

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX093023\  
 Data File : VX038015.D  
 Acq On : 30 Sep 2023 19:31  
 Operator : JC/MD  
 Sample : 04651-02RE  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 02 02:17:57 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091523W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 16 04:55:44 2023  
 Response via : Initial Calibration

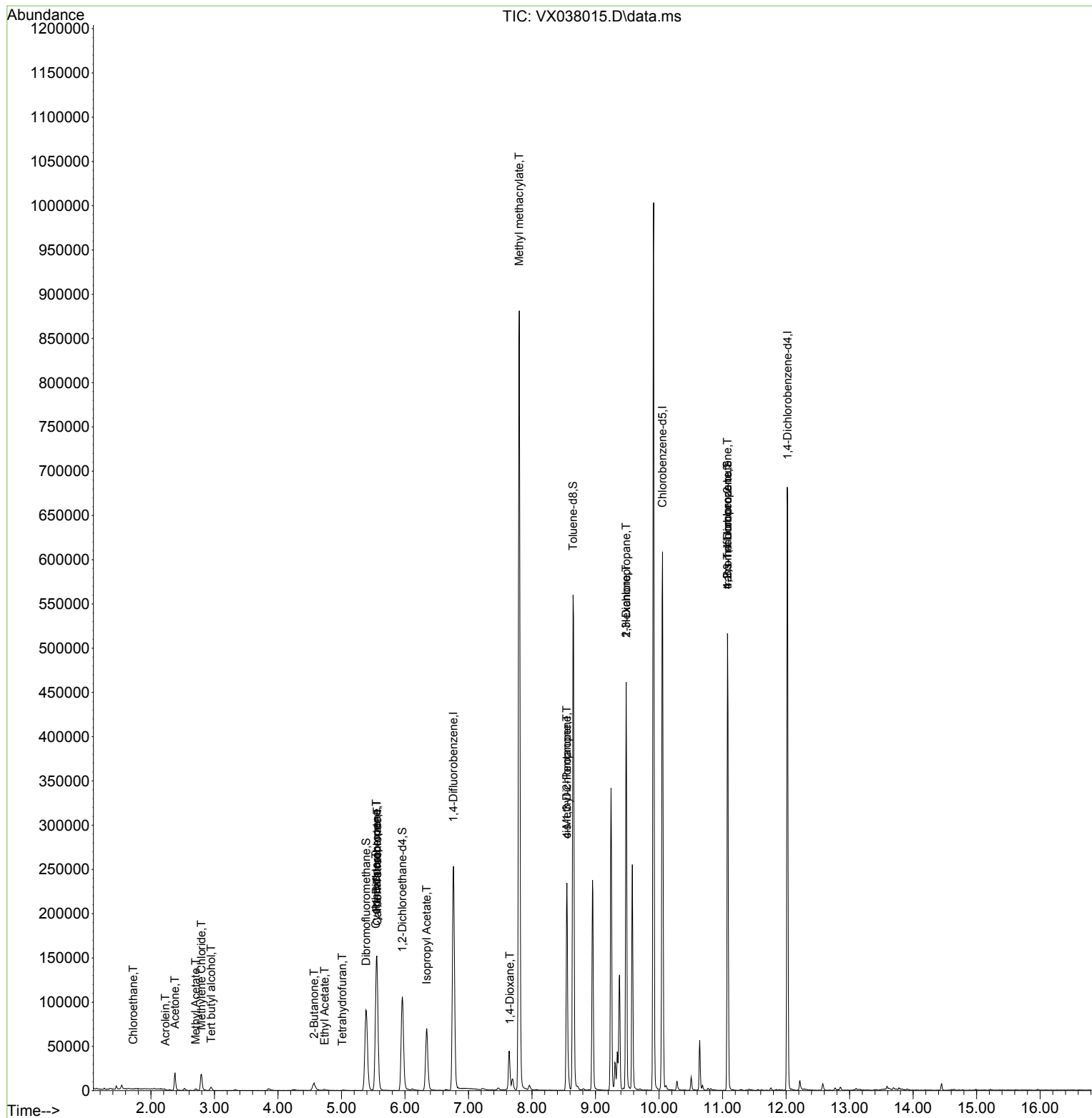
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 139884   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 253499   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 268254   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 136150   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 104786   | 57.015   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 114.040% |
| 35) Dibromofluoromethane      | 5.385  | 113   | 79222    | 46.706   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 93.420%  |
| 50) Toluene-d8                | 8.647  | 98    | 332247   | 52.718   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 105.440% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 128479   | 56.101   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 112.200% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 6) Chloroethane               | 1.721  | 64    | 263      | 0.221    | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 2347     | 5.949    | ug/l # | 84       |
| 13) Acrolein                  | 2.227  | 56    | 120      | 0.308    | ug/l # | 48       |
| 16) Acetone                   | 2.380  | 43    | 20451    | 23.131   | ug/l   | 100      |
| 18) Methyl Acetate            | 2.703  | 43    | 2320     | 0.727    | ug/l   | 97       |
| 20) Methylene Chloride        | 2.794  | 84    | 9165     | 5.585    | ug/l   | 91       |
| 25) 2-Butanone                | 4.568  | 43    | 5453     | 4.371    | ug/l   | 95       |
| 29) Tetrahydrofuran           | 5.013  | 42    | 247      | 0.318    | ug/l # | 82       |
| 31) Cyclohexane               | 5.544  | 56    | 3522     | 1.493    | ug/l # | 36       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 12416    | 5.314    | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.733  | 43    | 1857     | 0.723    | ug/l # | 93       |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 15047    | 6.155    | ug/l # | 15       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 93391    | 22.737   | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.799  | 41    | 79865    | 40.675   | ug/l # | 50       |
| 49) 1,4-Dioxane               | 7.653  | 88    | 20       | 0.389    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 82328    | 31.592   | ug/l # | 52       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 36370    | 12.714   | ug/l # | 59       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 4008     | 1.269    | ug/l # | 42       |
| 59) 2-Hexanone                | 9.482  | 43    | 51605    | 25.433   | ug/l # | 55       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 71150    | 22.594   | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 71150    | 72.378   | ug/l # | 5        |

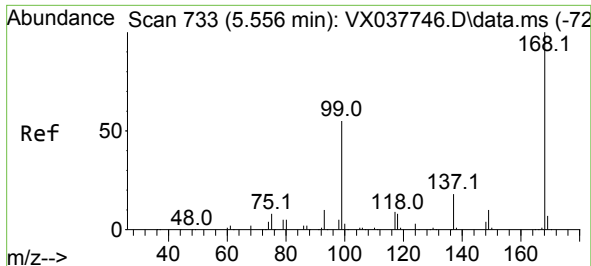
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX093023\  
Data File : VX038015.D  
Acq On : 30 Sep 2023 19:31  
Operator : JC/MD  
Sample : 04651-02RE  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Oct 02 02:17:57 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091523W.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 16 04:55:44 2023  
Response via : Initial Calibration

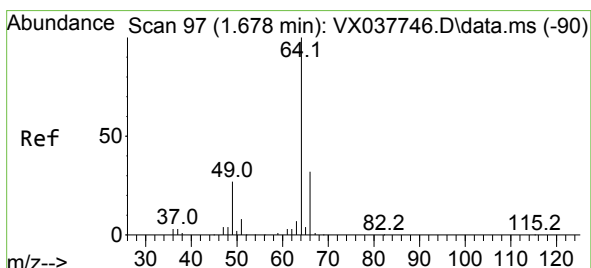
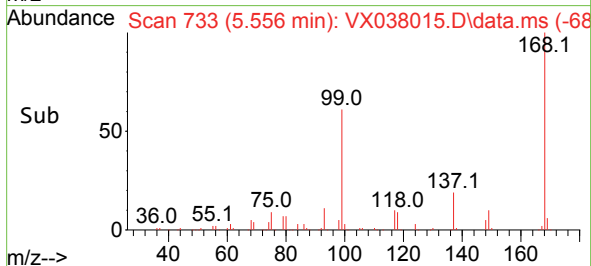
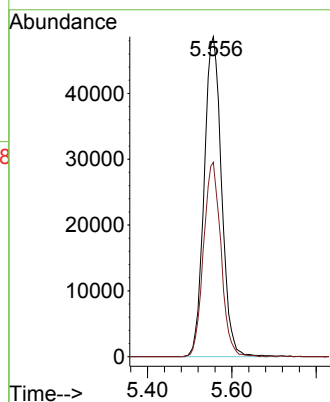
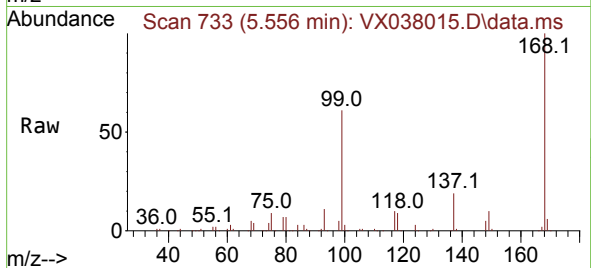




