

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120924\  
 Data File : VX044188.D  
 Acq On : 09 Dec 2024 15:17  
 Operator : JC/MD  
 Sample : P5164-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE108D1-20241206

Quant Time: Dec 10 01:43:30 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112124W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 22 03:45:52 2024  
 Response via : Initial Calibration

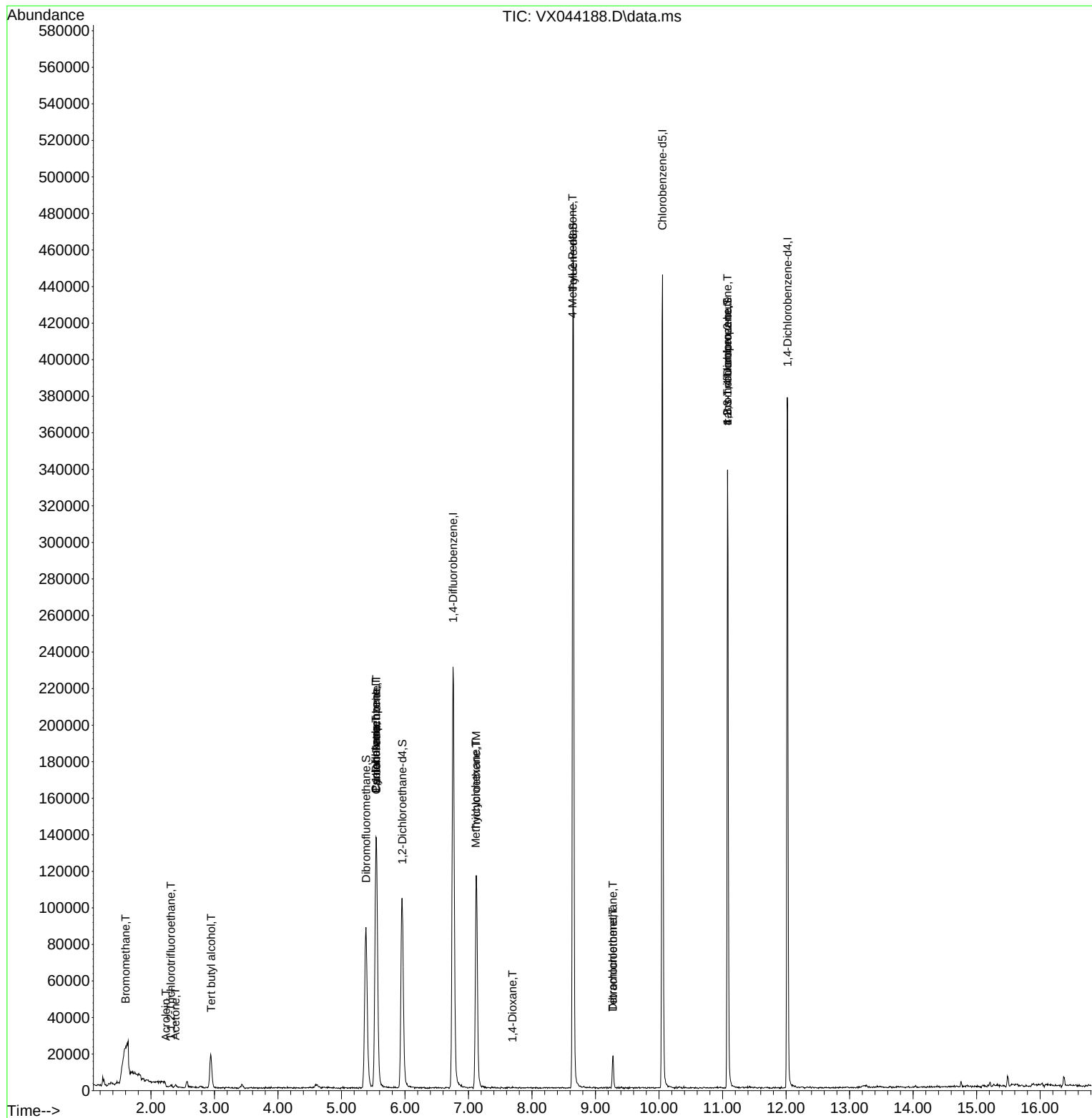
| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.543     | 168   | 120459   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757     | 114   | 226191   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 192858   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 74622    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.958     | 65    | 104646   | 50.650   | ug/l       | 0.01     |
| Spiked Amount                 | 50.000    | Range | 74 - 125 | Recovery | = 101.300% |          |
| 35) Dibromofluoromethane      | 5.385     | 113   | 75400    | 46.651   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery | = 93.300%  |          |
| 50) Toluene-d8                | 8.646     | 98    | 275938   | 49.528   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 86 - 113 | Recovery | = 99.060%  |          |
| 62) 4-Bromofluorobenzene      | 11.079    | 95    | 88621    | 46.739   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 77 - 121 | Recovery | = 93.480%  |          |
| Target Compounds              |           |       |          |          |            |          |
|                               |           |       |          |          | Qvalue     |          |
| 5) Bromomethane               | 1.599     | 94    | 681      | 0.648    | ug/l #     | 5        |
| 9) 1,1,2-Trichlorotrifluo...  | 2.312     | 101   | 478      | 0.328    | ug/l #     | 76       |
| 11) Tert butyl alcohol        | 2.946     | 59    | 10160    | 30.637   | ug/l #     | 77       |
| 13) Acrolein                  | 2.233     | 56    | 99       | 0.283    | ug/l #     | 13       |
| 16) Acetone                   | 2.385     | 43    | 1505     | 1.586    | ug/l       | 99       |
| 31) Cyclohexane               | 5.543     | 56    | 3631     | 1.577    | ug/l #     | 40       |
| 36) 1,1-Dichloropropene       | 5.543     | 75    | 12284    | 6.099    | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 5.549     | 117   | 14435    | 6.379    | ug/l #     | 17       |
| 39) Methylcyclohexane         | 7.116     | 83    | 625      | 0.239    | ug/l #     | 1        |
| 44) Trichloroethene           | 7.122     | 130   | 43452    | 24.467   | ug/l       | 99       |
| 49) 1,4-Dioxane               | 7.689     | 88    | 128      | 3.764    | ug/l #     | 64       |
| 51) 4-Methyl-2-Pentanone      | 8.640     | 43    | 1440     | 0.593    | ug/l #     | 1        |
| 60) Dibromochloromethane      | 9.274     | 129   | 2923     | 1.880    | ug/l #     | 11       |
| 64) Tetrachloroethene         | 9.274     | 164   | 2879     | 2.264    | ug/l       | 94       |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75    | 51499    | 31.470   | ug/l #     | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75    | 51499    | 85.874   | ug/l #     | 6        |
| -----                         |           |       |          |          |            |          |

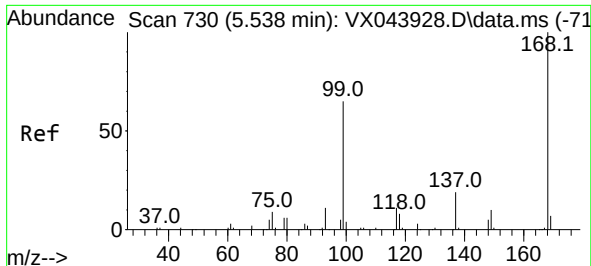
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120924\  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112124W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 22 03:45:52 2024  
Response via : Initial Calibration

