

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120621\  
 Data File : VX025544.D  
 Acq On : 06 Dec 2021 13:21  
 Operator : JC/MD  
 Sample : M4923-15DL 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

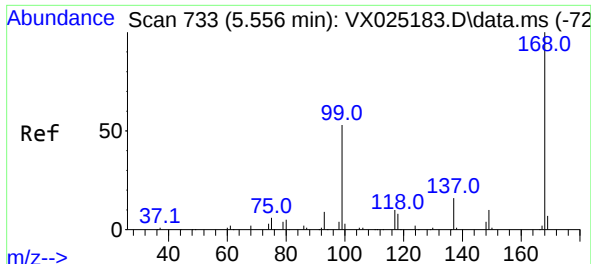
Quant Time: Dec 07 05:58:31 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 17 15:36:16 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 99146    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 163240   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 144921   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 63259    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 57650    | 55.164    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 110.320% |
| 35) Dibromofluoromethane      | 5.391  | 113   | 50457    | 50.377    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 100.760% |
| 50) Toluene-d8                | 8.653  | 98    | 186900   | 49.630    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 99.260%  |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 64955    | 45.594    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 91.180%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           |        | Qvalue   |
| 5) Bromomethane               | 1.605  | 94    | 275      | 0.547     | ug/l   | 92       |
| 6) Chloroethane               | 1.599  | 64    | 748      | 0.928     | ug/l # | 43       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.325  | 101   | 2712     | 2.939     | ug/l   | 97       |
| 10) Methyl Iodide             | 2.465  | 142   | 389      | 0.337     | ug/l # | 62       |
| 11) Tert butyl alcohol        | 2.940  | 59    | 1139     | Below Cal | #      | 72       |
| 12) 1,1-Dichloroethene        | 2.319  | 96    | 1066     | 1.160     | ug/l   | 78       |
| 16) Acetone                   | 2.380  | 43    | 643      | 1.107     | ug/l   | 94       |
| 20) Methylene Chloride        | 2.794  | 84    | 295      | 0.270     | ug/l # | 81       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96    | 390      | 0.332     | ug/l   | 91       |
| 31) Cyclohexane               | 5.556  | 56    | 1780     | 1.102     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 6965     | 4.890     | ug/l # | 49       |
| 39) Methylcyclohexane         | 7.123  | 83    | 589      | 0.322     | ug/l # | 1        |
| 44) Trichloroethene           | 7.129  | 130   | 53514    | 42.698    | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 821      | 0.486     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 31342    | 24.195    | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 31342    | 60.950    | ug/l # | 9        |
| 95) Naphthalene               | 13.780 | 128   | 63       | Below Cal | #      | 69       |
| -----                         |        |       |          |           |        |          |

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

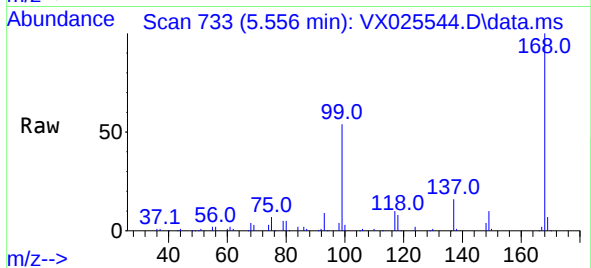
Quant Time: Dec 07 05:58:31 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 17 15:36:16 2021  
Response via : Initial Calibration



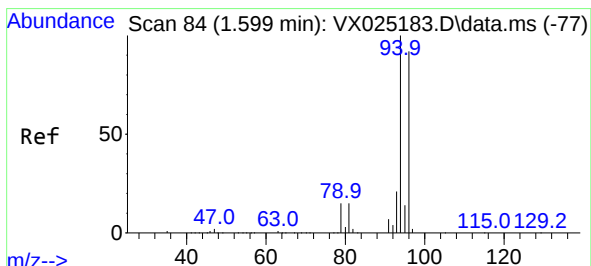
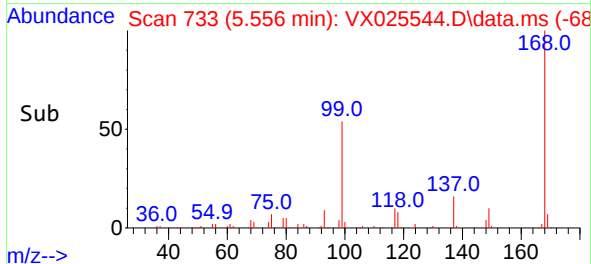
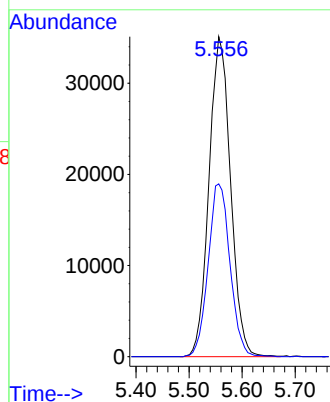


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Instrument :  
MSVOA\_X  
ClientSampleId :

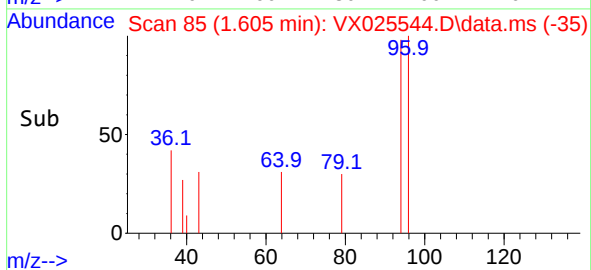
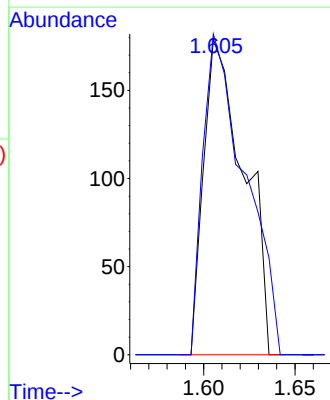
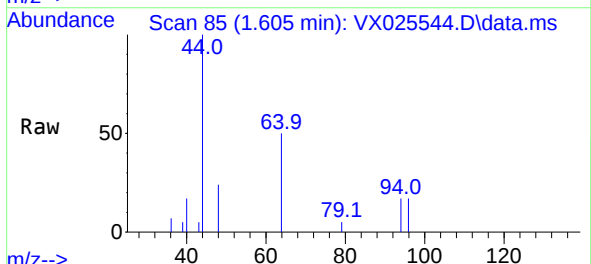


Tgt Ion:168 Resp: 99146  
Ion Ratio Lower Upper  
168 100  
99 54.0 46.4 69.6

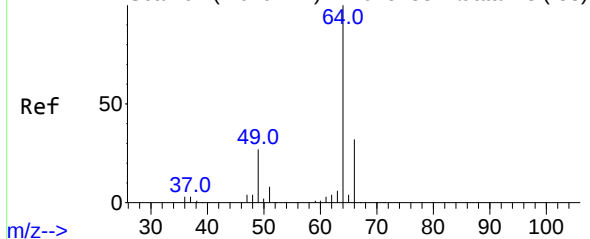


#5  
Bromomethane  
Concen: 0.547 ug/l  
RT: 1.605 min Scan# 85  
Delta R.T. 0.006 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Tgt Ion: 94 Resp: 275  
Ion Ratio Lower Upper  
94 100  
96 101.7 74.8 112.2



