

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081823\  
 Data File : VX037115.D  
 Acq On : 19 Aug 2023 07:34  
 Operator : JC/MD  
 Sample : 04025-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 21 01:43:53 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 09:30:38 2023  
 Response via : Initial Calibration

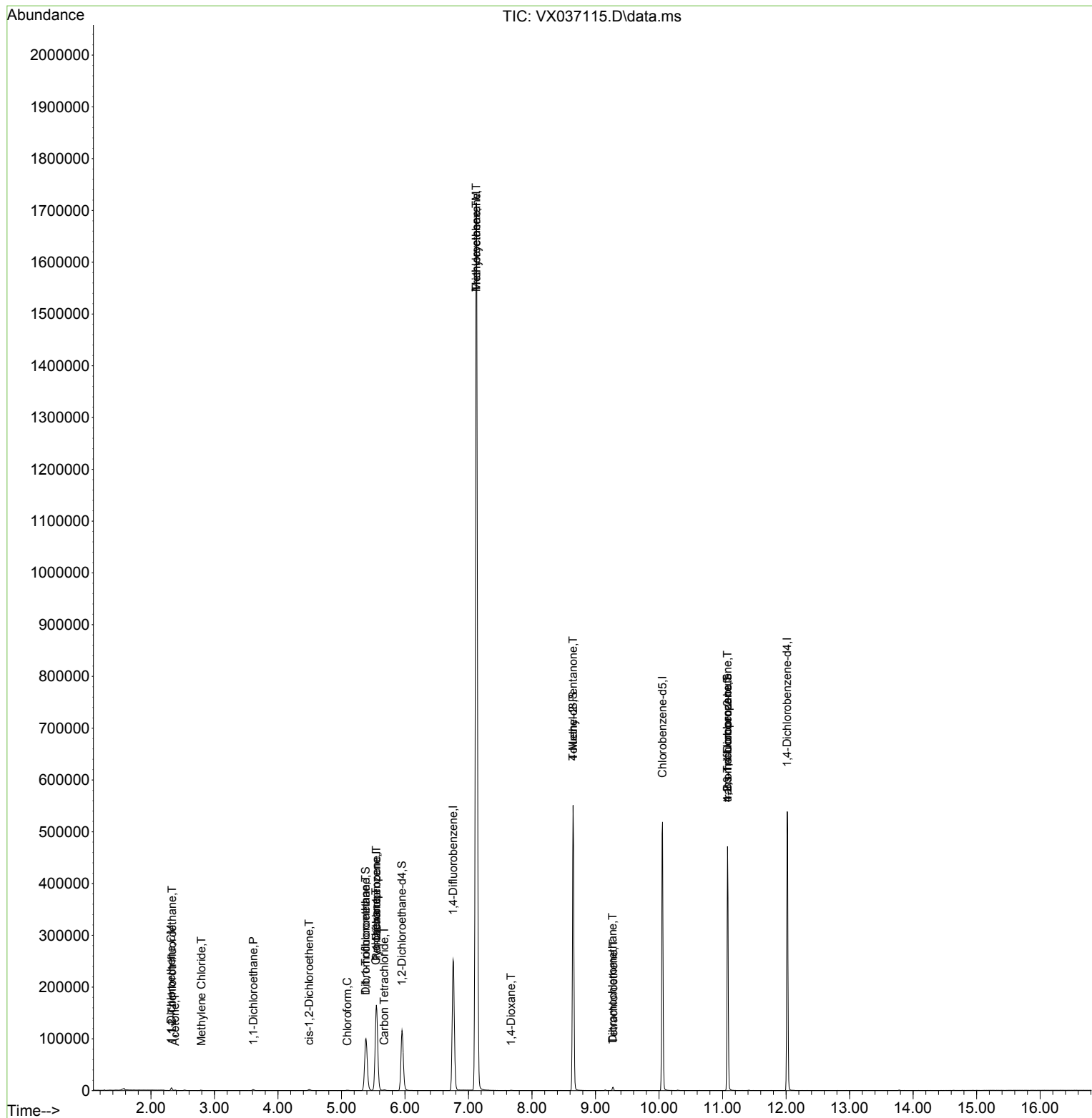
| Compound                      | R.T. QIon |                | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|-----------|----------------|----------|---------|----------|----------|
| Internal Standards            |           |                |          |         |          |          |
| 1) Pentafluorobenzene         | 5.550     | 168            | 151408   | 50.000  | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757     | 114            | 264913   | 50.000  | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117            | 242477   | 50.000  | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018    | 152            | 112859   | 50.000  | ug/l     | 0.00     |
| System Monitoring Compounds   |           |                |          |         |          |          |
| 33) 1,2-Dichloroethane-d4     | 5.952     | 65             | 115779   | 53.041  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000    | Range 78 - 117 | Recovery | =       | 106.080% |          |
| 35) Dibromofluoromethane      | 5.379     | 113            | 88155    | 50.246  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000    | Range 75 - 124 | Recovery | =       | 100.500% |          |
| 50) Toluene-d8                | 8.647     | 98             | 326638   | 51.325  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000    | Range 92 - 112 | Recovery | =       | 102.660% |          |
| 62) 4-Bromofluorobenzene      | 11.079    | 95             | 125127   | 50.031  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000    | Range 83 - 123 | Recovery | =       | 100.060% |          |
| Target Compounds              |           |                |          |         |          | Qvalue   |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331     | 101            | 815      | 0.509   | ug/l     | 94       |
| 12) 1,1-Dichloroethene        | 2.319     | 96             | 1320     | 0.847   | ug/l     | 88       |
| 16) Acetone                   | 2.380     | 43             | 1008     | 1.180   | ug/l #   | 88       |
| 20) Methylene Chloride        | 2.794     | 84             | 382      | 0.200   | ug/l #   | 70       |
| 24) 1,1-Dichloroethane        | 3.611     | 63             | 2433     | 0.784   | ug/l #   | 83       |
| 27) cis-1,2-Dichloroethene    | 4.489     | 96             | 1342     | 0.642   | ug/l     | 81       |
| 30) Chloroform                | 5.093     | 83             | 969      | 0.278   | ug/l     | 86       |
| 31) Cyclohexane               | 5.544     | 56             | 3154     | 1.285   | ug/l #   | 1        |
| 32) 1,1,1-Trichloroethane     | 5.379     | 97             | 771      | 0.247   | ug/l #   | 41       |
| 36) 1,1-Dichloropropene       | 5.550     | 75             | 12152    | 4.875   | ug/l #   | 51       |
| 38) Carbon Tetrachloride      | 5.672     | 117            | 1197     | 0.442   | ug/l     | 94       |
| 39) Methylcyclohexane         | 7.123     | 83             | 8100     | 3.093   | ug/l #   | 1        |
| 44) Trichloroethene           | 7.123     | 130            | 675435   | 333.206 | ug/l     | 97       |
| 49) 1,4-Dioxane               | 7.671     | 88             | 546      | 10.284  | ug/l #   | 96       |
| 51) 4-Methyl-2-Pentanone      | 8.647     | 43             | 1354     | 0.552   | ug/l #   | 1        |
| 60) Dibromochloromethane      | 9.269     | 129            | 1208     | 0.590   | ug/l #   | 11       |
| 64) Tetrachloroethene         | 9.281     | 164            | 1167     | 0.660   | ug/l #   | 80       |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75             | 64185    | 26.704  | ug/l #   | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75             | 64185    | 74.587  | ug/l #   | 5        |

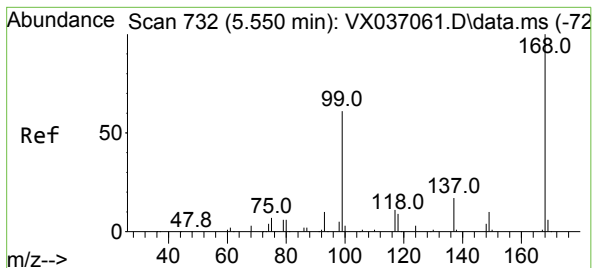
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

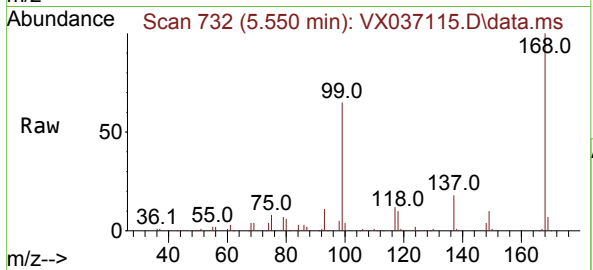
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 18 09:30:38 2023  
Response via : Initial Calibration



