

# All4, Inc.

2393 Kimberton Road  
Kimberton, PA 19442

## Coke Oven ICR Sampling Event #08

US Steel Corp - Clairton Works ICR

Project: 00701-0002.00

## Analytical Report (2023EE103)

### *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](http://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)

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*Nicole West*

Report Issued: 02/15/2023



# Summary of Results

# Enthalpy Analytical

Company: All4, Inc.  
Job No.: 2023EE103-1 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-20230117	B37551		ND	4.78			ND		ND		ND	1.56	
USSCL-PT02-S-20230117	B28066		ND	2.25			ND		ND		ND	1.65	
USSCL-PT03-S-20230117	B46909		ND	3.84			ND		ND		ND	3.59	
USSCL-PT04-S-20230117	C20516		ND	4.77			ND		ND		ND	3.14	
USSCL-PT05-S-20230117	B17448		ND	2.17			ND		ND		ND	5.28	
USSCL-PT06-S-20230117	B18397		ND	3.18			ND		ND		ND	3.61	
USSCL-PT07-S-20230117	B43665		ND	1.41			ND		ND		ND	3.41	
USSCL-PT08-S-20230117	B20888		ND	2.05			ND		ND		ND	3.22	
USSCL-PT09-S-20230117	B46357		ND	9.11			ND	1.06			ND	6.51	
USSCL-PT10-S-20230117	C20585		ND	23.6			ND	1.58			ND	6.36	
USSCL-PT10-D-20230117	B47074		ND	23.1			ND	1.67			ND	6.32	
USSCL-PT10-B-20230117	B28173		ND		ND		ND		ND		ND		ND
USSCL-PT11-S-20230117	B31697		ND	17.0			ND	1.28			ND	4.14	
USSCL-PT12-S-20230117	B27784		ND	4.83			ND		ND		ND	1.68	

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

# Results

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE103-1 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-20230117	B37551				38.8	0.434	20,155	0.610	0.610	0.276	0.276	ND
USSCL-PT02-S-20230117	B28066				38.8	0.434	20,155	0.610	0.610	0.276	0.276	ND
USSCL-PT03-S-20230117	B46909				38.8	0.434	20,156	0.609	0.609	0.276	0.276	ND
USSCL-PT04-S-20230117	C20516				38.8	0.434	20,156	0.609	0.609	0.276	0.276	ND
USSCL-PT05-S-20230117	B17448				38.8	0.434	20,156	0.609	0.609	0.276	0.276	ND
USSCL-PT06-S-20230117	B18397				38.8	0.434	20,155	0.610	0.610	0.276	0.276	ND
USSCL-PT07-S-20230117	B43665				38.8	0.434	20,155	0.610	0.610	0.276	0.276	ND
USSCL-PT08-S-20230117	B20888				38.8	0.434	20,138	0.610	0.610	0.276	0.276	ND
USSCL-PT09-S-20230117	B46357				38.8	0.434	20,137	0.610	0.610	0.276	0.276	ND
USSCL-PT10-S-20230117	C20585				38.8	0.434	20,136	0.610	0.610	0.276	0.276	ND
USSCL-PT10-D-20230117	B47074				38.8	0.434	20,136	0.610	0.610	0.276	0.276	ND
USSCL-PT10-B-20230117	B28173				38.8	0.434	20,141	0.610	0.610	0.276	0.276	ND
USSCL-PT11-S-20230117	B31697				38.8	0.434	20,137	0.610	0.610	0.276	0.276	ND
USSCL-PT12-S-20230117	B27784				38.8	0.434	20,136	0.610	0.610	0.276	0.276	ND

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE103-1 EPA Method 325B Analysis

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

### 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-20230117	B37551	4.78	1.50	62.2	38.8	0.646	20,155	0.192	0.410	0.0602	0.128	
USSCL-PT02-S-20230117	B28066	2.25	0.704	29.3	38.8	0.646	20,155	0.192	0.410	0.0602	0.128	
USSCL-PT03-S-20230117	B46909	3.84	1.20	50.0	38.8	0.646	20,156	0.192	0.410	0.0602	0.128	
USSCL-PT04-S-20230117	C20516	4.77	1.49	62.1	38.8	0.646	20,156	0.192	0.410	0.0602	0.128	
USSCL-PT05-S-20230117	B17448	2.17	0.681	28.3	38.8	0.646	20,156	0.192	0.410	0.0602	0.128	
USSCL-PT06-S-20230117	B18397	3.18	0.997	41.4	38.8	0.646	20,155	0.192	0.410	0.0602	0.128	
USSCL-PT07-S-20230117	B43665	1.41	0.443	18.4	38.8	0.646	20,155	0.192	0.410	0.0602	0.128	
USSCL-PT08-S-20230117	B20888	2.05	0.642	26.7	38.8	0.646	20,138	0.192	0.410	0.0602	0.129	
USSCL-PT09-S-20230117	B46357	9.11	2.85	118	38.8	0.646	20,137	0.192	0.410	0.0602	0.129	
USSCL-PT10-S-20230117	C20585	23.6	7.39	307	38.8	0.646	20,136	0.192	0.410	0.0602	0.129	
USSCL-PT10-D-20230117	B47074	23.1	7.22	300	38.8	0.646	20,136	0.192	0.410	0.0602	0.129	
USSCL-PT10-B-20230117	B28173				38.8	0.646	20,141	0.192	0.410	0.0602	0.129	ND
USSCL-PT11-S-20230117	B31697	17.0	5.32	221	38.8	0.646	20,137	0.192	0.410	0.0602	0.129	
USSCL-PT12-S-20230117	B27784	4.83	1.51	62.8	38.8	0.646	20,136	0.192	0.410	0.0602	0.129	

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE103-1 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-20230117	B37551				38.8	0.443	20,155	0.614	0.614	0.141	0.141	ND
USSCL-PT02-S-20230117	B28066				38.8	0.443	20,155	0.614	0.614	0.141	0.141	ND
USSCL-PT03-S-20230117	B46909				38.8	0.443	20,156	0.614	0.614	0.141	0.141	ND
USSCL-PT04-S-20230117	C20516				38.8	0.443	20,156	0.614	0.614	0.141	0.141	ND
USSCL-PT05-S-20230117	B17448				38.8	0.443	20,156	0.614	0.614	0.141	0.141	ND
USSCL-PT06-S-20230117	B18397				38.8	0.443	20,155	0.614	0.614	0.141	0.141	ND
USSCL-PT07-S-20230117	B43665				38.8	0.443	20,155	0.614	0.614	0.141	0.141	ND
USSCL-PT08-S-20230117	B20888				38.8	0.443	20,138	0.614	0.614	0.142	0.142	ND
USSCL-PT09-S-20230117	B46357				38.8	0.443	20,137	0.614	0.614	0.142	0.142	ND
USSCL-PT10-S-20230117	C20585				38.8	0.443	20,136	0.615	0.615	0.142	0.142	ND
USSCL-PT10-D-20230117	B47074				38.8	0.443	20,136	0.614	0.614	0.142	0.142	ND
USSCL-PT10-B-20230117	B28173				38.8	0.443	20,141	0.614	0.614	0.142	0.142	ND
USSCL-PT11-S-20230117	B31697				38.8	0.443	20,137	0.614	0.614	0.142	0.142	ND
USSCL-PT12-S-20230117	B27784				38.8	0.443	20,136	0.614	0.614	0.142	0.142	ND



## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE103-1 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/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-20230117	B37551				38.8	0.443	20,155	0.618	0.618	0.142	0.142	ND
USSCL-PT02-S-20230117	B28066				38.8	0.443	20,155	0.618	0.618	0.142	0.142	ND
USSCL-PT03-S-20230117	B46909				38.8	0.443	20,156	0.618	0.618	0.142	0.142	ND
USSCL-PT04-S-20230117	C20516				38.8	0.443	20,156	0.618	0.618	0.142	0.142	ND
USSCL-PT05-S-20230117	B17448				38.8	0.443	20,156	0.618	0.618	0.142	0.142	ND
USSCL-PT06-S-20230117	B18397				38.8	0.443	20,155	0.618	0.618	0.142	0.142	ND
USSCL-PT07-S-20230117	B43665				38.8	0.443	20,155	0.618	0.618	0.142	0.142	ND
USSCL-PT08-S-20230117	B20888				38.8	0.443	20,138	0.618	0.618	0.142	0.142	ND
USSCL-PT09-S-20230117	B46357	1.06	0.243	9.43	38.8	0.443	20,137	0.618	0.618	0.142	0.142	
USSCL-PT10-S-20230117	C20585	1.58	0.364	14.1	38.8	0.443	20,136	0.618	0.618	0.143	0.143	
USSCL-PT10-D-20230117	B47074	1.67	0.386	14.9	38.8	0.443	20,136	0.618	0.618	0.142	0.142	
USSCL-PT10-B-20230117	B28173				38.8	0.443	20,141	0.618	0.618	0.142	0.142	ND
USSCL-PT11-S-20230117	B31697	1.28	0.296	11.5	38.8	0.443	20,137	0.618	0.618	0.142	0.142	
USSCL-PT12-S-20230117	B27784				38.8	0.443	20,136	0.618	0.618	0.143	0.143	ND

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE103-1 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-20230117	B37551				38.8	0.443	20,155	0.621	0.621	0.143	0.143	ND
USSCL-PT02-S-20230117	B28066				38.8	0.443	20,155	0.621	0.621	0.143	0.143	ND
USSCL-PT03-S-20230117	B46909				38.8	0.443	20,156	0.621	0.621	0.143	0.143	ND
USSCL-PT04-S-20230117	C20516				38.8	0.443	20,156	0.621	0.621	0.143	0.143	ND
USSCL-PT05-S-20230117	B17448				38.8	0.443	20,156	0.621	0.621	0.143	0.143	ND
USSCL-PT06-S-20230117	B18397				38.8	0.443	20,155	0.621	0.621	0.143	0.143	ND
USSCL-PT07-S-20230117	B43665				38.8	0.443	20,155	0.621	0.621	0.143	0.143	ND
USSCL-PT08-S-20230117	B20888				38.8	0.443	20,138	0.622	0.622	0.143	0.143	ND
USSCL-PT09-S-20230117	B46357				38.8	0.443	20,137	0.622	0.622	0.143	0.143	ND
USSCL-PT10-S-20230117	C20585				38.8	0.443	20,136	0.622	0.622	0.143	0.143	ND
USSCL-PT10-D-20230117	B47074				38.8	0.443	20,136	0.622	0.622	0.143	0.143	ND
USSCL-PT10-B-20230117	B28173				38.8	0.443	20,141	0.622	0.622	0.143	0.143	ND
USSCL-PT11-S-20230117	B31697				38.8	0.443	20,137	0.622	0.622	0.143	0.143	ND
USSCL-PT12-S-20230117	B27784				38.8	0.443	20,136	0.622	0.622	0.143	0.143	ND

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE103-1 EPA Method 325B Analysis

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

### 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-20230117	B37551	1.56	0.414	15.7	38.8	0.501	20,155	0.247	0.549	0.0657	0.146	
USSCL-PT02-S-20230117	B28066	1.65	0.439	16.7	38.8	0.501	20,155	0.247	0.549	0.0657	0.146	
USSCL-PT03-S-20230117	B46909	3.59	0.954	36.3	38.8	0.501	20,156	0.247	0.549	0.0657	0.146	
USSCL-PT04-S-20230117	C20516	3.14	0.833	31.7	38.8	0.501	20,156	0.247	0.549	0.0657	0.146	
USSCL-PT05-S-20230117	B17448	5.28	1.40	53.3	38.8	0.501	20,156	0.247	0.549	0.0657	0.146	
USSCL-PT06-S-20230117	B18397	3.61	0.958	36.5	38.8	0.501	20,155	0.247	0.549	0.0657	0.146	
USSCL-PT07-S-20230117	B43665	3.41	0.907	34.5	38.8	0.501	20,155	0.247	0.549	0.0657	0.146	
USSCL-PT08-S-20230117	B20888	3.22	0.854	32.5	38.8	0.501	20,138	0.248	0.549	0.0658	0.146	
USSCL-PT09-S-20230117	B46357	6.51	1.73	65.8	38.8	0.501	20,137	0.248	0.549	0.0658	0.146	
USSCL-PT10-S-20230117	C20585	6.36	1.69	64.2	38.8	0.501	20,136	0.248	0.549	0.0658	0.146	
USSCL-PT10-D-20230117	B47074	6.32	1.68	63.8	38.8	0.501	20,136	0.248	0.549	0.0658	0.146	
USSCL-PT10-B-20230117	B28173				38.8	0.501	20,141	0.248	0.549	0.0658	0.146	ND
USSCL-PT11-S-20230117	B31697	4.14	1.10	41.8	38.8	0.501	20,137	0.248	0.549	0.0658	0.146	
USSCL-PT12-S-20230117	B27784	1.68	0.446	17.0	38.8	0.501	20,136	0.248	0.549	0.0658	0.146	

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

QC

# Enthalpy Analytical

Company: All4, Inc.  
Job No.: 2023EE103-1 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/m³)	USSCL-PT10-B-20230117	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass
Duplicates (difference)	USSCL-PT10-D-20230117		Pass	2.3%	Pass		Pass	5.7%	Pass		Pass	0.66%	Pass

# Narrative Summary

## Enthalpy Analytical Narrative Summary

<b>Company</b>	All4, Inc.
<b>Site</b>	US Steel Corp - Clairton Works ICR
<b>Project</b>	00701-0002.00
<b>Report #</b>	2023EE103

<b>Custody</b>	<p>Wilson Matthews of Enthalpy Analytical, LLC received the thermal desorption sample tubes on 02/1/2023. The tubes were received in good condition at a temperature of 14.6 °C.</p> <p>Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, LLC.</p>
<b>Analysis</b>	<p>The thermal desorption tube samples were analyzed for benzene, 1,3-butadiene, toluene, ethylbenzene, m/p-xylene, and o-xylene using EPA Method 325B, Volatile Organic Compounds from Fugitive and Area Sources by Thermal Desorption and GC/MS.</p> <p>The Agilent Technologies Model 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>
<b>Chromatographic Conditions</b>	<p>A copy of the acquisition method (M325B-TD-CRYO9.M) is not included in this report but may be available upon request.</p>
<b>Calibration</b>	<p>The BFB tune associated with the initial calibration failed to meet method criteria for ion 174. However, because the 174 ion is not near the tuning region of the quant ion for the analytes in this report and the continuing calibration checks met the 30% difference criteria, the lab believes that the analyses were unaffected by the deviation. All other BFB criteria have been met for this analysis.</p> <p>The initial calibration (V010423A) met 30% RSD criteria. The initial calibration verification 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>
<b>QC Notes</b>	<p>All internal standard response and retention time criteria were met for these analyses.</p> <p>The field blank and the lab (method) blank met the requirements of the method.</p>



## 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) 1 of 2

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

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

Location	Sample ID (Tube ID)	Sample, Blank, or Duplicate	Start Date	Start Time	Stop Date	Stop Time	Sampler Initials	Avg. Ambient Temp. (°F)
PT01-230117.S	B37551	S	23/01/17	9:14 AM	23/01/31	9:09 AM	SRA	
PT02-230117.S	B28066	S	23/01/17	9:19 AM	23/01/31	9:14 AM	SRA	
PT03-230117.S	B46909	S	23/01/17	9:23 AM	23/01/31	9:19 AM	SRA	
PT04-230117.S	C20516	S	23/01/17	9:26 AM	23/01/31	9:22 AM	SRA	
PT05-230117.S	B17448	S	23/01/17	9:31 AM	23/01/31	9:27 AM	SRA	
PT06-230117.S	B18397	S	23/01/17	9:42 AM	23/01/31	9:37 AM	SRA	
PT07-230117.S	B43665	S	23/01/17	9:38 AM	23/01/31	9:33 AM	SRA	
PT08-230117.S	B20888	S	23/01/17	10:05 AM	23/01/31	9:43 AM	SRA	

Collected By: Print Name and Signature

Stacy Arner

*[Signature]*

Relinquished to Shipper: Print Name and Signature

Relinquished Date

Relinquished Time

Stacy Arner

*[Signature]*

23/01/31

10:45 AM

Received by: Print Name and Signature

Receipt Date

Custody Seal Intact (Yes or No)

Wilson Matthews

*[Signature]*

2/1/23 10:00

YES

Sample Condition Upon Receipt:

Good

Custody Seal # →

21V09704

Analysis Required:

Comments:

IP: -1.0

TB: 14.6

FLUKE 3



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

Page (x of y) 2 of 2

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

Site Name: US Steel Corp-Clairton Works	Client Name: ALL4 LLC	Field Sampling Conditions:
Site Address: 400 State Street	Project Number: 00701-0002.00	<input checked="" type="checkbox"/> Rain During Deployment / Retrieval
City: Clairton	Project Manager: Dustin Share	<input type="checkbox"/> Sample Period w/ Continuous Rain
State: PA	Email Address: dshare@all4inc.com	<input type="checkbox"/> Sample Period w/ Snow or Melt
Zip: 15075	Telephone #: (412) 422-1126	<input type="checkbox"/> Other (Please explain in Notes)

Location	Sample ID (Tube ID)	Sample, Blank, or Duplicate	Start Date	Start Time	Stop Date	Stop Time	Sampler Initials	Avg. Ambient Temp. (°F)
PT09-230117-S	B46357	S	23/01/17	10:16 AM	23/01/31	9:47 AM	SRQ	
PT10-230117-S	C20585	S	23/01/17	10:17 AM	23/01/31	9:53 AM	SRQ	
PT10-230117-D	B47074	D	23/01/17	10:19 AM	23/01/31	9:55 AM	SRQ	
PT10-230117-FB	B28173	FB	23/01/17	10:15 AM	23/01/31	9:56 AM	SRQ	
PT11-230117-S	B31697	S	23/01/17	10:22 AM	23/01/31	9:59 AM	SRQ	
PT12-230117-S	B27784	S	23/01/17	10:26 AM	23/01/31	10:02 AM	SRQ	

Collected By: Print Name and Signature

Relinquished to Shipper: Print Name and Signature	Relinquished Date	Relinquished Time
Stacy Arner / Stacy R Arner	23/01/31	10:45 AM

Received by: Print Name and Signature	Receipt Date	Custody Seal Intact (Yes or No)
Wilson Matthews / Wilson Matthews	2/1/23 10:00	YES

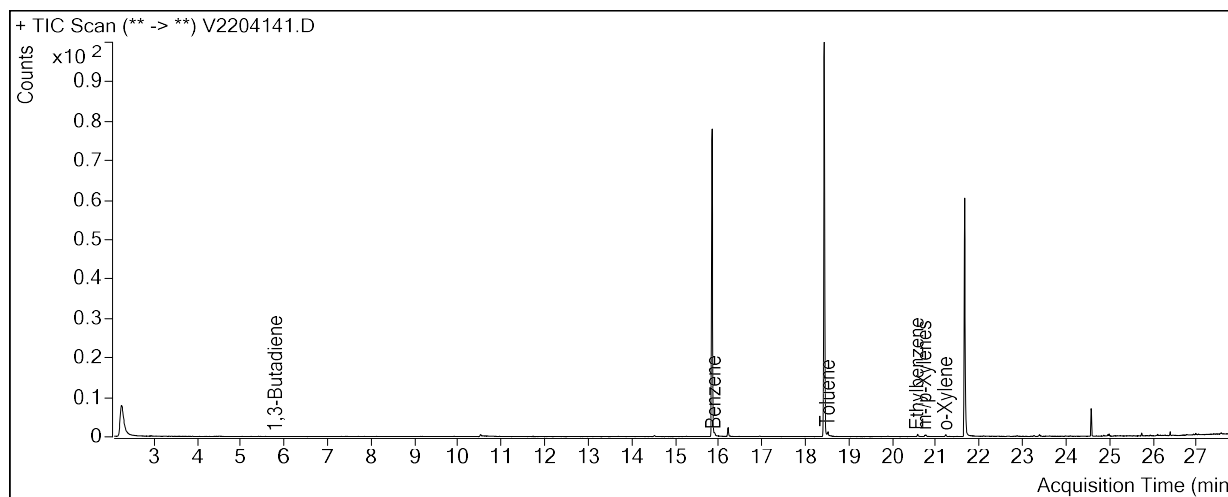
Sample Condition Upon Receipt: Good	Custody Seal # →	21V09704
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Analysis Required:

Comments: IP: -1.0  
TB: 14.6 > FINE3

# Sample Chromatograms

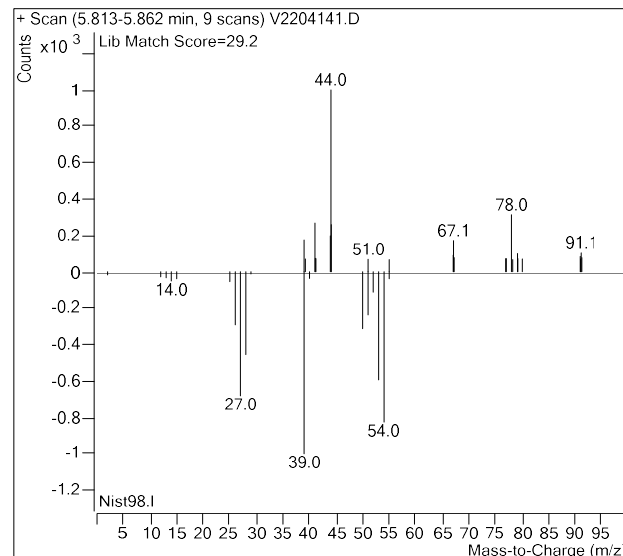
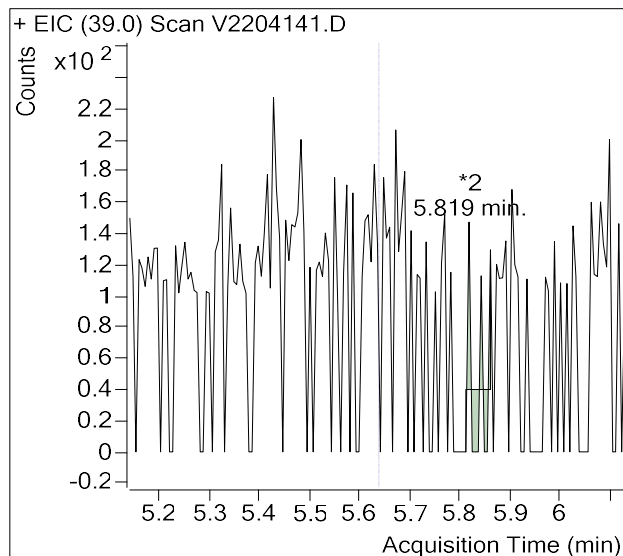
Sample Name : 2023EE103 Method Blank-1  
Sample Info : B43051  
Data File : V2204141.D  
Acquisition Date : 2023-02-02 16:35:41  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	2	m
Benzene-d6 (IS)	15.86	805,717	
Benzene	15.92	10,424	m
Toluene-d8 (IS)	18.45	734,364	
Toluene	18.53	7,667	
Ethylbenzene	20.59	4,947	
m-/p-Xylenes	20.78	5,391	m
o-Xylene	21.24	3,698	

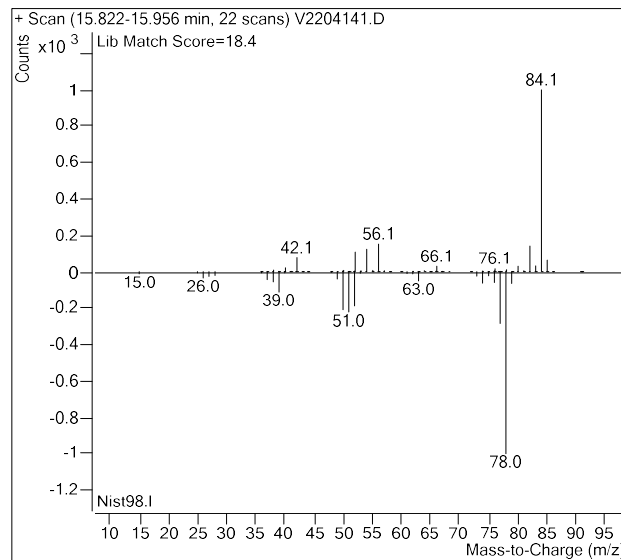
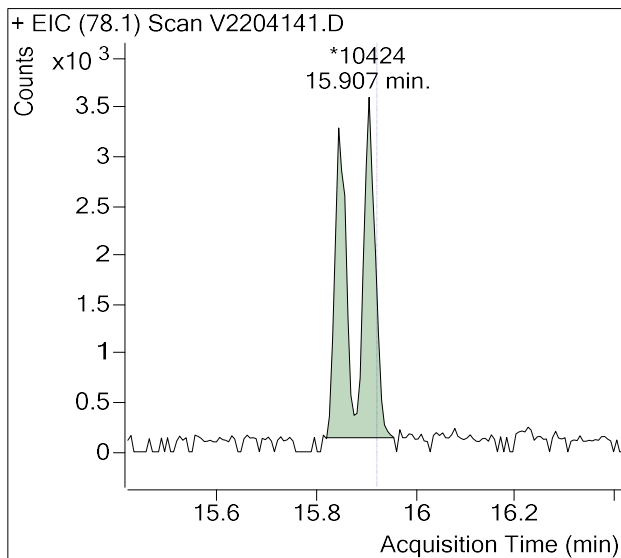
(m)=Manual Integration

1,3-Butadiene

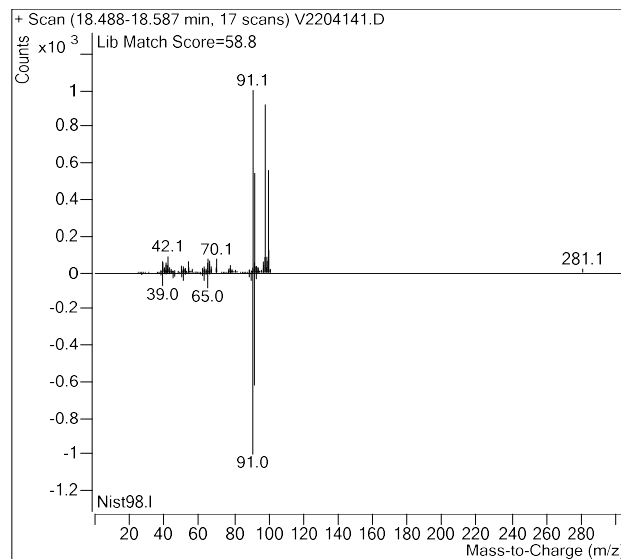
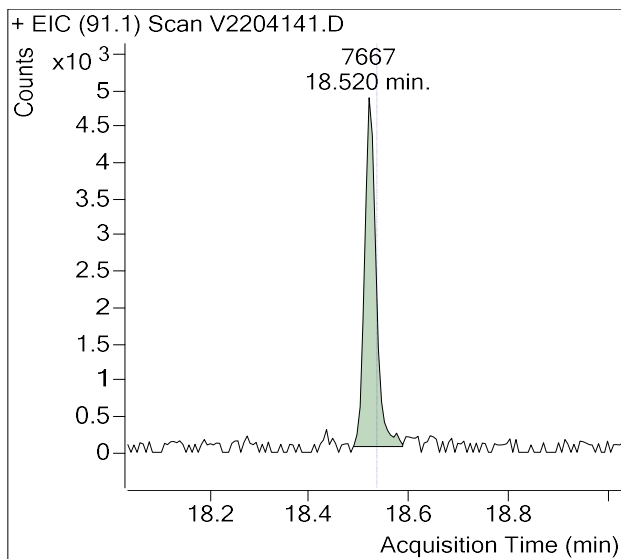


Sample Name : 2023EE103 Method Blank-1  
Sample Info : B43051  
Data File : V2204141.D  
Acquisition Date : 2023-02-02 16:35:41  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene

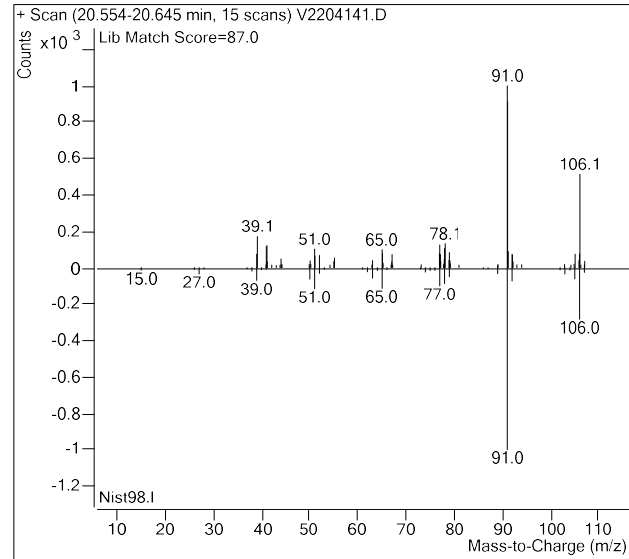
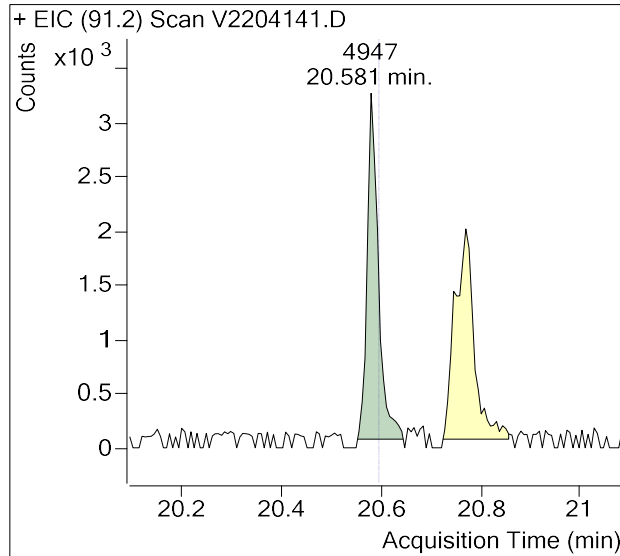


## Toluene

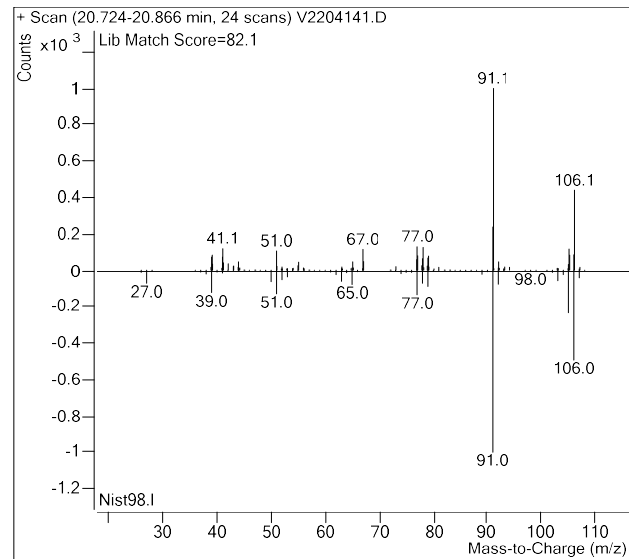
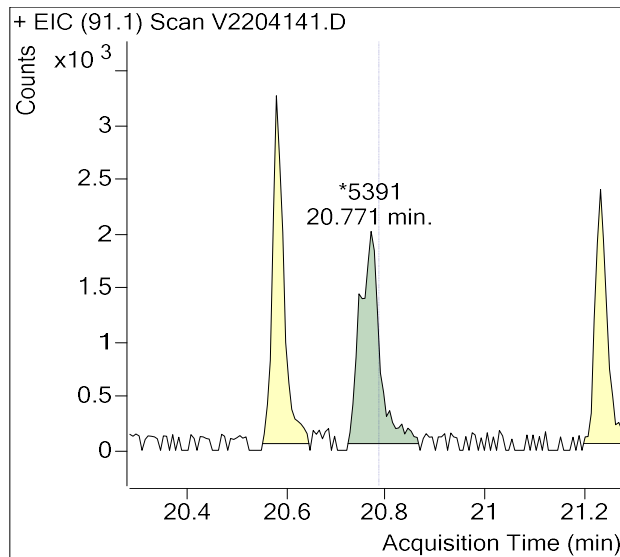


Sample Name : 2023EE103 Method Blank-1  
Sample Info : B43051  
Data File : V2204141.D  
Acquisition Date : 2023-02-02 16:35:41  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

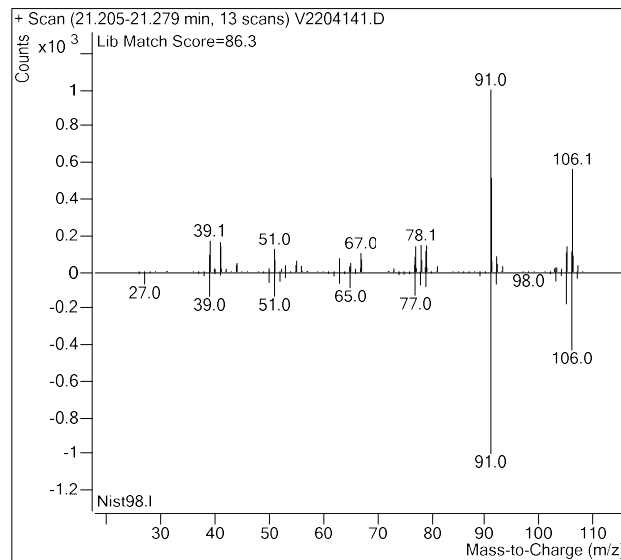
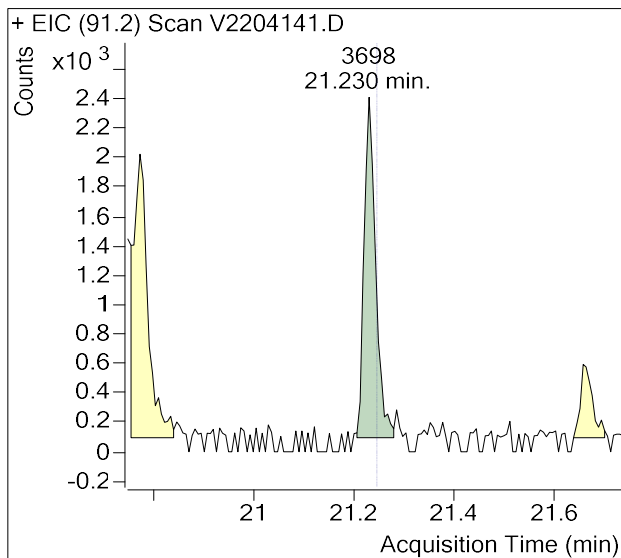


