

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121421\  
 Data File : VX025782.D  
 Acq On : 14 Dec 2021 17:20  
 Operator : JC/MD  
 Sample : M4988-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE109D1-20211206

Quant Time: Dec 15 07:06:47 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

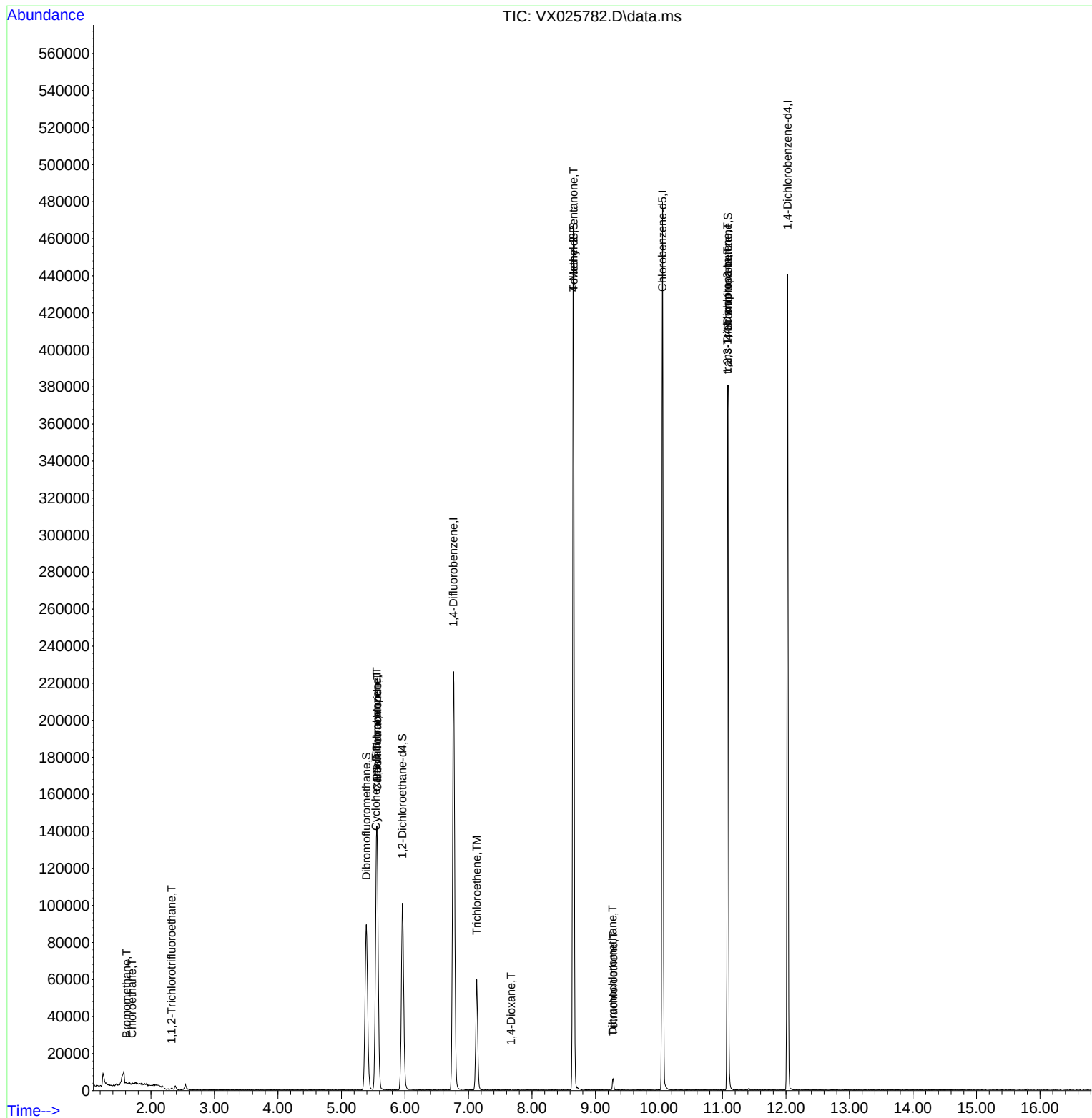
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 134537   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 233750   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 212074   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 87656    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 90927    | 46.973    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 93.940%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 75978    | 46.607    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 93.220%  |
| 50) Toluene-d8                | 8.653  | 98    | 275057   | 46.309    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 92.620%  |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 104036   | 46.110    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 92.220%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 1.618  | 94    | 250      | 0.210     | ug/l # | 46       |
| 6) Chloroethane               | 1.703  | 64    | 272      | 0.225     | ug/l # | 46       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.325  | 101   | 453      | 0.316     | ug/l # | 72       |
| 16) Acetone                   | 2.386  | 43    | 2063     | Below Cal | #      | 86       |
| 20) Methylene Chloride        | 2.800  | 84    | 53       | Below Cal | #      | 7        |
| 31) Cyclohexane               | 5.544  | 56    | 3126     | 1.328     | ug/l # | 37       |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 10533    | 4.765     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 14427    | 5.609     | ug/l # | 16       |
| 44) Trichloroethene           | 7.129  | 130   | 21518    | 11.720    | ug/l   | 98       |
| 49) 1,4-Dioxane               | 7.671  | 88    | 285      | 7.006     | ug/l # | 77       |
| 51) 4-Methyl-2-Pentanone      | 8.653  | 43    | 1310     | 0.506     | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.269  | 129   | 1095     | 0.535     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.281  | 164   | 1035     | 0.612     | ug/l # | 86       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 53367    | 26.573    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 53367    | 82.382    | ug/l # | 10       |
| -----                         |        |       |          |           |        |          |

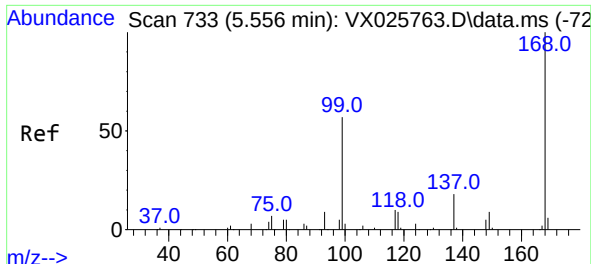
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121421\  
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Sample : M4988-02  
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Quant Title : SW846 8260  
QLast Update : Tue Dec 14 07:02:11 2021  
Response via : Initial Calibration