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

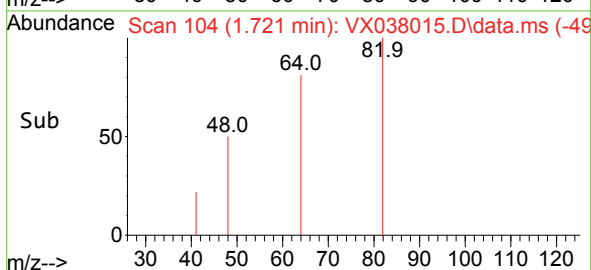
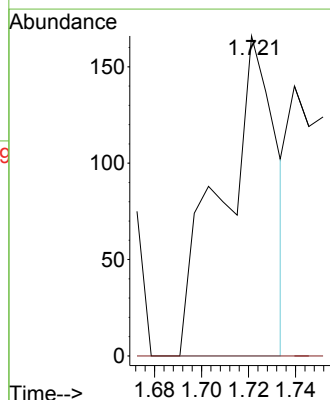
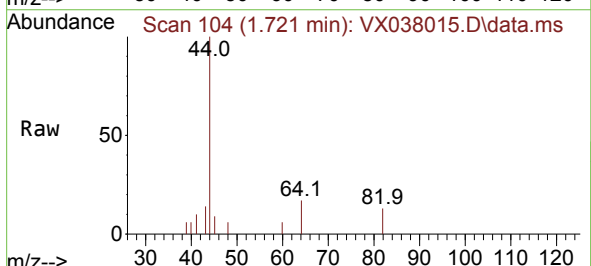
Instrument :  
MSVOA\_X  
ClientSampleId :

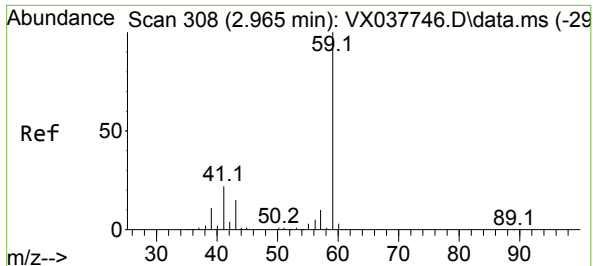
Tgt Ion:168 Resp: 139884  
Ion Ratio Lower Upper  
168 100  
99 60.7 56.6 85.0



#6  
Chloroethane  
Concen: 0.221 ug/l  
RT: 1.721 min Scan# 104  
Delta R.T. 0.036 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

Tgt Ion: 64 Resp: 263  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#





#11

Tert butyl alcohol

Concen: 5.949 ug/l

RT: 2.947 min Scan# 308

Delta R.T. -0.018 min

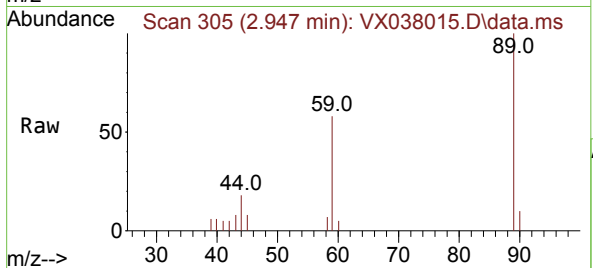
Lab File: VX038015.D

Acq: 30 Sep 2023 19:31

Instrument :

MSVOA\_X

ClientSampleId :

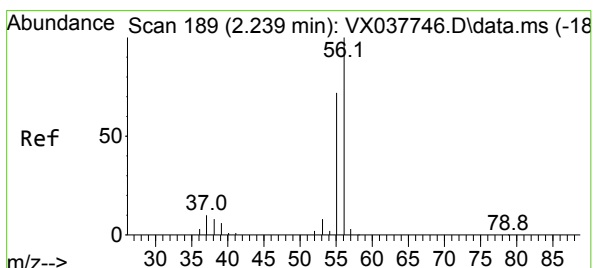
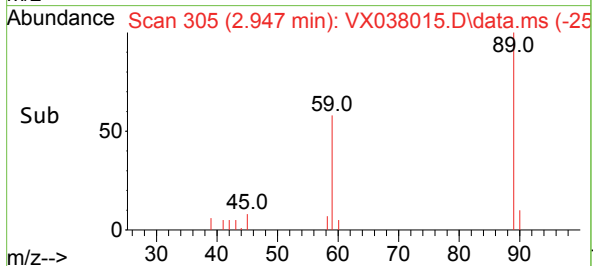
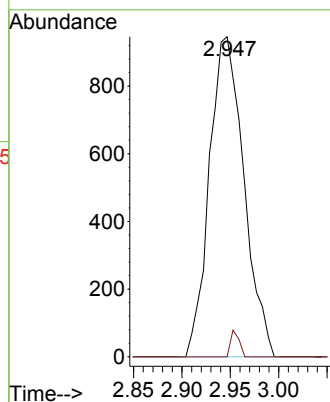


Tgt Ion: 59 Resp: 2347

Ion Ratio Lower Upper

59 100

57 2.0 6.0 9.0#



#13

Acrolein

Concen: 0.308 ug/l

RT: 2.227 min Scan# 187

Delta R.T. -0.012 min

Lab File: VX038015.D

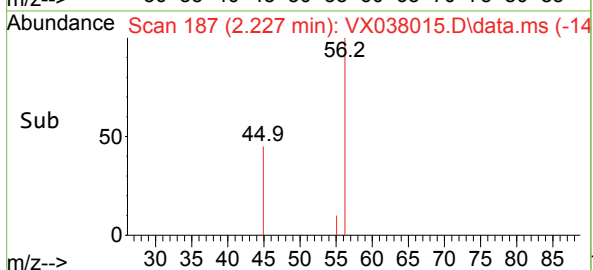
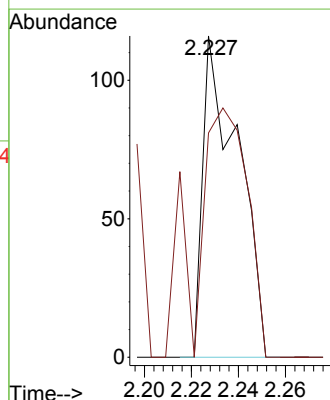
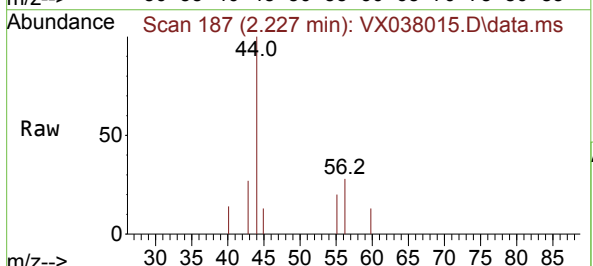
Acq: 30 Sep 2023 19:31

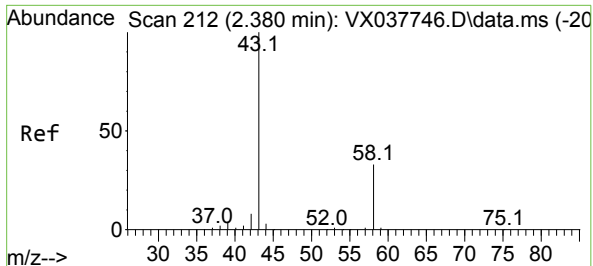
Tgt Ion: 56 Resp: 120

Ion Ratio Lower Upper

56 100

55 114.2 57.1 85.7#

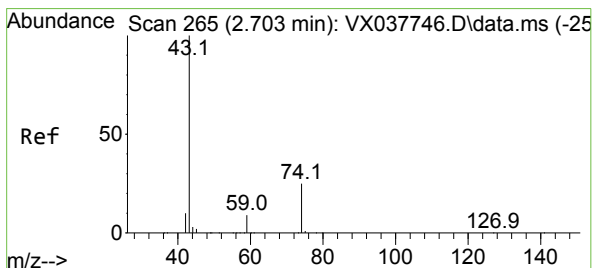
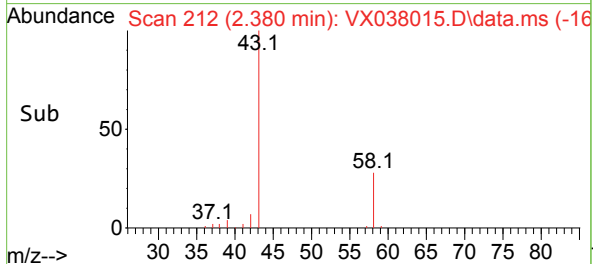
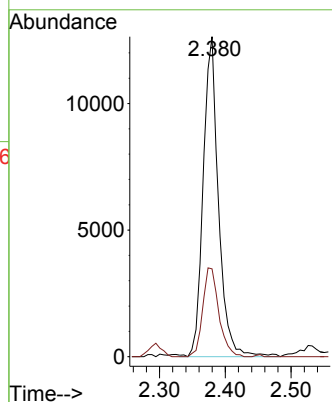
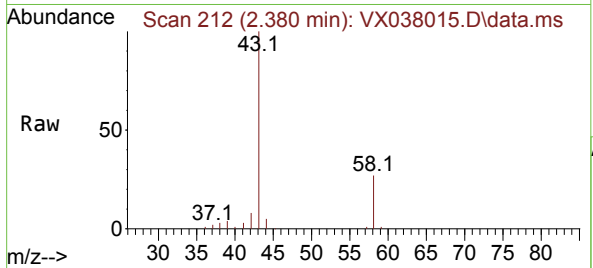