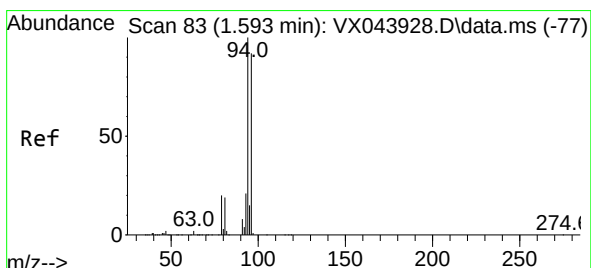
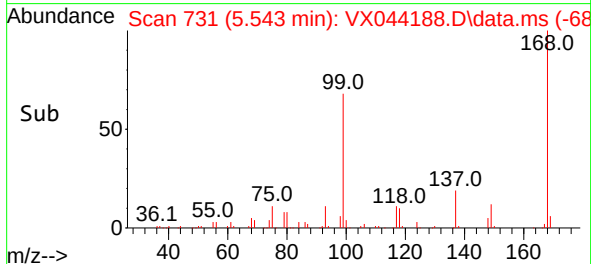
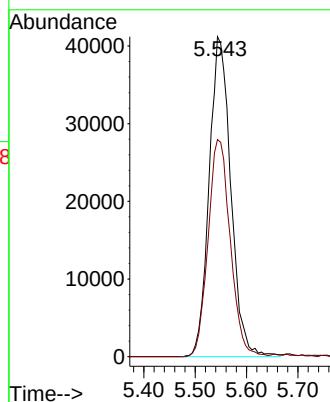
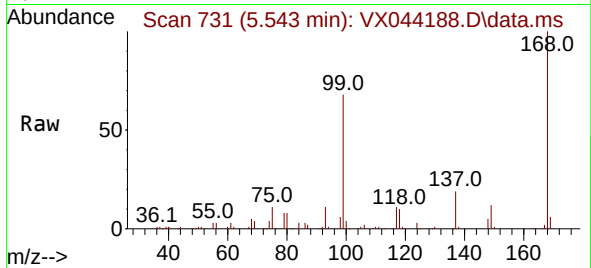




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.543 min Scan# 71  
Delta R.T. 0.005 min  
Lab File: VX044188.D  
Acq: 09 Dec 2024 15:17

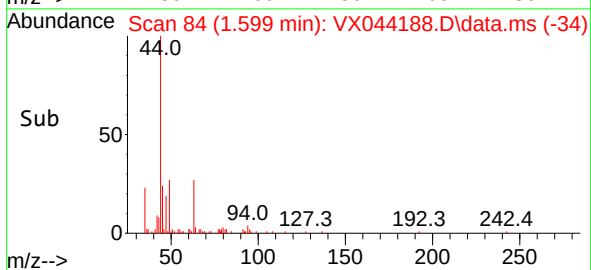
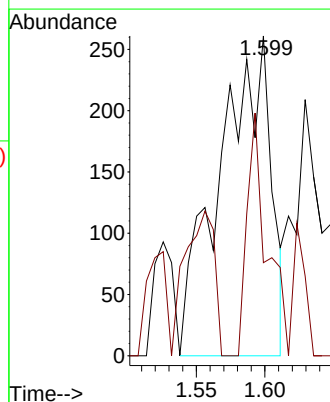
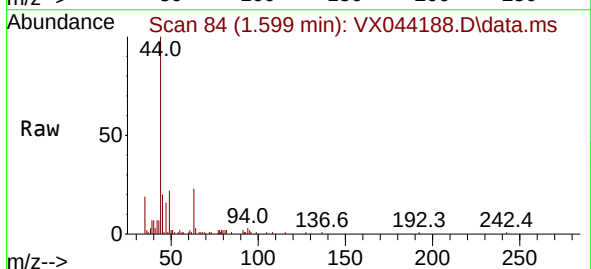
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20241206

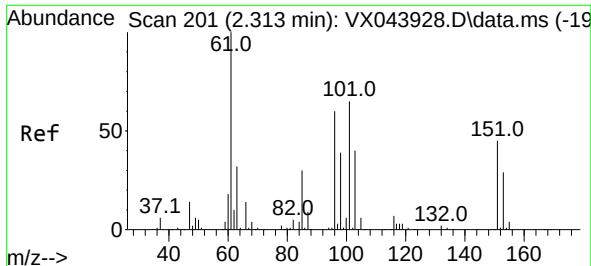
Tgt Ion:168 Resp: 120459  
Ion Ratio Lower Upper  
168 100  
99 67.9 51.8 77.8



#5  
Bromomethane  
Concen: 0.648 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.006 min  
Lab File: VX044188.D  
Acq: 09 Dec 2024 15:17

Tgt Ion: 94 Resp: 681  
Ion Ratio Lower Upper  
94 100  
96 1.5 73.9 110.9#

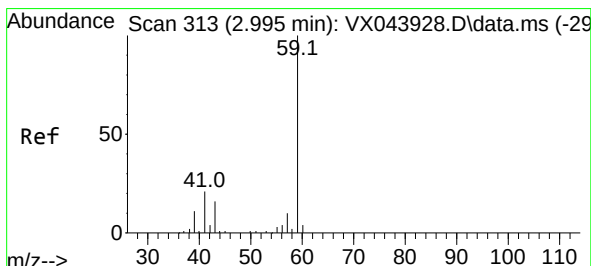
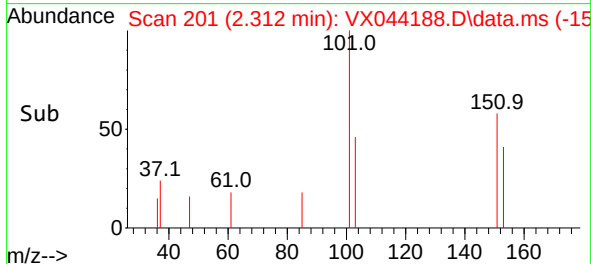
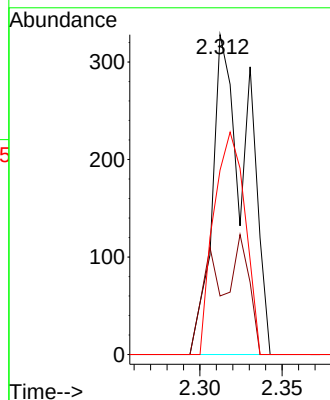
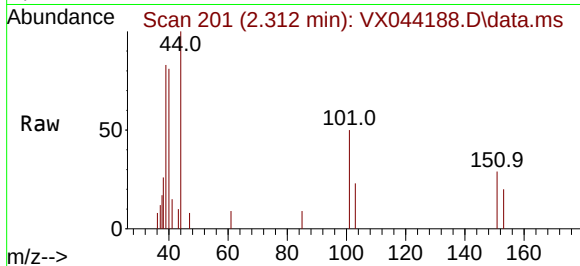




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.328 ug/l  
RT: 2.312 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VX044188.D  
Acq: 09 Dec 2024 15:17

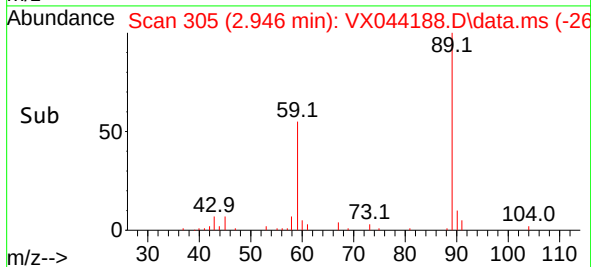
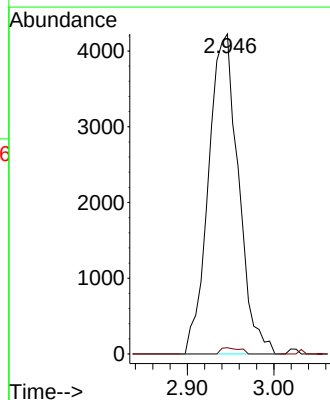
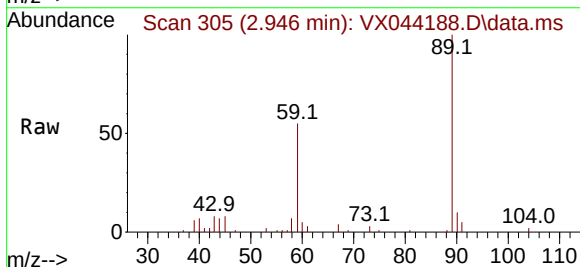
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20241206

