

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102121\  
 Data File : VN069097.D  
 Acq On : 21 Oct 2021 18:59  
 Operator : JC/MD  
 Sample : M4301-03  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 211020075-02-VOA

Quant Time: Oct 22 01:34:50 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 2021  
 Response via : Initial Calibration

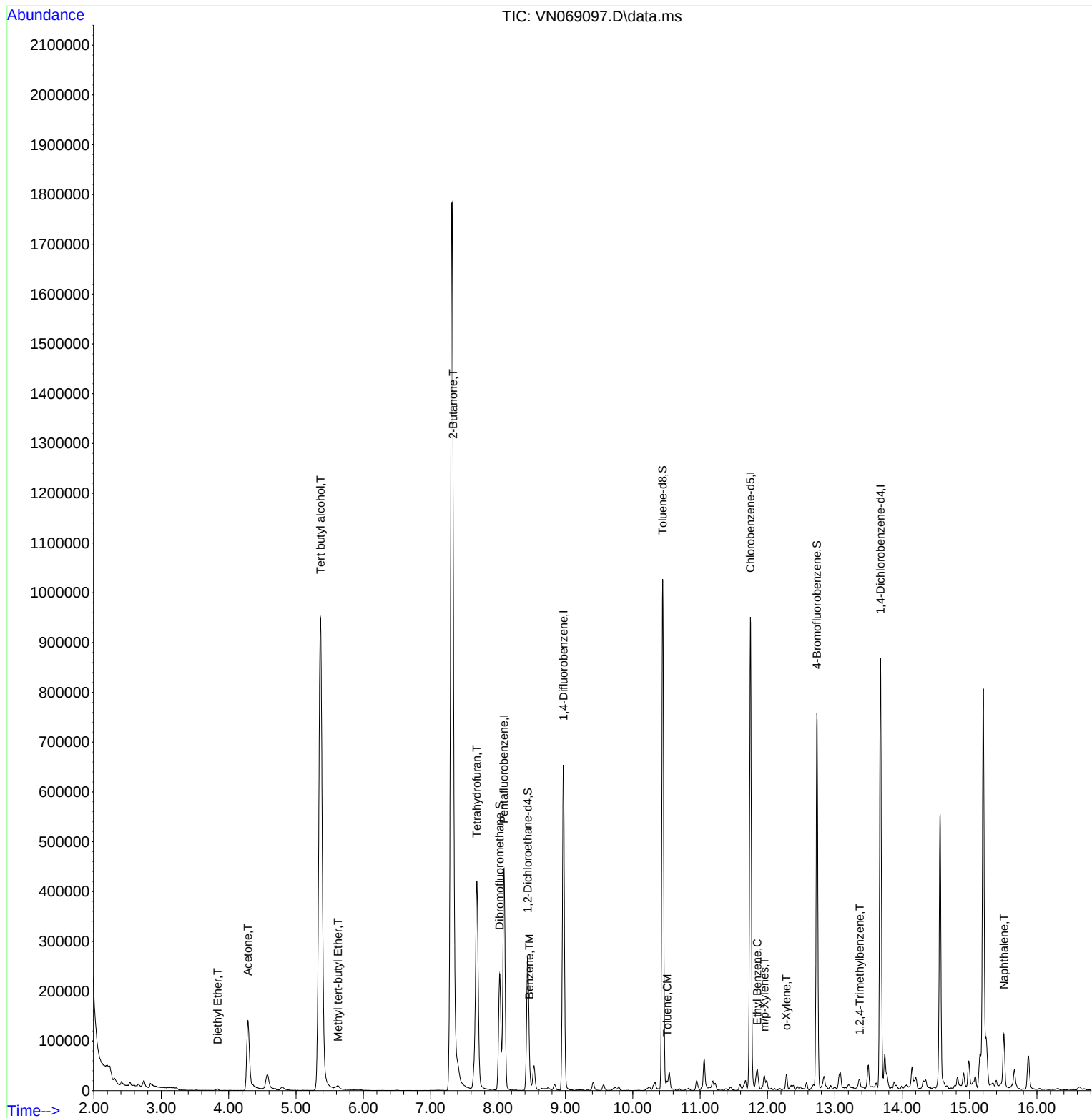
| Compound                    | R.T.           | QIon | Response            | Conc     | Units | Dev(Min) |
|-----------------------------|----------------|------|---------------------|----------|-------|----------|
| -----                       |                |      |                     |          |       |          |
| Internal Standards          |                |      |                     |          |       |          |
| 1) Pentafluorobenzene       | 8.088          | 168  | 337208              | 50.000   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.971          | 114  | 586440              | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5        | 11.746         | 117  | 553927              | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.677         | 152  | 227281              | 50.000   | ug/l  | 0.00     |
|                             |                |      |                     |          |       |          |
| System Monitoring Compounds |                |      |                     |          |       |          |
| 33) 1,2-Dichloroethane-d4   | 8.440          | 65   | 222719              | 50.095   | ug/l  | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery = 100.180% |          |       |          |
| 35) Dibromofluoromethane    | 8.024          | 113  | 172805              | 50.647   | ug/l  | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery = 101.300% |          |       |          |
| 50) Toluene-d8              | 10.443         | 98   | 729757              | 53.455   | ug/l  | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery = 106.900% |          |       |          |
| 62) 4-Bromofluorobenzene    | 12.733         | 95   | 270208              | 52.461   | ug/l  | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery = 104.920% |          |       |          |
|                             |                |      |                     |          |       |          |
| Target Compounds            |                |      |                     |          |       | Qvalue   |
| 8) Diethyl Ether            | 3.835          | 74   | 1649                | 0.754    | ug/l  | 97       |
| 11) Tert butyl alcohol      | 5.363          | 59   | 1931135             | 2377.083 | ug/l  | 100      |
| 16) Acetone                 | 4.285          | 43   | 253006              | 152.491  | ug/l  | 98       |
| 19) Methyl tert-butyl Ether | 5.623          | 73   | 8819                | 0.727    | ug/l  | 98       |
| 25) 2-Butanone              | 7.332          | 43   | 508374              | 202.627  | ug/l  | 99       |
| 29) Tetrahydrofuran         | 7.683          | 42   | 325620              | 200.087  | ug/l  | 96       |
| 40) Benzene                 | 8.464          | 78   | 15798               | 1.036    | ug/l  | 97       |
| 52) Toluene                 | 10.510         | 92   | 4420                | 0.450    | ug/l  | 97       |
| 67) Ethyl Benzene           | 11.848         | 91   | 25148               | 1.292    | ug/l  | 95       |
| 68) m/p-Xylenes             | 11.956         | 106  | 9686                | 1.312    | ug/l  | 96       |
| 69) o-Xylene                | 12.280         | 106  | 6834                | 0.925    | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.369         | 105  | 7340                | 0.483    | ug/l  | 98       |
| 95) Naphthalene             | 15.509         | 128  | 99251               | 12.504   | ug/l  | 99       |
| -----                       |                |      |                     |          |       |          |

