

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111521\  
 Data File : VD071026.D  
 Acq On : 15 Nov 2021 13:53  
 Operator : VA/SY  
 Sample : M4595-05RE  
 Misc : 5.51G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 15 14:39:02 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D110921S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 10 03:55:51 2021  
 Response via : Initial Calibration

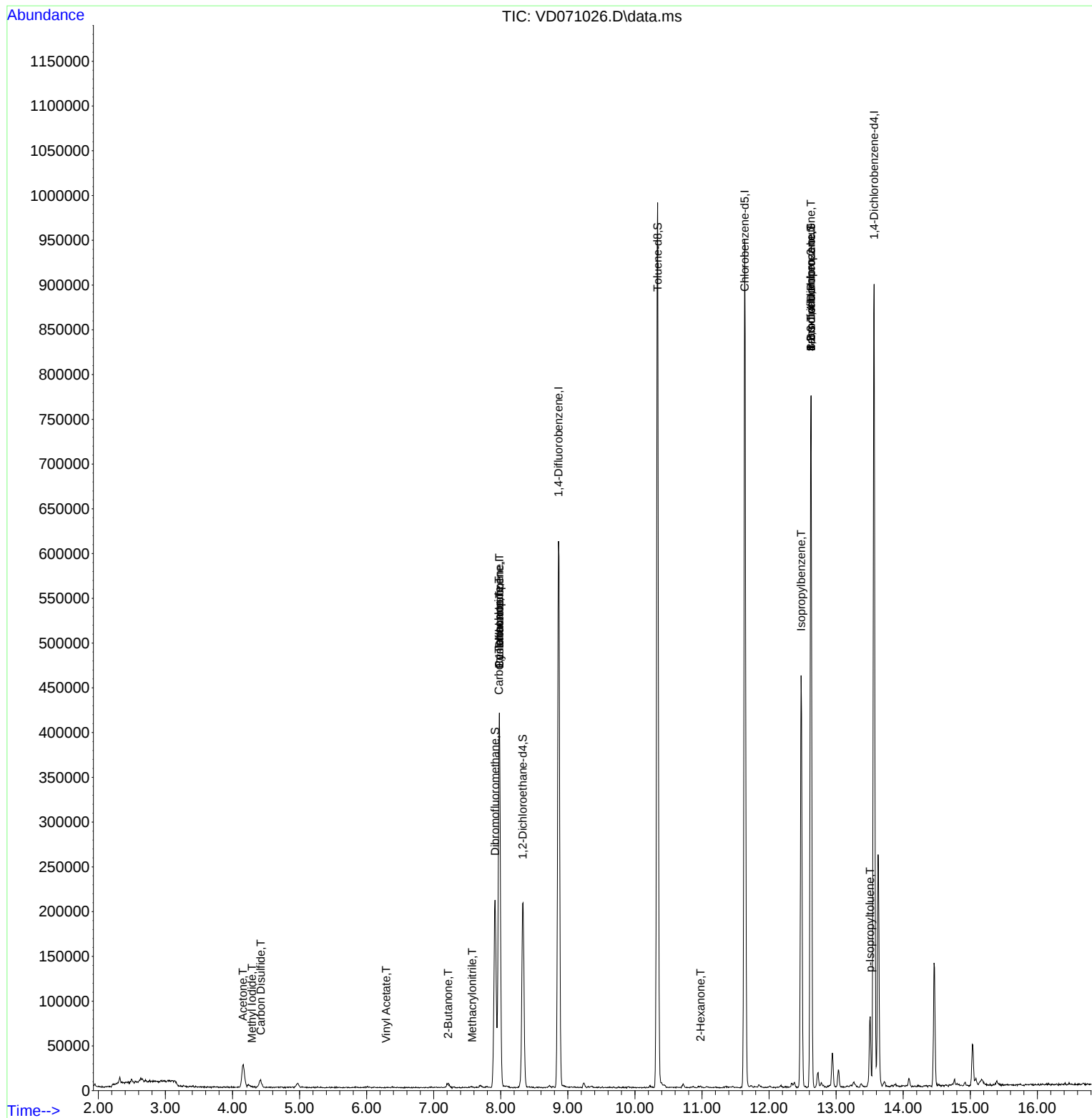
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 296941   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 509246   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 493481   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 222902   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 165298   | 52.284   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 104.560% |          |
| 35) Dibromofluoromethane      | 7.914  | 113   | 149401   | 51.991   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 103.980% |          |
| 50) Toluene-d8                | 10.338 | 98    | 643109   | 57.147   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery | = 114.300% |          |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 236370   | 58.334   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery | = 116.660% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 10) Methyl Iodide             | 4.291  | 142   | 264      | 6.089    | ug/l #     | 40       |
| 16) Acetone                   | 4.156  | 43    | 47998    | 71.562   | ug/l #     | 86       |
| 17) Carbon Disulfide          | 4.420  | 76    | 16449    | 1.807    | ug/l #     | 89       |
| 23) Vinyl Acetate             | 6.291  | 43    | 55       | 20.991   | ug/l #     | 72       |
| 25) 2-Butanone                | 7.214  | 43    | 7680     | 26.761   | ug/l #     | 80       |
| 31) Cyclohexane               | 7.979  | 56    | 8770     | 1.349    | ug/l #     | 32       |
| 36) 1,1-Dichloropropene       | 7.979  | 75    | 27067    | 5.953    | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.973  | 117   | 30809    | 7.358    | ug/l #     | 15       |
| 41) Methacrylonitrile         | 7.573  | 41    | 722      | 3.945    | ug/l #     | 29       |
| 59) 2-Hexanone                | 10.979 | 43    | 656      | 16.304   | ug/l       | 82       |
| 71) Bromoform                 | 12.626 | 173   | 1673     | 1.027    | ug/l #     | 1        |
| 73) Isopropylbenzene          | 12.479 | 105   | 19131    | 1.191    | ug/l #     | 62       |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 132522   | 69.601   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 132522   | 128.432  | ug/l #     | 18       |
| 86) p-Isopropyltoluene        | 13.508 | 119   | 42455    | 3.088    | ug/l       | 95       |
| -----                         |        |       |          |          |            |          |

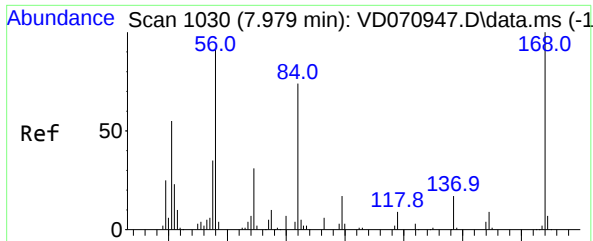
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111521\  
Data File : VD071026.D  
Acq On : 15 Nov 2021 13:53  
Operator : VA/SY  
Sample : M4595-05RE  
Misc : 5.51G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

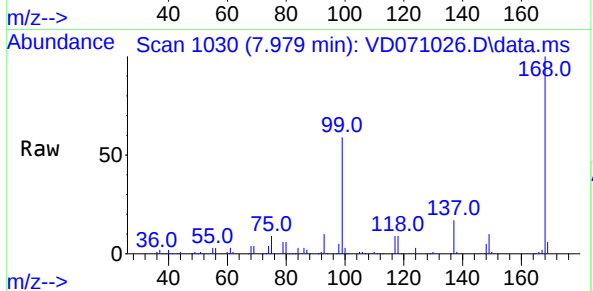
Quant Time: Nov 15 14:39:02 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D110921S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 10 03:55:51 2021  
Response via : Initial Calibration



