

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU120621\  
 Data File : VU046120.D  
 Acq On : 06 Dec 2021 18:42  
 Operator : SY/MD  
 Sample : M4942-07DL 10X  
 Misc : 7.42g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BGKQ9DL

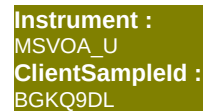
Quant Time: Dec 07 01:12:42 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 03 05:08:36 2021  
 Response via : Initial Calibration

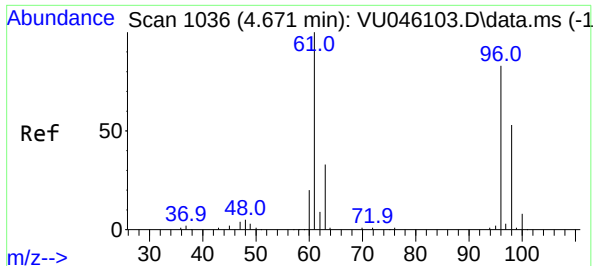
| Compound                      | R.T.    | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|-------|----------|
| -----                         |         |       |          |          |       |          |
| Internal Standards            |         |       |          |          |       |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 214456   | 50.000   | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 207147   | 50.000   | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 112506   | 50.000   | ug/L  | 0.00     |
|                               |         |       |          |          |       |          |
| System Monitoring Compounds   |         |       |          |          |       |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 66717    | 37.766   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =     | 75.540%  |
| 7) Chloroethane-d5            | 1.912   | 69    | 41806    | 30.822   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =     | 61.640%# |
| 11) 1,1-Dichloroethene-d2     | 2.568   | 63    | 98706    | 31.124   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =     | 62.240%  |
| 21) 2-Butanone-d5             | 4.633   | 46    | 115112   | 81.968   | ug/L  | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =     | 81.970%  |
| 24) Chloroform-d              | 5.067   | 84    | 125741   | 42.623   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =     | 85.240%  |
| 26) 1,2-Dichloroethane-d4     | 5.703   | 65    | 88827    | 44.866   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =     | 89.740%  |
| 32) Benzene-d6                | 5.729   | 84    | 286338   | 48.228   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =     | 96.460%  |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 88587    | 48.144   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =     | 96.280%  |
| 41) Toluene-d8                | 7.899   | 98    | 258300   | 47.782   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =     | 95.560%  |
| 43) trans-1,3-Dichloroprop... | 8.182   | 79    | 41770    | 47.025   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =     | 94.060%  |
| 47) 2-Hexanone-d5             | 8.636   | 63    | 88472    | 101.409  | ug/L  | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =     | 101.410% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 131166   | 47.005   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =     | 94.000%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 107877   | 49.789   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =     | 99.580%  |
|                               |         |       |          |          |       |          |
| Target Compounds              |         |       |          |          |       | Qvalue   |
| 20) cis-1,2-Dichloroethene    | 4.665   | 96    | 1708     | 1.003    | ug/L  | 100      |
| 25) Chloroform                | 5.089   | 83    | 14057    | 4.434    | ug/L  | 93       |
| 33) Benzene                   | 5.777   | 78    | 4523     | 0.721    | ug/L  | 100      |
| 42) Toluene                   | 7.970   | 91    | 31445    | 4.674    | ug/L  | 98       |
| 52) Ethylbenzene              | 9.571   | 91    | 146649   | 20.255   | ug/L  | 99       |
| 53) m,p-Xylene                | 9.693   | 106   | 173521   | 61.455   | ug/L  | 97       |
| 54) o-xylene                  | 10.102  | 106   | 45545    | 16.624   | ug/L  | 95       |
| 61) Isopropylbenzene          | 10.484  | 105   | 25691    | 3.510    | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.089  | 105   | 32057    | 5.254    | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.468  | 105   | 98252    | 16.095   | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 12.214  | 146   | 8302     | 2.371    | ug/L  | 100      |
| -----                         |         |       |          |          |       |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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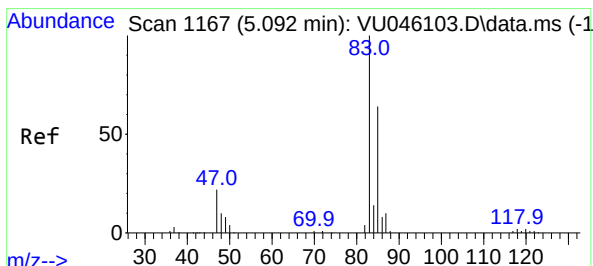
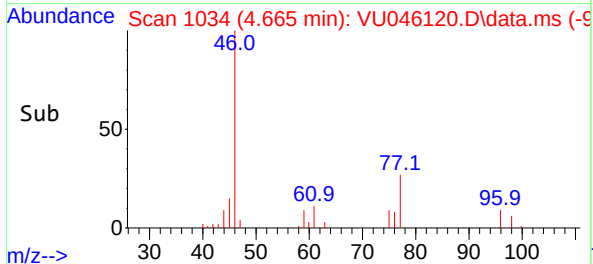
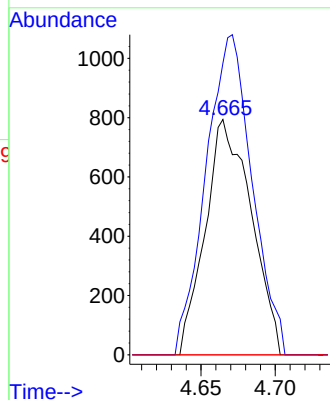
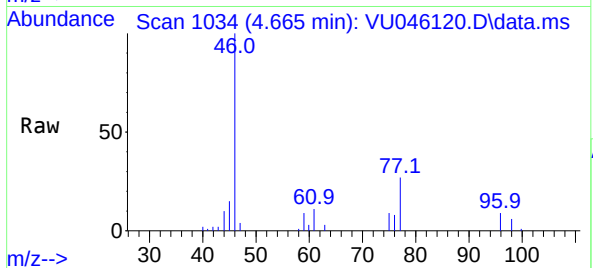




