

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021924\  
 Data File : VD078463.D  
 Acq On : 19 Feb 2024 15:02  
 Operator : RP/MD  
 Sample : P1509-08  
 Misc : 5.02G/7ml/MSVOA\_D/SOIL/A  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB-191-GW-858-860

Quant Time: Feb 20 00:53:24 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021324S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 14 01:16:20 2024  
 Response via : Initial Calibration

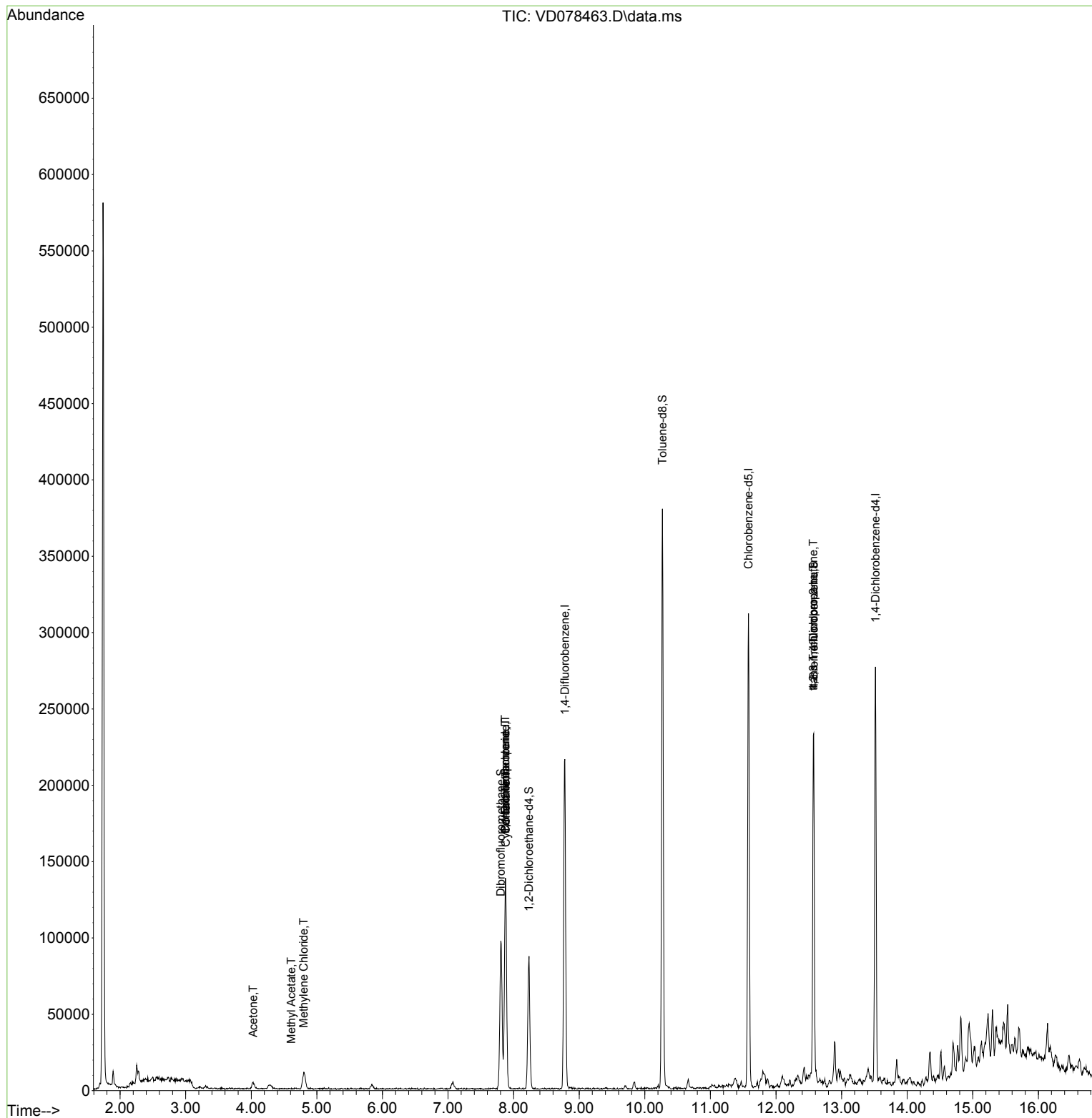
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.875  | 168   | 107290   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 202882   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 188323   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 74061    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 64878    | 55.926    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 111.860% |          |
| 35) Dibromofluoromethane      | 7.805  | 113   | 71550    | 55.519    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 111.040% |          |
| 50) Toluene-d8                | 10.269 | 98    | 262787   | 50.974    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 101.940% |          |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 70999    | 47.326    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 94.660%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 11) Tert butyl alcohol        | 5.064  | 59    | 156      | Below Cal | #          | 73       |
| 16) Acetone                   | 4.028  | 43    | 7336     | 10.150    | ug/l       | 94       |
| 18) Methyl Acetate            | 4.611  | 43    | 54       | 4.000     | ug/l #     | 42       |
| 20) Methylene Chloride        | 4.799  | 84    | 8790     | 3.836     | ug/l       | 91       |
| 23) Vinyl Acetate             | 6.122  | 43    | 58       | Below Cal | #          | 63       |
| 25) 2-Butanone                | 7.081  | 43    | 441      | Below Cal | #          | 70       |
| 31) Cyclohexane               | 7.881  | 56    | 2537     | 1.293     | ug/l #     | 73       |
| 36) 1,1-Dichloropropene       | 7.875  | 75    | 8855     | 4.423     | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 10986    | 5.541     | ug/l #     | 15       |
| 76) 1,2,3-Trichloropropane    | 12.569 | 75    | 37063    | 58.947    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.569 | 75    | 37063    | 122.374   | ug/l #     | 18       |
| -----                         |        |       |          |           |            |          |

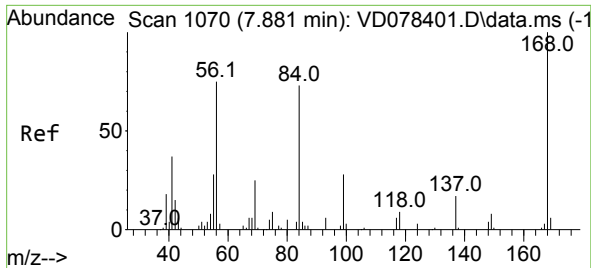
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021924\  
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Sample : P1509-08  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-191-GW-858-860

