

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD101022\  
 Data File : VD074501.D  
 Acq On : 10 Oct 2022 14:33  
 Operator : VA/SY  
 Sample : N5058-05  
 Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB-RW5-GW-823-825

Quant Time: Oct 11 08:21:00 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D100522S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 06 01:54:40 2022  
 Response via : Initial Calibration

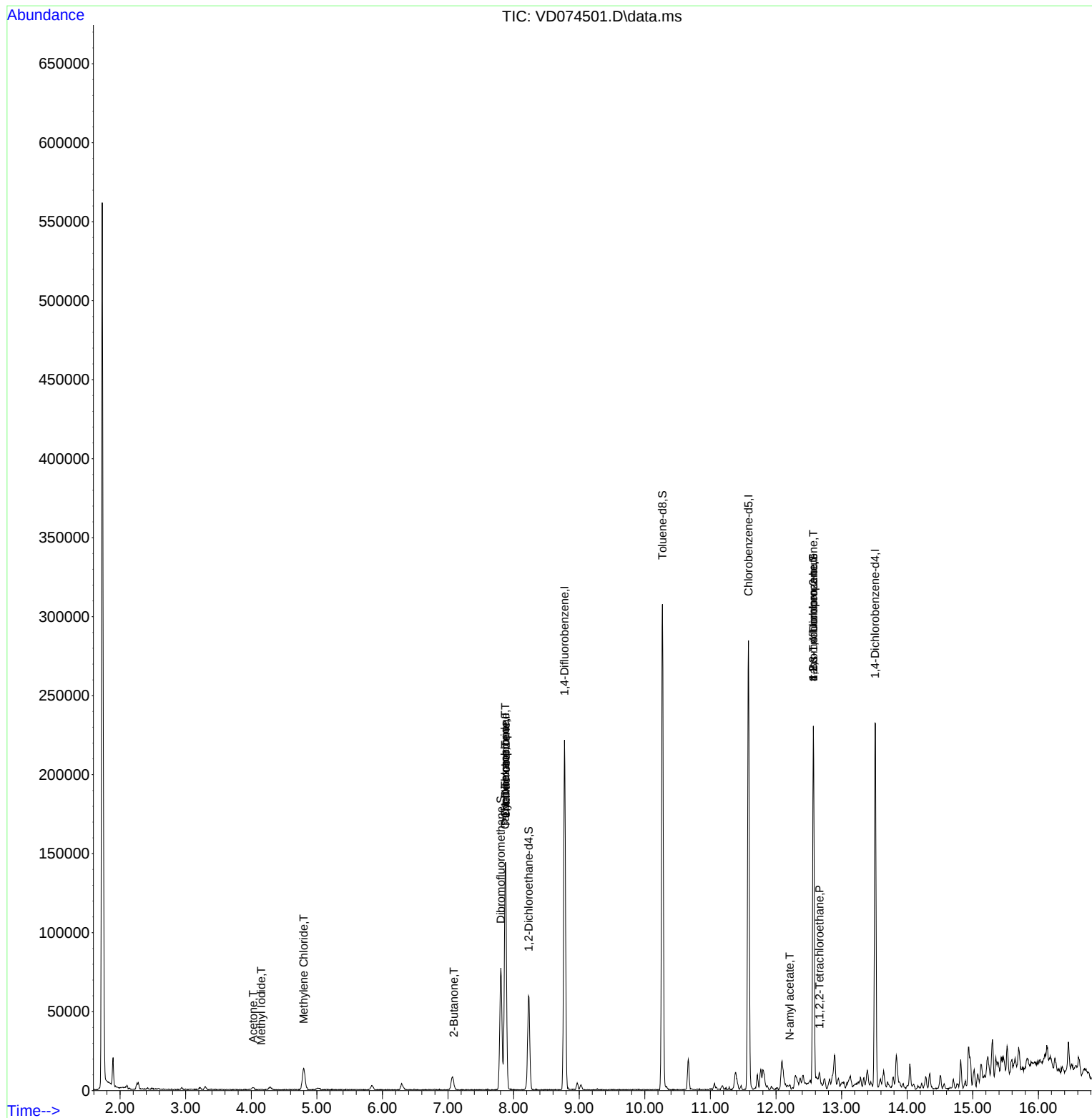
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.881          | 168  | 117802     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.775          | 114  | 209015     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581         | 117  | 174294     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.510         | 152  | 66514      | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.228          | 65   | 46107      | 44.053    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 88.100%   |        |          |
| 35) Dibromofluoromethane      | 7.805          | 113  | 55548      | 40.303    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 80.600%   |        |          |
| 50) Toluene-d8                | 10.269         | 98   | 224342     | 44.760    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = | 89.520%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.569         | 95   | 58333      | 35.732    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = | 71.460%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 10) Methyl Iodide             | 4.152          | 142  | 66         | 5.847     | ug/l # | 43       |
| 11) Tert butyl alcohol        | 5.016          | 59   | 1235       | Below Cal | #      | 84       |
| 16) Acetone                   | 4.028          | 43   | 2285       | 19.526    | ug/l   | 88       |
| 20) Methylene Chloride        | 4.799          | 84   | 11169      | 1.929     | ug/l   | 93       |
| 25) 2-Butanone                | 7.087          | 43   | 368        | 1.226     | ug/l # | 42       |
| 31) Cyclohexane               | 7.875          | 56   | 2517       | 1.197     | ug/l # | 17       |
| 36) 1,1-Dichloropropene       | 7.875          | 75   | 8501       | 4.394     | ug/l # | 45       |
| 38) Carbon Tetrachloride      | 7.869          | 117  | 11541      | 6.732     | ug/l # | 20       |
| 74) N-amyl acetate            | 12.210         | 43   | 872        | 1.042     | ug/l # | 44       |
| 75) 1,1,2,2-Tetrachloroethane | 12.663         | 83   | 858        | 1.055     | ug/l # | 24       |
| 76) 1,2,3-Trichloropropane    | 12.569         | 75   | 30239      | 59.224    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.569         | 75   | 30239      | 132.136   | ug/l # | 17       |
| -----                         |                |      |            |           |        |          |

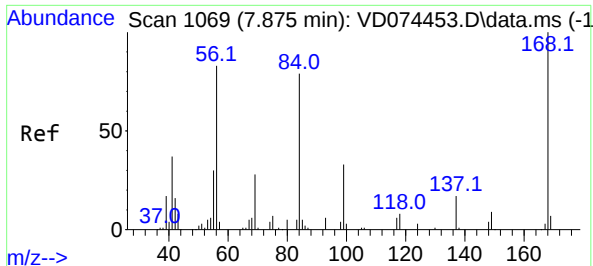
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD101022\  
Data File : VD074501.D  
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Sample : N5058-05  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW5-GW-823-825

