

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122024\  
 Data File : VX044450.D  
 Acq On : 20 Dec 2024 14:23  
 Operator : JC/MD  
 Sample : P5317-02DL 20X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RW4-20241216DL

Quant Time: Dec 20 22:25:00 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121124W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 12 04:28:14 2024  
 Response via : Initial Calibration

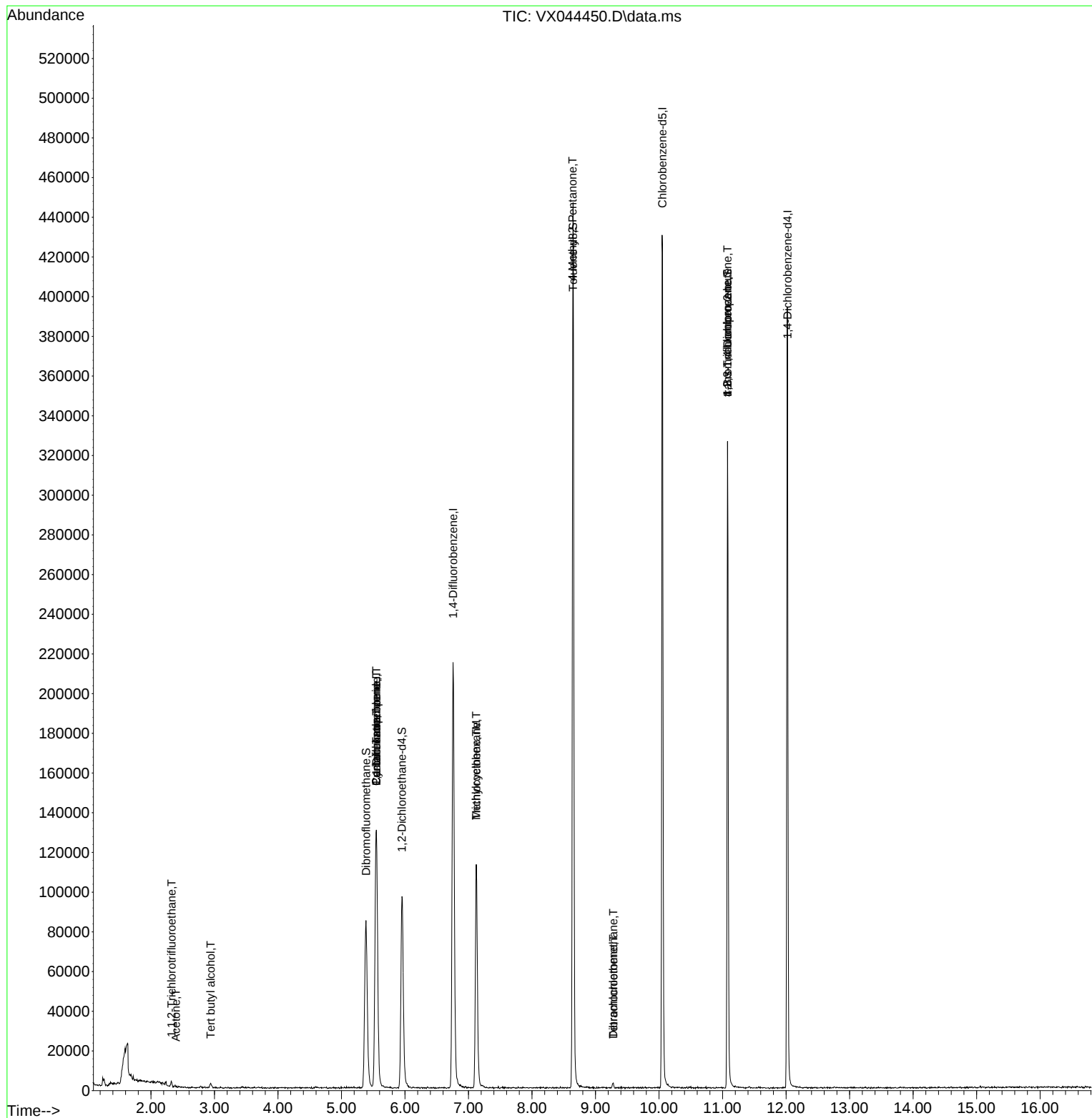
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 123451   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 220282   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 193072   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 79195    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 92439    | 42.707   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 85.420%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 72250    | 47.357   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 94.720%  |
| 50) Toluene-d8                | 8.647  | 98    | 259723   | 50.460   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 100.920% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 86015    | 47.825   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 95.660%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 9) 1,1,2-Trichlorotrifluo...  | 2.325  | 101   | 896      | 0.595    | ug/l   | 94       |
| 11) Tert butyl alcohol        | 2.941  | 59    | 1374     | 4.504    | ug/l # | 71       |
| 16) Acetone                   | 2.392  | 43    | 586      | 0.664    | ug/l # | 48       |
| 31) Cyclohexane               | 5.550  | 56    | 2789     | 1.194    | ug/l # | 21       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 9545     | 4.840    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 13338    | 6.282    | ug/l # | 18       |
| 39) Methylcyclohexane         | 7.123  | 83    | 567      | 0.240    | ug/l # | 24       |
| 44) Trichloroethene           | 7.123  | 130   | 42960    | 28.771   | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 8.641  | 43    | 1372     | 0.560    | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.281  | 129   | 518      | 1.565    | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.281  | 164   | 617      | 0.481    | ug/l # | 55       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 44745    | 25.305   | ug/l # | 36       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 44745    | 70.000   | ug/l # | 4        |
| -----                         |        |       |          |          |        |          |

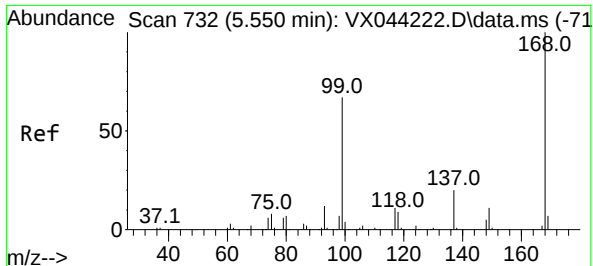
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122024\  
Data File : VX044450.D  
Acq On : 20 Dec 2024 14:23  
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Sample : P5317-02DL 20X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20241216DL

Quant Time: Dec 20 22:25:00 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121124W.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 12 04:28:14 2024  
Response via : Initial Calibration