Quant Time: Feb 20 00:53:24 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021324S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 14 01:16:20 2024  
Response via : Initial Calibration

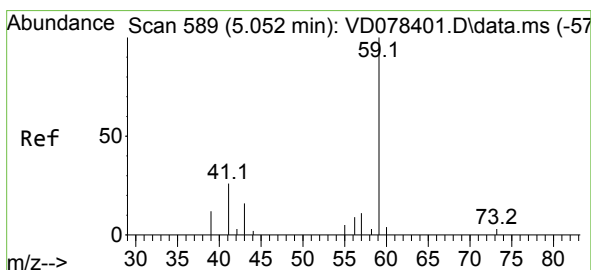
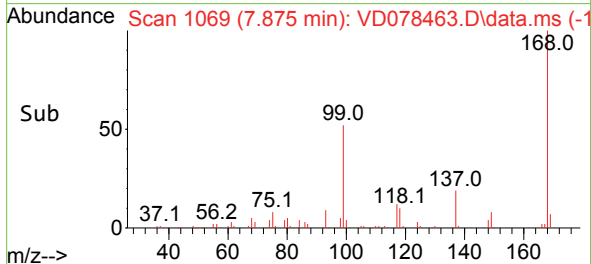
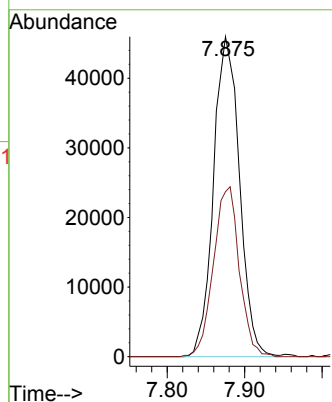
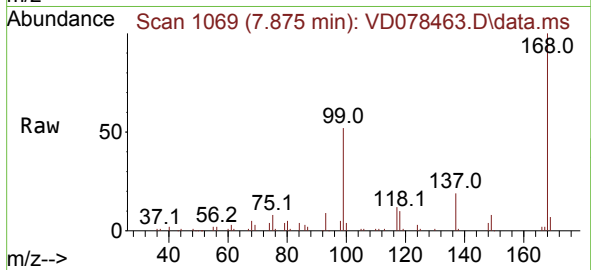




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.006 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

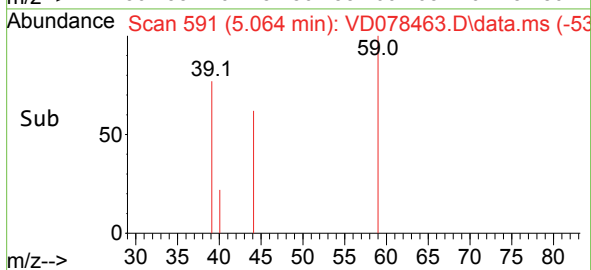
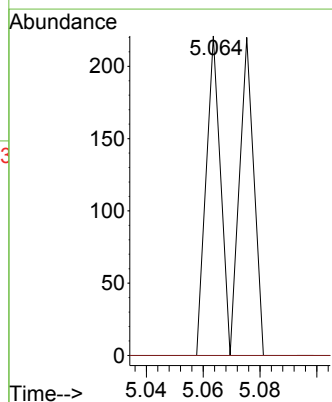
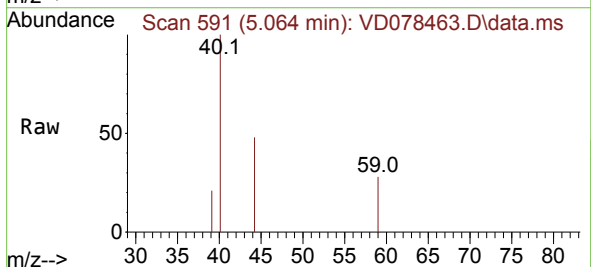
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-191-GW-858-860

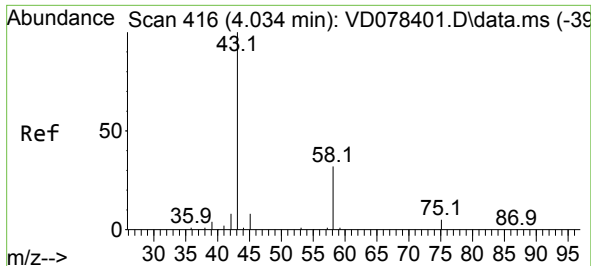
Tgt Ion:168 Resp: 107290  
Ion Ratio Lower Upper  
168 100  
99 51.5 36.7 55.1



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.064 min Scan# 591  
Delta R.T. 0.012 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

Tgt Ion: 59 Resp: 156  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

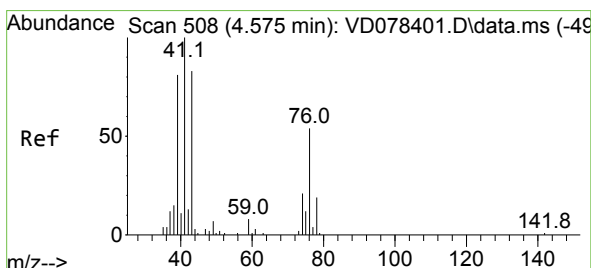
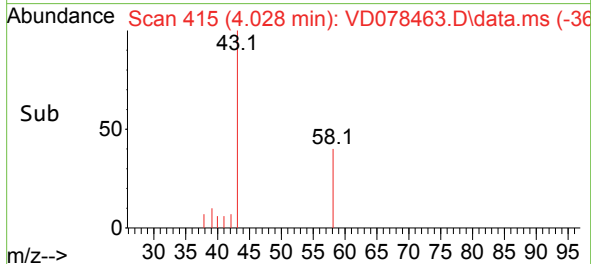
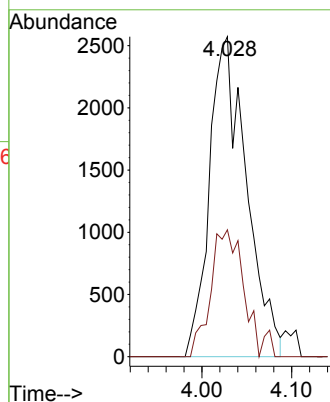
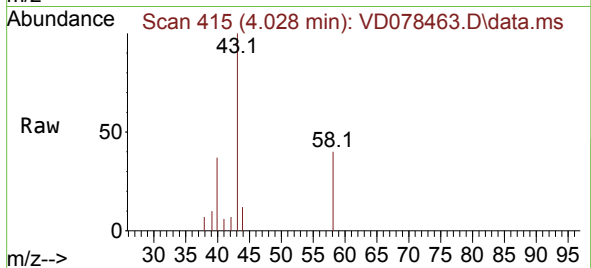