Quant Time: Oct 11 08:21:00 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D100522S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 06 01:54:40 2022  
Response via : Initial Calibration

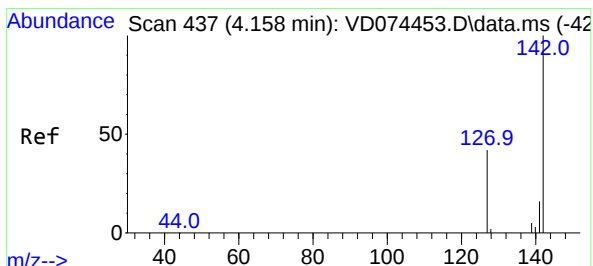
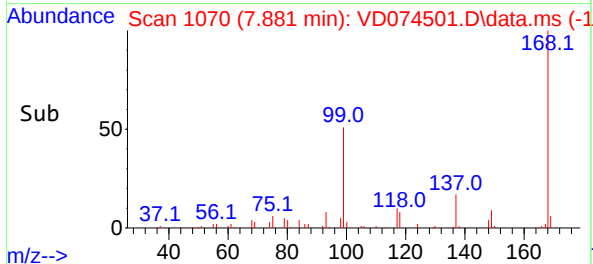
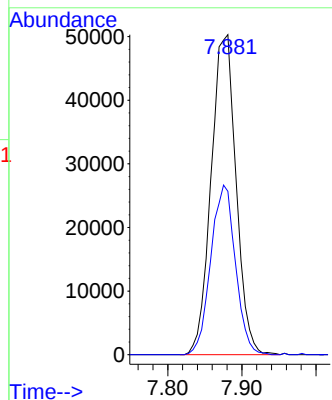
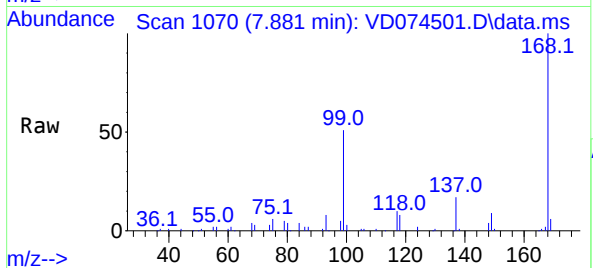




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.881 min Scan# 1069  
Delta R.T. 0.006 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

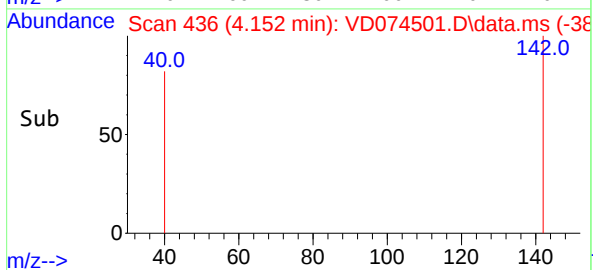
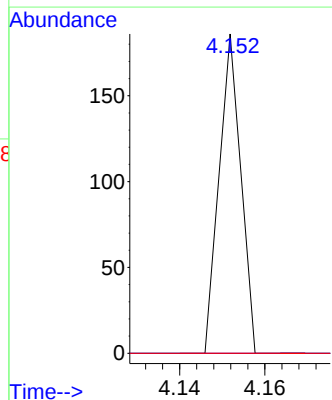
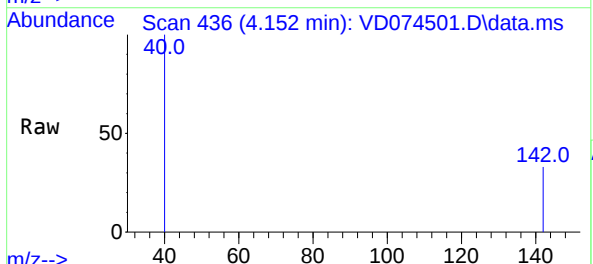
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW5-GW-823-825

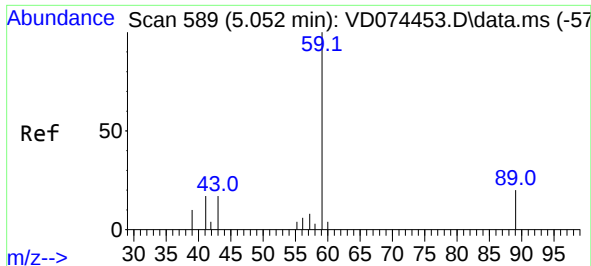
Tgt Ion:168 Resp: 117802  
Ion Ratio Lower Upper  
168 100  
99 51.1 40.9 61.3



#10  
Methyl Iodide  
Concen: 5.847 ug/l  
RT: 4.152 min Scan# 436  
Delta R.T. -0.006 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

Tgt Ion:142 Resp: 66  
Ion Ratio Lower Upper  
142 100  
127 0.0 31.9 47.9#  
141 0.0 11.4 17.2#

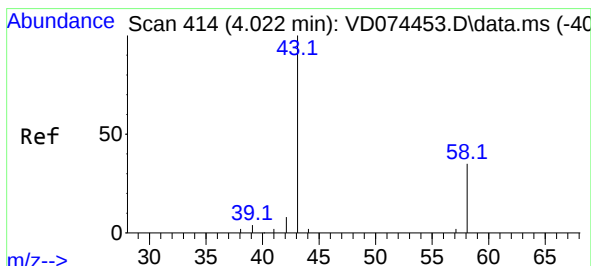
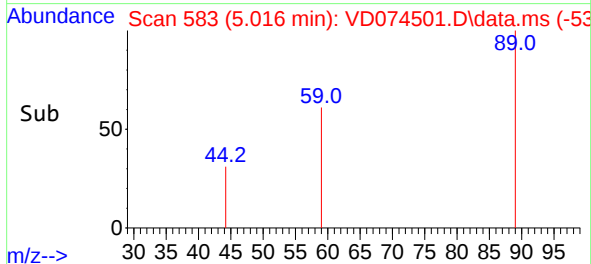
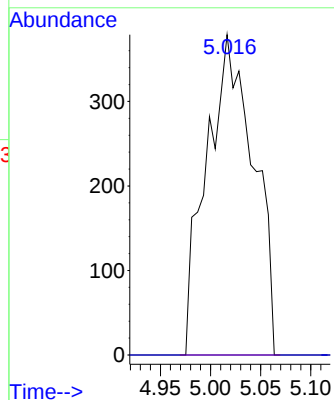
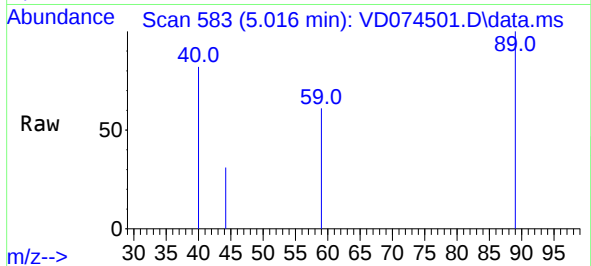




