

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD080124\  
 Data File : VD079534.D  
 Acq On : 01 Aug 2024 19:13  
 Operator : RP/MD  
 Sample : P3374-13  
 Misc : 6.51G/5.0ml/MSVOA\_D/SOIL/B  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S-847-G1-SO-2.5-3.0-072024RE

Quant Time: Aug 02 01:32:41 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072924S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:50:47 2024  
 Response via : Initial Calibration

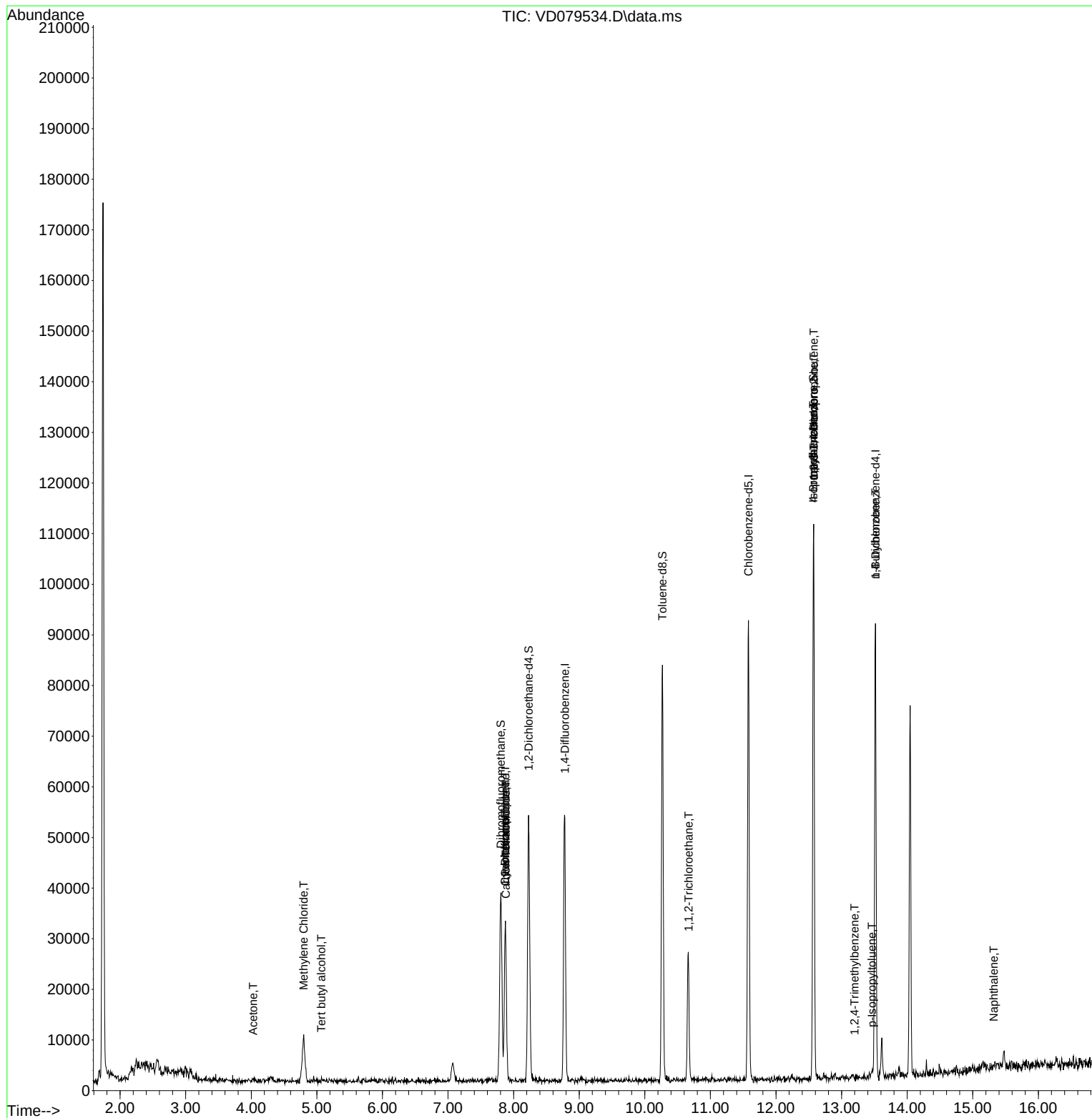
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|-----------|--------|-----------|
| -----                         |        |       |          |           |        |           |
| Internal Standards            |        |       |          |           |        |           |
| 1) Pentafluorobenzene         | 7.875  | 168   | 25710    | 50.000    | ug/l   | 0.00      |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 50587    | 50.000    | ug/l   | 0.00      |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 56853    | 50.000    | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 25783    | 50.000    | ug/l   | 0.00      |
|                               |        |       |          |           |        |           |
| System Monitoring Compounds   |        |       |          |           |        |           |
| 33) 1,2-Dichloroethane-d4     | 8.228  | 65    | 40287    | 154.245   | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 308.480%# |
| 35) Dibromofluoromethane      | 7.805  | 113   | 27700    | 80.900    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 161.800%# |
| 50) Toluene-d8                | 10.269 | 98    | 59338    | 44.627    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 89.260%   |
| 62) 4-Bromofluorobenzene      | 12.569 | 95    | 21413    | 55.651    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 111.300%  |
|                               |        |       |          |           |        |           |
| Target Compounds              |        |       |          |           |        |           |
|                               |        |       |          |           | Qvalue |           |
| 5) Bromomethane               | 2.687  | 94    | 361      | Below Cal | #      | 75        |
| 11) Tert butyl alcohol        | 5.069  | 59    | 625      | 32.653    | ug/l # | 86        |
| 16) Acetone                   | 4.028  | 43    | 341      | 6.718     | ug/l # | 44        |
| 20) Methylene Chloride        | 4.799  | 84    | 7018     | 4.505     | ug/l # | 89        |
| 31) Cyclohexane               | 7.869  | 56    | 534      | 1.231     | ug/l # | 33        |
| 36) 1,1-Dichloropropene       | 7.869  | 75    | 1933     | 4.136     | ug/l # | 42        |
| 38) Carbon Tetrachloride      | 7.881  | 117   | 2359     | 4.802     | ug/l # | 13        |
| 55) 1,1,2-Trichloroethane     | 10.669 | 97    | 606      | 2.297     | ug/l # | 15        |
| 73) Isopropylbenzene          | 12.569 | 105   | 75       | 3.664     | ug/l # | 48        |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 11451    | 50.810    | ug/l # | 100       |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 11451    | 96.908    | ug/l # | 19        |
| 84) 1,2,4-Trimethylbenzene    | 13.198 | 105   | 63       | 3.465     | ug/l # | 29        |
| 86) p-Isopropyltoluene        | 13.463 | 119   | 59       | 3.917     | ug/l # | 51        |
| 89) n-Butylbenzene            | 13.516 | 91    | 62       | 3.817     | ug/l # | 34        |
| 95) Naphthalene               | 15.322 | 128   | 1072     | 1.284     | ug/l # | 70        |
| -----                         |        |       |          |           |        |           |

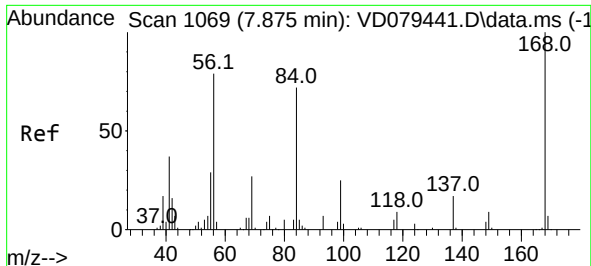
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Jul 30 03:50:47 2024  
Response via : Initial Calibration