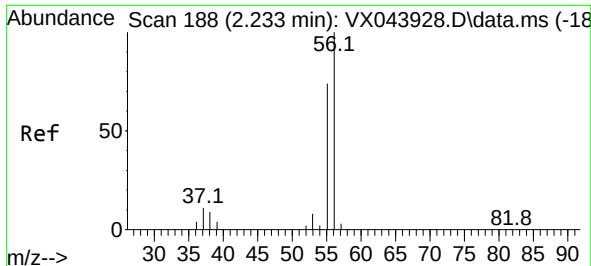
Tgt Ion:101 Resp: 478  
Ion Ratio Lower Upper  
101 100  
85 17.2 37.9 56.9#  
151 63.2 57.5 86.3



#11  
Tert butyl alcohol  
Concen: 30.637 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. -0.049 min  
Lab File: VX044188.D  
Acq: 09 Dec 2024 15:17

Tgt Ion: 59 Resp: 10160  
Ion Ratio Lower Upper  
59 100  
57 1.3 7.9 11.9#

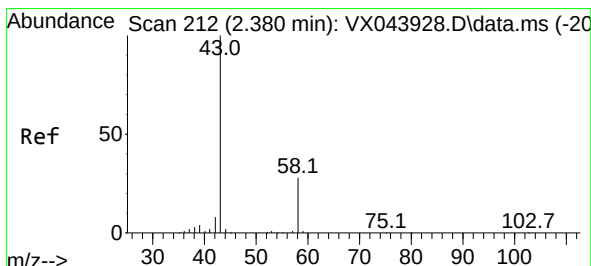
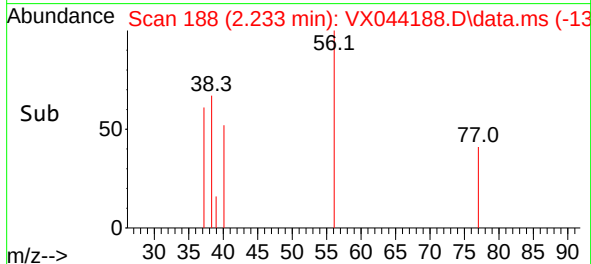
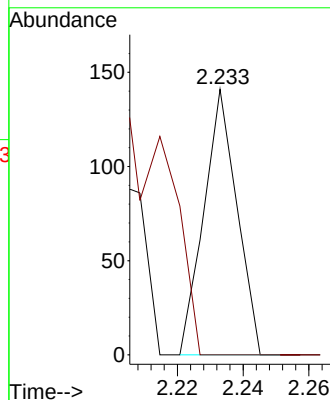
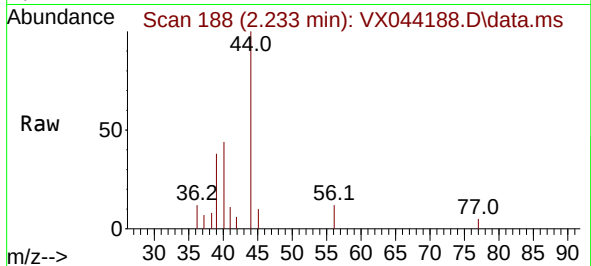




#13  
Acrolein  
Concen: 0.283 ug/l  
RT: 2.233 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX044188.D  
Acq: 09 Dec 2024 15:17

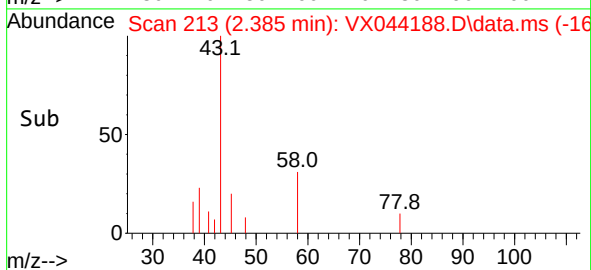
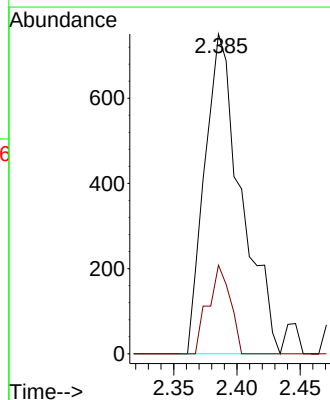
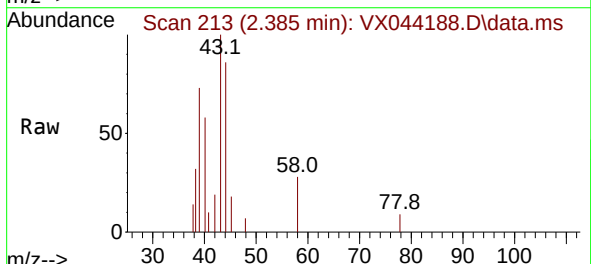
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20241206

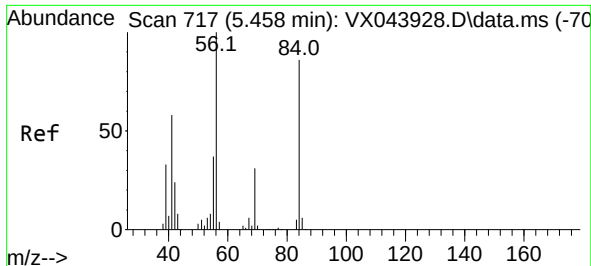
Tgt Ion: 56 Resp: 99  
Ion Ratio Lower Upper  
56 100  
55 0.0 58.2 87.2#



#16  
Acetone  
Concen: 1.586 ug/l  
RT: 2.385 min Scan# 213  
Delta R.T. 0.006 min  
Lab File: VX044188.D  
Acq: 09 Dec 2024 15:17

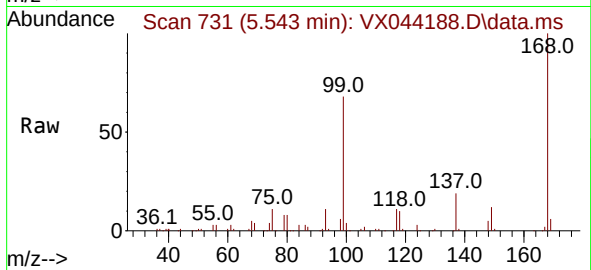
Tgt Ion: 43 Resp: 1505  
Ion Ratio Lower Upper  
43 100  
58 27.7 22.7 34.1



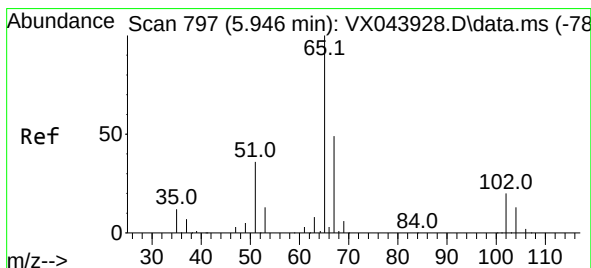
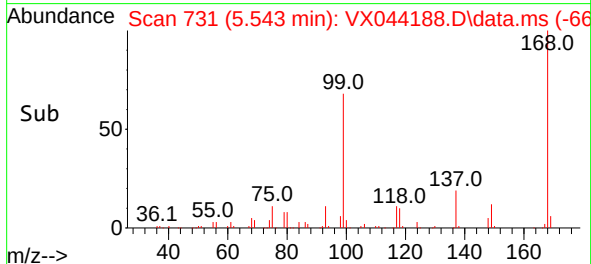
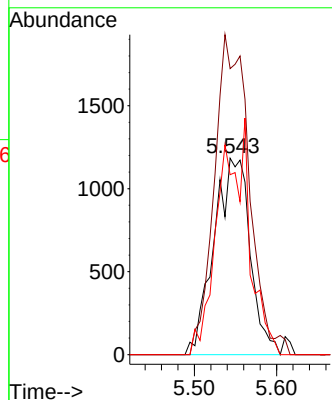