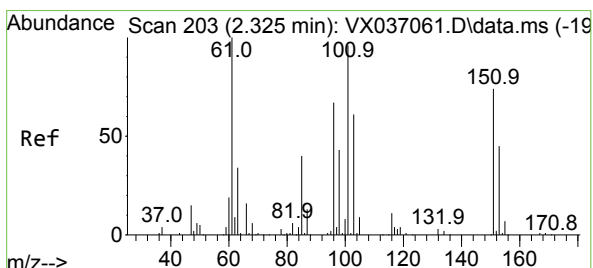
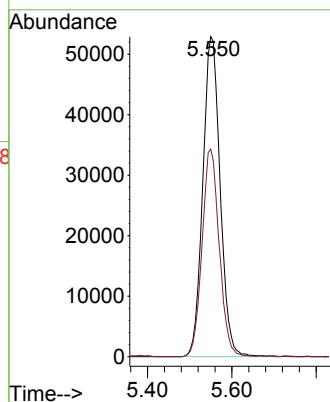
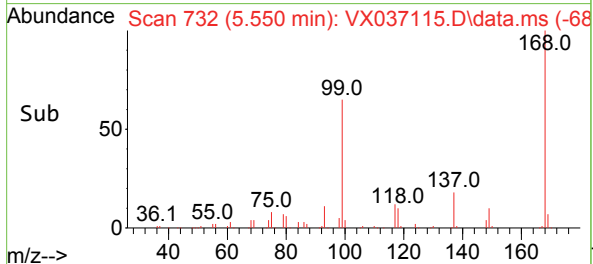


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX037115.D  
Acq: 19 Aug 2023 07:34

Instrument :  
MSVOA\_X  
ClientSampleId :

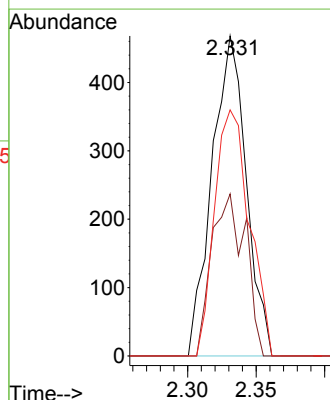
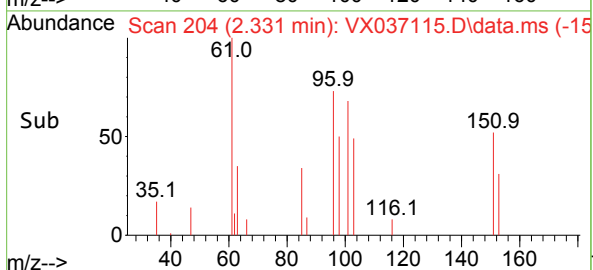
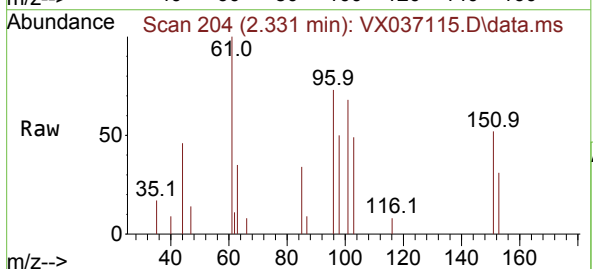


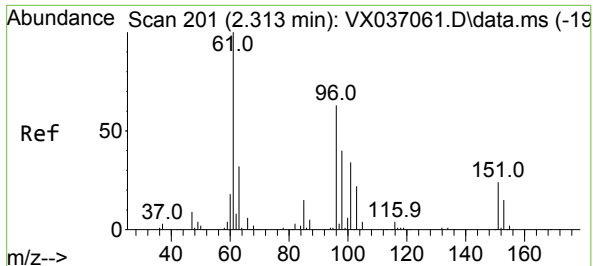
Tgt Ion:168 Resp: 151408  
Ion Ratio Lower Upper  
168 100  
99 64.8 56.6 85.0



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.509 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. 0.006 min  
Lab File: VX037115.D  
Acq: 19 Aug 2023 07:34

Tgt Ion:101 Resp: 815  
Ion Ratio Lower Upper  
101 100  
85 49.9 37.0 55.6  
151 78.2 58.6 87.8





#12

1,1-Dichloroethene

Concen: 0.847 ug/l

RT: 2.319 min Scan# 201

Delta R.T. 0.006 min

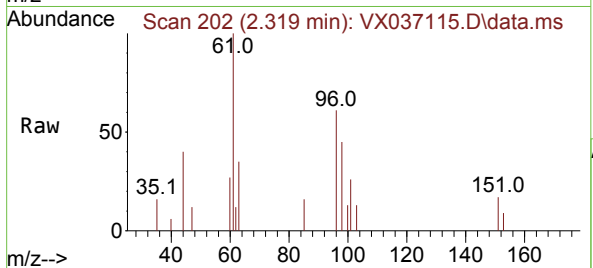
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Acq: 19 Aug 2023 07:34

Instrument :

MSVOA\_X

ClientSampleId :



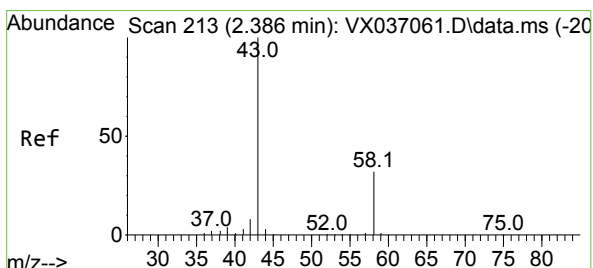
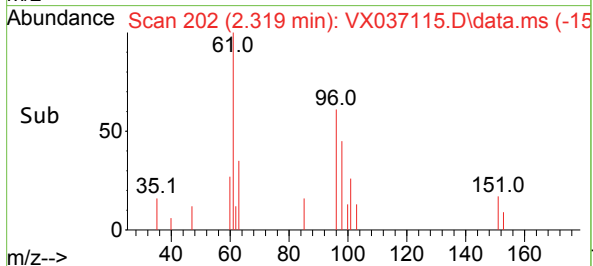
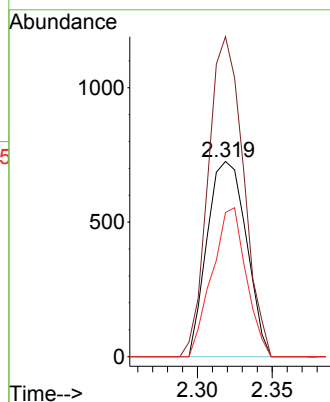
Tgt Ion: 96 Resp: 1320

Ion Ratio Lower Upper

96 100

61 163.9 144.6 216.8

98 73.8 50.4 75.6



#16

Acetone

Concen: 1.180 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX037115.D

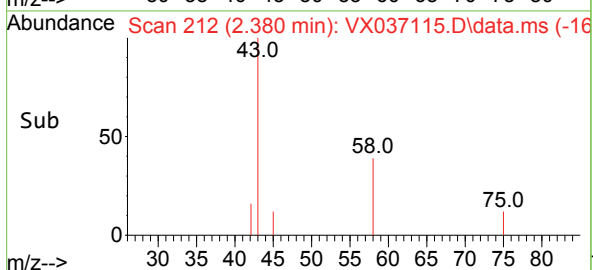
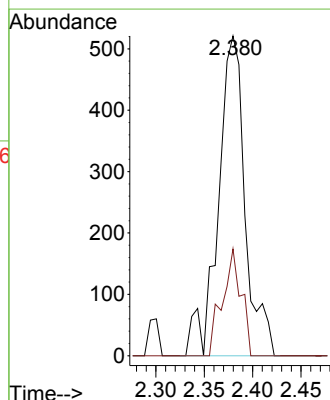
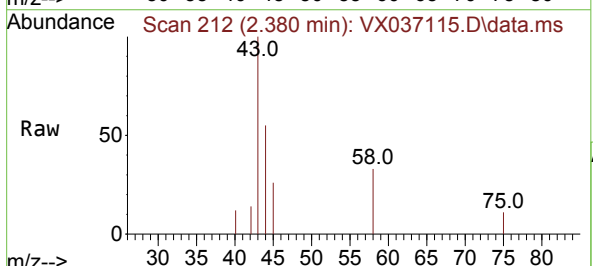
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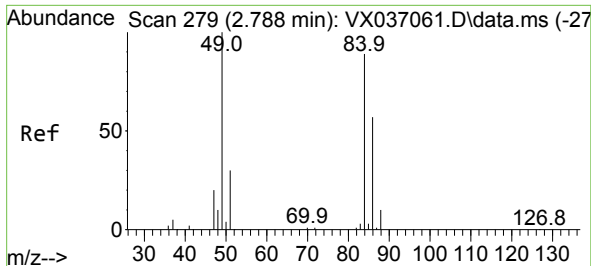
Tgt Ion: 43 Resp: 1008