#16  
Acetone  
Concen: 10.150 ug/l  
RT: 4.028 min Scan# 416  
Delta R.T. -0.006 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

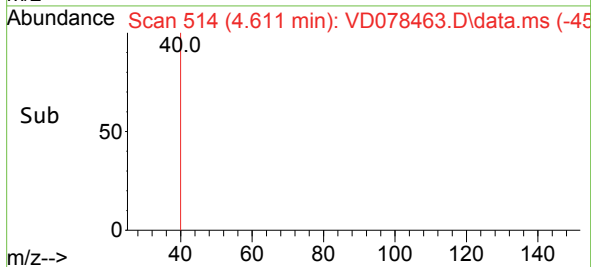
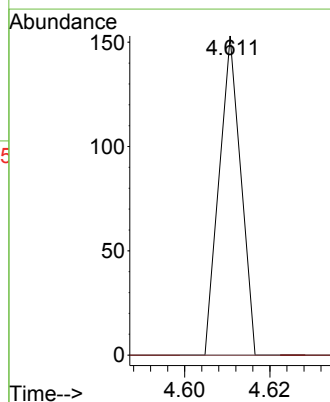
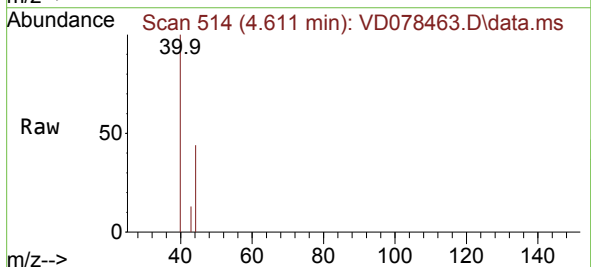
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-191-GW-858-860

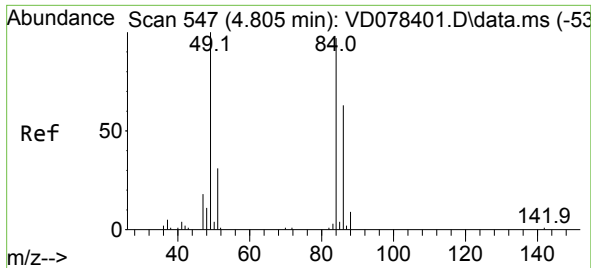
Tgt Ion: 43 Resp: 7336  
Ion Ratio Lower Upper  
43 100  
58 39.7 34.7 52.1



#18  
Methyl Acetate  
Concen: 4.000 ug/l  
RT: 4.611 min Scan# 514  
Delta R.T. 0.036 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

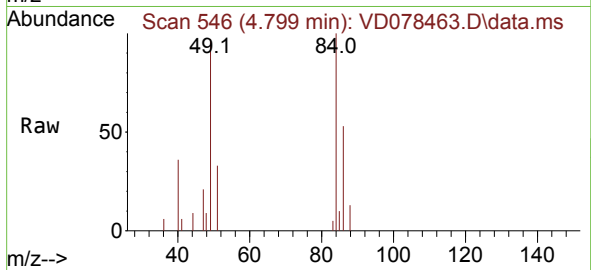
Tgt Ion: 43 Resp: 54  
Ion Ratio Lower Upper  
43 100  
74 0.0 26.4 39.6#



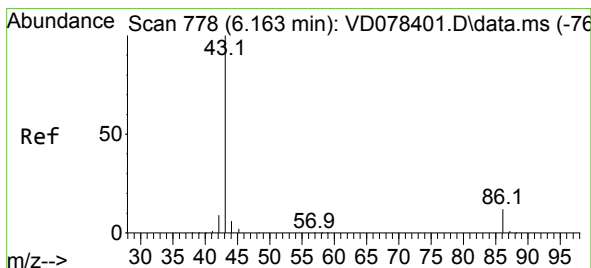
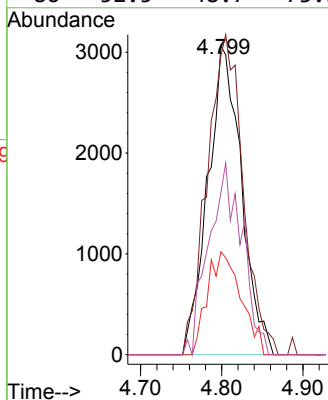
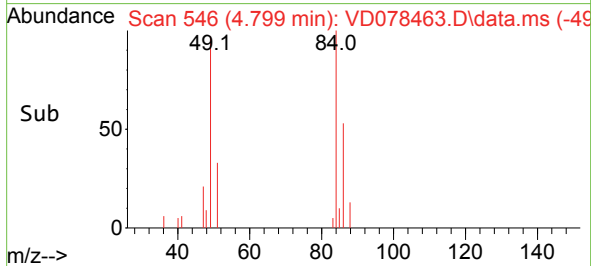


#20  
Methylene Chloride  
Concen: 3.836 ug/l  
RT: 4.799 min Scan# 547  
Delta R.T. -0.006 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-191-GW-858-860

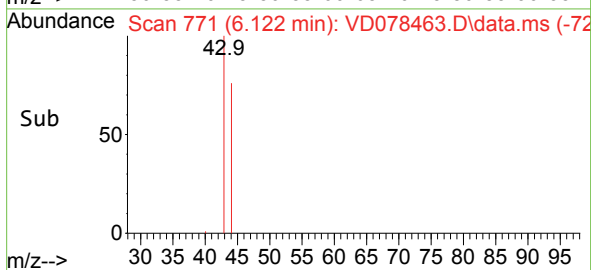
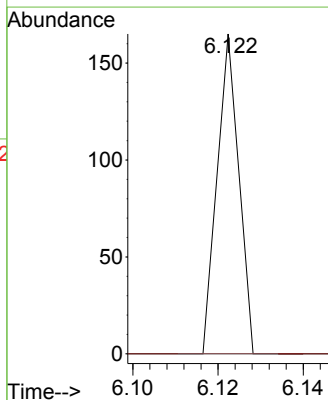
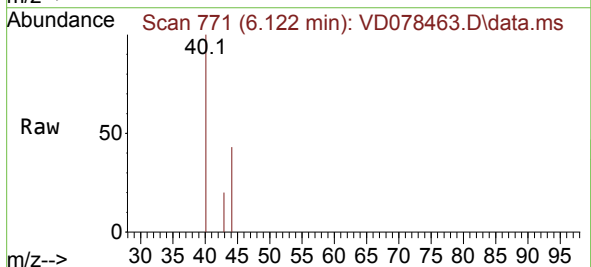


