

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120221\  
 Data File : VX025427.D  
 Acq On : 02 Dec 2021 14:45  
 Operator : JC/MD  
 Sample : PB141130ZHE#02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 03 03:07:14 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

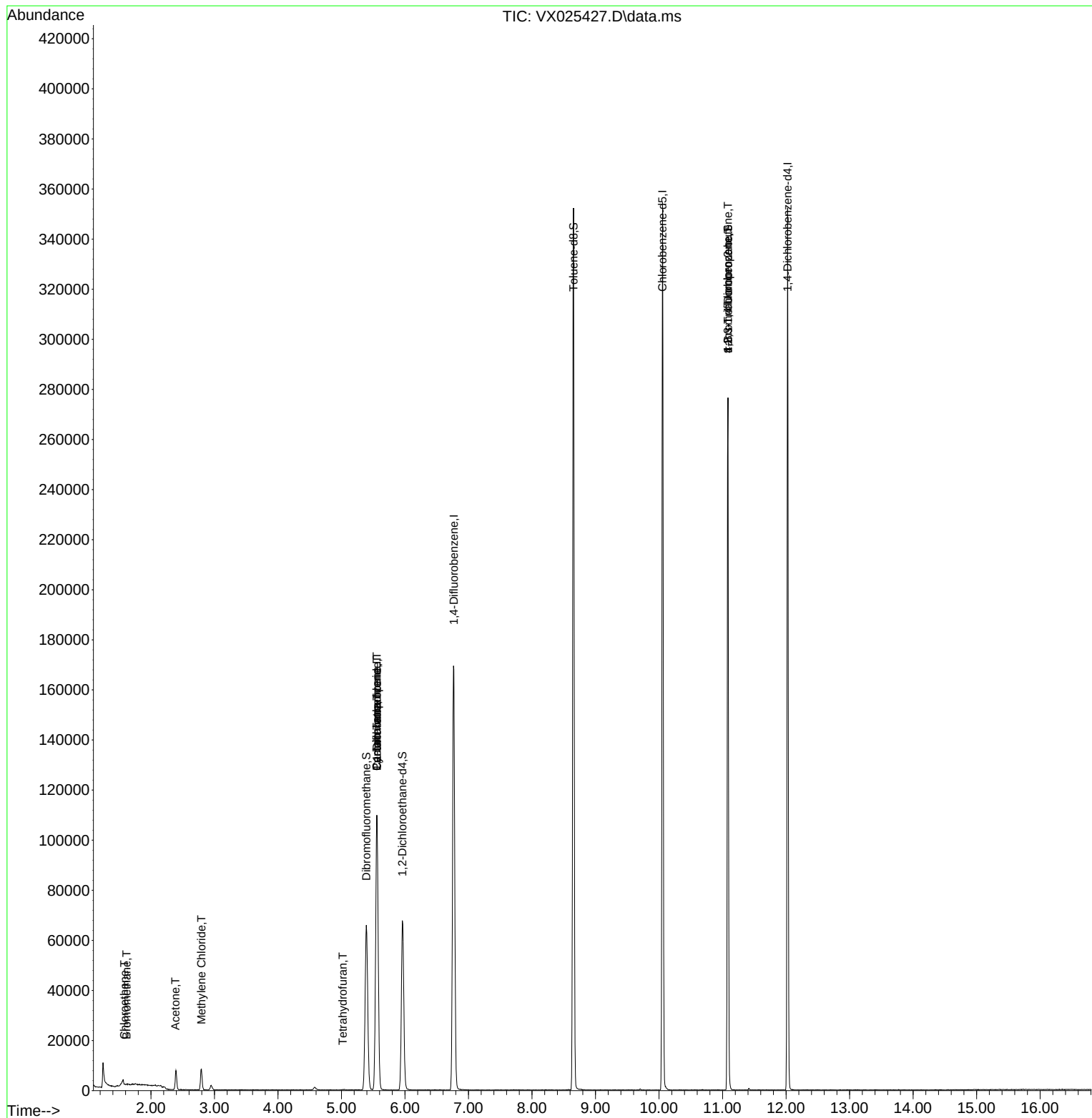
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 110854              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 183144              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 164211              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 73080               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 63482               | 54.329    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 108.660% |           |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 56630               | 50.396    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 100.800% |           |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 211833              | 50.138    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 100.280% |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 73371               | 45.904    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 91.800%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      | Qvalue              |           |        |          |
| 5) Bromomethane               | 1.618          | 94   | 163                 | 0.290     | ug/l   | 87       |
| 6) Chloroethane               | 1.581          | 64   | 496                 | 0.550     | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.947          | 59   | 1221                | Below Cal | #      | 72       |
| 16) Acetone                   | 2.386          | 43   | 1081                | 1.665     | ug/l   | 99       |
| 20) Methylene Chloride        | 2.794          | 84   | 3978                | 3.259     | ug/l # | 84       |
| 29) Tetrahydrofuran           | 5.019          | 42   | 153                 | 0.263     | ug/l # | 56       |
| 31) Cyclohexane               | 5.556          | 56   | 2058                | 1.140     | ug/l # | 5        |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 7475                | 4.678     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 10498               | 5.965     | ug/l # | 17       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 35685               | 23.845    | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 35685               | 60.070    | ug/l # | 9        |
| 95) Naphthalene               | 13.786         | 128  | 65                  | Below Cal | #      | 69       |
| -----                         |                |      |                     |           |        |          |

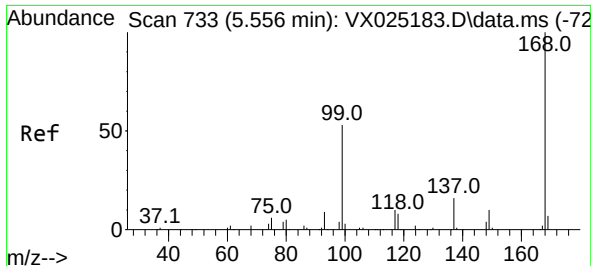
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120221\  
Data File : VX025427.D  
Acq On : 02 Dec 2021 14:45  
Operator : JC/MD  
Sample : PB141130ZHE#02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

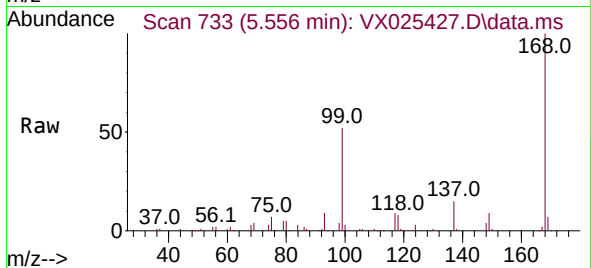
Quant Time: Dec 03 03:07:14 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 17 15:36:16 2021  
Response via : Initial Calibration