Ion Ratio Lower Upper

43 100

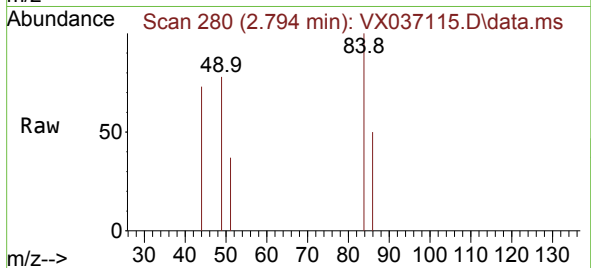
58 33.4 21.9 32.9#



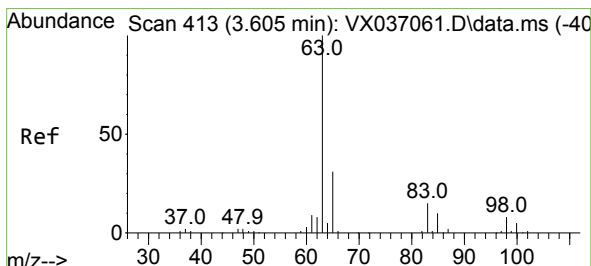
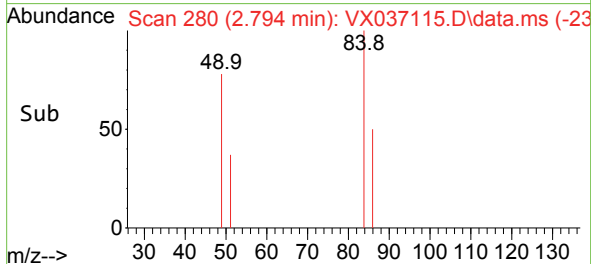
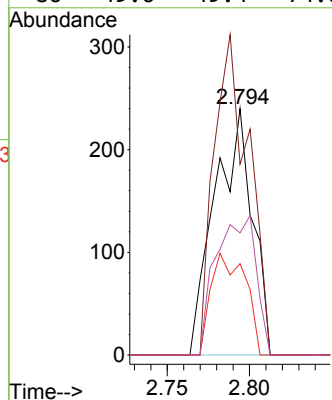


#20  
Methylene Chloride  
Concen: 0.200 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX037115.D  
Acq: 19 Aug 2023 07:34

Instrument :  
MSVOA\_X  
ClientSampleId :

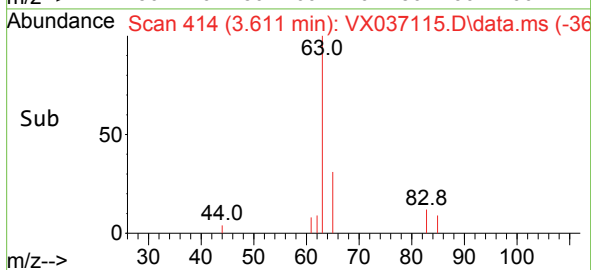
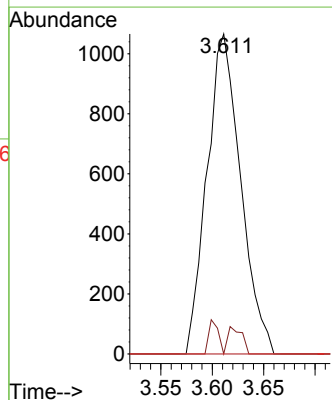
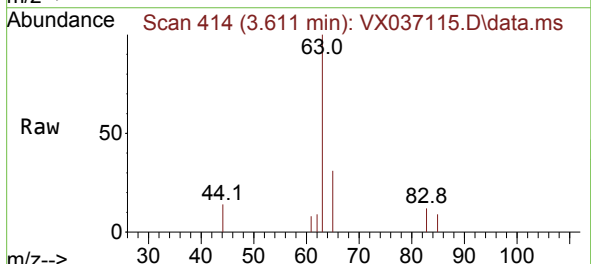


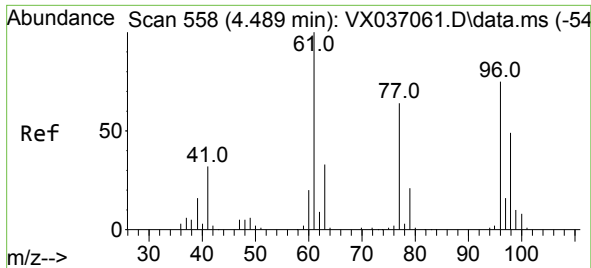
Tgt Ion: 84 Resp: 382  
Ion Ratio Lower Upper  
84 100  
49 77.5 103.6 155.4#  
51 37.1 33.8 50.6  
86 49.6 49.4 74.0



#24  
1,1-Dichloroethane  
Concen: 0.784 ug/l  
RT: 3.611 min Scan# 414  
Delta R.T. 0.006 min  
Lab File: VX037115.D  
Acq: 19 Aug 2023 07:34

Tgt Ion: 63 Resp: 2433  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.3 9.8#  
100 0.0 2.1 6.5#





#27

cis-1,2-Dichloroethene

Concen: 0.642 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX037115.D

Acq: 19 Aug 2023 07:34

Instrument :

MSVOA\_X

ClientSampleId :

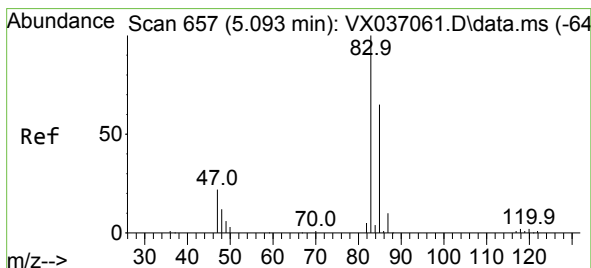
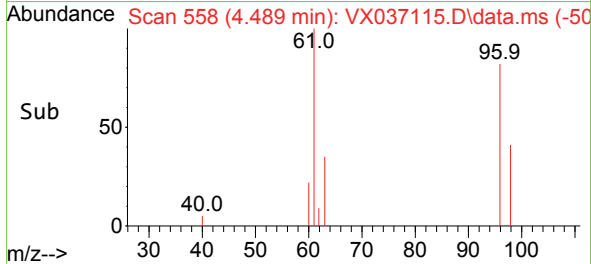
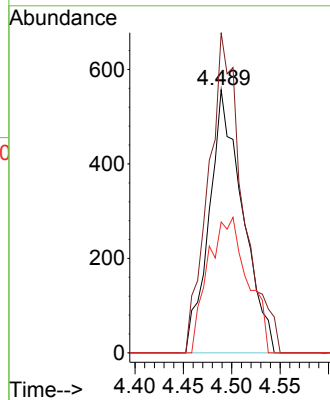
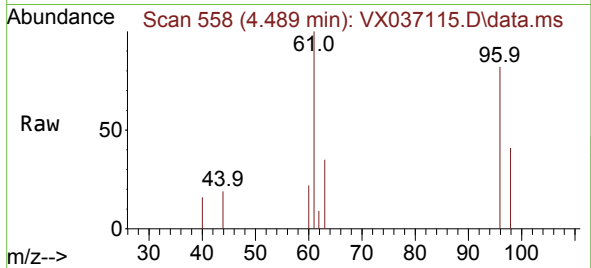
Tgt Ion: 96 Resp: 1342

Ion Ratio Lower Upper

96 100

61 124.3 0.0 312.2

98 61.0 0.0 129.0



#30

Chloroform

Concen: 0.278 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.000 min

Lab File: VX037115.D

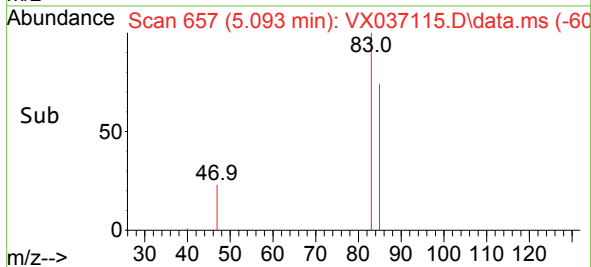
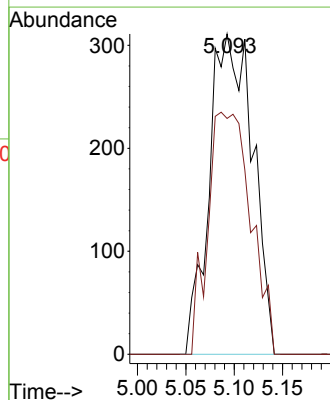
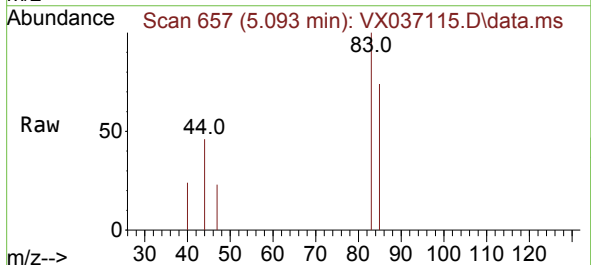
Acq: 19 Aug 2023 07:34