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.016 min Scan# 51  
Delta R.T. -0.036 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

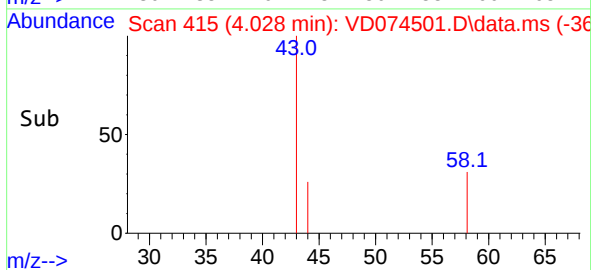
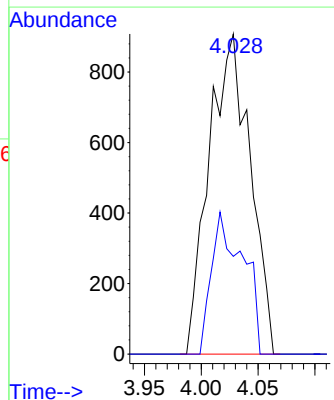
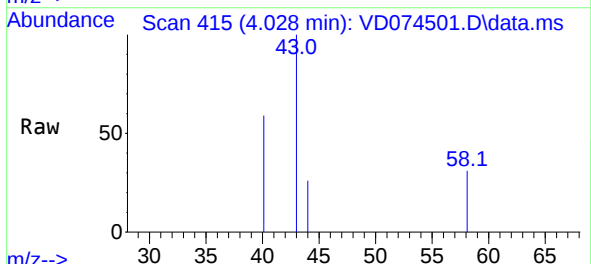
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW5-GW-823-825

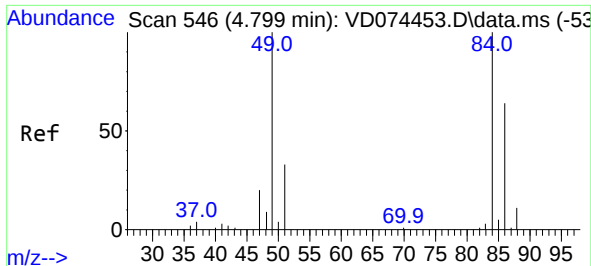
Tgt Ion: 59 Resp: 1235  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.4 6.6#



#16  
Acetone  
Concen: 19.526 ug/l  
RT: 4.028 min Scan# 415  
Delta R.T. 0.006 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

Tgt Ion: 43 Resp: 2285  
Ion Ratio Lower Upper  
43 100  
58 30.5 30.2 45.2



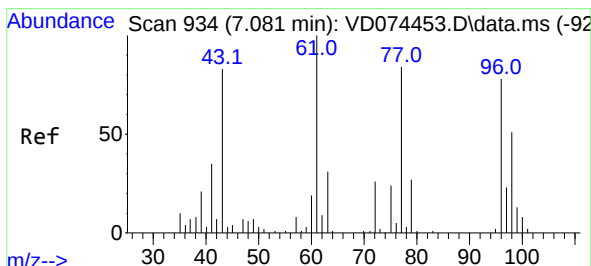
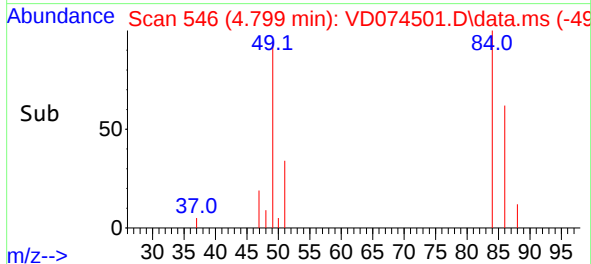
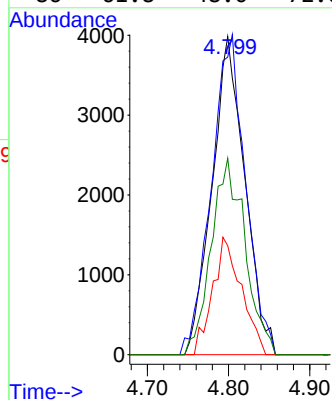
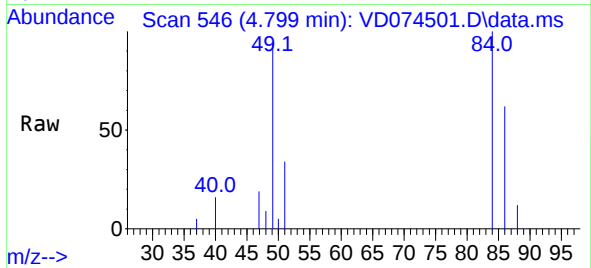


#20  
Methylene Chloride  
Concen: 1.929 ug/l  
RT: 4.799 min Scan# 54  
Delta R.T. -0.000 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW5-GW-823-825

Tgt Ion: 84 Resp: 11169

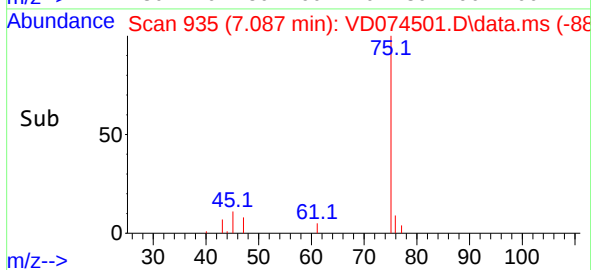
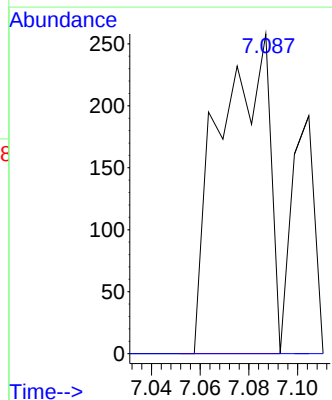
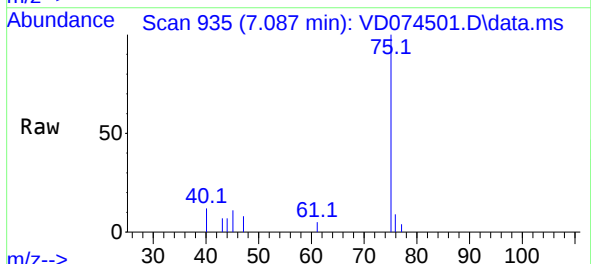
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 93.5  | 68.0  | 102.0 |
| 51  | 34.3  | 23.2  | 34.8  |
| 86  | 61.8  | 48.0  | 72.0  |