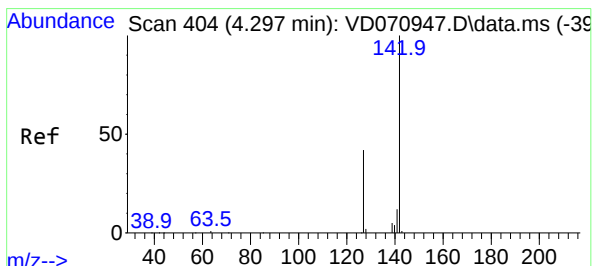
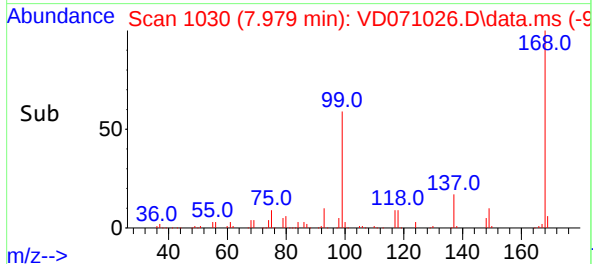
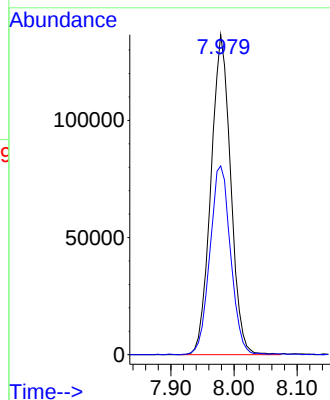


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.000 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

Instrument :  
MSVOA\_D  
ClientSampleId :

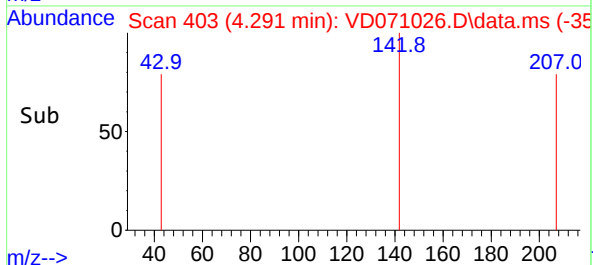
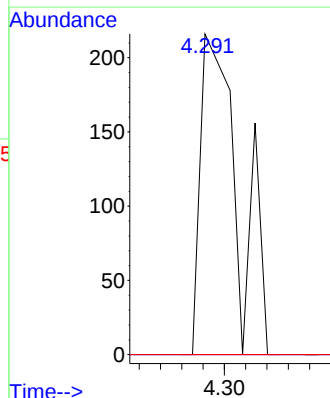
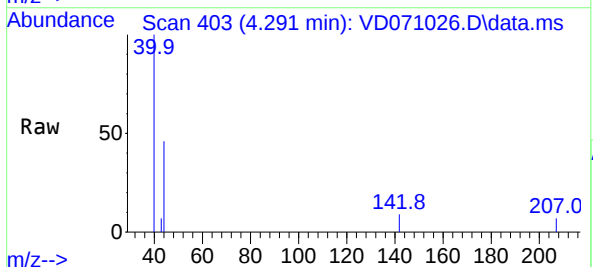


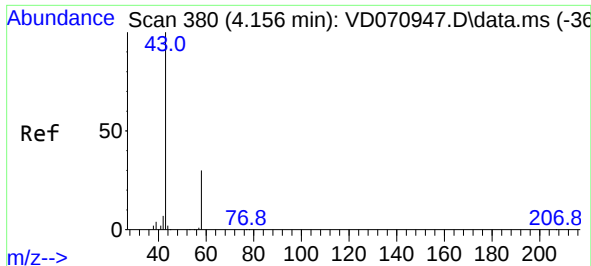
Tgt Ion:168 Resp: 296941  
Ion Ratio Lower Upper  
168 100  
99 59.0 46.6 69.8



#10  
Methyl Iodide  
Concen: 6.089 ug/l  
RT: 4.291 min Scan# 403  
Delta R.T. -0.006 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

Tgt Ion:142 Resp: 264  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.0 52.4#  
141 0.0 12.0 18.0#

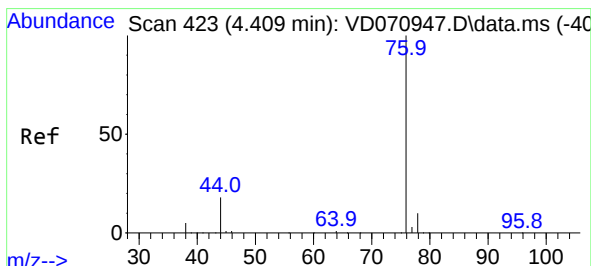
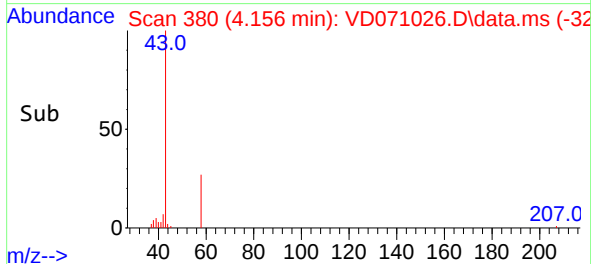
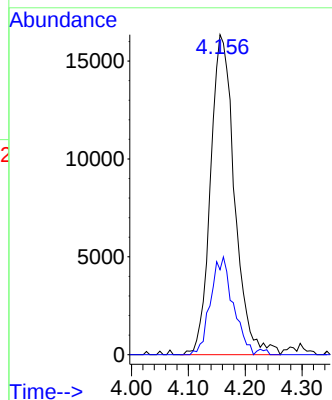
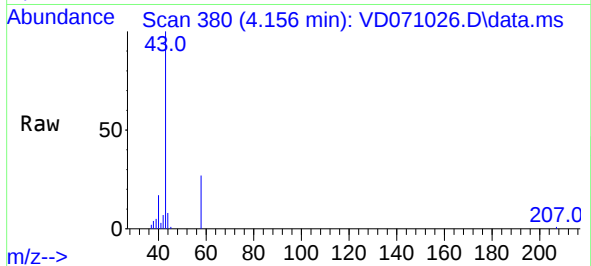




#16  
Acetone  
Concen: 71.562 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. -0.000 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

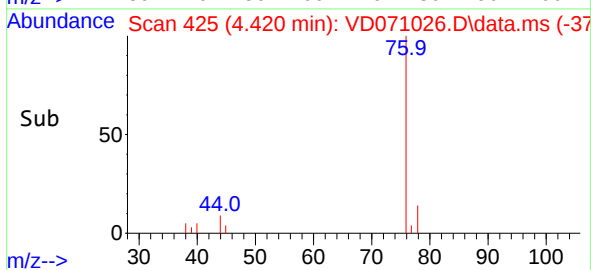
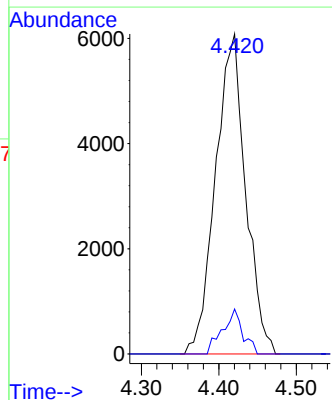
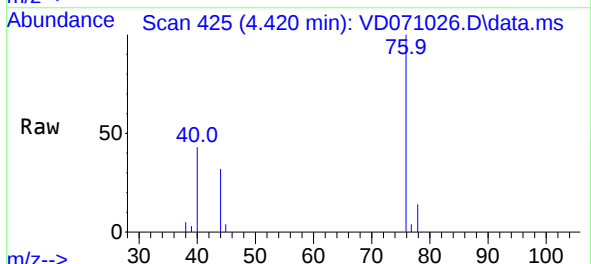
Instrument : MSVOA\_D  
ClientSampleId :

