

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX083123\  
 Data File : VX037436.D  
 Acq On : 31 Aug 2023 17:30  
 Operator : JC/MD  
 Sample : 04128-14  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Sep 01 03:14:43 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

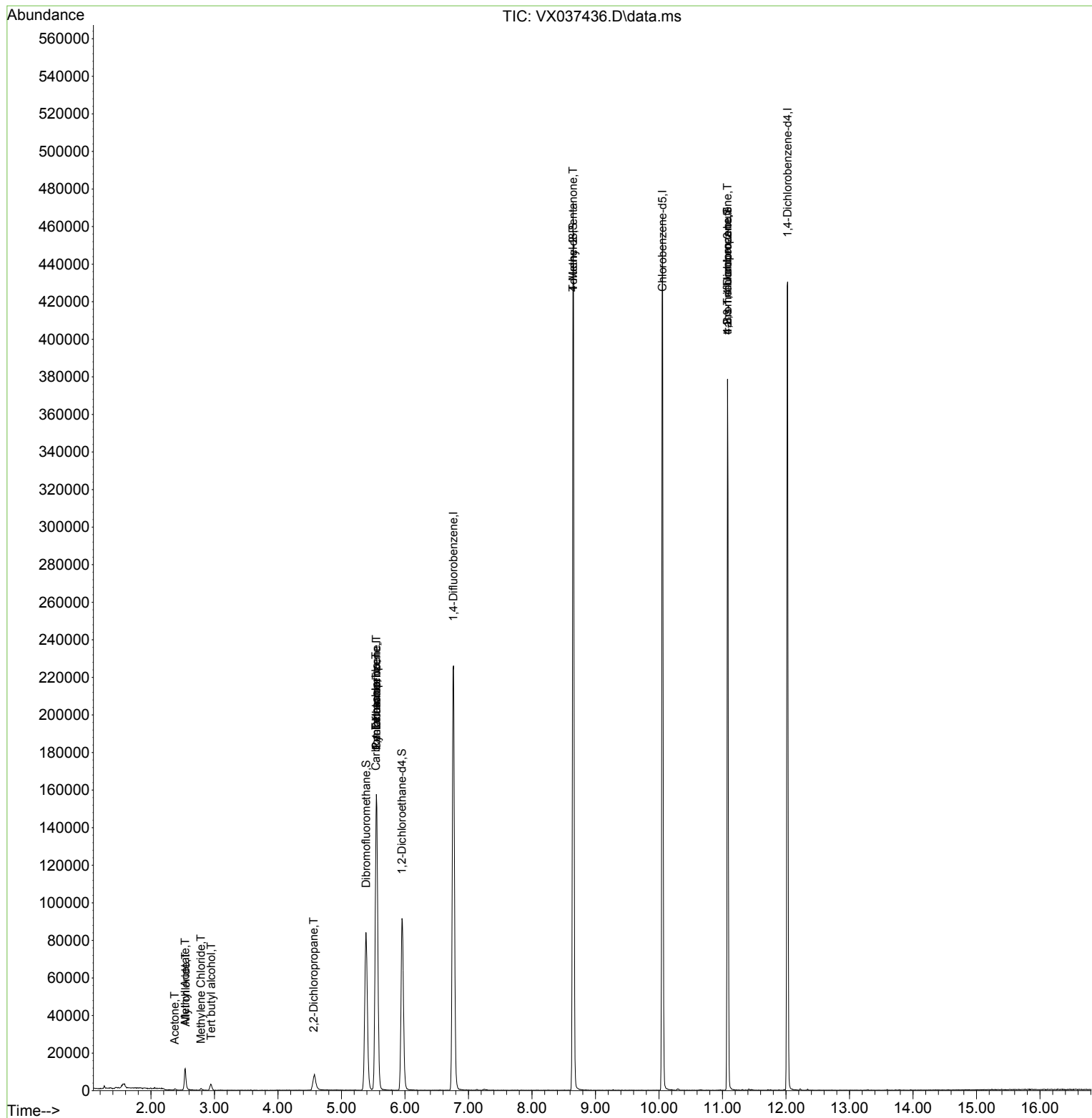
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 147691   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 244133   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 215379   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 95840    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 91687    | 43.061   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 86.120%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 76037    | 47.028   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 94.060%  |
| 50) Toluene-d8                | 8.647  | 98    | 285551   | 48.688   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 97.380%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 103135   | 44.748   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 89.500%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol        | 2.947  | 59    | 2057     | 4.118    | ug/l # | 78       |
| 14) Allyl chloride            | 2.544  | 41    | 1161     | 0.493    | ug/l # | 71       |
| 16) Acetone                   | 2.374  | 43    | 829      | 0.995    | ug/l   | 91       |
| 18) Methyl Acetate            | 2.538  | 43    | 3670     | 1.170    | ug/l # | 53       |
| 20) Methylene Chloride        | 2.788  | 84    | 507      | 0.272    | ug/l # | 79       |
| 26) 2,2-Dichloropropane       | 4.562  | 77    | 704      | 0.260    | ug/l # | 54       |
| 31) Cyclohexane               | 5.550  | 56    | 2730     | 1.140    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 11511    | 5.011    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 15573    | 6.241    | ug/l # | 15       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 1005     | 0.444    | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 50947    | 24.961   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 50947    | 69.717   | ug/l # | 5        |
| -----                         |        |       |          |          |        |          |

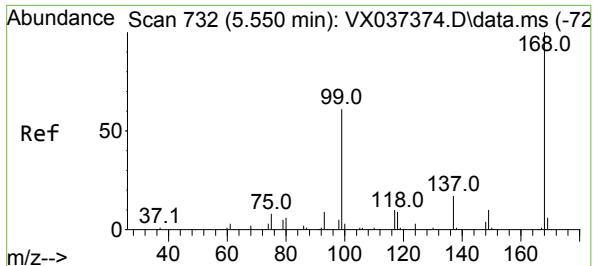
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX083123\  
Data File : VX037436.D  
Acq On : 31 Aug 2023 17:30  
Operator : JC/MD  
Sample : 04128-14  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

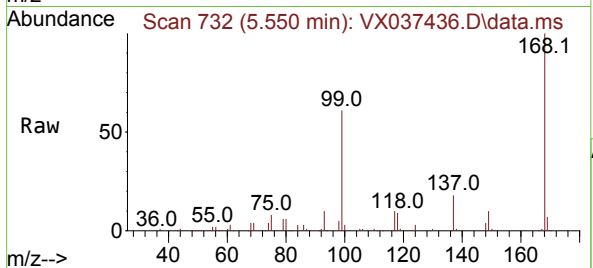
Quant Time: Sep 01 03:14:43 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 18 09:30:38 2023  
Response via : Initial Calibration