#16  
Acetone  
Concen: 23.131 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

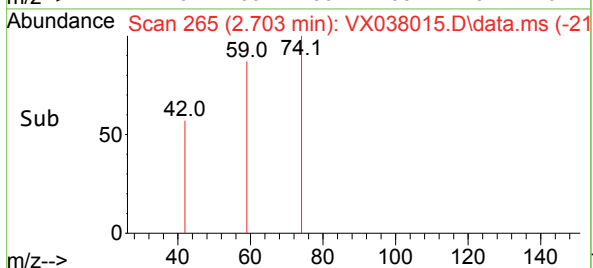
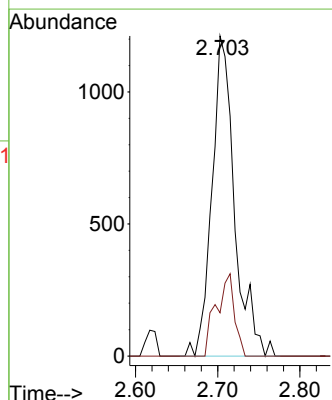
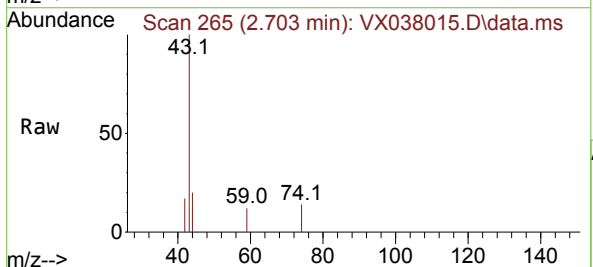
Instrument :  
MSVOA\_X  
ClientSampleId :

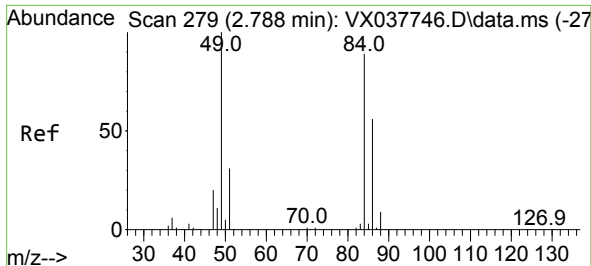
Tgt Ion: 43 Resp: 20451  
Ion Ratio Lower Upper  
43 100  
58 27.5 21.9 32.9



#18  
Methyl Acetate  
Concen: 0.727 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

Tgt Ion: 43 Resp: 2320  
Ion Ratio Lower Upper  
43 100  
74 20.6 17.8 26.8





#20

Methylene Chloride

Concen: 5.585 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

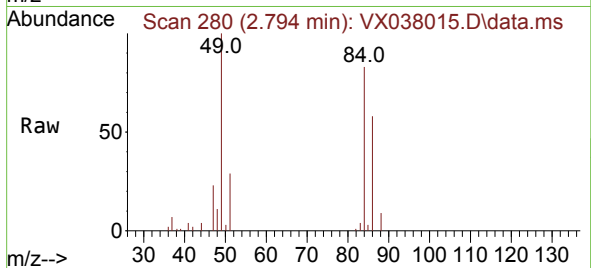
Lab File: VX038015.D

Acq: 30 Sep 2023 19:31

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 84 Resp: 9165

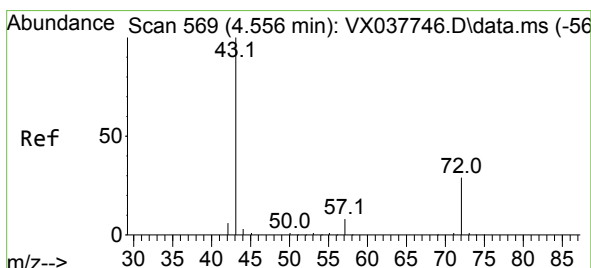
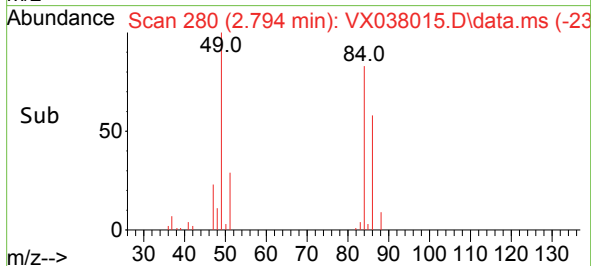
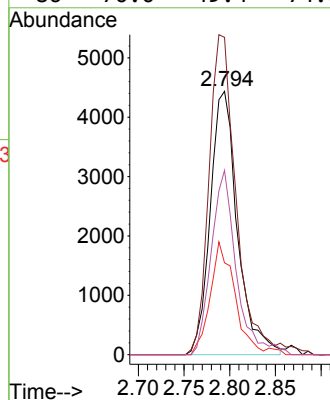
Ion Ratio Lower Upper

84 100

49 120.4 103.6 155.4

51 34.8 33.8 50.6

86 70.0 49.4 74.0



#25

2-Butanone

Concen: 4.371 ug/l

RT: 4.568 min Scan# 571

Delta R.T. -0.000 min

Lab File: VX038015.D

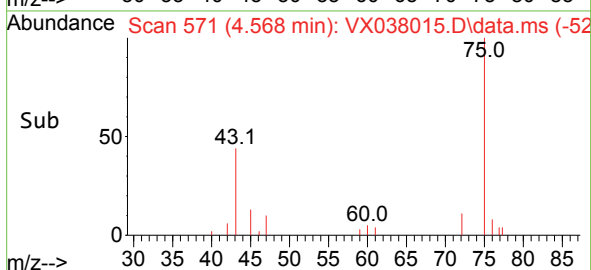
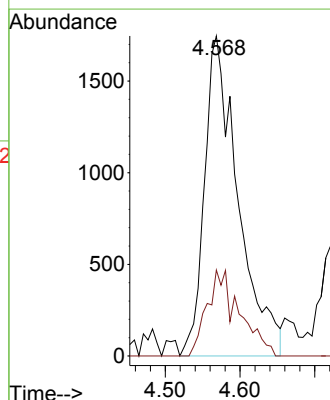
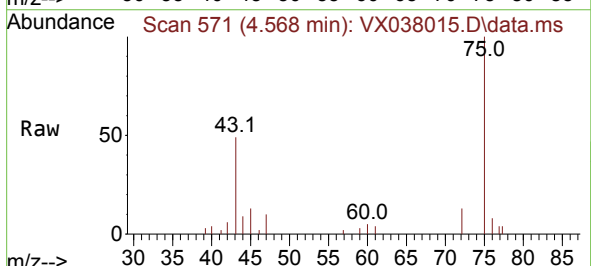
Acq: 30 Sep 2023 19:31

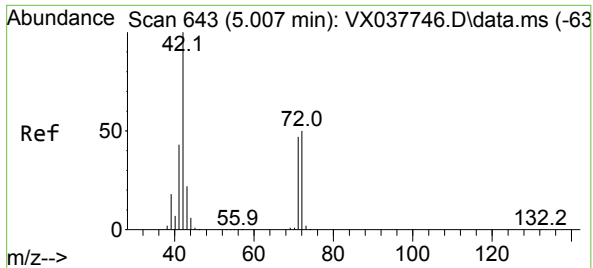
Tgt Ion: 43 Resp: 5453

Ion Ratio Lower Upper

43 100

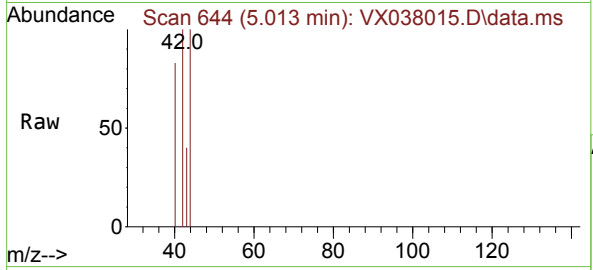
72 26.9 19.4 29.2





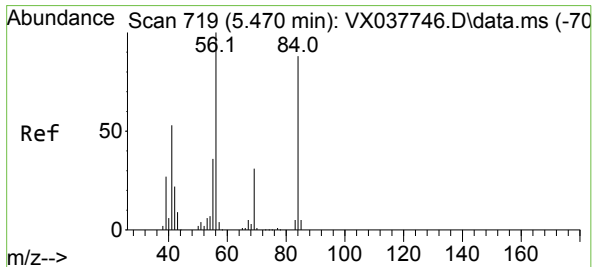
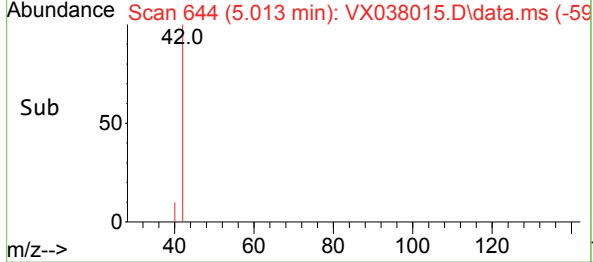
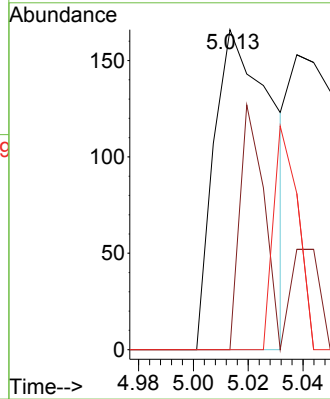
#29  
Tetrahydrofuran  
Concen: 0.318 ug/l  
RT: 5.013 min Scan# 643  
Delta R.T. -0.000 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 42 Resp: 247