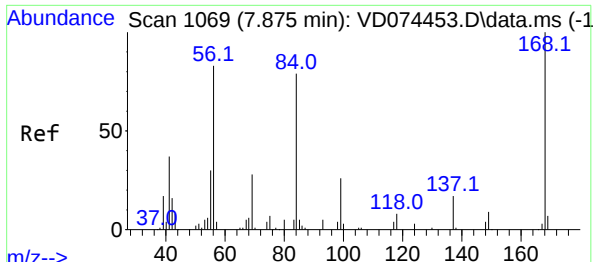


#25  
2-Butanone  
Concen: 1.226 ug/l  
RT: 7.087 min Scan# 935  
Delta R.T. 0.006 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

Tgt Ion: 43 Resp: 368

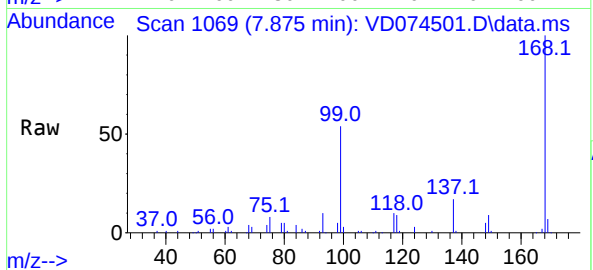
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 25.8  | 38.8# |



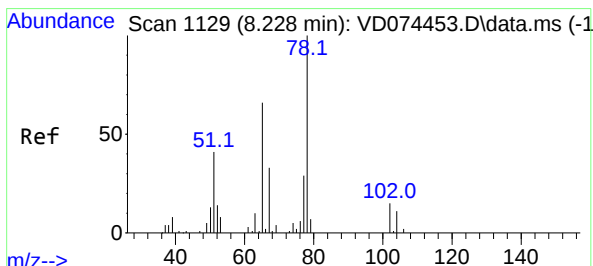
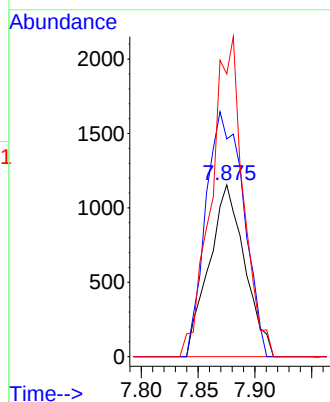
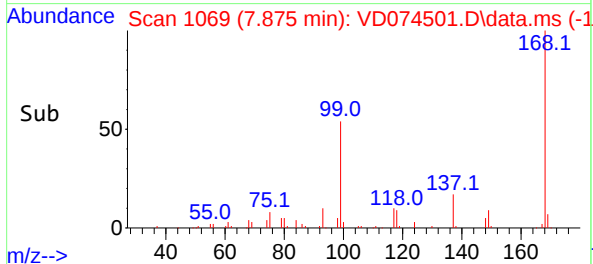


#31  
Cyclohexane  
Concen: 1.197 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

Instrument : MSVOA\_D  
ClientSampleId : BP-VPB-RW5-GW-823-825

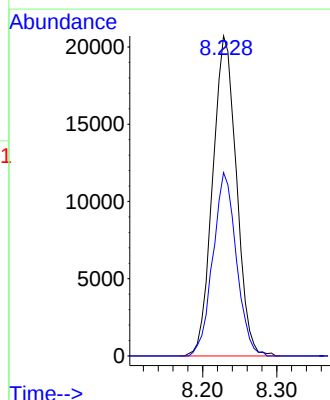
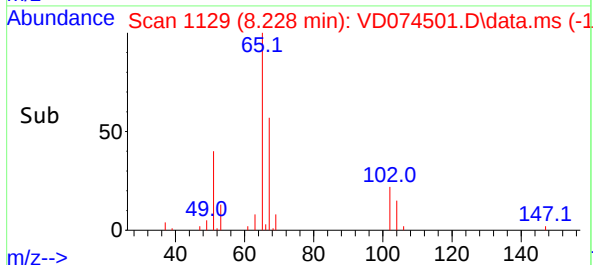
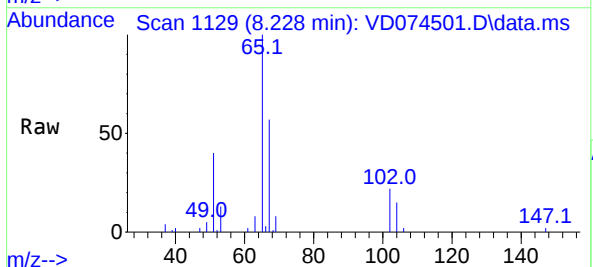


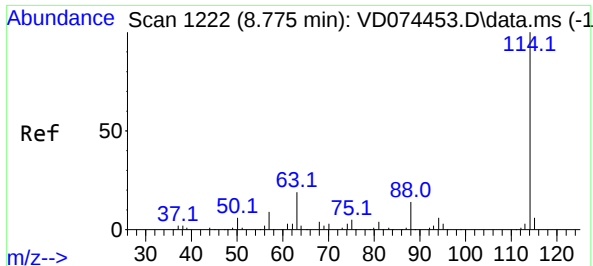
Tgt Ion: 56 Resp: 2517  
Ion Ratio Lower Upper  
56 100  
69 126.8 29.2 43.8#  
84 164.6 83.4 125.2#



#33  
1,2-Dichloroethane-d4  
Concen: 44.053 ug/l  
RT: 8.228 min Scan# 1129  
Delta R.T. 0.000 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