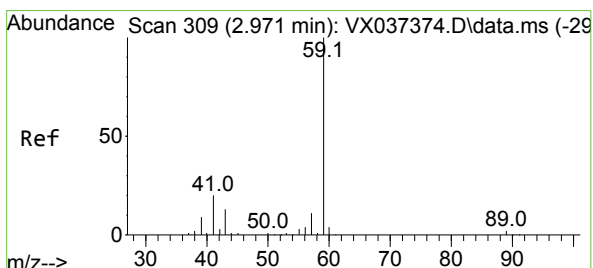
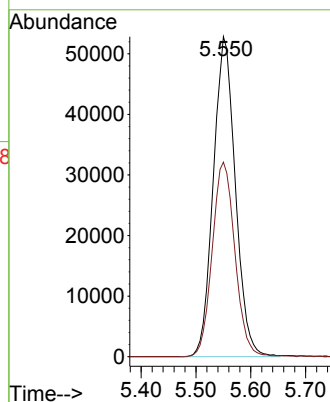
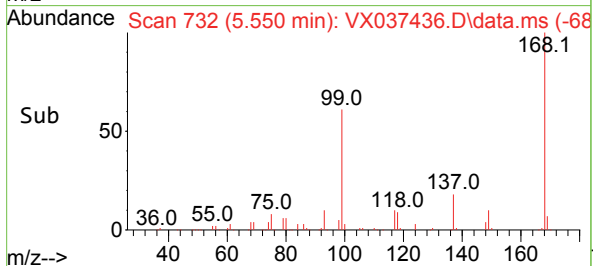


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX037436.D  
Acq: 31 Aug 2023 17:30

Instrument :  
MSVOA\_X  
ClientSampleId :

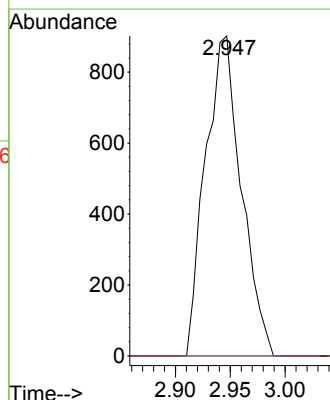
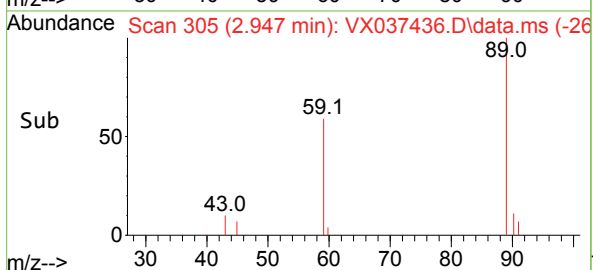
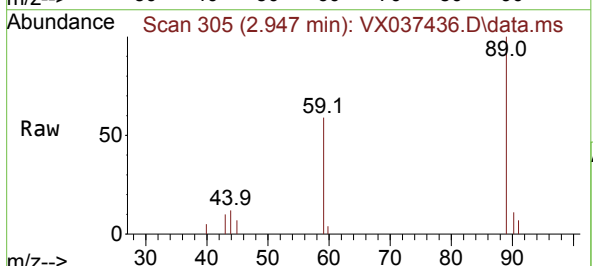


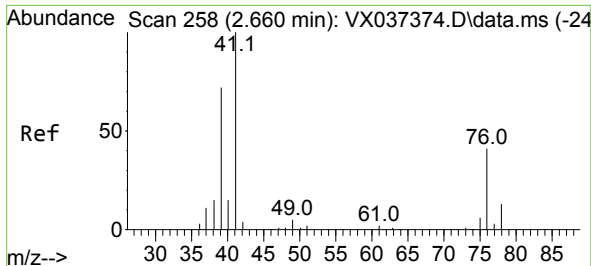
Tgt Ion:168 Resp: 147691  
Ion Ratio Lower Upper  
168 100  
99 60.8 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 4.118 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. -0.030 min  
Lab File: VX037436.D  
Acq: 31 Aug 2023 17:30

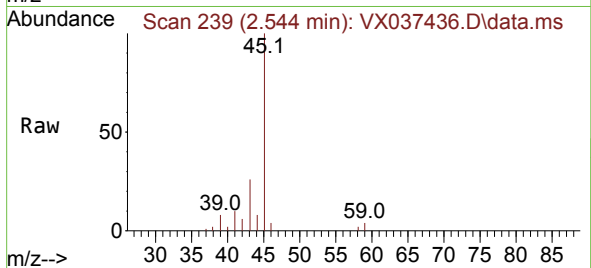
Tgt Ion: 59 Resp: 2057  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#



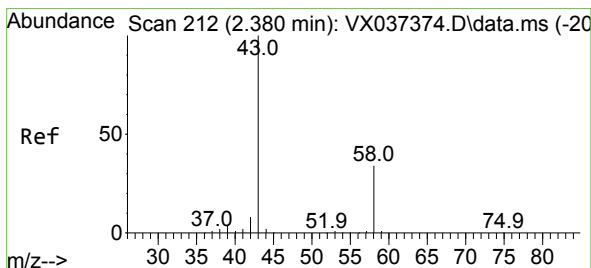
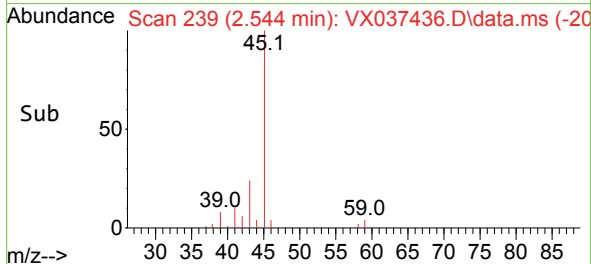
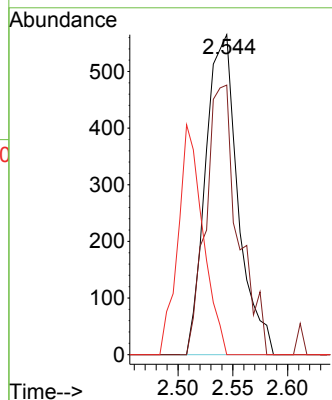


#14  
 Allyl chloride  
 Concen: 0.493 ug/l  
 RT: 2.544 min Scan# 211  
 Delta R.T. -0.116 min  
 Lab File: VX037436.D  
 Acq: 31 Aug 2023 17:30