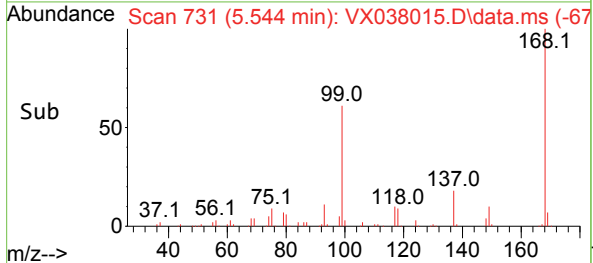
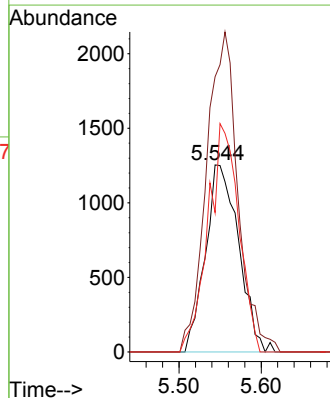
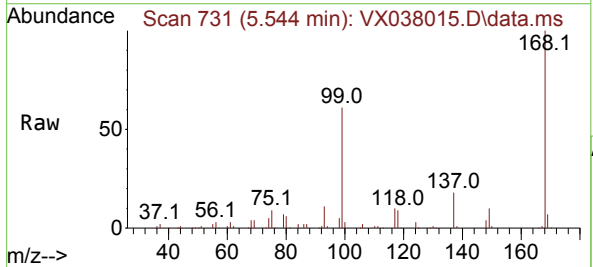
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 31.2  | 34.2  | 51.4# |
| 71  | 29.1  | 32.2  | 48.2# |

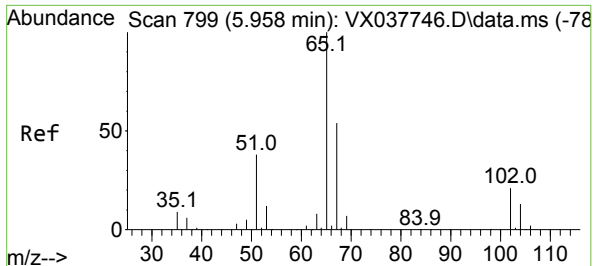


#31  
Cyclohexane  
Concen: 1.493 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. 0.073 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

Tgt Ion: 56 Resp: 3522

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 147.2 | 23.4  | 35.2# |
| 84  | 74.6  | 65.9  | 98.9  |

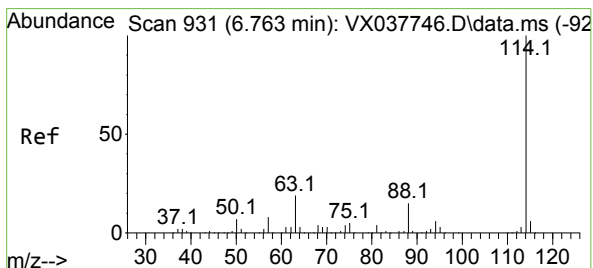
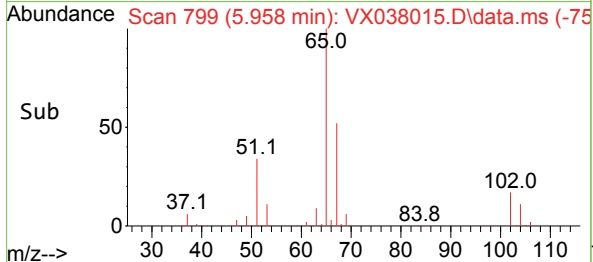
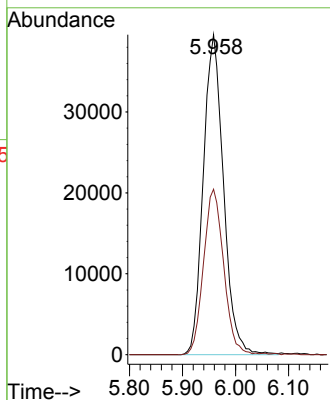
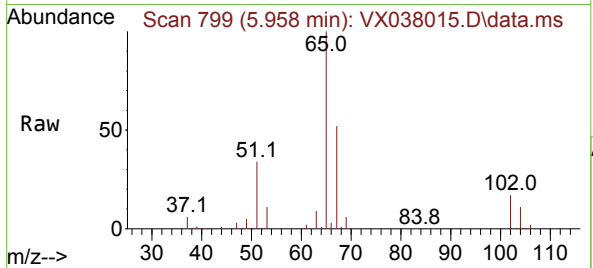




#33  
1,2-Dichloroethane-d4  
Concen: 57.015 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

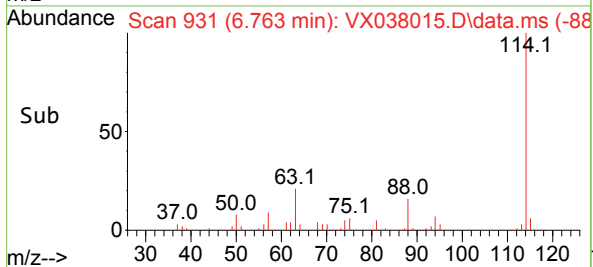
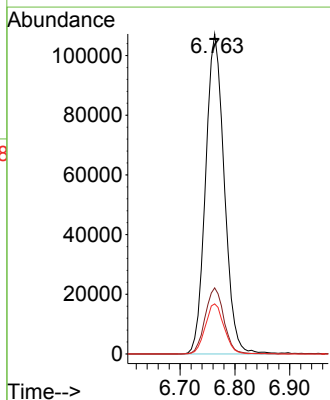
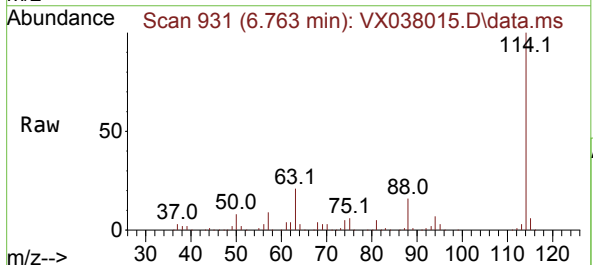
Instrument :  
MSVOA\_X  
ClientSampleId :

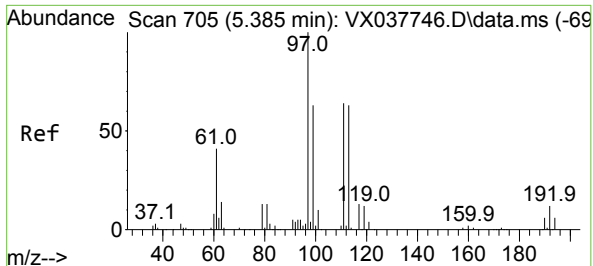
Tgt Ion: 65 Resp: 104786  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 100.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 931  
Delta R.T. 0.000 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

Tgt Ion:114 Resp: 253499  
Ion Ratio Lower Upper  
114 100  
63 20.6 0.0 45.0  
88 15.6 0.0 36.6





#35

Dibromofluoromethane

Concen: 46.706 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

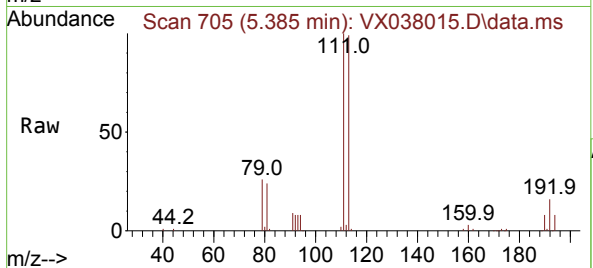
Lab File: VX038015.D

Acq: 30 Sep 2023 19:31

Instrument :

MSVOA\_X

ClientSampleId :



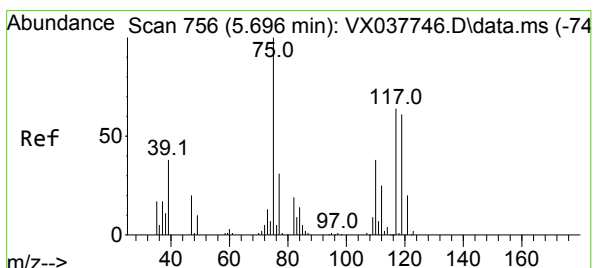
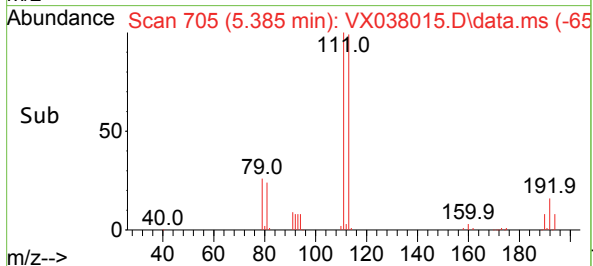
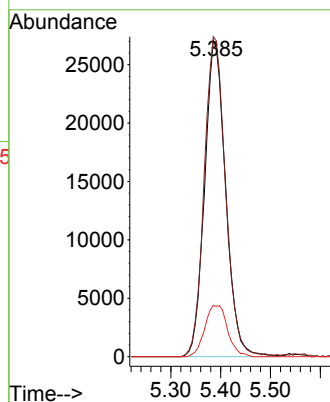
Tgt Ion:113 Resp: 79222