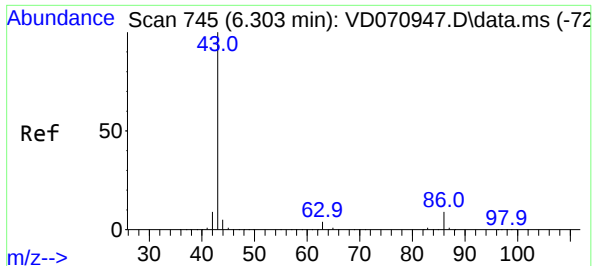
Tgt Ion: 43 Resp: 47998  
Ion Ratio Lower Upper  
43 100  
58 26.6 27.8 41.8#



#17  
Carbon Disulfide  
Concen: 1.807 ug/l  
RT: 4.420 min Scan# 425  
Delta R.T. 0.011 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

Tgt Ion: 76 Resp: 16449  
Ion Ratio Lower Upper  
76 100  
78 14.0 7.8 11.8#

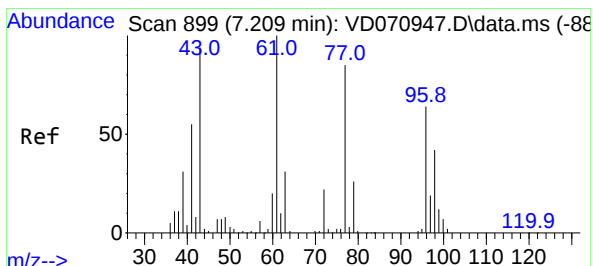
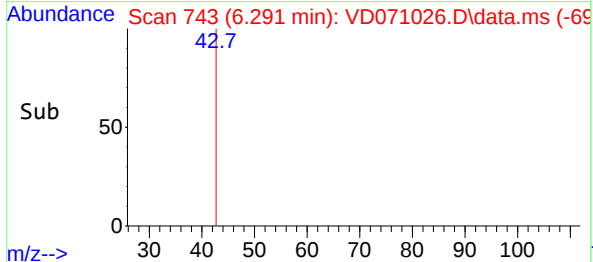
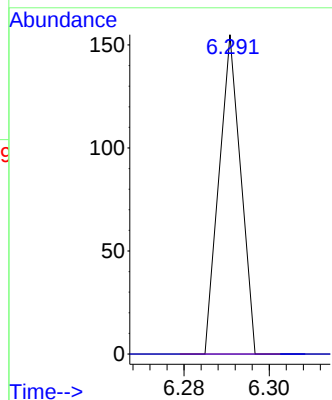
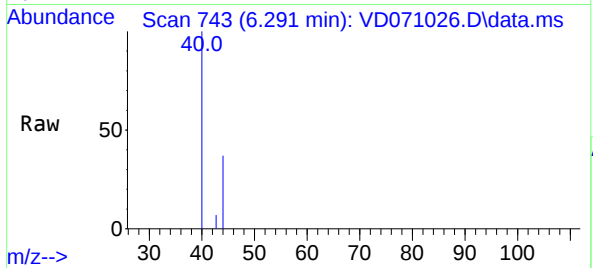




#23  
 Vinyl Acetate  
 Concen: 20.991 ug/l  
 RT: 6.291 min Scan# 745  
 Delta R.T. -0.012 min  
 Lab File: VD071026.D  
 Acq: 15 Nov 2021 13:53

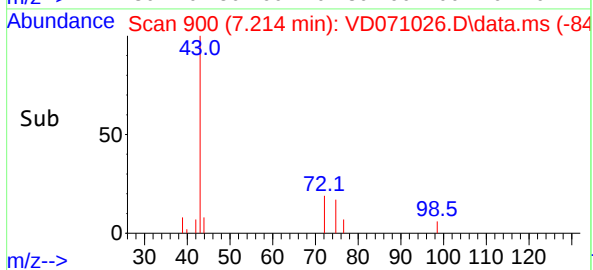
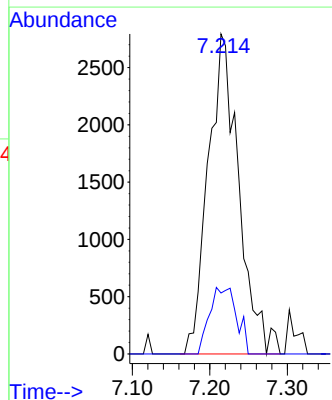
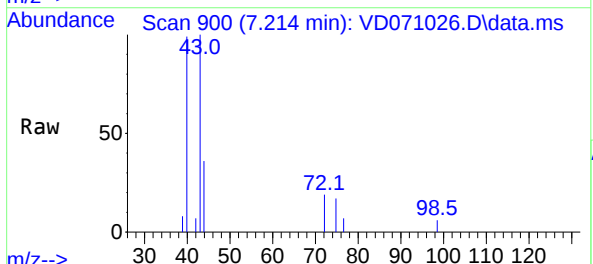
Instrument :  
 MSVOA\_D  
 ClientSampleId :

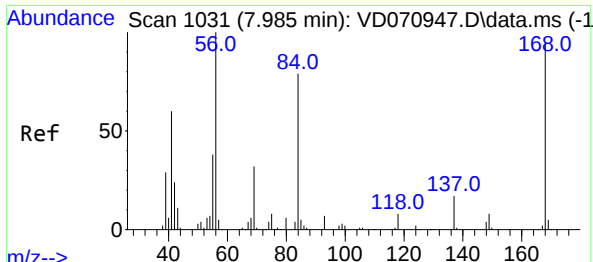
Tgt Ion: 43 Resp: 55  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.2 12.4#



#25  
 2-Butanone  
 Concen: 26.761 ug/l  
 RT: 7.214 min Scan# 900  
 Delta R.T. 0.005 min  
 Lab File: VD071026.D  
 Acq: 15 Nov 2021 13:53

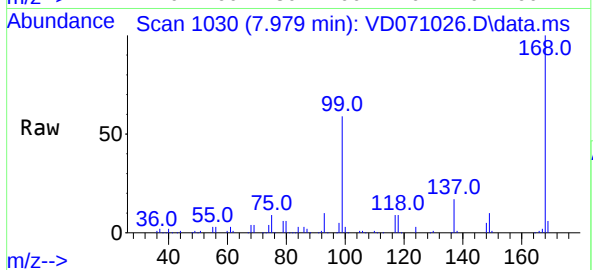
Tgt Ion: 43 Resp: 7680  
 Ion Ratio Lower Upper  
 43 100  
 72 19.0 23.8 35.6#



