

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060421\  
 Data File : VX022414.D  
 Acq On : 04 Jun 2021 15:58  
 Operator : JC/MD  
 Sample : M2619-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 05 03:19:21 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051921W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 19 14:23:10 2021  
 Response via : Initial Calibration

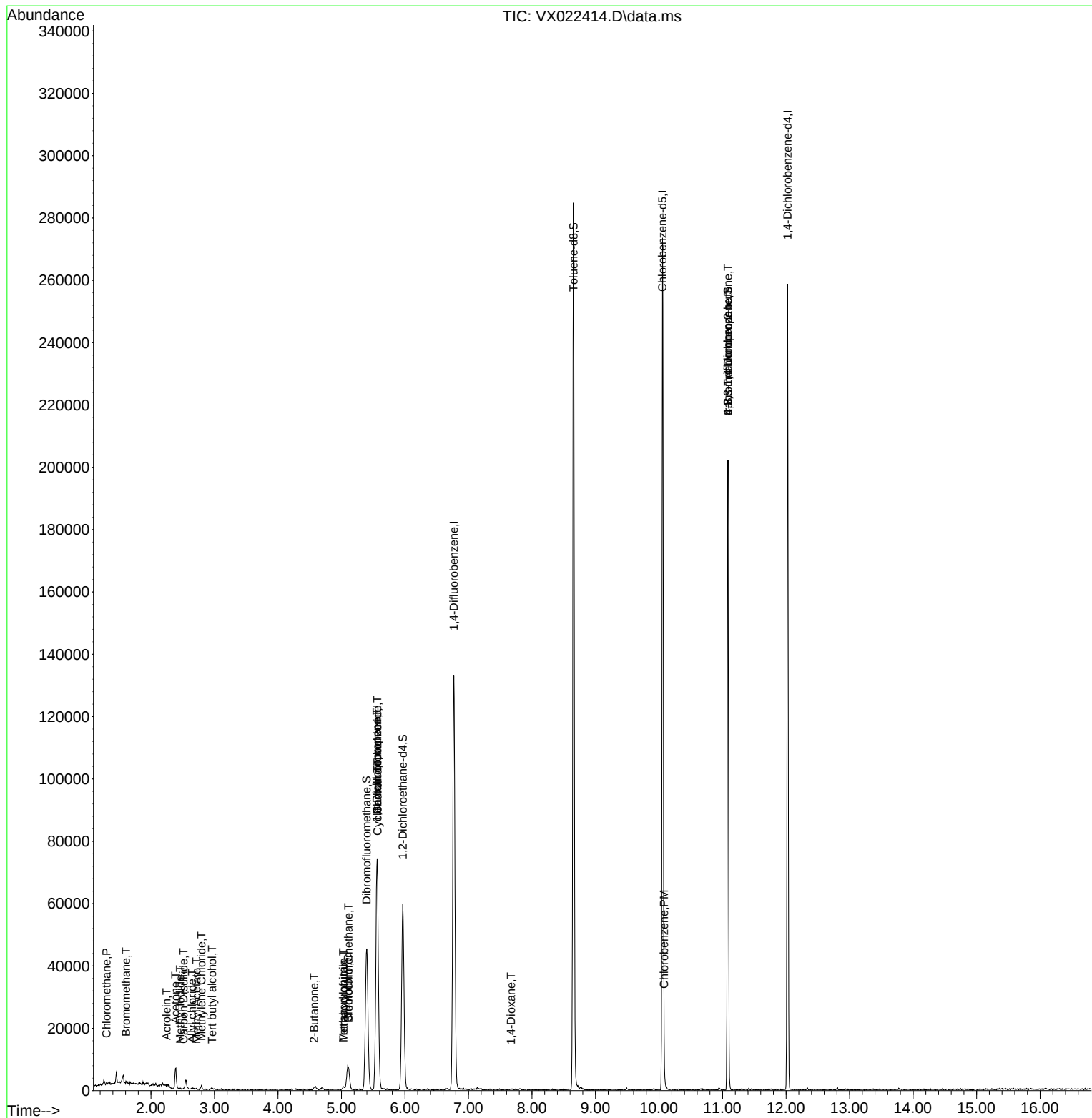
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.562  | 168   | 62905    | 50.000   | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 133728   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 116539   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 45090    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 53918    | 55.565   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 111.140% |
| 35) Dibromofluoromethane      | 5.397  | 113   | 39944    | 47.102   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 94.200%  |
| 50) Toluene-d8                | 8.653  | 98    | 162835   | 49.846   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 99.700%  |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 55986    | 46.367   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 92.740%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.301  | 50    | 172      | 0.209    | ug/l   | # 42     |
| 5) Bromomethane               | 1.605  | 94    | 125      | 0.246    | ug/l   | # 77     |
| 10) Methyl Iodide             | 2.459  | 142   | 354      | 0.442    | ug/l   | # 85     |
| 11) Tert butyl alcohol        | 2.965  | 59    | 402      | 1.811    | ug/l   | # 73     |
| 13) Acrolein                  | 2.245  | 56    | 64       | 0.435    | ug/l   | # 1      |
| 14) Allyl chloride            | 2.648  | 41    | 415      | 0.313    | ug/l   | # 49     |
| 16) Acetone                   | 2.386  | 43    | 7101     | 16.806   | ug/l   | 97       |
| 17) Carbon Disulfide          | 2.514  | 76    | 420      | 0.222    | ug/l   | # 75     |
| 18) Methyl Acetate            | 2.715  | 43    | 398      | 0.354    | ug/l   | # 73     |
| 20) Methylene Chloride        | 2.794  | 84    | 438      | 0.467    | ug/l   | # 93     |
| 25) 2-Butanone                | 4.568  | 43    | 594      | 0.869    | ug/l   | 95       |
| 28) Bromochloromethane        | 5.111  | 49    | 851      | 1.172    | ug/l   | # 9      |
| 29) Tetrahydrofuran           | 5.032  | 42    | 487      | 1.197    | ug/l   | 96       |
| 30) Chloroform                | 5.105  | 83    | 9395     | 6.075    | ug/l   | 92       |
| 31) Cyclohexane               | 5.568  | 56    | 1784     | 1.463    | ug/l   | # 35     |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 6043     | 4.887    | ug/l   | # 46     |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 7592     | 6.276    | ug/l   | # 16     |
| 41) Methacrylonitrile         | 5.032  | 41    | 390      | 0.481    | ug/l   | # 28     |
| 49) 1,4-Dioxane               | 7.671  | 88    | 159      | 7.147    | ug/l   | # 82     |
| 65) Chlorobenzene             | 10.079 | 112   | 1144     | 0.472    | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 29679    | 26.681   | ug/l   | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 29679    | 63.216   | ug/l   | # 12     |
| -----                         |        |       |          |          |        |          |

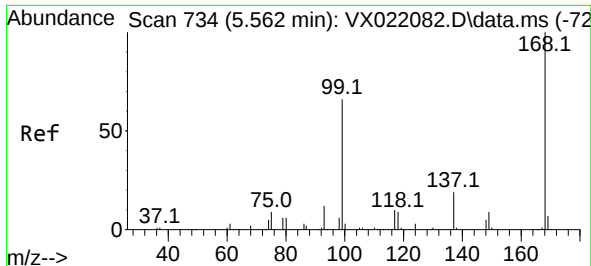
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060421\  
Data File : VX022414.D  
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Operator : JC/MD  
Sample : M2619-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

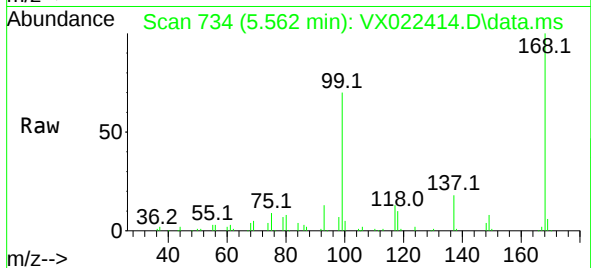
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051921W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 19 14:23:10 2021  
Response via : Initial Calibration



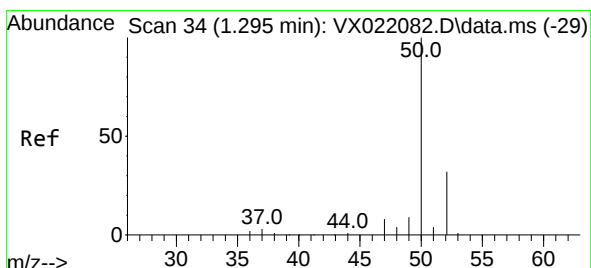
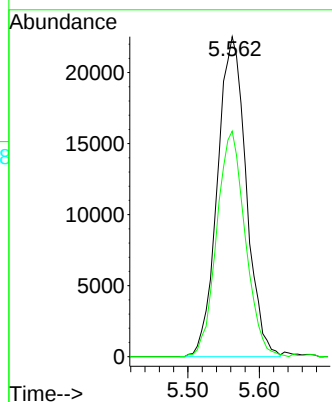
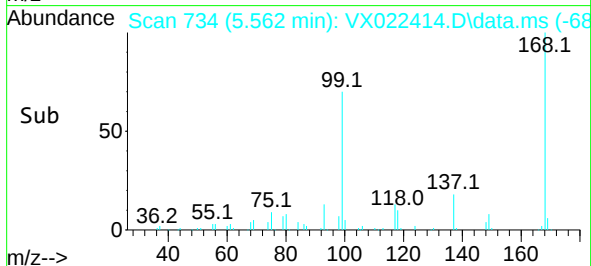


