

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121621\  
 Data File : VX025811.D  
 Acq On : 15 Dec 2021 13:38  
 Operator : JC/MD  
 Sample : VX1216MBL01  
 Misc : 5.0g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 16 07:28:53 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

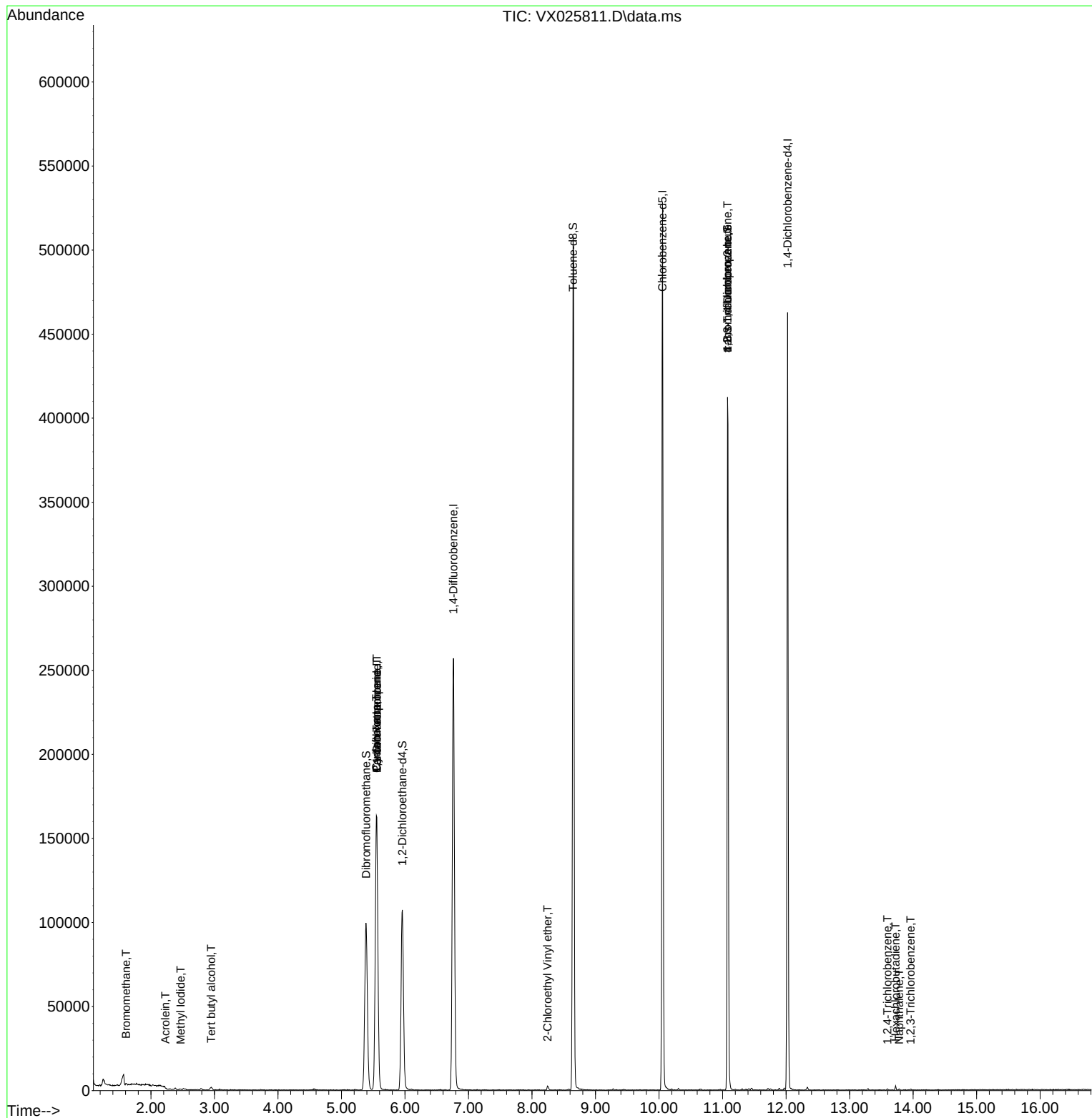
| Compound                      | R.T.   | QIon           | Response | Conc        | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|-------------|----------|----------|
| -----                         |        |                |          |             |          |          |
| Internal Standards            |        |                |          |             |          |          |
| 1) Pentafluorobenzene         | 5.556  | 168            | 155845   | 50.000      | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114            | 264697   | 50.000      | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117            | 231843   | 50.000      | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152            | 94251    | 50.000      | ug/l     | 0.00     |
| System Monitoring Compounds   |        |                |          |             |          |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65             | 102201   | 45.578      | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 78 - 117 | Recovery | =           | 91.160%  |          |
| 35) Dibromofluoromethane      | 5.385  | 113            | 86340    | 46.771      | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | =           | 93.540%  |          |
| 50) Toluene-d8                | 8.647  | 98             | 306812   | 45.616      | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 92 - 112 | Recovery | =           | 91.240%# |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95             | 111450   | 43.621      | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | =           | 87.240%  |          |
| Target Compounds              |        |                |          |             |          |          |
|                               |        |                |          |             | Qvalue   |          |
| 5) Bromomethane               | 1.605  | 94             | 388      | 0.281       | ug/l     | 83       |
| 10) Methyl Iodide             | 2.465  | 142            | 463      | 0.219       | ug/l #   | 85       |
| 11) Tert butyl alcohol        | 2.946  | 59             | 1123     | 2.497       | ug/l #   | 73       |
| 13) Acrolein                  | 2.227  | 56             | 132      | 0.429       | ug/l #   | 82       |
| 16) Acetone                   | 2.380  | 43             | 956      | Below Cal   |          | 99       |
| 20) Methylene Chloride        | 2.788  | 84             | 401      | Below Cal # |          | 73       |
| 31) Cyclohexane               | 5.550  | 56             | 3364     | 1.234       | ug/l #   | 2        |
| 36) 1,1-Dichloropropene       | 5.556  | 75             | 12001    | 4.794       | ug/l #   | 50       |
| 38) Carbon Tetrachloride      | 5.556  | 117            | 16581    | 5.693       | ug/l #   | 15       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63             | 1128     | 16.375      | ug/l     | 92       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75             | 57754    | 26.745      | ug/l #   | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75             | 57754    | 82.916      | ug/l #   | 10       |
| 93) 1,2,4-Trichlorobenzene    | 13.597 | 180            | 285      | 3.512       | ug/l #   | 81       |
| 94) Hexachlorobutadiene       | 13.725 | 225            | 434      | 0.654       | ug/l     | 84       |
| 95) Naphthalene               | 13.780 | 128            | 567      | 2.495       | ug/l #   | 69       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180            | 229      | 3.109       | ug/l #   | 82       |
| -----                         |        |                |          |             |          |          |

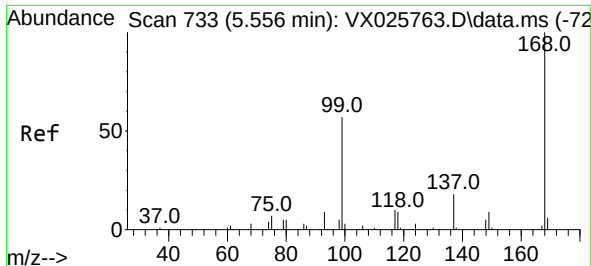
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121621\  
Data File : VX025811.D  
Acq On : 15 Dec 2021 13:38  
Operator : JC/MD  
Sample : VX1216MBL01  
Misc : 5.0g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