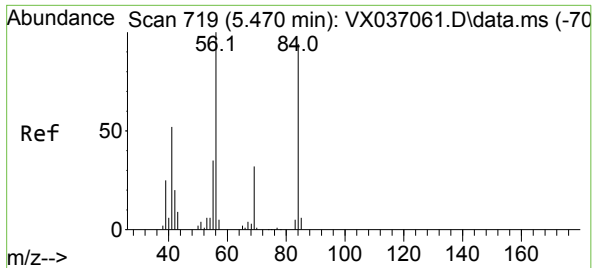
Tgt Ion: 83 Resp: 969

Ion Ratio Lower Upper

83 100

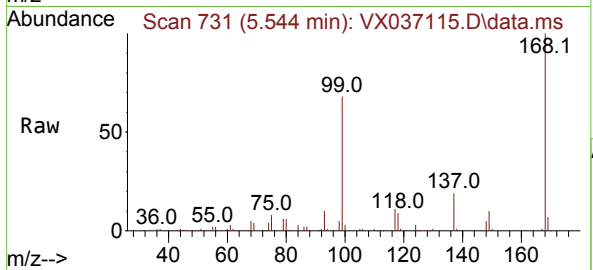
85 73.6 50.3 75.5



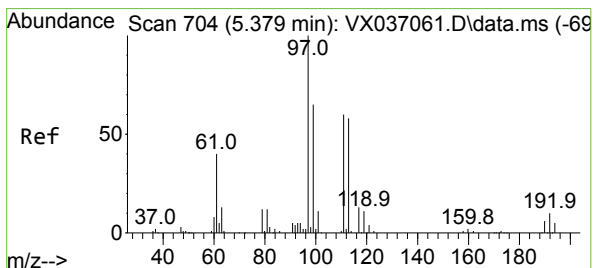
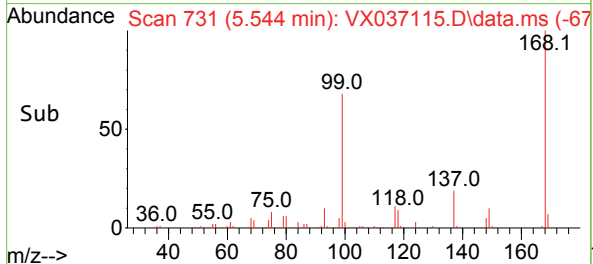
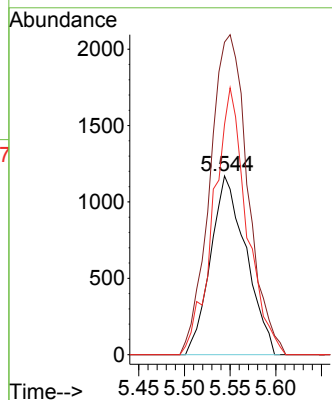


#31  
Cyclohexane  
Concen: 1.285 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX037115.D  
Acq: 19 Aug 2023 07:34

Instrument :  
MSVOA\_X  
ClientSampleId :

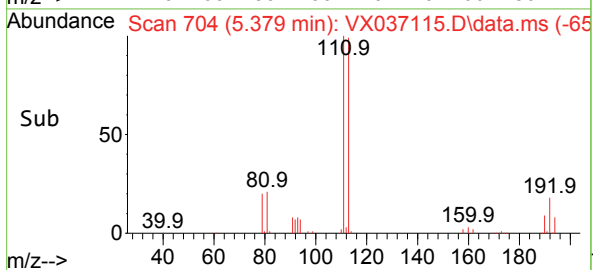
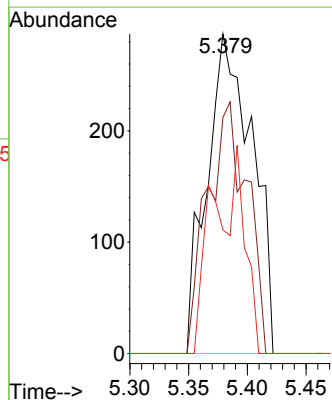
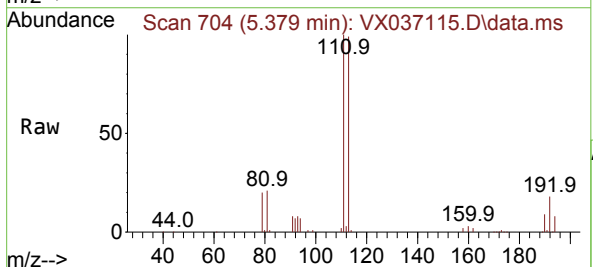


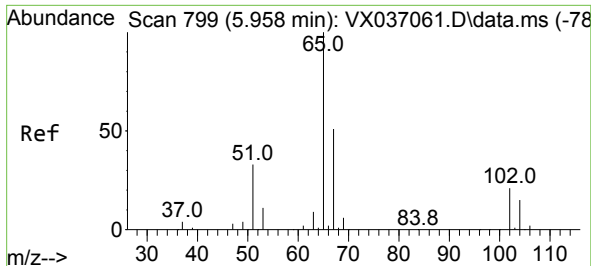
Tgt Ion: 56 Resp: 3154  
Ion Ratio Lower Upper  
56 100  
69 174.9 23.4 35.2#  
84 128.8 65.9 98.9#



#32  
1,1,1-Trichloroethane  
Concen: 0.247 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. 0.000 min  
Lab File: VX037115.D  
Acq: 19 Aug 2023 07:34

Tgt Ion: 97 Resp: 771  
Ion Ratio Lower Upper  
97 100  
99 0.0 51.1 76.7#  
61 27.6 36.4 54.6#

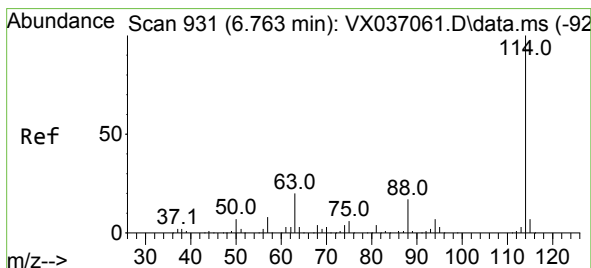
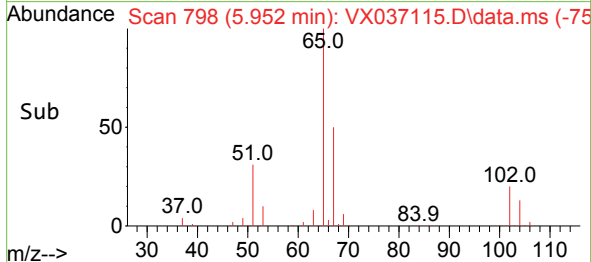
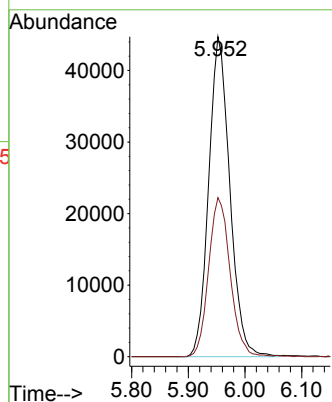
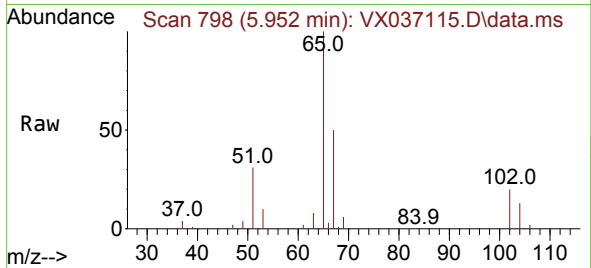




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.041 ug/l  
 RT: 5.952 min Scan# 799  
 Delta R.T. -0.006 min  
 Lab File: VX037115.D  
 Acq: 19 Aug 2023 07:34

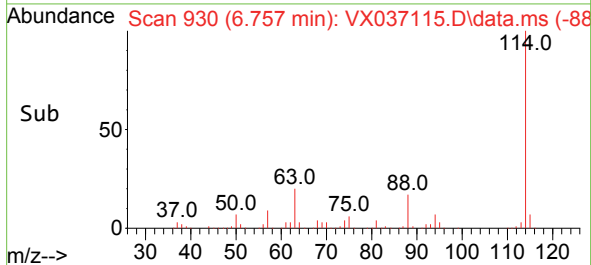
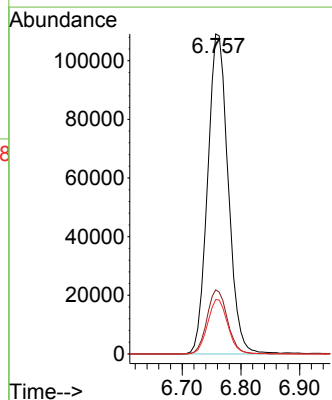
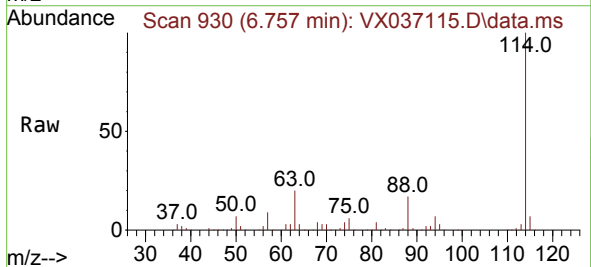
Instrument :  
 MSVOA\_X  
 ClientSampleId :

