

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122123\  
 Data File : VD078034.D  
 Acq On : 21 Dec 2023 18:56  
 Operator : RP/MD  
 Sample : 05877-05  
 Misc : 4.60G/5.0ml/MSVOA\_D/SOIL/A  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 22 05:30:38 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 14 14:48:10 2023  
 Response via : Initial Calibration

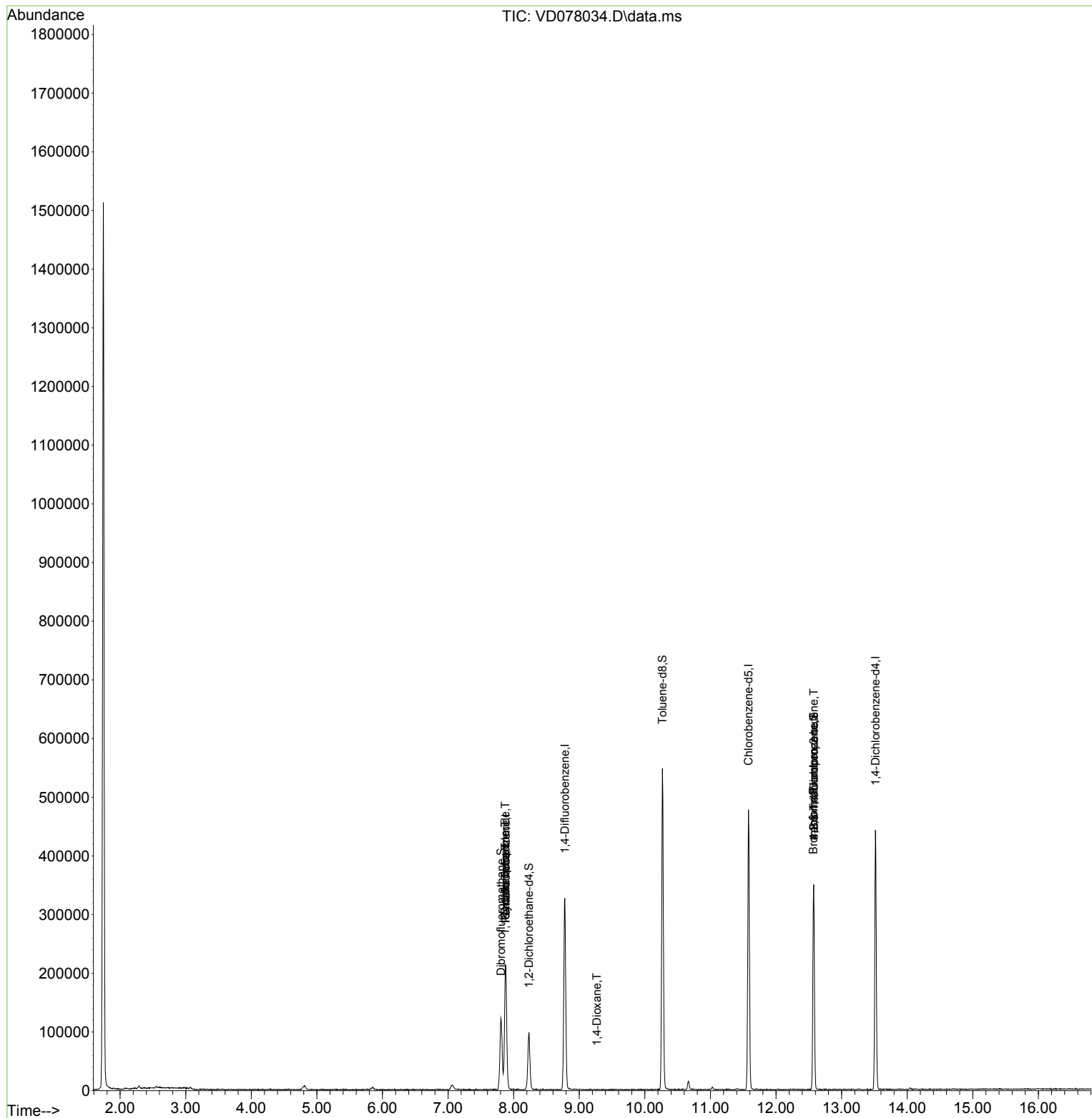
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.881  | 168   | 163827   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 295096   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 276944   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 115959   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 71691    | 37.137    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 74.280%  |
| 35) Dibromofluoromethane      | 7.810  | 113   | 89056    | 43.084    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 86.160%  |
| 50) Toluene-d8                | 10.269 | 98    | 373669   | 45.136    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 90.280%  |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 103578   | 41.847    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 83.700%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 5.063  | 59    | 273      | Below Cal | #      | 73       |
| 16) Acetone                   | 4.022  | 43    | 358      | Below Cal | #      | 32       |
| 20) Methylene Chloride        | 4.816  | 84    | 5065     | Below Cal | #      | 80       |
| 25) 2-Butanone                | 7.093  | 43    | 205      | Below Cal | #      | 37       |
| 31) Cyclohexane               | 7.875  | 56    | 4119     | 1.200     | ug/l # | 37       |
| 36) 1,1-Dichloropropene       | 7.869  | 75    | 13298    | 4.022     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 16059    | 4.872     | ug/l # | 17       |
| 49) 1,4-Dioxane               | 9.269  | 88    | 54       | 4.505     | ug/l # | 33       |
| 65) Chlorobenzene             | 11.492 | 112   | 56       | Below Cal | #      | 43       |
| 71) Bromoform                 | 12.569 | 173   | 1261     | 1.048     | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 56524    | 56.125    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 56524    | 113.713   | ug/l # | 17       |
| 88) 1,4-Dichlorobenzene       | 13.522 | 146   | 61       | Below Cal | #      | 1        |
| 92) 1,2-Dibromo-3-Chloropr... | 14.398 | 75    | 65       | Below Cal | #      | 1        |
| -----                         |        |       |          |           |        |          |

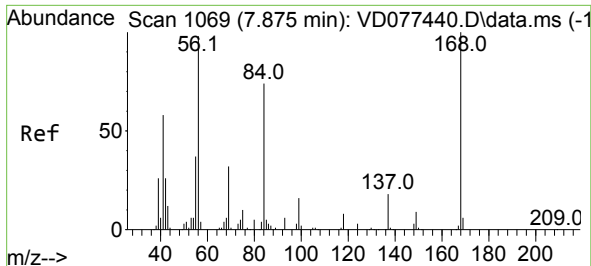
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122123\  
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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Dec 22 05:30:38 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 14 14:48:10 2023  
Response via : Initial Calibration