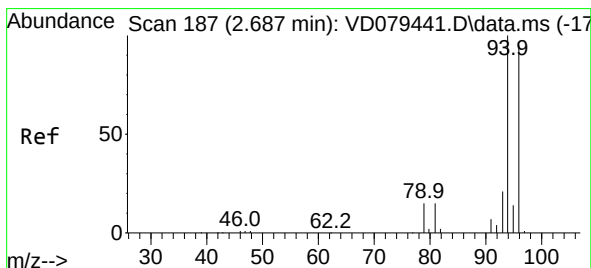
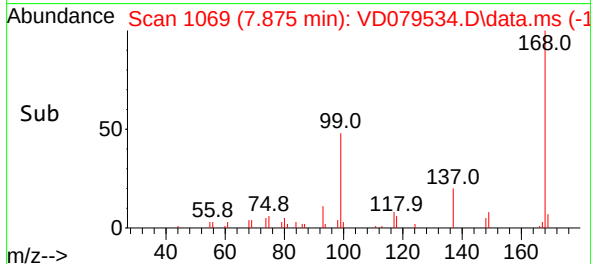
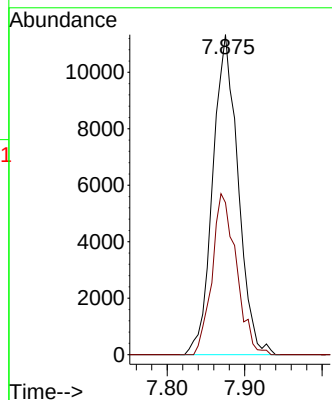
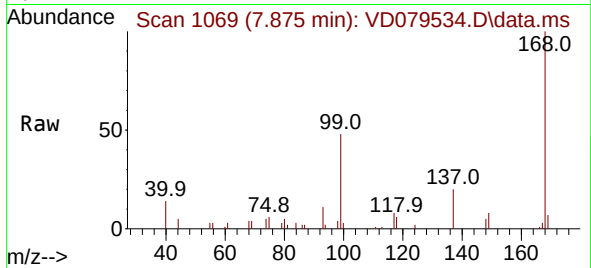




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

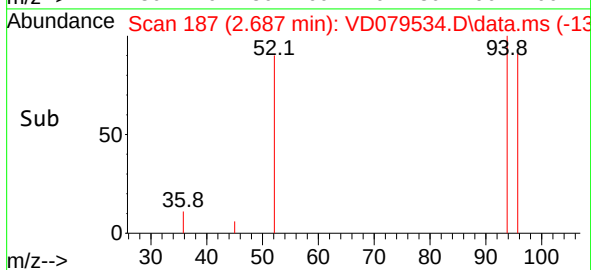
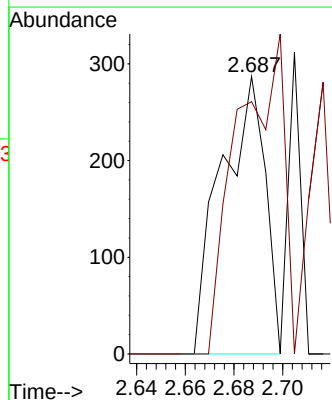
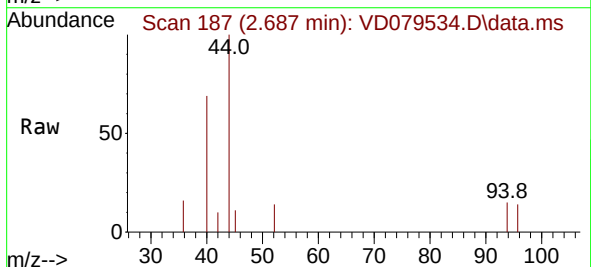
Instrument :  
MSVOA\_D  
ClientSampleId :  
S-847-G1-SO-2.5-3.0-072024RE

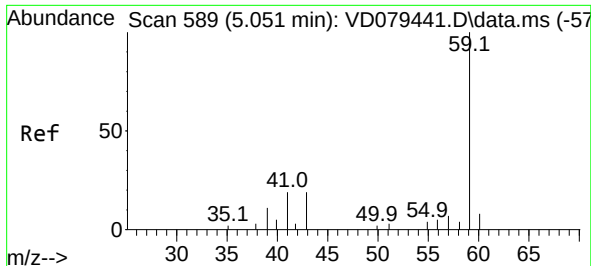
Tgt Ion:168 Resp: 25710  
Ion Ratio Lower Upper  
168 100  
99 47.5 41.1 61.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.687 min Scan# 187  
Delta R.T. 0.000 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

Tgt Ion: 94 Resp: 361  
Ion Ratio Lower Upper  
94 100  
96 120.5 76.9 115.3#





#11

Tert butyl alcohol

Concen: 32.653 ug/l

RT: 5.069 min Scan# 592

Delta R.T. 0.023 min

Lab File: VD079534.D

Acq: 01 Aug 2024 19:13

Instrument :

MSVOA\_D

ClientSampleId :

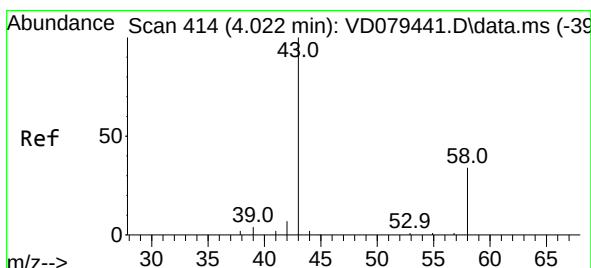
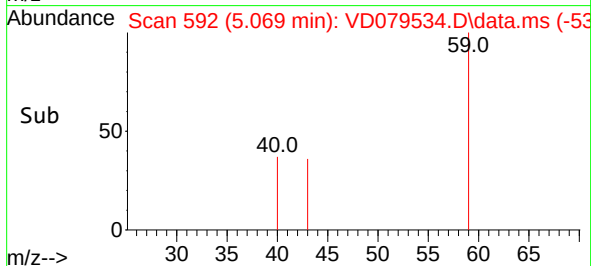
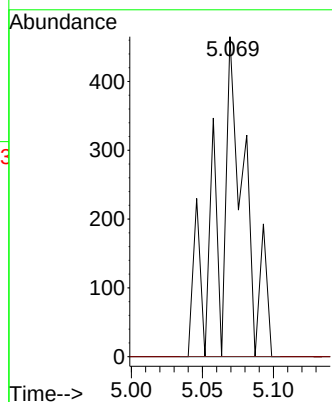
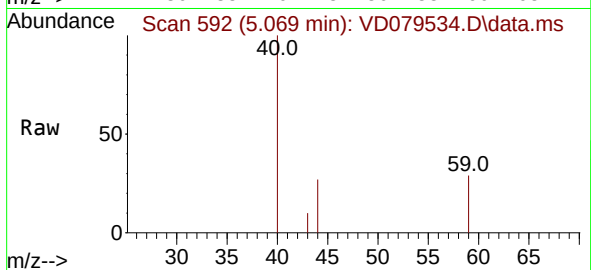
S-847-G1-SO-2.5-3.0-072024RE