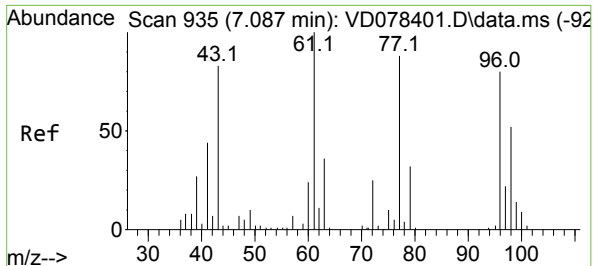
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 8790  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 96.9     | 71.4 107.2  |
| 51 33.3     | 24.5 36.7   |
| 86 52.5     | 48.7 73.1   |



#23  
Vinyl Acetate  
Concen: Below Cal  
RT: 6.122 min Scan# 771  
Delta R.T. -0.041 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

|             |          |       |  |
|-------------|----------|-------|--|
| Tgt Ion: 43 | Resp: 58 |       |  |
| Ion Ratio   | Lower    | Upper |  |
| 43 100      |          |       |  |
| 86 0.0      | 12.5     | 18.7# |  |





#25

2-Butanone

Concen: Below Cal

RT: 7.081 min Scan# 91

Delta R.T. -0.006 min

Lab File: VD078463.D

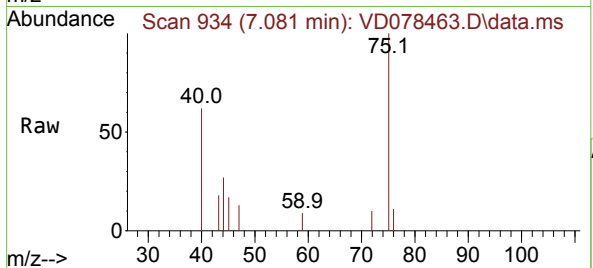
Acq: 19 Feb 2024 15:02

Instrument :

MSVOA\_D

ClientSampleId :

BP-VPB-191-GW-858-860

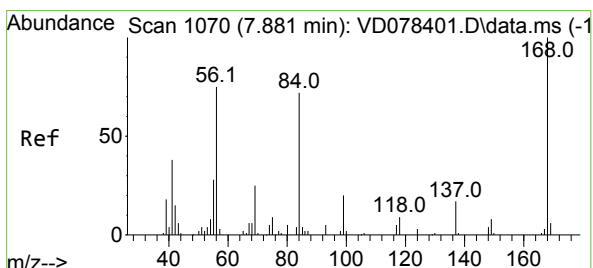
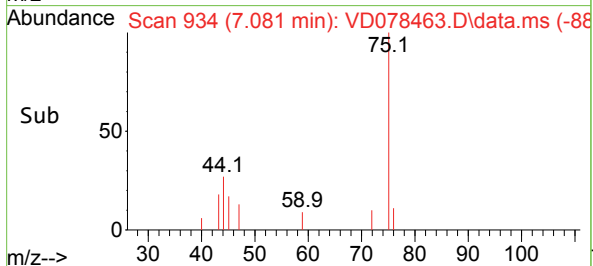
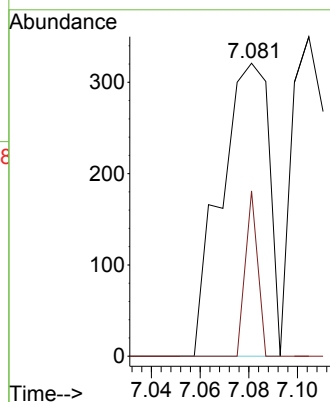


Tgt Ion: 43 Resp: 441

Ion Ratio Lower Upper

43 100

72 56.4 30.7 46.1#



#31

Cyclohexane

Concen: 1.293 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. 0.000 min

Lab File: VD078463.D

Acq: 19 Feb 2024 15:02

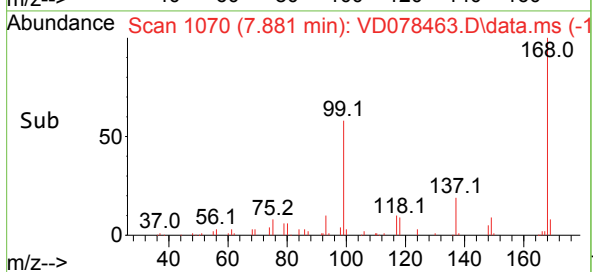
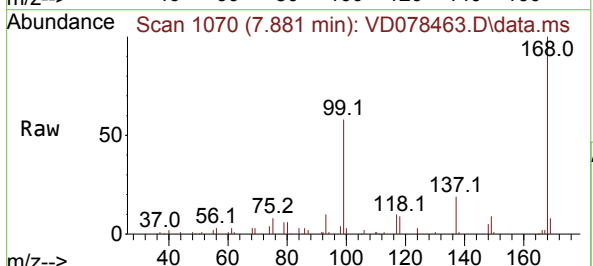
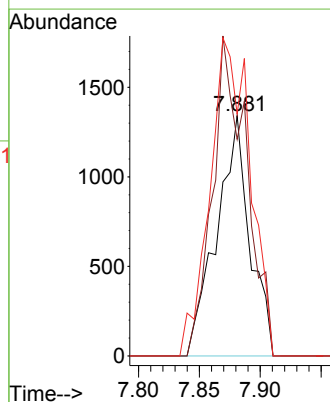
Tgt Ion: 56 Resp: 2537