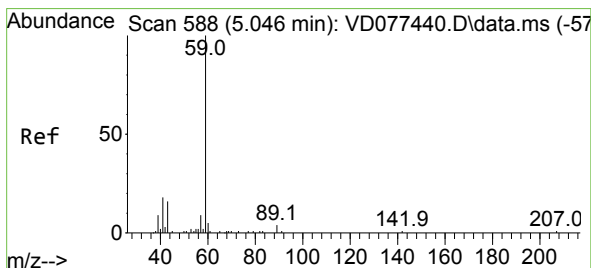
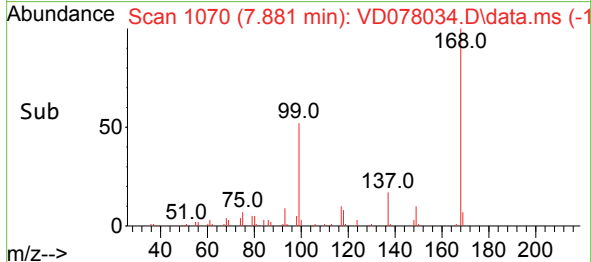
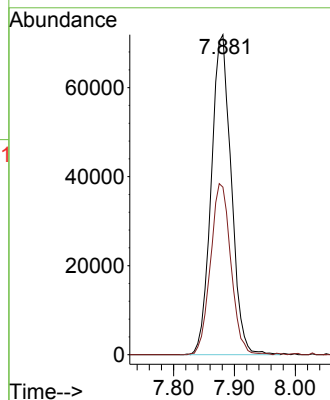
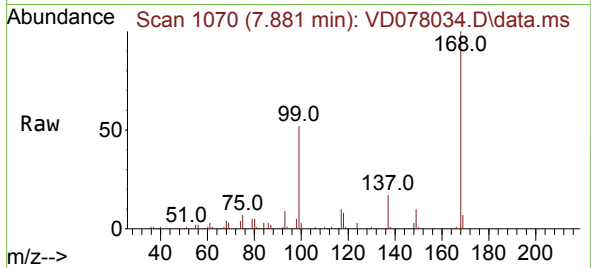




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.881 min Scan# 1069  
Delta R.T. 0.006 min  
Lab File: VD078034.D  
Acq: 21 Dec 2023 18:56

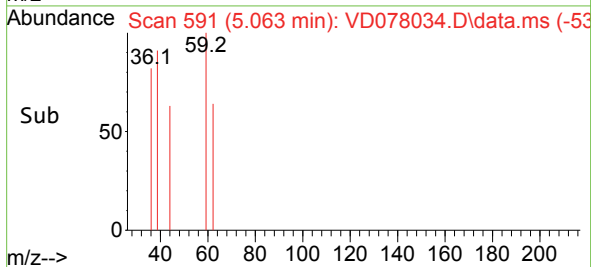
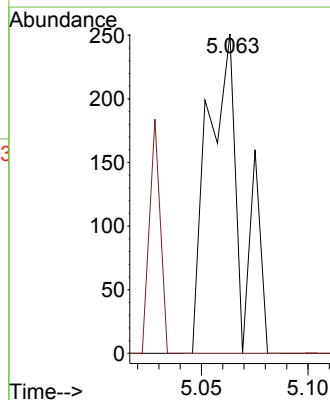
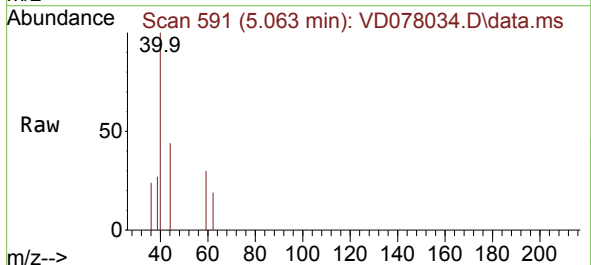
Instrument :  
MSVOA\_D  
ClientSampleId :

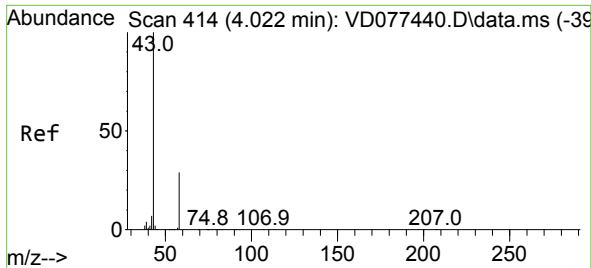
Tgt Ion:168 Resp: 163827  
Ion Ratio Lower Upper  
168 100  
99 52.4 36.7 55.1



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.063 min Scan# 591  
Delta R.T. 0.017 min  
Lab File: VD078034.D  
Acq: 21 Dec 2023 18:56

Tgt Ion: 59 Resp: 273  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

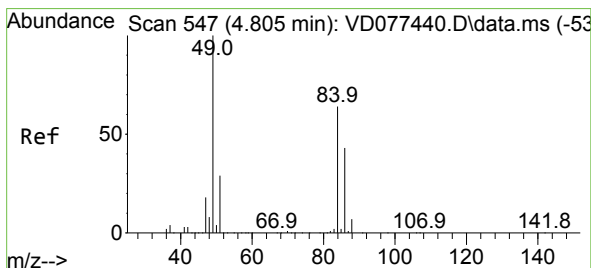
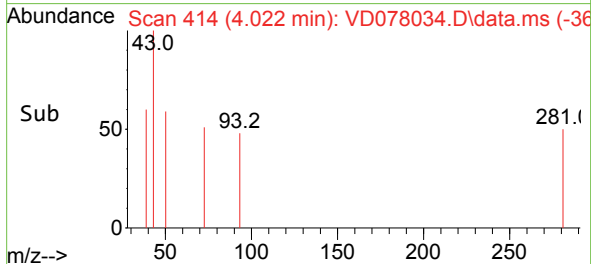
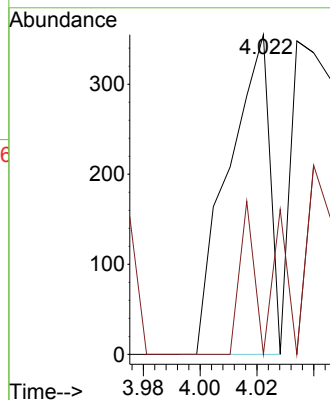
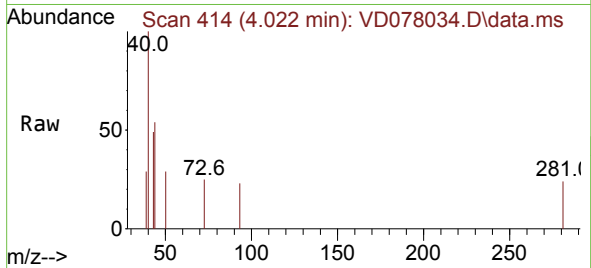




#16  
Acetone  
Concen: Below Cal  
RT: 4.022 min Scan# 414  
Delta R.T. 0.000 min  
Lab File: VD078034.D  
Acq: 21 Dec 2023 18:56

