

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121421\  
 Data File : VX025775.D  
 Acq On : 14 Dec 2021 14:35  
 Operator : JC/MD  
 Sample : M5031-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 15 07:03:42 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

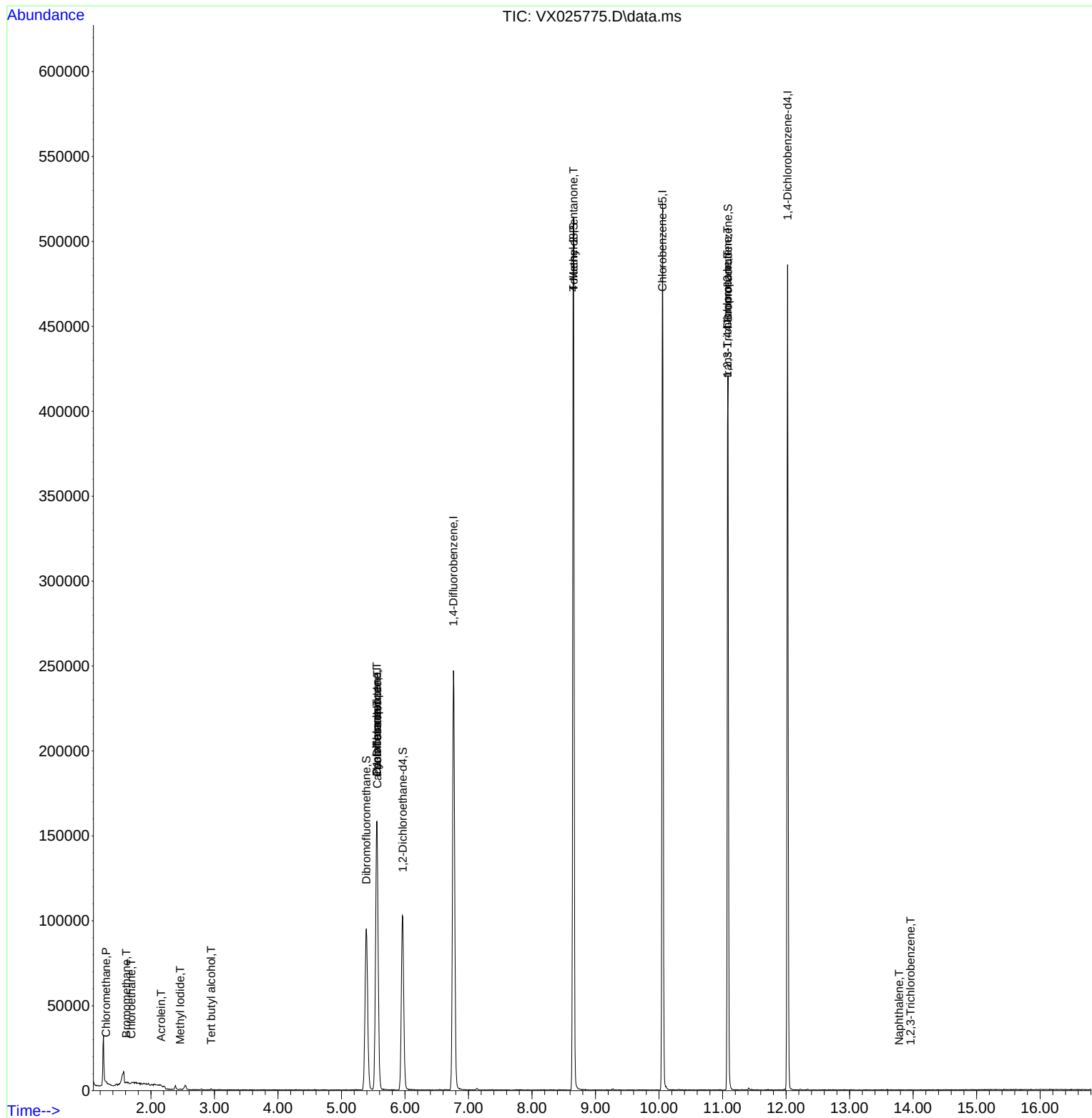
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 146984   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 255828   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 232229   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 96392    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 97153    | 45.939    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 91.880%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 82070    | 45.999    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 92.000%  |
| 50) Toluene-d8                | 8.653  | 98    | 299087   | 46.009    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 92.020%  |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 113953   | 46.147    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 92.300%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 1.294  | 50    | 486      | 0.284     | ug/l # | 83       |
| 5) Bromomethane               | 1.611  | 94    | 272      | 0.209     | ug/l # | 49       |
| 6) Chloroethane               | 1.691  | 64    | 822      | 0.623     | ug/l # | 42       |
| 10) Methyl Iodide             | 2.459  | 142   | 521      | 0.261     | ug/l # | 87       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 262      | 0.618     | ug/l # | 73       |
| 13) Acrolein                  | 2.160  | 56    | 78       | 0.269     | ug/l # | 57       |
| 16) Acetone                   | 2.386  | 43    | 2159     | Below Cal | #      | 88       |
| 20) Methylene Chloride        | 2.800  | 84    | 250      | Below Cal | #      | 48       |
| 31) Cyclohexane               | 5.556  | 56    | 3154     | 1.226     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 11385    | 4.705     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 15178    | 5.392     | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 8.653  | 43    | 1322     | 0.466     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 56685    | 25.667    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 56685    | 79.573    | ug/l # | 10       |
| 95) Naphthalene               | 13.780 | 128   | 299      | 2.455     | ug/l # | 69       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180   | 72       | 3.029     | ug/l # | 33       |
| -----                         |        |       |          |           |        |          |

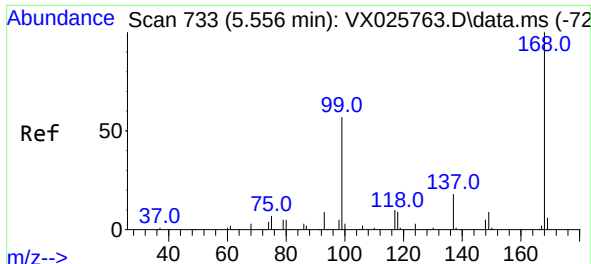
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M5031-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

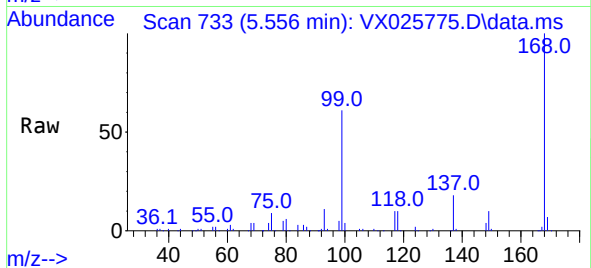
Quant Time: Dec 15 07:03:42 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 14 07:02:11 2021  
Response via : Initial Calibration