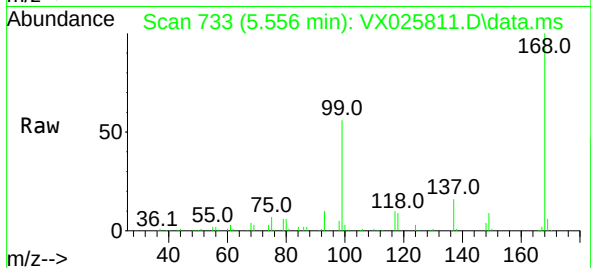
Quant Time: Dec 16 07:28:53 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 14 07:02:11 2021  
Response via : Initial Calibration



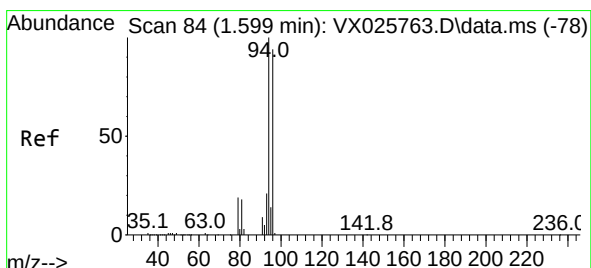
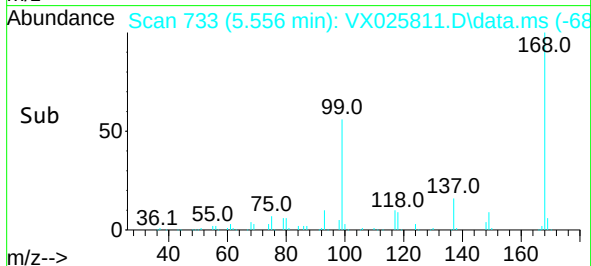
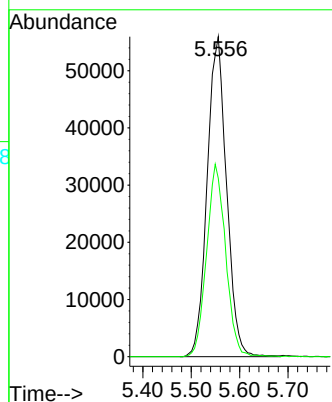


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38

Instrument :  
MSVOA\_X  
ClientSampleId :

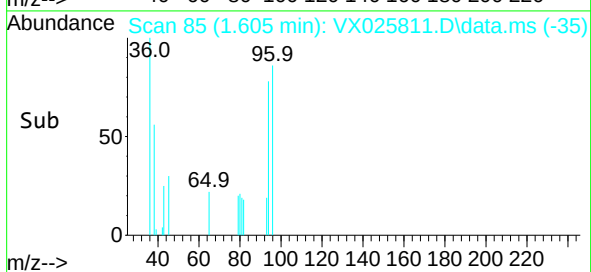
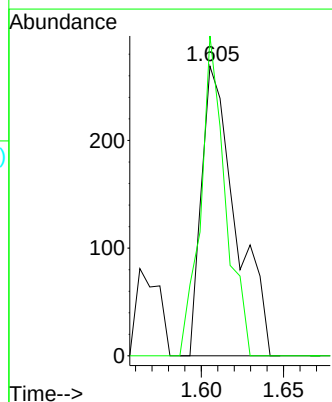
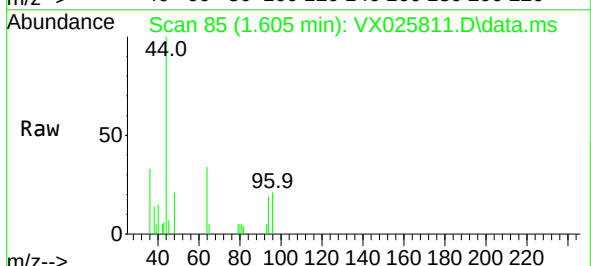


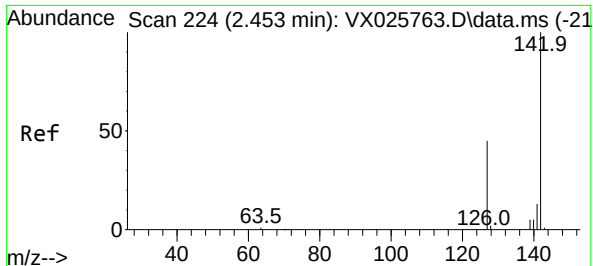
Tgt Ion:168 Resp: 155845  
Ion Ratio Lower Upper  
168 100  
99 55.7 45.8 68.8



#5  
Bromomethane  
Concen: 0.281 ug/l  
RT: 1.605 min Scan# 85  
Delta R.T. 0.006 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38

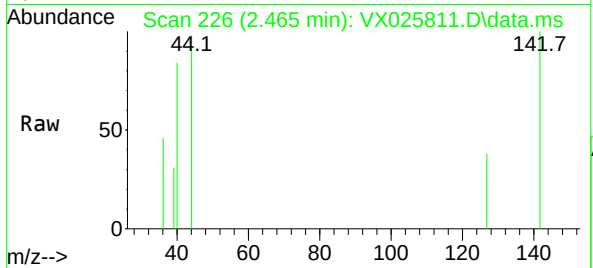
Tgt Ion: 94 Resp: 388  
Ion Ratio Lower Upper  
94 100  
96 110.4 75.0 112.4



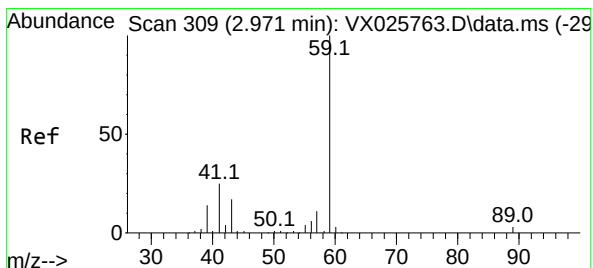
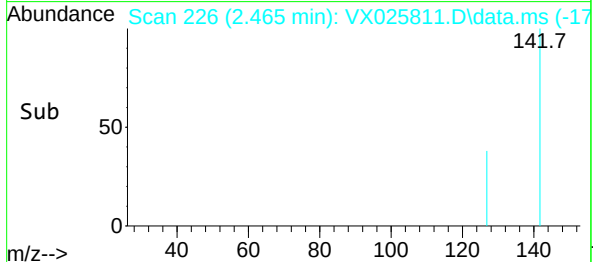
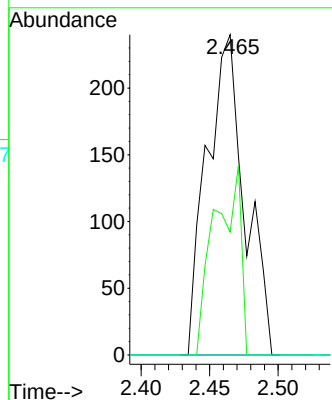


#10  
Methyl Iodide  
Concen: 0.219 ug/l  
RT: 2.465 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38

Instrument :  
MSVOA\_X  
ClientSampleId :

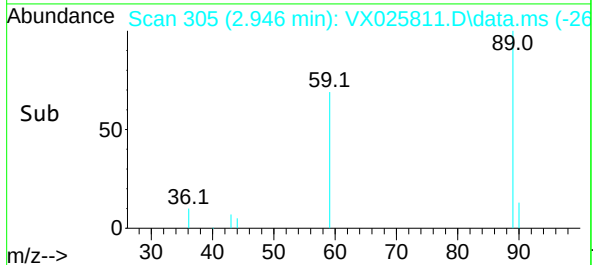
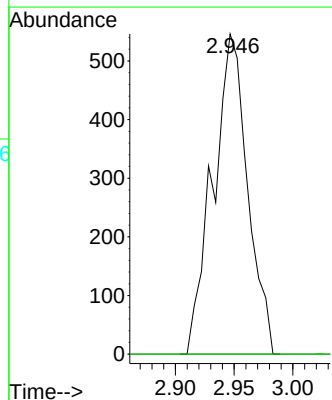
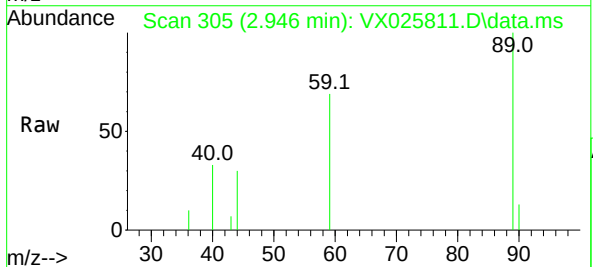


