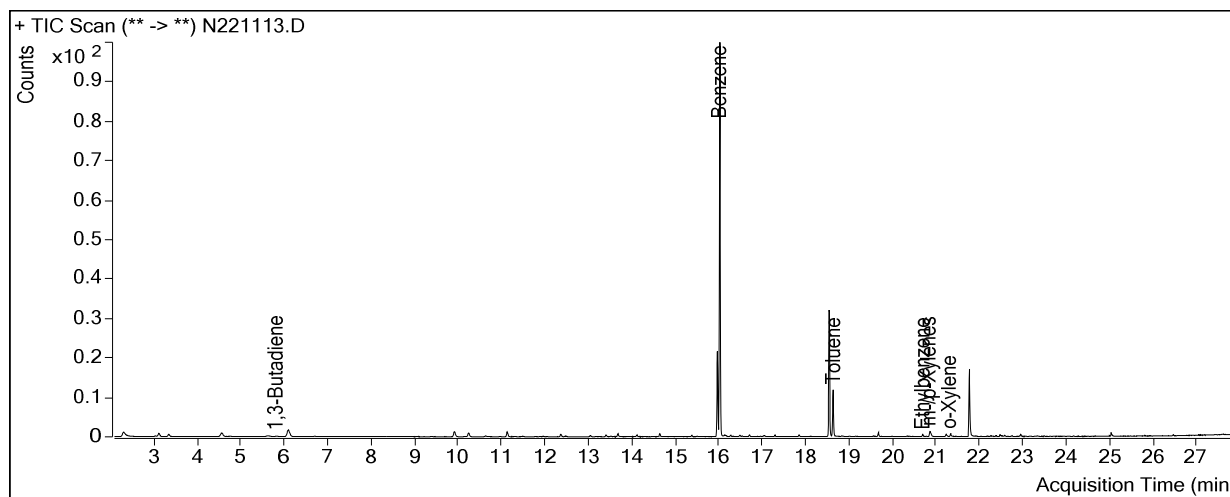


Sample Name : USSCL-PT10-B-20221122
Sample Info : B37645
Data File : N221112.D
Acquisition Date : 2022-12-08 22:26:48
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



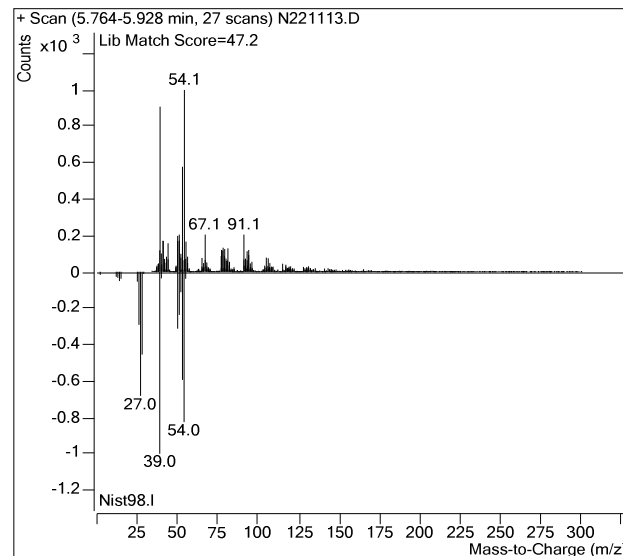
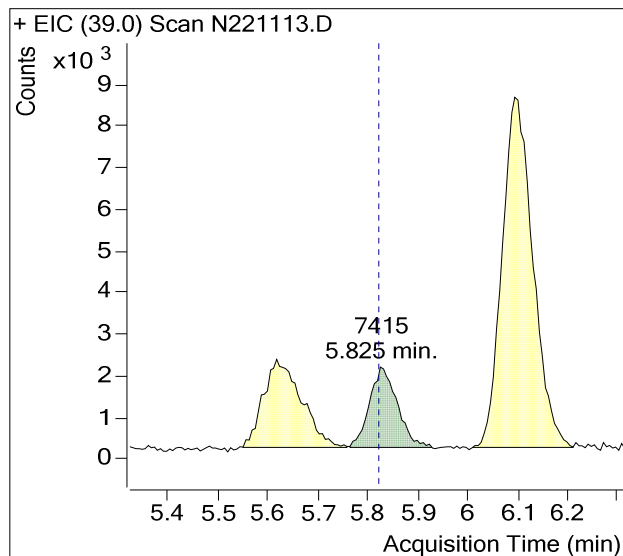
Sample Name : USSCL-PT01-S-20221122
Sample Info : C01418
Data File : N221113.D
Acquisition Date : 2022-12-08 23:06:36
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	7,415	
Benzene-d6 (IS)	15.97	1,287,936	
Benzene	16.03	5,195,721	
Toluene-d8 (IS)	18.55	1,466,315	
Toluene	18.64	572,159	
Ethylbenzene	20.70	33,775	
m-/p-Xylenes	20.89	85,317	
o-Xylene	21.32	31,609	

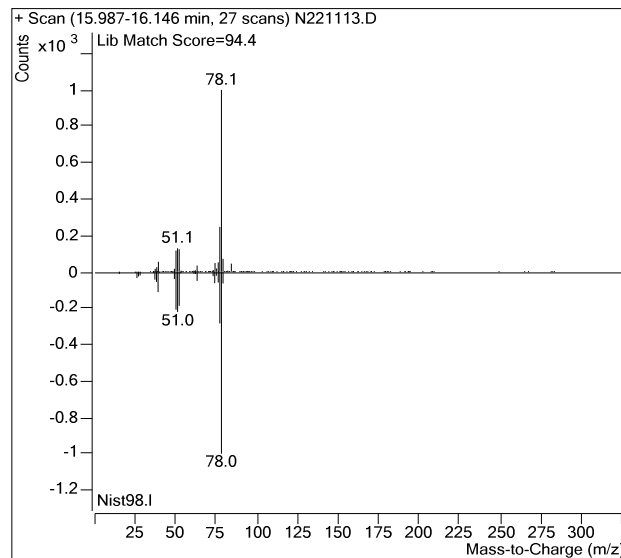
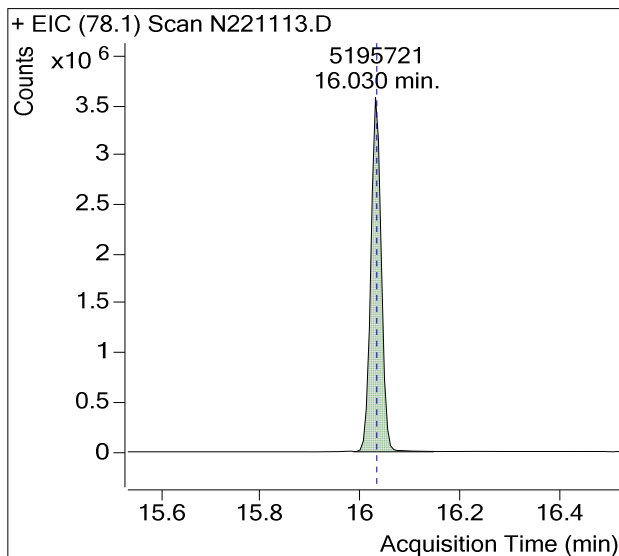
(m)=Manual Integration

1,3-Butadiene

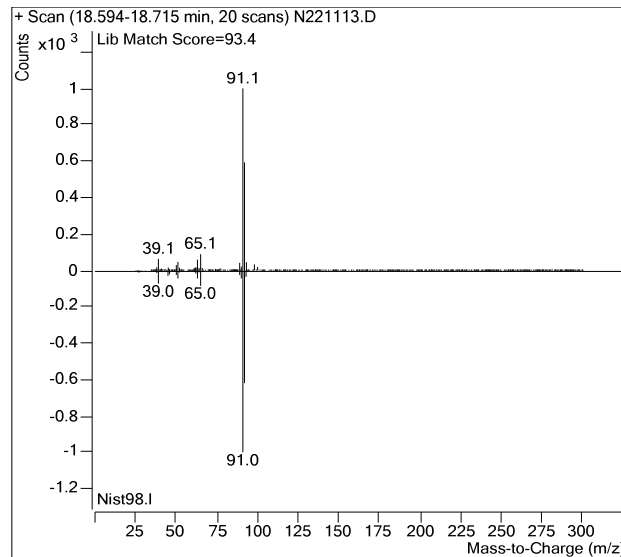
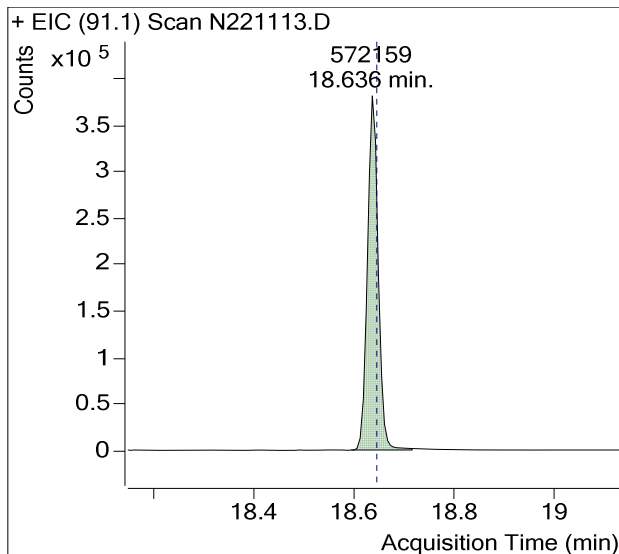


Sample Name : USSCL-PT01-S-20221122
Sample Info : C01418
Data File : N221113.D
Acquisition Date : 2022-12-08 23:06:36
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

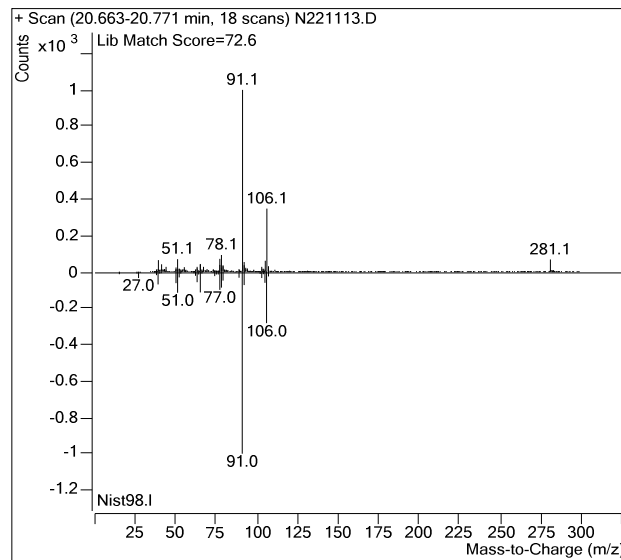
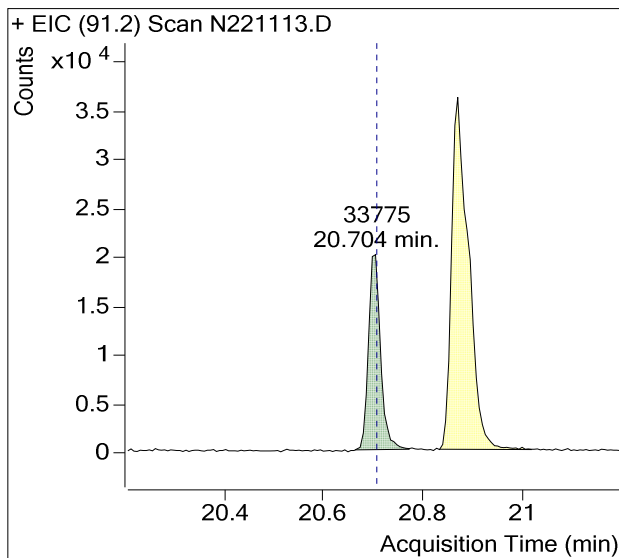


Toluene

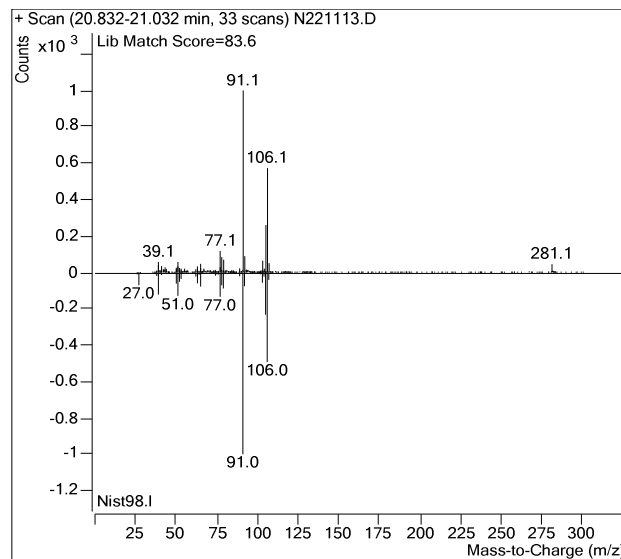
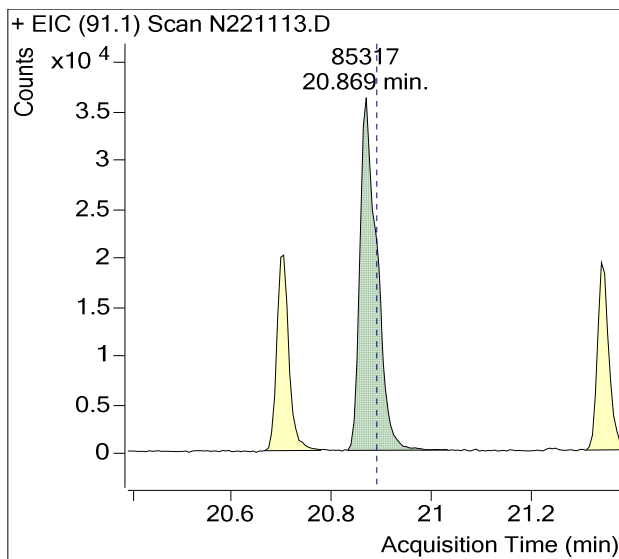


Sample Name : USSCL-PT01-S-20221122
Sample Info : C01418
Data File : N221113.D
Acquisition Date : 2022-12-08 23:06:36
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

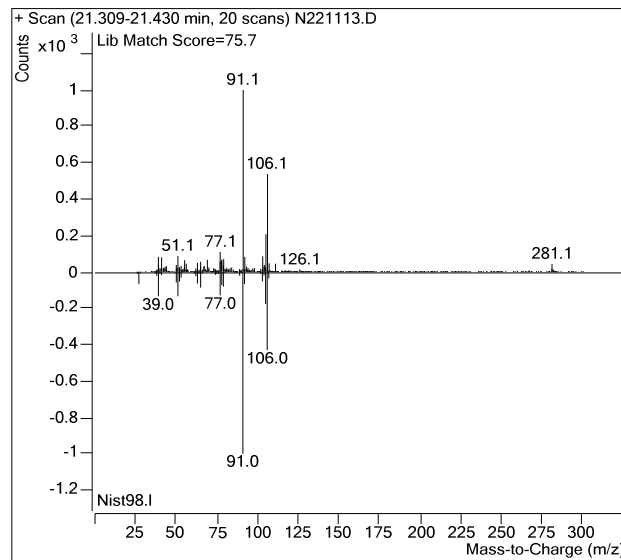
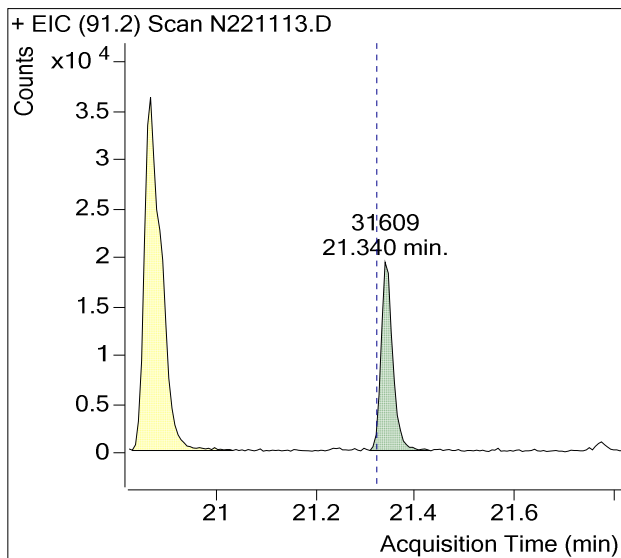


m-/p-Xylenes

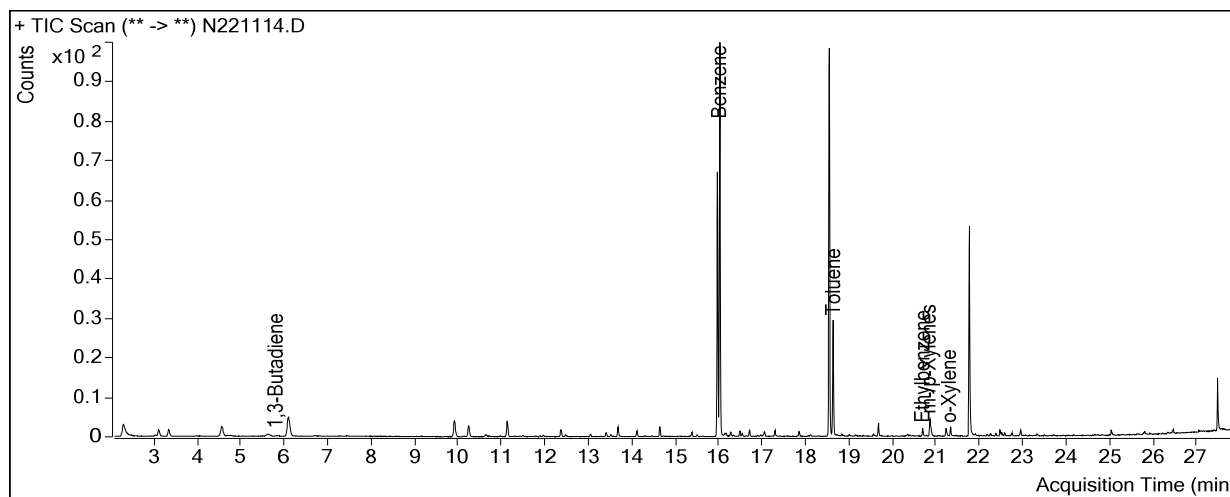


Sample Name : USSCL-PT01-S-20221122
Sample Info : C01418
Data File : N221113.D
Acquisition Date : 2022-12-08 23:06:36
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



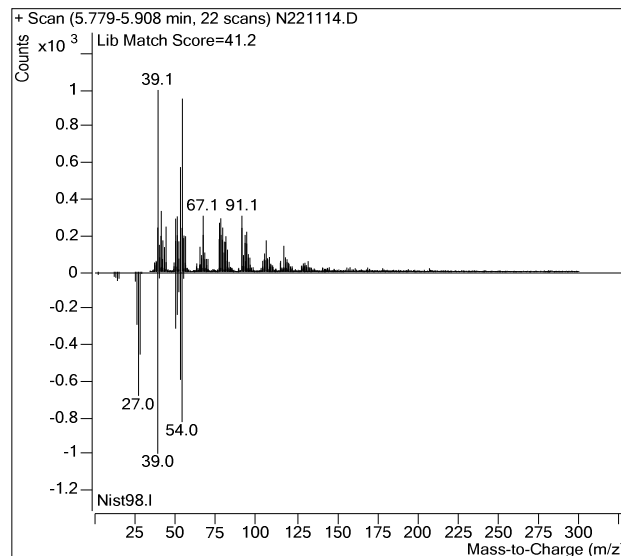
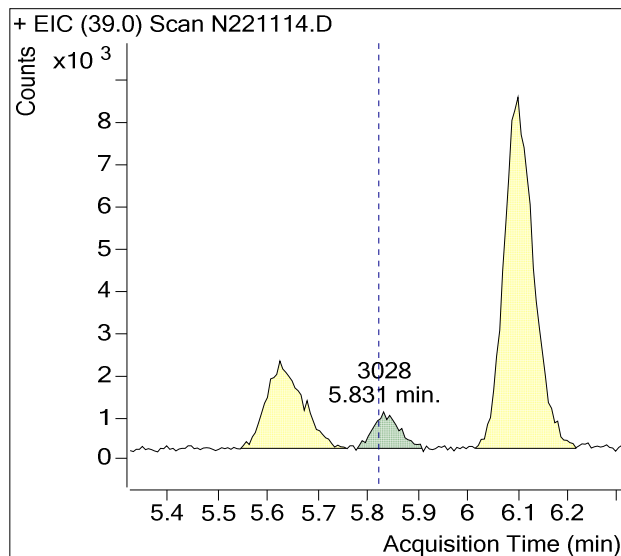
Sample Name : USSCL-PT02-S-20221122
Sample Info : B42751
Data File : N221114.D
Acquisition Date : 2022-12-08 23:46:22
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	3,028	
Benzene-d6 (IS)	15.97	1,298,531	
Benzene	16.03	1,833,594	
Toluene-d8 (IS)	18.55	1,467,731	
Toluene	18.64	469,354	
Ethylbenzene	20.70	35,176	
m-/p-Xylenes	20.89	84,669	
o-Xylene	21.32	31,246	

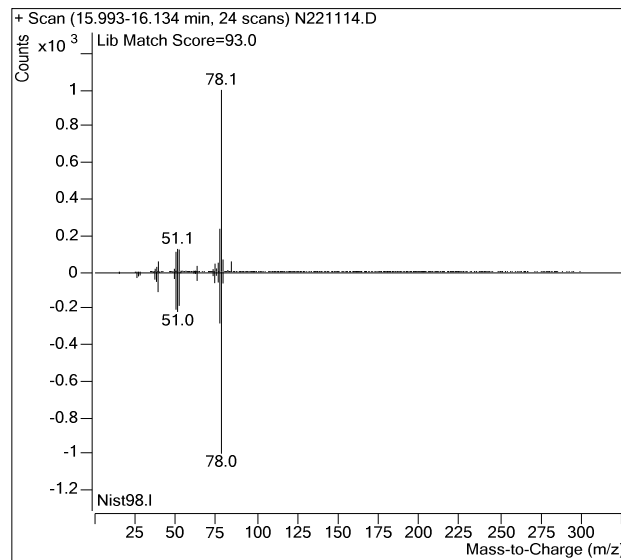
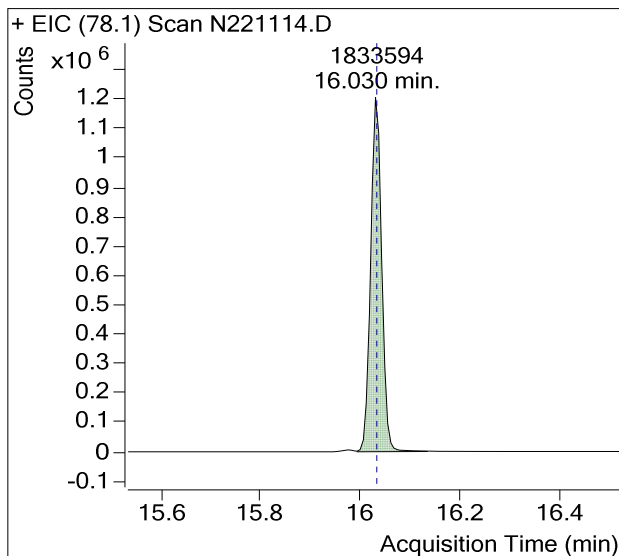
(m)=Manual Integration

1,3-Butadiene

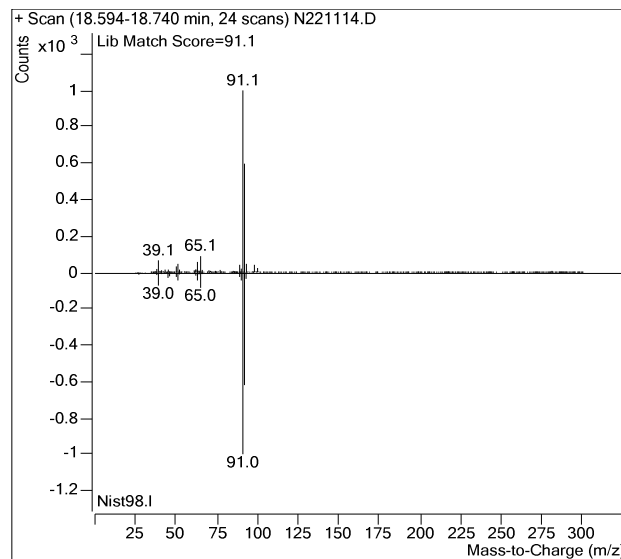
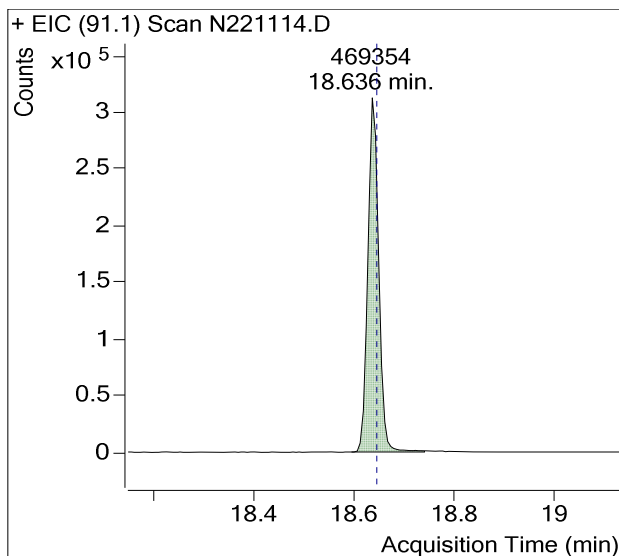


Sample Name : USSCL-PT02-S-20221122
Sample Info : B42751
Data File : N221114.D
Acquisition Date : 2022-12-08 23:46:22
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

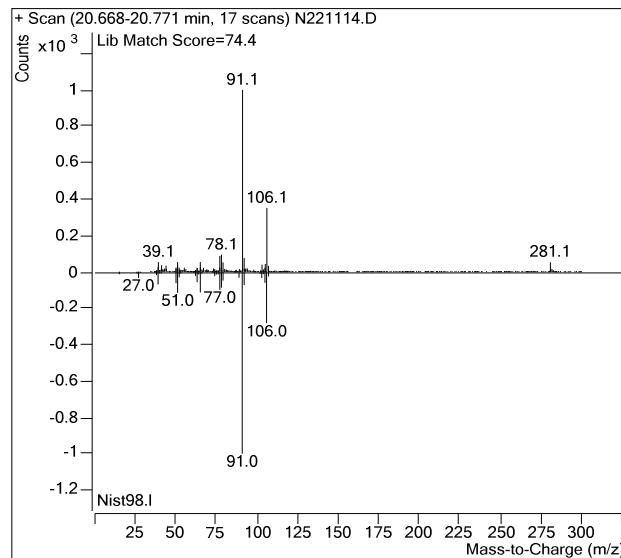
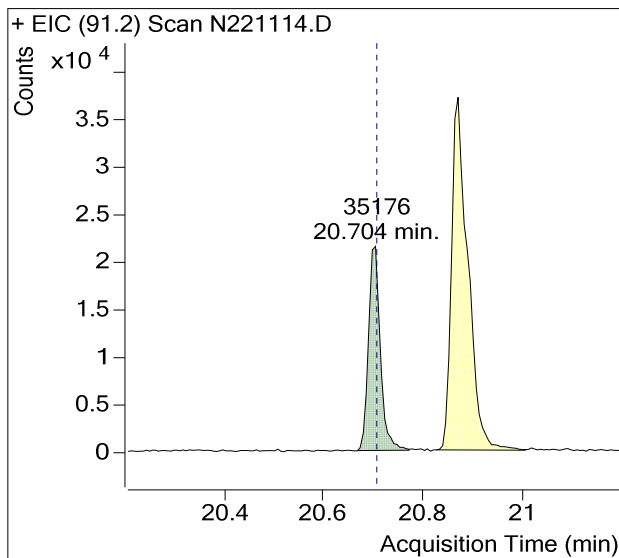