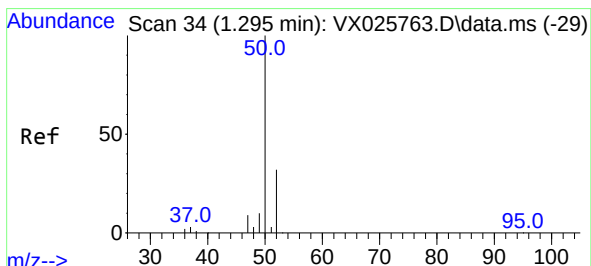
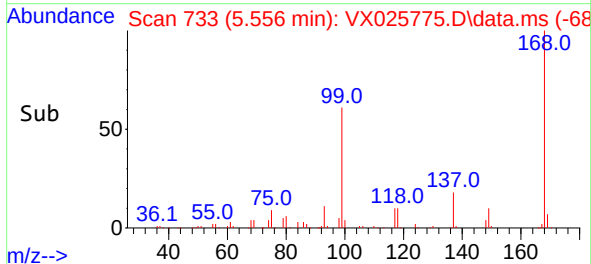
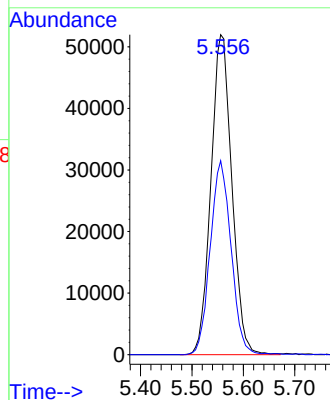


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

Instrument :  
MSVOA\_X  
ClientSampleId :

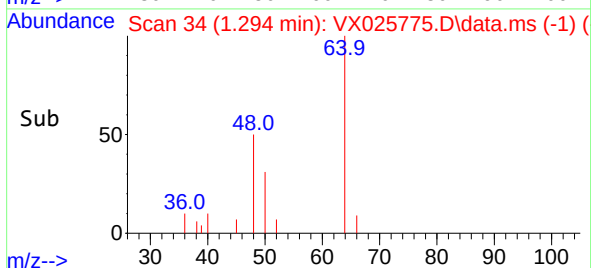
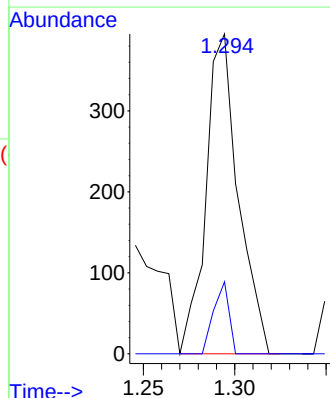
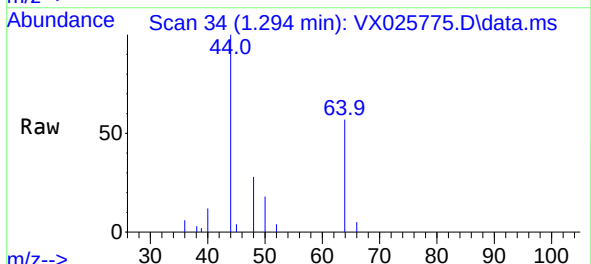


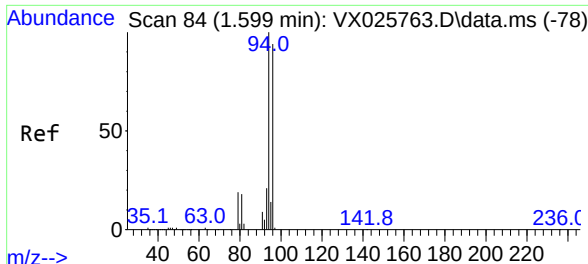
Tgt Ion:168 Resp: 146984  
Ion Ratio Lower Upper  
168 100  
99 60.6 45.8 68.8



#3  
Chloromethane  
Concen: 0.284 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

Tgt Ion: 50 Resp: 486  
Ion Ratio Lower Upper  
50 100  
52 22.5 25.4 38.0#

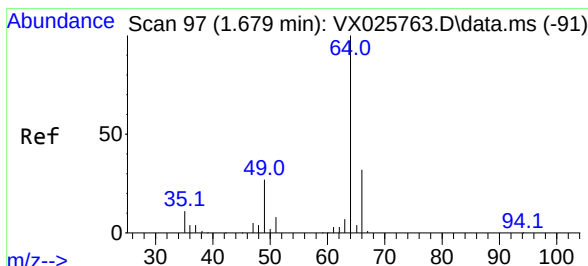
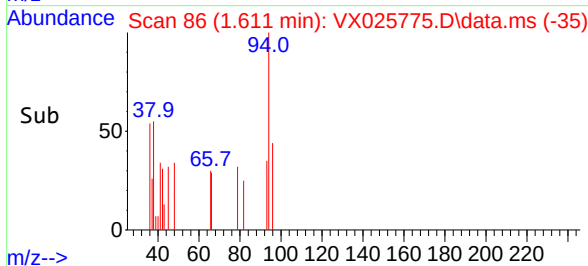
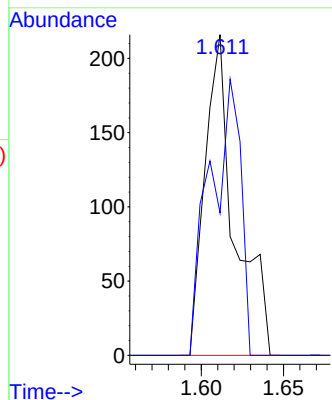
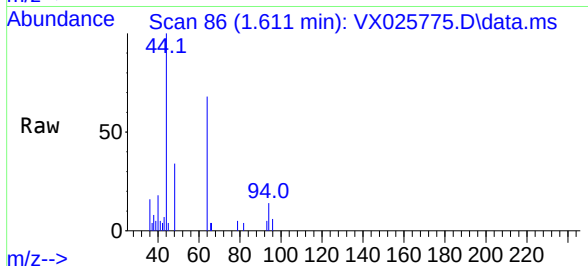




#5  
Bromomethane  
Concen: 0.209 ug/l  
RT: 1.611 min Scan# 80  
Delta R.T. 0.012 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

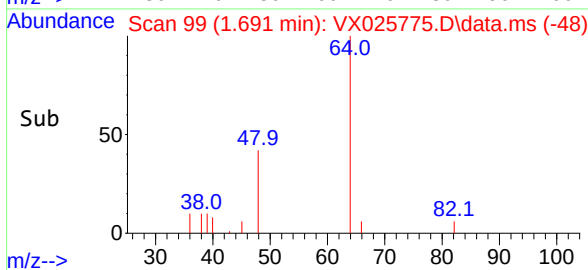
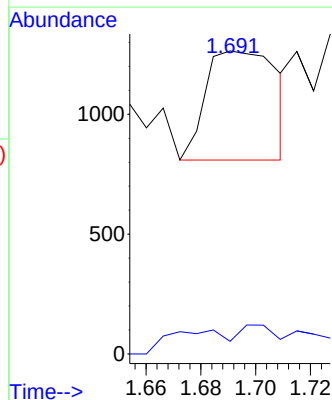
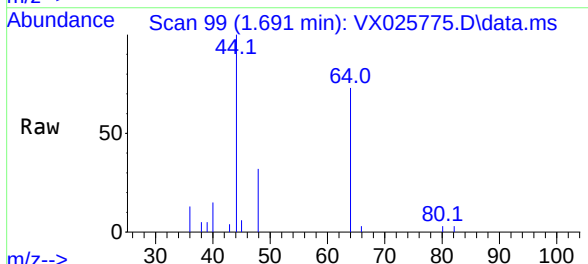
Instrument :  
MSVOA\_X  
ClientSampleId :

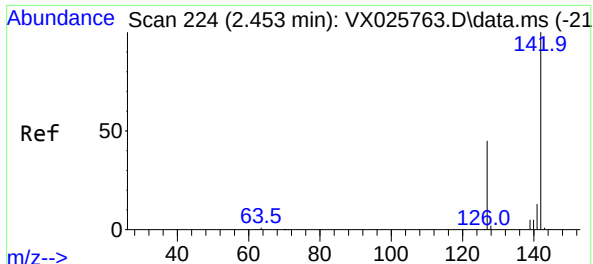
Tgt Ion: 94 Resp: 272  
Ion Ratio Lower Upper  
94 100  
96 44.4 75.0 112.4#



