

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022224\  
 Data File : VX040403.D  
 Acq On : 22 Feb 2024 15:49  
 Operator : JC/MD  
 Sample : P1532-03DL 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Feb 23 00:08:45 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X020924W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 12 00:21:14 2024  
 Response via : Initial Calibration

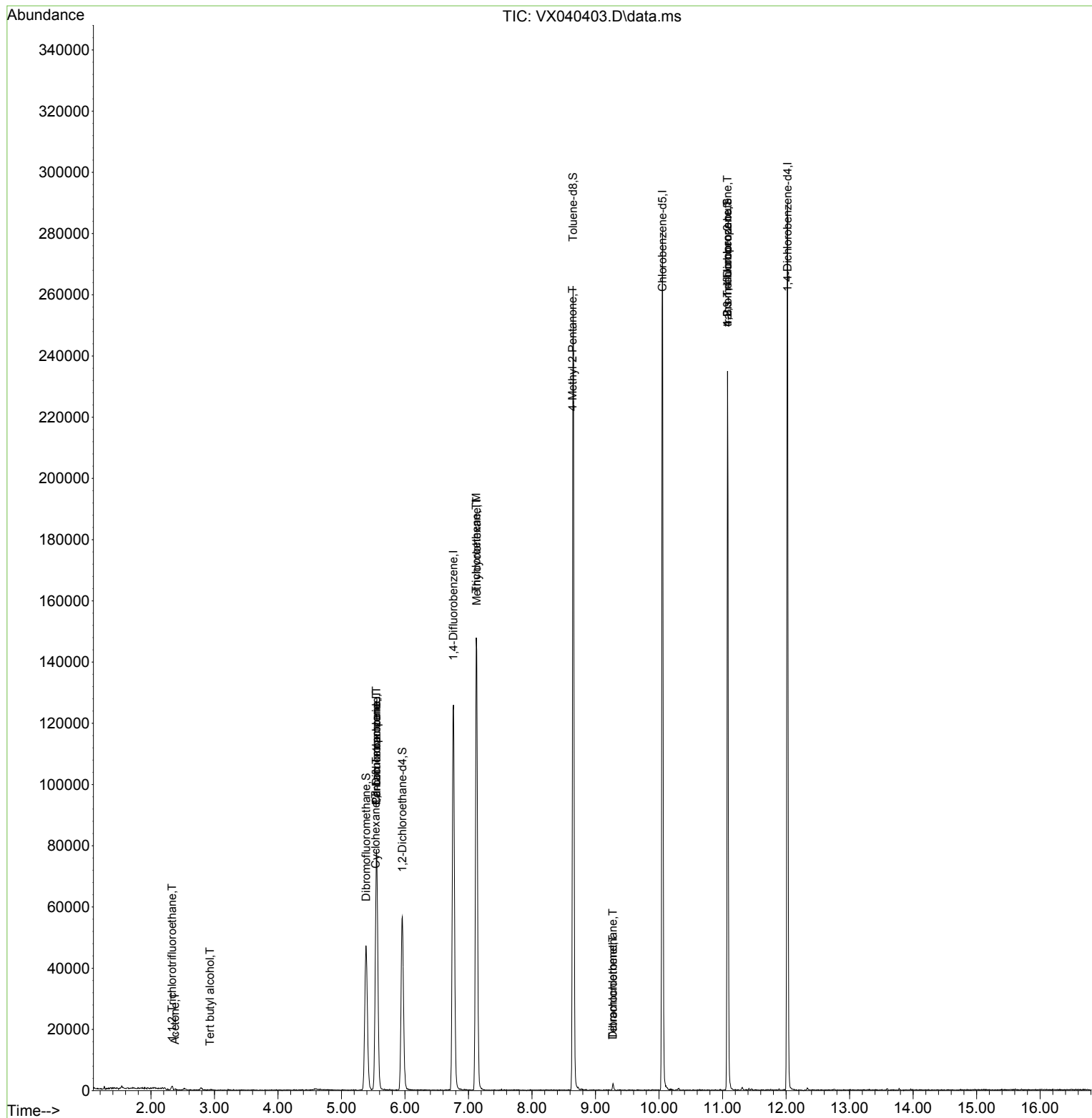
| Compound                      | R.T. QIon |       | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|--------|----------|
| -----                         |           |       |          |           |        |          |
| Internal Standards            |           |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.550     | 168   | 67619    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763     | 114   | 124221   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 118401   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 57281    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |           |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958     | 65    | 56607    | 56.271    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 78 - 117 | Recovery  | =      | 112.540% |
| 35) Dibromofluoromethane      | 5.385     | 113   | 40242    | 46.389    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery  | =      | 92.780%  |
| 50) Toluene-d8                | 8.647     | 98    | 152278   | 46.927    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 92 - 112 | Recovery  | =      | 93.860%  |
| 62) 4-Bromofluorobenzene      | 11.079    | 95    | 58121    | 43.916    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery  | =      | 87.840%  |
| Target Compounds              |           |       |          |           |        |          |
|                               |           |       |          |           |        | Qvalue   |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331     | 101   | 579      | 0.808     | ug/l # | 81       |
| 11) Tert butyl alcohol        | 2.928     | 59    | 83       | 0.424     | ug/l # | 78       |
| 16) Acetone                   | 2.380     | 43    | 354      | 0.857     | ug/l # | 47       |
| 20) Methylene Chloride        | 2.782     | 84    | 414      | Below Cal | #      | 87       |
| 31) Cyclohexane               | 5.537     | 56    | 2140     | 1.783     | ug/l # | 40       |
| 36) 1,1-Dichloropropene       | 5.550     | 75    | 6889     | 5.669     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.550     | 117   | 7993     | 6.918     | ug/l # | 15       |
| 39) Methylcyclohexane         | 7.129     | 83    | 768      | 0.544     | ug/l # | 1        |
| 44) Trichloroethene           | 7.123     | 130   | 53367    | 56.932    | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 8.641     | 43    | 736      | 0.511     | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.275     | 129   | 249      | 0.257     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275     | 164   | 228      | 0.275     | ug/l # | 52       |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75    | 32759    | 28.241    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75    | 32759    | 77.225    | ug/l # | 5        |
| -----                         |           |       |          |           |        |          |

