

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051321\  
 Data File : VX021944.D  
 Acq On : 12 May 2021 22:47  
 Operator : JC/MD  
 Sample : M2352-02 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 14B-2

Quant Time: May 13 06:28:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X051321W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu May 13 06:11:35 2021  
 Response via : Initial Calibration

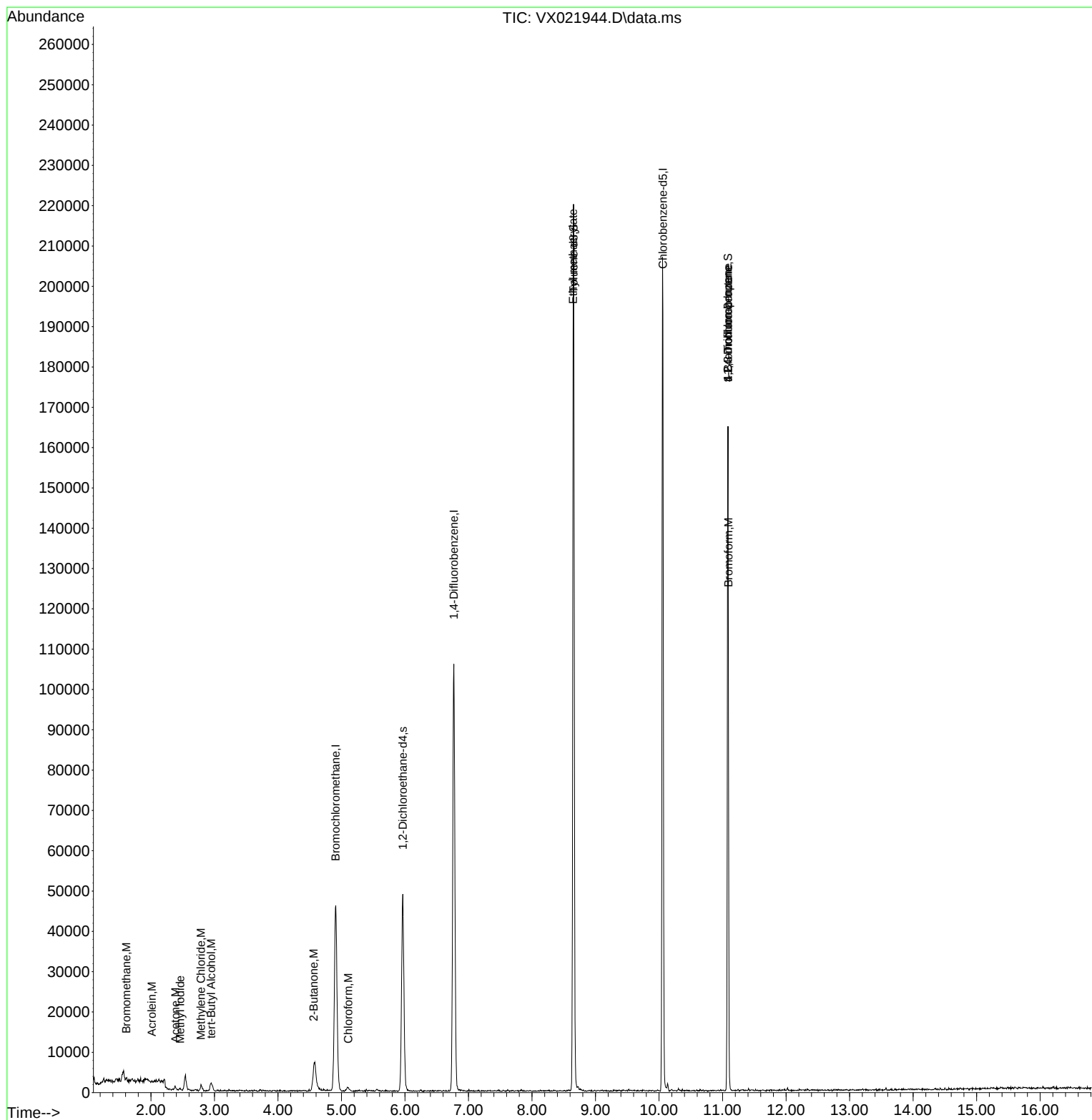
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.910  | 128   | 18812    | 30.00    | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.769  | 114   | 107161   | 30.00    | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.061 | 117   | 94288    | 30.00    | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.964  | 65    | 43964    | 30.34    | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 101.13%  |
| 60) 4-Bromofluorobenzene    | 11.085 | 95    | 46060    | 29.44    | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 98.13%   |
| 63) Toluene-d8              | 8.653  | 98    | 128753   | 29.88    | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 99.60%   |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 5) Bromomethane             | 1.611  | 94    | 174      | 0.22     | ug/l # | 67       |
| 11) Methyl Iodide           | 2.459  | 142   | 385      | 0.35     | ug/l # | 41       |
| 13) Acrolein                | 2.014  | 56    | 104      | 0.43     | ug/l   | 83       |
| 15) Acetone                 | 2.386  | 58    | 297      | 1.58     | ug/l # | 46       |
| 18) Methylene Chloride      | 2.788  | 84    | 690      | 0.52     | ug/l # | 81       |
| 23) tert-Butyl Alcohol      | 2.947  | 59    | 1725     | 5.62     | ug/l # | 100      |
| 25) Chloroform              | 5.105  | 83    | 1201     | 0.53     | ug/l   | 97       |
| 30) 2-Butanone              | 4.562  | 43    | 334      | 0.35     | ug/l # | 55       |
| 51) Ethyl methacrylate      | 8.647  | 69    | 540      | 0.26     | ug/l   | 91       |
| 56) Bromoform               | 11.091 | 173   | 239      | 0.30     | ug/l # | 1        |
| 72) 1,2,3-Trichloropropane  | 11.085 | 75    | 23091    | 13.72    | ug/l   | 65       |
| 77) t-1,4-Dichloro-2-butene | 11.085 | 75    | 23091    | 33.85    | ug/l # | 17       |
| -----                       |        |       |          |          |        |          |