#6  
Chloroethane  
Concen: 0.623 ug/l  
RT: 1.691 min Scan# 99  
Delta R.T. 0.012 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

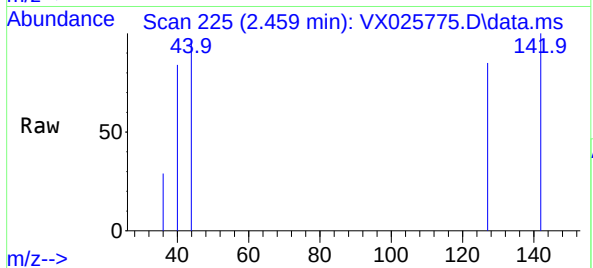
Tgt Ion: 64 Resp: 822  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.9 38.9#



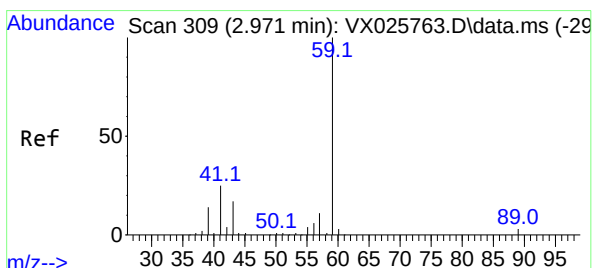
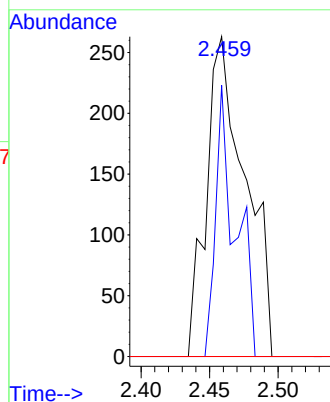
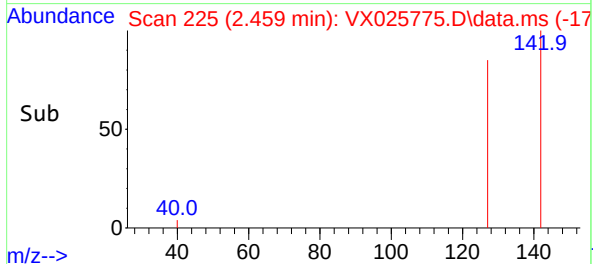


#10  
Methyl Iodide  
Concen: 0.261 ug/l  
RT: 2.459 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

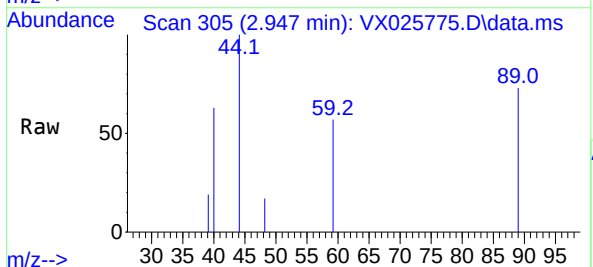
Instrument :  
MSVOA\_X  
ClientSampleId :



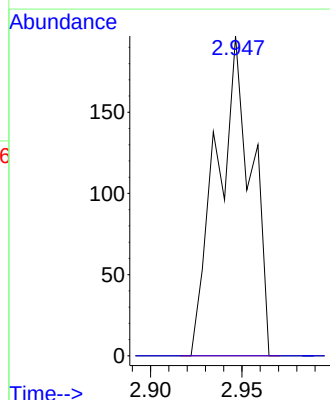
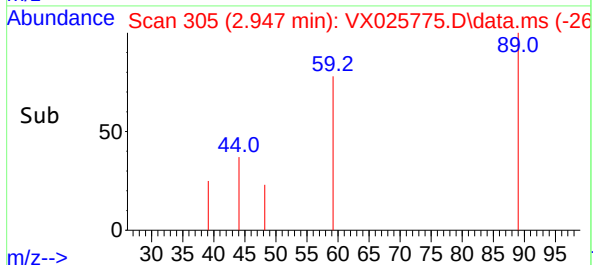
Tgt Ion:142 Resp: 521  
Ion Ratio Lower Upper  
142 100  
127 43.0 37.5 56.3  
141 0.0 11.4 17.0#

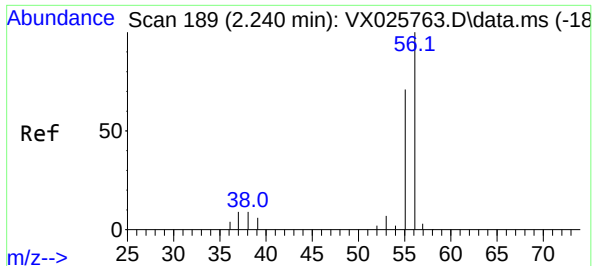


#11  
Tert butyl alcohol  
Concen: 0.618 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. -0.025 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35



Tgt Ion: 59 Resp: 262  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#

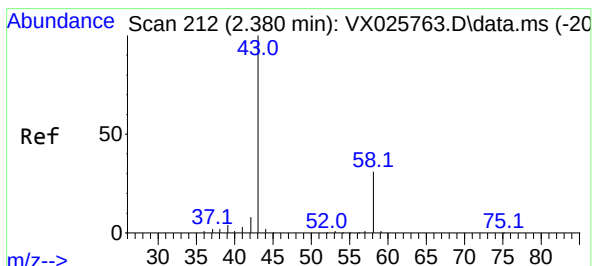
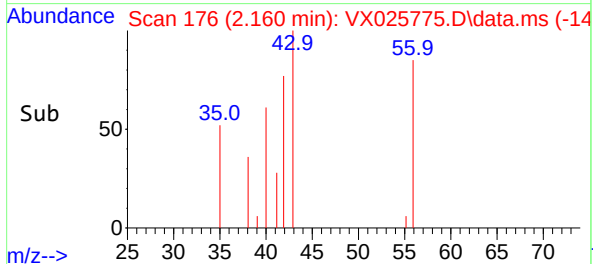
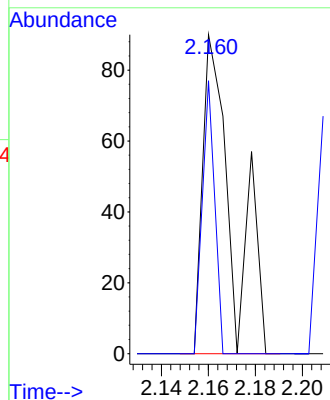
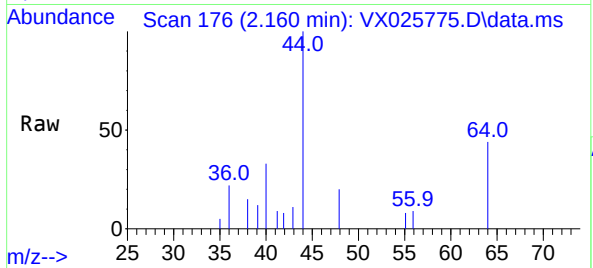




#13  
Acrolein  
Concen: 0.269 ug/l  
RT: 2.160 min Scan# 11  
Delta R.T. -0.079 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