#20  
cis-1,2-Dichloroethene  
Concen: 1.003 ug/L  
RT: 4.665 min Scan# 1036  
Delta R.T. -0.006 min  
Lab File: VU046120.D  
Acq: 06 Dec 2021 18:42

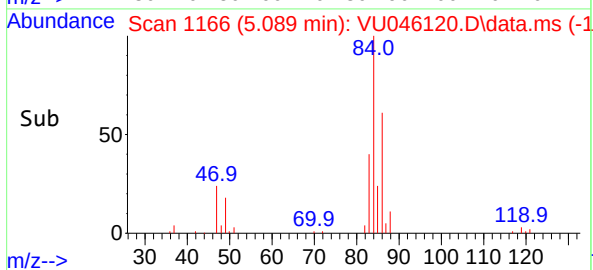
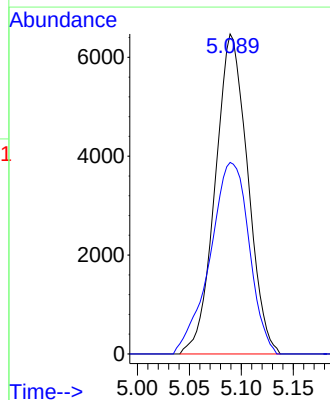
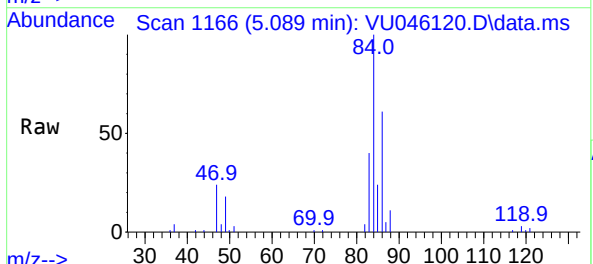
Instrument :  
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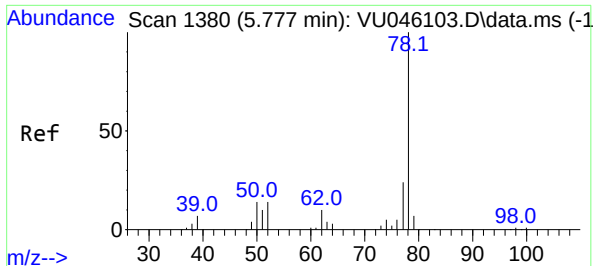
Tgt Ion: 96 Resp: 1708  
Ion Ratio Lower Upper  
96 100  
61 123.9 86.8 161.2  
68 0.0 0.0 0.0