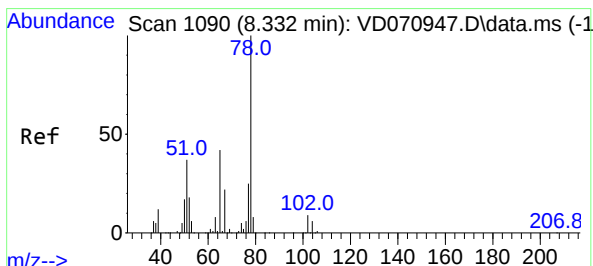
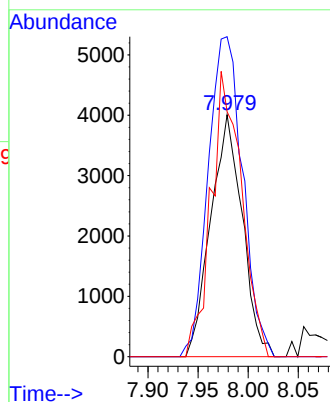
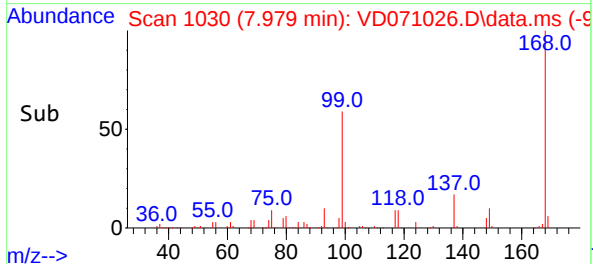


#31  
Cyclohexane  
Concen: 1.349 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

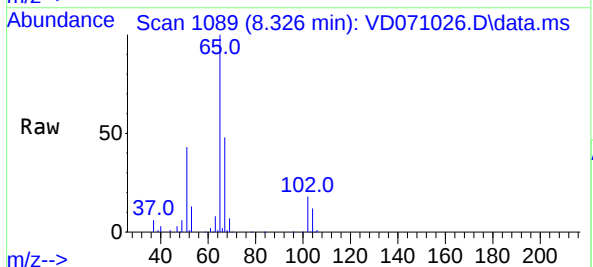
Instrument :  
MSVOA\_D  
ClientSampleId :



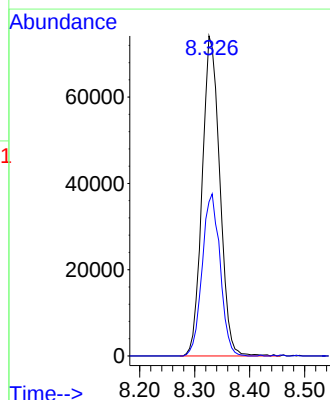
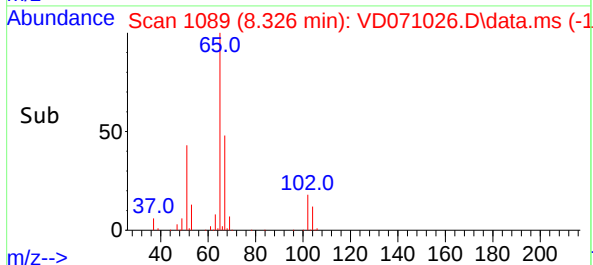
Tgt Ion: 56 Resp: 8770  
Ion Ratio Lower Upper  
56 100  
69 132.3 25.9 38.9#  
84 101.3 64.3 96.5#

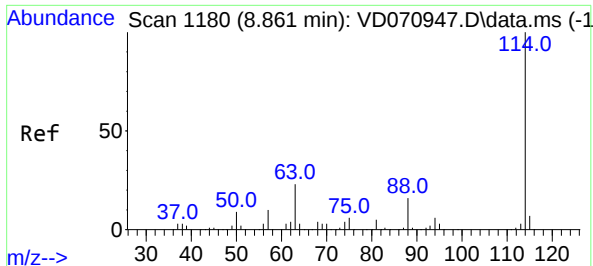


#33  
1,2-Dichloroethane-d4  
Concen: 52.284 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.006 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53



Tgt Ion: 65 Resp: 165298  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 112.2

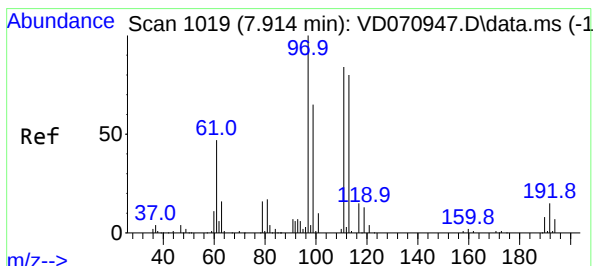
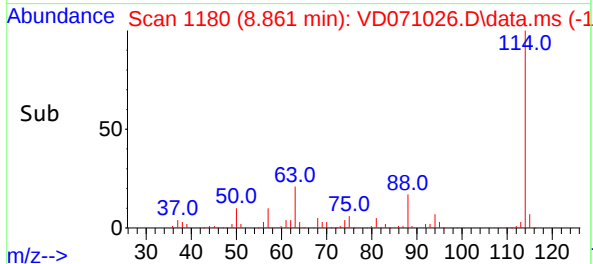
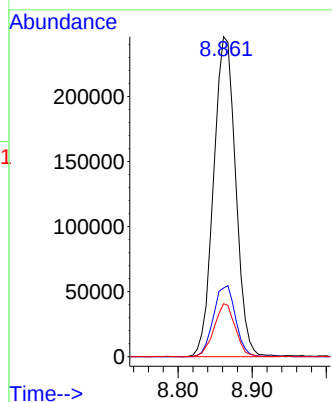
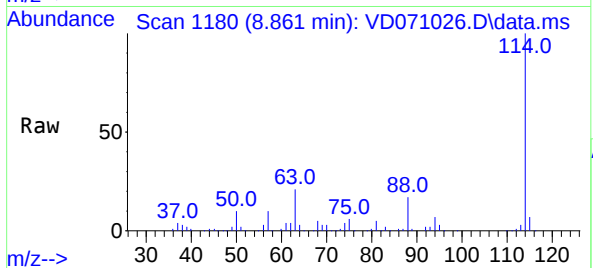




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

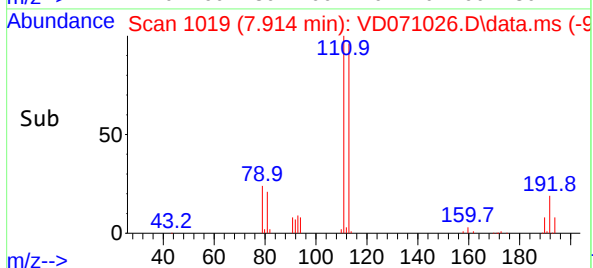
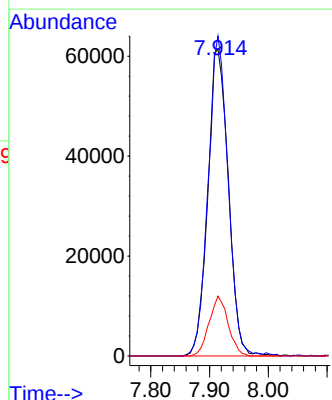
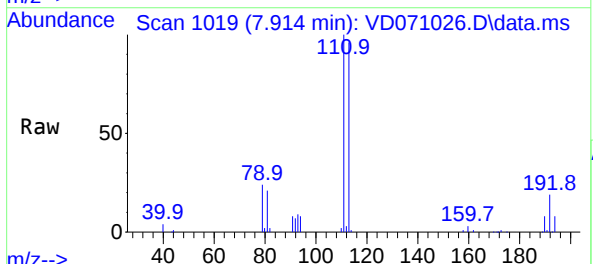
Instrument :  
MSVOA\_D  
ClientSampleId :

