

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091823\  
 Data File : VX037767.D  
 Acq On : 18 Sep 2023 10:34  
 Operator : JC/MD  
 Sample : VX0918MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Sep 18 17:54:55 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      | 5.550  | 168  | 228585   | 50.000 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene    | 6.757  | 114  | 372428   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 325675   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 141203   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 5.952  | 65    | 133879   | 44.578   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | =    | 89.160% |
| 35) Dibromofluoromethane    | 5.385  | 113   | 116044   | 46.568   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 93.140% |
| 50) Toluene-d8              | 8.647  | 98    | 439998   | 47.521   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | =    | 95.040% |
| 62) 4-Bromofluorobenzene    | 11.079 | 95    | 146798   | 43.630   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 87.260% |

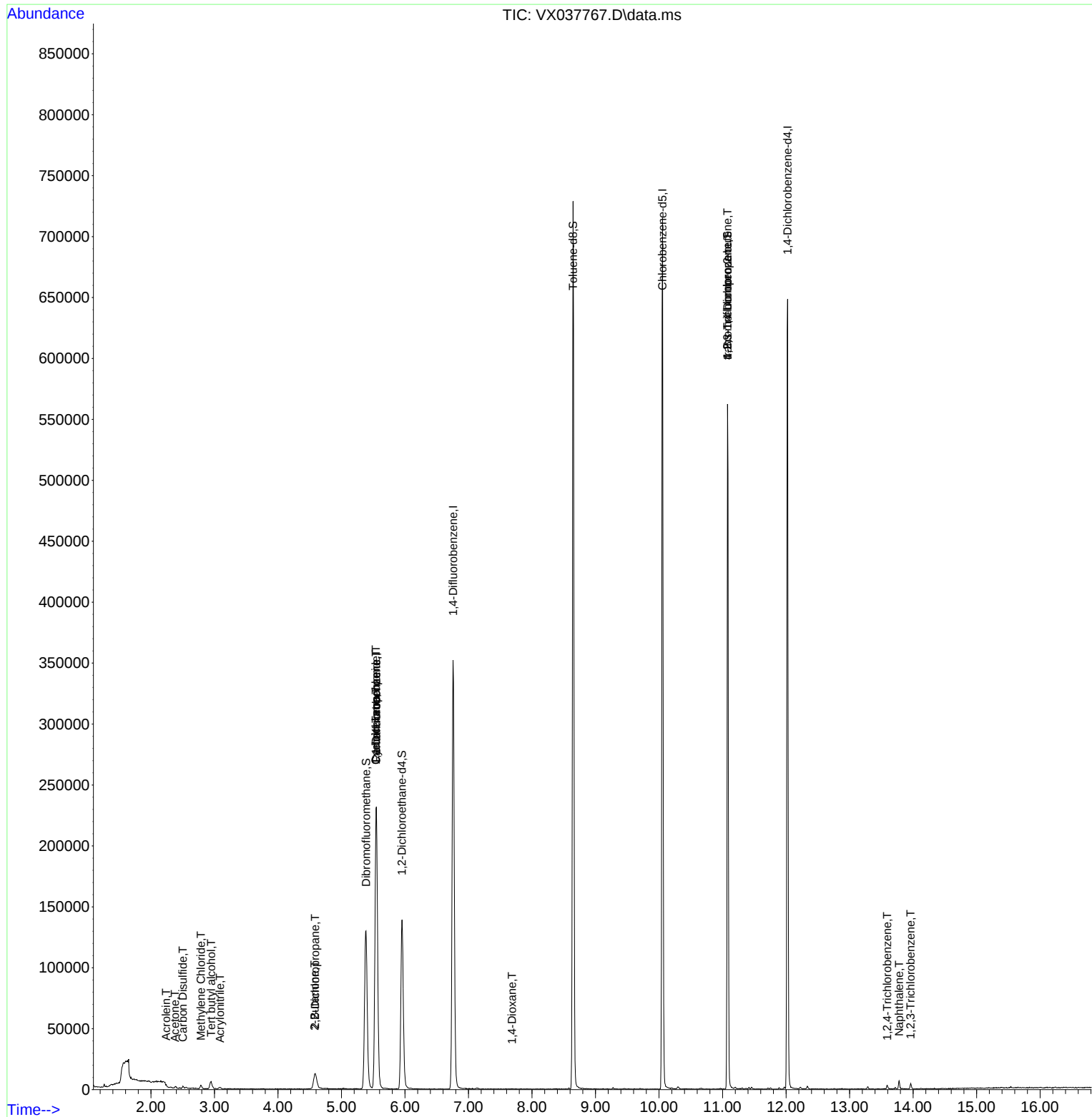
| Target Compounds              |        |     |       |        |      | Qvalue |
|-------------------------------|--------|-----|-------|--------|------|--------|
| 11) Tert butyl alcohol        | 2.947  | 59  | 4174  | 6.475  | ug/l | # 80   |
| 13) Acrolein                  | 2.239  | 56  | 769   | 1.208  | ug/l | 86     |
| 15) Acrylonitrile             | 3.087  | 53  | 512   | 0.357  | ug/l | 95     |
| 16) Acetone                   | 2.380  | 43  | 1442  | 0.998  | ug/l | 93     |
| 17) Carbon Disulfide          | 2.501  | 76  | 2158  | 0.386  | ug/l | # 95   |
| 20) Methylene Chloride        | 2.788  | 84  | 1523  | 0.545  | ug/l | # 82   |
| 25) 2-Butanone                | 4.574  | 43  | 1174  | 0.576  | ug/l | # 51   |
| 26) 2,2-Dichloropropane       | 4.586  | 77  | 1349  | 0.360  | ug/l | # 54   |
| 31) Cyclohexane               | 5.544  | 56  | 4880  | 1.266  | ug/l | # 1    |
| 36) 1,1-Dichloropropene       | 5.544  | 75  | 17554 | 5.114  | ug/l | # 51   |
| 38) Carbon Tetrachloride      | 5.544  | 117 | 22266 | 6.199  | ug/l | # 15   |
| 49) 1,4-Dioxane               | 7.683  | 88  | 207   | 2.737  | ug/l | # 36   |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75  | 73676 | 22.559 | ug/l | # 39   |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75  | 73676 | 72.266 | ug/l | # 5    |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180 | 1132  | 0.394  | ug/l | 95     |
| 95) Naphthalene               | 13.780 | 128 | 4982  | 0.512  | ug/l | 99     |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180 | 1421  | 0.480  | ug/l | 94     |

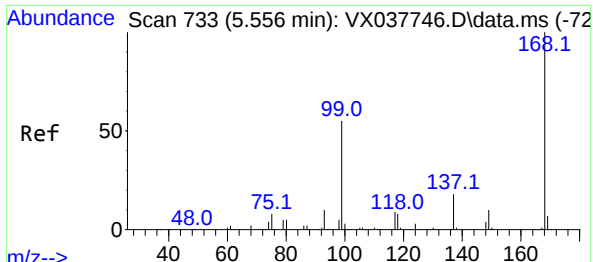
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091823\  
Data File : VX037767.D  
Acq On : 18 Sep 2023 10:34  
Operator : JC/MD  
Sample : VX0918MBL01  
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

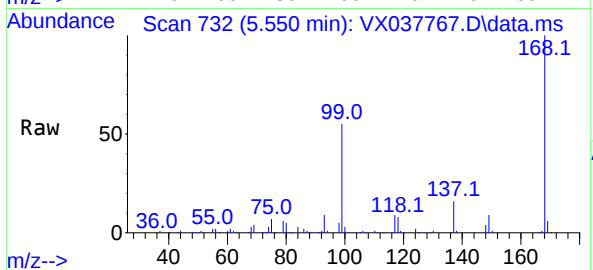
Quant Time: Sep 18 17:54:55 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091523W.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 16 04:55:44 2023  
Response via : Initial Calibration