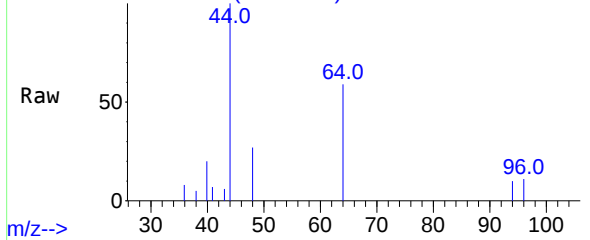
Abundance Scan 97 (1.679 min): VX025183.D\data.ms (-88)



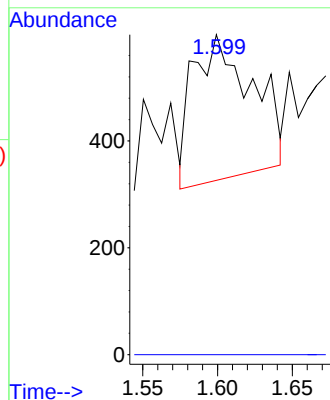
#6  
Chloroethane  
Concen: 0.928 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. -0.080 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Instrument :  
MSVOA\_X  
ClientSampleId :

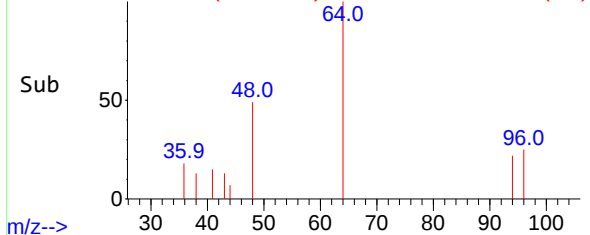
Abundance Scan 84 (1.599 min): VX025544.D\data.ms



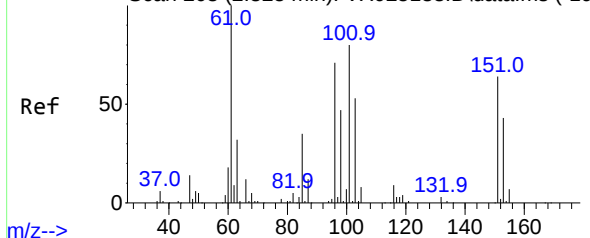
Tgt Ion: 64 Resp: 748  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.6 38.4#



Abundance Scan 84 (1.599 min): VX025544.D\data.ms (-48)



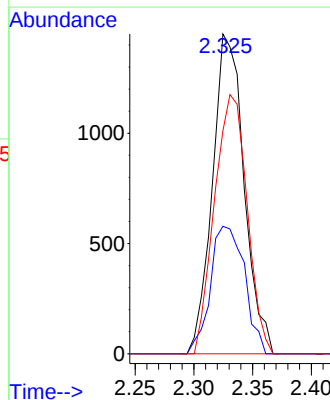
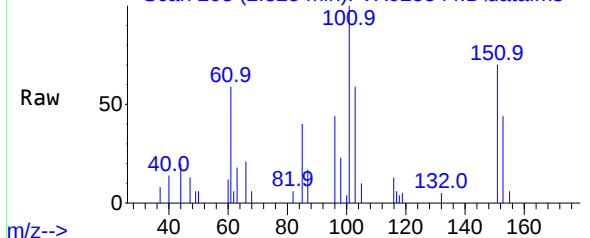
Abundance Scan 203 (2.325 min): VX025183.D\data.ms (-19)



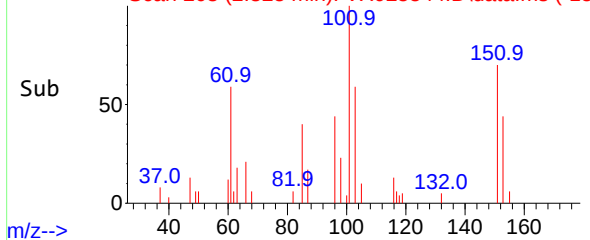
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 2.939 ug/l  
RT: 2.325 min Scan# 203  
Delta R.T. -0.000 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

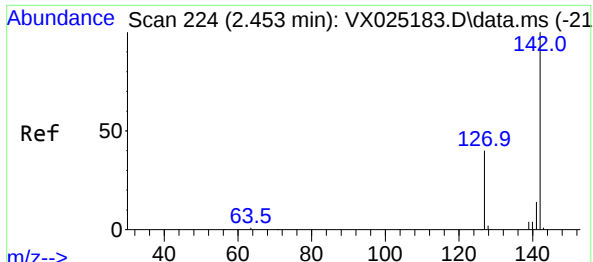
Tgt Ion: 101 Resp: 2712  
Ion Ratio Lower Upper  
101 100  
85 43.0 35.9 53.9  
151 83.5 64.4 96.6

Abundance Scan 203 (2.325 min): VX025544.D\data.ms



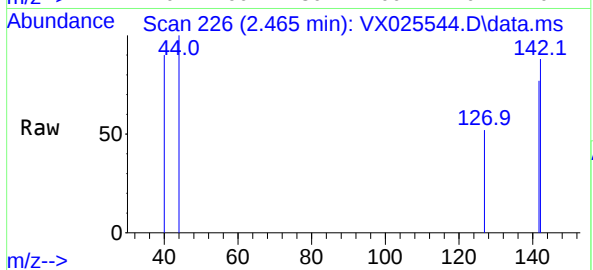
Abundance Scan 203 (2.325 min): VX025544.D\data.ms (-15)



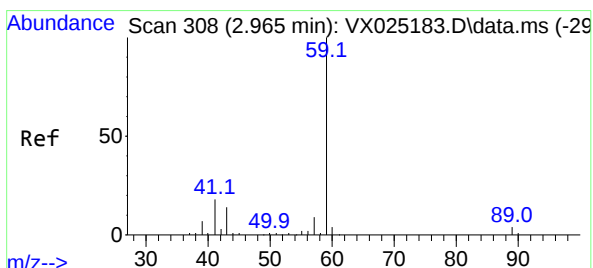
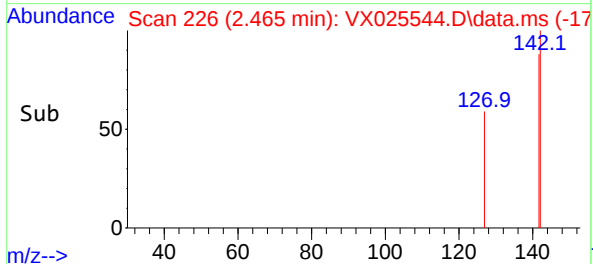
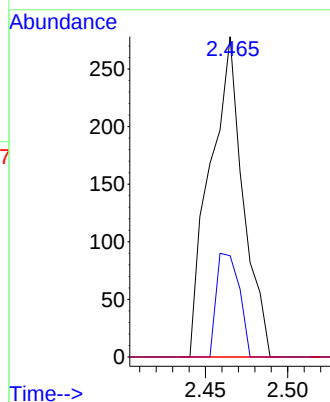


#10  
Methyl Iodide  
Concen: 0.337 ug/l  
RT: 2.465 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Instrument :  
MSVOA\_X  
ClientSampleId :