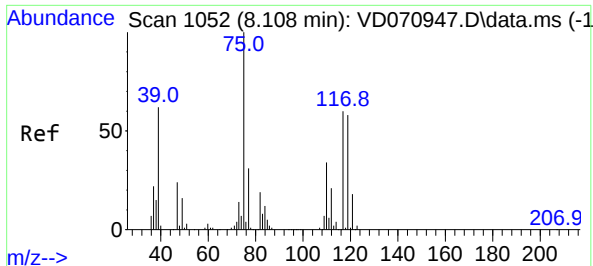
Tgt Ion:114 Resp: 509246  
Ion Ratio Lower Upper  
114 100  
63 21.4 0.0 41.8  
88 16.6 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 51.991 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. 0.000 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

Tgt Ion:113 Resp: 149401  
Ion Ratio Lower Upper  
113 100  
111 100.6 82.0 123.0  
192 18.0 15.2 22.8





#36

1,1-Dichloropropene

Concen: 5.953 ug/l

RT: 7.979 min Scan# 1029

Delta R.T. -0.129 min

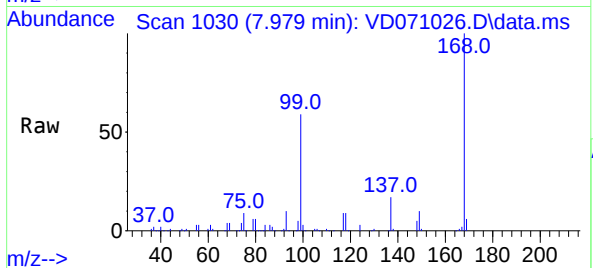
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Acq: 15 Nov 2021 13:53

Instrument :

MSVOA\_D

ClientSampleId :



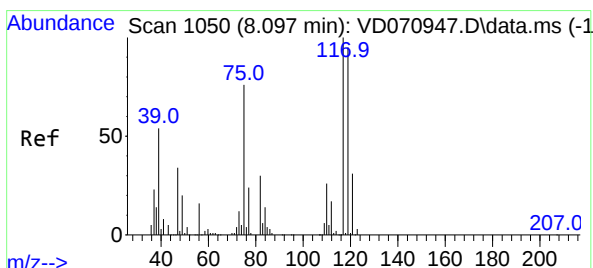
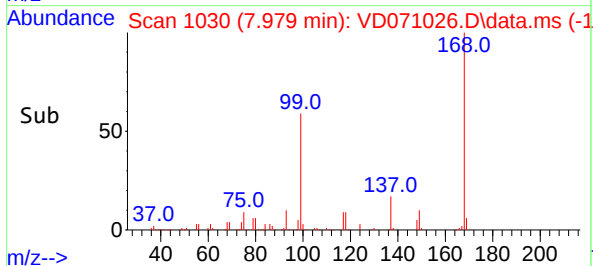
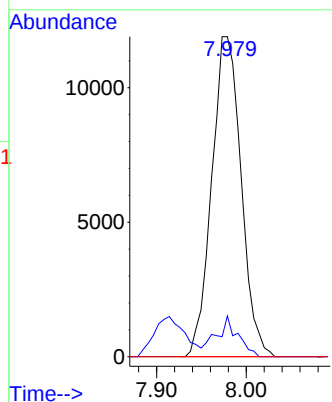
Tgt Ion: 75 Resp: 27067

Ion Ratio Lower Upper

75 100

110 9.2 17.8 53.4#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.358 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.124 min

Lab File: VD071026.D

Acq: 15 Nov 2021 13:53

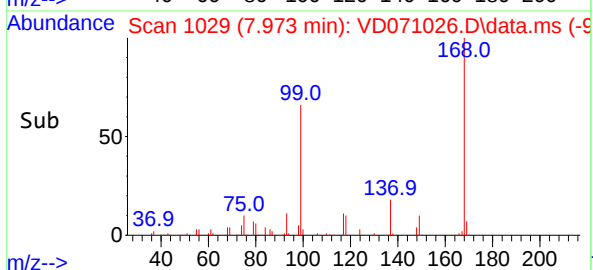
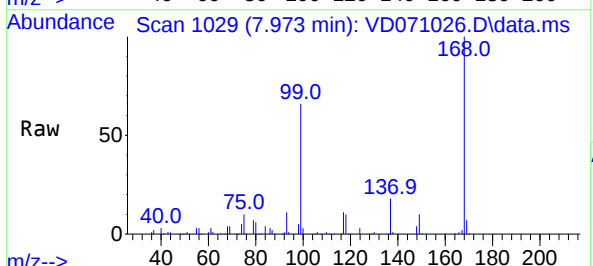
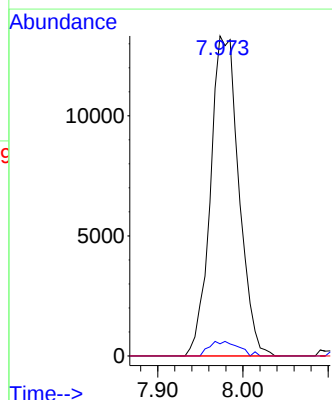
Tgt Ion: 117 Resp: 30809

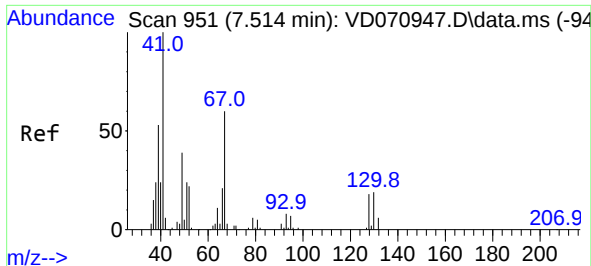
Ion Ratio Lower Upper

117 100

119 3.8 75.8 113.6#

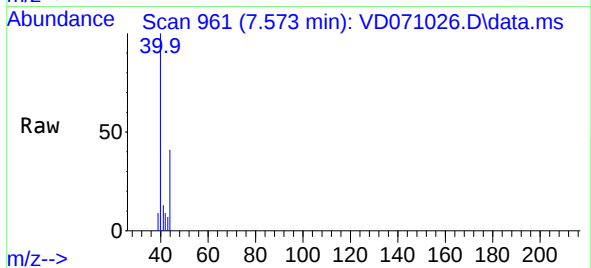
121 0.0 23.6 35.4#





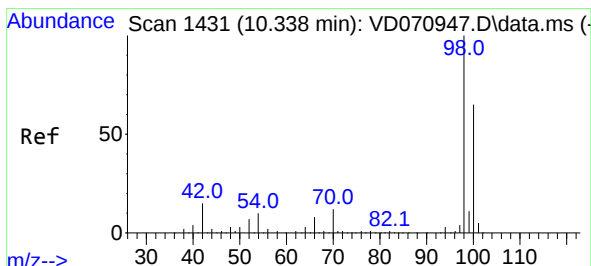
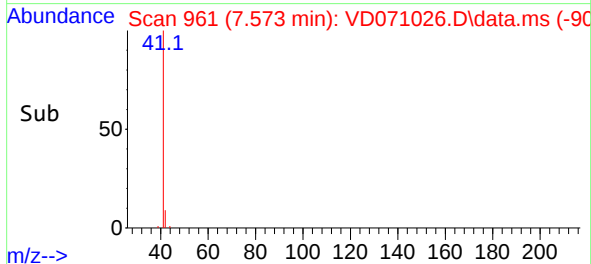
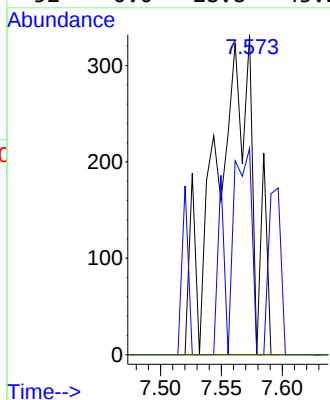
#41  
Methacrylonitrile  
Concen: 3.945 ug/l  
RT: 7.573 min Scan# 91  
Delta R.T. 0.059 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion: 41 Resp: 722