#31  
Cyclohexane  
Concen: 1.577 ug/l  
RT: 5.543 min Scan# 717  
Delta R.T. 0.085 min  
Lab File: VX044188.D  
Acq: 09 Dec 2024 15:17

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20241206

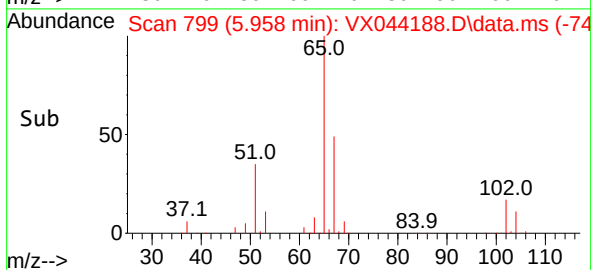
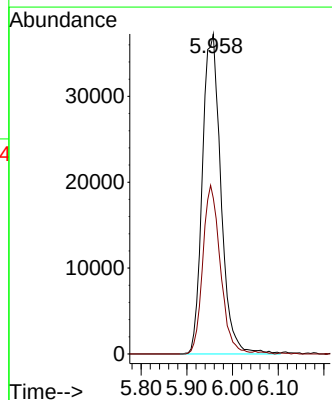
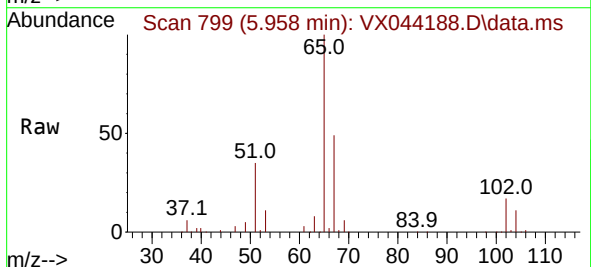


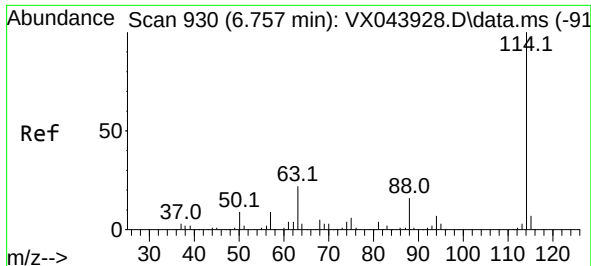
Tgt Ion: 56 Resp: 3631  
Ion Ratio Lower Upper  
56 100  
69 145.6 24.7 37.1#  
84 91.6 68.7 103.1



#33  
1,2-Dichloroethane-d4  
Concen: 50.650 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.012 min  
Lab File: VX044188.D  
Acq: 09 Dec 2024 15:17

Tgt Ion: 65 Resp: 104646  
Ion Ratio Lower Upper  
65 100  
67 50.0 0.0 100.8

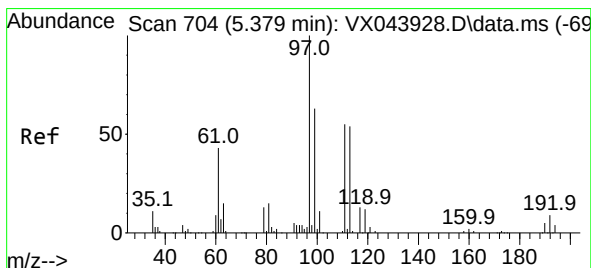
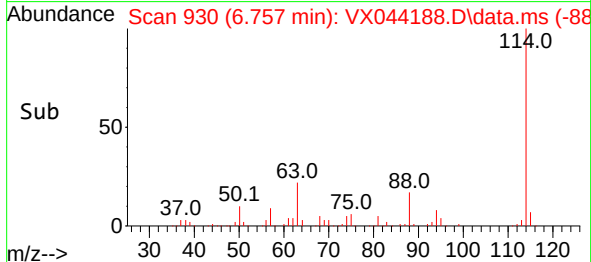
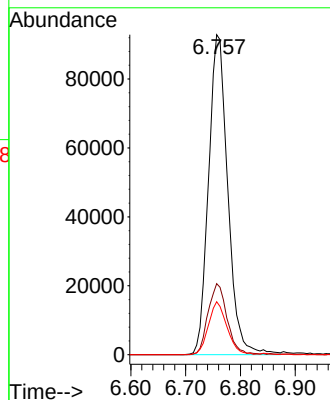
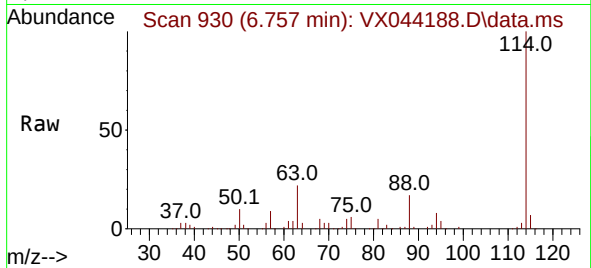




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX044188.D  
Acq: 09 Dec 2024 15:17

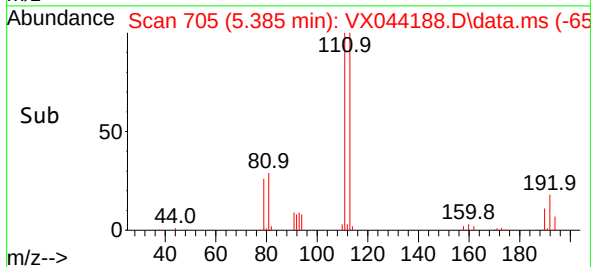
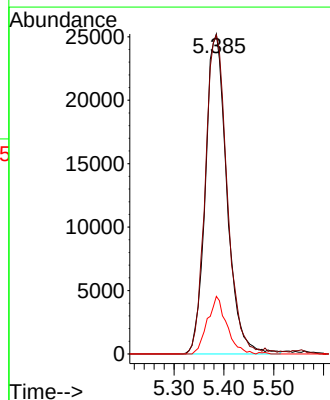
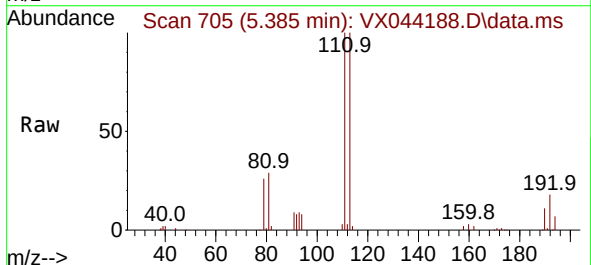
Instrument :  
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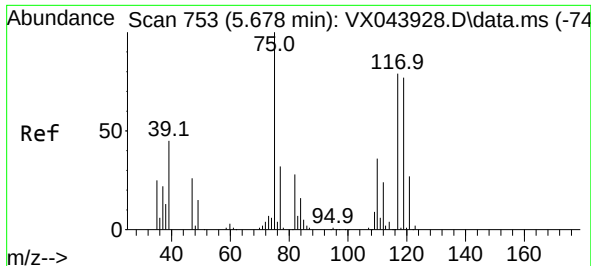
Tgt Ion:114 Resp: 226191  
Ion Ratio Lower Upper  
114 100  
63 22.2 0.0 44.0  
88 16.5 0.0 32.4



#35  
Dibromofluoromethane  
Concen: 46.651 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX044188.D  
Acq: 09 Dec 2024 15:17

Tgt Ion:113 Resp: 75400  
Ion Ratio Lower Upper  
113 100  
111 101.1 81.0 121.4  
192 16.1 13.0 19.6





#36

1,1-Dichloropropene

Concen: 6.099 ug/l

RT: 5.543 min Scan# 71

Delta R.T. -0.135 min

Lab File: VX044188.D

Acq: 09 Dec 2024 15:17

Instrument :

MSVOA\_X

ClientSampleId :