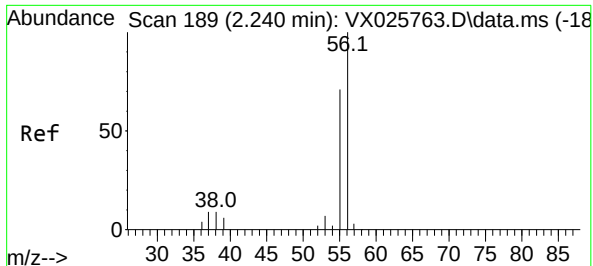
Tgt Ion:142 Resp: 463  
Ion Ratio Lower Upper  
142 100  
127 40.8 37.5 56.3  
141 0.0 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 2.497 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. -0.025 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38

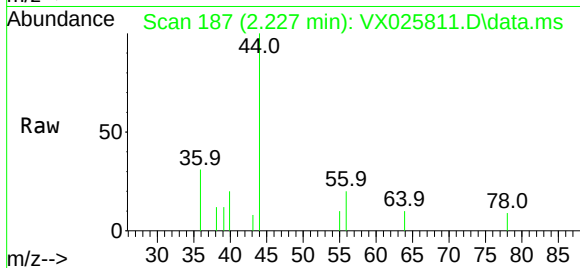
Tgt Ion: 59 Resp: 1123  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#



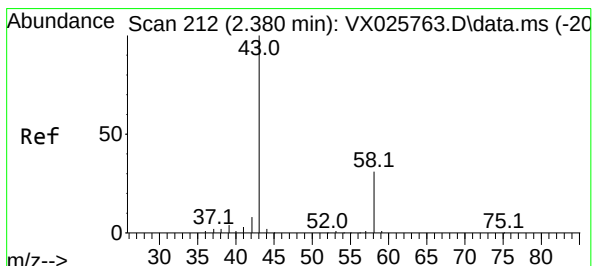
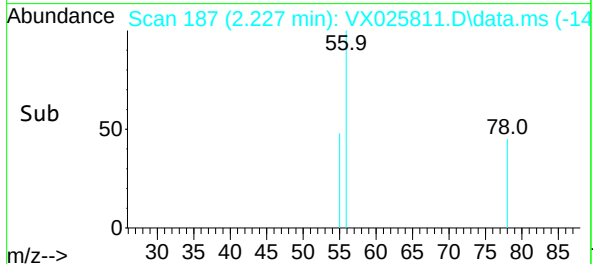
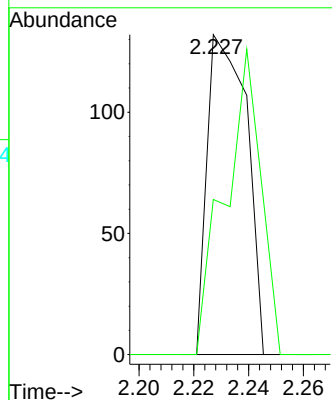


#13  
Acrolein  
Concen: 0.429 ug/l  
RT: 2.227 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38

Instrument :  
MSVOA\_X  
ClientSampleId :

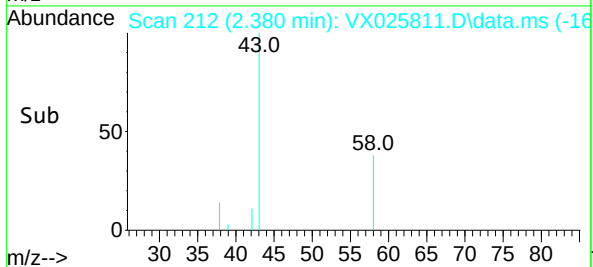
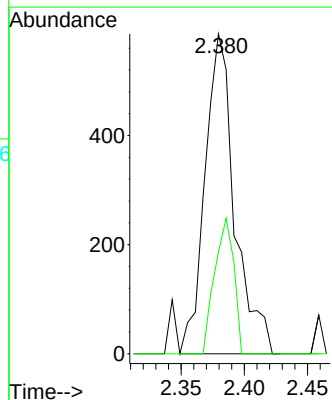
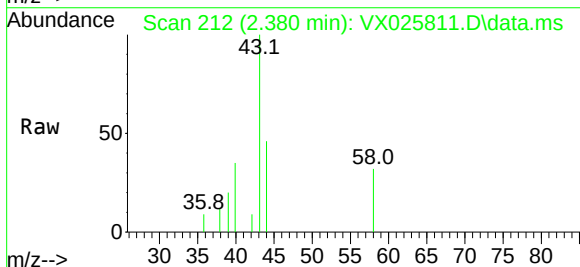


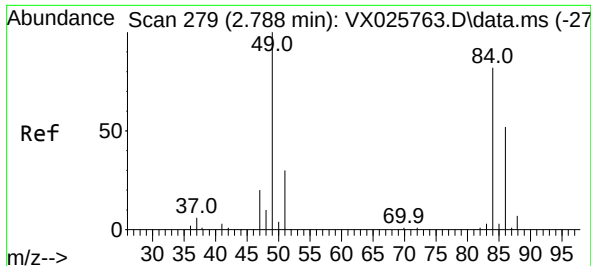
Tgt Ion: 56 Resp: 132  
Ion Ratio Lower Upper  
56 100  
55 87.1 57.4 86.2#



#16  
Acetone  
Concen: Below Cal  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38

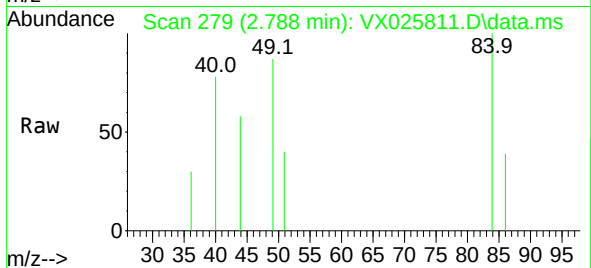
Tgt Ion: 43 Resp: 956  
Ion Ratio Lower Upper  
43 100  
58 31.7 24.8 37.2



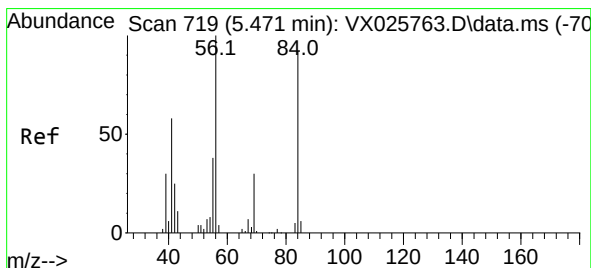
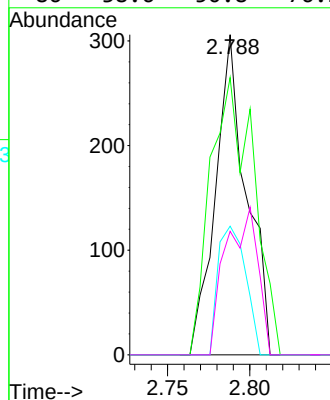