Ion Ratio Lower Upper

113 100

111 102.9 82.9 124.3

192 17.5 13.3 19.9



#36

1,1-Dichloropropene

Concen: 5.314 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.146 min

Lab File: VX038015.D

Acq: 30 Sep 2023 19:31

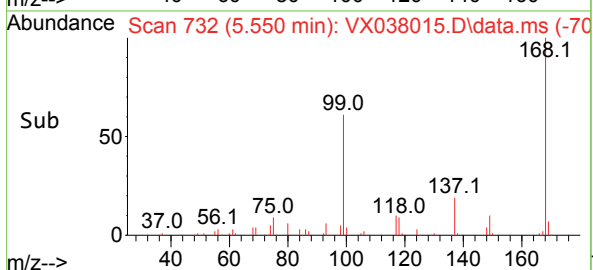
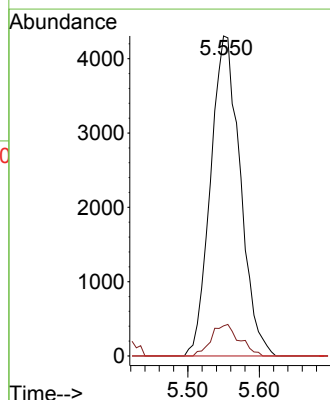
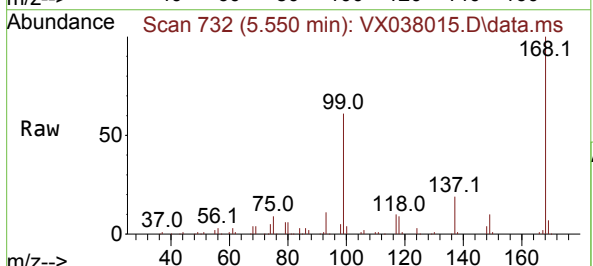
Tgt Ion: 75 Resp: 12416

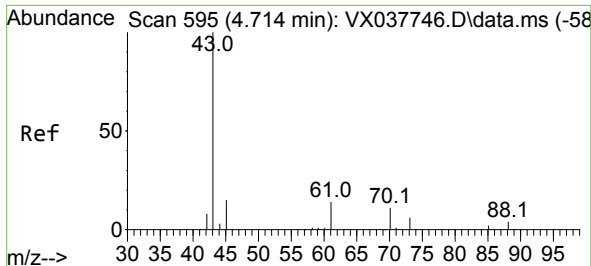
Ion Ratio Lower Upper

75 100

110 9.4 17.0 50.9#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.723 ug/l

RT: 4.733 min Scan# 598

Delta R.T. -0.000 min

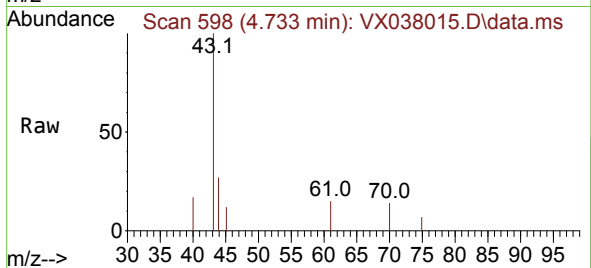
Lab File: VX038015.D

Acq: 30 Sep 2023 19:31

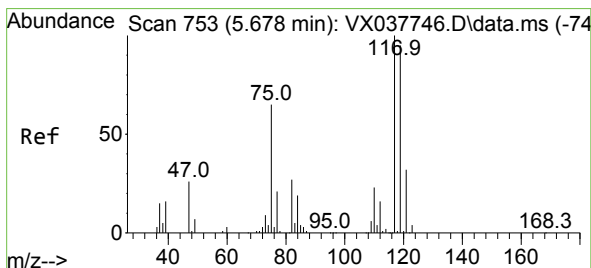
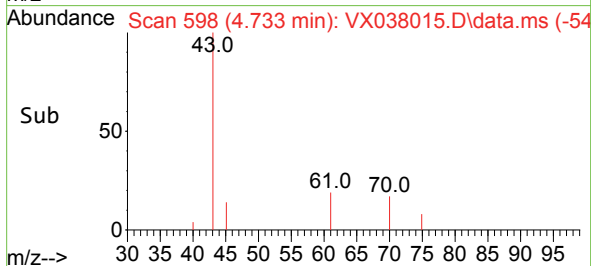
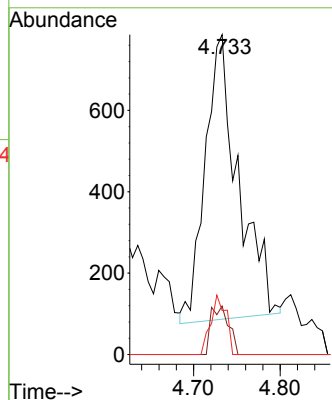
Instrument :

MSVOA\_X

ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 1857     |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 61          | 9.2 10.6 16.0# |
| 70          | 9.7 8.3 12.5   |



#38

Carbon Tetrachloride

Concen: 6.155 ug/l

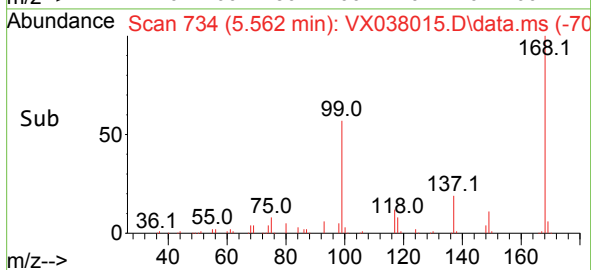
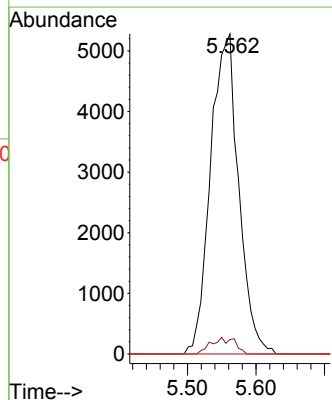
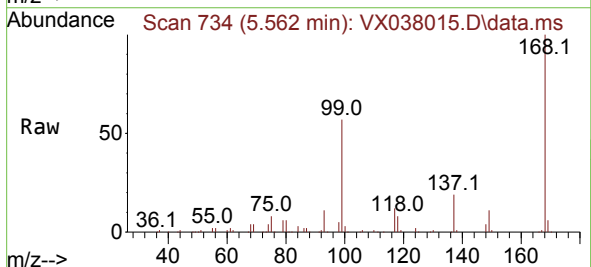
RT: 5.562 min Scan# 734

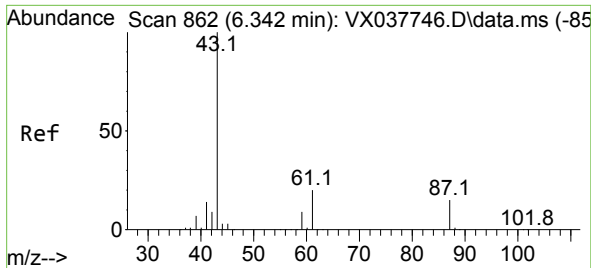
Delta R.T. -0.116 min

Lab File: VX038015.D

Acq: 30 Sep 2023 19:31

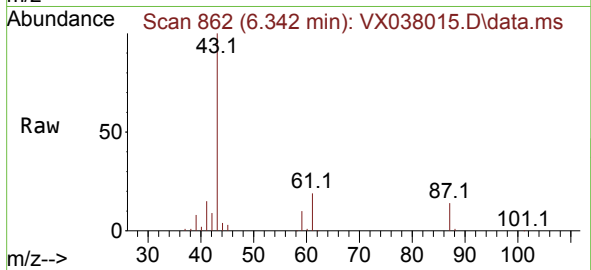
|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 15047     |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 4.5 78.2 117.2# |
| 121          | 0.0 24.4 36.6#  |