#25  
Chloroform  
Concen: 4.434 ug/L  
RT: 5.089 min Scan# 1166  
Delta R.T. -0.003 min  
Lab File: VU046120.D  
Acq: 06 Dec 2021 18:42

Tgt Ion: 83 Resp: 14057  
Ion Ratio Lower Upper  
83 100  
85 59.9 45.8 85.2

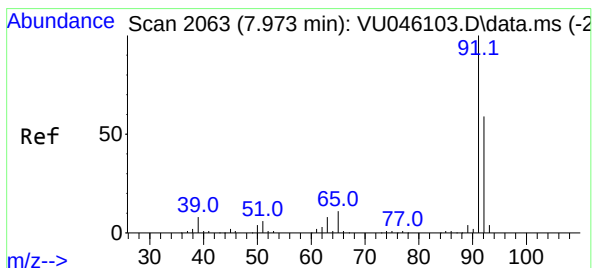
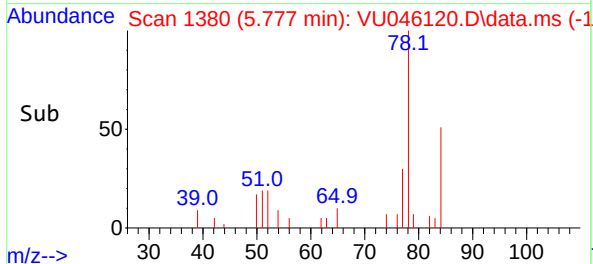
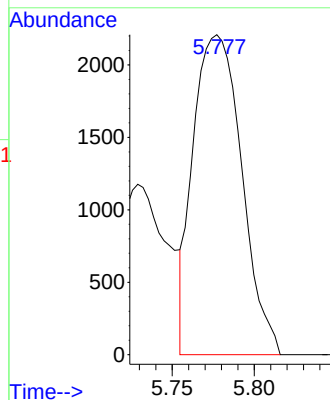
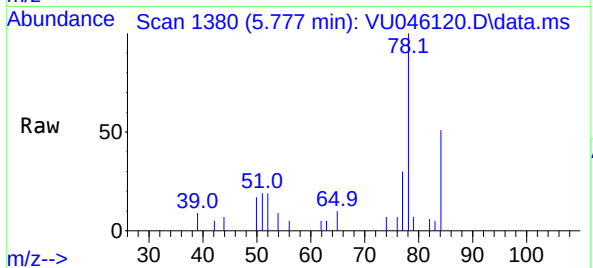




#33  
Benzene  
Concen: 0.721 ug/L  
RT: 5.777 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU046120.D  
Acq: 06 Dec 2021 18:42

Instrument :  
MSVOA\_U  
ClientSampleId :  
BGKQ9DL

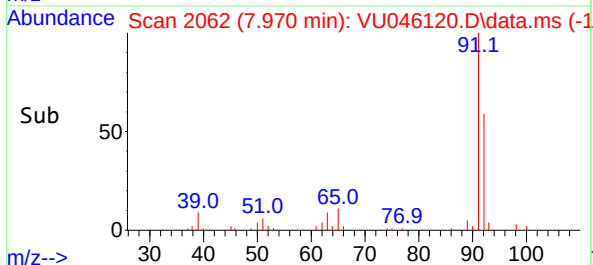
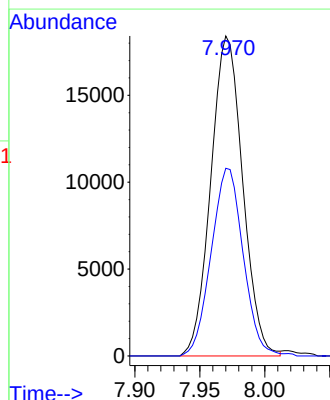
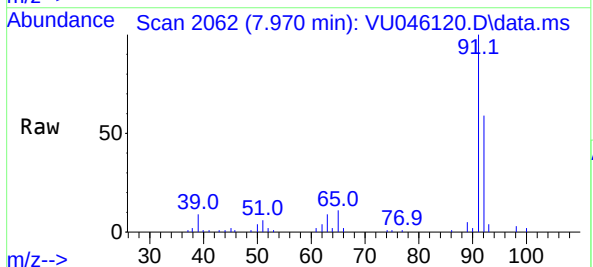
Tgt Ion: 78 Resp: 4523

