

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX123121\  
 Data File : VX026170.D  
 Acq On : 30 Dec 2021 16:00  
 Operator : JC/MD  
 Sample : M5207-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 31 07:09:25 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X123021W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 30 08:02:21 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.562  | 168  | 138222   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.769  | 114  | 236612   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 207644   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 90798    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 5.964  | 65    | 102109   | 51.063   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | = 102.120% |      |
| 35) Dibromofluoromethane    | 5.391  | 113   | 81090    | 52.714   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 105.420% |      |
| 50) Toluene-d8              | 8.653  | 98    | 274481   | 47.971   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | = 95.940%  |      |
| 62) 4-Bromofluorobenzene    | 11.085 | 95    | 95129    | 46.703   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | = 93.400%  |      |

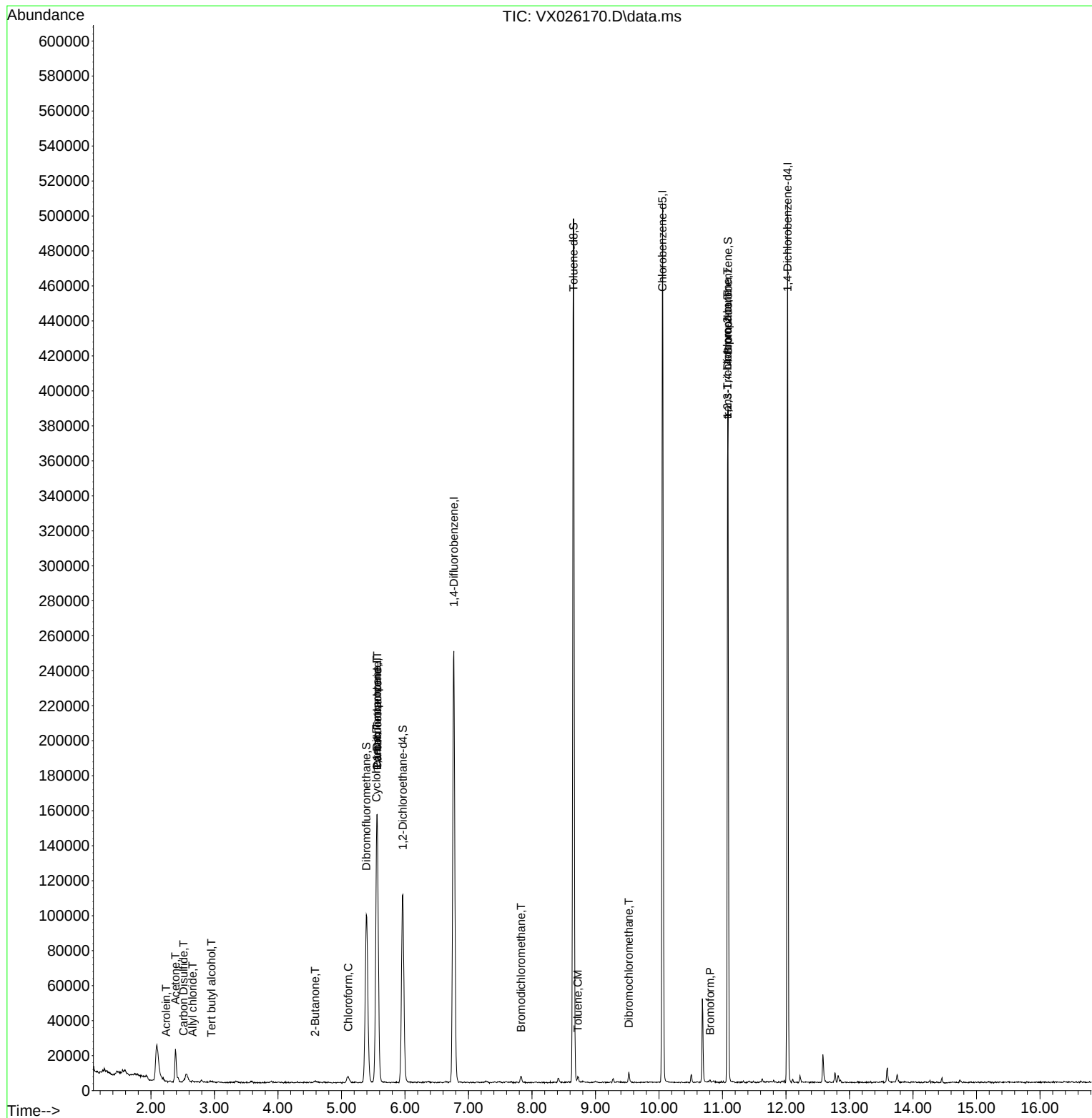
|                               |        |     |        |           |        |    |
|-------------------------------|--------|-----|--------|-----------|--------|----|
| Target Compounds              |        |     | Qvalue |           |        |    |
| 11) Tert butyl alcohol        | 2.953  | 59  | 206    | 0.516     | ug/l # | 73 |
| 13) Acrolein                  | 2.240  | 56  | 211    | 1.477     | ug/l # | 72 |
| 14) Allyl chloride            | 2.654  | 41  | 861    | 0.285     | ug/l # | 48 |
| 16) Acetone                   | 2.386  | 43  | 21130  | 19.503    | ug/l   | 98 |
| 17) Carbon Disulfide          | 2.514  | 76  | 1374   | 0.313     | ug/l   | 99 |
| 20) Methylene Chloride        | 2.800  | 84  | 433    | Below Cal | #      | 86 |
| 25) 2-Butanone                | 4.587  | 43  | 1728   | 1.145     | ug/l   | 92 |
| 30) Chloroform                | 5.105  | 83  | 3953   | 1.195     | ug/l   | 97 |
| 31) Cyclohexane               | 5.550  | 56  | 3678   | 1.292     | ug/l # | 53 |
| 36) 1,1-Dichloropropene       | 5.556  | 75  | 11939  | 4.812     | ug/l # | 50 |
| 38) Carbon Tetrachloride      | 5.562  | 117 | 14681  | 5.319     | ug/l # | 15 |
| 47) Bromodichloromethane      | 7.830  | 83  | 2414   | 0.883     | ug/l # | 95 |
| 52) Toluene                   | 8.720  | 92  | 1021   | 0.234     | ug/l   | 88 |
| 60) Dibromochloromethane      | 9.525  | 129 | 1551   | 0.764     | ug/l   | 97 |
| 71) Bromoform                 | 10.805 | 173 | 546    | 0.387     | ug/l # | 97 |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75  | 53176  | 24.263    | ug/l # | 39 |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75  | 53176  | 70.193    | ug/l # | 10 |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX123121\  
Data File : VX026170.D  
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Operator : JC/MD  
Sample : M5207-03  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

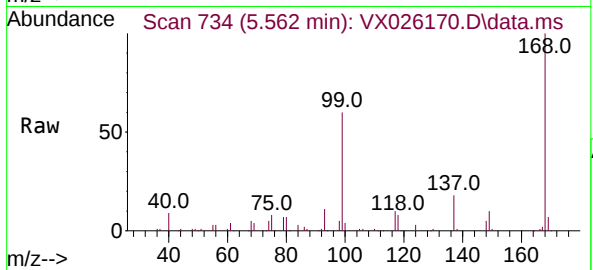
Quant Time: Dec 31 07:09:25 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X123021W.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 30 08:02:21 2021  
Response via : Initial Calibration