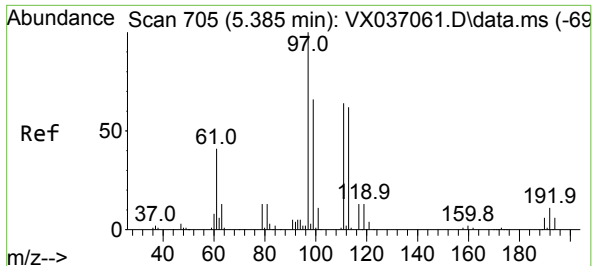
Tgt Ion: 65 Resp: 115779  
 Ion Ratio Lower Upper  
 65 100  
 67 50.6 0.0 100.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.757 min Scan# 930  
 Delta R.T. -0.006 min  
 Lab File: VX037115.D  
 Acq: 19 Aug 2023 07:34

Tgt Ion: 114 Resp: 264913  
 Ion Ratio Lower Upper  
 114 100  
 63 20.0 0.0 45.0  
 88 17.0 0.0 36.6





#35

Dibromofluoromethane

Concen: 50.246 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX037115.D

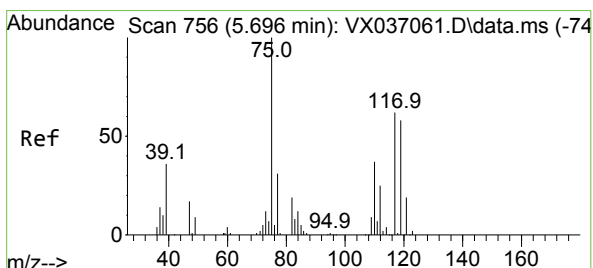
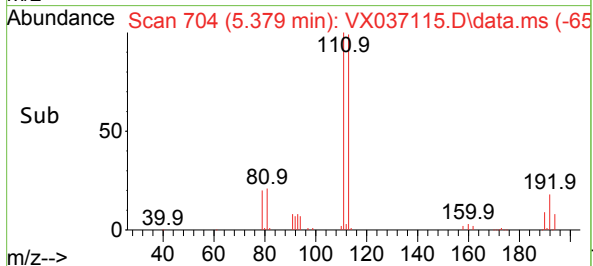
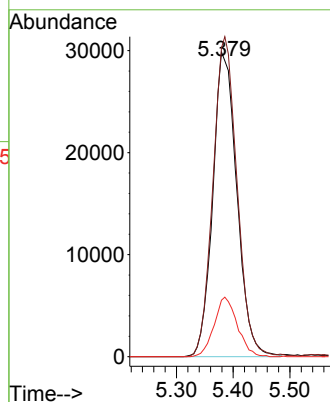
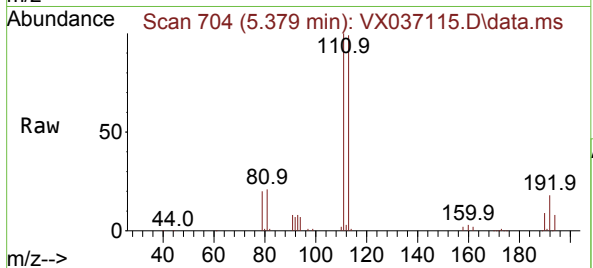
Acq: 19 Aug 2023 07:34

Instrument :

MSVOA\_X

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 88155 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 105.1 | 82.9  | 124.3 |
| 192      | 18.8  | 13.3  | 19.9  |



#36

1,1-Dichloropropene

Concen: 4.875 ug/l

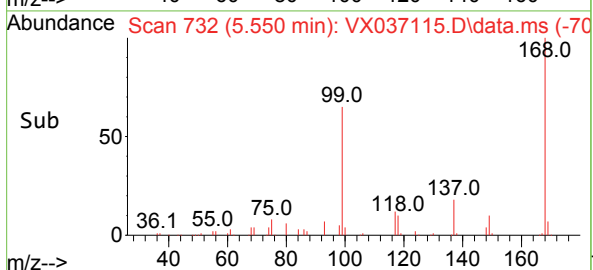
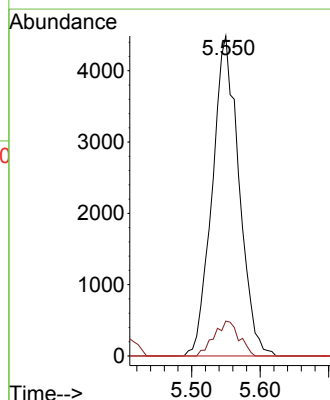
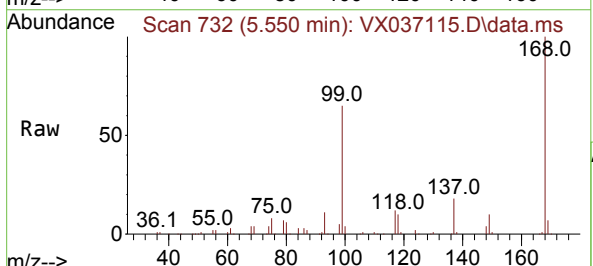
RT: 5.550 min Scan# 732

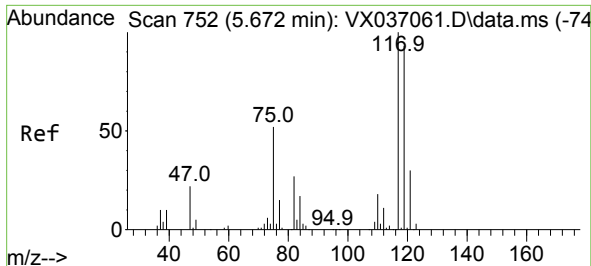
Delta R.T. -0.146 min

Lab File: VX037115.D

Acq: 19 Aug 2023 07:34

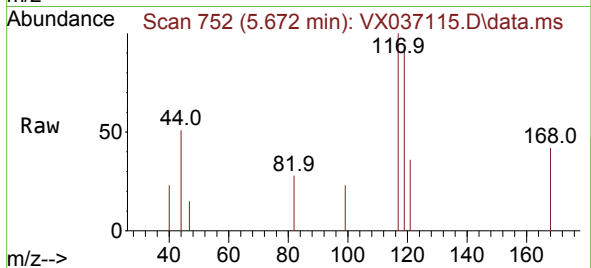
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 12152 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 10.1  | 17.0  | 50.9# |
| 77       | 0.0   | 24.7  | 37.1# |



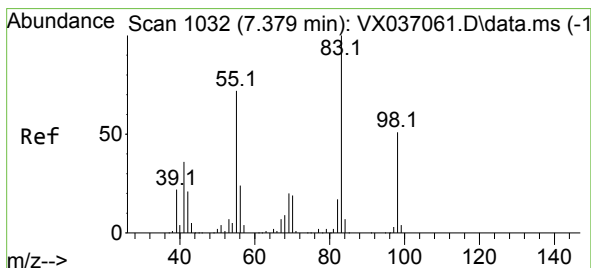
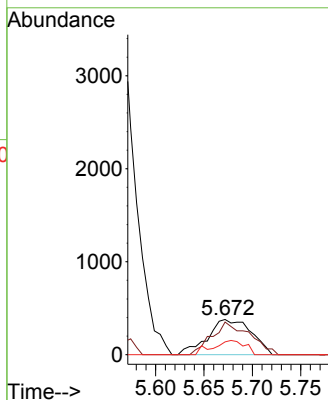
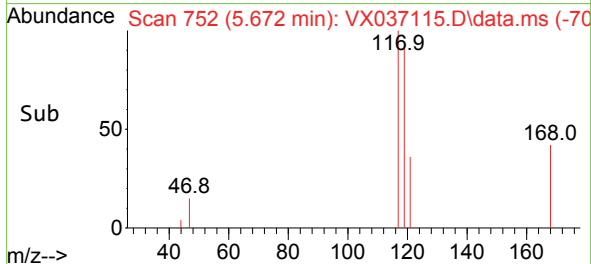


#38  
Carbon Tetrachloride  
Concen: 0.442 ug/l  
RT: 5.672 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VX037115.D  
Acq: 19 Aug 2023 07:34

Instrument :  
MSVOA\_X  
ClientSampleId :