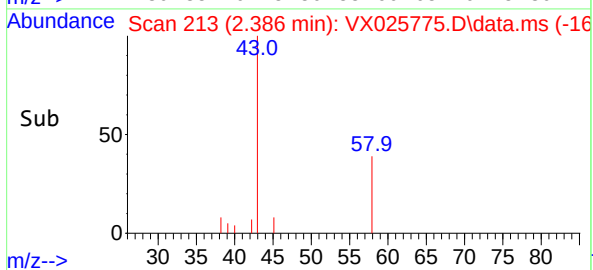
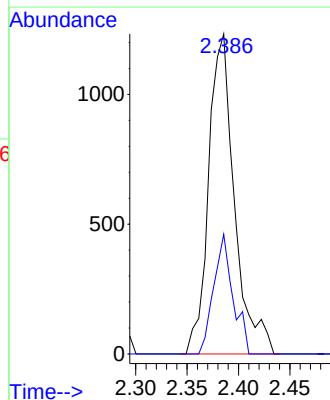
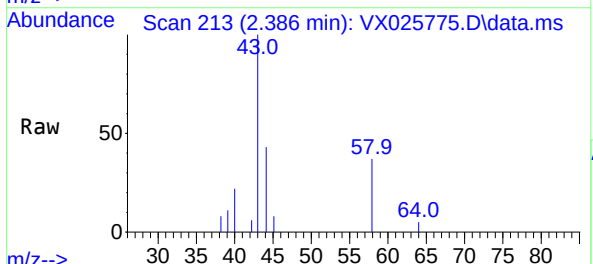
Instrument :  
MSVOA\_X  
ClientSampleId :

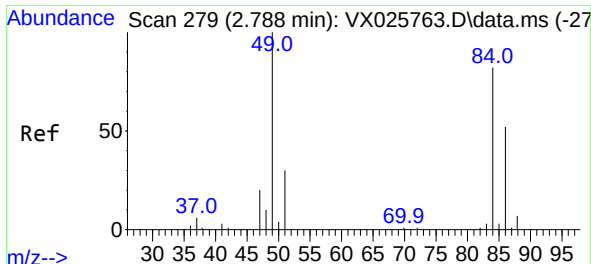
Tgt Ion: 56 Resp: 78  
Ion Ratio Lower Upper  
56 100  
55 35.9 57.4 86.2#



#16  
Acetone  
Concen: Below Cal  
RT: 2.386 min Scan# 213  
Delta R.T. 0.006 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

Tgt Ion: 43 Resp: 2159  
Ion Ratio Lower Upper  
43 100  
58 37.4 24.8 37.2#

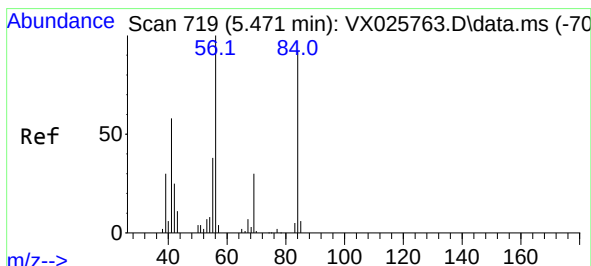
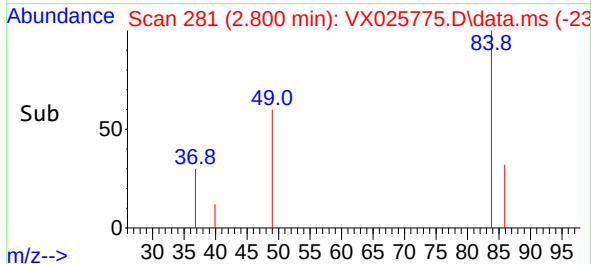
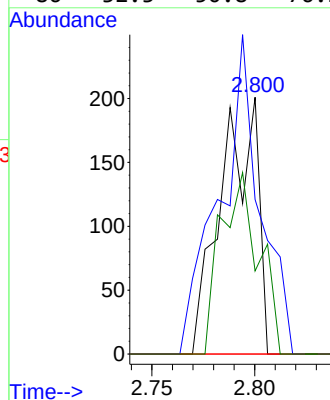
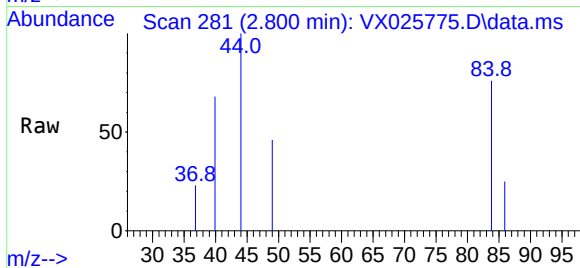




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.800 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

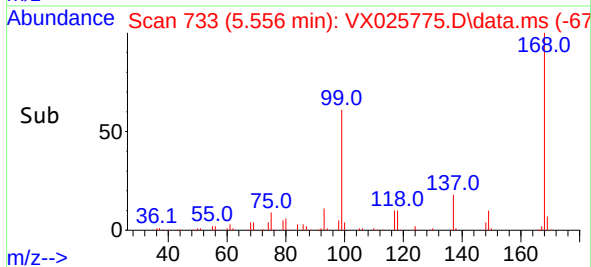
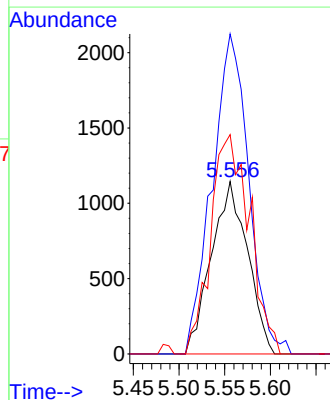
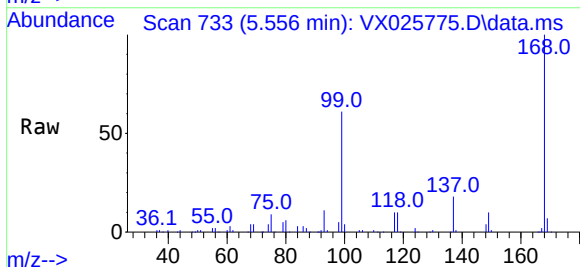
Instrument :  
MSVOA\_X  
ClientSampleId :

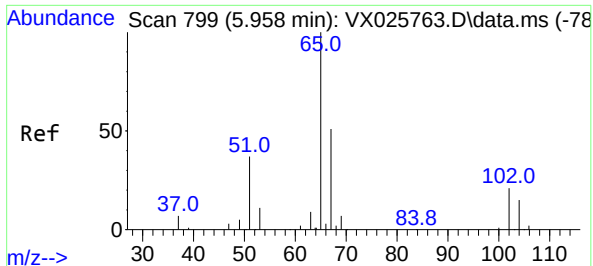
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 250    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 60.2  | 97.1  | 145.7# |
| 51       | 0.0   | 29.3  | 43.9#  |
| 86       | 32.3  | 50.8  | 76.2#  |



#31  
Cyclohexane  
Concen: 1.226 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.085 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 3154   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 185.5 | 23.9  | 35.9#  |
| 84       | 127.2 | 73.2  | 109.8# |





#33

1,2-Dichloroethane-d4

Concen: 45.939 ug/l

RT: 5.964 min Scan# 80

Delta R.T. 0.006 min

Lab File: VX025775.D

Acq: 14 Dec 2021 14:35

Instrument :