## m-/p-Xylenes



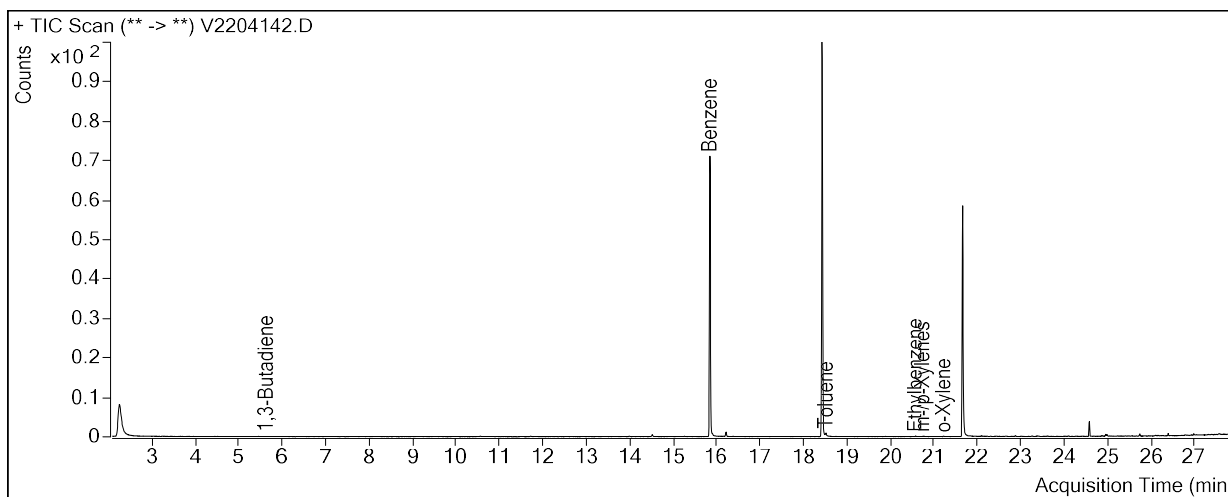
Sample Name : 2023EE103 Method Blank-1  
Sample Info : B43051  
Data File : V2204141.D  
Acquisition Date : 2023-02-02 16:35:41  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene





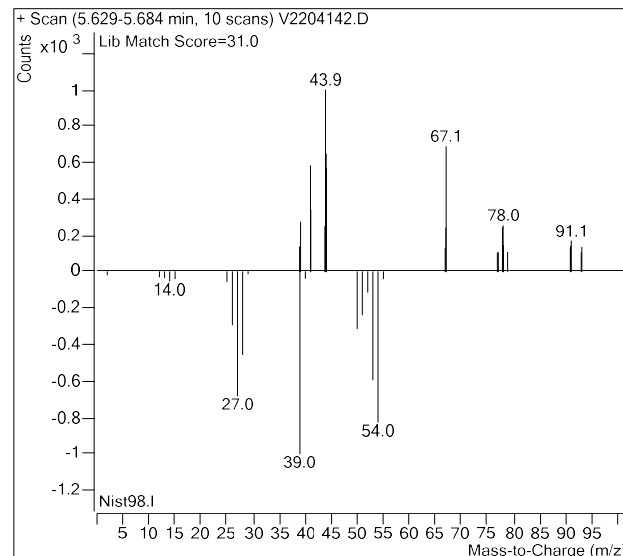
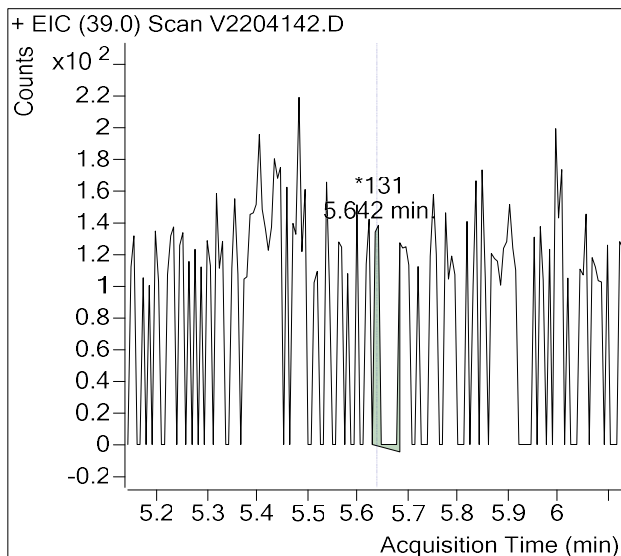
Sample Name : USSCL-PT10-B-20230117  
Sample Info : B28173  
Data File : V2204142.D  
Acquisition Date : 2023-02-02 17:23:15  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	131	m
Benzene-d6 (IS)	15.86	808,138	
Benzene	15.92	8,118	m
Toluene-d8 (IS)	18.45	807,408	
Toluene	18.53	5,513	
Ethylbenzene	20.59	1,593	
m-/p-Xylenes	20.78	1,220	
o-Xylene	21.24	1,205	m

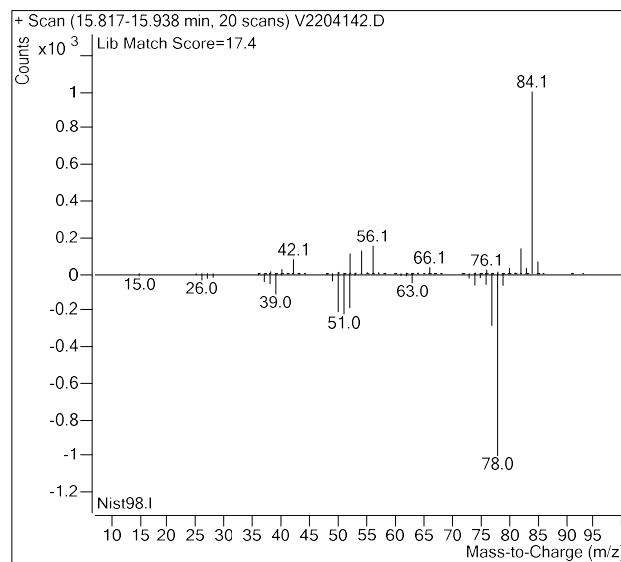
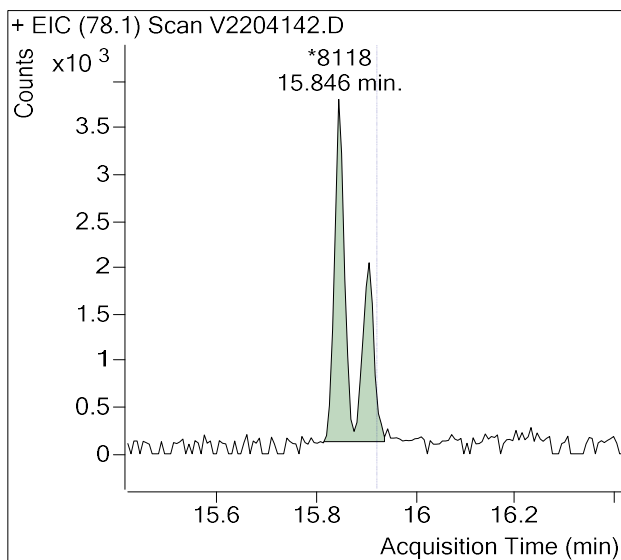
(m)=Manual Integration

1,3-Butadiene

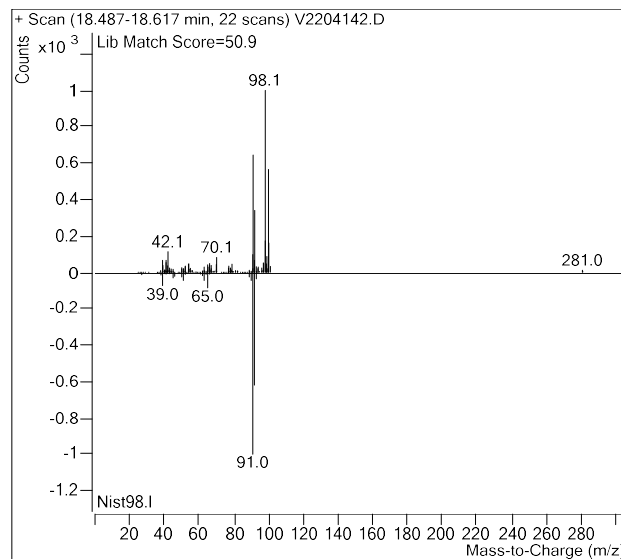
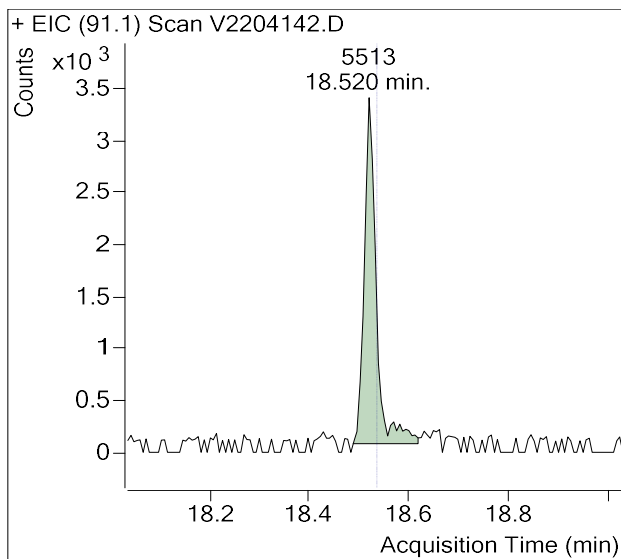


Sample Name : USSCL-PT10-B-20230117  
Sample Info : B28173  
Data File : V2204142.D  
Acquisition Date : 2023-02-02 17:23:15  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene

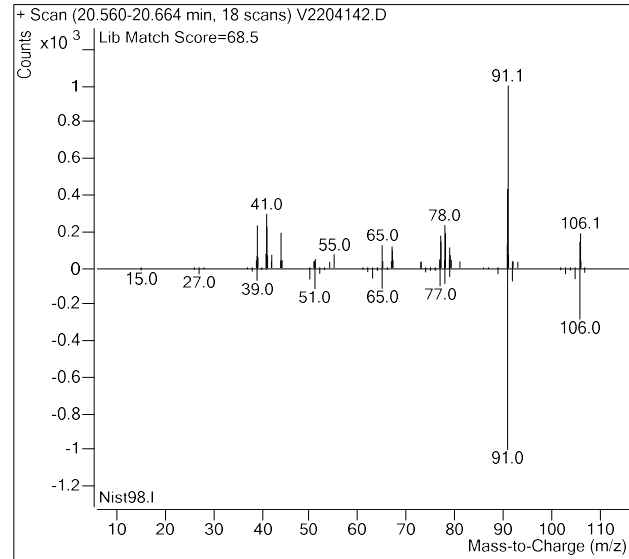
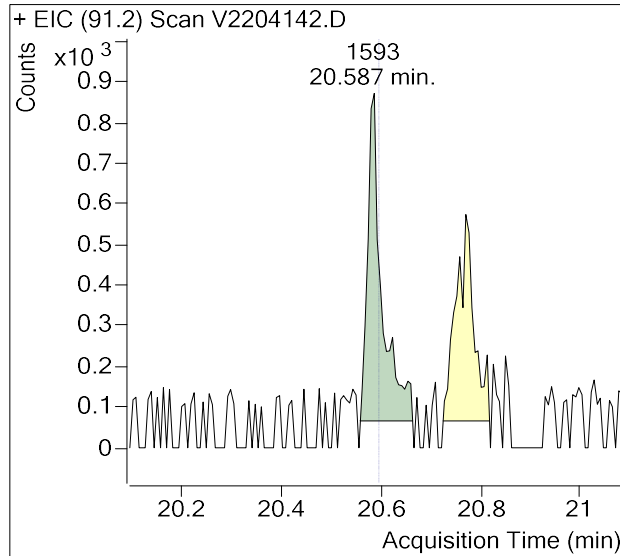


## Toluene

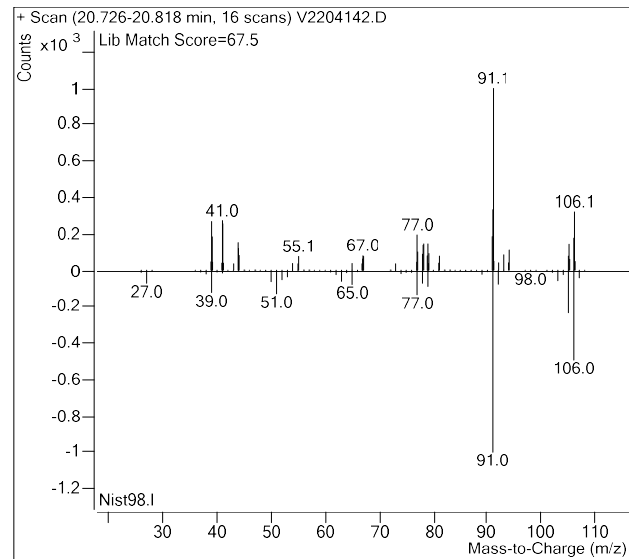
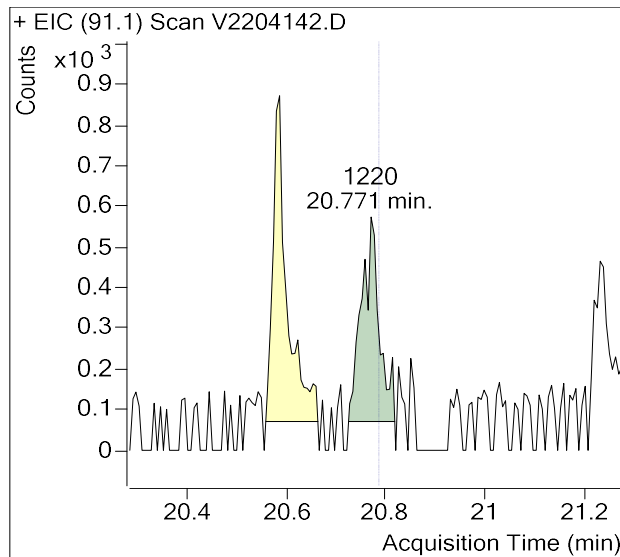


Sample Name : USSCL-PT10-B-20230117  
Sample Info : B28173  
Data File : V2204142.D  
Acquisition Date : 2023-02-02 17:23:15  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

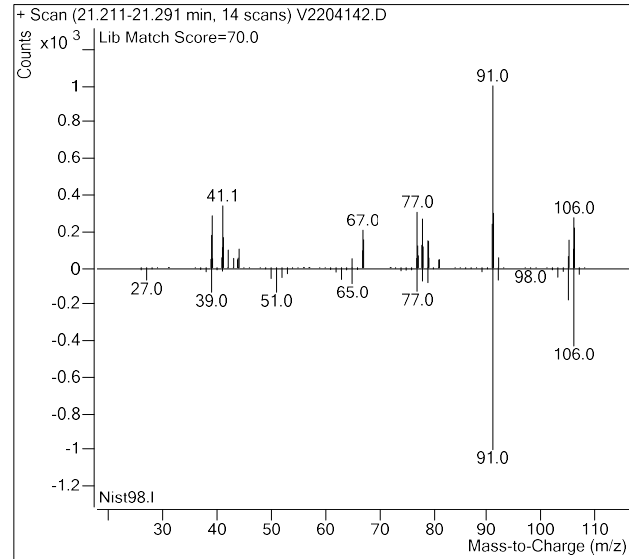
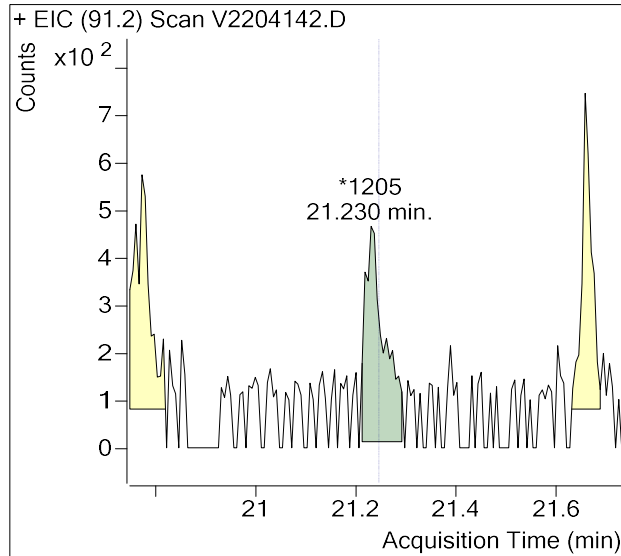


## m-/p-Xylenes

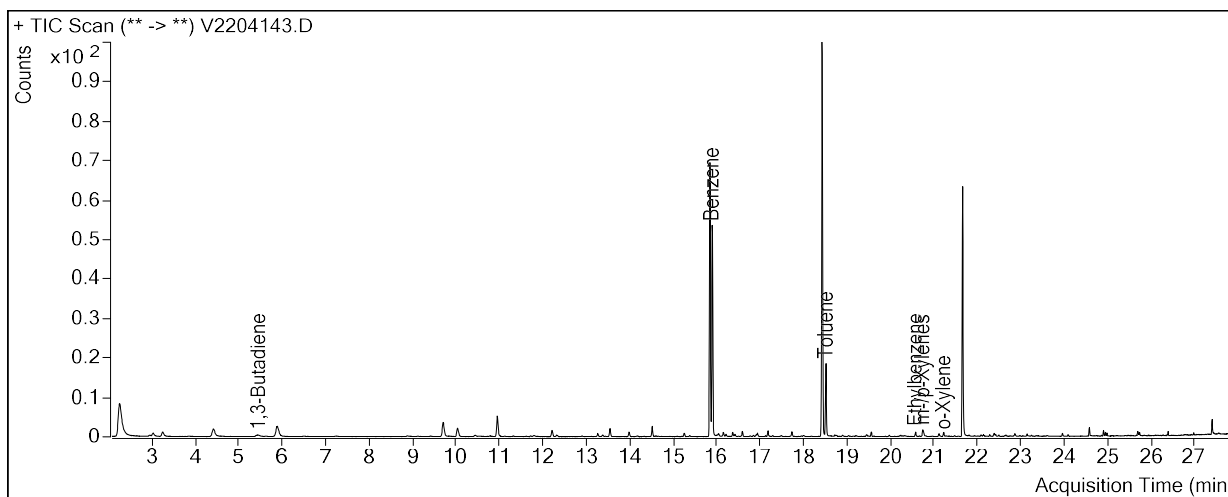


Sample Name : USSCL-PT10-B-20230117  
Sample Info : B28173  
Data File : V2204142.D  
Acquisition Date : 2023-02-02 17:23:15  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene



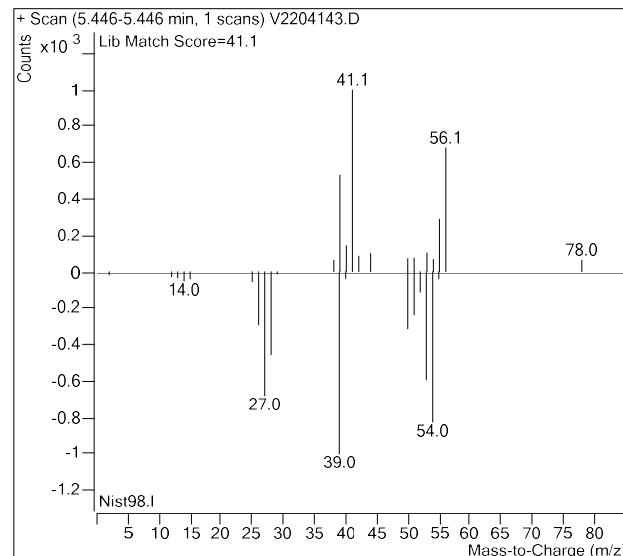
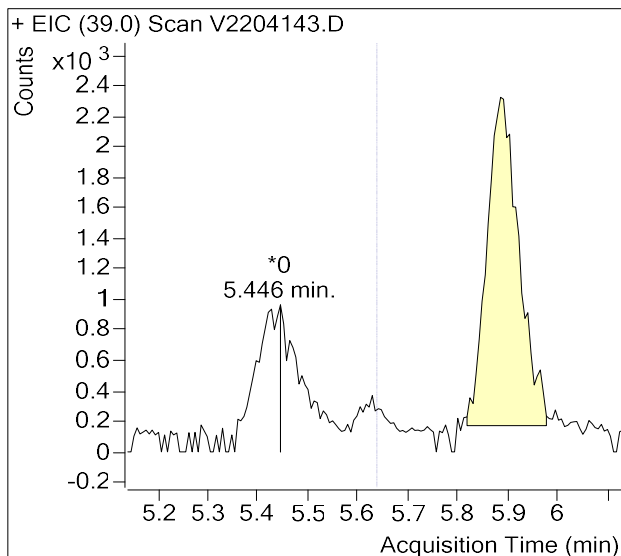
Sample Name : USSCL-PT01-S-20230117  
Sample Info : B37551  
Data File : V2204143.D  
Acquisition Date : 2023-02-02 18:09:03  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	0	m
Benzene-d6 (IS)	15.86	763,604	
Benzene	15.92	571,002	
Toluene-d8 (IS)	18.45	804,438	
Toluene	18.53	153,279	
Ethylbenzene	20.59	9,822	
m-/p-Xylenes	20.78	18,055	
o-Xylene	21.24	7,853	

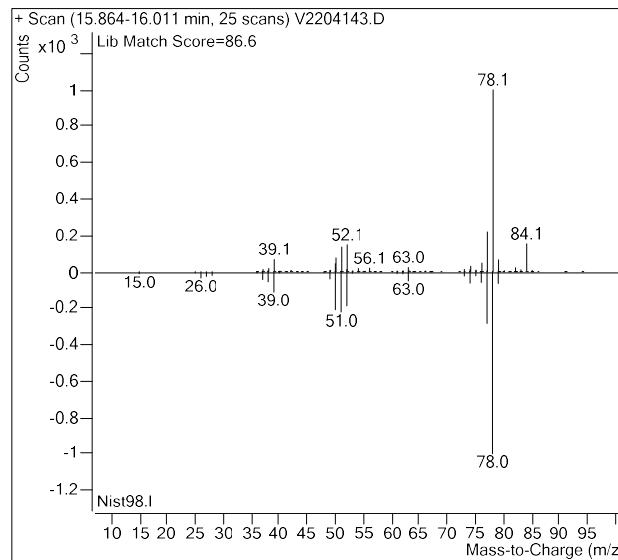
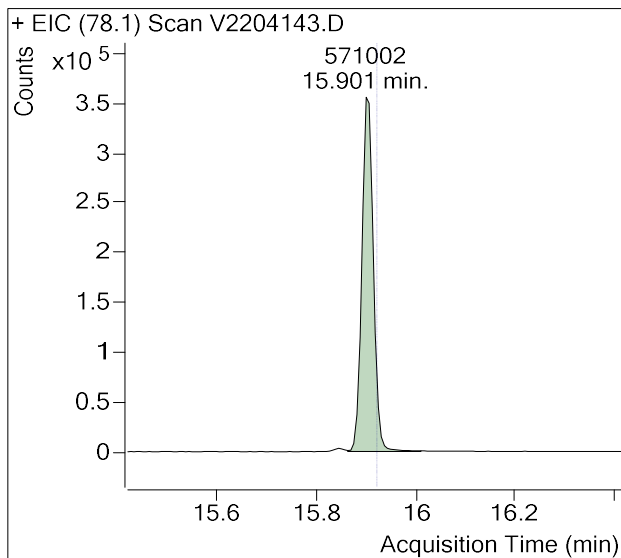
**(m)=Manual Integration**

**1,3-Butadiene**

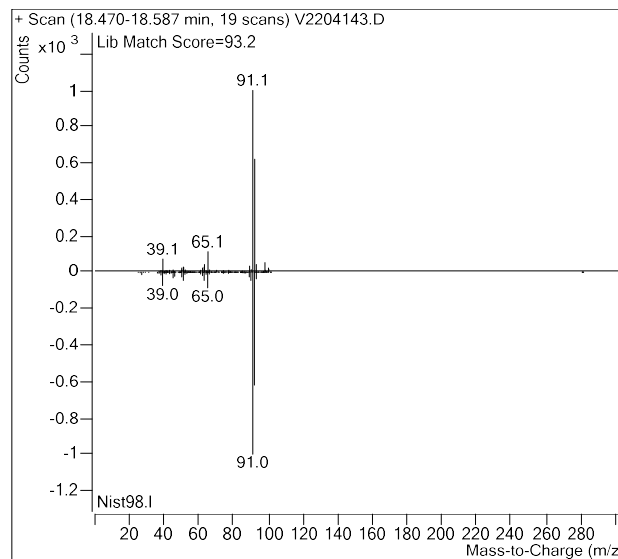
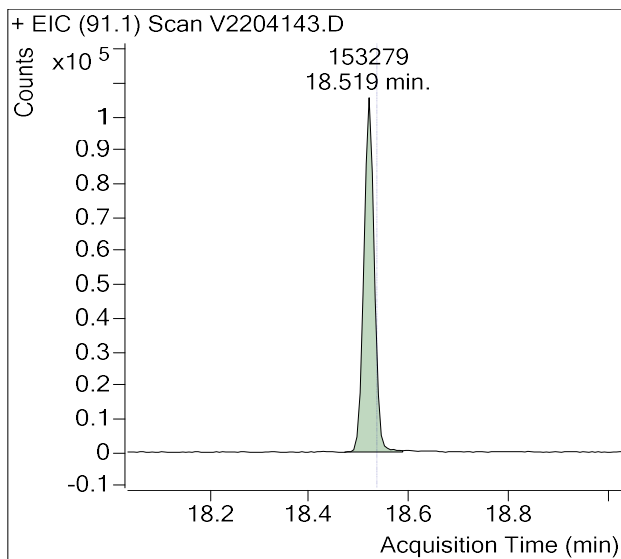


Sample Name : USSCL-PT01-S-20230117  
Sample Info : B37551  
Data File : V2204143.D  
Acquisition Date : 2023-02-02 18:09:03  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene

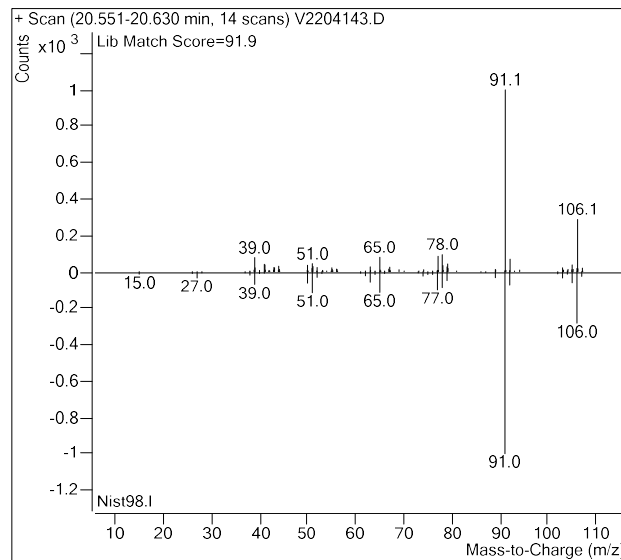
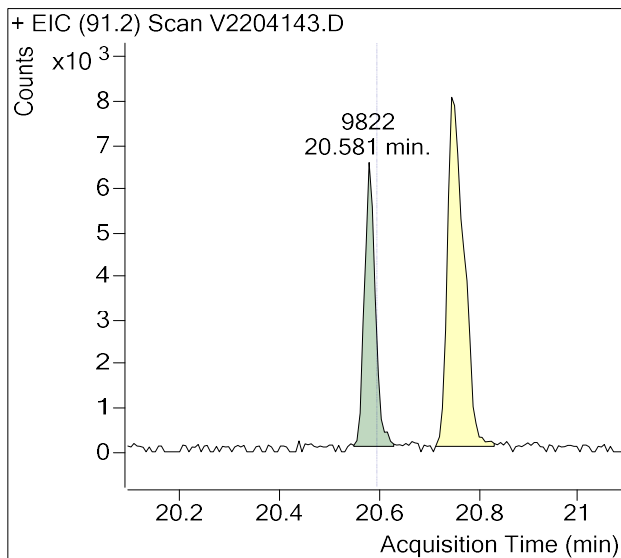


## Toluene

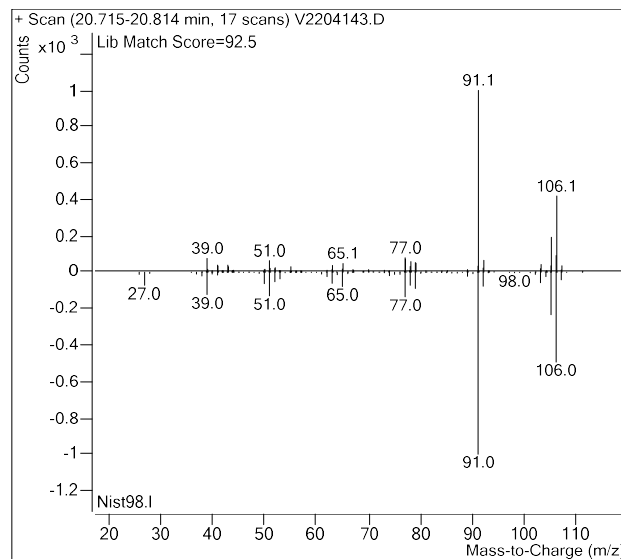
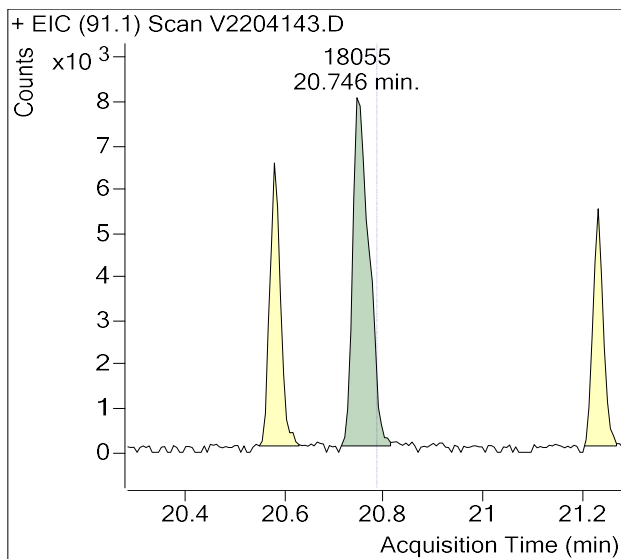


Sample Name : USSCL-PT01-S-20230117  
Sample Info : B37551  
Data File : V2204143.D  
Acquisition Date : 2023-02-02 18:09:03  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

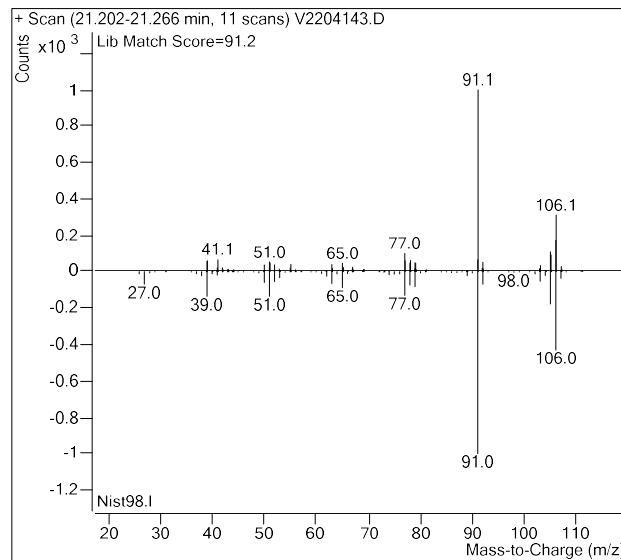
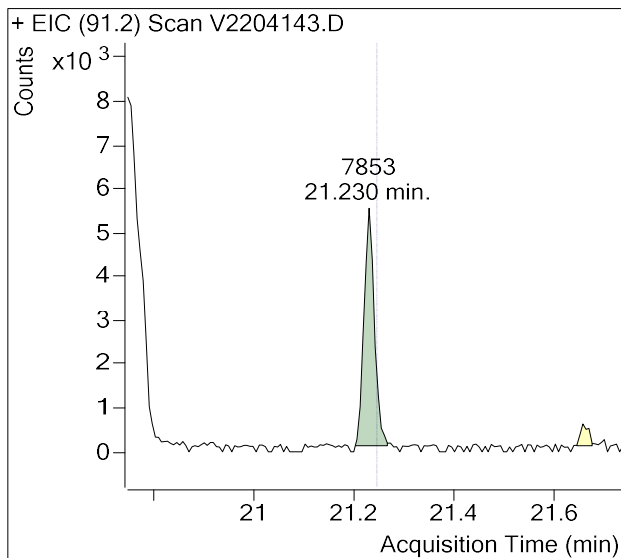


## m-/p-Xylenes



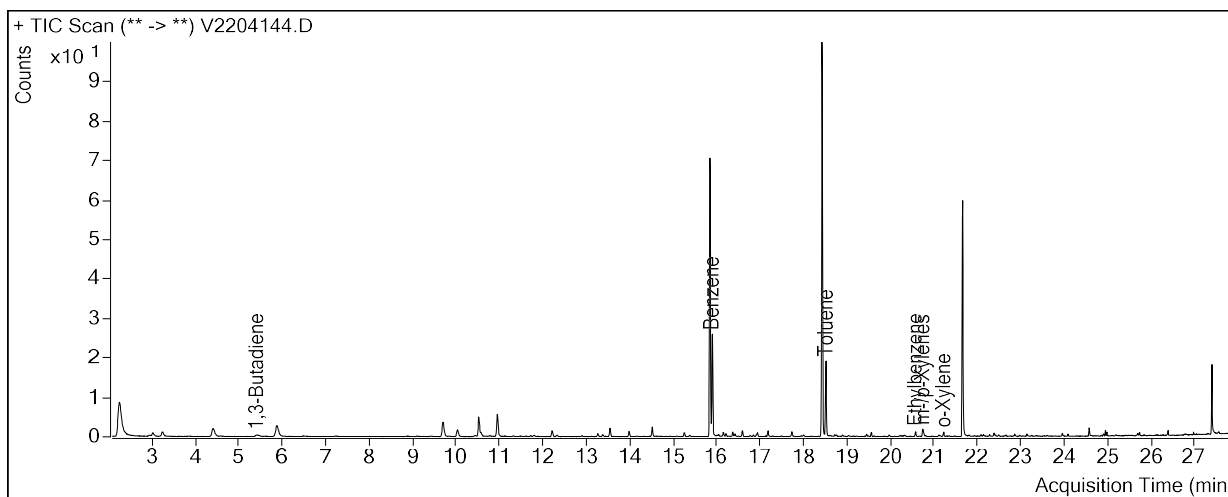
Sample Name : USSCL-PT01-S-20230117  
Sample Info : B37551  
Data File : V2204143.D  
Acquisition Date : 2023-02-02 18:09:03  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene