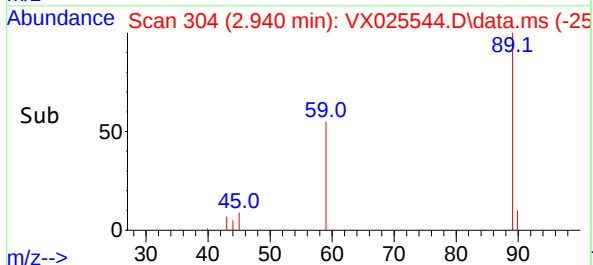
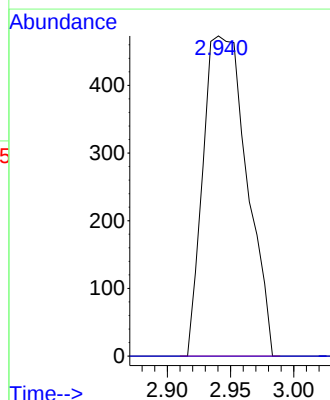
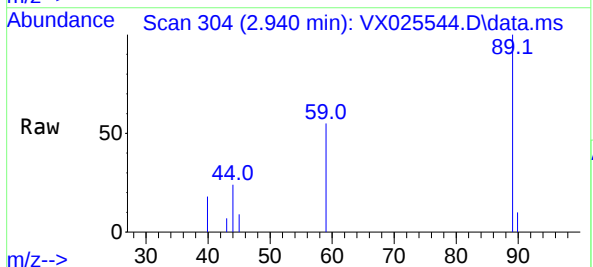


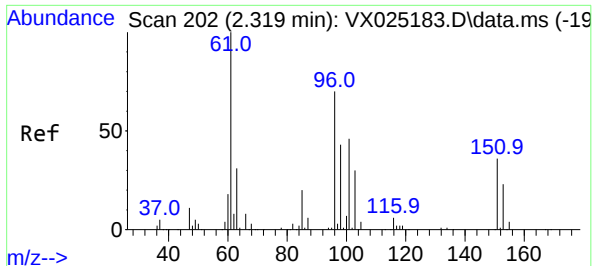
Tgt Ion:142 Resp: 389  
Ion Ratio Lower Upper  
142 100  
127 22.4 38.9 58.3#  
141 0.0 11.7 17.5#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.940 min Scan# 304  
Delta R.T. -0.025 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

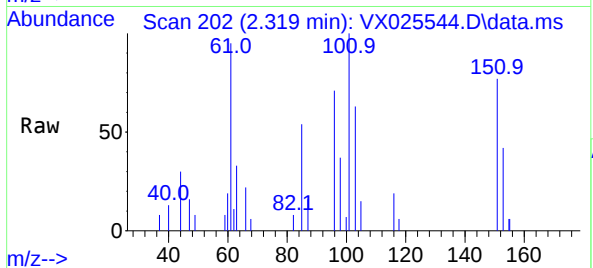
Tgt Ion: 59 Resp: 1139  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#





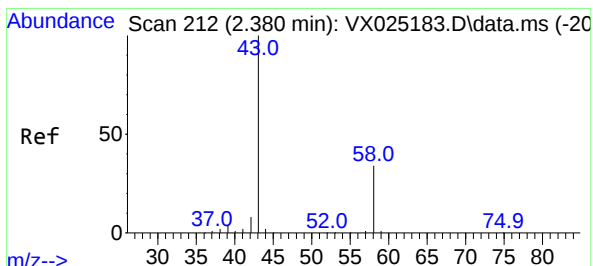
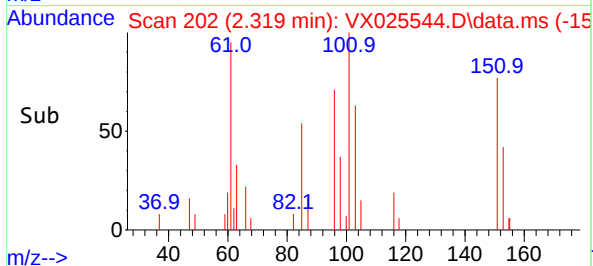
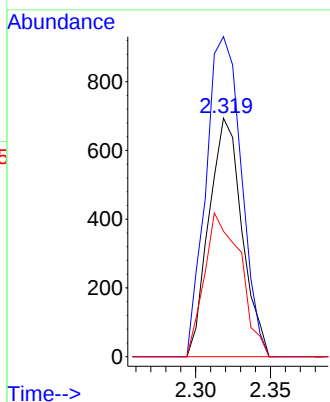
#12  
1,1-Dichloroethene  
Concen: 1.160 ug/l  
RT: 2.319 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 96 Resp: 1066

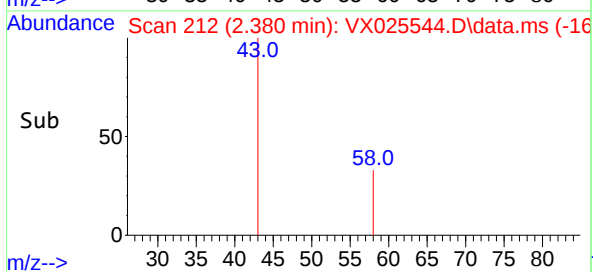
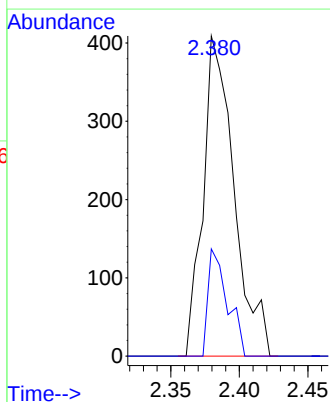
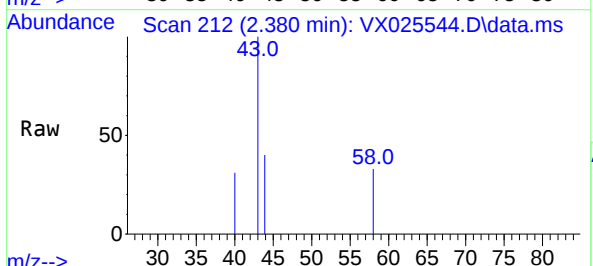
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 134.1 | 134.1 | 201.1 |
| 98  | 52.6  | 51.5  | 77.3  |

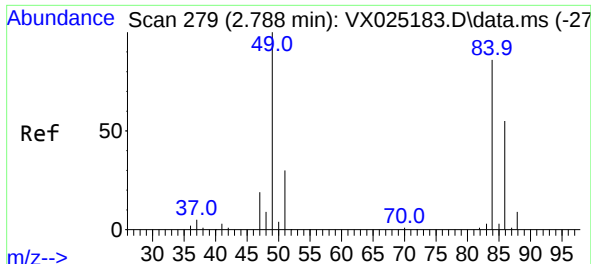


#16  
Acetone  
Concen: 1.107 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Tgt Ion: 43 Resp: 643

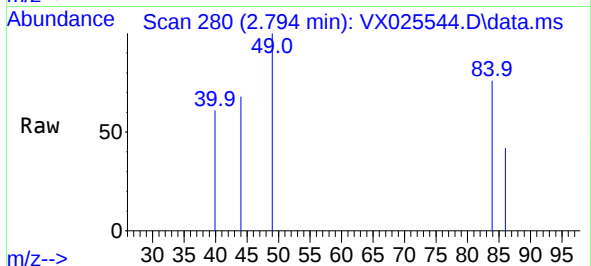
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 33.5  | 24.0  | 36.0  |