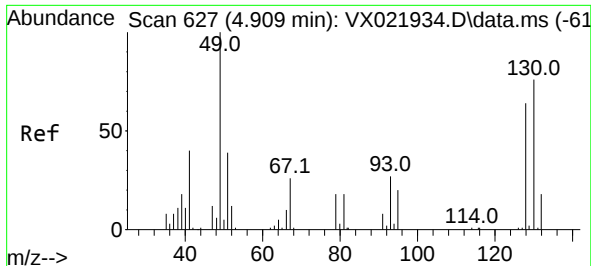
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051321\  
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Sample : M2352-02 5X  
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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
14B-2

Quant Time: May 13 06:28:00 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X051321W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu May 13 06:11:35 2021  
Response via : Initial Calibration

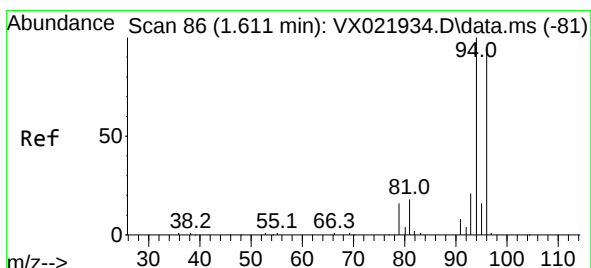
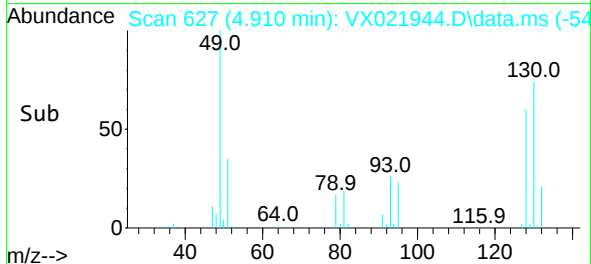
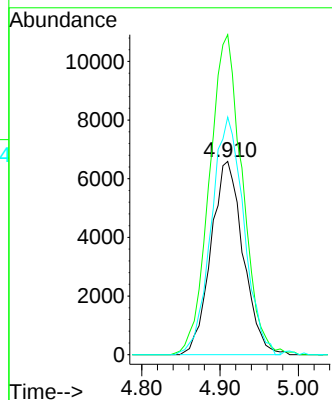
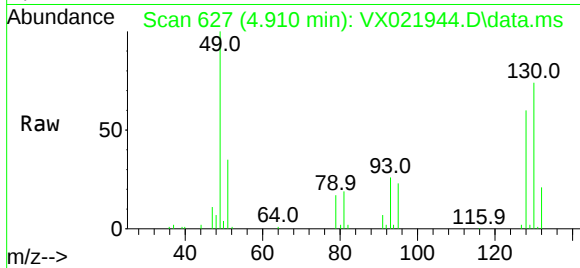




#1  
Bromochloromethane  
Concen: 30.00 ug/l  
RT: 4.910 min Scan# 627  
Delta R.T. 0.001 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

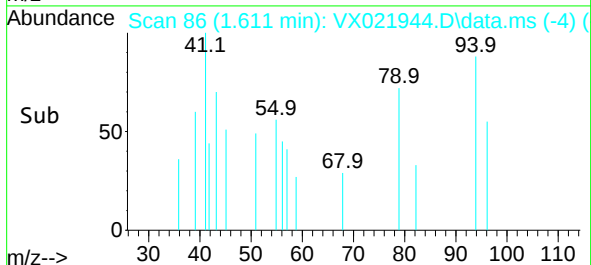
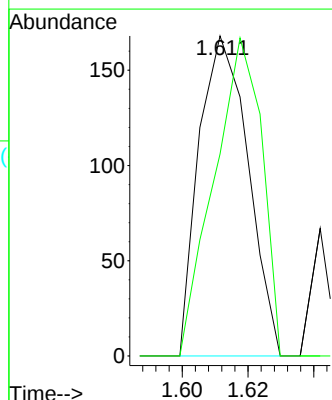
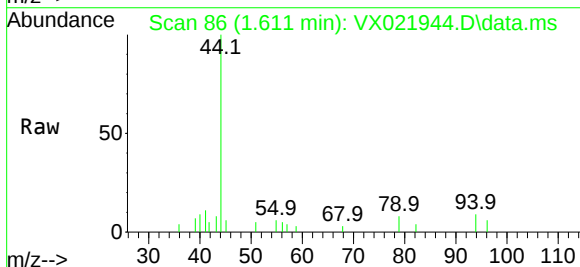
Instrument :  
MSVOA\_X  
ClientSampleId :  
14B-2

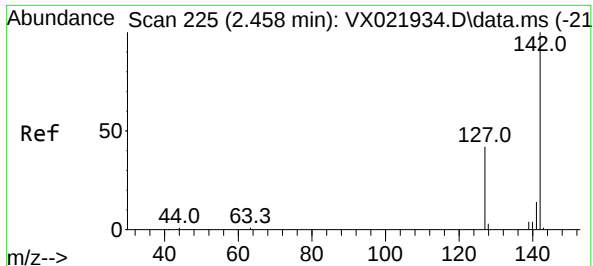
Tgt Ion:128 Resp: 18812  
Ion Ratio Lower Upper  
128 100  
49 169.1 0.0 442.5  
130 124.8 0.0 323.3



#5  
Bromomethane  
Concen: 0.22 ug/l  
RT: 1.611 min Scan# 86  
Delta R.T. 0.000 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