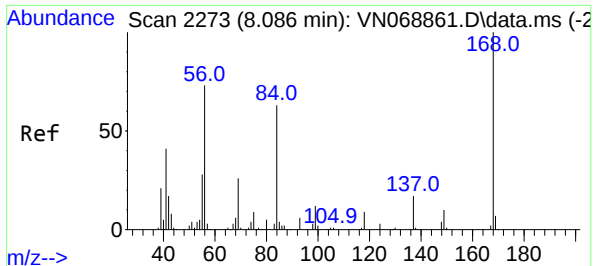
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102121\  
Data File : VN069097.D  
Acq On : 21 Oct 2021 18:59  
Operator : JC/MD  
Sample : M4301-03  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
211020075-02-VOA

Quant Time: Oct 22 01:34:50 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 13 05:44:40 2021  
Response via : Initial Calibration

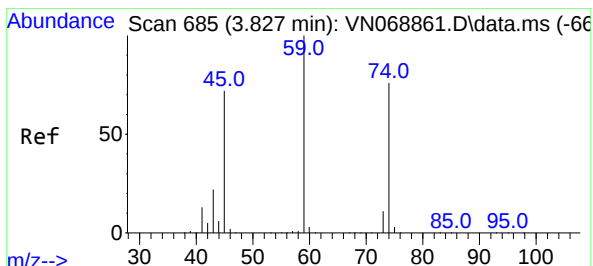
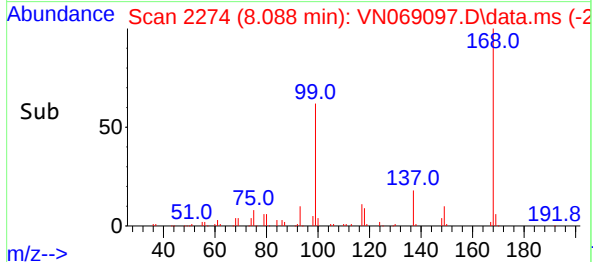
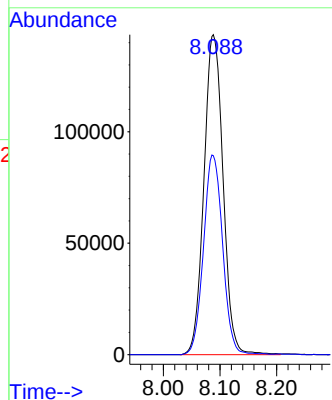
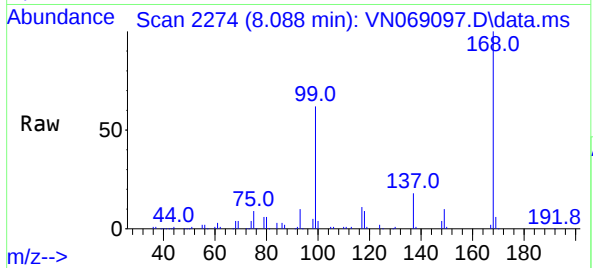




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. 0.002 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

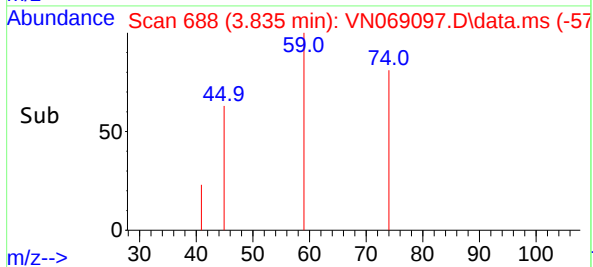
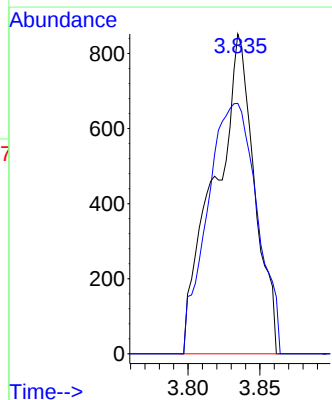
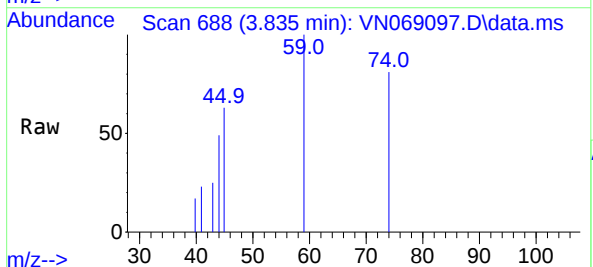
Instrument :  
MSVOA\_N  
ClientSampleId :  
211020075-02-VOA

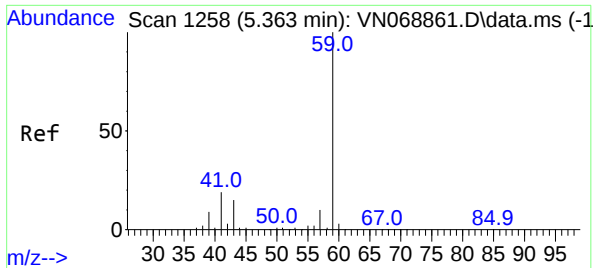
Tgt Ion:168 Resp: 337208  
Ion Ratio Lower Upper  
168 100  
99 62.2 48.9 73.3



#8  
Diethyl Ether  
Concen: 0.754 ug/l  
RT: 3.835 min Scan# 688  
Delta R.T. 0.008 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

Tgt Ion: 74 Resp: 1649  
Ion Ratio Lower Upper  
74 100  
45 97.2 47.0 141.2

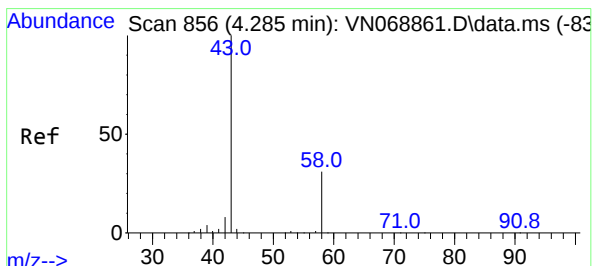
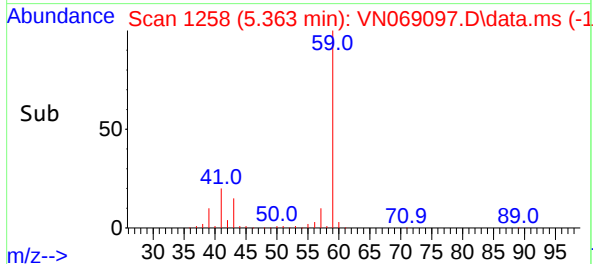
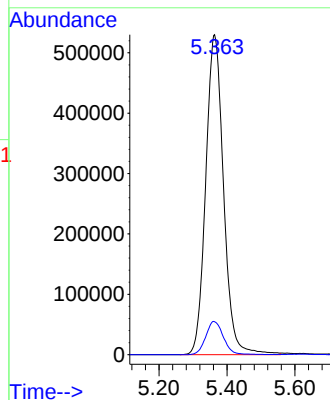
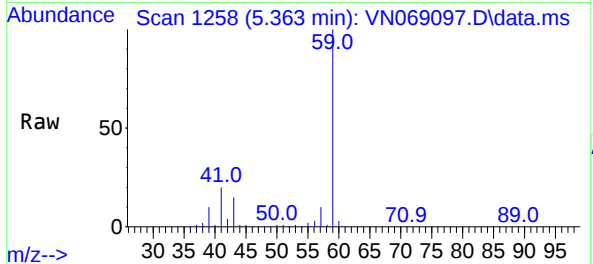