Instrument :  
 MSVOA\_X  
 ClientSampleId :

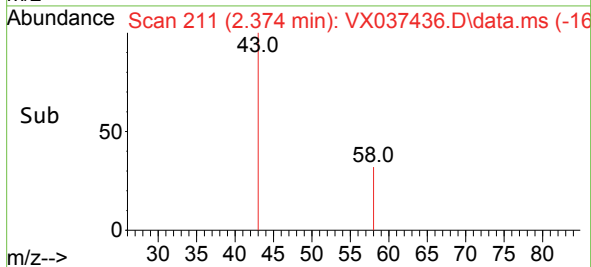
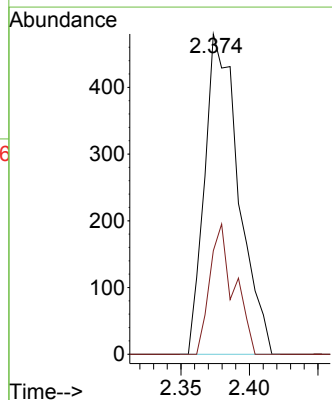
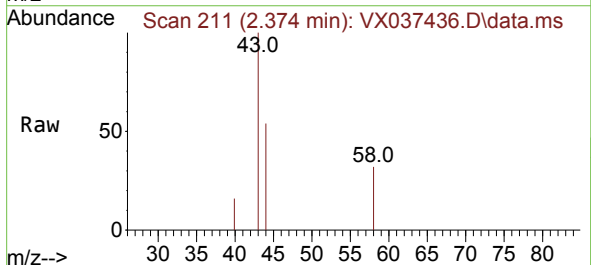


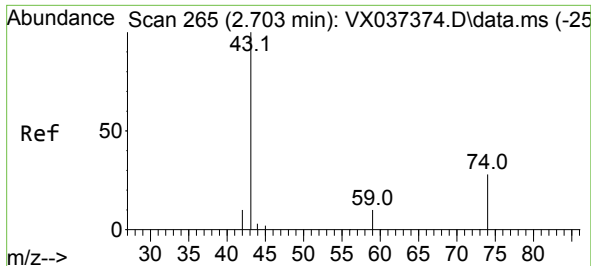
Tgt Ion: 41 Resp: 1161  
 Ion Ratio Lower Upper  
 41 100  
 39 84.0 55.8 83.6#  
 76 0.0 24.3 36.5#



#16  
 Acetone  
 Concen: 0.995 ug/l  
 RT: 2.374 min Scan# 211  
 Delta R.T. -0.012 min  
 Lab File: VX037436.D  
 Acq: 31 Aug 2023 17:30

Tgt Ion: 43 Resp: 829  
 Ion Ratio Lower Upper  
 43 100  
 58 32.3 21.9 32.9





#18

Methyl Acetate

Concen: 1.170 ug/l

RT: 2.538 min Scan# 21

Delta R.T. -0.164 min

Lab File: VX037436.D

Acq: 31 Aug 2023 17:30

Instrument :

MSVOA\_X

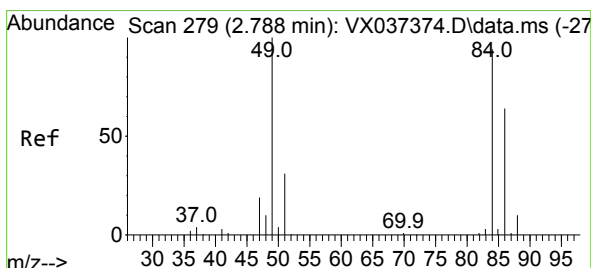
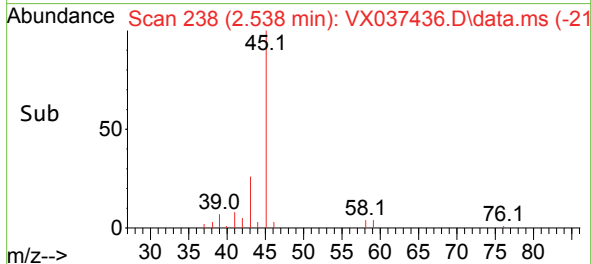
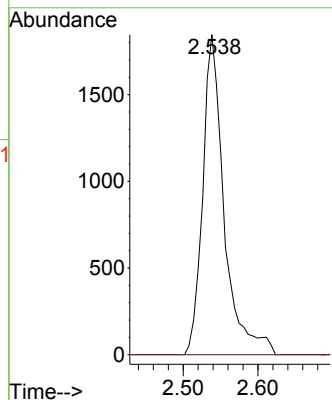
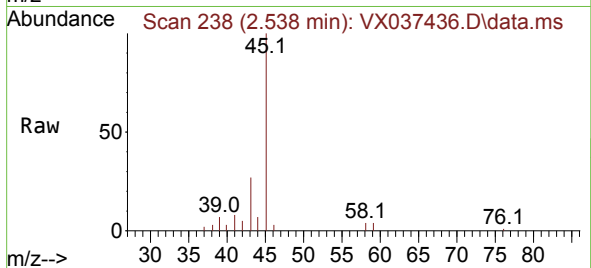
ClientSampleId :

Tgt Ion: 43 Resp: 3670

Ion Ratio Lower Upper

43 100

74 0.0 17.8 26.8#



#20

Methylene Chloride

Concen: 0.272 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX037436.D

Acq: 31 Aug 2023 17:30

Tgt Ion: 84 Resp: 507

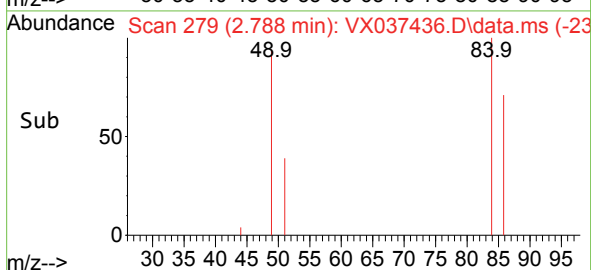
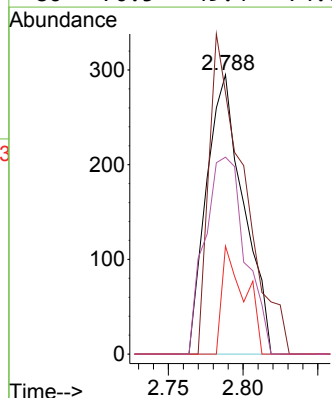
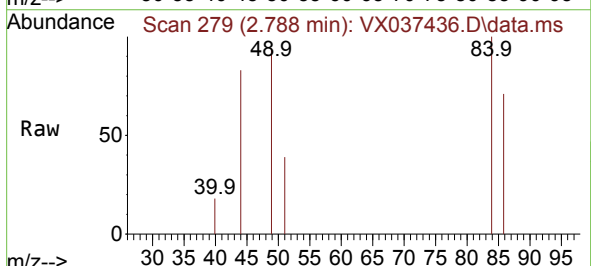
Ion Ratio Lower Upper