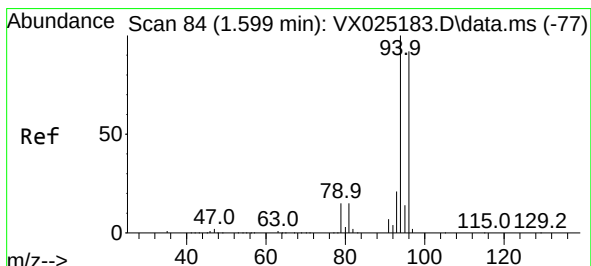
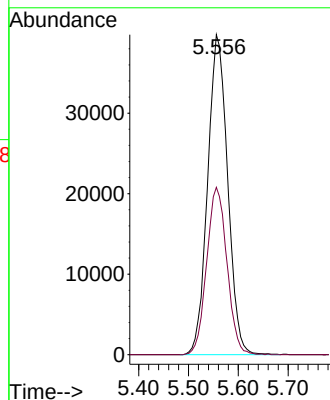
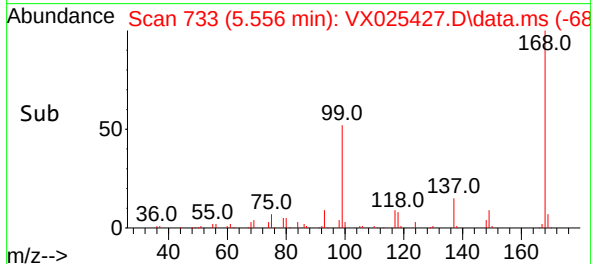


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

Instrument :  
MSVOA\_X  
ClientSampleId :

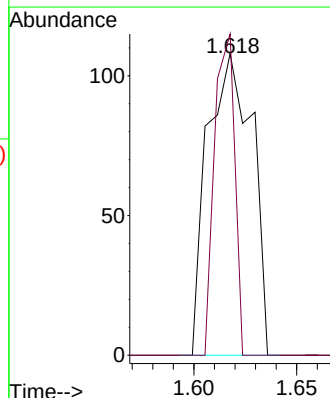
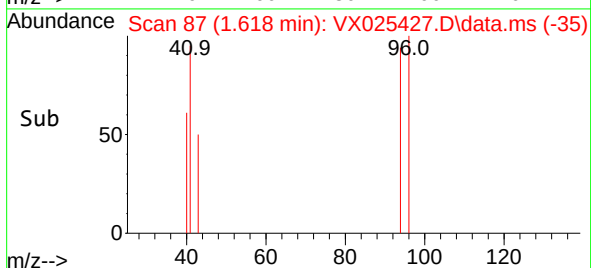
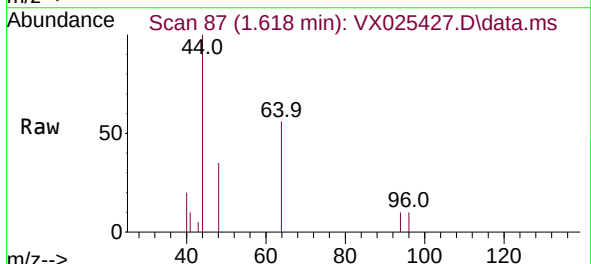


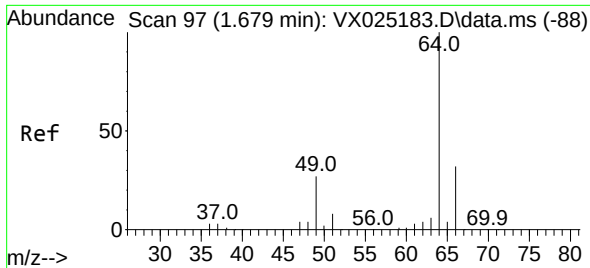
Tgt Ion:168 Resp: 110854  
Ion Ratio Lower Upper  
168 100  
99 52.3 46.4 69.6



#5  
Bromomethane  
Concen: 0.290 ug/l  
RT: 1.618 min Scan# 87  
Delta R.T. 0.019 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

Tgt Ion: 94 Resp: 163  
Ion Ratio Lower Upper  
94 100  
96 106.5 74.8 112.2

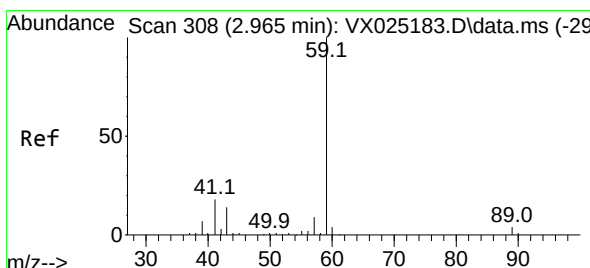
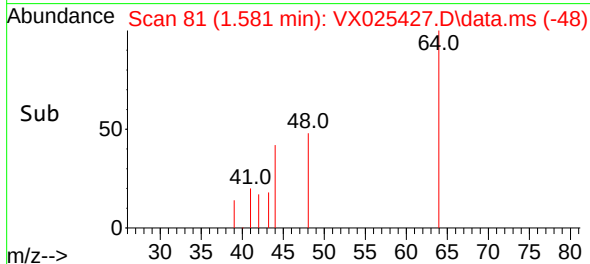
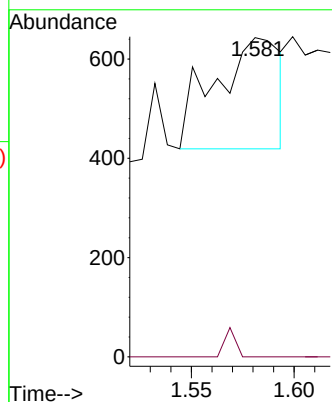
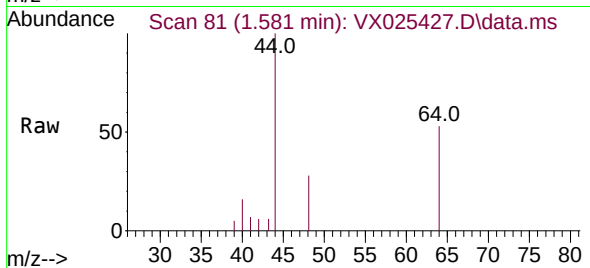