Toluene

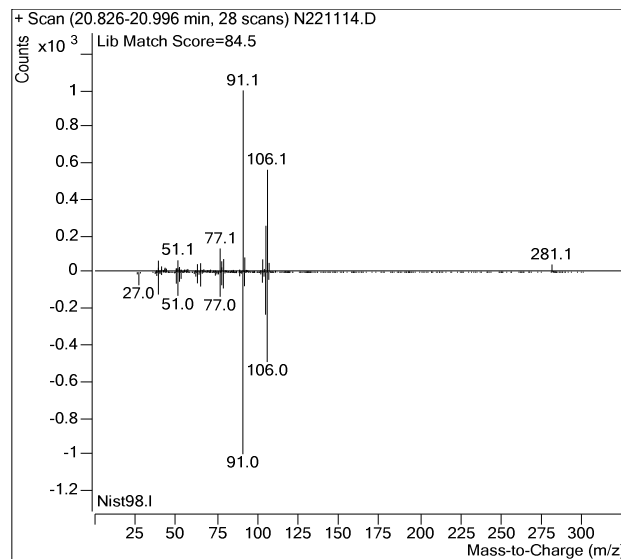
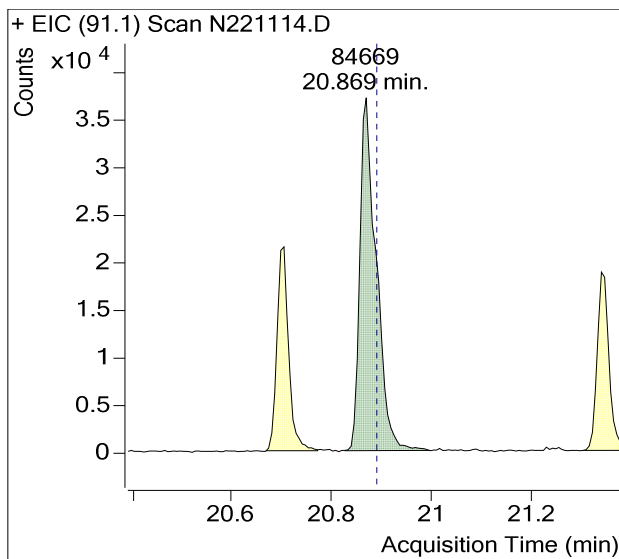


Sample Name : USSCL-PT02-S-20221122
Sample Info : B42751
Data File : N221114.D
Acquisition Date : 2022-12-08 23:46:22
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

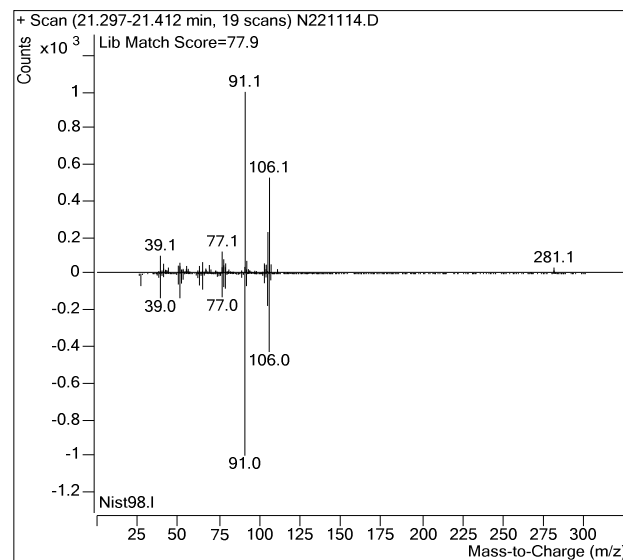
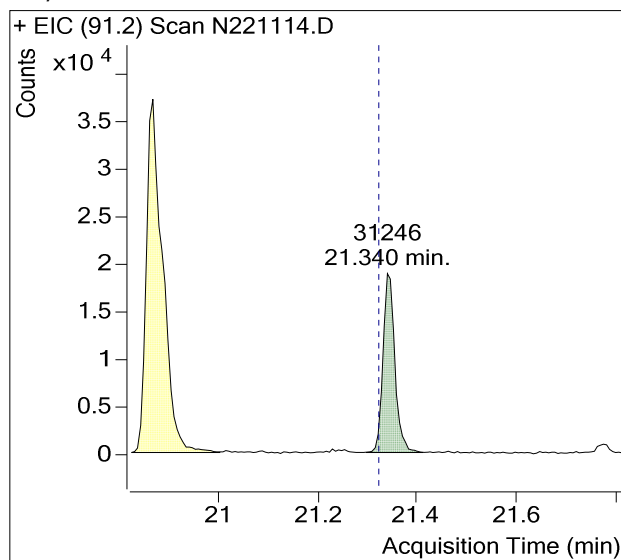


m-/p-Xylenes

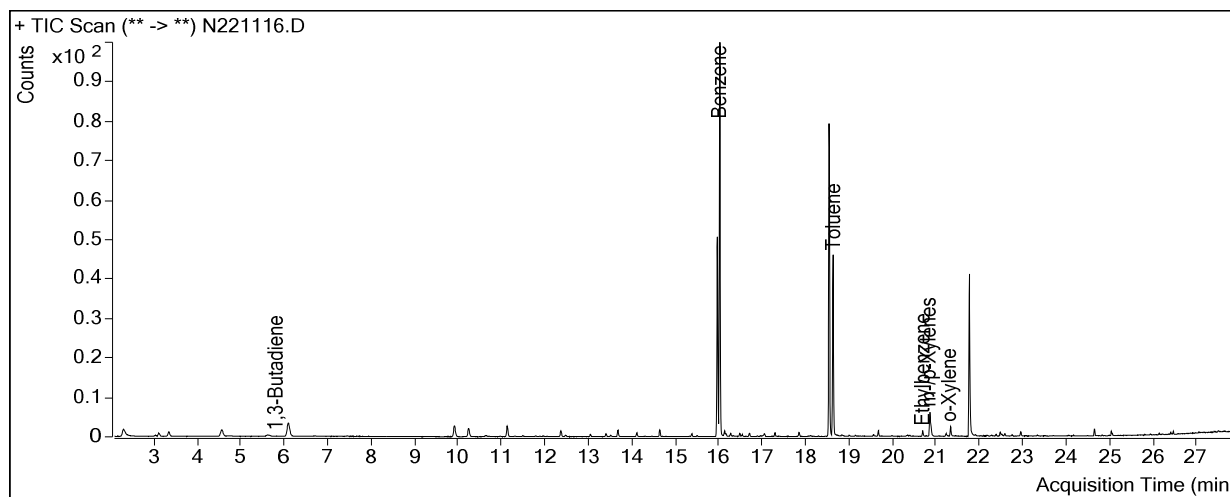


Sample Name : USSCL-PT02-S-20221122
Sample Info : B42751
Data File : N221114.D
Acquisition Date : 2022-12-08 23:46:22
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



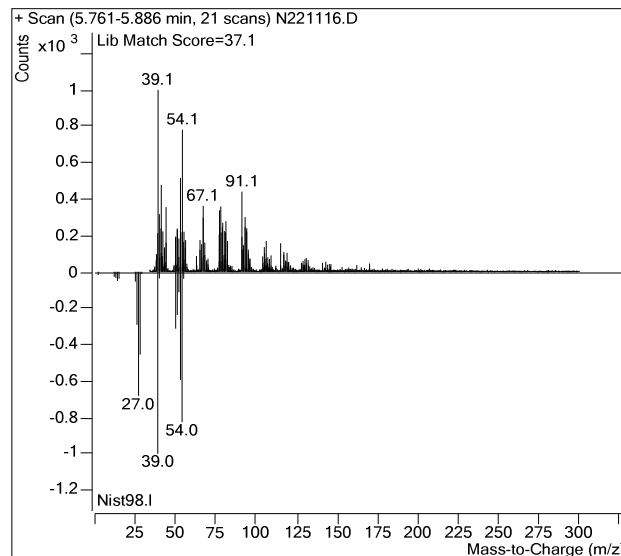
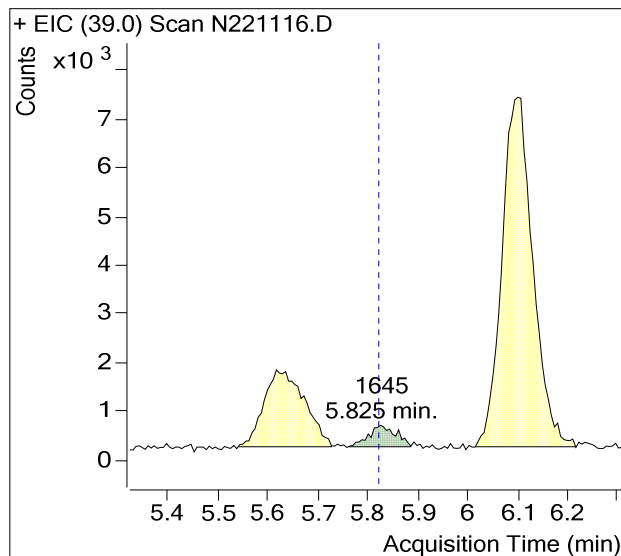
Sample Name : USSCL-PT04-S-20221122
Sample Info : B15565
Data File : N221116.D
Acquisition Date : 2022-12-09 01:06:17
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	1,645	
Benzene-d6 (IS)	15.97	1,289,018	
Benzene	16.03	2,270,443	
Toluene-d8 (IS)	18.55	1,495,690	
Toluene	18.64	937,258	
Ethylbenzene	20.70	33,183	
m-/p-Xylenes	20.89	147,558	
o-Xylene	21.32	43,752	

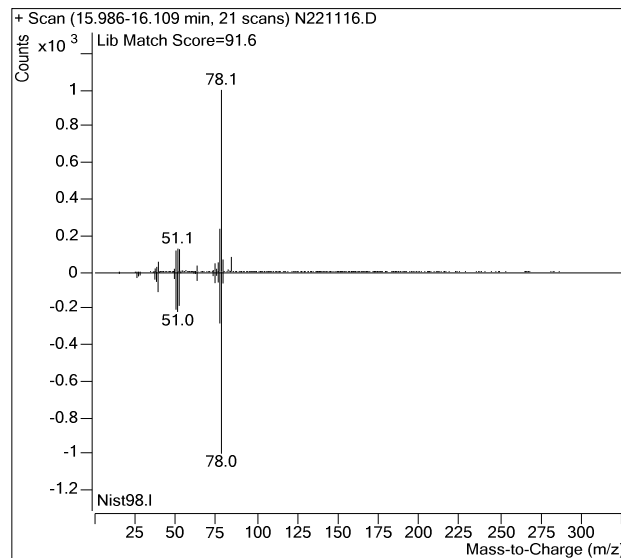
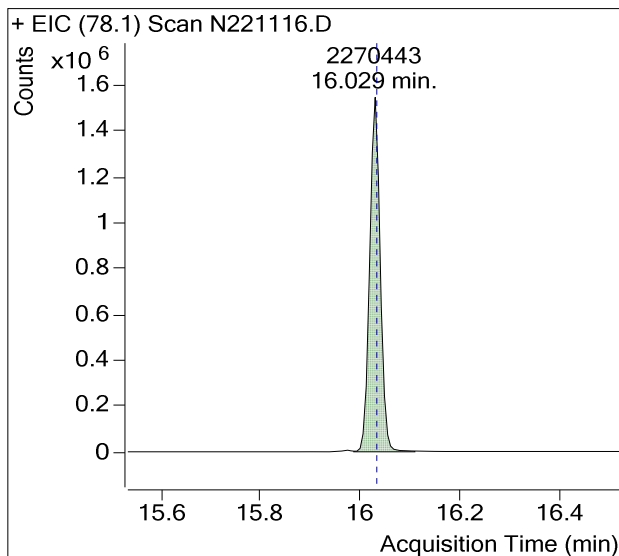
(m)=Manual Integration

1,3-Butadiene

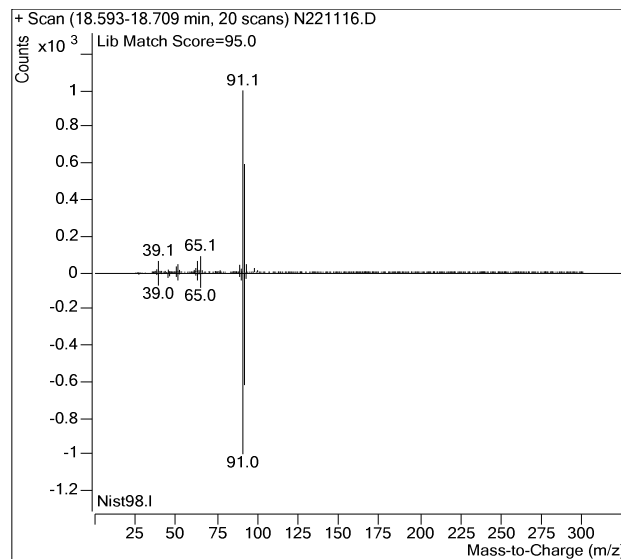
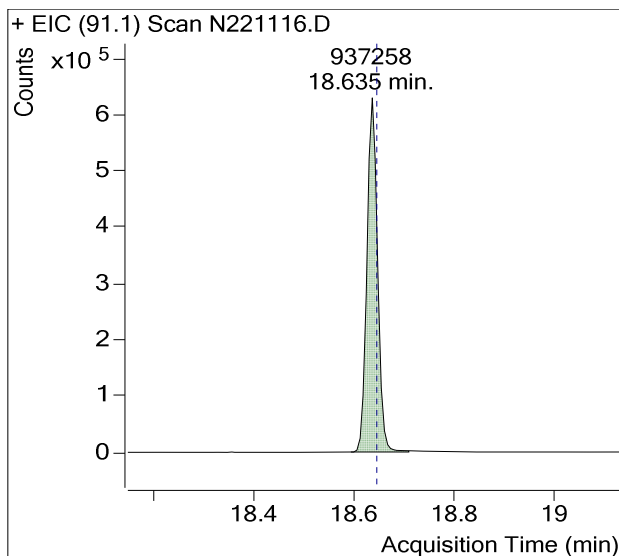


Sample Name : USSCL-PT04-S-20221122
Sample Info : B15565
Data File : N221116.D
Acquisition Date : 2022-12-09 01:06:17
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

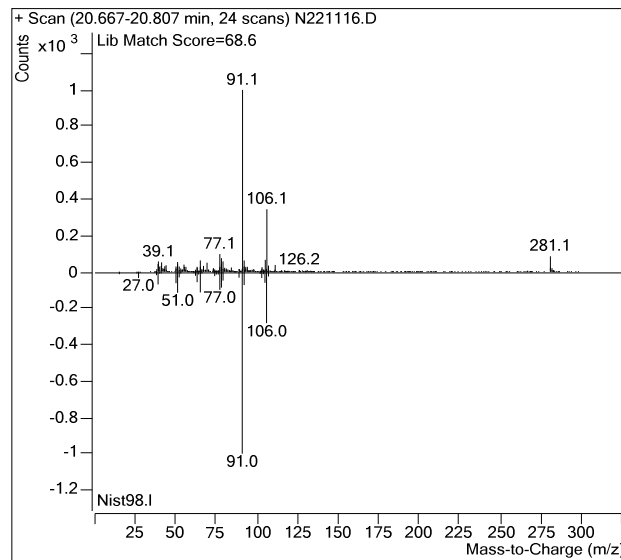
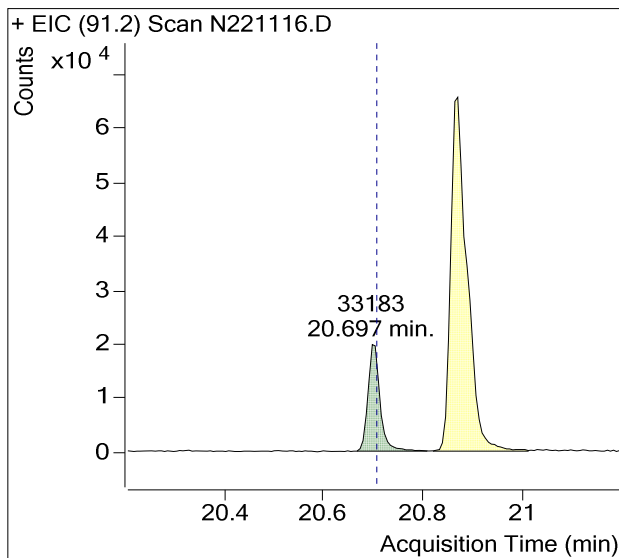


Toluene

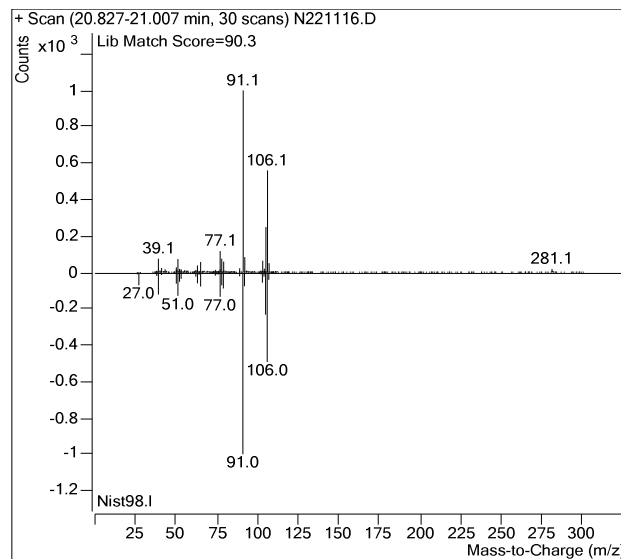
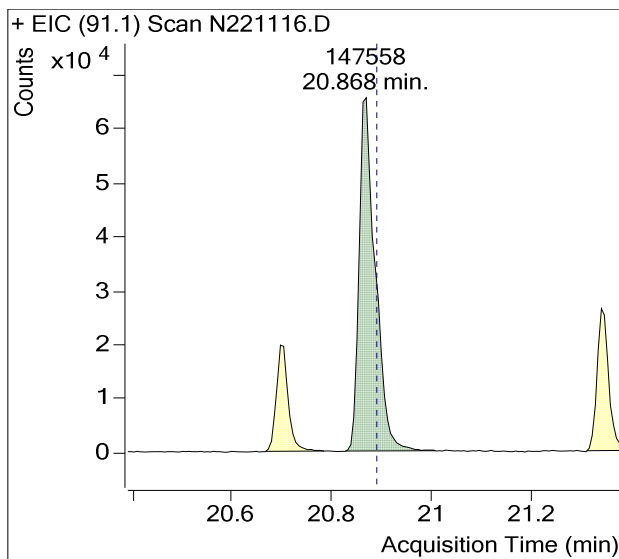


Sample Name : USSCL-PT04-S-20221122
Sample Info : B15565
Data File : N221116.D
Acquisition Date : 2022-12-09 01:06:17
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

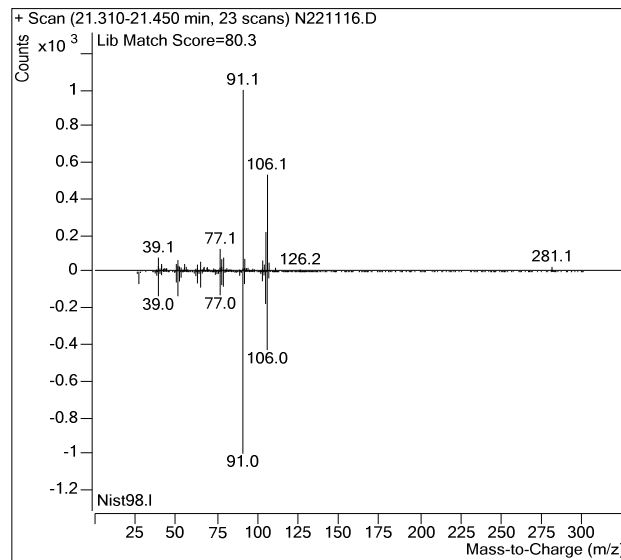
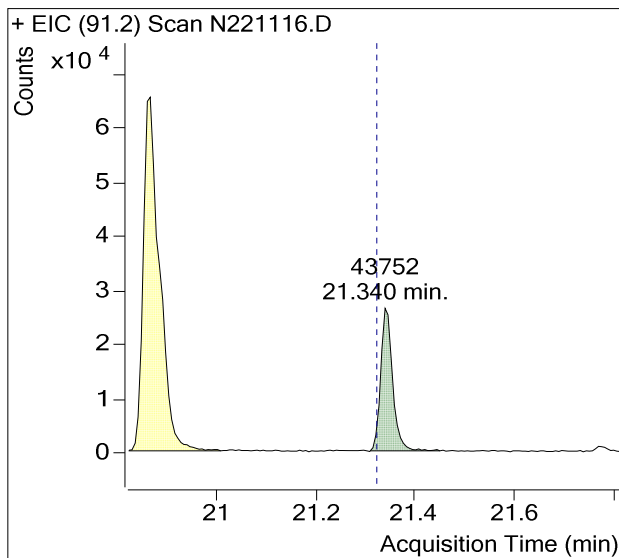


m-/p-Xylenes

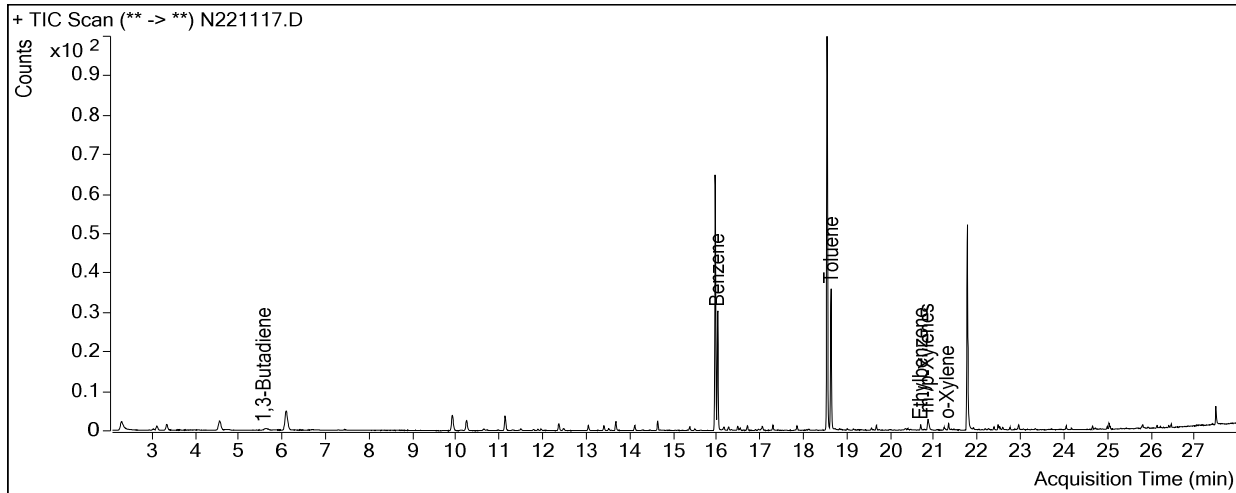


Sample Name : USSCL-PT04-S-20221122
Sample Info : B15565
Data File : N221116.D
Acquisition Date : 2022-12-09 01:06:17
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



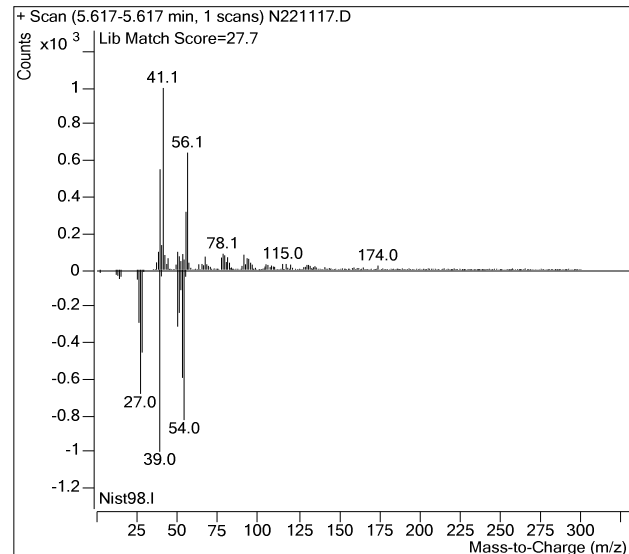
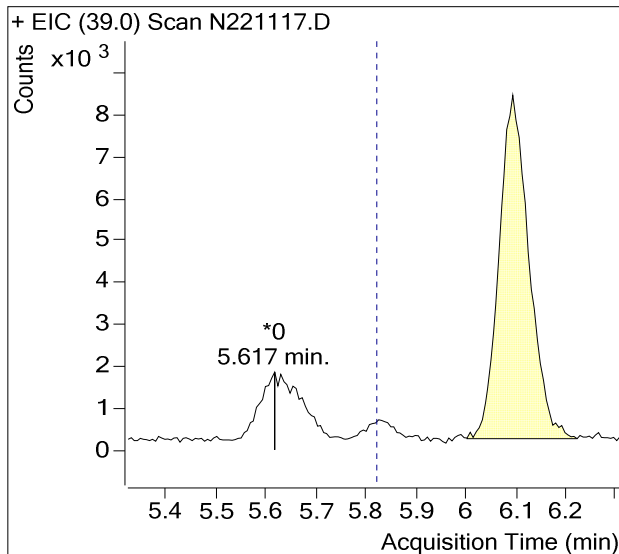
Sample Name : USSCL-PT05-S-20221122
Sample Info : B14981
Data File : N221117.D
Acquisition Date : 2022-12-09 01:46:04
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	0	m
Benzene-d6 (IS)	15.97	1,278,771	
Benzene	16.03	568,633	
Toluene-d8 (IS)	18.55	1,452,018	
Toluene	18.64	569,302	
Ethylbenzene	20.70	24,547	
m-/p-Xylenes	20.89	55,411	
o-Xylene	21.32	23,089	