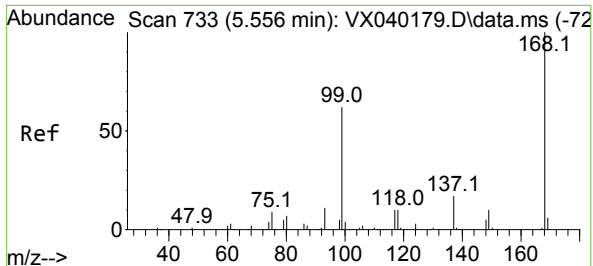
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022224\  
Data File : VX040403.D  
Acq On : 22 Feb 2024 15:49  
Operator : JC/MD  
Sample : P1532-03DL 5X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Feb 23 00:08:45 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X020924W.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 12 00:21:14 2024  
Response via : Initial Calibration

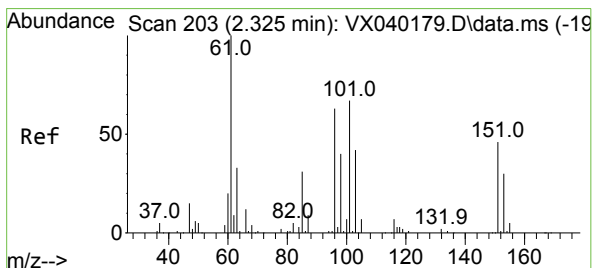
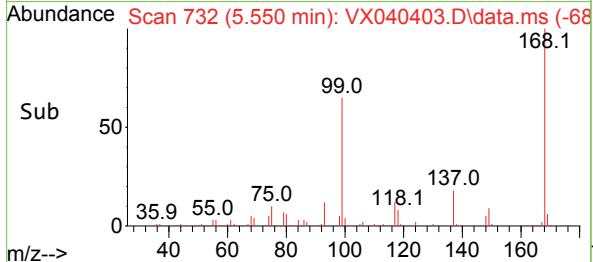
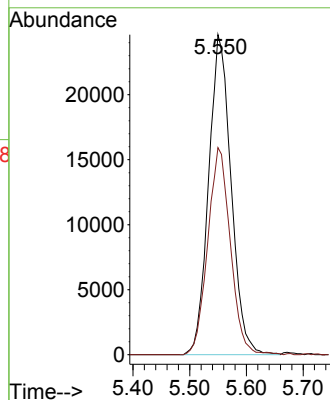
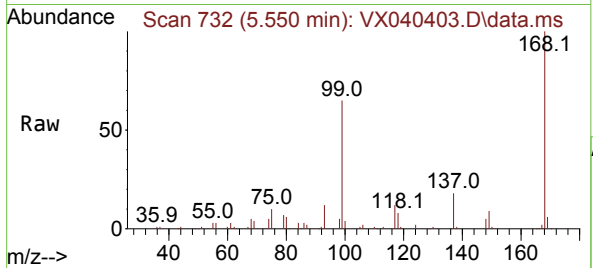




