

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032922\  
 Data File : VX027790.D  
 Acq On : 29 Mar 2022 21:52  
 Operator : JC/MD  
 Sample : N2041-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE117D1-20220317

Quant Time: Mar 30 05:15:52 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032922W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 04:39:27 2022  
 Response via : Initial Calibration

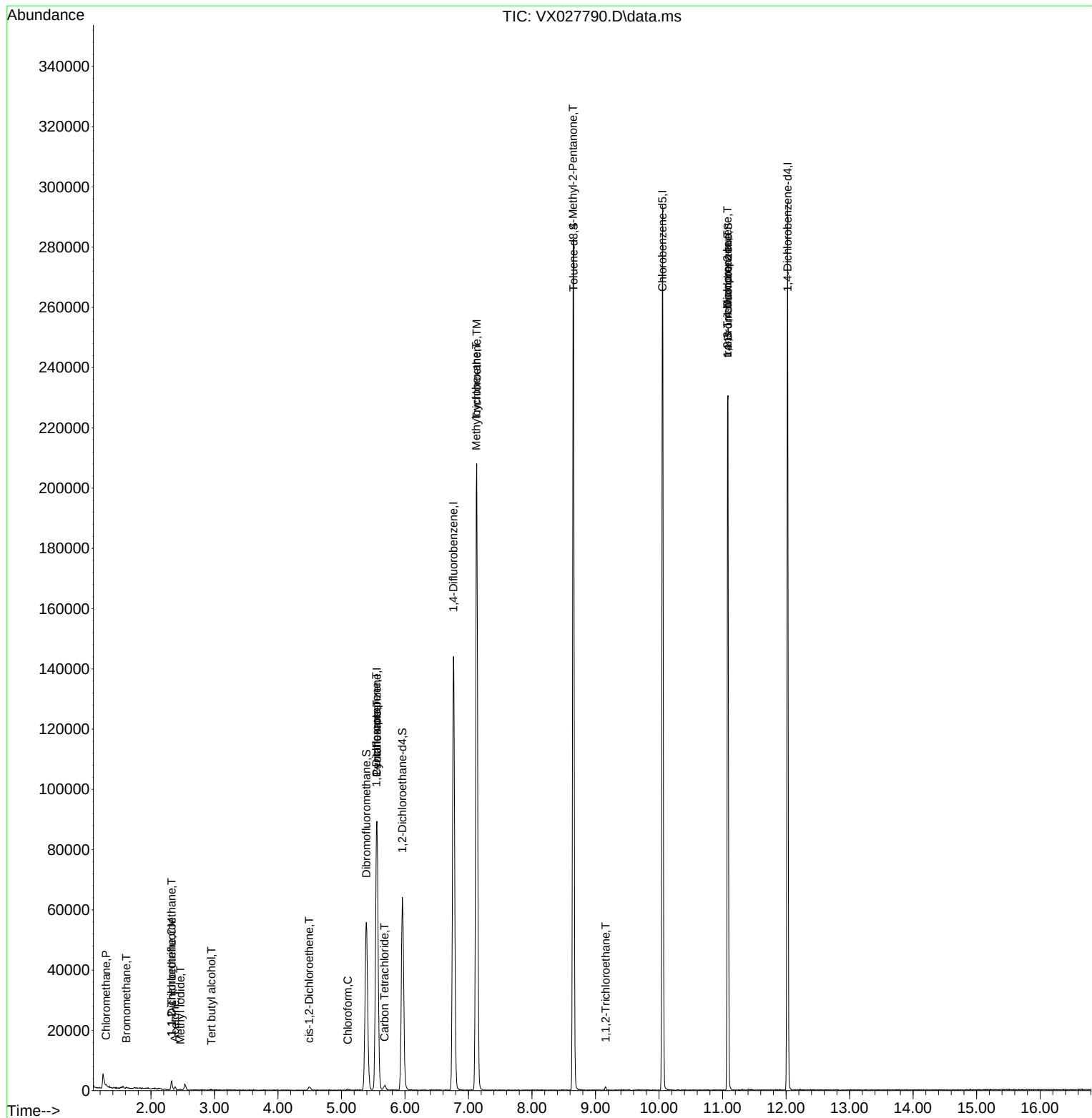
| Compound                      | R.T. QIon |       | Response | Conc     | Units | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|-------|----------|
| -----                         |           |       |          |          |       |          |
| Internal Standards            |           |       |          |          |       |          |
| 1) Pentafluorobenzene         | 5.556     | 168   | 76776    | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763     | 114   | 136499   | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 120275   | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 53326    | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds   |           |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.958     | 65    | 65294    | 65.912   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000    | Range | 61 - 141 | Recovery | =     | 131.820% |
| 35) Dibromofluoromethane      | 5.391     | 113   | 48073    | 54.562   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000    | Range | 69 - 133 | Recovery | =     | 109.120% |
| 50) Toluene-d8                | 8.653     | 98    | 160195   | 51.676   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000    | Range | 65 - 126 | Recovery | =     | 103.360% |
| 62) 4-Bromofluorobenzene      | 11.085    | 95    | 64170    | 48.710   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 135 | Recovery | =     | 97.420%  |
| Target Compounds              |           |       |          |          |       |          |
|                               |           |       |          |          |       | Qvalue   |
| 3) Chloromethane              | 1.294     | 50    | 138      | 0.224    | ug/l  | # 42     |
| 5) Bromomethane               | 1.611     | 94    | 160      | 0.563    | ug/l  | # 74     |
| 9) 1,1,2-Trichlorotrifluo...  | 2.325     | 101   | 633      | 0.881    | ug/l  | 88       |
| 10) Methyl Iodide             | 2.465     | 142   | 259      | 0.310    | ug/l  | # 74     |
| 11) Tert butyl alcohol        | 2.953     | 59    | 48       | 0.252    | ug/l  | # 72     |
| 12) 1,1-Dichloroethene        | 2.325     | 96    | 725      | 1.099    | ug/l  | # 64     |
| 16) Acetone                   | 2.380     | 43    | 1217     | 2.776    | ug/l  | # 81     |
| 27) cis-1,2-Dichloroethene    | 4.489     | 96    | 764      | 0.885    | ug/l  | 92       |
| 30) Chloroform                | 5.099     | 83    | 339      | 0.223    | ug/l  | 92       |
| 31) Cyclohexane               | 5.556     | 56    | 2239     | 2.045    | ug/l  | # 33     |
| 36) 1,1-Dichloropropene       | 5.550     | 75    | 7406     | 6.674    | ug/l  | # 49     |
| 38) Carbon Tetrachloride      | 5.678     | 117   | 1336     | 1.090    | ug/l  | 89       |
| 39) Methylcyclohexane         | 7.123     | 83    | 982      | 0.752    | ug/l  | # 1      |
| 44) Trichloroethene           | 7.129     | 130   | 71657    | 78.407   | ug/l  | 86       |
| 51) 4-Methyl-2-Pentanone      | 8.647     | 43    | 853      | 0.558    | ug/l  | # 1      |
| 55) 1,1,2-Trichloroethane     | 9.159     | 97    | 346      | 0.368    | ug/l  | # 83     |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75    | 36509    | 29.185   | ug/l  | # 38     |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75    | 36509    | 85.105   | ug/l  | # 15     |
| -----                         |           |       |          |          |       |          |

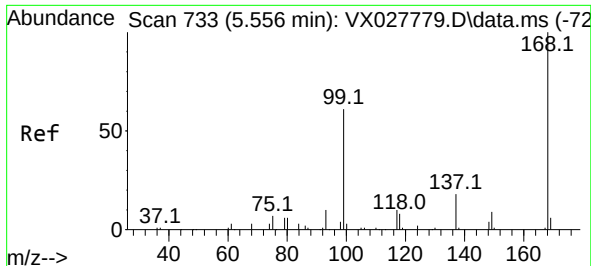
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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ClientSampleId :  
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Quant Title : SW846 8260  
QLast Update : Wed Mar 30 04:39:27 2022  
Response via : Initial Calibration