Tgt Ion: 65 Resp: 46107  
Ion Ratio Lower Upper  
65 100  
67 56.7 0.0 110.2

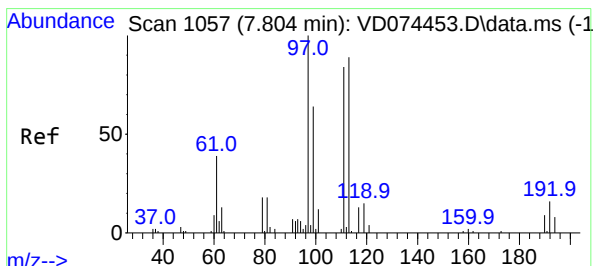
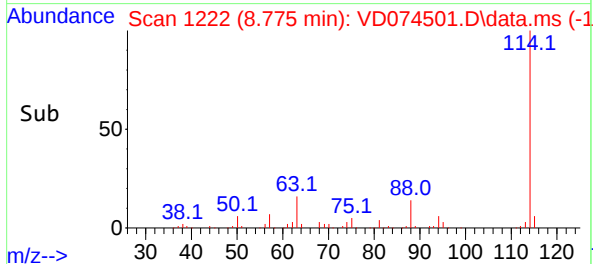
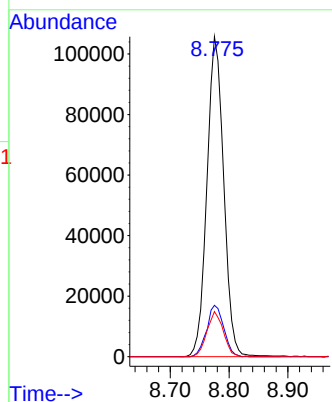
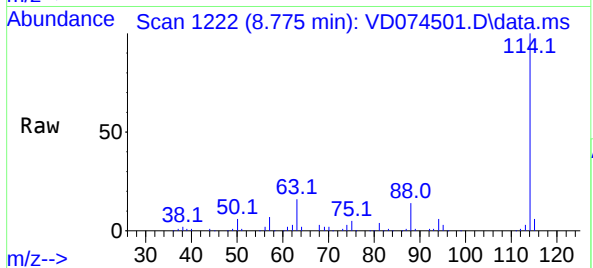




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.775 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

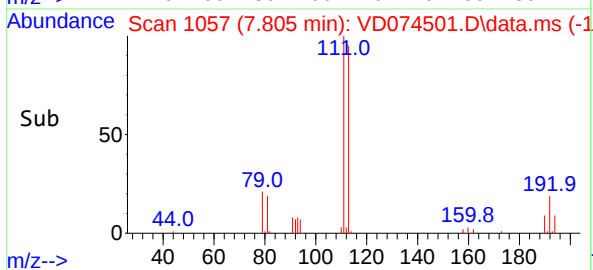
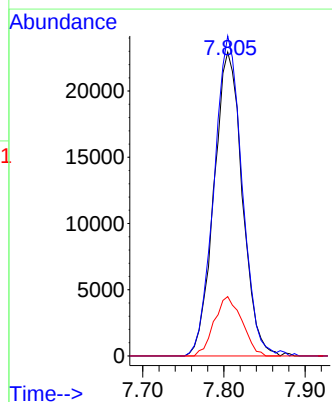
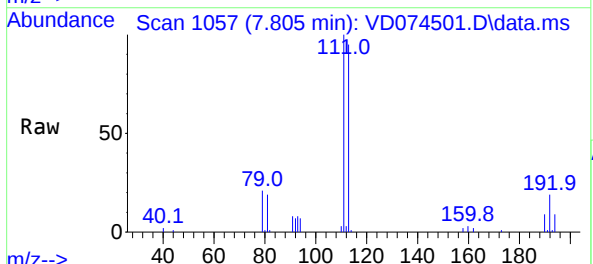
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW5-GW-823-825

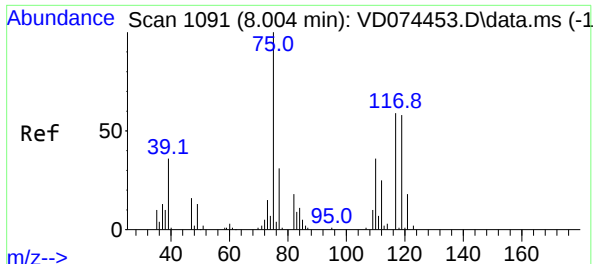
Tgt Ion:114 Resp: 209015  
Ion Ratio Lower Upper  
114 100  
63 16.0 0.0 33.2  
88 14.1 0.0 28.2



#35  
Dibromofluoromethane  
Concen: 40.303 ug/l  
RT: 7.805 min Scan# 1057  
Delta R.T. 0.000 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

Tgt Ion:113 Resp: 55548  
Ion Ratio Lower Upper  
113 100  
111 104.8 82.3 123.5  
192 19.1 16.4 24.6





#36

1,1-Dichloropropene

Concen: 4.394 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.129 min

Lab File: VD074501.D

Acq: 10 Oct 2022 14:33

Instrument :

MSVOA\_D

ClientSampleId :

BP-VPB-RW5-GW-823-825

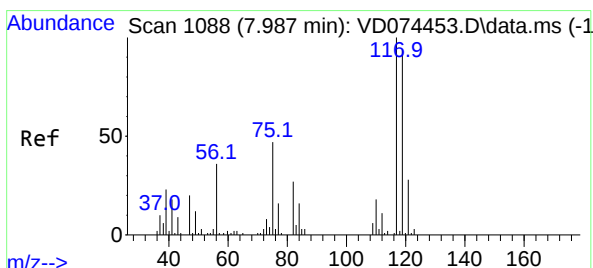
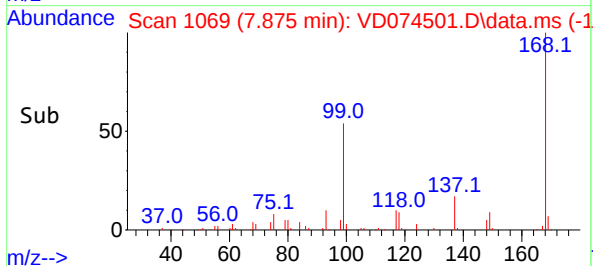
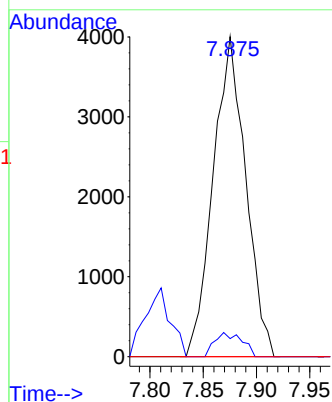
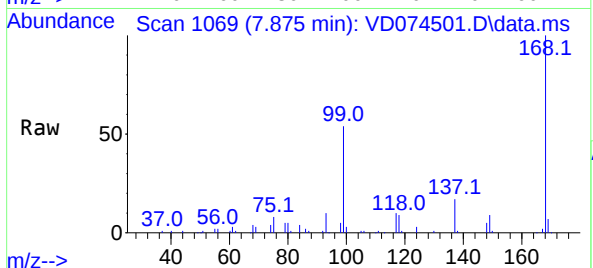
Tgt Ion: 75 Resp: 8501