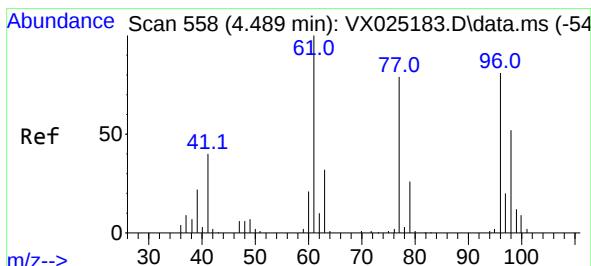
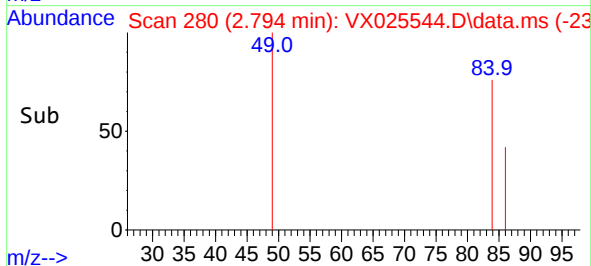
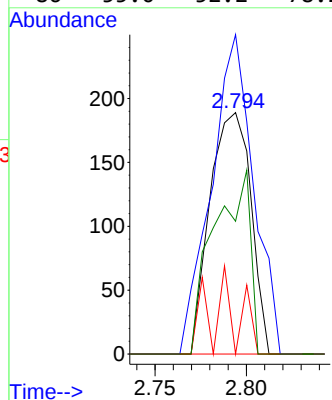
#20  
Methylene Chloride  
Concen: 0.270 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 84 Resp: 295

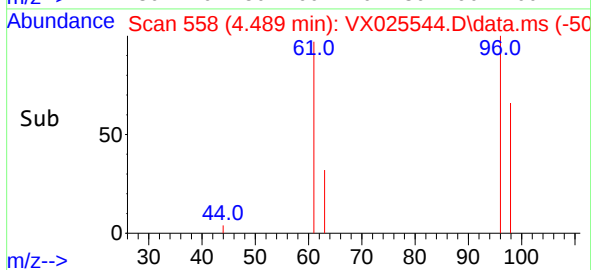
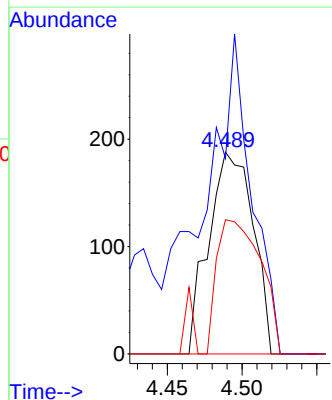
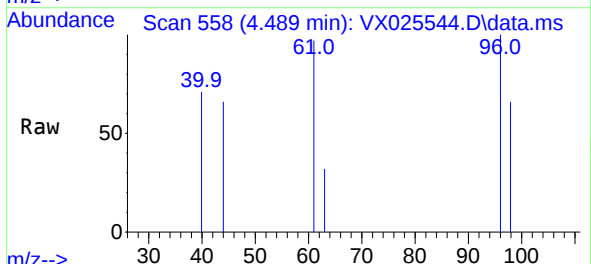
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 132.3 | 98.2  | 147.2 |
| 51  | 0.0   | 30.2  | 45.4# |
| 86  | 55.0  | 52.2  | 78.2  |

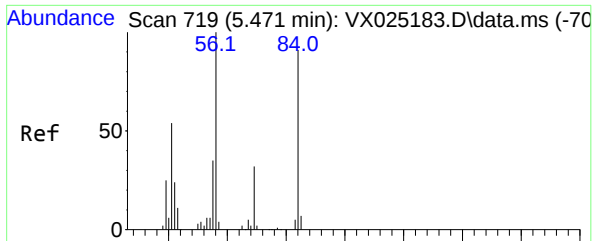


#27  
cis-1,2-Dichloroethene  
Concen: 0.332 ug/l  
RT: 4.489 min Scan# 558  
Delta R.T. -0.000 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Tgt Ion: 96 Resp: 390

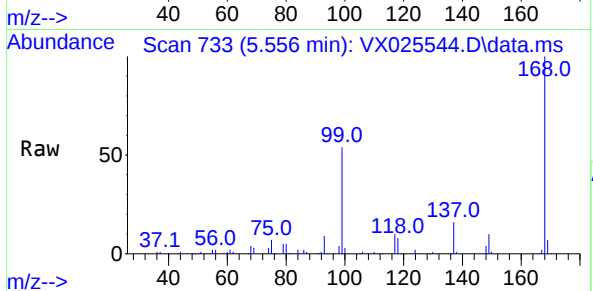
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 166.7 | 0.0   | 302.2 |
| 98  | 65.6  | 0.0   | 131.4 |



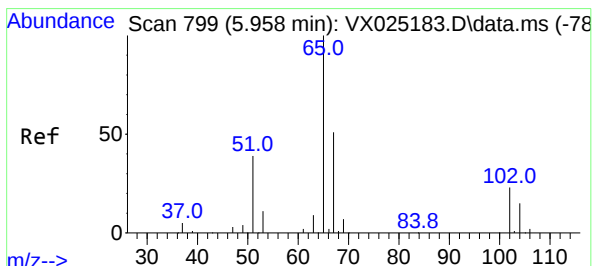
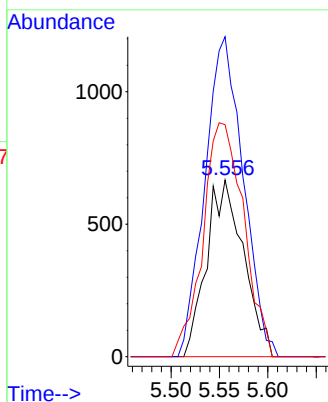
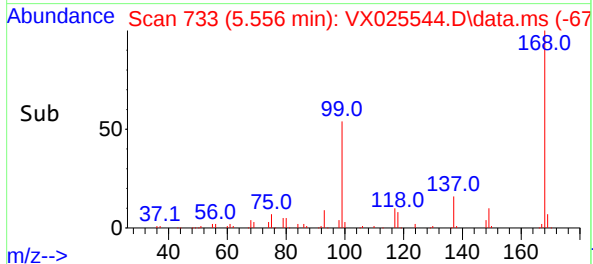


#31  
Cyclohexane  
Concen: 1.102 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.085 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Instrument :  
MSVOA\_X  
ClientSampleId :

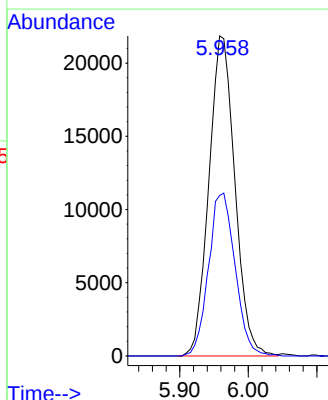
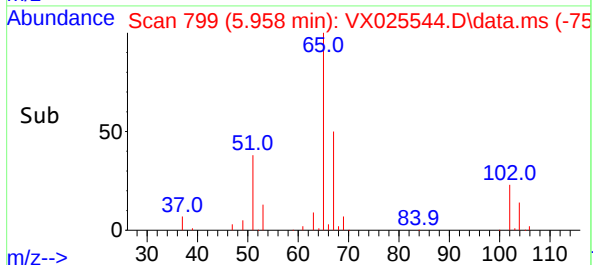
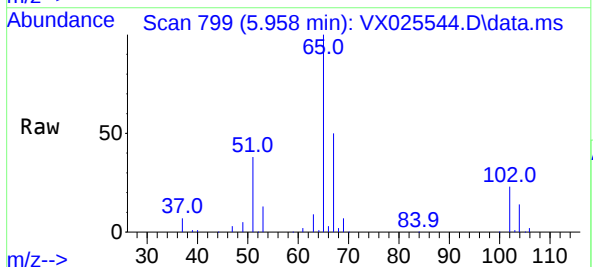