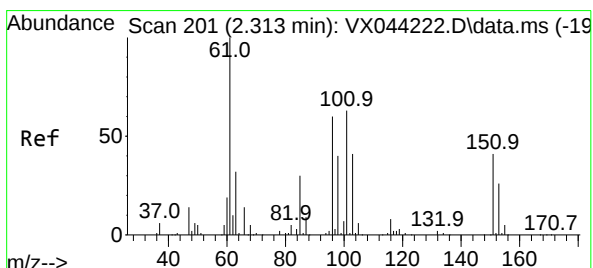
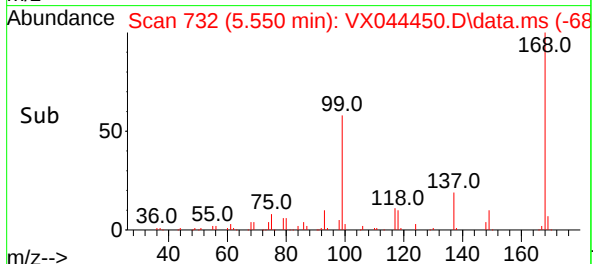
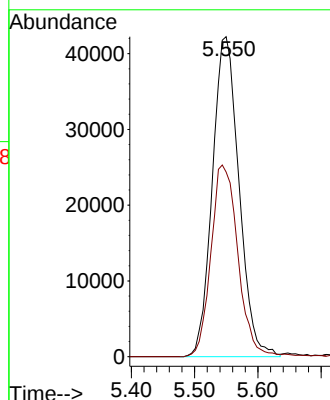
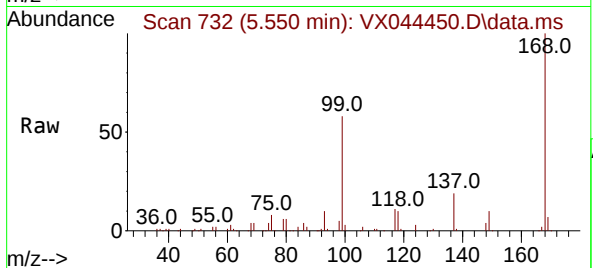




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

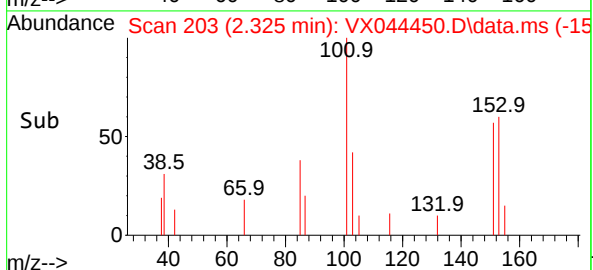
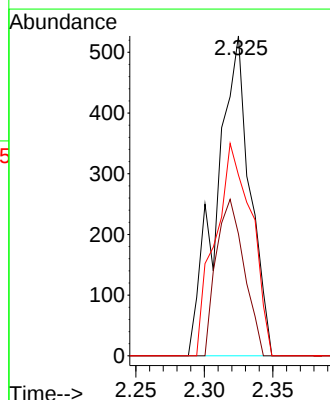
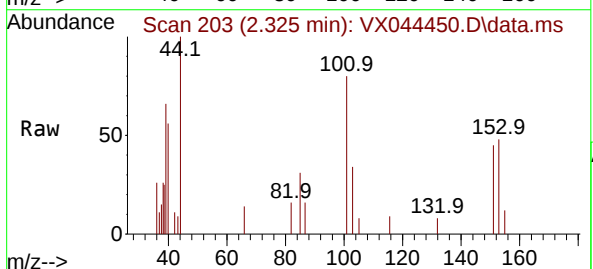
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20241216DL

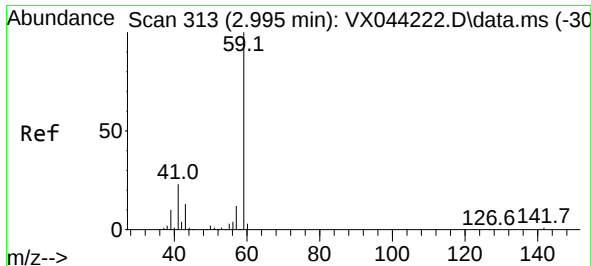
Tgt Ion:168 Resp: 123451  
Ion Ratio Lower Upper  
168 100  
99 57.7 53.4 80.0



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.595 ug/l  
RT: 2.325 min Scan# 203  
Delta R.T. 0.012 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

Tgt Ion:101 Resp: 896  
Ion Ratio Lower Upper  
101 100  
85 41.0 38.5 57.7  
151 72.2 55.8 83.6

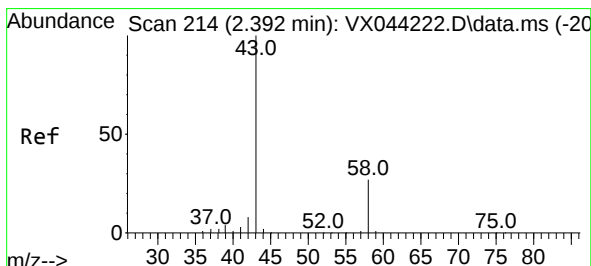
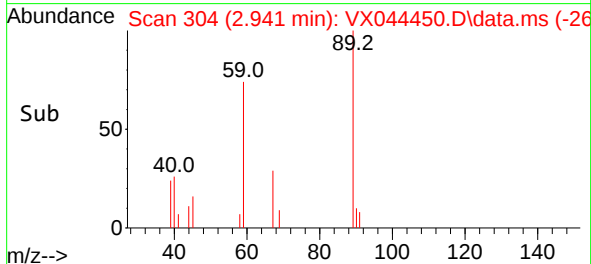
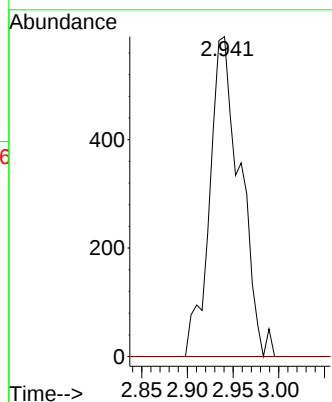
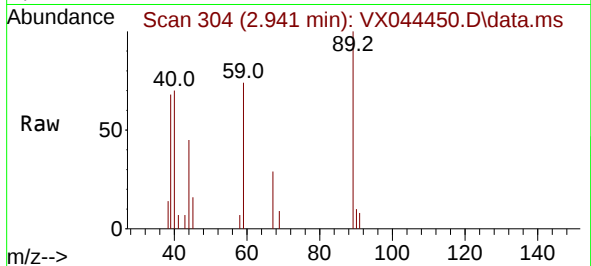




#11  
Tert butyl alcohol  
Concen: 4.504 ug/l  
RT: 2.941 min Scan# 304  
Delta R.T. -0.055 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