RE108D1-20241206

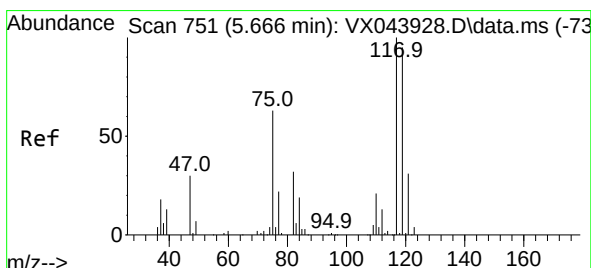
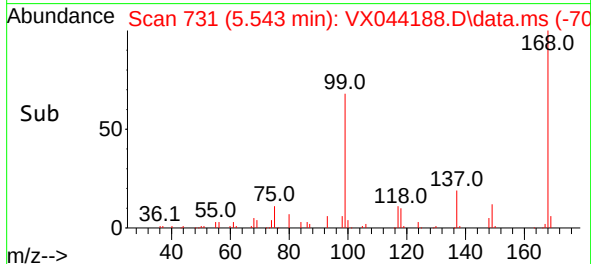
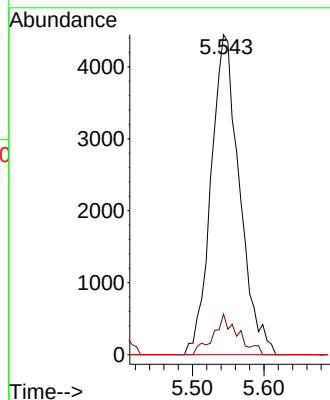
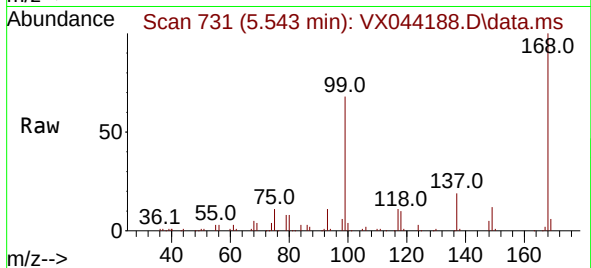
Tgt Ion: 75 Resp: 12284

Ion Ratio Lower Upper

75 100

110 10.9 17.4 52.2#

77 0.0 25.8 38.8#



#38

Carbon Tetrachloride

Concen: 6.379 ug/l

RT: 5.549 min Scan# 732

Delta R.T. -0.116 min

Lab File: VX044188.D

Acq: 09 Dec 2024 15:17

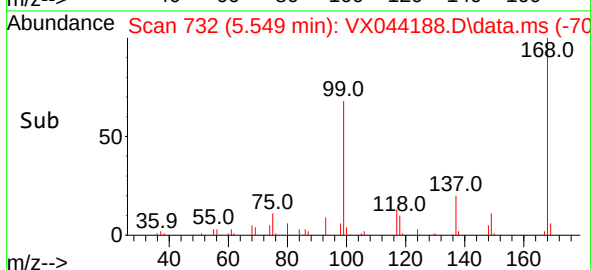
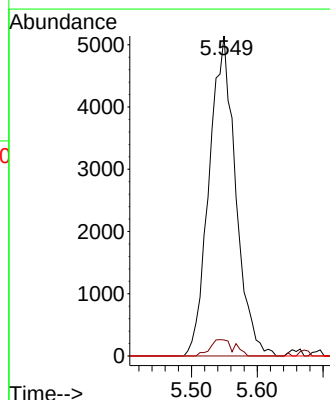
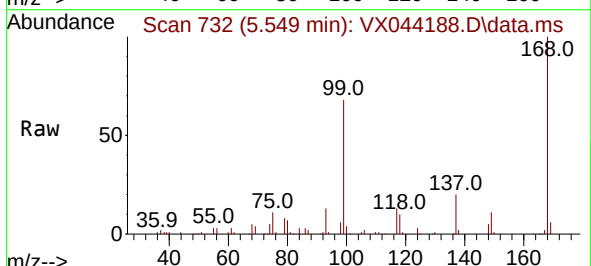
Tgt Ion: 117 Resp: 14435

Ion Ratio Lower Upper

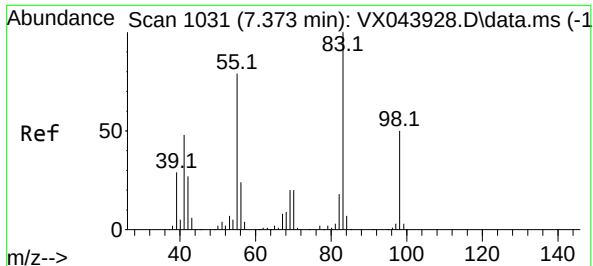
117 100

119 5.0 75.2 112.8#

121 0.0 24.5 36.7#







#39

Methylcyclohexane

Concen: 0.239 ug/l

RT: 7.116 min Scan# 91

Delta R.T. -0.257 min

Lab File: VX044188.D

Acq: 09 Dec 2024 15:17

Instrument :

MSVOA\_X

ClientSampleId :

RE108D1-20241206

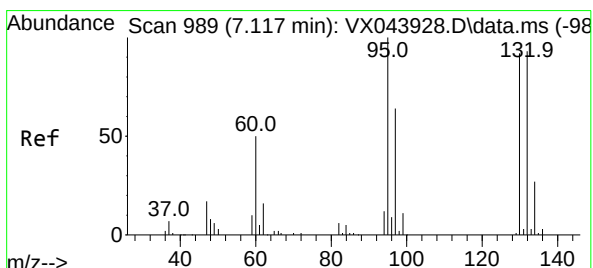
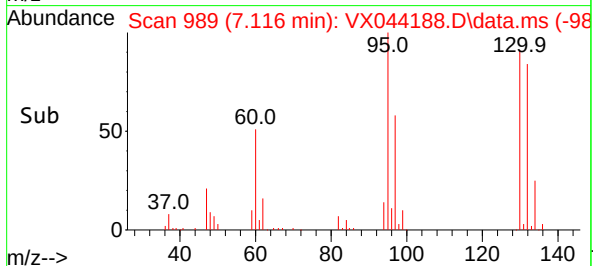
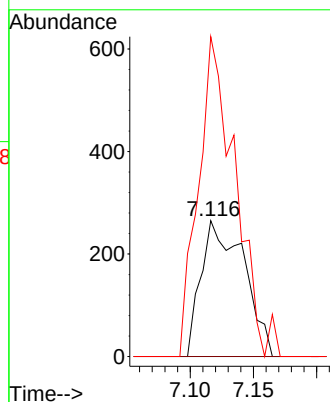
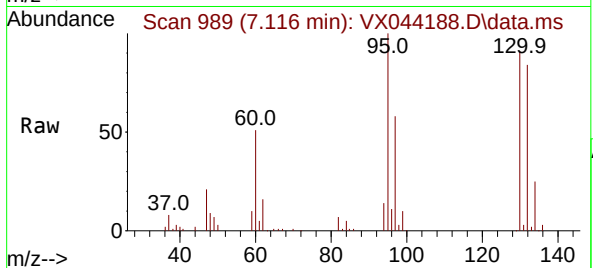
Tgt Ion: 83 Resp: 625