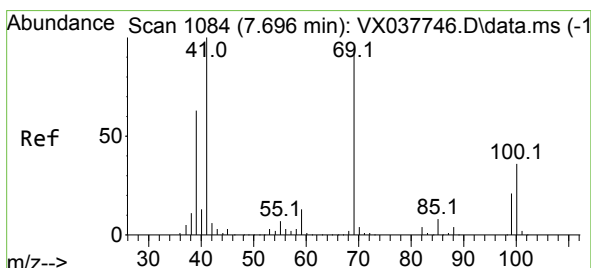
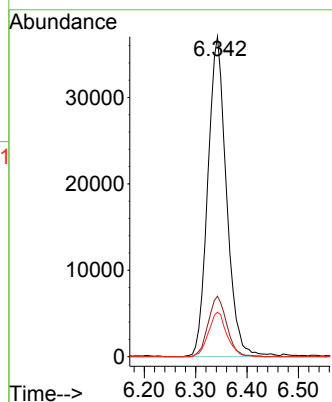
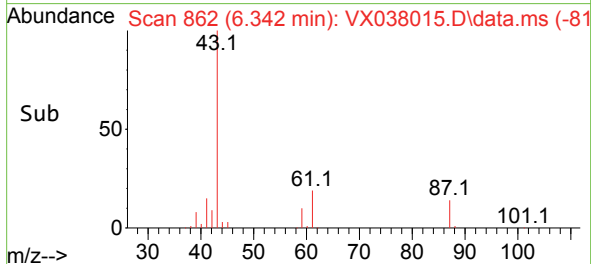


#43  
Isopropyl Acetate  
Concen: 22.737 ug/l  
RT: 6.342 min Scan# 80  
Delta R.T. -0.000 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

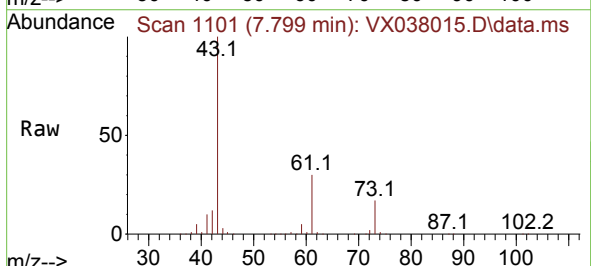
Instrument :  
MSVOA\_X  
ClientSampleId :



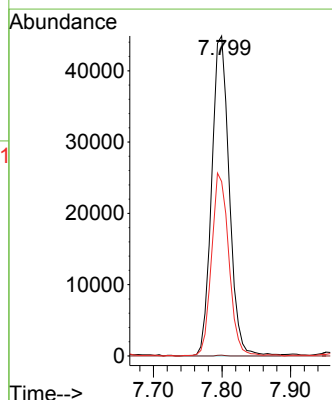
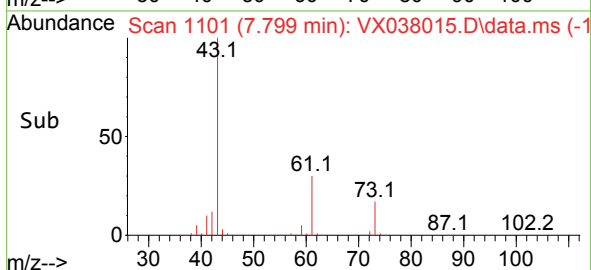
Tgt Ion: 43 Resp: 93391  
Ion Ratio Lower Upper  
43 100  
61 18.9 15.2 22.8  
87 13.8 9.8 14.6

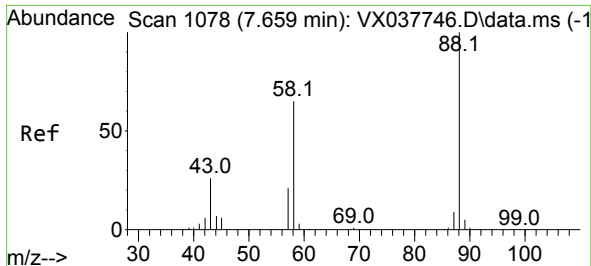


#48  
Methyl methacrylate  
Concen: 40.675 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.098 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31



Tgt Ion: 41 Resp: 79865  
Ion Ratio Lower Upper  
41 100  
69 0.1 59.2 88.8#  
39 56.1 47.7 71.5

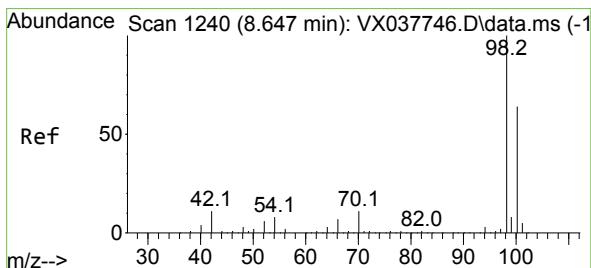
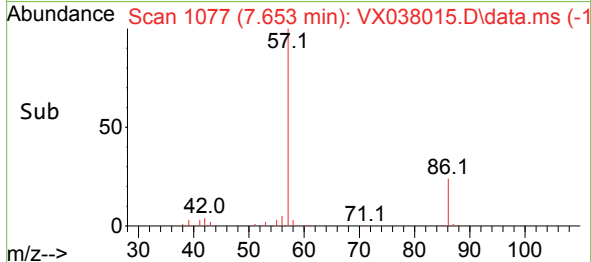
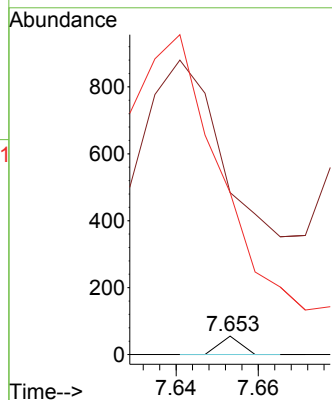
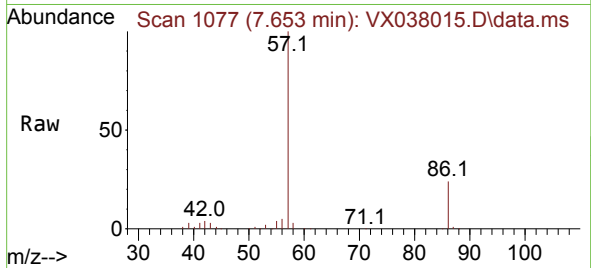




#49  
1,4-Dioxane  
Concen: 0.389 ug/l  
RT: 7.653 min Scan# 1077  
Delta R.T. -0.018 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

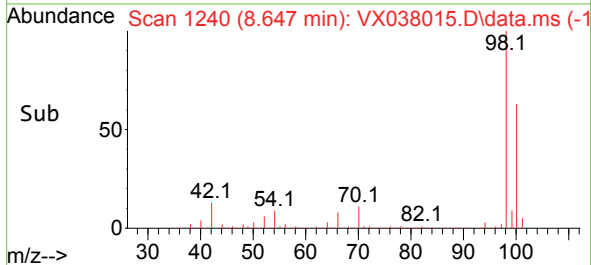
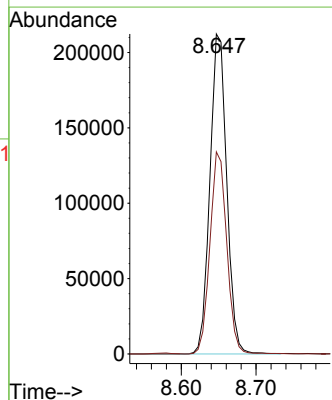
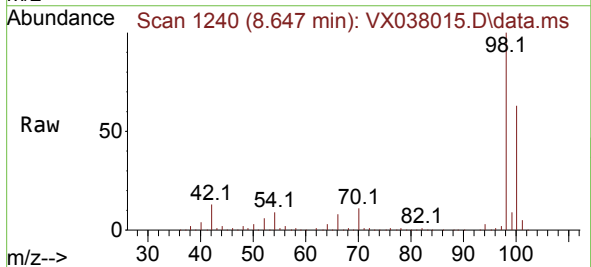
Instrument :  
MSVOA\_X  
ClientSampleId :

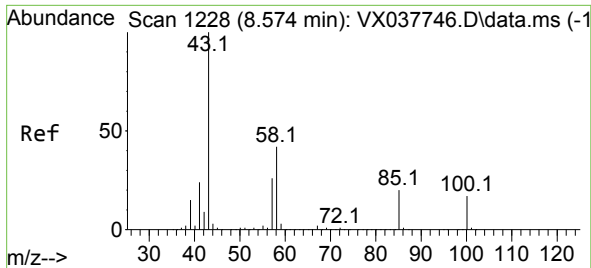
Tgt Ion: 88 Resp: 20  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 9100.0 60.1 90.1#



#50  
Toluene-d8  
Concen: 52.718 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