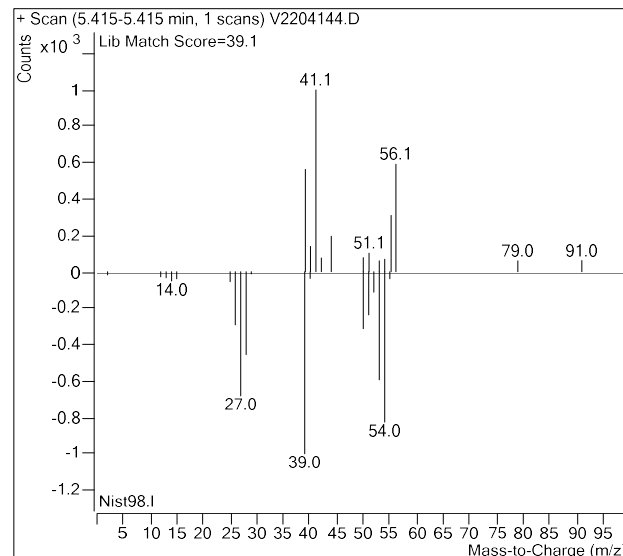
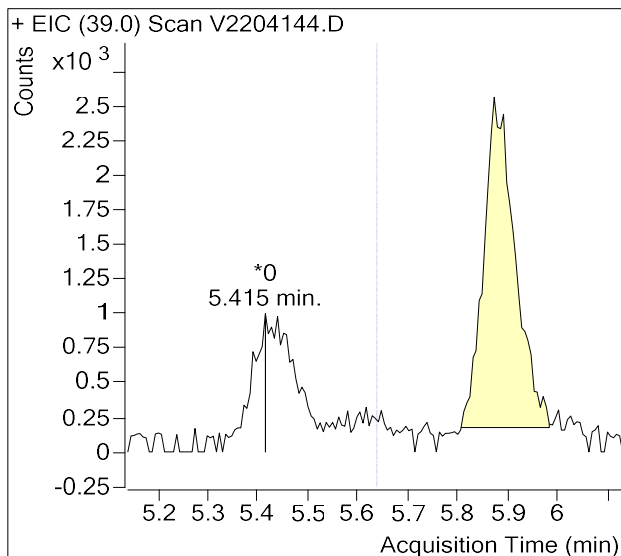
Sample Name : USSCL-PT02-S-20230117  
Sample Info : B28066  
Data File : V2204144.D  
Acquisition Date : 2023-02-02 18:54:35  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	0	m
Benzene-d6 (IS)	15.86	816,215	
Benzene	15.92	287,050	
Toluene-d8 (IS)	18.45	821,075	
Toluene	18.53	166,059	
Ethylbenzene	20.59	11,543	
m-/p-Xylenes	20.78	19,787	
o-Xylene	21.24	8,007	

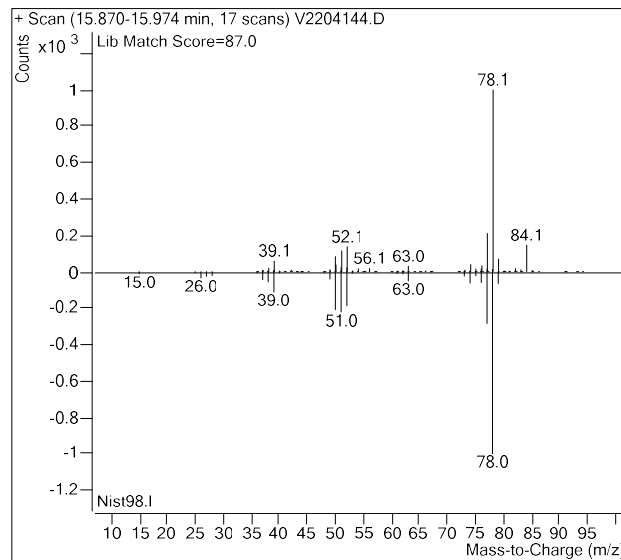
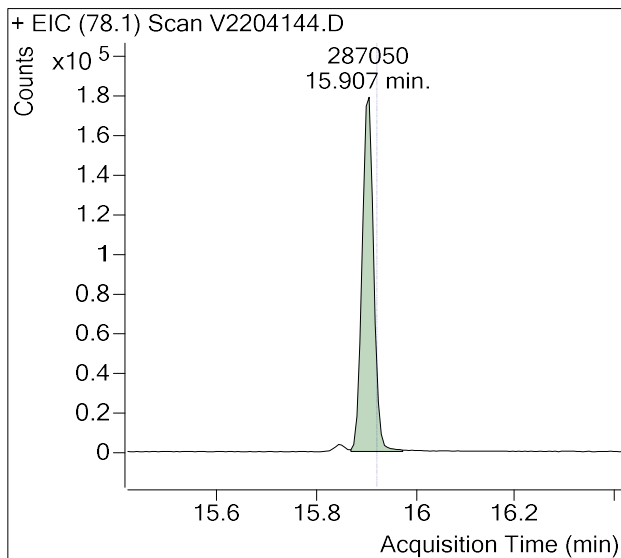
**(m)=Manual Integration**

**1,3-Butadiene**

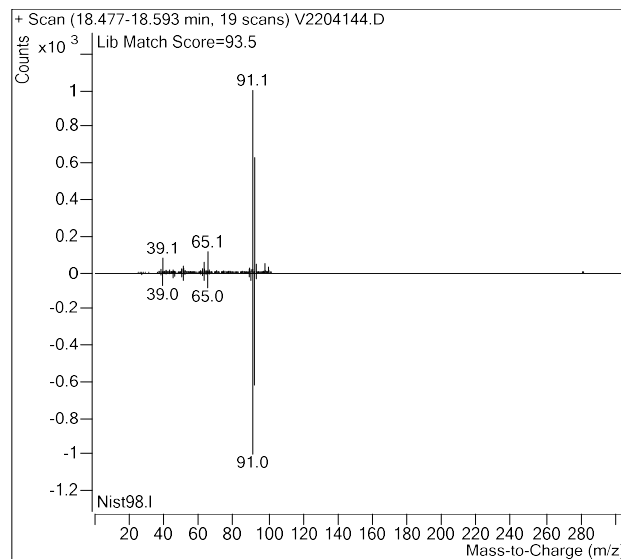
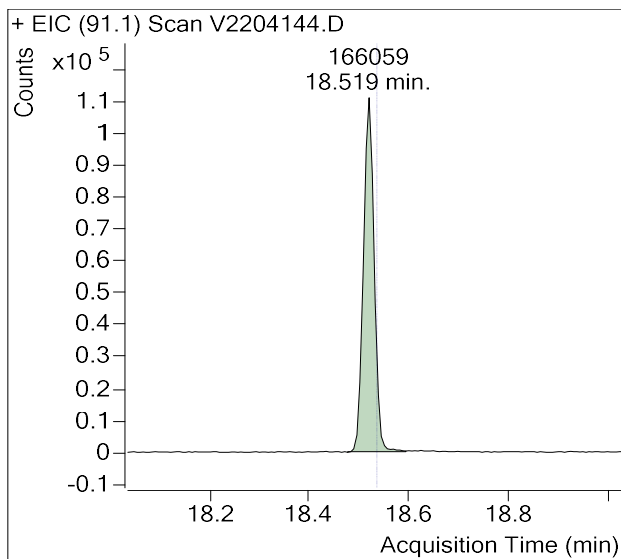


Sample Name : USSCL-PT02-S-20230117  
Sample Info : B28066  
Data File : V2204144.D  
Acquisition Date : 2023-02-02 18:54:35  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene



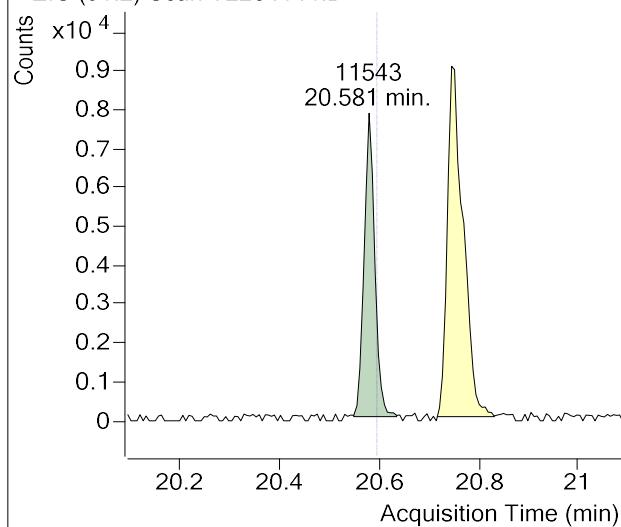
## Toluene



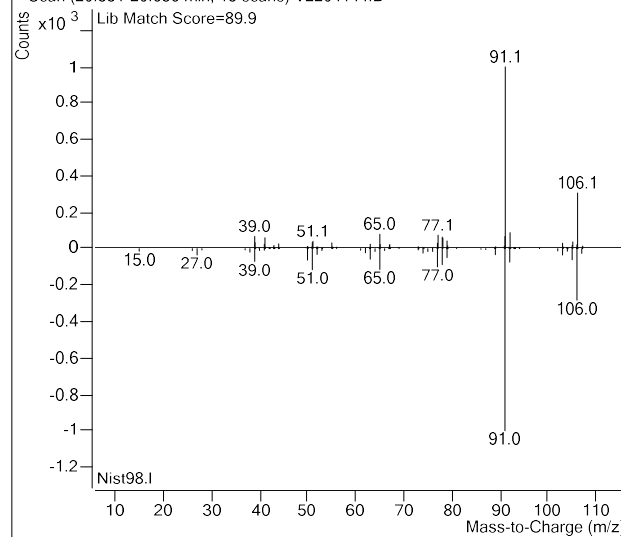
Sample Name : USSCL-PT02-S-20230117  
Sample Info : B28066  
Data File : V2204144.D  
Acquisition Date : 2023-02-02 18:54:35  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

+ EIC (91.2) Scan V2204144.D

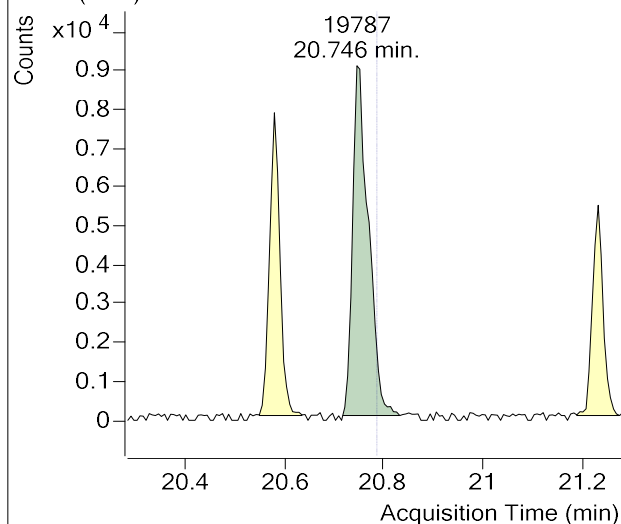


+ Scan (20.551-20.636 min, 15 scans) V2204144.D

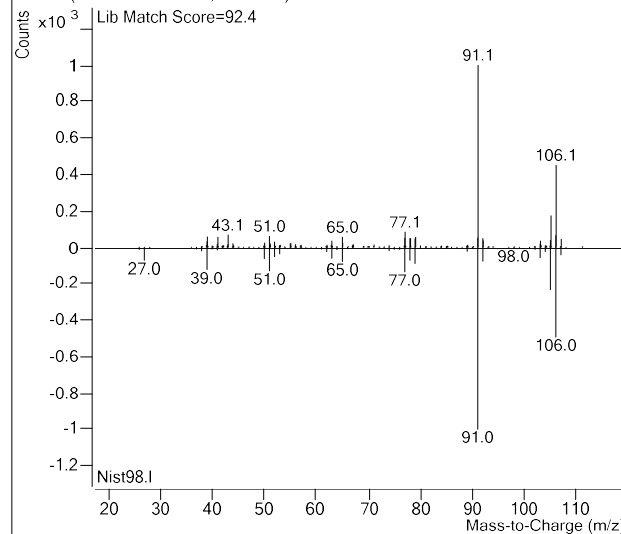


## m-/p-Xylenes

+ EIC (91.1) Scan V2204144.D

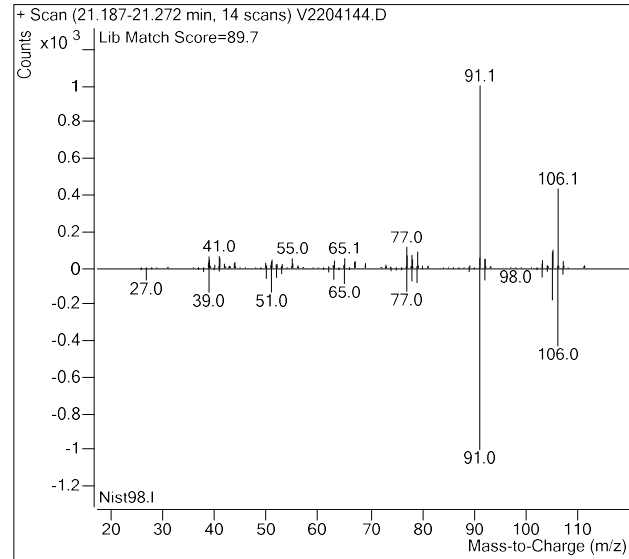
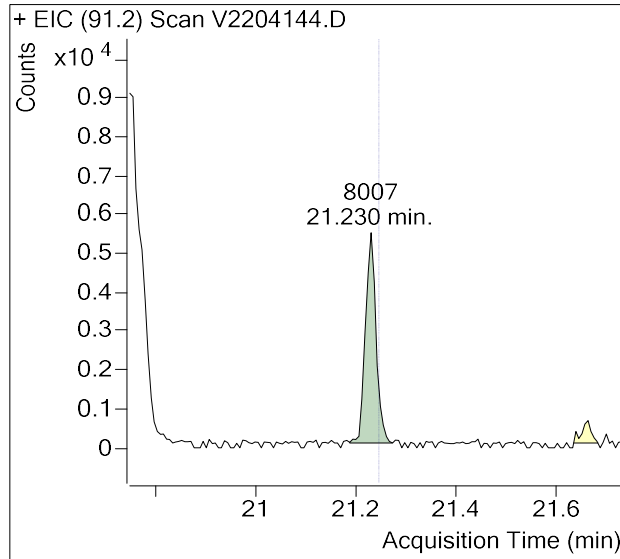


+ Scan (20.718-20.832 min, 19 scans) V2204144.D

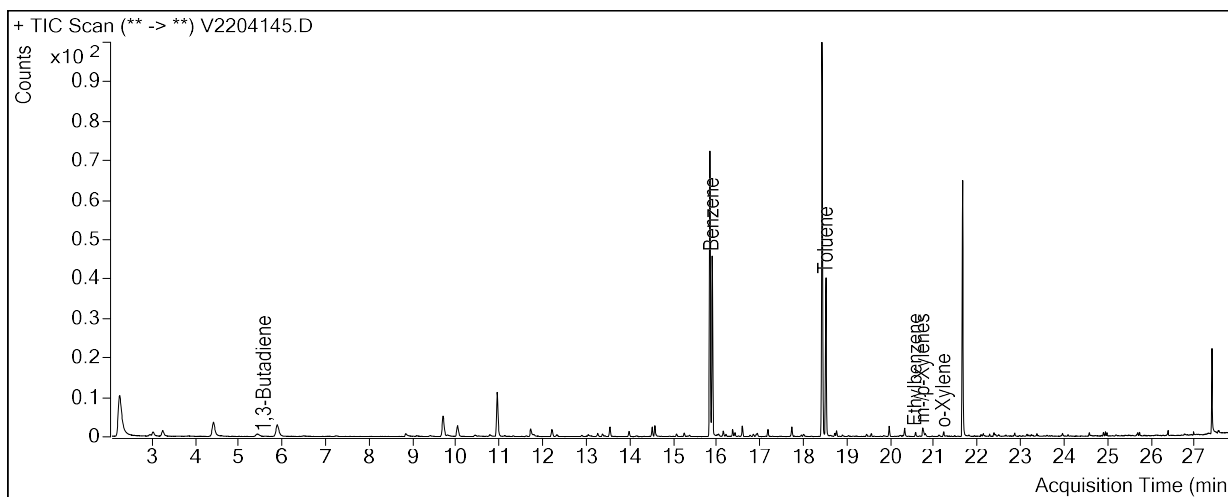


Sample Name : USSCL-PT02-S-20230117  
Sample Info : B28066  
Data File : V2204144.D  
Acquisition Date : 2023-02-02 18:54:35  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene



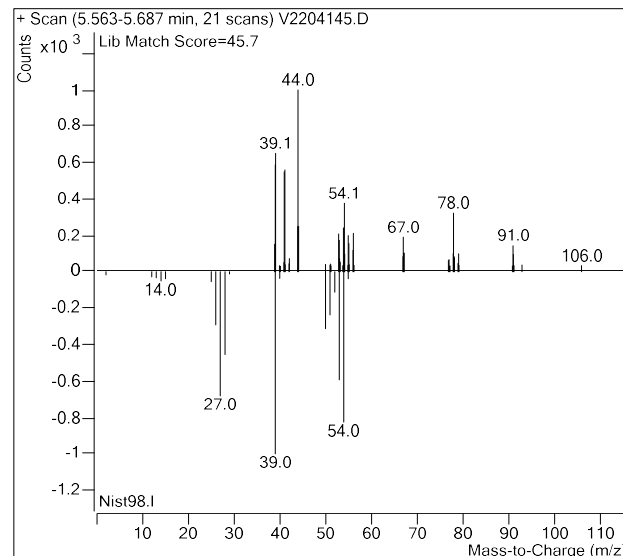
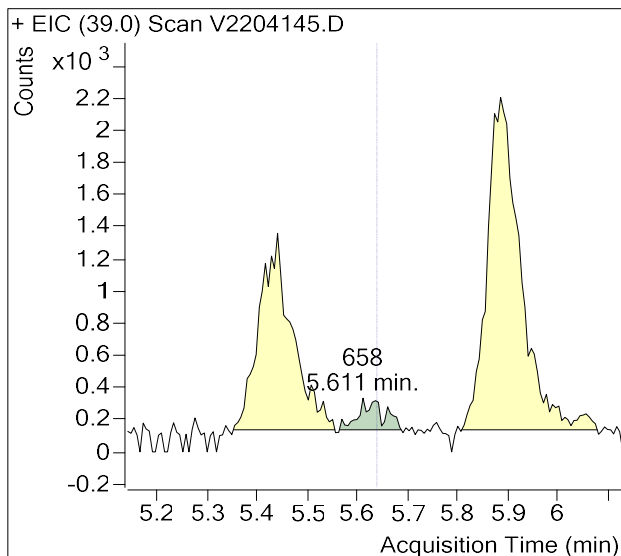
Sample Name : USSCL-PT03-S-20230117  
Sample Info : B46909  
Data File : V2204145.D  
Acquisition Date : 2023-02-02 19:39:52  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	658	
Benzene-d6 (IS)	15.86	639,936	
Benzene	15.92	384,303	
Toluene-d8 (IS)	18.45	640,171	
Toluene	18.53	281,041	
Ethylbenzene	20.59	7,631	
m-/p-Xylenes	20.78	18,339	
o-Xylene	21.24	7,662	m

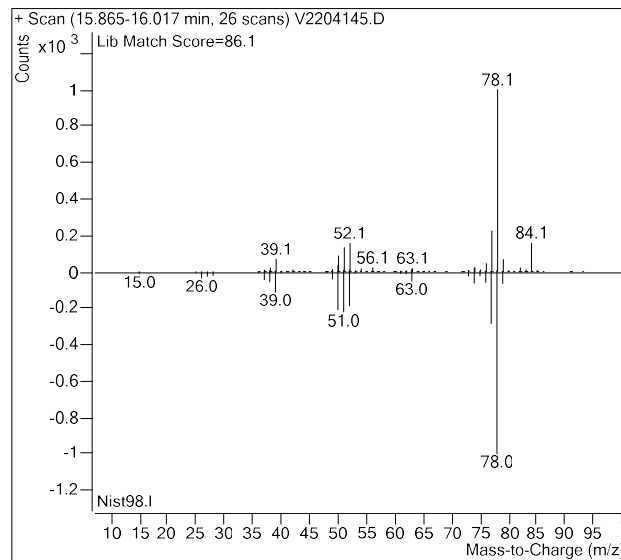
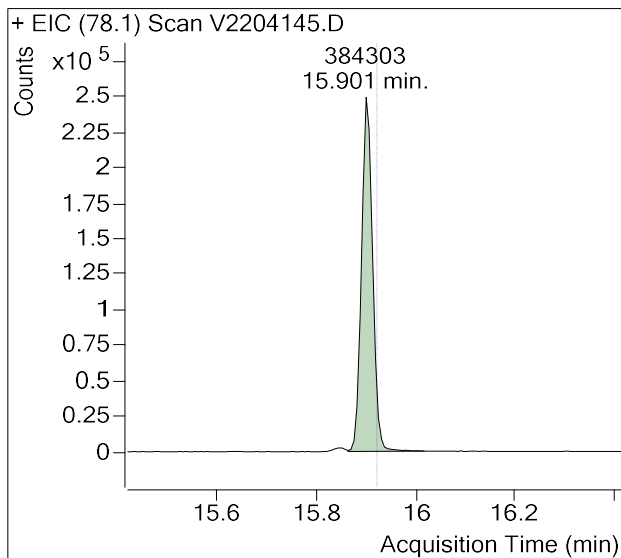
**(m)=Manual Integration**

1,3-Butadiene

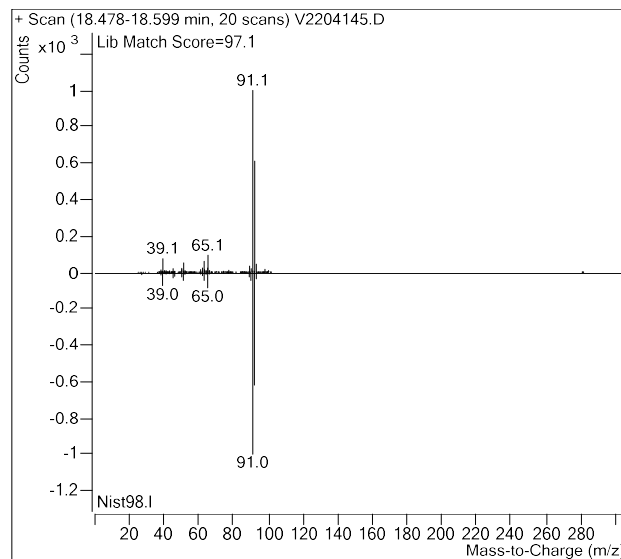
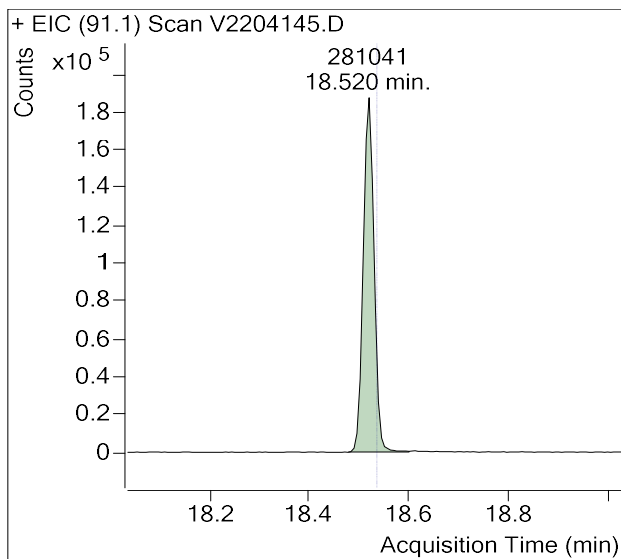


Sample Name : USSCL-PT03-S-20230117  
Sample Info : B46909  
Data File : V2204145.D  
Acquisition Date : 2023-02-02 19:39:52  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene



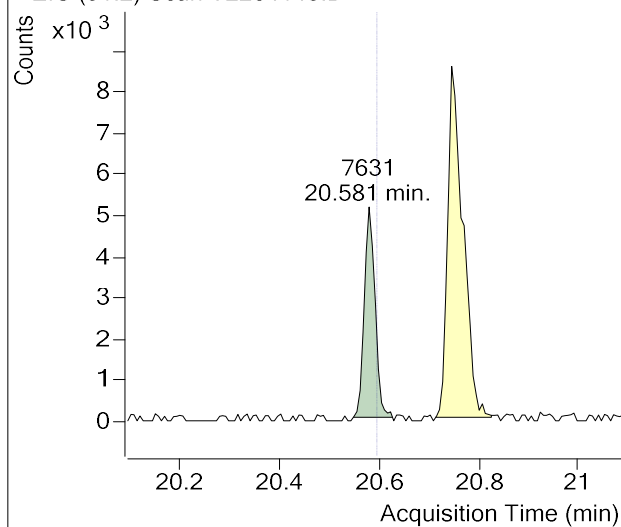
## Toluene



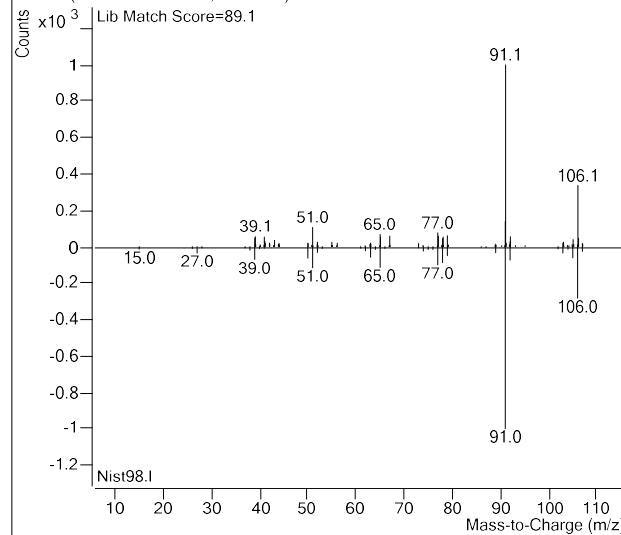
Sample Name : USSCL-PT03-S-20230117  
Sample Info : B46909  
Data File : V2204145.D  
Acquisition Date : 2023-02-02 19:39:52  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

+ EIC (91.2) Scan V2204145.D

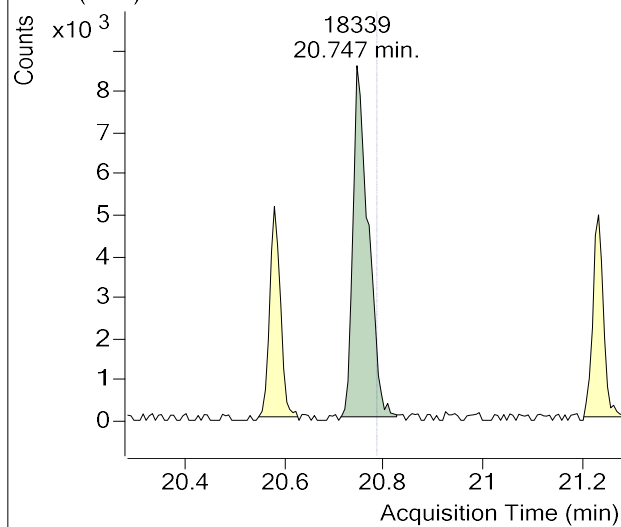


+ Scan (20.549-20.628 min, 13 scans) V2204145.D

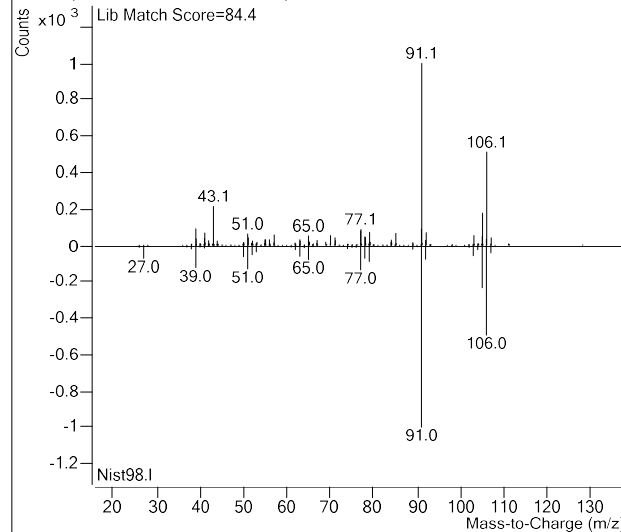


## m-/p-Xylenes

+ EIC (91.1) Scan V2204145.D



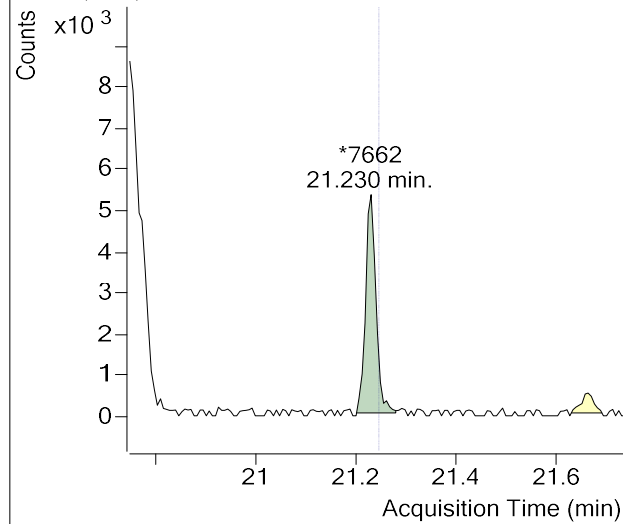
+ Scan (20.714-20.826 min, 19 scans) V2204145.D



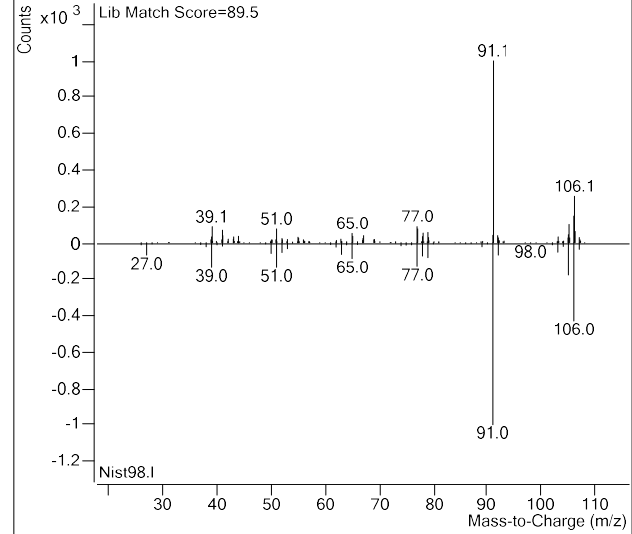
Sample Name : USSCL-PT03-S-20230117  
Sample Info : B46909  
Data File : V2204145.D  
Acquisition Date : 2023-02-02 19:39:52  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene

+ EIC (91.2) Scan V2204145.D

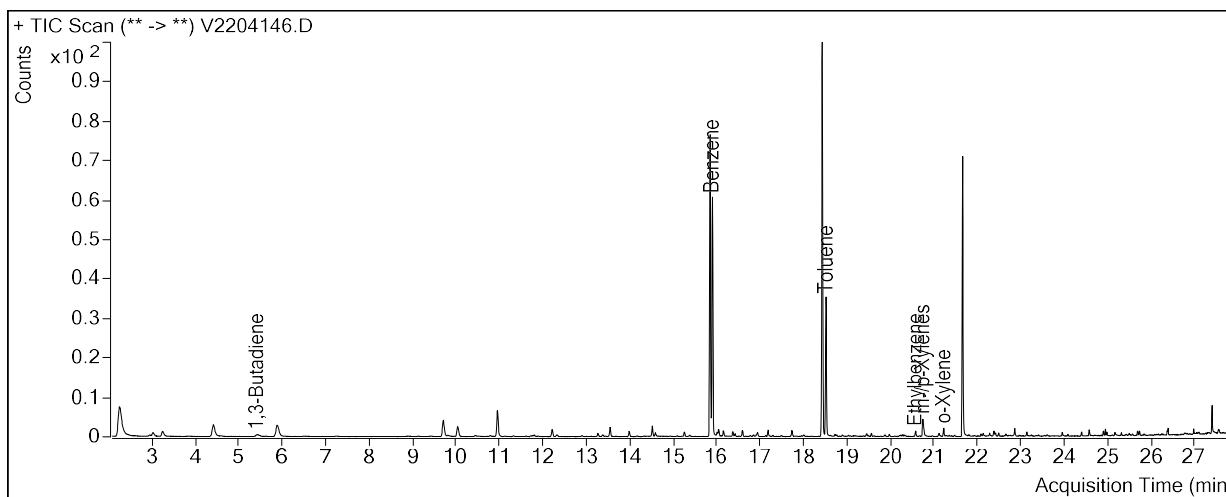


+ Scan (21.200-21.279 min, 13 scans) V2204145.D





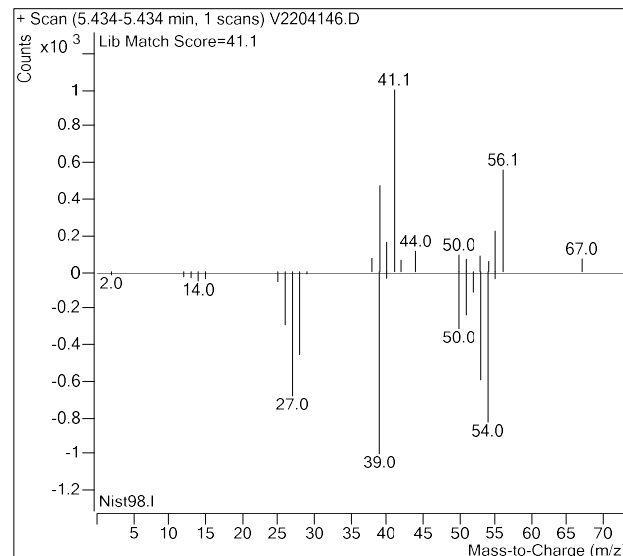
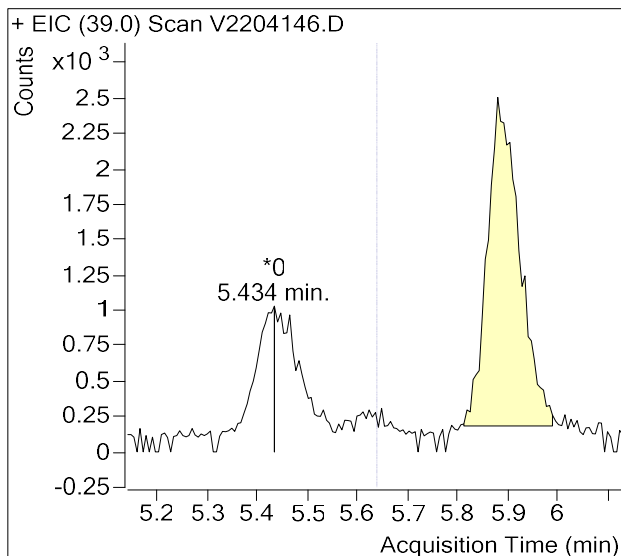
Sample Name : USSCL-PT04-S-20230117  
Sample Info : C20516  
Data File : V2204146.D  
Acquisition Date : 2023-02-02 20:24:35  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	0	m
Benzene-d6 (IS)	15.86	809,035	
Benzene	15.92	603,229	
Toluene-d8 (IS)	18.45	756,880	
Toluene	18.53	290,419	
Ethylbenzene	20.59	11,235	
m-/p-Xylenes	20.78	41,816	
o-Xylene	21.24	14,317	