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

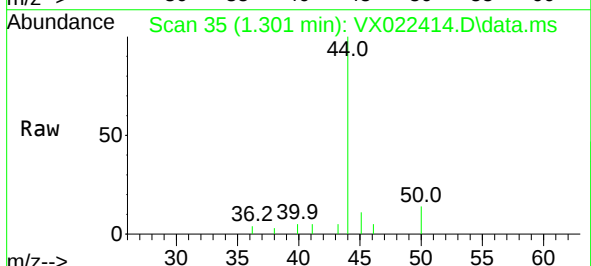
Instrument :  
MSVOA\_X  
ClientSampled :



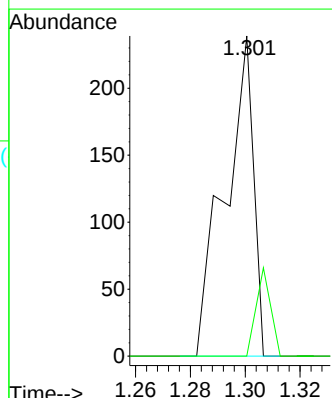
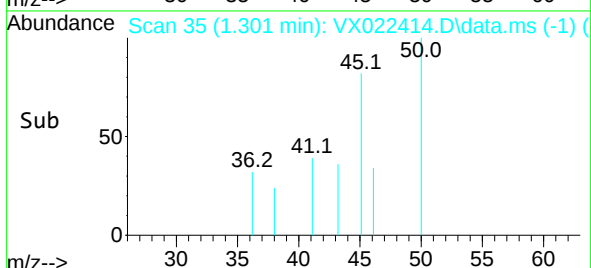
Tgt Ion:168 Resp: 62905  
Ion Ratio Lower Upper  
168 100  
99 70.5 45.8 68.6#

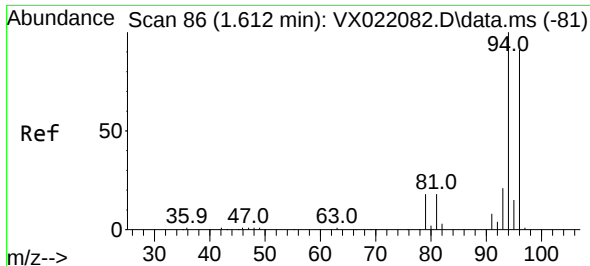


#3  
Chloromethane  
Concen: 0.209 ug/l  
RT: 1.301 min Scan# 35  
Delta R.T. 0.006 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58



Tgt Ion: 50 Resp: 172  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.4 39.6#

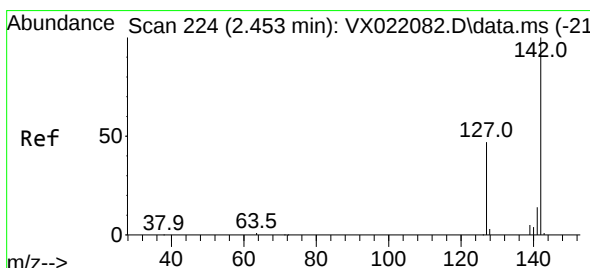
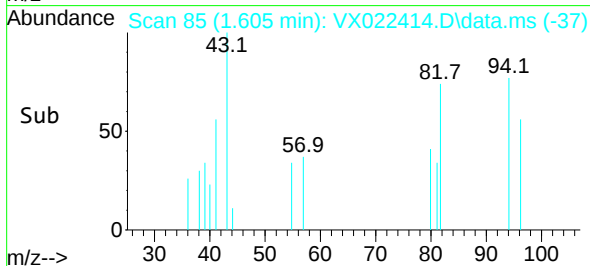
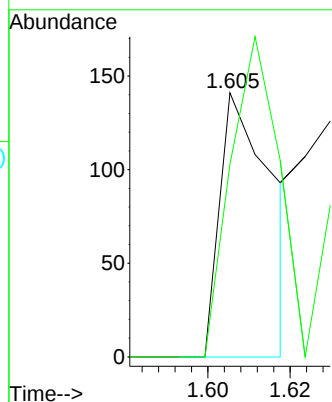
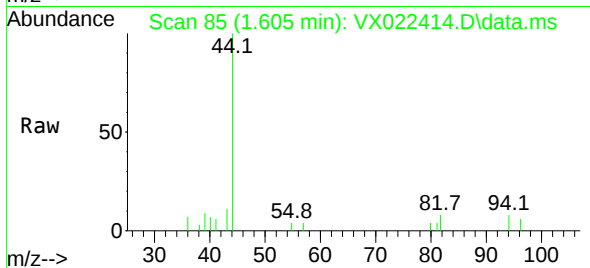




#5  
Bromomethane  
Concen: 0.246 ug/l  
RT: 1.605 min Scan# 85  
Delta R.T. -0.007 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

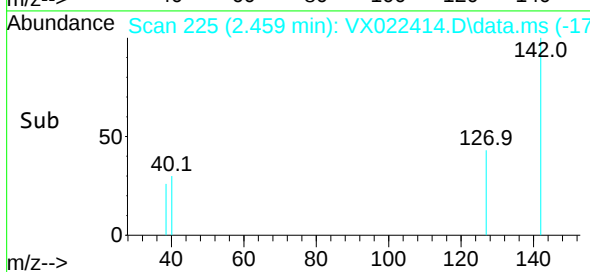
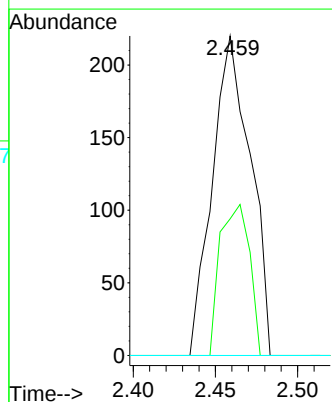
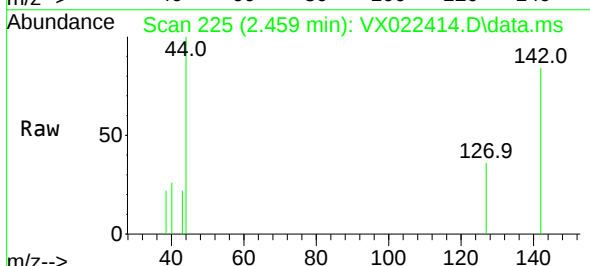
Instrument :  
MSVOA\_X  
ClientSampleId :

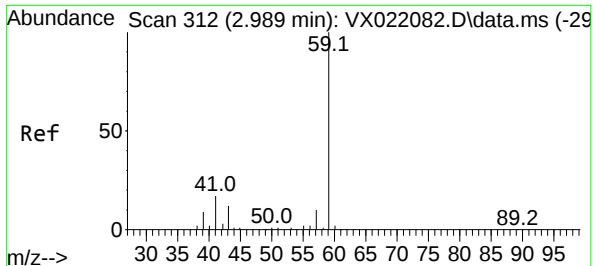
Tgt Ion: 94 Resp: 125  
Ion Ratio Lower Upper  
94 100  
96 73.0 76.4 114.6#



#10  
Methyl Iodide  
Concen: 0.442 ug/l  
RT: 2.459 min Scan# 225  
Delta R.T. 0.006 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

Tgt Ion: 142 Resp: 354  
Ion Ratio Lower Upper  
142 100  
127 36.7 33.3 49.9  
141 0.0 11.4 17.0#



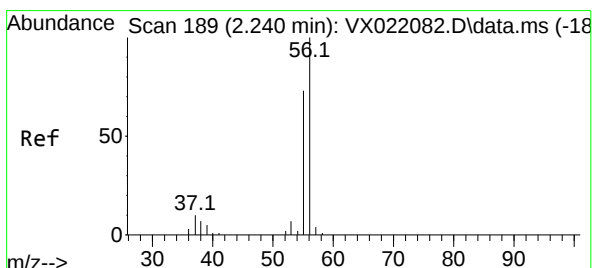
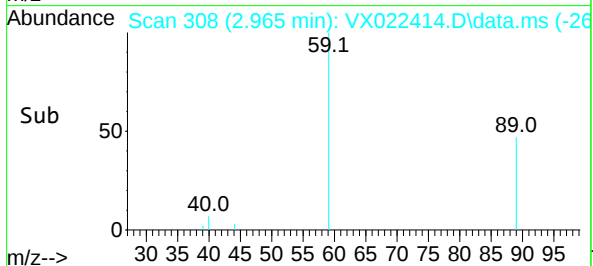
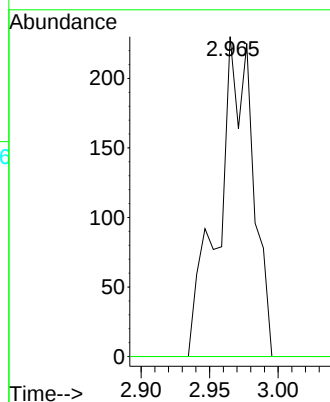
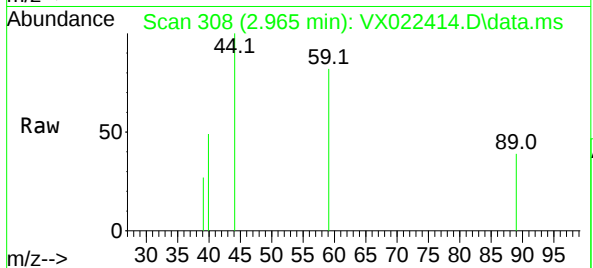