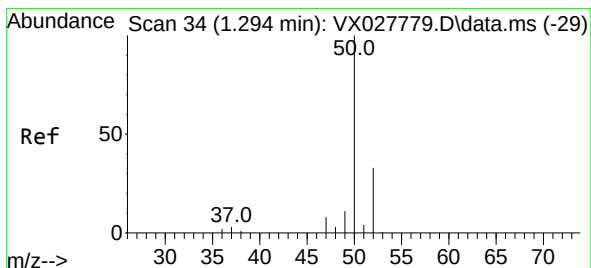
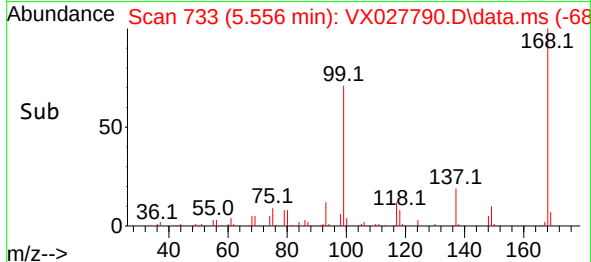
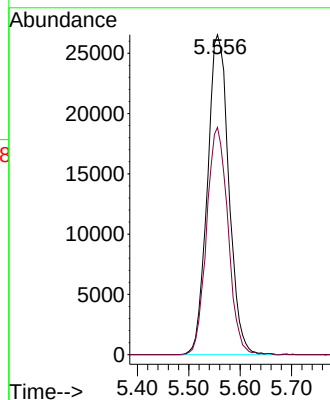
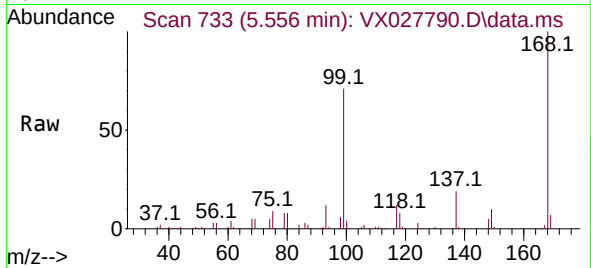




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

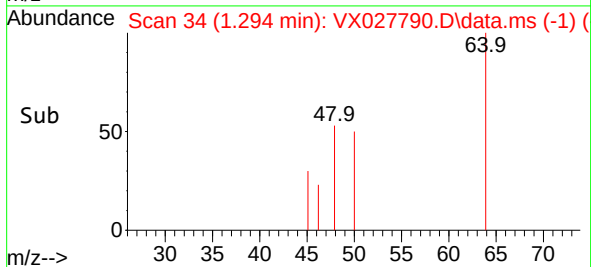
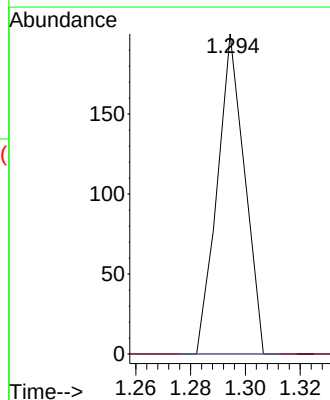
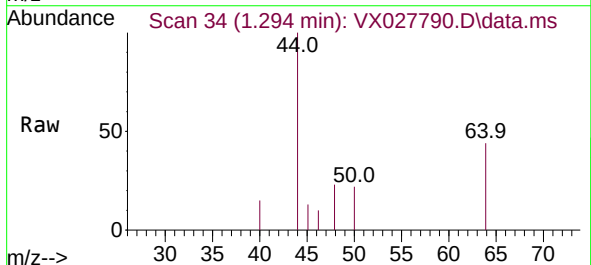
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE117D1-20220317

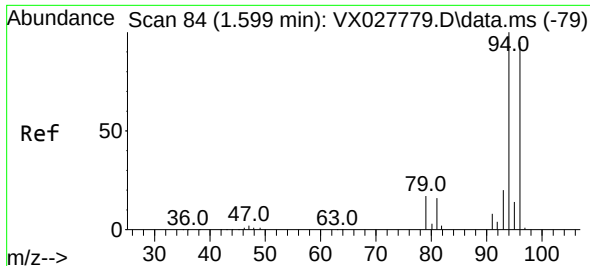
Tgt Ion:168 Resp: 76776  
Ion Ratio Lower Upper  
168 100  
99 71.0 41.7 62.5#



#3  
Chloromethane  
Concen: 0.224 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

Tgt Ion: 50 Resp: 138  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.4 39.6#

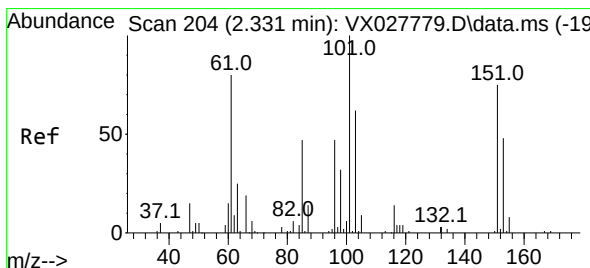
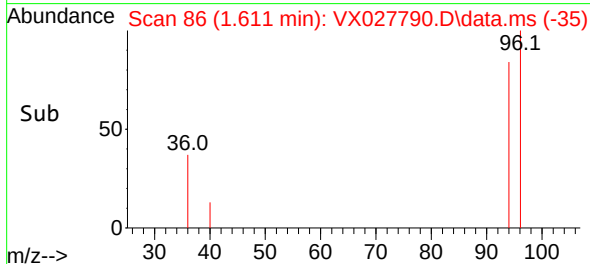
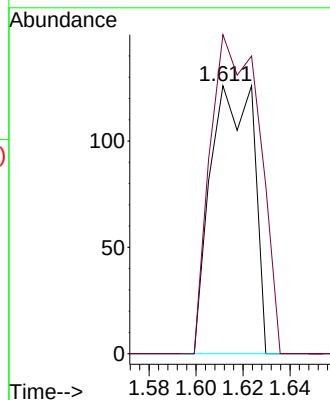
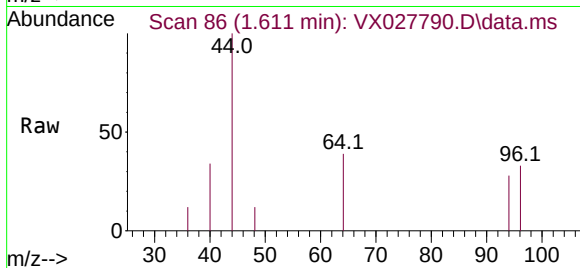




#5  
Bromomethane  
Concen: 0.563 ug/l  
RT: 1.611 min Scan# 84  
Delta R.T. 0.012 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

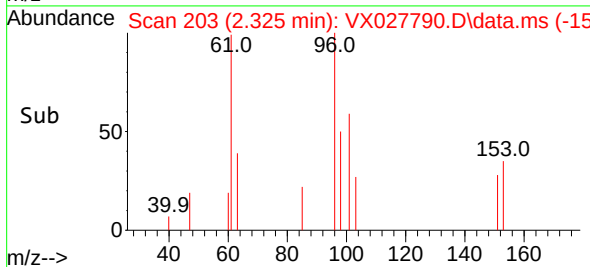
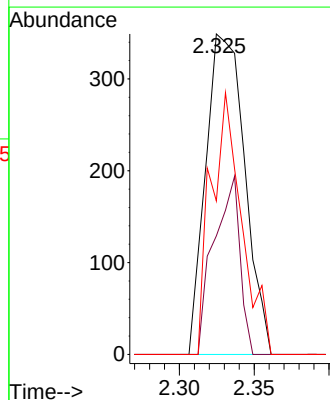
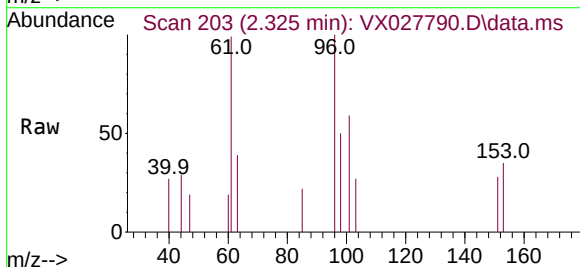
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE117D1-20220317

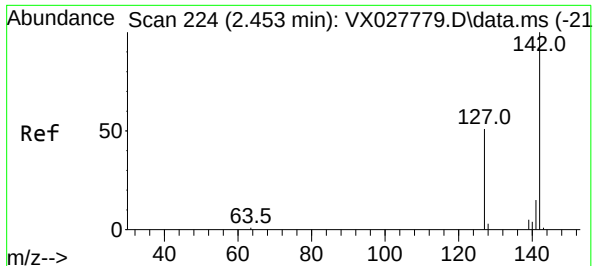
Tgt Ion: 94 Resp: 160  
Ion Ratio Lower Upper  
94 100  
96 119.0 75.3 112.9#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.881 ug/l  
RT: 2.325 min Scan# 203  
Delta R.T. -0.006 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