Tgt Ion: 94 Resp: 174  
Ion Ratio Lower Upper  
94 100  
96 63.1 76.1 114.1#





#11

Methyl Iodide

Concen: 0.35 ug/l

RT: 2.459 min Scan# 225

Delta R.T. 0.000 min

Lab File: VX021944.D

Acq: 12 May 2021 22:47

Tgt Ion:142 Resp: 385

Ion Ratio Lower Upper

142 100

127 0.0 21.3 63.7#

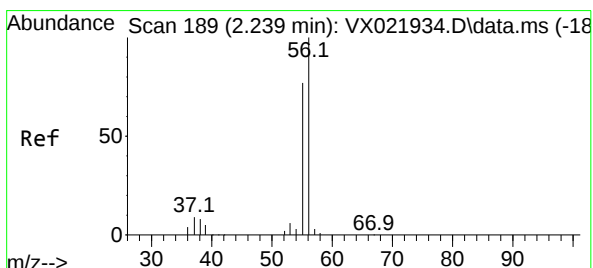
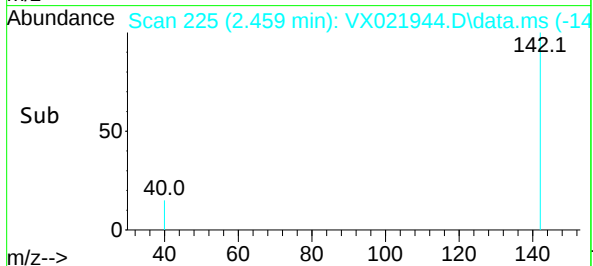
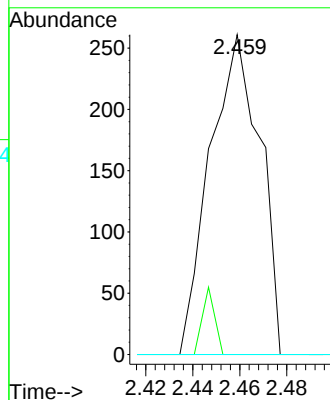
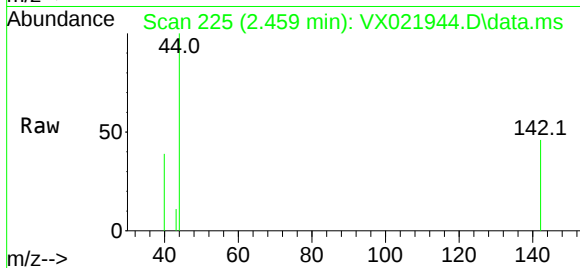
141 0.0 7.2 21.6#

Instrument :

MSVOA\_X

ClientSampled :

14B-2



#13

Acrolein

Concen: 0.43 ug/l

RT: 2.014 min Scan# 152

Delta R.T. -0.225 min

Lab File: VX021944.D

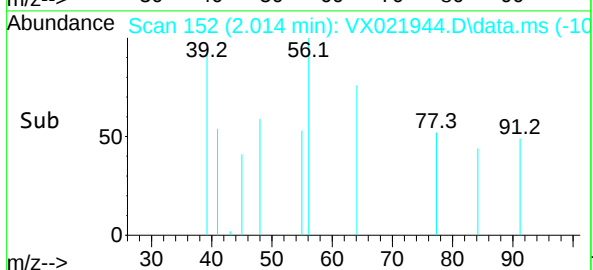
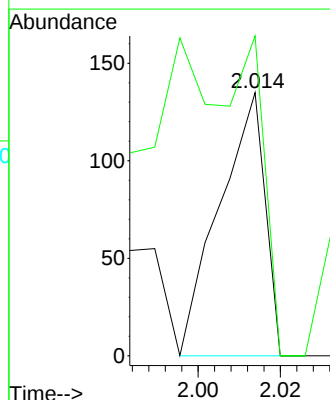
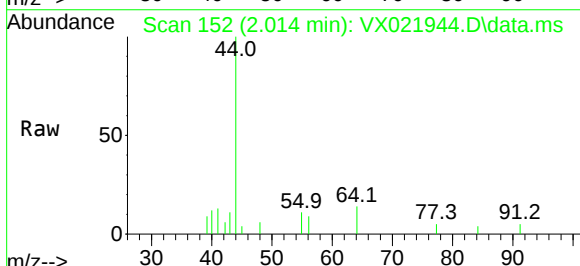
Acq: 12 May 2021 22:47

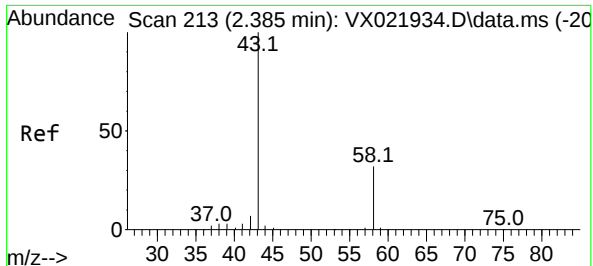
Tgt Ion: 56 Resp: 104

Ion Ratio Lower Upper

56 100

55 57.7 57.6 86.4

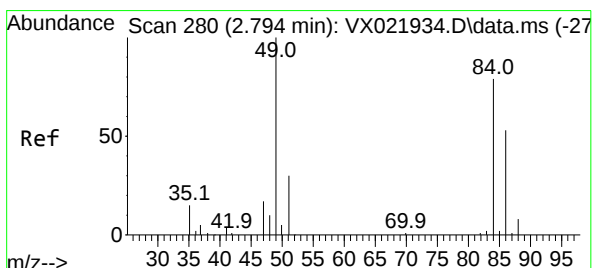
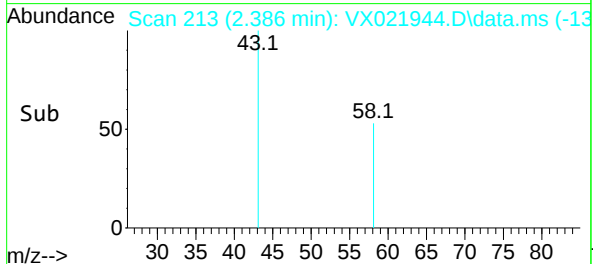
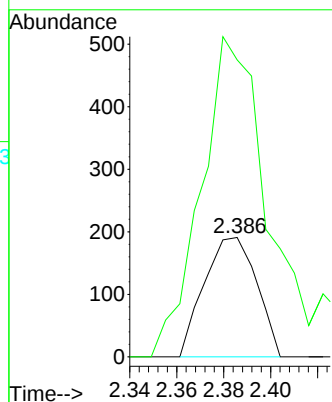
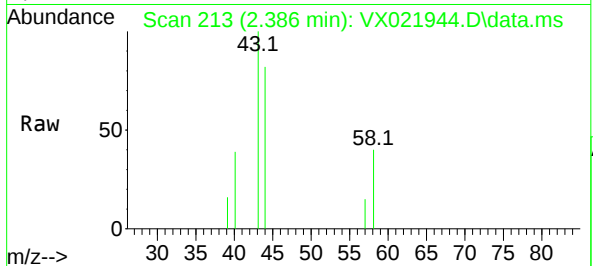