#6  
Chloroethane  
Concen: 0.550 ug/l  
RT: 1.581 min Scan# 81  
Delta R.T. -0.098 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

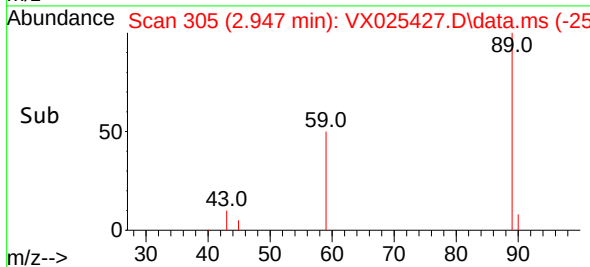
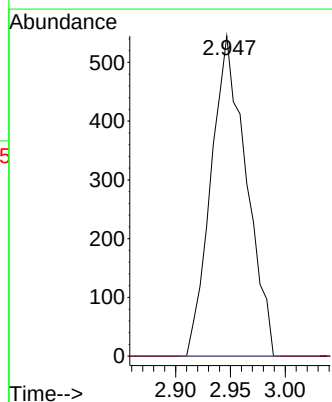
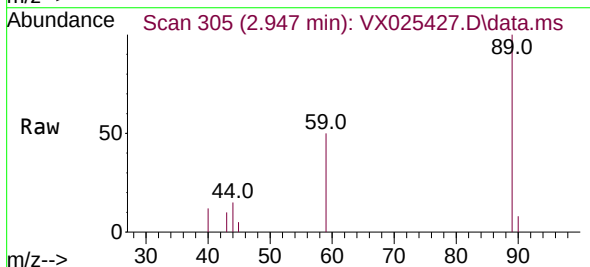
Instrument :  
MSVOA\_X  
ClientSampleId :

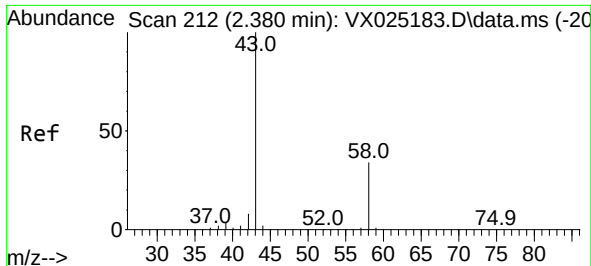
Tgt Ion: 64 Resp: 496  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.6 38.4#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.947 min Scan# 305  
Delta R.T. -0.018 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

Tgt Ion: 59 Resp: 1221  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#

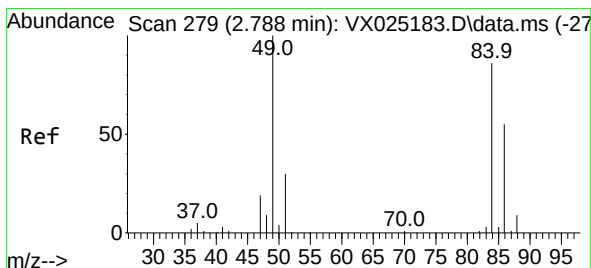
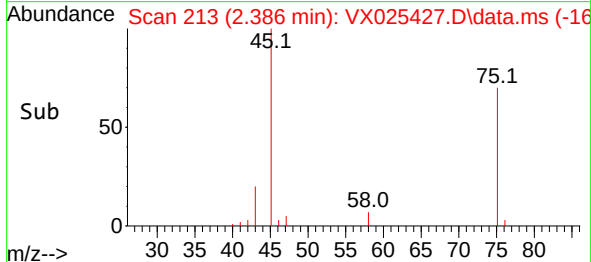
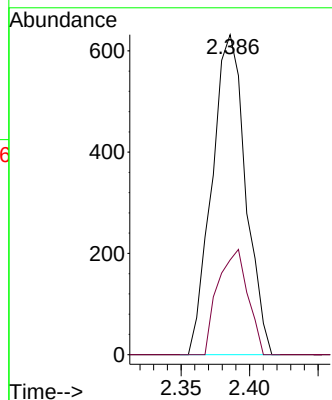
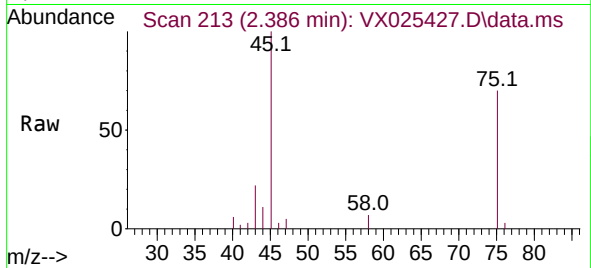




#16  
Acetone  
Concen: 1.665 ug/l  
RT: 2.386 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

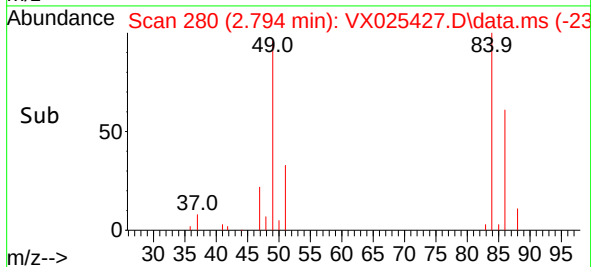
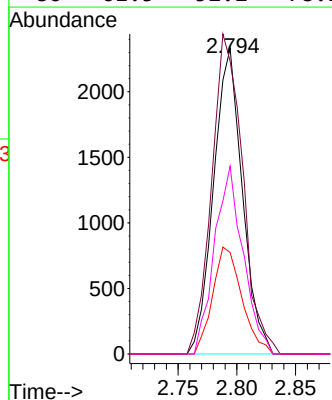
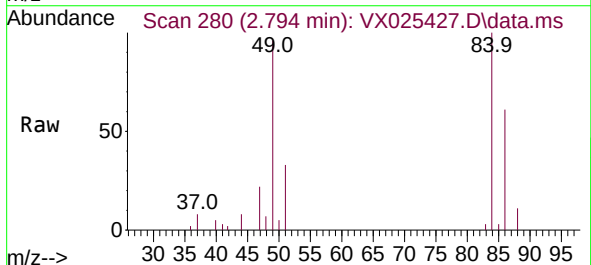
Instrument :  
MSVOA\_X  
ClientSampleId :