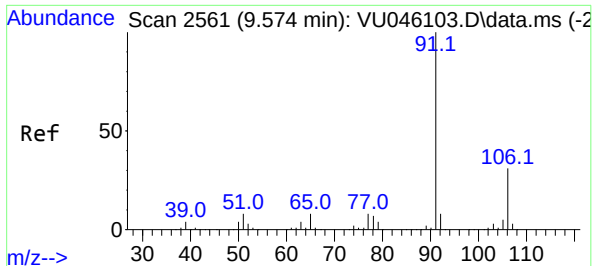


#42  
Toluene  
Concen: 4.674 ug/L  
RT: 7.970 min Scan# 2062  
Delta R.T. -0.003 min  
Lab File: VU046120.D  
Acq: 06 Dec 2021 18:42

Tgt Ion: 91 Resp: 31445

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 58.7  | 41.9  | 77.7  |





#52

Ethylbenzene

Concen: 20.255 ug/L

RT: 9.571 min Scan# 2561

Delta R.T. -0.003 min

Lab File: VU046120.D

Acq: 06 Dec 2021 18:42

Instrument :

MSVOA\_U

ClientSampleId :

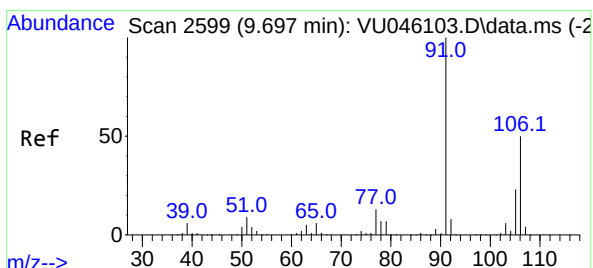
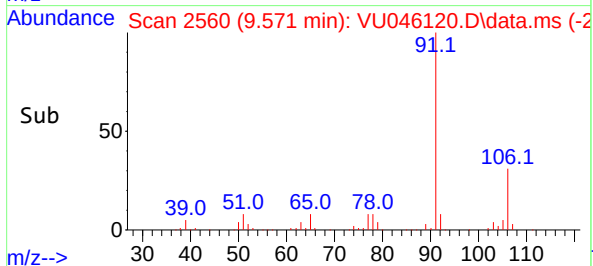
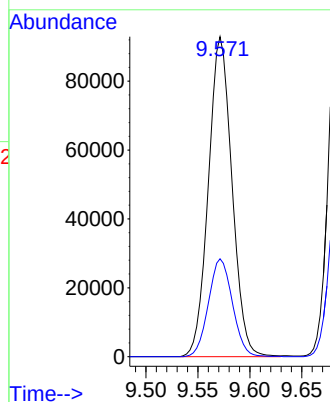
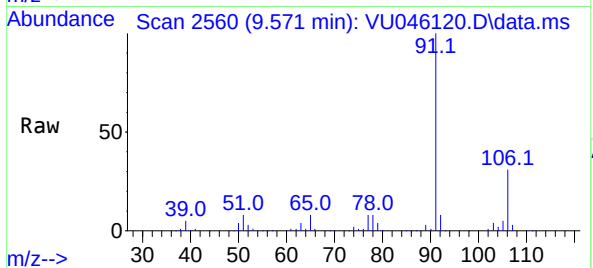
BGKQ9DL