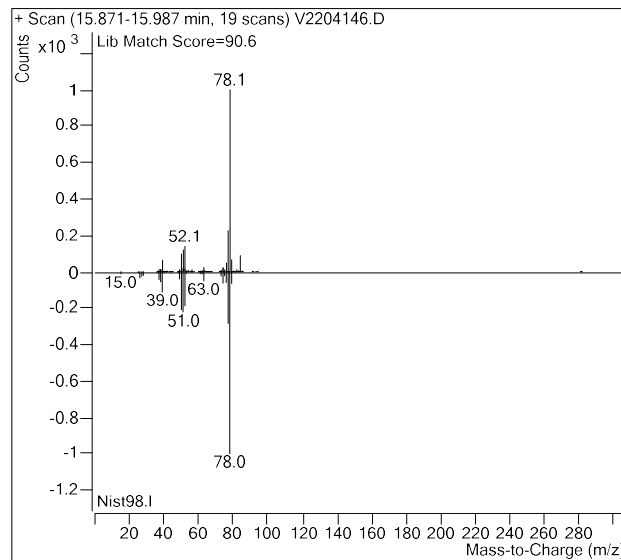
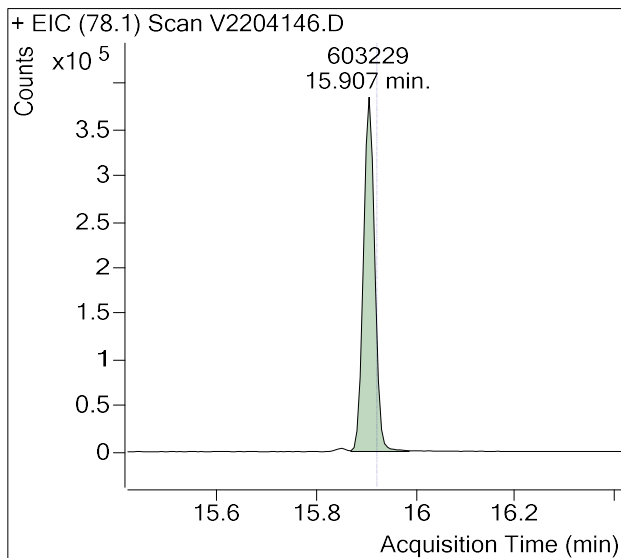
**(m)=Manual Integration**

**1,3-Butadiene**

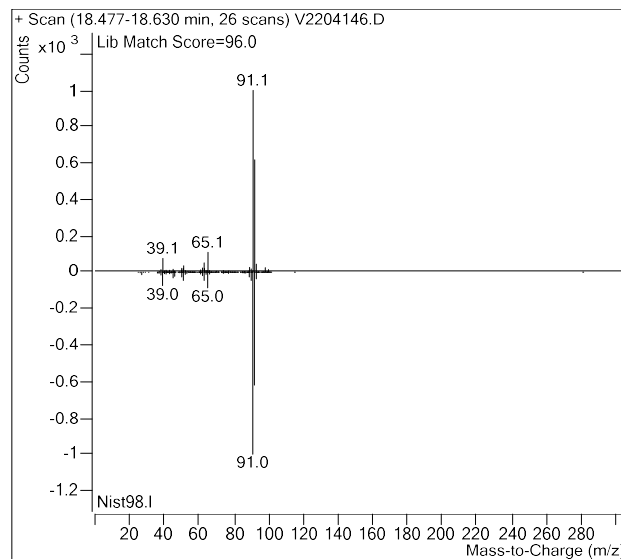
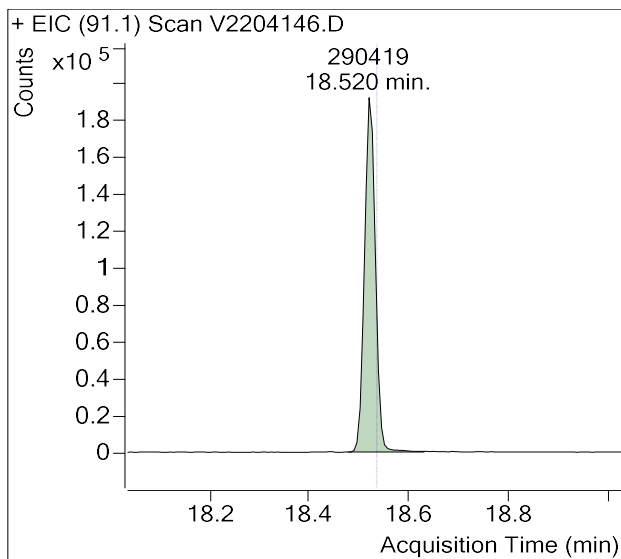


Sample Name : USSCL-PT04-S-20230117  
Sample Info : C20516  
Data File : V2204146.D  
Acquisition Date : 2023-02-02 20:24:35  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene



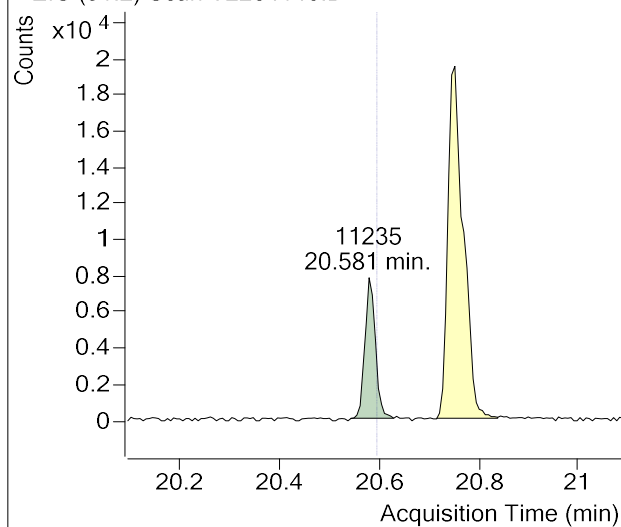
## Toluene



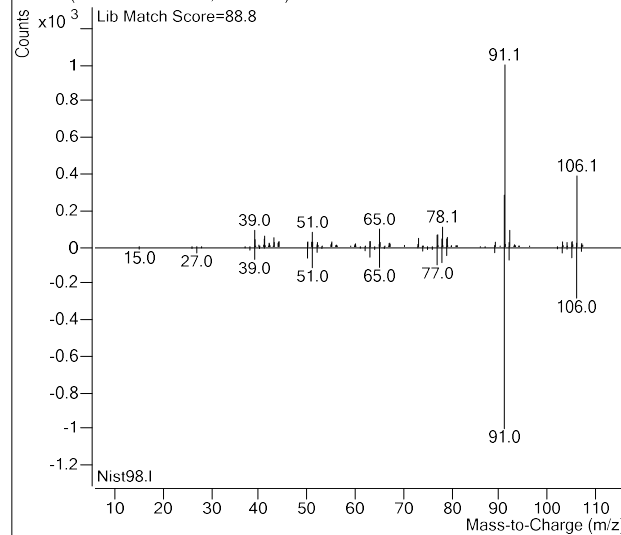
Sample Name : USSCL-PT04-S-20230117  
Sample Info : C20516  
Data File : V2204146.D  
Acquisition Date : 2023-02-02 20:24:35  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

+ EIC (91.2) Scan V2204146.D

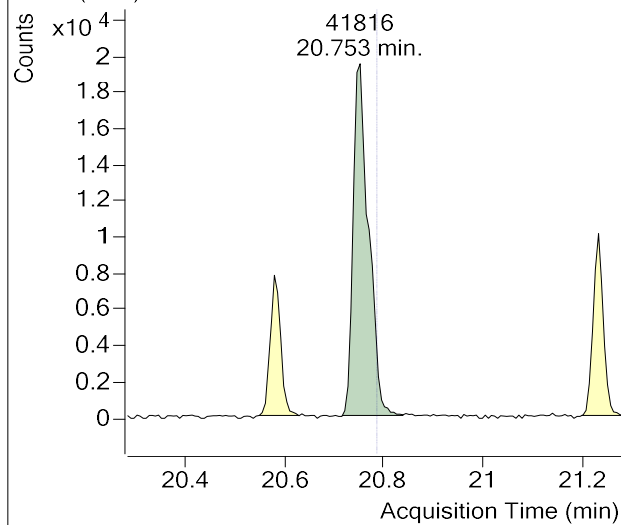


+ Scan (20.545-20.630 min, 14 scans) V2204146.D

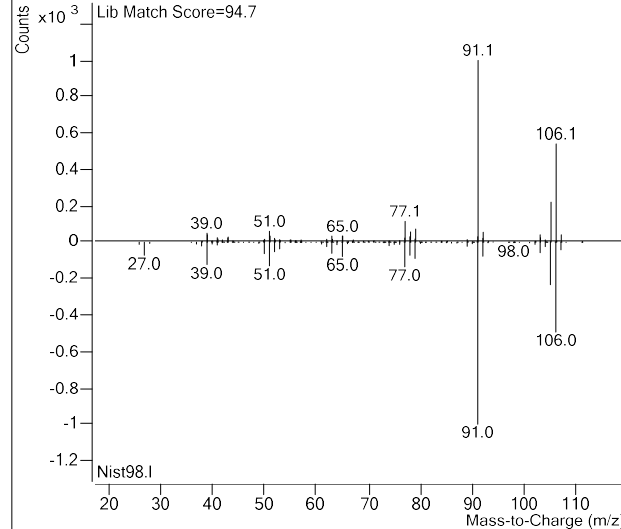


## m-/p-Xylenes

+ EIC (91.1) Scan V2204146.D

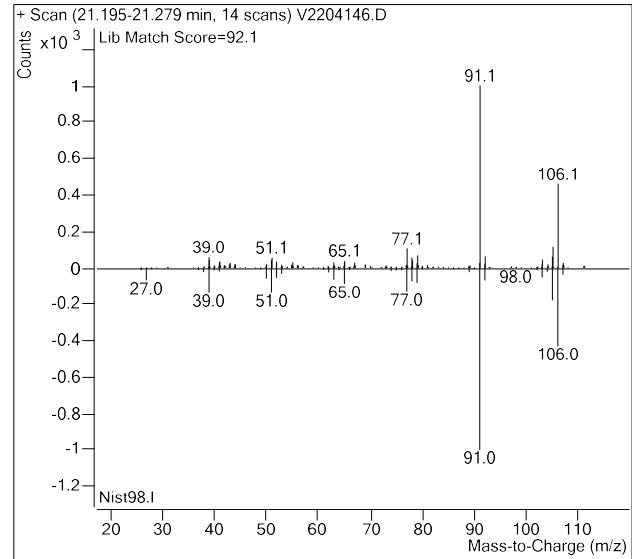
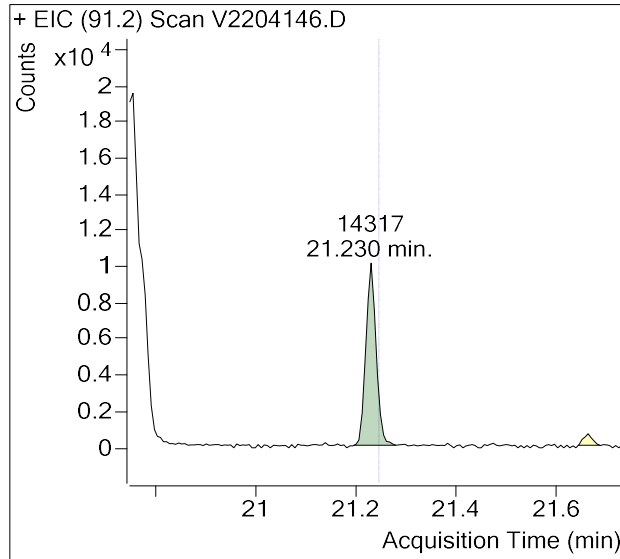


+ Scan (20.717-20.838 min, 20 scans) V2204146.D

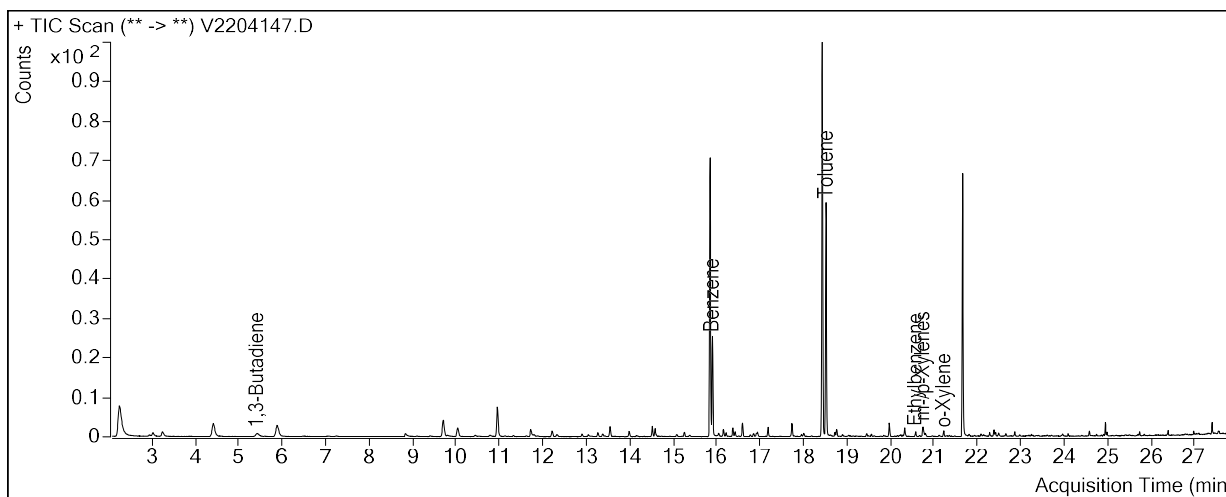


Sample Name : USSCL-PT04-S-20230117  
Sample Info : C20516  
Data File : V2204146.D  
Acquisition Date : 2023-02-02 20:24:35  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene



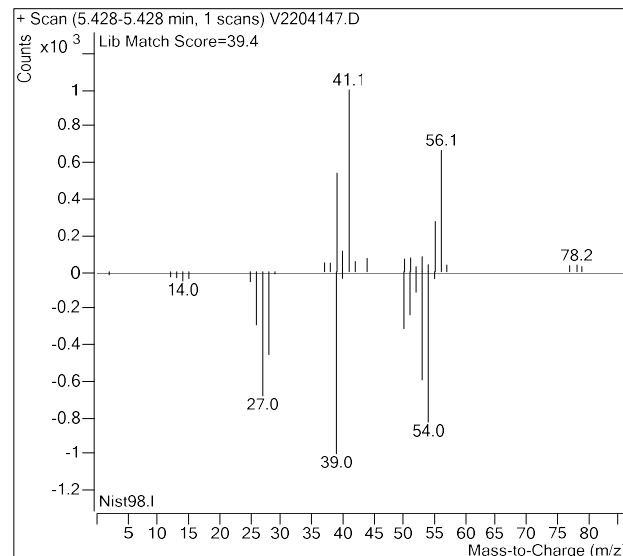
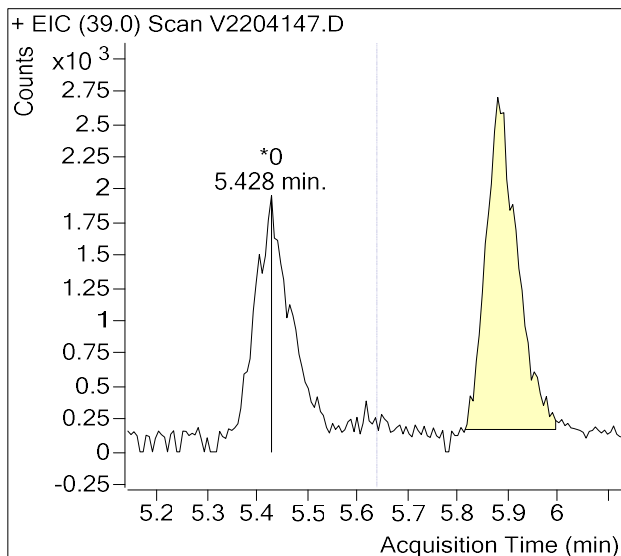
Sample Name : USSCL-PT05-S-20230117  
Sample Info : B17448  
Data File : V2204147.D  
Acquisition Date : 2023-02-02 21:09:03  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	0	m
Benzene-d6 (IS)	15.86	804,877	
Benzene	15.92	273,716	
Toluene-d8 (IS)	18.45	806,666	
Toluene	18.53	520,708	
Ethylbenzene	20.59	11,118	
m-/p-Xylenes	20.78	24,872	
o-Xylene	21.24	10,732	

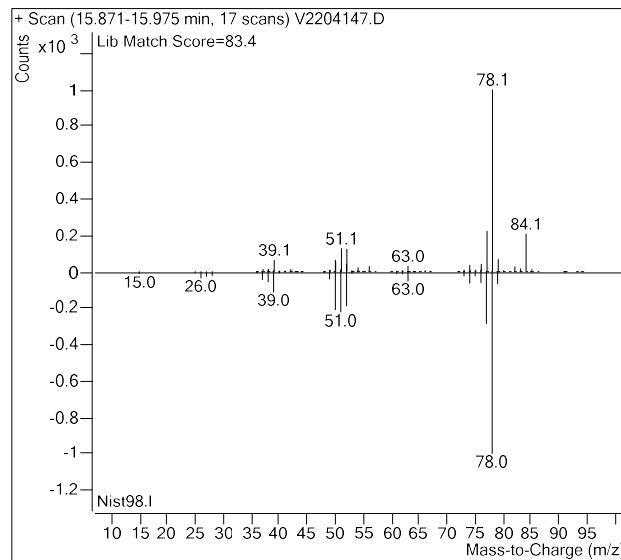
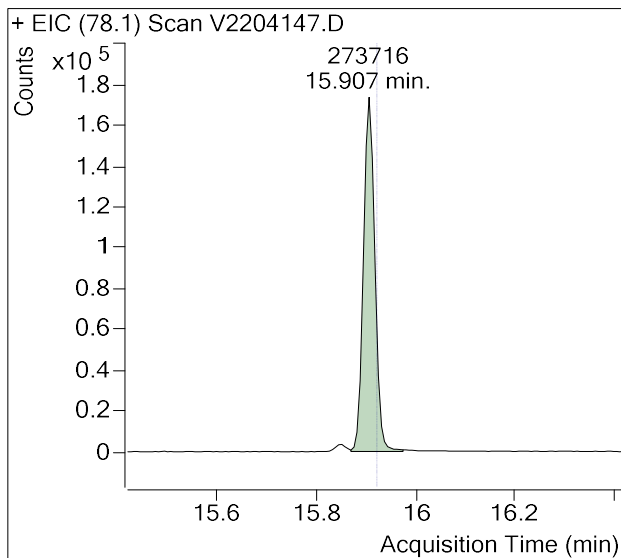
**(m)=Manual Integration**

**1,3-Butadiene**

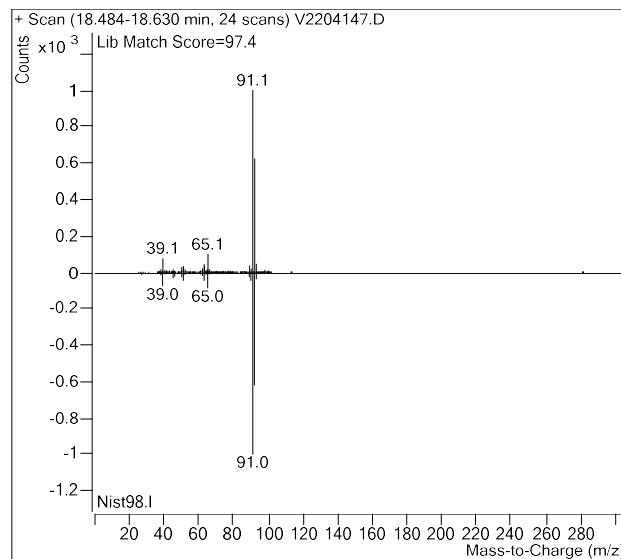
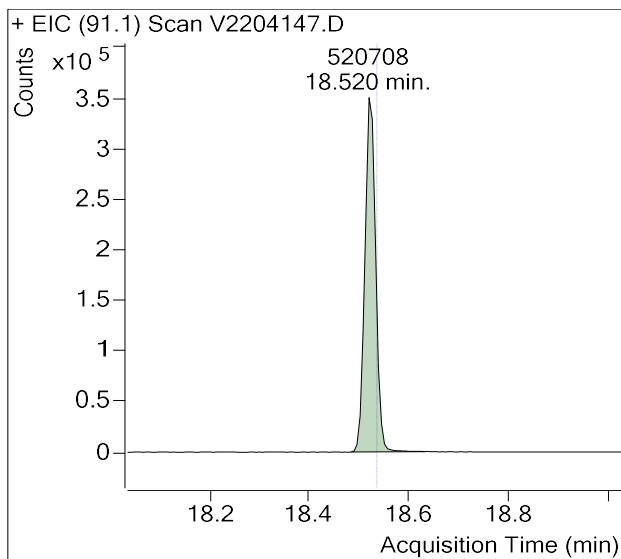


Sample Name : USSCL-PT05-S-20230117  
Sample Info : B17448  
Data File : V2204147.D  
Acquisition Date : 2023-02-02 21:09:03  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene

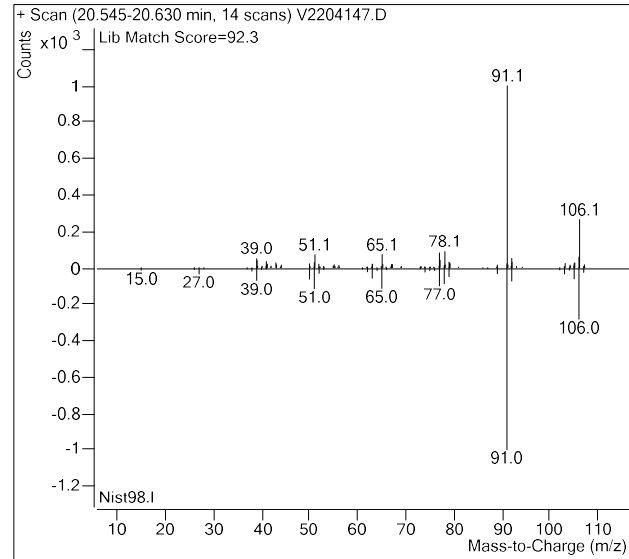
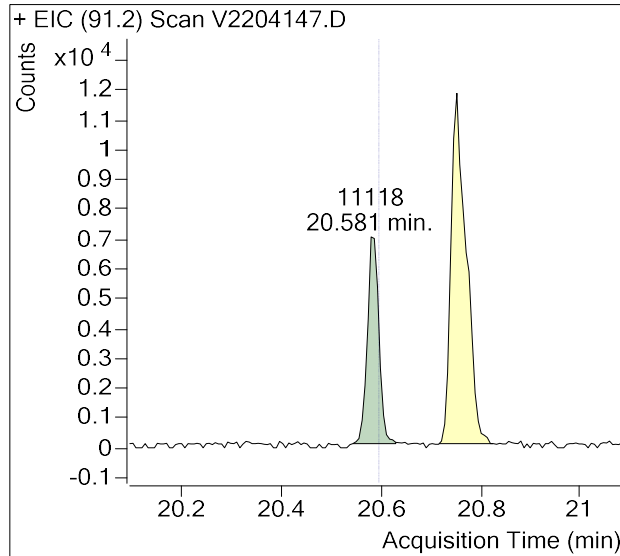


## Toluene

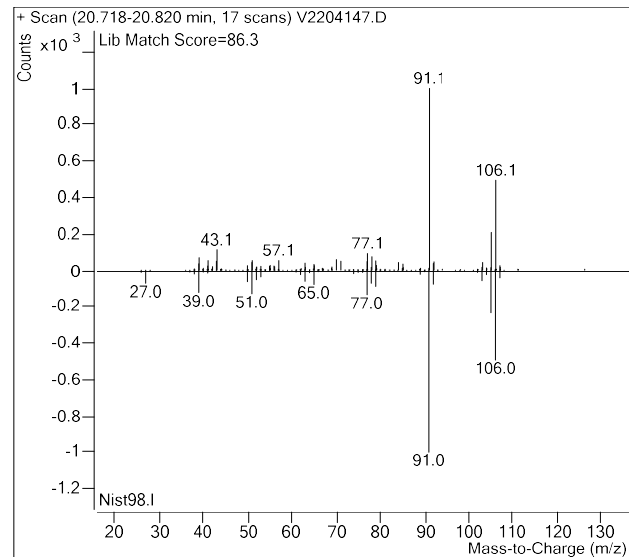
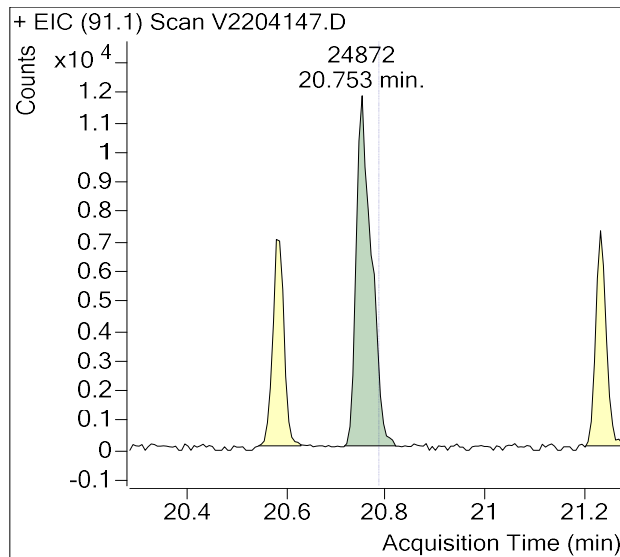


Sample Name : USSCL-PT05-S-20230117  
Sample Info : B17448  
Data File : V2204147.D  
Acquisition Date : 2023-02-02 21:09:03  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

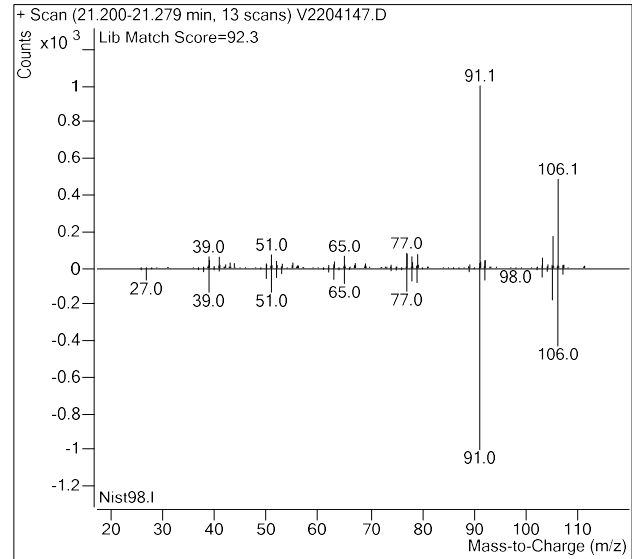
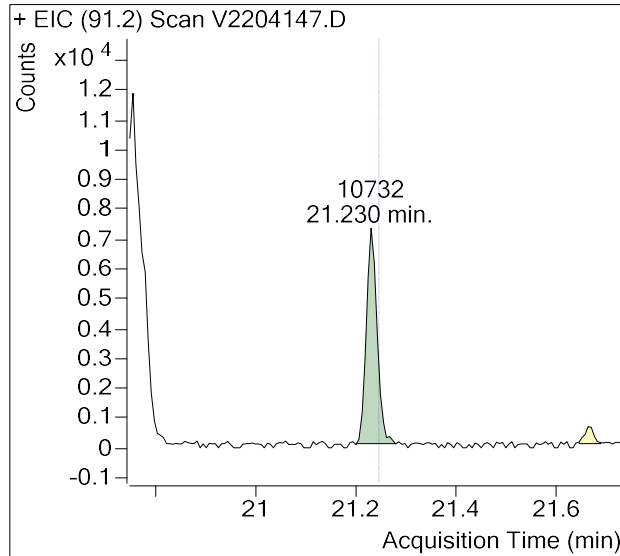


## m-/p-Xylenes



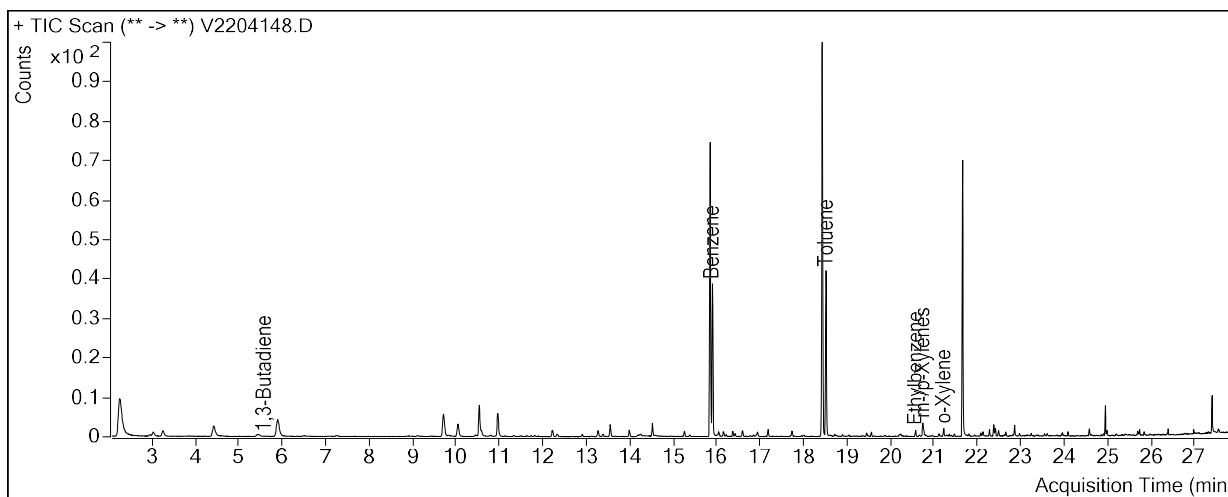
Sample Name : USSCL-PT05-S-20230117  
Sample Info : B17448  
Data File : V2204147.D  
Acquisition Date : 2023-02-02 21:09:03  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene





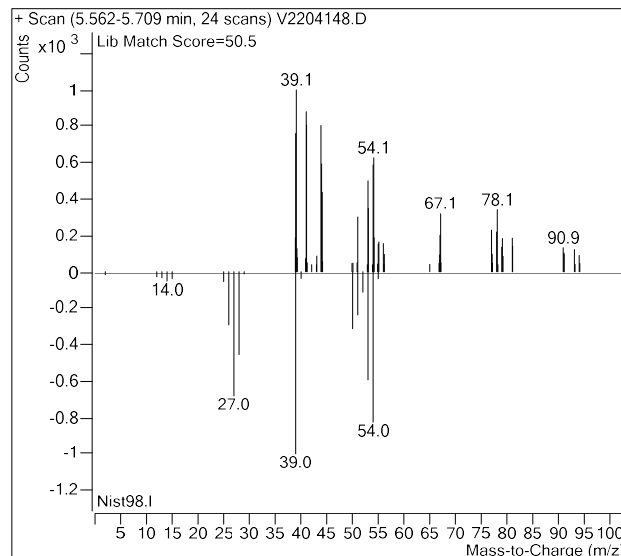
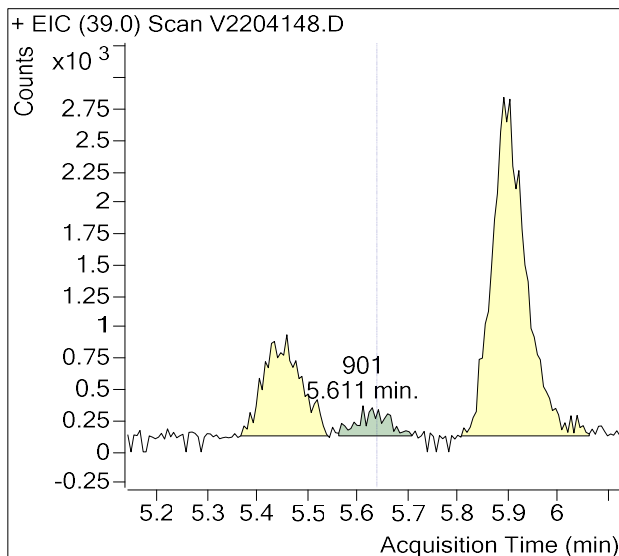
Sample Name : USSCL-PT06-S-20230117  
Sample Info : B18397  
Data File : V2204148.D  
Acquisition Date : 2023-02-02 21:53:03  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	901	
Benzene-d6 (IS)	15.86	623,157	
Benzene	15.92	310,078	
Toluene-d8 (IS)	18.45	622,037	
Toluene	18.53	274,455	
Ethylbenzene	20.59	10,449	
m-/p-Xylenes	20.78	26,341	
o-Xylene	21.24	10,804	