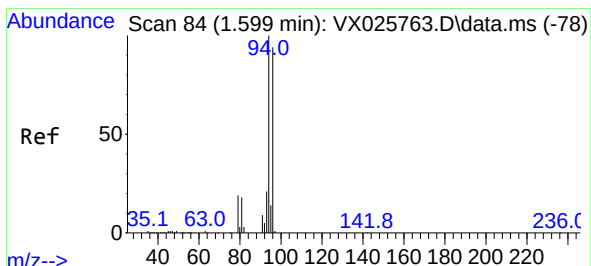
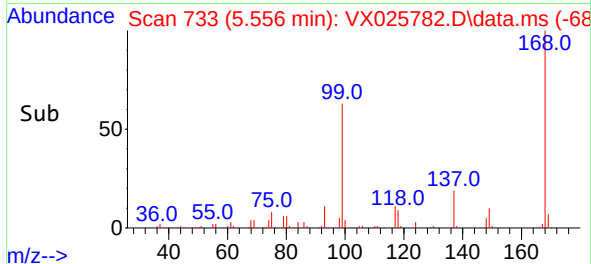
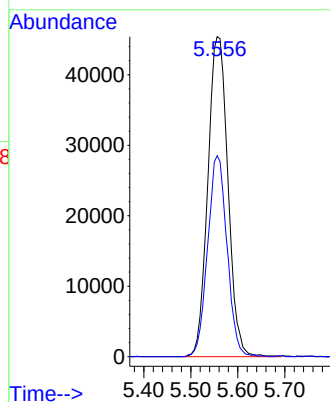
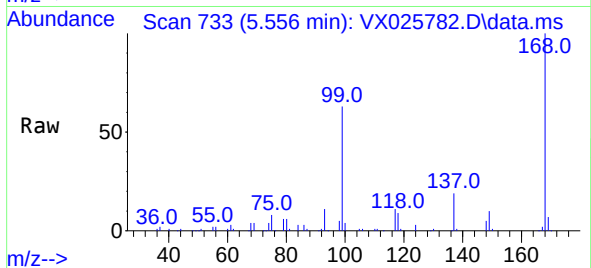




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

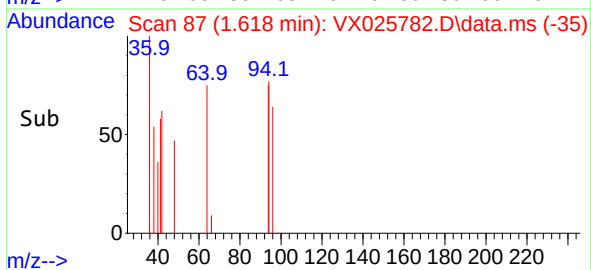
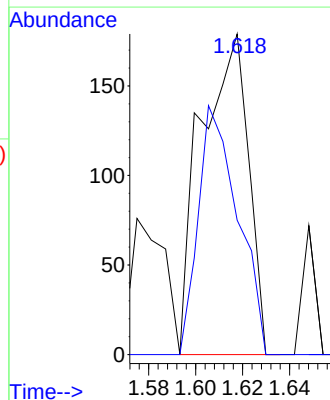
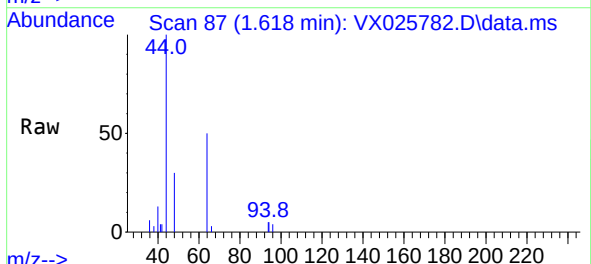
Instrument :  
MSVOA\_X  
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RE109D1-20211206

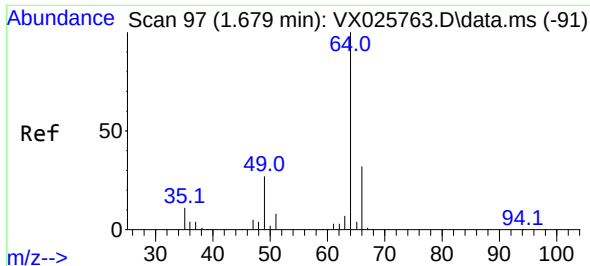
Tgt Ion:168 Resp: 134537  
Ion Ratio Lower Upper  
168 100  
99 62.8 45.8 68.8



#5  
Bromomethane  
Concen: 0.210 ug/l  
RT: 1.618 min Scan# 87  
Delta R.T. 0.018 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

Tgt Ion: 94 Resp: 250  
Ion Ratio Lower Upper  
94 100  
96 41.9 75.0 112.4#

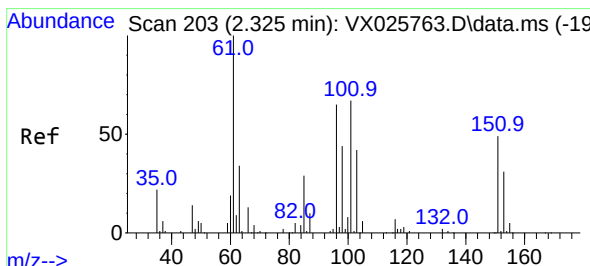
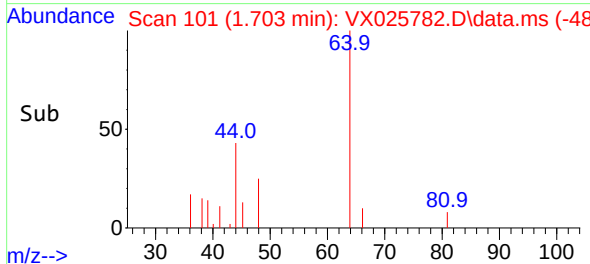
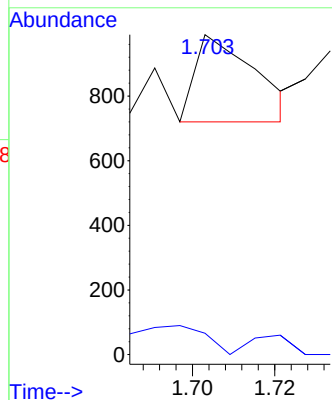
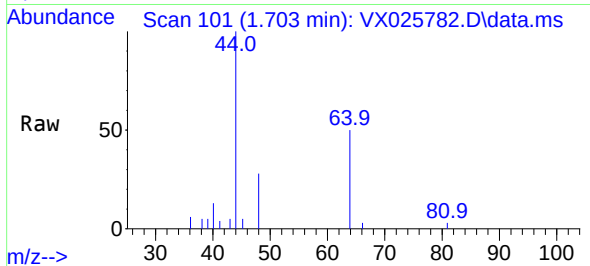




#6  
Chloroethane  
Concen: 0.225 ug/l  
RT: 1.703 min Scan# 101  
Delta R.T. 0.024 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

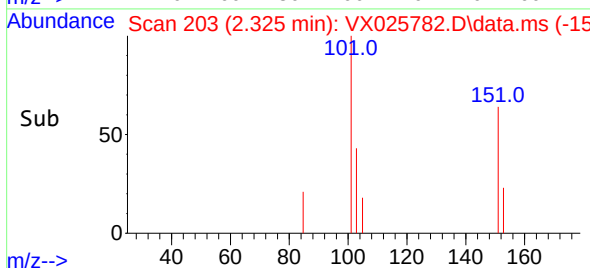
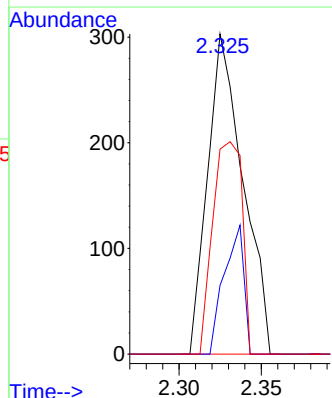
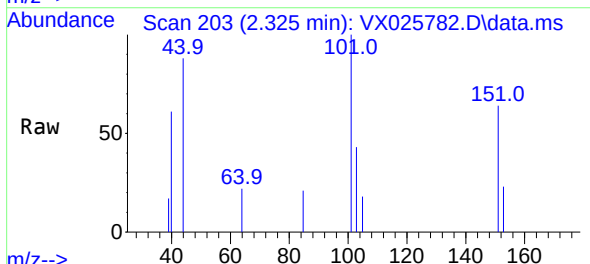
Instrument :  
MSVOA\_X  
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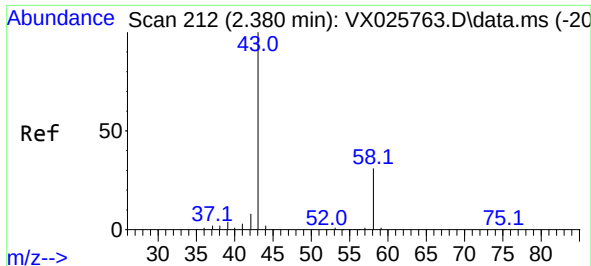
Tgt Ion: 64 Resp: 272  
Ion Ratio Lower Upper  
64 100  
66 2.2 25.9 38.9#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.316 ug/l  
RT: 2.325 min Scan# 203  
Delta R.T. 0.000 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