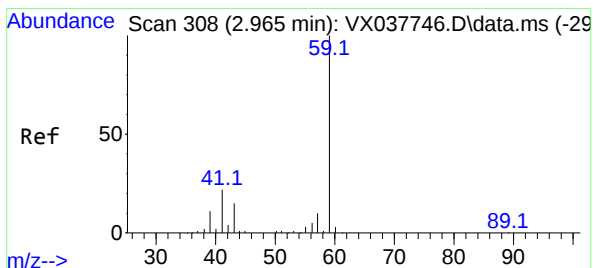
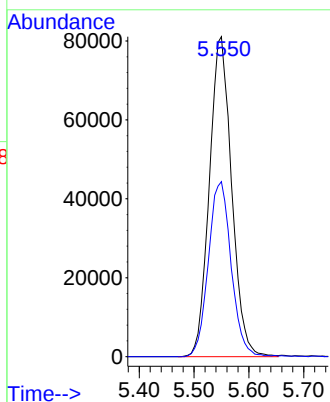


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

Instrument :  
MSVOA\_X  
ClientSampleId :

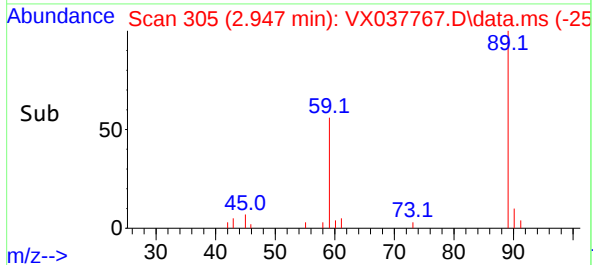
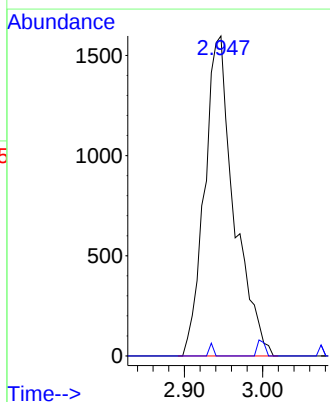
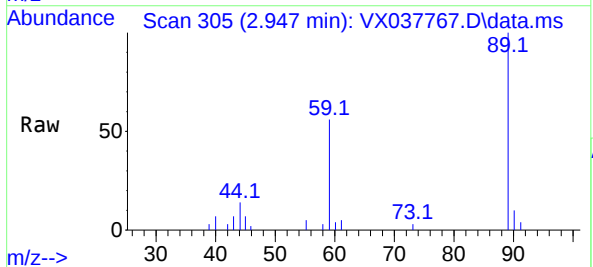


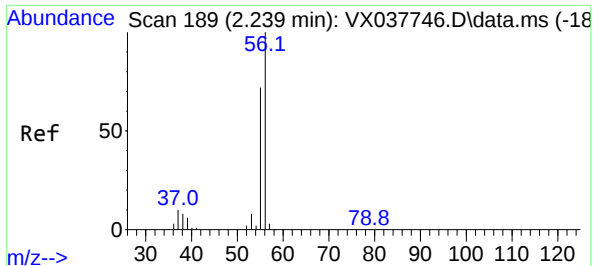
Tgt Ion:168 Resp: 228585  
Ion Ratio Lower Upper  
168 100  
99 54.7 56.6 85.0#



#11  
Tert butyl alcohol  
Concen: 6.475 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. -0.018 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

Tgt Ion: 59 Resp: 4174  
Ion Ratio Lower Upper  
59 100  
57 0.6 6.0 9.0#

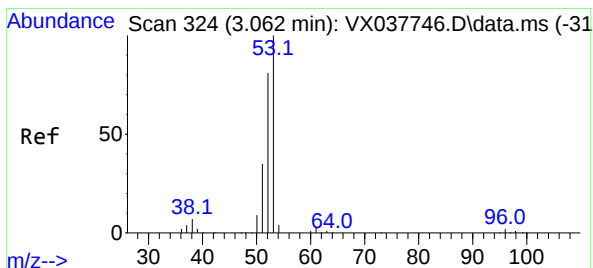
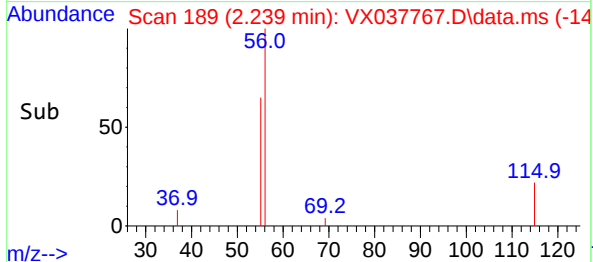
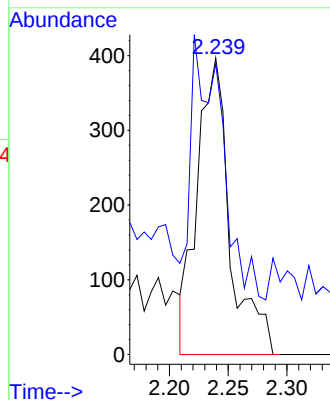
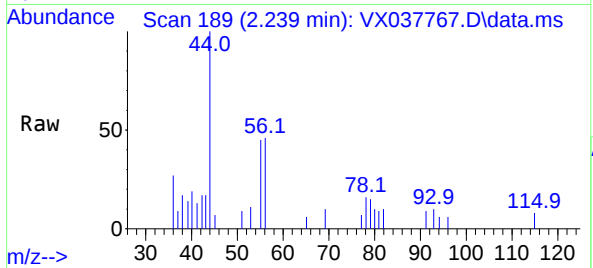




#13  
Acrolein  
Concen: 1.208 ug/l  
RT: 2.239 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

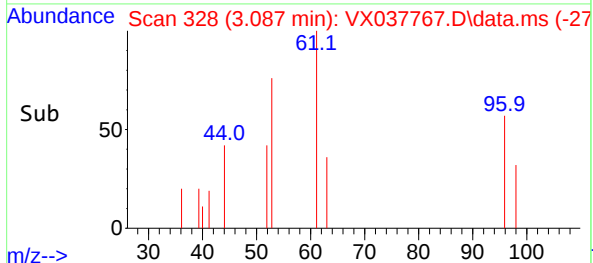
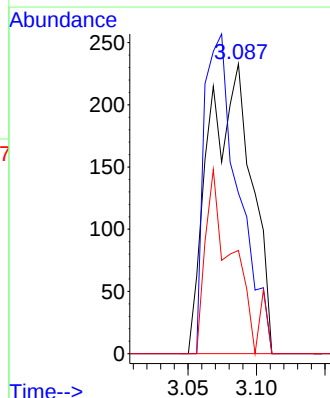
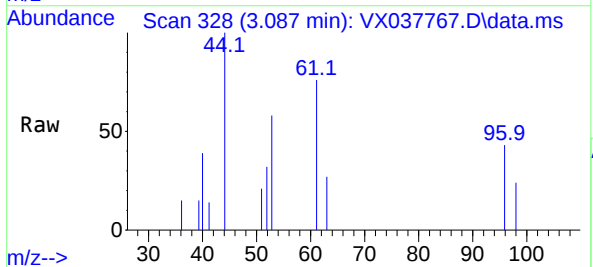
Instrument :  
MSVOA\_X  
ClientSampleId :

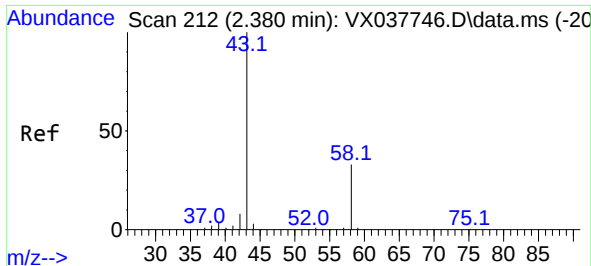
Tgt Ion: 56 Resp: 769  
Ion Ratio Lower Upper  
56 100  
55 83.0 57.1 85.7



#15  
Acrylonitrile  
Concen: 0.357 ug/l  
RT: 3.087 min Scan# 328  
Delta R.T. 0.018 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