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

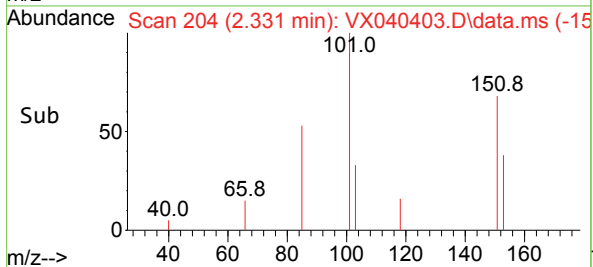
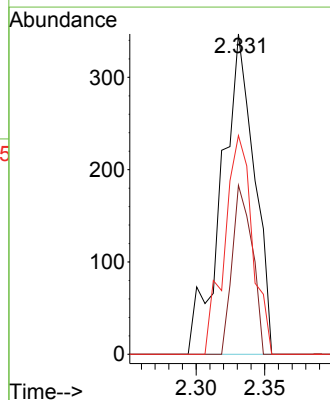
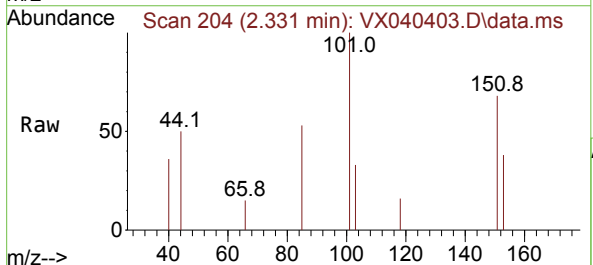
Instrument :  
MSVOA\_X  
ClientSampleId :

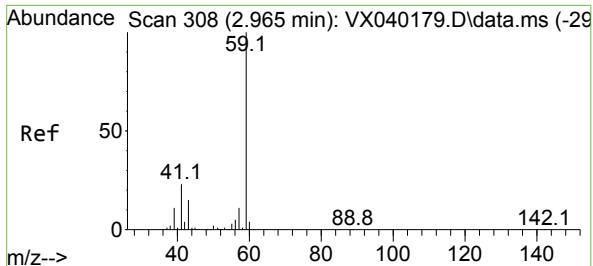
Tgt Ion:168 Resp: 67619  
Ion Ratio Lower Upper  
168 100  
99 64.7 56.6 85.0



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.808 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. 0.006 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

Tgt Ion:101 Resp: 579  
Ion Ratio Lower Upper  
101 100  
85 32.1 37.0 55.6#  
151 58.2 58.6 87.8#

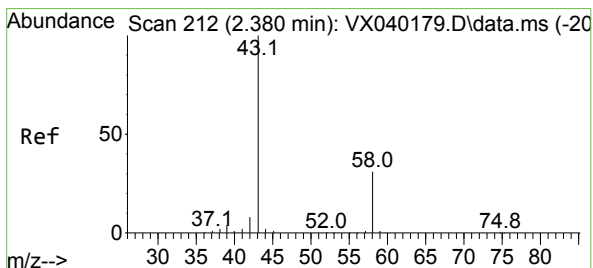
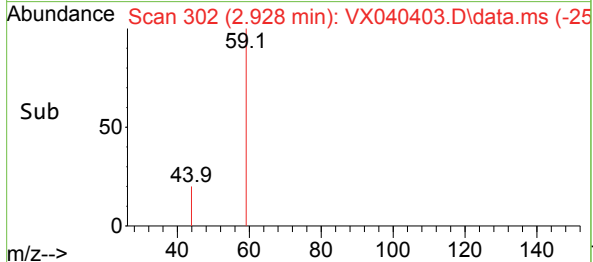
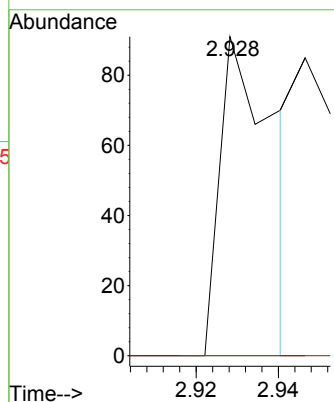
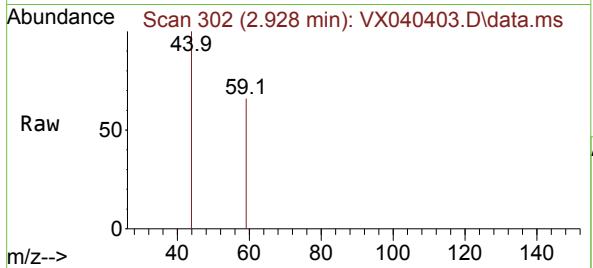