#15  
Acetone  
Concen: 1.58 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. 0.001 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

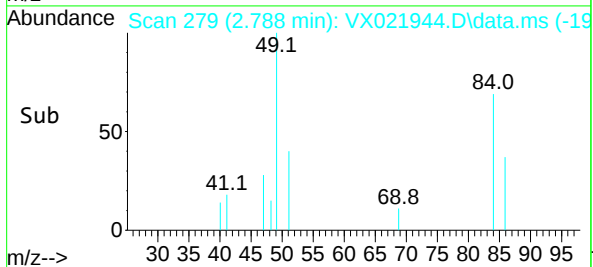
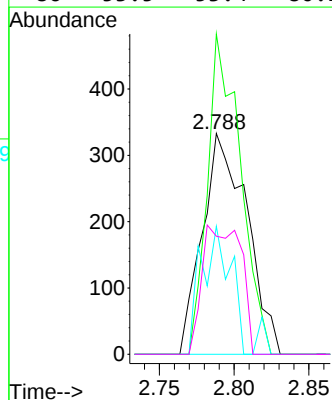
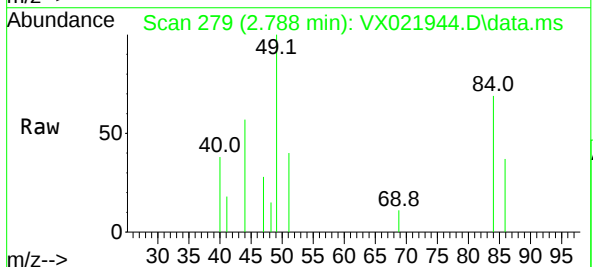
Instrument :  
MSVOA\_X  
ClientSampled :  
14B-2

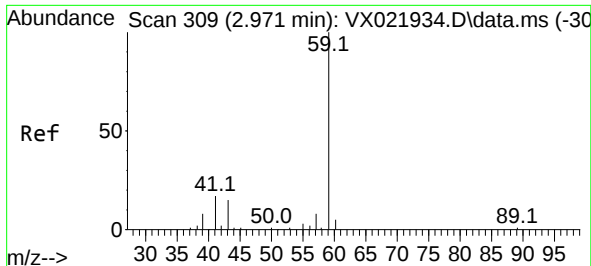
Tgt Ion: 58 Resp: 297  
Ion Ratio Lower Upper  
58 100  
43 204.2 249.5 374.3#



#18  
Methylene Chloride  
Concen: 0.52 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. -0.006 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

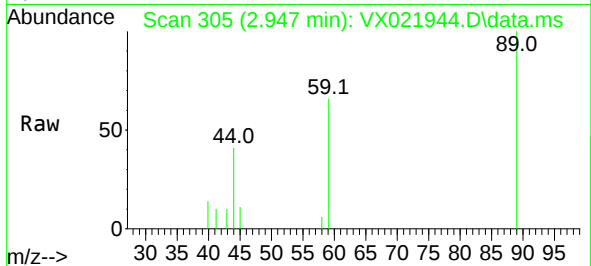
Tgt Ion: 84 Resp: 690  
Ion Ratio Lower Upper  
84 100  
49 145.0 101.6 152.4  
51 58.0 30.5 45.7#  
86 53.5 53.4 80.2



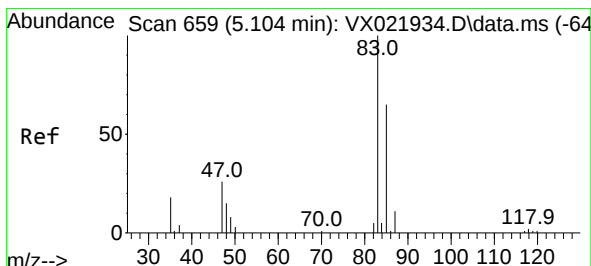
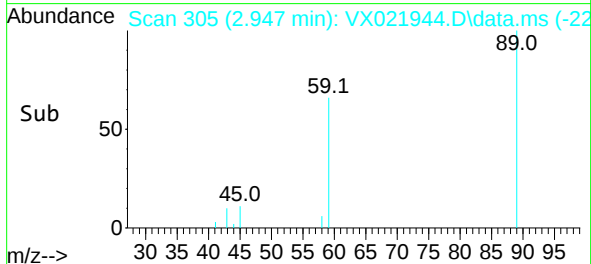
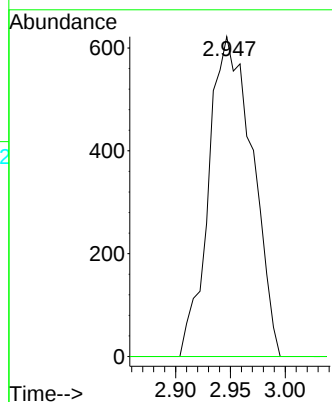


#23  
tert-Butyl Alcohol  
Concen: 5.62 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. -0.024 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