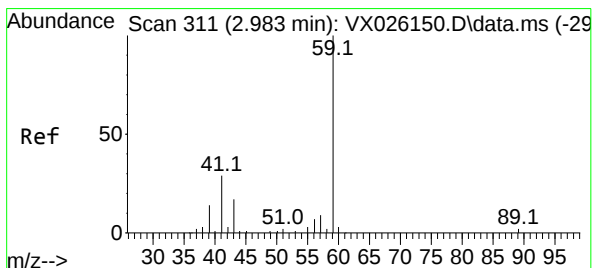
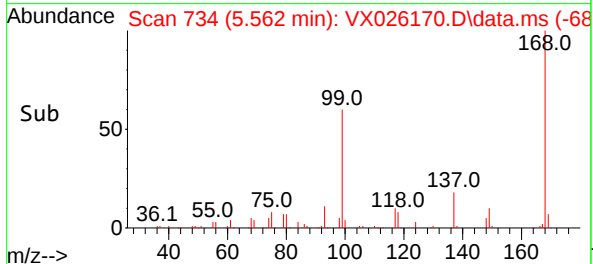
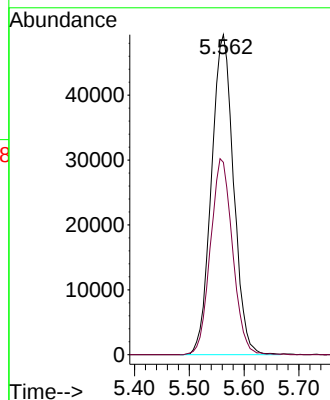


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

Instrument :  
MSVOA\_X  
ClientSampleId :

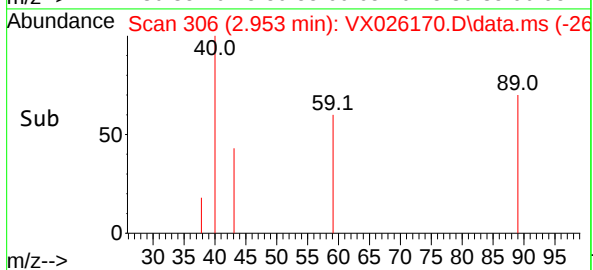
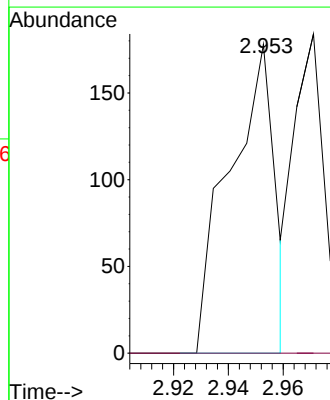
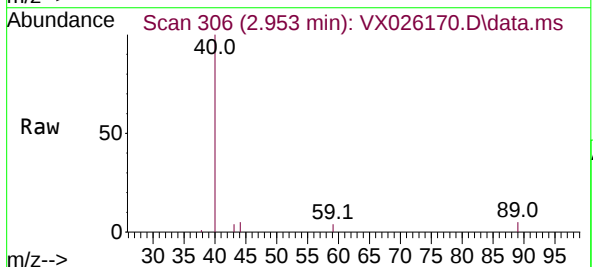


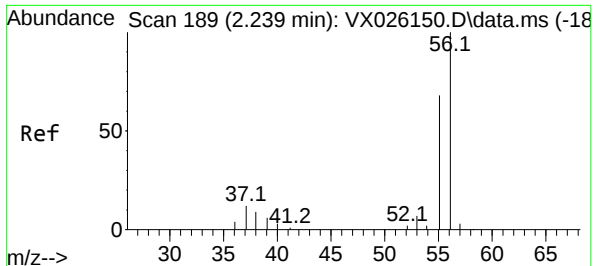
Tgt Ion:168 Resp: 138222  
Ion Ratio Lower Upper  
168 100  
99 60.1 45.8 68.8



#11  
Tert butyl alcohol  
Concen: 0.516 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.030 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

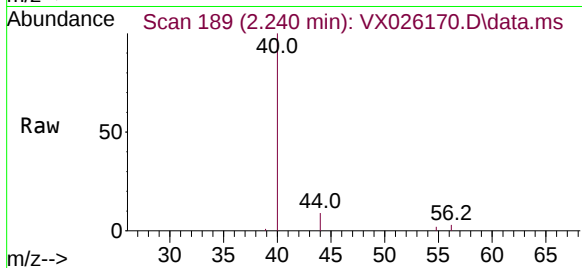
Tgt Ion: 59 Resp: 206  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#



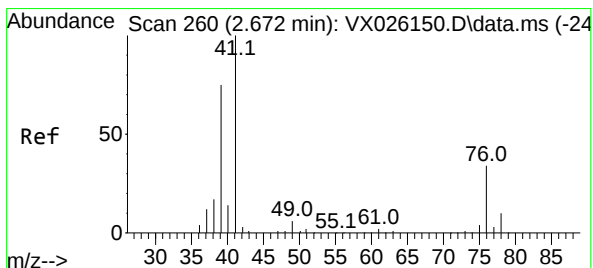
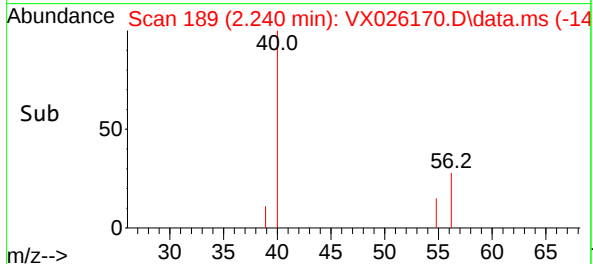
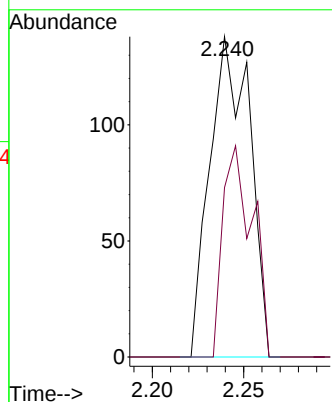


#13  
Acrolein  
Concen: 1.477 ug/l  
RT: 2.240 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

Instrument :  
MSVOA\_X  
ClientSampleId :

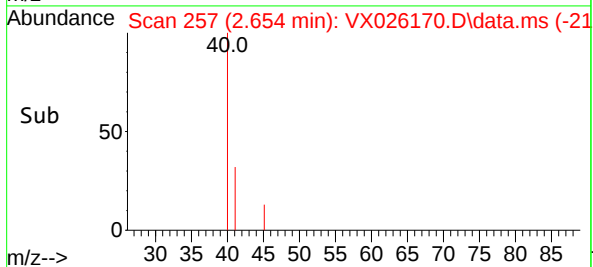
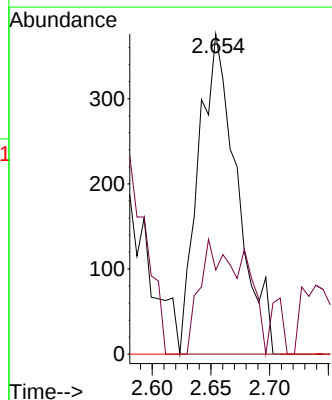
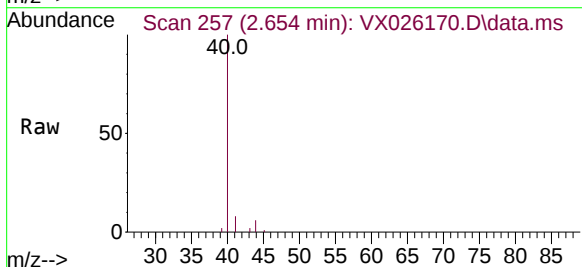


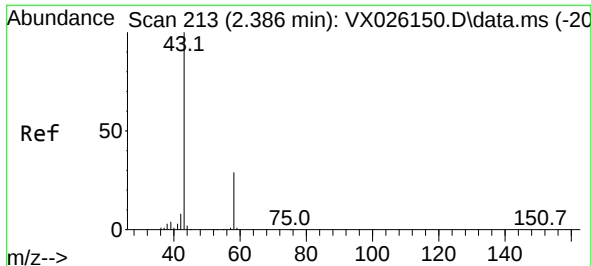
Tgt Ion: 56 Resp: 211  
Ion Ratio Lower Upper  
56 100  
55 48.8 57.4 86.2#



#14  
Allyl chloride  
Concen: 0.285 ug/l  
RT: 2.654 min Scan# 257  
Delta R.T. -0.018 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