Ion Ratio Lower Upper

83 100

55 0.0 63.1 94.7#

98 235.5 40.0 60.0#



#44

Trichloroethene

Concen: 24.467 ug/l

RT: 7.122 min Scan# 990

Delta R.T. 0.006 min

Lab File: VX044188.D

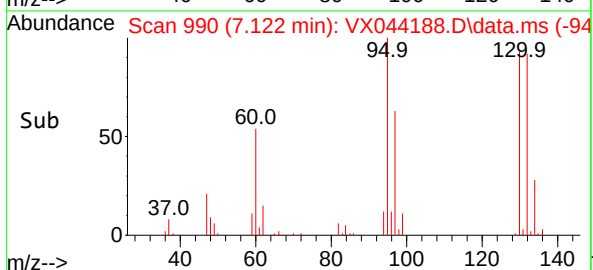
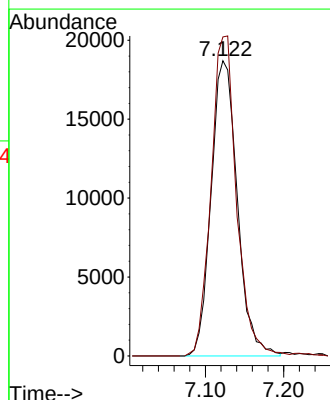
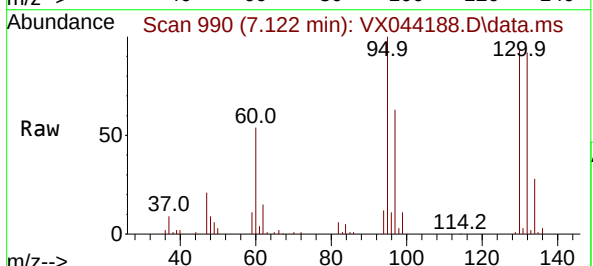
Acq: 09 Dec 2024 15:17

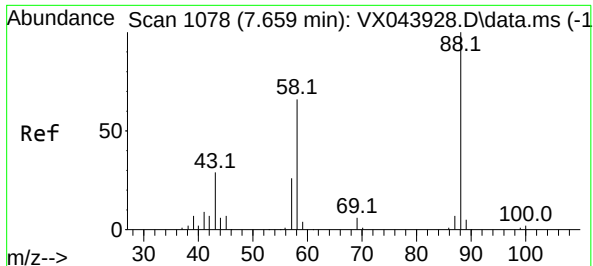
Tgt Ion:130 Resp: 43452

Ion Ratio Lower Upper

130 100

95 108.1 0.0 217.8





#49

1,4-Dioxane

Concen: 3.764 ug/l

RT: 7.689 min Scan# 1

Delta R.T. 0.030 min

Lab File: VX044188.D

Acq: 09 Dec 2024 15:17

Instrument :

MSVOA\_X

ClientSampleId :

RE108D1-20241206

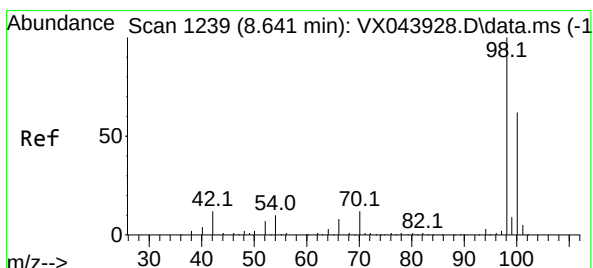
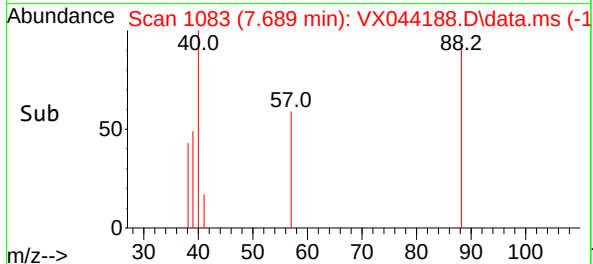
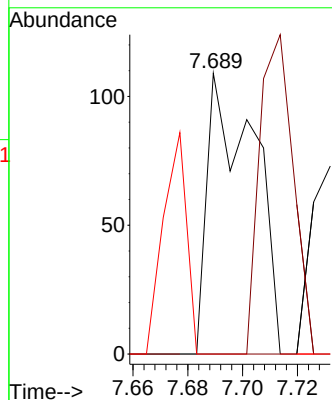
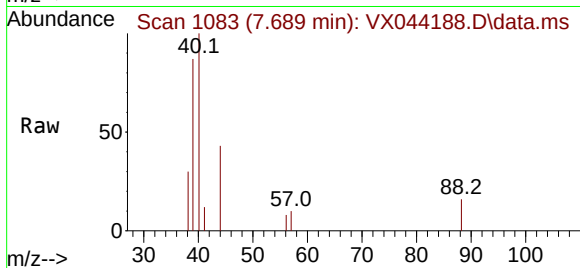
Tgt Ion: 88 Resp: 128

Ion Ratio Lower Upper

88 100

43 0.0 26.8 40.2#

58 39.8 45.4 68.2#



#50

Toluene-d8

Concen: 49.528 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. 0.006 min

Lab File: VX044188.D

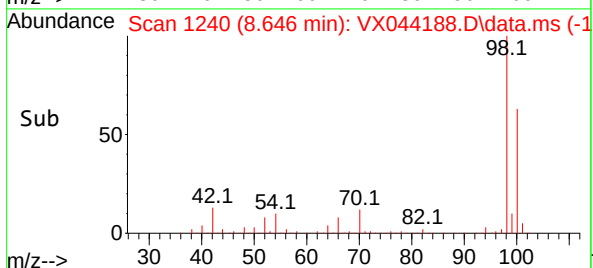
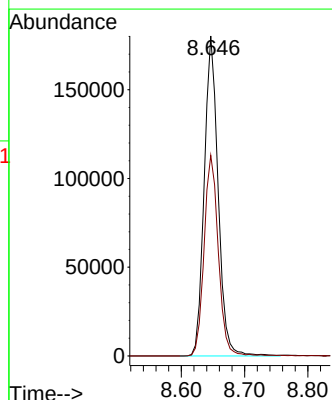
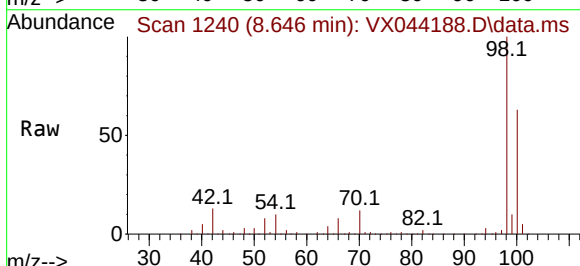
Acq: 09 Dec 2024 15:17

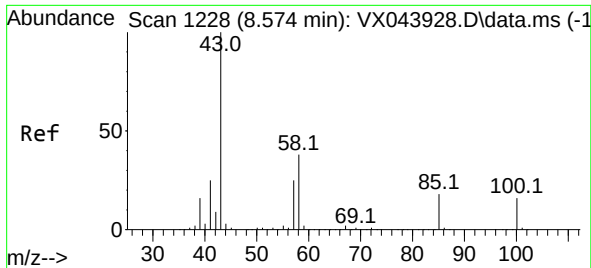
Tgt Ion: 98 Resp: 275938

Ion Ratio Lower Upper

98 100

100 64.5 52.6 79.0

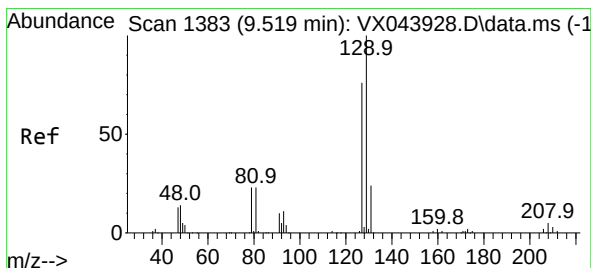
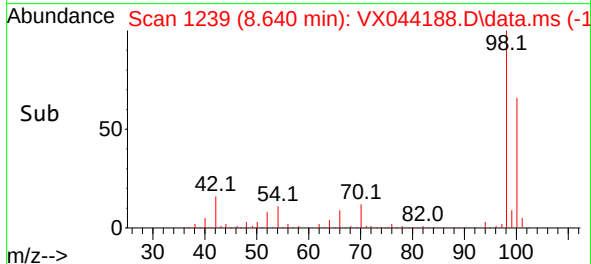
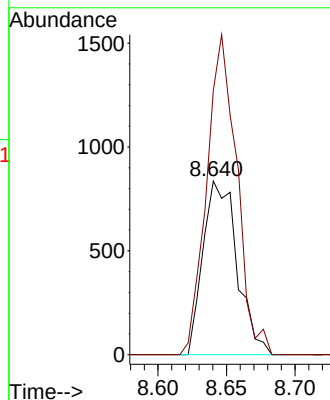
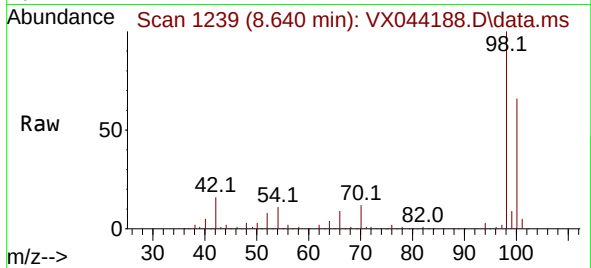