Tgt Ion: 101 Resp: 453  
Ion Ratio Lower Upper  
101 100  
85 22.5 36.5 54.7#  
151 55.2 60.6 90.8#

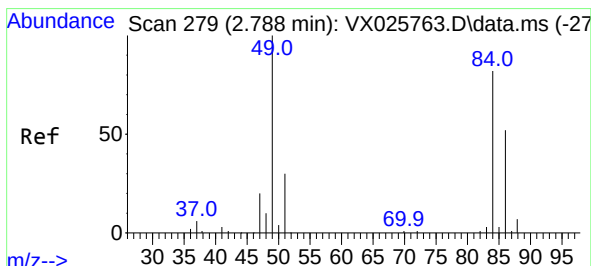
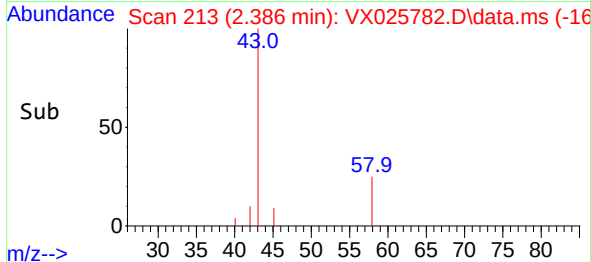
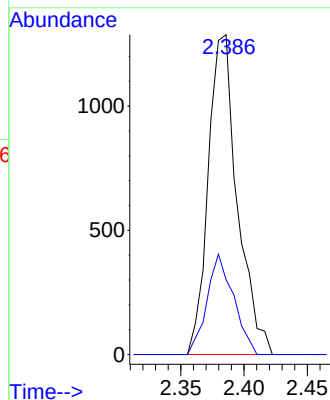
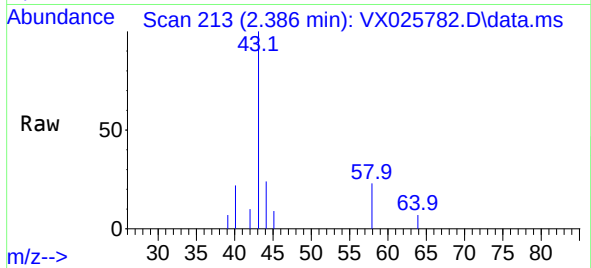




#16  
Acetone  
Concen: Below Cal  
RT: 2.386 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

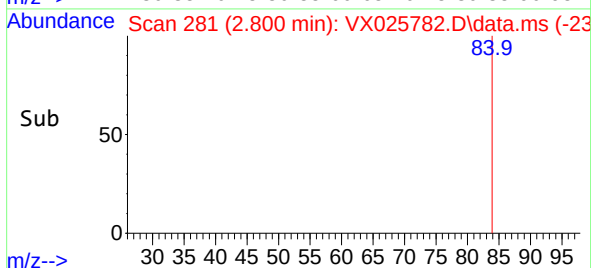
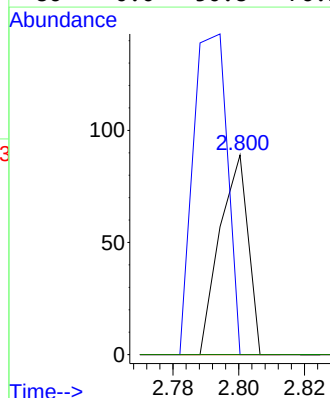
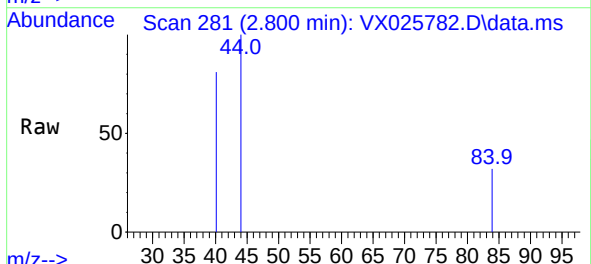
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE109D1-20211206

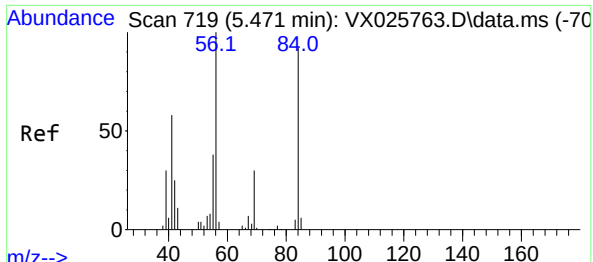
Tgt Ion: 43 Resp: 2063  
Ion Ratio Lower Upper  
43 100  
58 23.4 24.8 37.2#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.800 min Scan# 281  
Delta R.T. 0.012 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

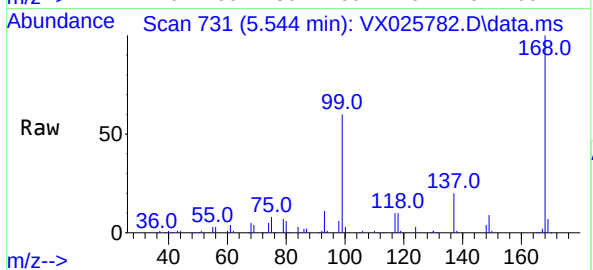
Tgt Ion: 84 Resp: 53  
Ion Ratio Lower Upper  
84 100  
49 0.0 97.1 145.7#  
51 0.0 29.3 43.9#  
86 0.0 50.8 76.2#



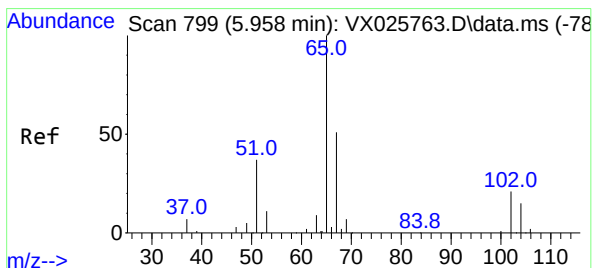
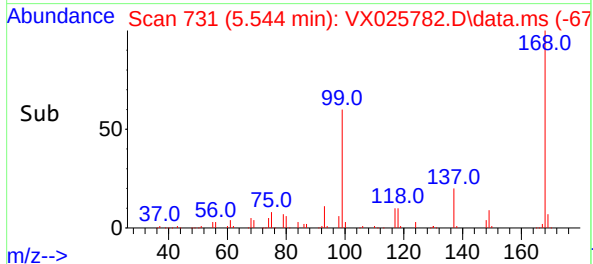
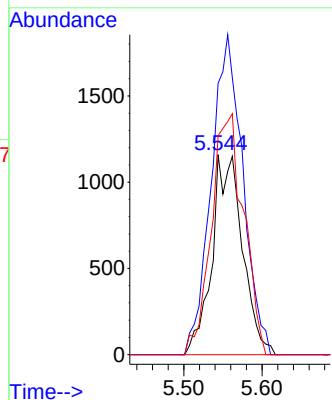