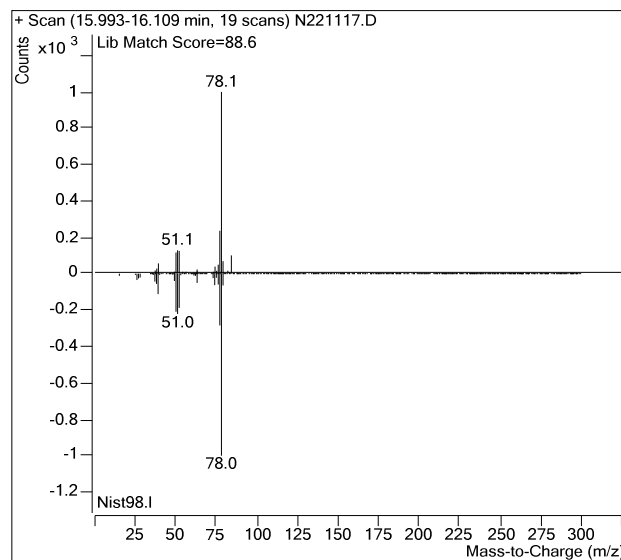
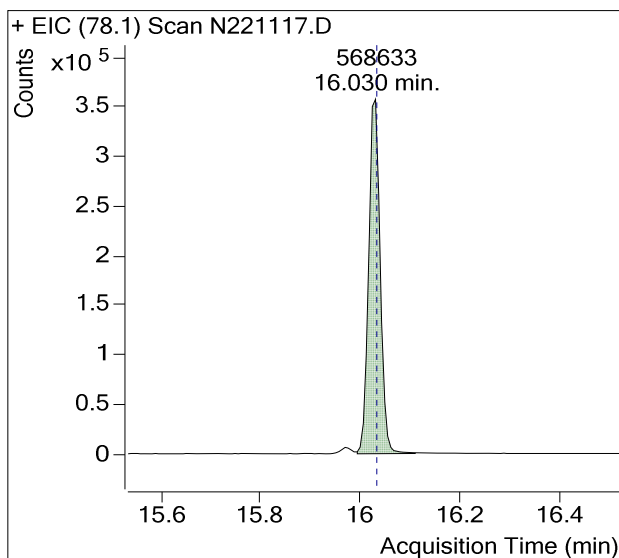
(m)=Manual Integration

1,3-Butadiene

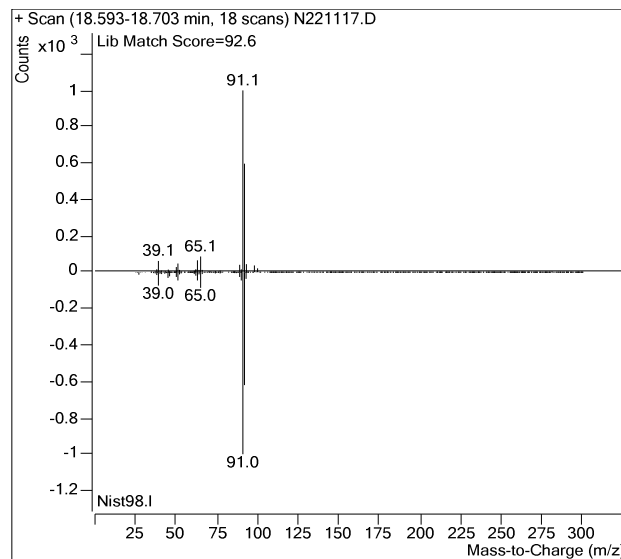
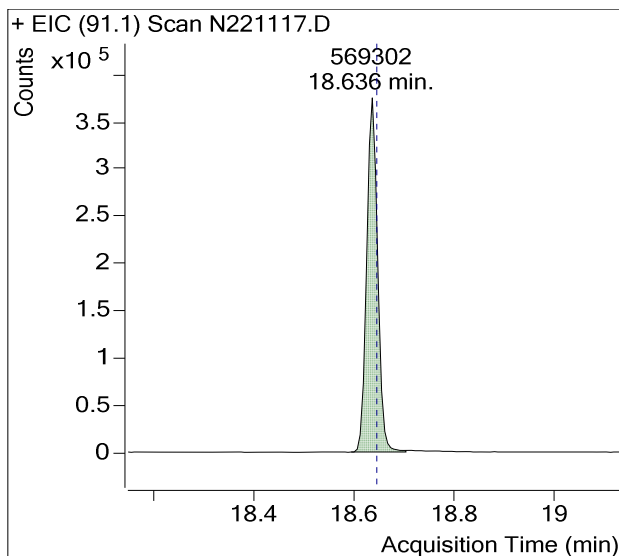


Sample Name : USSCL-PT05-S-20221122
Sample Info : B14981
Data File : N221117.D
Acquisition Date : 2022-12-09 01:46:04
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

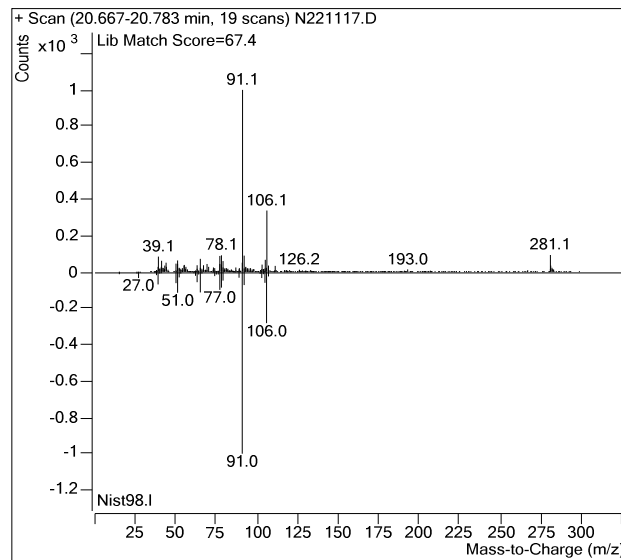
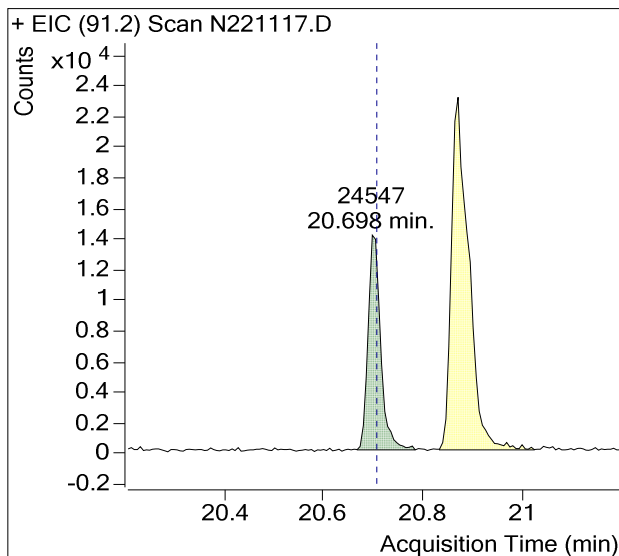


Toluene

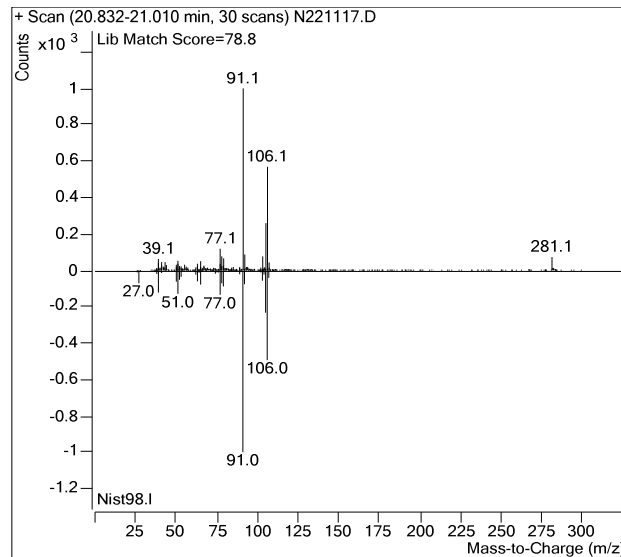
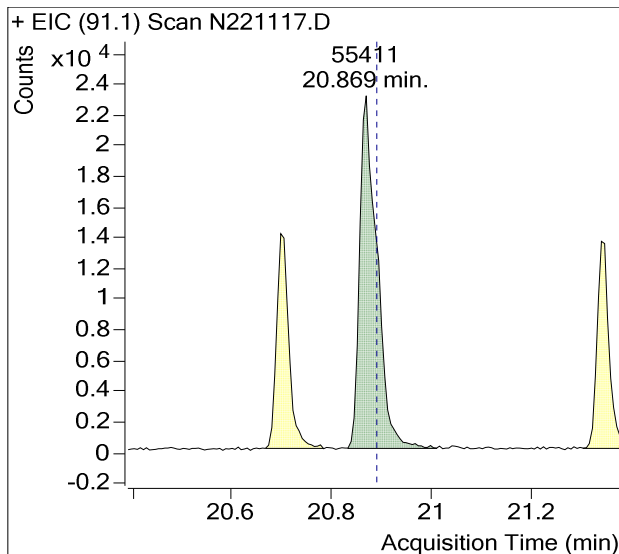


Sample Name : USSCL-PT05-S-20221122
Sample Info : B14981
Data File : N221117.D
Acquisition Date : 2022-12-09 01:46:04
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

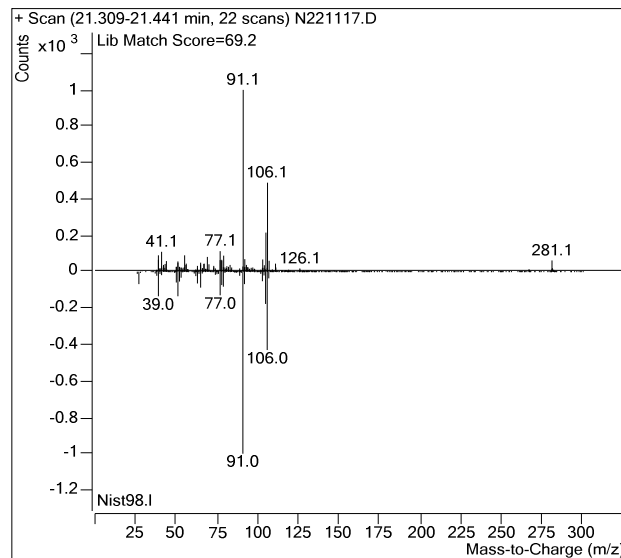
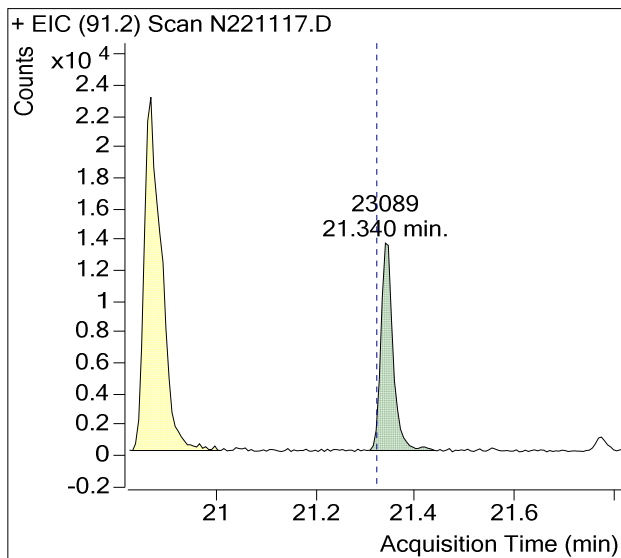


m-/p-Xylenes

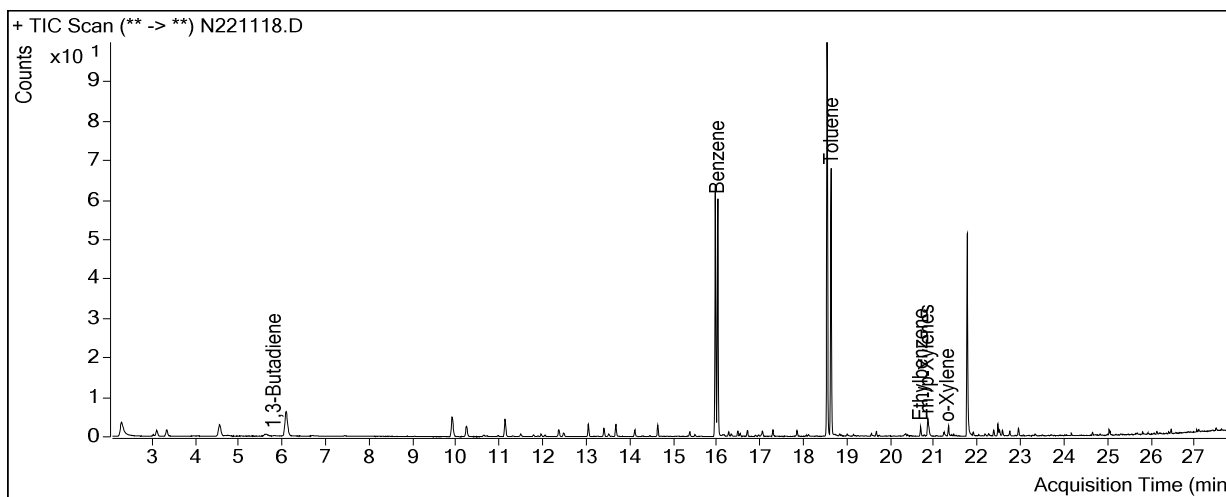


Sample Name : USSCL-PT05-S-20221122
Sample Info : B14981
Data File : N221117.D
Acquisition Date : 2022-12-09 01:46:04
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



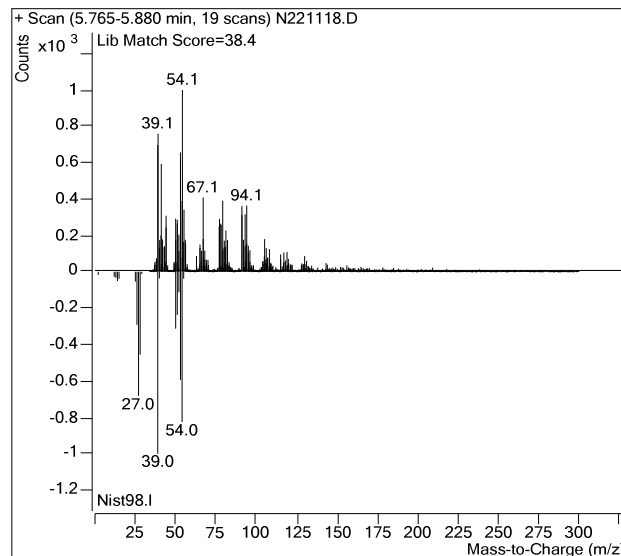
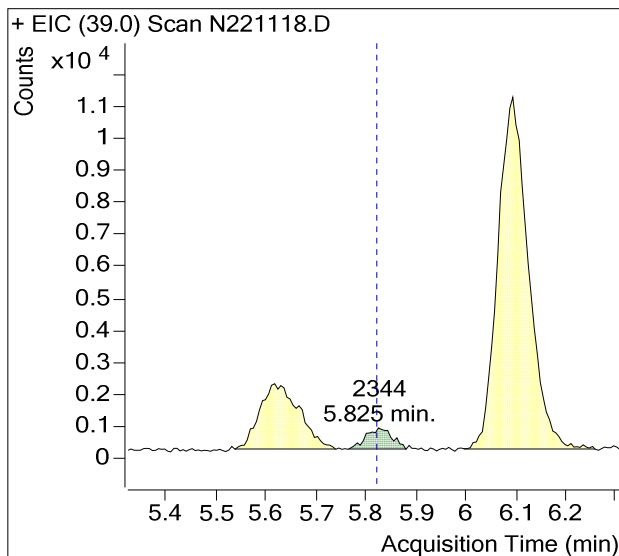
Sample Name : USSCL-PT06-S-20221122
Sample Info : B20992
Data File : N221118.D
Acquisition Date : 2022-12-09 02:25:52
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	2,344	
Benzene-d6 (IS)	15.97	1,316,274	
Benzene	16.03	1,148,104	
Toluene-d8 (IS)	18.55	1,515,890	
Toluene	18.64	1,117,991	
Ethylbenzene	20.70	45,465	
m-/p-Xylenes	20.89	91,148	
o-Xylene	21.32	35,481	

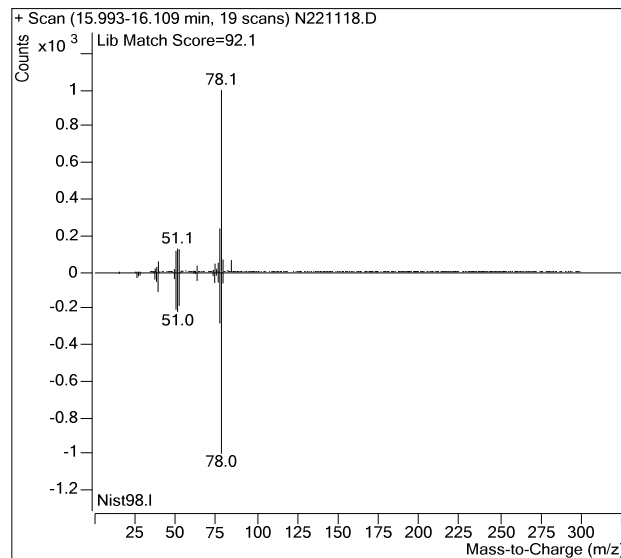
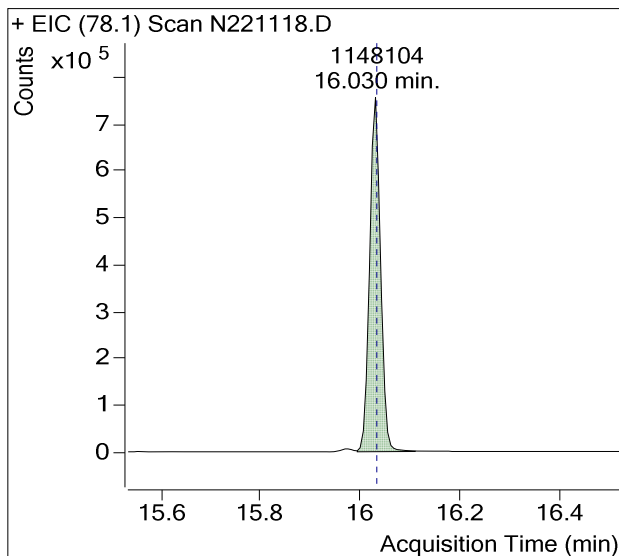
(m)=Manual Integration

1,3-Butadiene

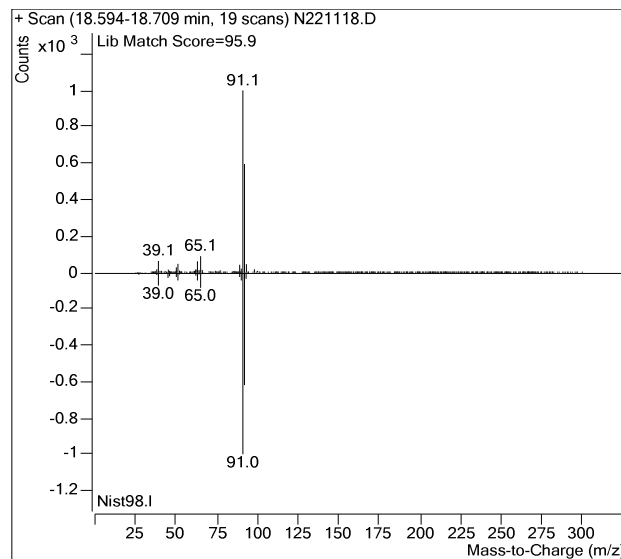
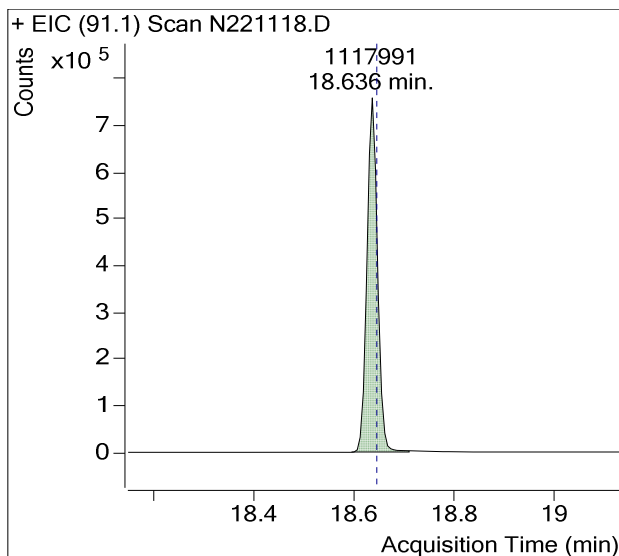


Sample Name : USSCL-PT06-S-20221122
Sample Info : B20992
Data File : N221118.D
Acquisition Date : 2022-12-09 02:25:52
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

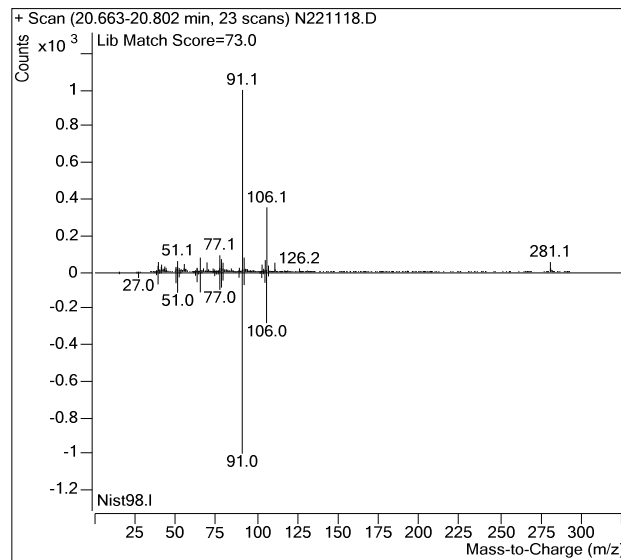
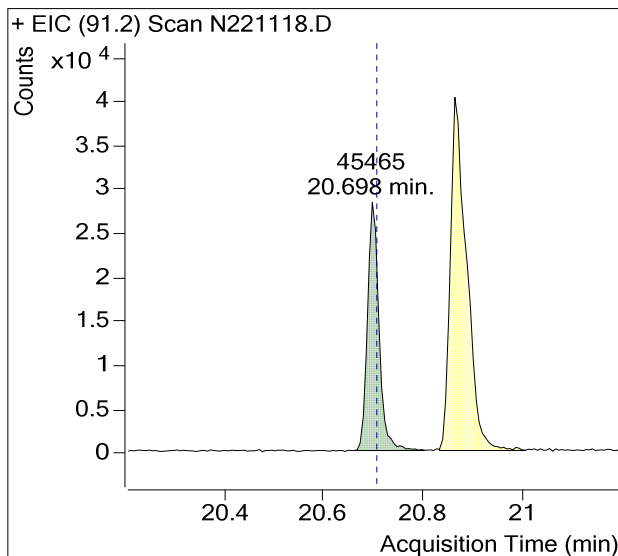


Toluene

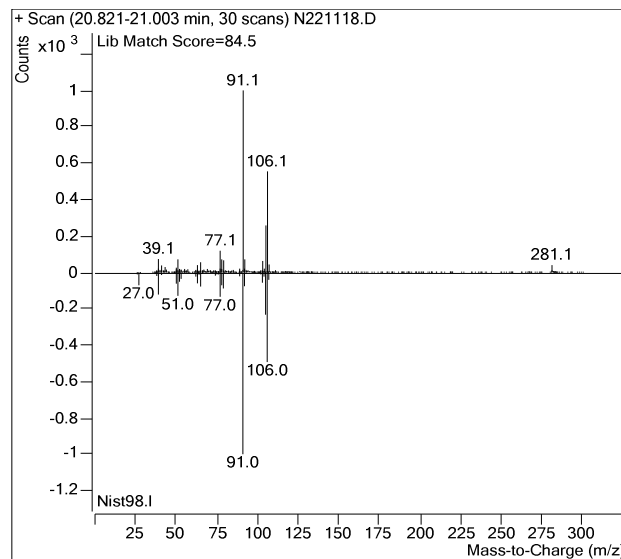
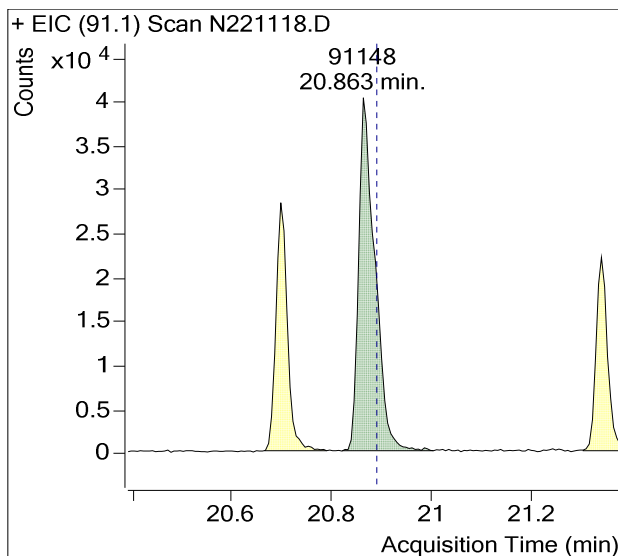


Sample Name : USSCL-PT06-S-20221122
Sample Info : B20992
Data File : N221118.D
Acquisition Date : 2022-12-09 02:25:52
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