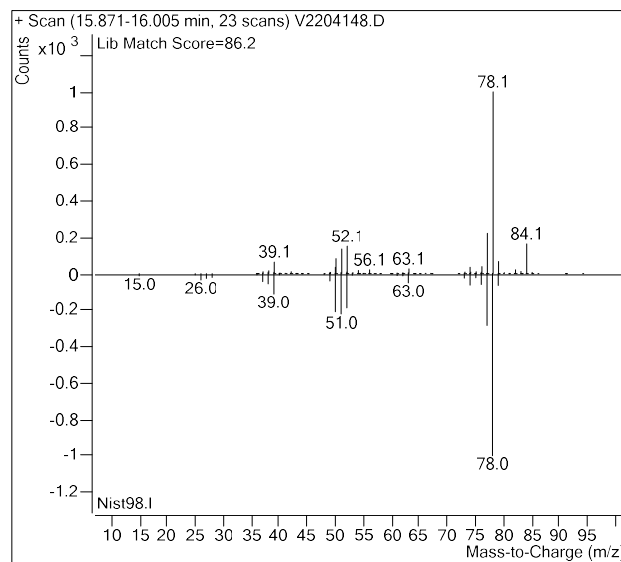
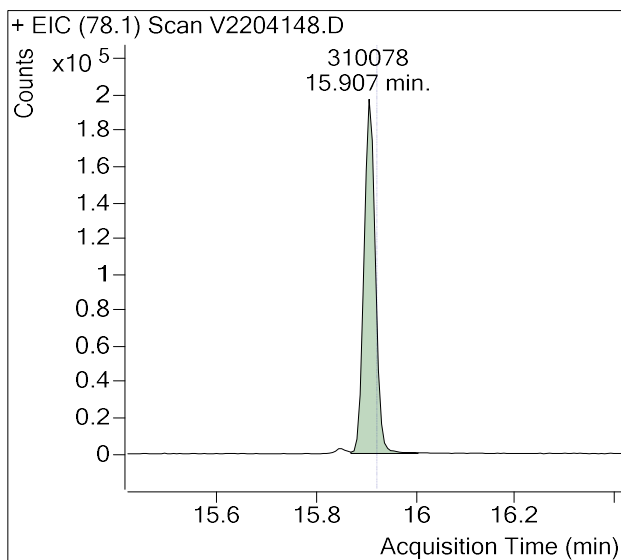
**(m)=Manual Integration**

**1,3-Butadiene**

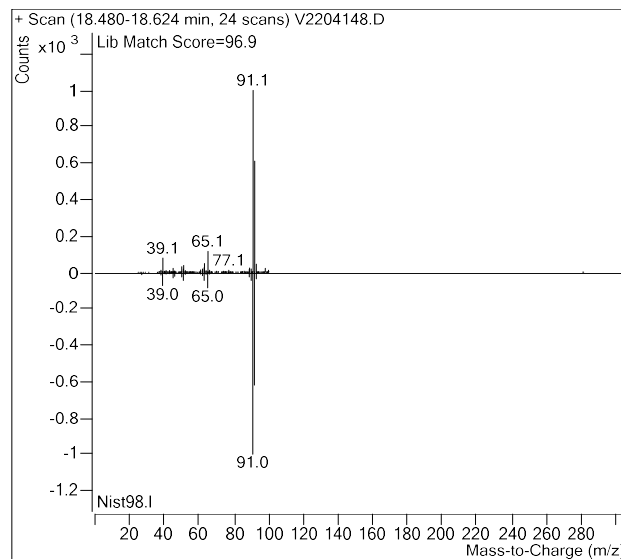
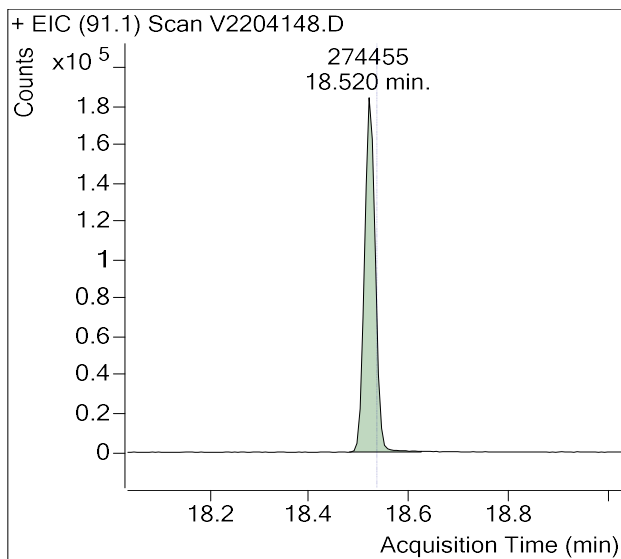


Sample Name : USSCL-PT06-S-20230117  
Sample Info : B18397  
Data File : V2204148.D  
Acquisition Date : 2023-02-02 21:53:03  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene

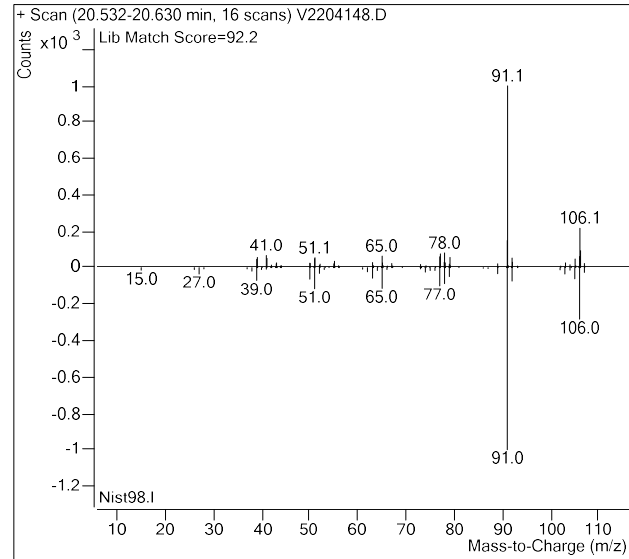
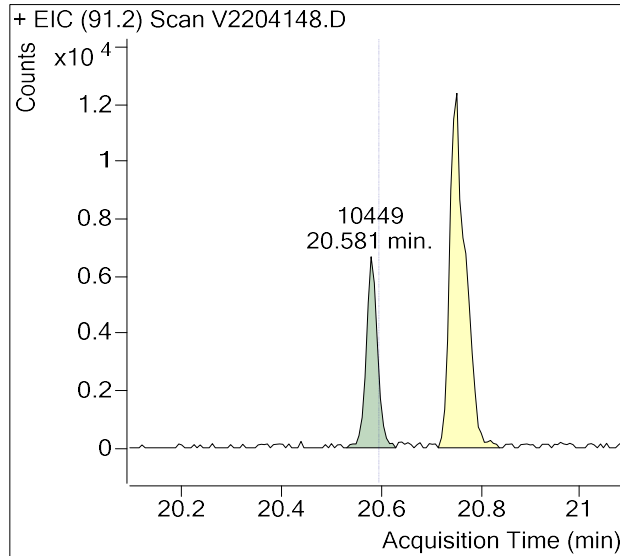


## Toluene

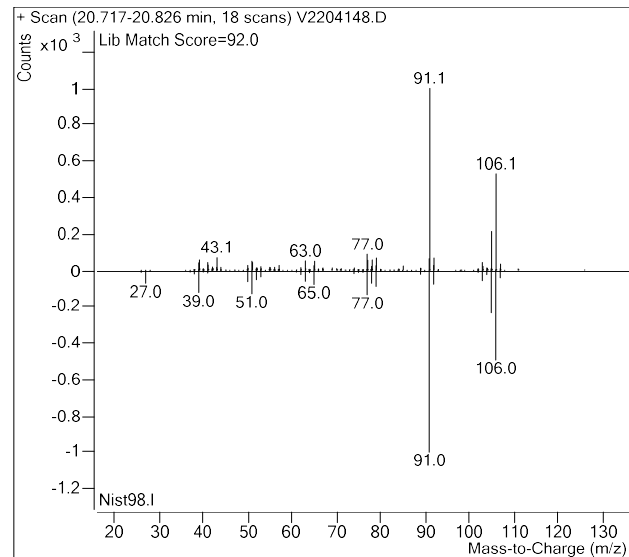
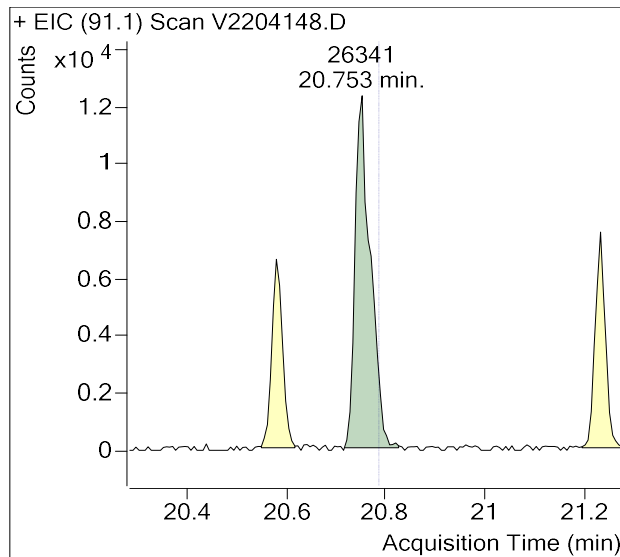


Sample Name : USSCL-PT06-S-20230117  
Sample Info : B18397  
Data File : V2204148.D  
Acquisition Date : 2023-02-02 21:53:03  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

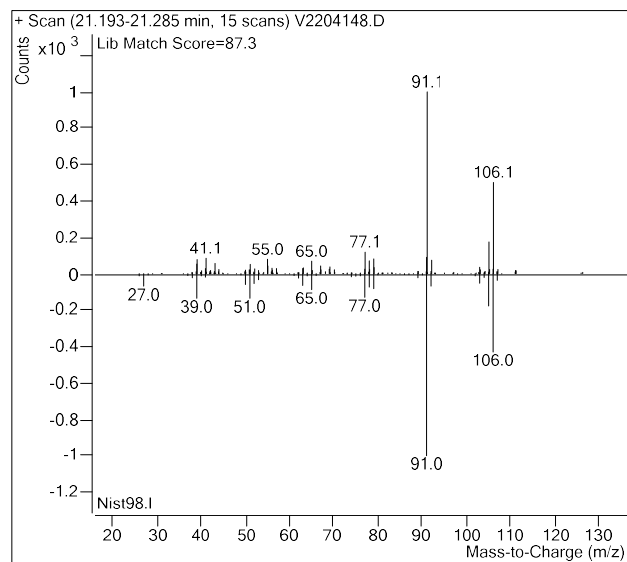
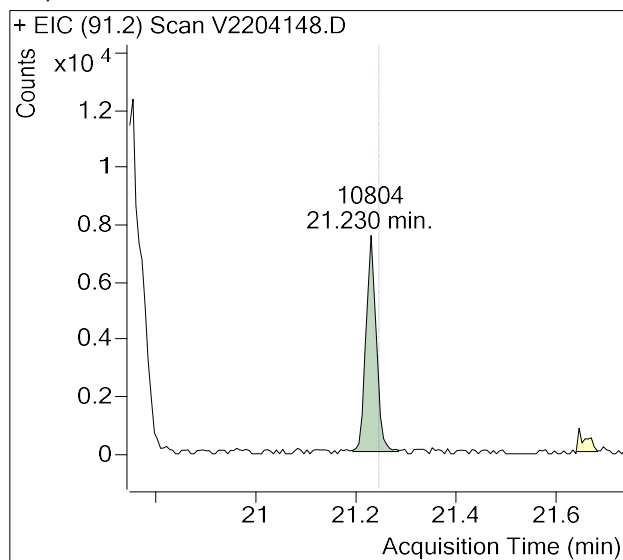


## m-/p-Xylenes

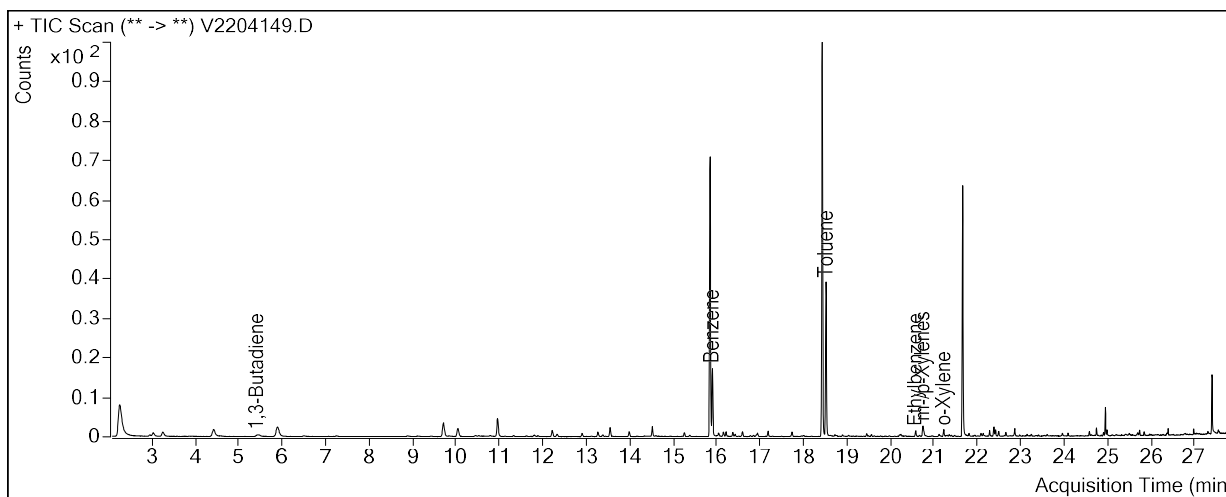


Sample Name : USSCL-PT06-S-20230117  
Sample Info : B18397  
Data File : V2204148.D  
Acquisition Date : 2023-02-02 21:53:03  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene



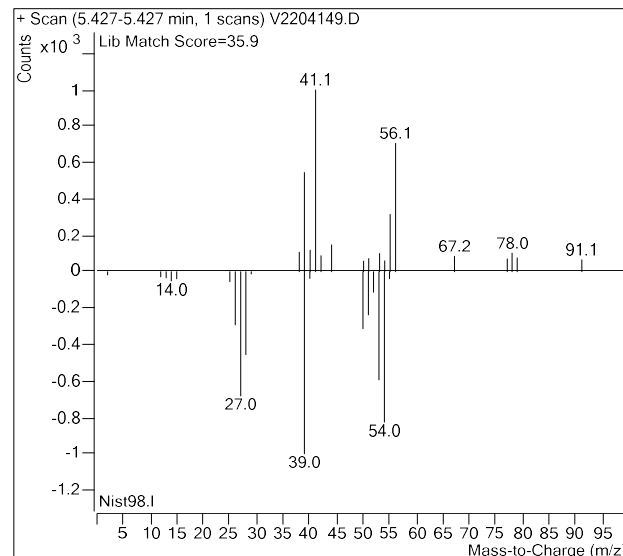
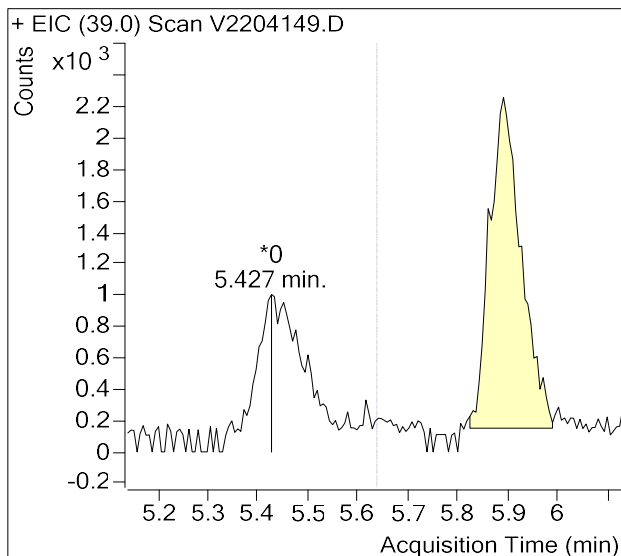
Sample Name : USSCL-PT07-S-20230117  
Sample Info : B43665  
Data File : V2204149.D  
Acquisition Date : 2023-02-02 22:36:42  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	0	m
Benzene-d6 (IS)	15.86	807,788	
Benzene	15.92	178,527	
Toluene-d8 (IS)	18.45	810,074	
Toluene	18.53	338,049	
Ethylbenzene	20.59	13,973	
m-/p-Xylenes	20.78	26,987	
o-Xylene	21.24	12,226	

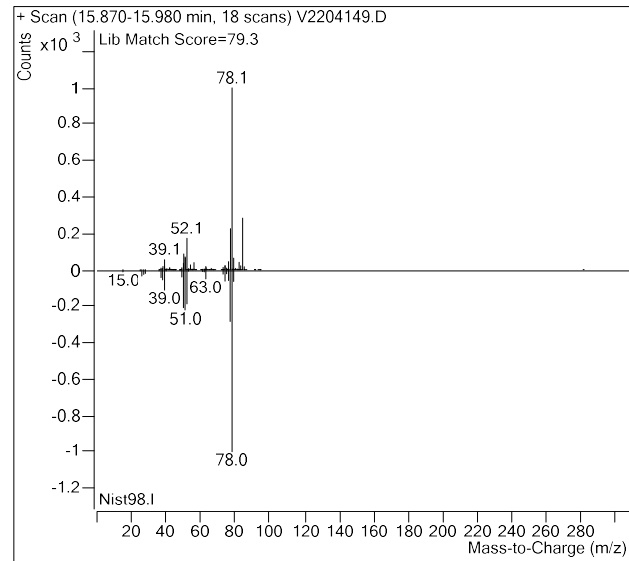
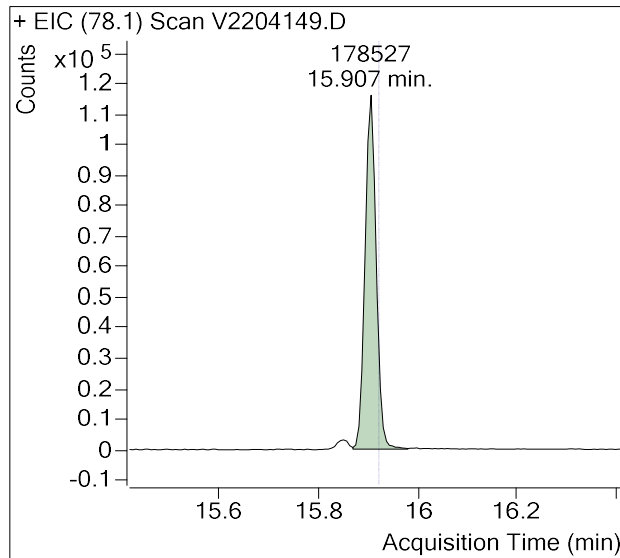
**(m)=Manual Integration**

**1,3-Butadiene**

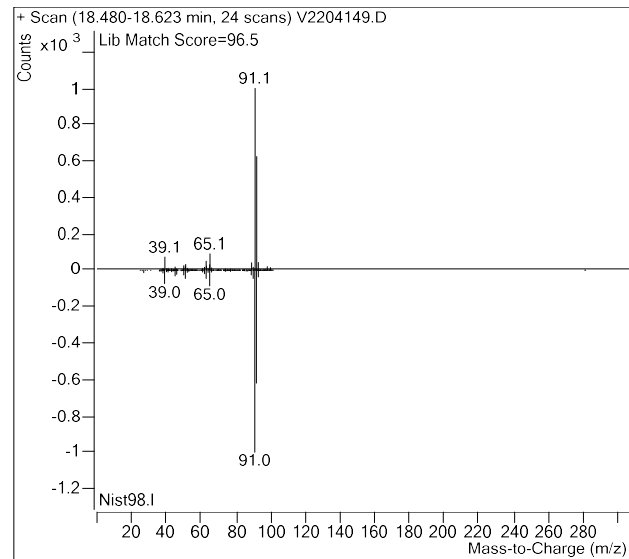
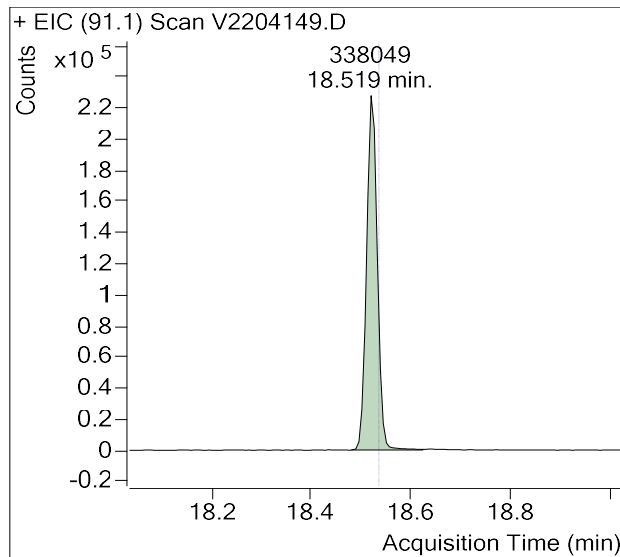


Sample Name : USSCL-PT07-S-20230117  
Sample Info : B43665  
Data File : V2204149.D  
Acquisition Date : 2023-02-02 22:36:42  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene

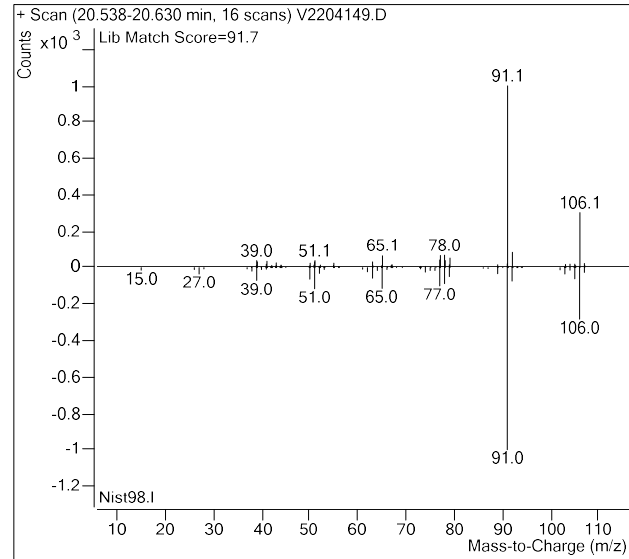
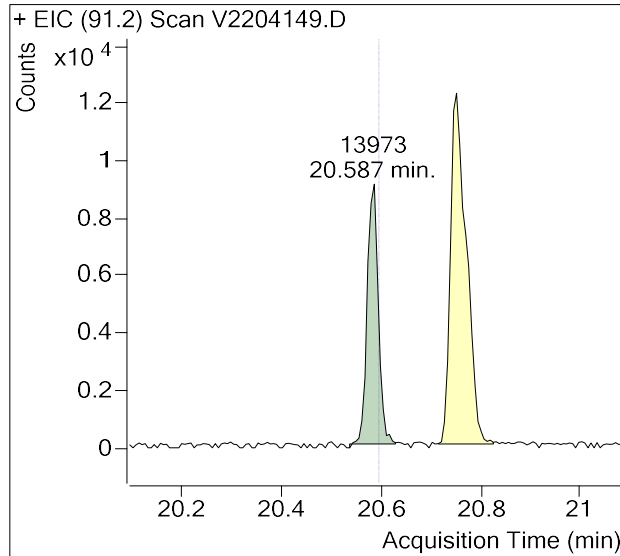


## Toluene

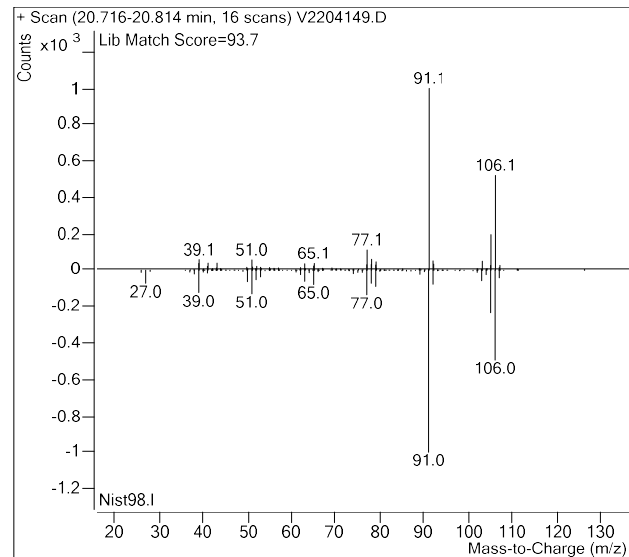
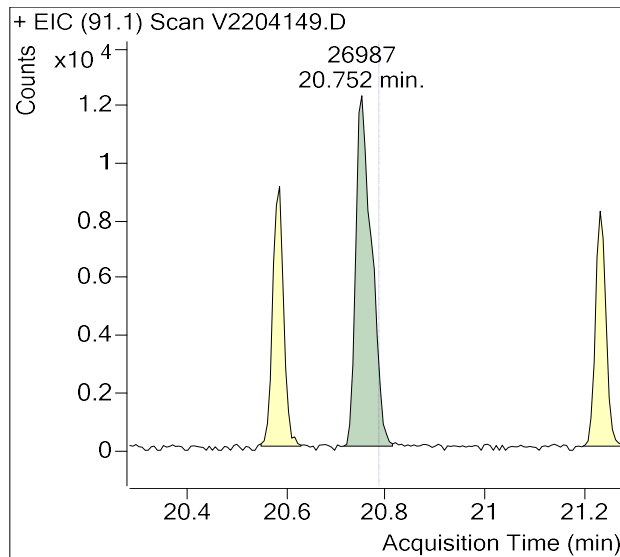


Sample Name : USSCL-PT07-S-20230117  
Sample Info : B43665  
Data File : V2204149.D  
Acquisition Date : 2023-02-02 22:36:42  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

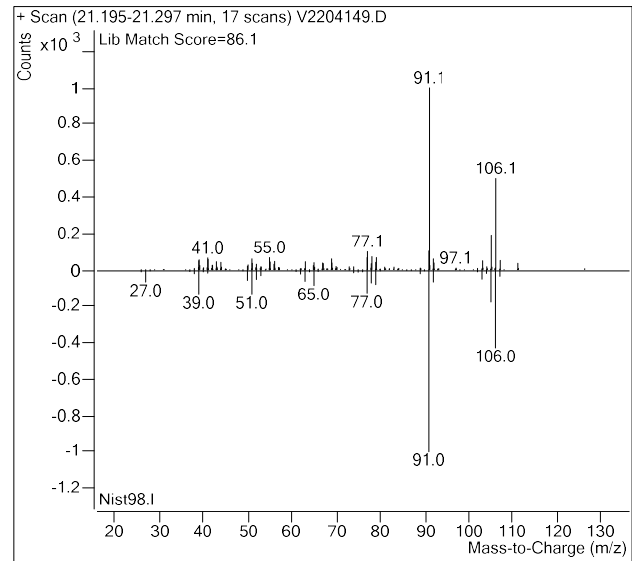
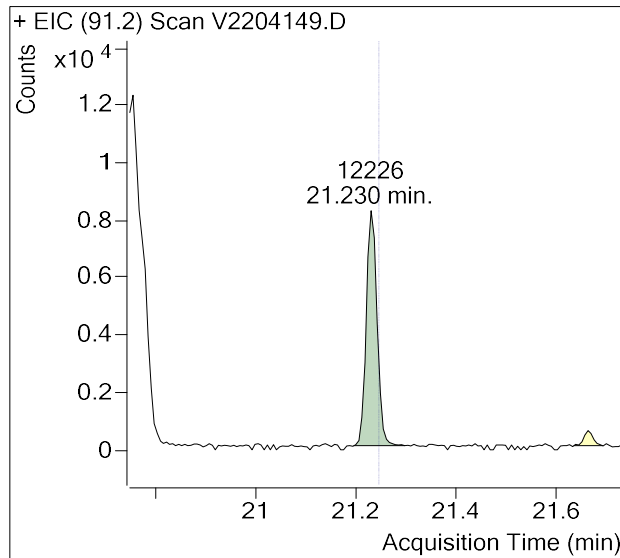


## m-/p-Xylenes



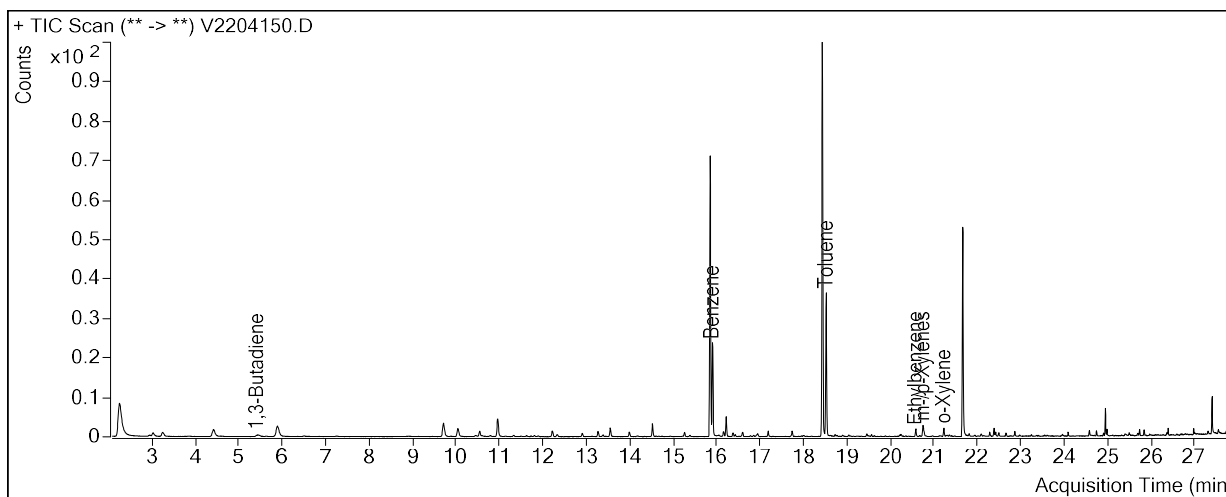
Sample Name : USSCL-PT07-S-20230117  
Sample Info : B43665  
Data File : V2204149.D  
Acquisition Date : 2023-02-02 22:36:42  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene





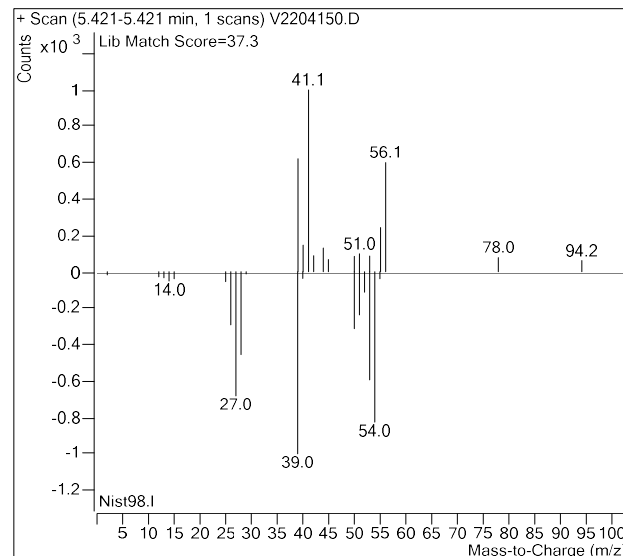
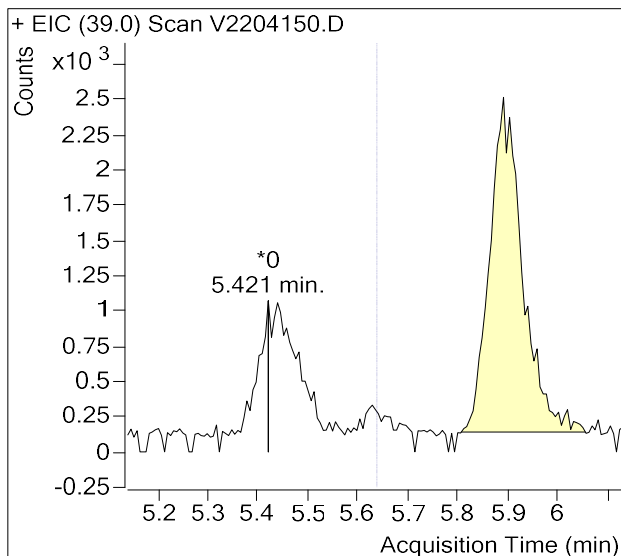
Sample Name : USSCL-PT08-S-20230117  
Sample Info : B20888  
Data File : V2204150.D  
Acquisition Date : 2023-02-02 23:20:20  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	0	m
Benzene-d6 (IS)	15.86	810,372	
Benzene	15.92	259,550	
Toluene-d8 (IS)	18.45	817,119	
Toluene	18.53	321,118	
Ethylbenzene	20.59	17,588	
m-/p-Xylenes	20.78	28,333	
o-Xylene	21.24	15,512	