#31  
Cyclohexane  
Concen: 1.328 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE109D1-20211206

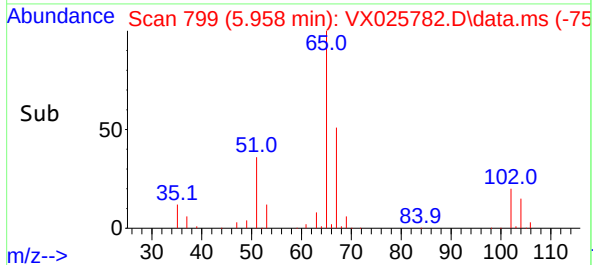
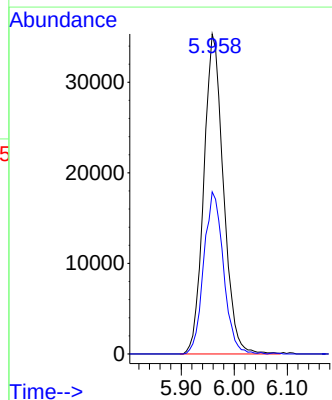
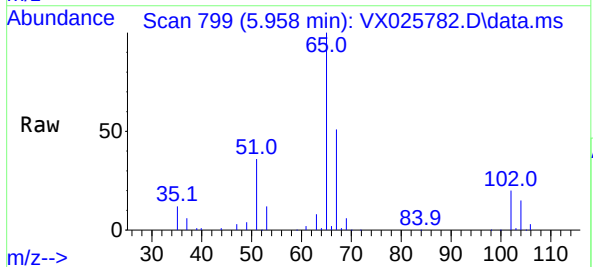


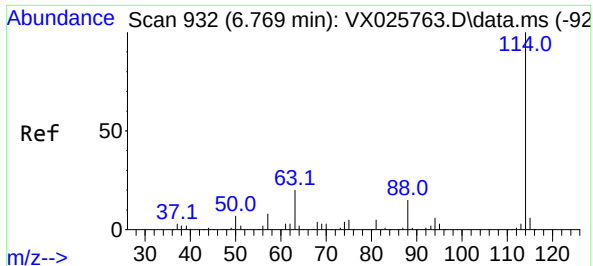
Tgt Ion: 56 Resp: 3126  
Ion Ratio Lower Upper  
56 100  
69 135.8 23.9 35.9#  
84 109.6 73.2 109.8



#33  
1,2-Dichloroethane-d4  
Concen: 46.973 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

Tgt Ion: 65 Resp: 90927  
Ion Ratio Lower Upper  
65 100  
67 50.8 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX025782.D

Acq: 14 Dec 2021 17:20

Instrument :

MSVOA\_X

ClientSampleId :

RE109D1-20211206

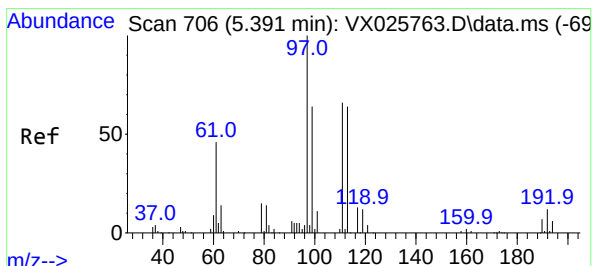
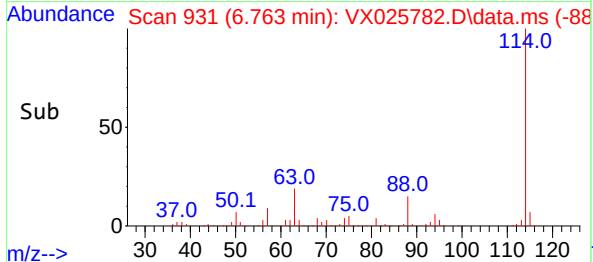
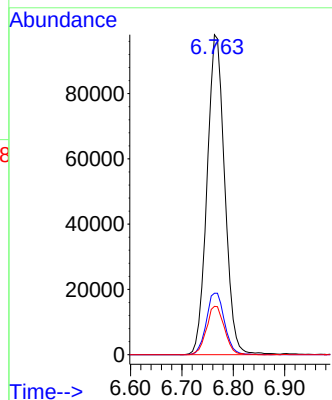
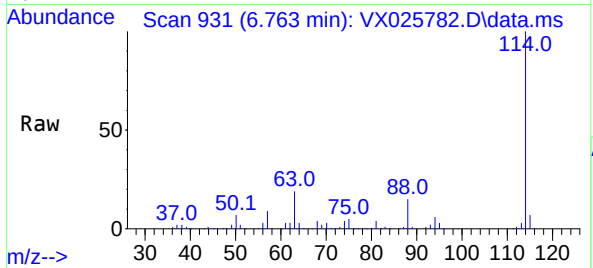
Tgt Ion:114 Resp: 233750

Ion Ratio Lower Upper

114 100

63 19.2 0.0 40.0

88 15.1 0.0 30.6



#35

Dibromofluoromethane

Concen: 46.607 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

Lab File: VX025782.D

Acq: 14 Dec 2021 17:20

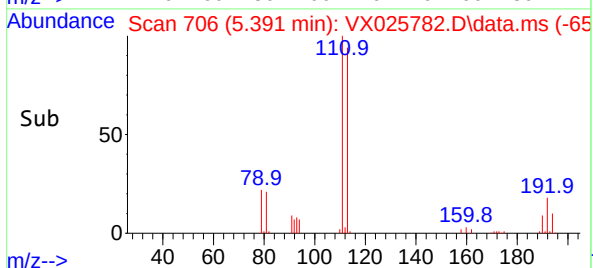
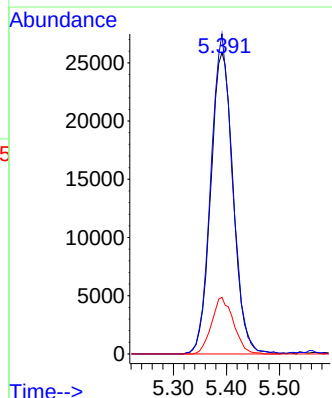
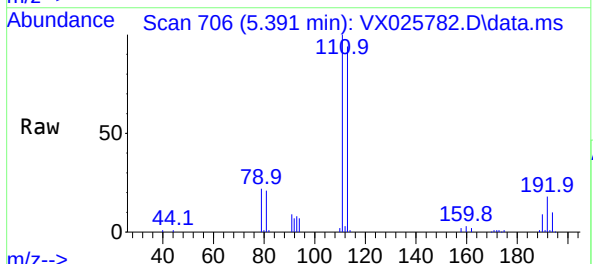
Tgt Ion:113 Resp: 75978