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38

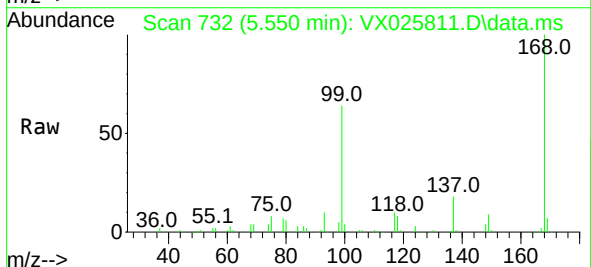
Instrument :  
MSVOA\_X  
ClientSampleId :



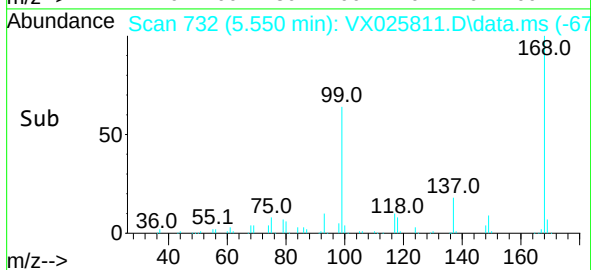
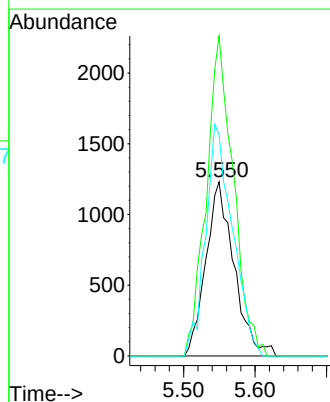
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 401   |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 86.6     | 97.1 145.7# |
| 51 40.2     | 29.3 43.9   |
| 86 38.6     | 50.8 76.2#  |

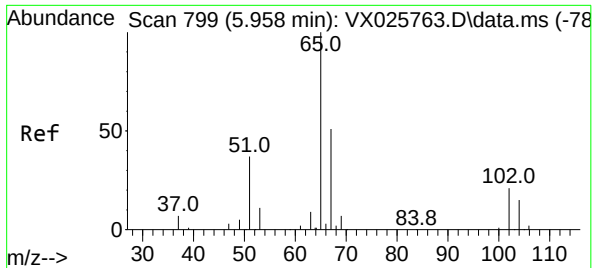


#31  
Cyclohexane  
Concen: 1.234 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. 0.079 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38



|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 3364  |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 183.8    | 23.9 35.9#  |
| 84 127.2    | 73.2 109.8# |

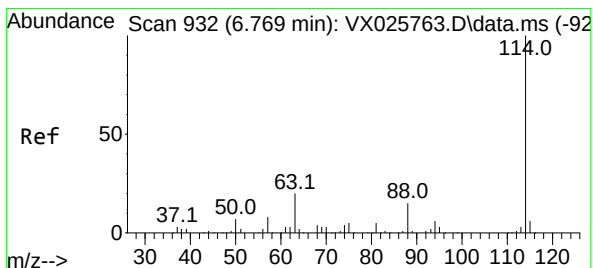
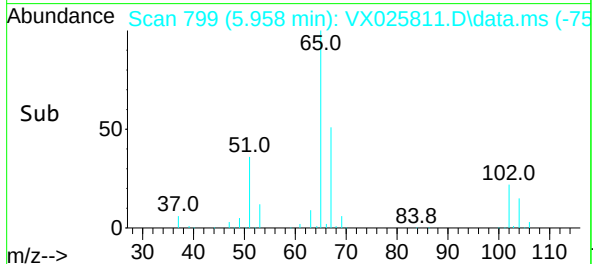
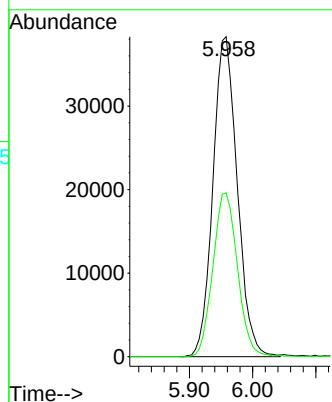
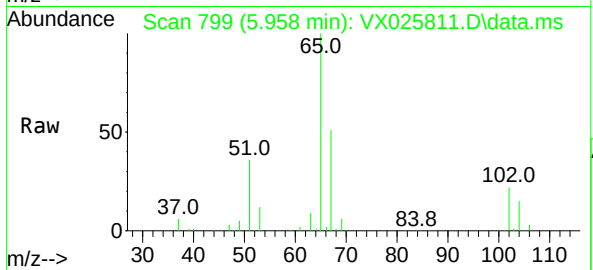




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.578 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. -0.000 min  
 Lab File: VX025811.D  
 Acq: 15 Dec 2021 13:38

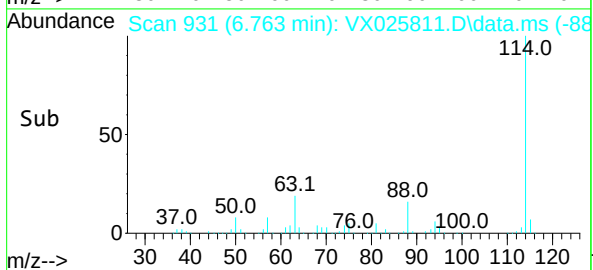
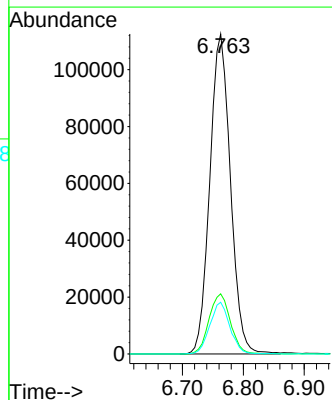
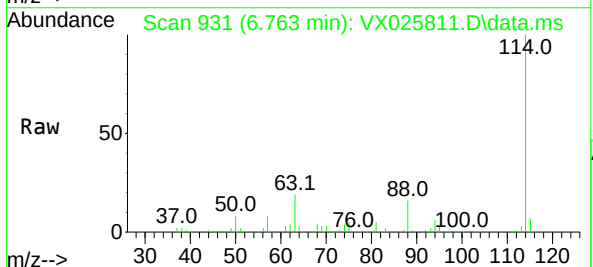
Instrument :  
 MSVOA\_X  
 ClientSampleId :

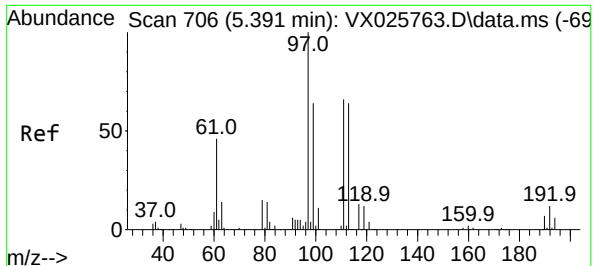
Tgt Ion: 65 Resp: 102201  
 Ion Ratio Lower Upper  
 65 100  
 67 51.8 0.0 103.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. -0.006 min  
 Lab File: VX025811.D  
 Acq: 15 Dec 2021 13:38

Tgt Ion: 114 Resp: 264697  
 Ion Ratio Lower Upper  
 114 100  
 63 18.8 0.0 40.0  
 88 16.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 46.771 ug/l