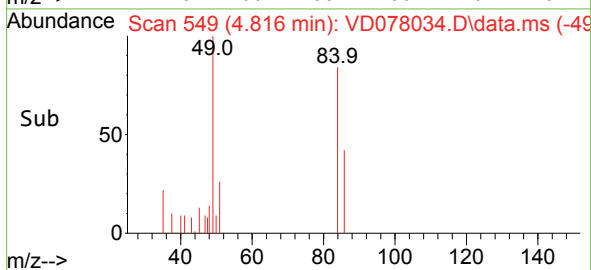
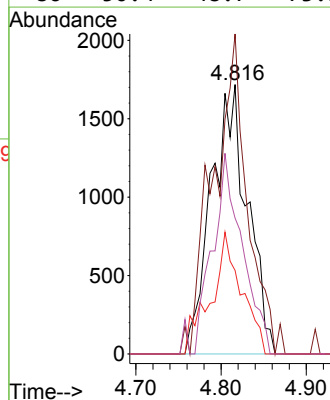
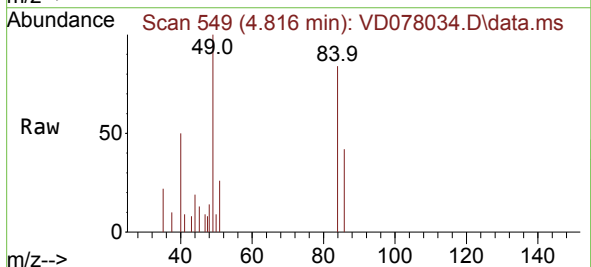
Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 43 Resp: 358  
Ion Ratio Lower Upper  
43 100  
58 0.0 34.7 52.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.816 min Scan# 549  
Delta R.T. 0.011 min  
Lab File: VD078034.D  
Acq: 21 Dec 2023 18:56

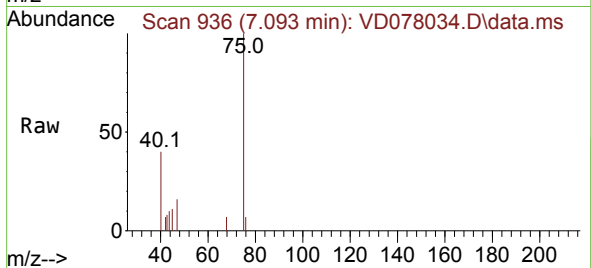
Tgt Ion: 84 Resp: 5065  
Ion Ratio Lower Upper  
84 100  
49 118.7 71.4 107.2#  
51 31.0 24.5 36.7  
86 50.4 48.7 73.1



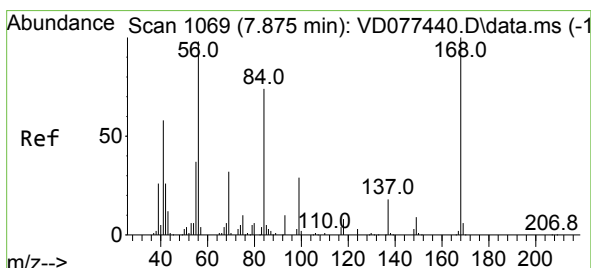
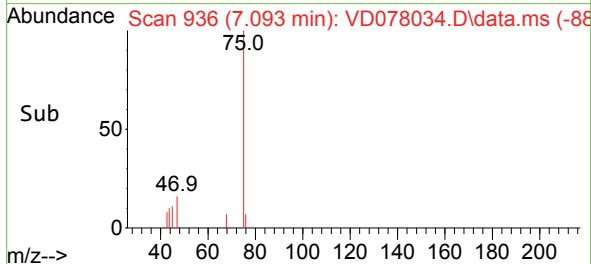
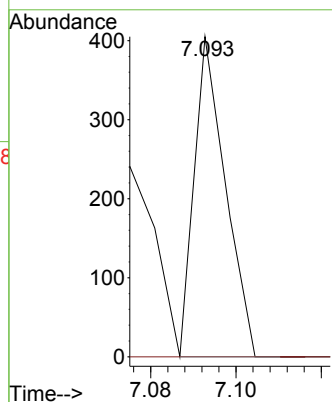


#25  
2-Butanone  
Concen: Below Cal  
RT: 7.093 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VD078034.D  
Acq: 21 Dec 2023 18:56

Instrument :  
MSVOA\_D  
ClientSampleId :

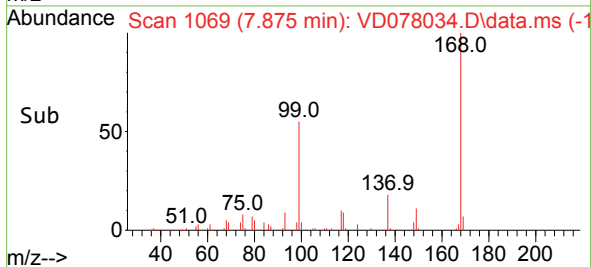
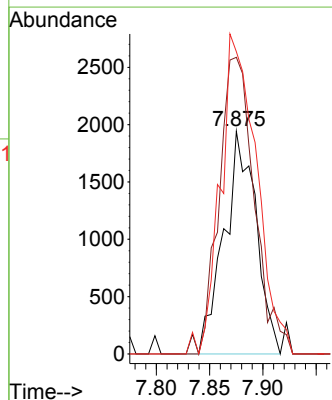
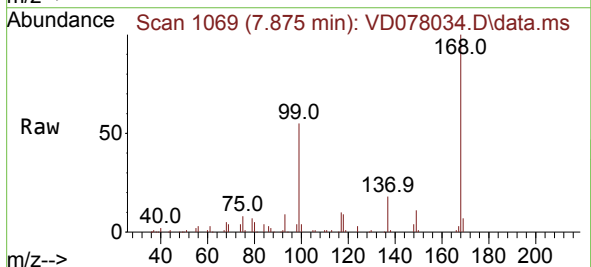


Tgt Ion: 43 Resp: 205  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.7 46.1#



#31  
Cyclohexane  
Concen: 1.200 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD078034.D  
Acq: 21 Dec 2023 18:56

Tgt Ion: 56 Resp: 4119  
Ion Ratio Lower Upper  
56 100  
69 133.2 28.6 43.0#  
84 135.7 84.8 127.2#





#33

1,2-Dichloroethane-d4

Concen: 37.137 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VD078034.D

Acq: 21 Dec 2023 18:56

Instrument :