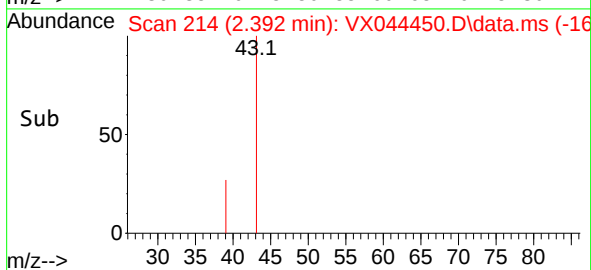
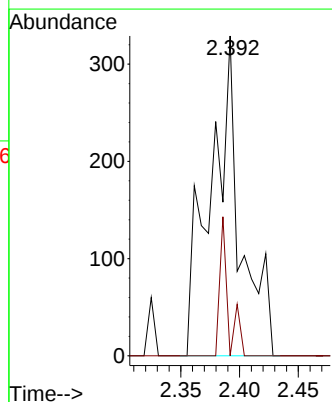
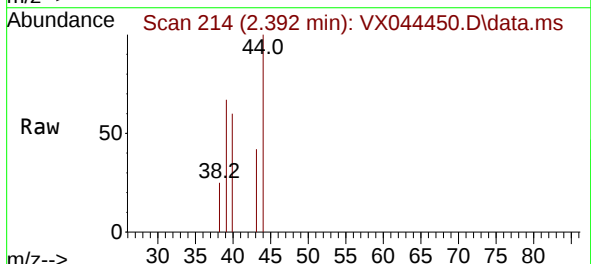
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20241216DL

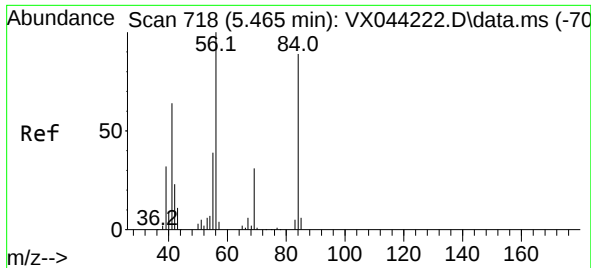
Tgt Ion: 59 Resp: 1374  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.8 13.2#



#16  
Acetone  
Concen: 0.664 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

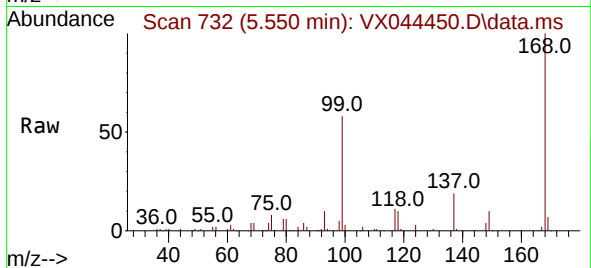
Tgt Ion: 43 Resp: 586  
Ion Ratio Lower Upper  
43 100  
58 0.0 21.6 32.4#



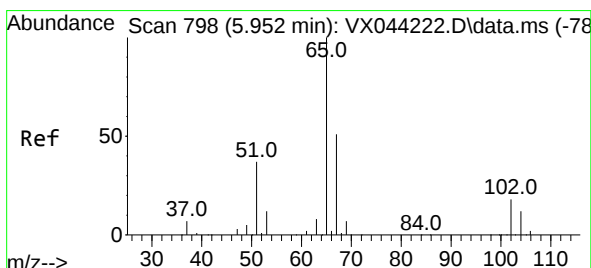
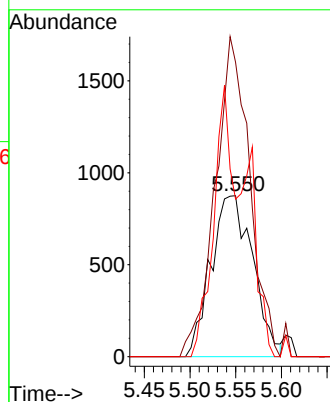
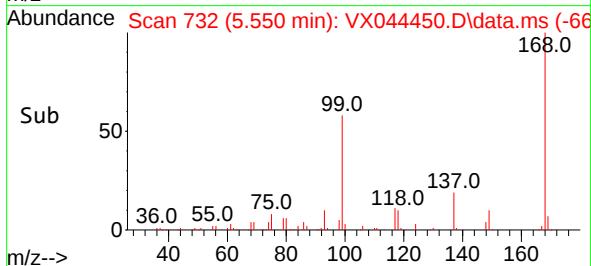


#31  
Cyclohexane  
Concen: 1.194 ug/l  
RT: 5.550 min Scan# 718  
Delta R.T. 0.085 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20241216DL

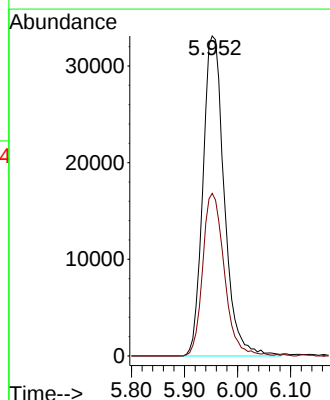
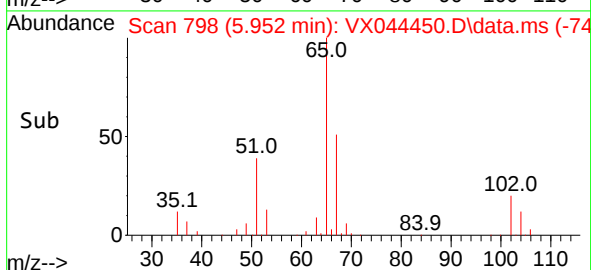
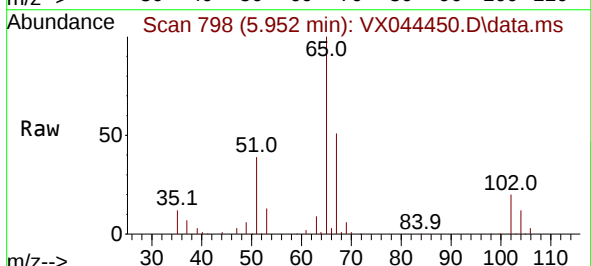


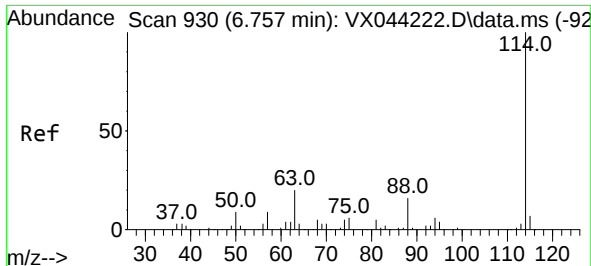
Tgt Ion: 56 Resp: 2789  
Ion Ratio Lower Upper  
56 100  
69 183.0 24.7 37.1#  
84 97.9 71.0 106.6



#33  
1,2-Dichloroethane-d4  
Concen: 42.707 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