#11  
Tert butyl alcohol  
Concen: 2377.083 ug/l  
RT: 5.363 min Scan# 1258  
Delta R.T. -0.000 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

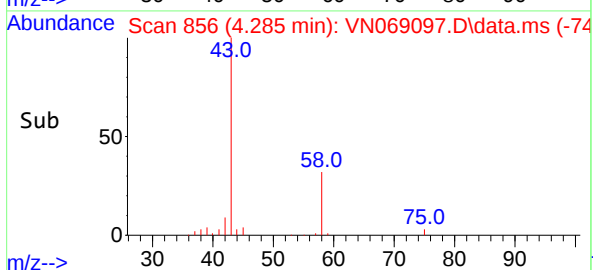
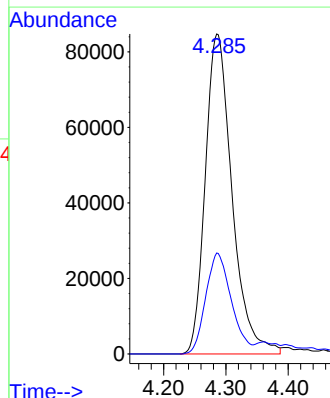
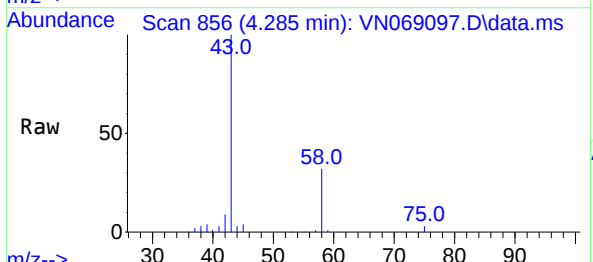
Instrument :  
MSVOA\_N  
ClientSampleId :  
211020075-02-VOA

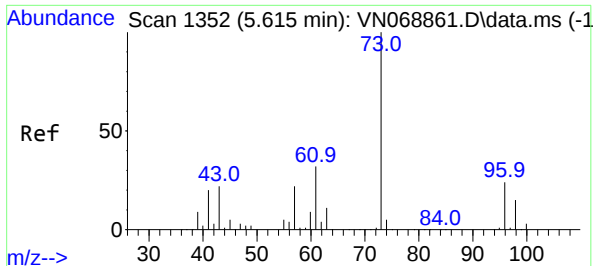
Tgt Ion: 59 Resp: 1931135  
Ion Ratio Lower Upper  
59 100  
57 10.3 8.3 12.5



#16  
Acetone  
Concen: 152.491 ug/l  
RT: 4.285 min Scan# 856  
Delta R.T. -0.000 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

Tgt Ion: 43 Resp: 253006  
Ion Ratio Lower Upper  
43 100  
58 31.6 24.5 36.7



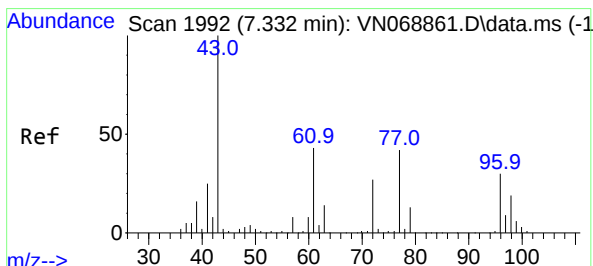
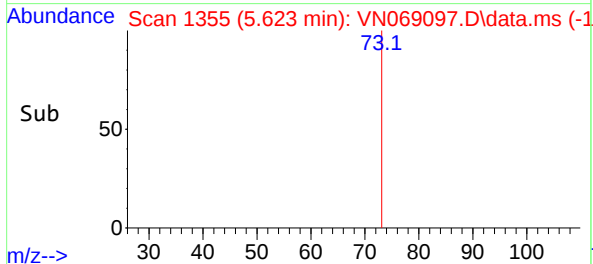
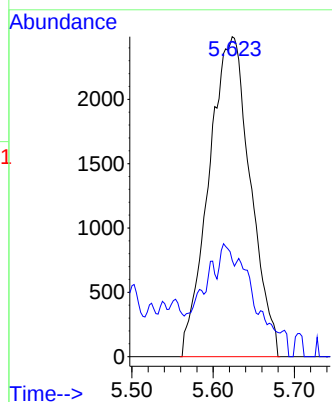
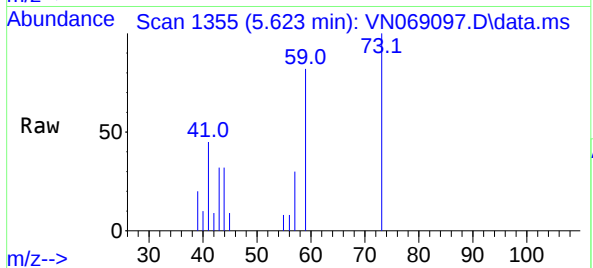


#19

Methyl tert-butyl Ether  
Concen: 0.727 ug/l  
RT: 5.623 min Scan# 1355  
Delta R.T. 0.008 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

Instrument :  
MSVOA\_N  
ClientSampleId :  
211020075-02-VOA

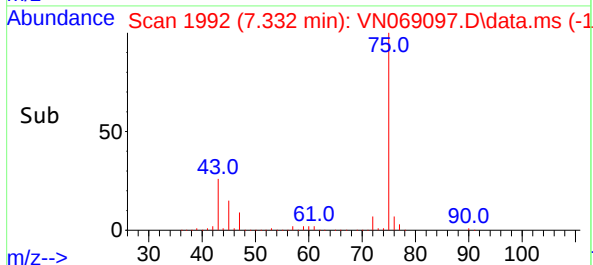
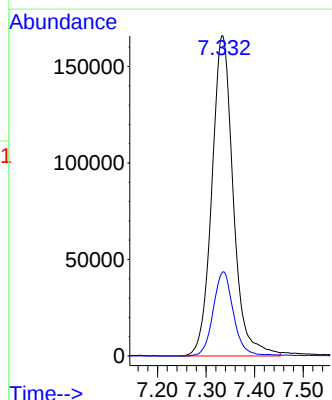
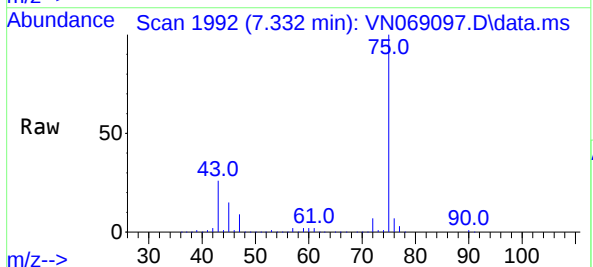
Tgt Ion: 73 Resp: 8819  
Ion Ratio Lower Upper  
73 100  
57 22.7 17.3 25.9