RT: 5.385 min Scan# 706

Delta R.T. -0.006 min

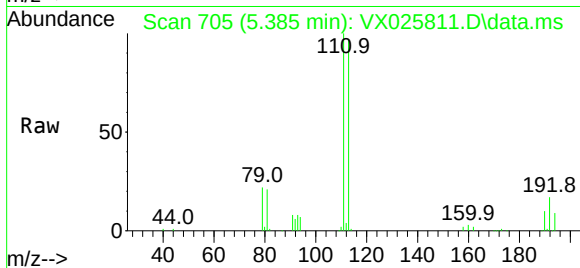
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Acq: 15 Dec 2021 13:38

Instrument :

MSVOA\_X

ClientSampleId :



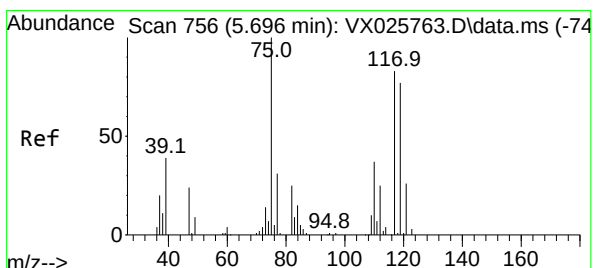
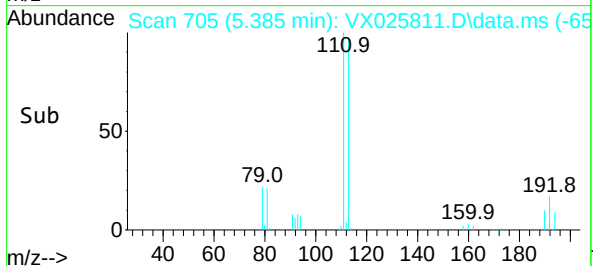
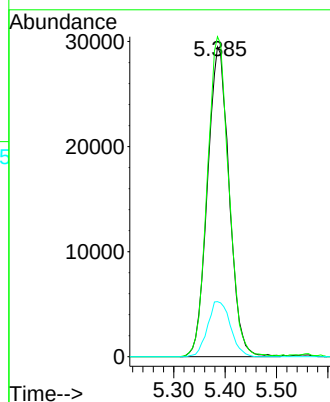
Tgt Ion:113 Resp: 86340

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.8

192 18.7 15.0 22.4



#36

1,1-Dichloropropene

Concen: 4.794 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX025811.D

Acq: 15 Dec 2021 13:38

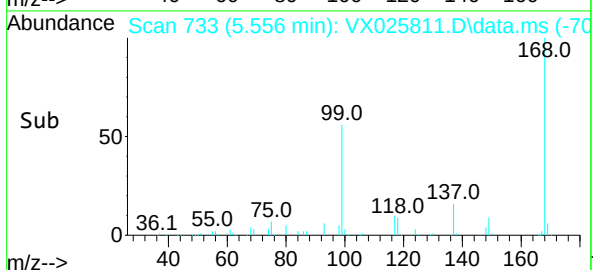
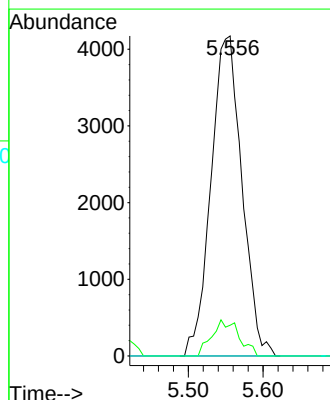
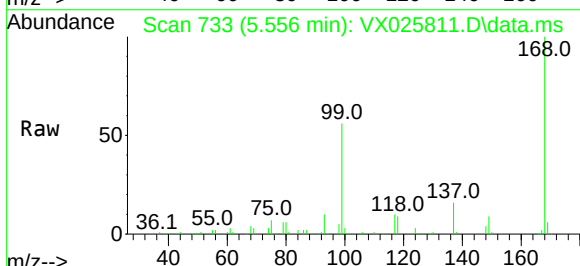
Tgt Ion: 75 Resp: 12001

Ion Ratio Lower Upper

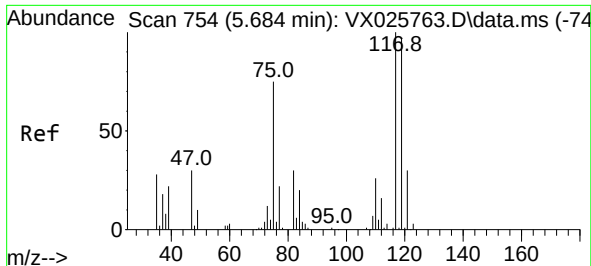
75 100

110 9.9 18.2 54.6#

77 0.0 24.7 37.1#

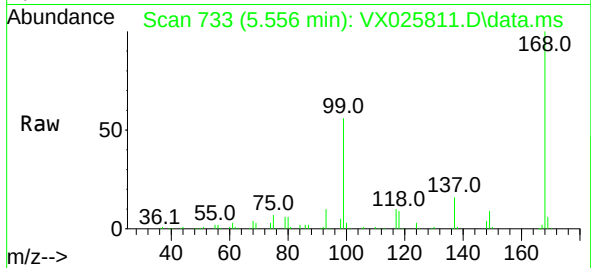




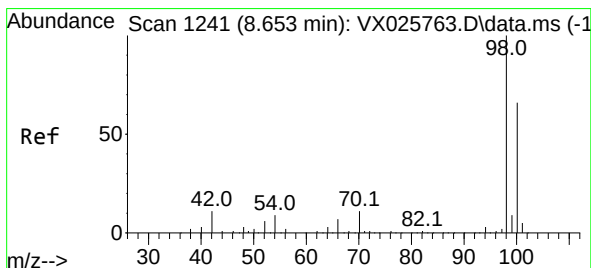
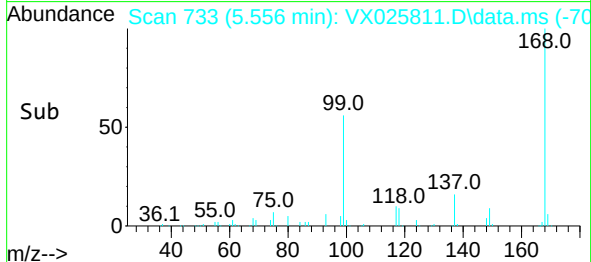
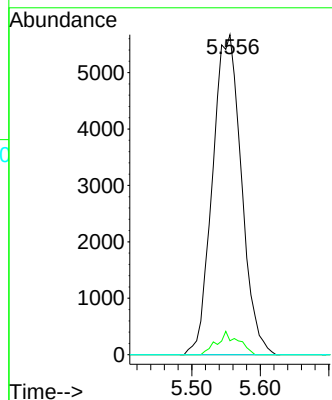


#38  
Carbon Tetrachloride  
Concen: 5.693 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38

Instrument :  
MSVOA\_X  
ClientSampleId :

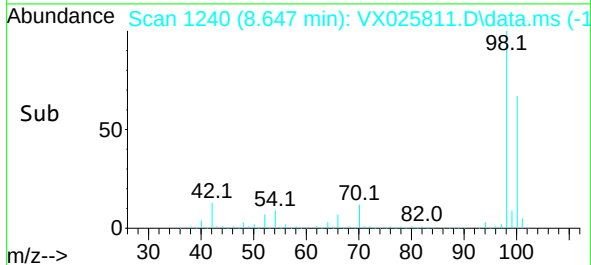
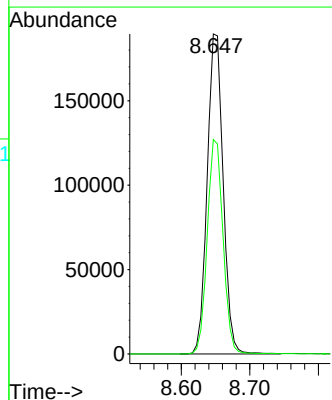
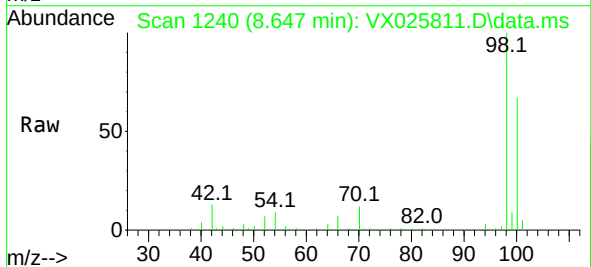