Tgt Ion: 101 Resp: 633  
Ion Ratio Lower Upper  
101 100  
85 37.1 33.5 50.3  
151 64.3 61.8 92.6

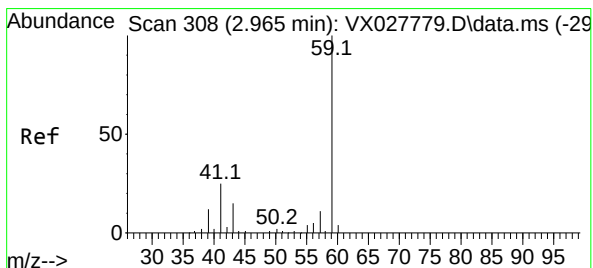
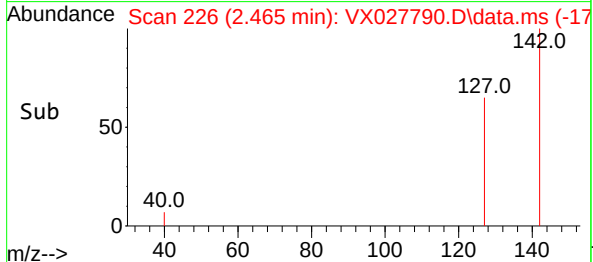
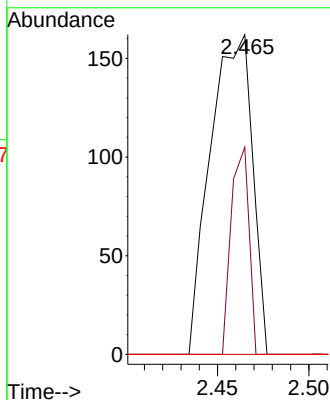
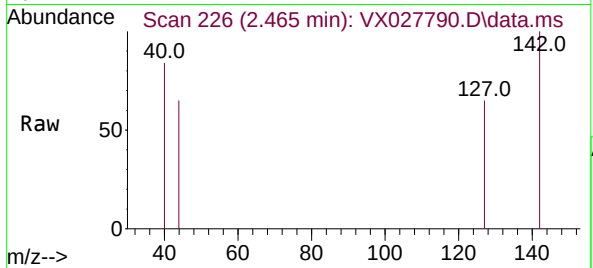




#10  
Methyl Iodide  
Concen: 0.310 ug/l  
RT: 2.465 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

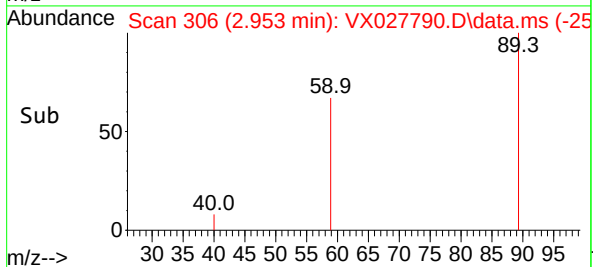
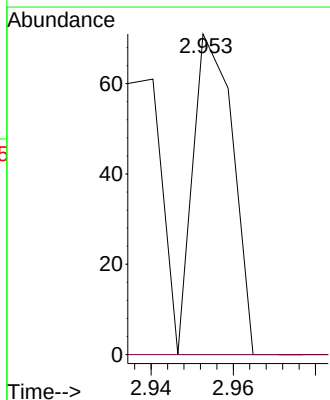
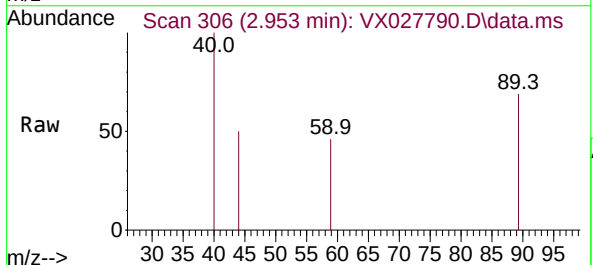
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE117D1-20220317

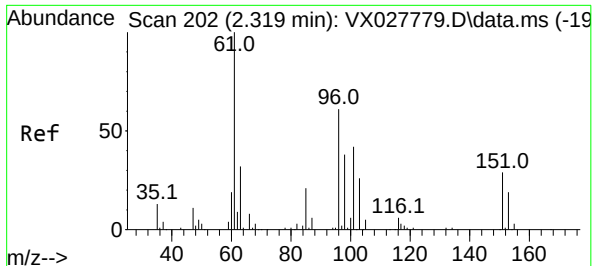
Tgt Ion:142 Resp: 259  
Ion Ratio Lower Upper  
142 100  
127 27.4 33.9 50.9#  
141 0.0 11.4 17.2#



#11  
Tert butyl alcohol  
Concen: 0.252 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.012 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

Tgt Ion: 59 Resp: 48  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#





#12

1,1-Dichloroethene

Concen: 1.099 ug/l

RT: 2.325 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX027790.D

Acq: 29 Mar 2022 21:52

Instrument :

MSVOA\_X

ClientSampleId :

RE117D1-20220317

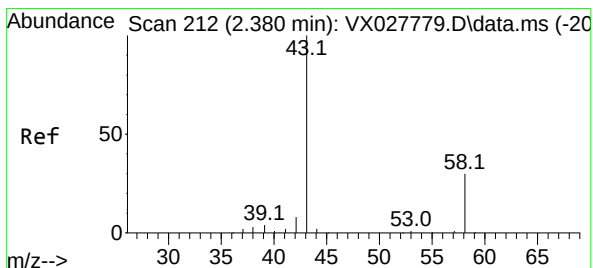
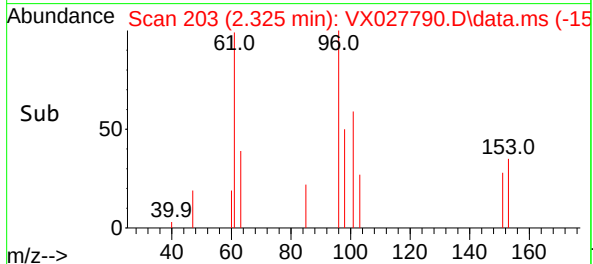
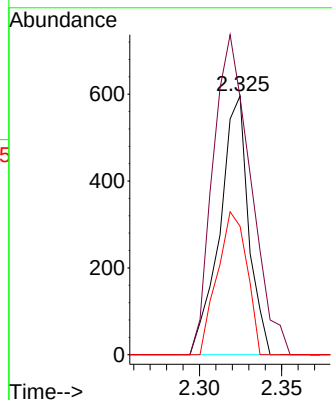
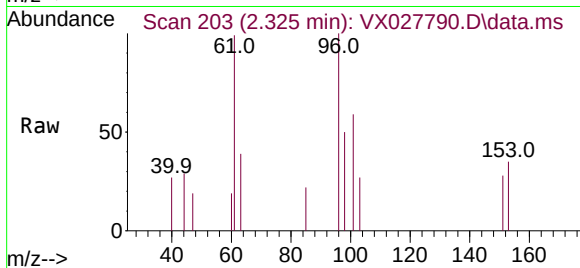
Tgt Ion: 96 Resp: 725