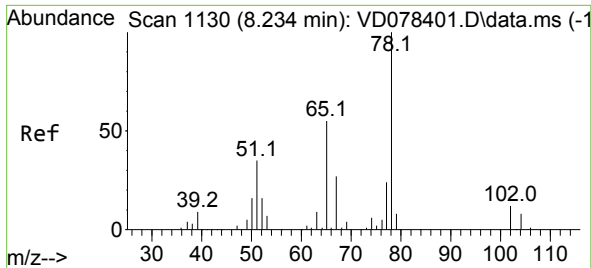
Ion Ratio Lower Upper

56 100

69 90.2 28.6 43.0#

84 100.7 84.8 127.2

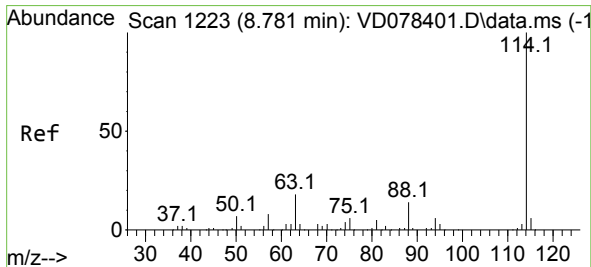
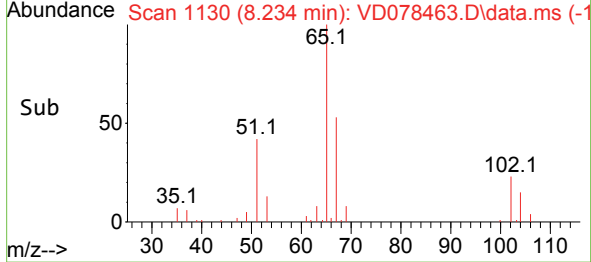
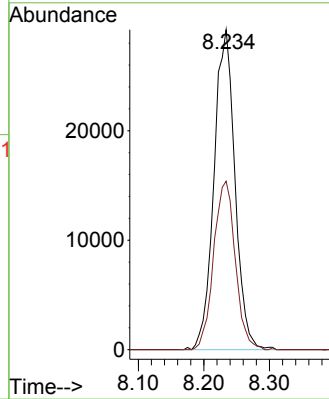
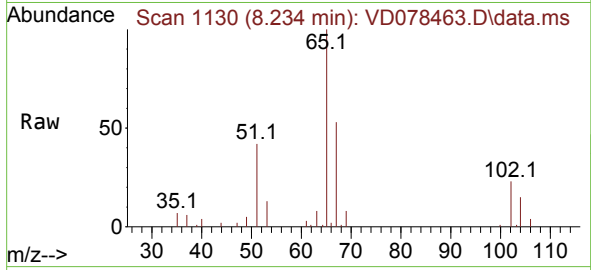




#33  
1,2-Dichloroethane-d4  
Concen: 55.926 ug/l  
RT: 8.234 min Scan# 1130  
Delta R.T. 0.000 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

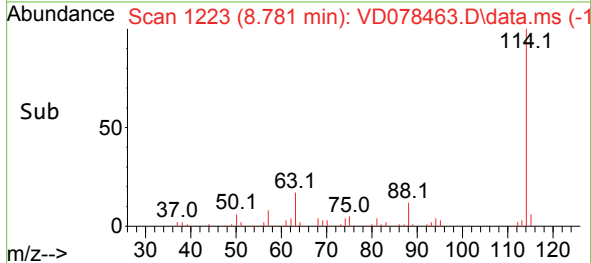
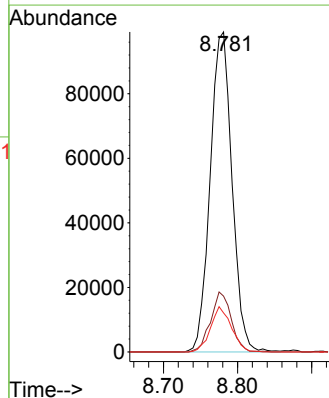
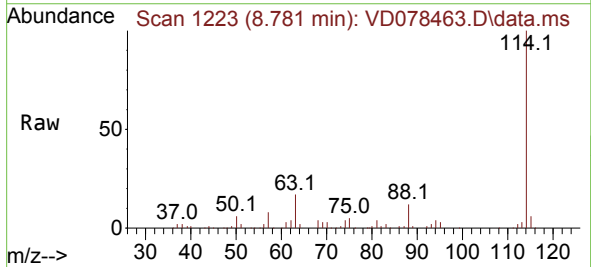
Instrument :  
MSVOA\_D  
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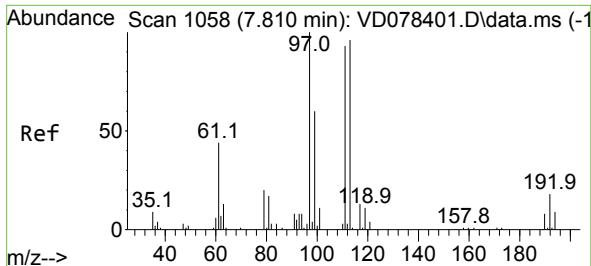
Tgt Ion: 65 Resp: 64878  
Ion Ratio Lower Upper  
65 100  
67 54.2 0.0 115.0



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.781 min Scan# 1223  
Delta R.T. 0.000 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

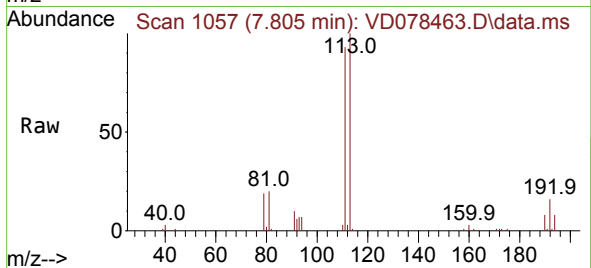
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Ion Ratio Lower Upper  
114 100  
63 17.5 0.0 33.4  
88 12.2 0.0 26.2