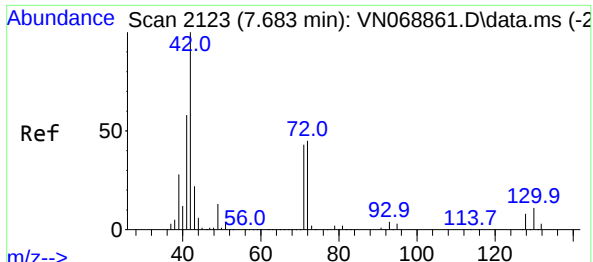


#25

2-Butanone  
Concen: 202.627 ug/l  
RT: 7.332 min Scan# 1992  
Delta R.T. -0.000 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

Tgt Ion: 43 Resp: 508374  
Ion Ratio Lower Upper  
43 100  
72 25.8 21.2 31.8



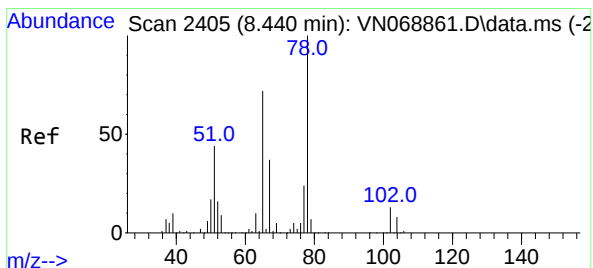
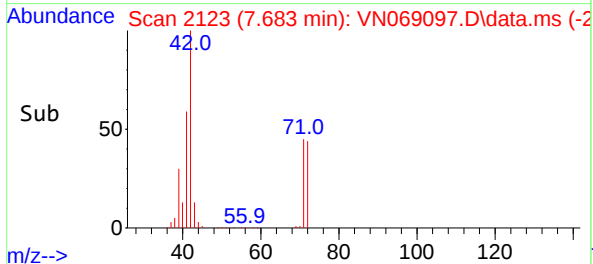
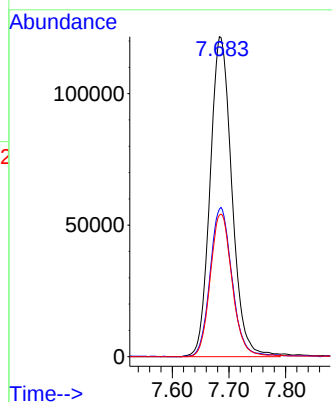
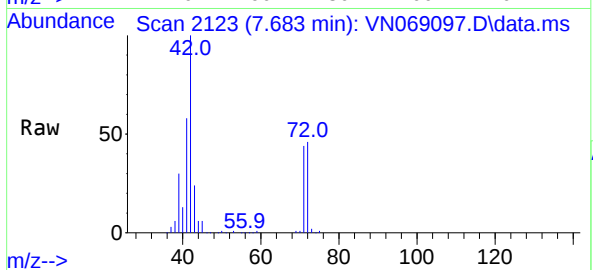


#29  
Tetrahydrofuran  
Concen: 200.087 ug/l  
RT: 7.683 min Scan# 2123  
Delta R.T. -0.000 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

Instrument :  
MSVOA\_N  
ClientSampleId :  
211020075-02-VOA

Tgt Ion: 42 Resp: 325620

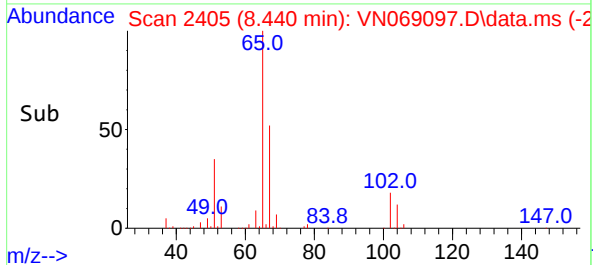
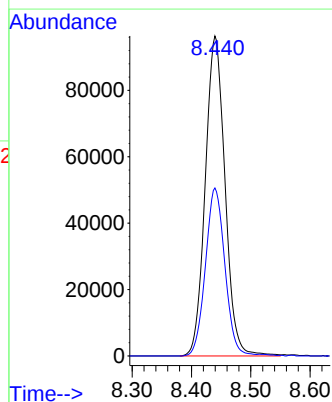
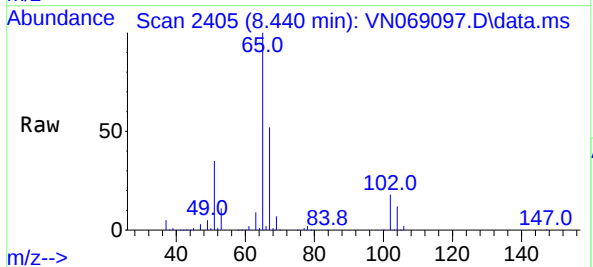
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 47.1  | 35.4  | 53.2  |
| 71  | 44.5  | 33.8  | 50.6  |

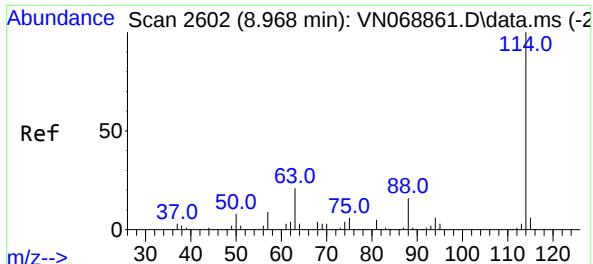


#33  
1,2-Dichloroethane-d4  
Concen: 50.095 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. -0.000 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