Tgt Ion: 98 Resp: 332247  
Ion Ratio Lower Upper  
98 100  
100 63.3 53.1 79.7

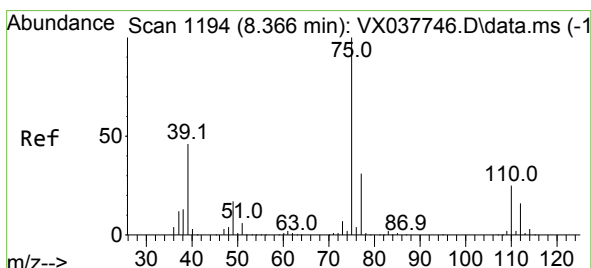
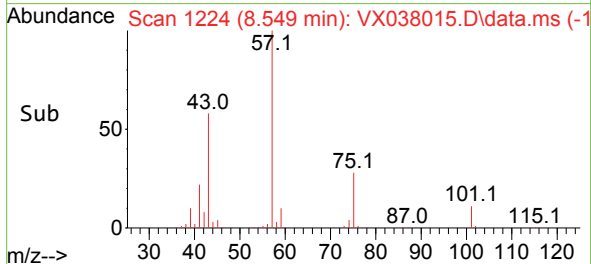
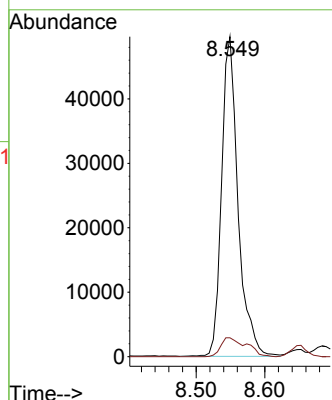
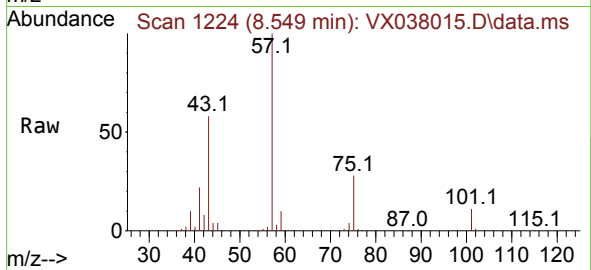




#51  
4-Methyl-2-Pentanone  
Concen: 31.592 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

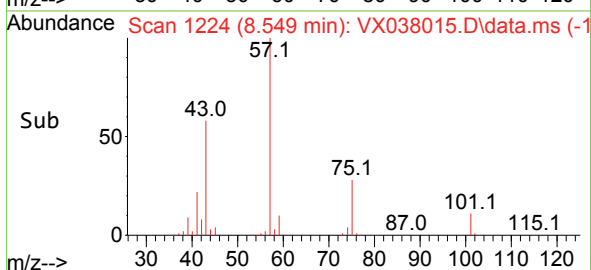
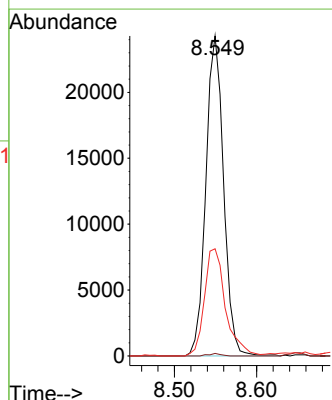
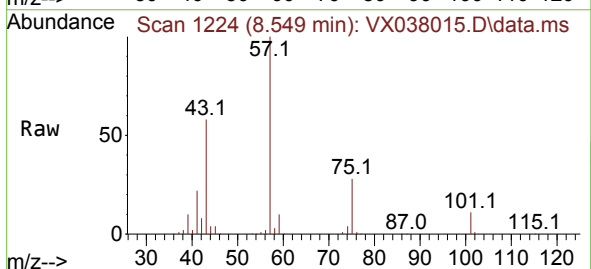
Instrument :  
MSVOA\_X  
ClientSampleId :

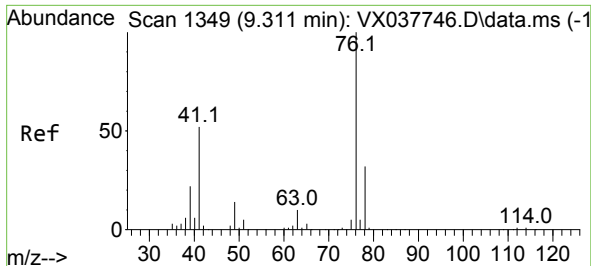
Tgt Ion: 43 Resp: 82328  
Ion Ratio Lower Upper  
43 100  
58 9.4 30.4 45.6#



#54  
cis-1,3-Dichloropropene  
Concen: 12.714 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. 0.177 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

Tgt Ion: 75 Resp: 36370  
Ion Ratio Lower Upper  
75 100  
77 0.8 25.3 37.9#  
39 33.5 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 1.269 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX038015.D

Acq: 30 Sep 2023 19:31

Instrument :

MSVOA\_X

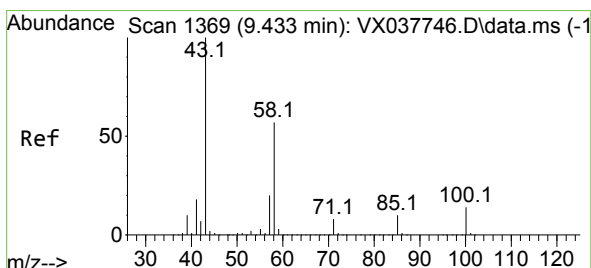
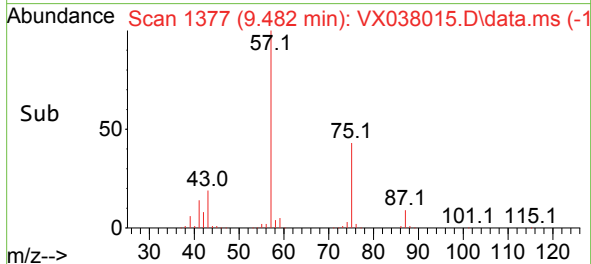
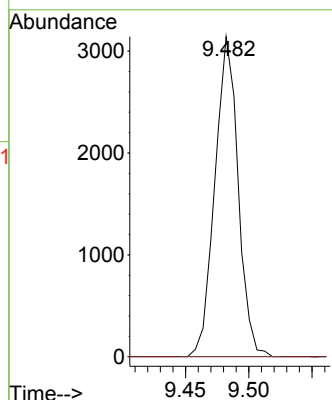
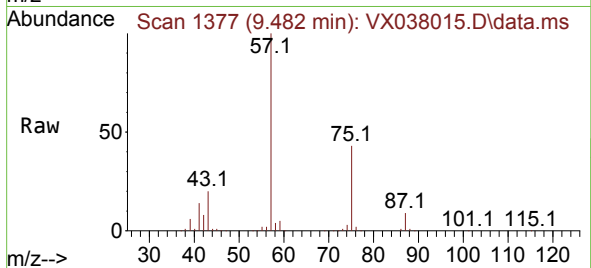
ClientSampleId :

Tgt Ion: 76 Resp: 4008

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 25.433 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX038015.D

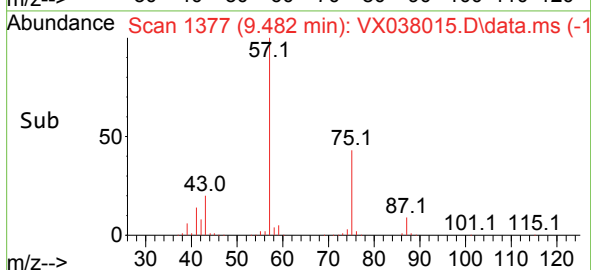
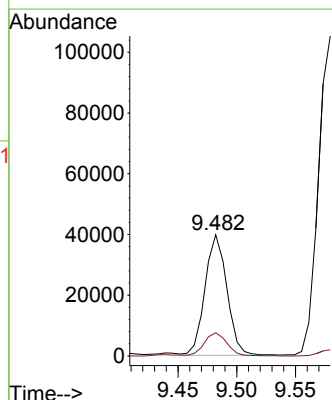
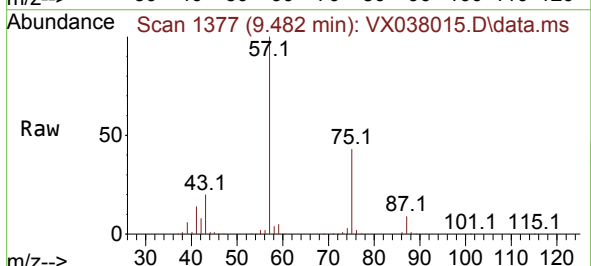
Acq: 30 Sep 2023 19:31

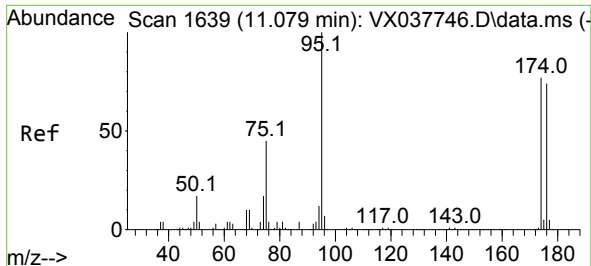
Tgt Ion: 43 Resp: 51605

Ion Ratio Lower Upper

43 100

58 20.3 26.2 78.5#

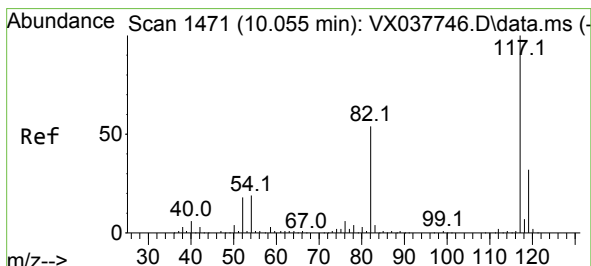
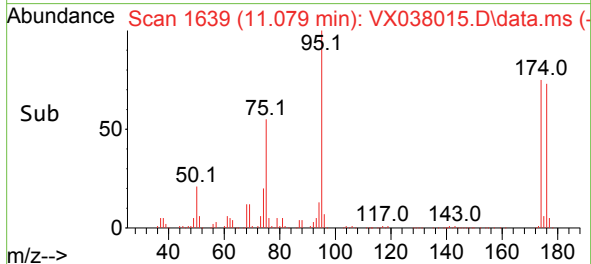
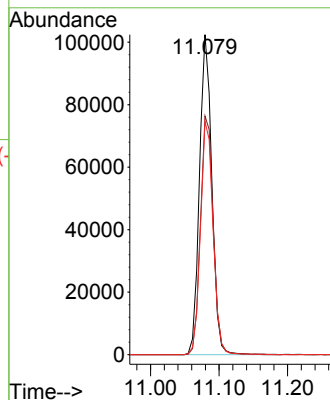
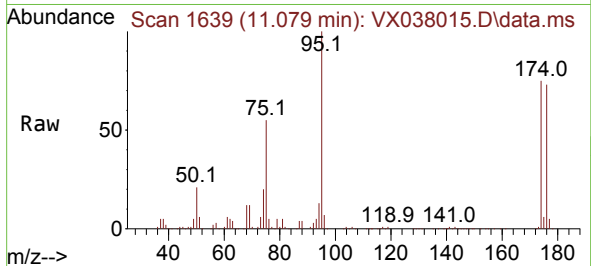