Ion Ratio Lower Upper

75 100

110 6.4 19.7 59.0#

77 0.0 25.4 38.2#



#38

Carbon Tetrachloride

Concen: 6.732 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.118 min

Lab File: VD074501.D

Acq: 10 Oct 2022 14:33

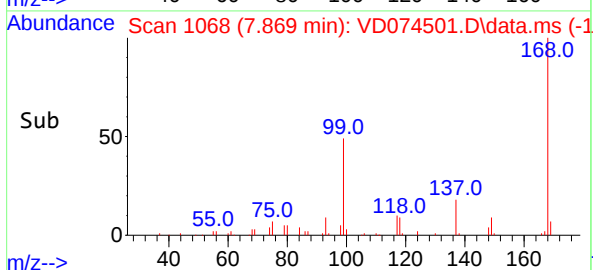
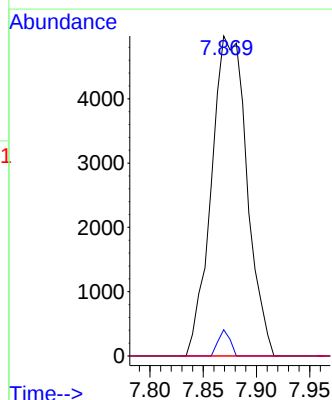
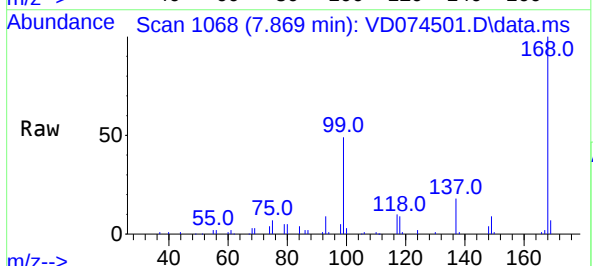
Tgt Ion: 117 Resp: 11541

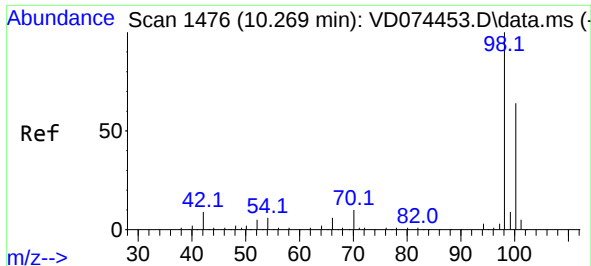
Ion Ratio Lower Upper

117 100

119 8.2 73.1 109.7#

121 0.0 25.0 37.6#

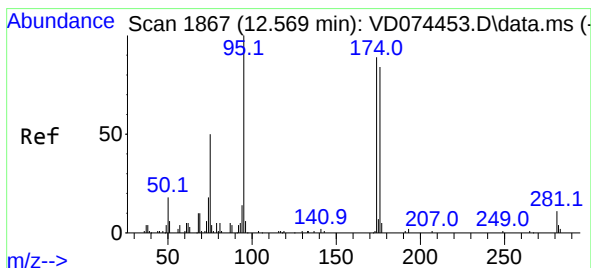
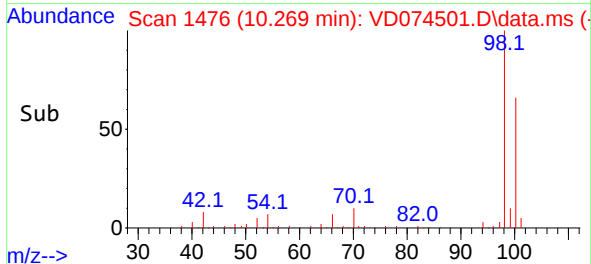
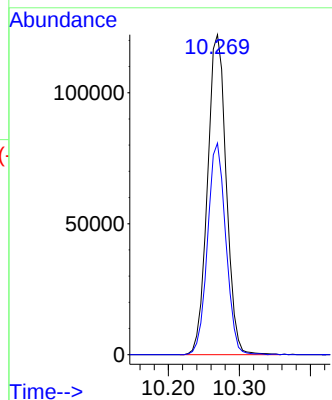
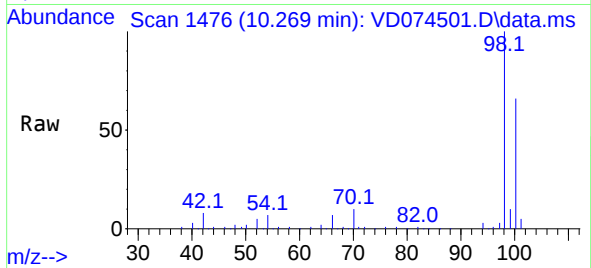




#50  
Toluene-d8  
Concen: 44.760 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

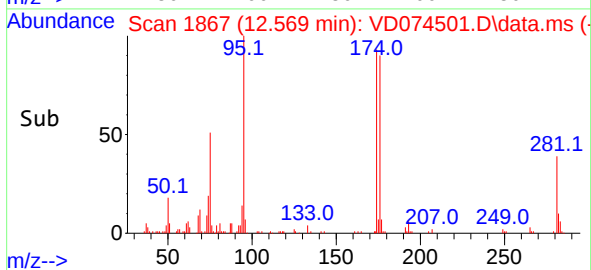
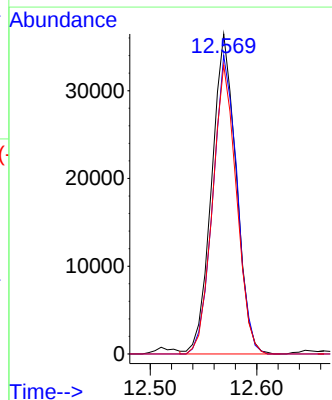
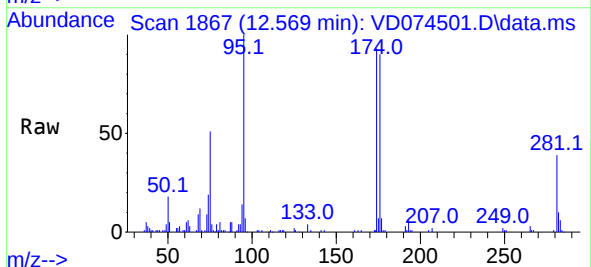
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW5-GW-823-825