#51  
4-Methyl-2-Pentanone  
Concen: 0.593 ug/l  
RT: 8.640 min Scan# 11  
Delta R.T. 0.067 min  
Lab File: VX044188.D  
Acq: 09 Dec 2024 15:17

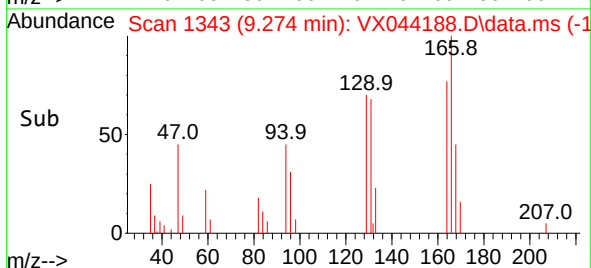
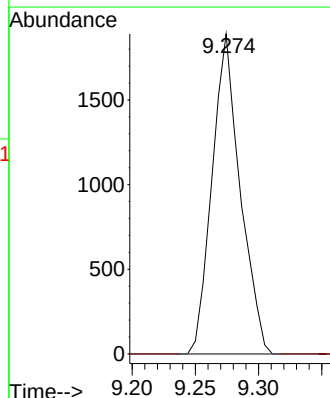
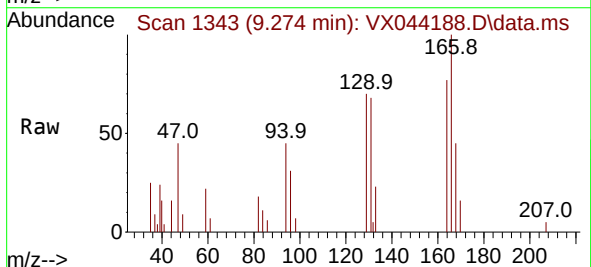
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20241206

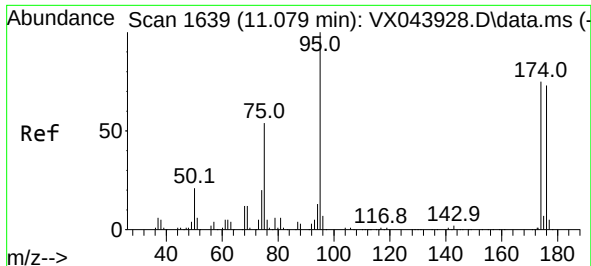
Tgt Ion: 43 Resp: 1440  
Ion Ratio Lower Upper  
43 100  
58 163.5 30.0 45.0#



#60  
Dibromochloromethane  
Concen: 1.880 ug/l  
RT: 9.274 min Scan# 1343  
Delta R.T. -0.244 min  
Lab File: VX044188.D  
Acq: 09 Dec 2024 15:17

Tgt Ion: 129 Resp: 2923  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.2 114.6#





#62

4-Bromofluorobenzene

Concen: 46.739 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044188.D

Acq: 09 Dec 2024 15:17

Instrument :

MSVOA\_X

ClientSampleId :

RE108D1-20241206

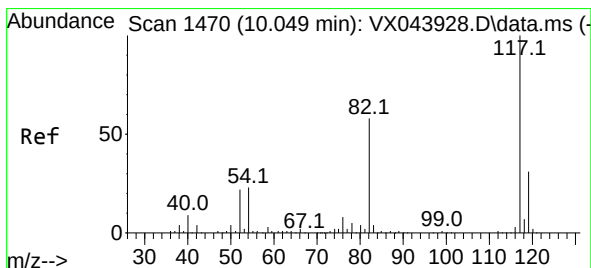
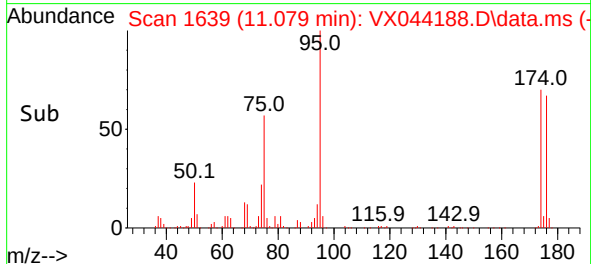
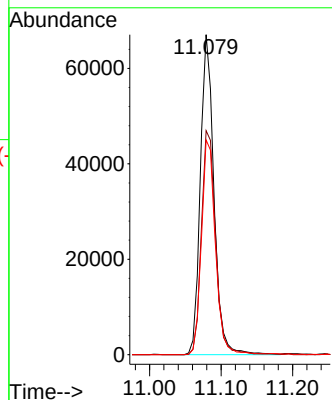
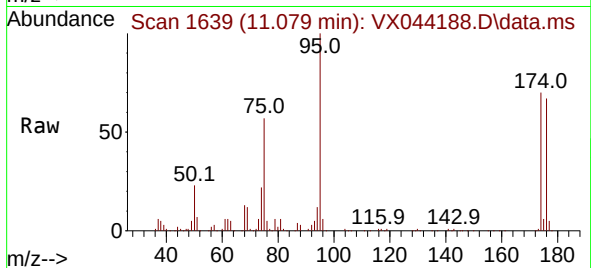
Tgt Ion: 95 Resp: 88621

Ion Ratio Lower Upper

95 100

174 73.3 0.0 150.4

176 69.1 0.0 146.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX044188.D

Acq: 09 Dec 2024 15:17

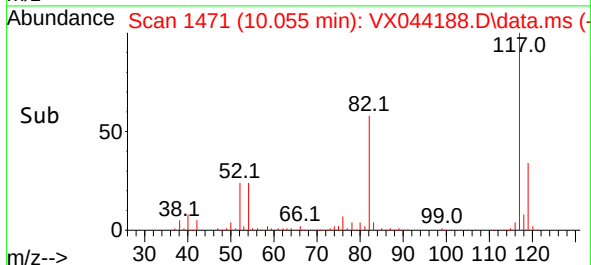
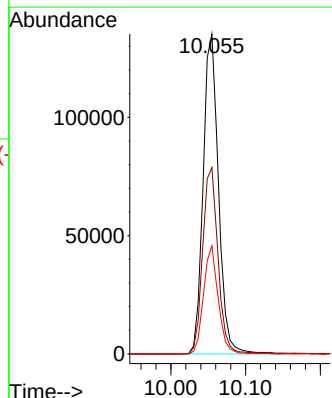
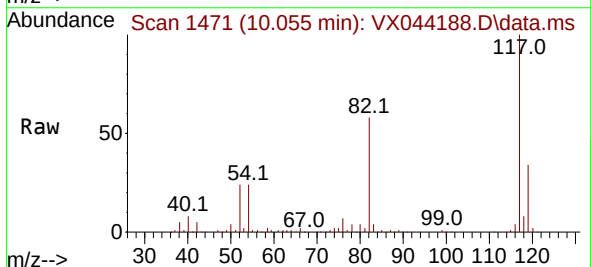
Tgt Ion: 117 Resp: 192858