MSVOA\_D

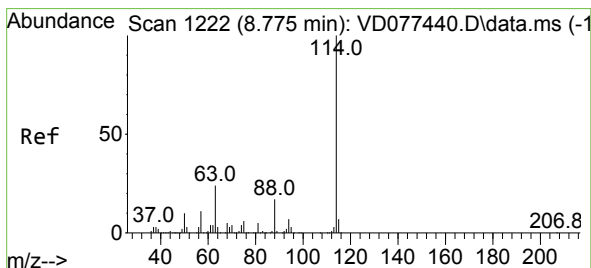
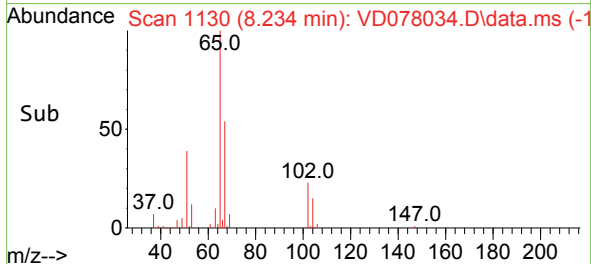
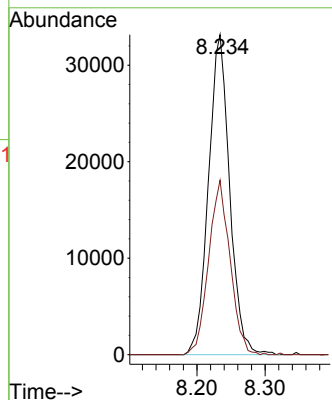
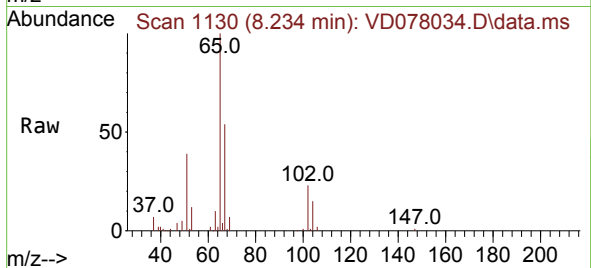
ClientSampleId :

Tgt Ion: 65 Resp: 71691

Ion Ratio Lower Upper

65 100

67 55.2 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.006 min

Lab File: VD078034.D

Acq: 21 Dec 2023 18:56

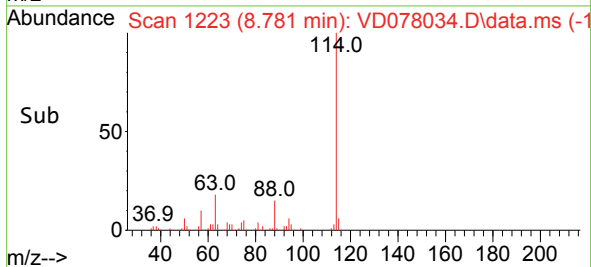
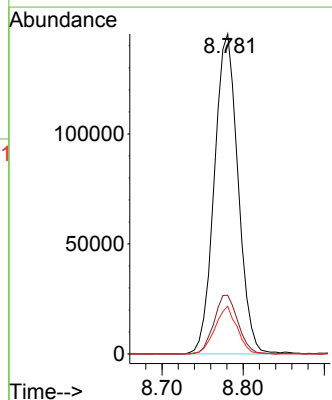
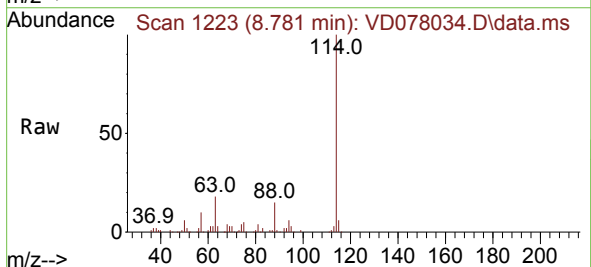
Tgt Ion: 114 Resp: 295096

Ion Ratio Lower Upper

114 100

63 18.4 0.0 33.4

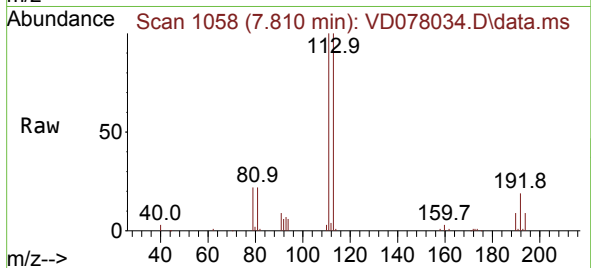
88 14.9 0.0 26.2



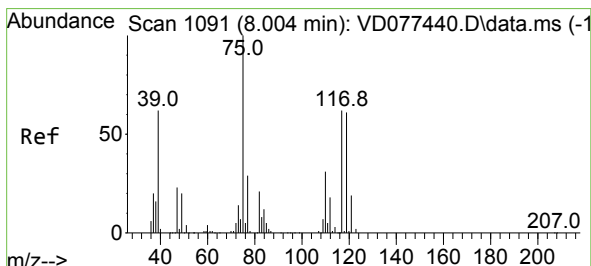
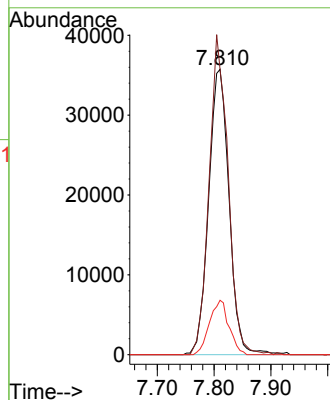
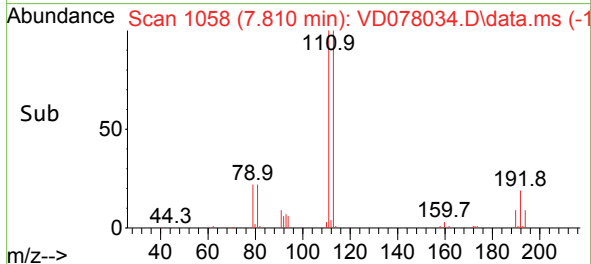


#35  
 Dibromofluoromethane  
 Concen: 43.084 ug/l  
 RT: 7.810 min Scan# 1058  
 Delta R.T. 0.006 min  
 Lab File: VD078034.D  
 Acq: 21 Dec 2023 18:56

Instrument :  
 MSVOA\_D  
 ClientSampleId :