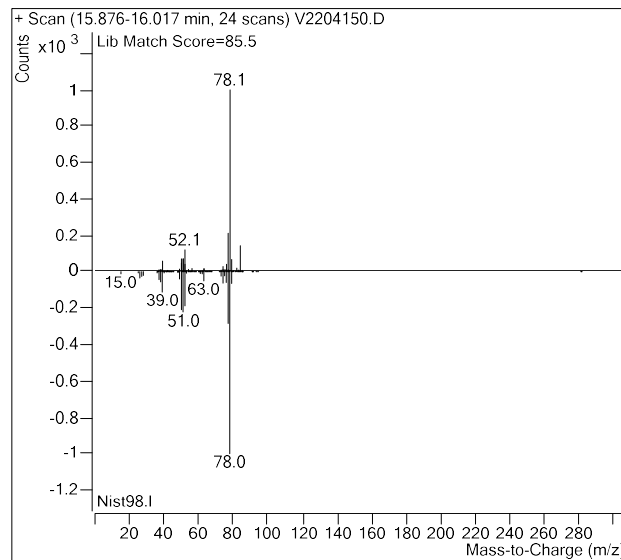
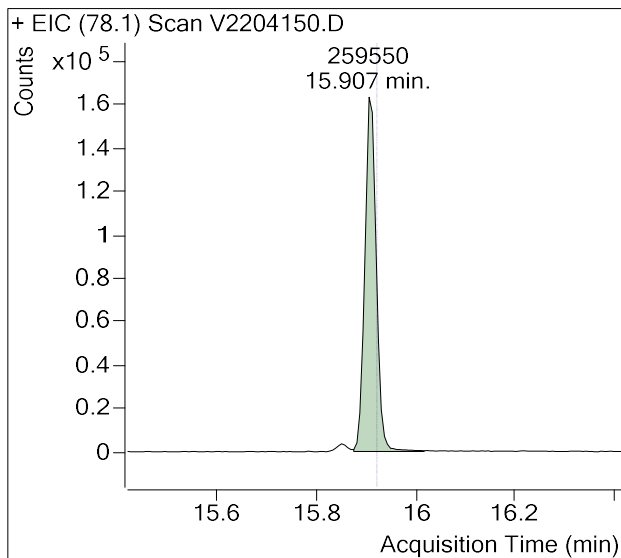
**(m)=Manual Integration**

**1,3-Butadiene**

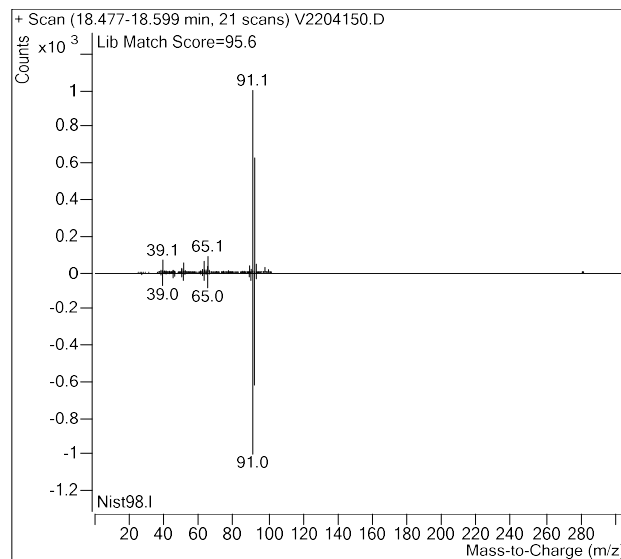
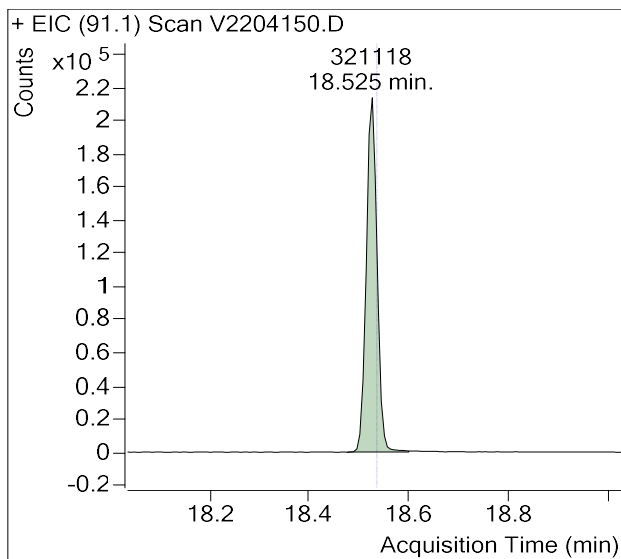


Sample Name : USSCL-PT08-S-20230117  
Sample Info : B20888  
Data File : V2204150.D  
Acquisition Date : 2023-02-02 23:20:20  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene



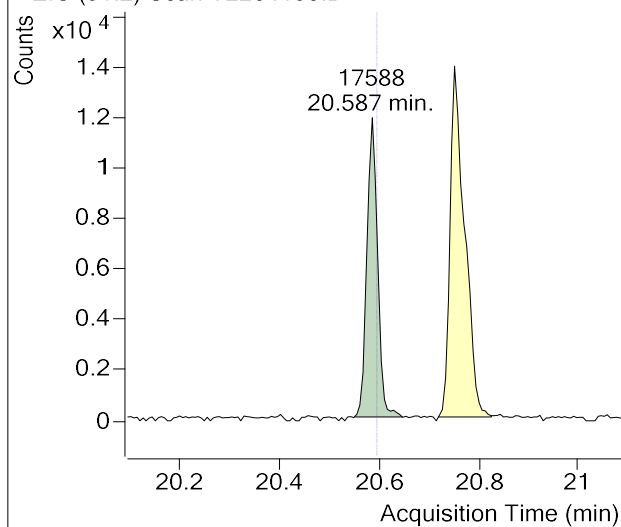
## Toluene



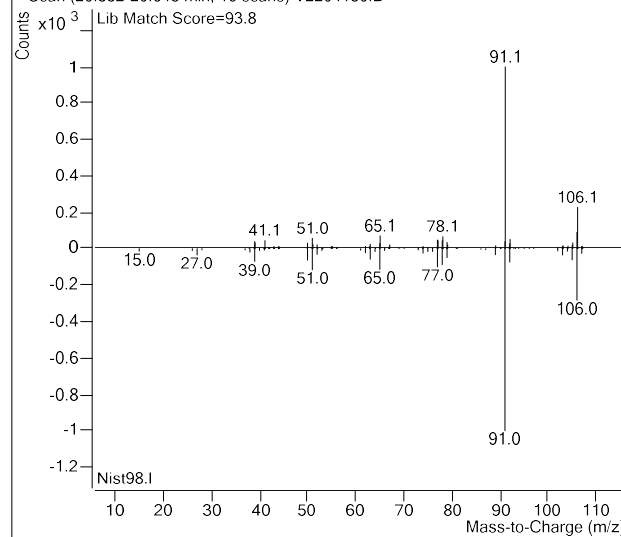
Sample Name : USSCL-PT08-S-20230117  
Sample Info : B20888  
Data File : V2204150.D  
Acquisition Date : 2023-02-02 23:20:20  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

+ EIC (91.2) Scan V2204150.D

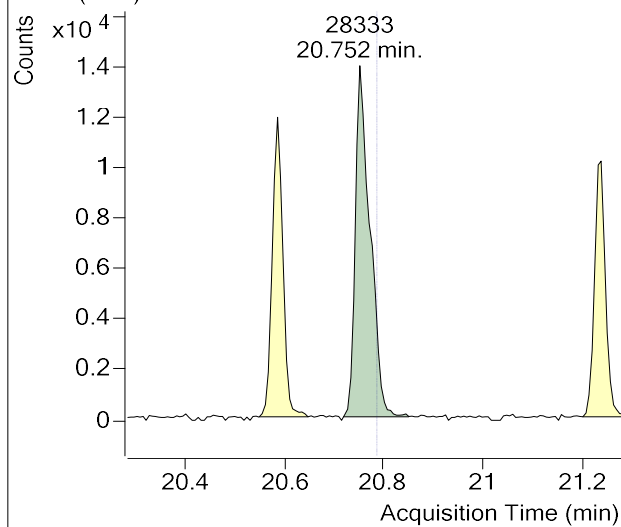


+ Scan (20.552-20.648 min, 16 scans) V2204150.D

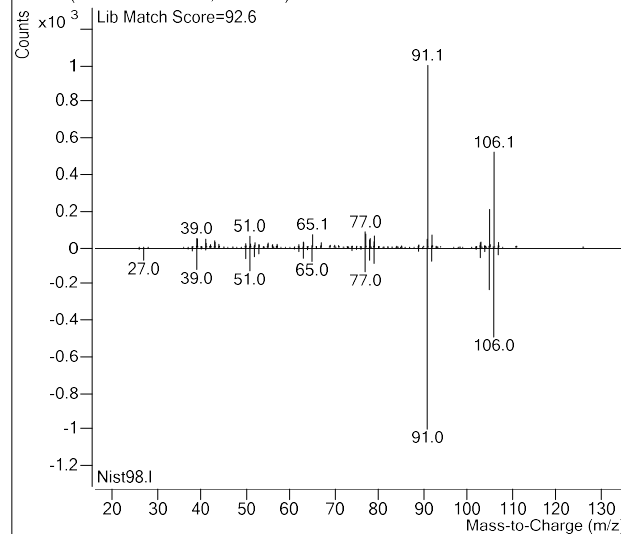


## m-/p-Xylenes

+ EIC (91.1) Scan V2204150.D

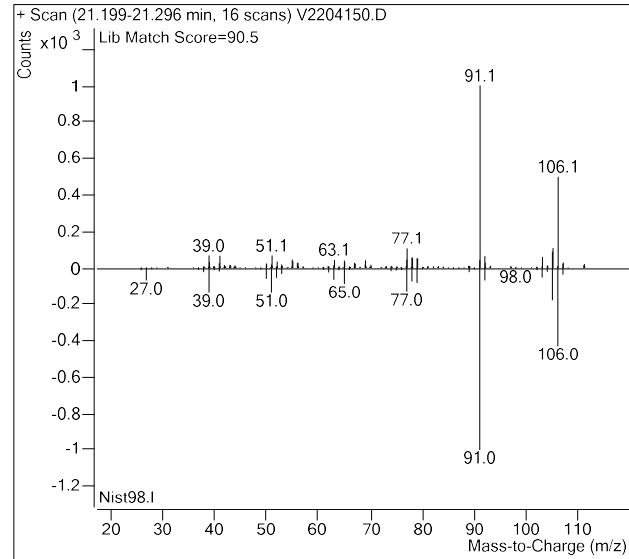
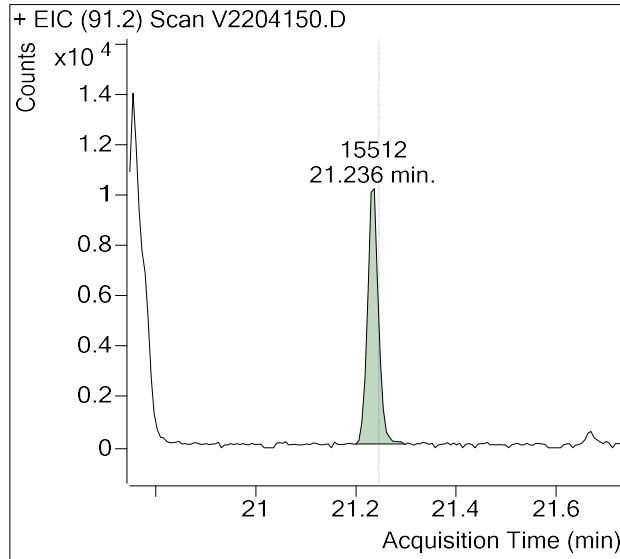


+ Scan (20.719-20.850 min, 22 scans) V2204150.D

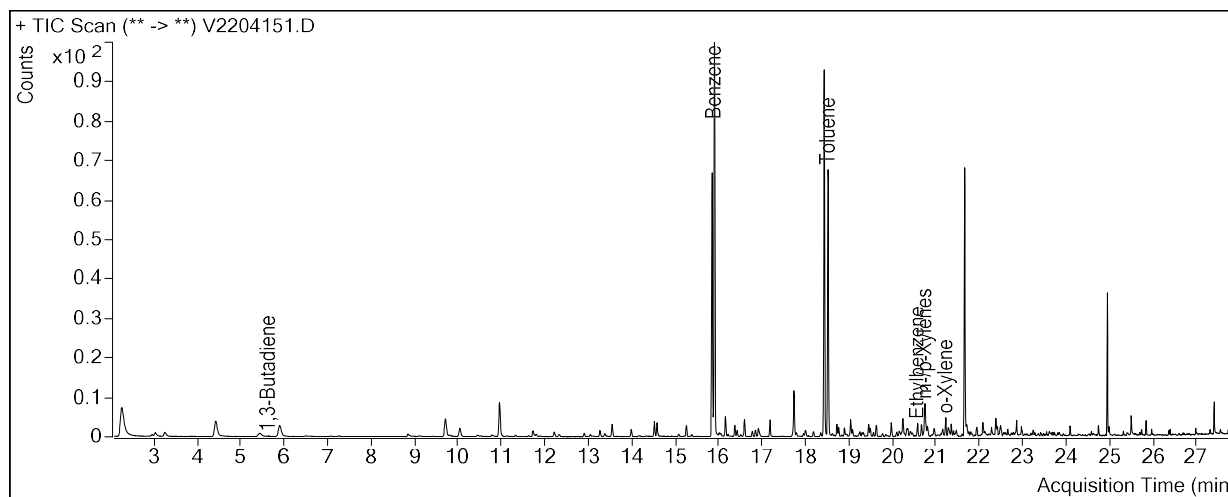


Sample Name : USSCL-PT08-S-20230117  
Sample Info : B20888  
Data File : V2204150.D  
Acquisition Date : 2023-02-02 23:20:20  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene



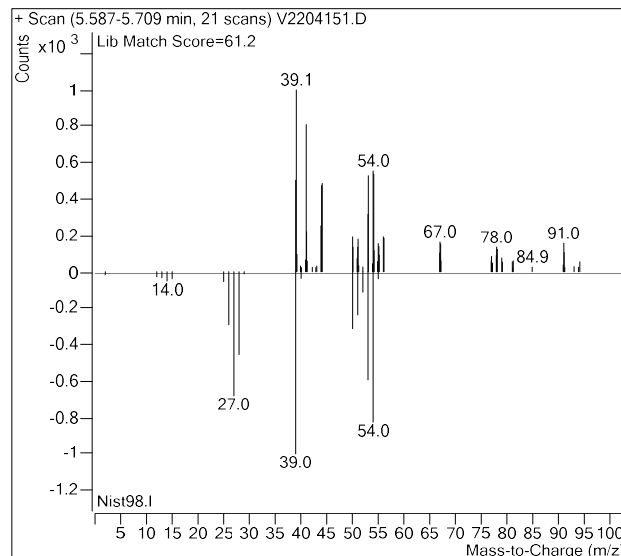
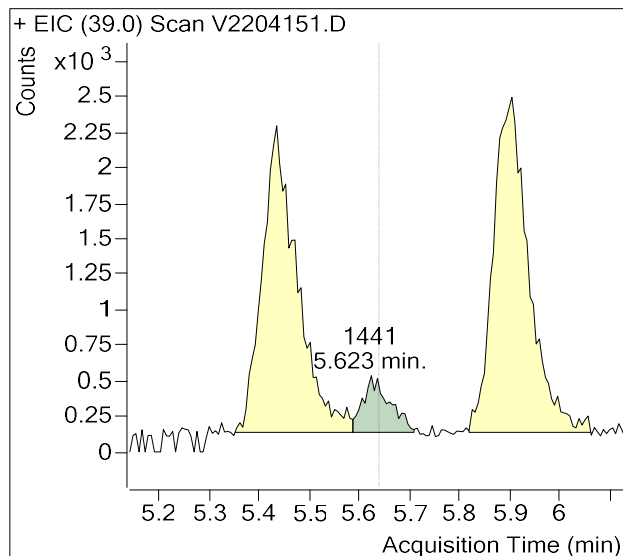
Sample Name : USSCL-PT09-S-20230117  
Sample Info : B46357  
Data File : V2204151.D  
Acquisition Date : 2023-02-03 00:03:26  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	1,441	
Benzene-d6 (IS)	15.86	808,386	
Benzene	15.92	1,150,416	
Toluene-d8 (IS)	18.45	808,742	
Toluene	18.53	643,464	
Ethylbenzene	20.59	26,224	
m-/p-Xylenes	20.78	81,089	
o-Xylene	21.24	30,419	

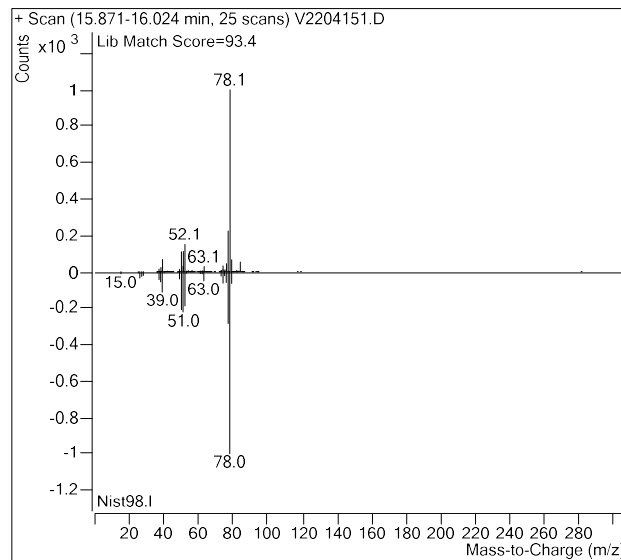
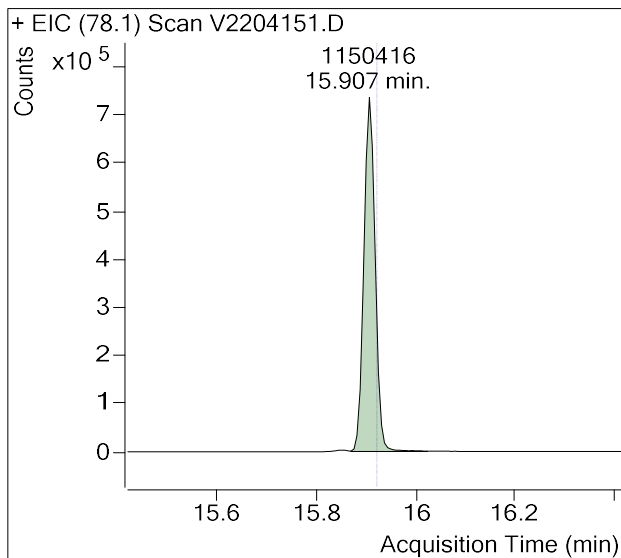
**(m)=Manual Integration**

**1,3-Butadiene**

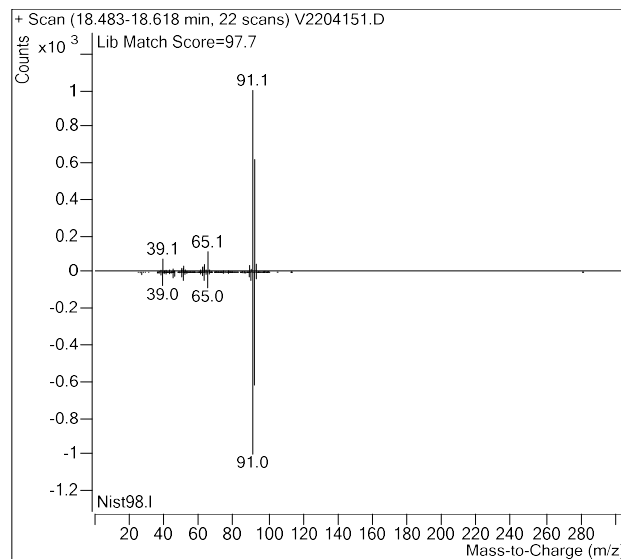
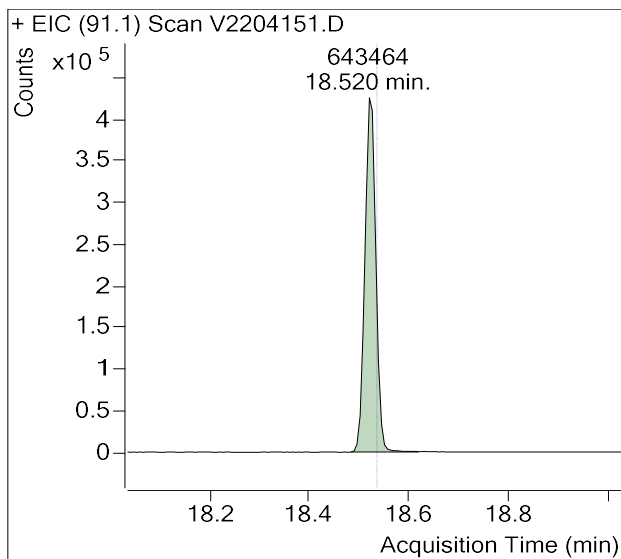


Sample Name : USSCL-PT09-S-20230117  
Sample Info : B46357  
Data File : V2204151.D  
Acquisition Date : 2023-02-03 00:03:26  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene



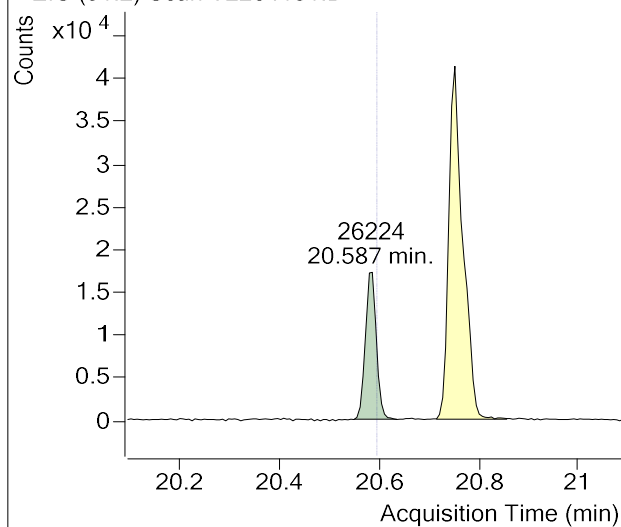
## Toluene



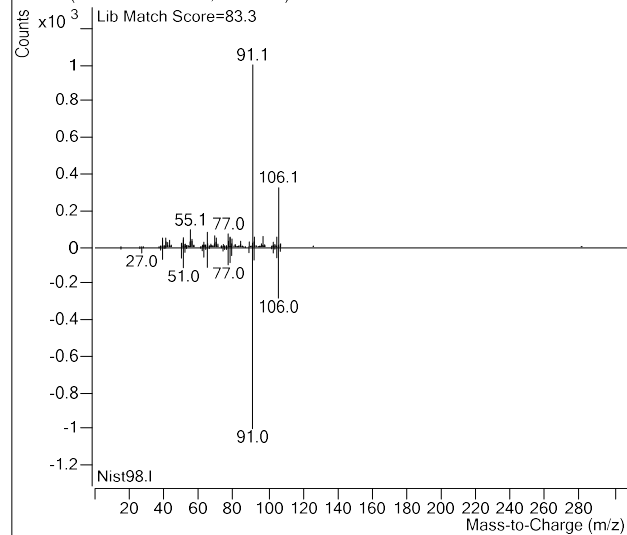
Sample Name : USSCL-PT09-S-20230117  
Sample Info : B46357  
Data File : V2204151.D  
Acquisition Date : 2023-02-03 00:03:26  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

+ EIC (91.2) Scan V2204151.D

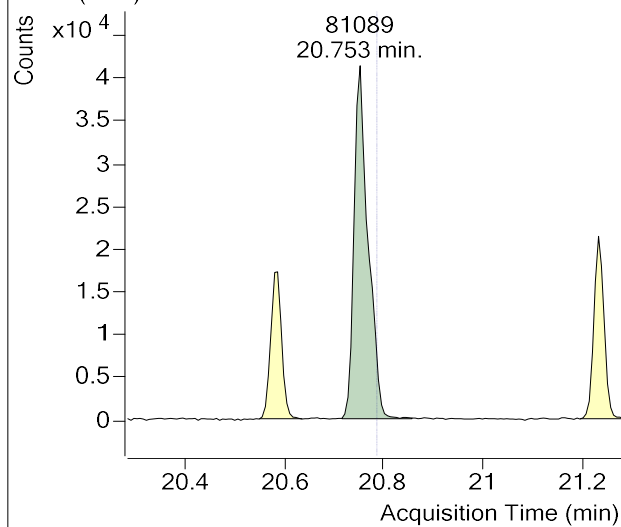


+ Scan (20.551-20.636 min, 14 scans) V2204151.D

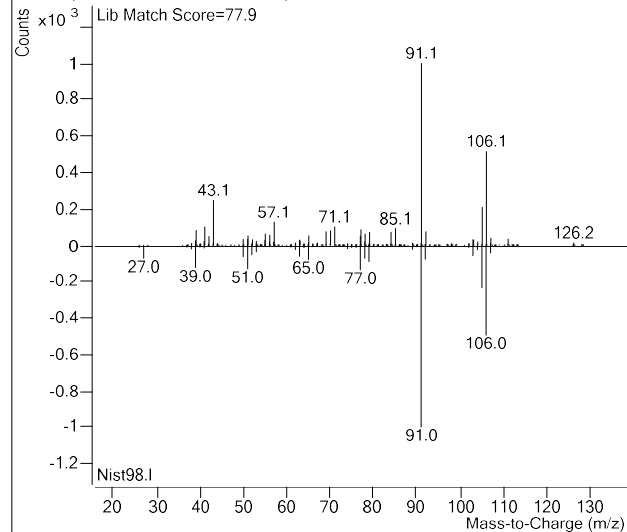


## m-/p-Xylenes

+ EIC (91.1) Scan V2204151.D



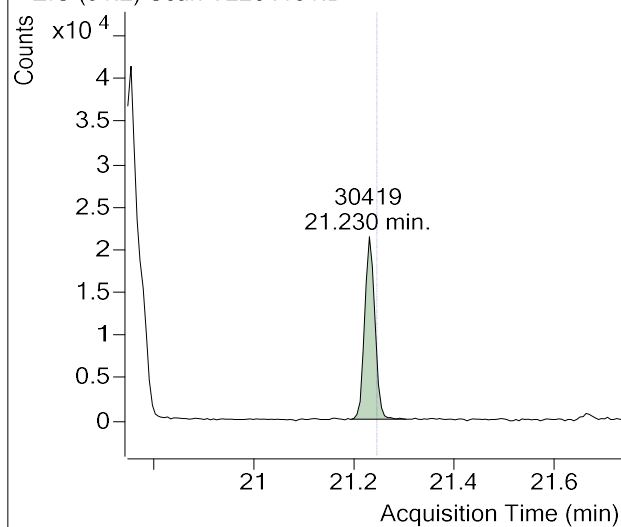
+ Scan (20.716-20.857 min, 24 scans) V2204151.D



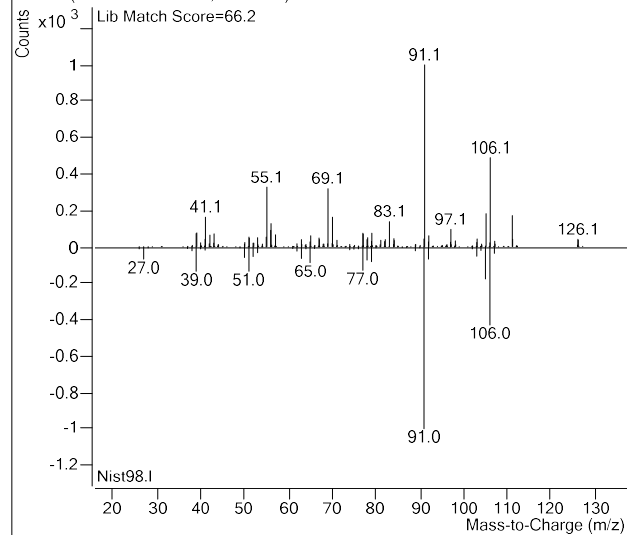
Sample Name : USSCL-PT09-S-20230117  
Sample Info : B46357  
Data File : V2204151.D  
Acquisition Date : 2023-02-03 00:03:26  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene

+ EIC (91.2) Scan V2204151.D

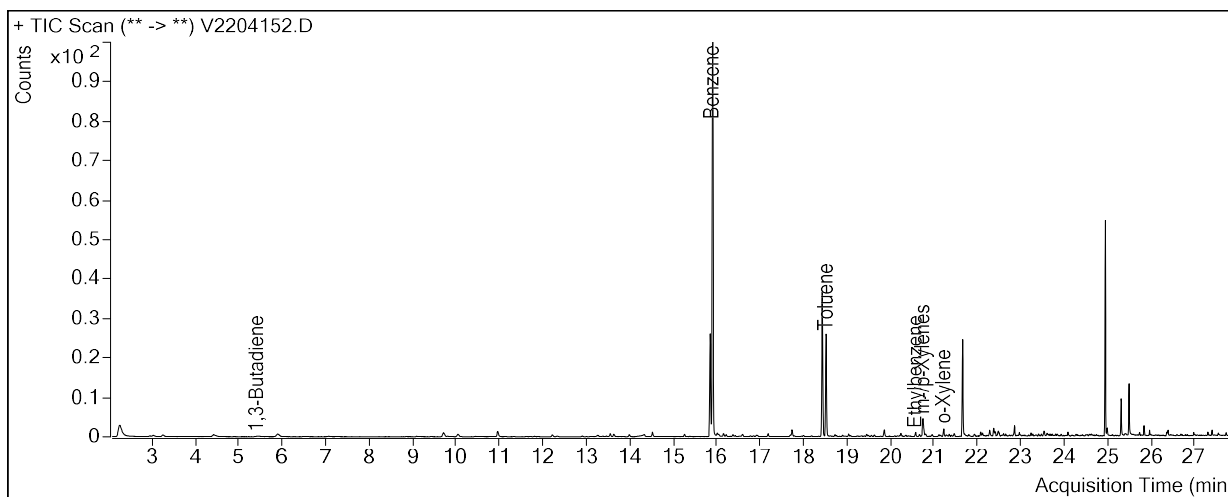


+ Scan (21.194-21.303 min, 18 scans) V2204151.D





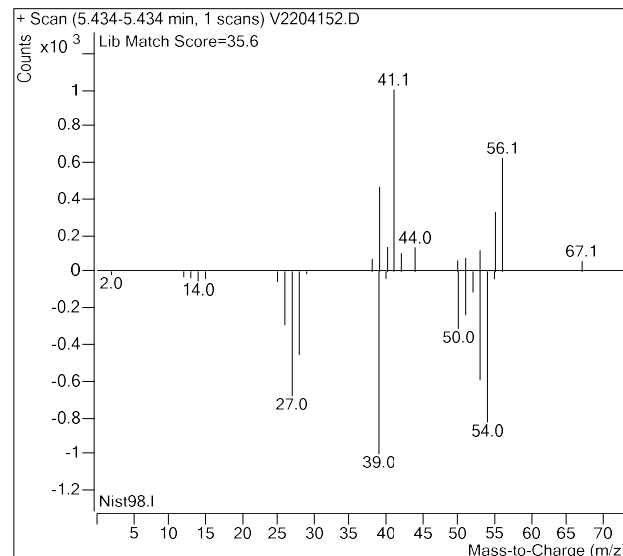
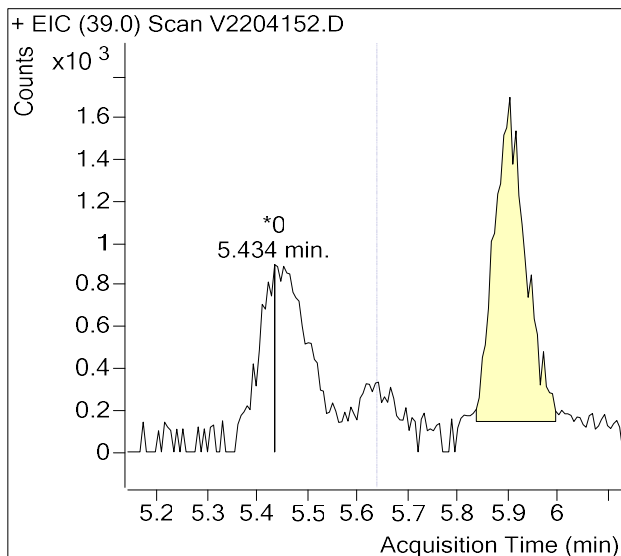
Sample Name : USSCL-PT10-S-20230117  
Sample Info : C20585  
Data File : V2204152.D  
Acquisition Date : 2023-02-03 00:45:54  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	0	m
Benzene-d6 (IS)	15.86	805,145	
Benzene	15.92	2,966,168	
Toluene-d8 (IS)	18.45	809,434	
Toluene	18.53	628,604	
Ethylbenzene	20.59	22,580	
m-/p-Xylenes	20.78	121,406	
o-Xylene	21.24	35,354	

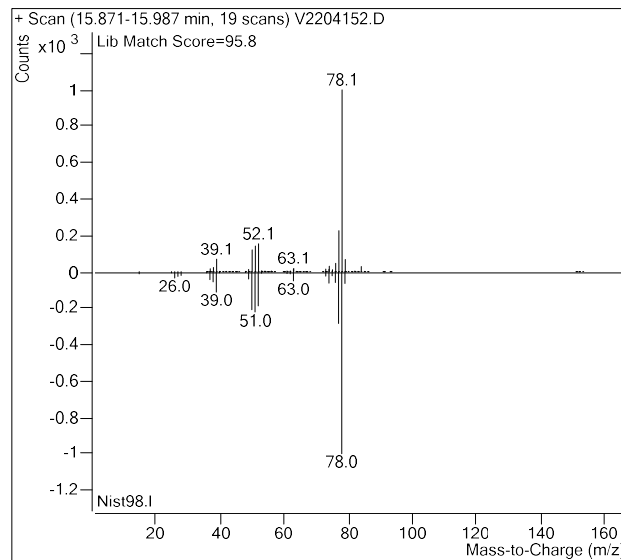
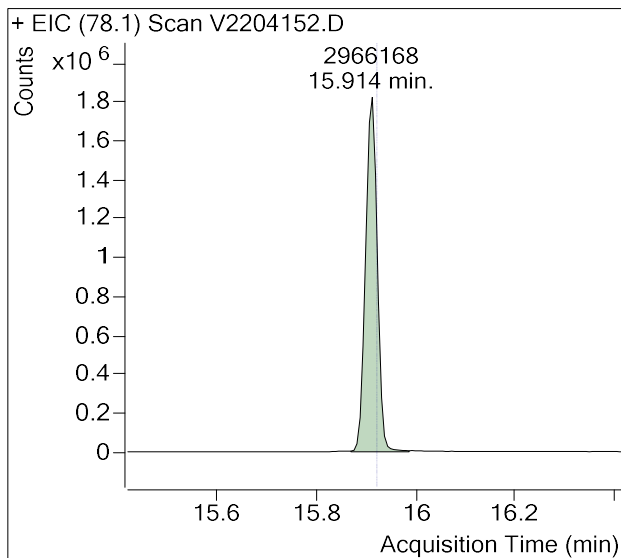
(m)=Manual Integration