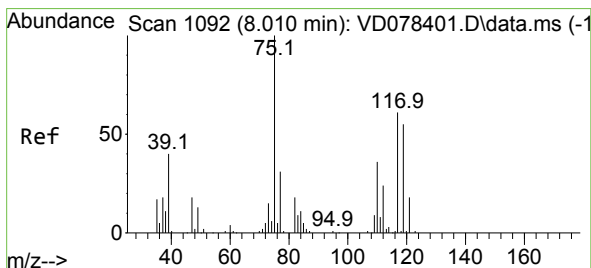
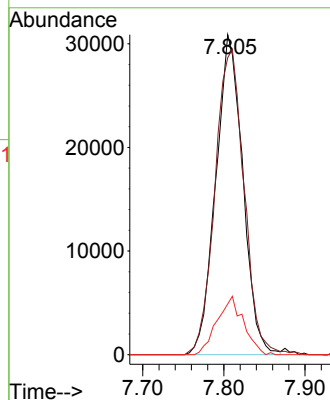
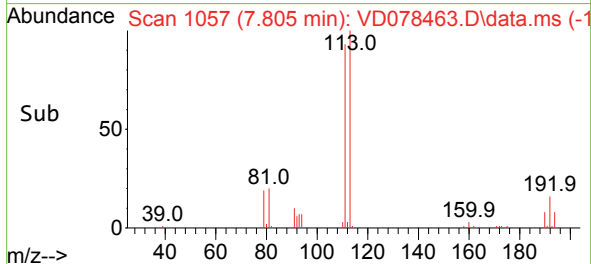


#35  
Dibromofluoromethane  
Concen: 55.519 ug/l  
RT: 7.805 min Scan# 1057  
Delta R.T. -0.006 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-191-GW-858-860

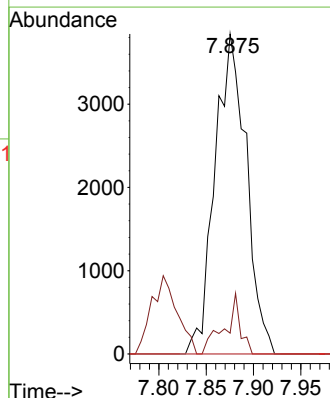
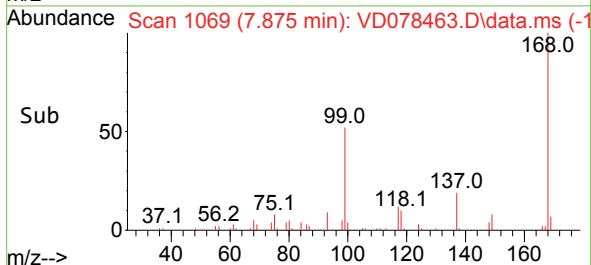
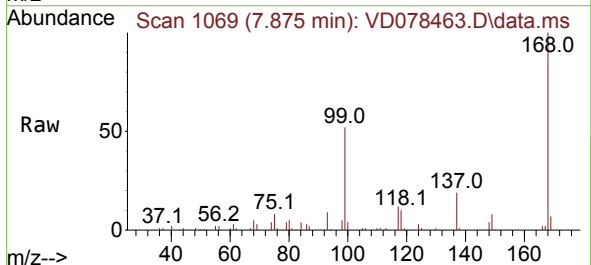


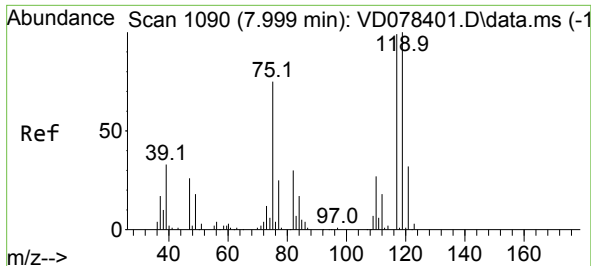
Tgt Ion:113 Resp: 71550  
Ion Ratio Lower Upper  
113 100  
111 102.5 84.7 127.1  
192 17.8 16.8 25.2



#36  
1,1-Dichloropropene  
Concen: 4.423 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.135 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

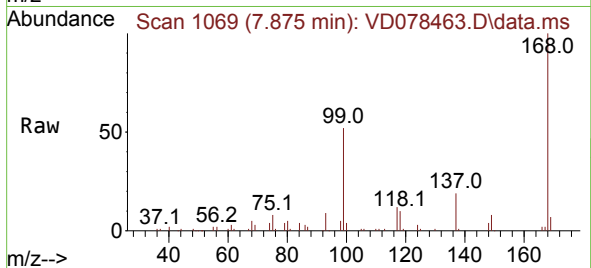
Tgt Ion: 75 Resp: 8855  
Ion Ratio Lower Upper  
75 100  
110 9.5 19.9 59.6#  
77 0.0 24.7 37.1#



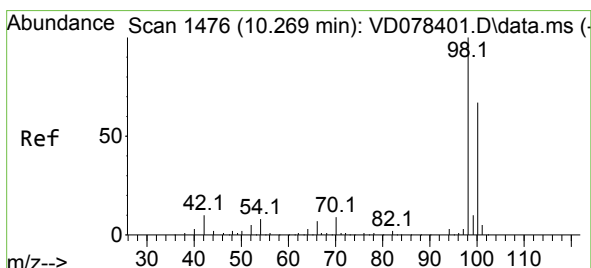
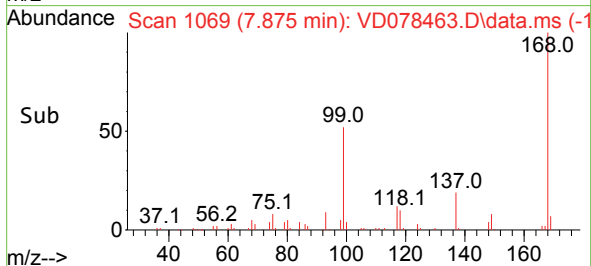
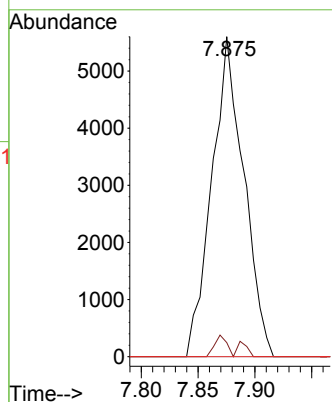


#38  
Carbon Tetrachloride  
Concen: 5.541 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.123 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