Tgt Ion: 59 Resp: 625

Ion Ratio Lower Upper

59 100

57 0.0 3.6 5.4#



#16

Acetone

Concen: 6.718 ug/l

RT: 4.028 min Scan# 415

Delta R.T. 0.006 min

Lab File: VD079534.D

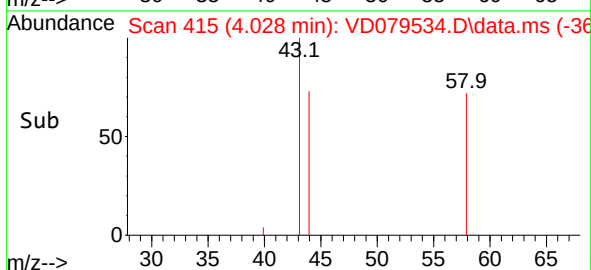
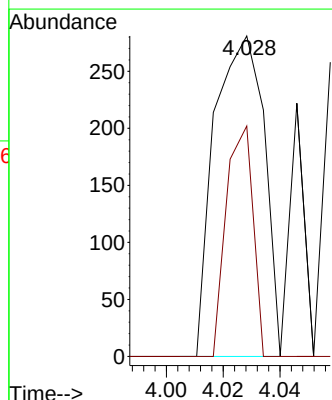
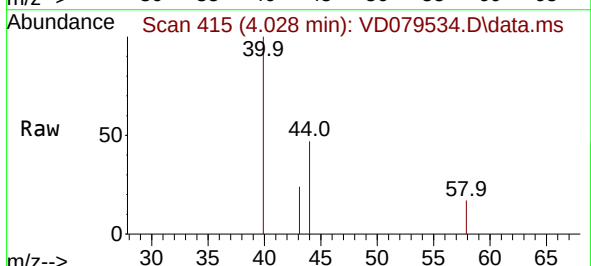
Acq: 01 Aug 2024 19:13

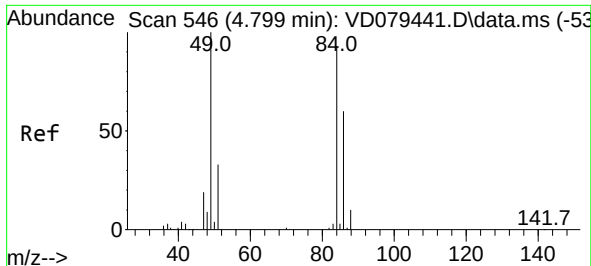
Tgt Ion: 43 Resp: 341

Ion Ratio Lower Upper

43 100

58 71.9 30.4 45.6#

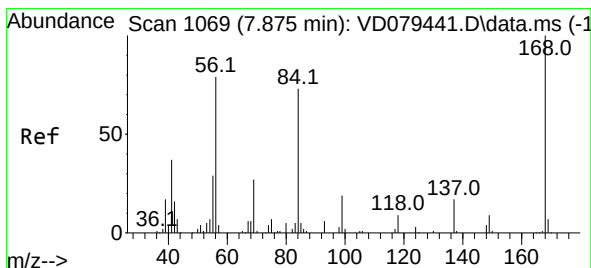
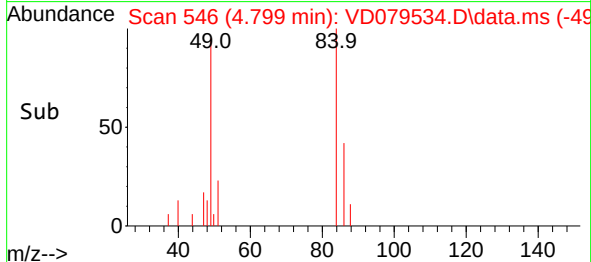
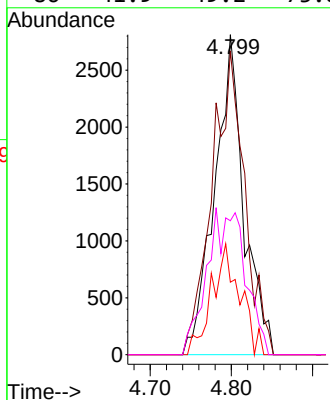
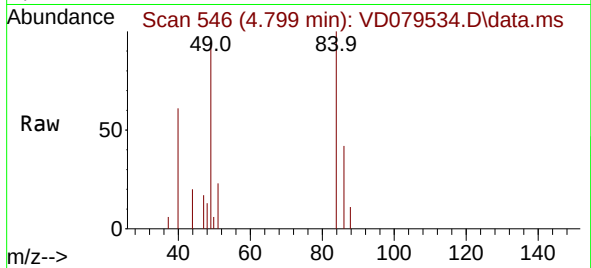




#20  
Methylene Chloride  
Concen: 4.505 ug/l  
RT: 4.799 min Scan# 546  
Delta R.T. -0.000 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

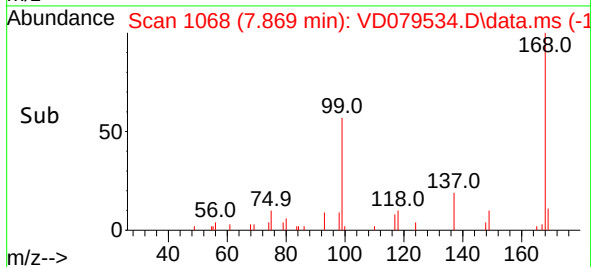
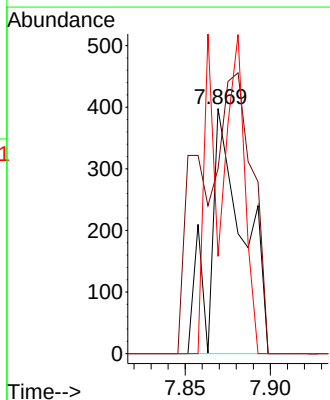
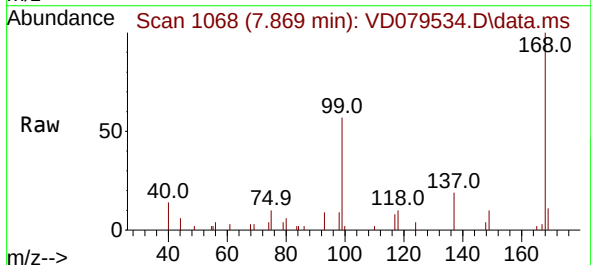
Instrument : MSVOA\_D  
ClientSampleId : S-847-G1-SO-2.5-3.0-072024RE

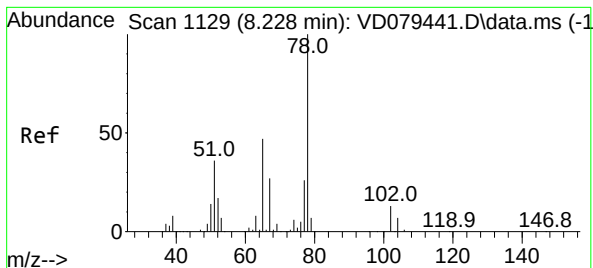
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 7018  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 95.0     | 75.6 113.4  |
| 51 22.7     | 24.2 36.2#  |
| 86 41.9     | 49.2 73.8#  |



#31  
Cyclohexane  
Concen: 1.231 ug/l  
RT: 7.869 min Scan# 1068  
Delta R.T. -0.012 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

|             |           |        |  |
|-------------|-----------|--------|--|
| Tgt Ion: 56 | Resp: 534 |        |  |
| Ion Ratio   | Lower     | Upper  |  |
| 56 100      |           |        |  |
| 69 75.4     | 28.0      | 42.0#  |  |
| 84 39.7     | 87.4      | 131.0# |  |





#33

1,2-Dichloroethane-d4

Concen: 154.245 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VD079534.D

Acq: 01 Aug 2024 19:13

Instrument :

MSVOA\_D

ClientSampleId :