Tgt Ion: 53 Resp: 512  
Ion Ratio Lower Upper  
53 100  
52 86.7 66.0 99.0  
51 41.4 29.8 44.6

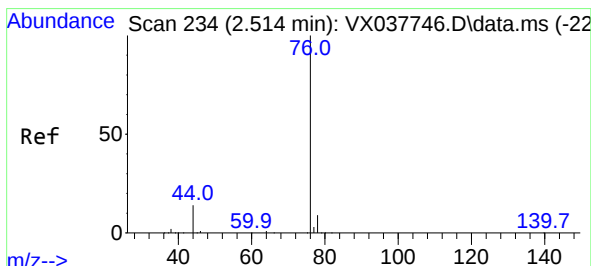
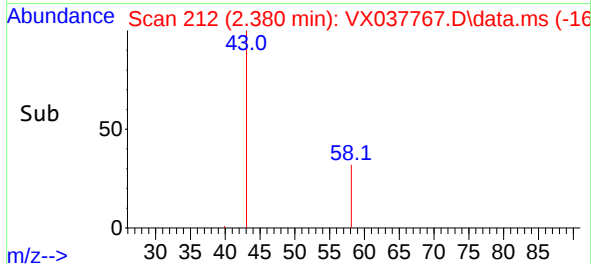
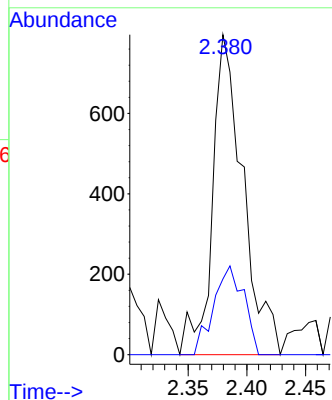
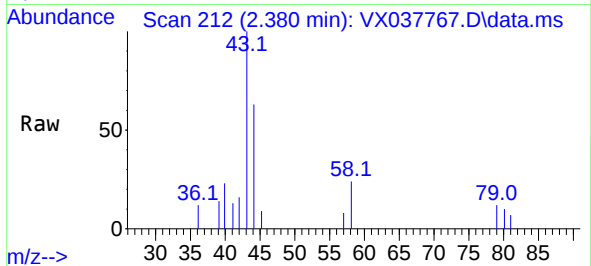




#16  
Acetone  
Concen: 0.998 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

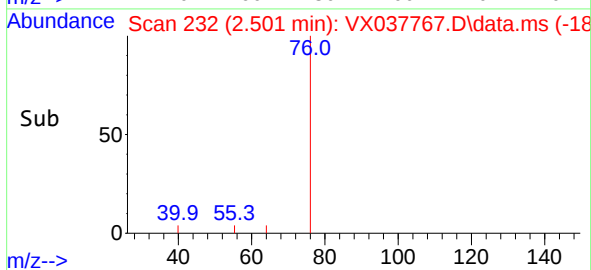
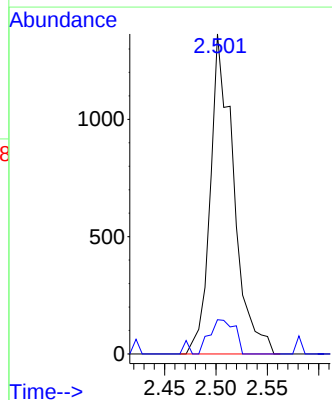
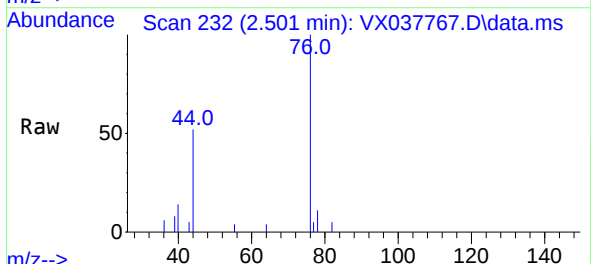
Instrument :  
MSVOA\_X  
ClientSampleId :

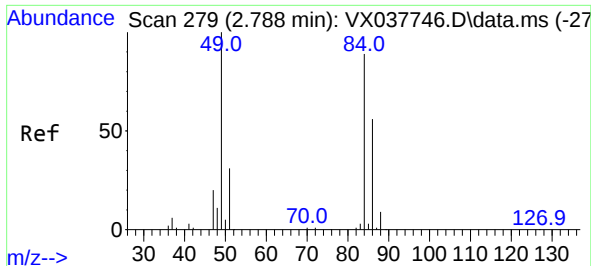
Tgt Ion: 43 Resp: 1442  
Ion Ratio Lower Upper  
43 100  
58 23.6 21.9 32.9



#17  
Carbon Disulfide  
Concen: 0.386 ug/l  
RT: 2.501 min Scan# 232  
Delta R.T. -0.012 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

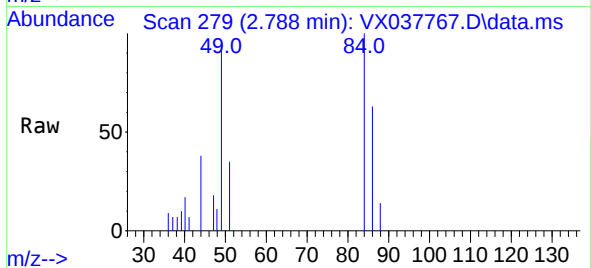
Tgt Ion: 76 Resp: 2158  
Ion Ratio Lower Upper  
76 100  
78 10.7 7.0 10.6#





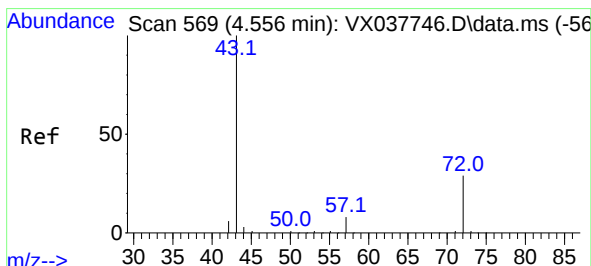
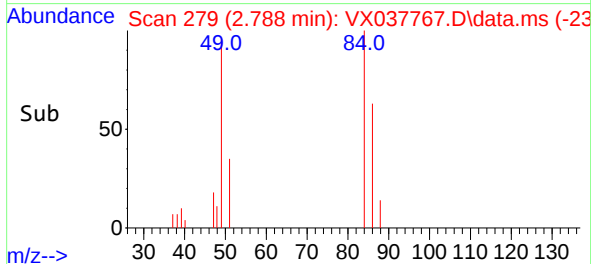
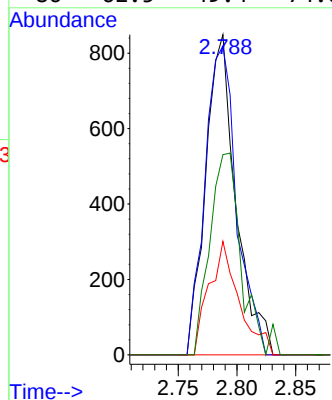
#20  
Methylene Chloride  
Concen: 0.545 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 84 Resp: 1523

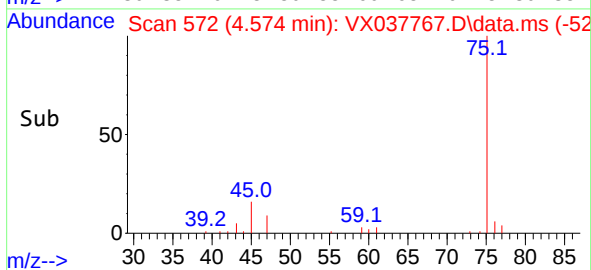
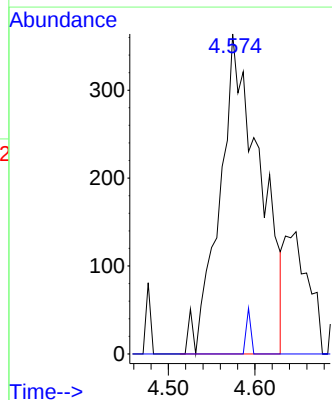
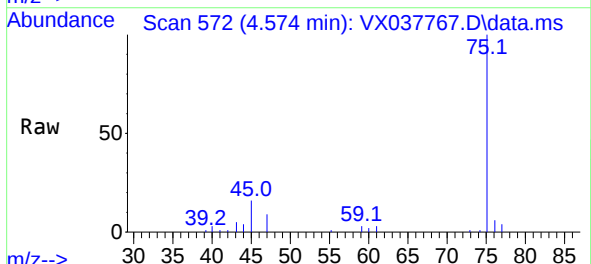
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 96.5  | 103.6 | 155.4# |
| 51  | 35.5  | 33.8  | 50.6   |
| 86  | 62.5  | 49.4  | 74.0   |