Tgt Ion: 65 Resp: 92439  
Ion Ratio Lower Upper  
65 100  
67 51.5 0.0 101.6

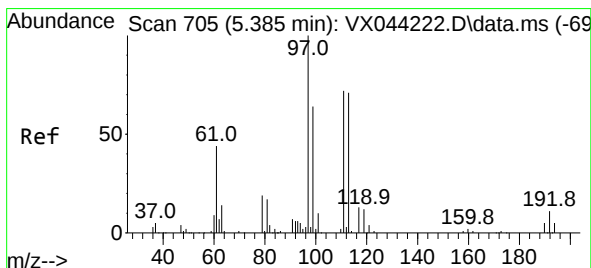
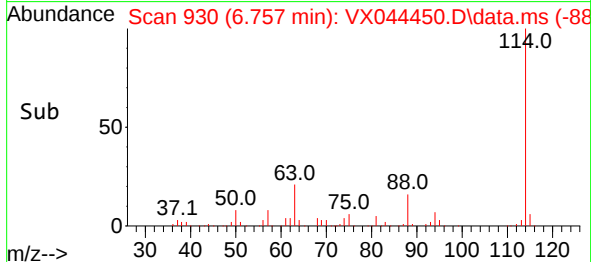
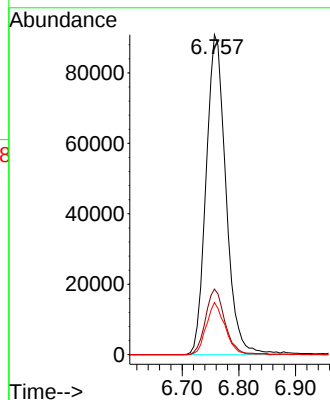
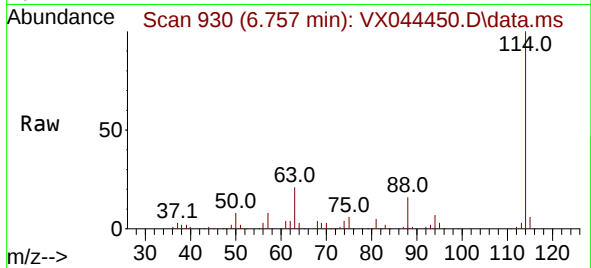




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

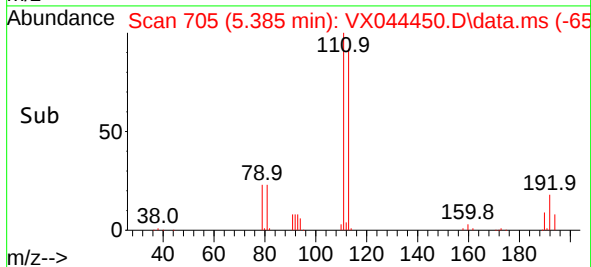
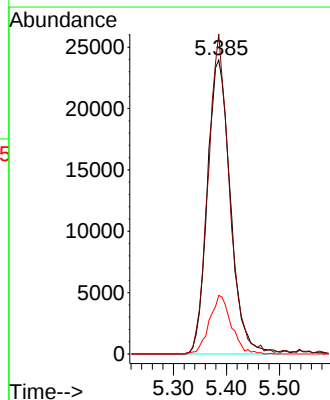
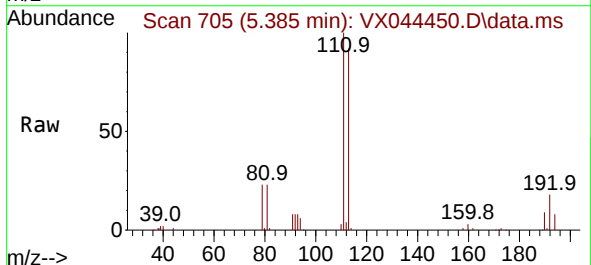
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20241216DL

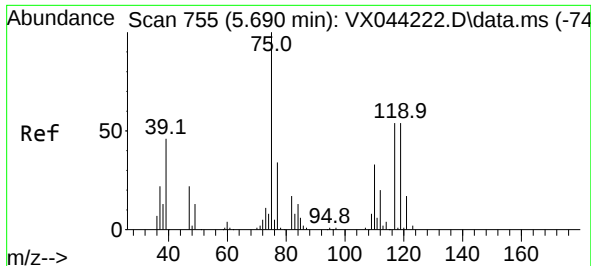
Tgt Ion:114 Resp: 220282  
Ion Ratio Lower Upper  
114 100  
63 20.5 0.0 40.6  
88 16.3 0.0 31.8



#35  
Dibromofluoromethane  
Concen: 47.357 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

Tgt Ion:113 Resp: 72250  
Ion Ratio Lower Upper  
113 100  
111 101.3 80.4 120.6  
192 18.8 13.3 19.9

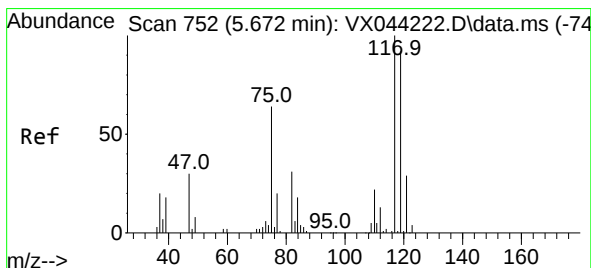
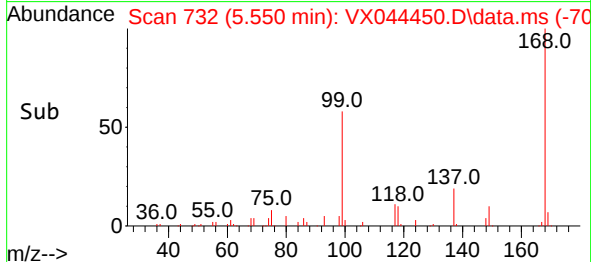
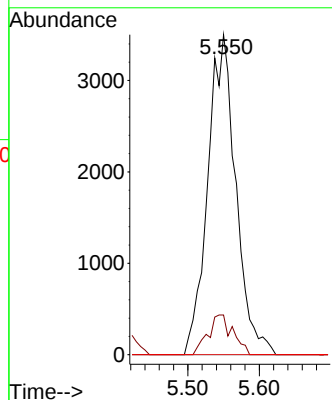
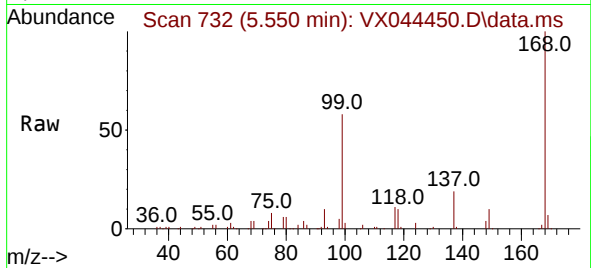