Tgt Ion: 41 Resp: 861  
Ion Ratio Lower Upper  
41 100  
39 29.5 55.4 83.0#  
76 0.0 27.6 41.4#

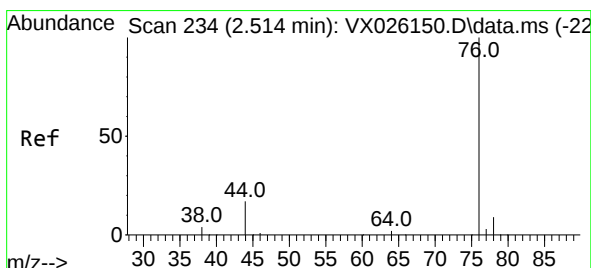
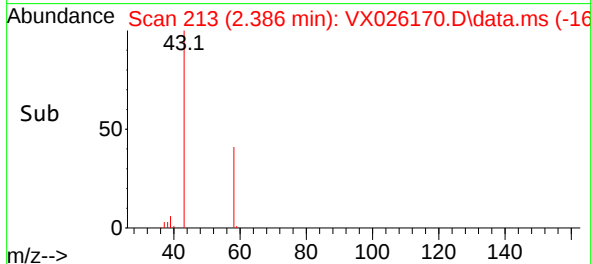
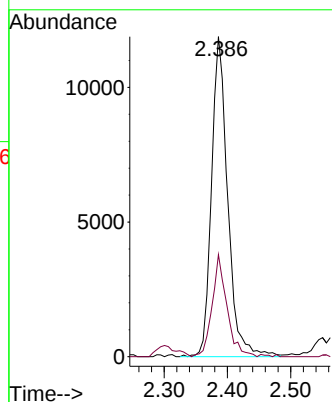
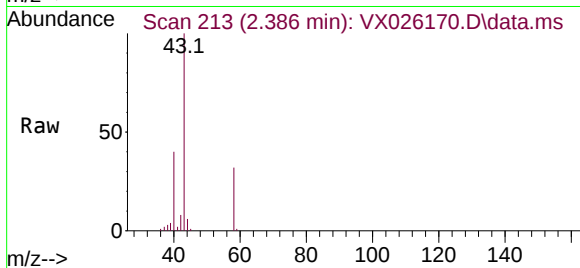




#16  
Acetone  
Concen: 19.503 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

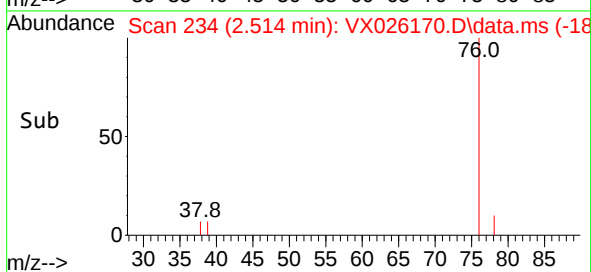
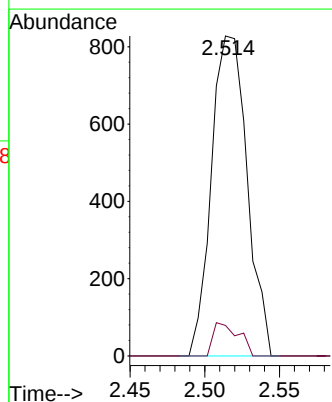
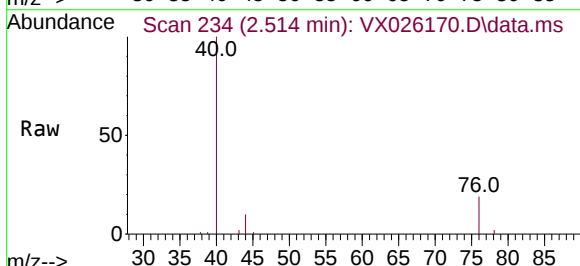
Instrument :  
MSVOA\_X  
ClientSampleId :

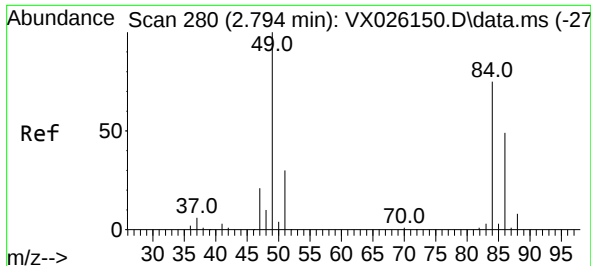
Tgt Ion: 43 Resp: 21130  
Ion Ratio Lower Upper  
43 100  
58 31.9 24.8 37.2



#17  
Carbon Disulfide  
Concen: 0.313 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. -0.000 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

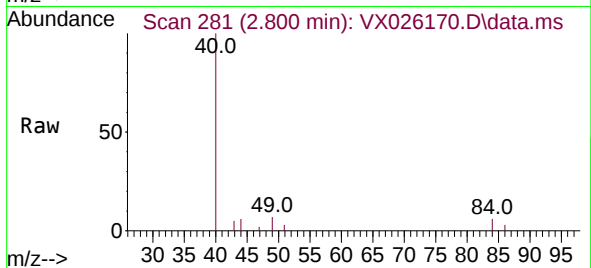
Tgt Ion: 76 Resp: 1374  
Ion Ratio Lower Upper  
76 100  
78 9.5 7.2 10.8



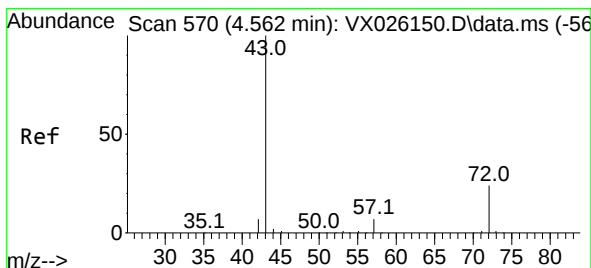
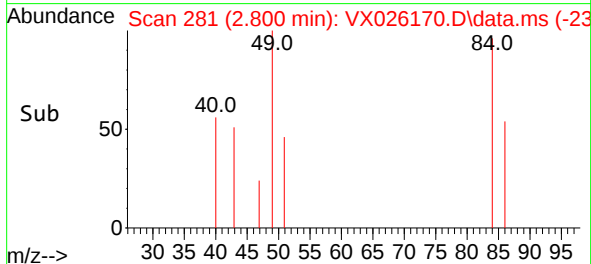
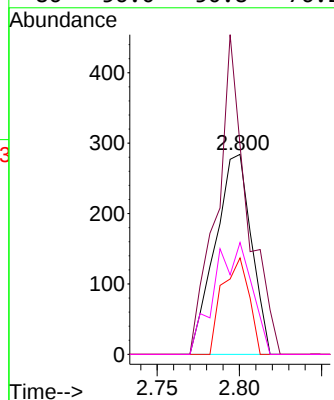


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.800 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

Instrument :  
MSVOA\_X  
ClientSampleId :

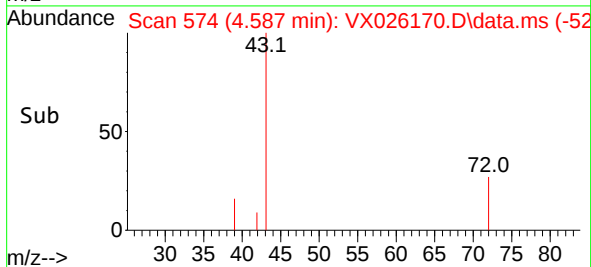
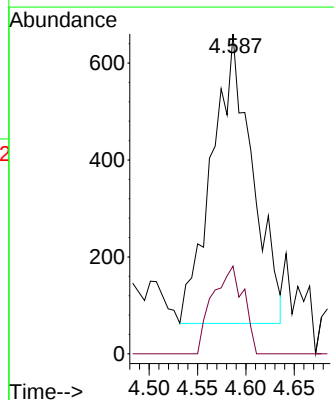
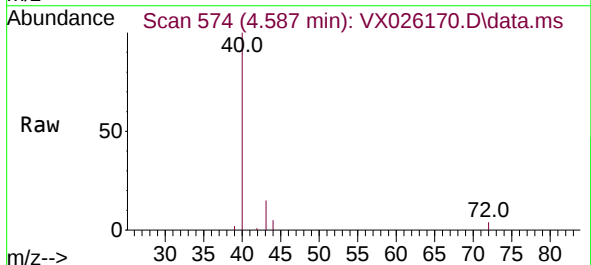