Instrument : MSVOA\_D  
ClientSampleId : BP-VPB-191-GW-858-860

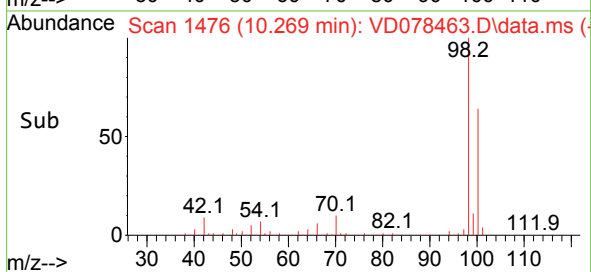
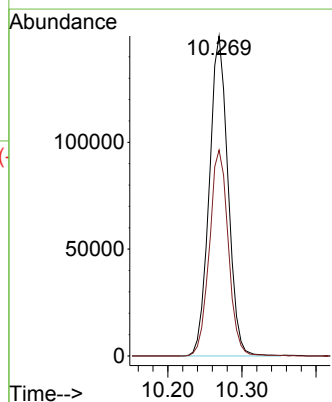
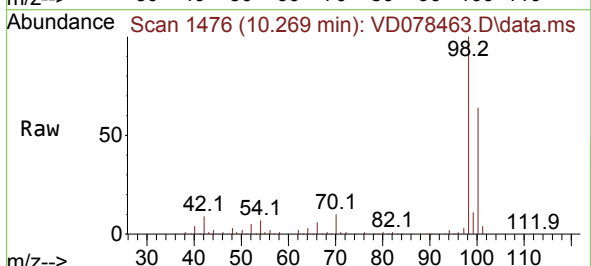


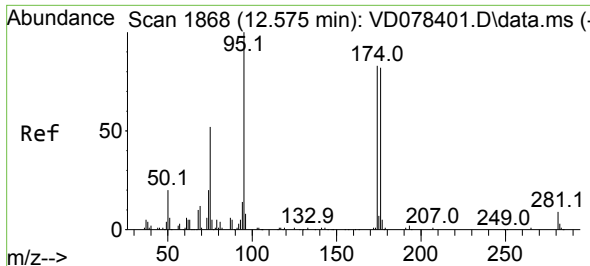
Tgt Ion: 117 Resp: 10986  
Ion Ratio Lower Upper  
117 100  
119 4.4 78.0 117.0#  
121 0.0 24.2 36.2#



#50  
Toluene-d8  
Concen: 50.974 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

Tgt Ion: 98 Resp: 262787  
Ion Ratio Lower Upper  
98 100  
100 64.8 50.3 75.5

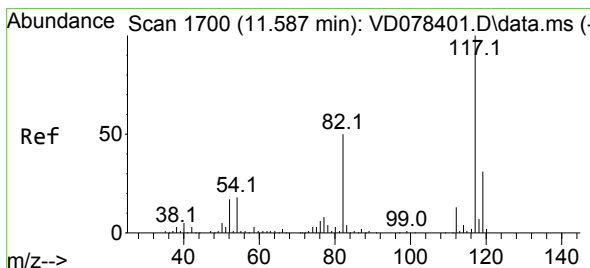
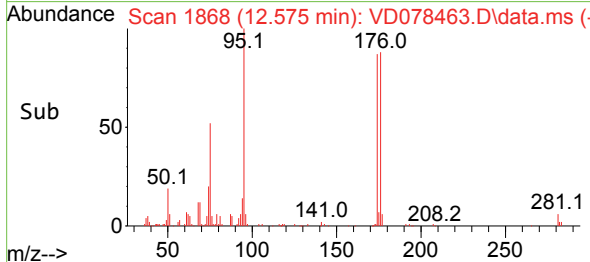
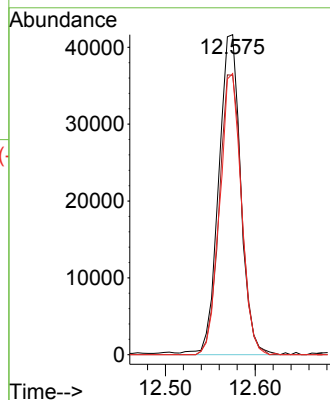
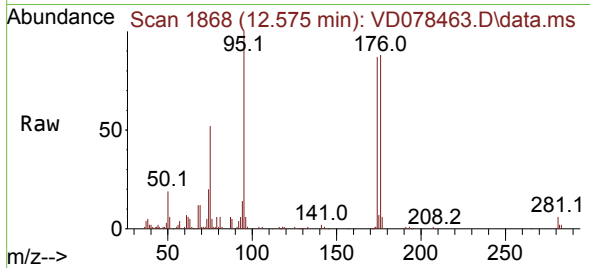




#62  
4-Bromofluorobenzene  
Concen: 47.326 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.000 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

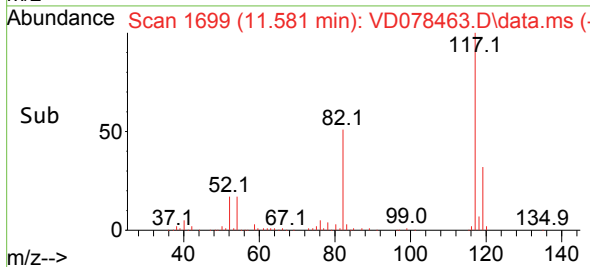
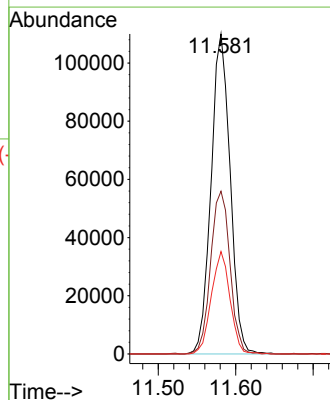
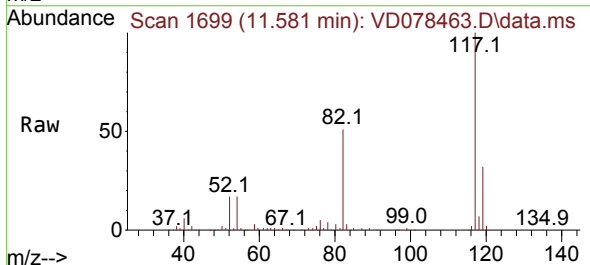
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-191-GW-858-860