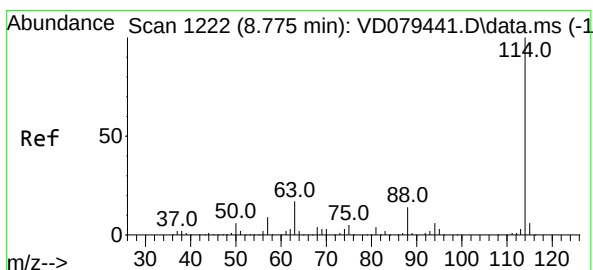
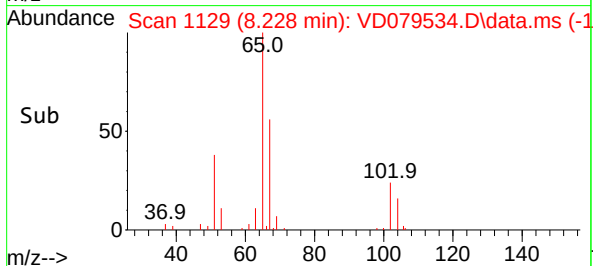
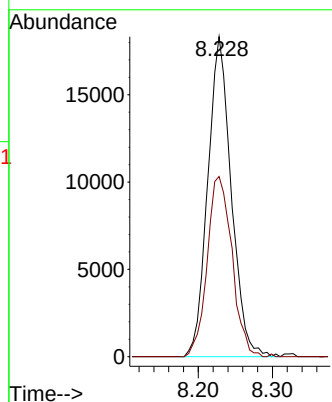
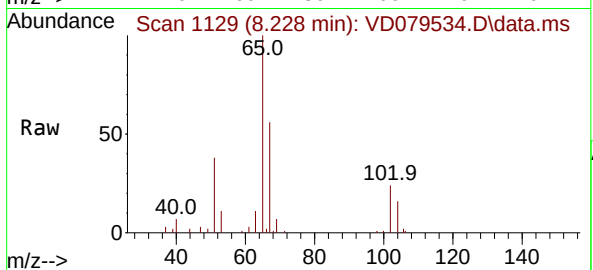
S-847-G1-SO-2.5-3.0-072024RE

Tgt Ion: 65 Resp: 40287

Ion Ratio Lower Upper

65 100

67 59.4 0.0 111.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.006 min

Lab File: VD079534.D

Acq: 01 Aug 2024 19:13

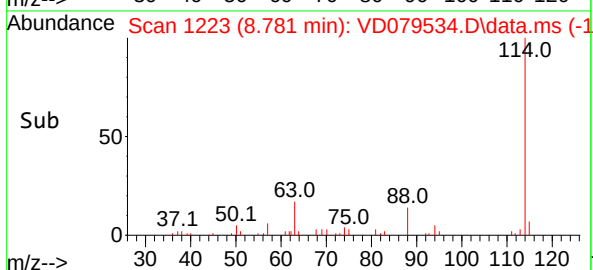
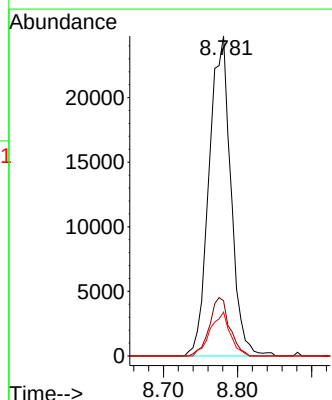
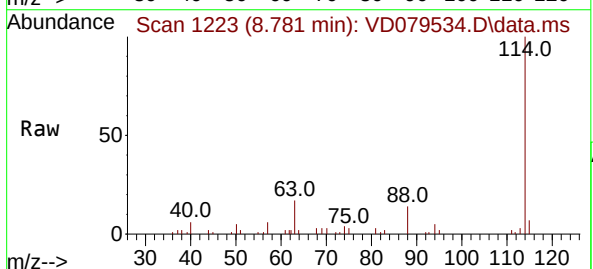
Tgt Ion: 114 Resp: 50587

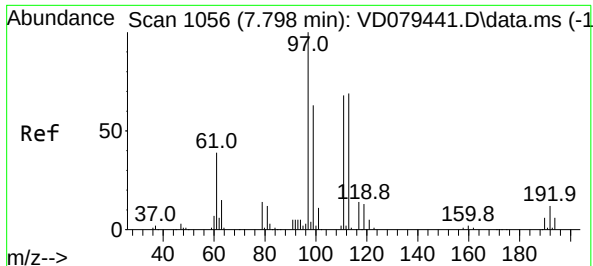
Ion Ratio Lower Upper

114 100

63 17.3 0.0 34.0

88 13.7 0.0 27.2





#35

Dibromofluoromethane

Concen: 80.900 ug/l

RT: 7.805 min Scan# 1067

Delta R.T. 0.000 min

Lab File: VD079534.D

Acq: 01 Aug 2024 19:13

Instrument :

MSVOA\_D

ClientSampleId :

S-847-G1-SO-2.5-3.0-072024RE

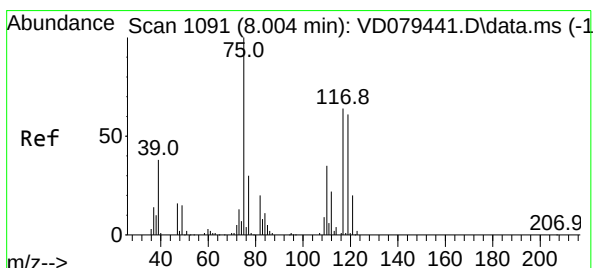
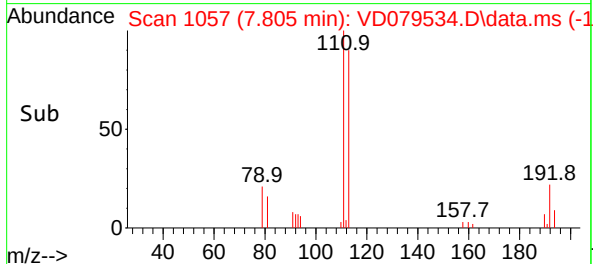
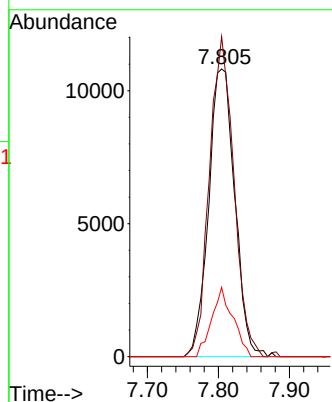
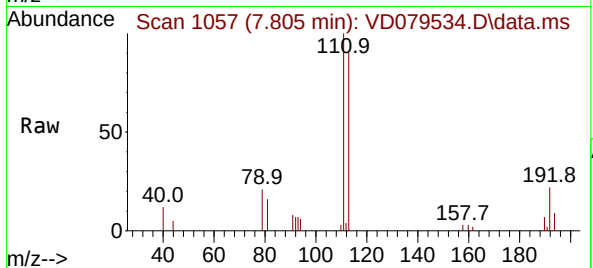
Tgt Ion:113 Resp: 27700

Ion Ratio Lower Upper

113 100

111 104.0 84.0 126.0

192 19.5 15.4 23.0



#36

1,1-Dichloropropene

Concen: 4.136 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VD079534.D

Acq: 01 Aug 2024 19:13

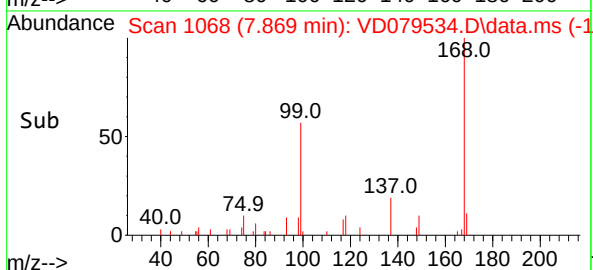
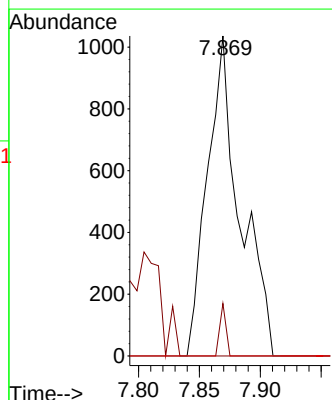
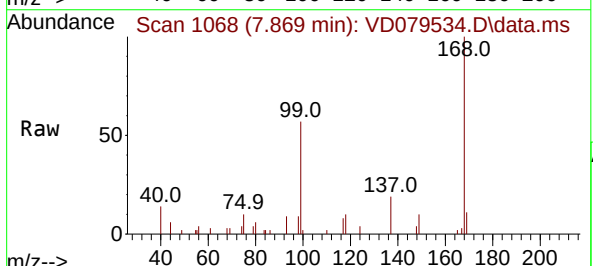
Tgt Ion: 75 Resp: 1933