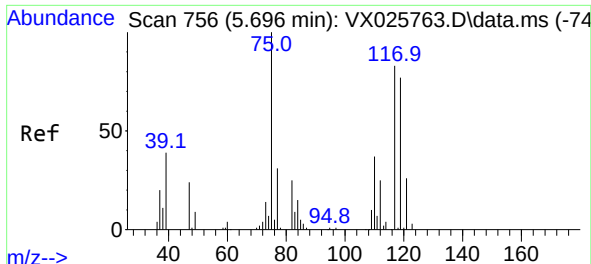
Ion Ratio Lower Upper

113 100

111 102.9 81.8 122.8

192 18.3 15.0 22.4

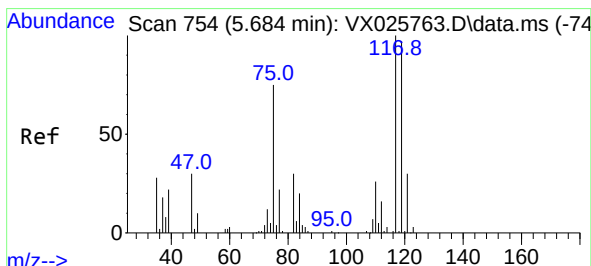
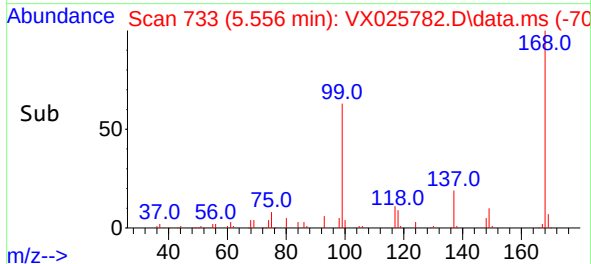
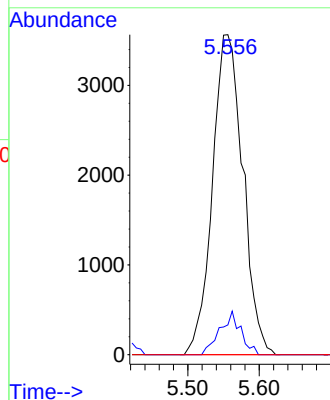
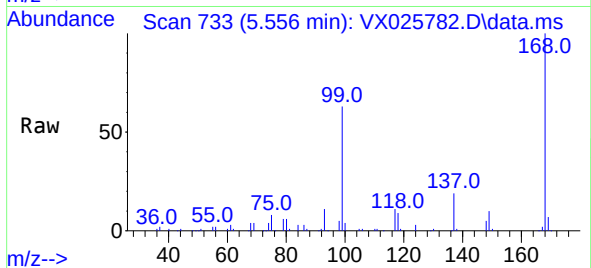




#36  
1,1-Dichloropropene  
Concen: 4.765 ug/l  
RT: 5.556 min Scan# 714  
Delta R.T. -0.140 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

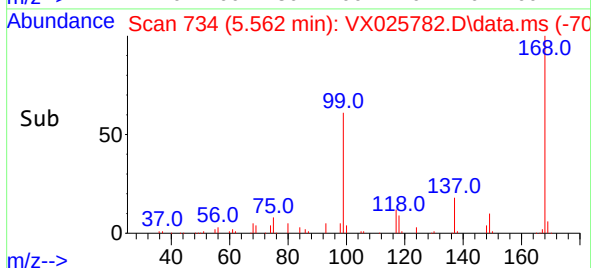
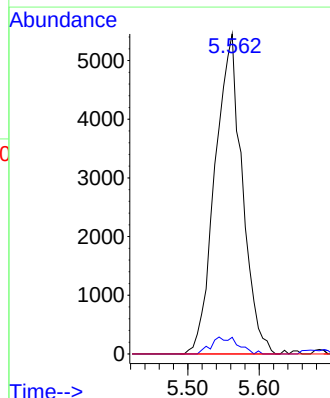
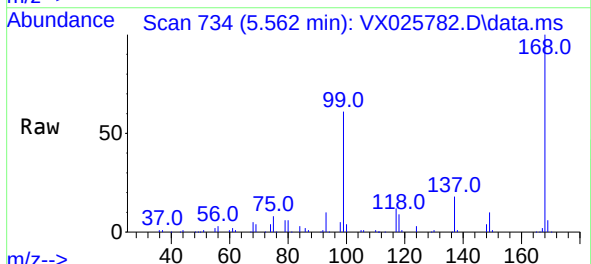
Instrument :  
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Tgt Ion: 75 Resp: 10533  
Ion Ratio Lower Upper  
75 100  
110 9.3 18.2 54.6#  
77 0.0 24.7 37.1#

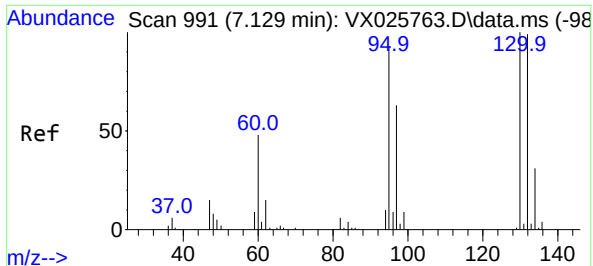


#38  
Carbon Tetrachloride  
Concen: 5.609 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.122 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

Tgt Ion: 117 Resp: 14427  
Ion Ratio Lower Upper  
117 100  
119 5.2 77.2 115.8#  
121 0.0 23.8 35.8#



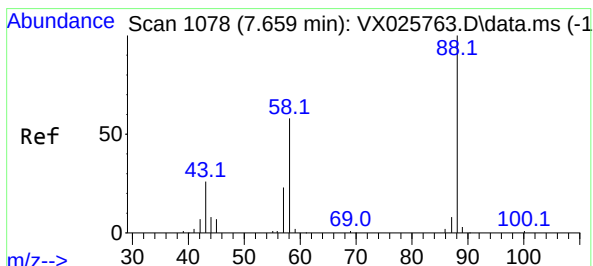
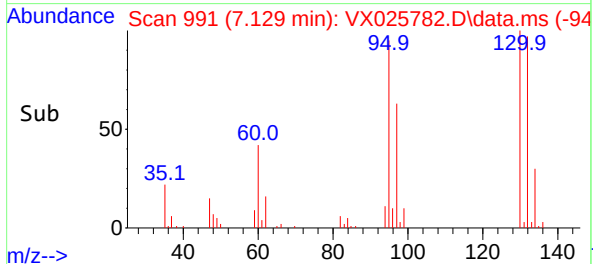
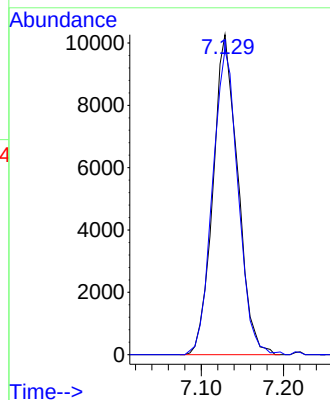
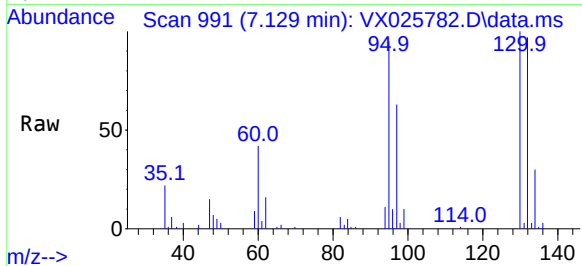