#11

Tert butyl alcohol  
Concen: 1.811 ug/l  
RT: 2.965 min Scan# 308  
Delta R.T. -0.024 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

Instrument :  
MSVOA\_X  
ClientSampled :

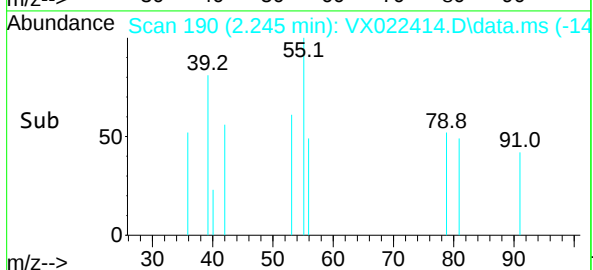
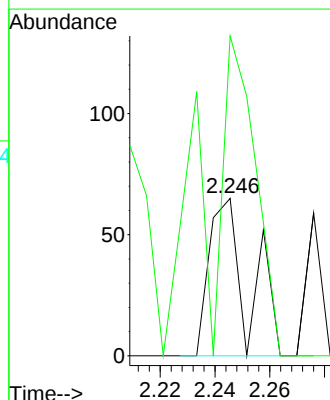
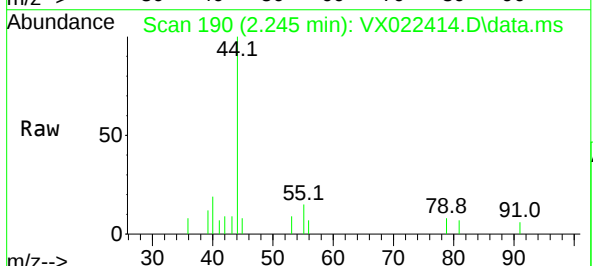
Tgt Ion: 59 Resp: 402  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

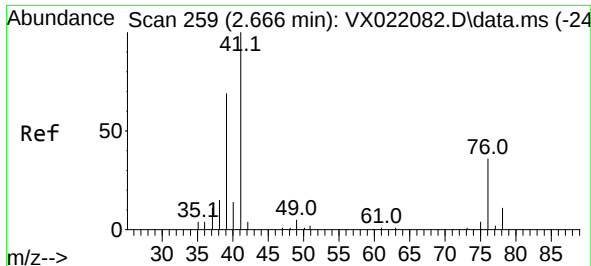


#13

Acrolein  
Concen: 0.435 ug/l  
RT: 2.245 min Scan# 190  
Delta R.T. 0.005 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

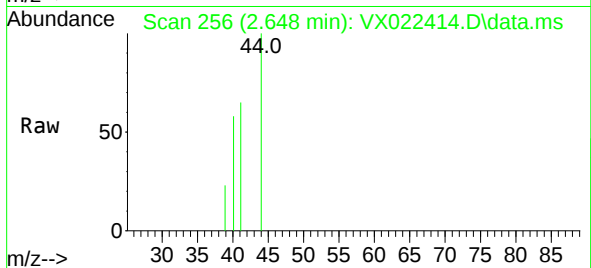
Tgt Ion: 56 Resp: 64  
Ion Ratio Lower Upper  
56 100  
55 168.8 56.4 84.6#



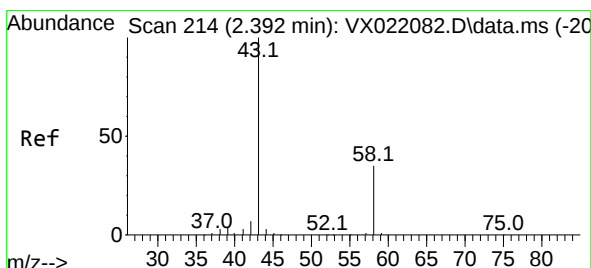
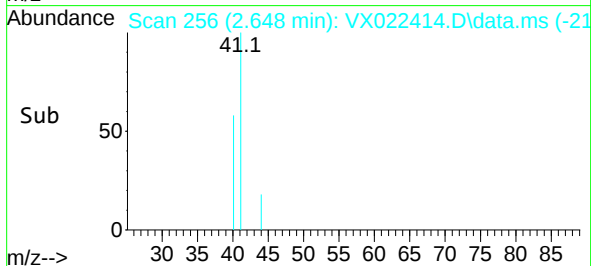
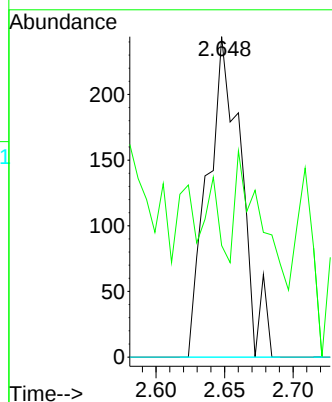


#14  
Allyl chloride  
Concen: 0.313 ug/l  
RT: 2.648 min Scan# 256  
Delta R.T. -0.018 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

Instrument :  
MSVOA\_X  
ClientSampled :

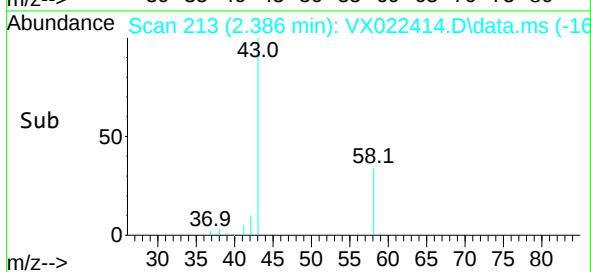
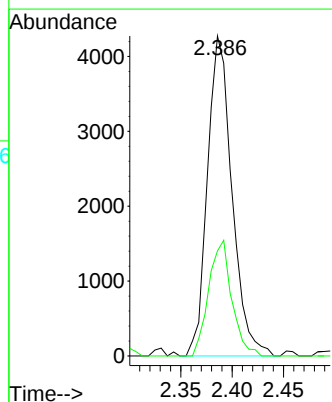
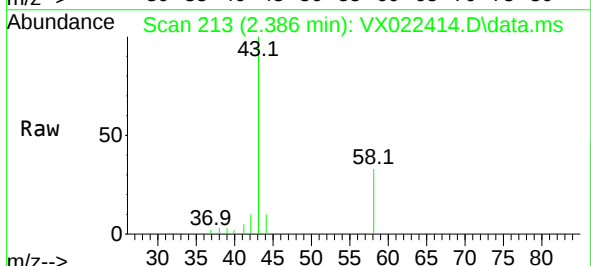


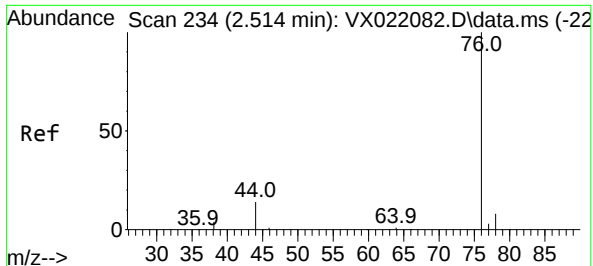
Tgt Ion: 41 Resp: 415  
Ion Ratio Lower Upper  
41 100  
39 30.6 51.6 77.4#  
76 0.0 30.5 45.7#



#16  
Acetone  
Concen: 16.806 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

Tgt Ion: 43 Resp: 7101  
Ion Ratio Lower Upper  
43 100  
58 32.8 27.8 41.8

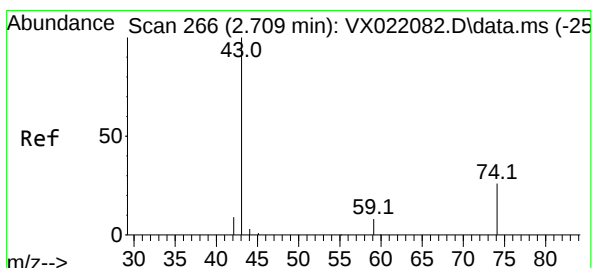
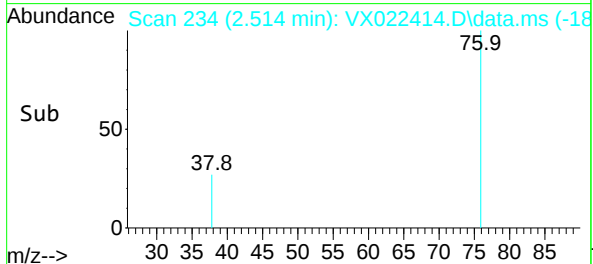
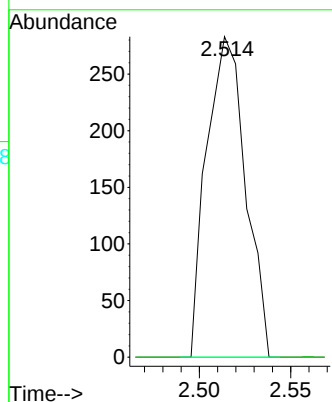
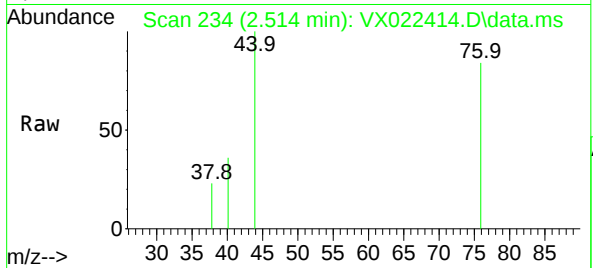