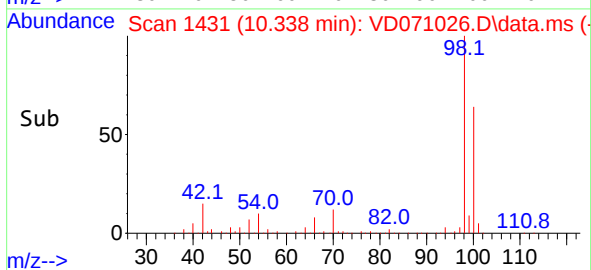
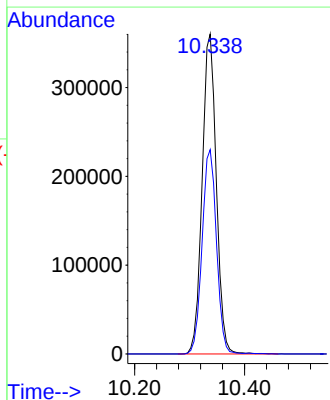
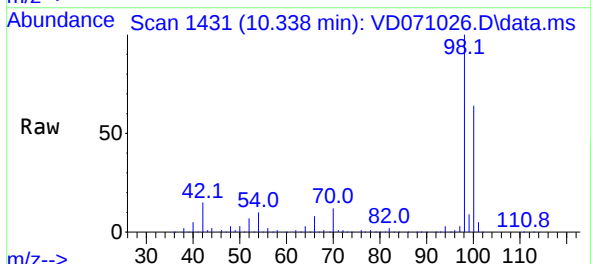
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 41  | 100   |       |        |
| 39  | 38.4  | 60.2  | 90.4#  |
| 67  | 0.0   | 74.8  | 112.2# |
| 52  | 0.0   | 28.8  | 43.2#  |

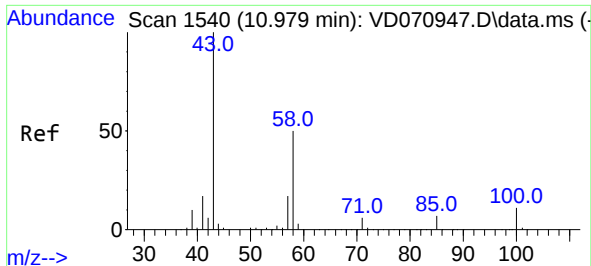


#50  
Toluene-d8  
Concen: 57.147 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

Tgt Ion: 98 Resp: 643109

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 64.8  | 51.8  | 77.6  |

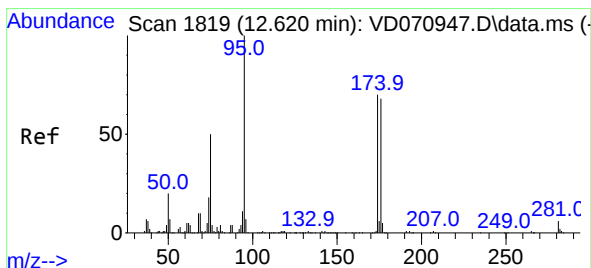
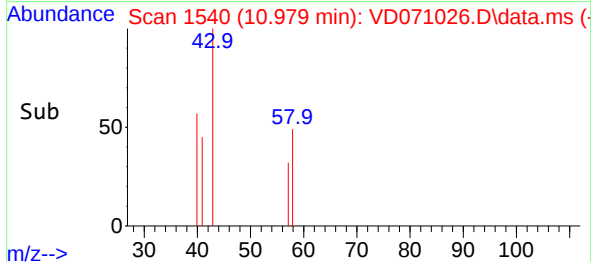
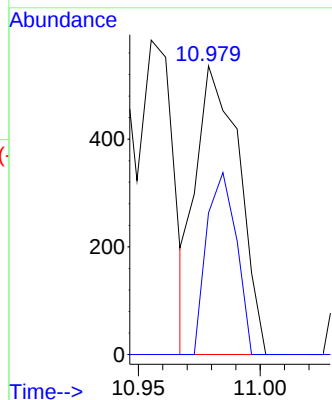
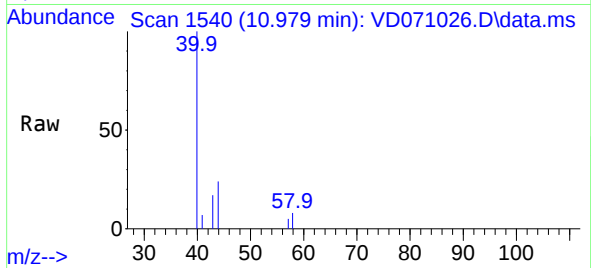




#59  
2-Hexanone  
Concen: 16.304 ug/l  
RT: 10.979 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

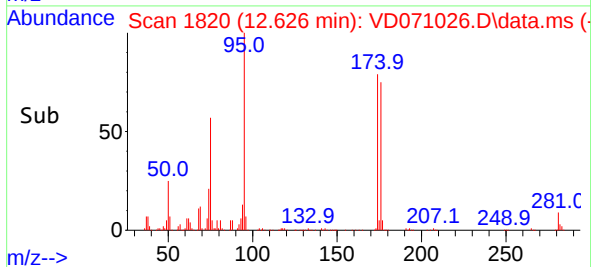
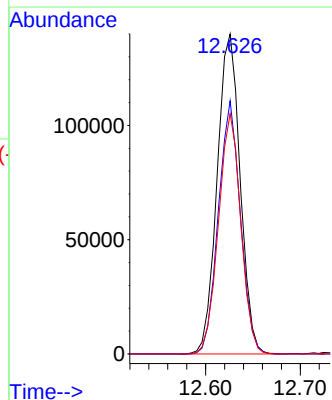
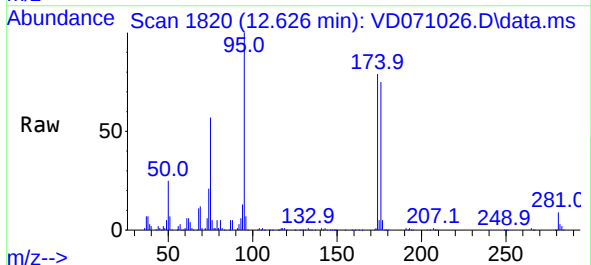
Instrument :  
MSVOA\_D  
ClientSampleId :

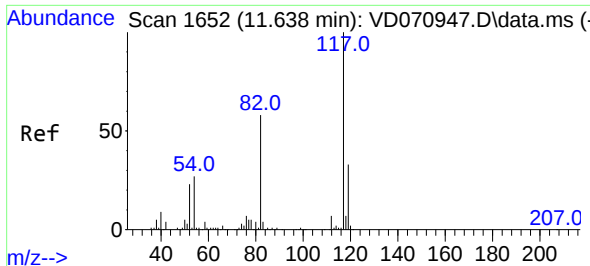
Tgt Ion: 43 Resp: 656  
Ion Ratio Lower Upper  
43 100  
58 43.8 28.7 86.1



#62  
4-Bromofluorobenzene  
Concen: 58.334 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.006 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