#11  
Tert butyl alcohol  
Concen: 0.424 ug/l  
RT: 2.928 min Scan# 308  
Delta R.T. -0.037 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

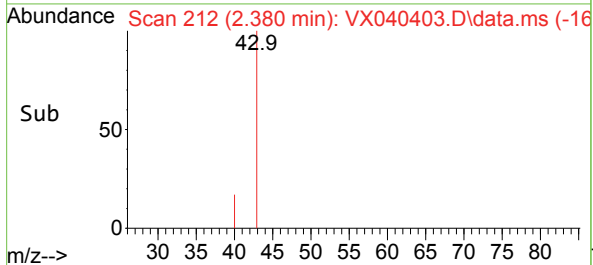
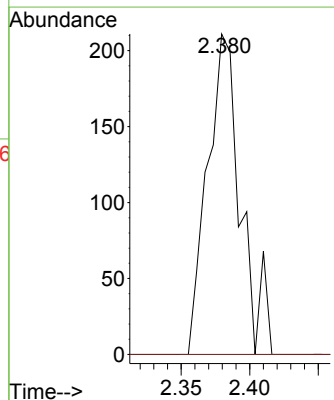
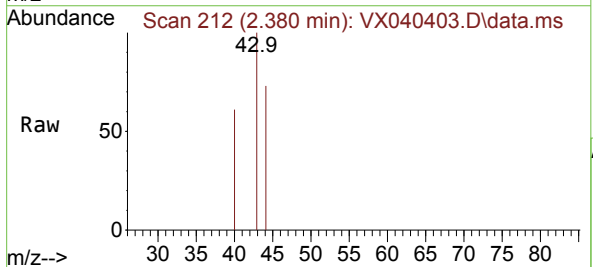
Instrument :  
MSVOA\_X  
ClientSampleId :

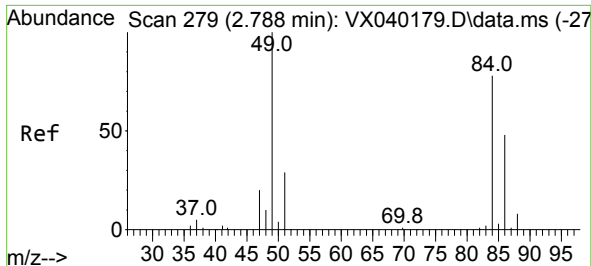
Tgt Ion: 59 Resp: 83  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#



#16  
Acetone  
Concen: 0.857 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.000 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

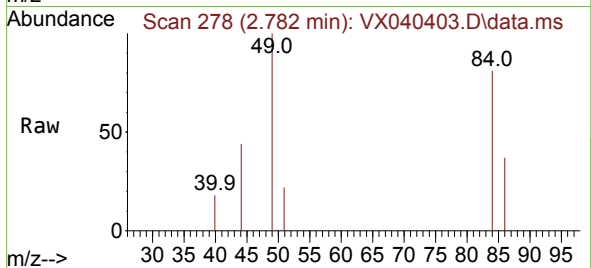
Tgt Ion: 43 Resp: 354  
Ion Ratio Lower Upper  
43 100  
58 0.0 21.9 32.9#