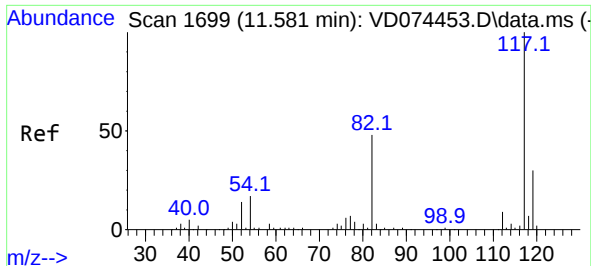
Tgt Ion: 98 Resp: 224342  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.4 77.0



#62  
4-Bromofluorobenzene  
Concen: 35.732 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. 0.000 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

Tgt Ion: 95 Resp: 58333  
Ion Ratio Lower Upper  
95 100  
174 91.3 0.0 197.0  
176 87.8 0.0 182.6

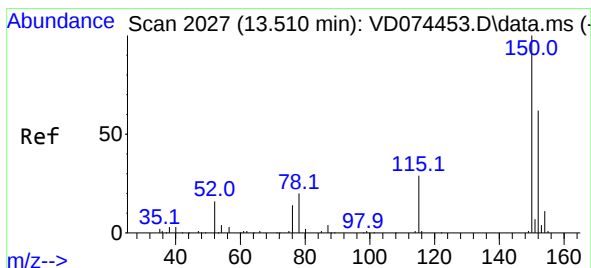
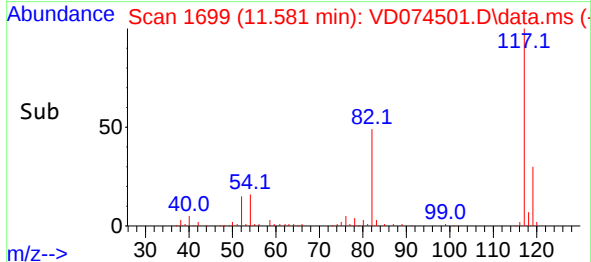
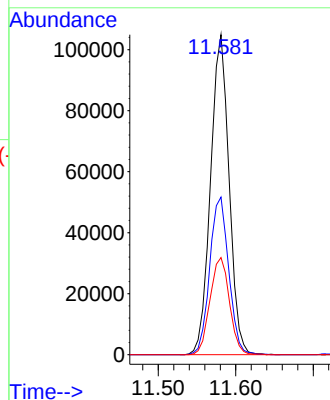
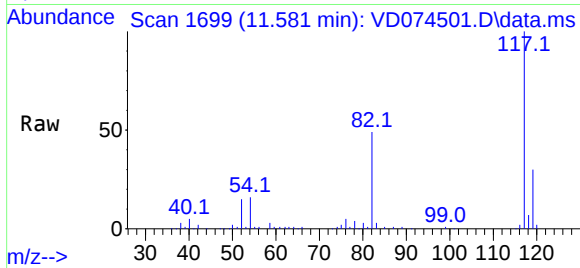




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

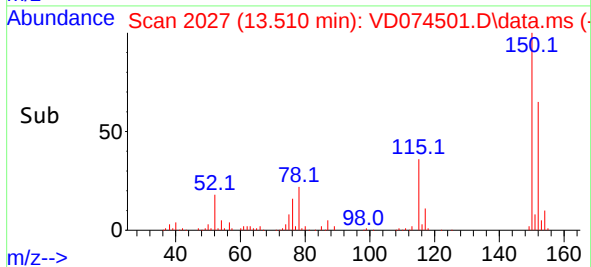
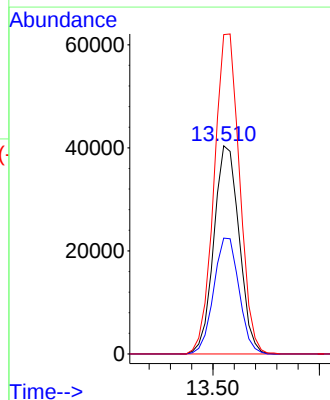
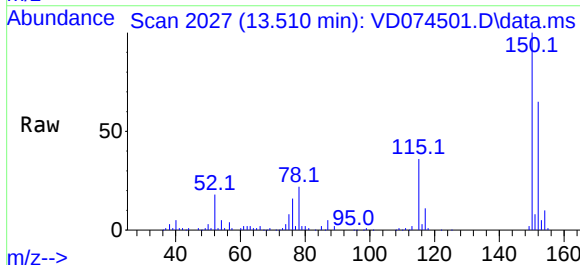
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW5-GW-823-825

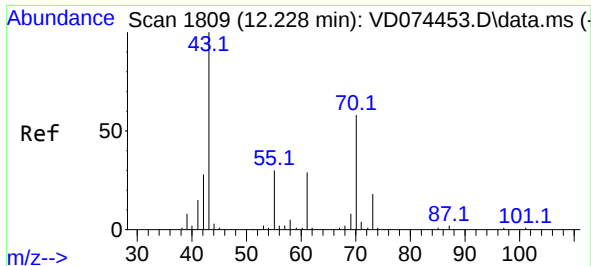
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 174294 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 49.3  | 41.6  | 62.4   |
| 119      | 30.3  | 25.2  | 37.8   |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.510 min Scan# 2027  
Delta R.T. 0.000 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 66514 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 55.9  | 26.8  | 80.4  |
| 150      | 154.5 | 0.0   | 348.2 |

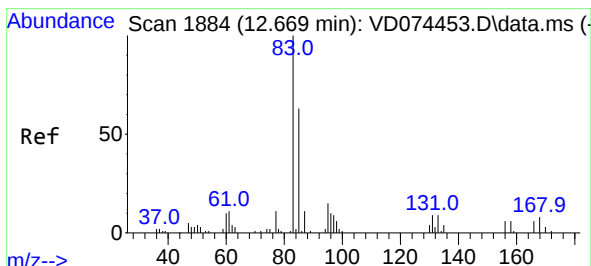
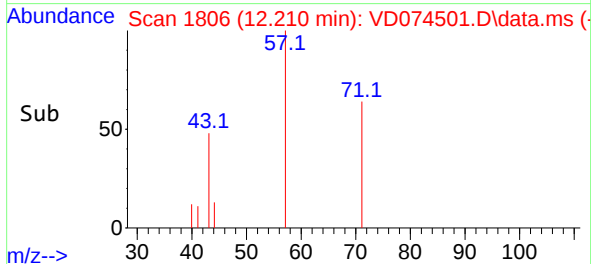
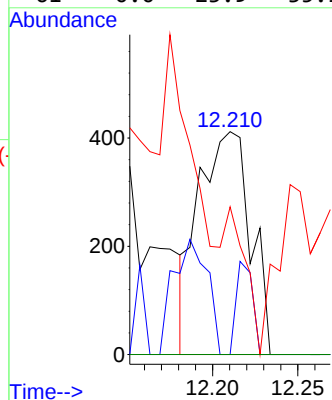
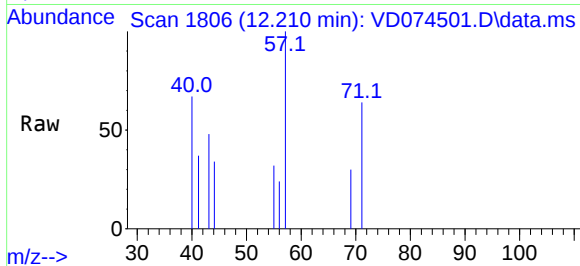