Tgt Ion: 65 Resp: 222719

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 51.6  | 0.0   | 103.8 |

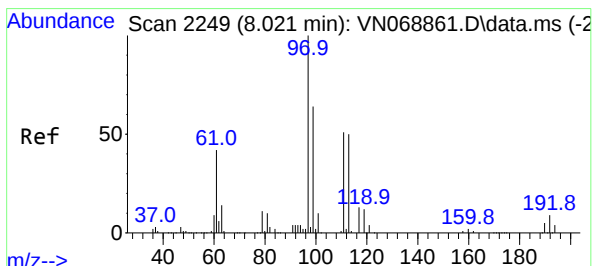
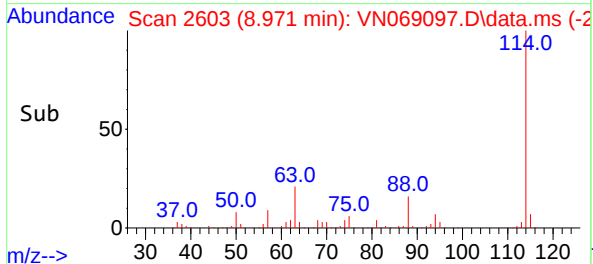
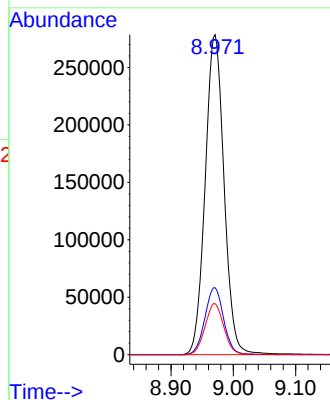
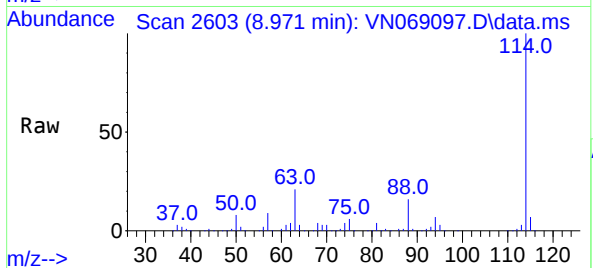




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

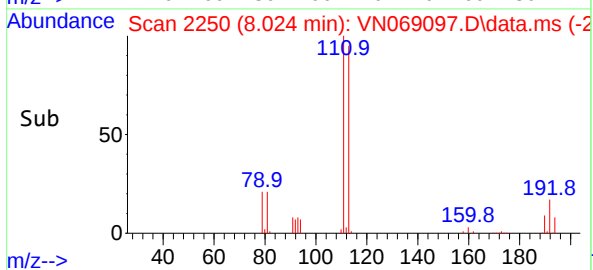
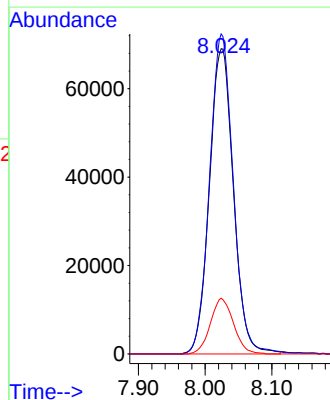
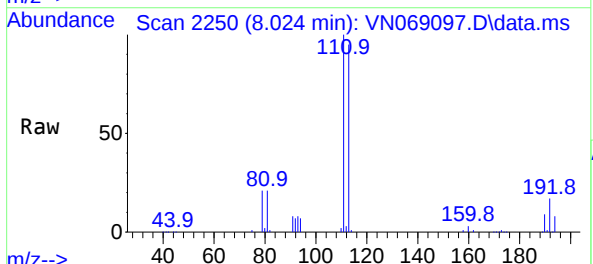
Instrument :  
MSVOA\_N  
ClientSampleId :  
211020075-02-VOA

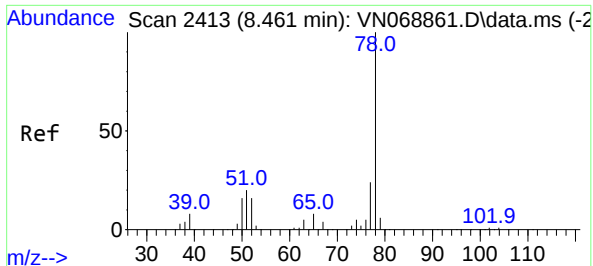
Tgt Ion:114 Resp: 586440  
Ion Ratio Lower Upper  
114 100  
63 21.0 0.0 42.6  
88 16.0 0.0 32.0



#35  
Dibromofluoromethane  
Concen: 50.647 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

Tgt Ion:113 Resp: 172805  
Ion Ratio Lower Upper  
113 100  
111 103.4 83.2 124.8  
192 17.5 15.0 22.4

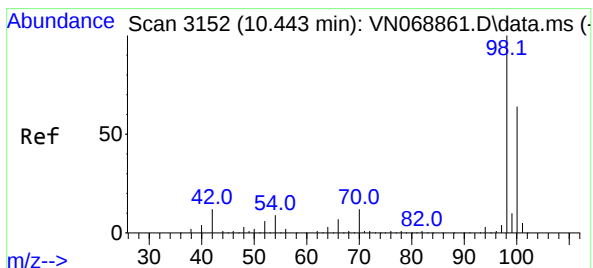
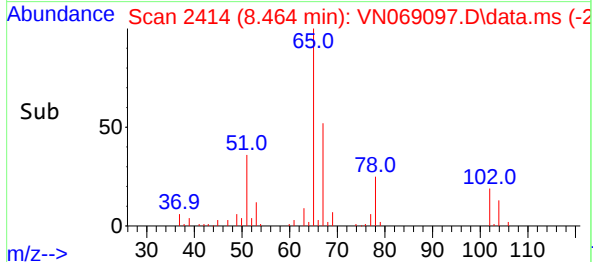
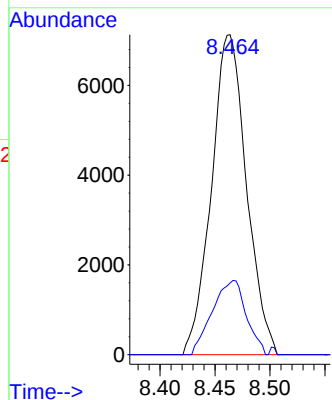
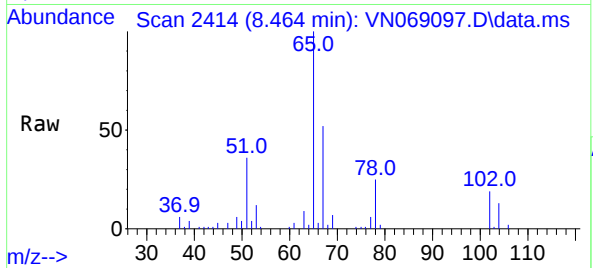




#40  
Benzene  
Concen: 1.036 ug/l  
RT: 8.464 min Scan# 2414  
Delta R.T. 0.003 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

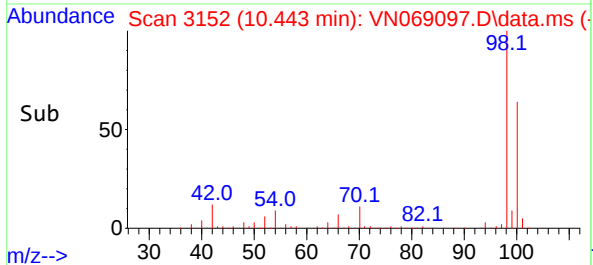
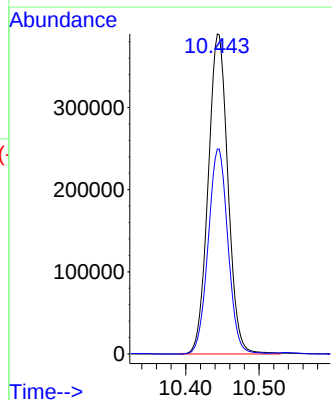
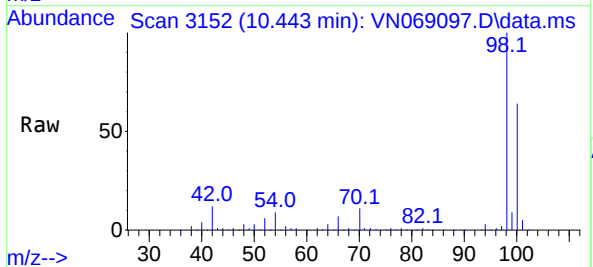
Instrument :  
MSVOA\_N  
ClientSampleId :  
211020075-02-VOA