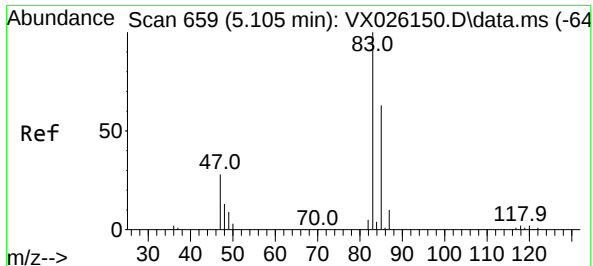
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 433   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 104.6 | 97.1  | 145.7 |
| 51       | 48.2  | 29.3  | 43.9# |
| 86       | 56.0  | 50.8  | 76.2  |



#25  
2-Butanone  
Concen: 1.145 ug/l  
RT: 4.587 min Scan# 574  
Delta R.T. 0.025 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1728  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 30.3  | 21.0  | 31.4  |





#30

Chloroform

Concen: 1.195 ug/l

RT: 5.105 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX026170.D

Acq: 30 Dec 2021 16:00

Instrument :

MSVOA\_X

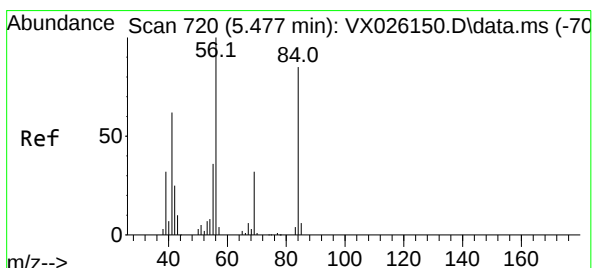
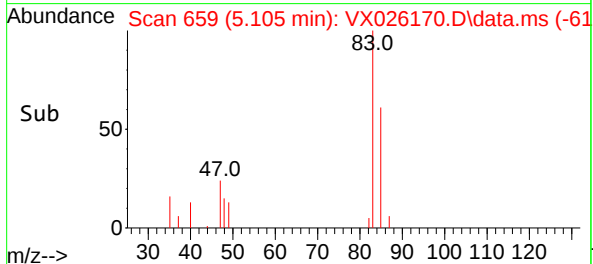
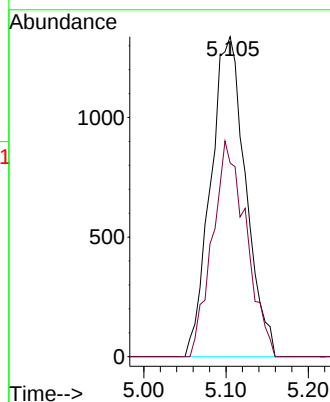
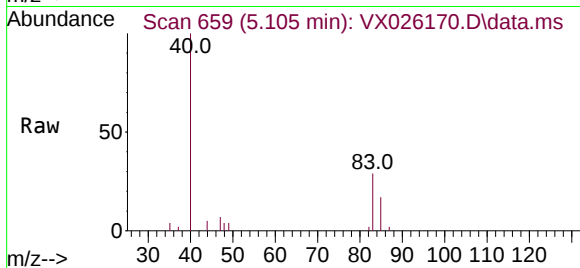
ClientSampleId :

Tgt Ion: 83 Resp: 3953

Ion Ratio Lower Upper

83 100

85 60.5 50.6 75.8



#31

Cyclohexane

Concen: 1.292 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.073 min

Lab File: VX026170.D

Acq: 30 Dec 2021 16:00

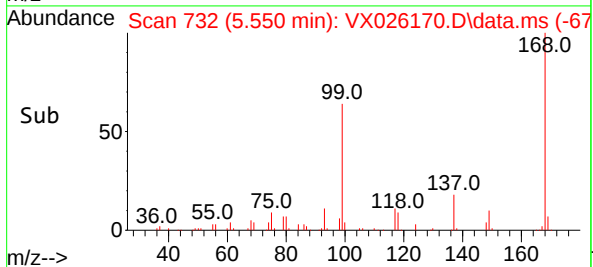
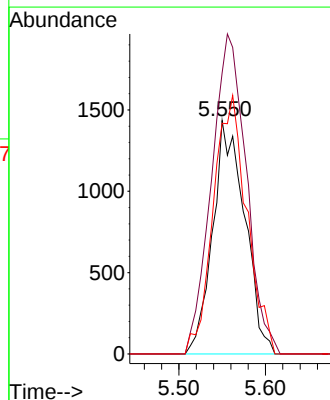
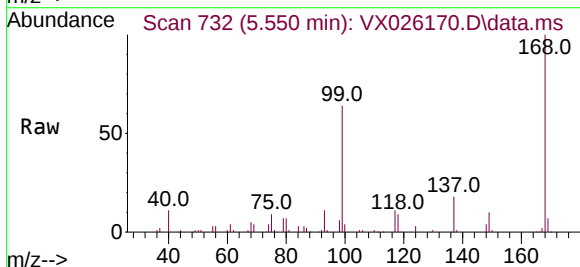
Tgt Ion: 56 Resp: 3678

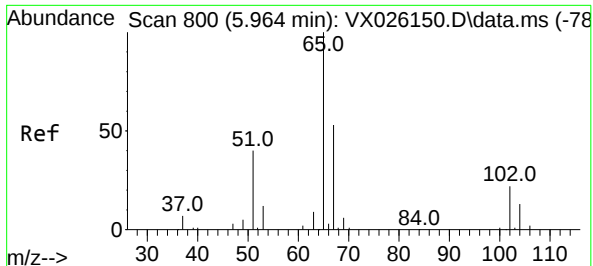
Ion Ratio Lower Upper

56 100

69 120.3 23.9 35.9#

84 98.8 73.2 109.8





#33

1,2-Dichloroethane-d4

Concen: 51.063 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX026170.D

Acq: 30 Dec 2021 16:00

Instrument :

MSVOA\_X

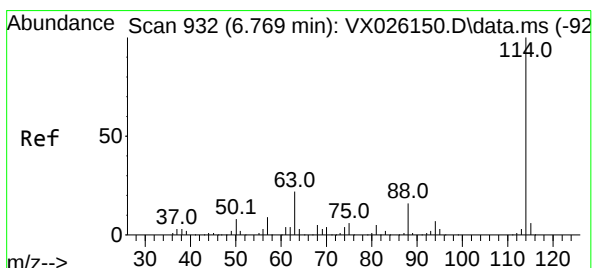
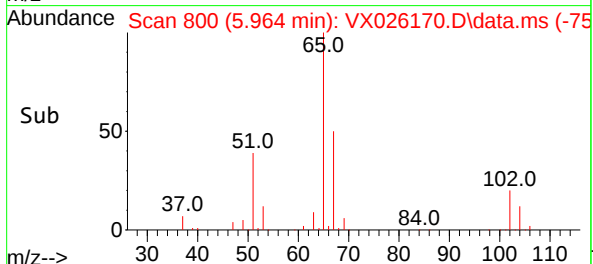
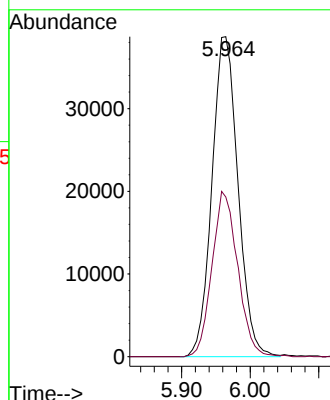
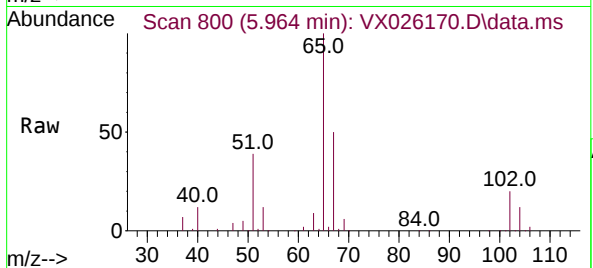
ClientSampleId :