#74  
N-amy1 acetate  
Concen: 1.042 ug/l  
RT: 12.210 min Scan# 1806  
Delta R.T. -0.018 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

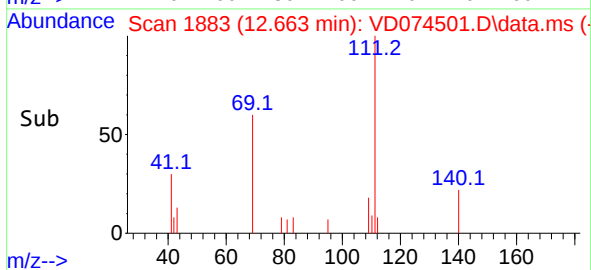
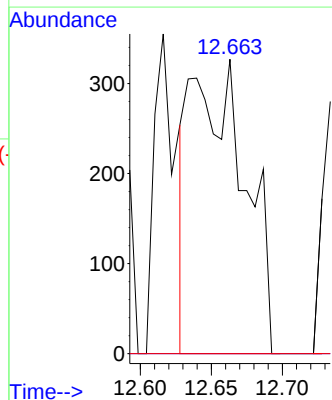
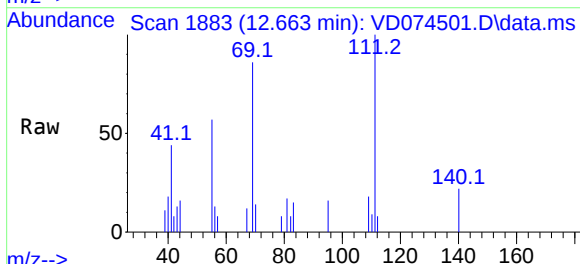
Instrument : MSVOA\_D  
ClientSampleId : BP-VPB-RW5-GW-823-825

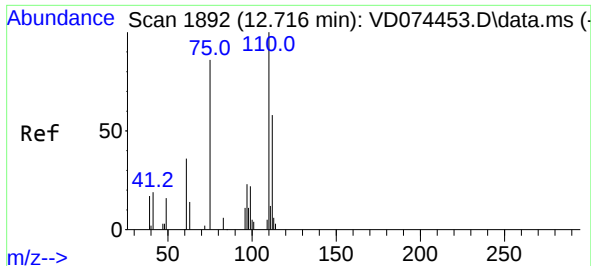
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 43 | Resp: | 872   |       |
| Ion         | Ratio | Lower | Upper |
| 43          | 100   |       |       |
| 70          | 13.1  | 43.8  | 65.6# |
| 55          | 0.0   | 22.0  | 33.0# |
| 61          | 0.0   | 23.9  | 35.9# |



#75  
1,1,2,2-Tetrachloroethane  
Concen: 1.055 ug/l  
RT: 12.663 min Scan# 1883  
Delta R.T. -0.006 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

|             |       |       |  |
|-------------|-------|-------|--|
| Tgt Ion: 83 | Resp: | 858   |  |
| Ion Ratio   | Lower | Upper |  |
| 83 100      |       |       |  |
| 131 0.0     | 4.7   | 14.1# |  |
| 85 0.0      | 33.1  | 99.2# |  |

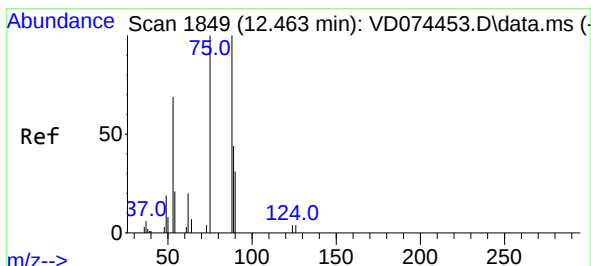
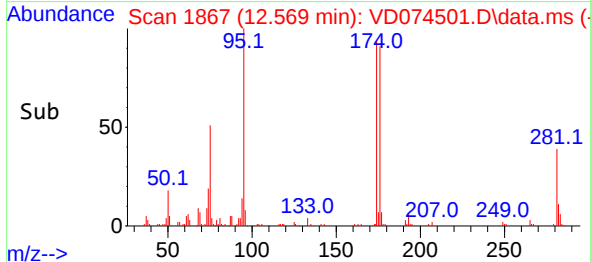
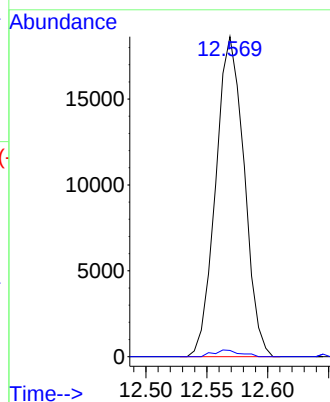
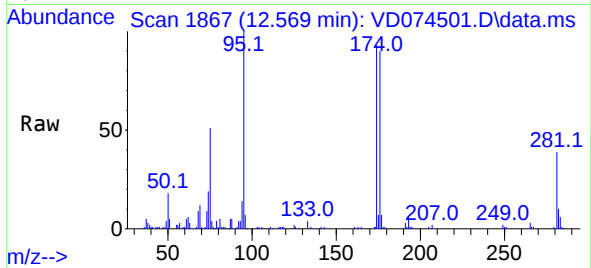




#76  
1,2,3-Trichloropropane  
Concen: 59.224 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.147 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW5-GW-823-825

Tgt Ion: 75 Resp: 30239  
Ion Ratio Lower Upper  
75 100  
77 1.9 185.8 557.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 132.136 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. 0.106 min  
Lab File: VD074501.D  
Acq: 10 Oct 2022 14:33

Tgt Ion: 75 Resp: 30239  
Ion Ratio Lower Upper  
75 100  
53 0.2 63.8 95.6#  
89 0.0 38.2 57.4#