#36  
1,1-Dichloropropene  
Concen: 4.840 ug/l  
RT: 5.550 min Scan# 712  
Delta R.T. -0.140 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

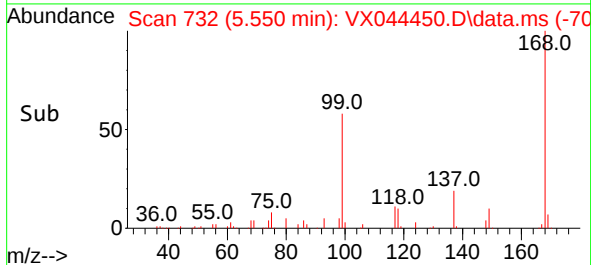
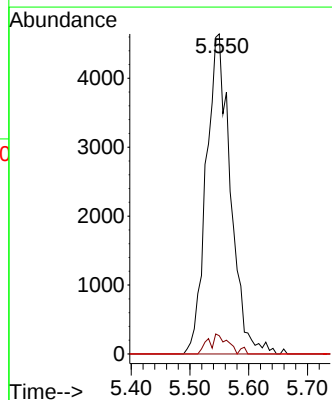
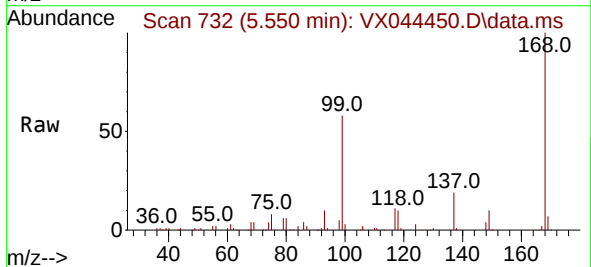
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20241216DL

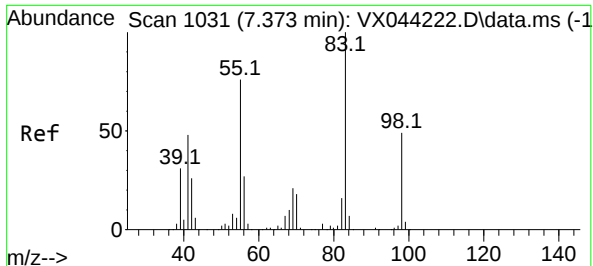
Tgt Ion: 75 Resp: 9545  
Ion Ratio Lower Upper  
75 100  
110 10.9 17.3 51.7#  
77 0.0 25.4 38.0#



#38  
Carbon Tetrachloride  
Concen: 6.282 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.122 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

Tgt Ion: 117 Resp: 13338  
Ion Ratio Lower Upper  
117 100  
119 5.7 74.2 111.4#  
121 0.0 23.0 34.6#





#39

Methylcyclohexane

Concen: 0.240 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.250 min

Lab File: VX044450.D

Acq: 20 Dec 2024 14:23

Instrument :

MSVOA\_X

ClientSampleId :

RW4-20241216DL

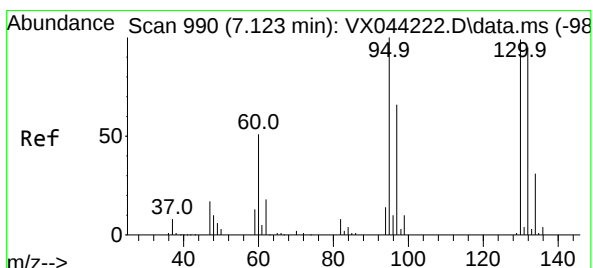
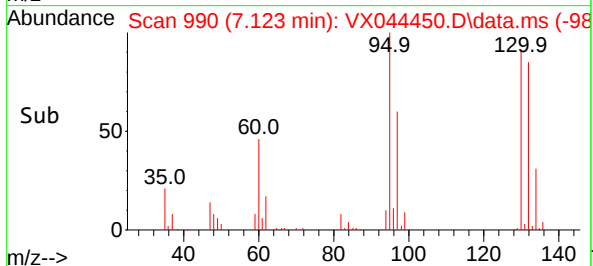
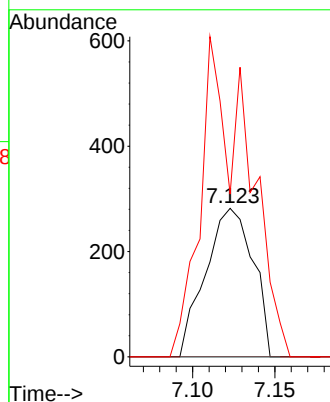
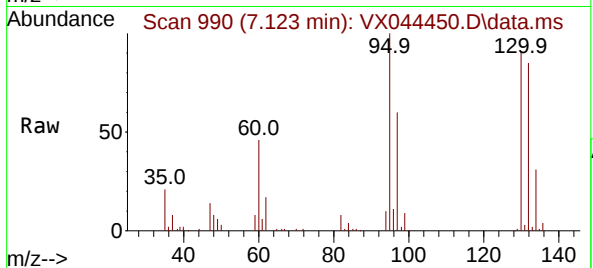
Tgt Ion: 83 Resp: 567

Ion Ratio Lower Upper

83 100

55 0.0 60.7 91.1#

98 87.2 38.9 58.3#



#44

Trichloroethene

Concen: 28.771 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.000 min

Lab File: VX044450.D

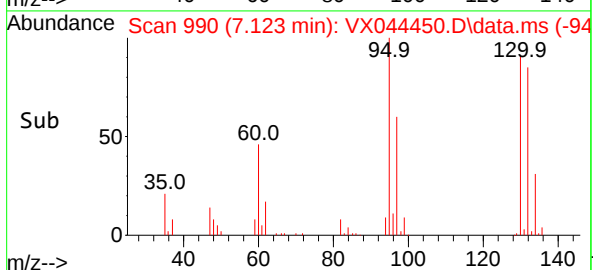
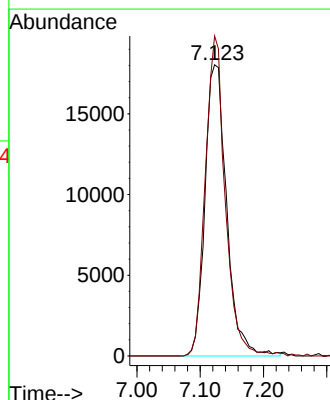
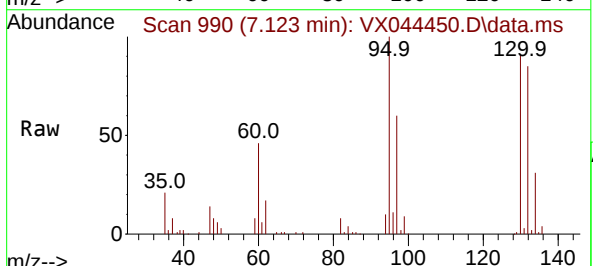
Acq: 20 Dec 2024 14:23