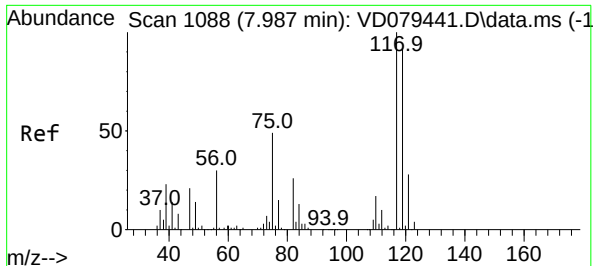
Ion Ratio Lower Upper

75 100

110 3.1 19.6 58.7#

77 0.0 26.1 39.1#

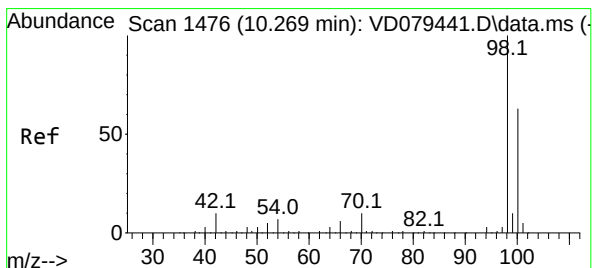
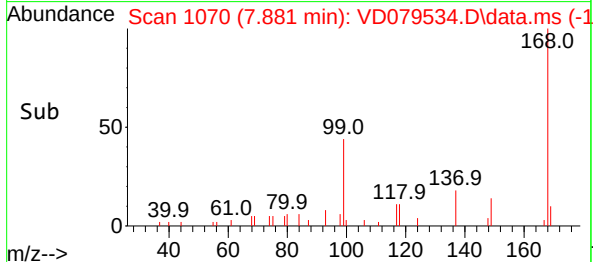
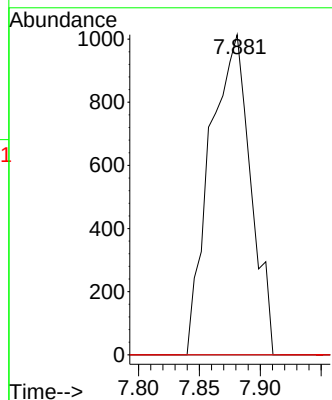
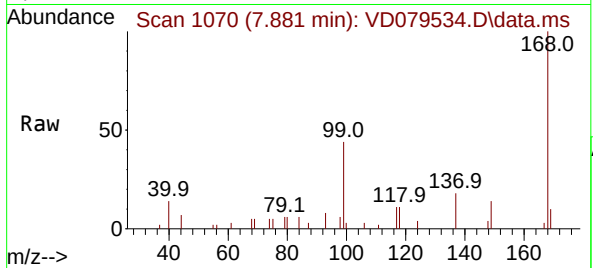




#38  
Carbon Tetrachloride  
Concen: 4.802 ug/l  
RT: 7.881 min Scan# 1088  
Delta R.T. -0.106 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

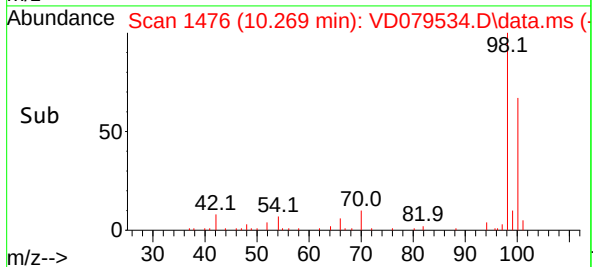
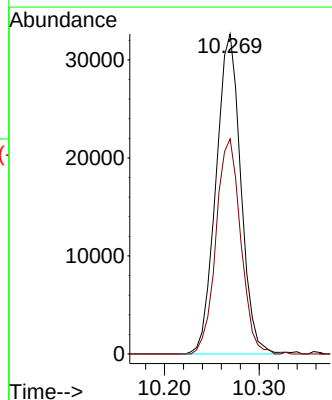
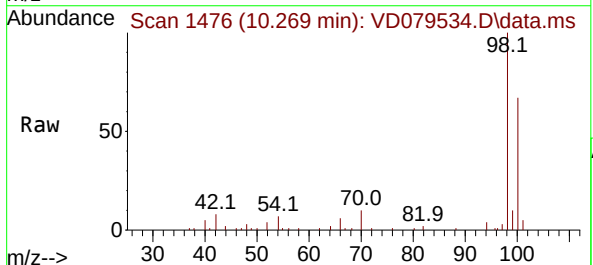
Instrument : MSVOA\_D  
ClientSampleId : S-847-G1-SO-2.5-3.0-072024RE

Tgt Ion:117 Resp: 2359  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.4 113.0#  
121 0.0 25.0 37.4#

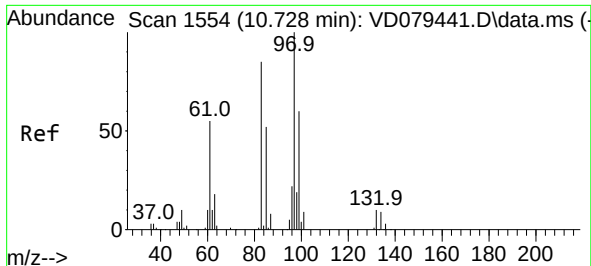


#50  
Toluene-d8  
Concen: 44.627 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.006 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

Tgt Ion: 98 Resp: 59338  
Ion Ratio Lower Upper  
98 100  
100 66.8 51.6 77.4



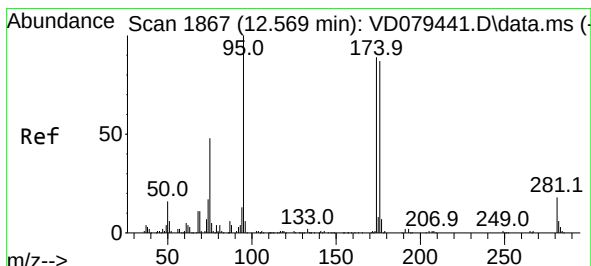
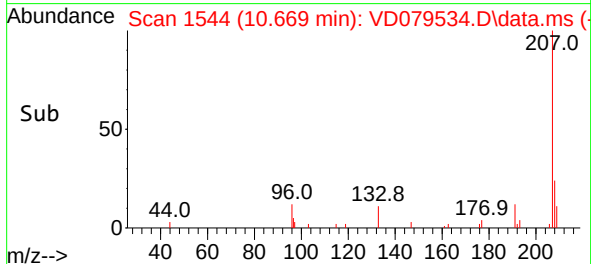
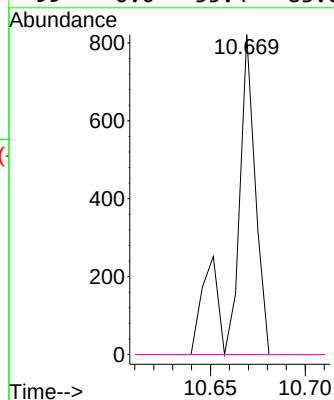
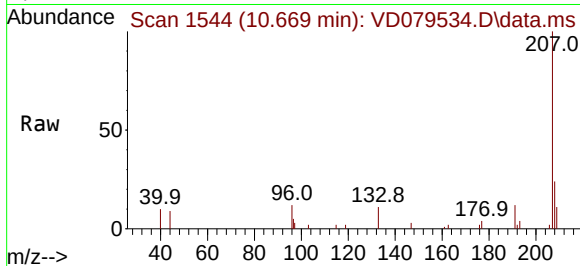