Tgt Ion: 91 Resp: 146649

Ion Ratio Lower Upper

91 100

106 30.6 21.1 39.3



#53

m,p-Xylene

Concen: 61.455 ug/L

RT: 9.693 min Scan# 2598

Delta R.T. -0.003 min

Lab File: VU046120.D

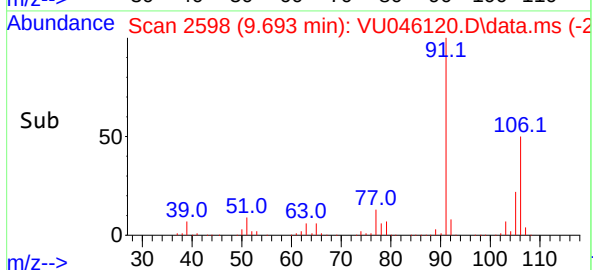
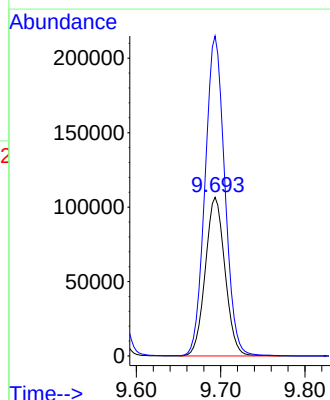
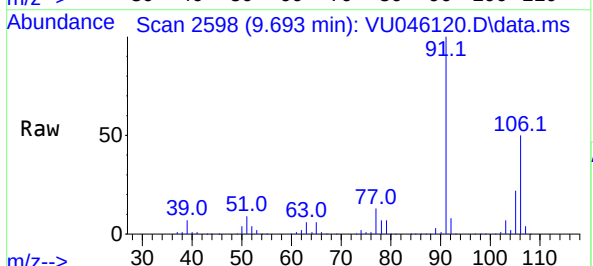
Acq: 06 Dec 2021 18:42

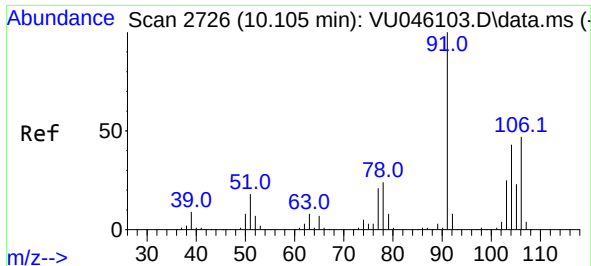
Tgt Ion:106 Resp: 173521

Ion Ratio Lower Upper

106 100

91 201.7 144.3 268.1

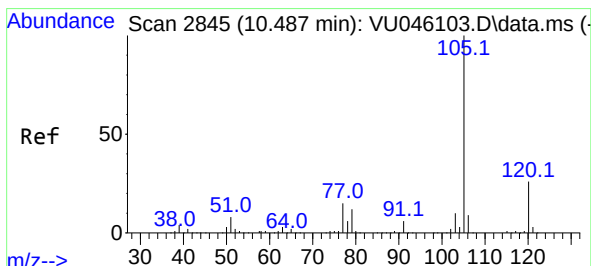
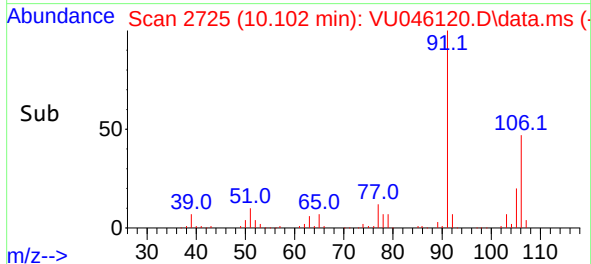
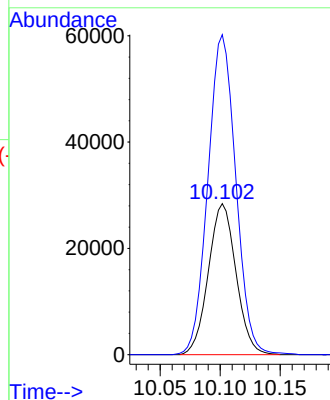
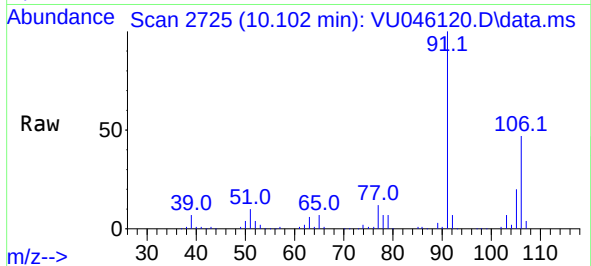




#54  
o-xylene  
Concen: 16.624 ug/L  
RT: 10.102 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU046120.D  
Acq: 06 Dec 2021 18:42