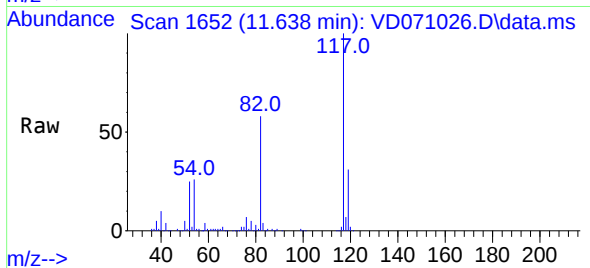
Tgt Ion: 95 Resp: 236370  
Ion Ratio Lower Upper  
95 100  
174 75.7 0.0 159.4  
176 72.6 0.0 154.0



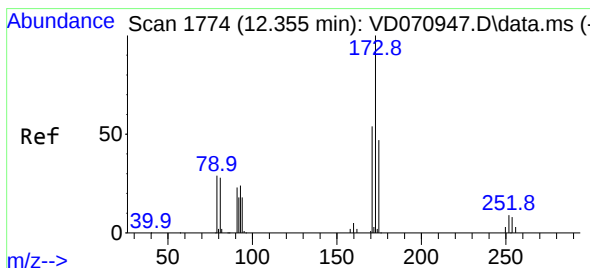
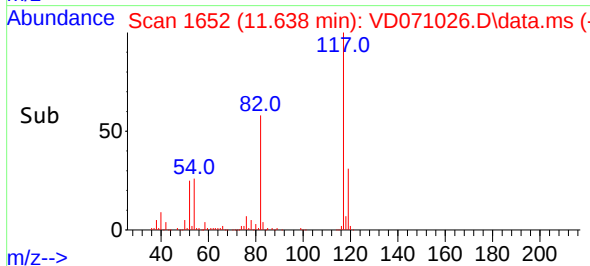
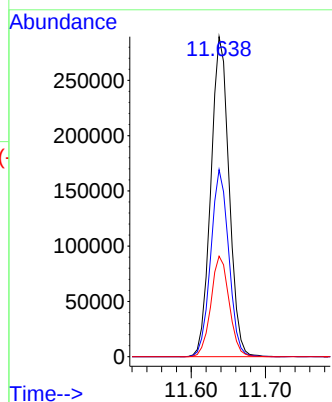


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

Instrument :  
MSVOA\_D  
ClientSampleId :

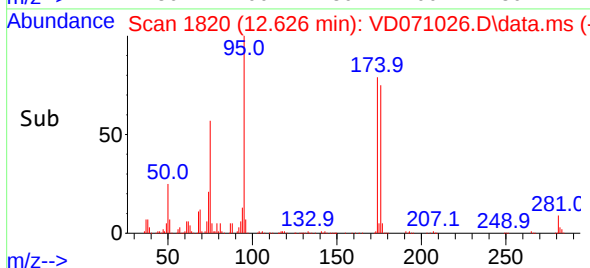
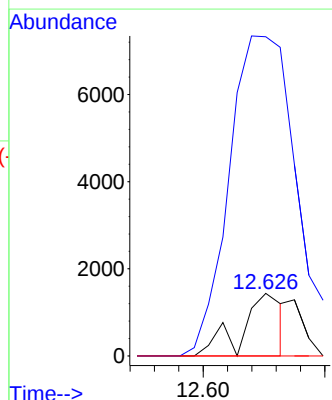
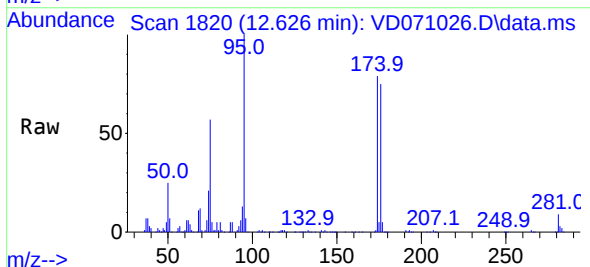


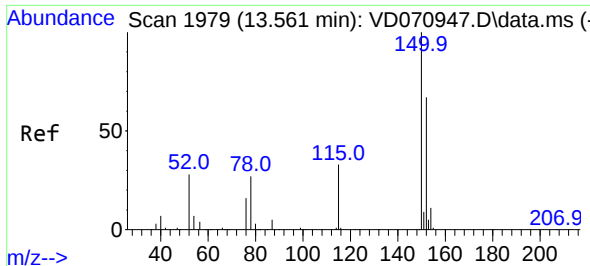
Tgt Ion:117 Resp: 493481  
Ion Ratio Lower Upper  
117 100  
82 58.4 44.7 67.1  
119 31.4 26.2 39.4



#71  
Bromoform  
Concen: 1.027 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.271 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

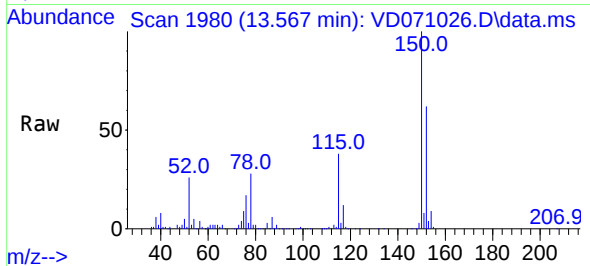
Tgt Ion:173 Resp: 1673  
Ion Ratio Lower Upper  
173 100  
175 673.0 24.1 72.2#  
254 0.0 0.1 0.1#



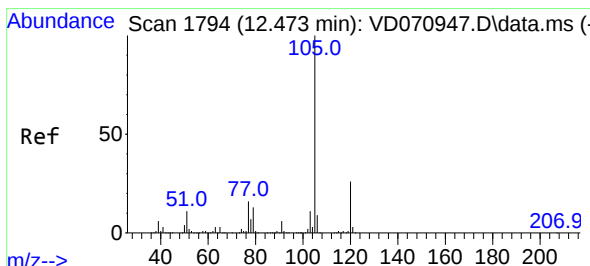
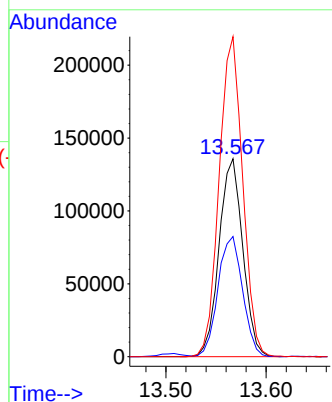
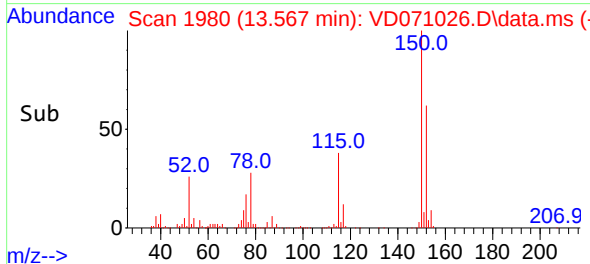


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1979  
Delta R.T. 0.006 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

Instrument :  
MSVOA\_D  
ClientSampleId :