#55  
1,1,2-Trichloroethane  
Concen: 2.297 ug/l  
RT: 10.669 min Scan# 1544  
Delta R.T. -0.059 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

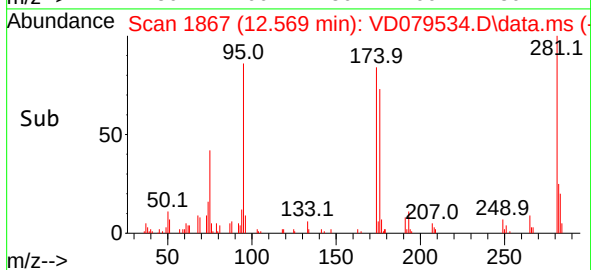
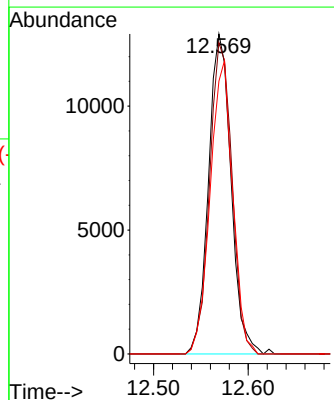
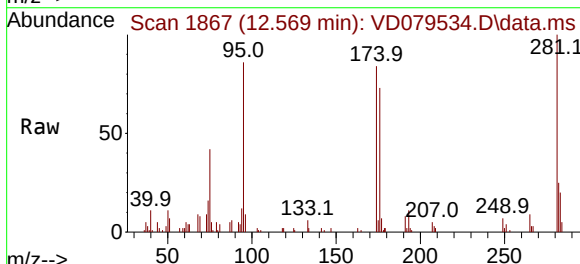
Instrument : MSVOA\_D  
ClientSampleId : S-847-G1-SO-2.5-3.0-072024RE

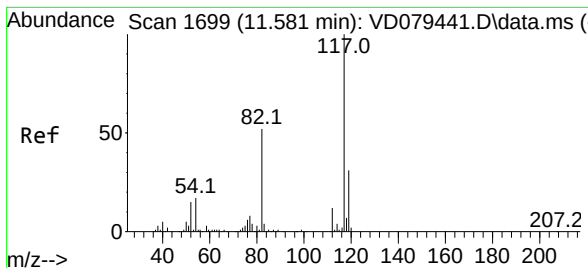
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 606   |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 0.0      | 65.8 98.8#  |
| 85 0.0      | 43.8 65.8#  |
| 99 0.0      | 55.4 83.0#  |



#62  
4-Bromofluorobenzene  
Concen: 55.651 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. 0.000 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

|             |             |
|-------------|-------------|
| Tgt Ion: 95 | Resp: 21413 |
| Ion Ratio   | Lower Upper |
| 95 100      |             |
| 174 96.7    | 0.0 195.4   |
| 176 91.4    | 0.0 192.6   |

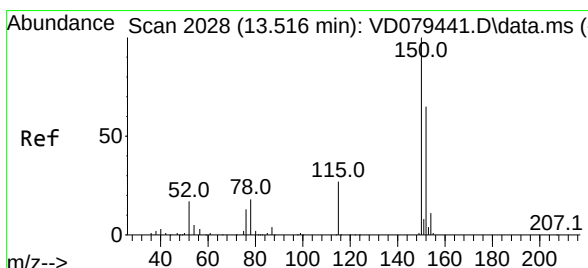
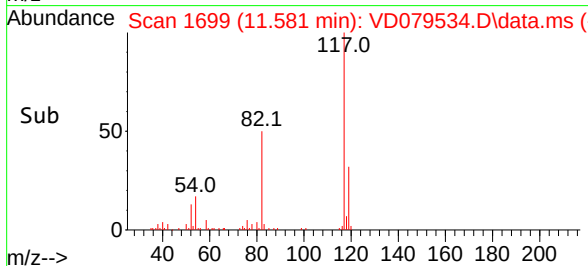
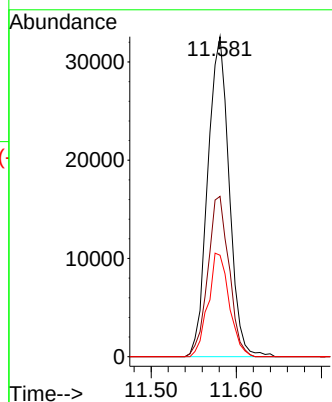
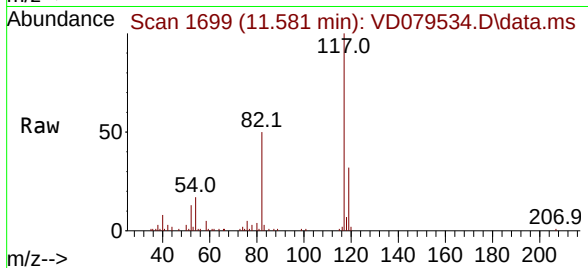




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

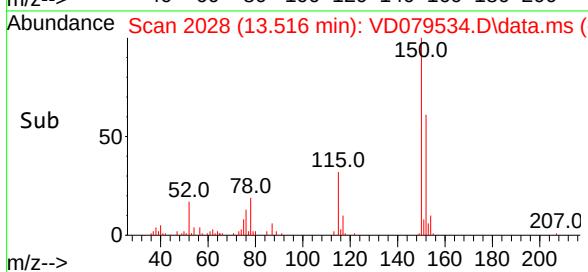
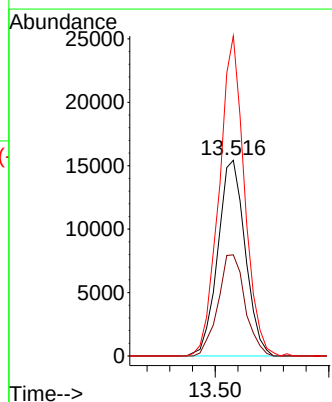
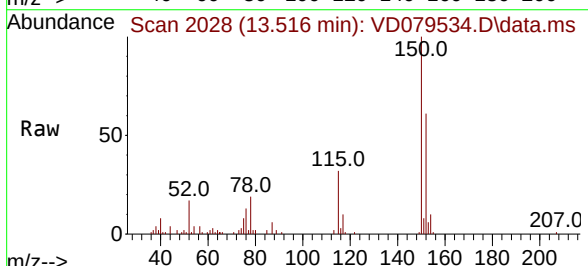
Instrument :  
MSVOA\_D  
ClientSampleId :  
S-847-G1-SO-2.5-3.0-072024RE

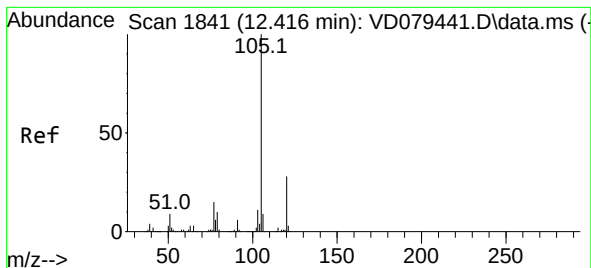
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 56853 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 82        | 50.1  | 39.8  | 59.6  |
| 119       | 31.7  | 25.7  | 38.5  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. 0.006 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 25783 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 115       | 51.1  | 26.5  | 79.5  |
| 150       | 151.4 | 0.0   | 341.6 |