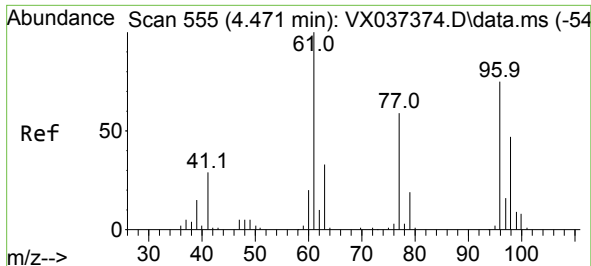
84 100

49 93.6 103.6 155.4#

51 38.6 33.8 50.6

86 70.5 49.4 74.0





#26

2,2-Dichloropropane

Concen: 0.260 ug/l

RT: 4.562 min Scan# 51

Delta R.T. 0.085 min

Lab File: VX037436.D

Acq: 31 Aug 2023 17:30

Instrument :

MSVOA\_X

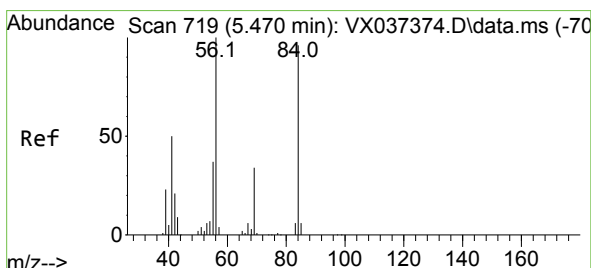
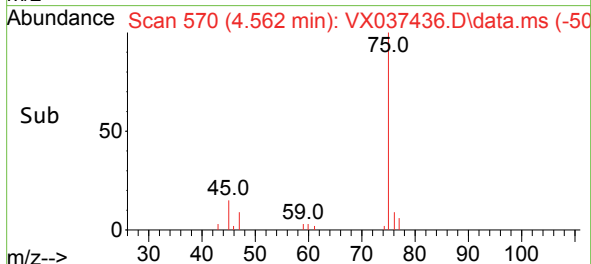
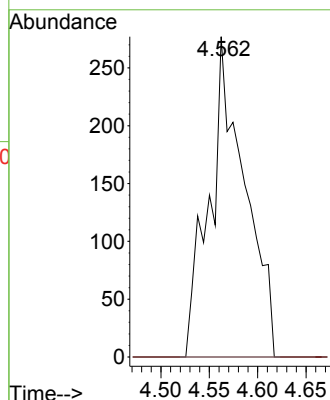
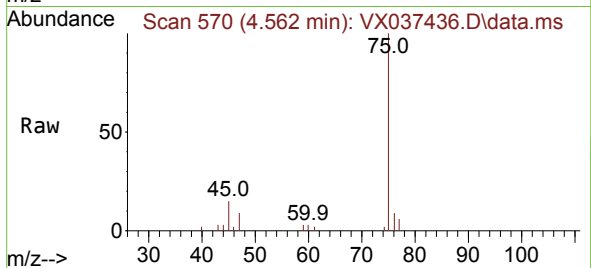
ClientSampleId :

Tgt Ion: 77 Resp: 704

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.3#



#31

Cyclohexane

Concen: 1.140 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX037436.D

Acq: 31 Aug 2023 17:30

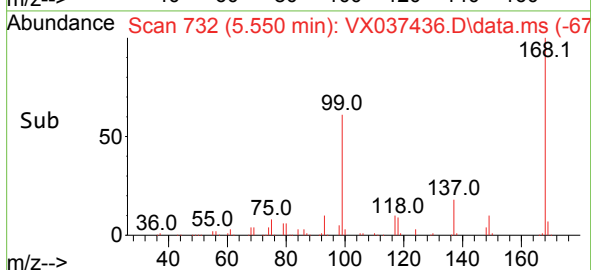
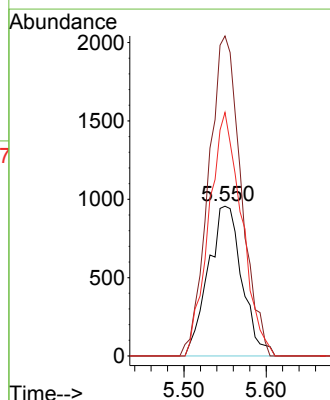
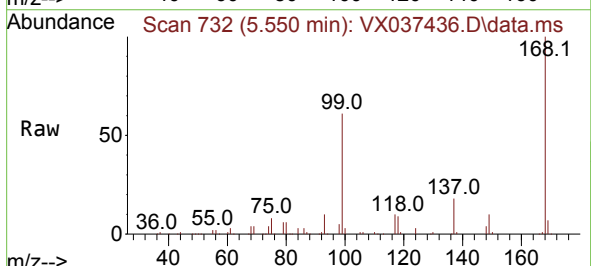
Tgt Ion: 56 Resp: 2730

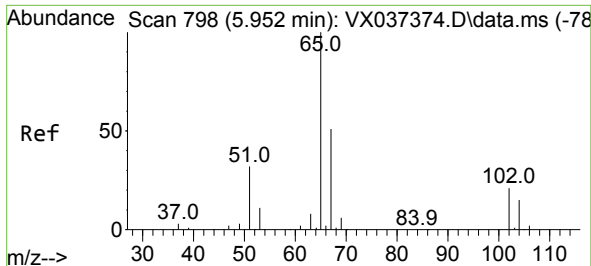
Ion Ratio Lower Upper

56 100

69 213.6 23.4 35.2#

84 162.6 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 43.061 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX037436.D

Acq: 31 Aug 2023 17:30

Instrument :