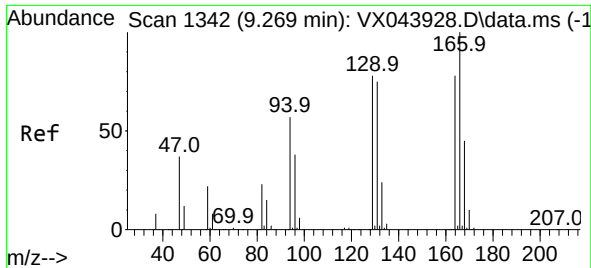
Ion Ratio Lower Upper

117 100

82 58.3 46.4 69.6

119 33.8 24.6 37.0





#64

Tetrachloroethene

Concen: 2.264 ug/l

RT: 9.274 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX044188.D

Acq: 09 Dec 2024 15:17

Instrument :

MSVOA\_X

ClientSampleId :

RE108D1-20241206

Tgt Ion:164 Resp: 2879

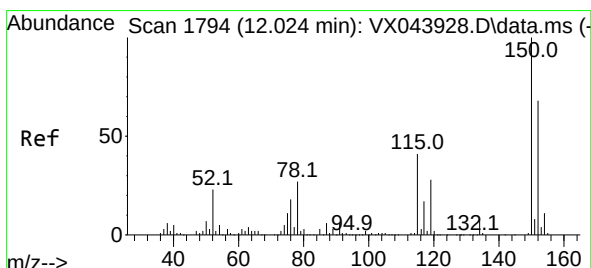
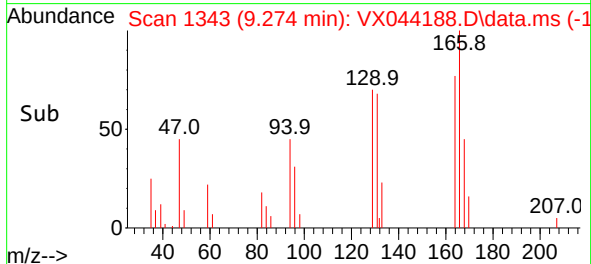
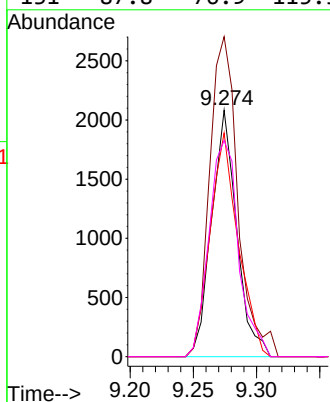
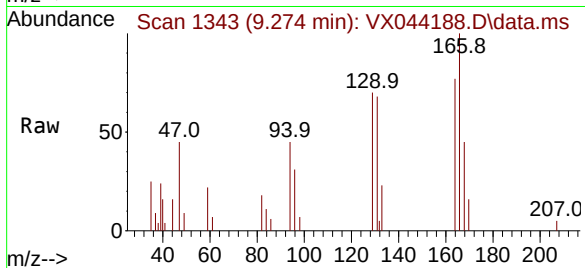
Ion Ratio Lower Upper

164 100

166 129.9 102.1 153.1

129 90.8 79.6 119.4

131 87.8 76.9 115.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX044188.D

Acq: 09 Dec 2024 15:17

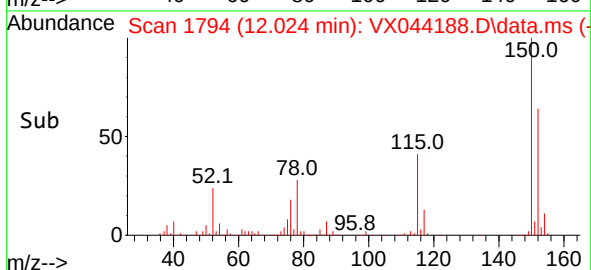
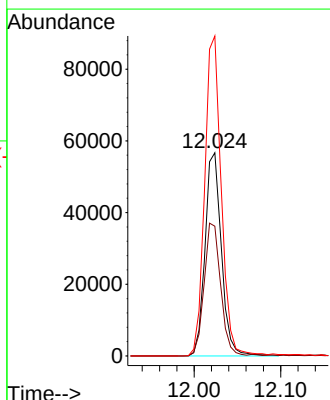
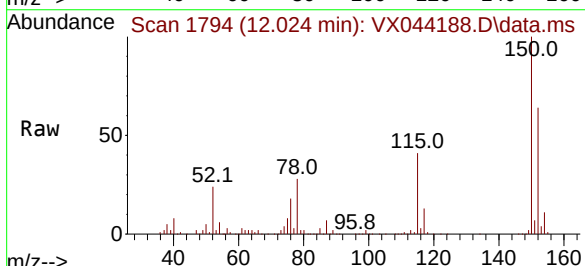
Tgt Ion:152 Resp: 74622

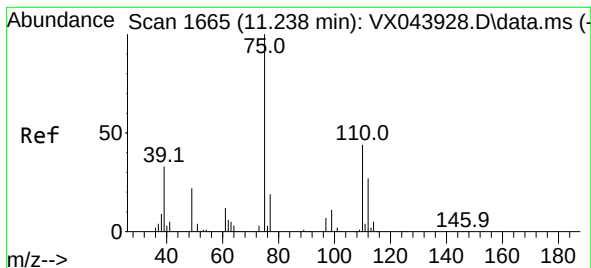
Ion Ratio Lower Upper

152 100

115 66.2 45.4 136.2

150 160.7 0.0 353.0





#76

1,2,3-Trichloropropane

Concen: 31.470 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX044188.D

Acq: 09 Dec 2024 15:17

Instrument :

MSVOA\_X

ClientSampleId :

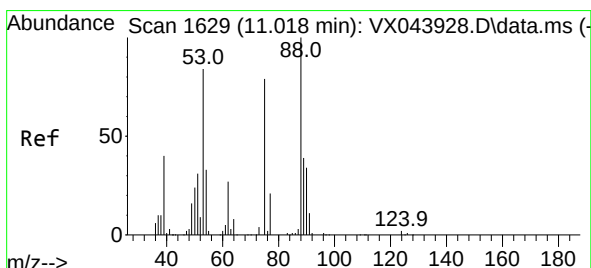
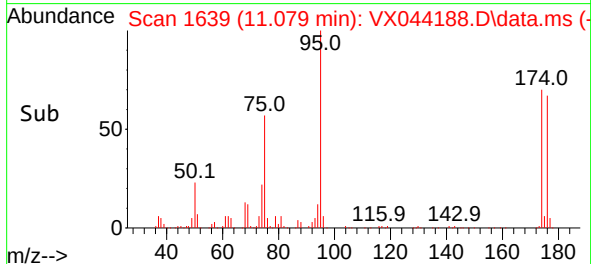
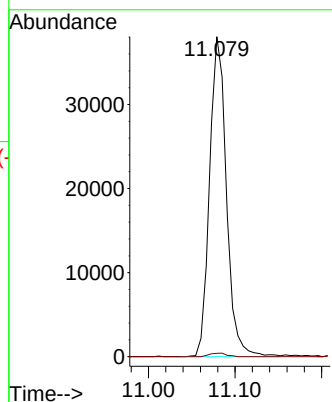
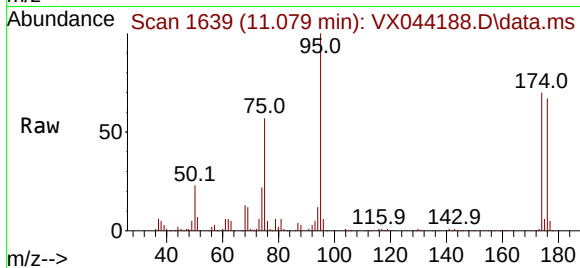
RE108D1-20241206

Tgt Ion: 75 Resp: 51499

Ion Ratio Lower Upper

75 100

77 1.1 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 85.874 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.060 min

Lab File: VX044188.D

Acq: 09 Dec 2024 15:17

Tgt Ion: 75 Resp: 51499

Ion Ratio Lower Upper

75 100

53 0.0 86.7 130.1#

89 0.0 38.2 57.2#