Tgt Ion: 65 Resp: 102109

Ion Ratio Lower Upper

65 100

67 51.0 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX026170.D

Acq: 30 Dec 2021 16:00

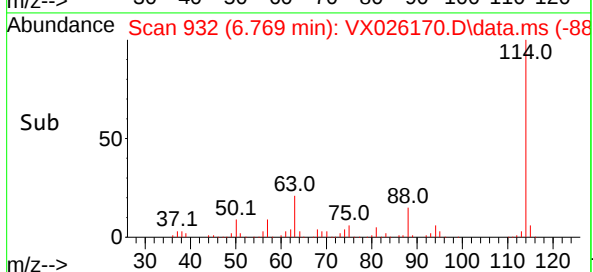
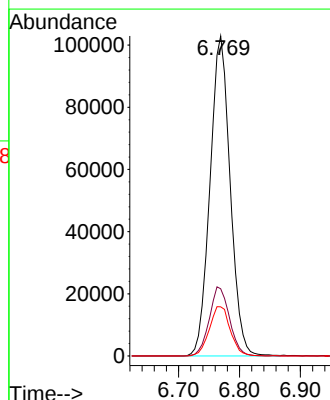
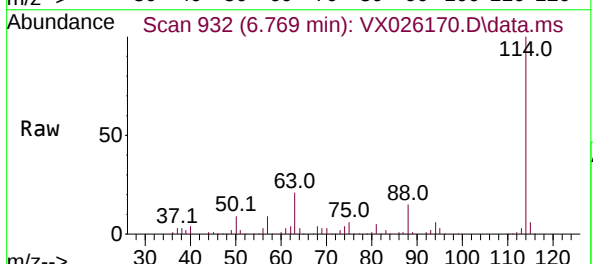
Tgt Ion: 114 Resp: 236612

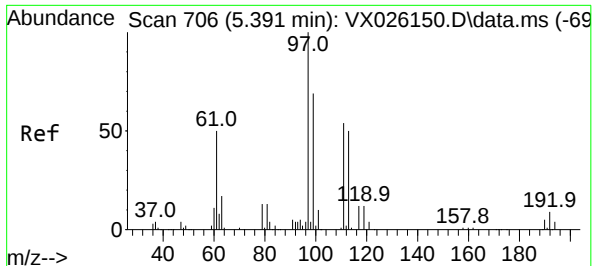
Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.0

88 15.4 0.0 30.6





#35

Dibromofluoromethane

Concen: 52.714 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

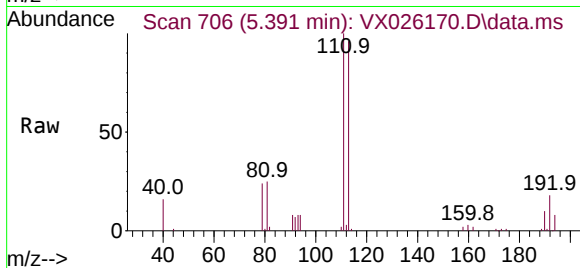
Lab File: VX026170.D

Acq: 30 Dec 2021 16:00

Instrument :

MSVOA\_X

ClientSampleId :



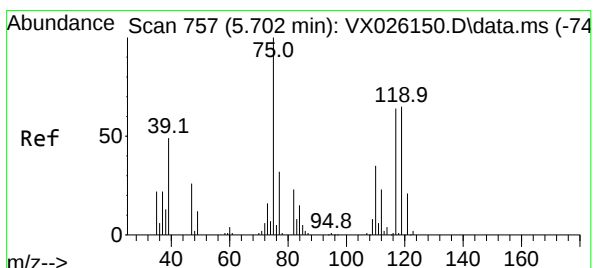
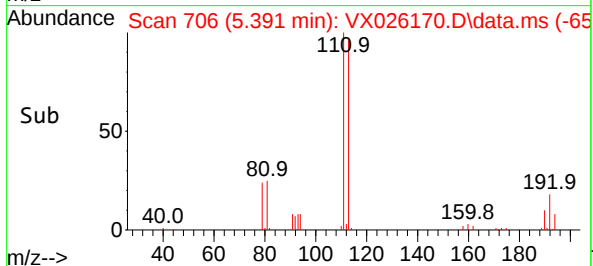
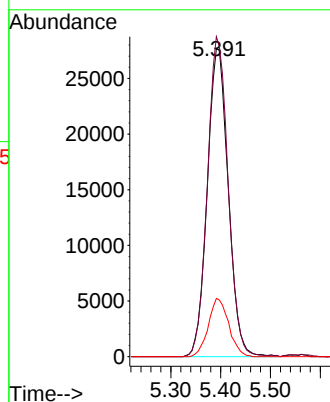
Tgt Ion:113 Resp: 81090

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

192 18.3 15.0 22.4



#36

1,1-Dichloropropene

Concen: 4.812 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.146 min

Lab File: VX026170.D

Acq: 30 Dec 2021 16:00

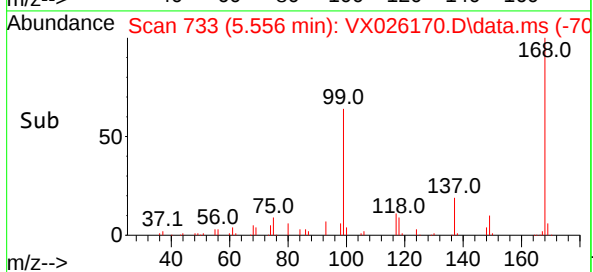
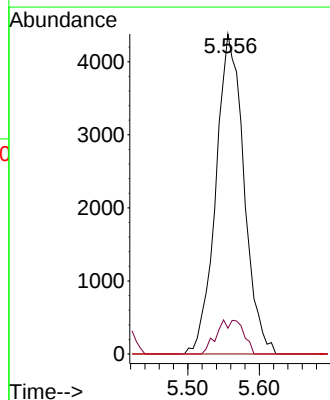
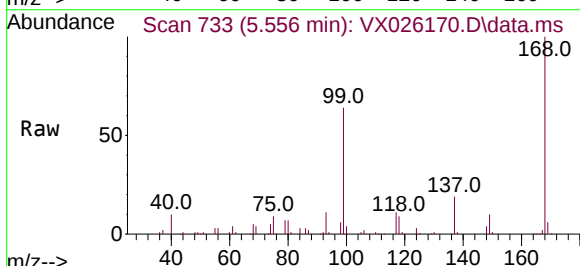
Tgt Ion: 75 Resp: 11939