MSVOA\_X

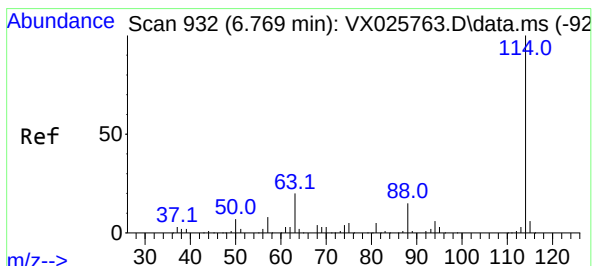
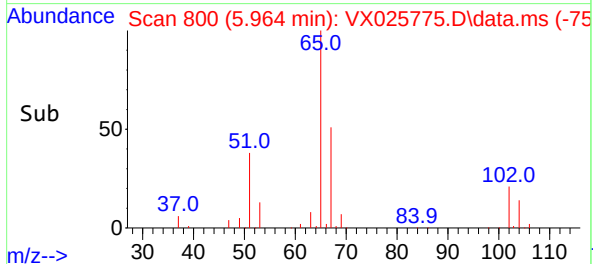
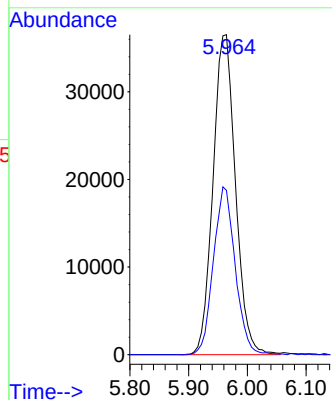
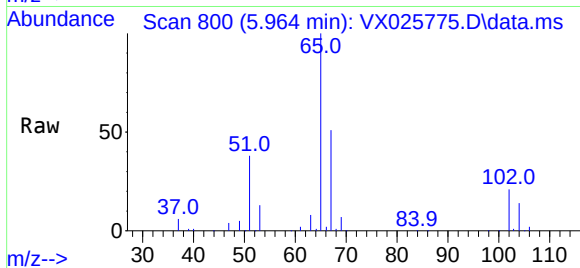
ClientSampleId :

Tgt Ion: 65 Resp: 97153

Ion Ratio Lower Upper

65 100

67 50.9 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: VX025775.D

Acq: 14 Dec 2021 14:35

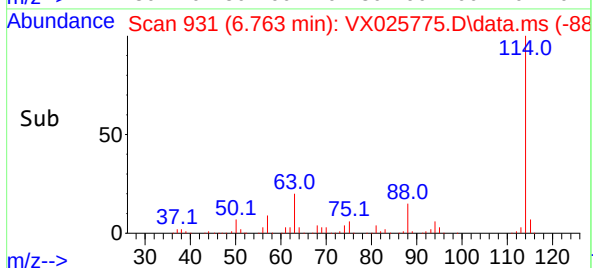
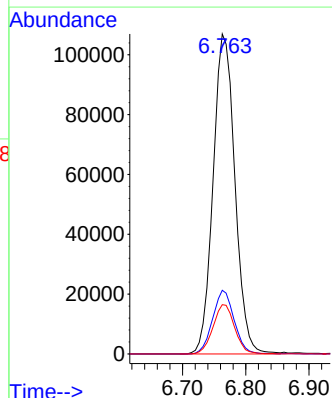
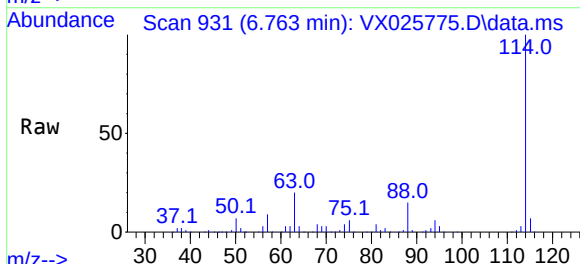
Tgt Ion: 114 Resp: 255828

Ion Ratio Lower Upper

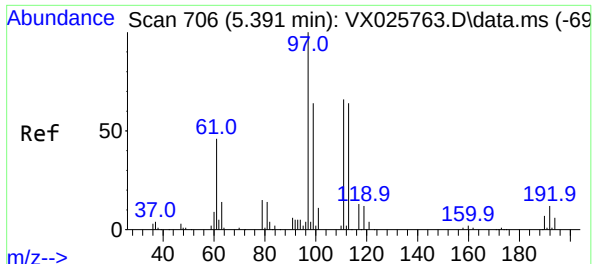
114 100

63 19.9 0.0 40.0

88 15.4 0.0 30.6

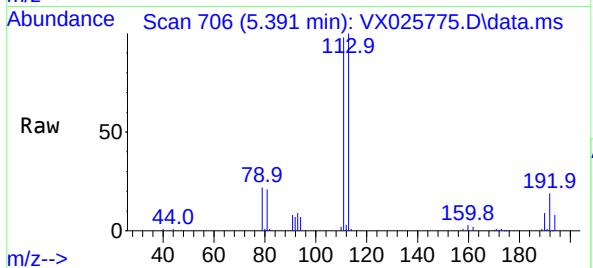




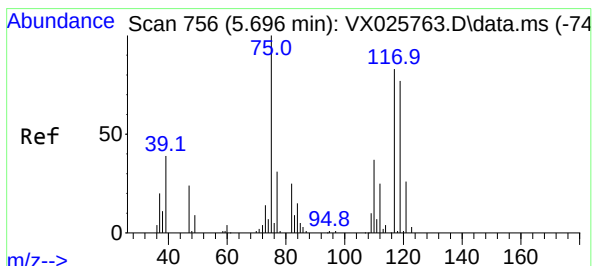
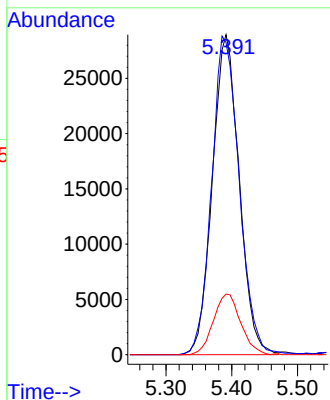
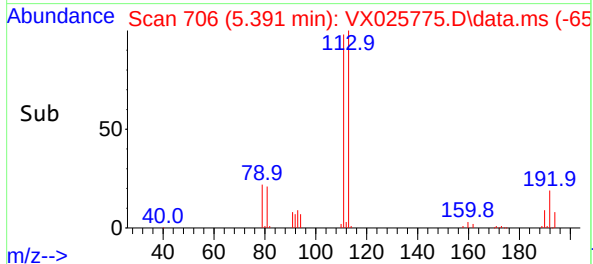


#35  
Dibromofluoromethane  
Concen: 45.999 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. -0.000 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

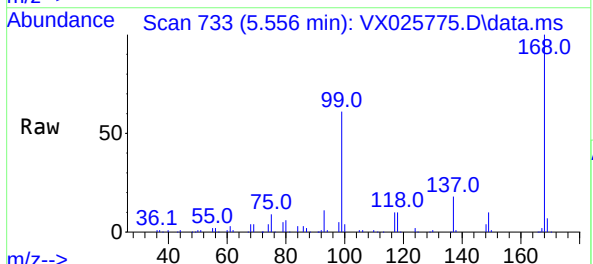
Instrument :  
MSVOA\_X  
ClientSampleId :