#73

Isopropylbenzene

Concen: 3.664 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. 0.153 min

Lab File: VD079534.D

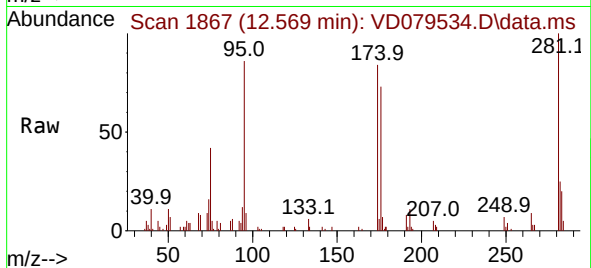
Acq: 01 Aug 2024 19:13

Instrument :

MSVOA\_D

ClientSampleId :

S-847-G1-SO-2.5-3.0-072024RE

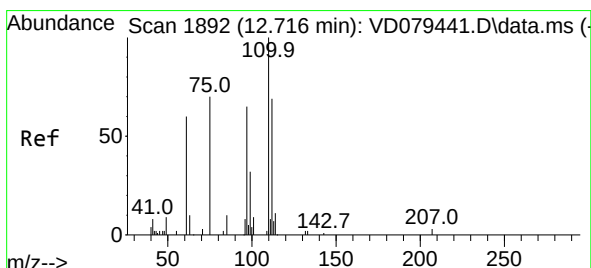
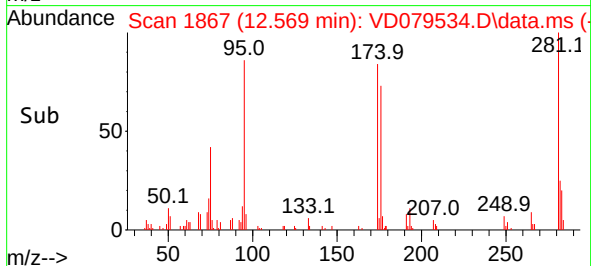
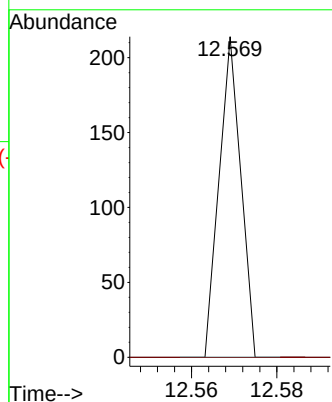


Tgt Ion:105 Resp: 75

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



#76

1,2,3-Trichloropropane

Concen: 50.810 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.147 min

Lab File: VD079534.D

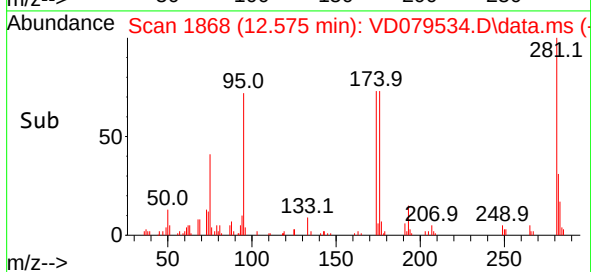
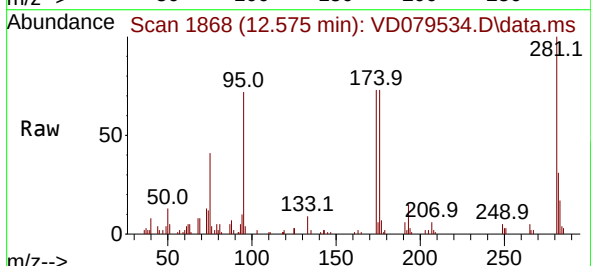
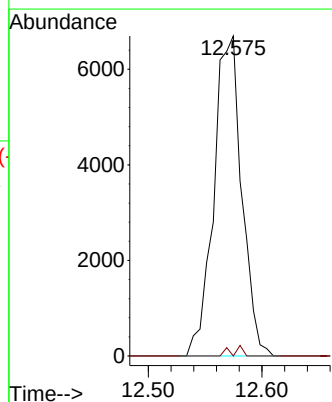
Acq: 01 Aug 2024 19:13

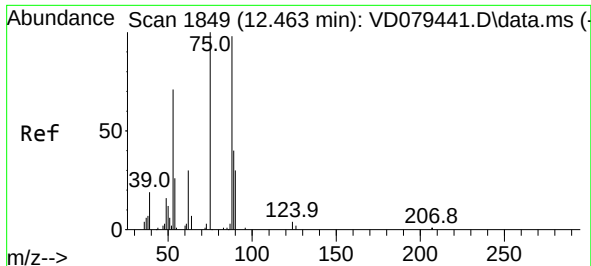
Tgt Ion: 75 Resp: 11451

Ion Ratio Lower Upper

75 100

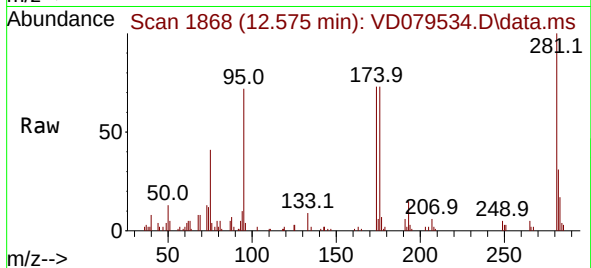
77 0.5 0.0 0.0#



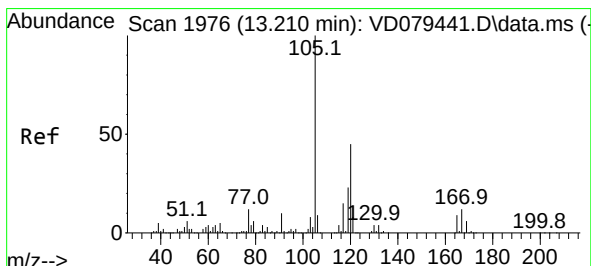
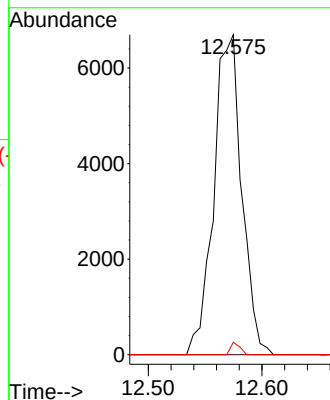
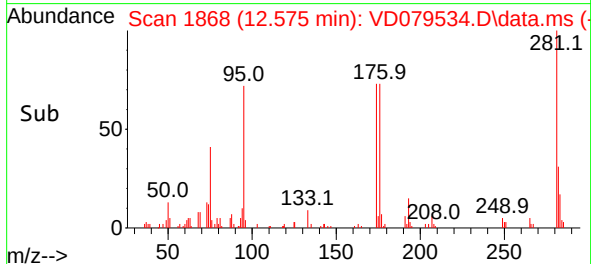


#81  
trans-1,4-Dichloro-2-butene  
Concen: 96.908 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