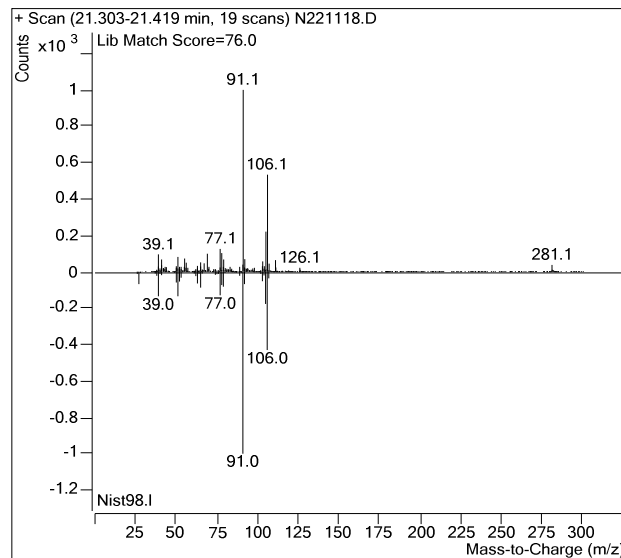
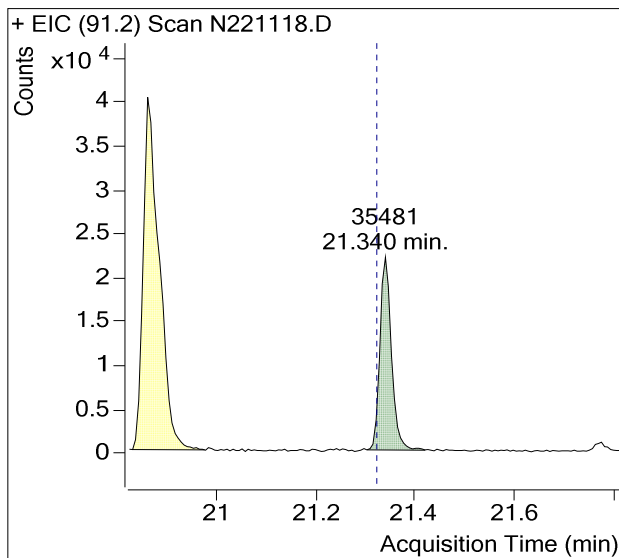


m-/p-Xylenes

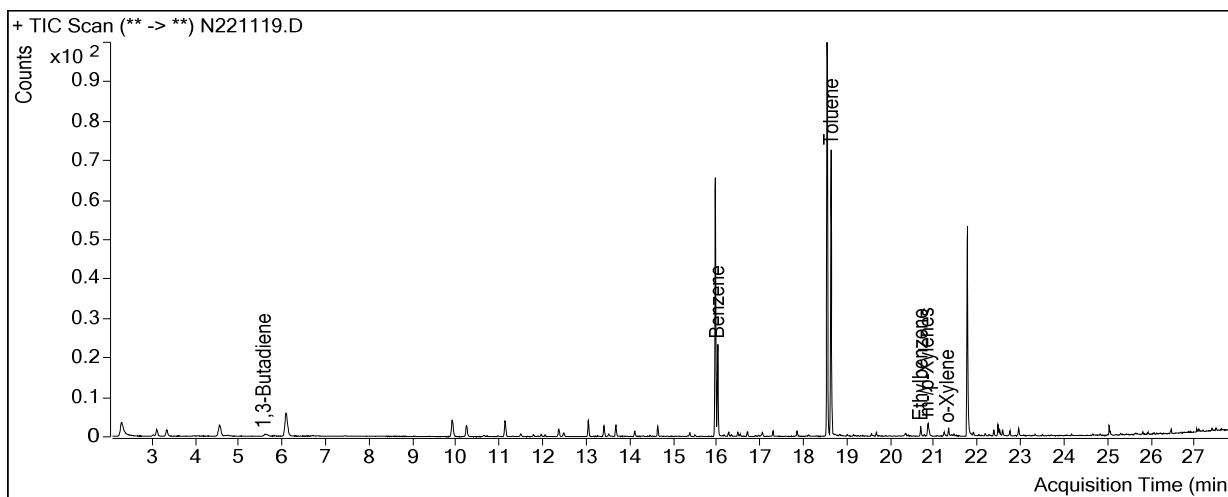


Sample Name : USSCL-PT06-S-20221122
Sample Info : B20992
Data File : N221118.D
Acquisition Date : 2022-12-09 02:25:52
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



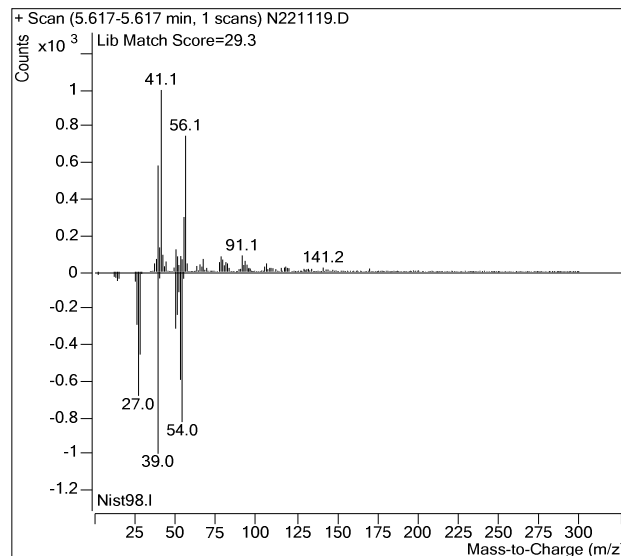
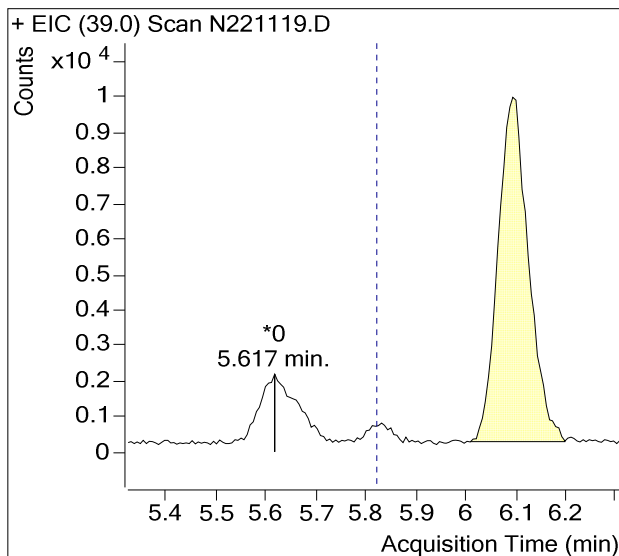
Sample Name : USSCL-PT07-S-20221122
Sample Info : B37438
Data File : N221119.D
Acquisition Date : 2022-12-09 03:05:38
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	0	m
Benzene-d6 (IS)	15.97	1,292,888	
Benzene	16.03	426,758	
Toluene-d8 (IS)	18.55	1,479,442	
Toluene	18.64	1,137,700	
Ethylbenzene	20.70	43,074	
m-/p-Xylenes	20.89	64,500	
o-Xylene	21.32	26,548	

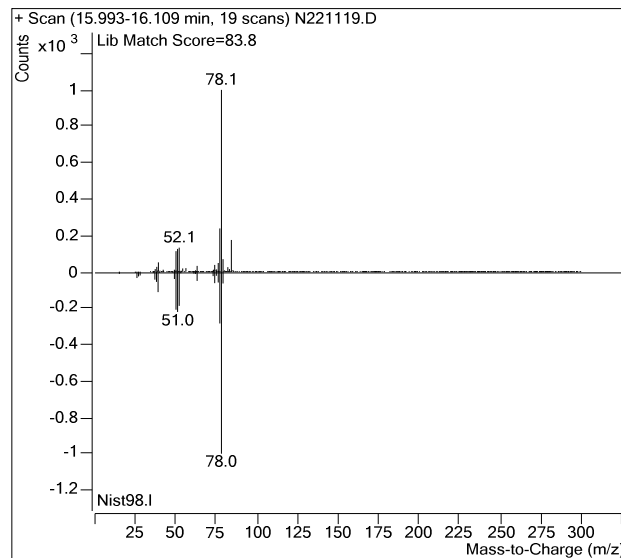
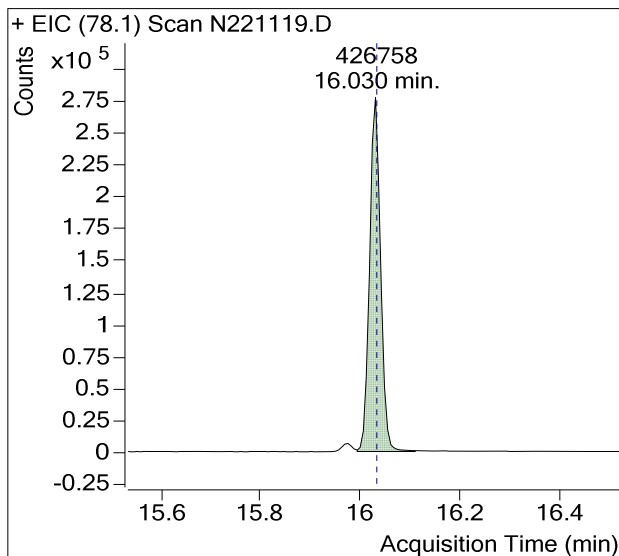
(m)=Manual Integration

1,3-Butadiene

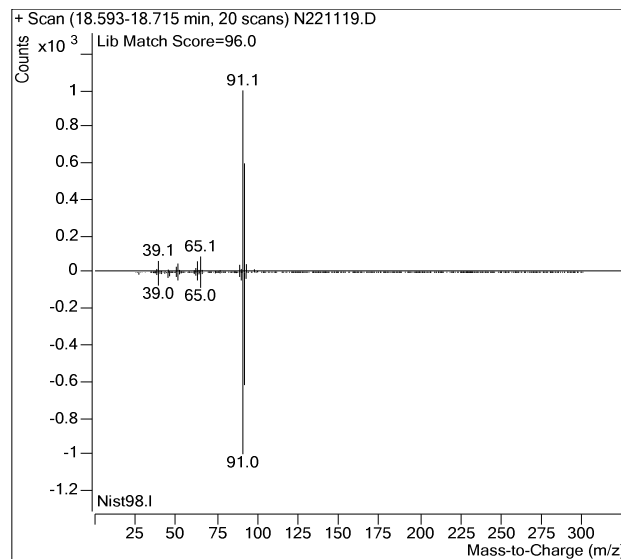
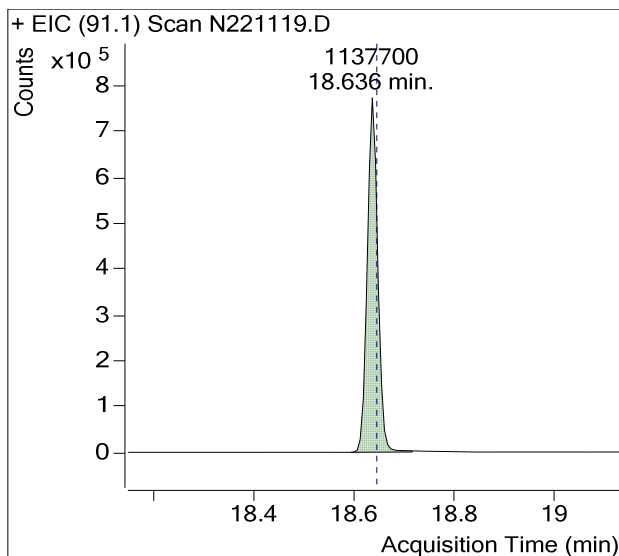


Sample Name : USSCL-PT07-S-20221122
Sample Info : B37438
Data File : N221119.D
Acquisition Date : 2022-12-09 03:05:38
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

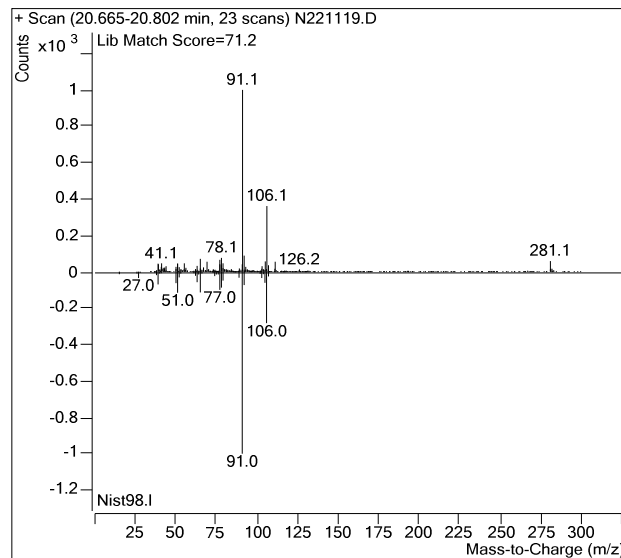
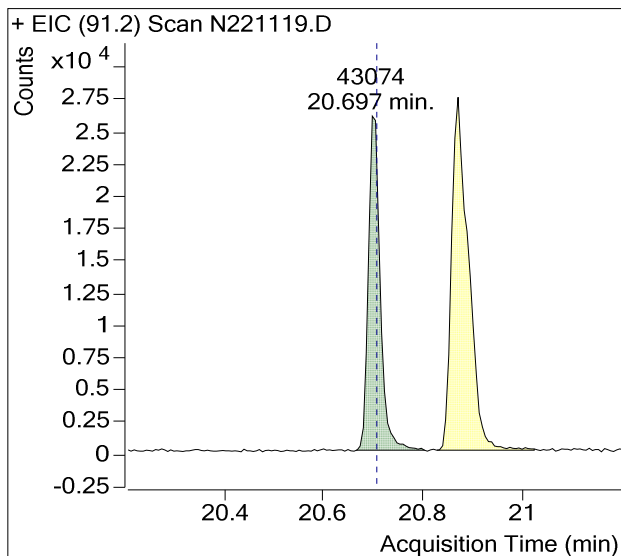


Toluene

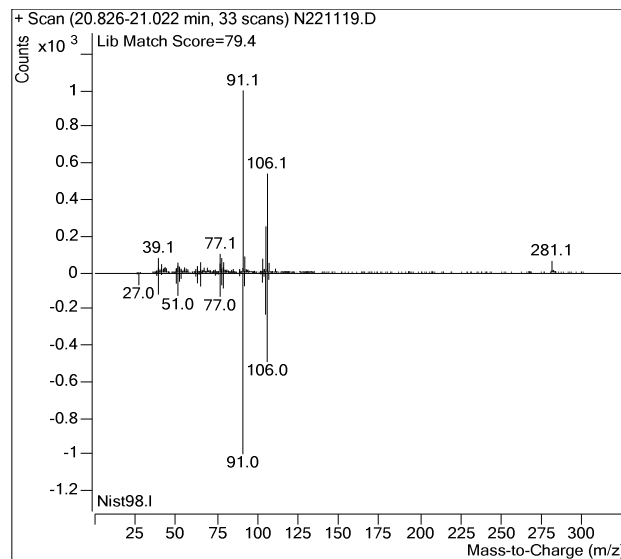
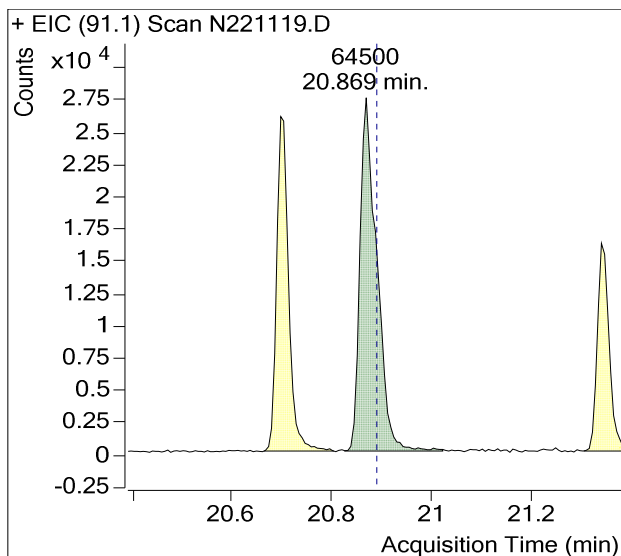


Sample Name : USSCL-PT07-S-20221122
Sample Info : B37438
Data File : N221119.D
Acquisition Date : 2022-12-09 03:05:38
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

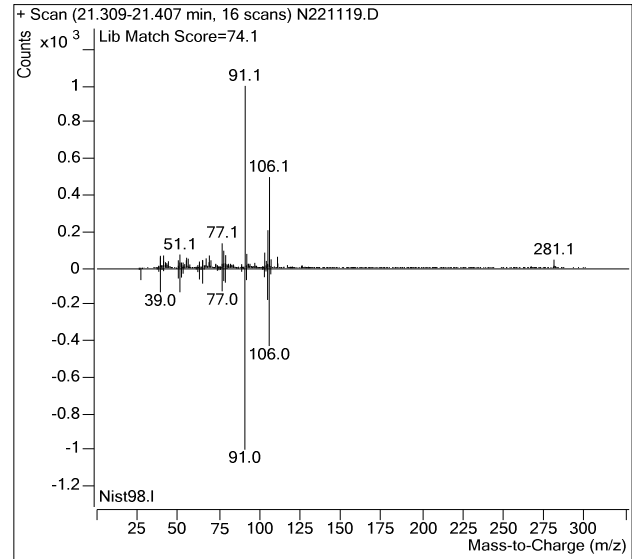
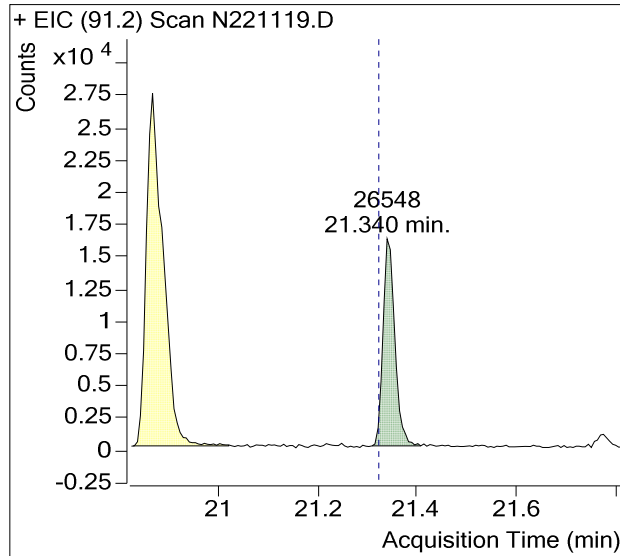


m-/p-Xylenes

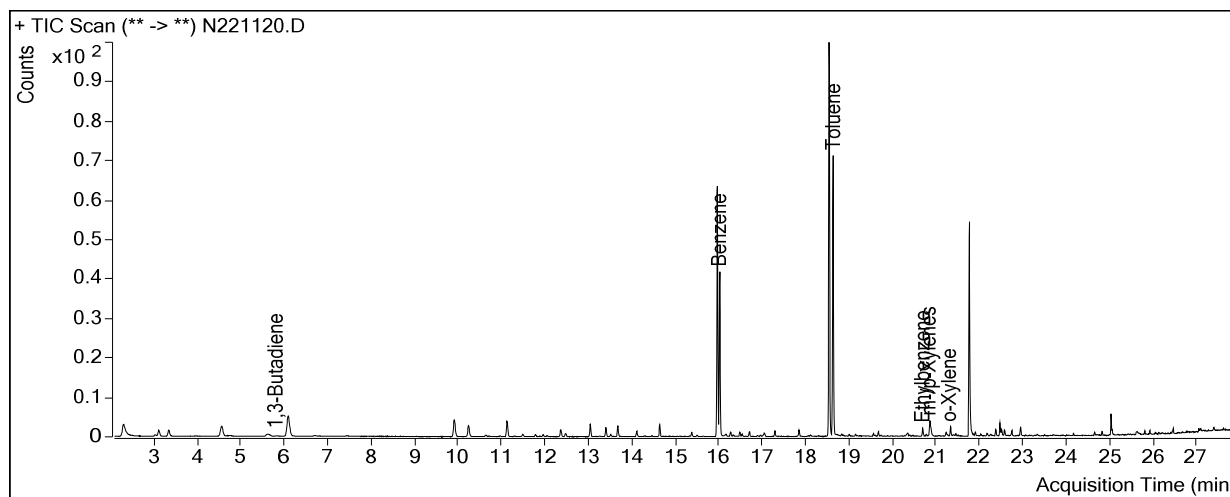


Sample Name : USSCL-PT07-S-20221122
Sample Info : B37438
Data File : N221119.D
Acquisition Date : 2022-12-09 03:05:38
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



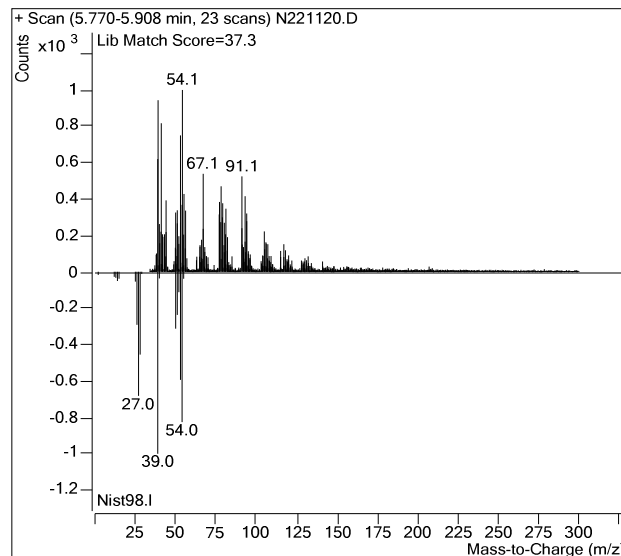
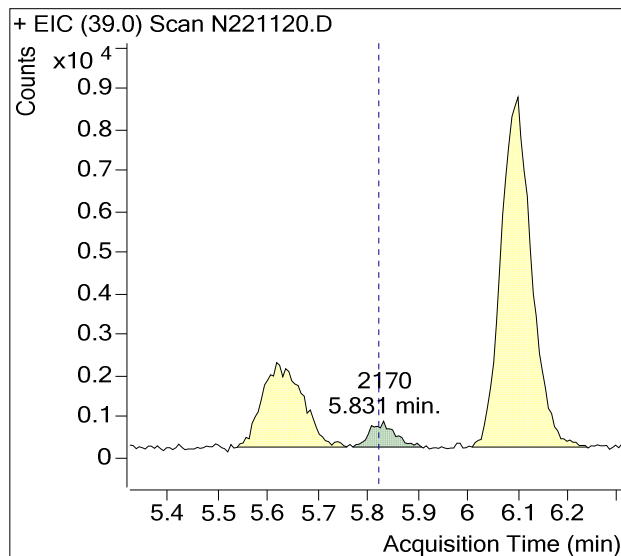
Sample Name : USSCL-PT08-S-20221122
Sample Info : C01666
Data File : N221120.D
Acquisition Date : 2022-12-09 03:45:26
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	2,170	
Benzene-d6 (IS)	15.97	1,265,496	
Benzene	16.03	768,757	
Toluene-d8 (IS)	18.55	1,467,682	
Toluene	18.64	1,111,670	
Ethylbenzene	20.70	37,559	
m-/p-Xylenes	20.89	77,613	
o-Xylene	21.32	30,396	

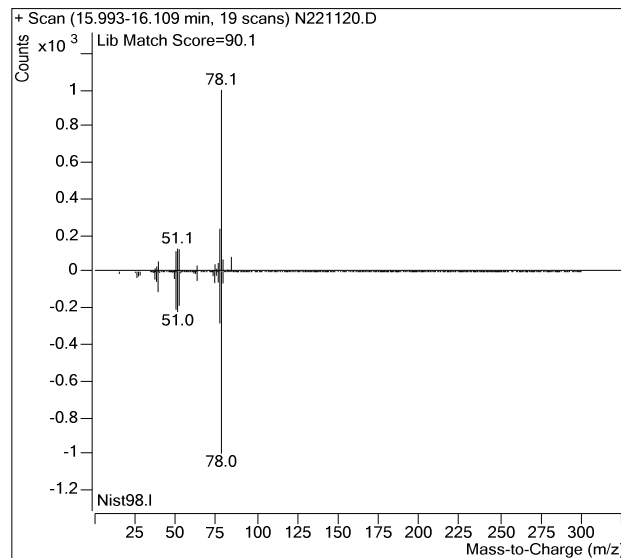
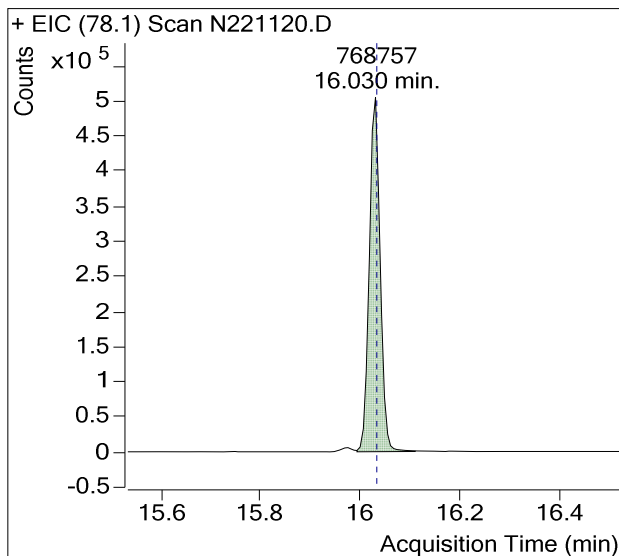
(m)=Manual Integration

1,3-Butadiene

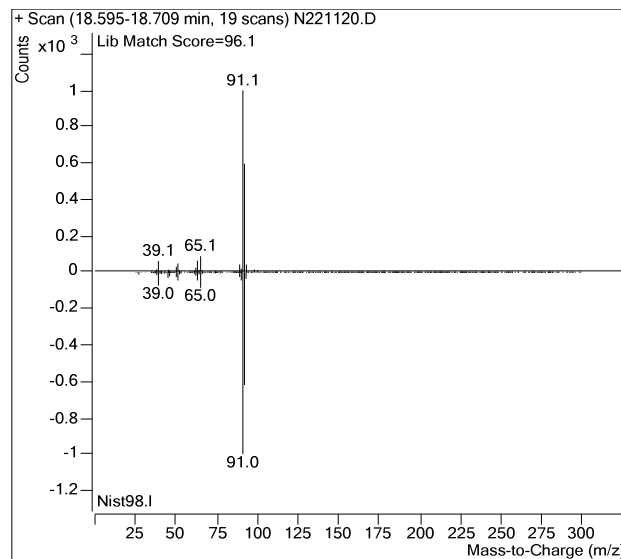
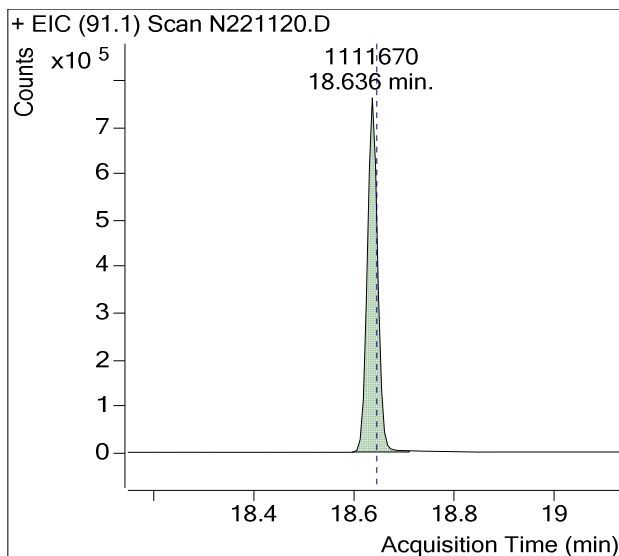


Sample Name : USSCL-PT08-S-20221122
Sample Info : C01666
Data File : N221120.D
Acquisition Date : 2022-12-09 03:45:26
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