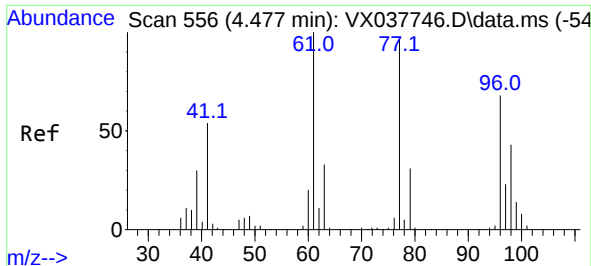


#25  
2-Butanone  
Concen: 0.576 ug/l  
RT: 4.574 min Scan# 572  
Delta R.T. 0.006 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

Tgt Ion: 43 Resp: 1174

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 19.4  | 29.2# |





#26

2,2-Dichloropropane

Concen: 0.360 ug/l

RT: 4.586 min Scan# 51

Delta R.T. 0.110 min

Lab File: VX037767.D

Acq: 18 Sep 2023 10:34

Instrument :

MSVOA\_X

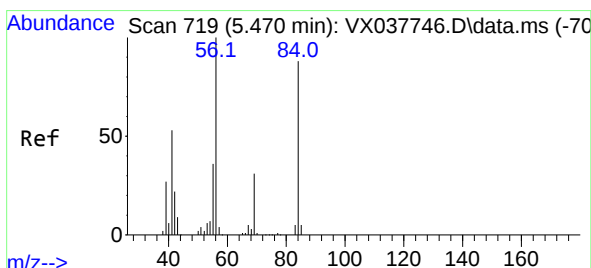
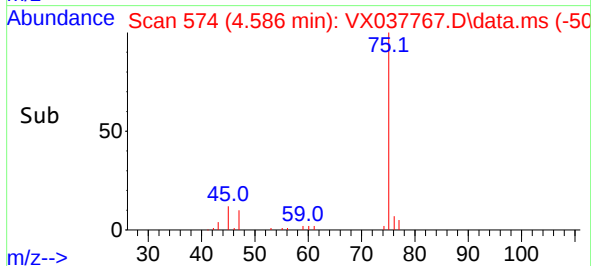
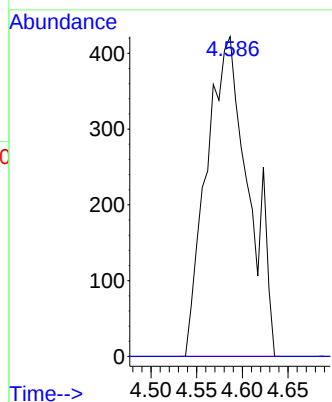
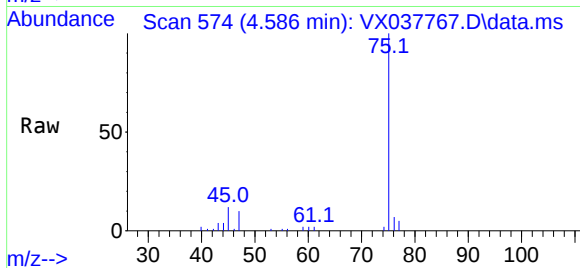
ClientSampleId :

Tgt Ion: 77 Resp: 1349

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.3#



#31

Cyclohexane

Concen: 1.266 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.073 min

Lab File: VX037767.D

Acq: 18 Sep 2023 10:34

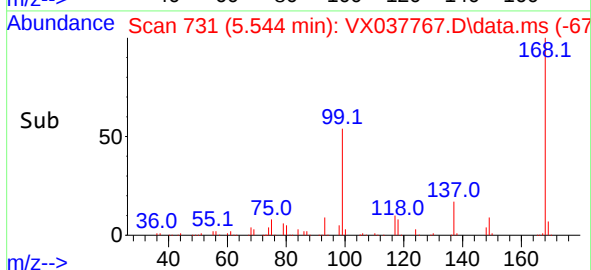
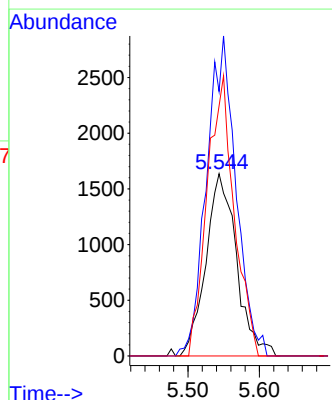
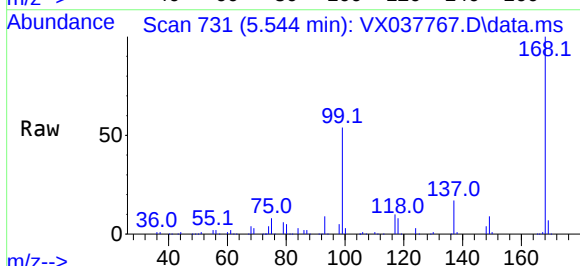
Tgt Ion: 56 Resp: 4880

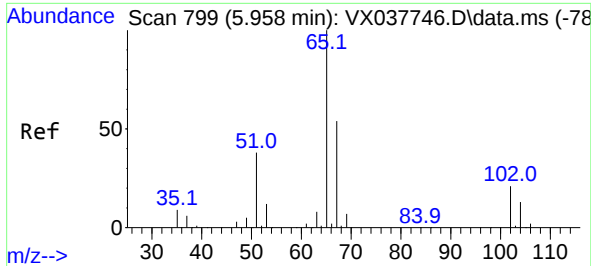
Ion Ratio Lower Upper

56 100

69 145.1 23.4 35.2#

84 137.3 65.9 98.9#

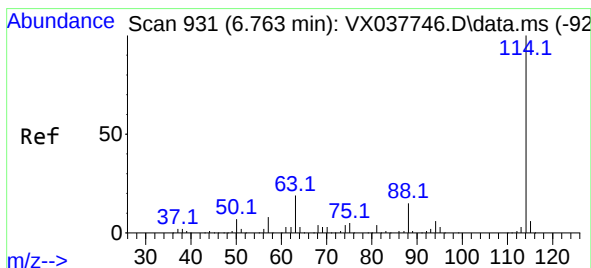
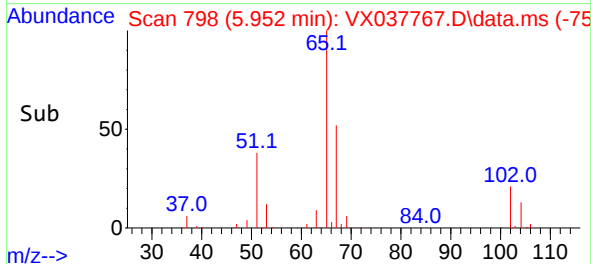
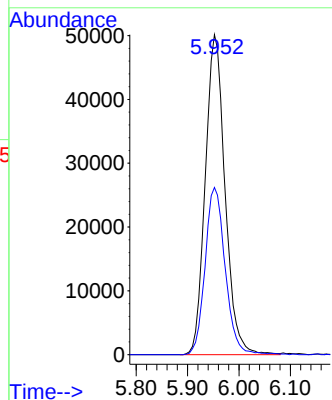
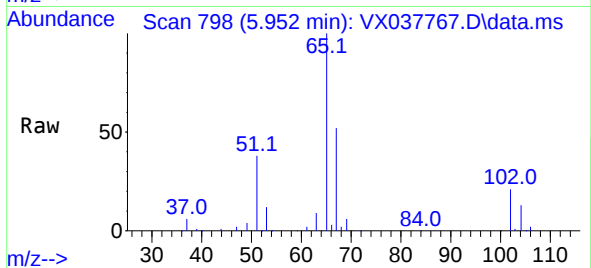