Instrument :  
MSVOA\_D  
ClientSampleId :  
S-847-G1-SO-2.5-3.0-072024RE

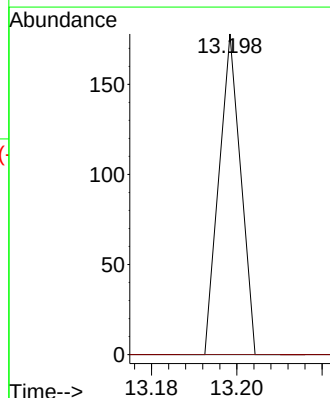
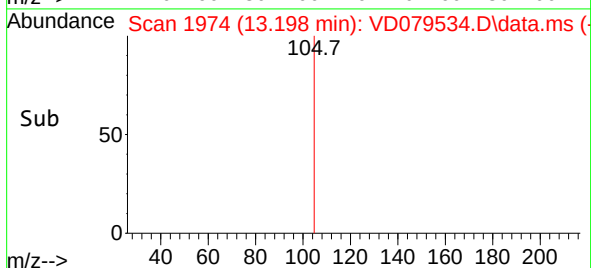
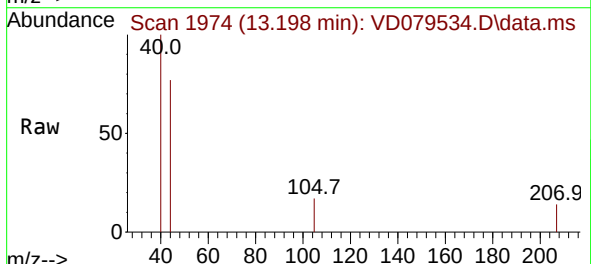


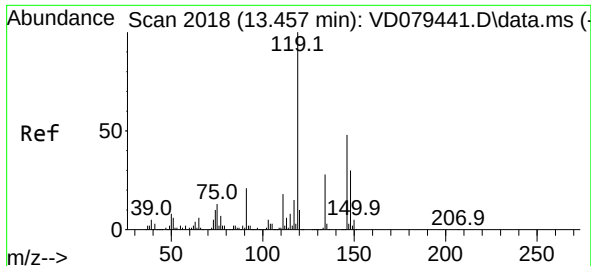
Tgt Ion: 75 Resp: 11451  
Ion Ratio Lower Upper  
75 100  
53 0.0 61.4 92.2#  
89 1.3 35.4 53.0#



#84  
1,2,4-Trimethylbenzene  
Concen: 3.465 ug/l  
RT: 13.198 min Scan# 1974  
Delta R.T. -0.006 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

Tgt Ion: 105 Resp: 63  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.6 71.0#

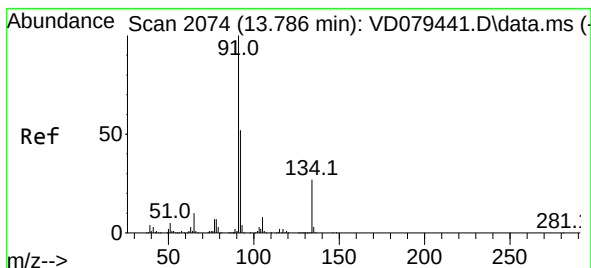
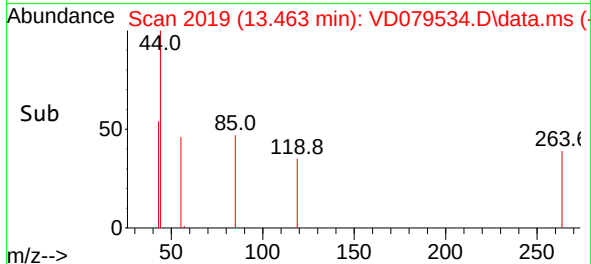
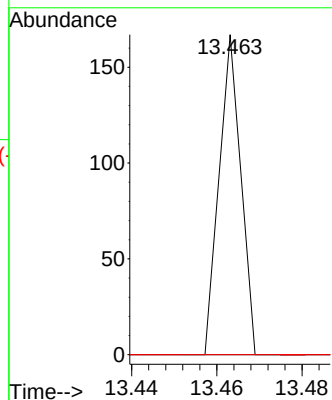
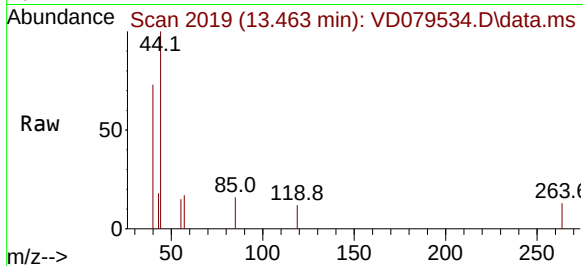




#86  
p-Isopropyltoluene  
Concen: 3.917 ug/l  
RT: 13.463 min Scan# 2018  
Delta R.T. 0.006 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

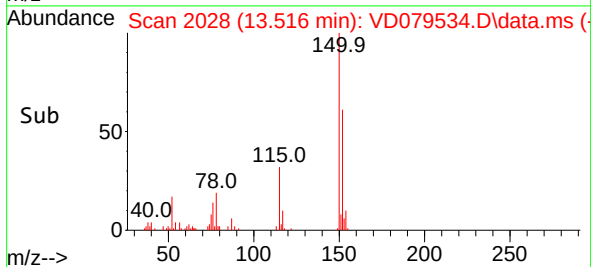
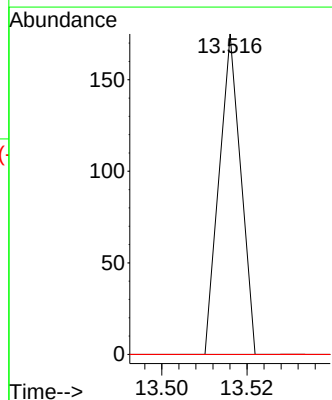
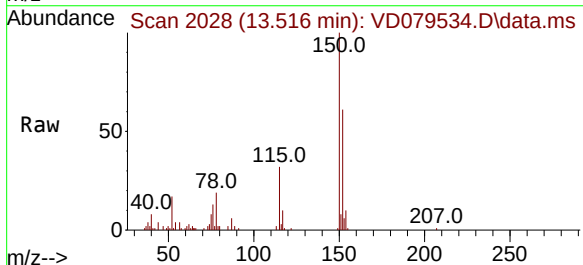
Instrument :  
MSVOA\_D  
ClientSampleId :  
S-847-G1-SO-2.5-3.0-072024RE

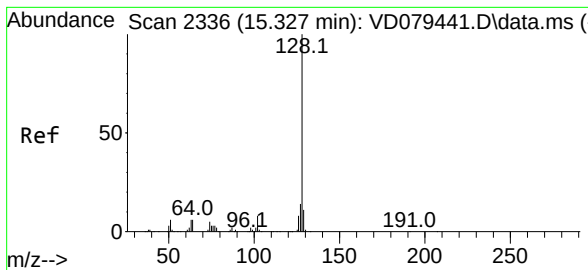
Tgt Ion:119 Resp: 59  
Ion Ratio Lower Upper  
119 100  
134 0.0 13.7 41.1#  
91 0.0 10.7 32.1#



#89  
n-Butylbenzene  
Concen: 3.817 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. -0.265 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

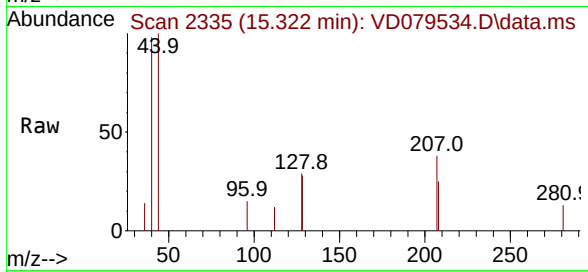
Tgt Ion: 91 Resp: 62  
Ion Ratio Lower Upper  
91 100  
92 0.0 25.7 77.0#  
134 0.0 13.6 40.8#





#95  
Naphthalene  
Concen: 1.284 ug/l  
RT: 15.322 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VD079534.D  
Acq: 01 Aug 2024 19:13

Instrument :  
MSVOA\_D  
ClientSampleId :  
S-847-G1-SO-2.5-3.0-072024RE



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1072  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.2  | 15.4# |
| 129      | 0.0   | 8.5   | 12.7# |