#62  
4-Bromofluorobenzene  
Concen: 56.101 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

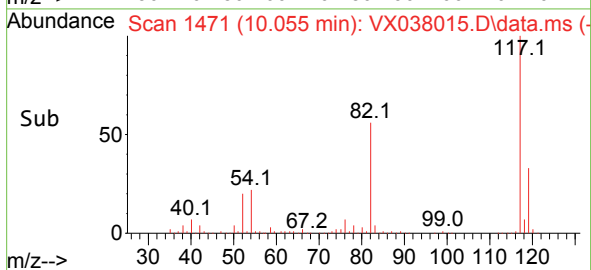
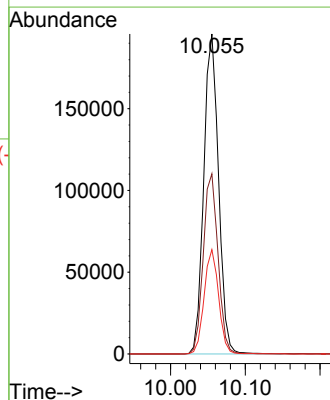
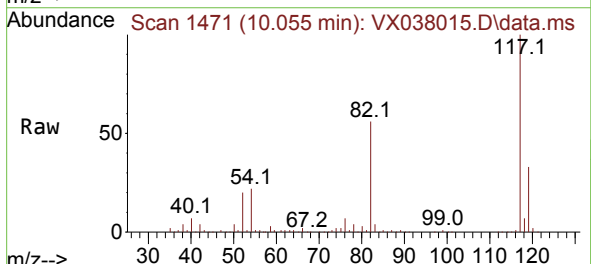
Instrument :  
MSVOA\_X  
ClientSampleId :

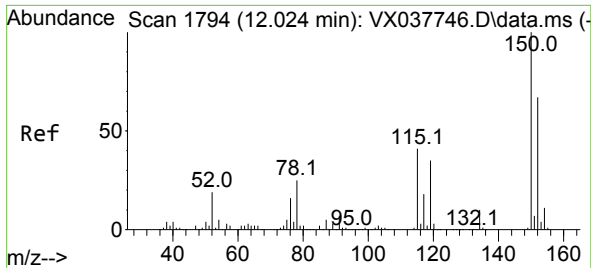
Tgt Ion: 95 Resp: 128479  
Ion Ratio Lower Upper  
95 100  
174 77.5 0.0 135.6  
176 74.4 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX038015.D  
Acq: 30 Sep 2023 19:31

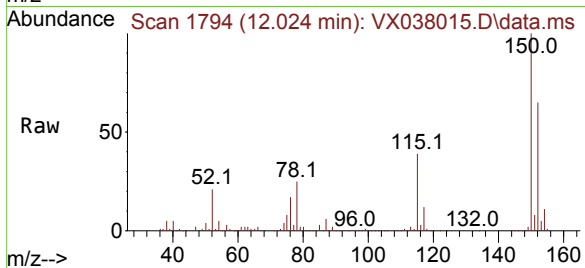
Tgt Ion: 117 Resp: 268254  
Ion Ratio Lower Upper  
117 100  
82 56.3 46.2 69.4  
119 32.6 25.5 38.3



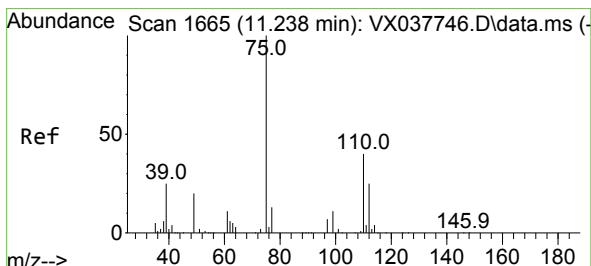
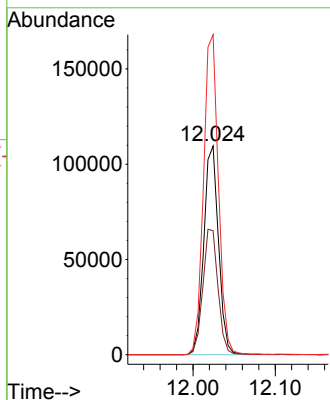
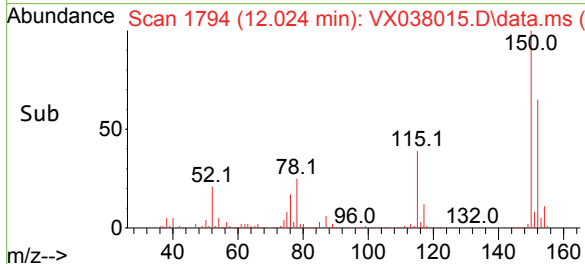


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 1  
 Delta R.T. -0.000 min  
 Lab File: VX038015.D  
 Acq: 30 Sep 2023 19:31

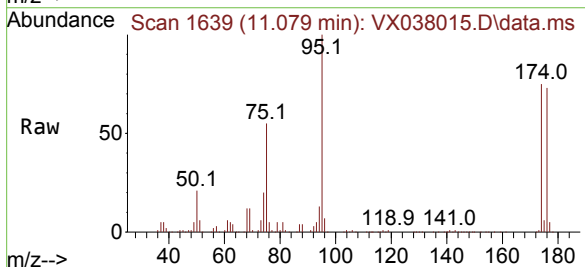
Instrument :  
 MSVOA\_X  
 ClientSampleId :



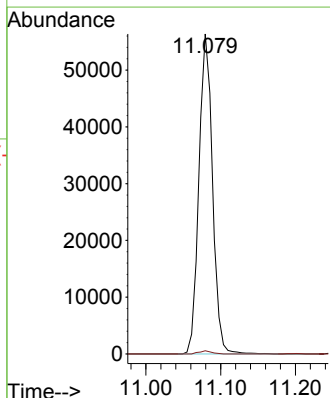
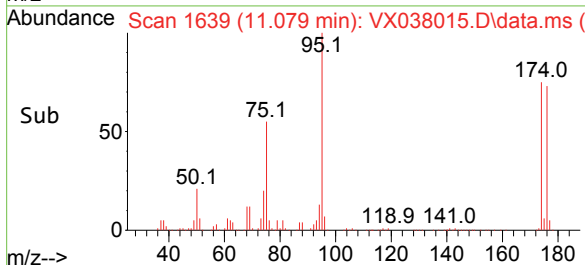
Tgt Ion:152 Resp: 136150  
 Ion Ratio Lower Upper  
 152 100  
 115 61.8 43.3 129.9  
 150 155.5 0.0 345.0

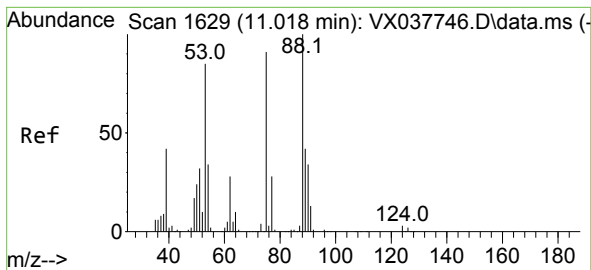


#76  
 1,2,3-Trichloropropane  
 Concen: 22.594 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX038015.D  
 Acq: 30 Sep 2023 19:31



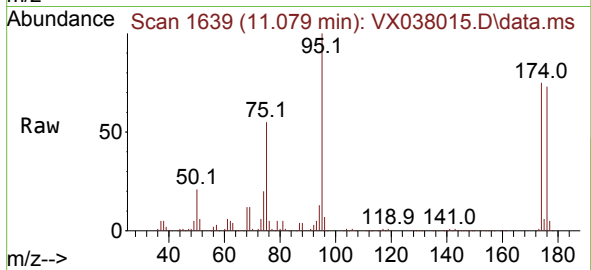
Tgt Ion: 75 Resp: 71150  
 Ion Ratio Lower Upper  
 75 100  
 77 0.9 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 72.378 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX038015.D  
 Acq: 30 Sep 2023 19:31

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 71150  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