1,3-Butadiene

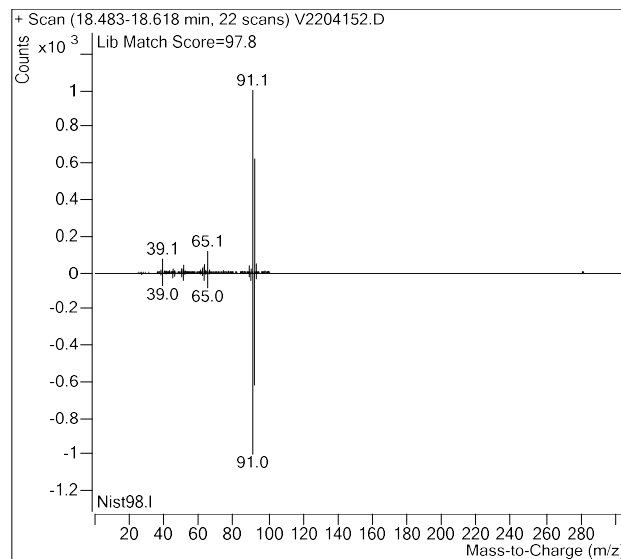
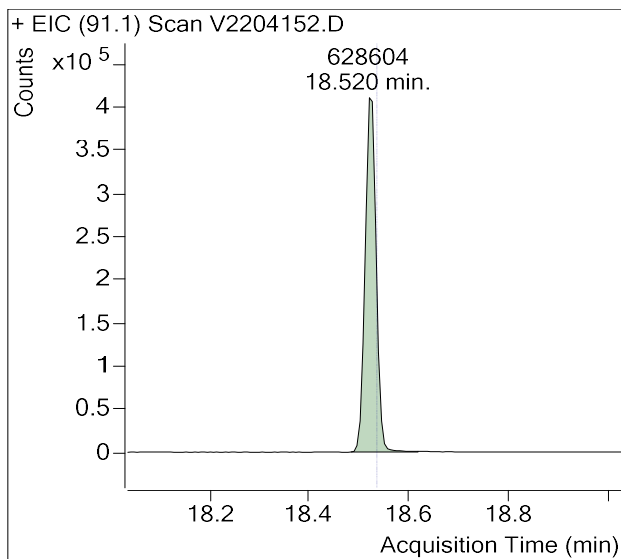


Sample Name : USSCL-PT10-S-20230117  
Sample Info : C20585  
Data File : V2204152.D  
Acquisition Date : 2023-02-03 00:45:54  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene



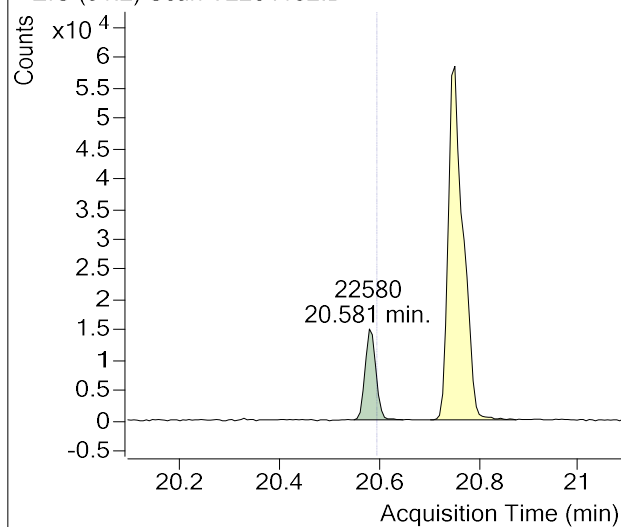
## Toluene



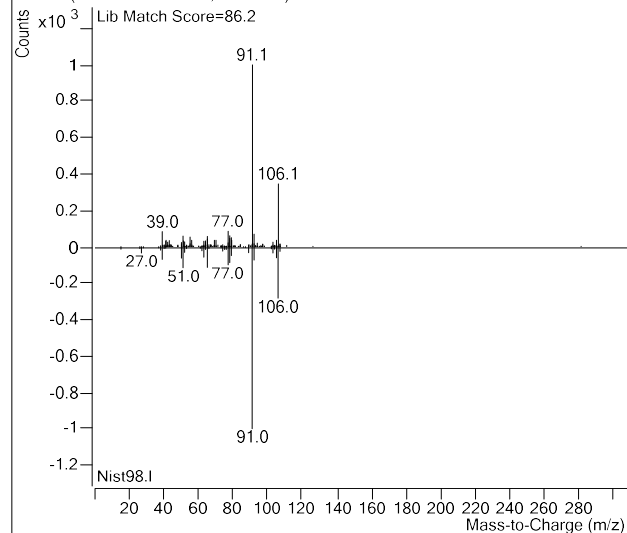
Sample Name : USSCL-PT10-S-20230117  
Sample Info : C20585  
Data File : V2204152.D  
Acquisition Date : 2023-02-03 00:45:54  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

+ EIC (91.2) Scan V2204152.D

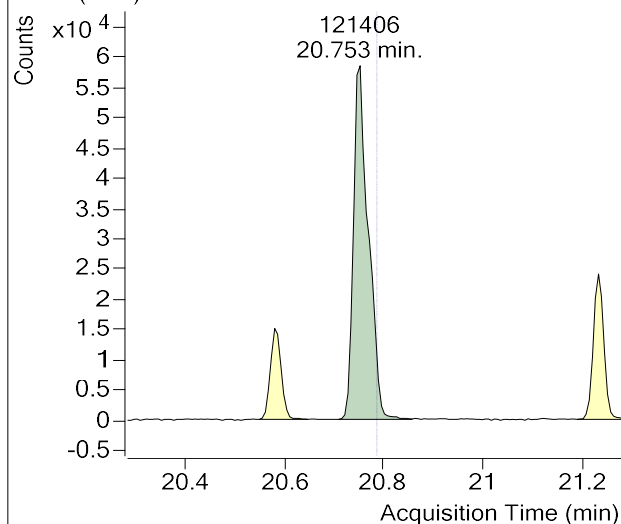


+ Scan (20.551-20.649 min, 16 scans) V2204152.D

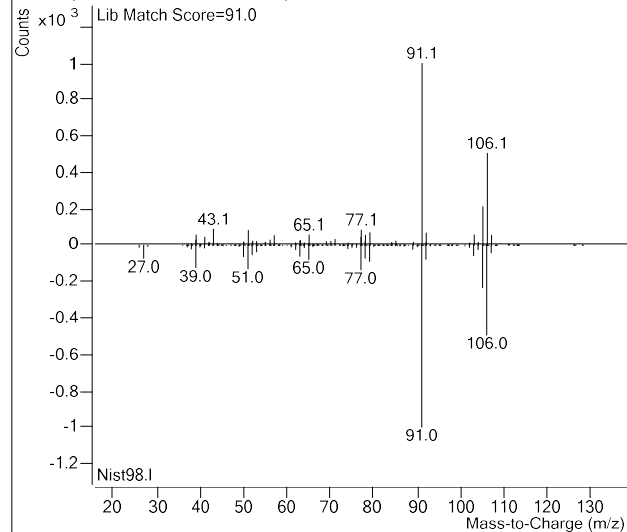


## m-/p-Xylenes

+ EIC (91.1) Scan V2204152.D

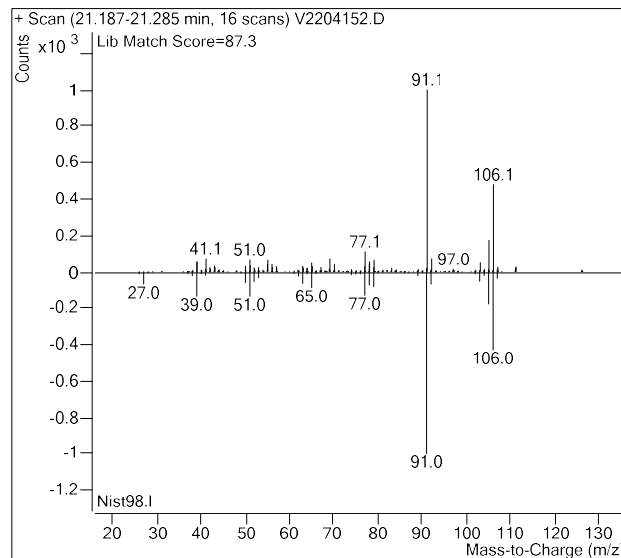
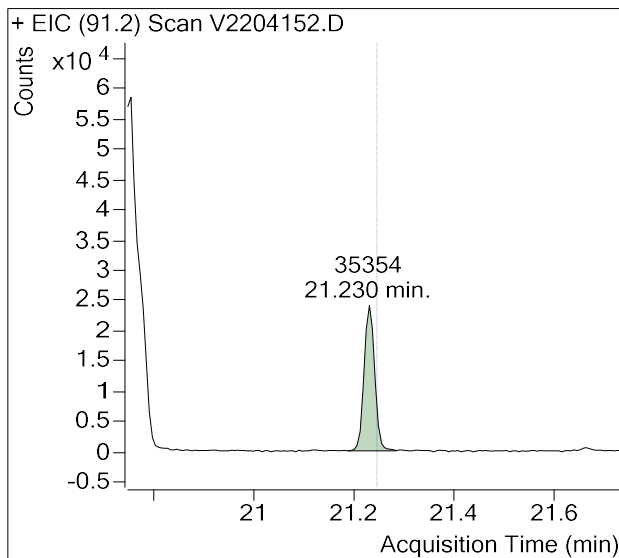


+ Scan (20.710-20.857 min, 24 scans) V2204152.D

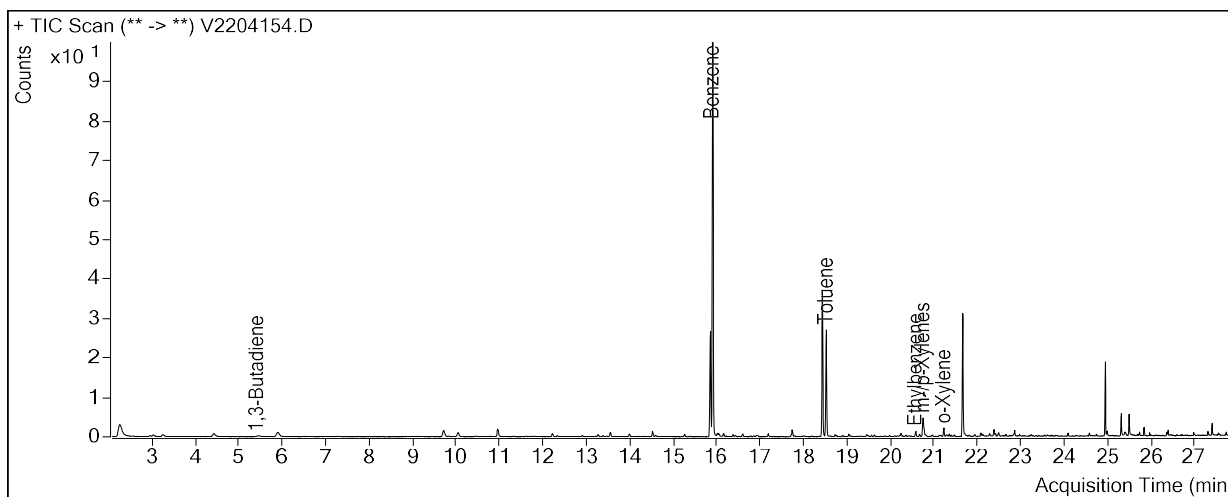


Sample Name : USSCL-PT10-S-20230117  
Sample Info : C20585  
Data File : V2204152.D  
Acquisition Date : 2023-02-03 00:45:54  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene



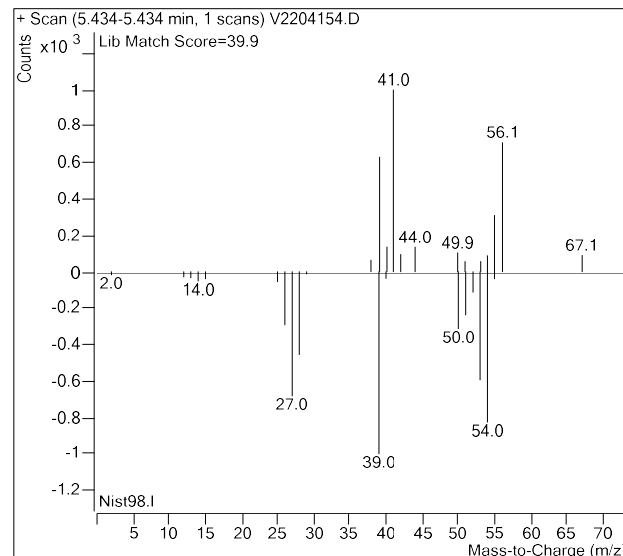
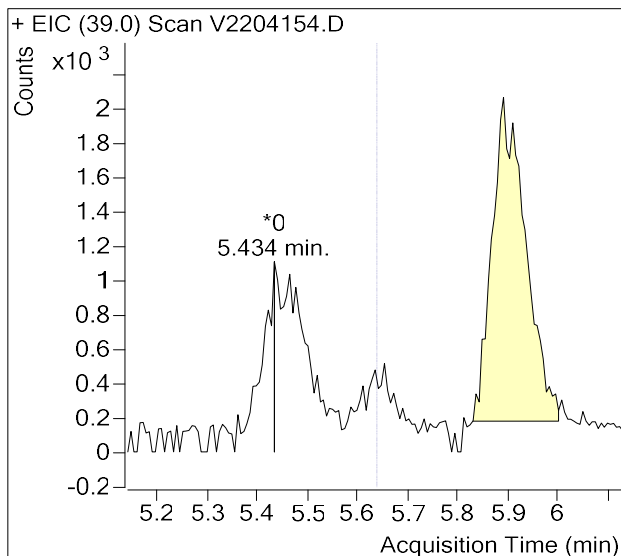
Sample Name : USSCL-PT10-D-20230117  
Sample Info : B47074  
Data File : V2204154.D  
Acquisition Date : 2023-02-03 02:10:28  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	0	m
Benzene-d6 (IS)	15.86	646,329	
Benzene	15.92	2,328,273	
Toluene-d8 (IS)	18.45	648,730	
Toluene	18.53	500,603	
Ethylbenzene	20.59	24,374	
m-/p-Xylenes	20.78	103,020	
o-Xylene	21.24	32,875	

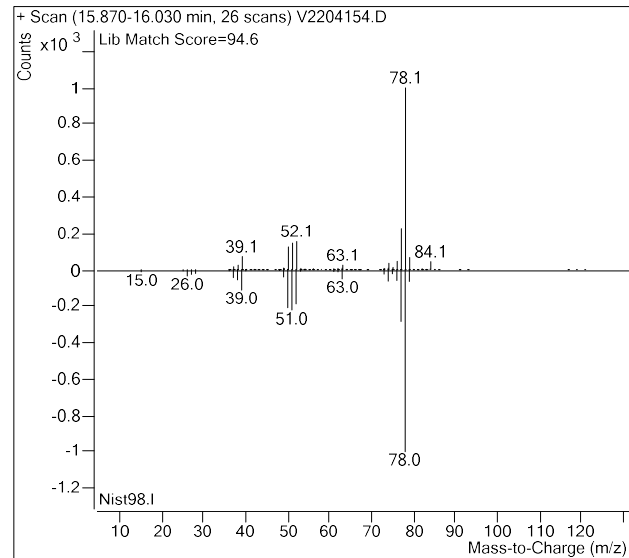
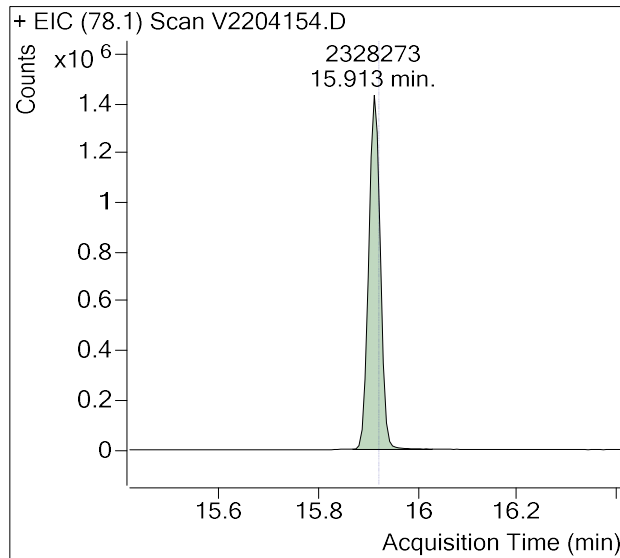
**(m)=Manual Integration**

**1,3-Butadiene**

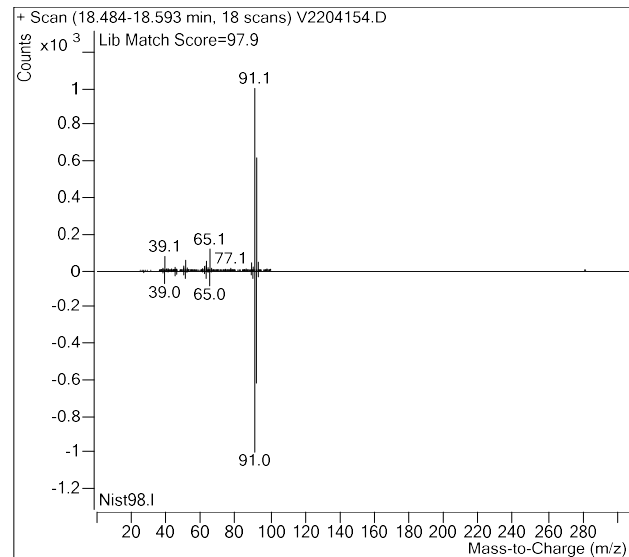
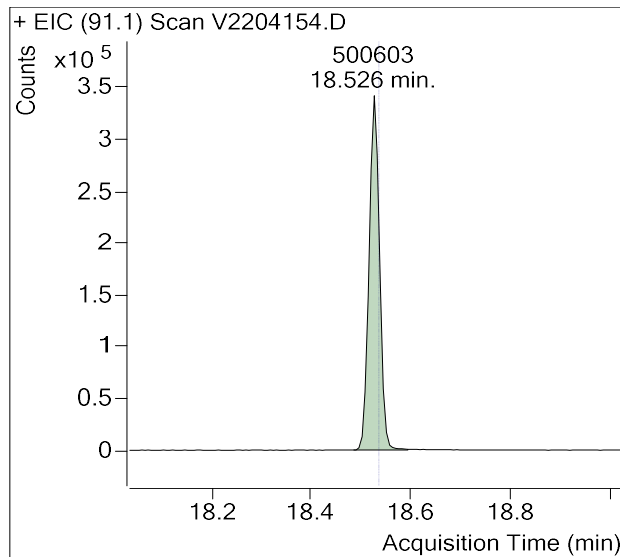


Sample Name : USSCL-PT10-D-20230117  
Sample Info : B47074  
Data File : V2204154.D  
Acquisition Date : 2023-02-03 02:10:28  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene



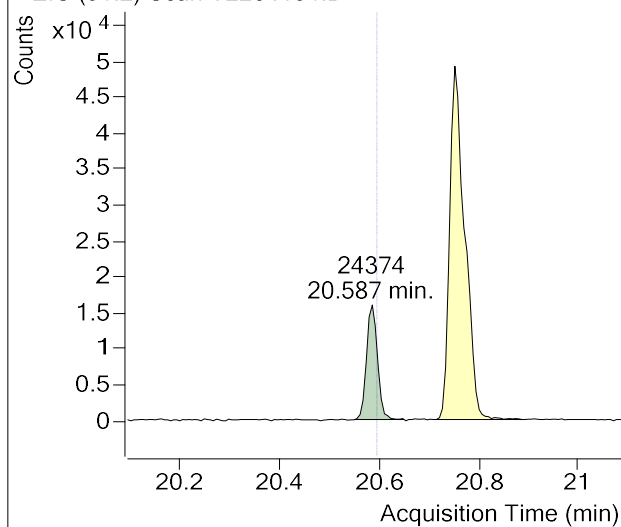
## Toluene



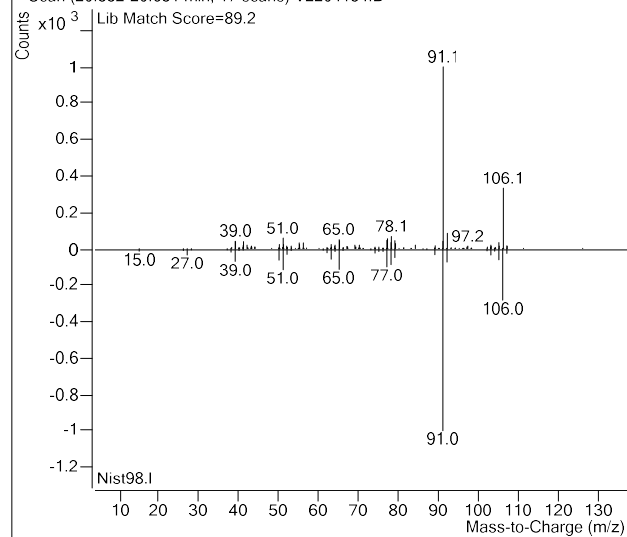
Sample Name : USSCL-PT10-D-20230117  
Sample Info : B47074  
Data File : V2204154.D  
Acquisition Date : 2023-02-03 02:10:28  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

+ EIC (91.2) Scan V2204154.D

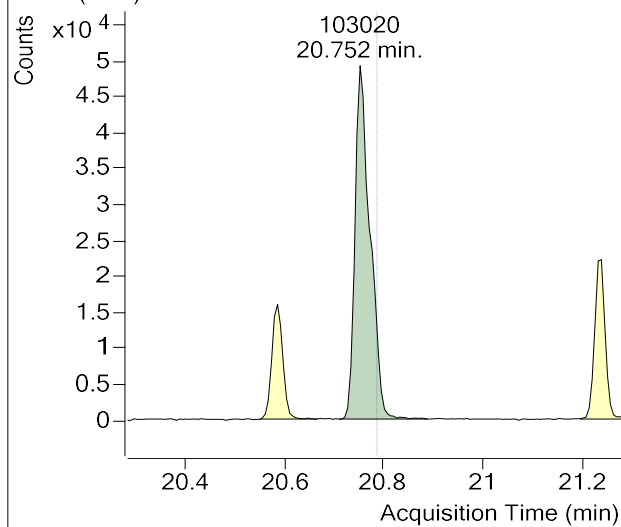


+ Scan (20.552-20.651 min, 17 scans) V2204154.D

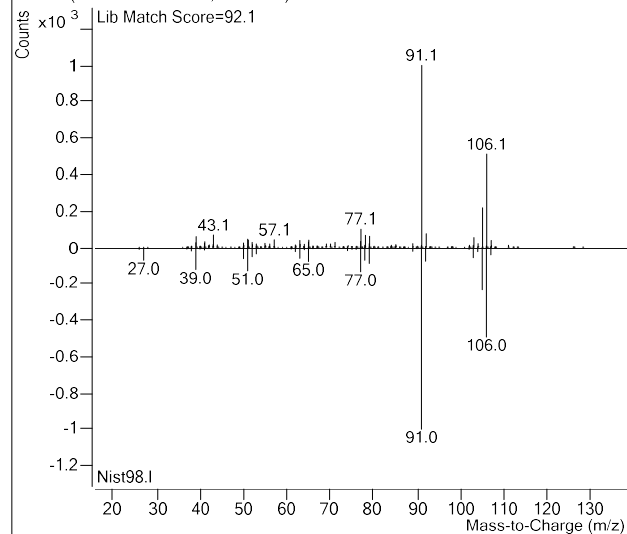


## m-/p-Xylenes

+ EIC (91.1) Scan V2204154.D

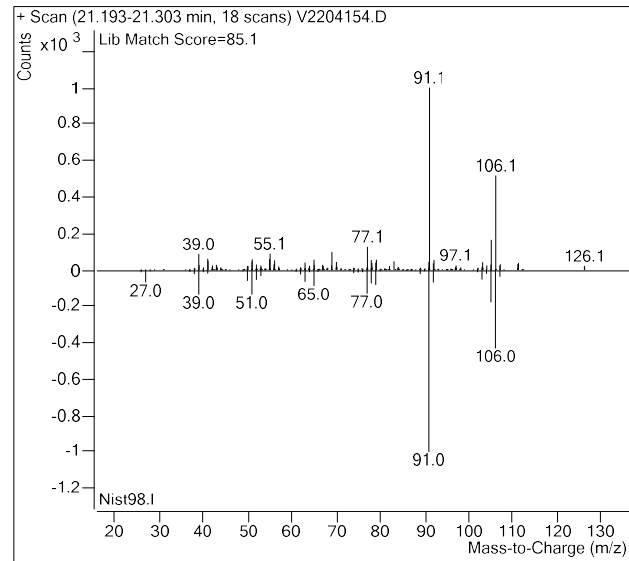
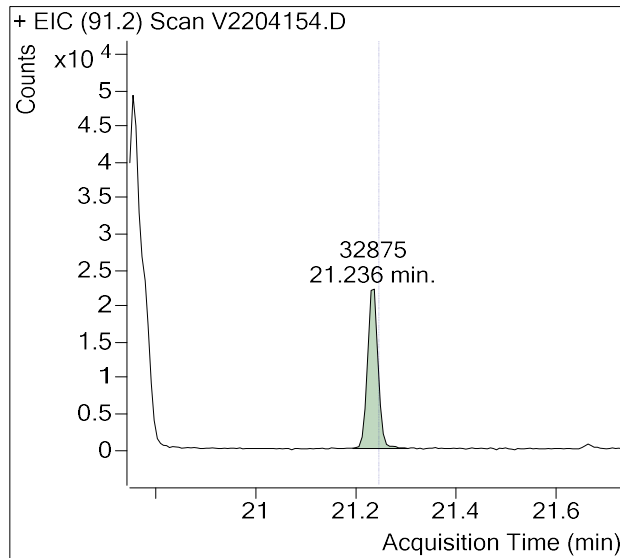


+ Scan (20.711-20.887 min, 29 scans) V2204154.D



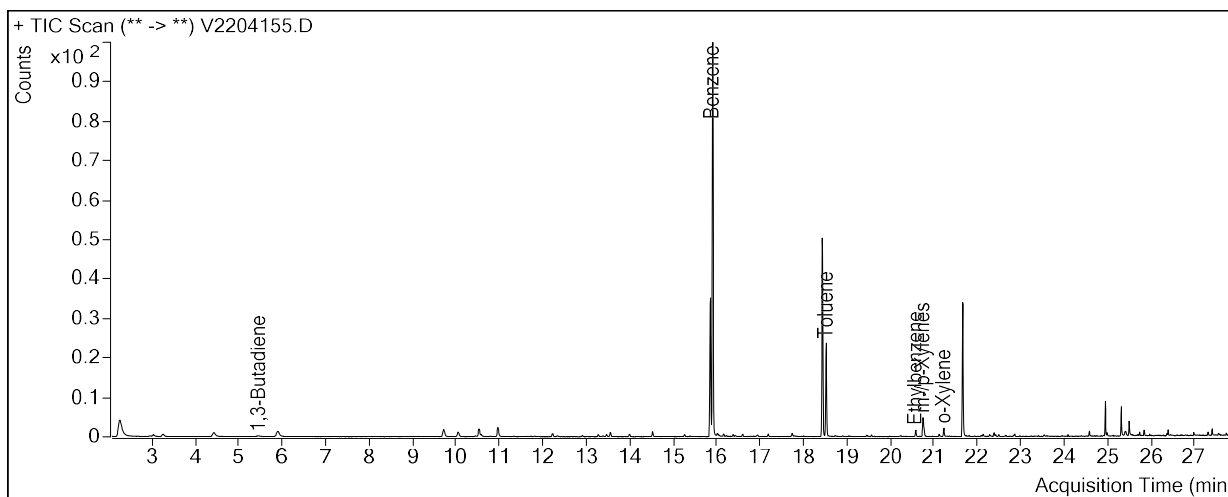
Sample Name : USSCL-PT10-D-20230117  
Sample Info : B47074  
Data File : V2204154.D  
Acquisition Date : 2023-02-03 02:10:28  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene





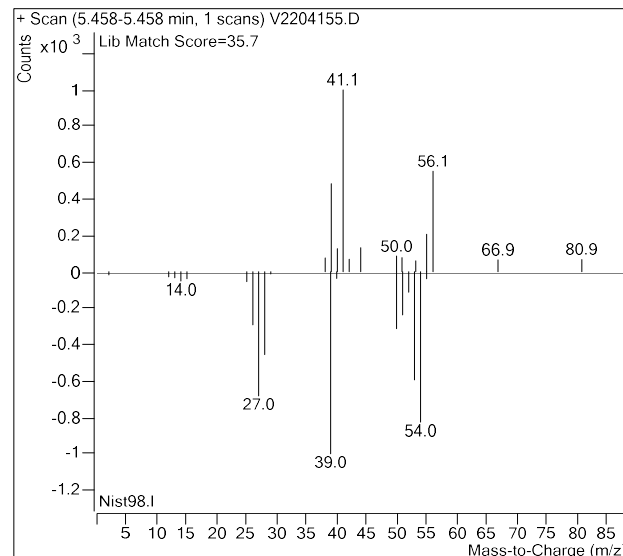
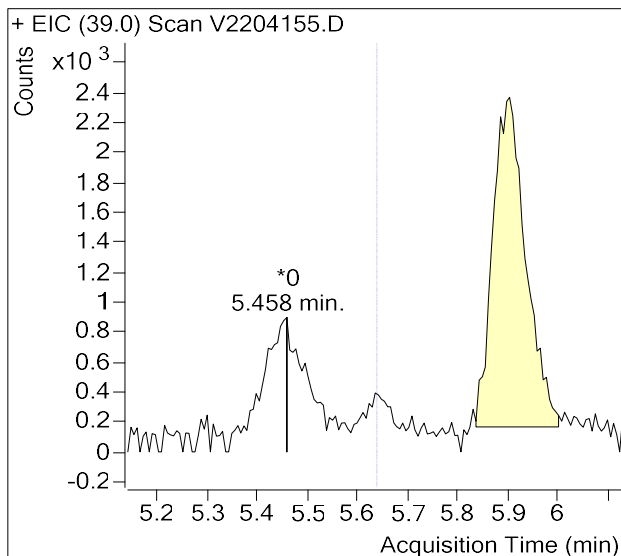
Sample Name : USSCL-PT11-S-20230117  
Sample Info : B31697  
Data File : V2204155.D  
Acquisition Date : 2023-02-03 02:52:25  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	0	m
Benzene-d6 (IS)	15.86	801,214	
Benzene	15.92	2,127,615	
Toluene-d8 (IS)	18.45	804,673	
Toluene	18.53	406,944	
Ethylbenzene	20.59	29,250	
m-/p-Xylenes	20.78	98,139	
o-Xylene	21.24	31,672	

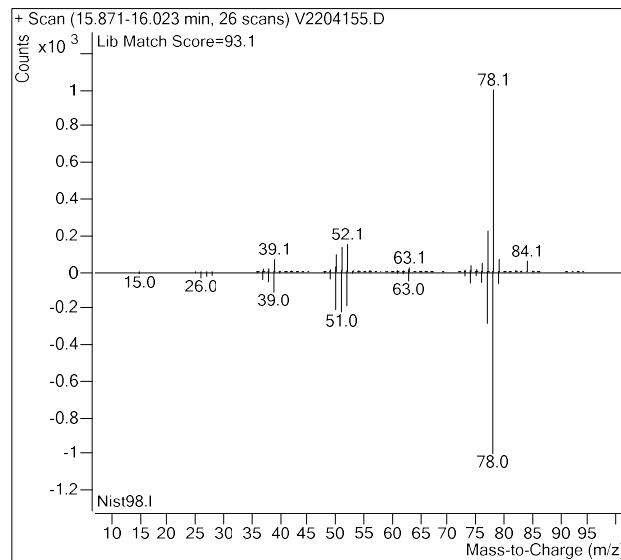
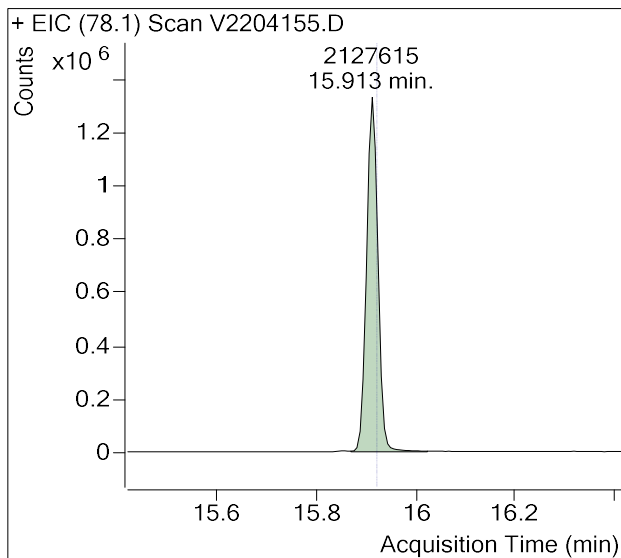
**(m)=Manual Integration**