Ion Ratio Lower Upper

96 100

61 99.5 124.6 187.0#

98 49.7 51.0 76.4#



#16

Acetone

Concen: 2.776 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX027790.D

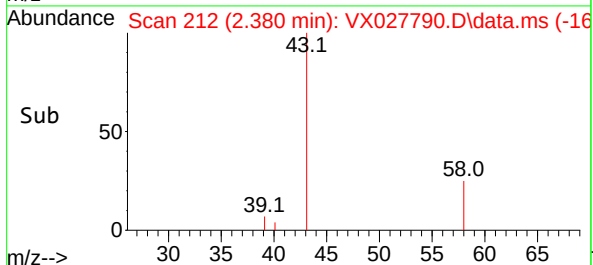
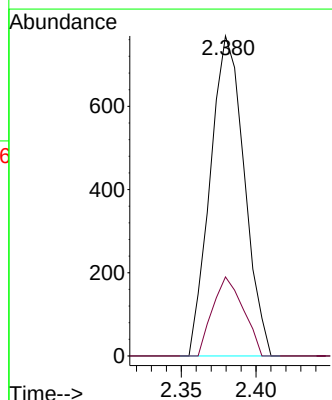
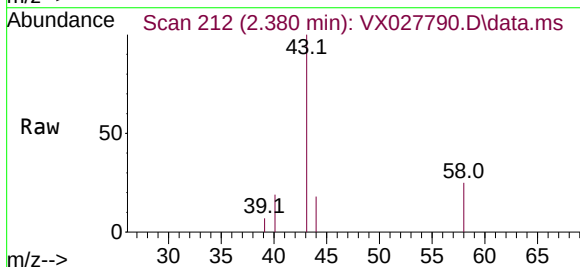
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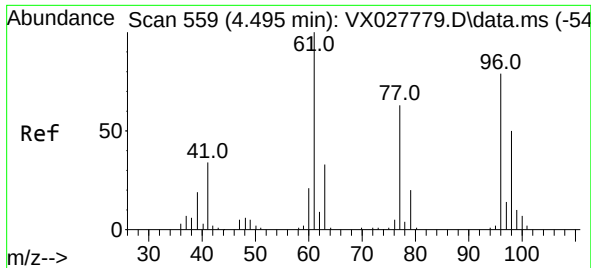
Tgt Ion: 43 Resp: 1217

Ion Ratio Lower Upper

43 100

58 24.7 28.8 43.2#





#27

cis-1,2-Dichloroethene

Concen: 0.885 ug/l

RT: 4.489 min Scan# 559

Delta R.T. -0.006 min

Lab File: VX027790.D

Acq: 29 Mar 2022 21:52

Instrument :

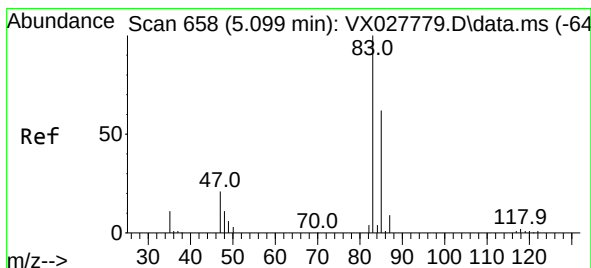
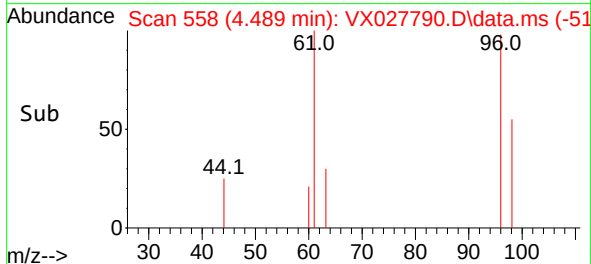
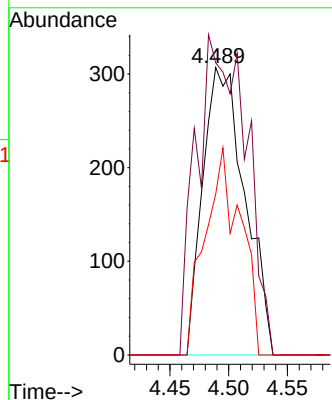
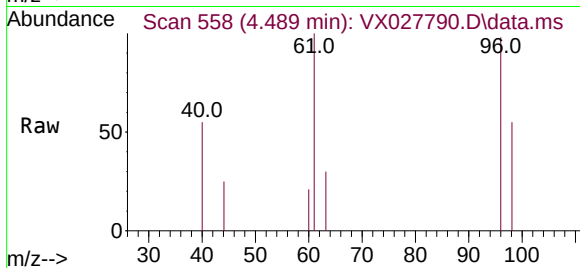
MSVOA\_X

ClientSampleId :

RE117D1-20220317

Tgt Ion: 96 Resp: 764

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 131.2 | 0.0   | 283.8 |
| 98  | 61.0  | 0.0   | 129.8 |



#30

Chloroform

Concen: 0.223 ug/l

RT: 5.099 min Scan# 658

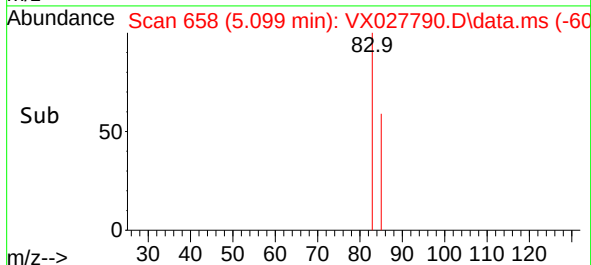
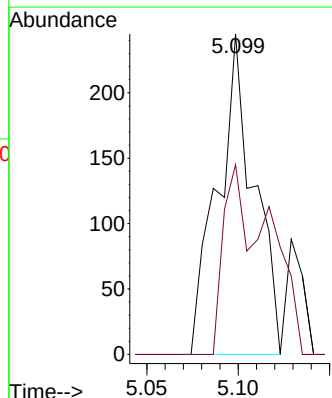
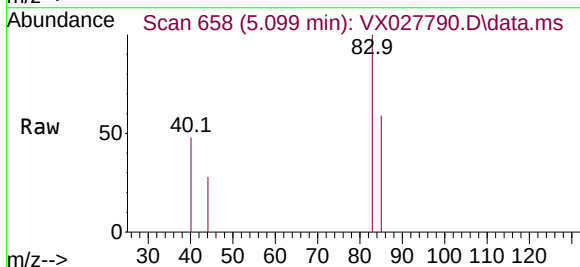
Delta R.T. -0.000 min

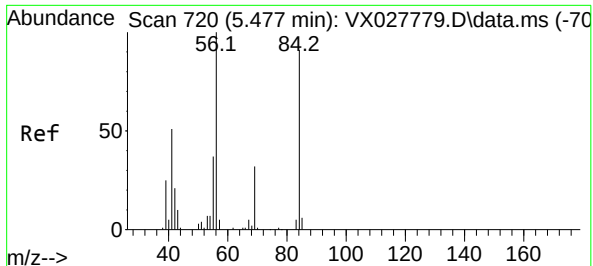
Lab File: VX027790.D

Acq: 29 Mar 2022 21:52

Tgt Ion: 83 Resp: 339

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 59.2  | 52.7  | 79.1  |

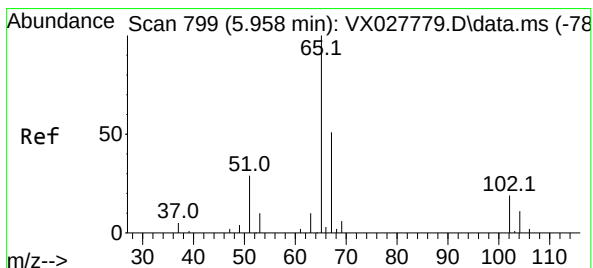
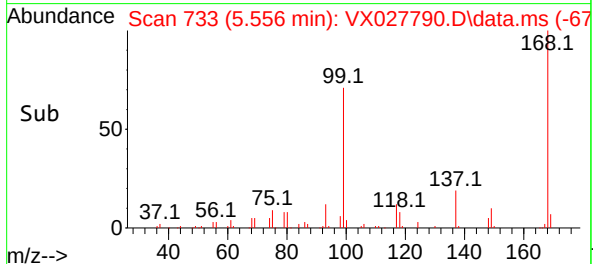
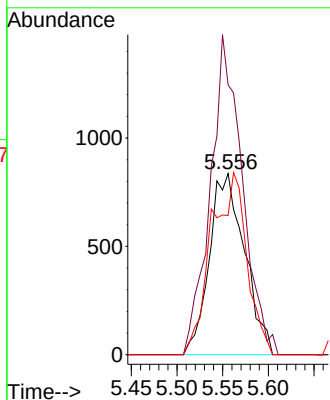
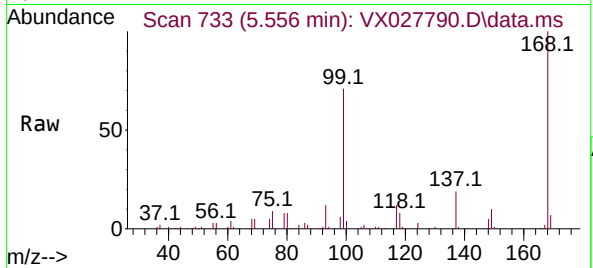