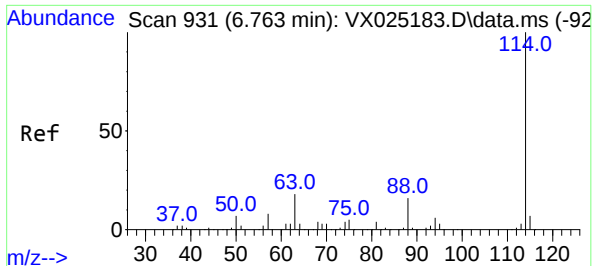
Tgt Ion: 56 Resp: 1780  
Ion Ratio Lower Upper  
56 100  
69 181.1 24.2 36.2#  
84 131.3 71.5 107.3#



#33  
1,2-Dichloroethane-d4  
Concen: 55.164 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Tgt Ion: 65 Resp: 57650  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 101.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX025544.D

Acq: 06 Dec 2021 13:21

Instrument :

MSVOA\_X

ClientSampleId :

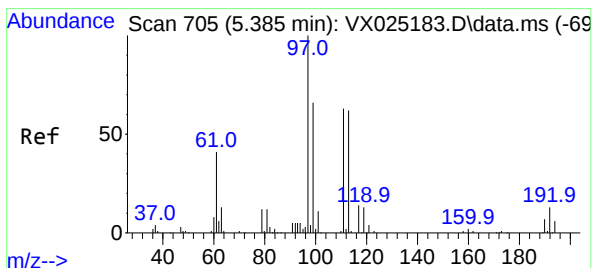
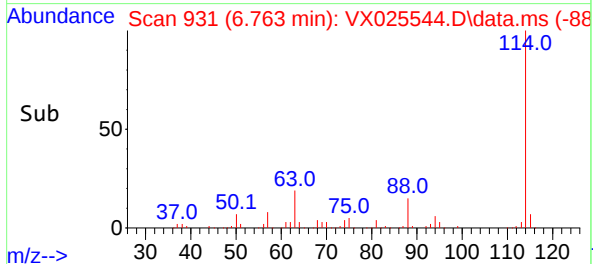
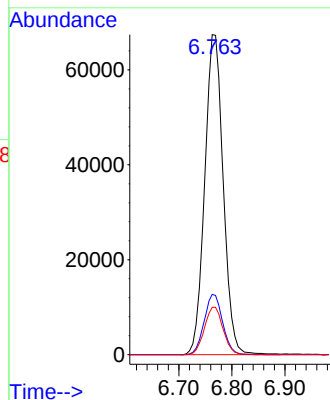
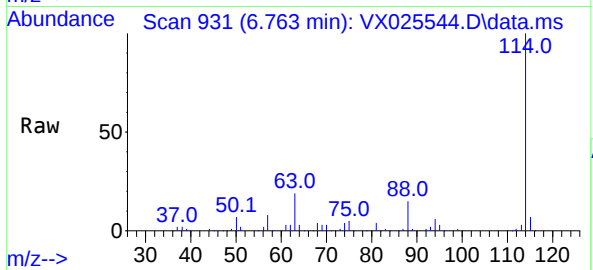
Tgt Ion:114 Resp: 163240

Ion Ratio Lower Upper

114 100

63 18.8 0.0 41.0

88 14.8 0.0 34.8



#35

Dibromofluoromethane

Concen: 50.377 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.006 min

Lab File: VX025544.D

Acq: 06 Dec 2021 13:21

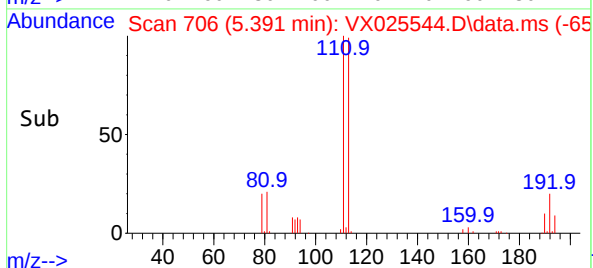
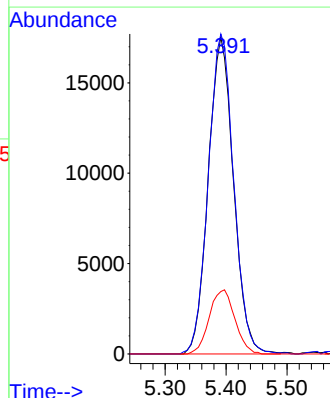
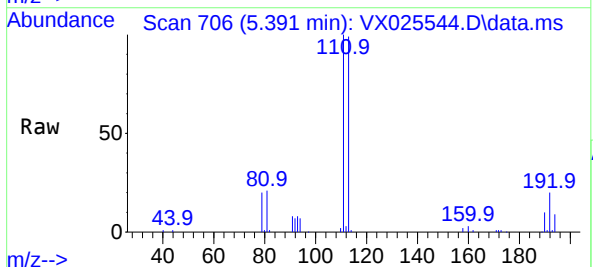
Tgt Ion:113 Resp: 50457

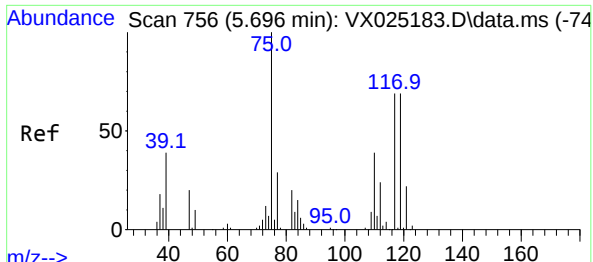
Ion Ratio Lower Upper

113 100

111 101.9 82.1 123.1

192 20.6 15.6 23.4





#36

1,1-Dichloropropene

Concen: 4.890 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.140 min

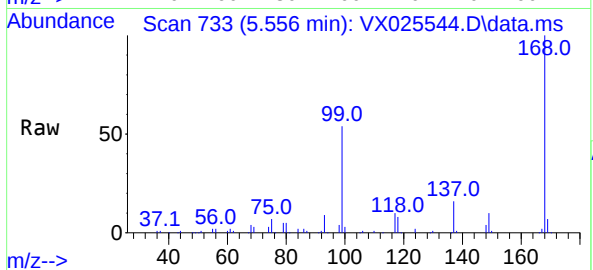
Lab File: VX025544.D

Acq: 06 Dec 2021 13:21

Instrument :

MSVOA\_X

ClientSampleId :



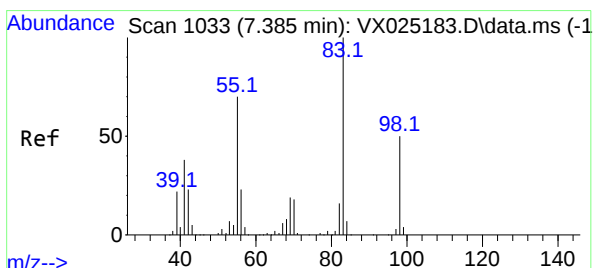
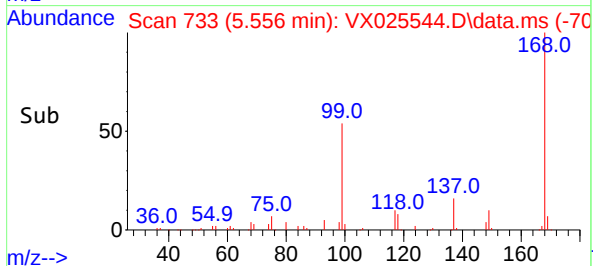
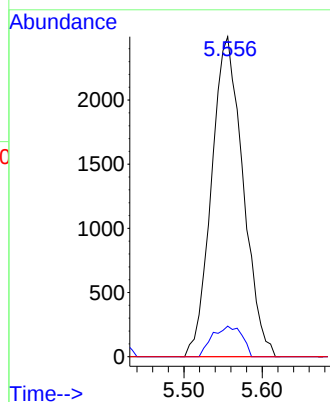
Tgt Ion: 75 Resp: 6965