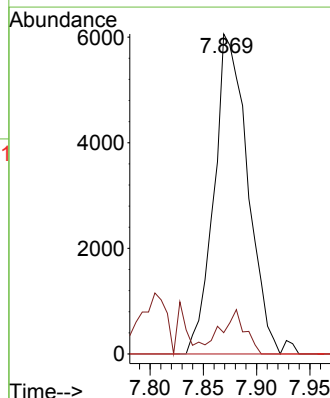
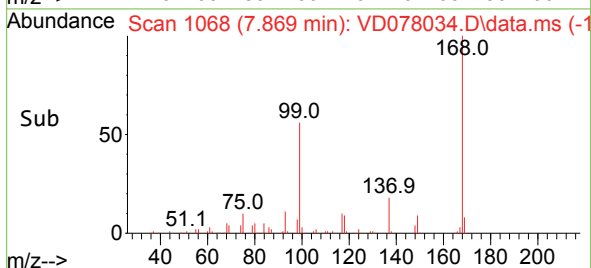
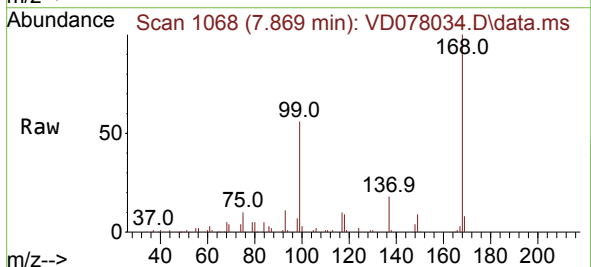


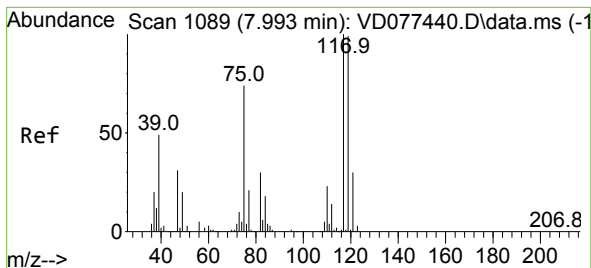
Tgt Ion:113 Resp: 89056  
 Ion Ratio Lower Upper  
 113 100  
 111 104.2 84.7 127.1  
 192 18.2 16.8 25.2



#36  
 1,1-Dichloropropene  
 Concen: 4.022 ug/l  
 RT: 7.869 min Scan# 1068  
 Delta R.T. -0.135 min  
 Lab File: VD078034.D  
 Acq: 21 Dec 2023 18:56

Tgt Ion: 75 Resp: 13298  
 Ion Ratio Lower Upper  
 75 100  
 110 9.6 19.9 59.6#  
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 4.872 ug/l

RT: 7.875 min Scan# 1

Delta R.T. -0.118 min

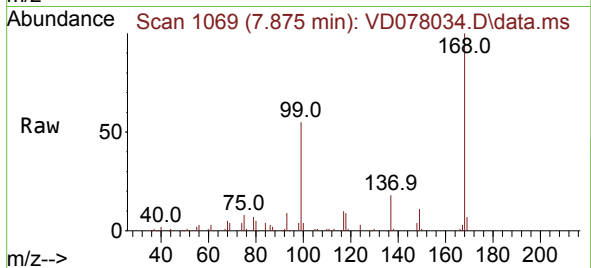
Lab File: VD078034.D

Acq: 21 Dec 2023 18:56

Instrument :

MSVOA\_D

ClientSampleId :



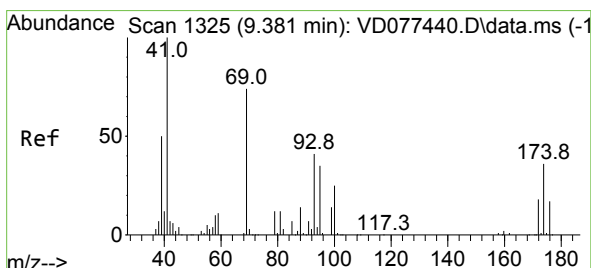
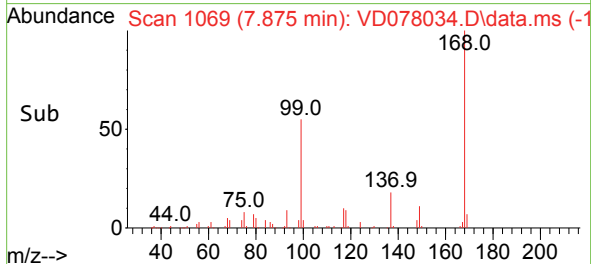
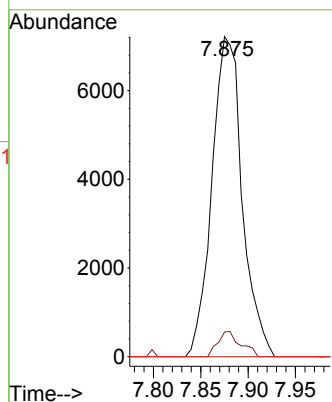
Tgt Ion:117 Resp: 16059

Ion Ratio Lower Upper

117 100

119 7.7 78.0 117.0#

121 0.0 24.2 36.2#



#49

1,4-Dioxane

Concen: 4.505 ug/l

RT: 9.269 min Scan# 1306

Delta R.T. -0.112 min

Lab File: VD078034.D

Acq: 21 Dec 2023 18:56

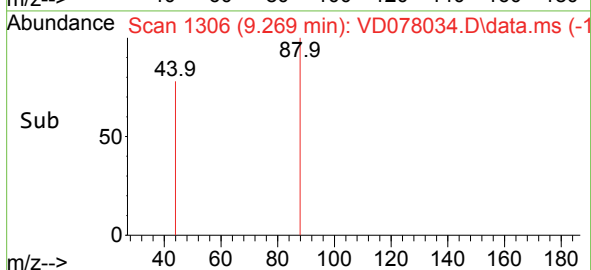
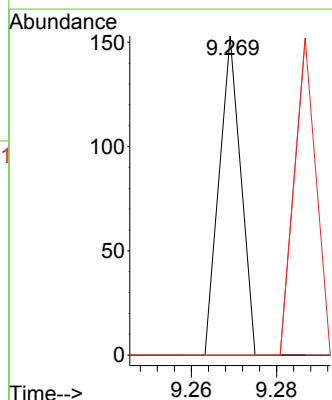
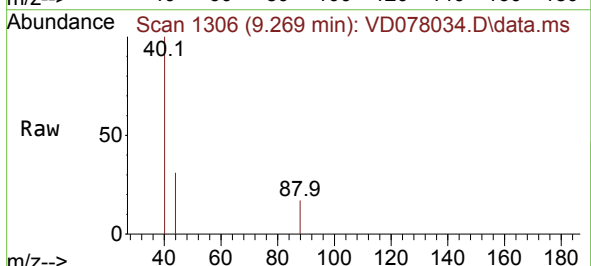
Tgt Ion: 88 Resp: 54