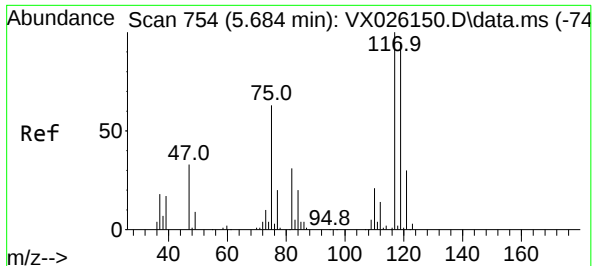
Ion Ratio Lower Upper

75 100

110 10.1 18.2 54.6#

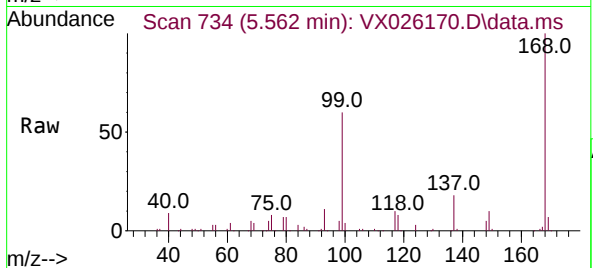
77 0.0 24.7 37.1#



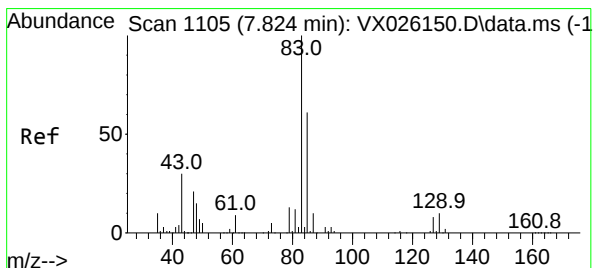
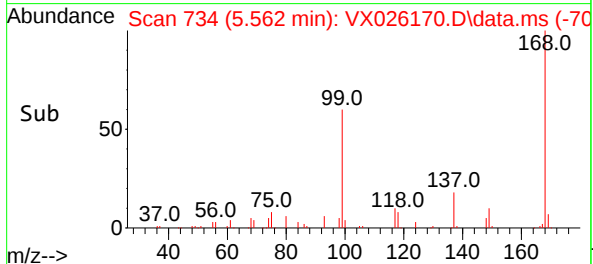
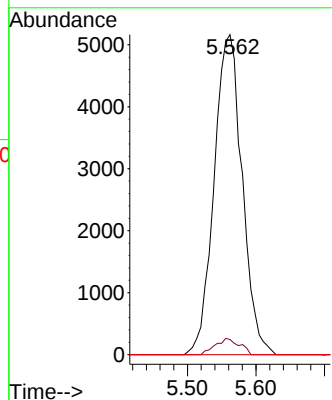


#38  
Carbon Tetrachloride  
Concen: 5.319 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

Instrument :  
MSVOA\_X  
ClientSampleId :

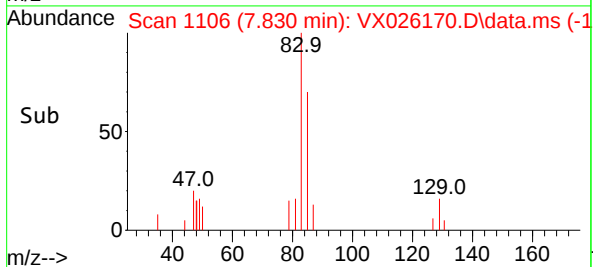
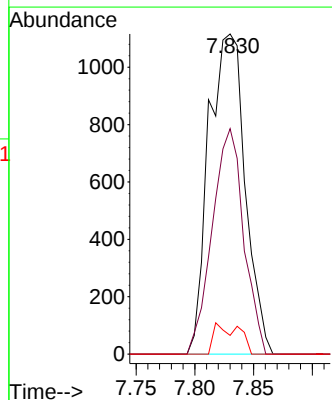
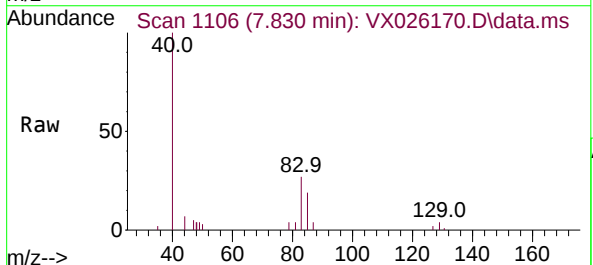


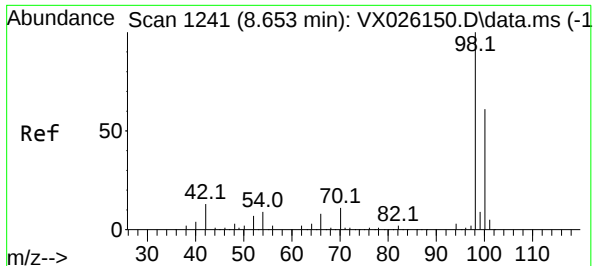
Tgt Ion:117 Resp: 14681  
Ion Ratio Lower Upper  
117 100  
119 4.7 77.2 115.8#  
121 0.0 23.8 35.8#



#47  
Bromodichloromethane  
Concen: 0.883 ug/l  
RT: 7.830 min Scan# 1106  
Delta R.T. 0.006 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

Tgt Ion: 83 Resp: 2414  
Ion Ratio Lower Upper  
83 100  
85 70.4 53.5 80.3  
127 5.8 6.6 10.0#

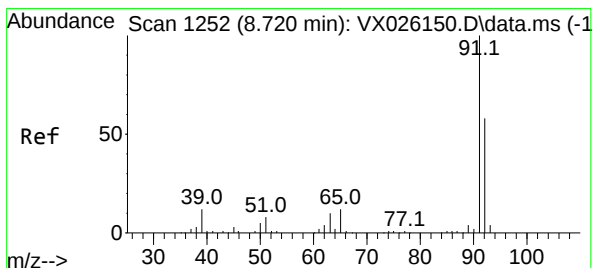
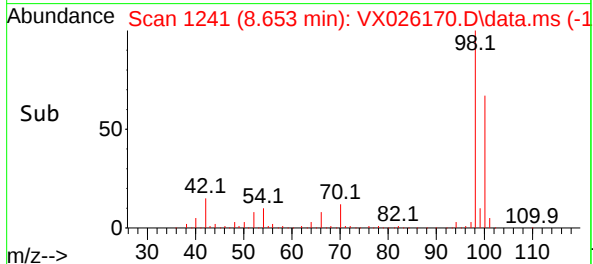
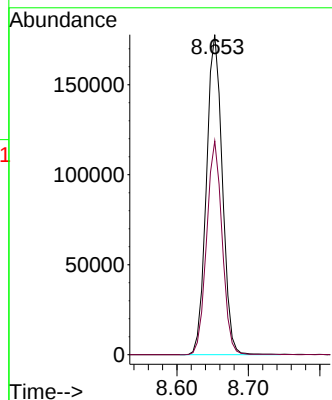
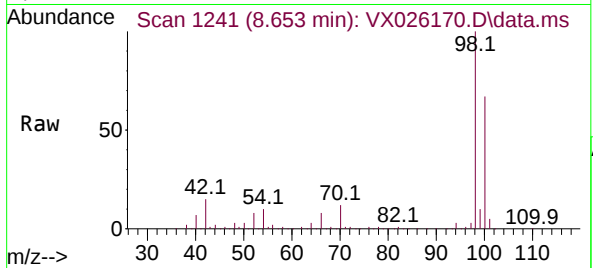




#50  
Toluene-d8  
Concen: 47.971 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

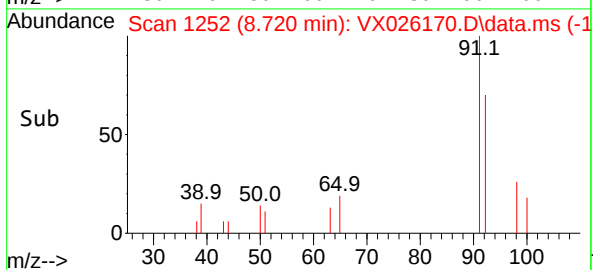
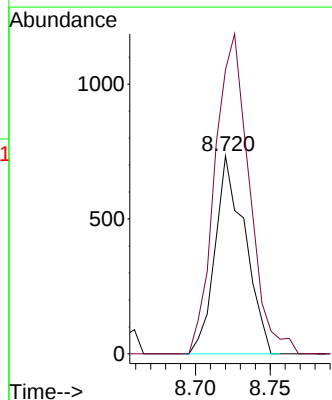
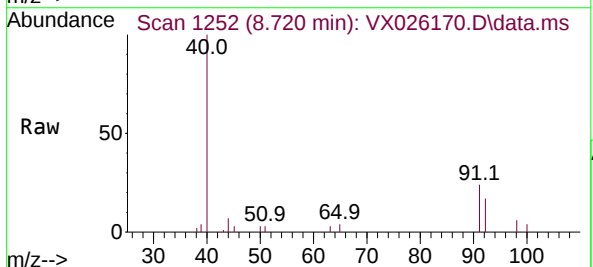
Instrument :  
MSVOA\_X  
ClientSampleId :