#17  
Carbon Disulfide  
Concen: 0.222 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. -0.000 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

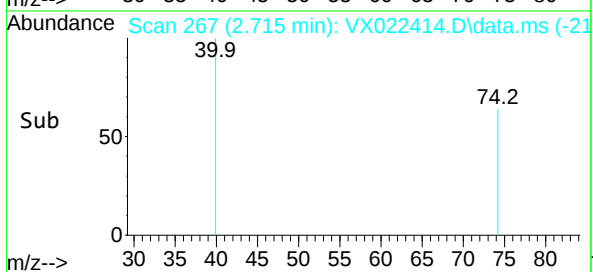
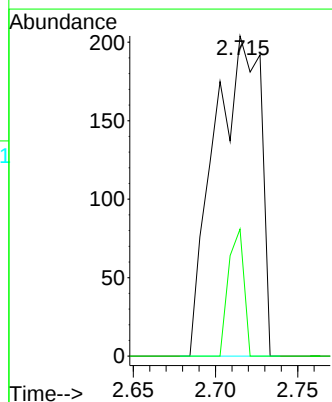
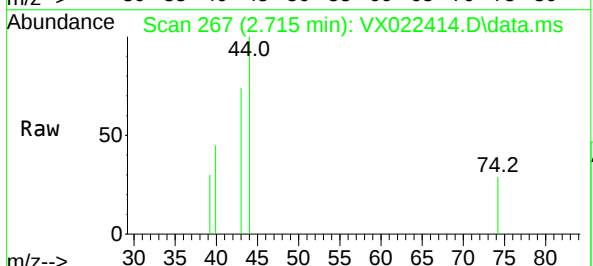
Instrument :  
MSVOA\_X  
ClientSampled :

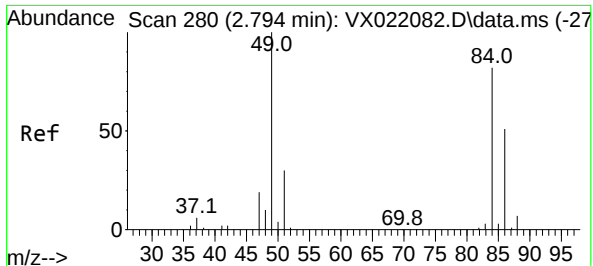
Tgt Ion: 76 Resp: 420  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#



#18  
Methyl Acetate  
Concen: 0.354 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

Tgt Ion: 43 Resp: 398  
Ion Ratio Lower Upper  
43 100  
74 13.3 21.9 32.9#





#20

Methylene Chloride

Concen: 0.467 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.000 min

Lab File: VX022414.D

Acq: 04 Jun 2021 15:58

Tgt Ion: 84 Resp: 438

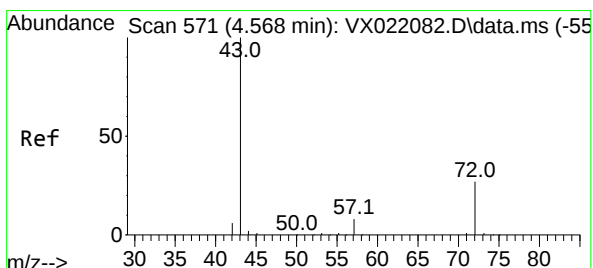
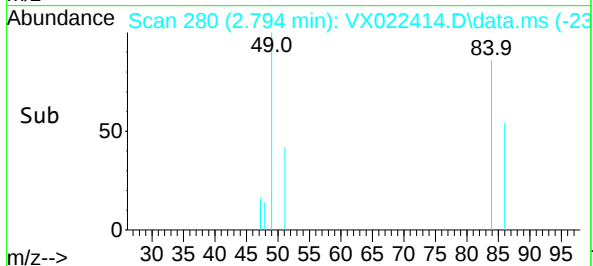
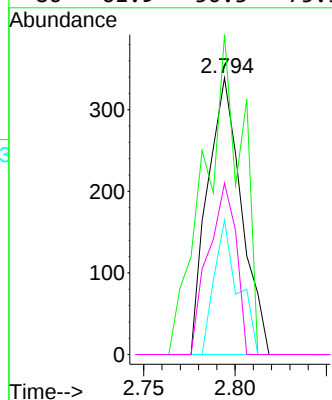
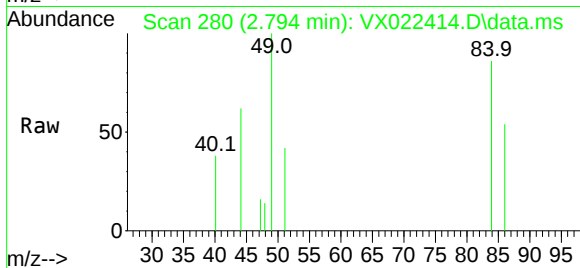
Ion Ratio Lower Upper

84 100

49 115.6 88.6 132.8

51 48.7 27.0 40.6#

86 61.9 50.3 75.5



#25

2-Butanone

Concen: 0.869 ug/l

RT: 4.568 min Scan# 571

Delta R.T. 0.000 min

Lab File: VX022414.D

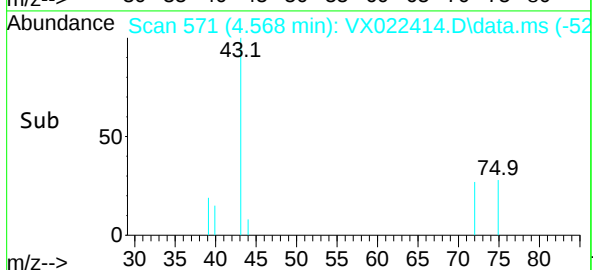
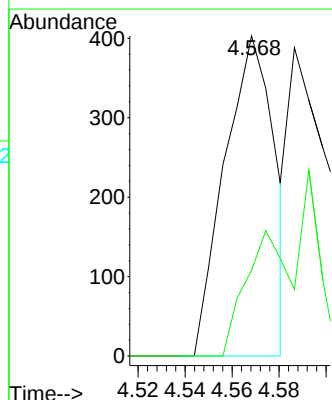
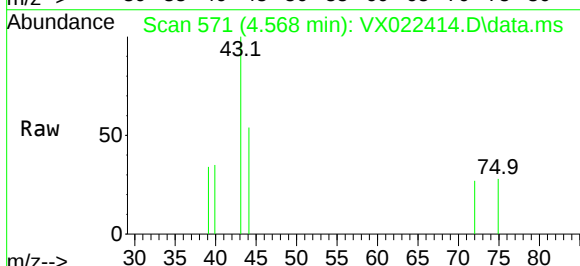
Acq: 04 Jun 2021 15:58

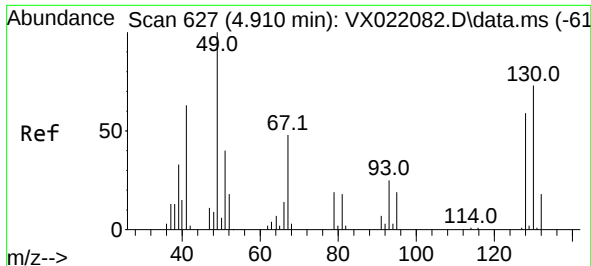
Tgt Ion: 43 Resp: 594

Ion Ratio Lower Upper

43 100

72 26.8 23.7 35.5

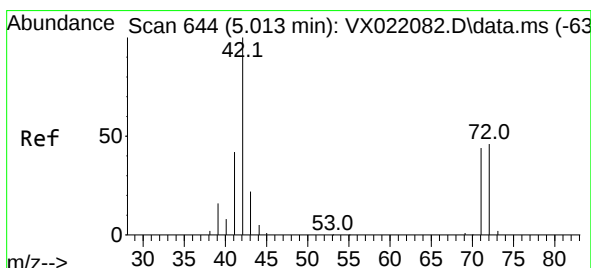
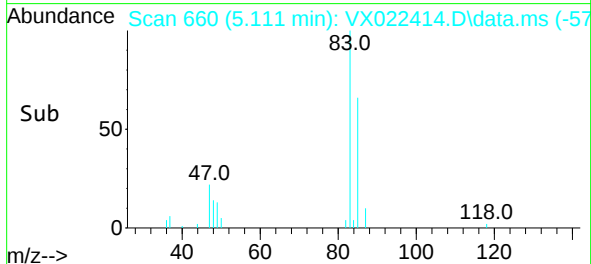
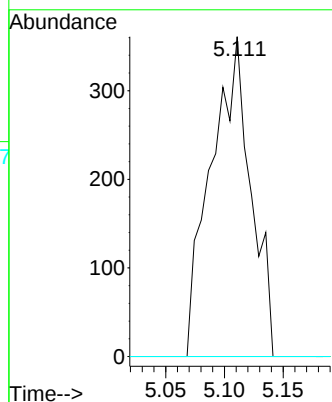
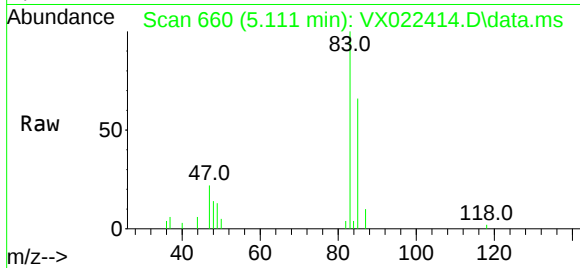




#28  
Bromochloromethane  
Concen: 1.172 ug/l  
RT: 5.111 min Scan# 660  
Delta R.T. 0.201 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