#31  
Cyclohexane  
Concen: 2.045 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. 0.079 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

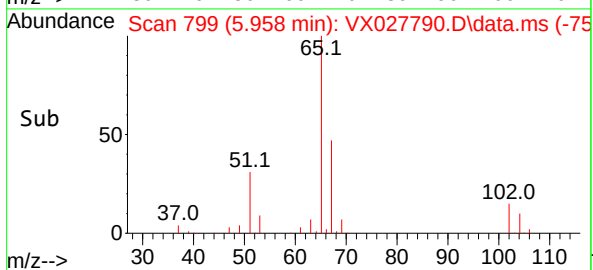
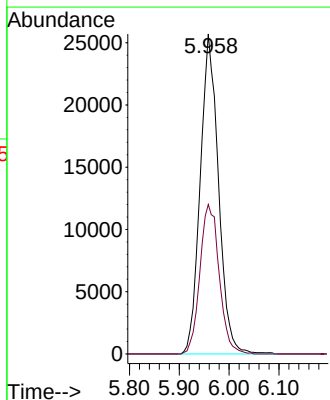
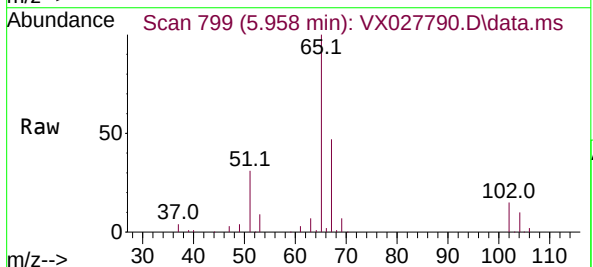
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE117D1-20220317

Tgt Ion: 56 Resp: 2239  
Ion Ratio Lower Upper  
56 100  
69 148.9 26.7 40.1#  
84 76.9 77.2 115.8#

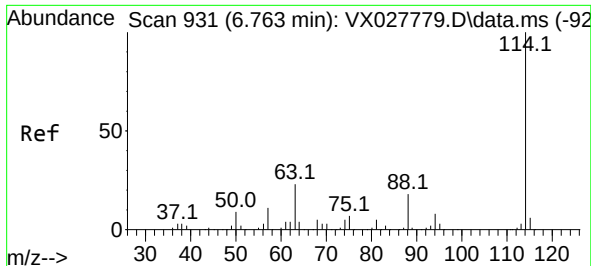


#33  
1,2-Dichloroethane-d4  
Concen: 65.912 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

Tgt Ion: 65 Resp: 65294  
Ion Ratio Lower Upper  
65 100  
67 49.3 0.0 107.4



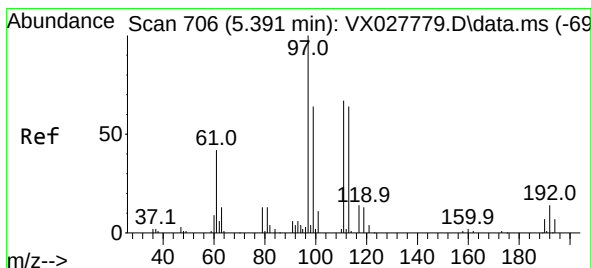
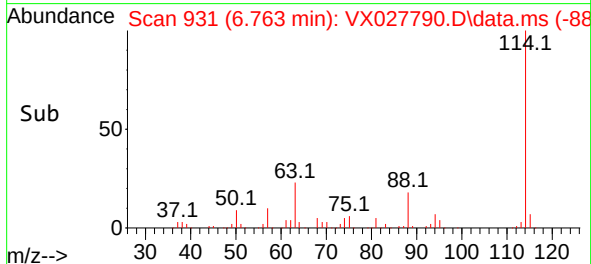
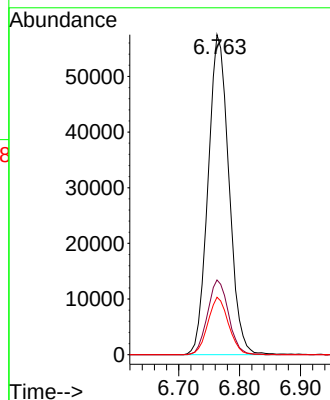
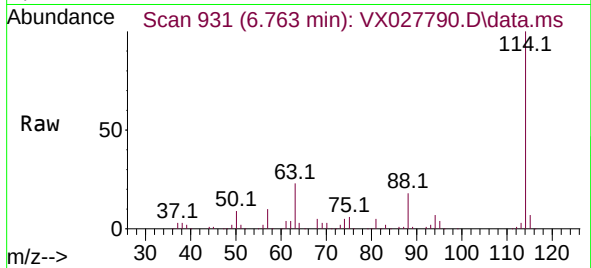




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

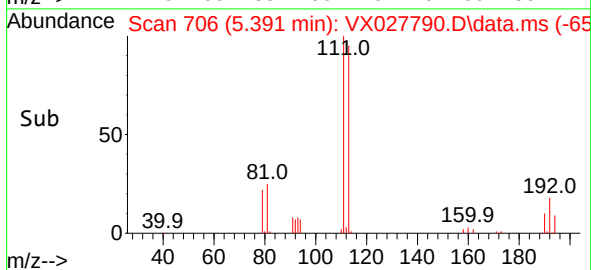
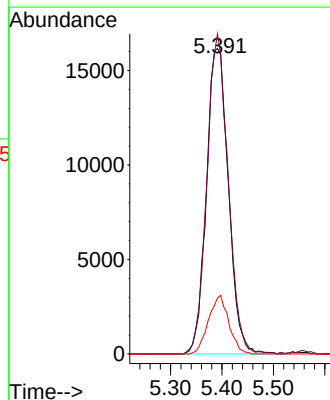
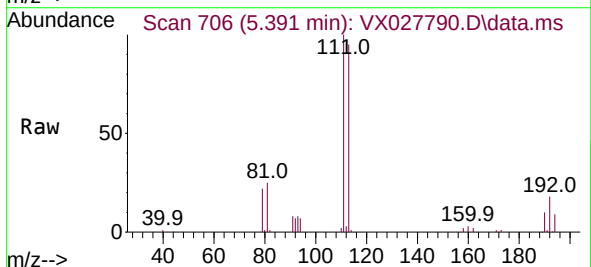
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE117D1-20220317

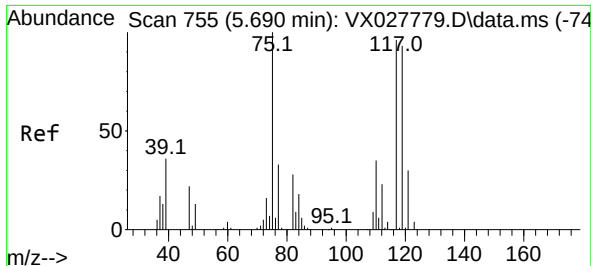
Tgt Ion:114 Resp: 136499  
Ion Ratio Lower Upper  
114 100  
63 23.4 0.0 36.8  
88 17.9 0.0 32.4



#35  
Dibromofluoromethane  
Concen: 54.562 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

Tgt Ion:113 Resp: 48073  
Ion Ratio Lower Upper  
113 100  
111 101.3 82.8 124.2  
192 17.7 16.9 25.3





#36

1,1-Dichloropropene

Concen: 6.674 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.140 min

Lab File: VX027790.D

Acq: 29 Mar 2022 21:52

Instrument :

MSVOA\_X

ClientSampleId :