MSVOA\_X

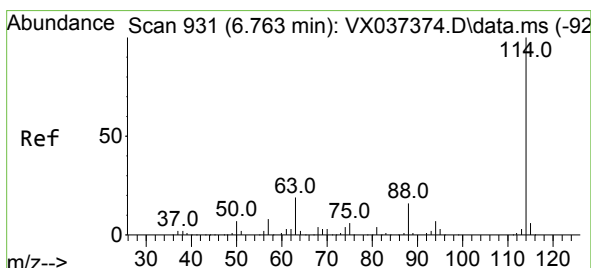
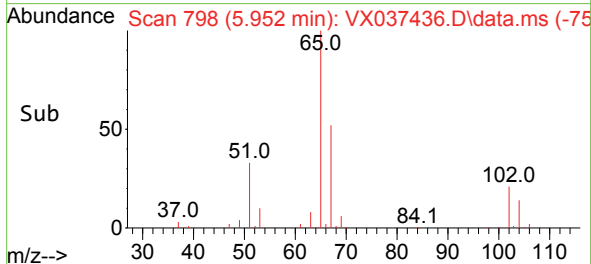
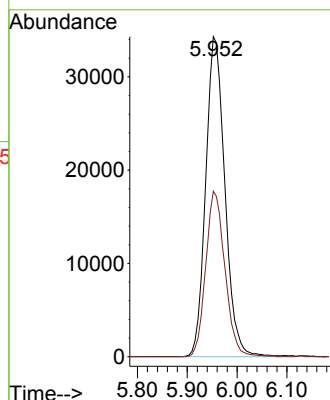
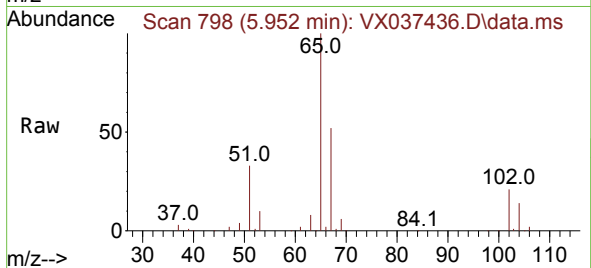
ClientSampleId :

Tgt Ion: 65 Resp: 91687

Ion Ratio Lower Upper

65 100

67 51.7 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX037436.D

Acq: 31 Aug 2023 17:30

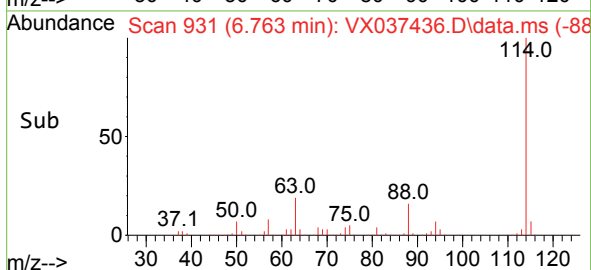
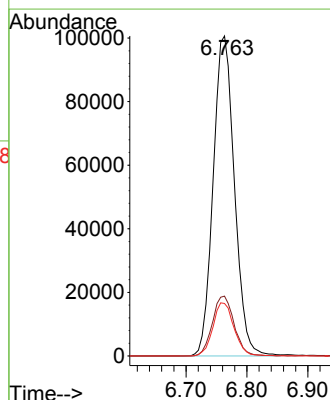
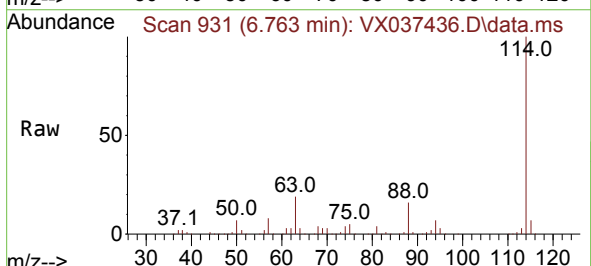
Tgt Ion:114 Resp: 244133

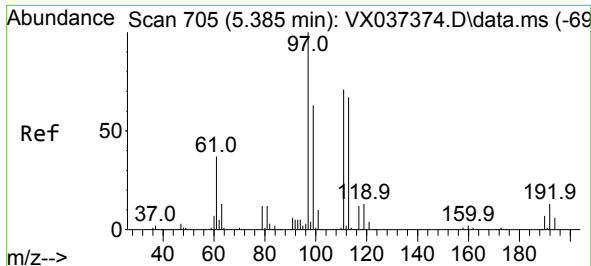
Ion Ratio Lower Upper

114 100

63 18.7 0.0 45.0

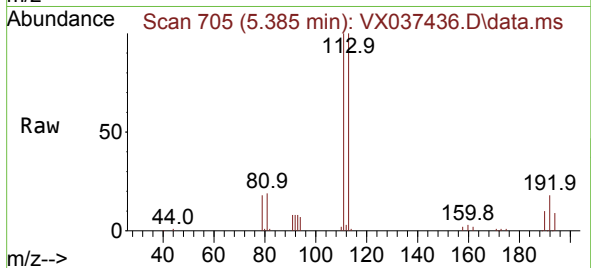
88 16.4 0.0 36.6





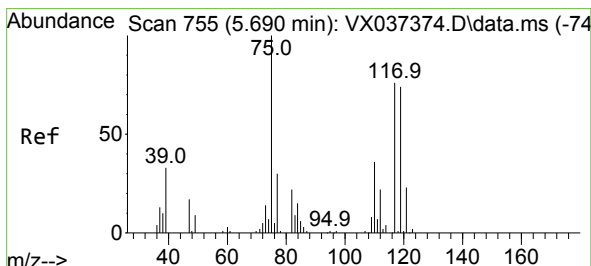
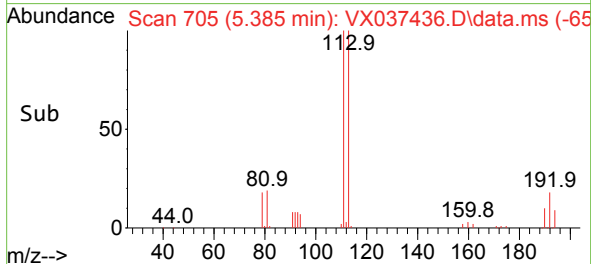
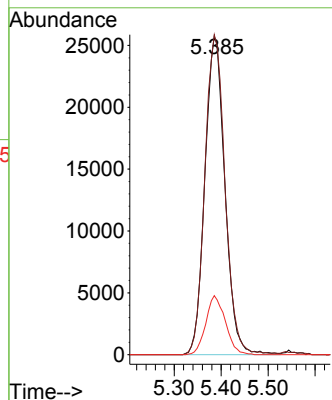
#35  
 Dibromofluoromethane  
 Concen: 47.028 ug/l  
 RT: 5.385 min Scan# 705  
 Delta R.T. 0.000 min  
 Lab File: VX037436.D  
 Acq: 31 Aug 2023 17:30