Instrument :  
MSVOA\_X  
ClientSampled :  
14B-2

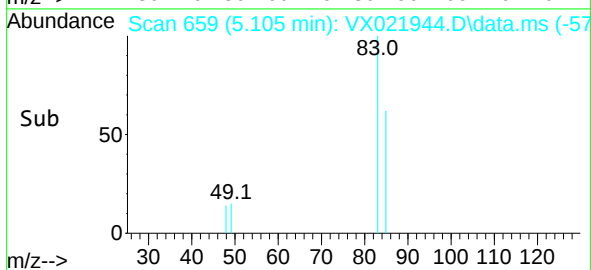
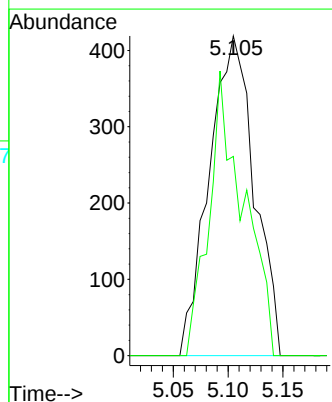
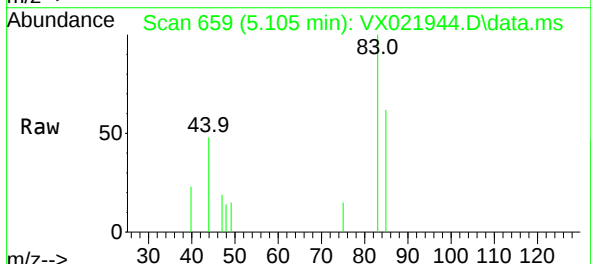


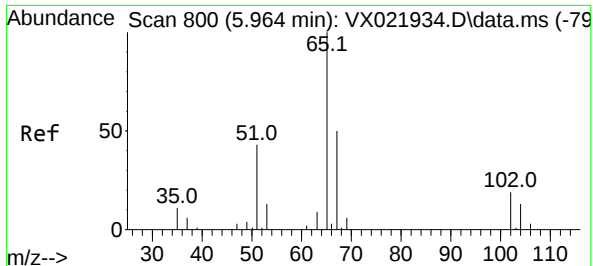
Tgt Ion: 59 Resp: 1725  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0



#25  
Chloroform  
Concen: 0.53 ug/l  
RT: 5.105 min Scan# 659  
Delta R.T. 0.000 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

Tgt Ion: 83 Resp: 1201  
Ion Ratio Lower Upper  
83 100  
85 62.3 51.9 77.9





#27

1,2-Dichloroethane-d4

Concen: 30.34 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX021944.D

Acq: 12 May 2021 22:47

Tgt Ion: 65 Resp: 43964

Ion Ratio Lower Upper

65 100

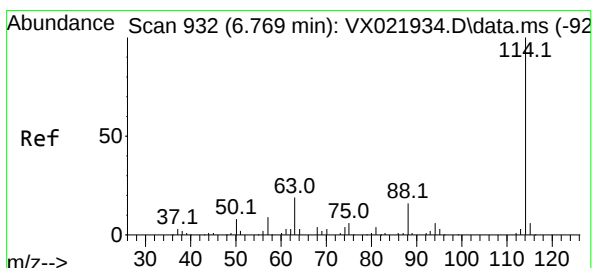
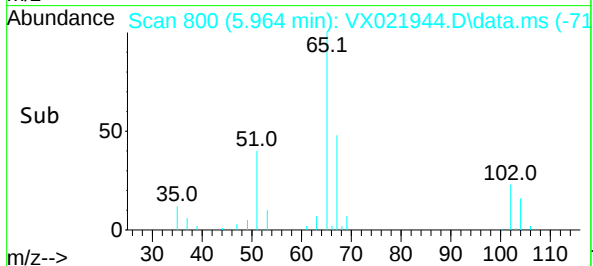
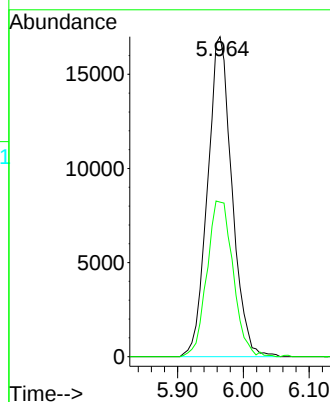
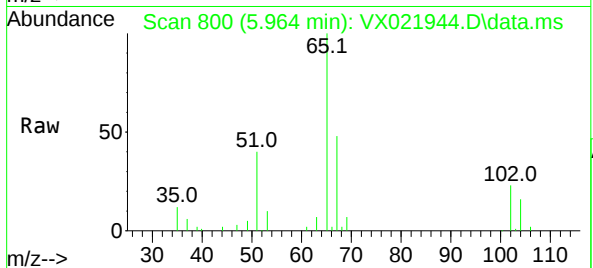
67 51.6 41.5 62.3

Instrument :

MSVOA\_X

ClientSampled :

14B-2



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX021944.D

Acq: 12 May 2021 22:47

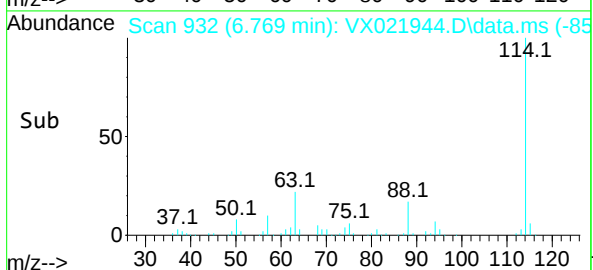
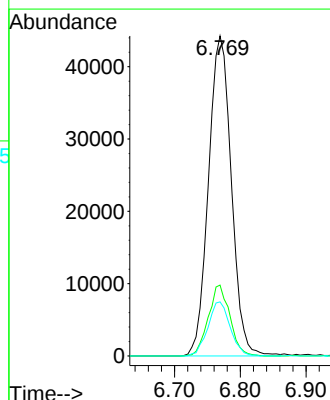
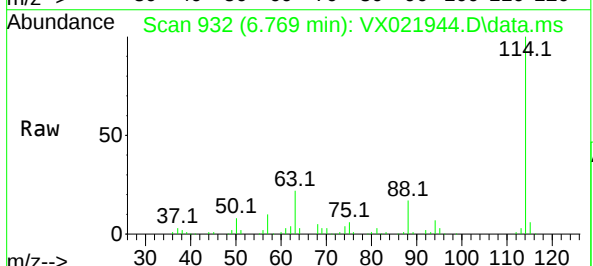
Tgt Ion: 114 Resp: 107161