RE117D1-20220317

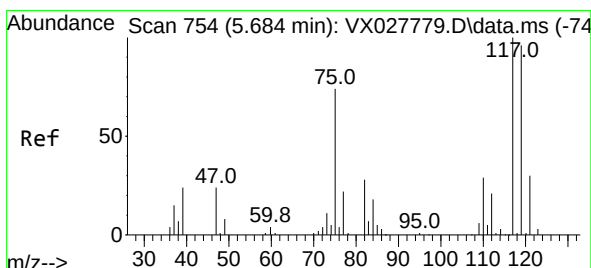
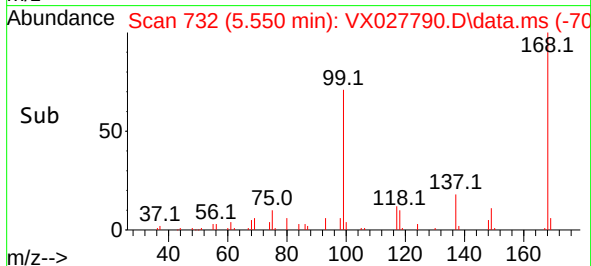
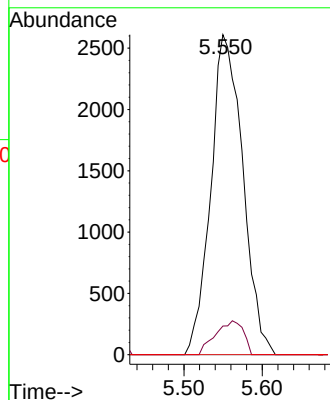
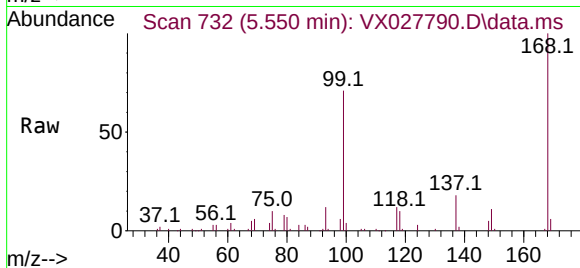
Tgt Ion: 75 Resp: 7406

Ion Ratio Lower Upper

75 100

110 9.3 18.3 54.8#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 1.090 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.006 min

Lab File: VX027790.D

Acq: 29 Mar 2022 21:52

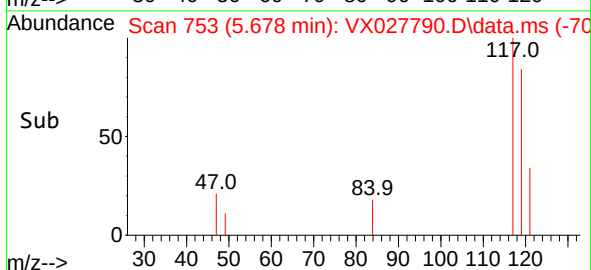
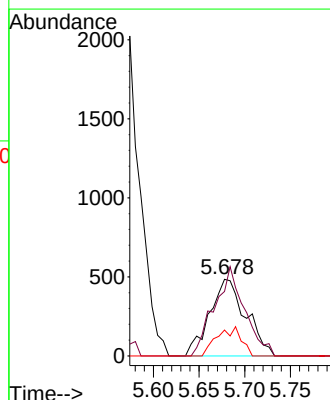
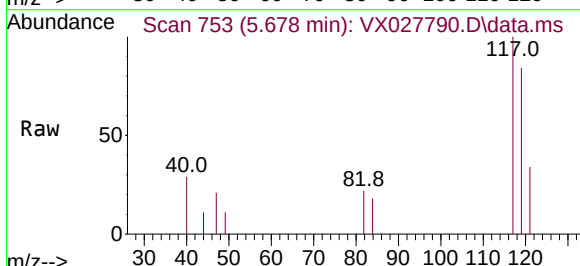
Tgt Ion: 117 Resp: 1336

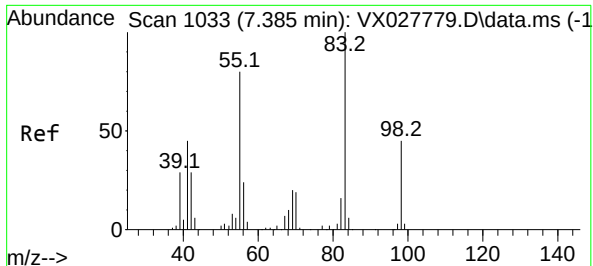
Ion Ratio Lower Upper

117 100

119 84.1 77.3 115.9

121 33.8 24.2 36.2





#39

Methylcyclohexane

Concen: 0.752 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.262 min

Lab File: VX027790.D

Acq: 29 Mar 2022 21:52

Instrument :

MSVOA\_X

ClientSampleId :

RE117D1-20220317

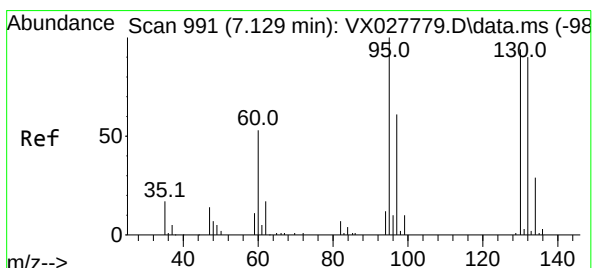
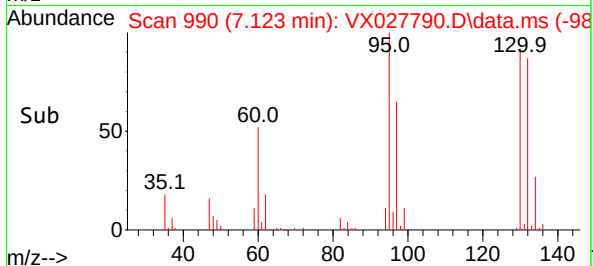
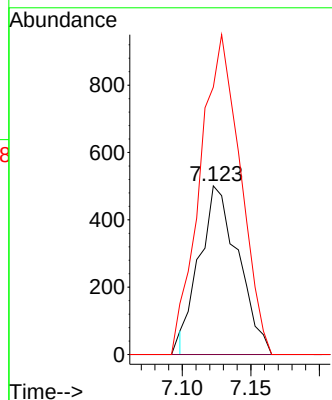
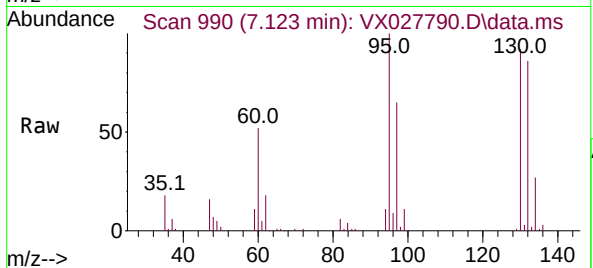
Tgt Ion: 83 Resp: 982

Ion Ratio Lower Upper

83 100

55 0.0 54.6 81.8#

98 158.5 37.4 56.2#



#44

Trichloroethene

Concen: 78.407 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX027790.D

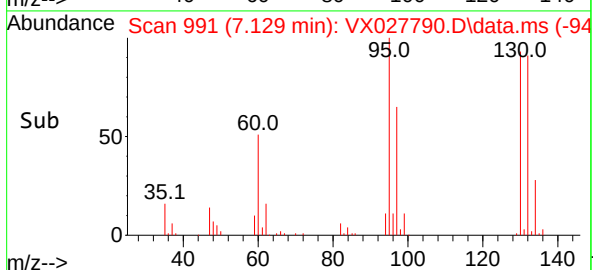
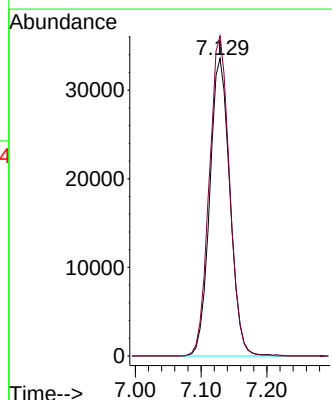
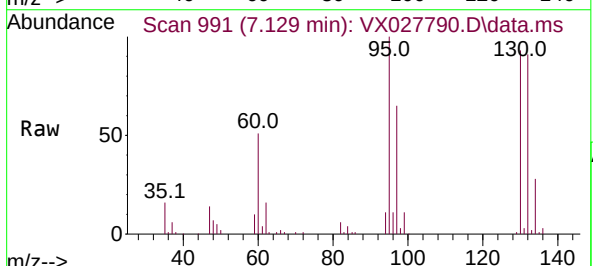
Acq: 29 Mar 2022 21:52