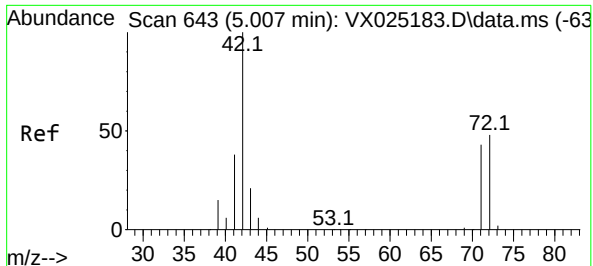
Tgt Ion: 43 Resp: 1081  
Ion Ratio Lower Upper  
43 100  
58 29.6 24.0 36.0



#20  
Methylene Chloride  
Concen: 3.259 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.006 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

Tgt Ion: 84 Resp: 3978  
Ion Ratio Lower Upper  
84 100  
49 95.8 98.2 147.2#  
51 33.2 30.2 45.4  
86 61.5 52.2 78.2





#29

Tetrahydrofuran

Concen: 0.263 ug/l

RT: 5.019 min Scan# 643

Delta R.T. 0.012 min

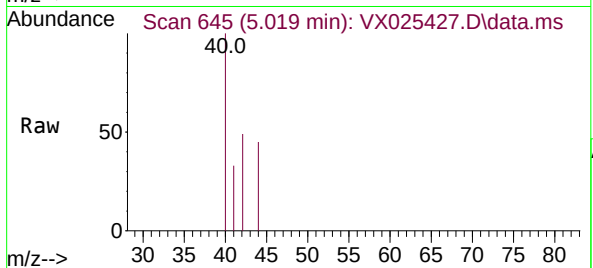
Lab File: VX025427.D

Acq: 02 Dec 2021 14:45

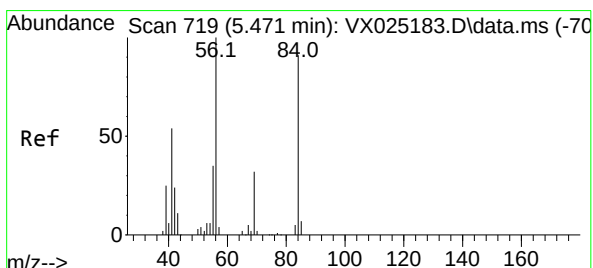
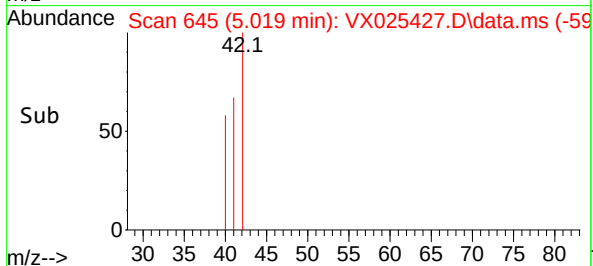
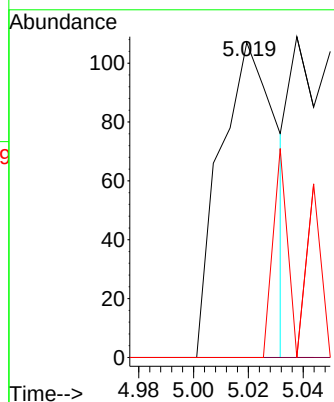
Instrument :

MSVOA\_X

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 153   |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 72        | 0.0   | 36.1  | 54.1# |
| 71        | 31.4  | 33.7  | 50.5# |



#31

Cyclohexane

Concen: 1.140 ug/l

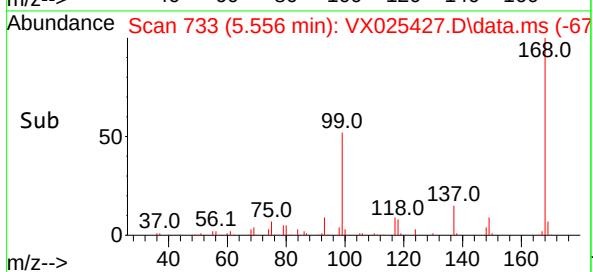
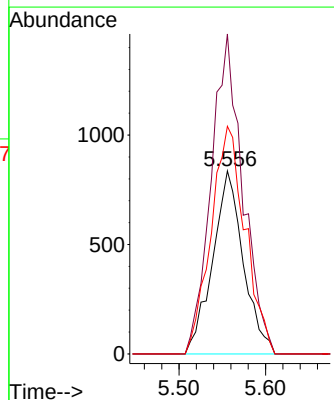
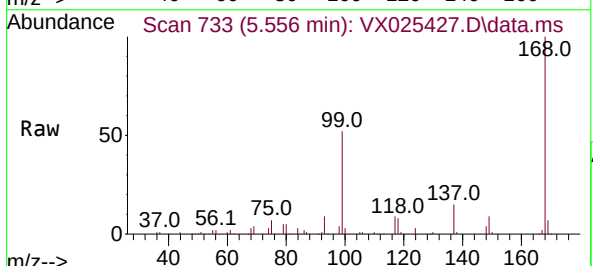
RT: 5.556 min Scan# 733

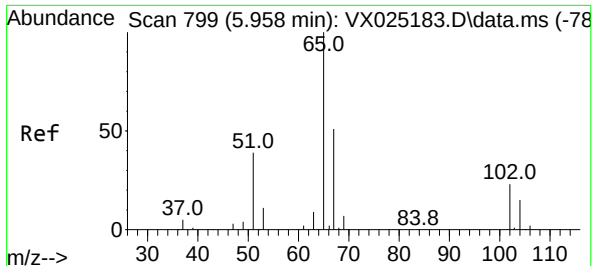
Delta R.T. 0.085 min

Lab File: VX025427.D

Acq: 02 Dec 2021 14:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 56    | Resp: | 2058   |
| Ion Ratio | Lower | Upper |        |
| 56        | 100   |       |        |
| 69        | 174.9 | 24.2  | 36.2#  |
| 84        | 124.4 | 71.5  | 107.3# |





#33

1,2-Dichloroethane-d4

Concen: 54.329 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX025427.D

Acq: 02 Dec 2021 14:45

Instrument :