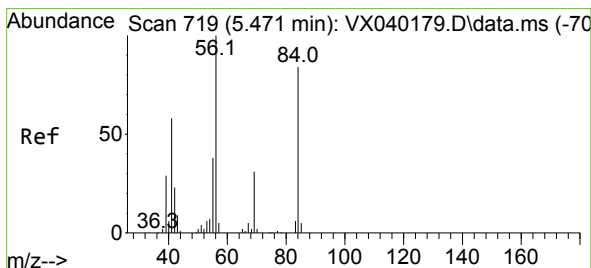
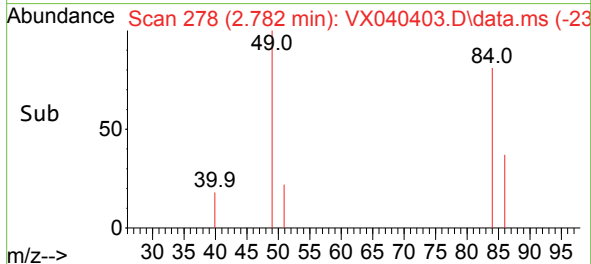
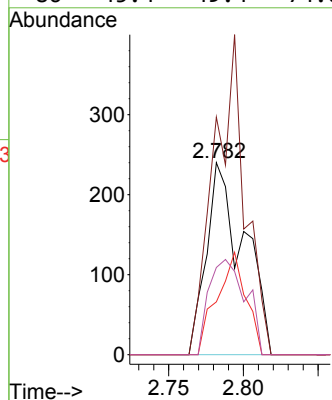
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.782 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 84 Resp: 414

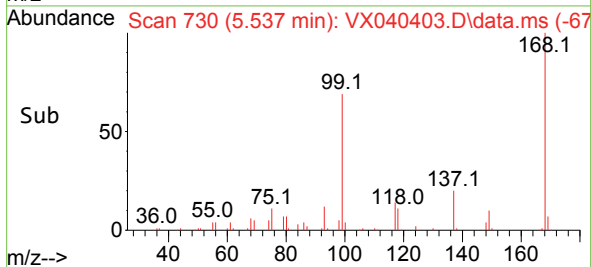
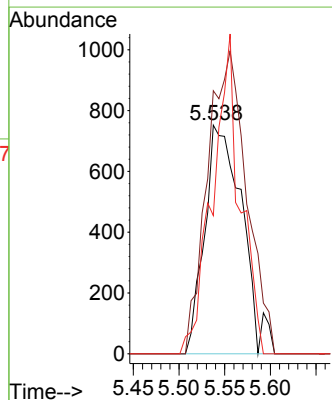
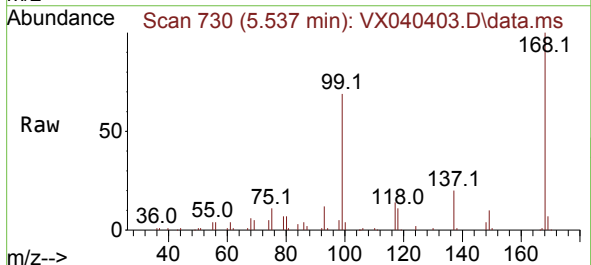
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 123.8 | 103.6 | 155.4 |
| 51  | 27.5  | 33.8  | 50.6# |
| 86  | 45.4  | 49.4  | 74.0# |

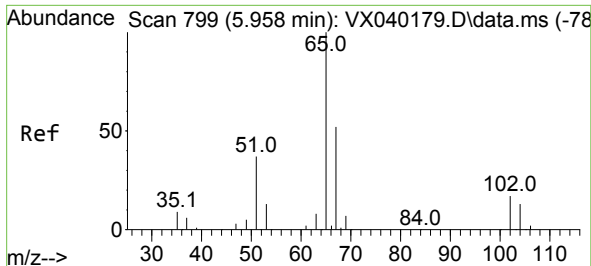


#31  
Cyclohexane  
Concen: 1.783 ug/l  
RT: 5.537 min Scan# 730  
Delta R.T. 0.067 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

Tgt Ion: 56 Resp: 2140

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 115.0 | 23.4  | 35.2# |
| 84  | 60.5  | 65.9  | 98.9# |