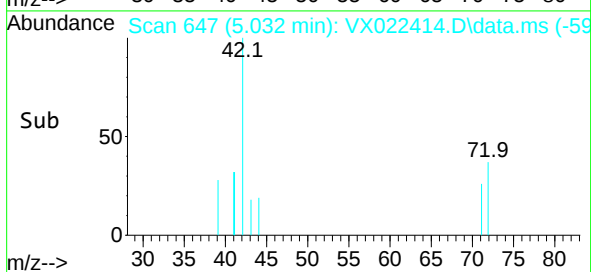
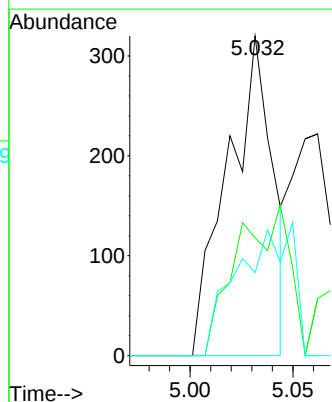
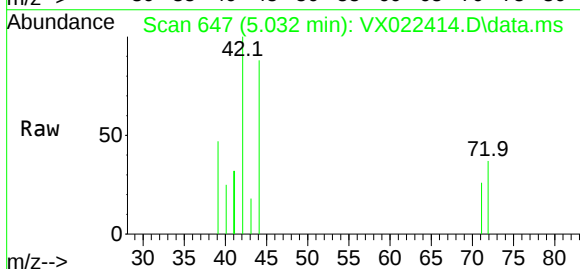
Instrument :  
MSVOA\_X  
ClientSampled :

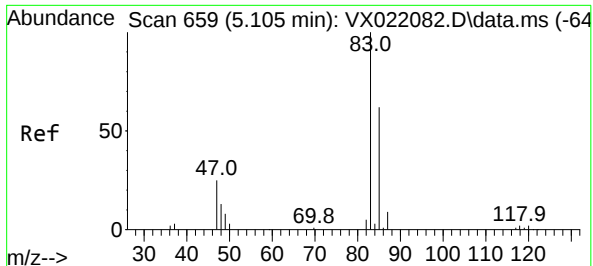
Tgt Ion: 49 Resp: 851  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 4.0  
130 0.0 68.2 102.2#



#29  
Tetrahydrofuran  
Concen: 1.197 ug/l  
RT: 5.032 min Scan# 647  
Delta R.T. 0.019 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

Tgt Ion: 42 Resp: 487  
Ion Ratio Lower Upper  
42 100  
72 54.6 41.7 62.5  
71 50.3 38.4 57.6





#30

Chloroform

Concen: 6.075 ug/l

RT: 5.105 min Scan# 659

Delta R.T. -0.000 min

Lab File: VX022414.D

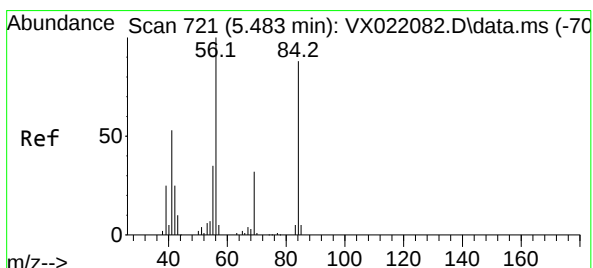
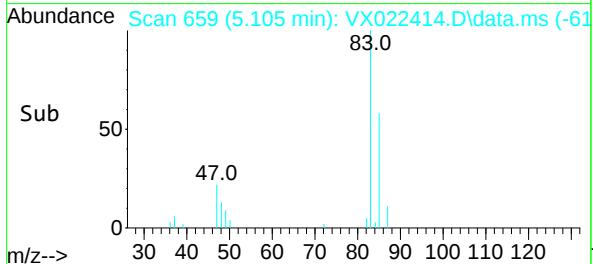
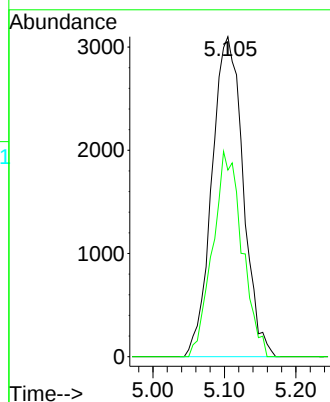
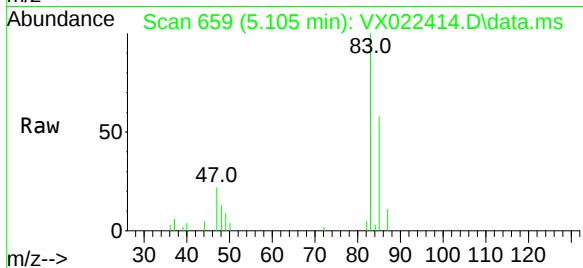
Acq: 04 Jun 2021 15:58

Tgt Ion: 83 Resp: 9395

Ion Ratio Lower Upper

83 100

85 58.3 52.0 78.0



#31

Cyclohexane

Concen: 1.463 ug/l

RT: 5.568 min Scan# 735

Delta R.T. 0.085 min

Lab File: VX022414.D

Acq: 04 Jun 2021 15:58

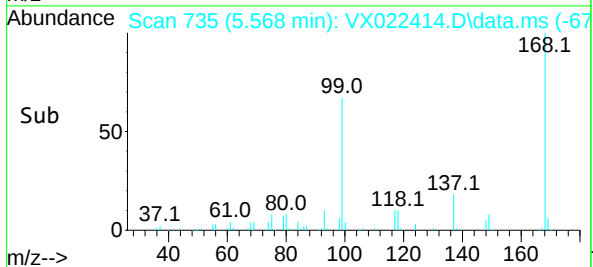
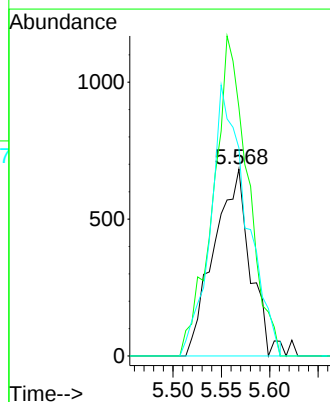
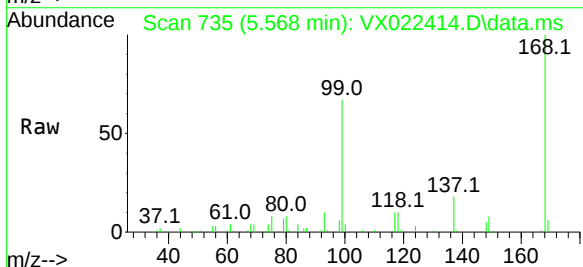
Tgt Ion: 56 Resp: 1784

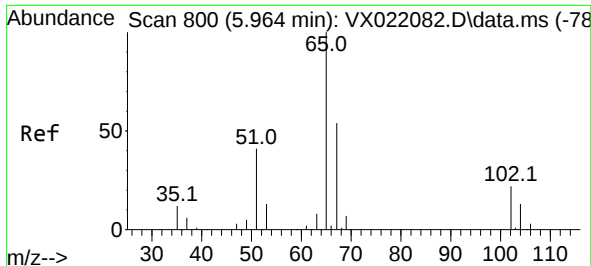
Ion Ratio Lower Upper

56 100

69 132.8 25.3 37.9#

84 111.3 71.4 107.0#





#33

1,2-Dichloroethane-d4

Concen: 55.565 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX022414.D

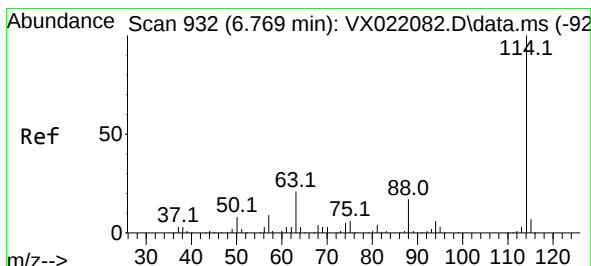
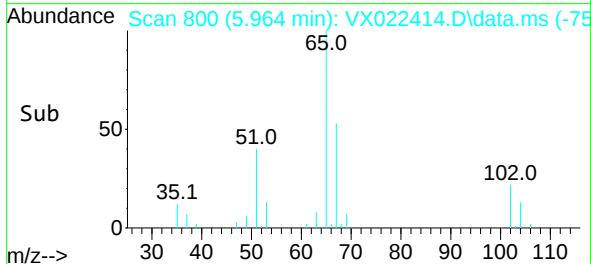
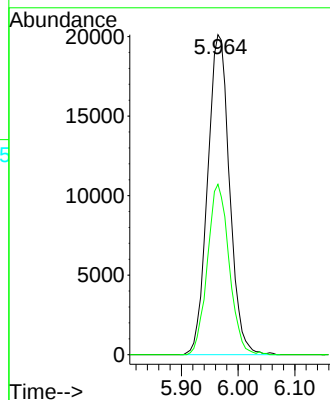
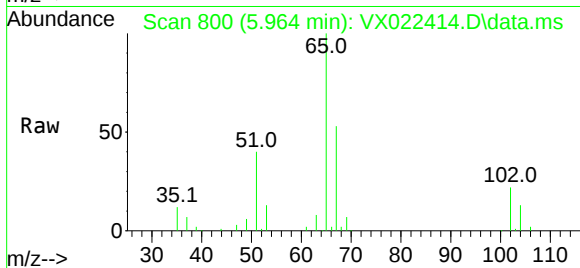
Acq: 04 Jun 2021 15:58