**1,3-Butadiene**

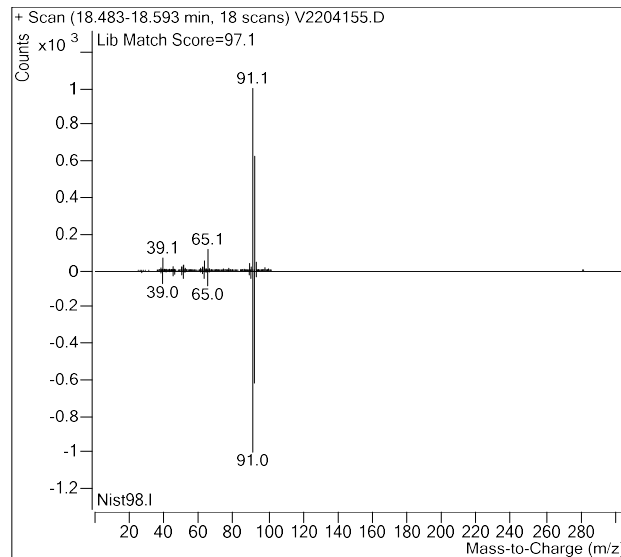
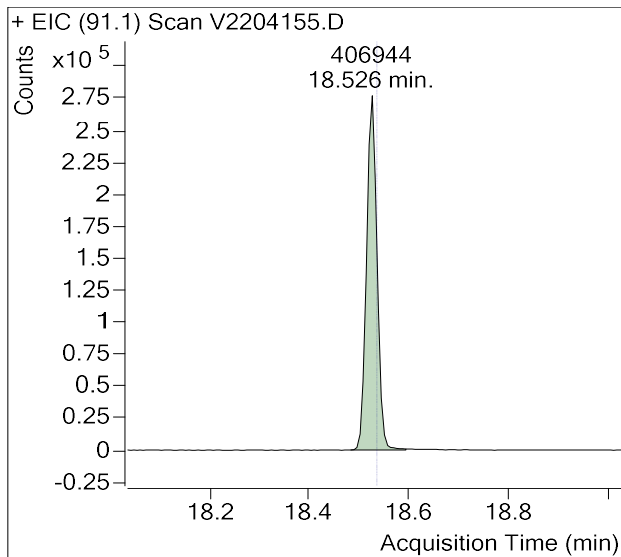


Sample Name : USSCL-PT11-S-20230117  
Sample Info : B31697  
Data File : V2204155.D  
Acquisition Date : 2023-02-03 02:52:25  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene



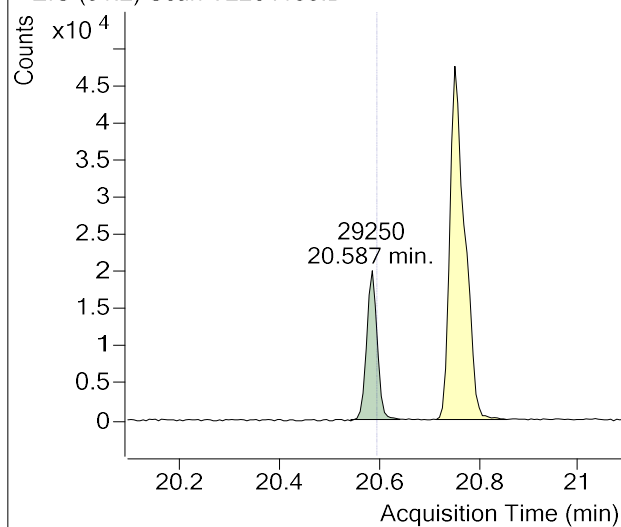
## Toluene



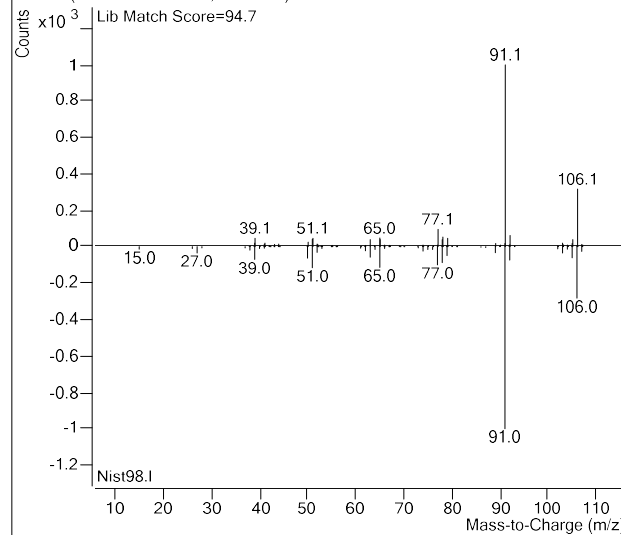
Sample Name : USSCL-PT11-S-20230117  
Sample Info : B31697  
Data File : V2204155.D  
Acquisition Date : 2023-02-03 02:52:25  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

+ EIC (91.2) Scan V2204155.D

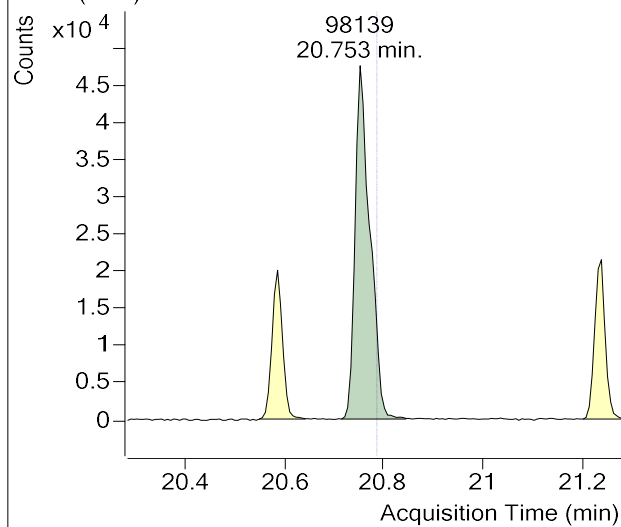


+ Scan (20.545-20.642 min, 16 scans) V2204155.D

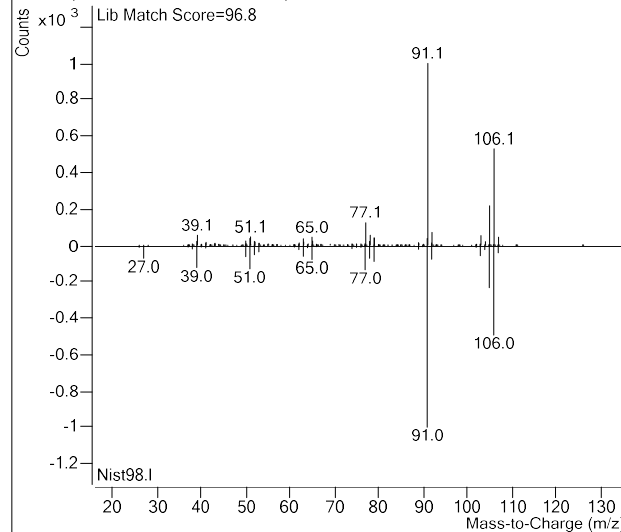


## m-/p-Xylenes

+ EIC (91.1) Scan V2204155.D

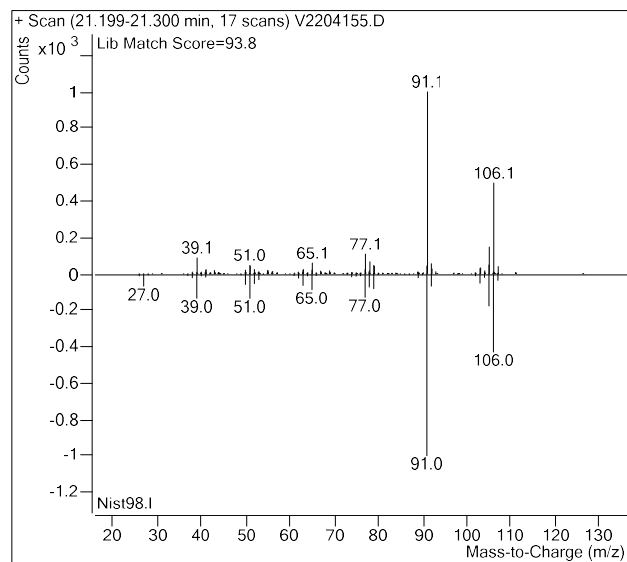
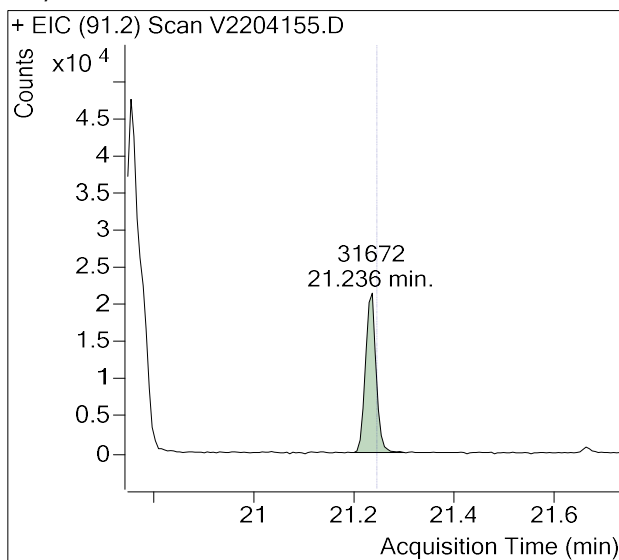


+ Scan (20.716-20.844 min, 21 scans) V2204155.D

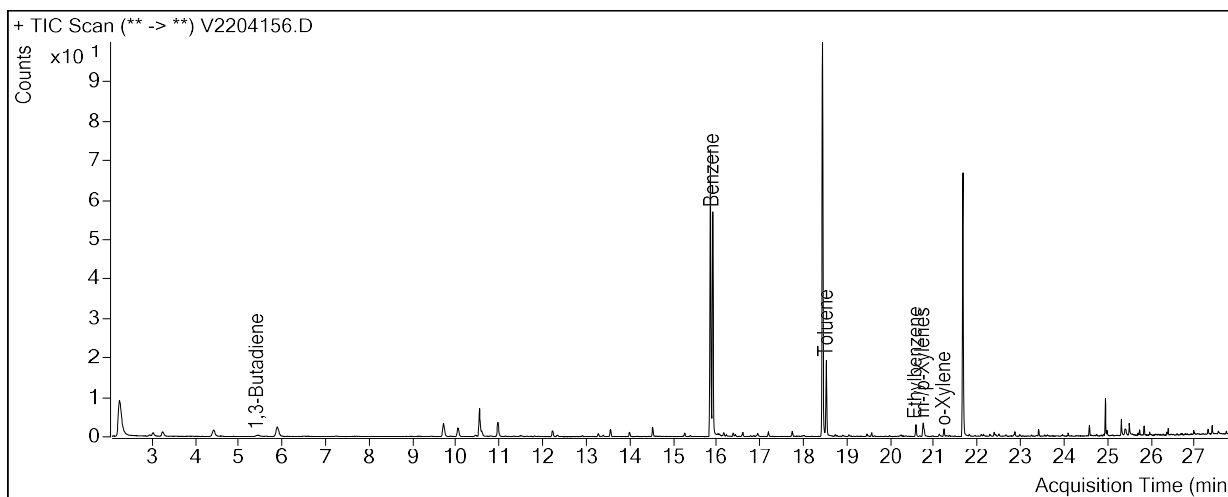


Sample Name : USSCL-PT11-S-20230117  
Sample Info : B31697  
Data File : V2204155.D  
Acquisition Date : 2023-02-03 02:52:25  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene



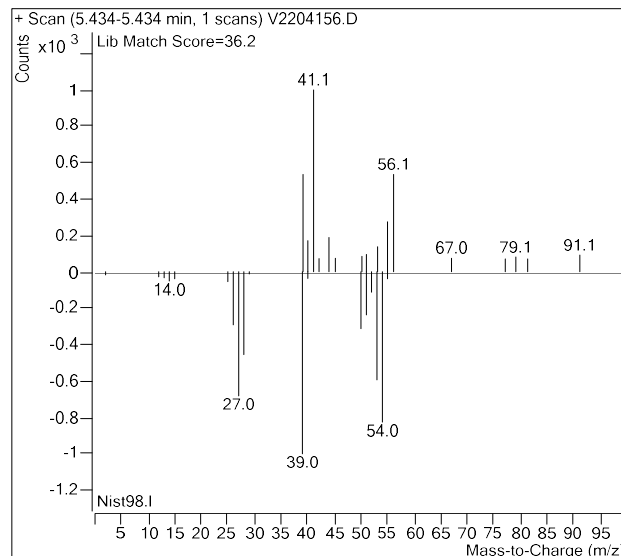
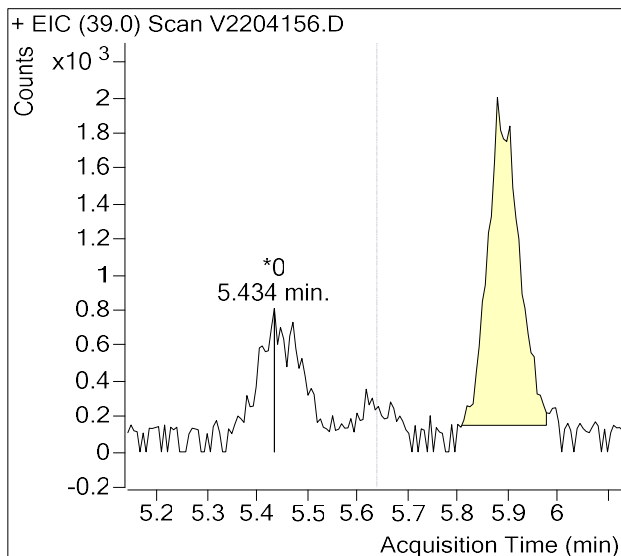
Sample Name : USSCL-PT12-S-20230117  
Sample Info : B27784  
Data File : V2204156.D  
Acquisition Date : 2023-02-03 03:34:32  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.64	0	m
Benzene-d6 (IS)	15.86	751,610	
Benzene	15.92	566,966	
Toluene-d8 (IS)	18.45	777,274	
Toluene	18.53	159,445	
Ethylbenzene	20.59	26,334	
m-/p-Xylenes	20.78	34,719	
o-Xylene	21.24	12,757	

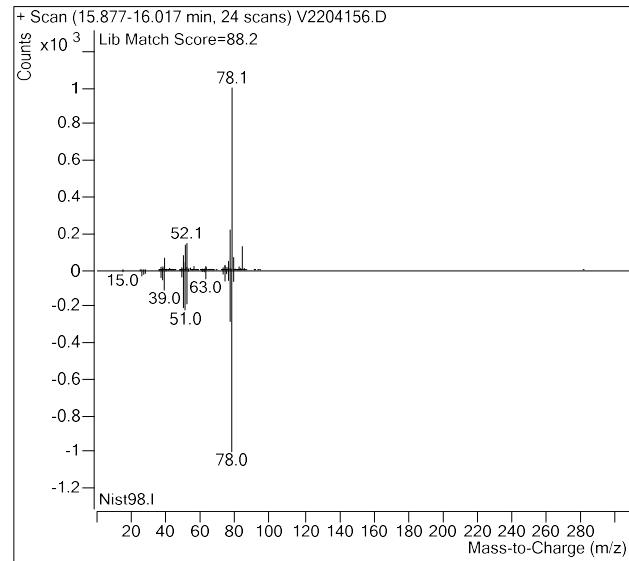
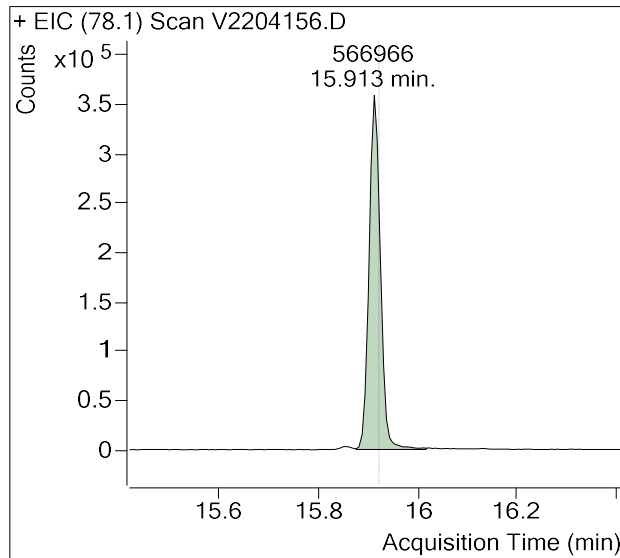
**(m)=Manual Integration**

**1,3-Butadiene**

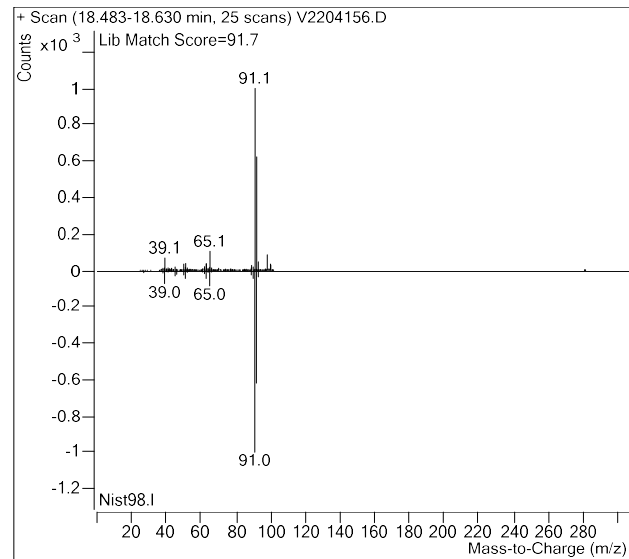
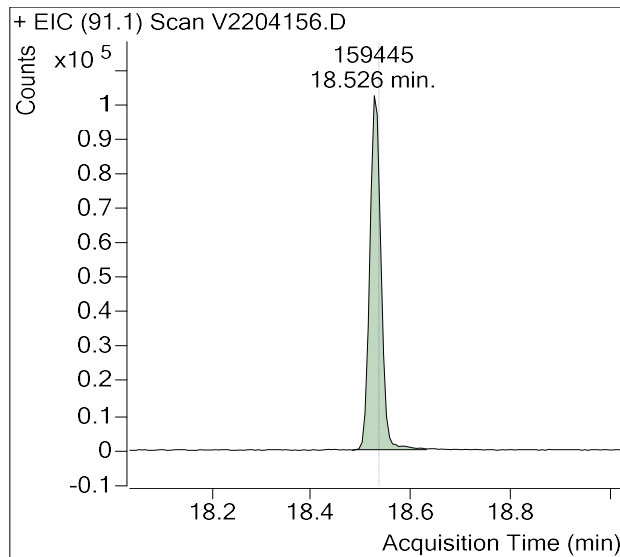


Sample Name : USSCL-PT12-S-20230117  
Sample Info : B27784  
Data File : V2204156.D  
Acquisition Date : 2023-02-03 03:34:32  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Benzene



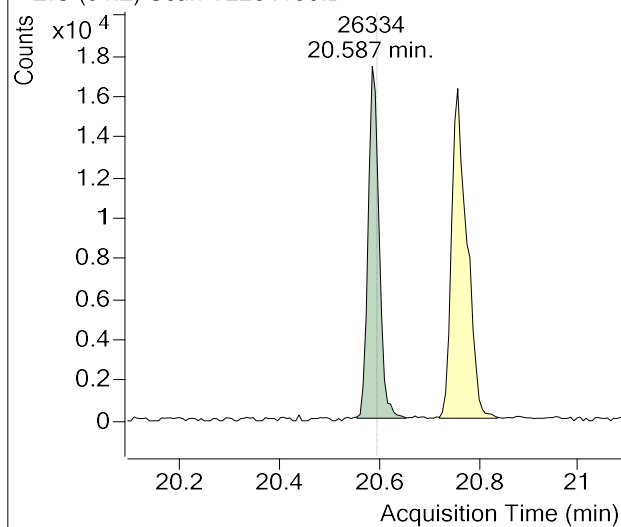
## Toluene



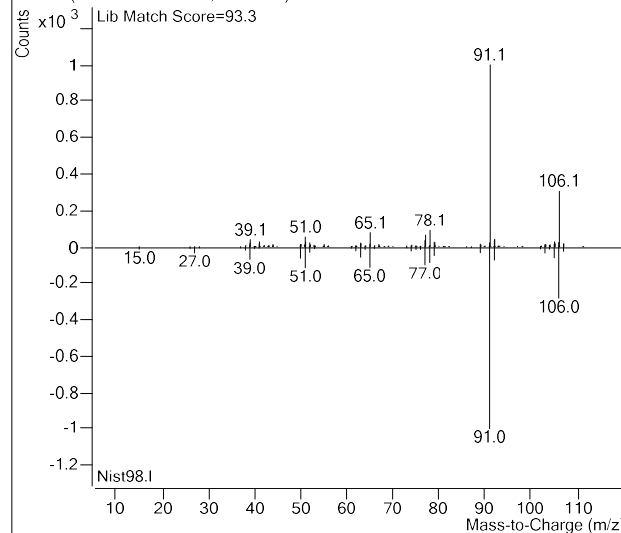
Sample Name : USSCL-PT12-S-20230117  
Sample Info : B27784  
Data File : V2204156.D  
Acquisition Date : 2023-02-03 03:34:32  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## Ethylbenzene

+ EIC (91.2) Scan V2204156.D

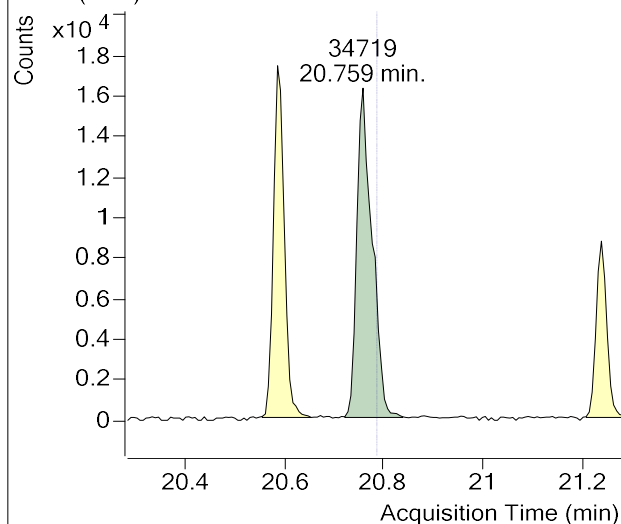


+ Scan (20.557-20.655 min, 16 scans) V2204156.D

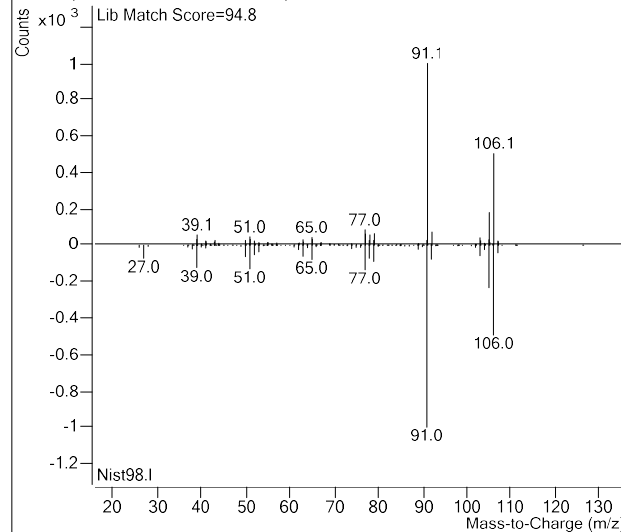


## m-/p-Xylenes

+ EIC (91.1) Scan V2204156.D

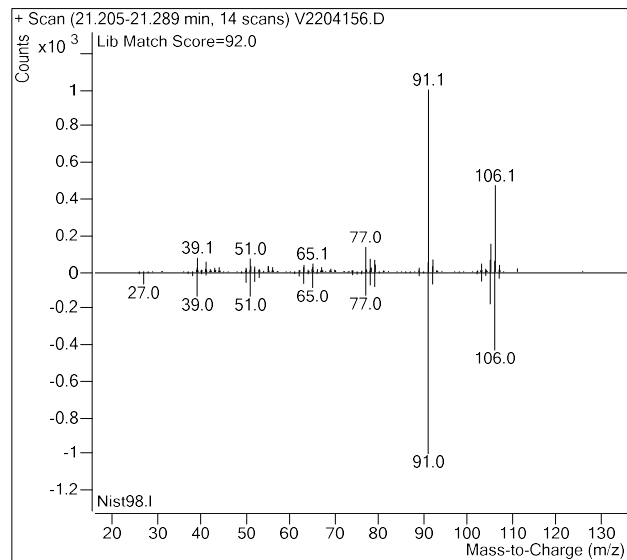
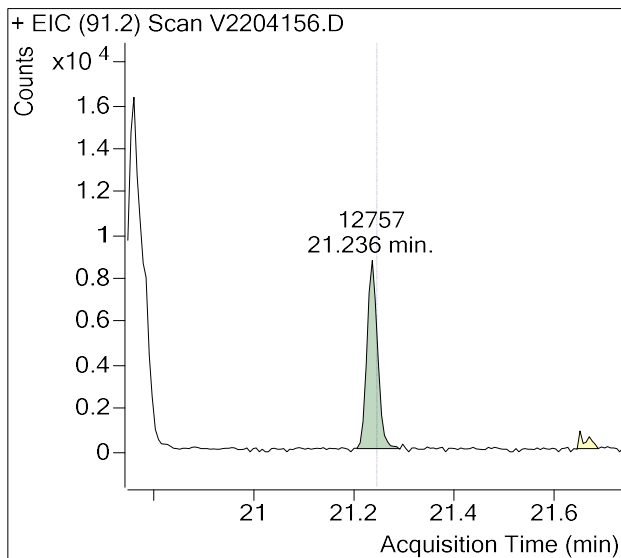


+ Scan (20.722-20.838 min, 19 scans) V2204156.D



Sample Name : USSCL-PT12-S-20230117  
Sample Info : B27784  
Data File : V2204156.D  
Acquisition Date : 2023-02-03 03:34:32  
Instrument Method : M325B-TD-CRYO9  
Matrix : AIR

## o-Xylene





# Calibration Summary Reports



## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE103-1 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	0.233	0.187	0.233	25%	12%		Pass	
2023EE103 Method Blank-1	Blank		0.187	0.233			0.45%	Pass	ND
M325B CCV 5	Check	0.221	0.187	0.233	19%		1.5%	Pass	
M325B CCV 5	Check	0.181	0.187	0.233	-3.2%		1.1%	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	1.111	1.054	1.111	5.3%	12%		Pass	
2023EE103 Method Blank-1	Blank		1.054	1.111			0.45%	Pass	ND
M325B CCV 5	Check	1.106	1.054	1.111	4.9%		1.5%	Pass	
M325B CCV 5	Check	1.104	1.054	1.111	4.7%		1.1%	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	1.503	1.731	1.503	-13%	2.2%		Pass	
2023EE103 Method Blank-1	Blank		1.731	1.503			-8.7%	Pass	ND
M325B CCV 5	Check	1.537	1.731	1.503	-11%		-1.7%	Pass	
M325B CCV 5	Check	1.479	1.731	1.503	-15%		1.1%	Pass	

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE103-1 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	1.162	1.310	1.162	-11%	2.2%		Pass	
2023EE103 Method Blank-1	Blank		1.310	1.162			-8.7%	Pass	ND
M325B CCV 5	Check	1.189	1.310	1.162	-9.2%		-1.7%	Pass	
M325B CCV 5	Check	1.139	1.310	1.162	-13%		1.1%	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	1.175	1.476	1.175	-20%	2.2%		Pass	
2023EE103 Method Blank-1	Blank		1.476	1.175			-8.7%	Pass	ND
M325B CCV 5	Check	1.198	1.476	1.175	-19%		-1.7%	Pass	
M325B CCV 5	Check	1.153	1.476	1.175	-22%		1.1%	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	1.323	1.341	1.323	-1.4%	2.2%		Pass	
2023EE103 Method Blank-1	Blank		1.341	1.323			-8.7%	Pass	ND
M325B CCV 5	Check	1.254	1.341	1.323	-6.5%		-1.7%	Pass	
M325B CCV 5	Check	1.318	1.341	1.323	-1.7%		1.1%	Pass	

## Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE103-1 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
V010423A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	1	V2203582.D	5.33	7764	92.4	731618	0.183	-1.8%
V010423A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	2	V2203583.D	10.66	15585	92.4	719073	0.187	0.24%
V010423A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	3	V2203584.D	21.31	30705	92.4	709285	0.187	0.11%
V010423A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	4	V2203585.D	42.62	53143	92.4	718633	0.160	-14%
V010423A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	5	V2203586.D	106.56	149214	92.4	718750	0.179	-4.0%
V010423A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	6	V2203587.D	213.12	343542	92.4	712897	0.208	11%
V010423A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	7	V2203588.D	639.36	1002403	92.4	711892	0.202	8.5%
						Avg:	717450	0.187	
						%RSD:	1.0%	8.5%	
V010423A_BUT_BTEX.quantmethod.xml	Benzene	1	V2203582.D	5.34	47399	92.4	731618	1.116	5.9%
V010423A_BUT_BTEX.quantmethod.xml	Benzene	2	V2203583.D	10.67	86487	92.4	719073	1.036	-1.7%
V010423A_BUT_BTEX.quantmethod.xml	Benzene	3	V2203584.D	21.35	168828	92.4	709285	1.025	-2.8%
V010423A_BUT_BTEX.quantmethod.xml	Benzene	4	V2203585.D	42.69	331745	92.4	718633	0.994	-5.7%
V010423A_BUT_BTEX.quantmethod.xml	Benzene	5	V2203586.D	106.73	838826	92.4	718750	1.005	-4.7%
V010423A_BUT_BTEX.quantmethod.xml	Benzene	6	V2203587.D	213.47	1831707	92.4	712897	1.107	5.0%
V010423A_BUT_BTEX.quantmethod.xml	Benzene	7	V2203588.D	640.40	5442105	92.4	711892	1.098	4.1%
						Avg:	717450	1.054	
						%RSD:	1.0%	4.8%	
V010423A_BUT_BTEX.quantmethod.xml	Ethylbenzene	1	V2203582.D	5.49	67871	109.3	794465	1.664	-3.9%
V010423A_BUT_BTEX.quantmethod.xml	Ethylbenzene	2	V2203583.D	10.97	162425	109.3	789377	2.004	16%
V010423A_BUT_BTEX.quantmethod.xml	Ethylbenzene	3	V2203584.D	21.94	316603	109.3	785741	1.962	13%
V010423A_BUT_BTEX.quantmethod.xml	Ethylbenzene	4	V2203585.D	43.89	626456	109.3	787694	1.937	12%
V010423A_BUT_BTEX.quantmethod.xml	Ethylbenzene	5	V2203586.D	109.71	1150358	109.3	795718	1.408	-19%
V010423A_BUT_BTEX.quantmethod.xml	Ethylbenzene	6	V2203587.D	219.43	2366859	109.3	779253	1.479	-15%
V010423A_BUT_BTEX.quantmethod.xml	Ethylbenzene	7	V2203588.D	658.29	7979722	109.3	778959	1.663	-3.9%
						Avg:	787315	1.731	
						%RSD:	0.84%	14%	

# Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE103-1 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
V010423A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	1	V2203582.D	5.52	53479	109.3	794465	1.303	-0.50%
V010423A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	2	V2203583.D	11.04	123690	109.3	789377	1.517	16%
V010423A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	3	V2203584.D	22.08	243950	109.3	785741	1.503	15%
V010423A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	4	V2203585.D	44.16	488742	109.3	787694	1.501	15%
V010423A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	5	V2203586.D	110.41	887701	109.3	795718	1.080	-18%
V010423A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	6	V2203587.D	220.81	1808104	109.3	779253	1.123	-14%
V010423A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	7	V2203588.D	662.44	5509118	109.3	778959	1.141	-13%
						Avg:	787315	1.310	
						%RSD:	0.84%	15%	
V010423A_BUT_BTEX.quantmethod.xml	o-Xylene	1	V2203582.D	5.55	58616	109.3	794465	1.420	-3.8%
V010423A_BUT_BTEX.quantmethod.xml	o-Xylene	2	V2203583.D	11.10	145370	109.3	789377	1.772	20%
V010423A_BUT_BTEX.quantmethod.xml	o-Xylene	3	V2203584.D	22.21	280767	109.3	785741	1.719	16%
V010423A_BUT_BTEX.quantmethod.xml	o-Xylene	4	V2203585.D	44.42	565063	109.3	787694	1.726	17%
V010423A_BUT_BTEX.quantmethod.xml	o-Xylene	5	V2203586.D	111.04	940928	109.3	795718	1.138	-23%
V010423A_BUT_BTEX.quantmethod.xml	o-Xylene	6	V2203587.D	222.09	1874162	109.3	779253	1.157	-22%
V010423A_BUT_BTEX.quantmethod.xml	o-Xylene	7	V2203588.D	666.27	6804008	109.3	778959	1.401	-5.1%
						Avg:	787315	1.476	
						%RSD:	0.84%	18%	
V010423A_BUT_BTEX.quantmethod.xml	Toluene	1	V2203582.D	5.54	63301	109.3	794465	1.536	15%
V010423A_BUT_BTEX.quantmethod.xml	Toluene	2	V2203583.D	11.08	113600	109.3	789377	1.387	3.5%
V010423A_BUT_BTEX.quantmethod.xml	Toluene	3	V2203584.D	22.17	217038	109.3	785741	1.332	-0.70%
V010423A_BUT_BTEX.quantmethod.xml	Toluene	4	V2203585.D	44.34	429512	109.3	787694	1.314	-2.0%
V010423A_BUT_BTEX.quantmethod.xml	Toluene	5	V2203586.D	110.84	961554	109.3	795718	1.165	-13%
V010423A_BUT_BTEX.quantmethod.xml	Toluene	6	V2203587.D	221.68	2032113	109.3	779253	1.257	-6.3%
V010423A_BUT_BTEX.quantmethod.xml	Toluene	7	V2203588.D	665.05	6760423	109.3	778959	1.395	4.0%
						Avg:	787315	1.341	
						%RSD:	0.84%	8.7%	
V010423A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	ICV	V2203611.D	106.10	158480	92.4	727760	0.189	1.2%
V010423A_BUT_BTEX.quantmethod.xml	Benzene	ICV	V2203611.D	100.79	815037	92.4	727760	1.022	-3.1%
V010423A_BUT_BTEX.quantmethod.xml	Ethylbenzene	ICV	V2203611.D	97.47	998208	109.3	788911	1.387	-20%
V010423A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	ICV	V2203611.D	97.63	766279	109.3	788911	1.063	-19%
V010423A_BUT_BTEX.quantmethod.xml	o-Xylene	ICV	V2203611.D	98.53	803597	109.3	788911	1.105	-25%
V010423A_BUT_BTEX.quantmethod.xml	Toluene	ICV	V2203611.D	100.66	882829	109.3	788911	1.188	-11%

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