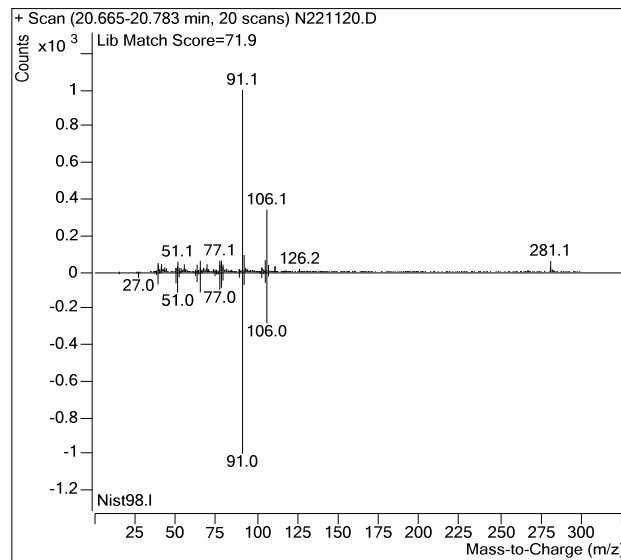
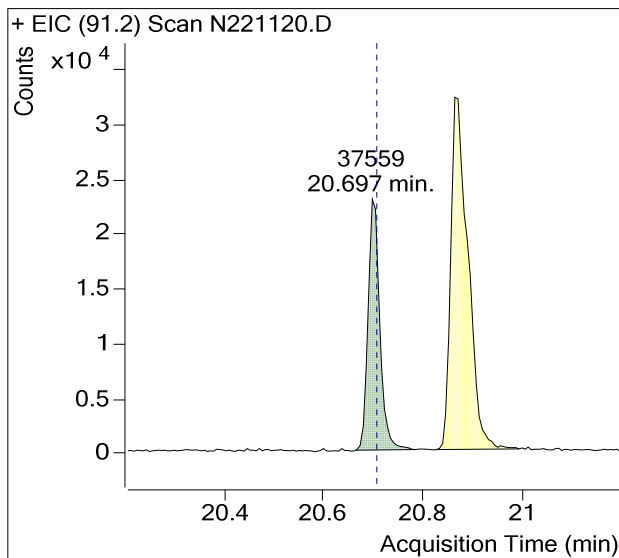


Toluene

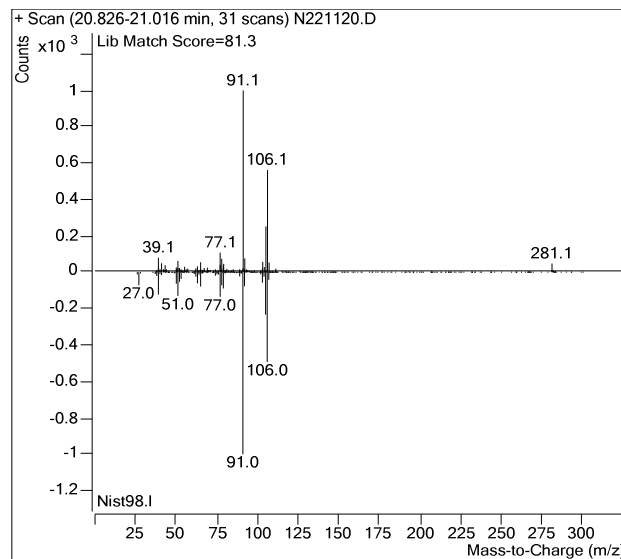
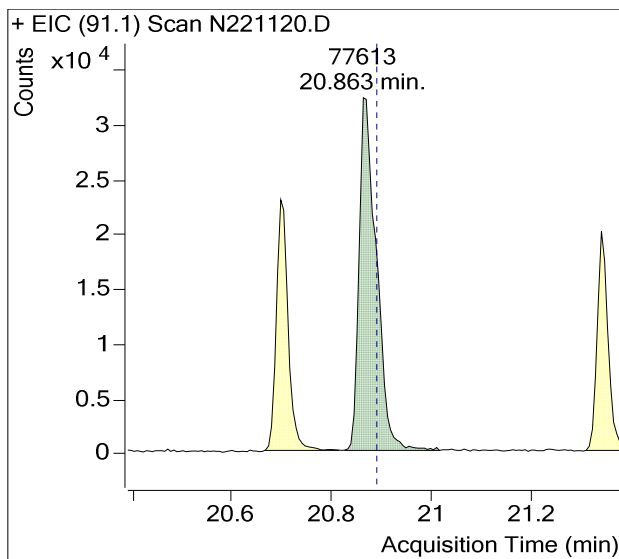


Sample Name : USSCL-PT08-S-20221122
Sample Info : C01666
Data File : N221120.D
Acquisition Date : 2022-12-09 03:45:26
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

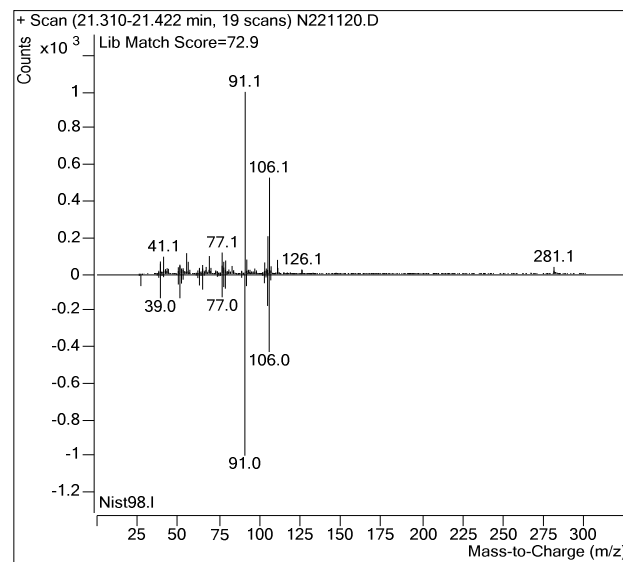
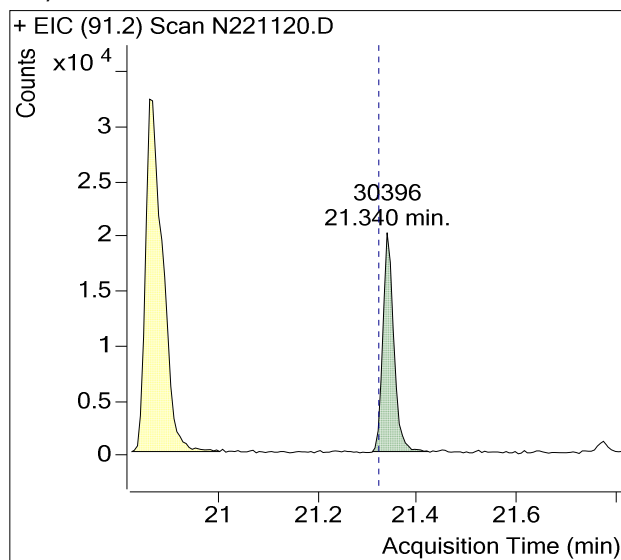


m-/p-Xylenes

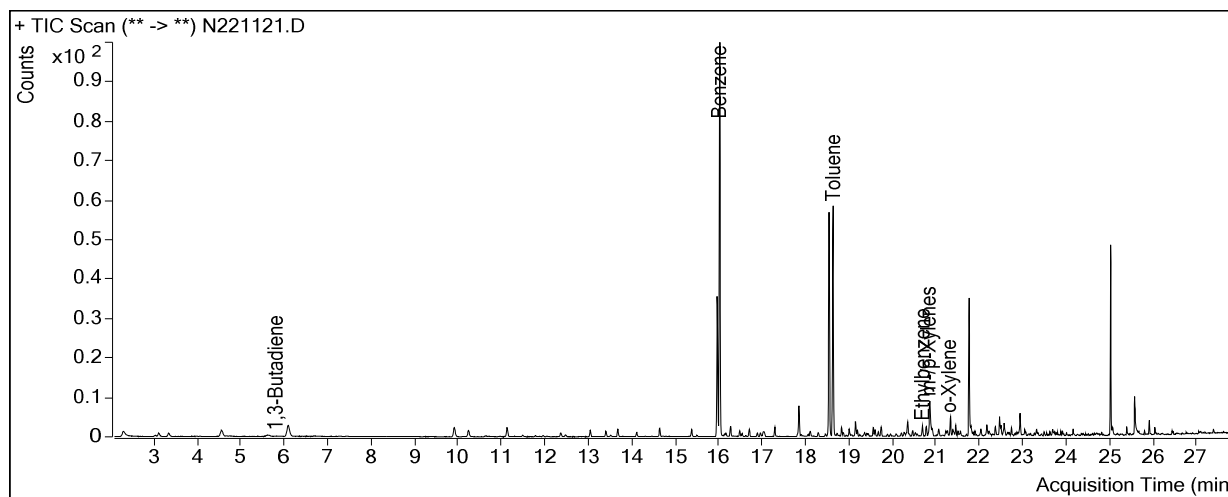


Sample Name : USSCL-PT08-S-20221122
Sample Info : C01666
Data File : N221120.D
Acquisition Date : 2022-12-09 03:45:26
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



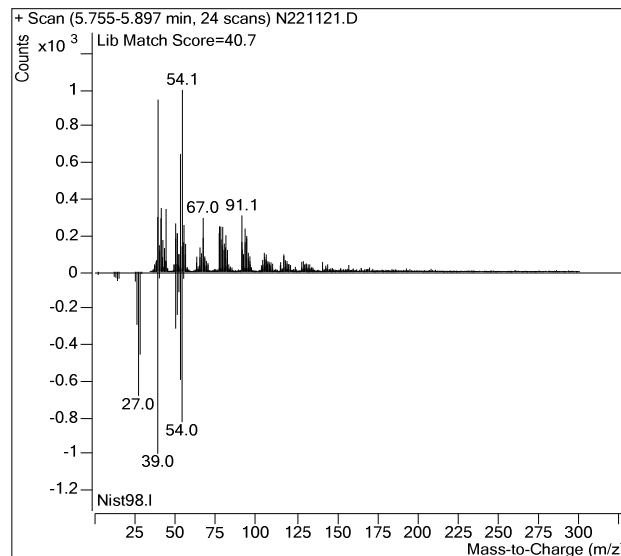
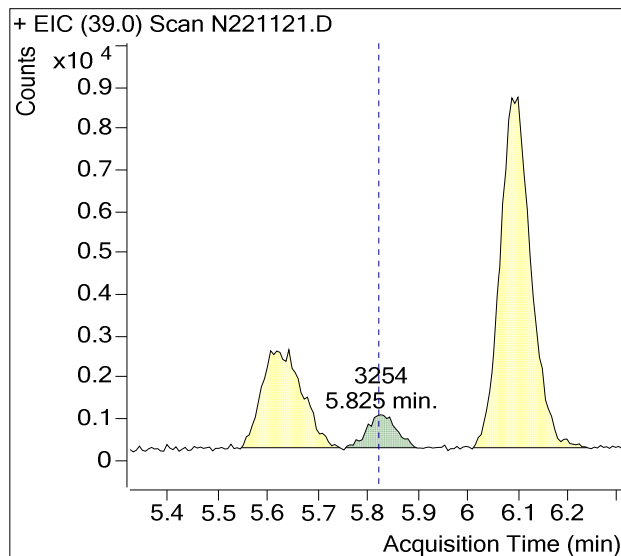
Sample Name : USSCL-PT09-S-20221122
Sample Info : B48066
Data File : N221121.D
Acquisition Date : 2022-12-09 04:25:14
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	3,254	
Benzene-d6 (IS)	15.97	1,280,724	
Benzene	16.03	3,320,651	
Toluene-d8 (IS)	18.55	1,484,282	
Toluene	18.64	1,628,162	
Ethylbenzene	20.70	73,784	
m-/p-Xylenes	20.89	262,901	
o-Xylene	21.32	99,454	

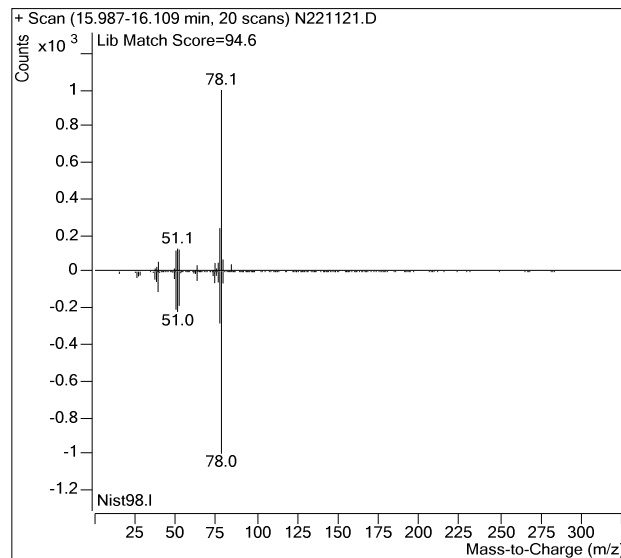
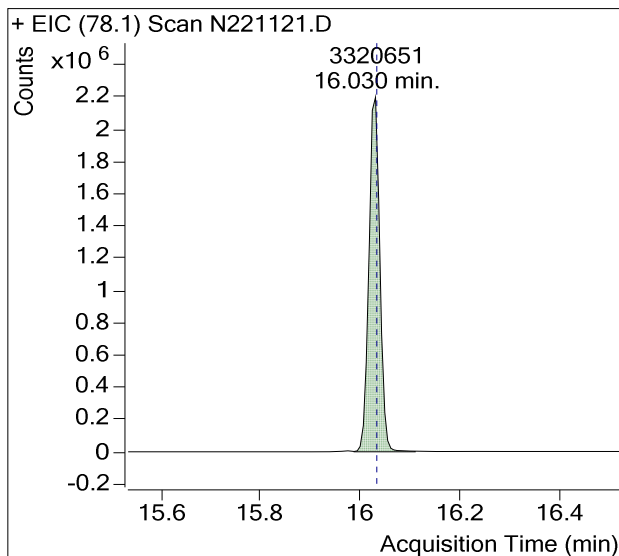
(m)=Manual Integration

1,3-Butadiene

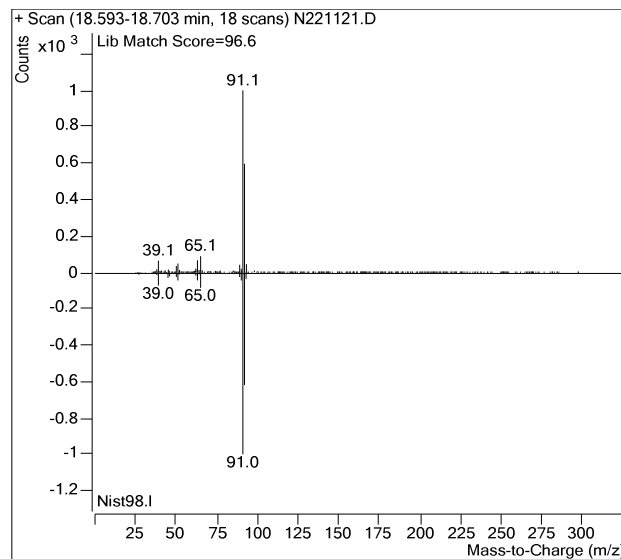
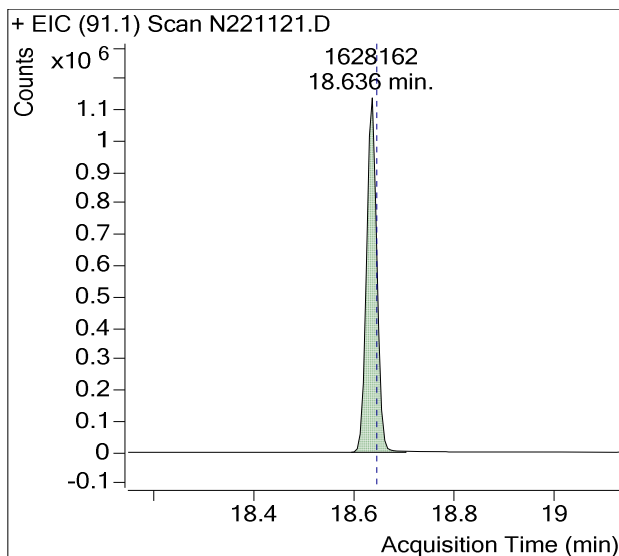


Sample Name : USSCL-PT09-S-20221122
Sample Info : B48066
Data File : N221121.D
Acquisition Date : 2022-12-09 04:25:14
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

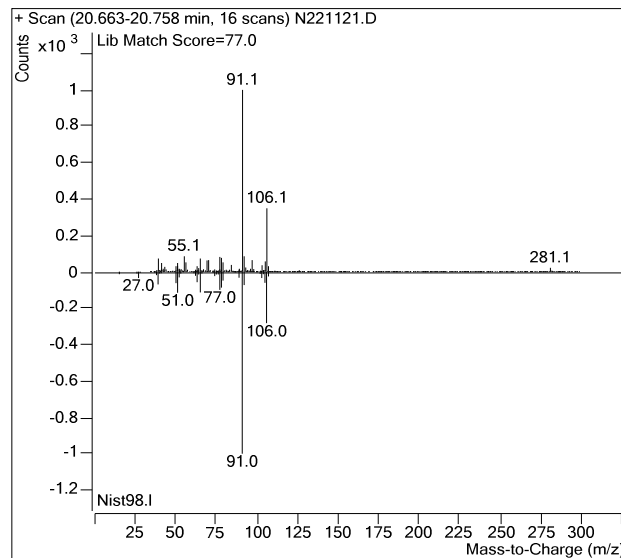
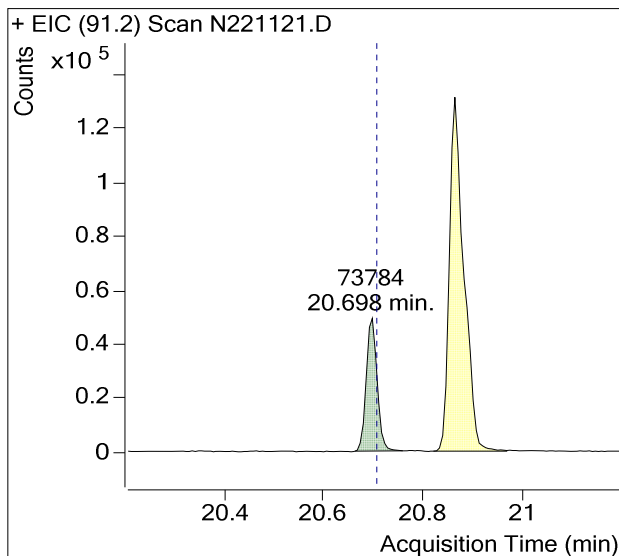


Toluene

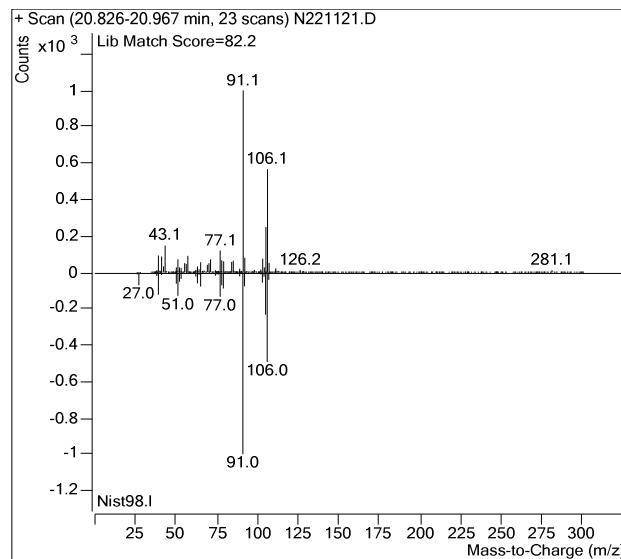
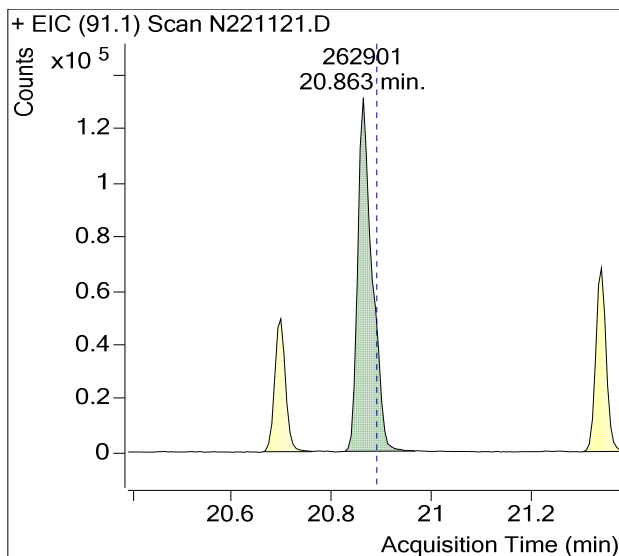


Sample Name : USSCL-PT09-S-20221122
Sample Info : B48066
Data File : N221121.D
Acquisition Date : 2022-12-09 04:25:14
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

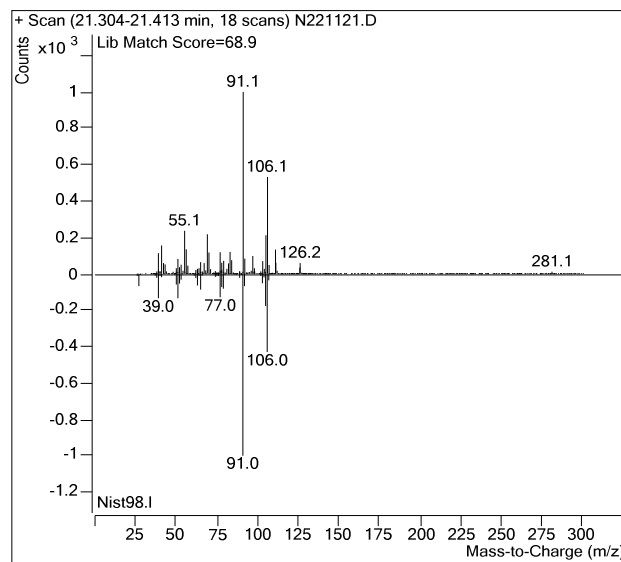
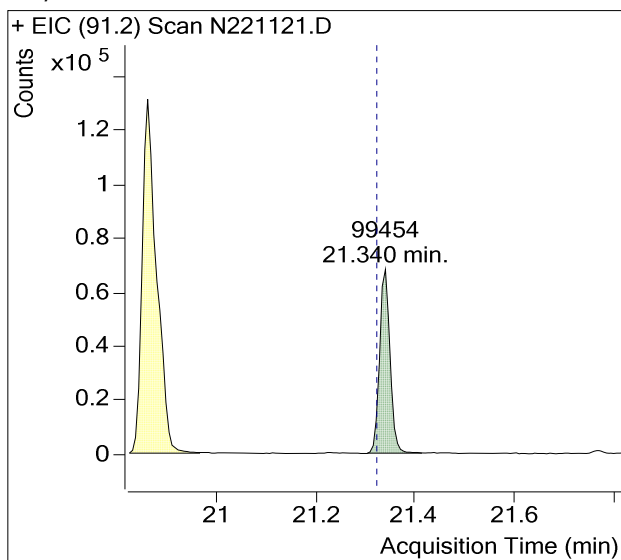


m-/p-Xylenes

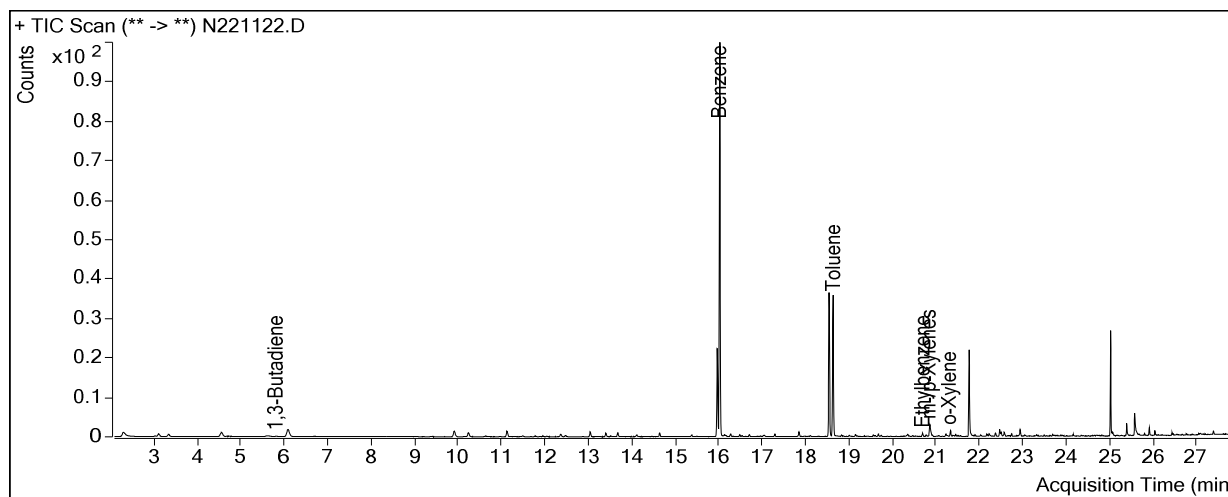


Sample Name : USSCL-PT09-S-20221122
Sample Info : B48066
Data File : N221121.D
Acquisition Date : 2022-12-09 04:25:14
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



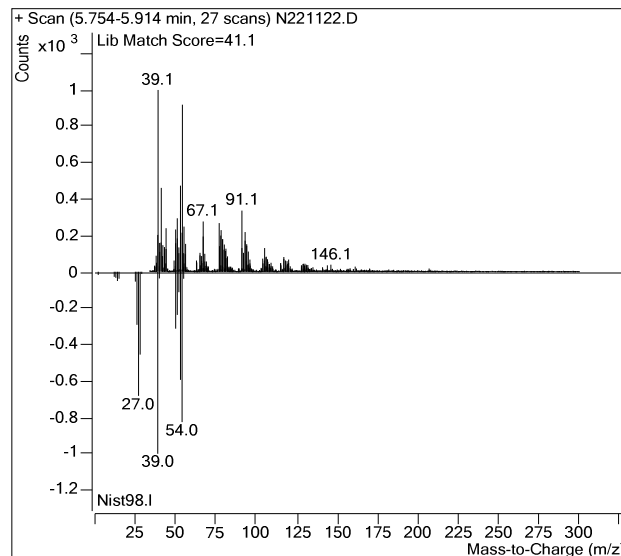
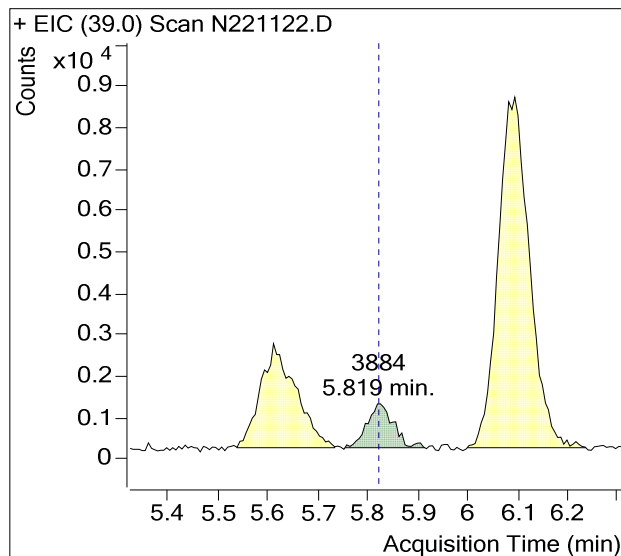
Sample Name : USSCL-PT10-S-20221122
Sample Info : B42761
Data File : N221122.D
Acquisition Date : 2022-12-09 05:05:00
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	3,884	
Benzene-d6 (IS)	15.97	1,281,563	
Benzene	16.03	4,897,482	
Toluene-d8 (IS)	18.55	1,485,138	
Toluene	18.64	1,568,333	
Ethylbenzene	20.70	41,727	
m-/p-Xylenes	20.89	152,283	
o-Xylene	21.32	51,754	