MSVOA\_X

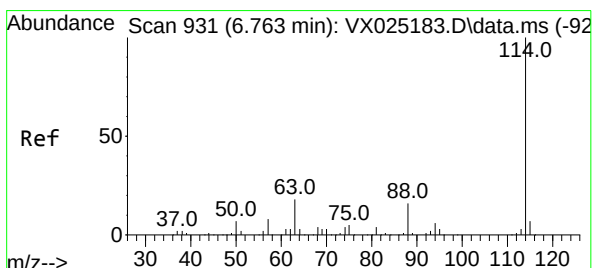
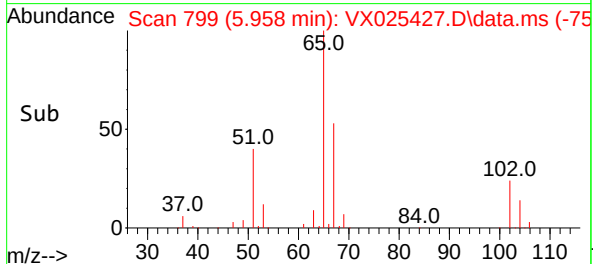
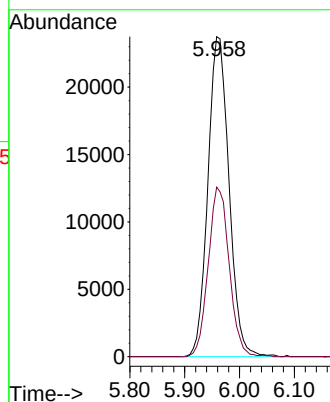
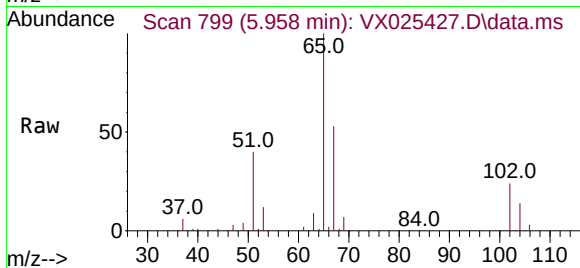
ClientSampleId :

Tgt Ion: 65 Resp: 63482

Ion Ratio Lower Upper

65 100

67 52.6 0.0 101.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.006 min

Lab File: VX025427.D

Acq: 02 Dec 2021 14:45

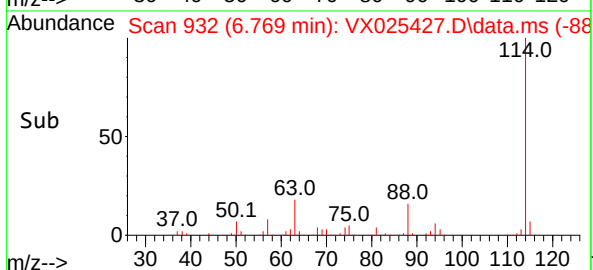
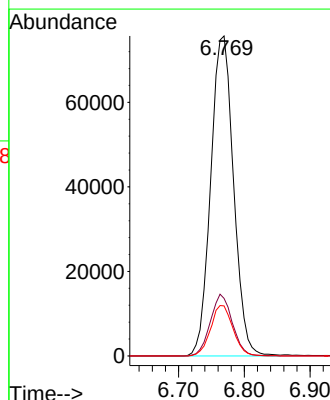
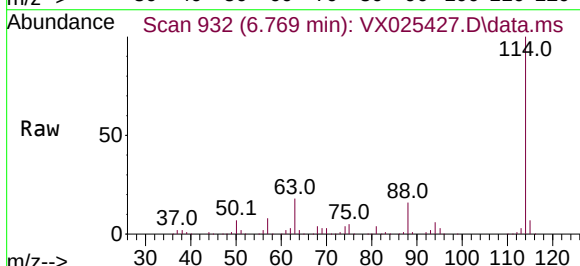
Tgt Ion: 114 Resp: 183144

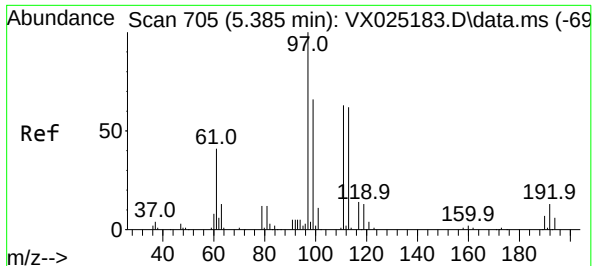
Ion Ratio Lower Upper

114 100

63 18.0 0.0 41.0

88 15.7 0.0 34.8





#35

Dibromofluoromethane

Concen: 50.396 ug/l

RT: 5.391 min Scan# 705

Delta R.T. 0.006 min

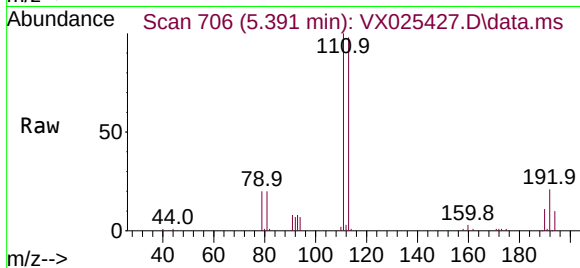
Lab File: VX025427.D

Acq: 02 Dec 2021 14:45

Instrument :

MSVOA\_X

ClientSampleId :



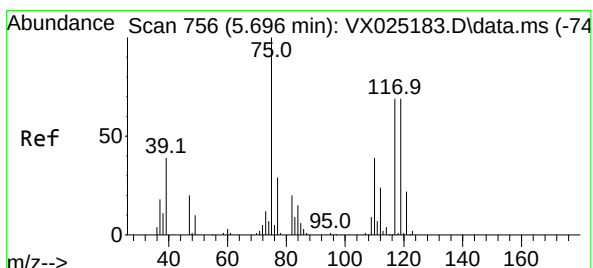
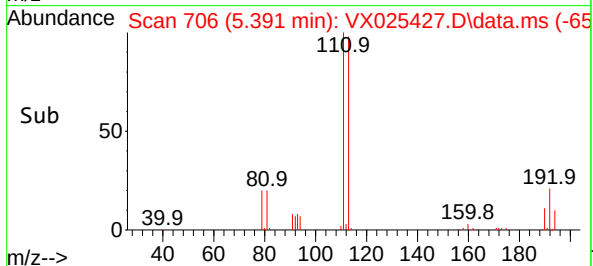
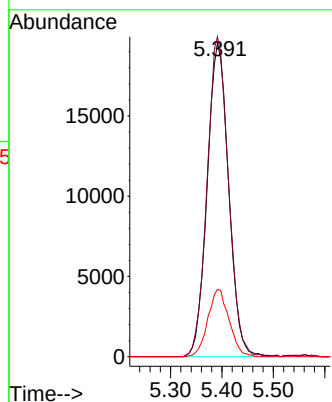
Tgt Ion:113 Resp: 56630