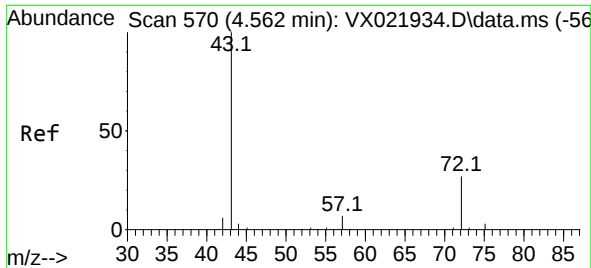
Ion Ratio Lower Upper

114 100

63 20.9 16.6 25.0

88 16.5 13.1 19.7

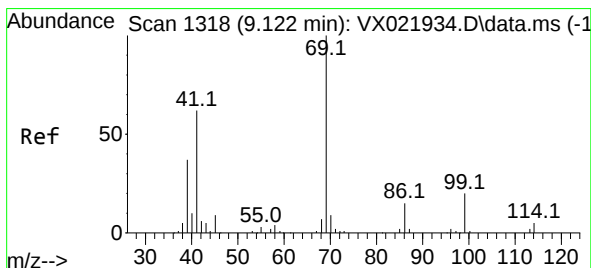
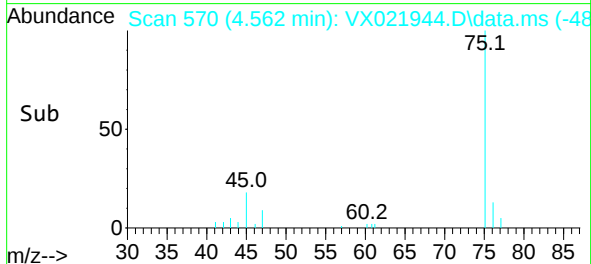
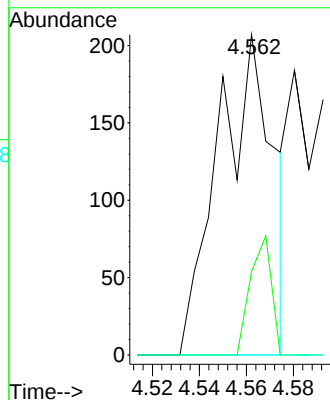
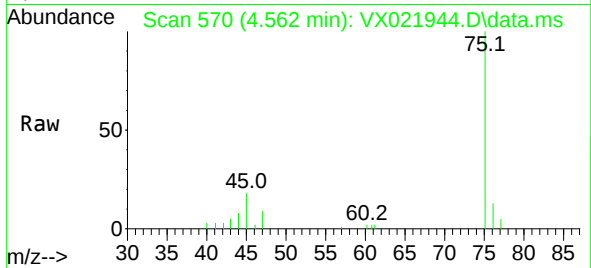




#30  
2-Butanone  
Concen: 0.35 ug/l  
RT: 4.562 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

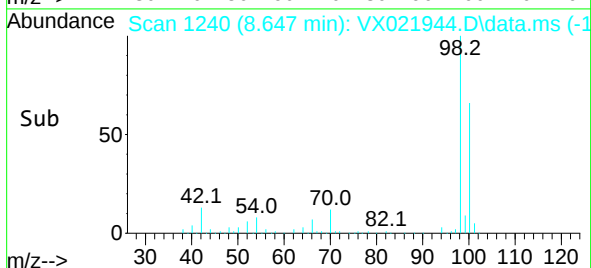
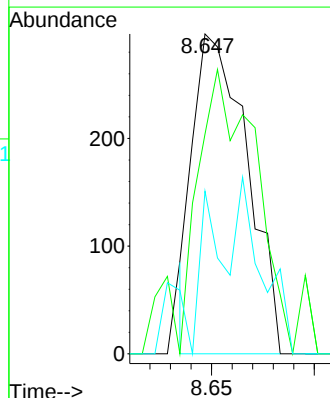
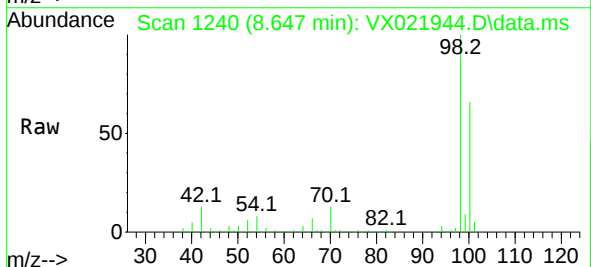
Instrument :  
MSVOA\_X  
ClientSampled :  
14B-2

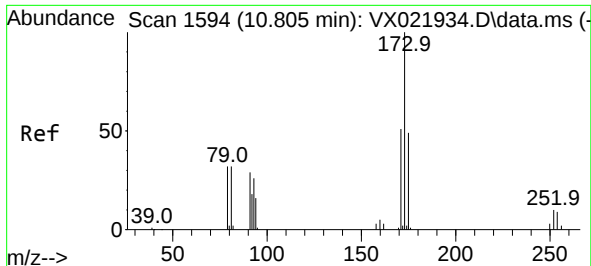
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 334         |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 57          | 14.4  | 6.4 9.6#    |
| 72          | 0.0   | 22.1 33.1#  |



#51  
Ethyl methacrylate  
Concen: 0.26 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.475 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 69 | Resp: | 540         |
| Ion         | Ratio | Lower Upper |
| 69          | 100   |             |
| 41          | 68.7  | 31.1 93.5   |
| 39          | 31.0  | 18.3 54.9   |