Tgt Ion: 65 Resp: 53918

Ion Ratio Lower Upper

65 100

67 53.0 0.0 105.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX022414.D

Acq: 04 Jun 2021 15:58

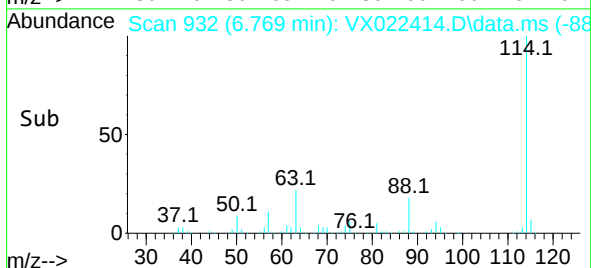
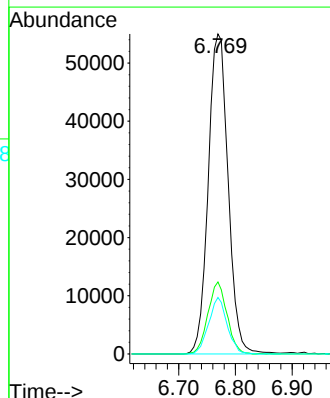
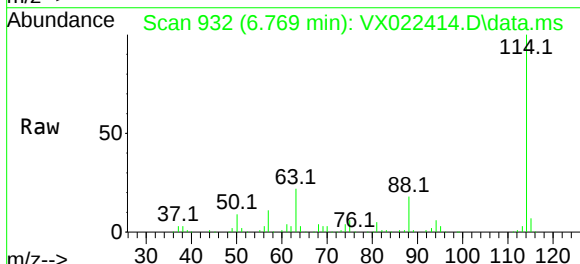
Tgt Ion: 114 Resp: 133728

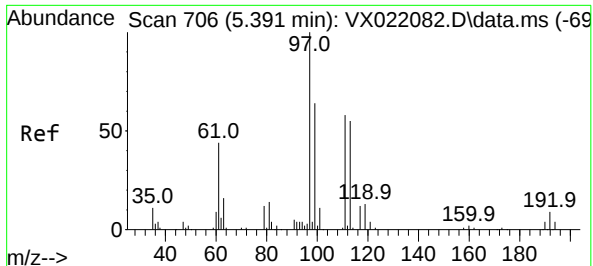
Ion Ratio Lower Upper

114 100

63 22.5 0.0 40.8

88 17.6 0.0 32.8

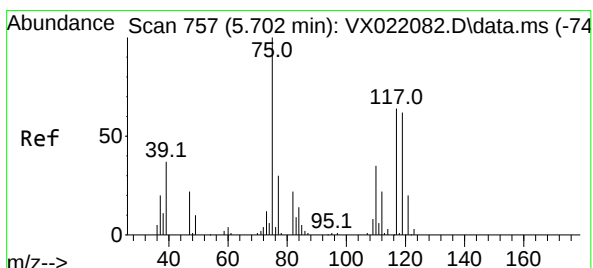
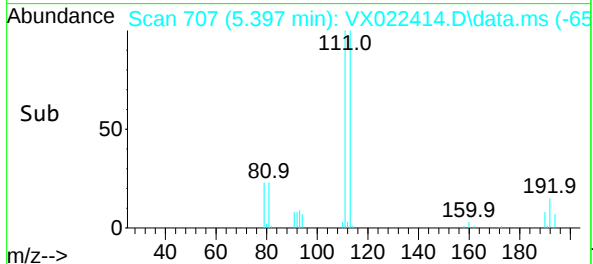
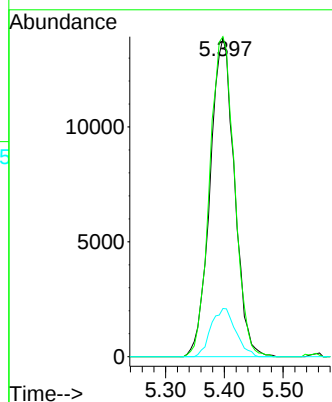
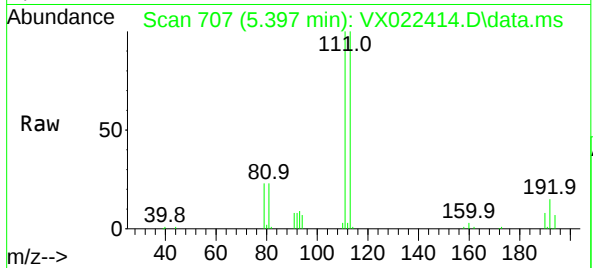




#35  
Dibromofluoromethane  
Concen: 47.102 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.006 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

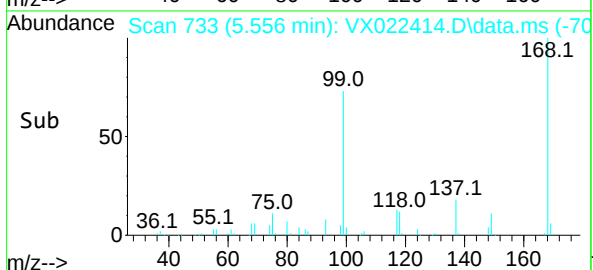
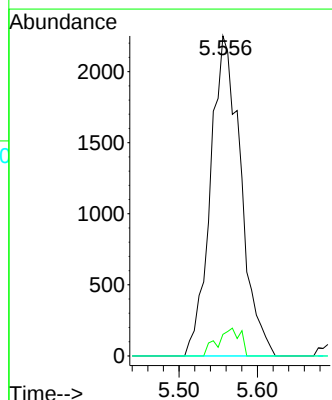
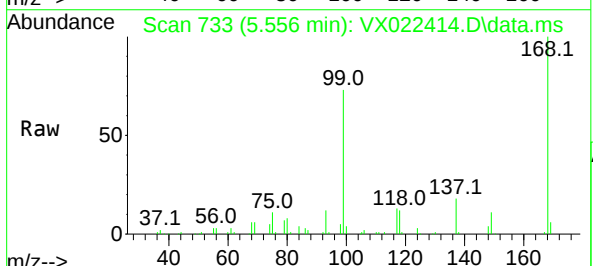
Instrument :  
MSVOA\_X  
ClientSampleId :

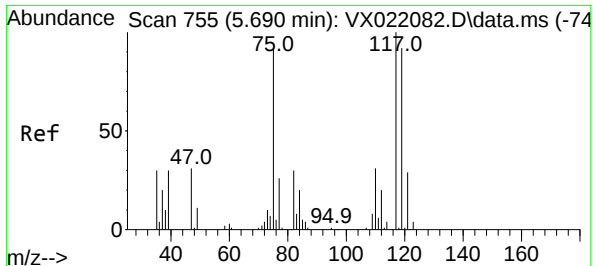
Tgt Ion:113 Resp: 39944  
Ion Ratio Lower Upper  
113 100  
111 102.2 81.9 122.9  
192 15.3 16.7 25.1#



#36  
1,1-Dichloropropene  
Concen: 4.887 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.146 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

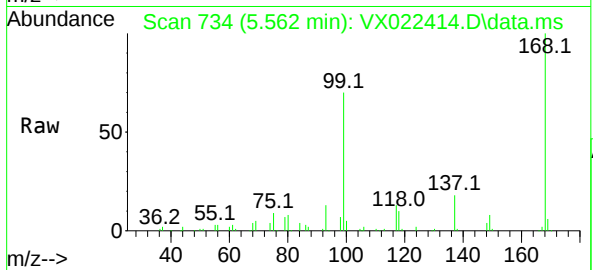
Tgt Ion: 75 Resp: 6043  
Ion Ratio Lower Upper  
75 100  
110 6.5 18.1 54.4#  
77 0.0 25.3 37.9#



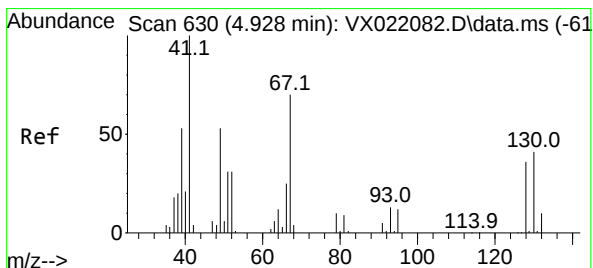
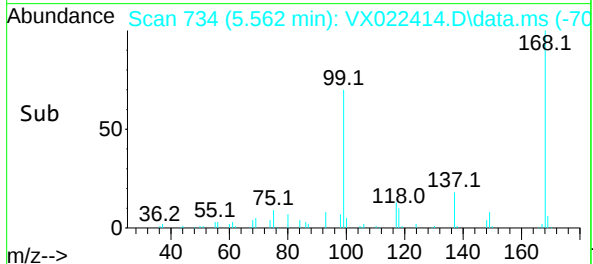
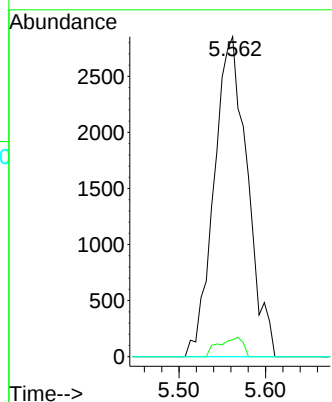


#38  
Carbon Tetrachloride  
Concen: 6.276 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.128 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

Instrument :  
MSVOA\_X  
ClientSampled :