#44  
Trichloroethene  
Concen: 11.720 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. 0.000 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

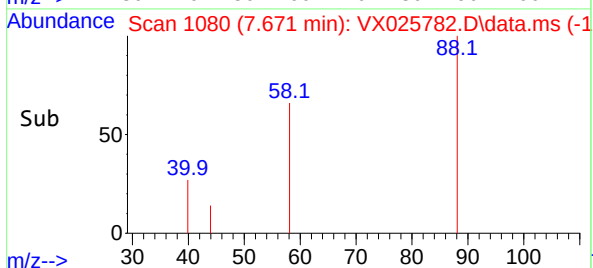
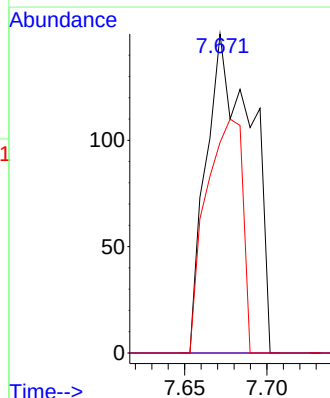
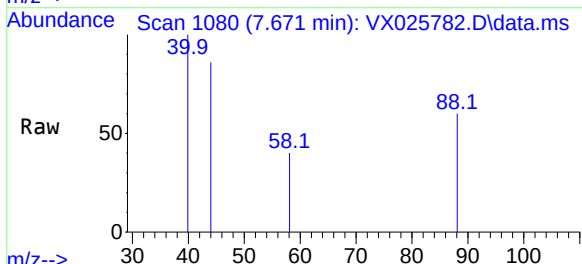
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE109D1-20211206

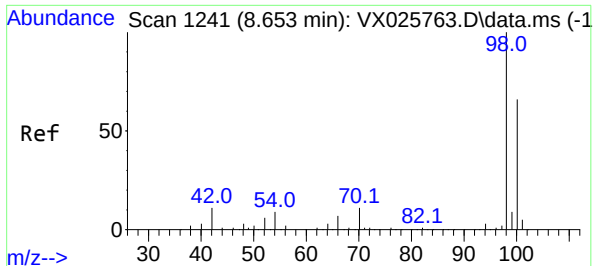
Tgt Ion:130 Resp: 21518  
Ion Ratio Lower Upper  
130 100  
95 95.3 0.0 186.4



#49  
1,4-Dioxane  
Concen: 7.006 ug/l  
RT: 7.671 min Scan# 1080  
Delta R.T. 0.012 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

Tgt Ion: 88 Resp: 285  
Ion Ratio Lower Upper  
88 100  
43 0.0 25.3 37.9#  
58 59.3 51.8 77.6

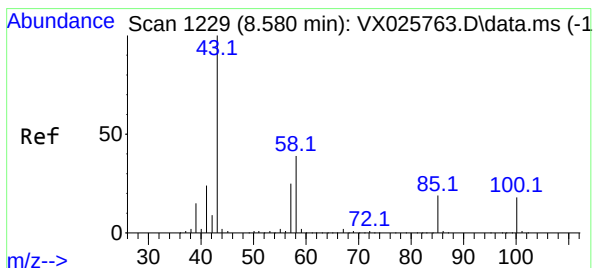
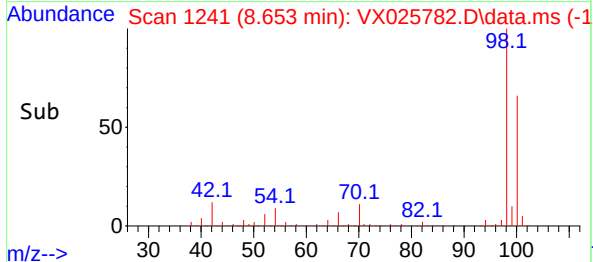
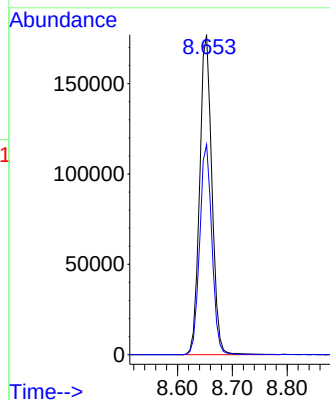
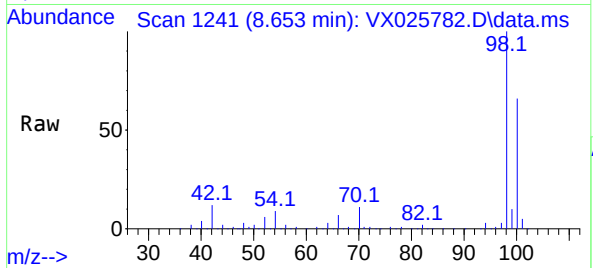




#50  
Toluene-d8  
Concen: 46.309 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.000 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

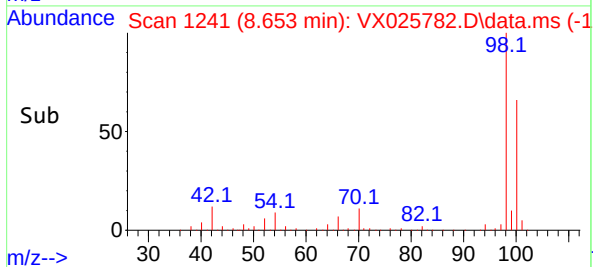
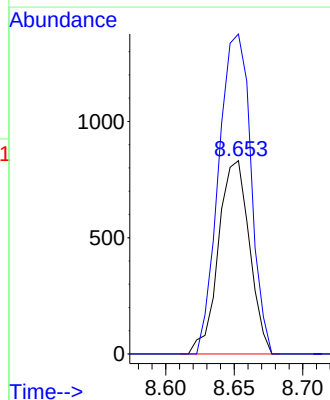
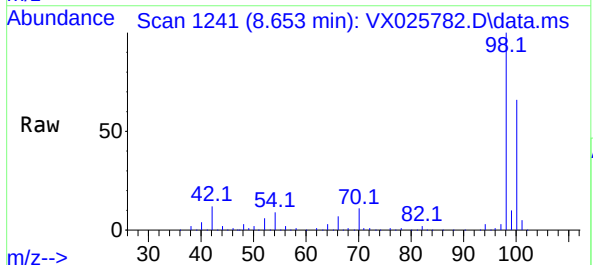
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE109D1-20211206

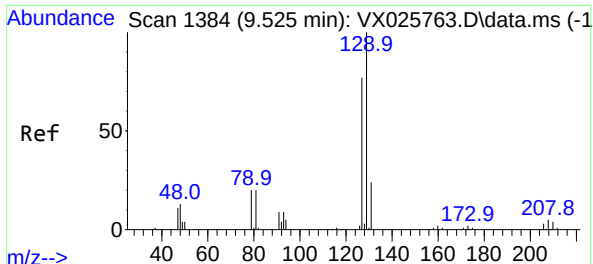
Tgt Ion: 98 Resp: 275057  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 0.506 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.073 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