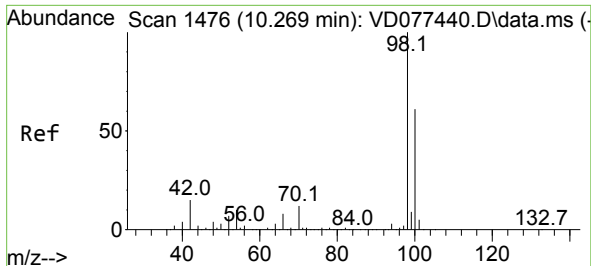
Ion Ratio Lower Upper

88 100

43 0.0 19.0 28.6#

58 0.0 43.5 65.3#

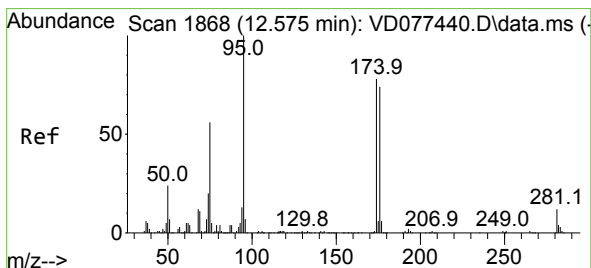
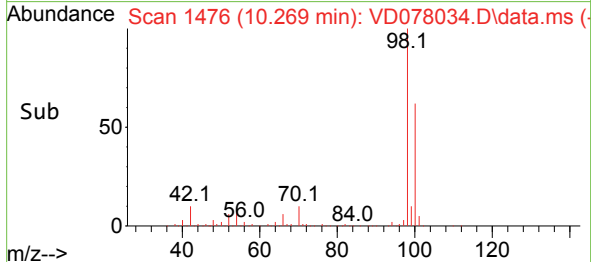
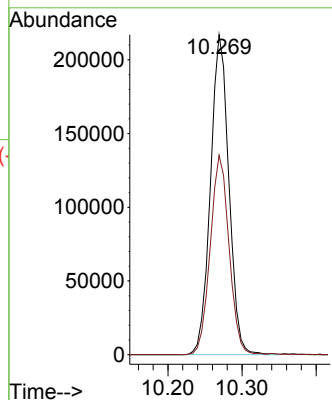
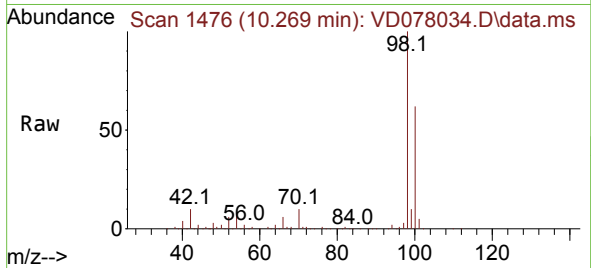




#50  
Toluene-d8  
Concen: 45.136 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD078034.D  
Acq: 21 Dec 2023 18:56

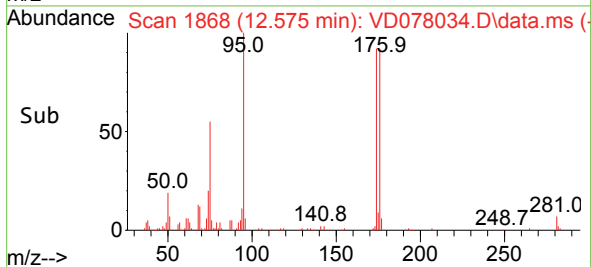
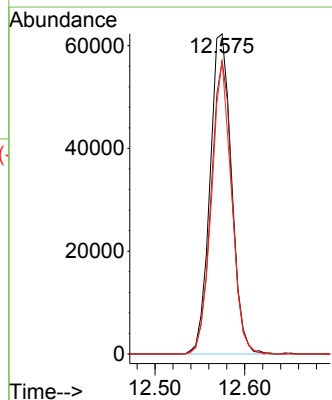
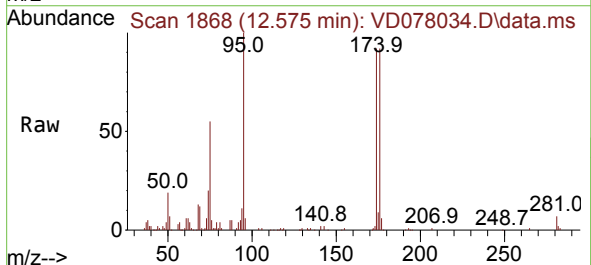
Instrument :  
MSVOA\_D  
ClientSampleId :

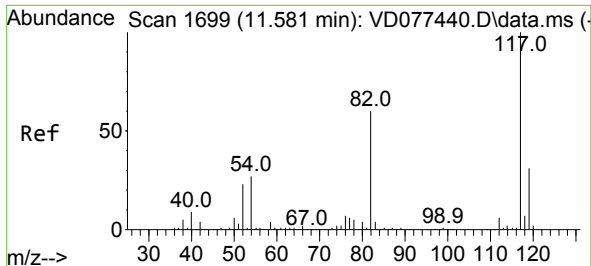
Tgt Ion: 98 Resp: 373669  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.3 75.5



#62  
4-Bromofluorobenzene  
Concen: 41.847 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD078034.D  
Acq: 21 Dec 2023 18:56

Tgt Ion: 95 Resp: 103578  
Ion Ratio Lower Upper  
95 100  
174 89.1 0.0 201.8  
176 84.8 0.0 191.8

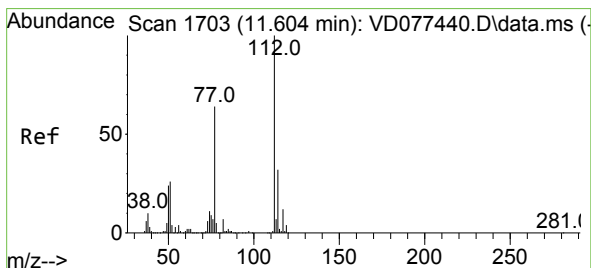
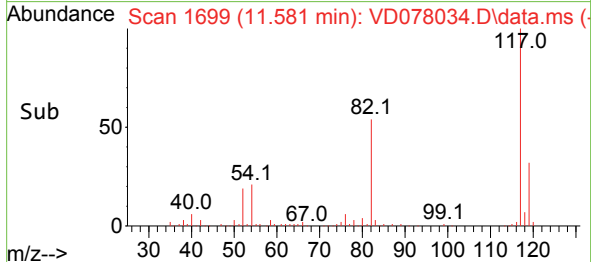
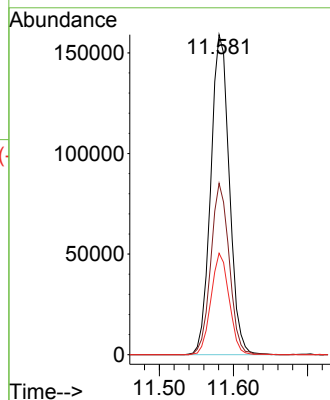
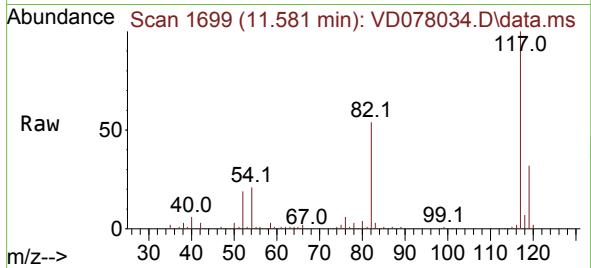