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.3#

77 0.0 24.4 36.6#



#39

Methylcyclohexane

Concen: 0.322 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.262 min

Lab File: VX025544.D

Acq: 06 Dec 2021 13:21

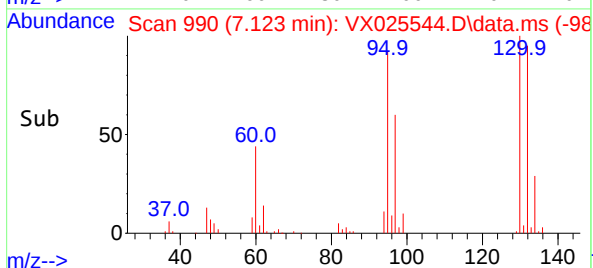
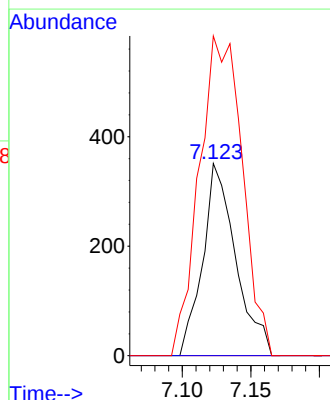
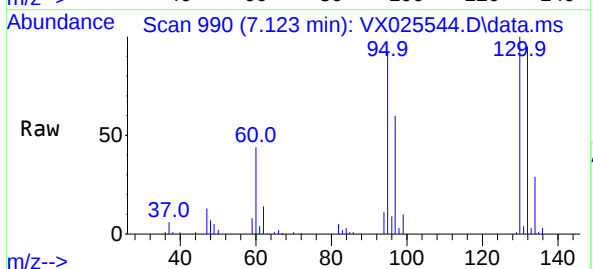
Tgt Ion: 83 Resp: 589

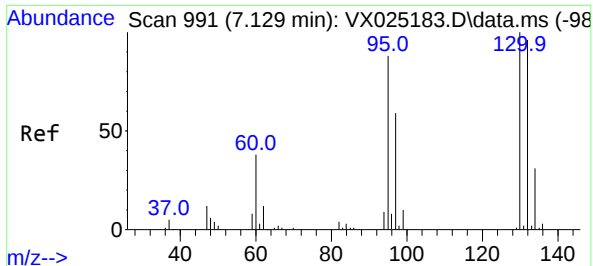
Ion Ratio Lower Upper

83 100

55 0.0 60.8 91.2#

98 166.4 37.0 55.4#

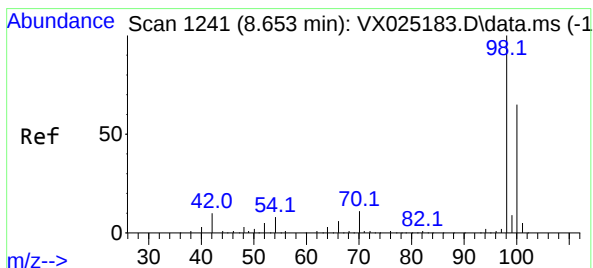
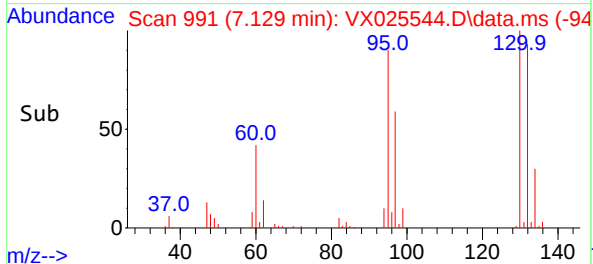
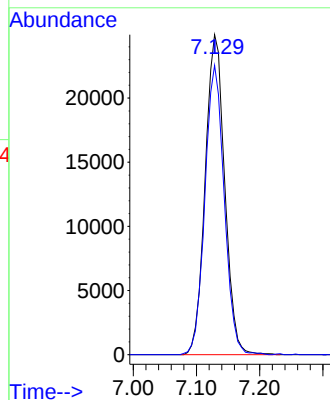
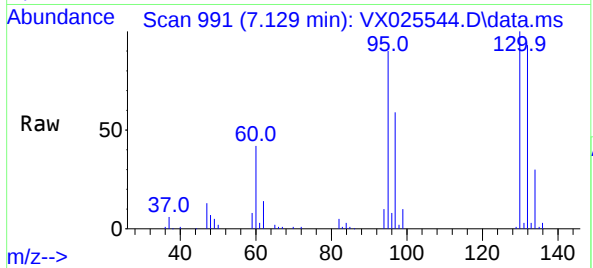




#44  
Trichloroethene  
Concen: 42.698 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

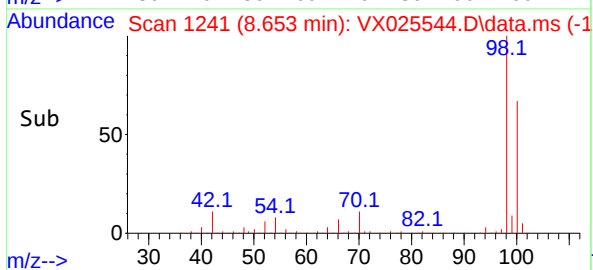
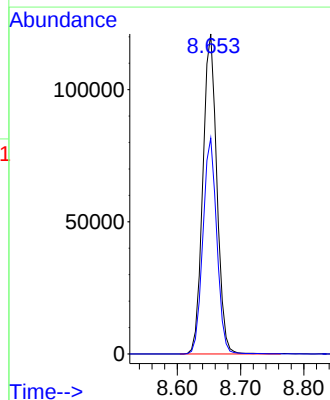
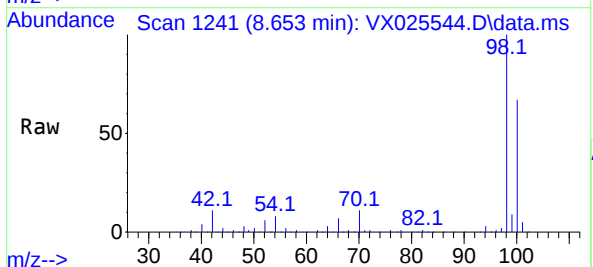
Instrument :  
MSVOA\_X  
ClientSampleId :

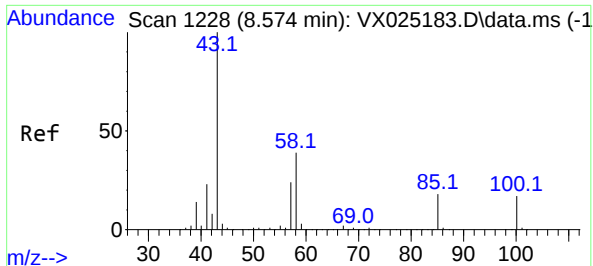
Tgt Ion:130 Resp: 53514  
Ion Ratio Lower Upper  
130 100  
95 90.4 0.0 196.8