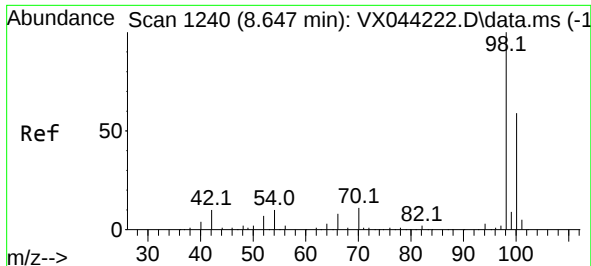
Tgt Ion:130 Resp: 42960

Ion Ratio Lower Upper

130 100

95 109.9 0.0 201.4

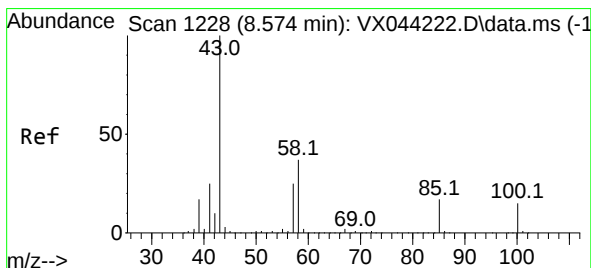
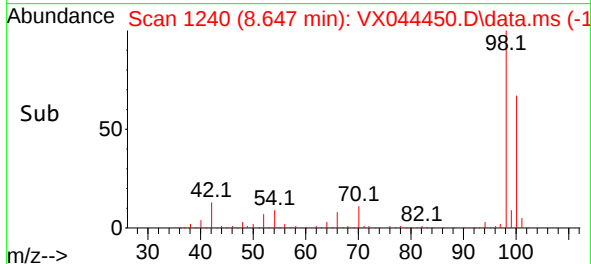
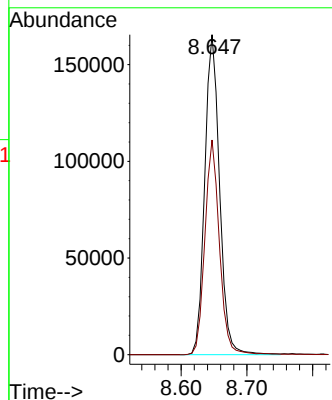
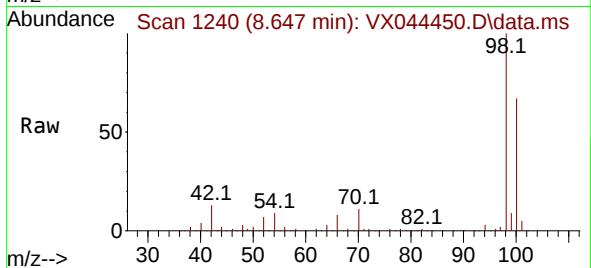




#50  
Toluene-d8  
Concen: 50.460 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

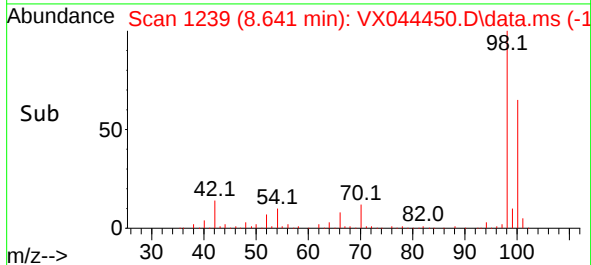
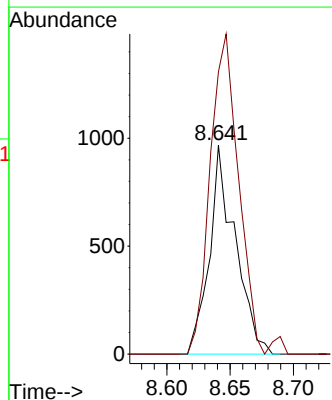
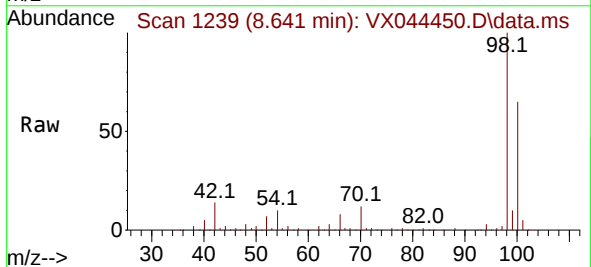
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20241216DL

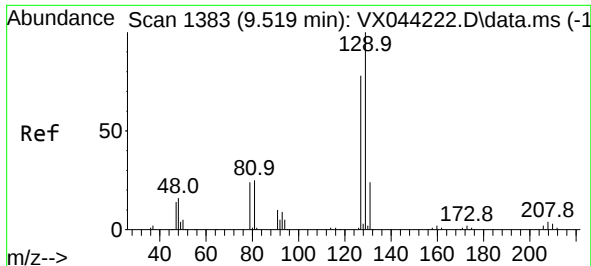
Tgt Ion: 98 Resp: 259723  
Ion Ratio Lower Upper  
98 100  
100 66.1 51.5 77.3



#51  
4-Methyl-2-Pentanone  
Concen: 0.560 ug/l  
RT: 8.641 min Scan# 1239  
Delta R.T. 0.067 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

Tgt Ion: 43 Resp: 1372  
Ion Ratio Lower Upper  
43 100  
58 168.6 29.4 44.0#

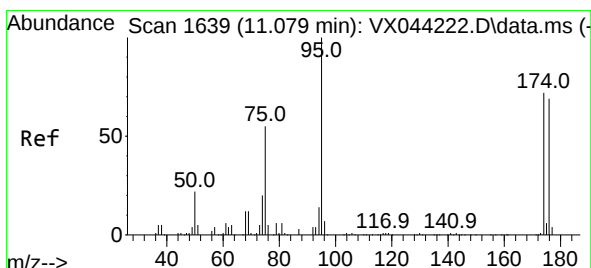
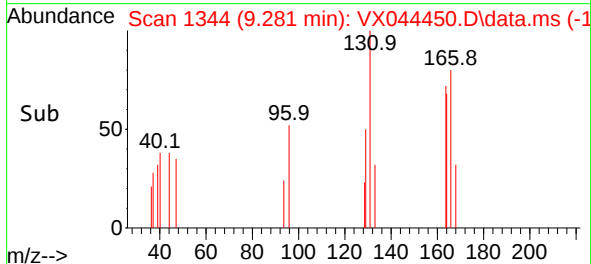
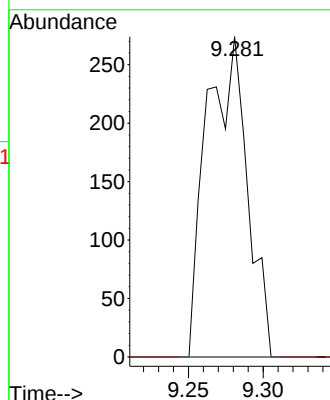
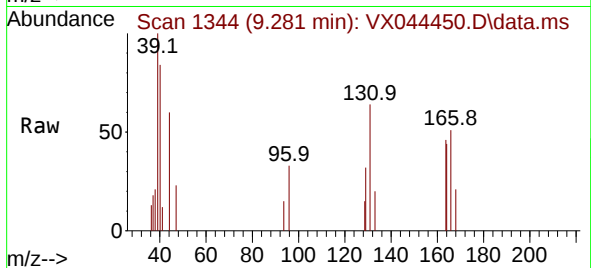