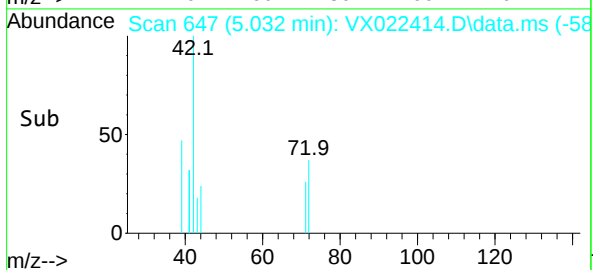
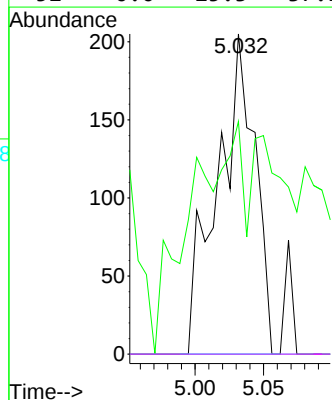
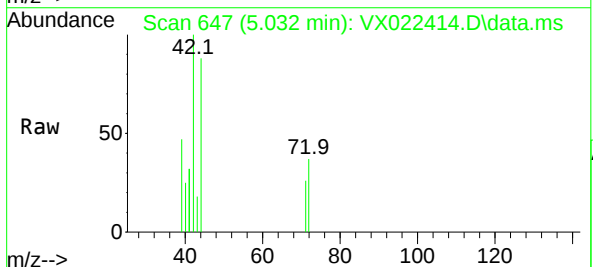


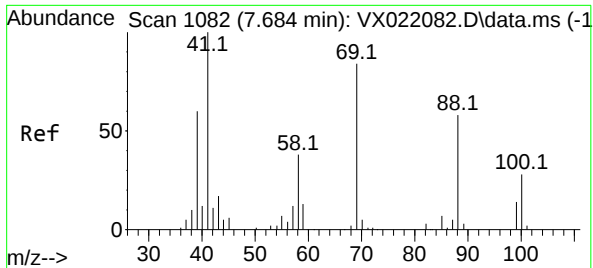
Tgt Ion:117 Resp: 7592  
Ion Ratio Lower Upper  
117 100  
119 5.3 76.2 114.2#  
121 0.0 24.8 37.2#



#41  
Methacrylonitrile  
Concen: 0.481 ug/l  
RT: 5.032 min Scan# 647  
Delta R.T. 0.104 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

Tgt Ion: 41 Resp: 390  
Ion Ratio Lower Upper  
41 100  
39 15.9 42.5 63.7#  
67 0.0 65.0 97.6#  
52 0.0 25.3 37.9#





#49

1,4-Dioxane

Concen: 7.147 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. -0.013 min

Lab File: VX022414.D

Acq: 04 Jun 2021 15:58

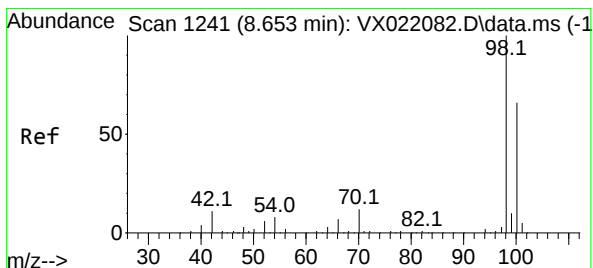
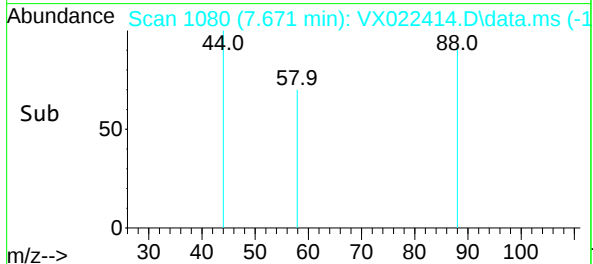
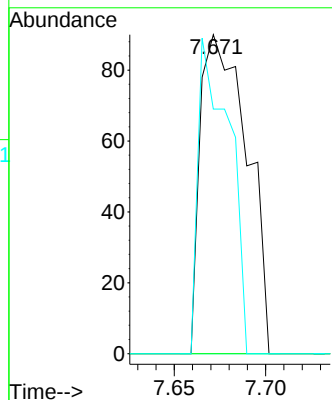
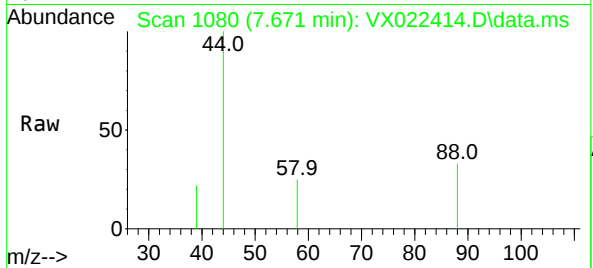
Tgt Ion: 88 Resp: 159

Ion Ratio Lower Upper

88 100

43 0.0 23.2 34.8#

58 66.0 55.0 82.4



#50

Toluene-d8

Concen: 49.846 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX022414.D

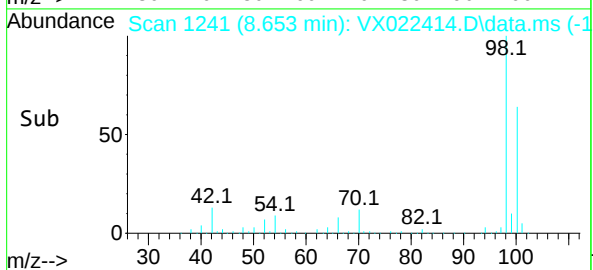
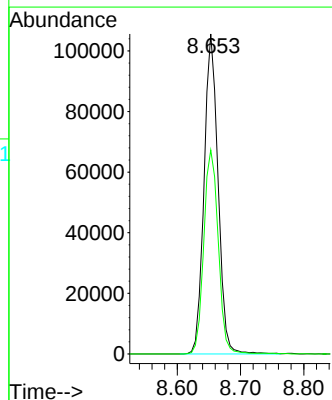
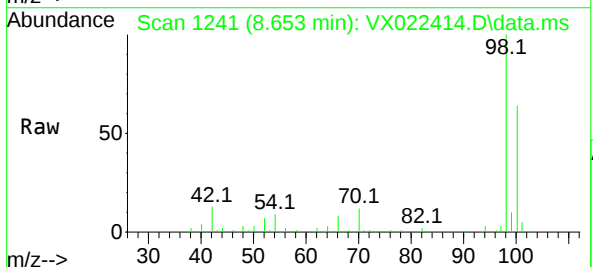
Acq: 04 Jun 2021 15:58

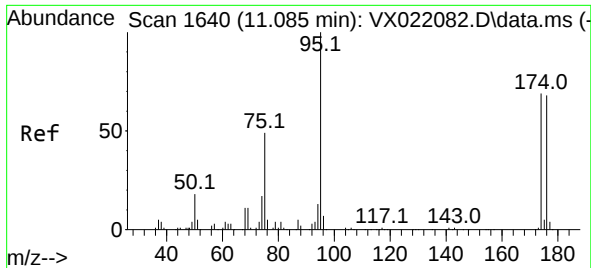
Tgt Ion: 98 Resp: 162835

Ion Ratio Lower Upper

98 100

100 66.0 51.9 77.9

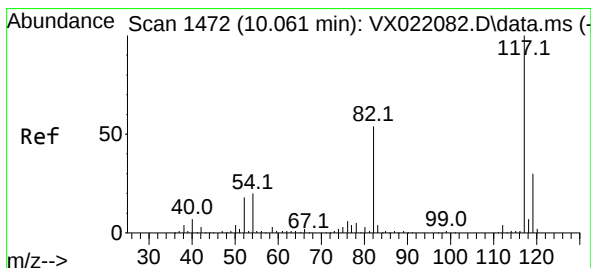
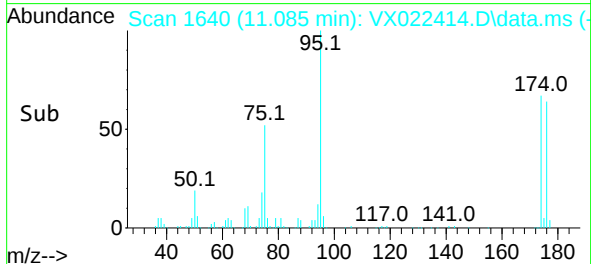
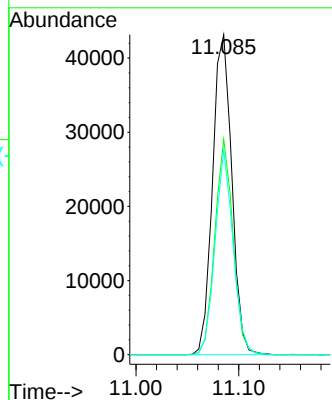
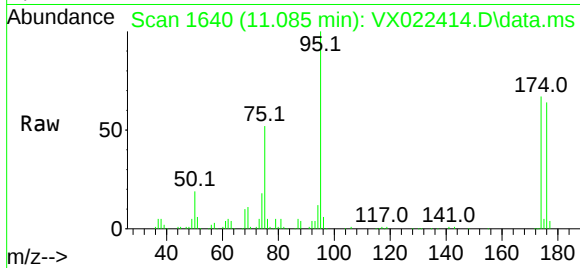