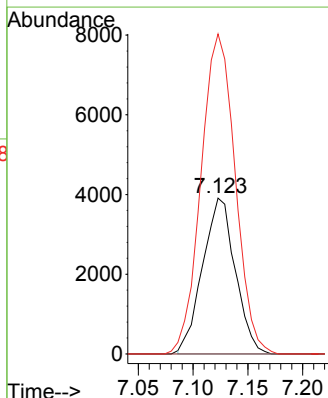
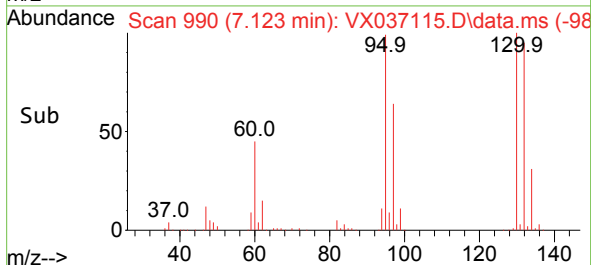
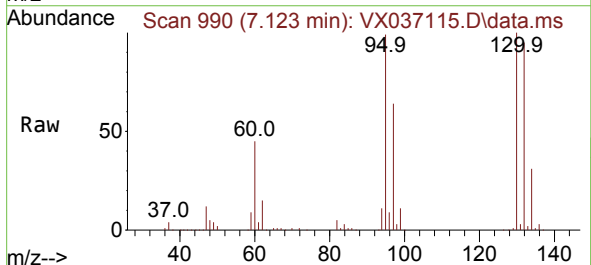


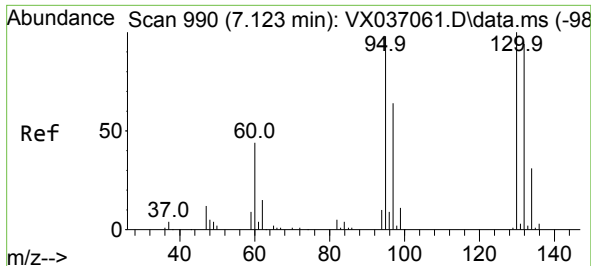
Tgt Ion:117 Resp: 1197  
Ion Ratio Lower Upper  
117 100  
119 92.9 78.2 117.2  
121 36.4 24.4 36.6



#39  
Methylcyclohexane  
Concen: 3.093 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.256 min  
Lab File: VX037115.D  
Acq: 19 Aug 2023 07:34

Tgt Ion: 83 Resp: 8100  
Ion Ratio Lower Upper  
83 100  
55 0.0 64.6 97.0#  
98 205.2 36.7 55.1#

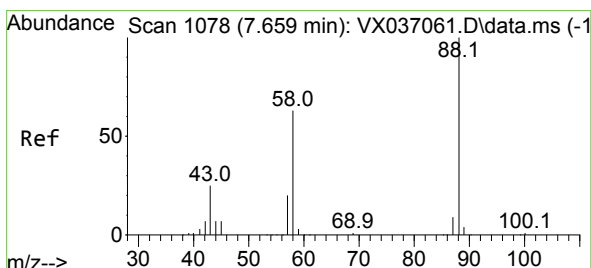
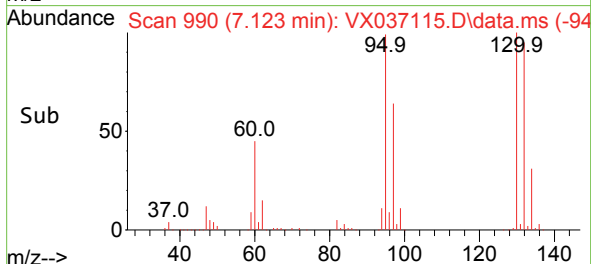
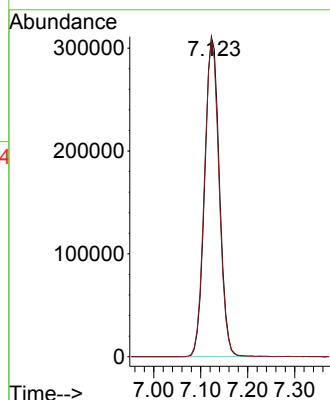
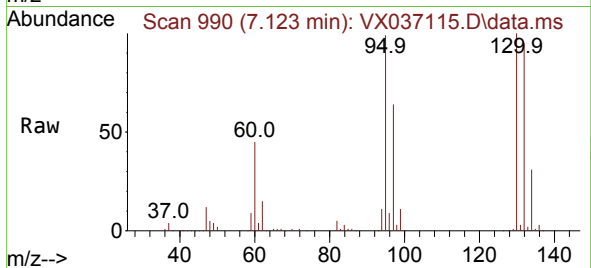




#44  
Trichloroethene  
Concen: 333.206 ug/l  
RT: 7.123 min Scan# 94  
Delta R.T. 0.000 min  
Lab File: VX037115.D  
Acq: 19 Aug 2023 07:34

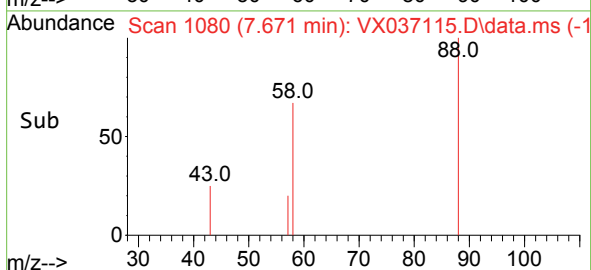
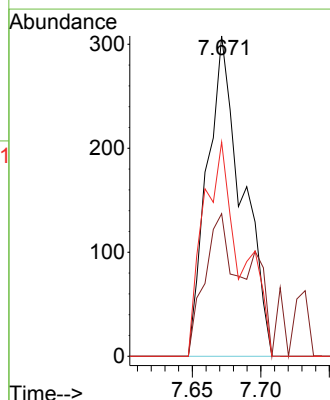
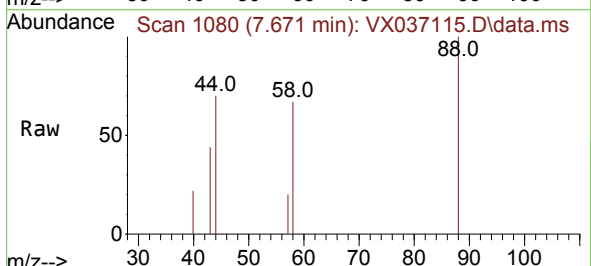
Instrument :  
MSVOA\_X  
ClientSampleId :

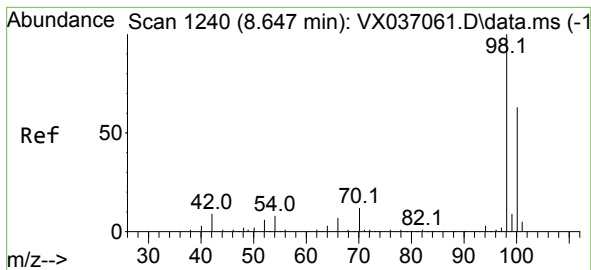
Tgt Ion:130 Resp: 675435  
Ion Ratio Lower Upper  
130 100  
95 99.4 0.0 204.4



#49  
1,4-Dioxane  
Concen: 10.284 ug/l  
RT: 7.671 min Scan# 1080  
Delta R.T. 0.012 min  
Lab File: VX037115.D  
Acq: 19 Aug 2023 07:34

Tgt Ion: 88 Resp: 546  
Ion Ratio Lower Upper  
88 100  
43 41.2 0.0 0.0#  
58 72.0 60.1 90.1





#50

Toluene-d8

Concen: 51.325 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX037115.D

Acq: 19 Aug 2023 07:34

Instrument :

MSVOA\_X

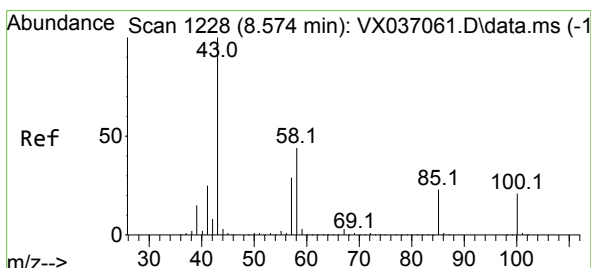
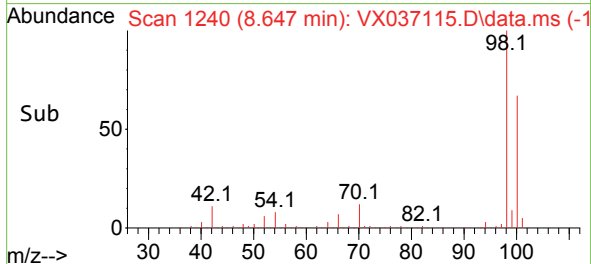
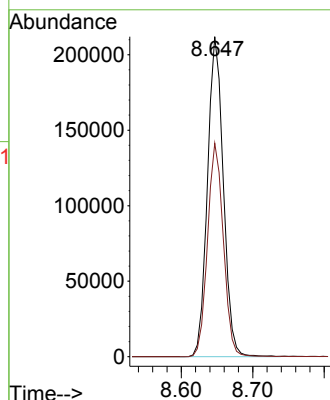
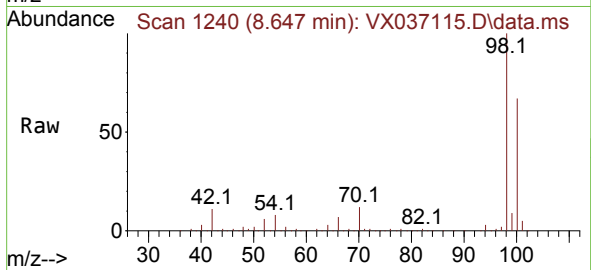
ClientSampleId :