#60  
Dibromochloromethane  
Concen: 1.565 ug/l  
RT: 9.281 min Scan# 11  
Delta R.T. -0.238 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

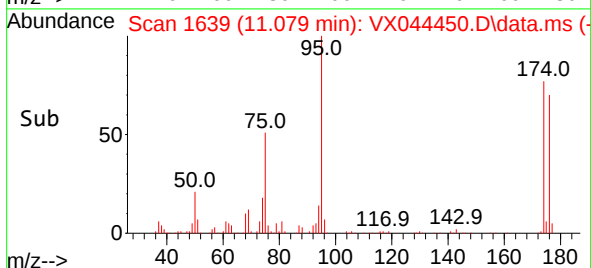
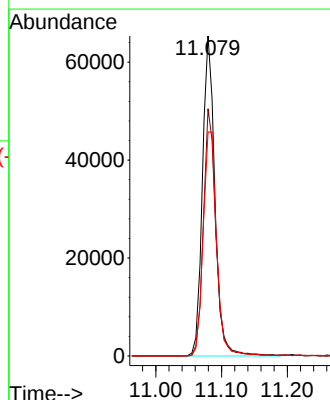
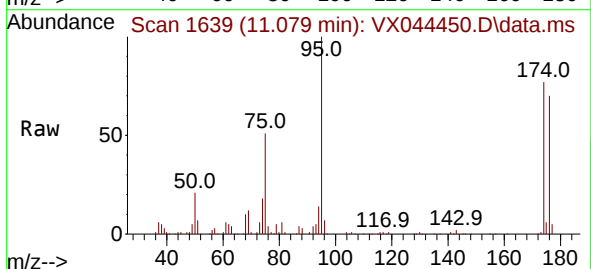
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20241216DL

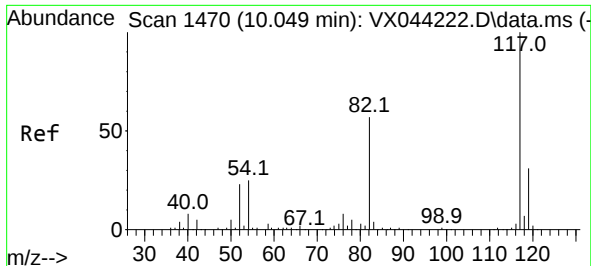
Tgt Ion:129 Resp: 518  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.3#



#62  
4-Bromofluorobenzene  
Concen: 47.825 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

Tgt Ion: 95 Resp: 86015  
Ion Ratio Lower Upper  
95 100  
174 77.7 0.0 145.8  
176 75.9 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX044450.D

Acq: 20 Dec 2024 14:23

Instrument :

MSVOA\_X

ClientSampleId :

RW4-20241216DL

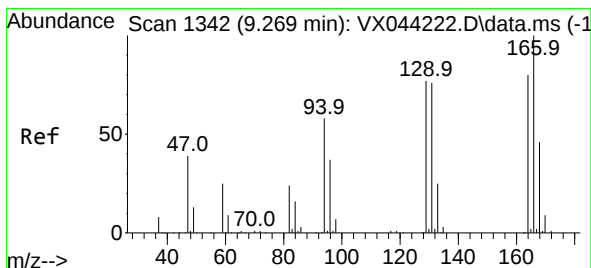
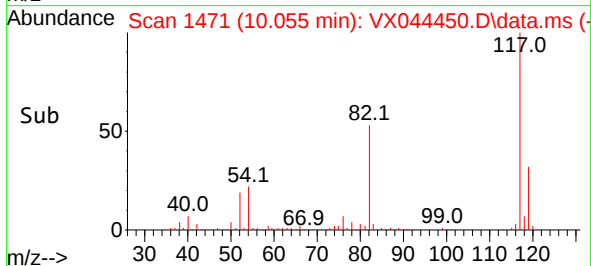
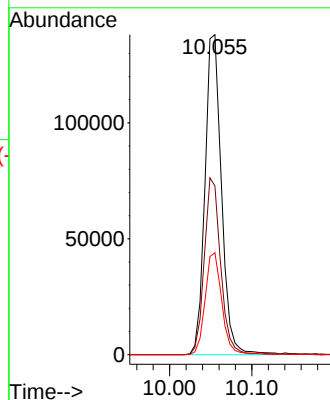
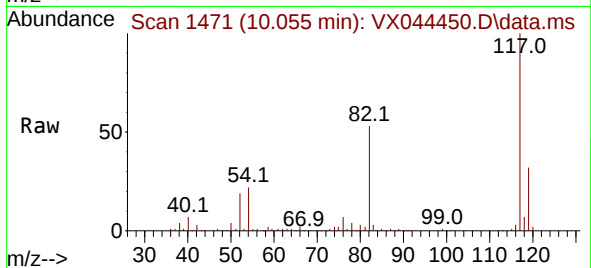
Tgt Ion:117 Resp: 193072

Ion Ratio Lower Upper

117 100

82 52.7 45.8 68.8

119 31.8 25.0 37.4



#64

Tetrachloroethene

Concen: 0.481 ug/l

RT: 9.281 min Scan# 1344

Delta R.T. 0.012 min

Lab File: VX044450.D

Acq: 20 Dec 2024 14:23

Tgt Ion:164 Resp: 617

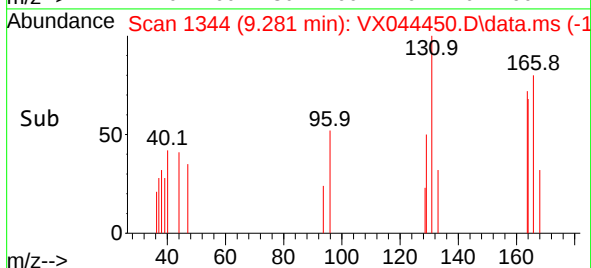
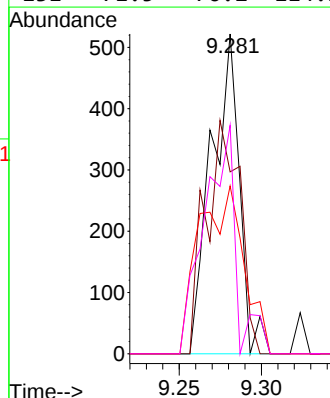
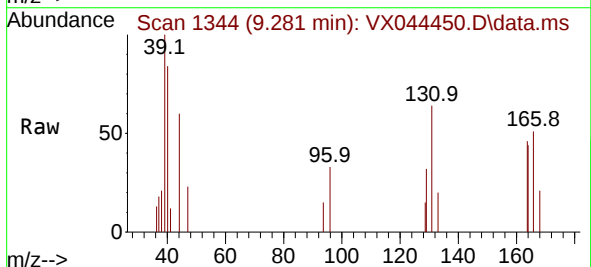
Ion Ratio Lower Upper