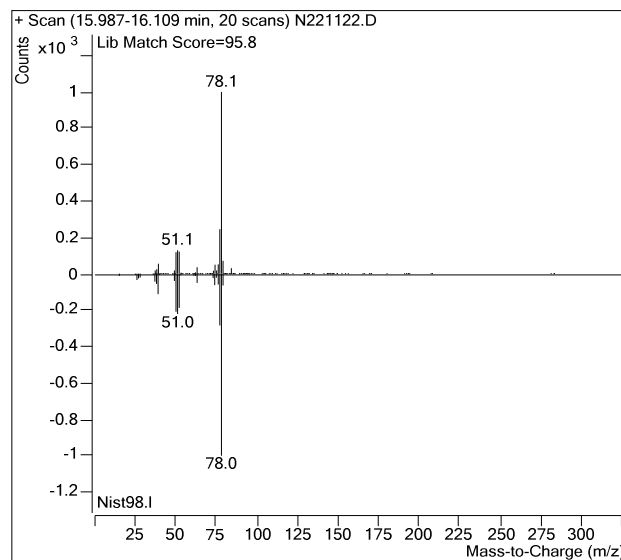
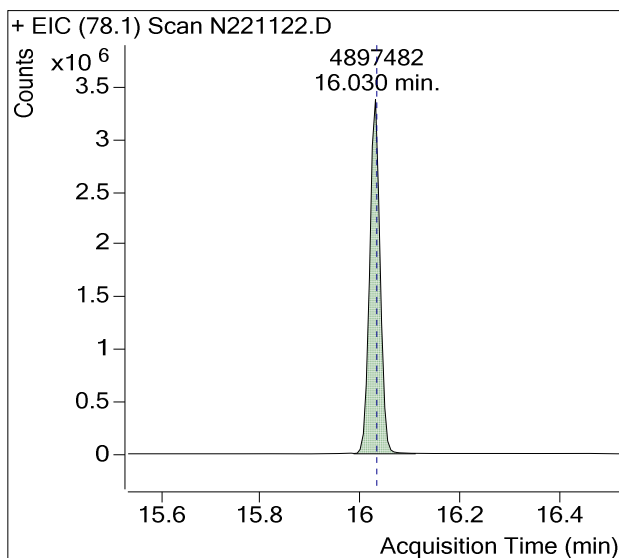
(m)=Manual Integration

1,3-Butadiene

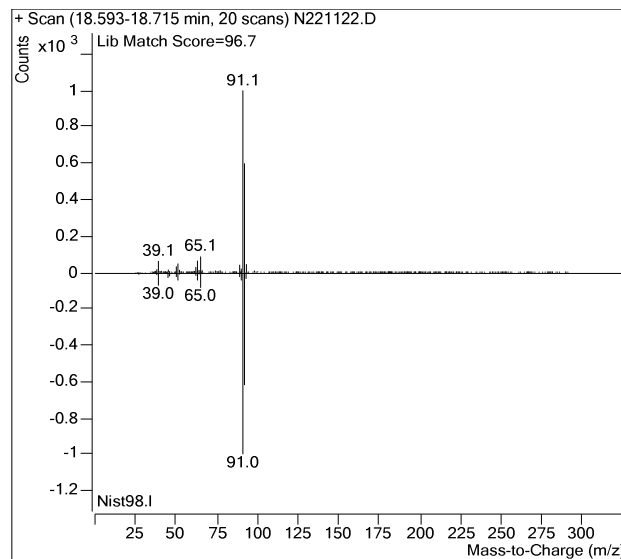
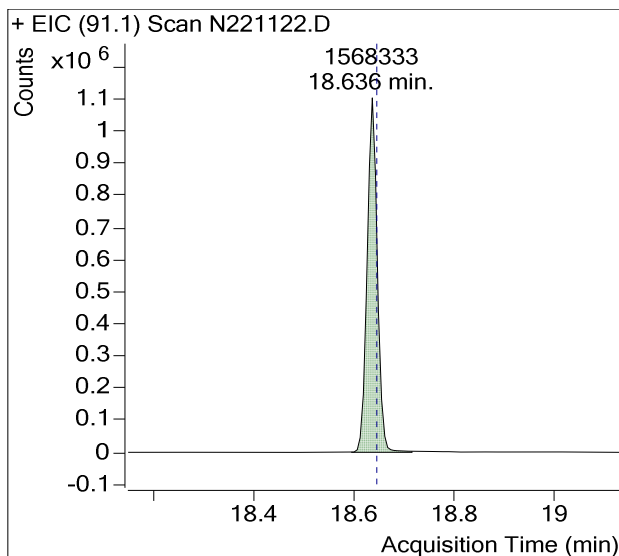


Sample Name : USSCL-PT10-S-20221122
Sample Info : B42761
Data File : N221122.D
Acquisition Date : 2022-12-09 05:05:00
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

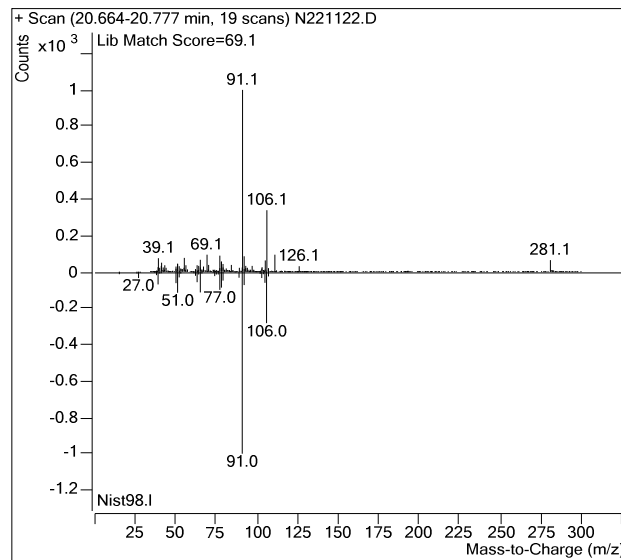
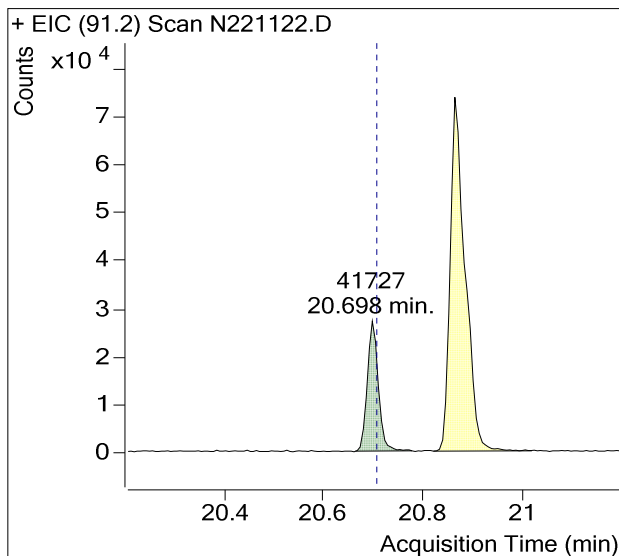


Toluene

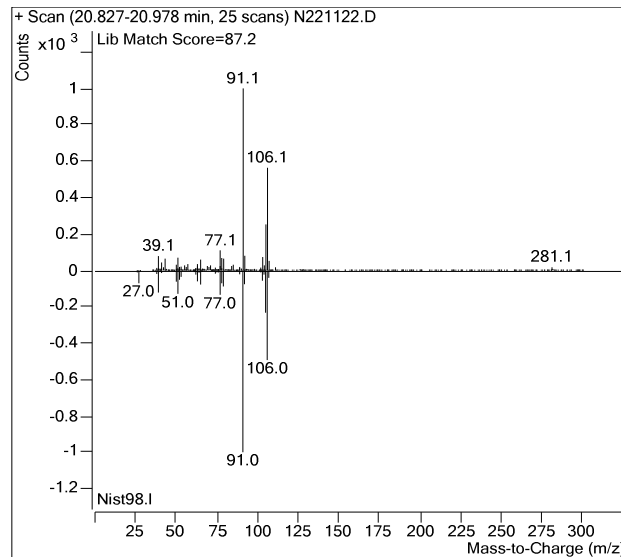
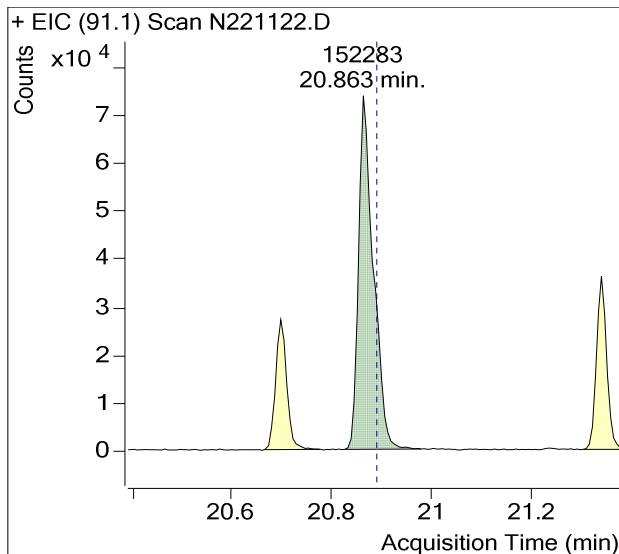


Sample Name : USSCL-PT10-S-20221122
Sample Info : B42761
Data File : N221122.D
Acquisition Date : 2022-12-09 05:05:00
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

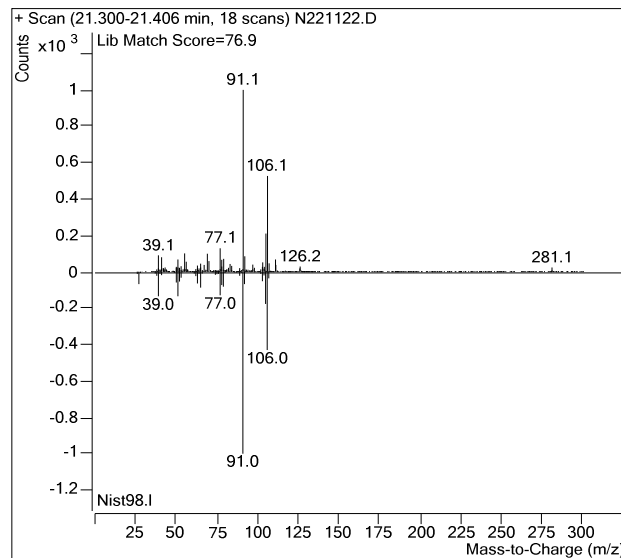
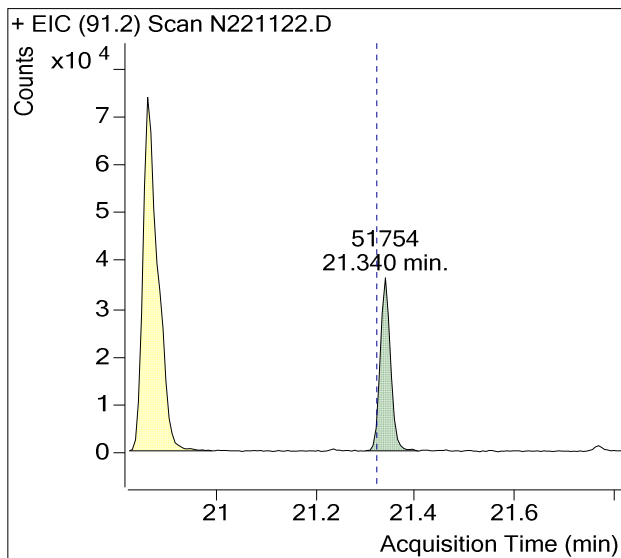


m-/p-Xylenes

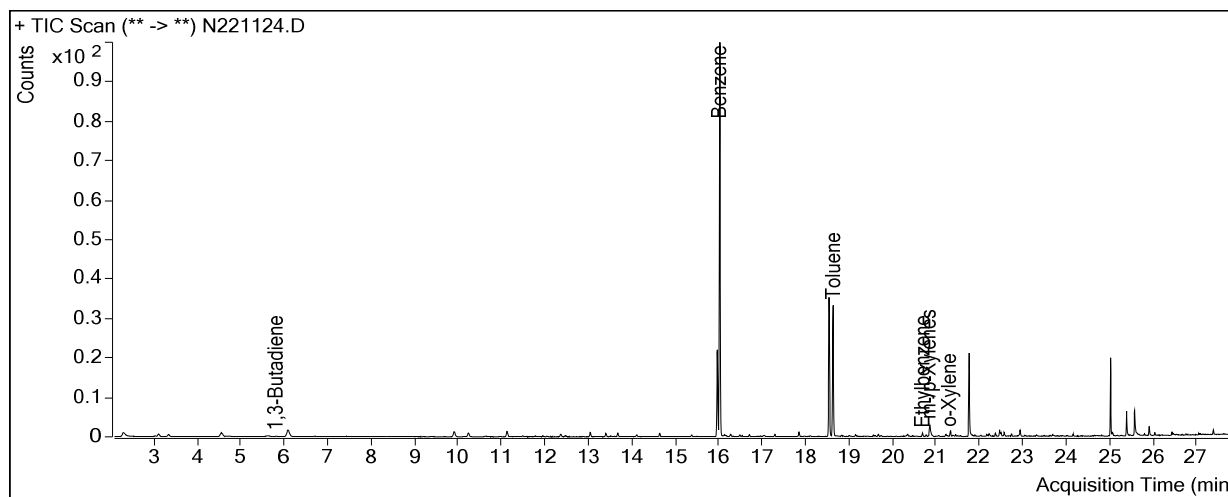


Sample Name : USSCL-PT10-S-20221122
Sample Info : B42761
Data File : N221122.D
Acquisition Date : 2022-12-09 05:05:00
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



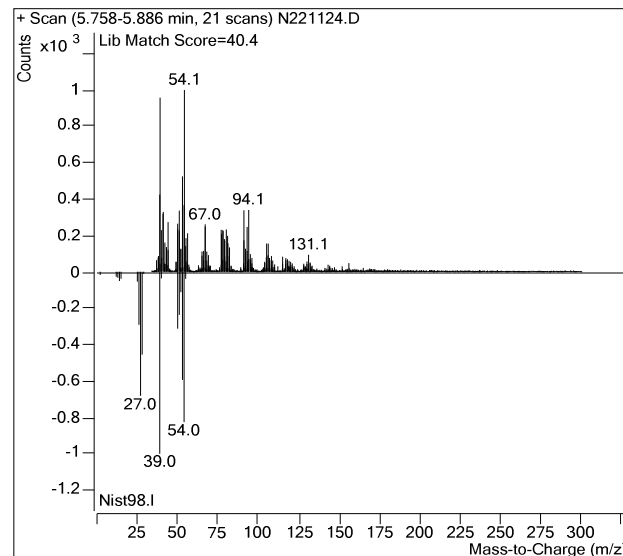
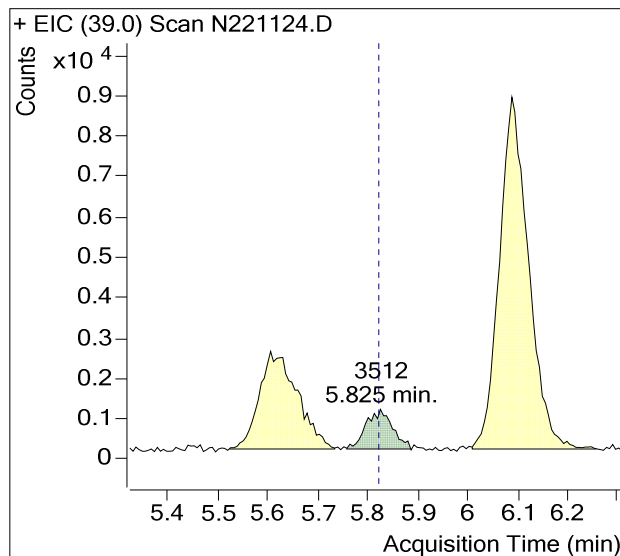
Sample Name : USSCL-PT10-D-20221122
Sample Info : C02034
Data File : N221124.D
Acquisition Date : 2022-12-09 06:24:34
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	3,512	
Benzene-d6 (IS)	15.97	1,303,730	
Benzene	16.03	5,006,480	
Toluene-d8 (IS)	18.55	1,495,943	
Toluene	18.64	1,525,046	
Ethylbenzene	20.70	44,460	
m-/p-Xylenes	20.89	154,267	
o-Xylene	21.32	52,762	

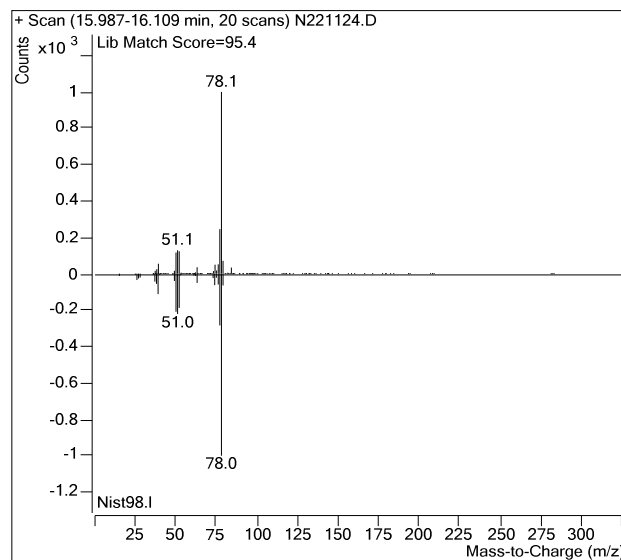
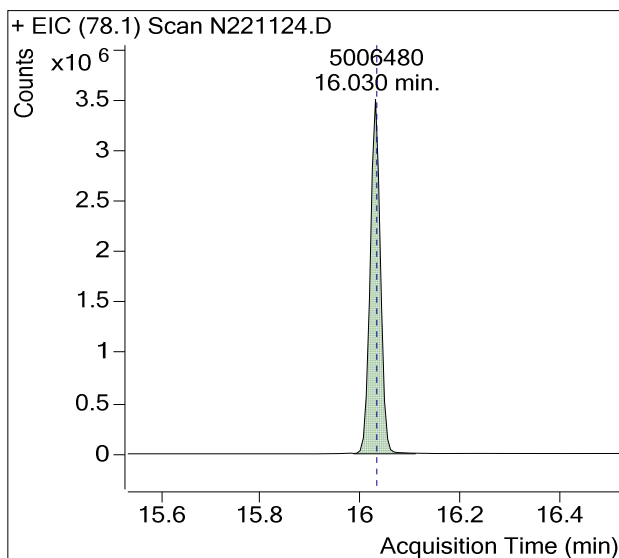
(m)=Manual Integration

1,3-Butadiene

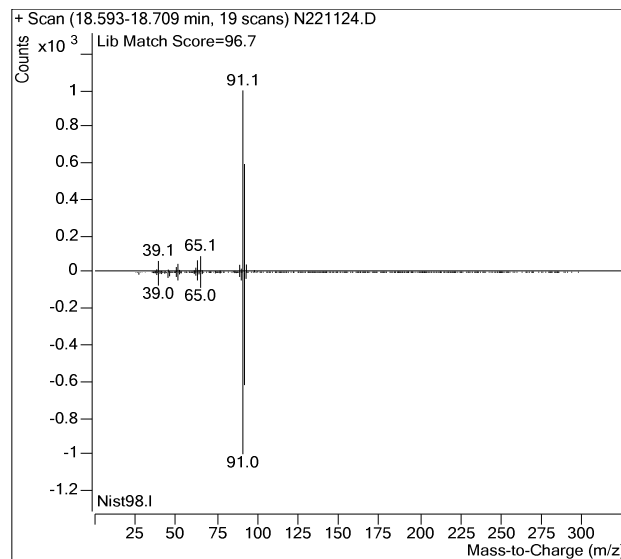
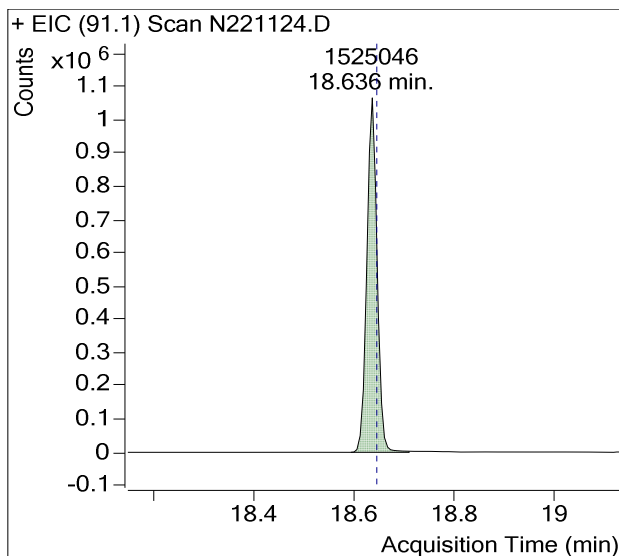


Sample Name : USSCL-PT10-D-20221122
Sample Info : C02034
Data File : N221124.D
Acquisition Date : 2022-12-09 06:24:34
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

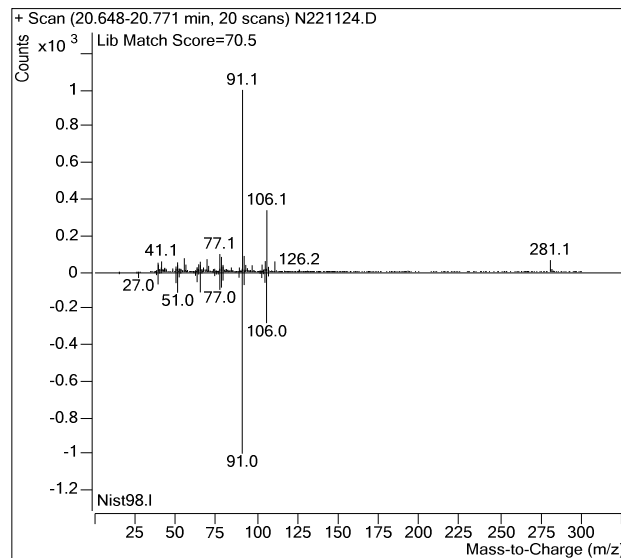
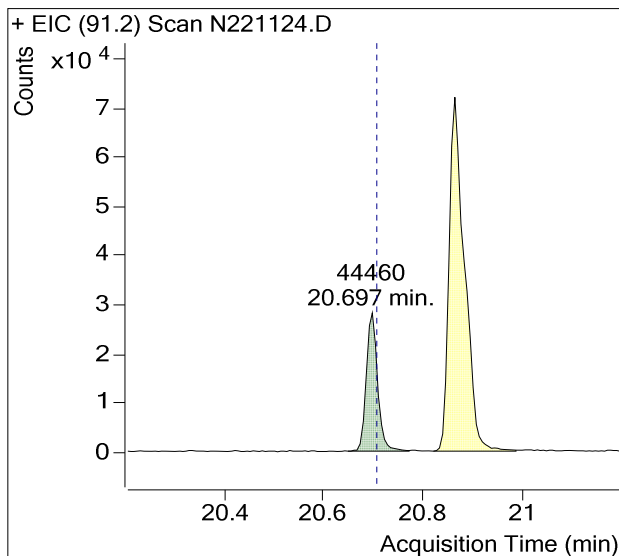


Toluene

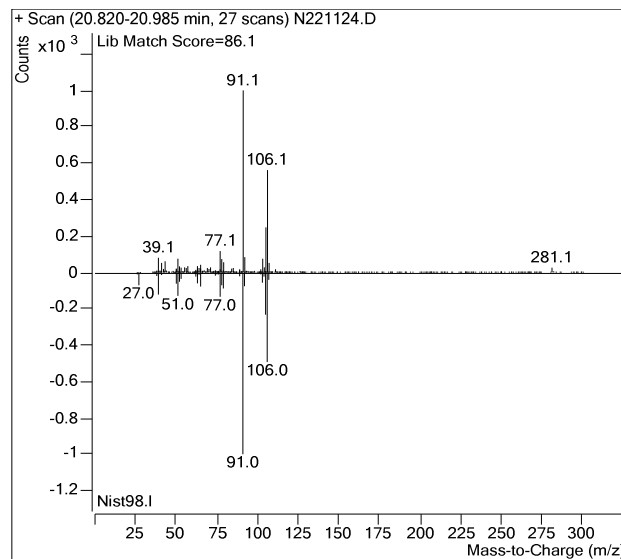
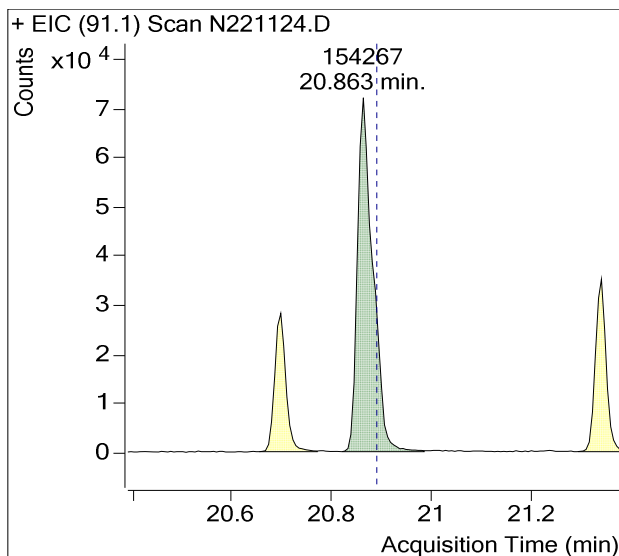


Sample Name : USSCL-PT10-D-20221122
Sample Info : C02034
Data File : N221124.D
Acquisition Date : 2022-12-09 06:24:34
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