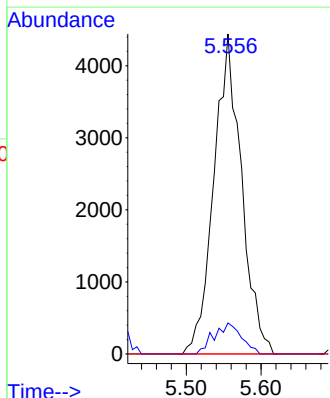
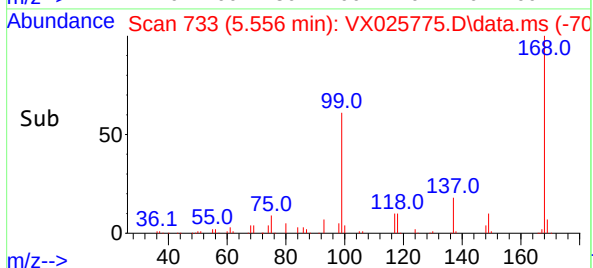
Tgt Ion:113 Resp: 82070  
Ion Ratio Lower Upper  
113 100  
111 102.0 81.8 122.8  
192 19.2 15.0 22.4

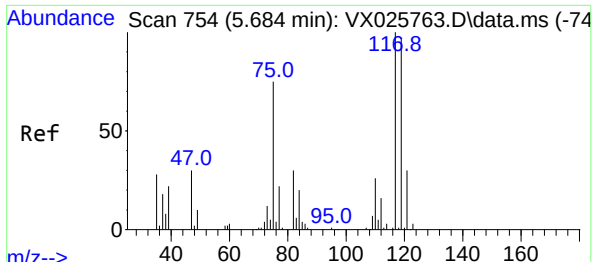


#36  
1,1-Dichloropropene  
Concen: 4.705 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.140 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35



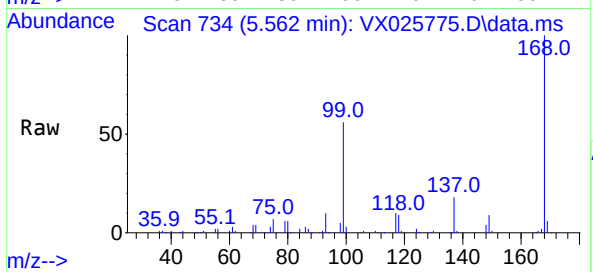
Tgt Ion: 75 Resp: 11385  
Ion Ratio Lower Upper  
75 100  
110 9.6 18.2 54.6#  
77 0.0 24.7 37.1#



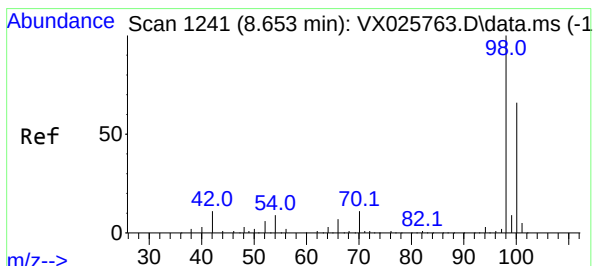
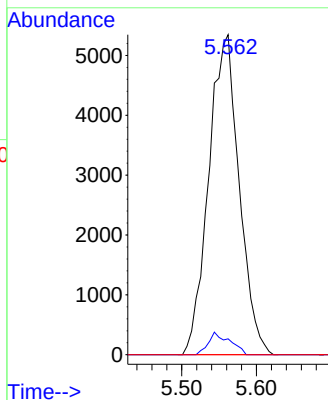
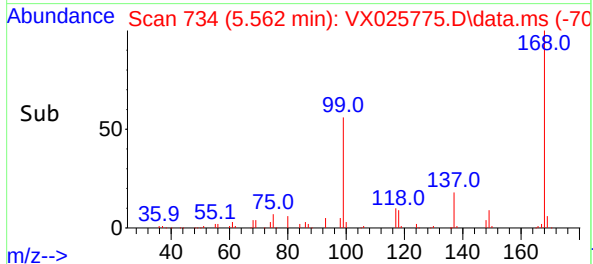


#38  
Carbon Tetrachloride  
Concen: 5.392 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

Instrument :  
MSVOA\_X  
ClientSampleId :

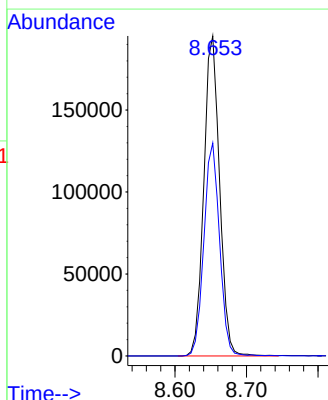
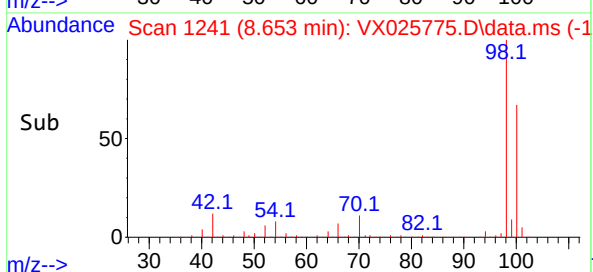
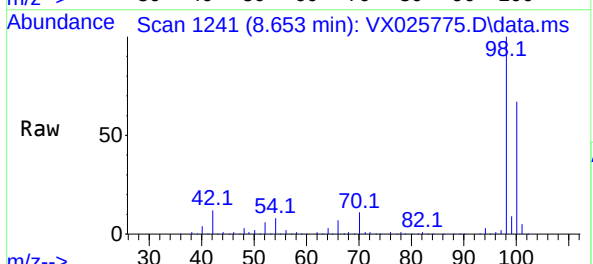


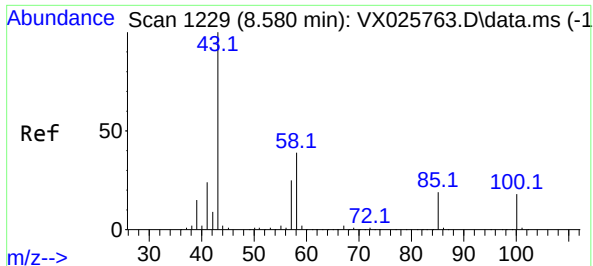
Tgt Ion:117 Resp: 15178  
Ion Ratio Lower Upper  
117 100  
119 5.0 77.2 115.8#  
121 0.0 23.8 35.8#



#50  
Toluene-d8  
Concen: 46.009 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

Tgt Ion: 98 Resp: 299087  
Ion Ratio Lower Upper  
98 100  
100 66.1 52.6 78.8

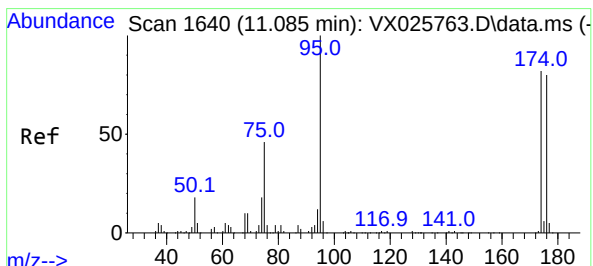
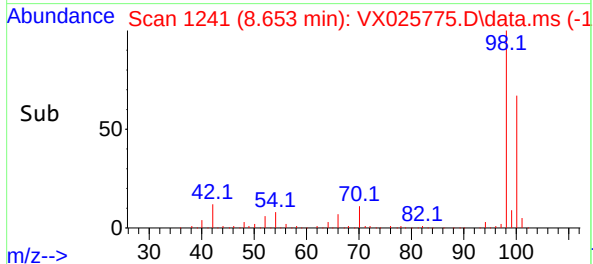
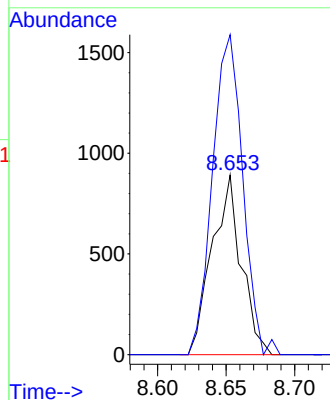
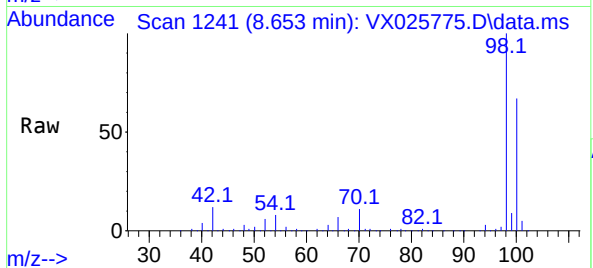