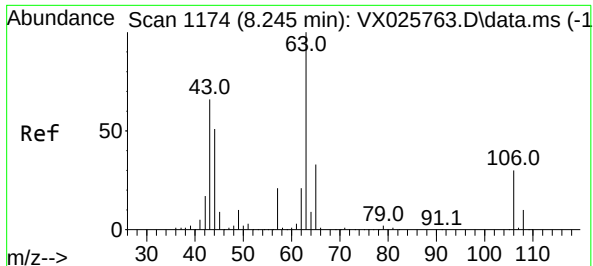
Tgt Ion:117 Resp: 16581  
Ion Ratio Lower Upper  
117 100  
119 4.4 77.2 115.8#  
121 0.0 23.8 35.8#



#50  
Toluene-d8  
Concen: 45.616 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38

Tgt Ion: 98 Resp: 306812  
Ion Ratio Lower Upper  
98 100  
100 66.3 52.6 78.8

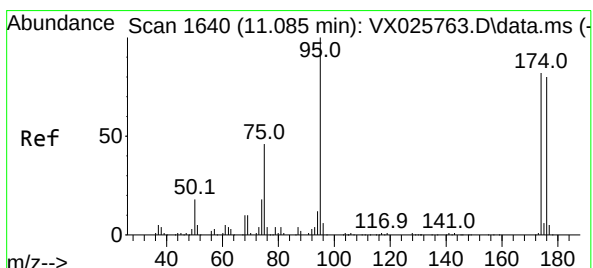
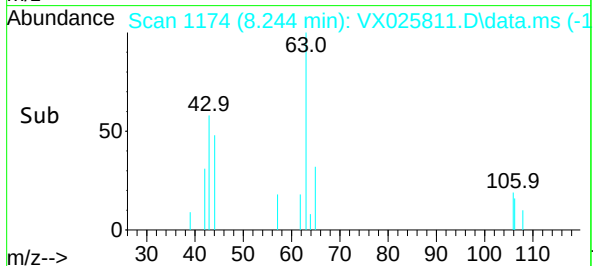
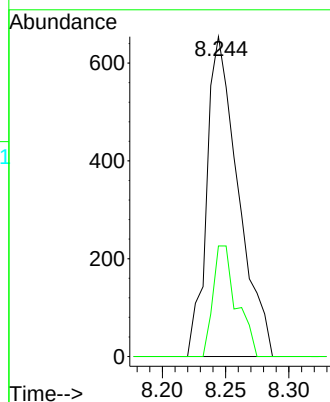
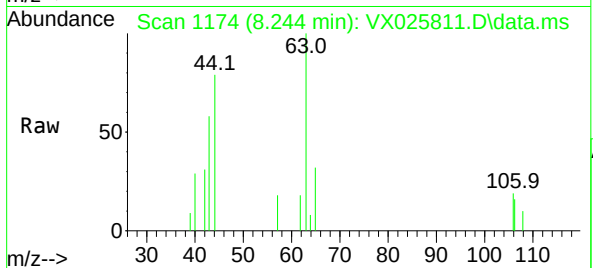




#58  
2-Chloroethyl Vinyl ether  
Concen: 16.375 ug/l  
RT: 8.244 min Scan# 1174  
Delta R.T. -0.001 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38

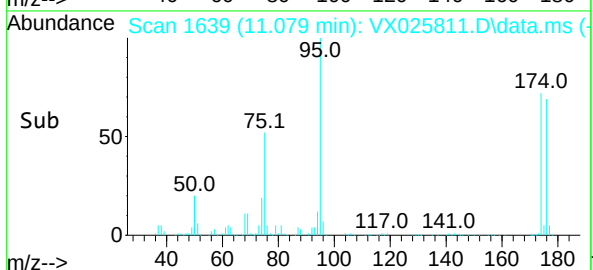
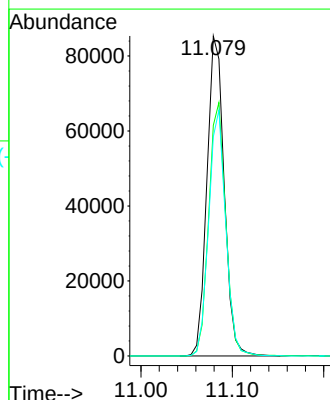
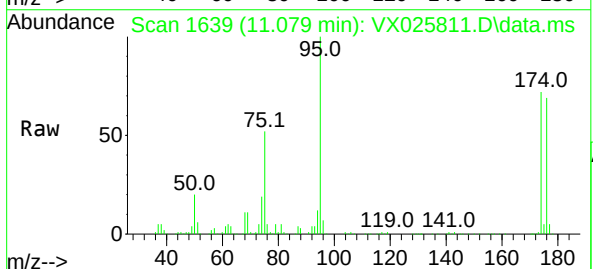
Instrument :  
MSVOA\_X  
ClientSampleId :

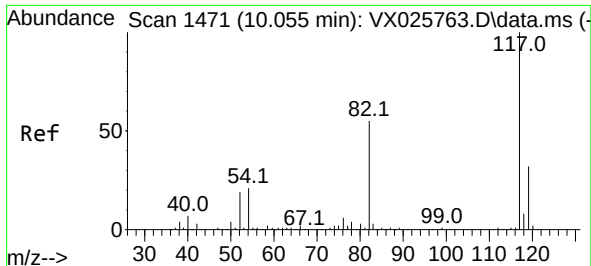
Tgt Ion: 63 Resp: 1128  
Ion Ratio Lower Upper  
63 100  
106 26.0 24.4 36.6



#62  
4-Bromofluorobenzene  
Concen: 43.621 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.006 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38

Tgt Ion: 95 Resp: 111450  
Ion Ratio Lower Upper  
95 100  
174 78.2 0.0 157.4  
176 75.9 0.0 154.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX025811.D

Acq: 15 Dec 2021 13:38

Instrument :

MSVOA\_X

ClientSampleId :

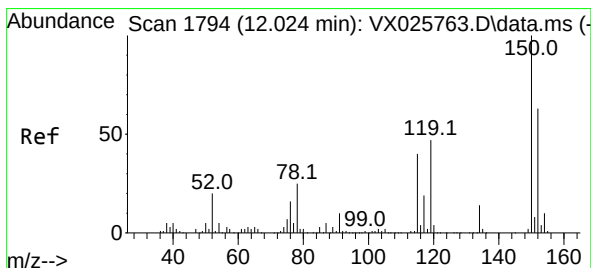
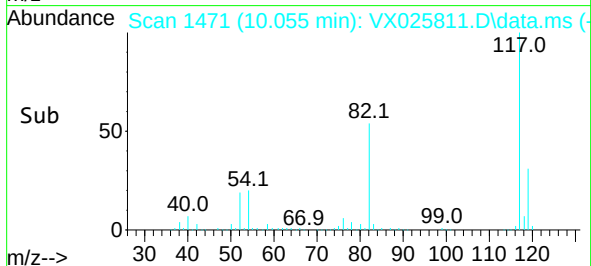
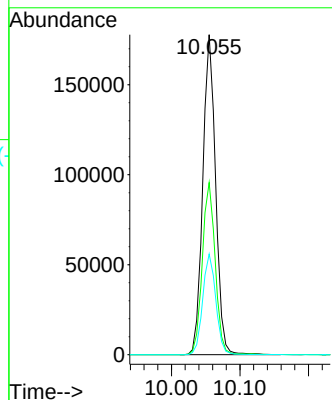
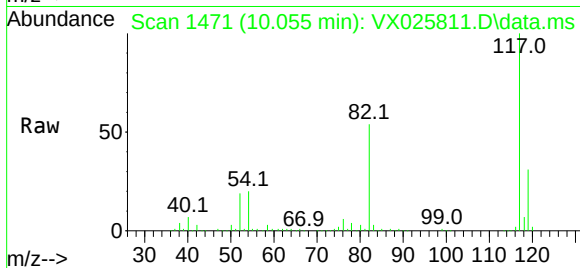
Tgt Ion:117 Resp: 231843