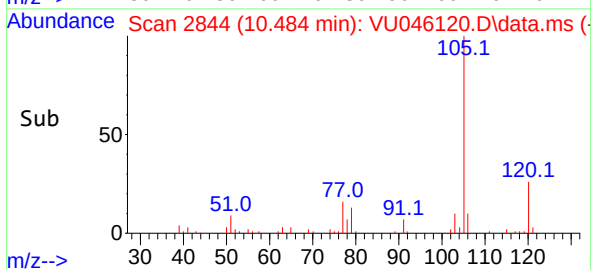
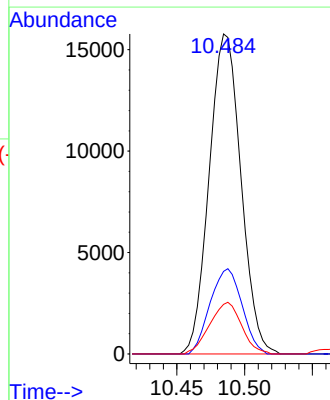
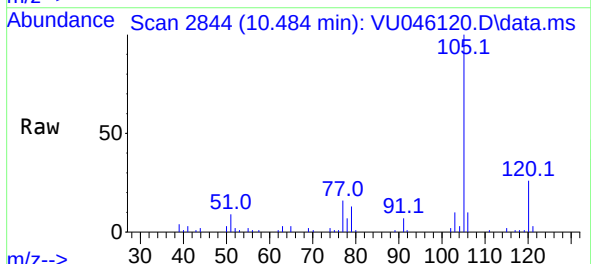
Instrument :  
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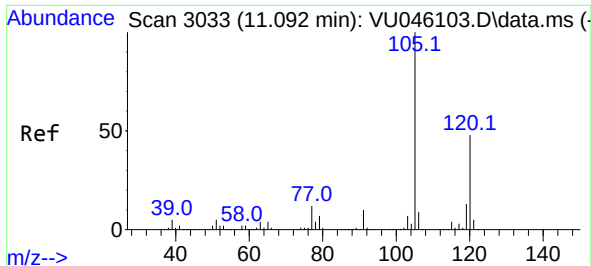
Tgt Ion:106 Resp: 45545  
Ion Ratio Lower Upper  
106 100  
91 211.8 154.2 286.4



#61  
Isopropylbenzene  
Concen: 3.510 ug/L  
RT: 10.484 min Scan# 2844  
Delta R.T. -0.003 min  
Lab File: VU046120.D  
Acq: 06 Dec 2021 18:42

Tgt Ion:105 Resp: 25691  
Ion Ratio Lower Upper  
105 100  
120 26.7 20.7 31.1  
77 16.2 12.2 18.4





#62

1,3,5-Trimethylbenzene

Concen: 5.254 ug/L

RT: 11.089 min Scan# 30

Delta R.T. -0.003 min

Lab File: VU046120.D

Acq: 06 Dec 2021 18:42

Instrument :

MSVOA\_U

ClientSampleId :

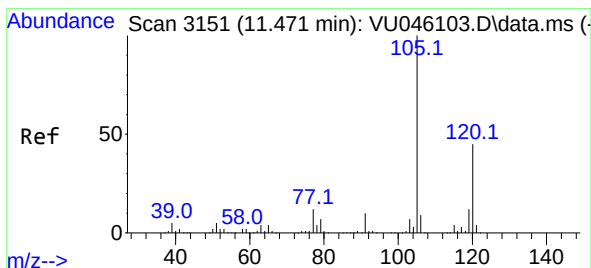
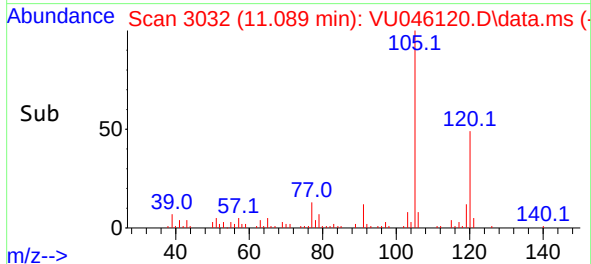
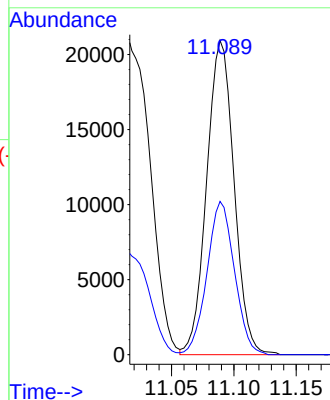
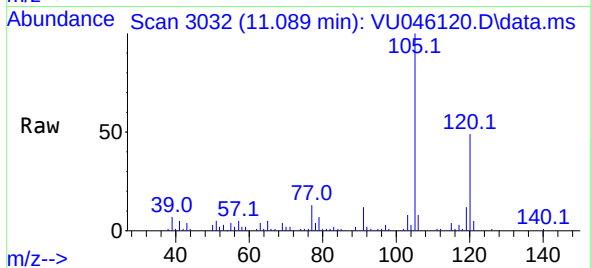
BGKQ9DL