#50  
Toluene-d8  
Concen: 49.630 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Tgt Ion: 98 Resp: 186900  
Ion Ratio Lower Upper  
98 100  
100 66.7 51.4 77.0

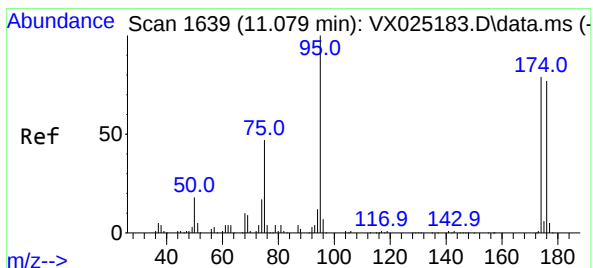
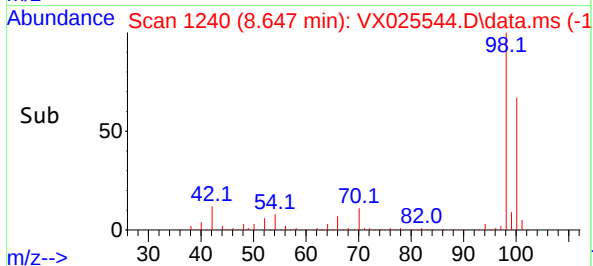
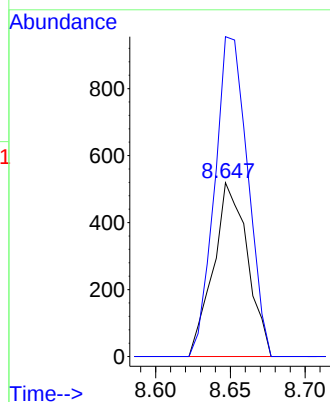
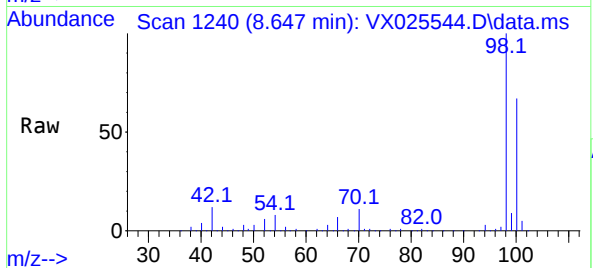




#51  
4-Methyl-2-Pentanone  
Concen: 0.486 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

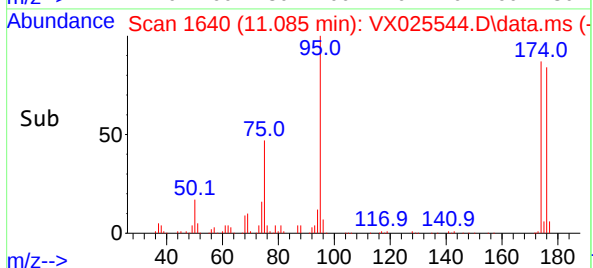
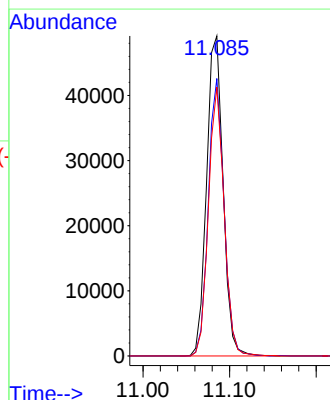
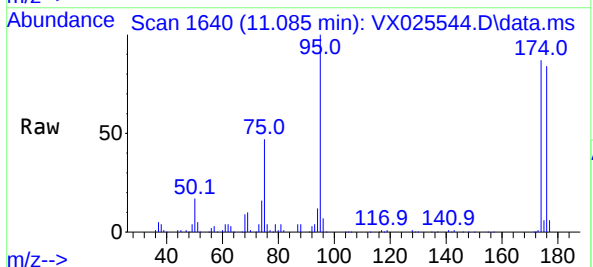
Instrument :  
MSVOA\_X  
ClientSampleId :

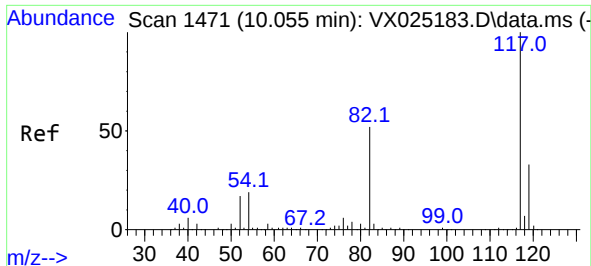
Tgt Ion: 43 Resp: 821  
Ion Ratio Lower Upper  
43 100  
58 178.8 30.9 46.3#



#62  
4-Bromofluorobenzene  
Concen: 45.594 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.006 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Tgt Ion: 95 Resp: 64955  
Ion Ratio Lower Upper  
95 100  
174 82.5 0.0 158.0  
176 80.1 0.0 153.6

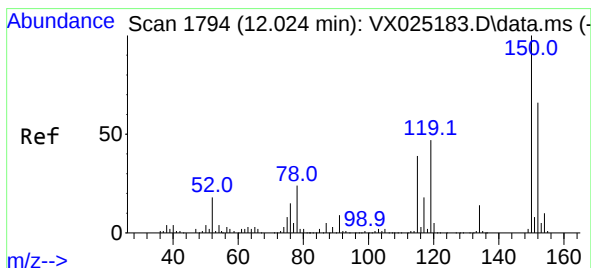
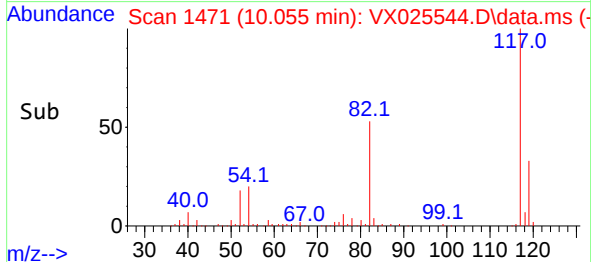
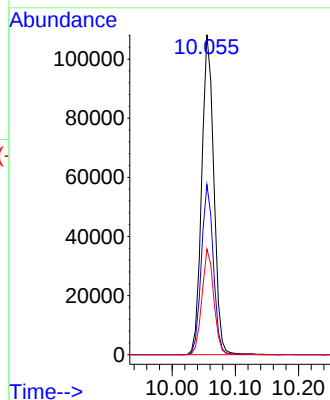
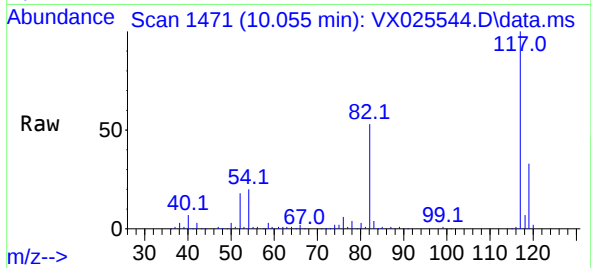