Ion Ratio Lower Upper

113 100

111 101.6 82.1 123.1

192 21.2 15.6 23.4



#36

1,1-Dichloropropene

Concen: 4.678 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX025427.D

Acq: 02 Dec 2021 14:45

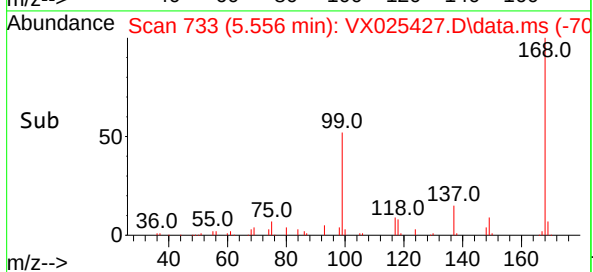
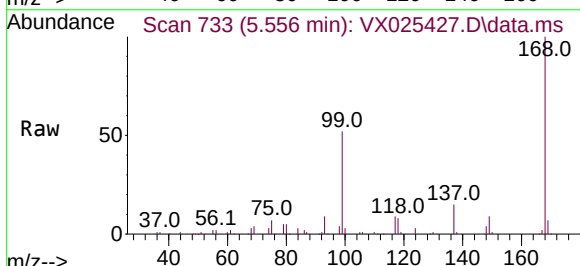
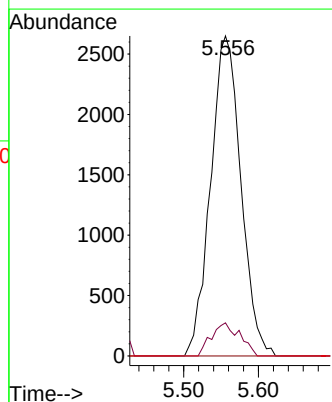
Tgt Ion: 75 Resp: 7475

Ion Ratio Lower Upper

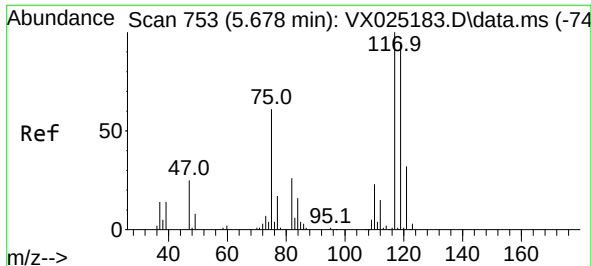
75 100

110 9.7 18.1 54.3#

77 0.0 24.4 36.6#

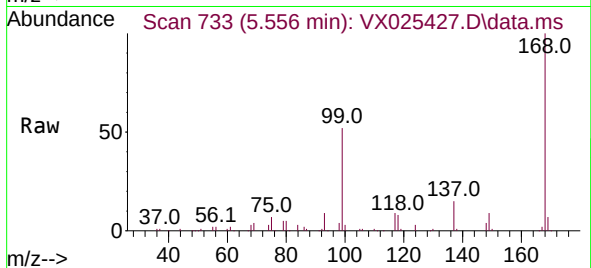




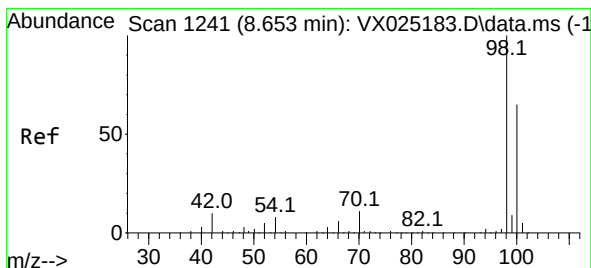
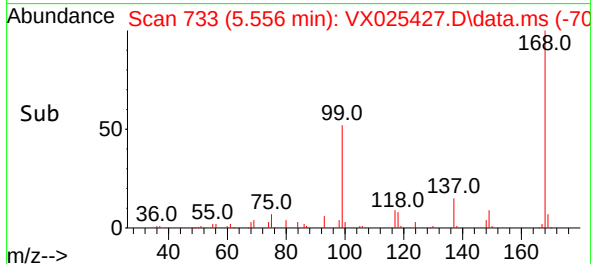
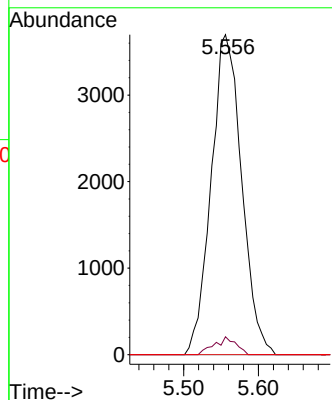


#38  
Carbon Tetrachloride  
Concen: 5.965 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

Instrument :  
MSVOA\_X  
ClientSampleId :

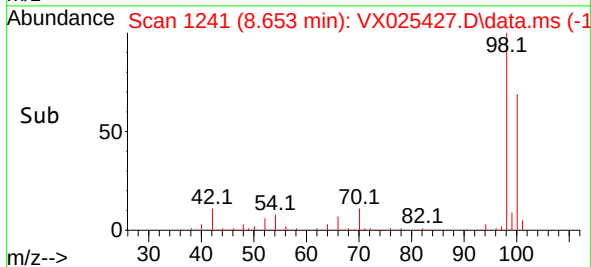
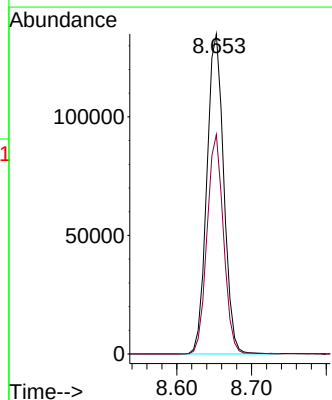
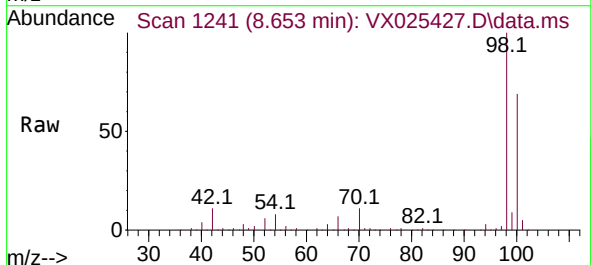