Ion Ratio Lower Upper

117 100

82 53.8 43.8 65.6

119 31.4 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX025811.D

Acq: 15 Dec 2021 13:38

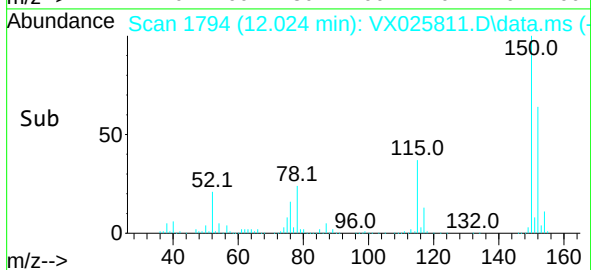
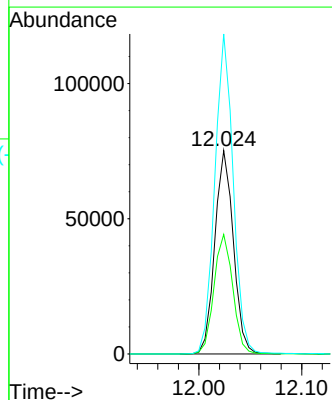
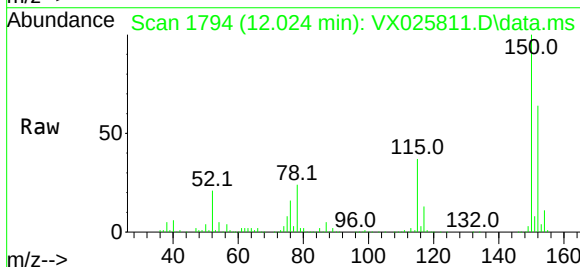
Tgt Ion:152 Resp: 94251

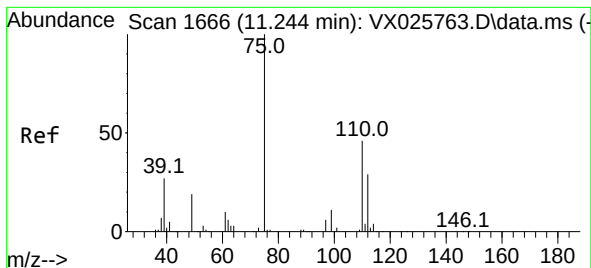
Ion Ratio Lower Upper

152 100

115 59.7 41.3 123.9

150 155.9 0.0 351.8





#76

1,2,3-Trichloropropane

Concen: 26.745 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.165 min

Lab File: VX025811.D

Acq: 15 Dec 2021 13:38

Instrument :

MSVOA\_X

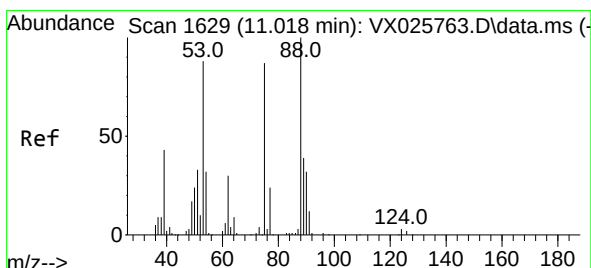
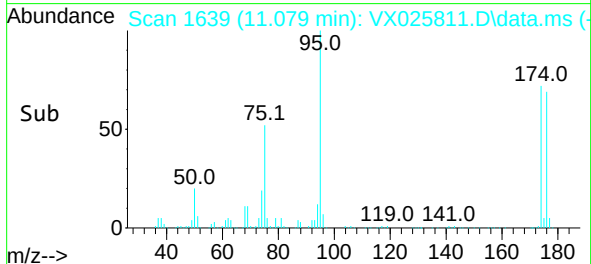
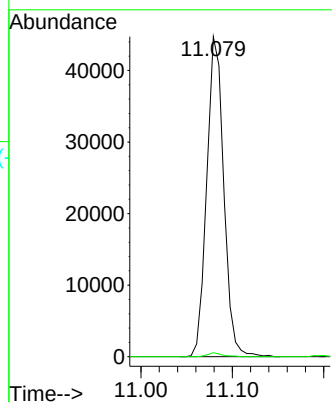
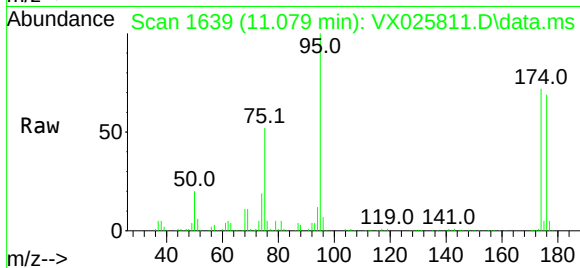
ClientSampleId :

Tgt Ion: 75 Resp: 57754

Ion Ratio Lower Upper

75 100

77 1.1 19.0 57.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.916 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX025811.D

Acq: 15 Dec 2021 13:38

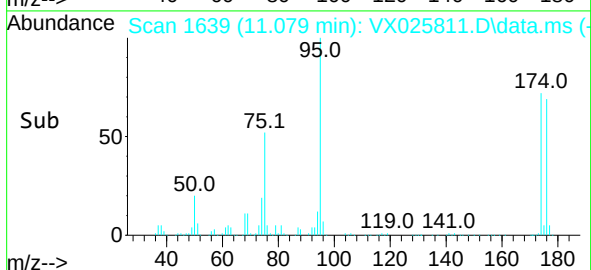
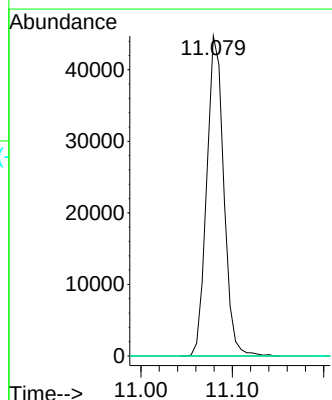
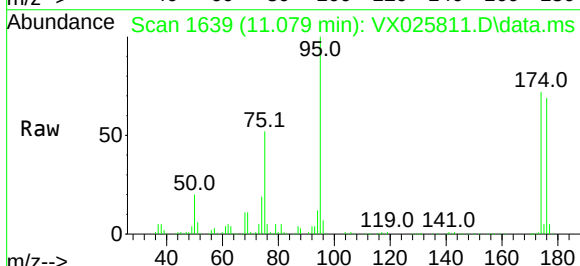
Tgt Ion: 75 Resp: 57754