#62  
4-Bromofluorobenzene  
Concen: 46.367 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

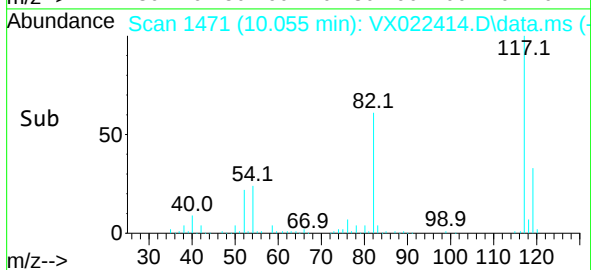
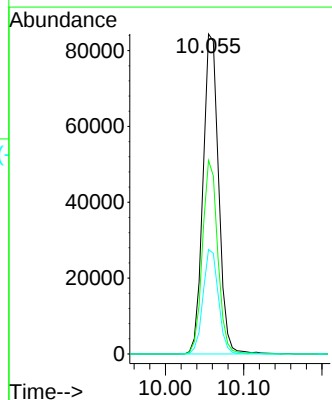
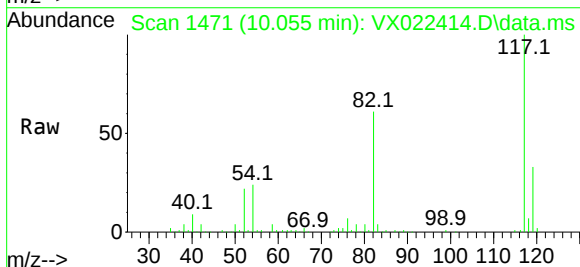
Instrument :  
MSVOA\_X  
ClientSampled :

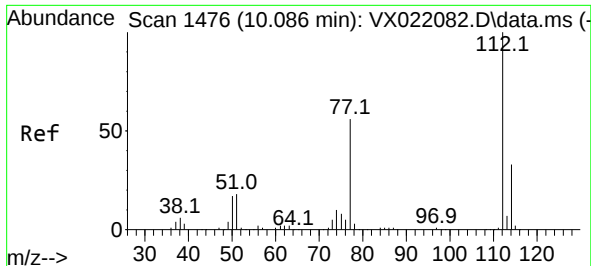
Tgt Ion: 95 Resp: 55986  
Ion Ratio Lower Upper  
95 100  
174 63.6 0.0 154.6  
176 60.0 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

Tgt Ion: 117 Resp: 116539  
Ion Ratio Lower Upper  
117 100  
82 60.5 47.4 71.2  
119 32.7 26.6 39.8

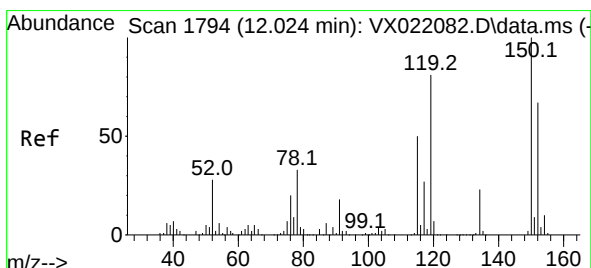
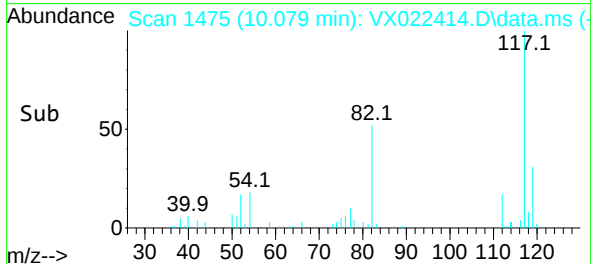
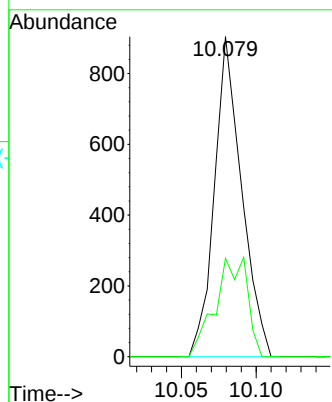
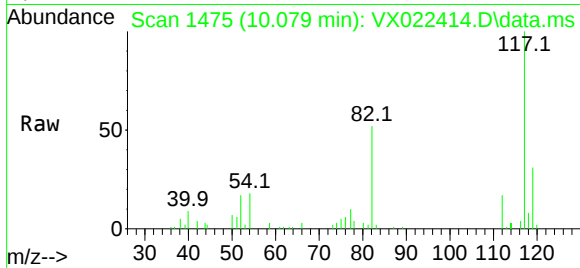




#65  
Chlorobenzene  
Concen: 0.472 ug/l  
RT: 10.079 min Scan# 1475  
Delta R.T. -0.007 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

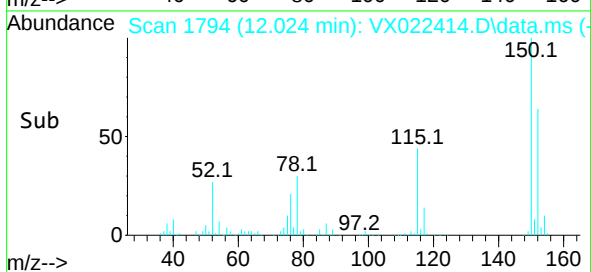
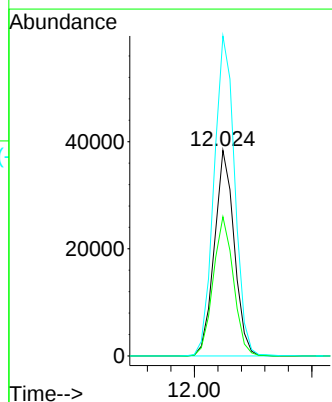
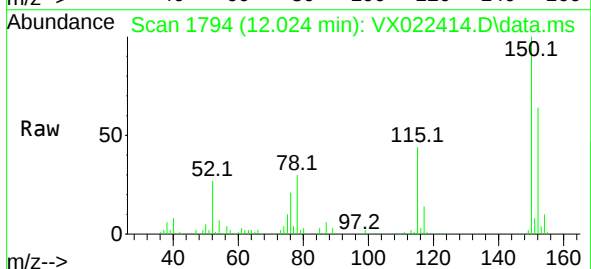
Instrument :  
MSVOA\_X  
ClientSampleId :

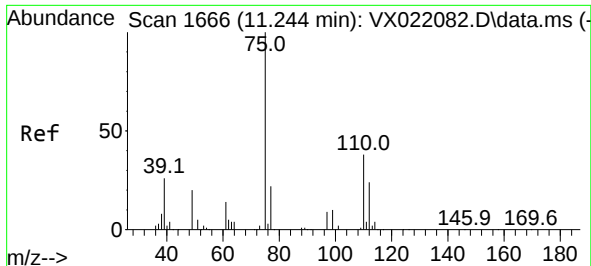
Tgt Ion:112 Resp: 1144  
Ion Ratio Lower Upper  
112 100  
114 30.8 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

Tgt Ion:152 Resp: 45090  
Ion Ratio Lower Upper  
152 100  
115 69.0 41.1 123.3  
150 162.6 0.0 349.0

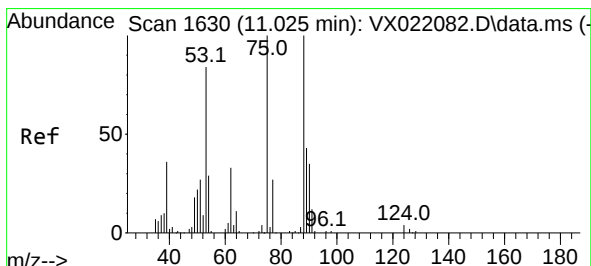
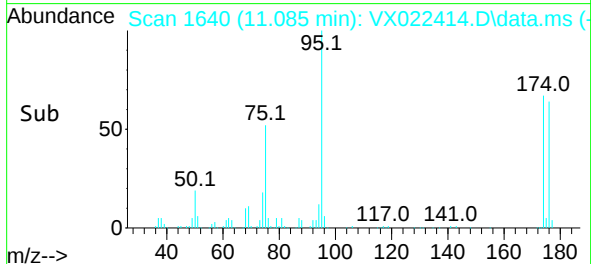
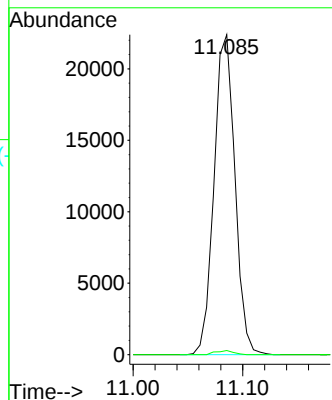
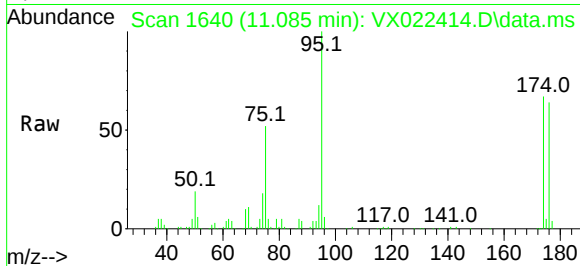




#76  
1,2,3-Trichloropropane  
Concen: 26.681 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion: 75 Resp: 29679  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 63.216 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.060 min  
Lab File: VX022414.D  
Acq: 04 Jun 2021 15:58

Tgt Ion: 75 Resp: 29679  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