Tgt Ion: 98 Resp: 326638

Ion Ratio Lower Upper

98 100

100 66.4 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 0.552 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX037115.D

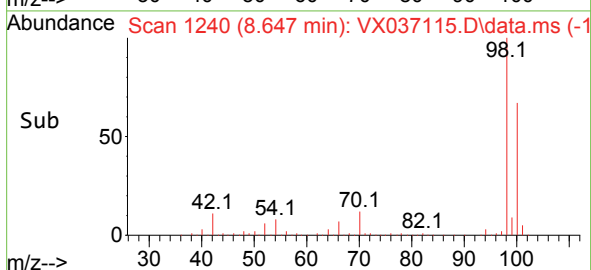
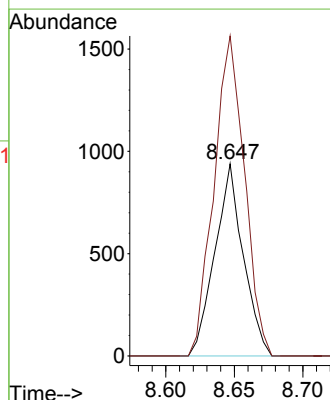
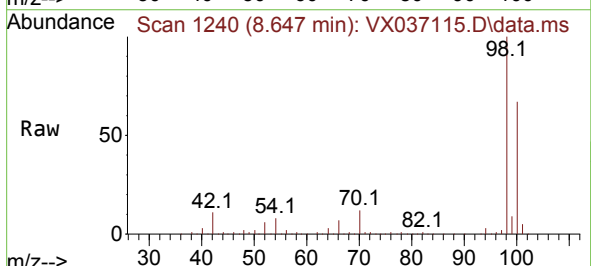
Acq: 19 Aug 2023 07:34

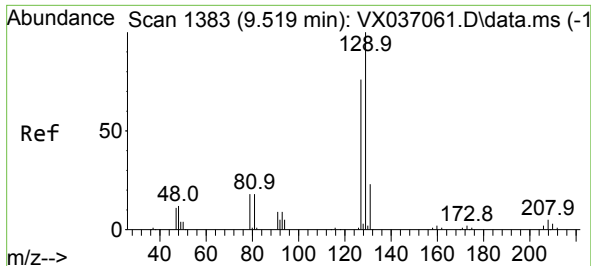
Tgt Ion: 43 Resp: 1354

Ion Ratio Lower Upper

43 100

58 179.2 30.4 45.6#

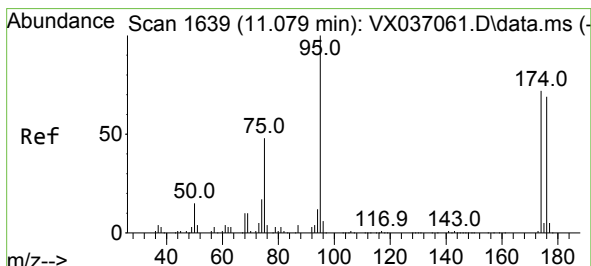
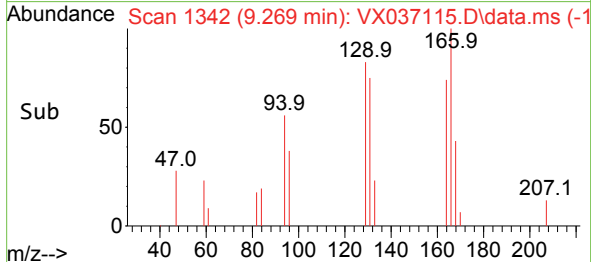
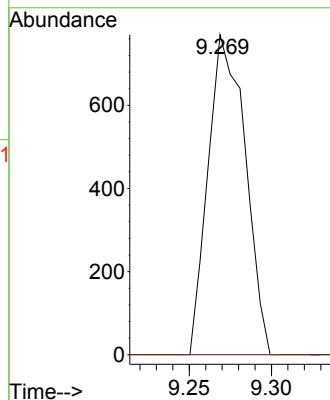
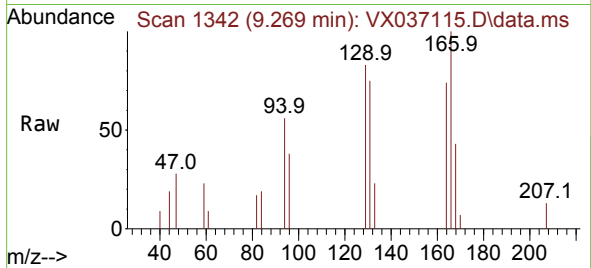




#60  
Dibromochloromethane  
Concen: 0.590 ug/l  
RT: 9.269 min Scan# 11  
Delta R.T. -0.250 min  
Lab File: VX037115.D  
Acq: 19 Aug 2023 07:34

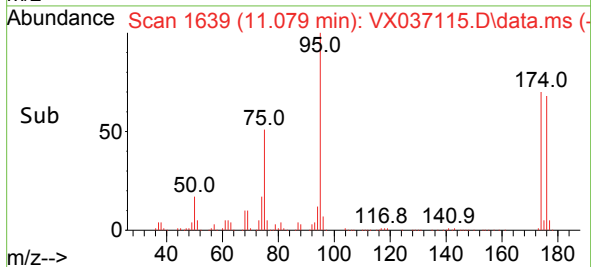
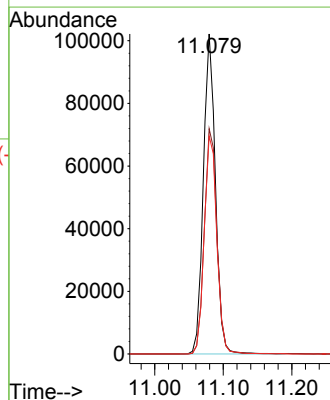
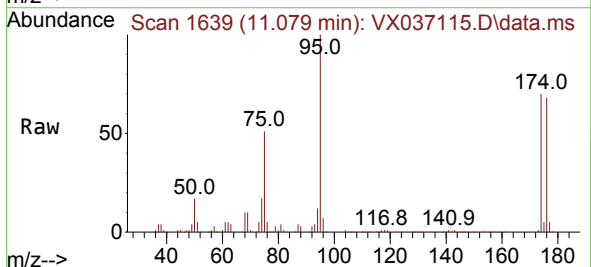
Instrument :  
MSVOA\_X  
ClientSampleId :

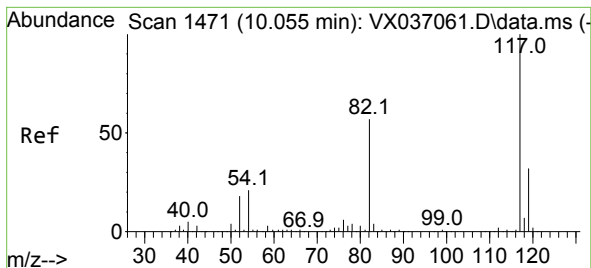
Tgt Ion:129 Resp: 1208  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#



#62  
4-Bromofluorobenzene  
Concen: 50.031 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX037115.D  
Acq: 19 Aug 2023 07:34

Tgt Ion: 95 Resp: 125127  
Ion Ratio Lower Upper  
95 100  
174 73.5 0.0 135.6  
176 71.5 0.0 131.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX037115.D

Acq: 19 Aug 2023 07:34

Instrument :

MSVOA\_X

ClientSampleId :