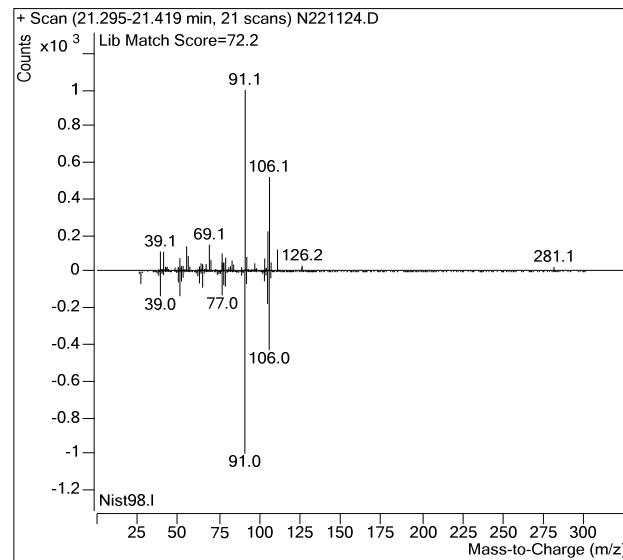
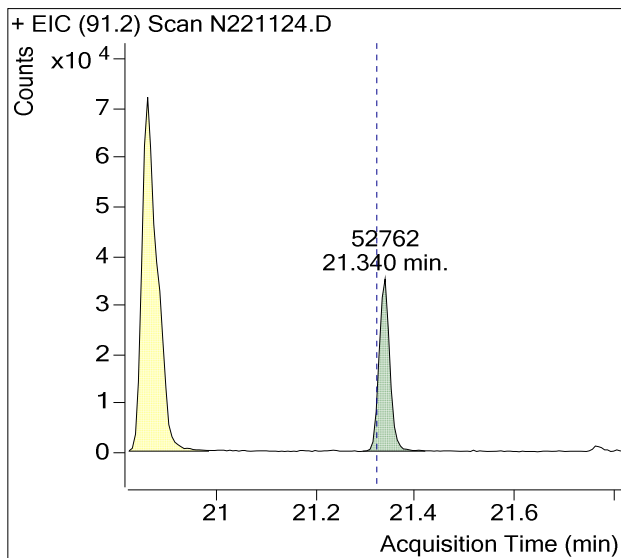


m-/p-Xylenes

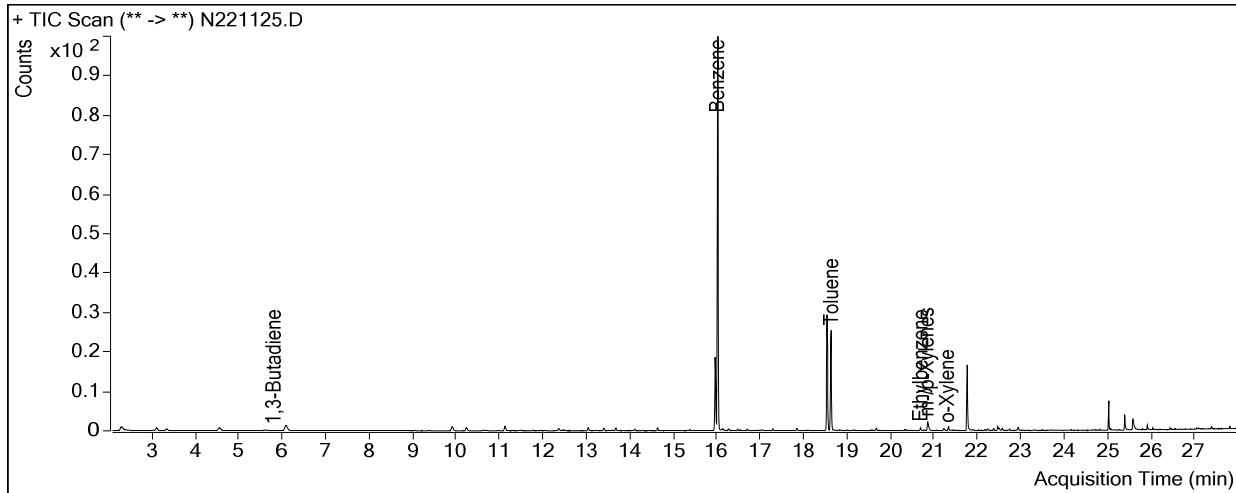


Sample Name : USSCL-PT10-D-20221122
Sample Info : C02034
Data File : N221124.D
Acquisition Date : 2022-12-09 06:24:34
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



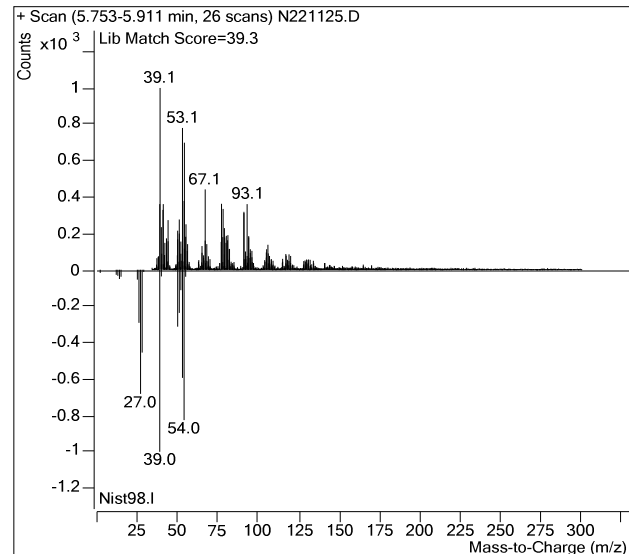
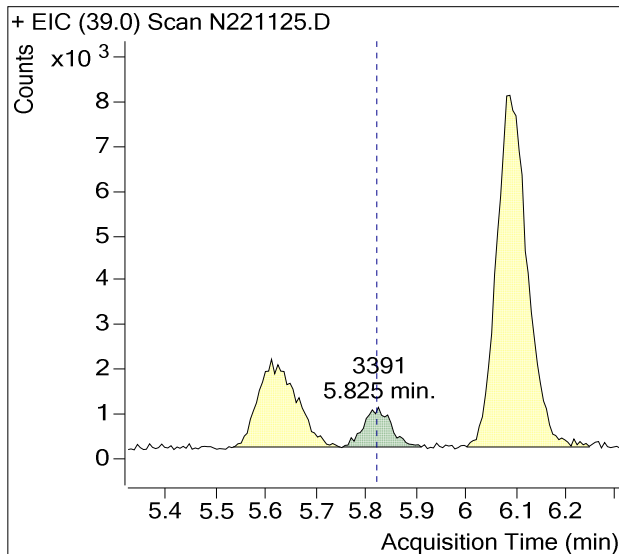
Sample Name : USSCL-PT11-S-20221122
Sample Info : B50728
Data File : N221125.D
Acquisition Date : 2022-12-09 07:04:22
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	3,391	
Benzene-d6 (IS)	15.97	1,270,515	
Benzene	16.03	5,828,879	
Toluene-d8 (IS)	18.55	1,462,452	
Toluene	18.64	1,385,625	
Ethylbenzene	20.70	39,507	
m-/p-Xylenes	20.89	130,463	
o-Xylene	21.32	43,056	

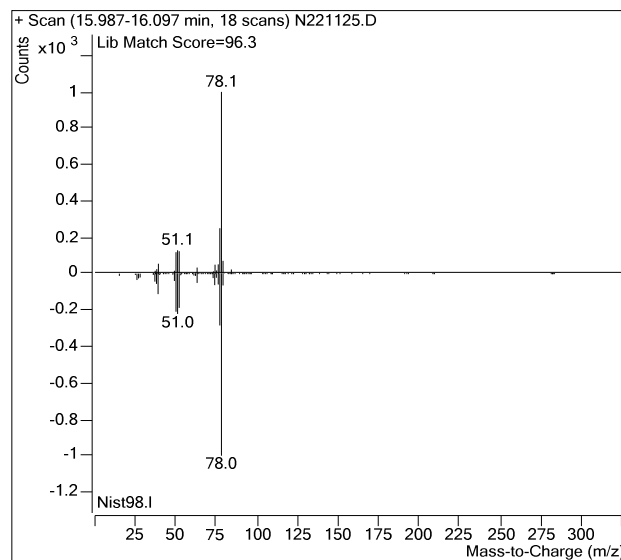
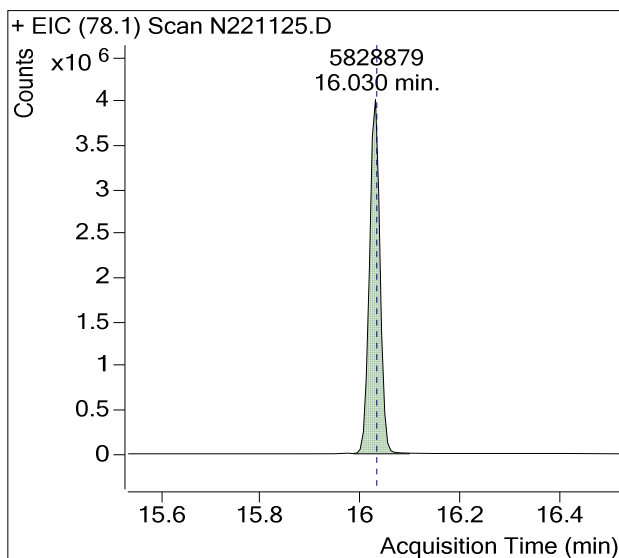
(m)=Manual Integration

1,3-Butadiene

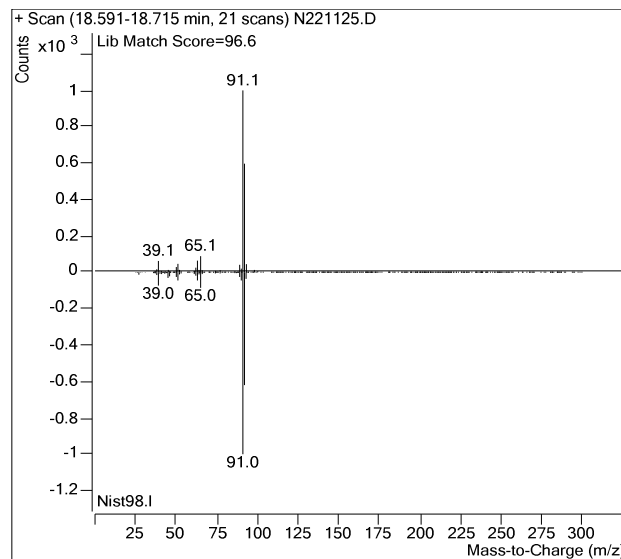
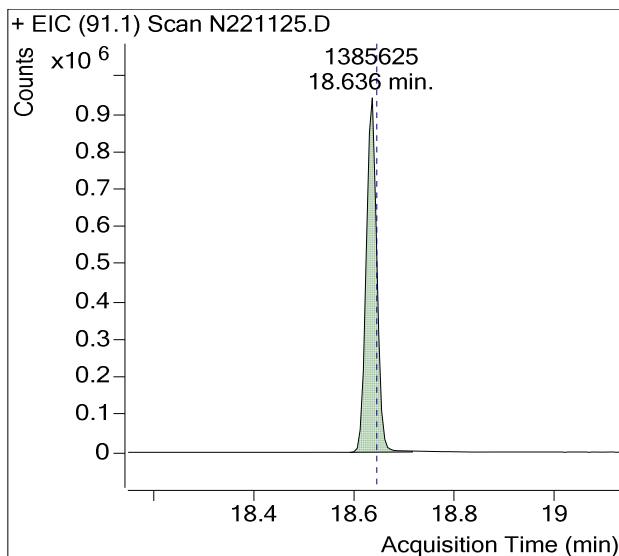


Sample Name : USSCL-PT11-S-20221122
Sample Info : B50728
Data File : N221125.D
Acquisition Date : 2022-12-09 07:04:22
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

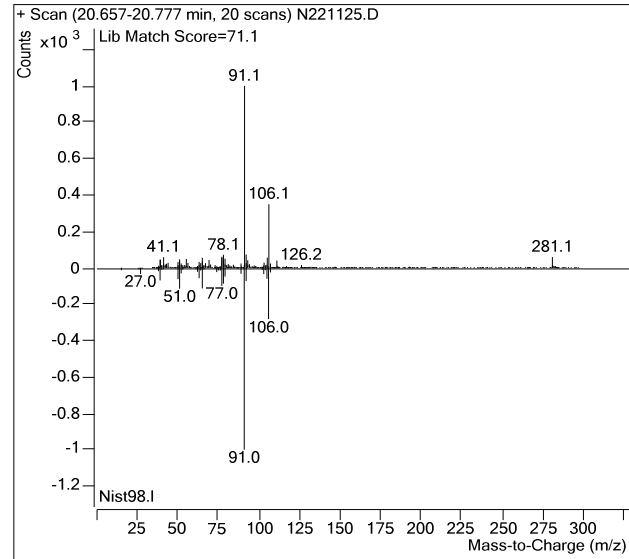
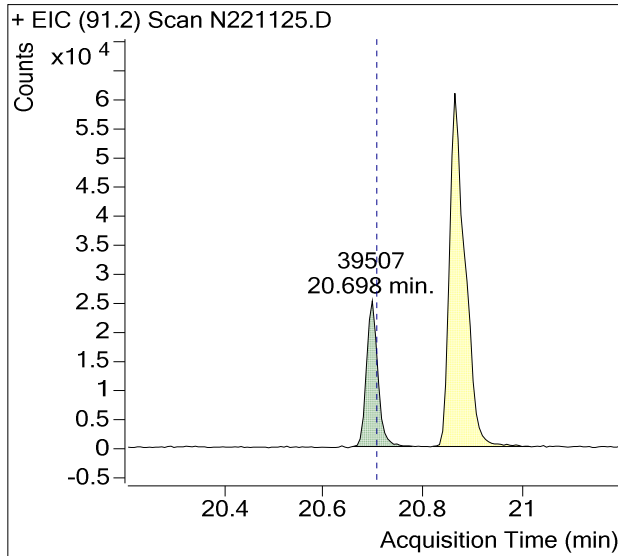


Toluene

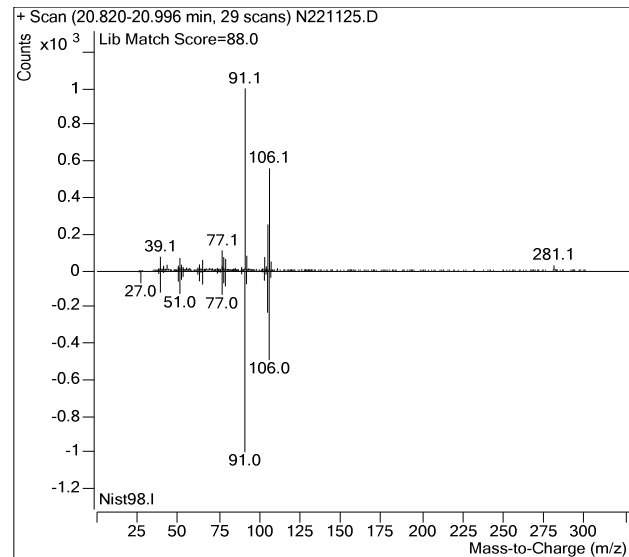
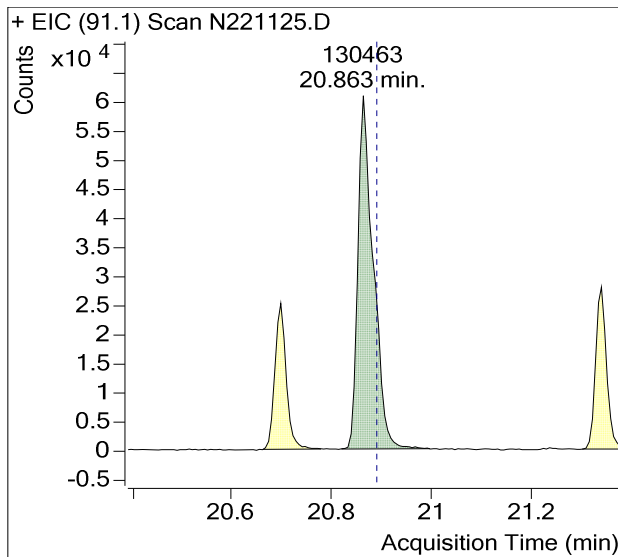


Sample Name : USSCL-PT11-S-20221122
Sample Info : B50728
Data File : N221125.D
Acquisition Date : 2022-12-09 07:04:22
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

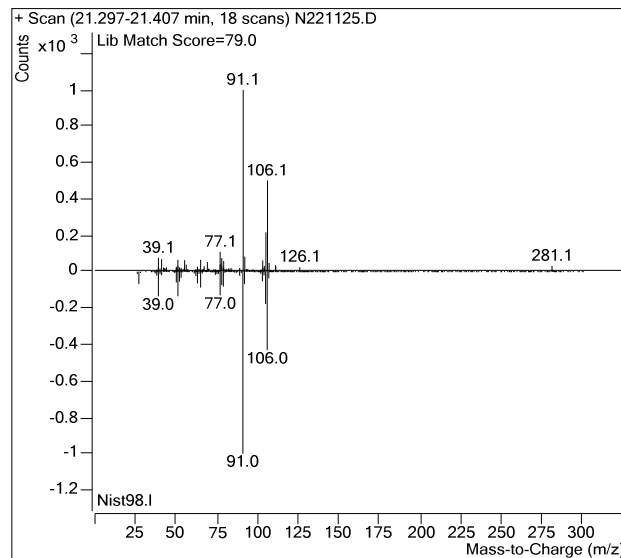
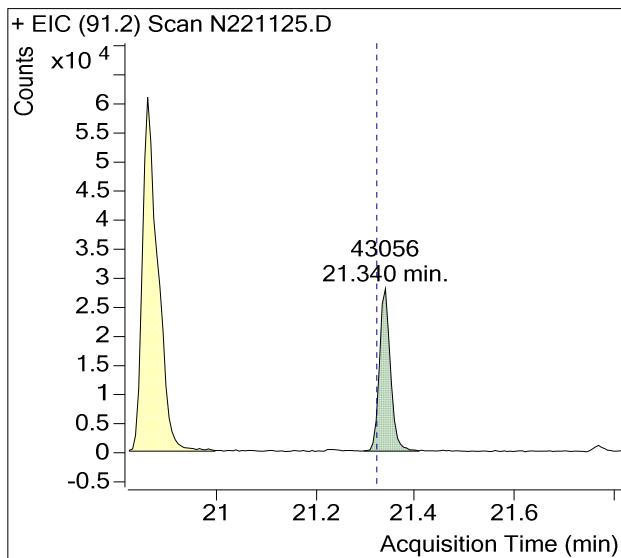


m-/p-Xylenes

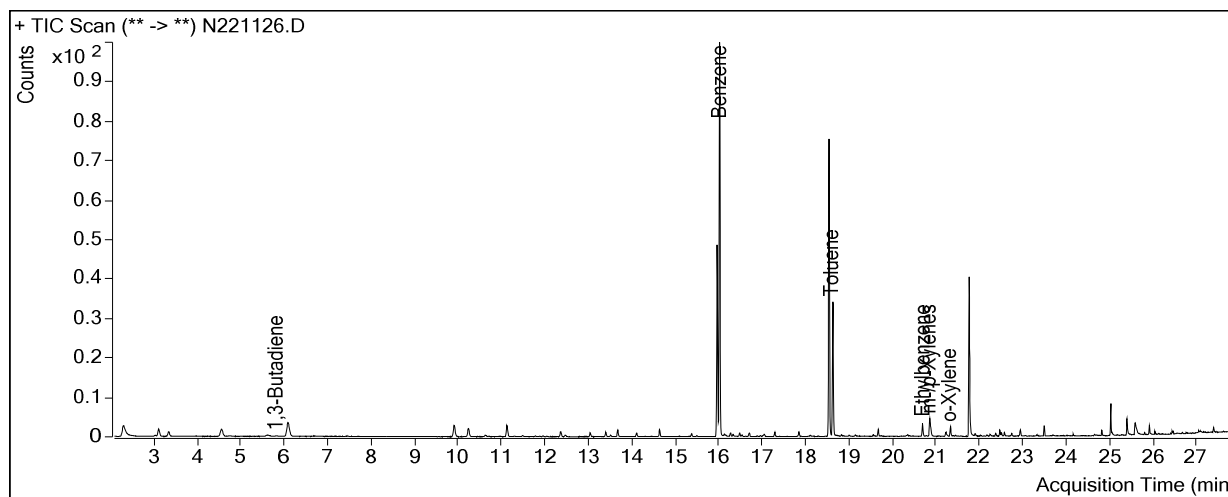


Sample Name : USSCL-PT11-S-20221122
Sample Info : B50728
Data File : N221125.D
Acquisition Date : 2022-12-09 07:04:22
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



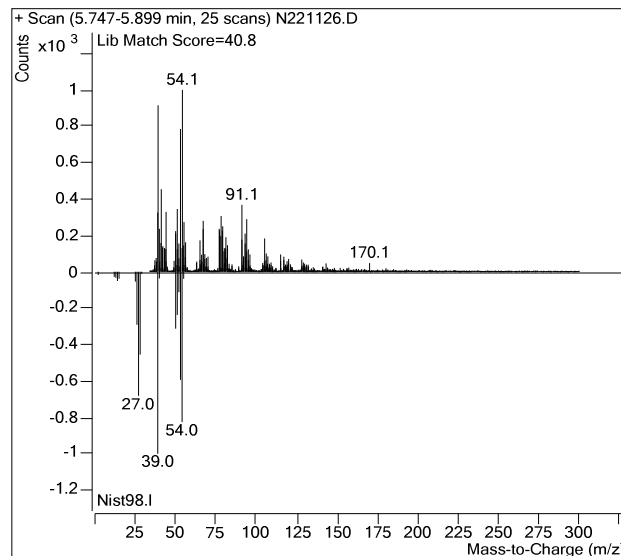
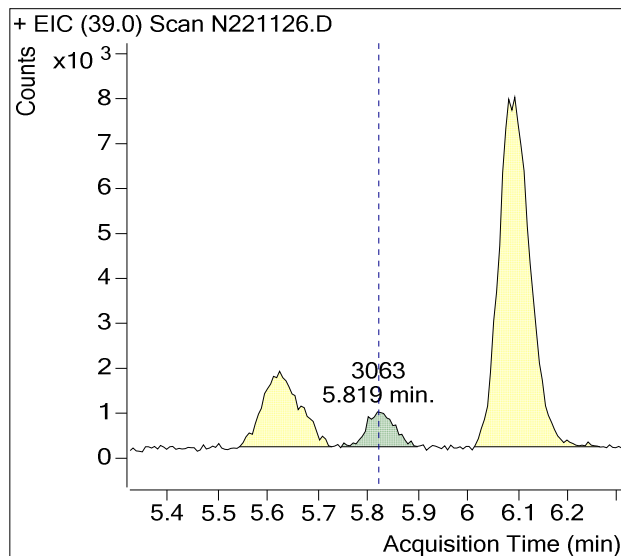
Sample Name : USSCL-PT12-S-20221122
Sample Info : B19821
Data File : N221126.D
Acquisition Date : 2022-12-09 07:44:09
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	3,063	
Benzene-d6 (IS)	15.97	1,279,594	
Benzene	16.03	2,451,189	
Toluene-d8 (IS)	18.55	1,484,722	
Toluene	18.64	787,128	
Ethylbenzene	20.70	79,225	
m-/p-Xylenes	20.89	116,553	
o-Xylene	21.32	44,307	

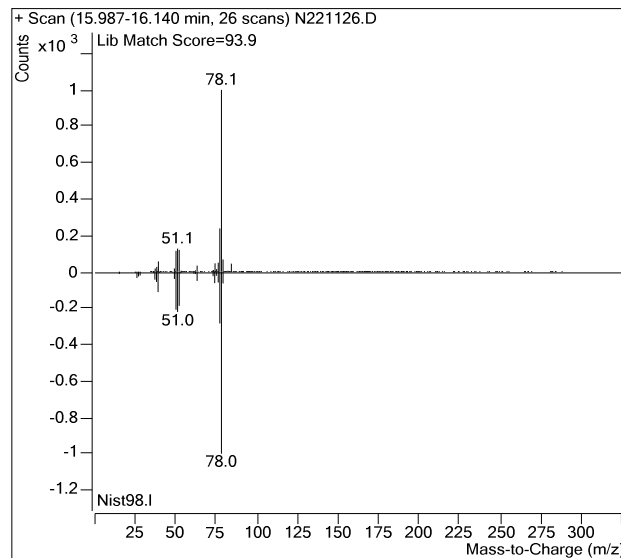
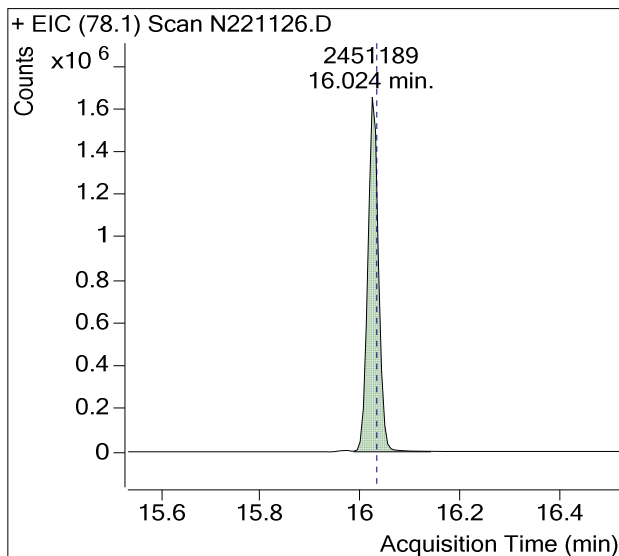
(m)=Manual Integration

1,3-Butadiene

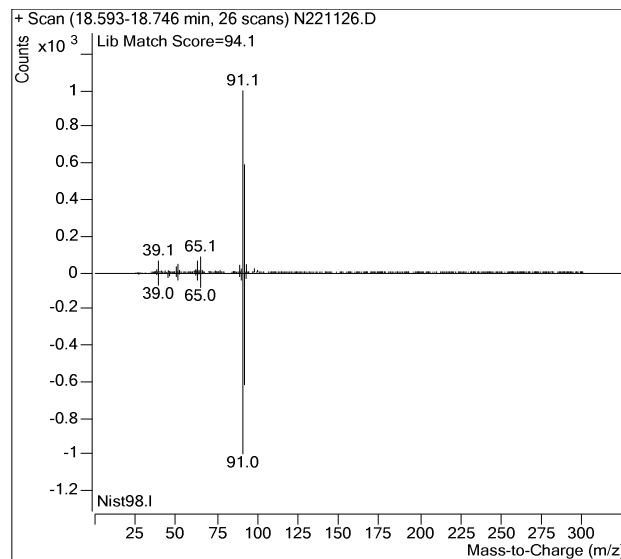
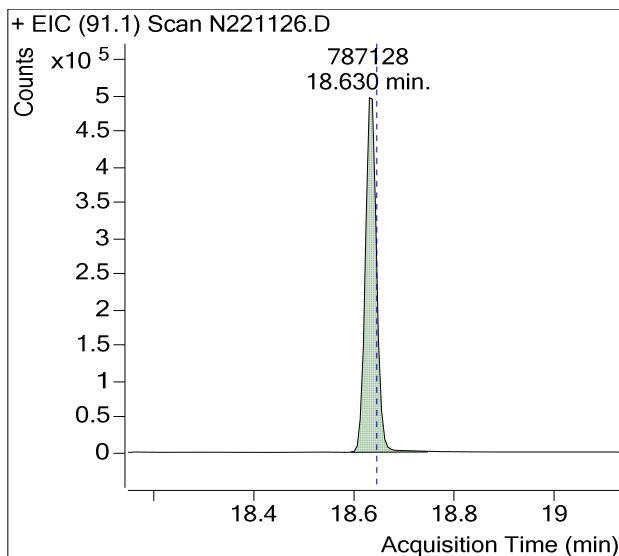