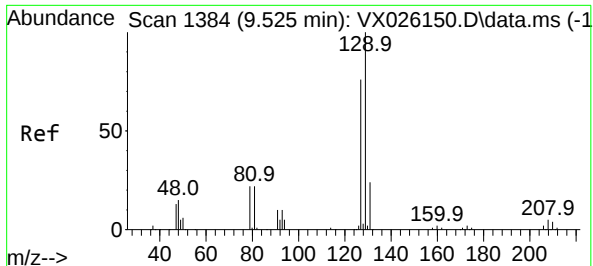
Tgt Ion: 98 Resp: 274481  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.6 78.8



#52  
Toluene  
Concen: 0.234 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. 0.000 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

Tgt Ion: 92 Resp: 1021  
Ion Ratio Lower Upper  
92 100  
91 185.8 136.0 204.0

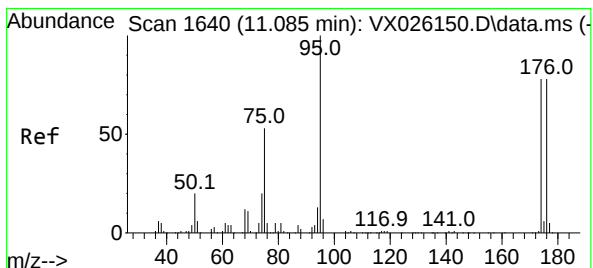
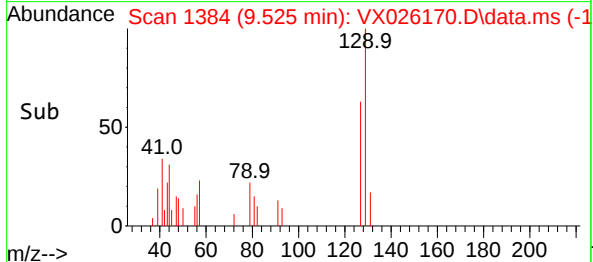
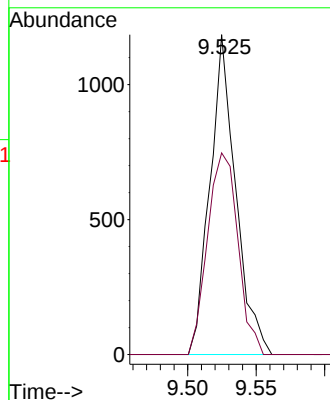
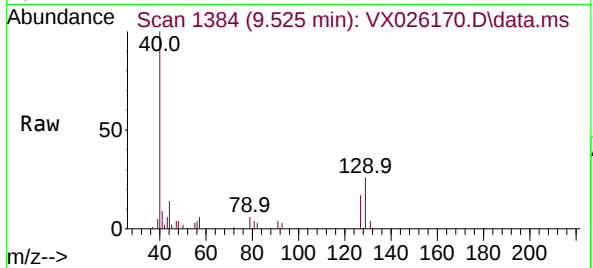




#60  
Dibromochloromethane  
Concen: 0.764 ug/l  
RT: 9.525 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

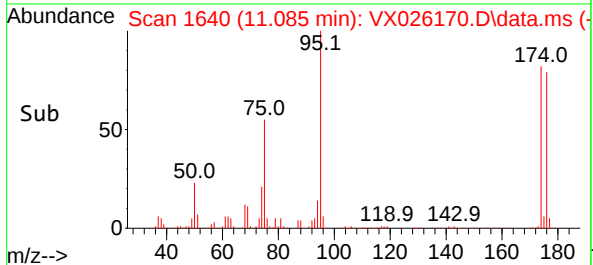
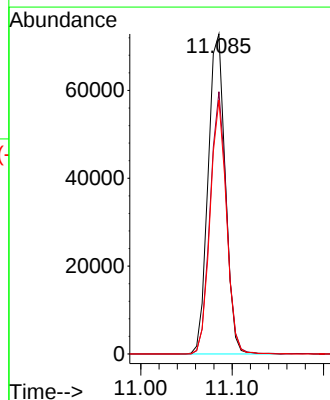
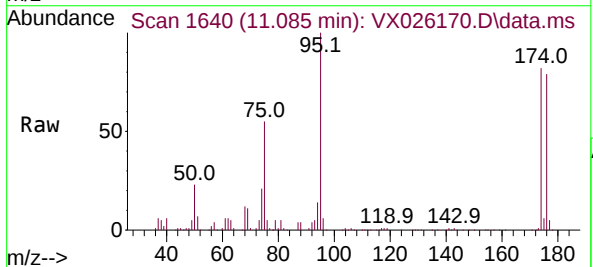
Instrument :  
MSVOA\_X  
ClientSampleId :

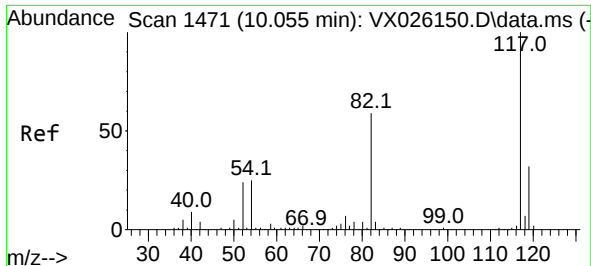
Tgt Ion:129 Resp: 1551  
Ion Ratio Lower Upper  
129 100  
127 74.3 38.6 115.7



#62  
4-Bromofluorobenzene  
Concen: 46.703 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

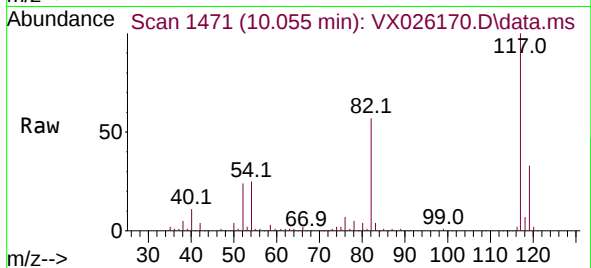
Tgt Ion: 95 Resp: 95129  
Ion Ratio Lower Upper  
95 100  
174 78.3 0.0 157.4  
176 75.3 0.0 154.6



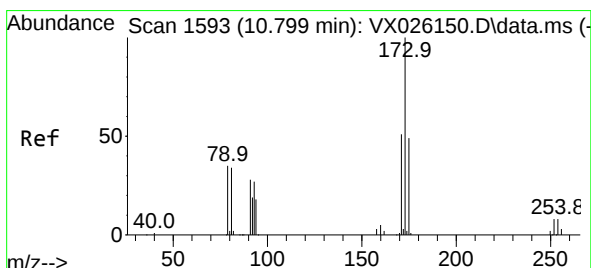
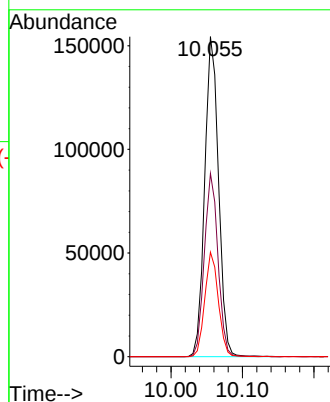
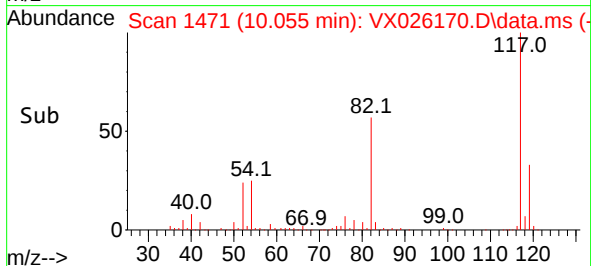


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

Instrument :  
MSVOA\_X  
ClientSampleId :