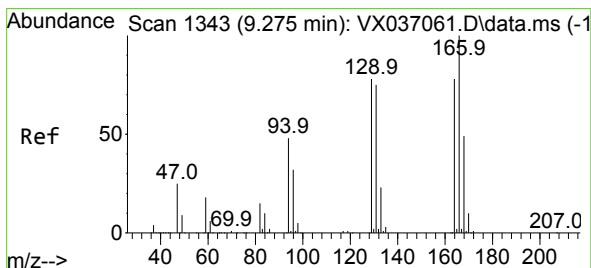
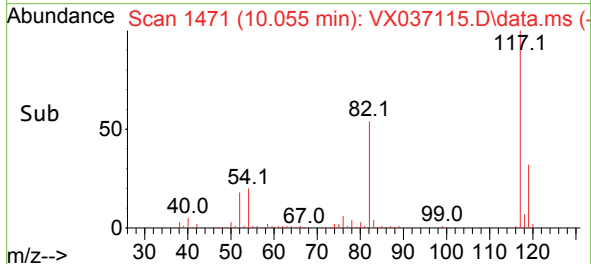
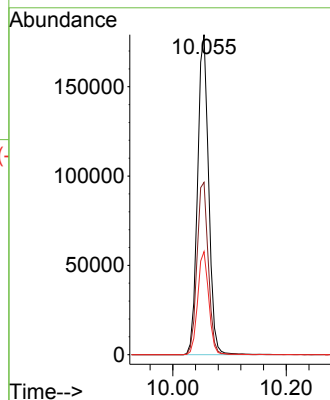
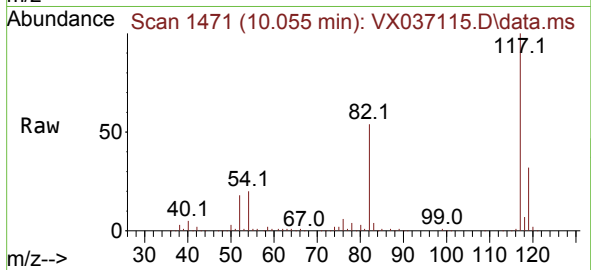
Tgt Ion:117 Resp: 242477

Ion Ratio Lower Upper

117 100

82 53.9 46.2 69.4

119 32.2 25.5 38.3



#64

Tetrachloroethene

Concen: 0.660 ug/l

RT: 9.281 min Scan# 1344

Delta R.T. 0.006 min

Lab File: VX037115.D

Acq: 19 Aug 2023 07:34

Tgt Ion:164 Resp: 1167

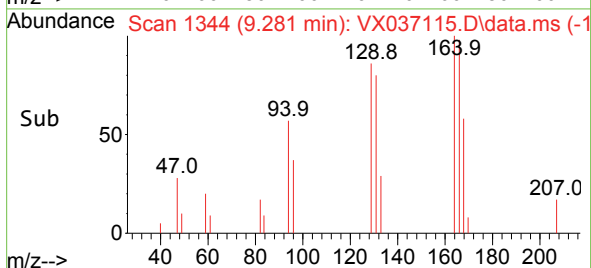
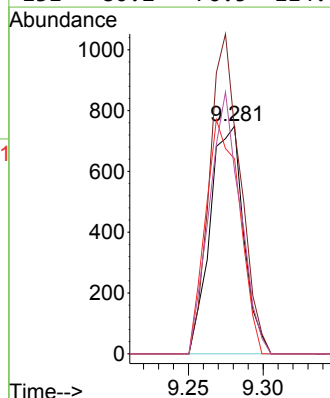
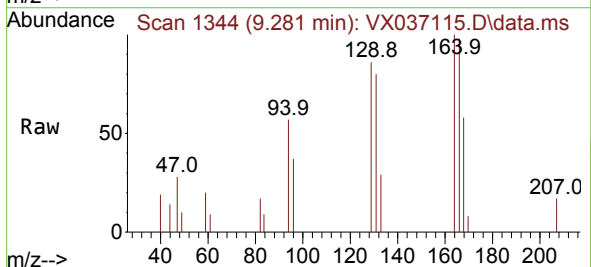
Ion Ratio Lower Upper

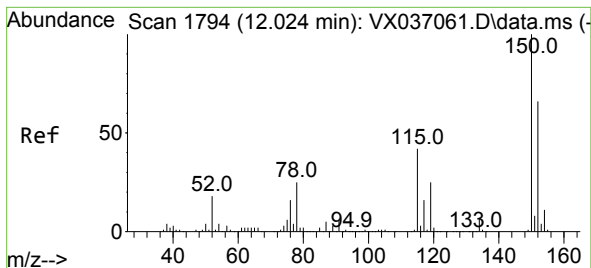
164 100

166 98.4 102.7 154.1#

129 85.6 80.4 120.6

131 80.2 76.5 114.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX037115.D

Acq: 19 Aug 2023 07:34

Instrument :

MSVOA\_X

ClientSampleId :

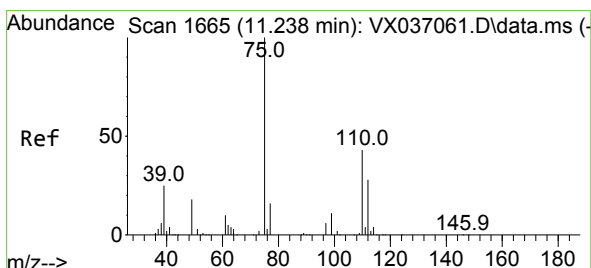
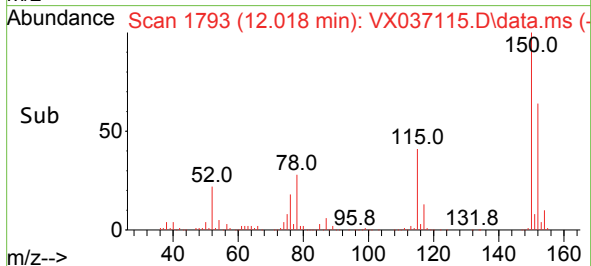
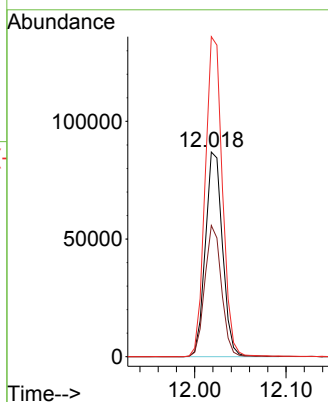
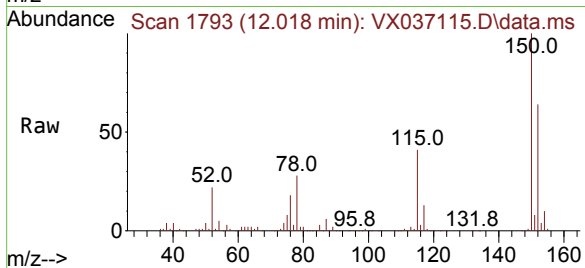
Tgt Ion:152 Resp: 112859

Ion Ratio Lower Upper

152 100

115 62.7 43.3 129.9

150 157.1 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 26.704 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX037115.D

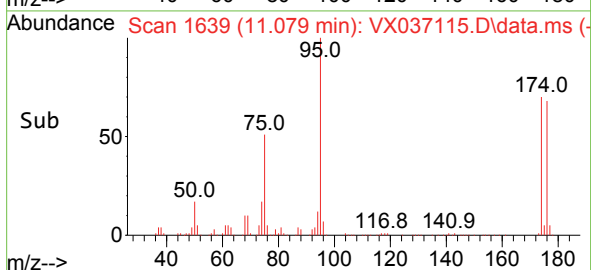
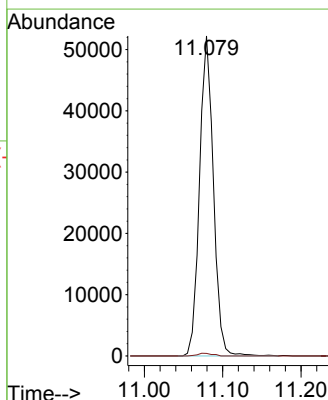
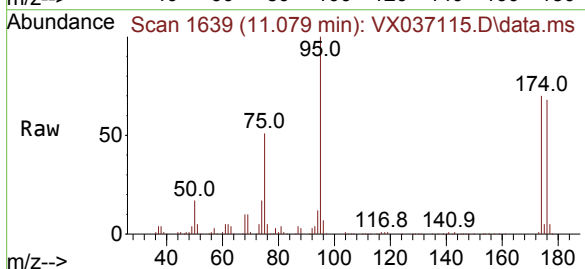
Acq: 19 Aug 2023 07:34

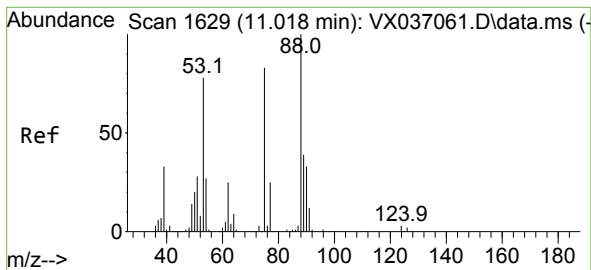
Tgt Ion: 75 Resp: 64185

Ion Ratio Lower Upper

75 100

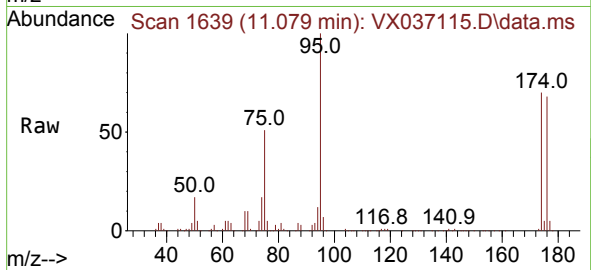
77 0.9 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 74.587 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX037115.D  
 Acq: 19 Aug 2023 07:34

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 64185  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