#51  
4-Methyl-2-Pentanone  
Concen: 0.466 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

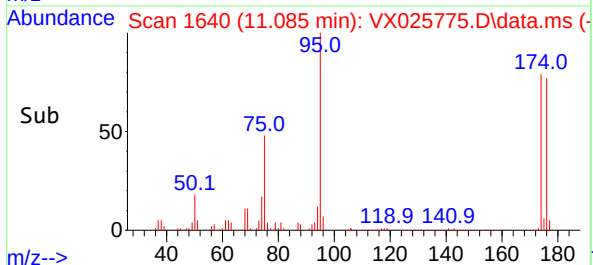
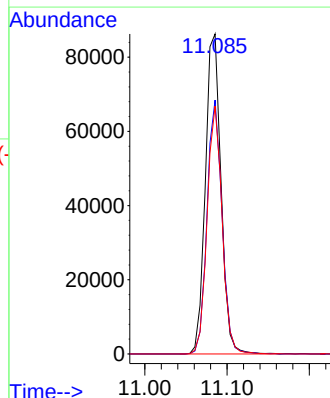
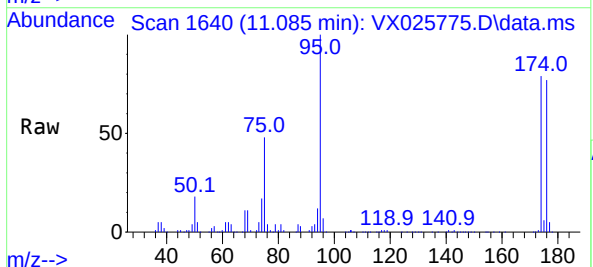
Instrument :  
MSVOA\_X  
ClientSampleId :

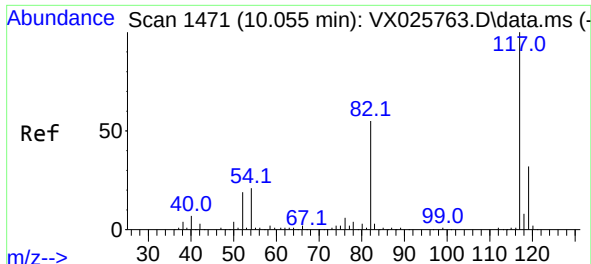
Tgt Ion: 43 Resp: 1322  
Ion Ratio Lower Upper  
43 100  
58 184.3 30.8 46.2#



#62  
4-Bromofluorobenzene  
Concen: 46.147 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.000 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

Tgt Ion: 95 Resp: 113953  
Ion Ratio Lower Upper  
95 100  
174 76.2 0.0 157.4  
176 74.4 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: VX025775.D

Acq: 14 Dec 2021 14:35

Instrument :

MSVOA\_X

ClientSampleId :

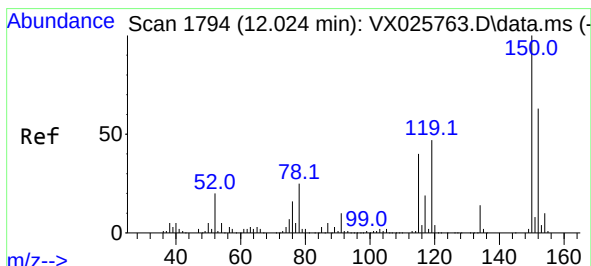
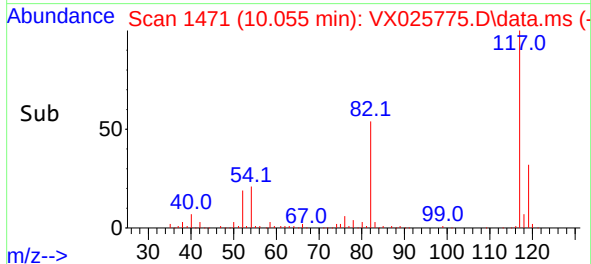
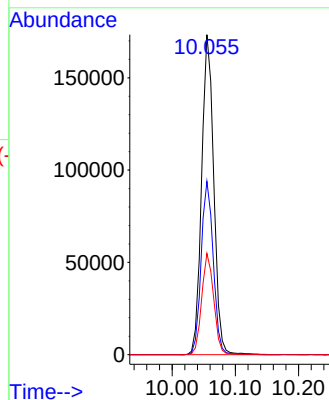
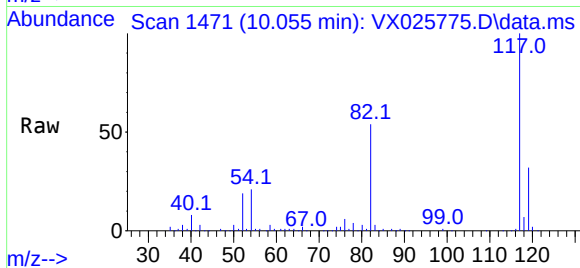
Tgt Ion:117 Resp: 232229

Ion Ratio Lower Upper

117 100

82 54.2 43.8 65.6

119 31.7 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: VX025775.D

Acq: 14 Dec 2021 14:35

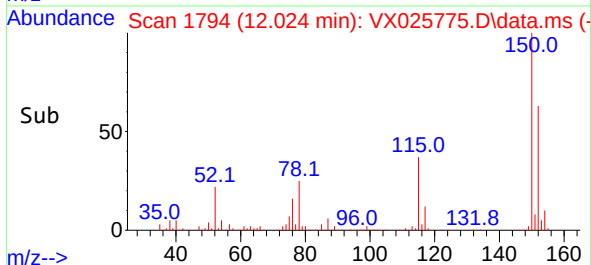
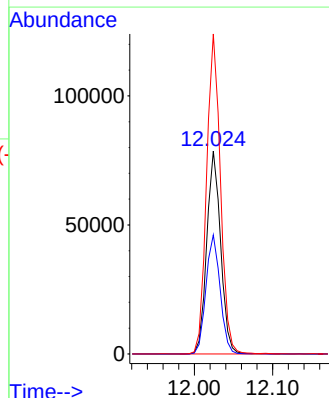
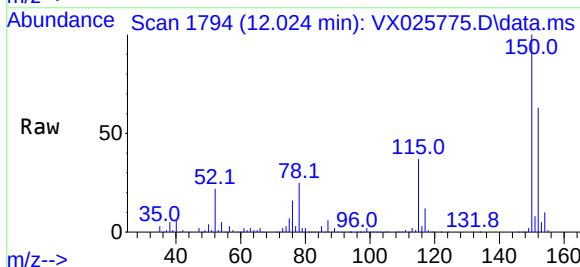
Tgt Ion:152 Resp: 96392