#33  
1,2-Dichloroethane-d4  
Concen: 44.578 ug/l  
RT: 5.952 min Scan# 799  
Delta R.T. -0.006 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

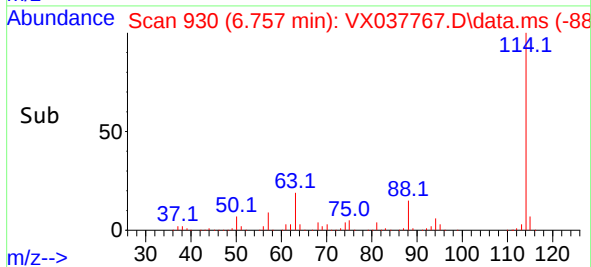
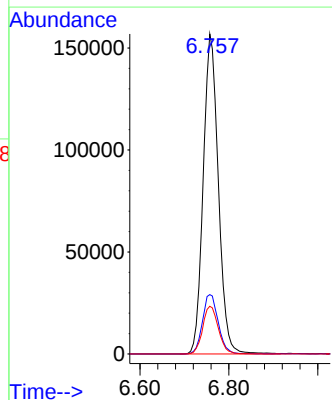
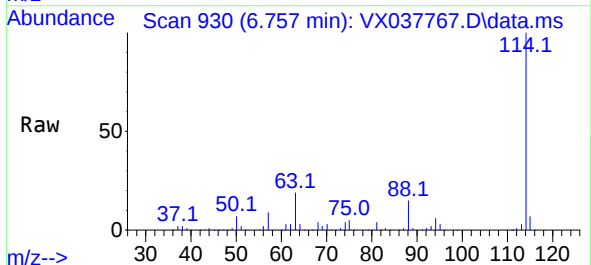
Instrument :  
MSVOA\_X  
ClientSampleId :

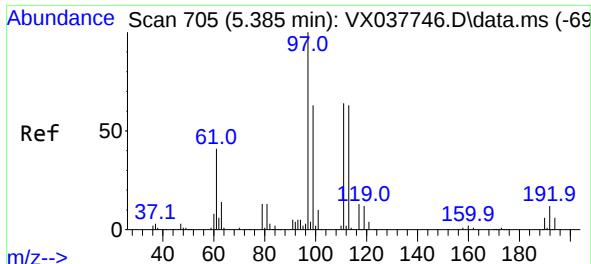
Tgt Ion: 65 Resp: 133879  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 100.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 930  
Delta R.T. -0.006 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

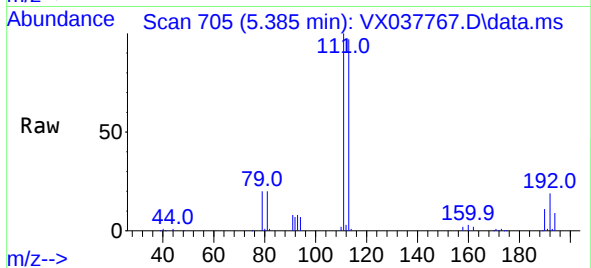
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Ion Ratio Lower Upper  
114 100  
63 18.5 0.0 45.0  
88 14.9 0.0 36.6



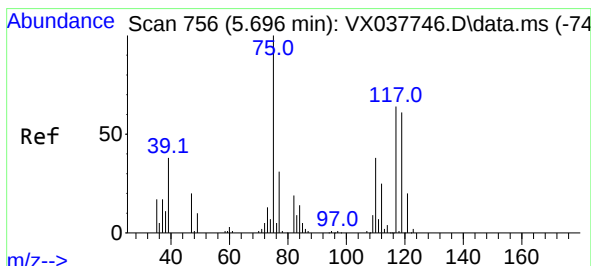
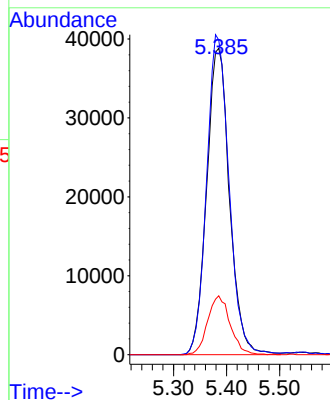
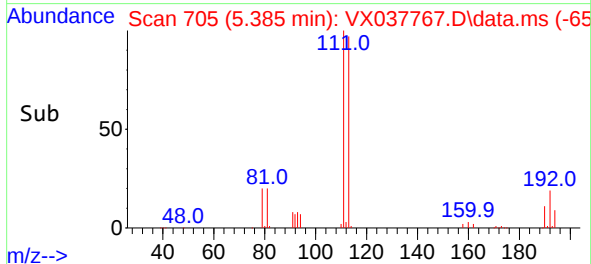


#35  
Dibromofluoromethane  
Concen: 46.568 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

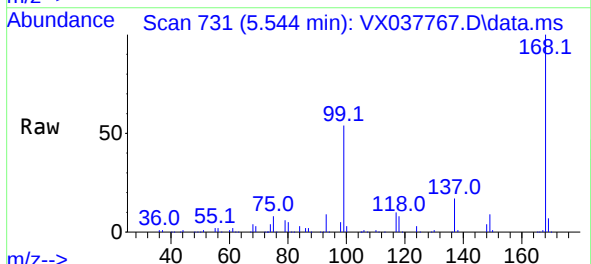
Instrument :  
MSVOA\_X  
ClientSampleId :



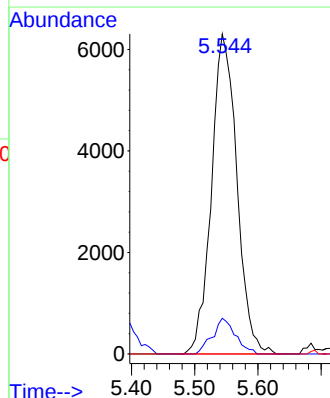
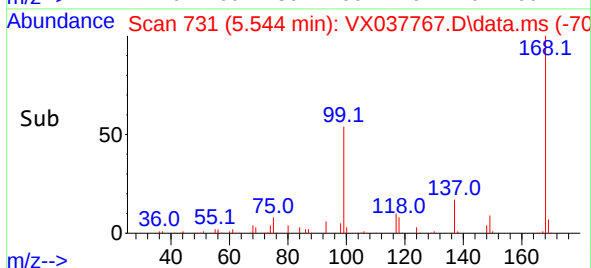
Tgt Ion:113 Resp: 116044  
Ion Ratio Lower Upper  
113 100  
111 102.5 82.9 124.3  
192 18.9 13.3 19.9

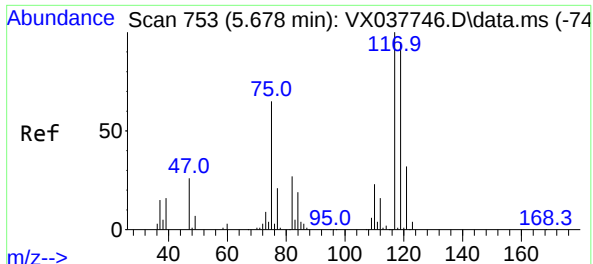


#36  
1,1-Dichloropropene  
Concen: 5.114 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.153 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34



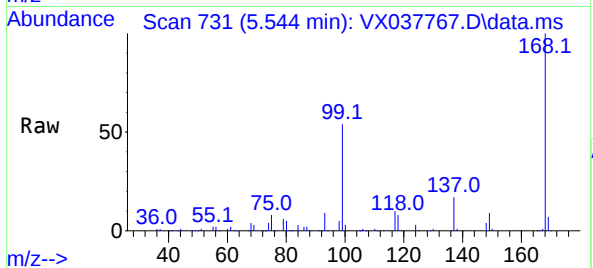
Tgt Ion: 75 Resp: 17554  
Ion Ratio Lower Upper  
75 100  
110 10.1 17.0 50.9#  
77 0.0 24.7 37.1#