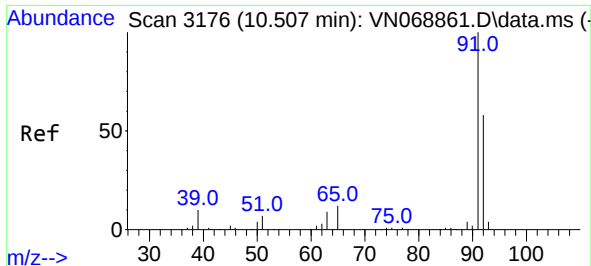
Tgt Ion: 78 Resp: 15798  
Ion Ratio Lower Upper  
78 100  
77 22.4 19.1 28.7



#50  
Toluene-d8  
Concen: 53.455 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. -0.000 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

Tgt Ion: 98 Resp: 729757  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.5 77.3

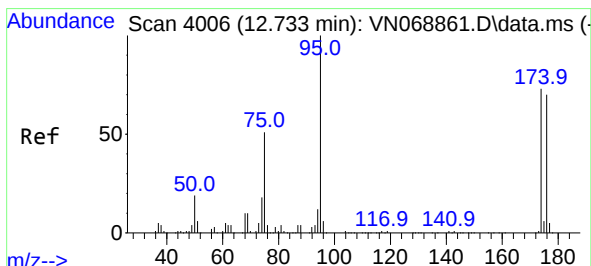
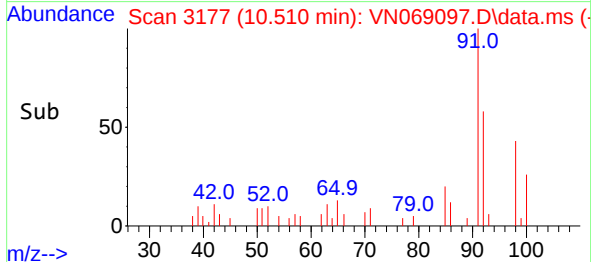
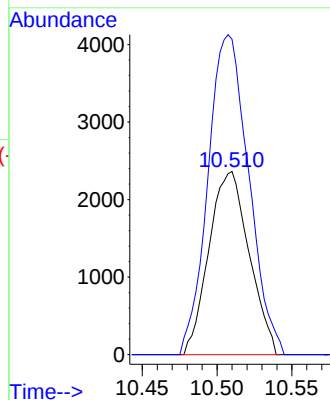
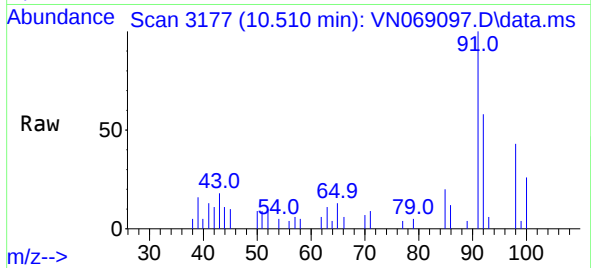




#52  
Toluene  
Concen: 0.450 ug/l  
RT: 10.510 min Scan# 3177  
Delta R.T. 0.003 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

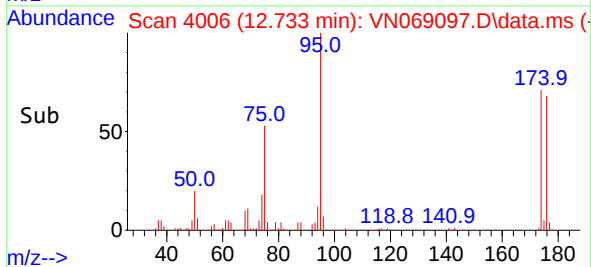
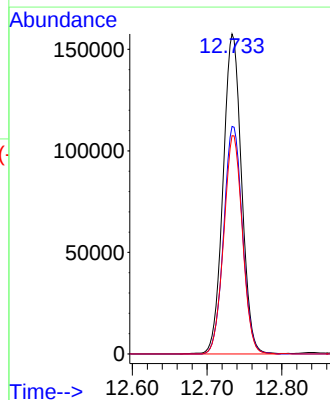
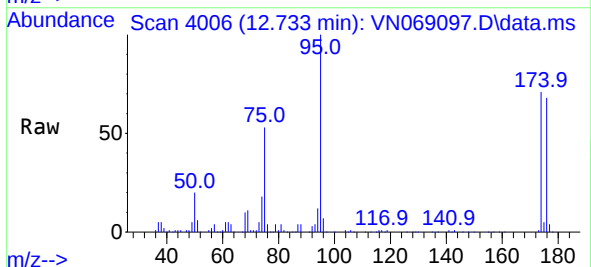
Instrument :  
MSVOA\_N  
ClientSampleId :  
211020075-02-VOA

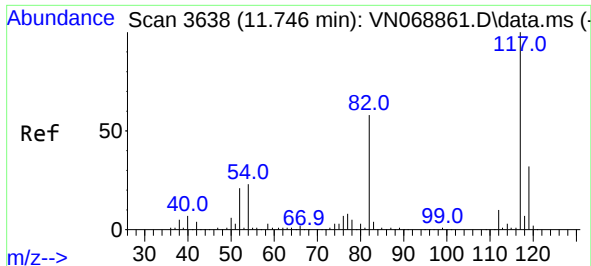
Tgt Ion: 92 Resp: 4420  
Ion Ratio Lower Upper  
92 100  
91 177.0 138.5 207.7



#62  
4-Bromofluorobenzene  
Concen: 52.461 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.000 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

Tgt Ion: 95 Resp: 270208  
Ion Ratio Lower Upper  
95 100  
174 71.9 0.0 144.8  
176 68.9 0.0 140.0