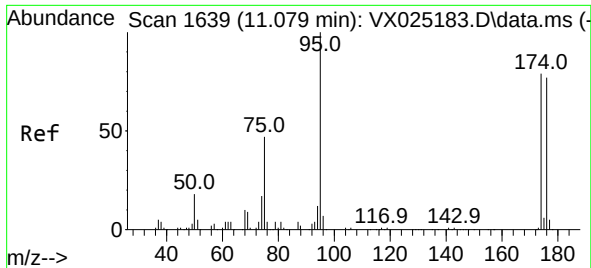
Tgt Ion:117 Resp: 10498  
Ion Ratio Lower Upper  
117 100  
119 5.6 75.6 113.4#  
121 0.0 23.7 35.5#



#50  
Toluene-d8  
Concen: 50.138 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

Tgt Ion: 98 Resp: 211833  
Ion Ratio Lower Upper  
98 100  
100 66.8 51.4 77.0

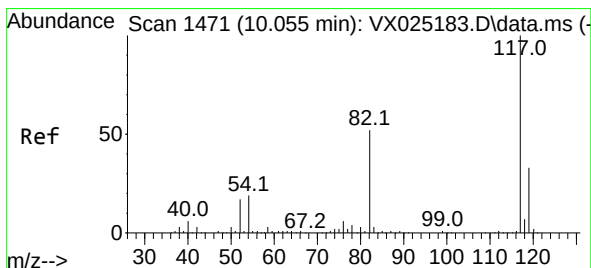
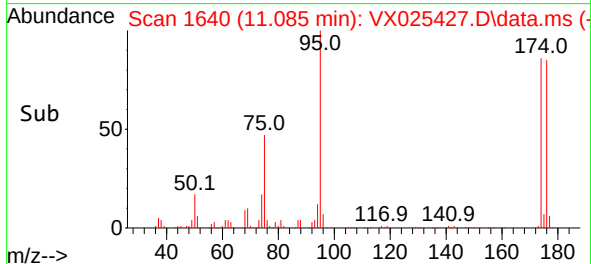
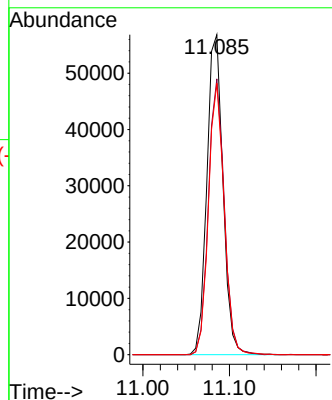
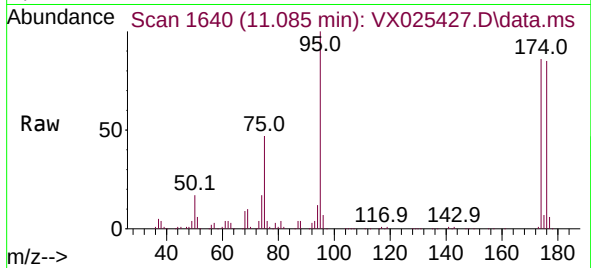




#62  
4-Bromofluorobenzene  
Concen: 45.904 ug/l  
RT: 11.085 min Scan# 1  
Delta R.T. 0.006 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

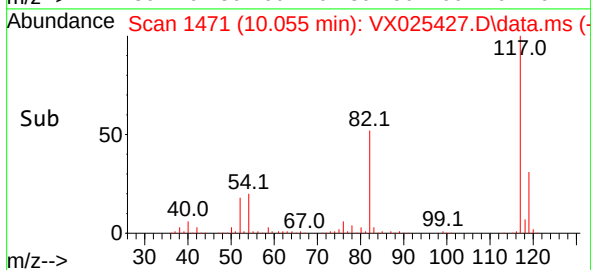
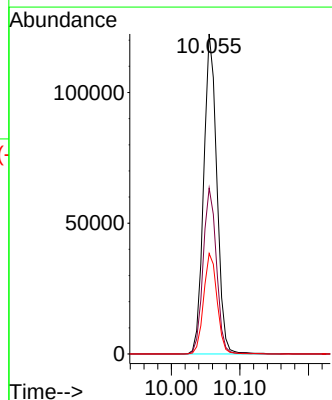
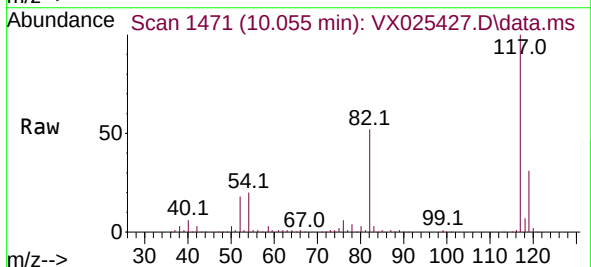
Instrument :  
MSVOA\_X  
ClientSampleId :

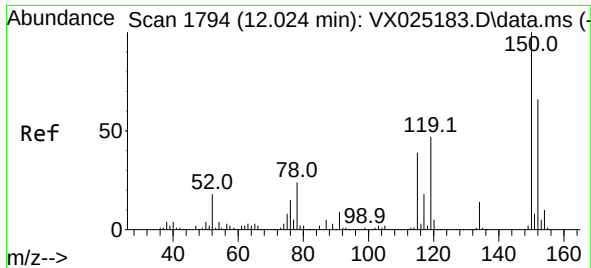
Tgt Ion: 95 Resp: 73371  
Ion Ratio Lower Upper  
95 100  
174 85.1 0.0 158.0  
176 82.8 0.0 153.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

Tgt Ion: 117 Resp: 164211  
Ion Ratio Lower Upper  
117 100  
82 51.8 44.6 67.0  
119 31.4 24.8 37.2