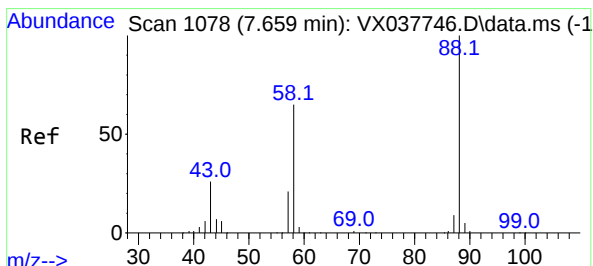
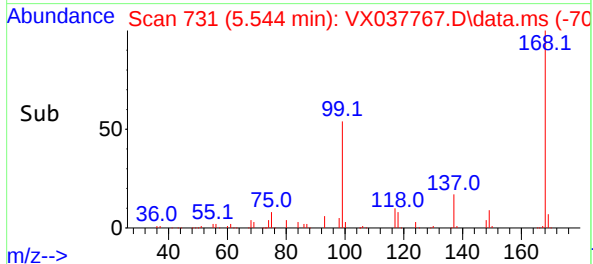
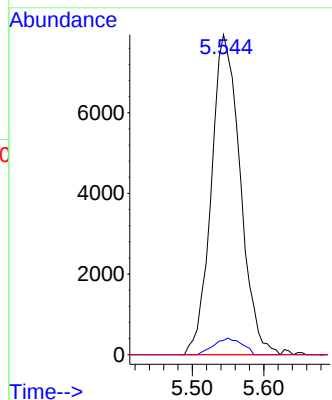


#38  
Carbon Tetrachloride  
Concen: 6.199 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.134 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

Instrument :  
MSVOA\_X  
ClientSampleId :

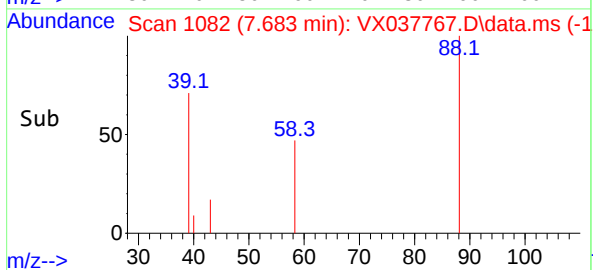
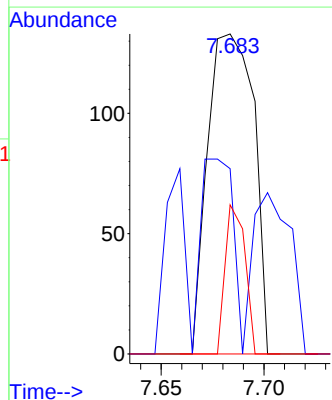
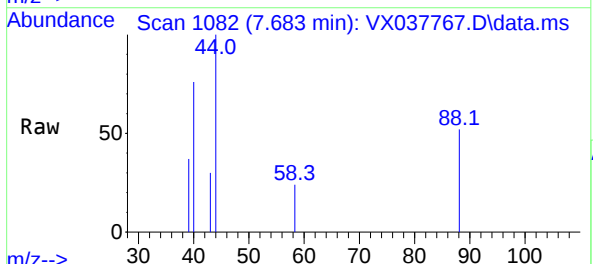


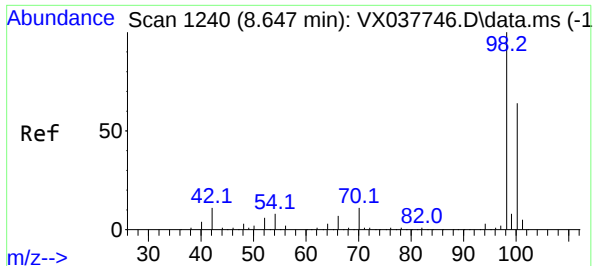
Tgt Ion:117 Resp: 22266  
Ion Ratio Lower Upper  
117 100  
119 4.5 78.2 117.2#  
121 0.0 24.4 36.6#



#49  
1,4-Dioxane  
Concen: 2.737 ug/l  
RT: 7.683 min Scan# 1082  
Delta R.T. 0.012 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

Tgt Ion: 88 Resp: 207  
Ion Ratio Lower Upper  
88 100  
43 42.0 0.0 0.0#  
58 20.3 60.1 90.1#

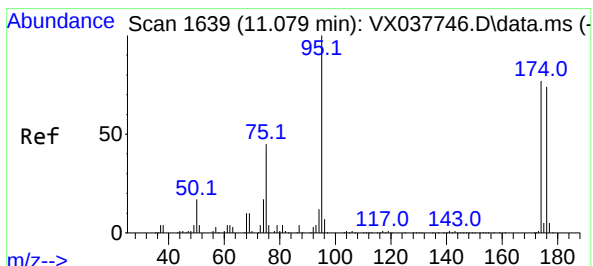
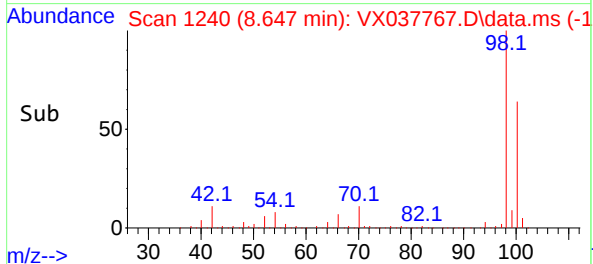
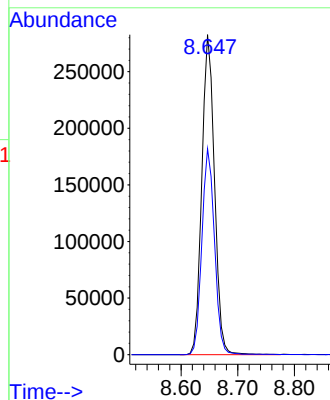
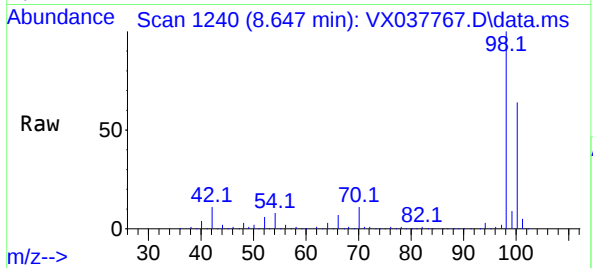




#50  
Toluene-d8  
Concen: 47.521 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

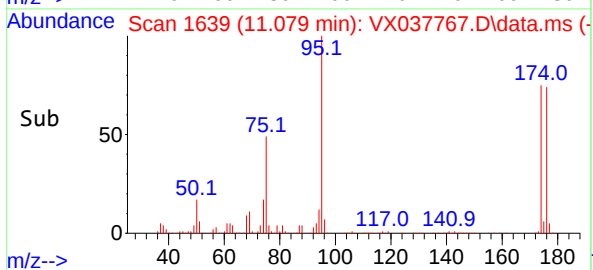
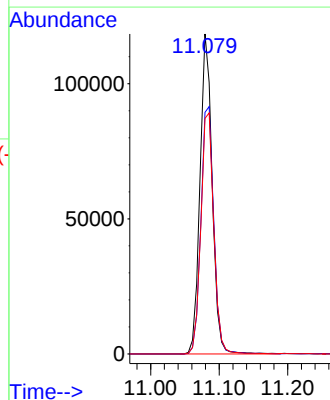
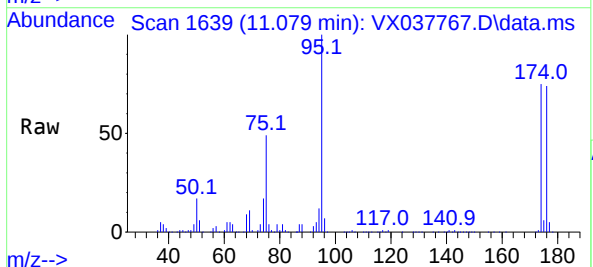
Instrument :  
MSVOA\_X  
ClientSampleId :