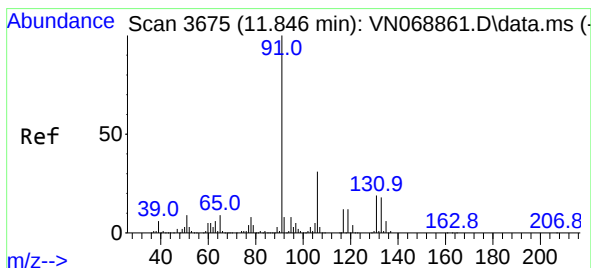
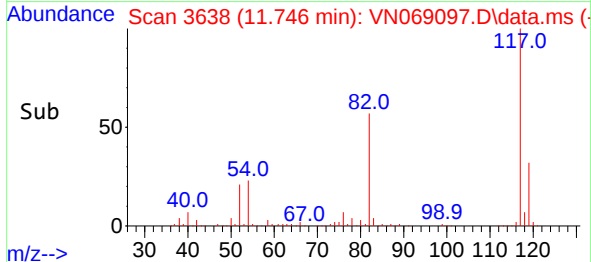
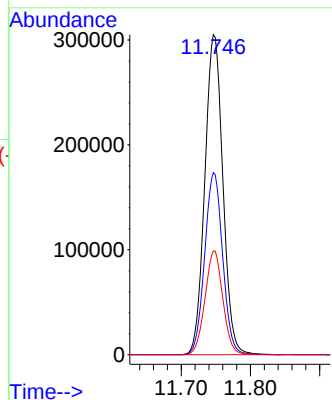
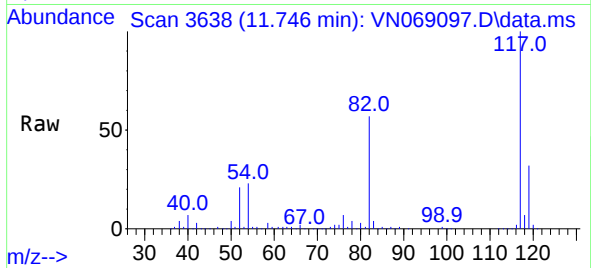




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.746 min Scan# 3638  
Delta R.T. -0.000 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

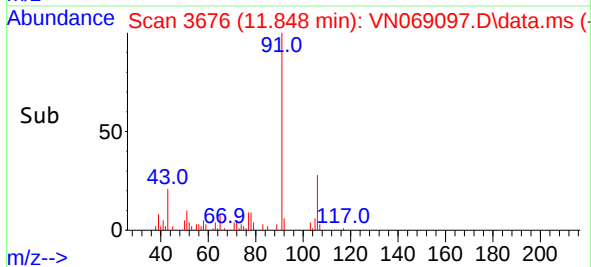
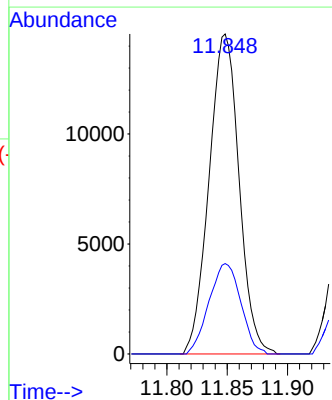
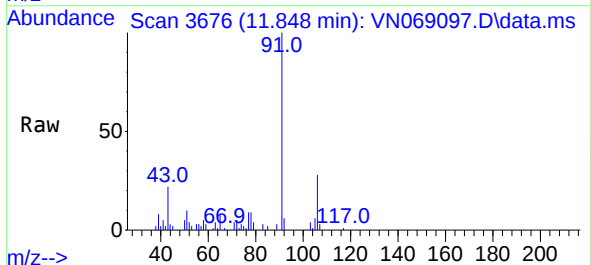
Instrument :  
MSVOA\_N  
ClientSampleId :  
211020075-02-VOA

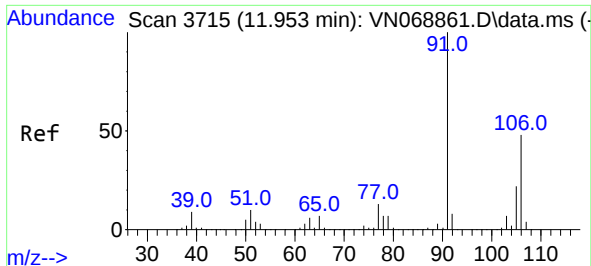
Tgt Ion:117 Resp: 553927  
Ion Ratio Lower Upper  
117 100  
82 56.9 46.4 69.6  
119 32.4 26.0 39.0



#67  
Ethyl Benzene  
Concen: 1.292 ug/l  
RT: 11.848 min Scan# 3676  
Delta R.T. 0.003 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

Tgt Ion: 91 Resp: 25148  
Ion Ratio Lower Upper  
91 100  
106 28.2 24.8 37.2

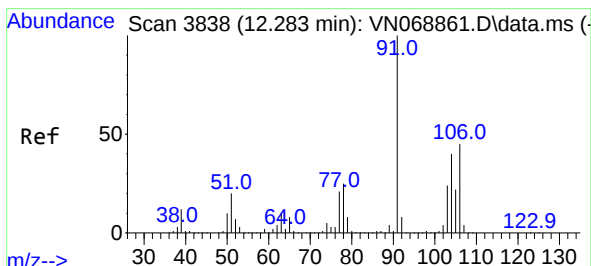
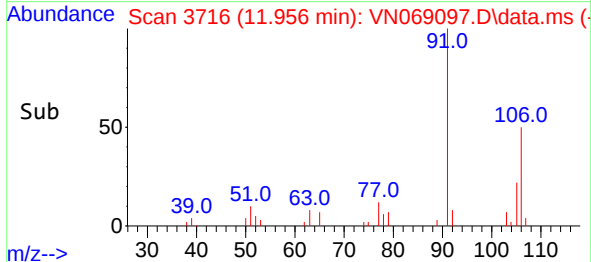
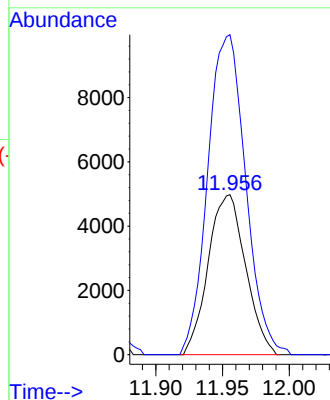
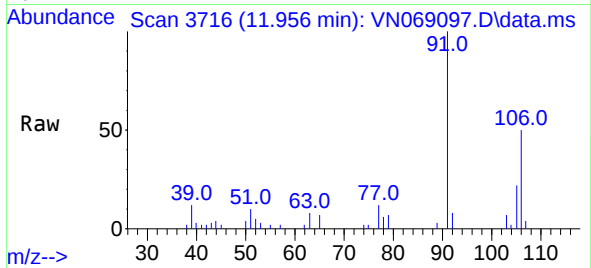




#68  
m/p-Xylenes  
Concen: 1.312 ug/l  
RT: 11.956 min Scan# 3716  
Delta R.T. 0.003 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