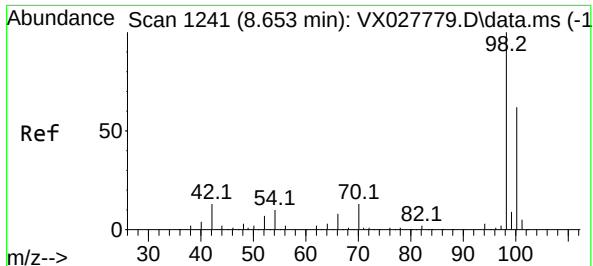
Tgt Ion:130 Resp: 71657

Ion Ratio Lower Upper

130 100

95 107.5 0.0 188.8

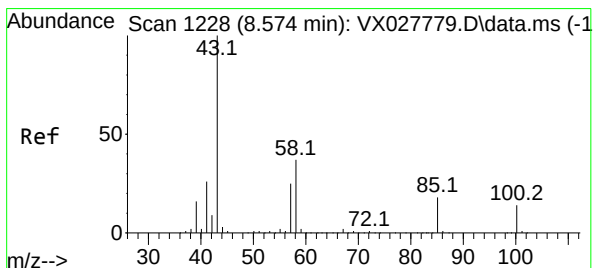
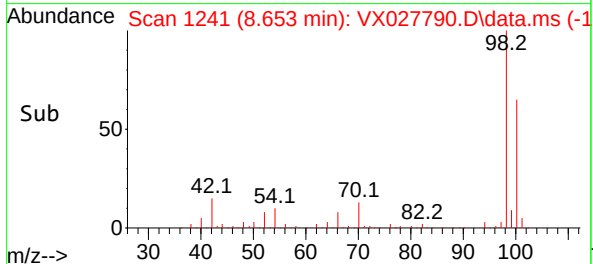
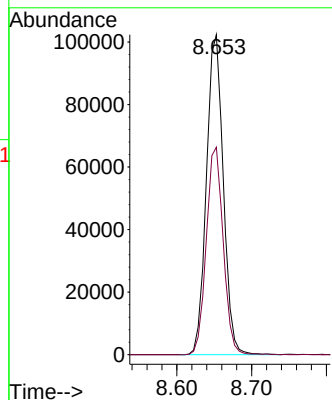
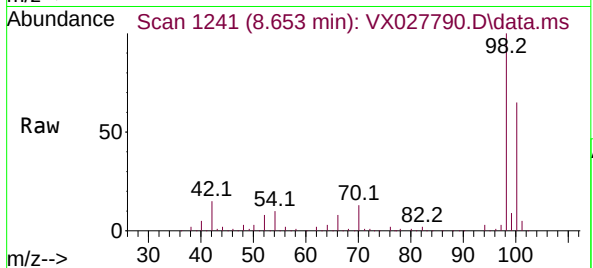




#50  
Toluene-d8  
Concen: 51.676 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

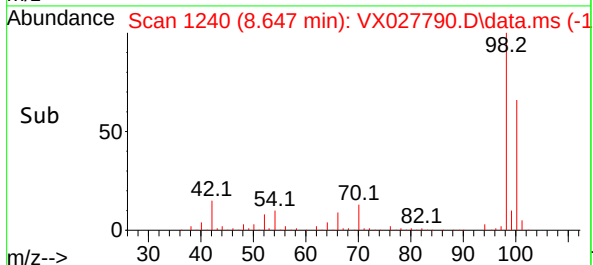
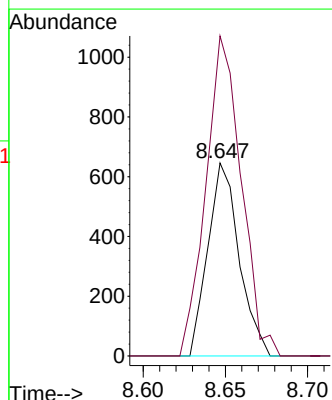
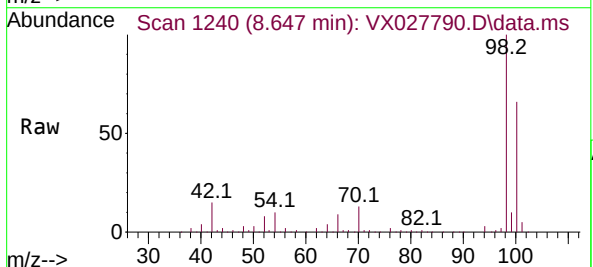
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE117D1-20220317

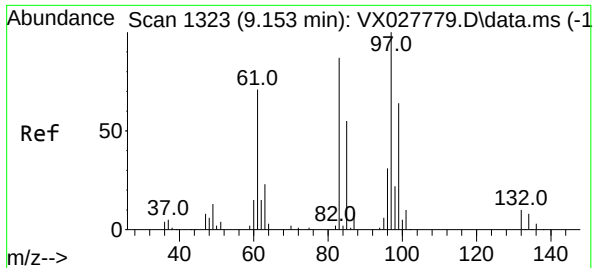
Tgt Ion: 98 Resp: 160195  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 0.558 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.073 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

Tgt Ion: 43 Resp: 853  
Ion Ratio Lower Upper  
43 100  
58 187.5 36.1 54.1#

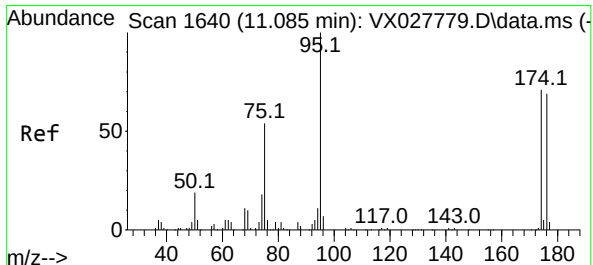
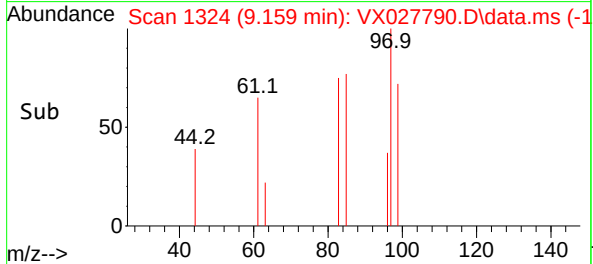
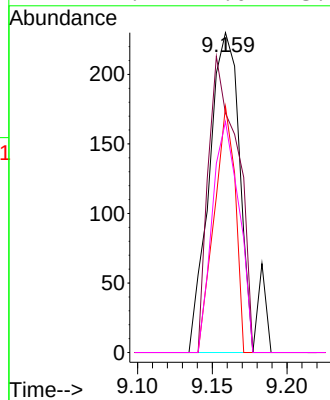
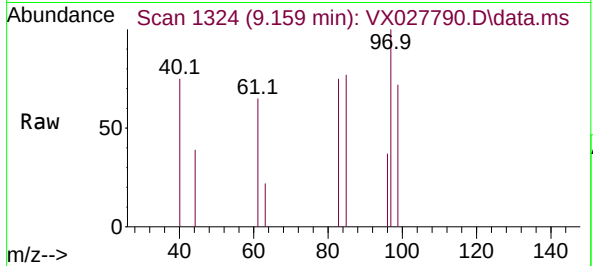




#55  
1,1,2-Trichloroethane  
Concen: 0.368 ug/l  
RT: 9.159 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

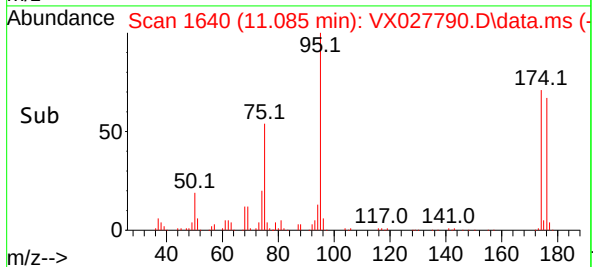
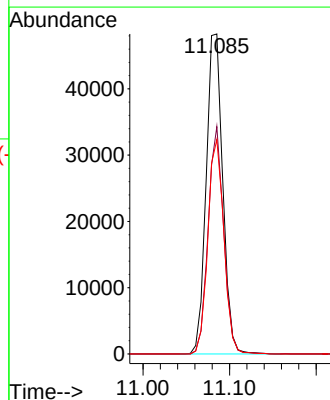
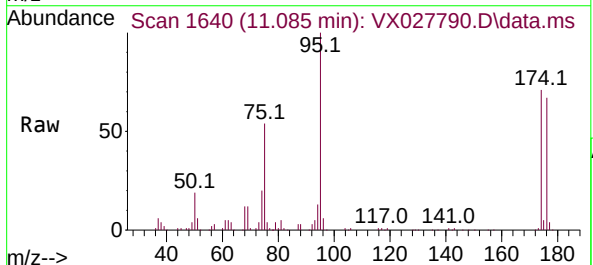
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE117D1-20220317