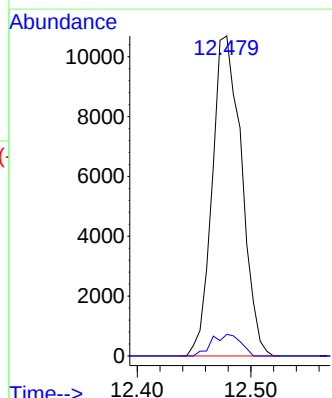
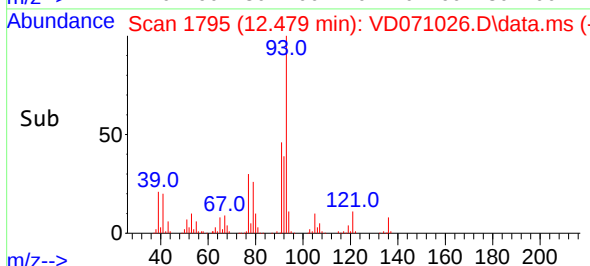
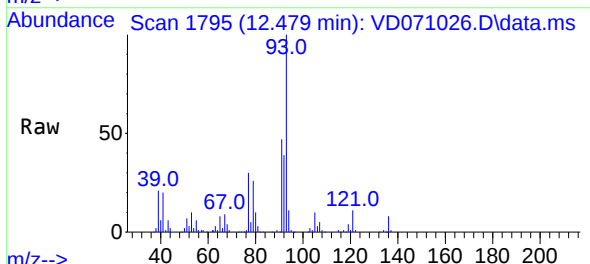


Tgt Ion:152 Resp: 222902  
Ion Ratio Lower Upper  
152 100  
115 63.0 29.8 89.3  
150 160.5 0.0 349.2

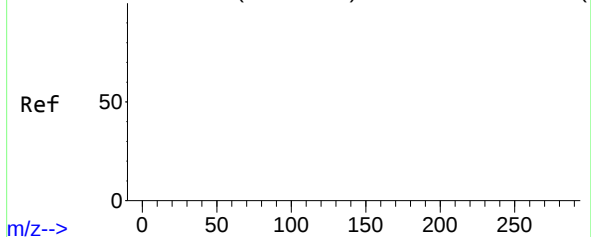


#73  
Isopropylbenzene  
Concen: 1.191 ug/l  
RT: 12.479 min Scan# 1795  
Delta R.T. 0.006 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

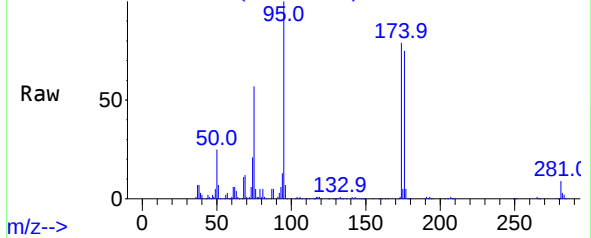
Tgt Ion:105 Resp: 19131  
Ion Ratio Lower Upper  
105 100  
120 6.7 13.2 39.5#



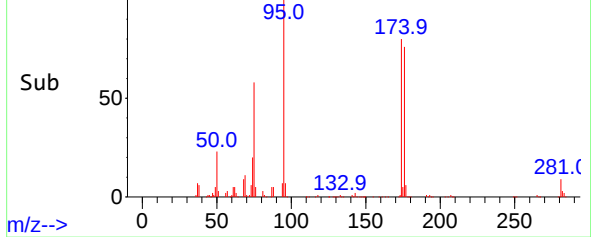
Abundance Scan 1847 (12.785 min): VD070947.D\data.ms (-



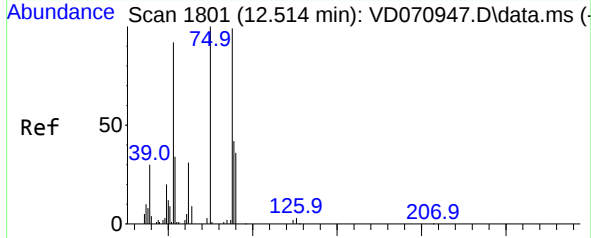
Ref 50



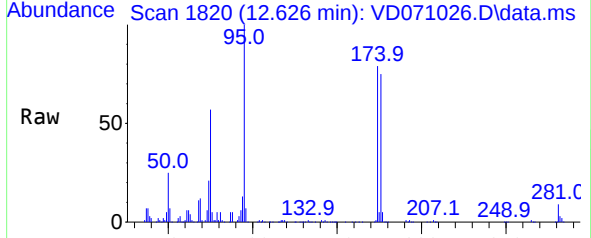
Raw 50



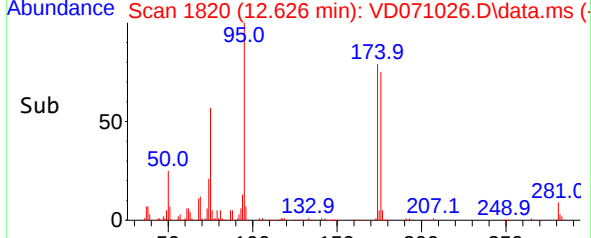
Sub 50



Ref 50



Raw 50

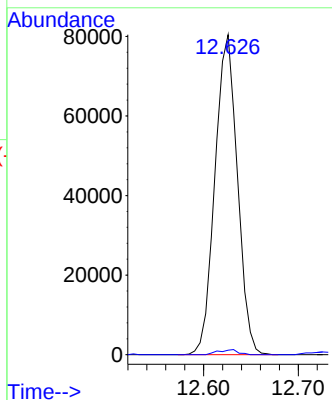


Sub 50

#76  
1,2,3-Trichloropropane  
Concen: 69.601 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.159 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

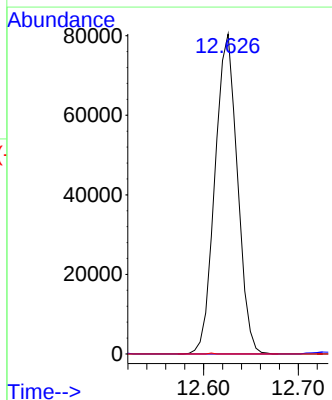
Instrument :  
MSVOA\_D  
ClientSampleId :

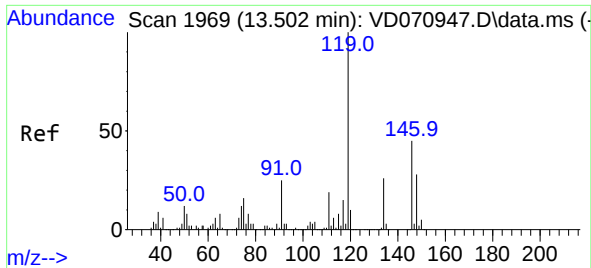
Tgt Ion: 75 Resp: 132522  
Ion Ratio Lower Upper  
75 100  
77 1.4 158.4 475.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 128.432 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.112 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

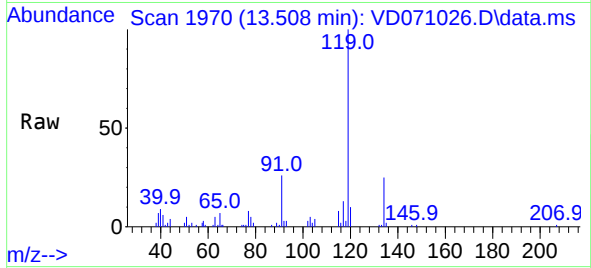
Tgt Ion: 75 Resp: 132522  
Ion Ratio Lower Upper  
75 100  
53 0.0 62.6 94.0#  
89 0.1 34.5 51.7#





#86  
p-Isopropyltoluene  
Concen: 3.088 ug/l  
RT: 13.508 min Scan# 1969  
Delta R.T. 0.006 min  
Lab File: VD071026.D  
Acq: 15 Nov 2021 13:53

Instrument :  
MSVOA\_D  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 42455 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 25.6  | 13.0  | 38.9  |
| 91       | 27.7  | 11.4  | 34.2  |