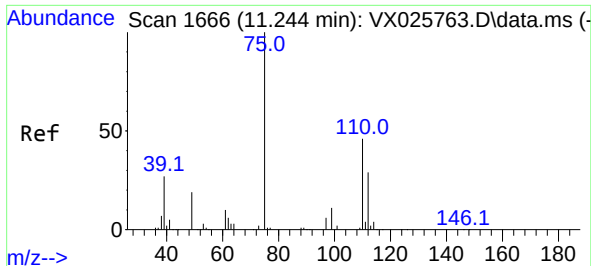
Ion Ratio Lower Upper

152 100

115 59.7 41.3 123.9

150 157.6 0.0 351.8

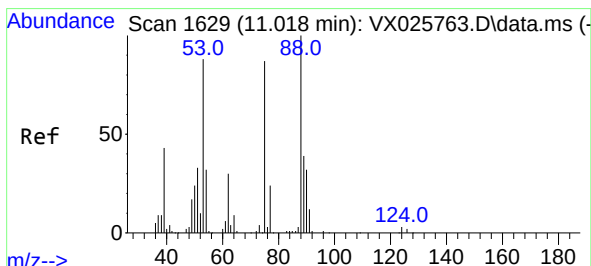
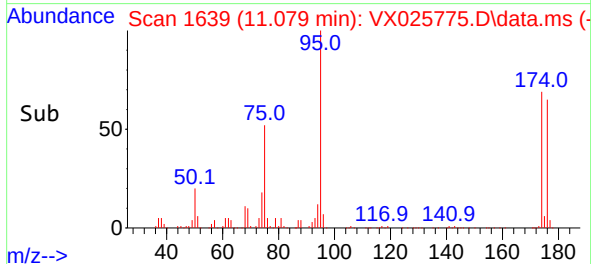
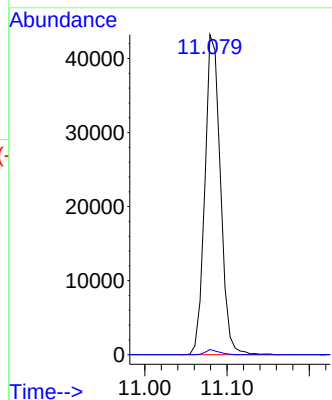
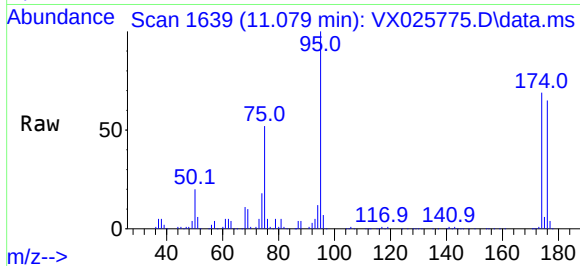




#76  
1,2,3-Trichloropropane  
Concen: 25.667 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

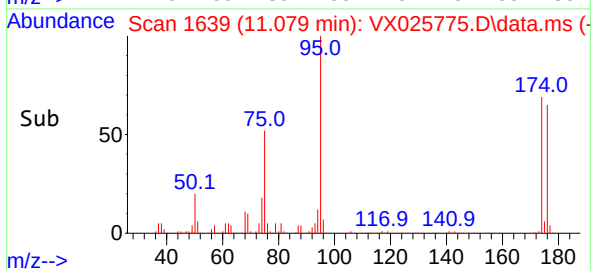
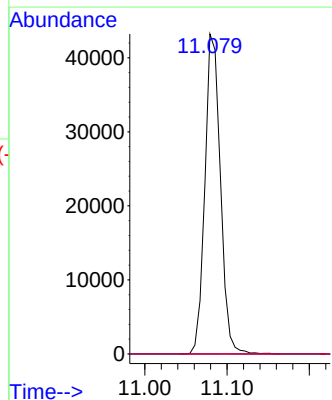
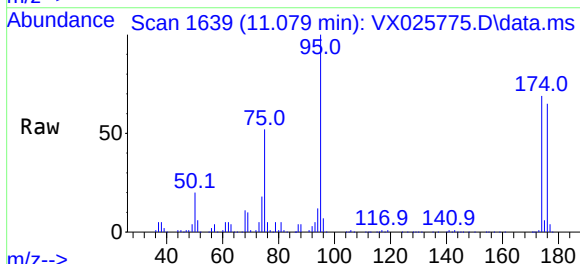
Instrument :  
MSVOA\_X  
ClientSampleId :

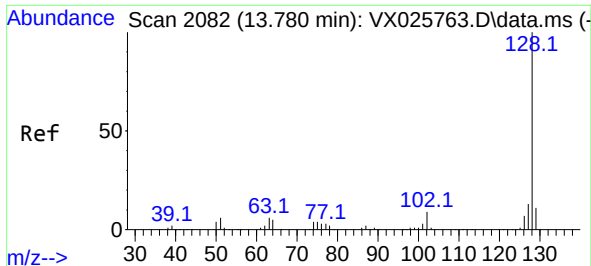
Tgt Ion: 75 Resp: 56685  
Ion Ratio Lower Upper  
75 100  
77 1.4 19.0 57.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 79.573 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

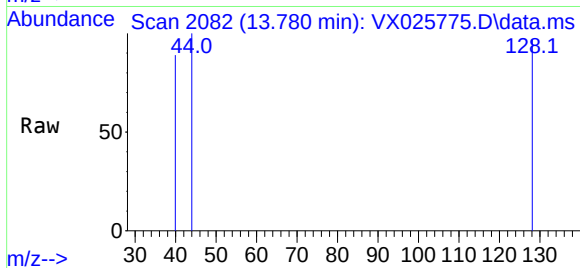
Tgt Ion: 75 Resp: 56685  
Ion Ratio Lower Upper  
75 100  
53 0.0 79.5 119.3#  
89 0.0 38.3 57.5#



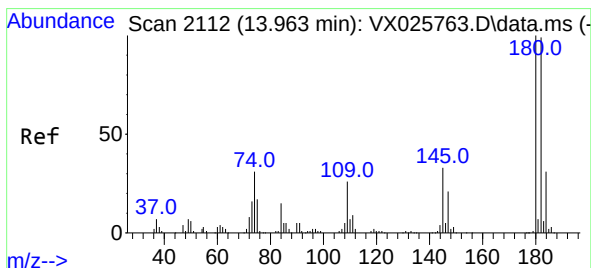
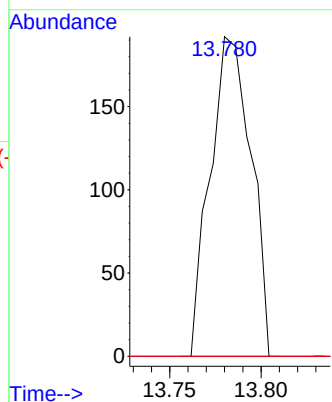


#95  
Naphthalene  
Concen: 2.455 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. -0.000 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

Instrument :  
MSVOA\_X  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 299   |
| 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: 3.029 ug/l  
RT: 13.963 min Scan# 2112  
Delta R.T. -0.000 min  
Lab File: VX025775.D  
Acq: 14 Dec 2021 14:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 72     |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 27.8  | 47.5  | 142.6# |
| 145      | 0.0   | 16.7  | 50.1#  |