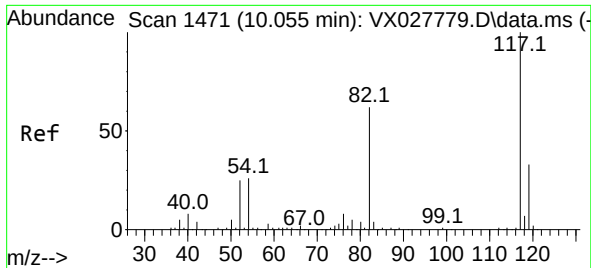
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 97 | Resp: | 346   |       |
| Ion         | Ratio | Lower | Upper |
| 97          | 100   |       |       |
| 83          | 74.8  | 66.2  | 99.4  |
| 85          | 77.0  | 42.9  | 64.3# |
| 99          | 72.2  | 49.0  | 73.6  |



#62  
4-Bromofluorobenzene  
Concen: 48.710 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

|             |             |
|-------------|-------------|
| Tgt Ion: 95 | Resp: 64170 |
| Ion Ratio   | Lower Upper |
| 95 100      |             |
| 174 66.5    | 0.0 163.0   |
| 176 64.7    | 0.0 155.0   |

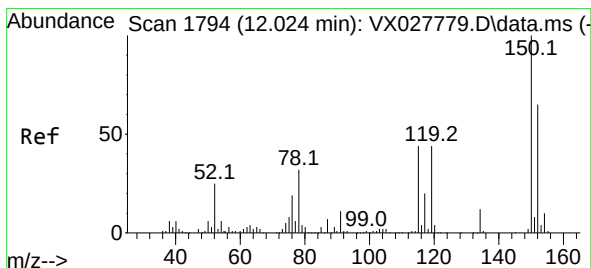
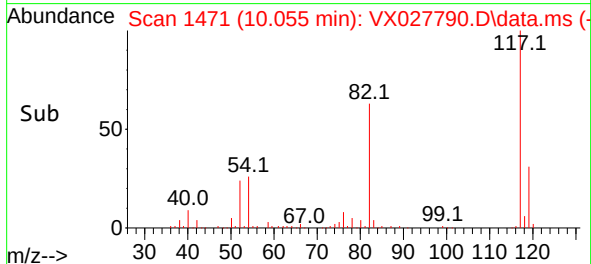
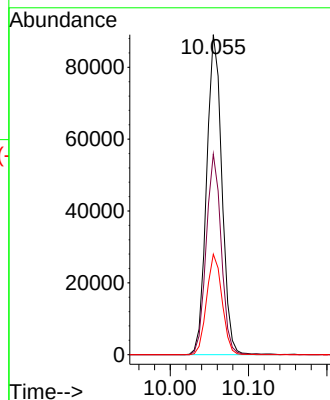
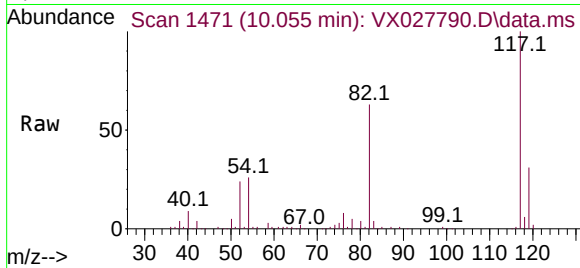




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

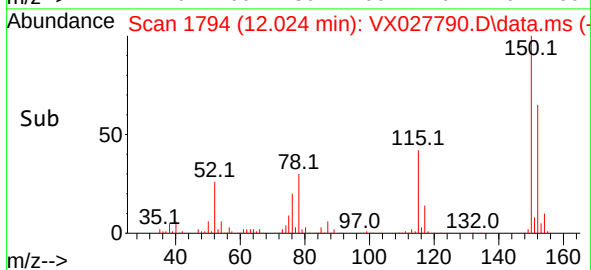
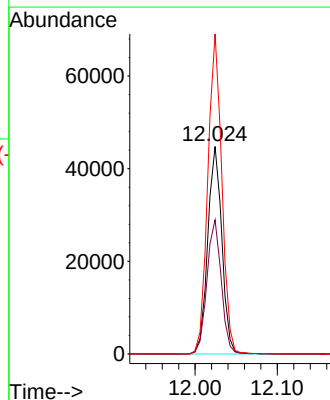
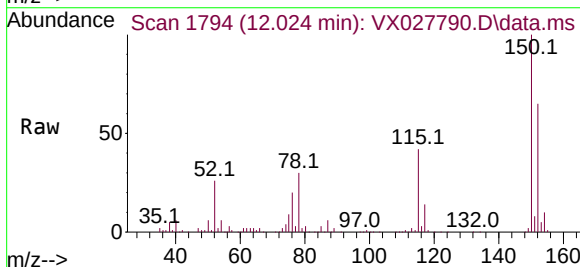
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE117D1-20220317

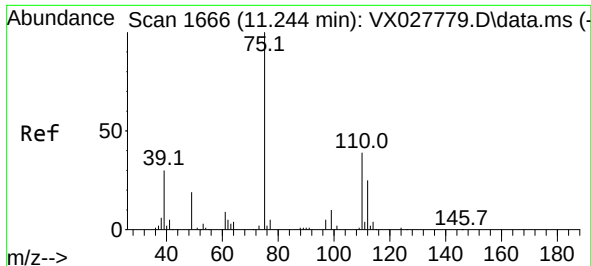
Tgt Ion:117 Resp: 120275  
Ion Ratio Lower Upper  
117 100  
82 62.7 41.8 62.8  
119 31.4 24.8 37.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

Tgt Ion:152 Resp: 53326  
Ion Ratio Lower Upper  
152 100  
115 65.7 37.5 112.7  
150 153.1 0.0 338.2

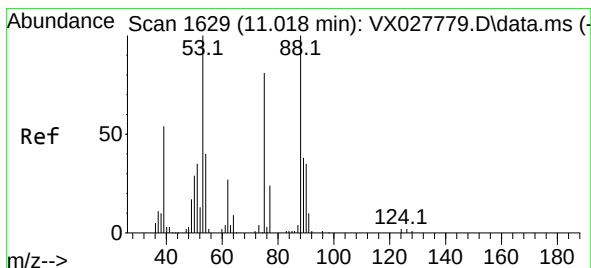
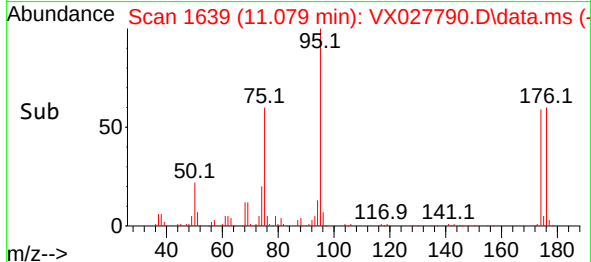
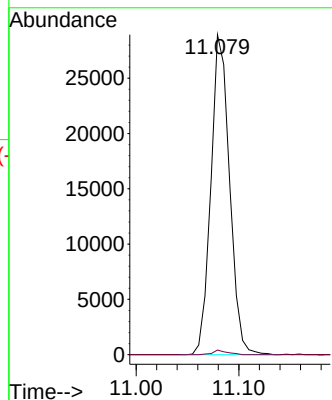
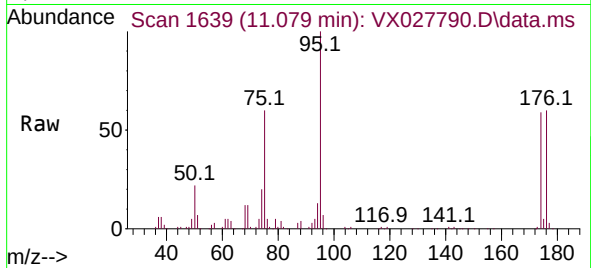




#76  
1,2,3-Trichloropropane  
Concen: 29.185 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE117D1-20220317

Tgt Ion: 75 Resp: 36509  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.4 58.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 85.105 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX027790.D  
Acq: 29 Mar 2022 21:52

Tgt Ion: 75 Resp: 36509  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.0 103.4#  
89 0.0 37.0 55.6#