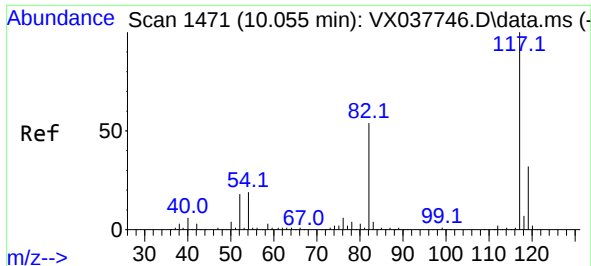
Tgt Ion: 98 Resp: 439998  
Ion Ratio Lower Upper  
98 100  
100 64.2 53.1 79.7



#62  
4-Bromofluorobenzene  
Concen: 43.630 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

Tgt Ion: 95 Resp: 146798  
Ion Ratio Lower Upper  
95 100  
174 81.8 0.0 135.6  
176 80.0 0.0 131.0

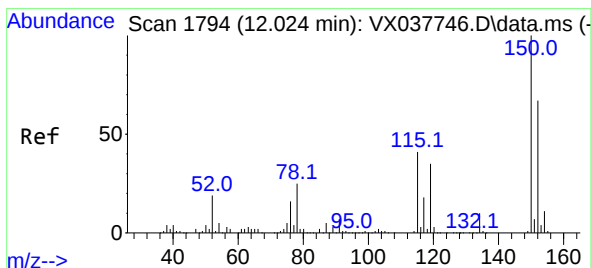
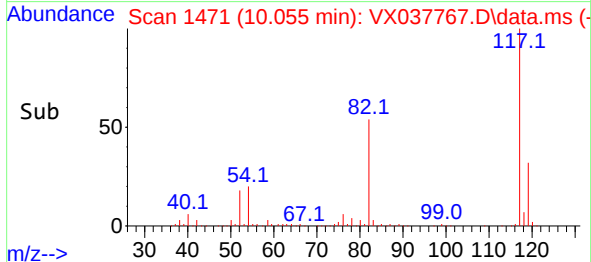
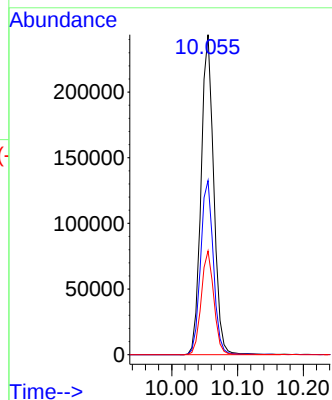
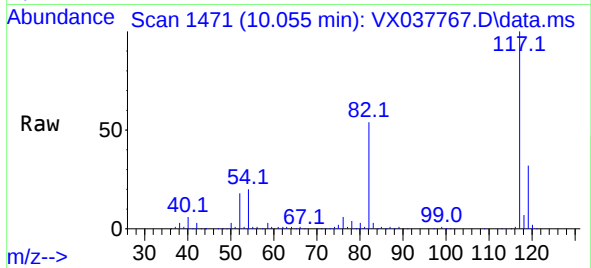




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

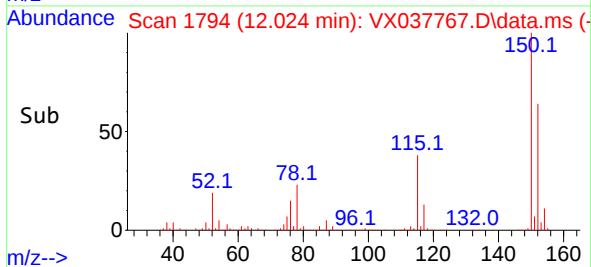
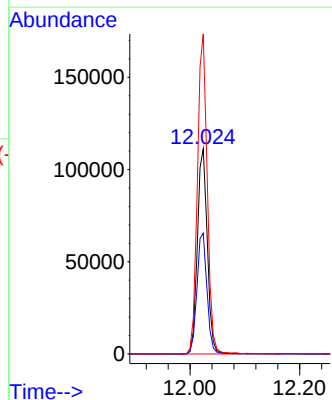
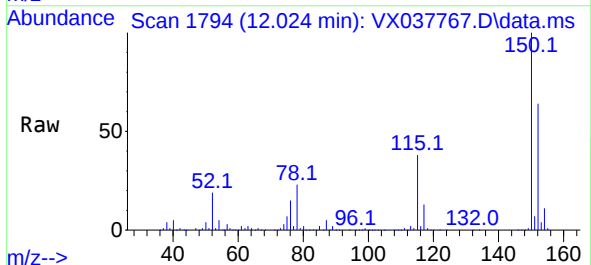
Instrument :  
MSVOA\_X  
ClientSampleId :

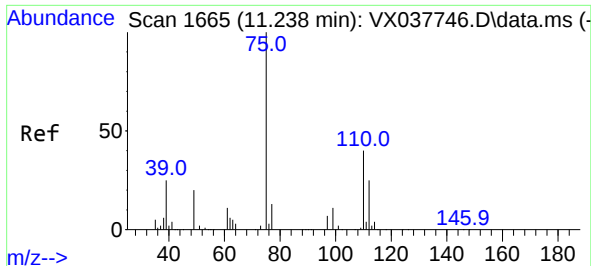
Tgt Ion:117 Resp: 325675  
Ion Ratio Lower Upper  
117 100  
82 54.4 46.2 69.4  
119 32.4 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

Tgt Ion:152 Resp: 141203  
Ion Ratio Lower Upper  
152 100  
115 59.5 43.3 129.9  
150 154.6 0.0 345.0

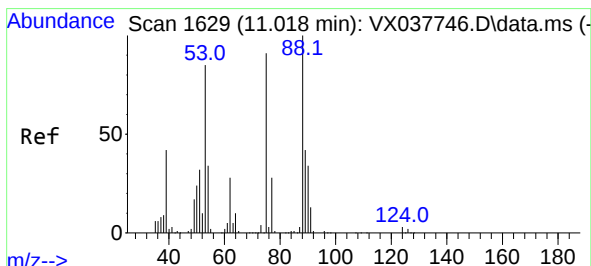
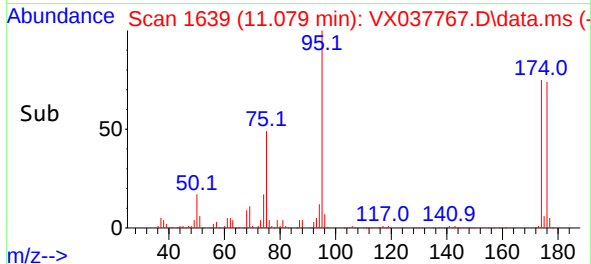
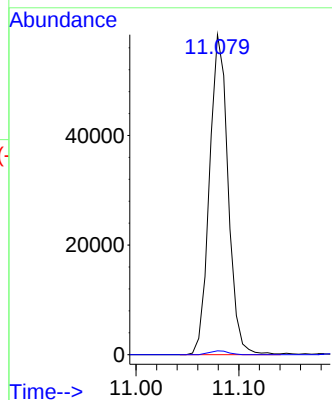
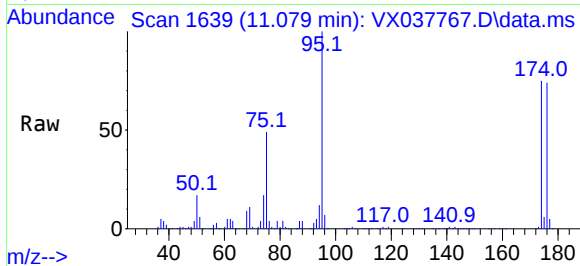




#76  
1,2,3-Trichloropropane  
Concen: 22.559 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