Sample Name : USSCL-PT12-S-20221122
Sample Info : B19821
Data File : N221126.D
Acquisition Date : 2022-12-09 07:44:09
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

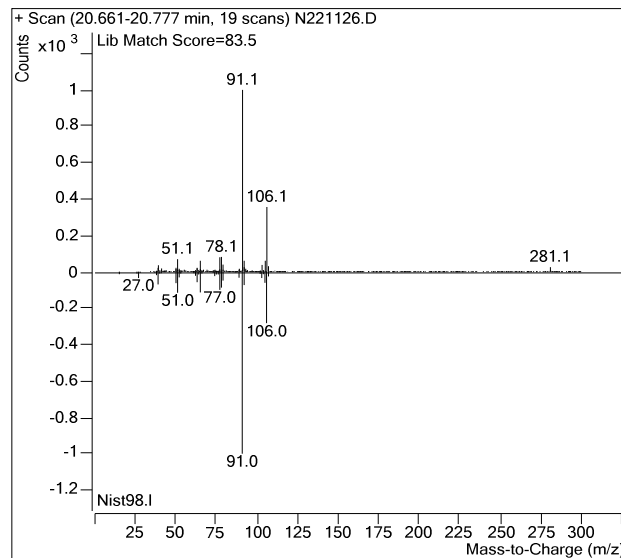
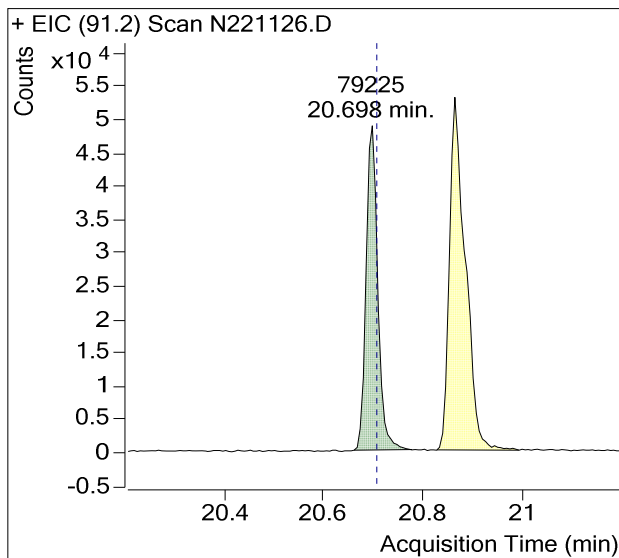


Toluene

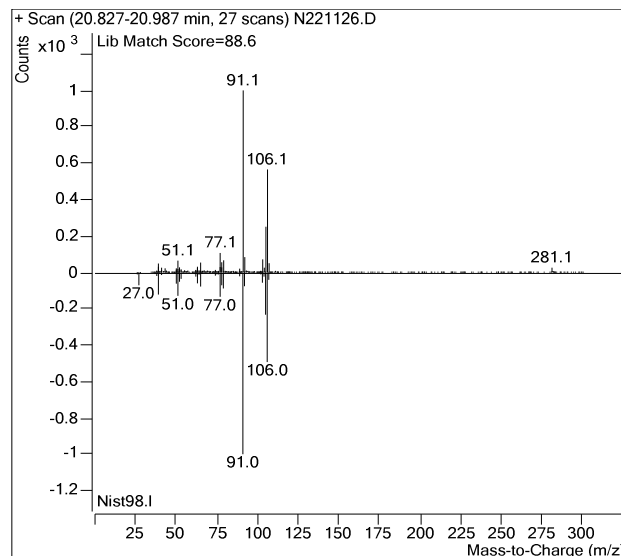
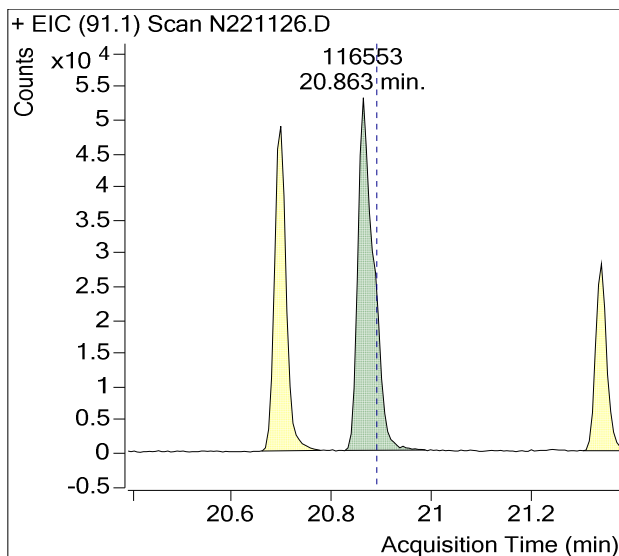


Sample Name : USSCL-PT12-S-20221122
Sample Info : B19821
Data File : N221126.D
Acquisition Date : 2022-12-09 07:44:09
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

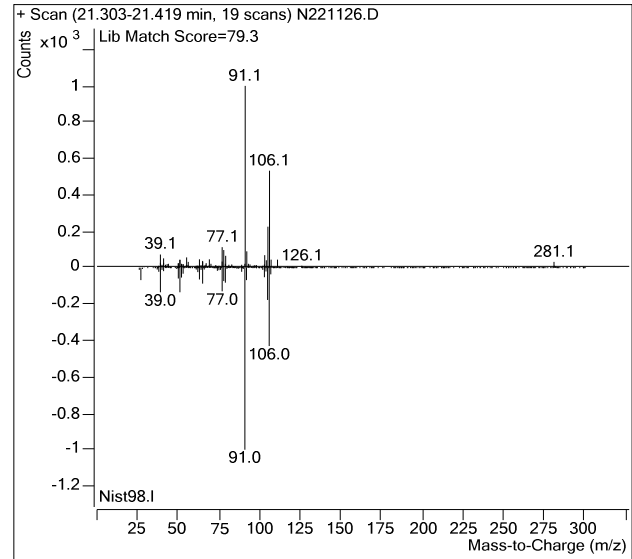
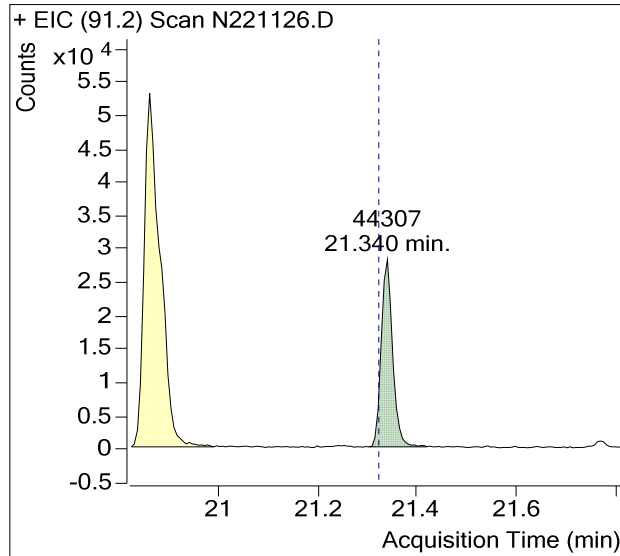


m-/p-Xylenes

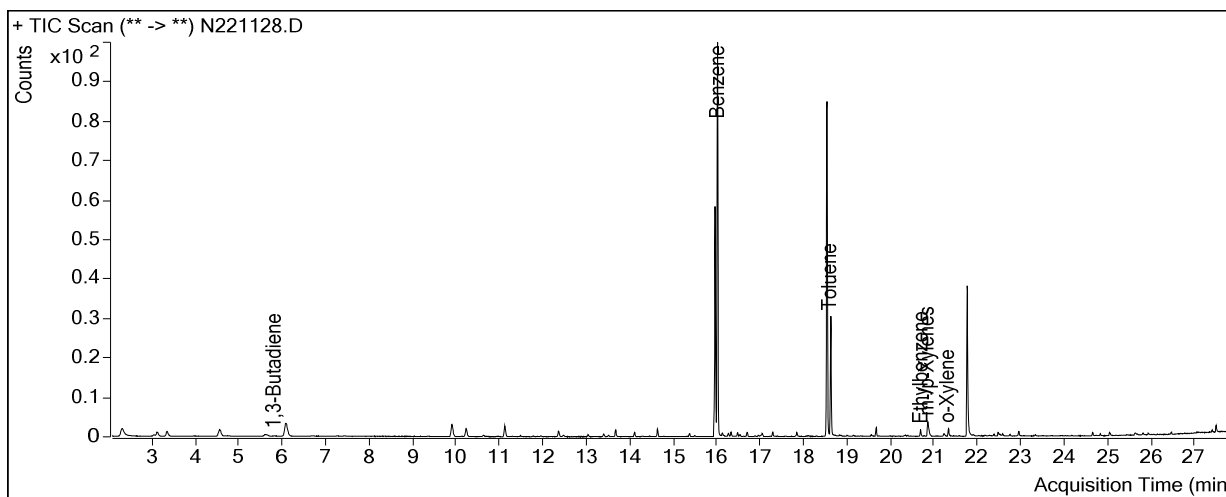


Sample Name : USSCL-PT12-S-20221122
Sample Info : B19821
Data File : N221126.D
Acquisition Date : 2022-12-09 07:44:09
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



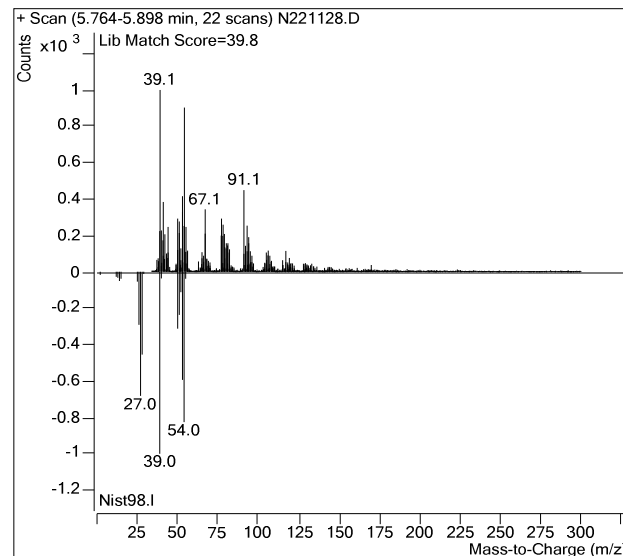
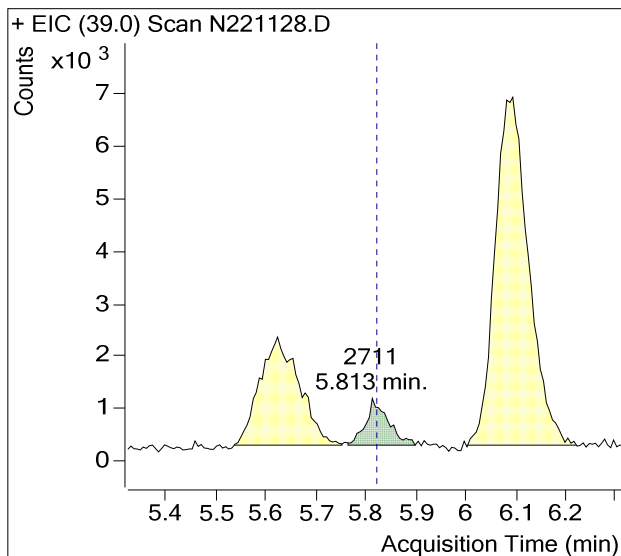
Sample Name : USSCL-PT03-S-20221122
Sample Info : B15109;Recollect
Data File : N221128.D
Acquisition Date : 2022-12-09 10:43:35
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	2,711	
Benzene-d6 (IS)	15.97	1,386,596	
Benzene	16.03	2,176,915	
Toluene-d8 (IS)	18.55	1,542,490	
Toluene	18.64	597,298	
Ethylbenzene	20.70	37,584	
m-/p-Xylenes	20.89	91,796	
o-Xylene	21.32	34,290	

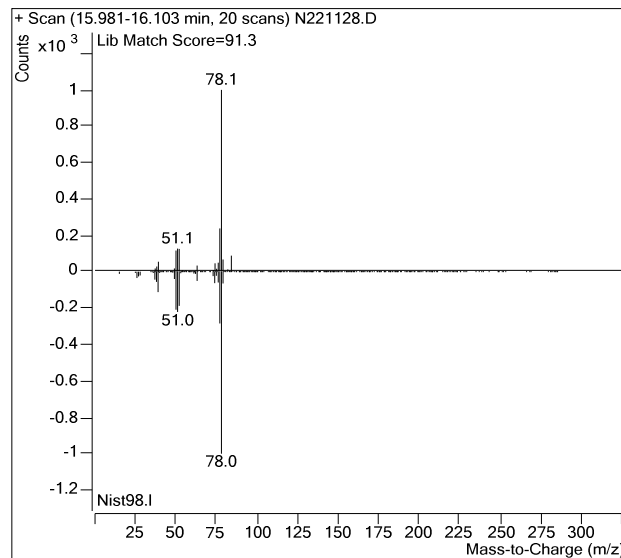
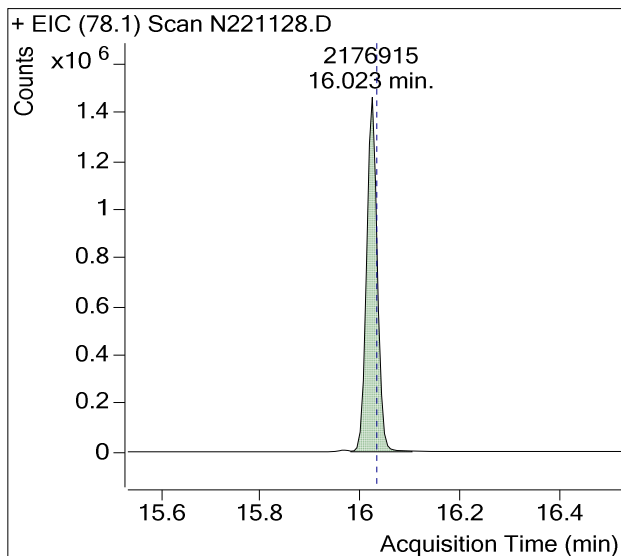
(m)=Manual Integration

1,3-Butadiene

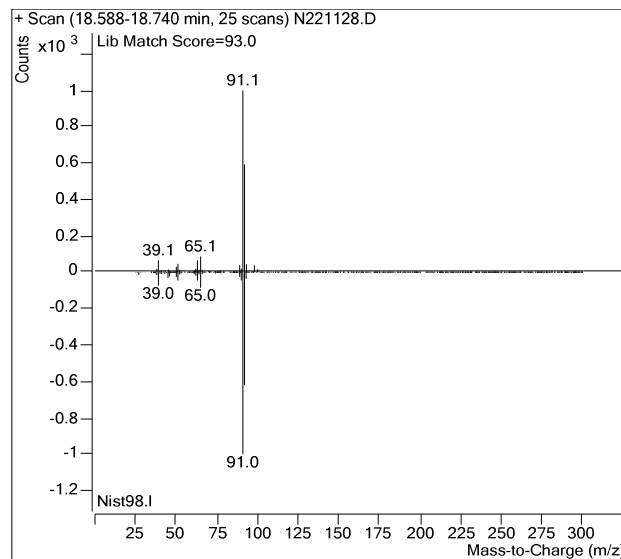
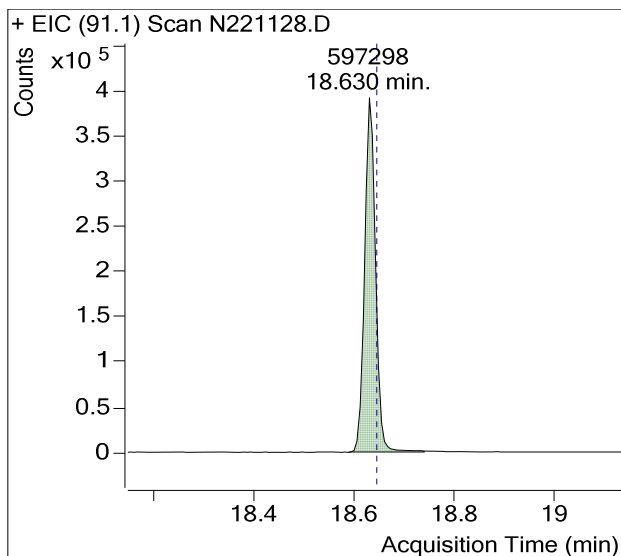


Sample Name : USSCL-PT03-S-20221122
Sample Info : B15109;Recollect
Data File : N221128.D
Acquisition Date : 2022-12-09 10:43:35
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

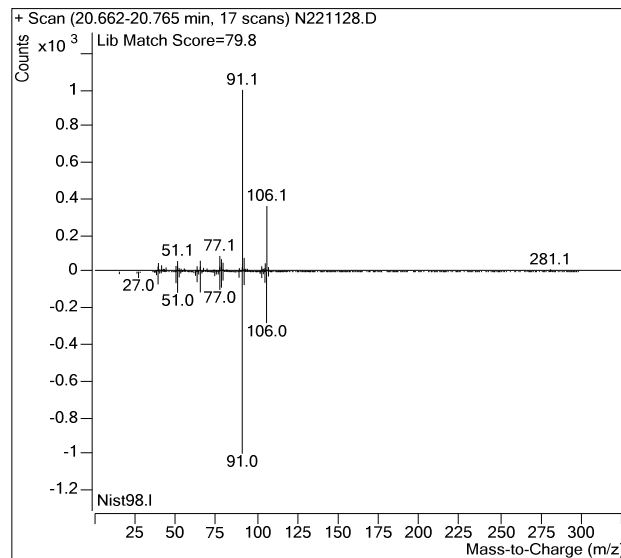
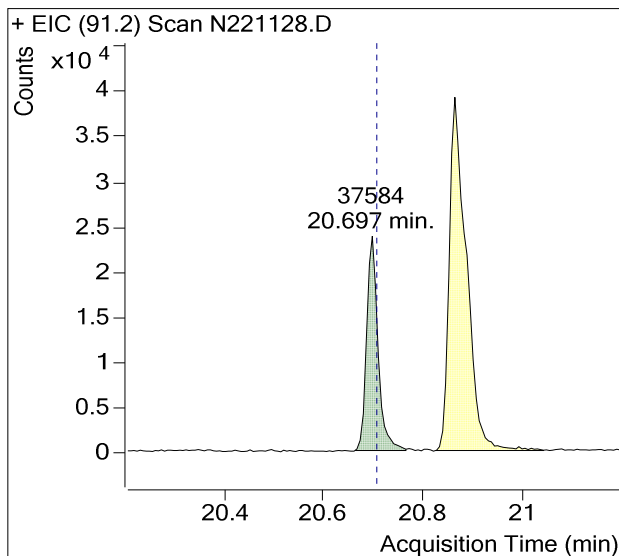


Toluene

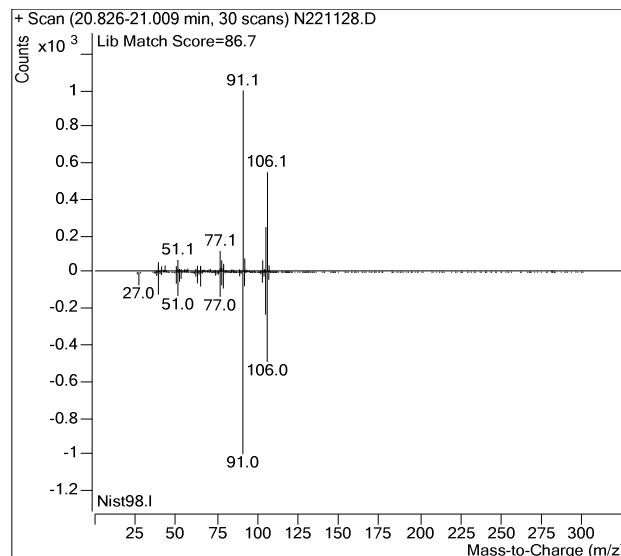
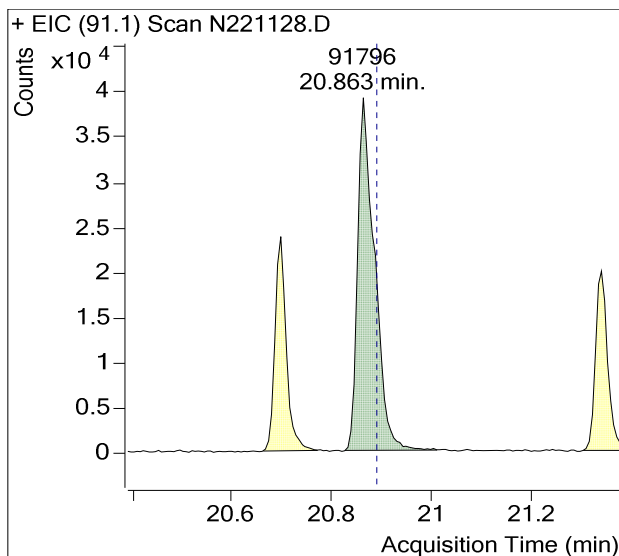


Sample Name : USSCL-PT03-S-20221122
Sample Info : B15109;Recollect
Data File : N221128.D
Acquisition Date : 2022-12-09 10:43:35
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

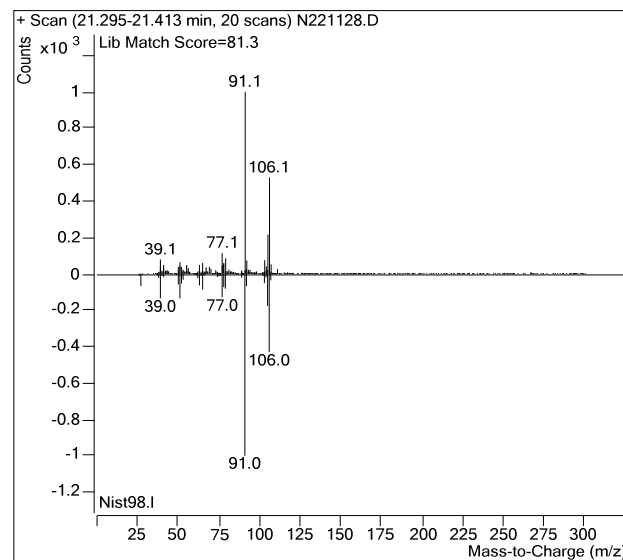
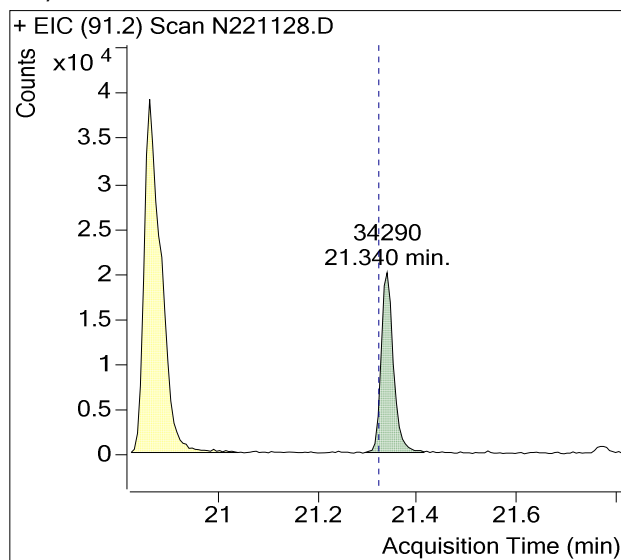


m-/p-Xylenes



Sample Name : USSCL-PT03-S-20221122
Sample Info : B15109;Recollect
Data File : N221128.D
Acquisition Date : 2022-12-09 10:43:35
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



Calibration Summary Reports



Enthalpy Analytical

Company: All4, Inc.
Job No.: 2022EE104-1 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	0.234	0.256	0.234	-8.7%	-14%		Pass	
2022EE104 Method Blank	Blank		0.256	0.234			-1.7%	Pass	ND
M325B CCV 5	Check	0.222	0.256	0.234	-13%		-0.35%	Pass	
M325B CCV 5	Check	0.217	0.256	0.234	-15%		0.76%	Pass	
M325B CCV 5	Check	0.234	0.256	0.234	-8.6%		-4.9%	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	1.052	1.088	1.052	-3.3%	-14%		Pass	
2022EE104 Method Blank	Blank		1.088	1.052			-1.7%	Pass	ND
M325B CCV 5	Check	1.009	1.088	1.052	-7.3%		-0.35%	Pass	
M325B CCV 5	Check	1.000	1.088	1.052	-8.1%		0.76%	Pass	
M325B CCV 5	Check	1.046	1.088	1.052	-3.9%		-4.9%	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	1.464	1.679	1.464	-13%	-16%		Pass	
2022EE104 Method Blank	Blank		1.679	1.464			-5.6%	Pass	ND
M325B CCV 5	Check	1.422	1.679	1.464	-15%		-0.87%	Pass	
M325B CCV 5	Check	1.411	1.679	1.464	-16%		0.89%	Pass	
M325B CCV 5	Check	1.509	1.679	1.464	-10%		-5.9%	Pass	

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	1.006	1.316	1.006	-24%	-16%		Pass	
2022EE104 Method Blank	Blank		1.316	1.006			-5.6%	Pass	ND
M325B CCV 5	Check	0.984	1.316	1.006	-25%		-0.87%	Pass	
M325B CCV 5	Check	0.978	1.316	1.006	-26%		0.89%	Pass	
M325B CCV 5	Check	1.059	1.316	1.006	-19%		-5.9%	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	1.110	1.457	1.110	-24%	-16%		Pass	
2022EE104 Method Blank	Blank		1.457	1.110			-5.6%	Pass	ND
M325B CCV 5	Check	1.086	1.457	1.110	-25%		-0.87%	Pass	
M325B CCV 5	Check	1.064	1.457	1.110	-27%		0.89%	Pass	
M325B CCV 5	Check	1.172	1.457	1.110	-20%		-5.9%	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	1.282	1.383	1.282	-7.3%	-16%		Pass	
2022EE104 Method Blank	Blank		1.383	1.282			-5.6%	Pass	ND
M325B CCV 5	Check	1.238	1.383	1.282	-10%		-0.87%	Pass	
M325B CCV 5	Check	1.216	1.383	1.282	-12%		0.89%	Pass	
M325B CCV 5	Check	1.297	1.383	1.282	-6.2%		-5.9%	Pass	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE104-1 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	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%	
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%	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE104-1 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	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%	
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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