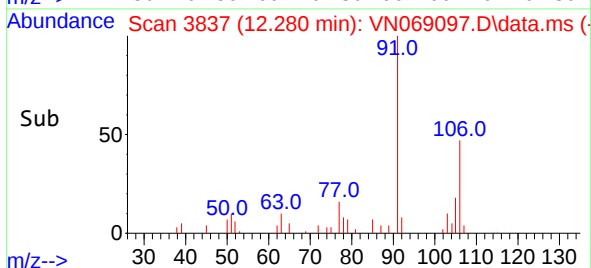
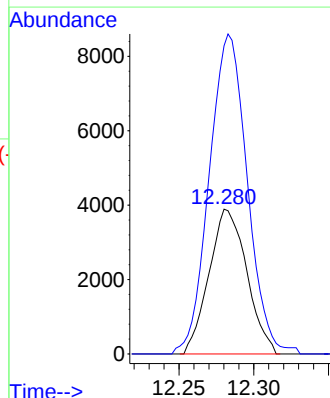
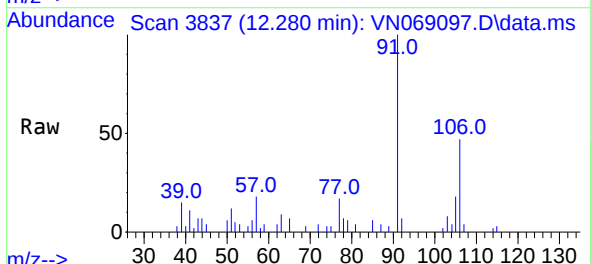
Instrument :  
MSVOA\_N  
ClientSampleId :  
211020075-02-VOA

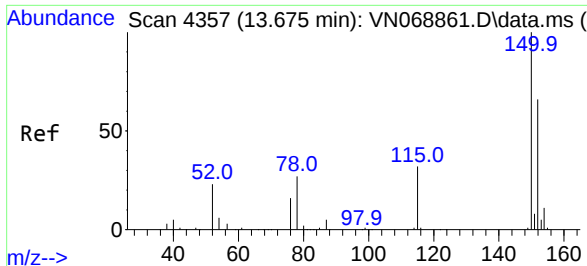
Tgt Ion:106 Resp: 9686  
Ion Ratio Lower Upper  
106 100  
91 202.9 166.8 250.2



#69  
o-Xylene  
Concen: 0.925 ug/l  
RT: 12.280 min Scan# 3837  
Delta R.T. -0.003 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

Tgt Ion:106 Resp: 6834  
Ion Ratio Lower Upper  
106 100  
91 222.7 109.6 328.6

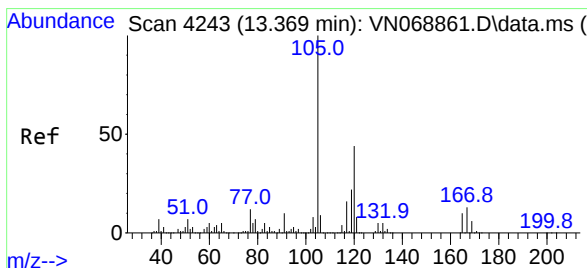
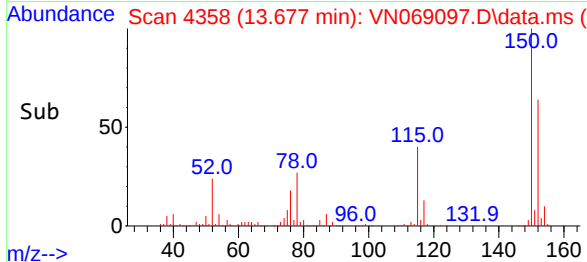
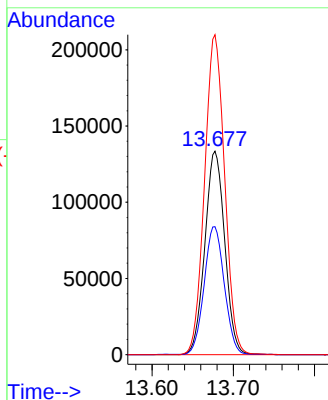
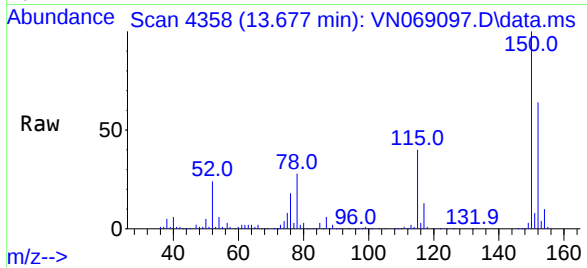




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.677 min Scan# 4358  
Delta R.T. 0.003 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

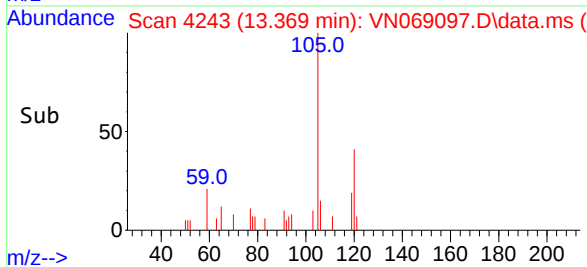
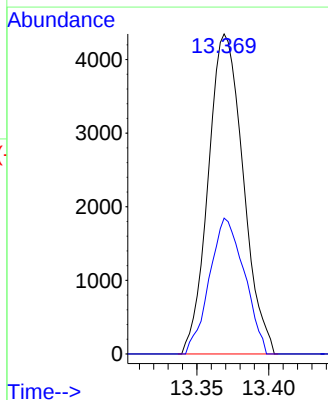
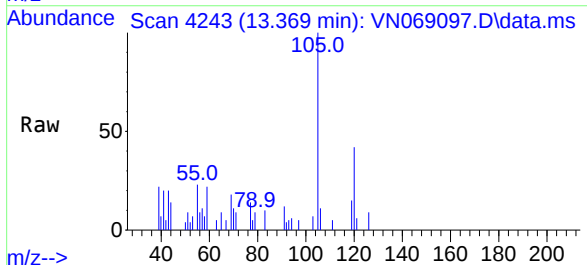
Instrument :  
MSVOA\_N  
ClientSampleId :  
211020075-02-VOA

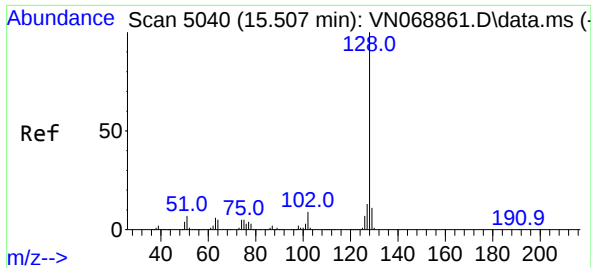
Tgt Ion:152 Resp: 227281  
Ion Ratio Lower Upper  
152 100  
115 63.4 31.4 94.3  
150 158.4 0.0 351.0



#84  
1,2,4-Trimethylbenzene  
Concen: 0.483 ug/l  
RT: 13.369 min Scan# 4243  
Delta R.T. -0.000 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

Tgt Ion:105 Resp: 7340  
Ion Ratio Lower Upper  
105 100  
120 42.4 21.9 65.5





#95  
Naphthalene  
Concen: 12.504 ug/l  
RT: 15.509 min Scan# 5041  
Delta R.T. 0.002 min  
Lab File: VN069097.D  
Acq: 21 Oct 2021 18:59

Instrument :  
MSVOA\_N  
ClientSampleId :  
211020075-02-VOA

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 99251 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 13.5  | 10.5  | 15.7  |
| 129      | 10.7  | 8.9   | 13.3  |