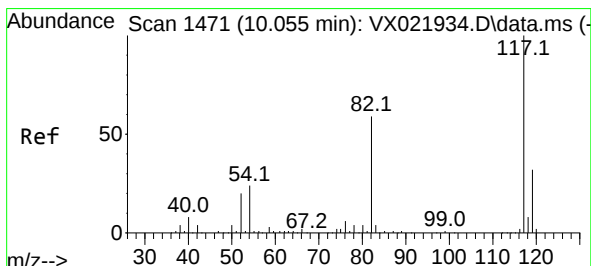
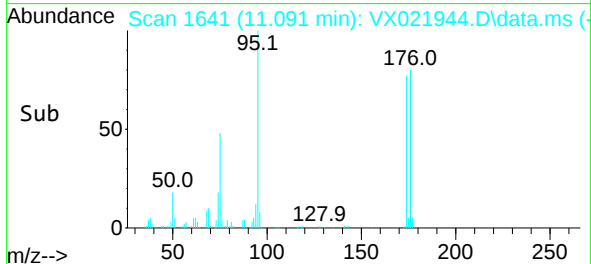
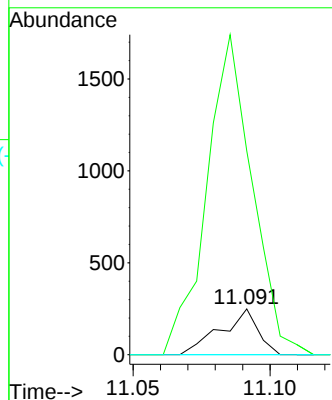
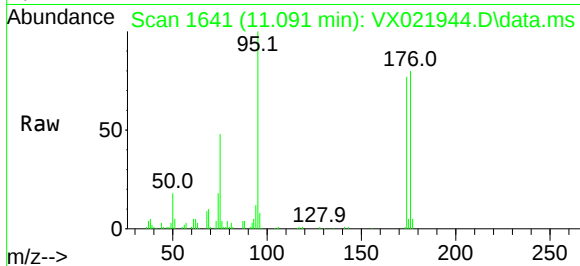




#56  
Bromoform  
Concen: 0.30 ug/l  
RT: 11.091 min Scan# 1641  
Delta R.T. 0.287 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

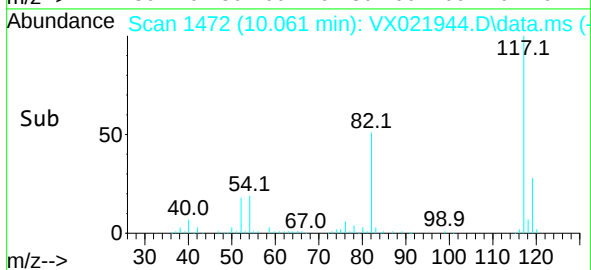
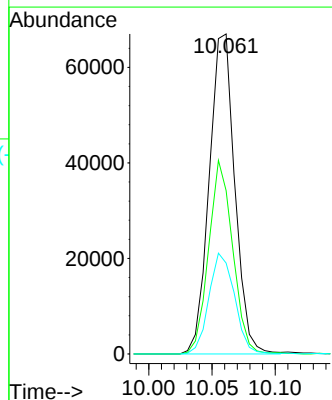
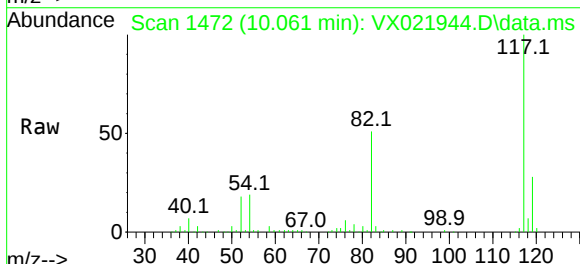
Instrument :  
MSVOA\_X  
ClientSampled :  
14B-2

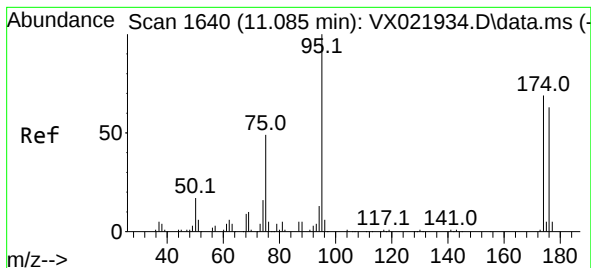
Tgt Ion:173 Resp: 239  
Ion Ratio Lower Upper  
173 100  
175 843.1 39.4 59.2#  
254 0.0 8.0 12.0#



#57  
Chlorobenzene-d5  
Concen: 30.00 ug/l  
RT: 10.061 min Scan# 1472  
Delta R.T. 0.006 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

Tgt Ion:117 Resp: 94288  
Ion Ratio Lower Upper  
117 100  
82 57.0 44.9 67.3  
119 31.6 25.0 37.6

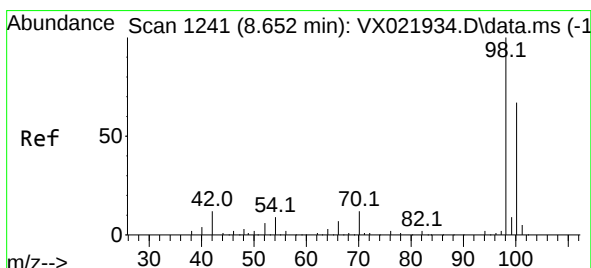
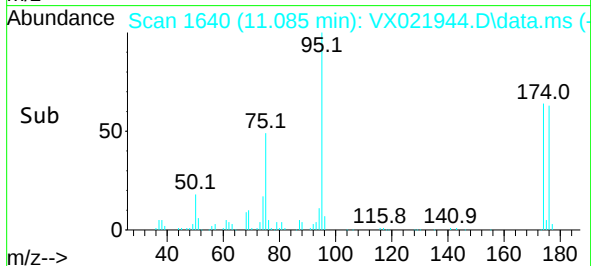
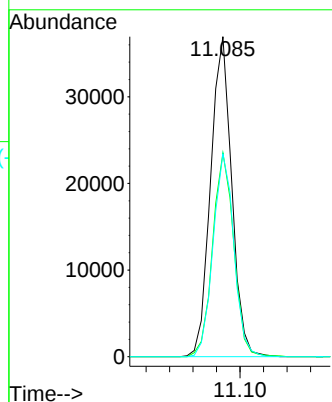
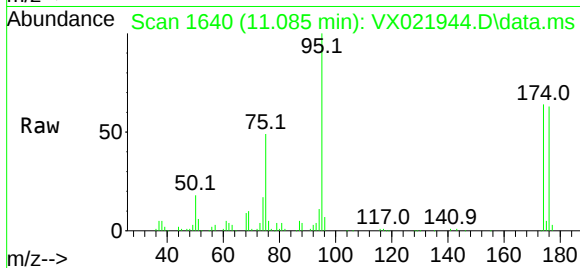