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion:113 Resp: 76037  

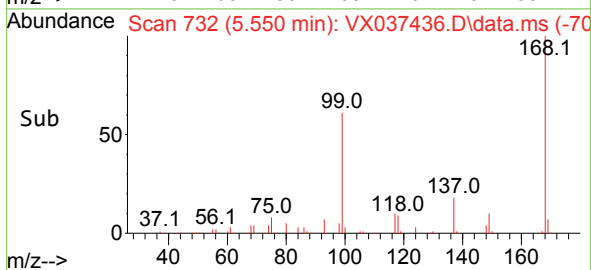
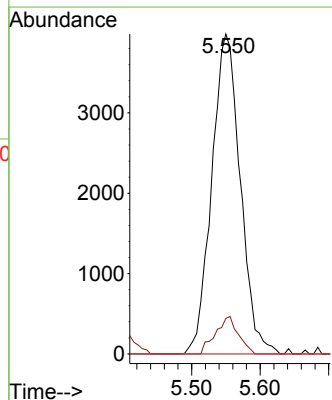
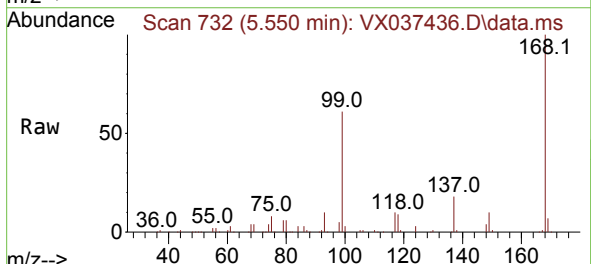
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 101.4 | 82.9  | 124.3 |
| 192 | 18.1  | 13.3  | 19.9  |

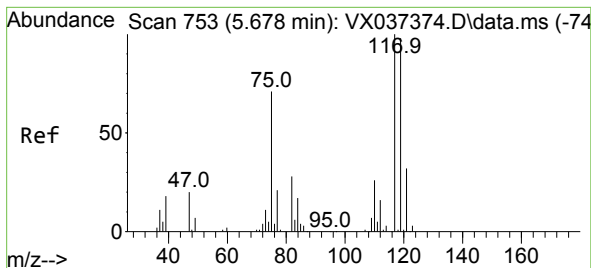


#36  
 1,1-Dichloropropene  
 Concen: 5.011 ug/l  
 RT: 5.550 min Scan# 732  
 Delta R.T. -0.146 min  
 Lab File: VX037436.D  
 Acq: 31 Aug 2023 17:30

Tgt Ion: 75 Resp: 11511  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 110 | 9.3   | 17.0  | 50.9# |
| 77  | 0.0   | 24.7  | 37.1# |





#38

Carbon Tetrachloride

Concen: 6.241 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.128 min

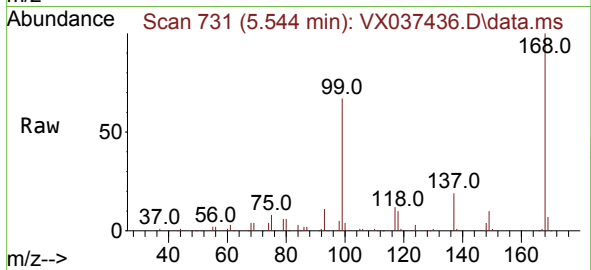
Lab File: VX037436.D

Acq: 31 Aug 2023 17:30

Instrument :

MSVOA\_X

ClientSampleId :



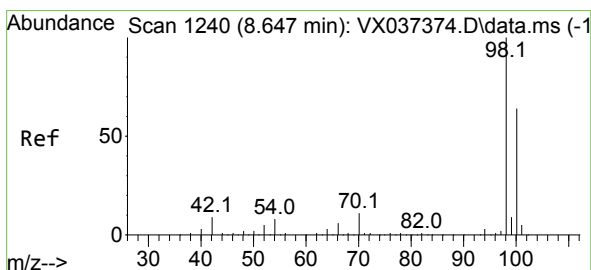
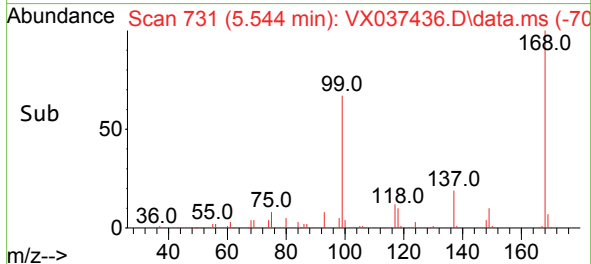
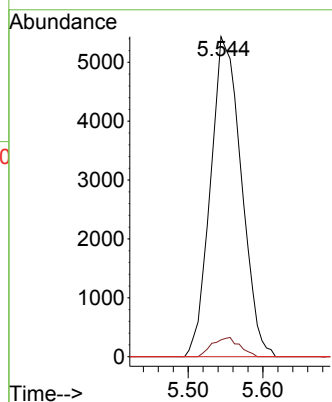
Tgt Ion:117 Resp: 15573

Ion Ratio Lower Upper

117 100

119 5.3 78.2 117.2#

121 0.0 24.4 36.6#



#50

Toluene-d8

Concen: 48.688 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX037436.D

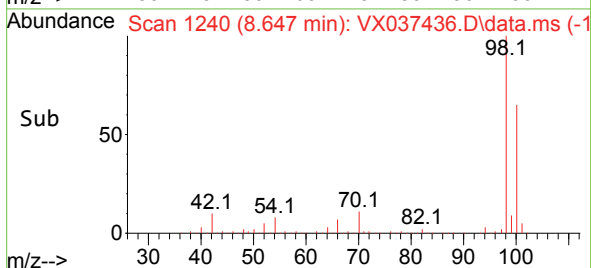
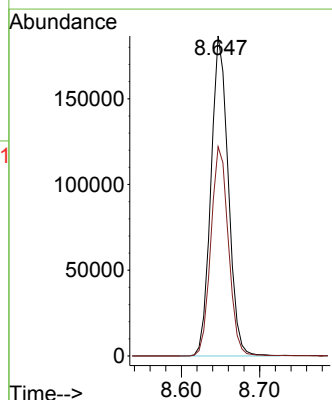
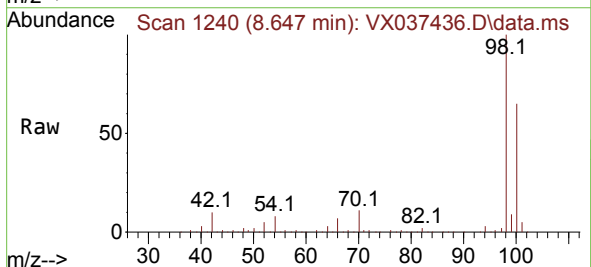
Acq: 31 Aug 2023 17:30