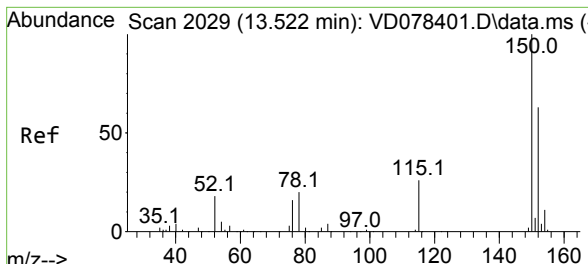
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 95    | Resp: | 70999 |
| Ion Ratio | Lower | Upper |       |
| 95        | 100   |       |       |
| 174       | 88.3  | 0.0   | 201.8 |
| 176       | 85.8  | 0.0   | 191.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.006 min  
Lab File: VD078463.D  
Acq: 19 Feb 2024 15:02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 188323 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 50.9  | 38.3  | 57.5   |
| 119       | 32.0  | 25.0  | 37.4   |

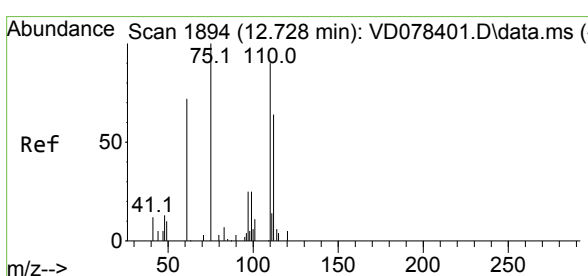
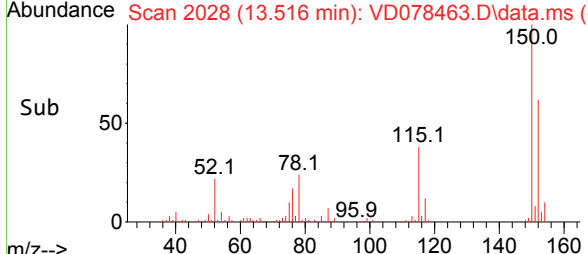
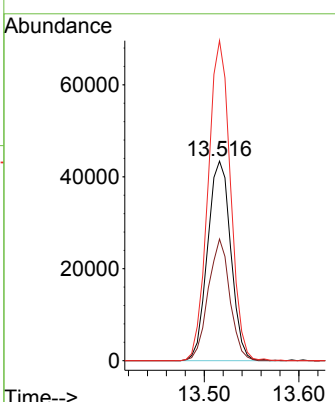
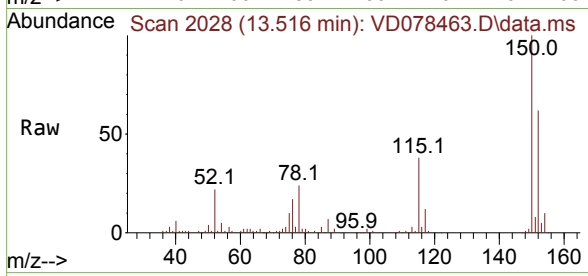




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.516 min Scan# 20  
 Delta R.T. -0.006 min  
 Lab File: VD078463.D  
 Acq: 19 Feb 2024 15:02

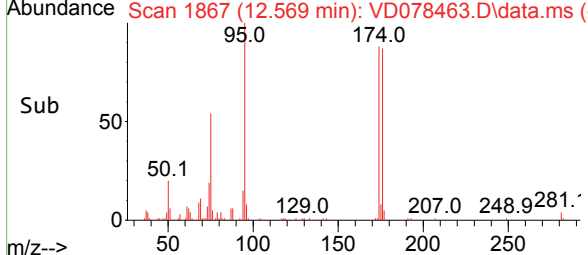
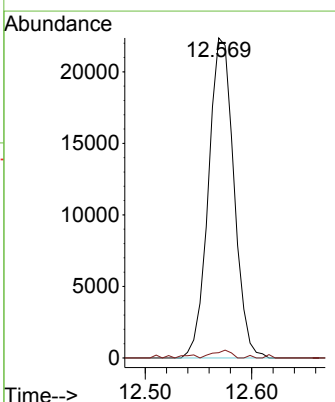
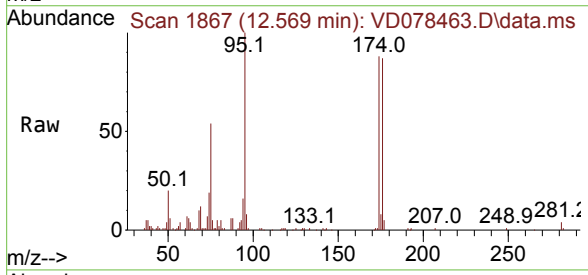
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB-191-GW-858-860

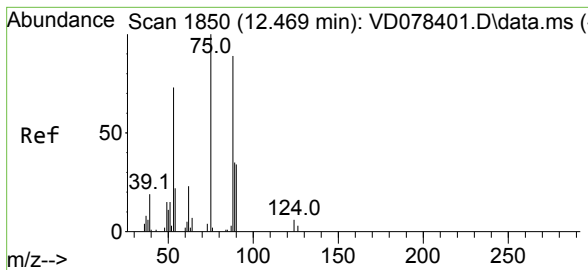
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 74061 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 115       | 56.9  | 27.1  | 81.3  |
| 150       | 154.9 | 0.0   | 353.6 |



#76  
 1,2,3-Trichloropropane  
 Concen: 58.947 ug/l  
 RT: 12.569 min Scan# 1867  
 Delta R.T. -0.159 min  
 Lab File: VD078463.D  
 Acq: 19 Feb 2024 15:02

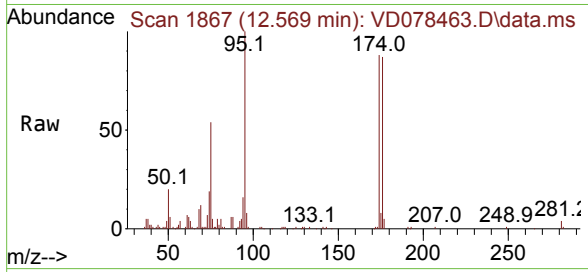
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 37063 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 77        | 1.7   | 0.0   | 0.0#  |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 122.374 ug/l  
 RT: 12.569 min Scan# 11  
 Delta R.T. 0.100 min  
 Lab File: VD078463.D  
 Acq: 19 Feb 2024 15:02

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB-191-GW-858-860



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 37063 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 0.4   | 63.0  | 94.4# |
| 89       | 0.0   | 37.9  | 56.9# |