Tgt Ion: 43 Resp: 1310  
Ion Ratio Lower Upper  
43 100  
58 171.8 30.8 46.2#





#60

Dibromochloromethane

Concen: 0.535 ug/l

RT: 9.269 min Scan# 11

Delta R.T. -0.256 min

Lab File: VX025782.D

Acq: 14 Dec 2021 17:20

Instrument :

MSVOA\_X

ClientSampleId :

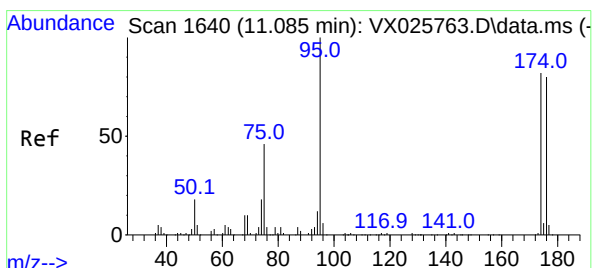
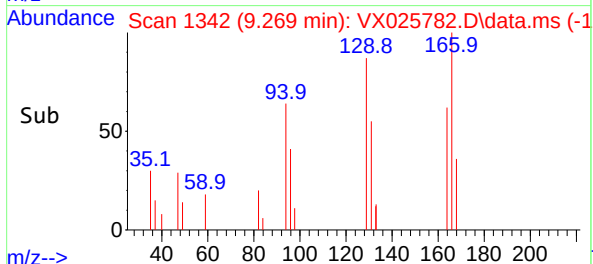
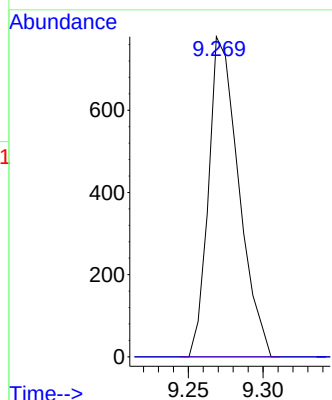
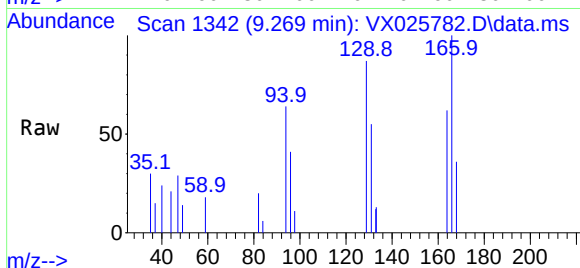
RE109D1-20211206

Tgt Ion:129 Resp: 1095

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.7#



#62

4-Bromofluorobenzene

Concen: 46.110 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.000 min

Lab File: VX025782.D

Acq: 14 Dec 2021 17:20

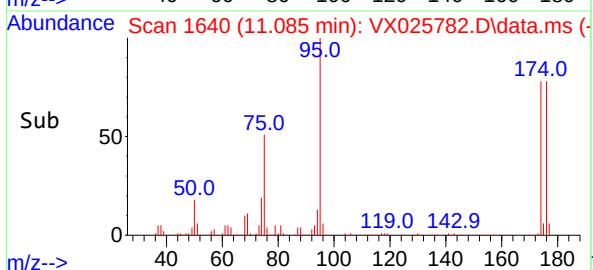
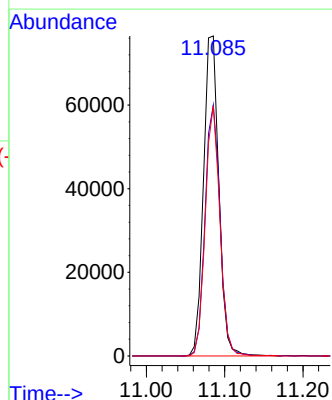
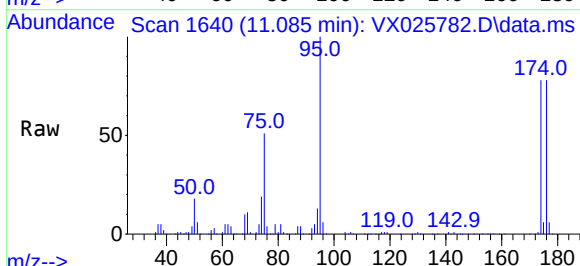
Tgt Ion: 95 Resp: 104036

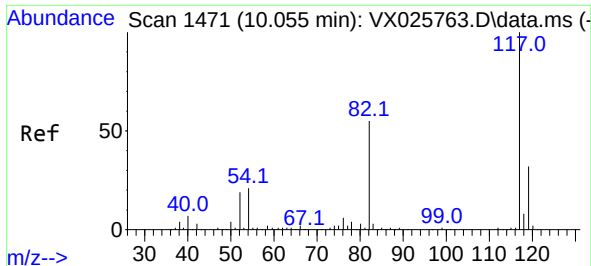
Ion Ratio Lower Upper

95 100

174 77.0 0.0 157.4

176 74.5 0.0 154.6

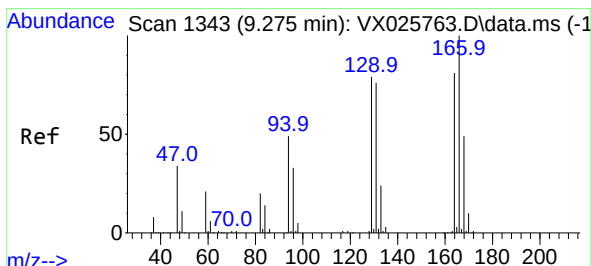
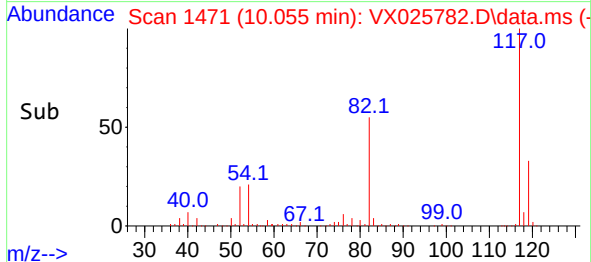
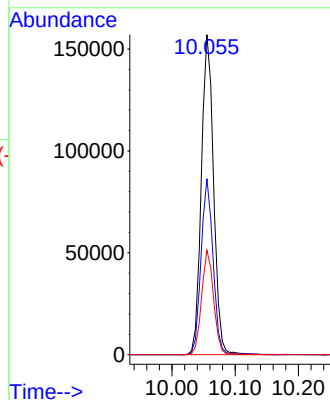
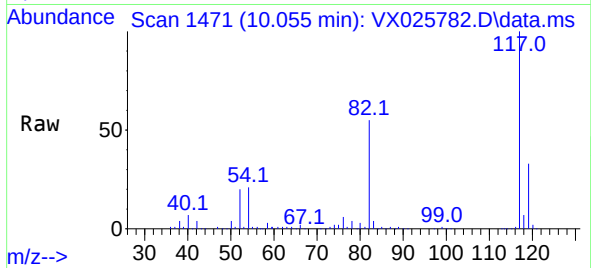