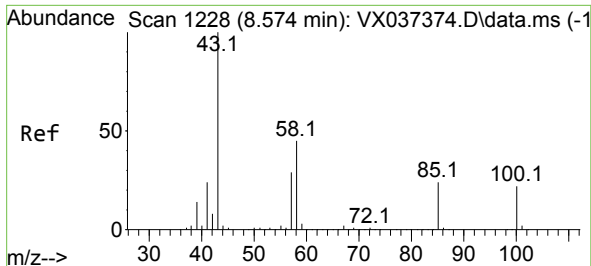
Tgt Ion: 98 Resp: 285551

Ion Ratio Lower Upper

98 100

100 66.5 53.1 79.7

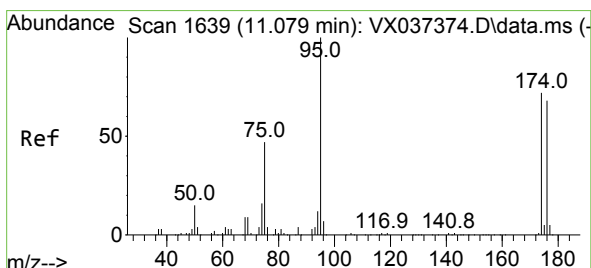
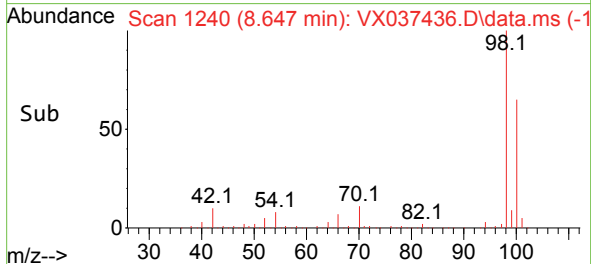
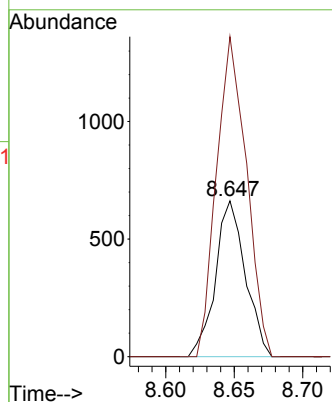
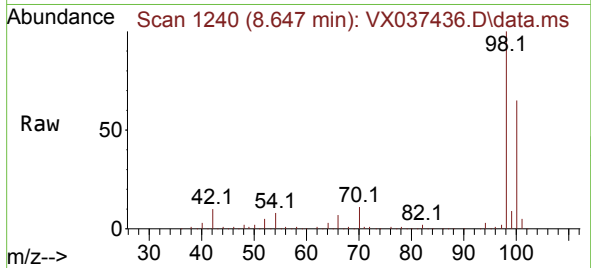




#51  
4-Methyl-2-Pentanone  
Concen: 0.444 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX037436.D  
Acq: 31 Aug 2023 17:30

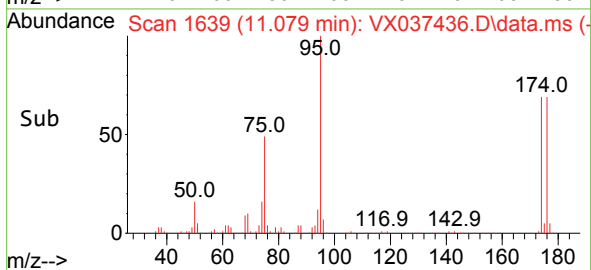
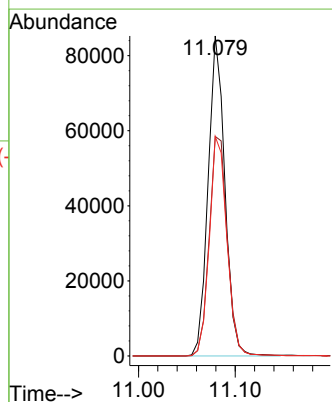
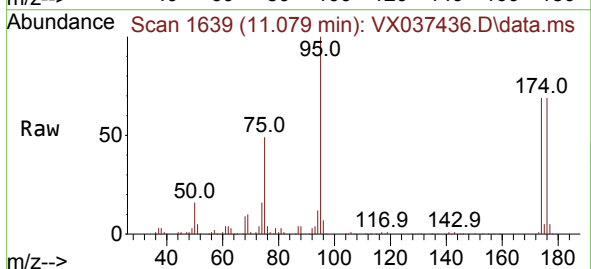
Instrument :  
MSVOA\_X  
ClientSampleId :

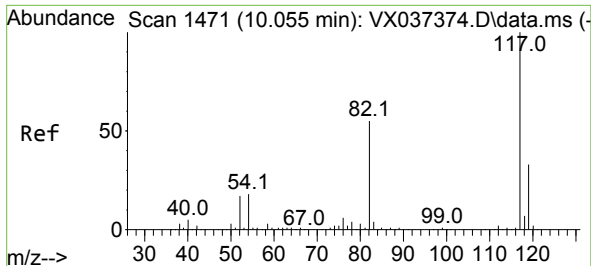
Tgt Ion: 43 Resp: 1005  
Ion Ratio Lower Upper  
43 100  
58 206.2 30.4 45.6#



#62  
4-Bromofluorobenzene  
Concen: 44.748 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX037436.D  
Acq: 31 Aug 2023 17:30

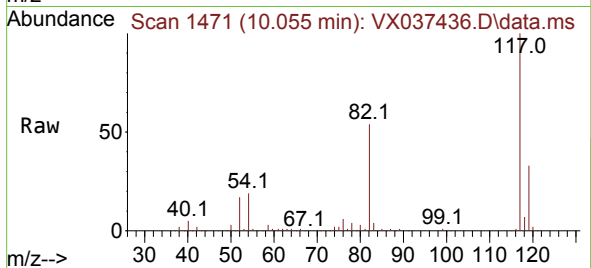
Tgt Ion: 95 Resp: 103135  
Ion Ratio Lower Upper  
95 100  
174 74.0 0.0 135.6  
176 71.6 0.0 131.0