#60  
4-Bromofluorobenzene  
Concen: 29.44 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

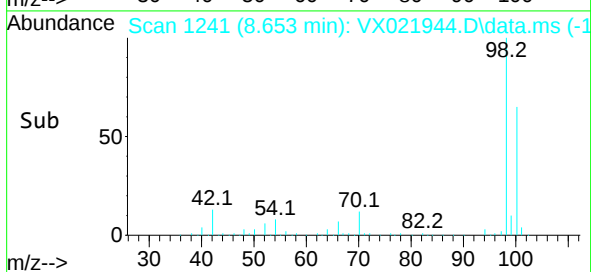
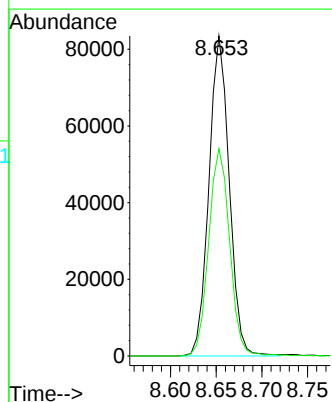
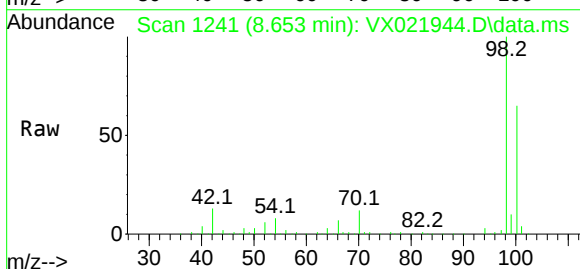
Instrument :  
MSVOA\_X  
ClientSampleId :  
14B-2

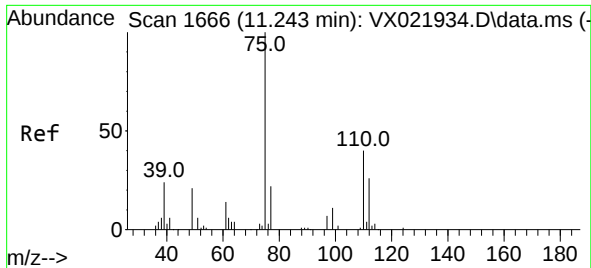
Tgt Ion: 95 Resp: 46060  
Ion Ratio Lower Upper  
95 100  
174 63.8 52.2 78.2  
176 62.7 49.3 73.9



#63  
Toluene-d8  
Concen: 29.88 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.001 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

Tgt Ion: 98 Resp: 128753  
Ion Ratio Lower Upper  
98 100  
100 66.6 52.6 78.8

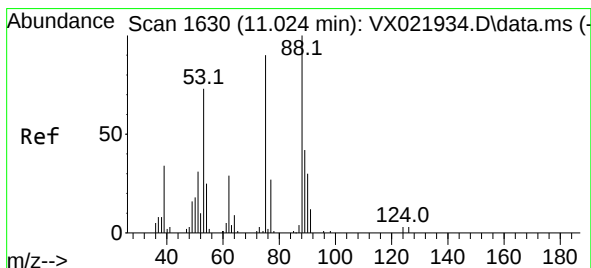
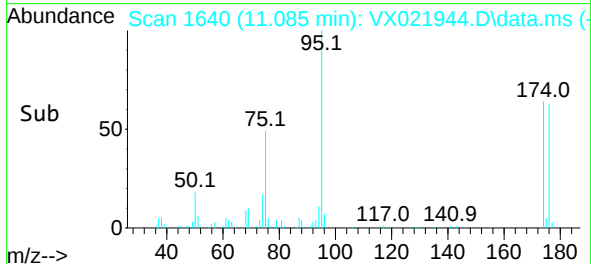
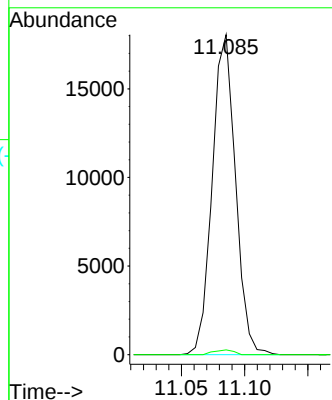
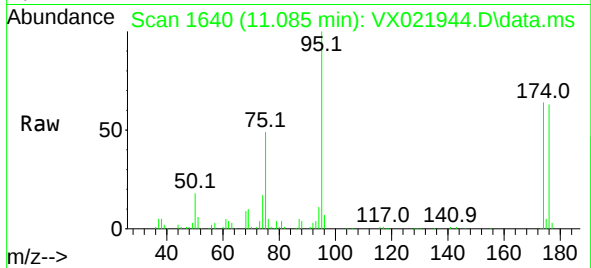




#72  
1,2,3-Trichloropropane  
Concen: 13.72 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.158 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

Instrument :  
MSVOA\_X  
ClientSampled :  
14B-2

Tgt Ion: 75 Resp: 23091  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 33.0



#77  
t-1,4-Dichloro-2-butene  
Concen: 33.85 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX021944.D  
Acq: 12 May 2021 22:47

Tgt Ion: 75 Resp: 23091  
Ion Ratio Lower Upper  
75 100  
53 0.0 40.2 120.6#  
89 0.0 23.4 70.0#