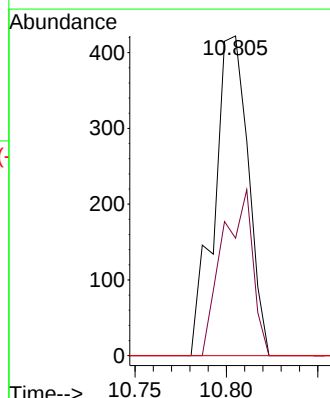
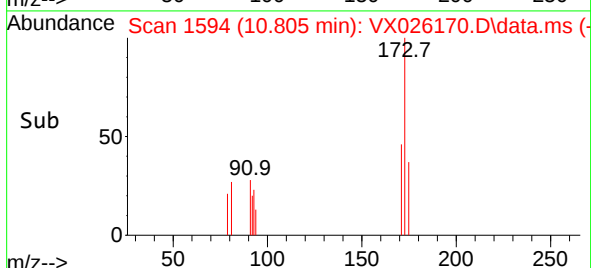
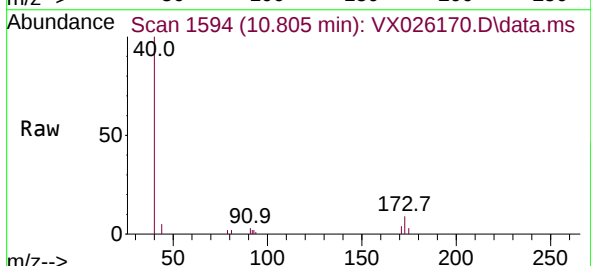


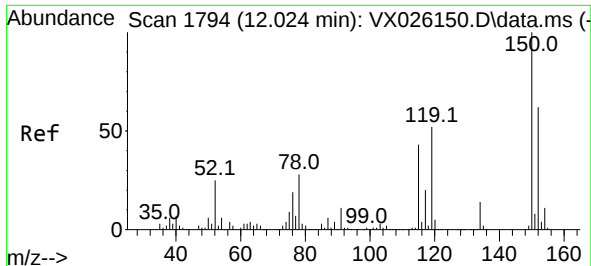
Tgt Ion:117 Resp: 207644  
Ion Ratio Lower Upper  
117 100  
82 57.3 43.8 65.6  
119 32.6 25.2 37.8



#71  
Bromoform  
Concen: 0.387 ug/l  
RT: 10.805 min Scan# 1594  
Delta R.T. 0.006 min  
Lab File: VX026170.D  
Acq: 30 Dec 2021 16:00

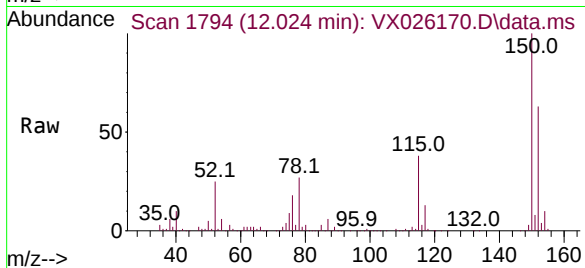
Tgt Ion:173 Resp: 546  
Ion Ratio Lower Upper  
173 100  
175 46.5 24.4 73.4  
254 0.0 0.1 0.1#



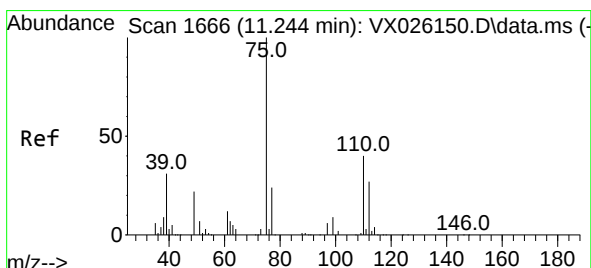
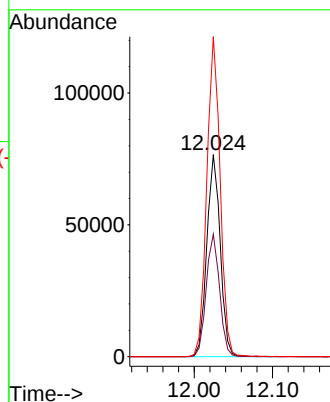
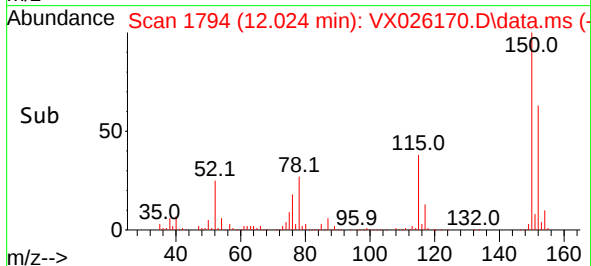


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX026170.D  
 Acq: 30 Dec 2021 16:00

Instrument :  
 MSVOA\_X  
 ClientSampleId :

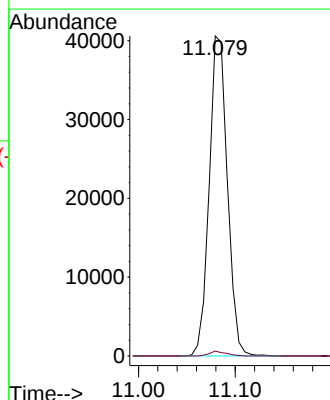
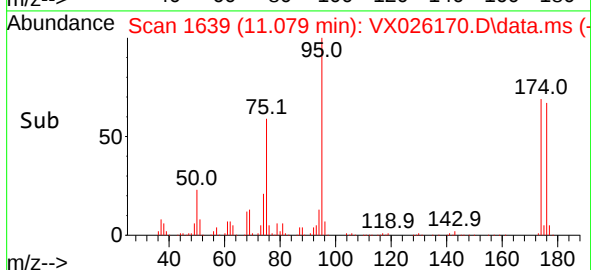
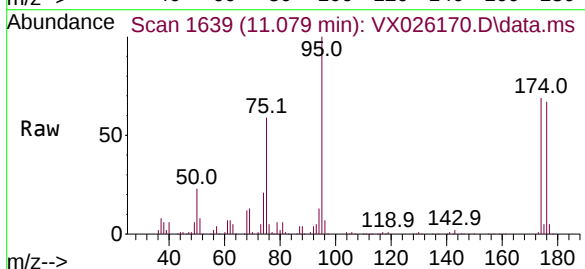


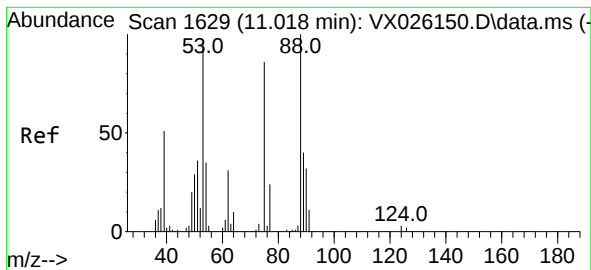
Tgt Ion:152 Resp: 90798  
 Ion Ratio Lower Upper  
 152 100  
 115 60.4 41.3 123.9  
 150 157.5 0.0 351.8



#76  
 1,2,3-Trichloropropane  
 Concen: 24.263 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.165 min  
 Lab File: VX026170.D  
 Acq: 30 Dec 2021 16:00

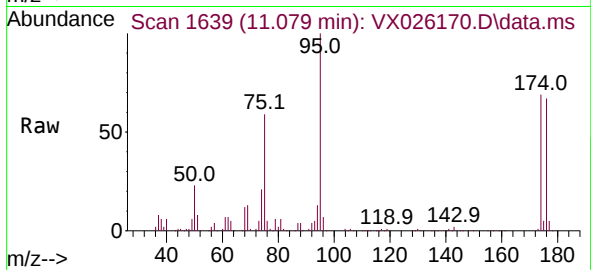
Tgt Ion: 75 Resp: 53176  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 19.0 57.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 70.193 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. 0.061 min  
 Lab File: VX026170.D  
 Acq: 30 Dec 2021 16:00

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 53176  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 79.5 119.3#  
 89 0.1 38.3 57.5#