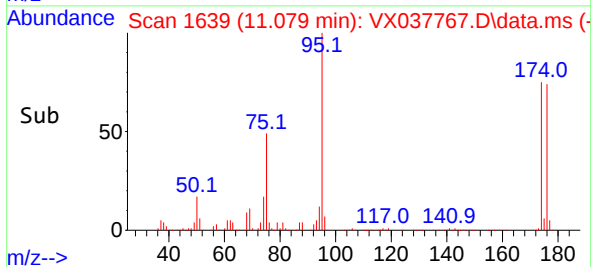
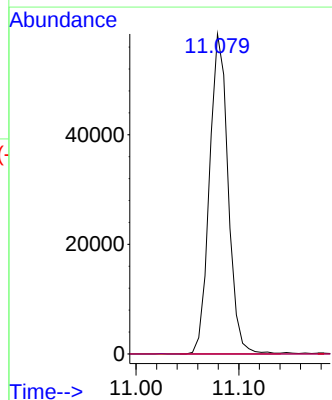
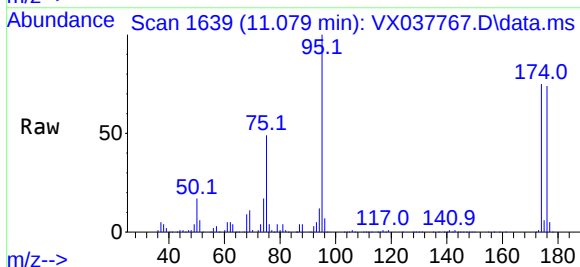
Instrument :  
MSVOA\_X  
ClientSampleId :

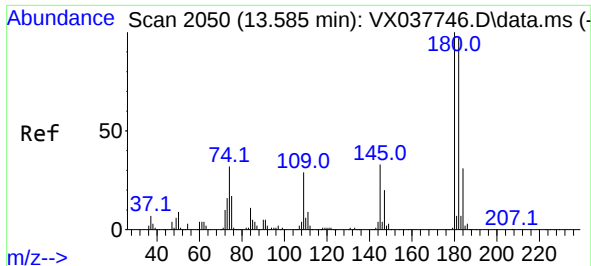
Tgt Ion: 75 Resp: 73676  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 72.266 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

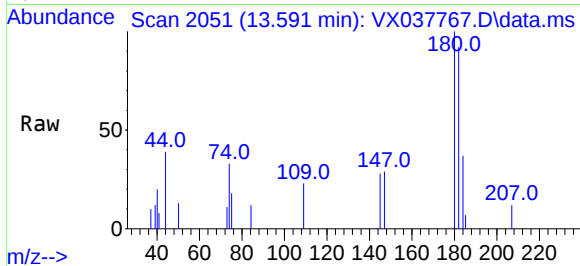
Tgt Ion: 75 Resp: 73676  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



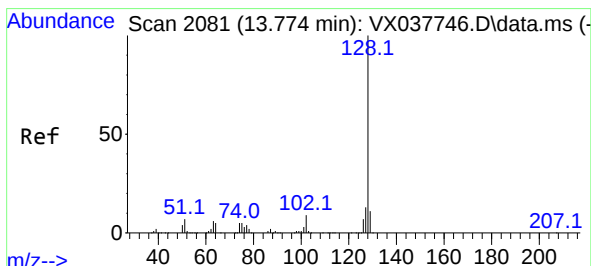
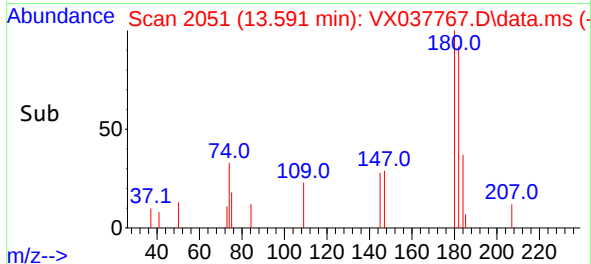
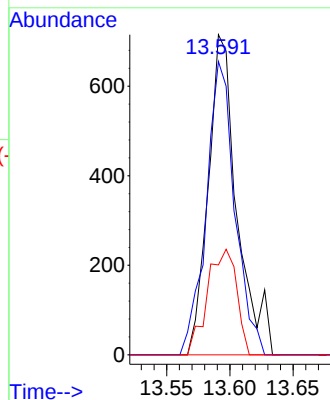


#93  
1,2,4-Trichlorobenzene  
Concen: 0.394 ug/l  
RT: 13.591 min Scan# 2051  
Delta R.T. -0.000 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

Instrument :  
MSVOA\_X  
ClientSampleId :

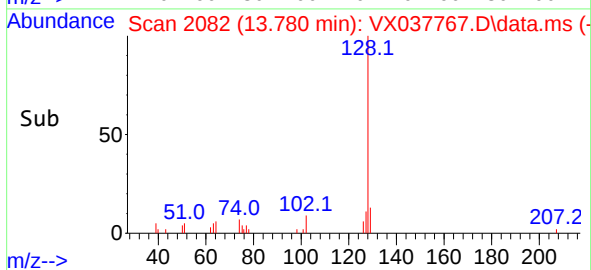
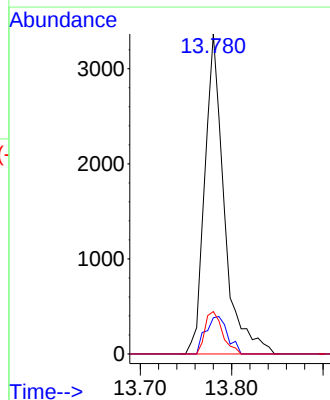
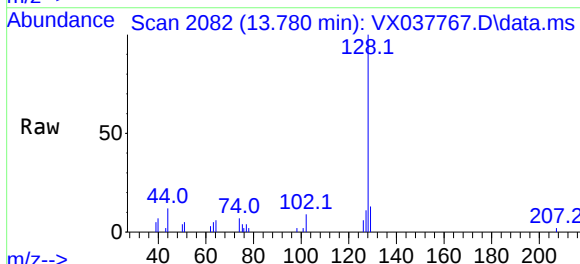


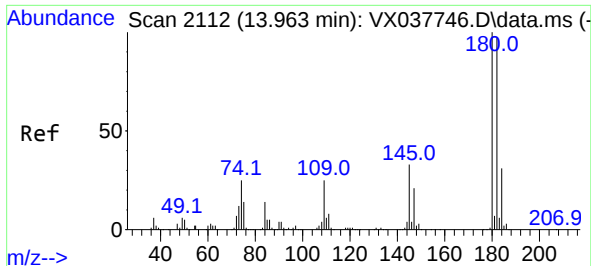
Tgt Ion:180 Resp: 1132  
Ion Ratio Lower Upper  
180 100  
182 91.1 48.3 144.8  
145 33.4 18.0 54.0



#95  
Naphthalene  
Concen: 0.512 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. -0.000 min  
Lab File: VX037767.D  
Acq: 18 Sep 2023 10:34

Tgt Ion:128 Resp: 4982  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.3 15.5  
129 11.8 8.8 13.2





#96

1,2,3-Trichlorobenzene

Concen: 0.480 ug/l

RT: 13.963 min Scan# 21

Delta R.T. -0.000 min

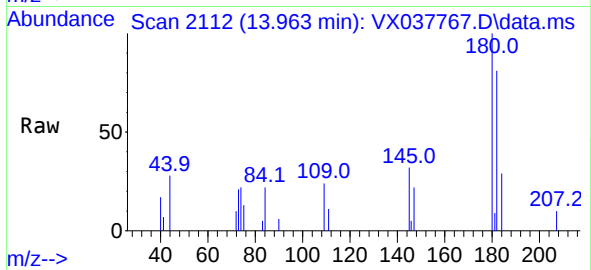
Lab File: VX037767.D

Acq: 18 Sep 2023 10:34

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion:180 Resp: 1421

Ion Ratio Lower Upper

180 100

182 86.6 46.9 140.6

145 33.8 17.8 53.5