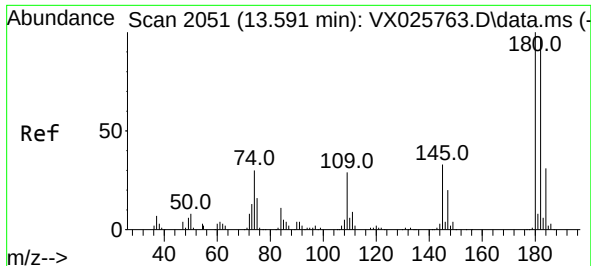
Ion Ratio Lower Upper

75 100

53 0.0 79.5 119.3#

89 0.0 38.3 57.5#





#93

1,2,4-Trichlorobenzene

Concen: 3.512 ug/l

RT: 13.597 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX025811.D

Acq: 15 Dec 2021 13:38

Instrument :

MSVOA\_X

ClientSampleId :

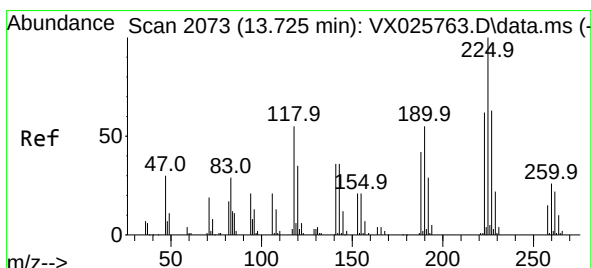
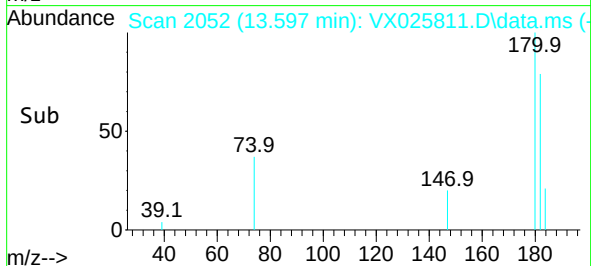
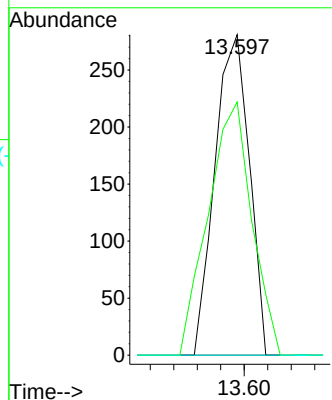
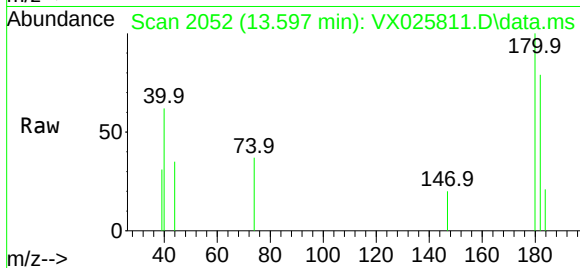
Tgt Ion:180 Resp: 285

Ion Ratio Lower Upper

180 100

182 100.4 47.2 141.6

145 0.0 16.3 48.9#



#94

Hexachlorobutadiene

Concen: 0.654 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX025811.D

Acq: 15 Dec 2021 13:38

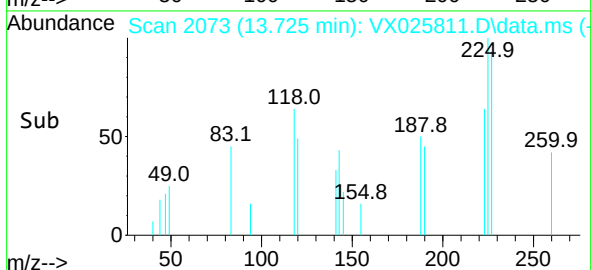
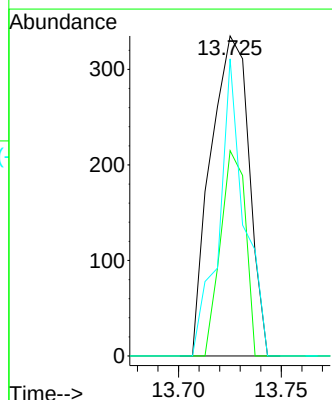
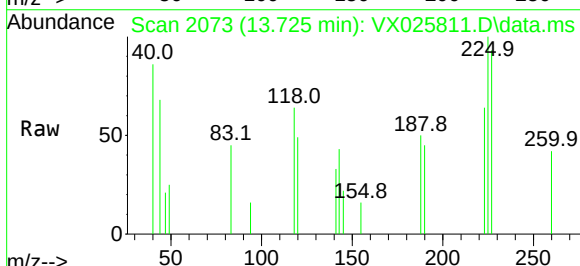
Tgt Ion:225 Resp: 434

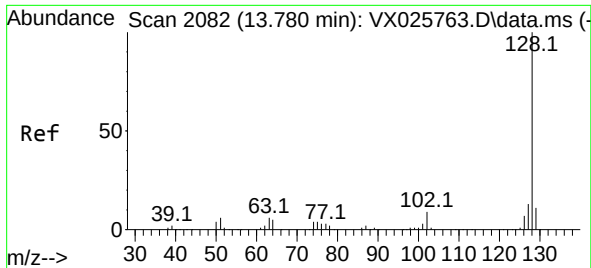
Ion Ratio Lower Upper

225 100

223 41.7 31.6 95.0

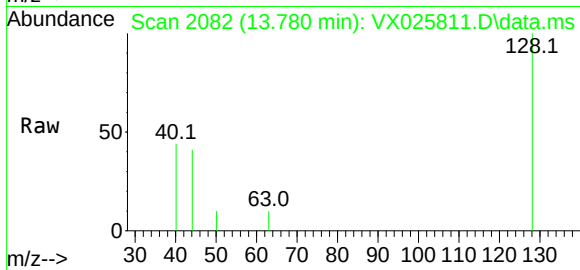
227 61.5 32.5 97.5



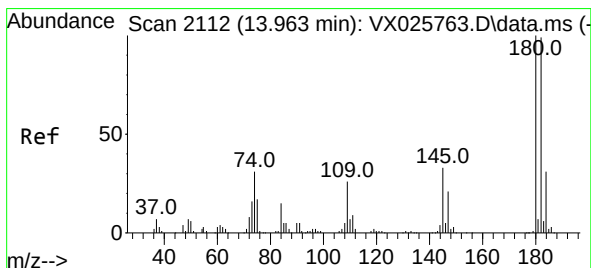
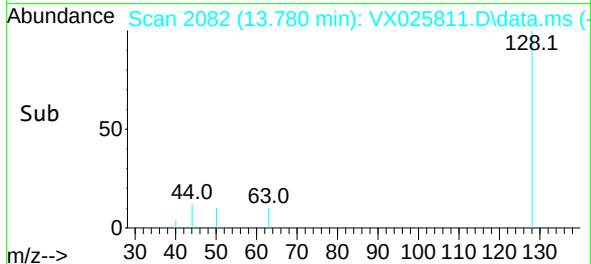
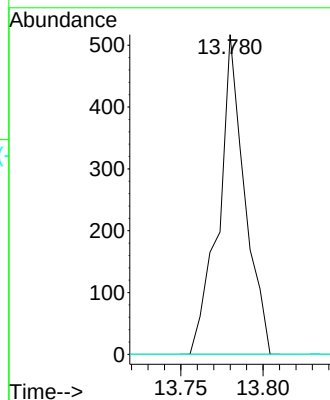


#95  
Naphthalene  
Concen: 2.495 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. -0.000 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion:128 Resp: 567  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#



#96  
1,2,3-Trichlorobenzene  
Concen: 3.109 ug/l  
RT: 13.963 min Scan# 2112  
Delta R.T. -0.000 min  
Lab File: VX025811.D  
Acq: 15 Dec 2021 13:38

Tgt Ion:180 Resp: 229  
Ion Ratio Lower Upper  
180 100  
182 83.8 47.5 142.6  
145 13.1 16.7 50.1#