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

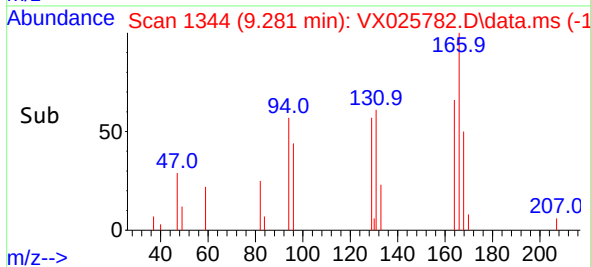
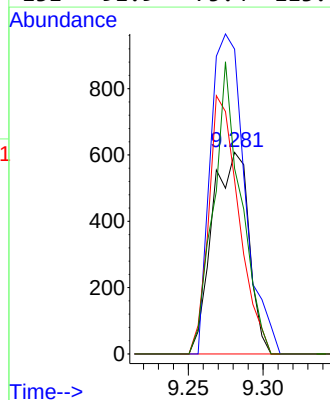
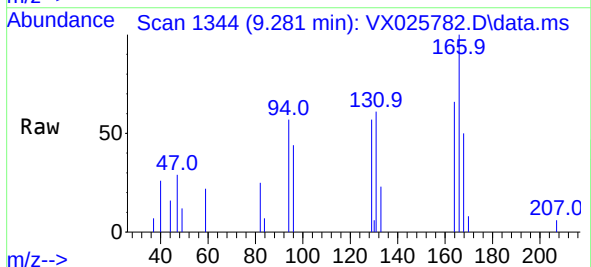
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE109D1-20211206

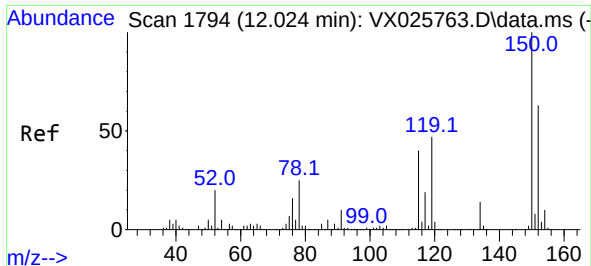
Tgt Ion:117 Resp: 212074  
Ion Ratio Lower Upper  
117 100  
82 55.0 43.8 65.6  
119 32.6 25.2 37.8



#64  
Tetrachloroethene  
Concen: 0.612 ug/l  
RT: 9.281 min Scan# 1344  
Delta R.T. 0.006 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

Tgt Ion:164 Resp: 1035  
Ion Ratio Lower Upper  
164 100  
166 151.2 99.4 149.0#  
129 86.0 78.6 118.0  
131 91.9 75.4 113.0

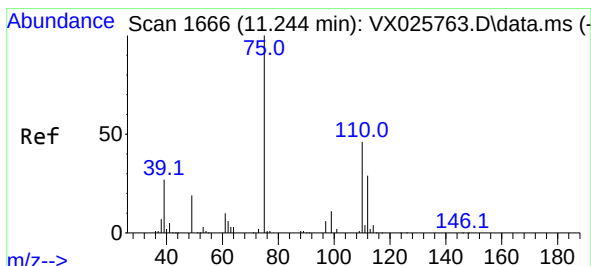
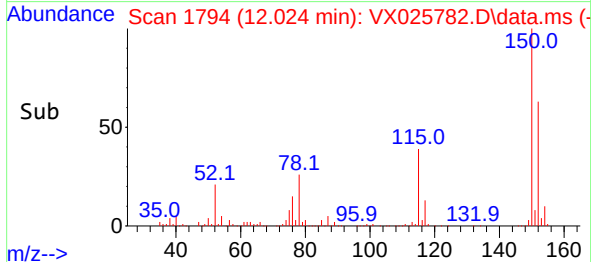
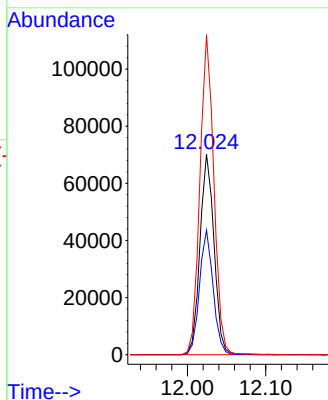
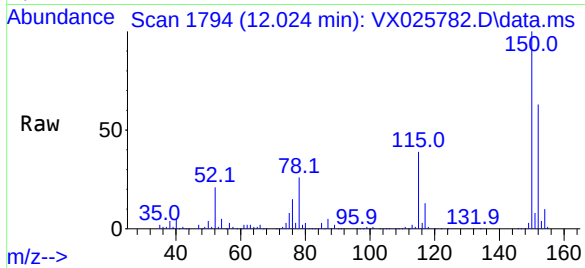




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

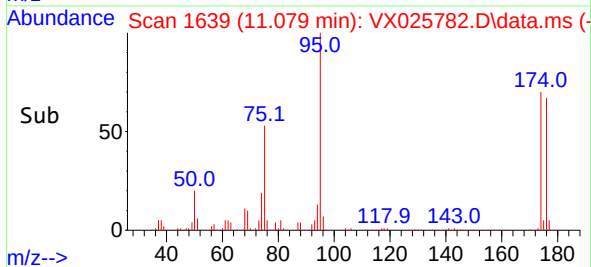
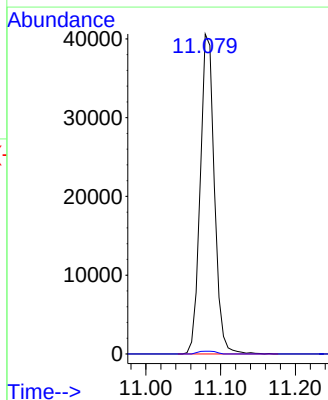
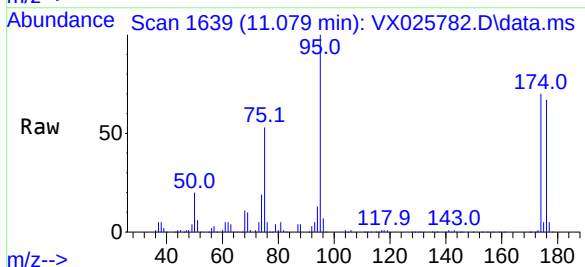
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE109D1-20211206

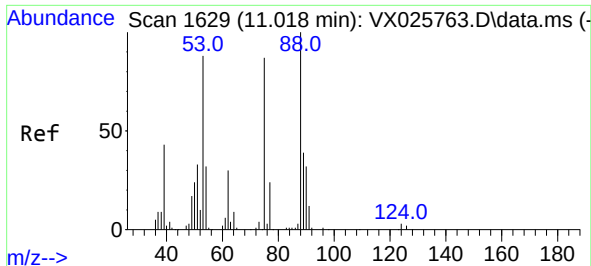
Tgt Ion:152 Resp: 87656  
Ion Ratio Lower Upper  
152 100  
115 60.3 41.3 123.9  
150 157.8 0.0 351.8



#76  
1,2,3-Trichloropropane  
Concen: 26.573 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX025782.D  
Acq: 14 Dec 2021 17:20

Tgt Ion: 75 Resp: 53367  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.0 57.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 82.382 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX025782.D  
 Acq: 14 Dec 2021 17:20

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE109D1-20211206

Tgt Ion: 75 Resp: 53367  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 79.5 119.3#  
 89 0.2 38.3 57.5#