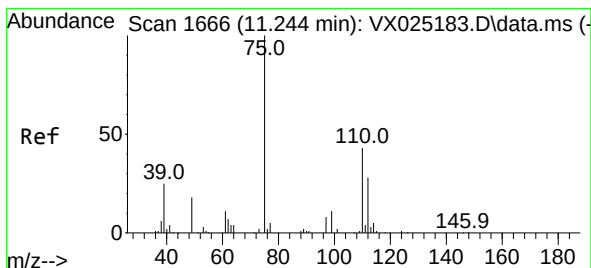
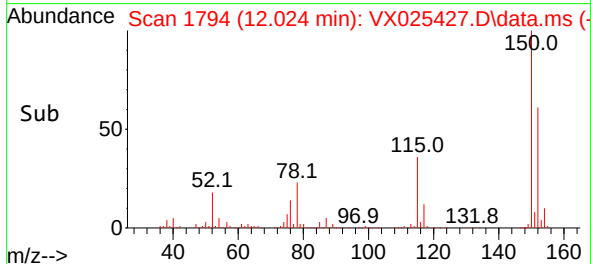
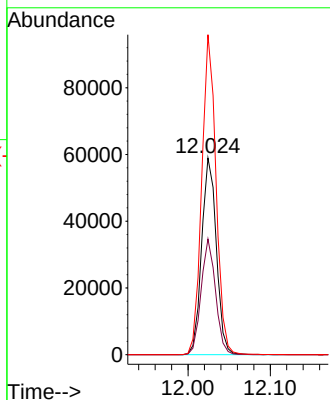
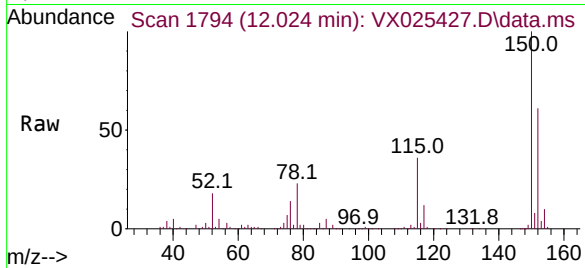




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

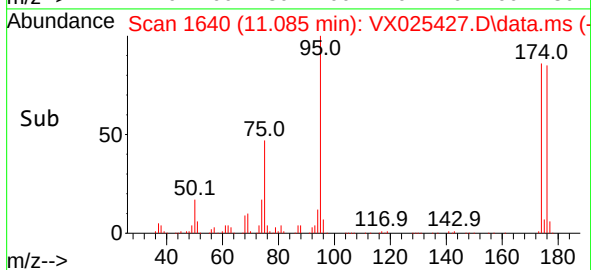
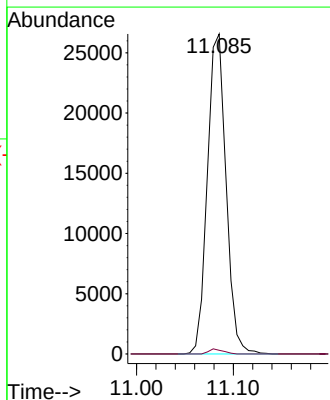
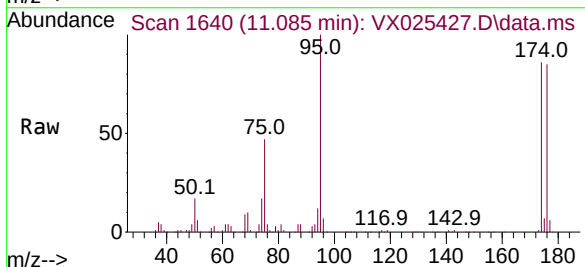
Instrument :  
MSVOA\_X  
ClientSampleId :

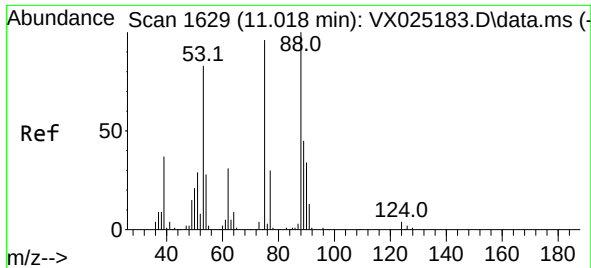
Tgt Ion:152 Resp: 73080  
Ion Ratio Lower Upper  
152 100  
115 57.6 43.3 129.8  
150 158.1 0.0 351.2



#76  
1,2,3-Trichloropropane  
Concen: 23.845 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

Tgt Ion: 75 Resp: 35685  
Ion Ratio Lower Upper  
75 100  
77 1.2 20.0 59.9#

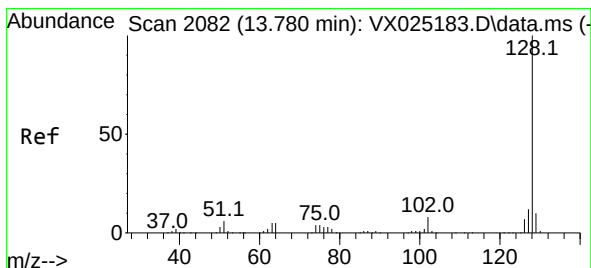
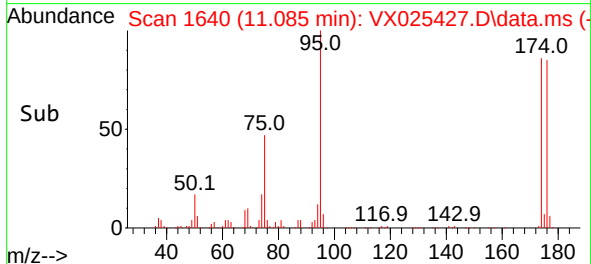
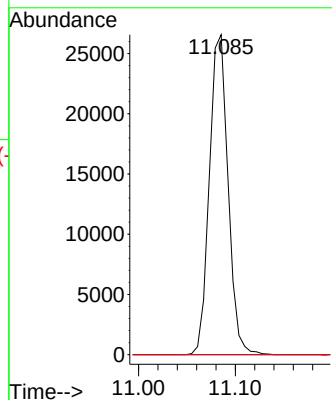
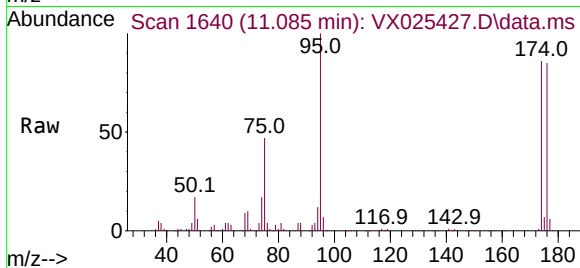




#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.070 ug/l  
RT: 11.085 min Scan# 1  
Delta R.T. 0.067 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 35685  
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: 13.786 min Scan# 2083  
Delta R.T. 0.006 min  
Lab File: VX025427.D  
Acq: 02 Dec 2021 14:45

Tgt Ion: 128 Resp: 65  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