Tgt Ion:105 Resp: 32057

Ion Ratio Lower Upper

105 100

120 48.9 37.8 56.6



#63

1,2,4-Trimethylbenzene

Concen: 16.095 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.003 min

Lab File: VU046120.D

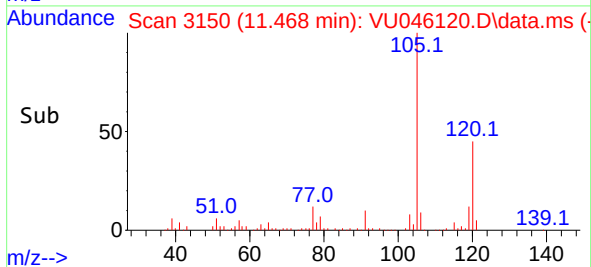
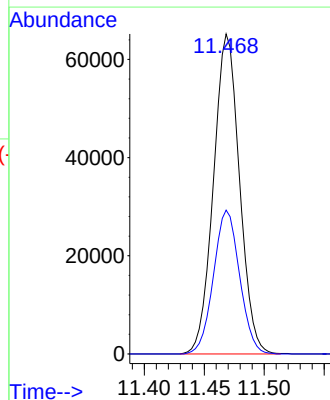
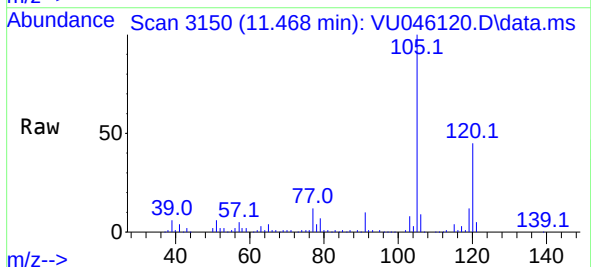
Acq: 06 Dec 2021 18:42

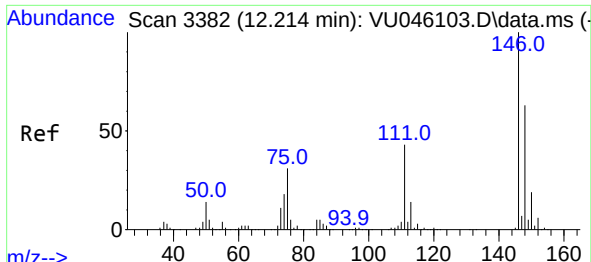
Tgt Ion:105 Resp: 98252

Ion Ratio Lower Upper

105 100

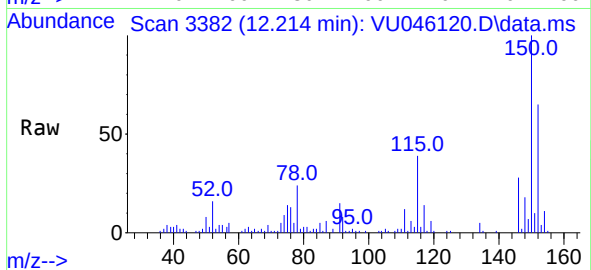
120 45.0 35.2 52.8





#67  
 1,2-Dichlorobenzene  
 Concen: 2.371 ug/L  
 RT: 12.214 min Scan# 31  
 Delta R.T. -0.000 min  
 Lab File: VU046120.D  
 Acq: 06 Dec 2021 18:42

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BGKQ9DL



Tgt Ion:146 Resp: 8302  
 Ion Ratio Lower Upper  
 146 100  
 111 44.6 35.7 53.5  
 148 63.4 51.2 76.8