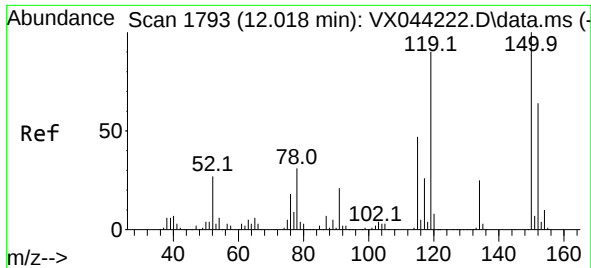
164 100

166 56.9 100.4 150.6#

129 52.5 77.2 115.8#

131 71.5 76.2 114.2#

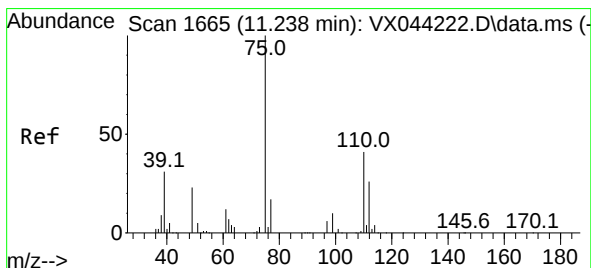
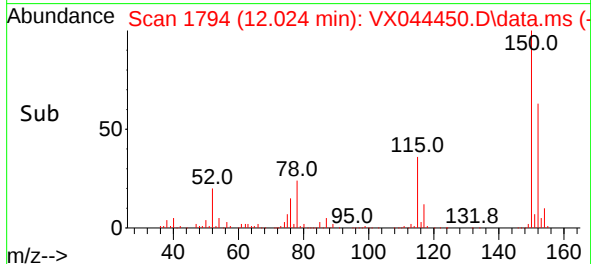
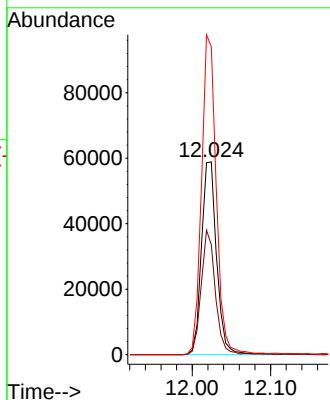
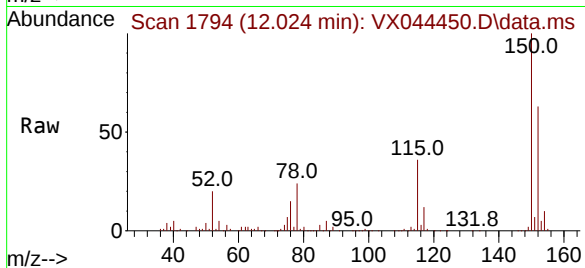




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

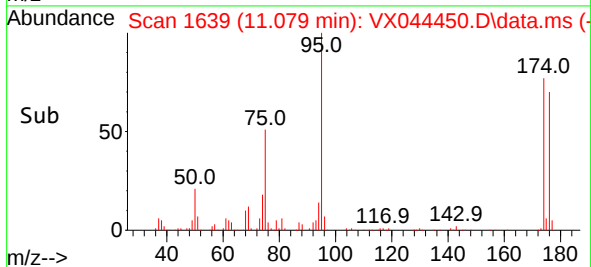
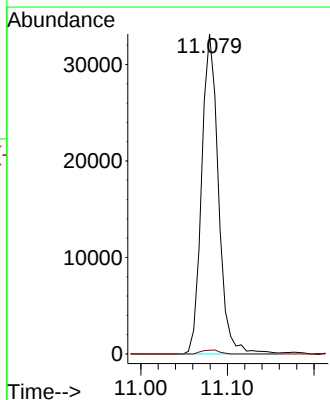
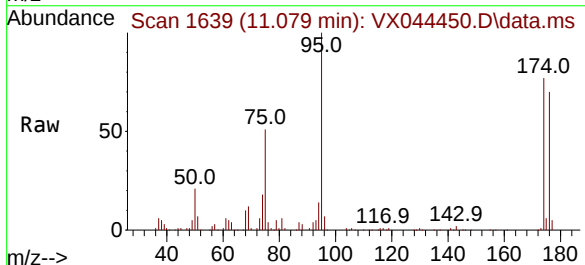
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20241216DL

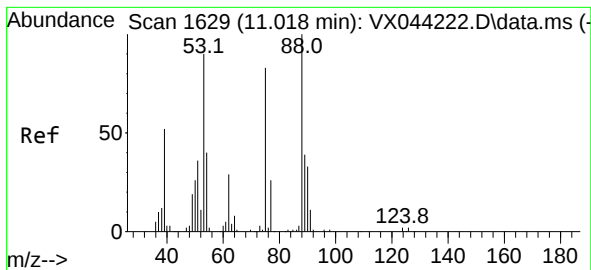
Tgt Ion:152 Resp: 79195  
Ion Ratio Lower Upper  
152 100  
115 60.7 44.5 133.3  
150 160.8 0.0 353.8



#76  
1,2,3-Trichloropropane  
Concen: 25.305 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

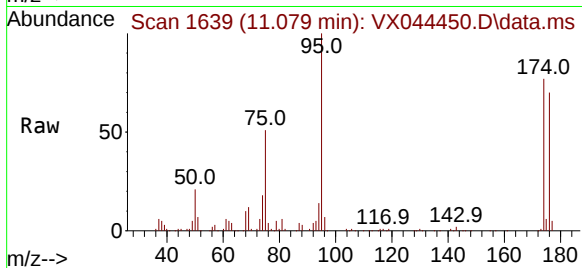
Tgt Ion: 75 Resp: 44745  
Ion Ratio Lower Upper  
75 100  
77 1.3 20.9 62.7#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 70.000 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX044450.D  
Acq: 20 Dec 2024 14:23

Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20241216DL



Tgt Ion: 75 Resp: 44745  
Ion Ratio Lower Upper  
75 100  
53 0.0 93.6 140.4#  
89 0.0 37.3 55.9#