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

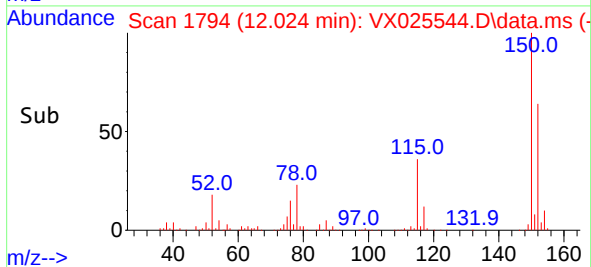
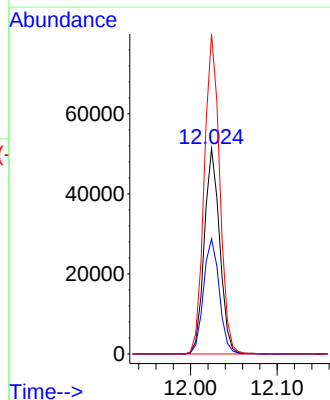
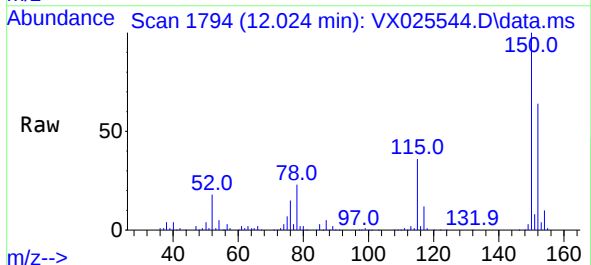
Instrument :  
MSVOA\_X  
ClientSampleId :

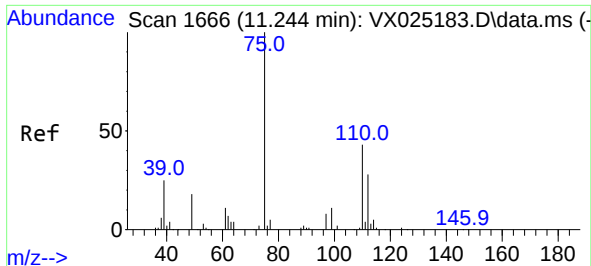
Tgt Ion:117 Resp: 144921  
Ion Ratio Lower Upper  
117 100  
82 53.1 44.6 67.0  
119 33.0 24.8 37.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Tgt Ion:152 Resp: 63259  
Ion Ratio Lower Upper  
152 100  
115 57.5 43.3 129.8  
150 156.8 0.0 351.2

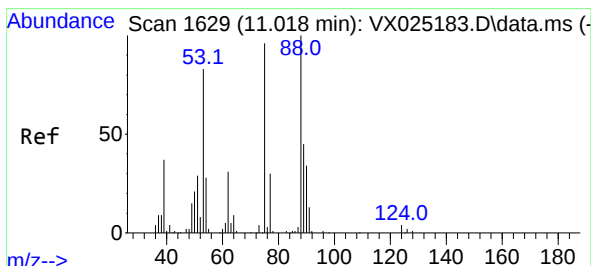
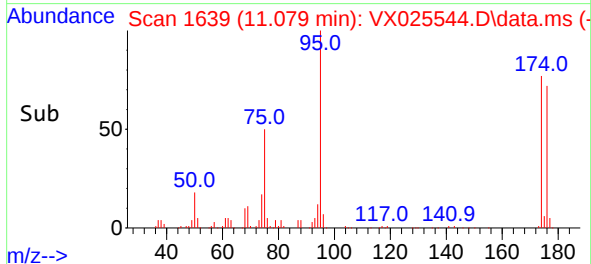
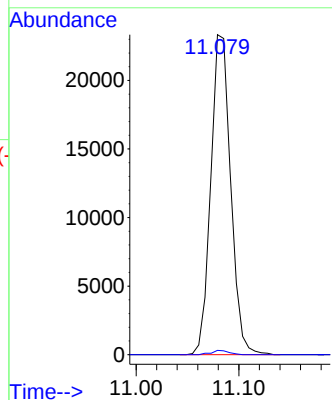
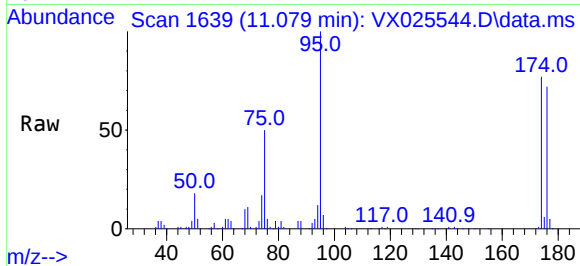




#76  
1,2,3-Trichloropropane  
Concen: 24.195 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

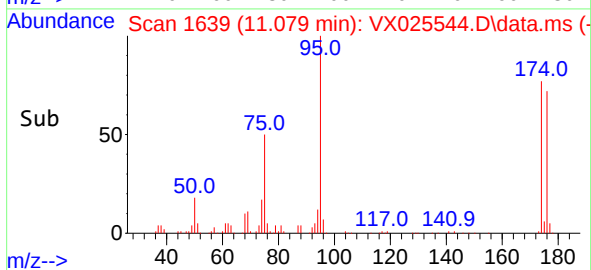
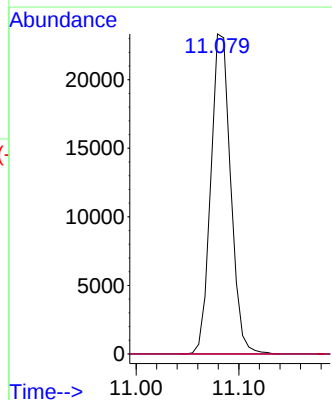
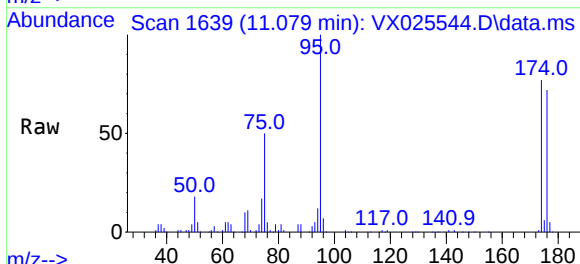
Instrument :  
MSVOA\_X  
ClientSampleId :

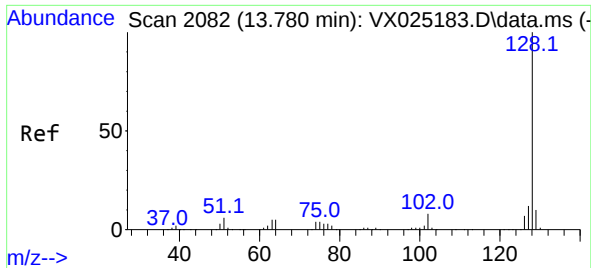
Tgt Ion: 75 Resp: 31342  
Ion Ratio Lower Upper  
75 100  
77 1.2 20.0 59.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.950 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

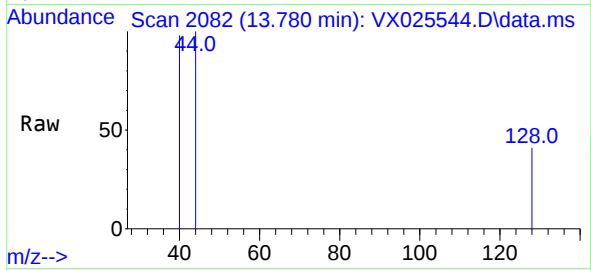
Tgt Ion: 75 Resp: 31342  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.9 122.9#  
89 0.0 38.2 57.2#





#95  
Naphthalene  
Concen: Below Cal  
RT: 13.780 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VX025544.D  
Acq: 06 Dec 2021 13:21

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion:128 Resp: 63  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