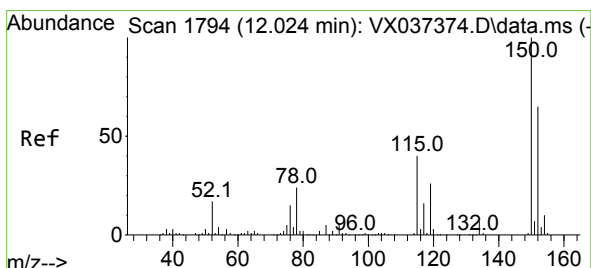
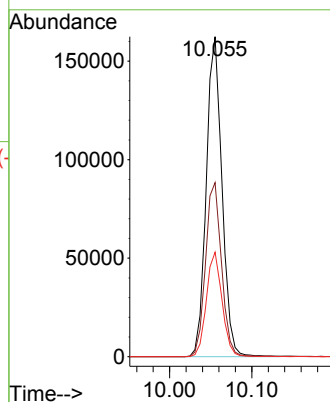
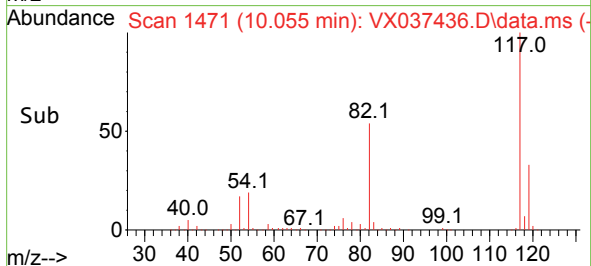


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX037436.D  
Acq: 31 Aug 2023 17:30

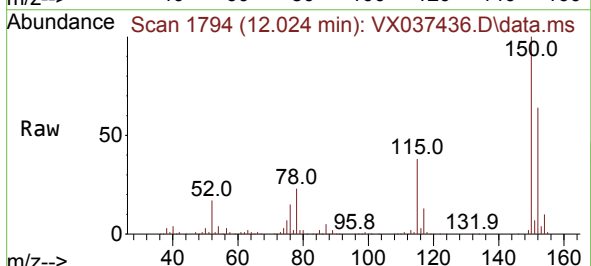
Instrument :  
MSVOA\_X  
ClientSampleId :



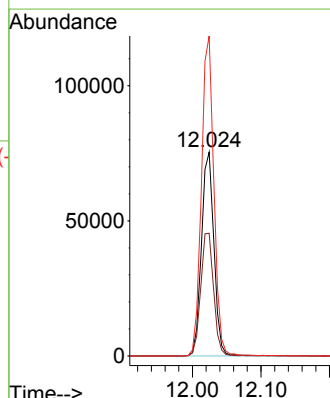
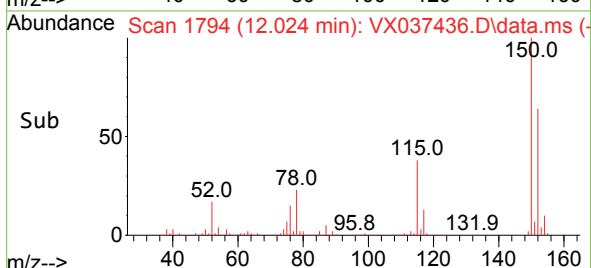
Tgt Ion:117 Resp: 215379  
Ion Ratio Lower Upper  
117 100  
82 54.4 46.2 69.4  
119 32.6 25.5 38.3

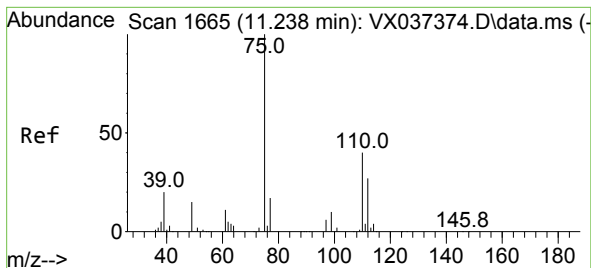


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX037436.D  
Acq: 31 Aug 2023 17:30



Tgt Ion:152 Resp: 95840  
Ion Ratio Lower Upper  
152 100  
115 62.3 43.3 129.9  
150 156.2 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 24.961 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX037436.D

Acq: 31 Aug 2023 17:30

Instrument :

MSVOA\_X

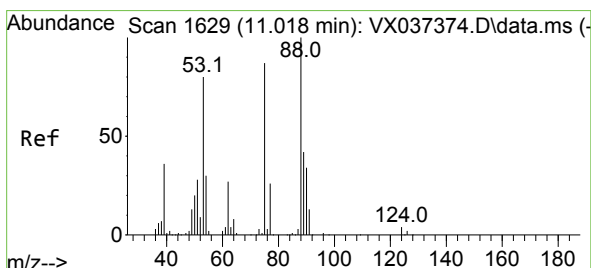
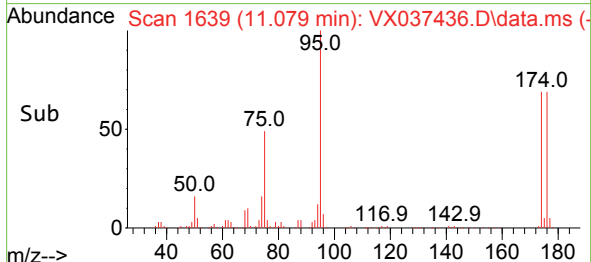
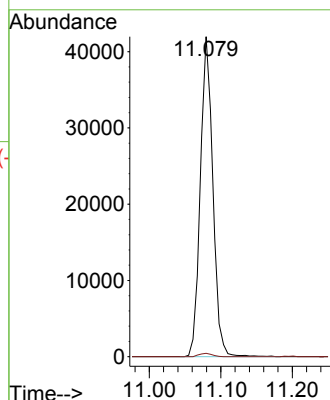
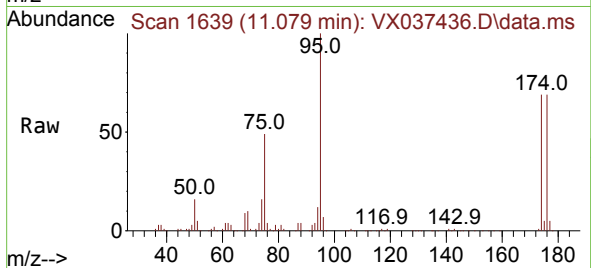
ClientSampleId :

Tgt Ion: 75 Resp: 50947

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.717 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX037436.D

Acq: 31 Aug 2023 17:30

Tgt Ion: 75 Resp: 50947

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