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD078034.D  
Acq: 21 Dec 2023 18:56

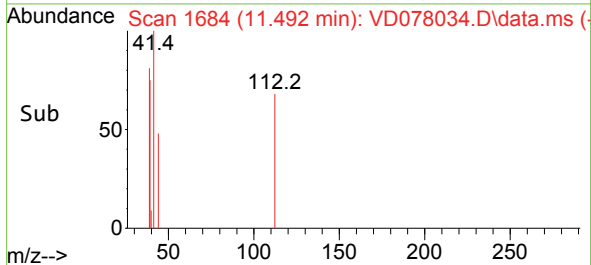
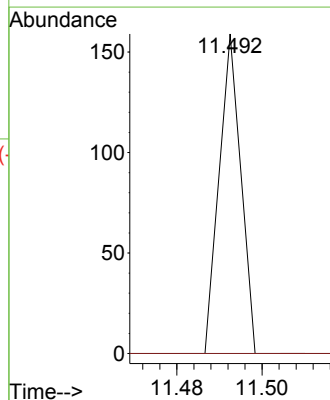
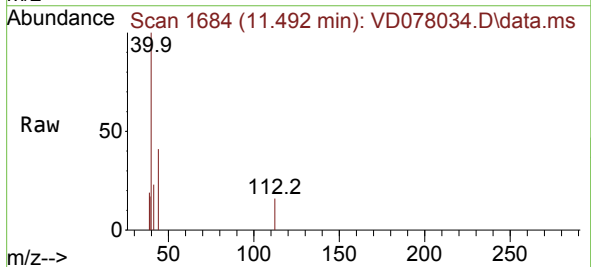
Instrument :  
MSVOA\_D  
ClientSampleId :

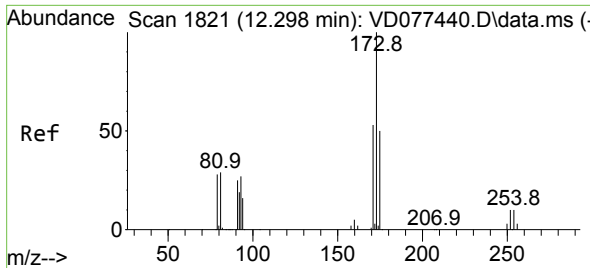
Tgt Ion:117 Resp: 276944  
Ion Ratio Lower Upper  
117 100  
82 53.6 38.3 57.5  
119 31.7 25.0 37.4



#65  
Chlorobenzene  
Concen: Below Cal  
RT: 11.492 min Scan# 1684  
Delta R.T. -0.112 min  
Lab File: VD078034.D  
Acq: 21 Dec 2023 18:56

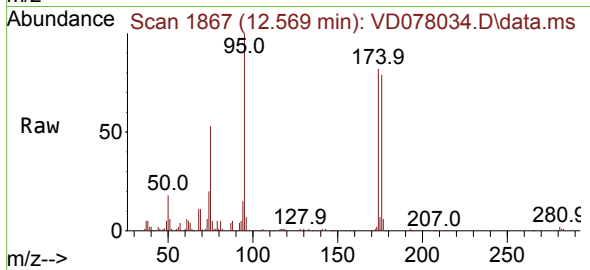
Tgt Ion:112 Resp: 56  
Ion Ratio Lower Upper  
112 100  
114 0.0 25.1 37.7#



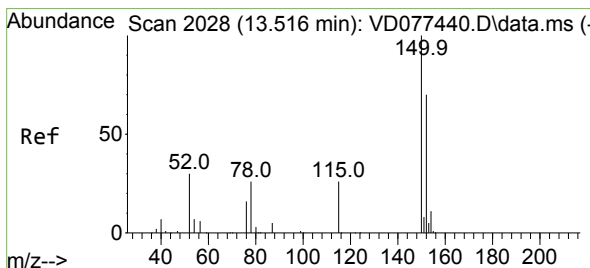
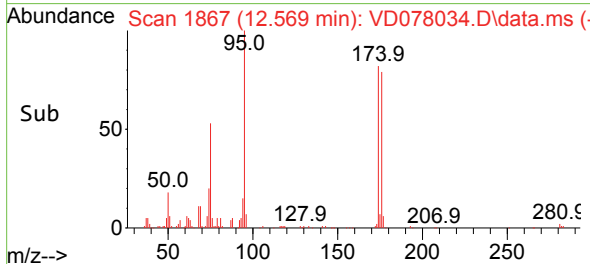
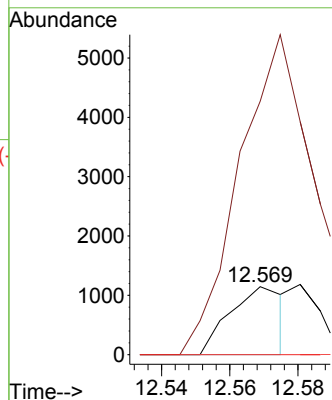


#71  
Bromoform  
Concen: 1.048 ug/l  
RT: 12.569 min Scan# 1821  
Delta R.T. 0.271 min  
Lab File: VD078034.D  
Acq: 21 Dec 2023 18:56

Instrument :  
MSVOA\_D  
ClientSampleId :

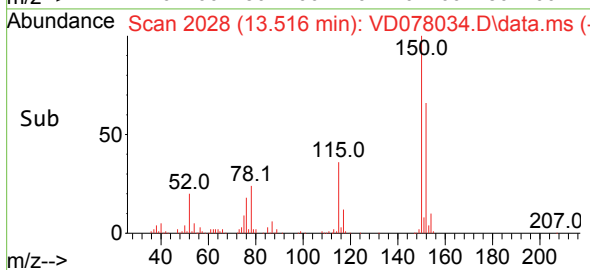
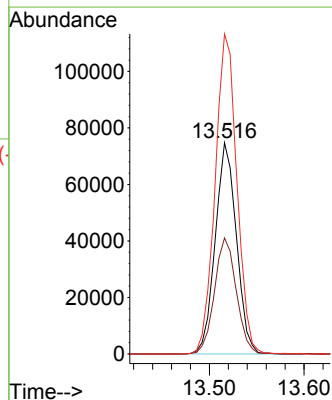
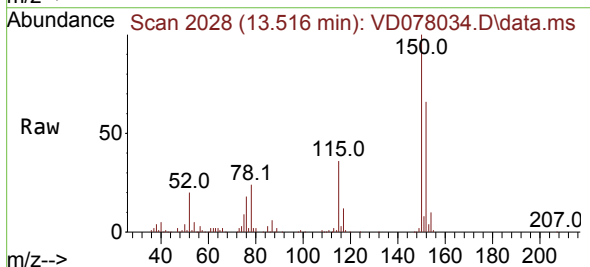


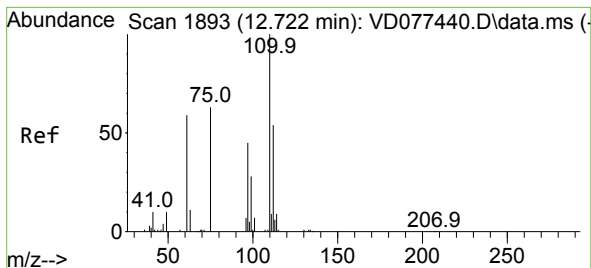
Tgt Ion:173 Resp: 1261  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.6 73.8#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. -0.000 min  
Lab File: VD078034.D  
Acq: 21 Dec 2023 18:56

Tgt Ion:152 Resp: 115959  
Ion Ratio Lower Upper  
152 100  
115 56.7 27.1 81.3  
150 155.8 0.0 353.6





#76

1,2,3-Trichloropropane

Concen: 56.125 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.147 min

Lab File: VD078034.D

Acq: 21 Dec 2023 18:56

Instrument :

MSVOA\_D

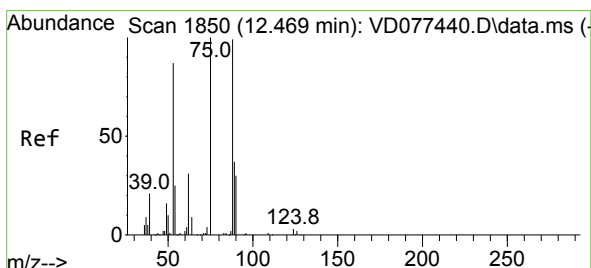
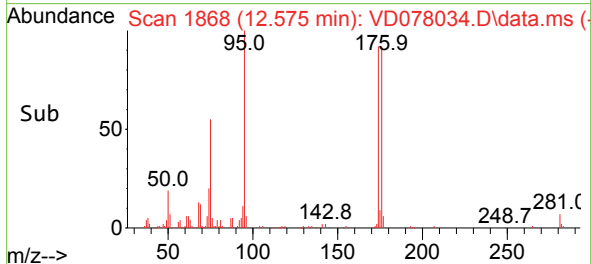
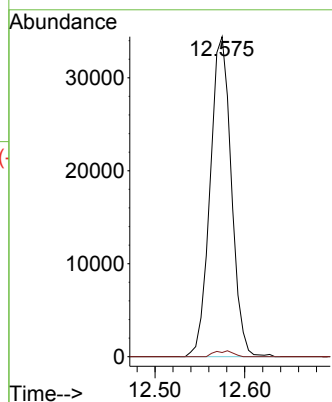
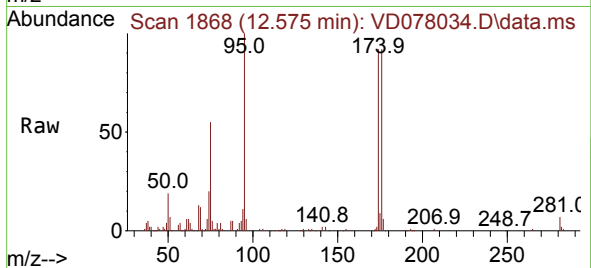
ClientSampleId :

Tgt Ion: 75 Resp: 56524

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 113.713 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. 0.106 min

Lab File: VD078034.D

Acq: 21 Dec 2023 18:56

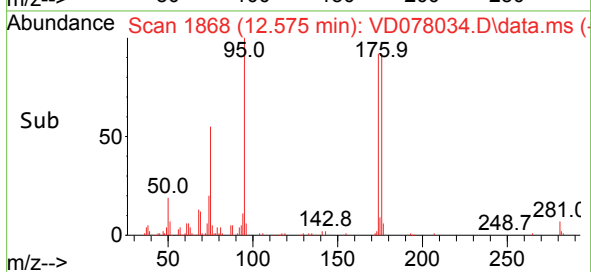
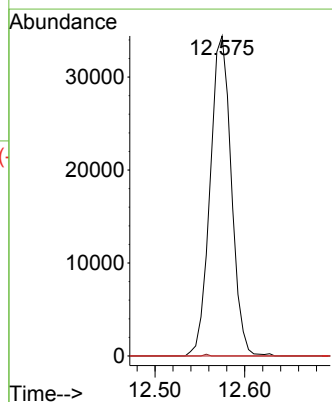
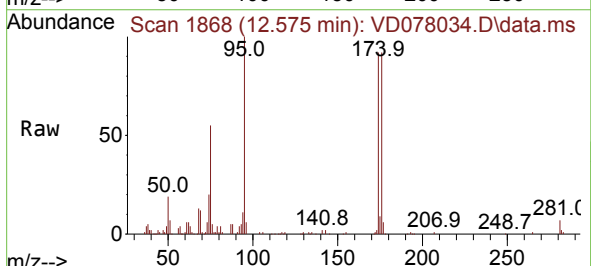
Tgt Ion: 75 Resp: 56524

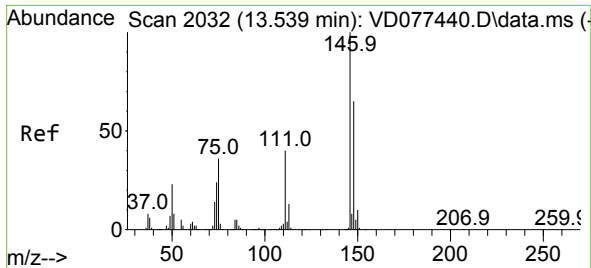
Ion Ratio Lower Upper

75 100

53 0.1 63.0 94.4#

89 0.0 37.9 56.9#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.522 min Scan# 20

Delta R.T. -0.017 min

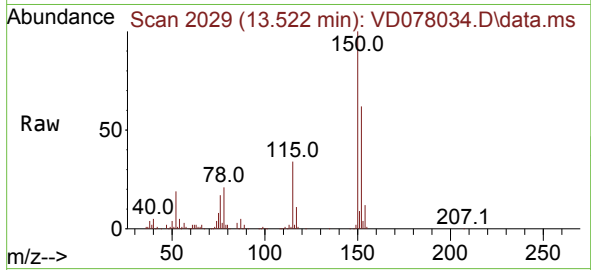
Lab File: VD078034.D

Acq: 21 Dec 2023 18:56

Instrument :

MSVOA\_D

ClientSampleId :



Tgt Ion:146 Resp: 61

Ion Ratio Lower Upper

146 100

111 2834.4 17.4 52.3#

148 736.1 31.7 95.1#