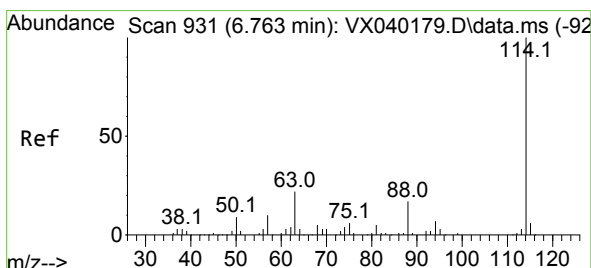
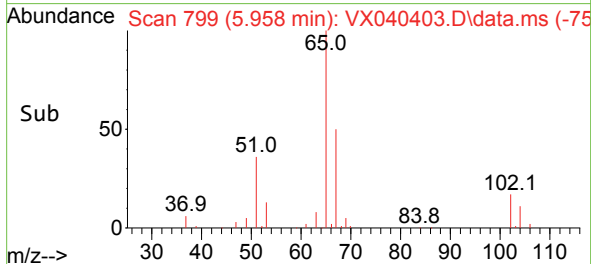
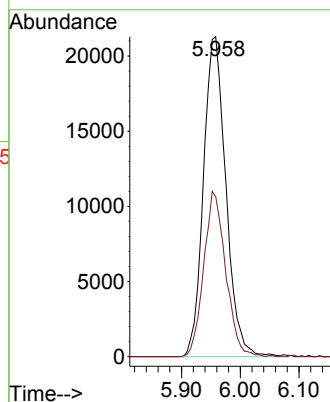
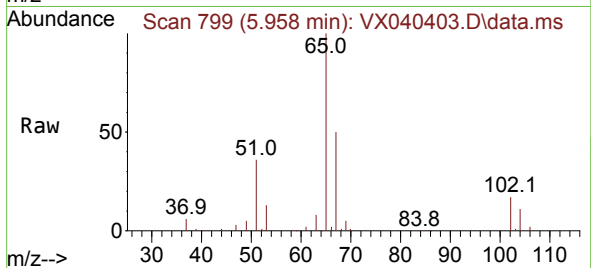




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.271 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. 0.000 min  
 Lab File: VX040403.D  
 Acq: 22 Feb 2024 15:49

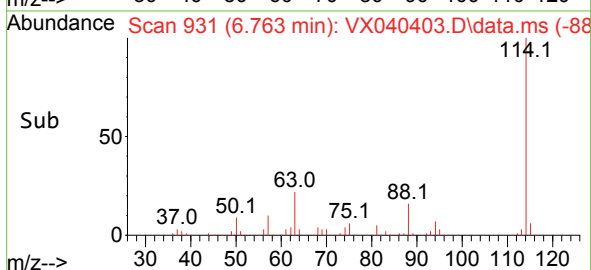
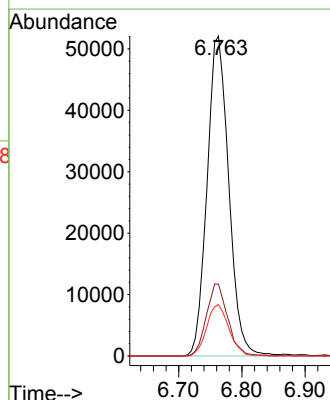
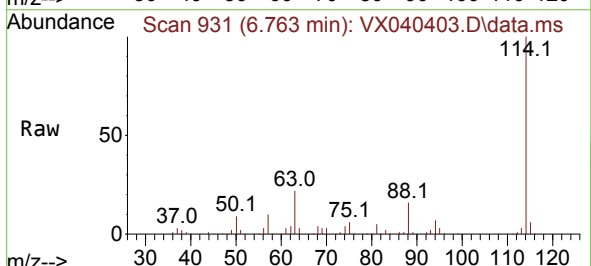
Instrument :  
 MSVOA\_X  
 ClientSampleId :

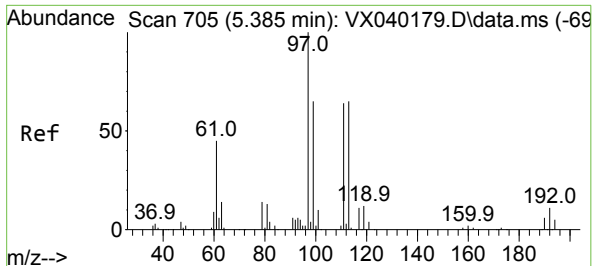
Tgt Ion: 65 Resp: 56607  
 Ion Ratio Lower Upper  
 65 100  
 67 50.4 0.0 100.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. 0.000 min  
 Lab File: VX040403.D  
 Acq: 22 Feb 2024 15:49

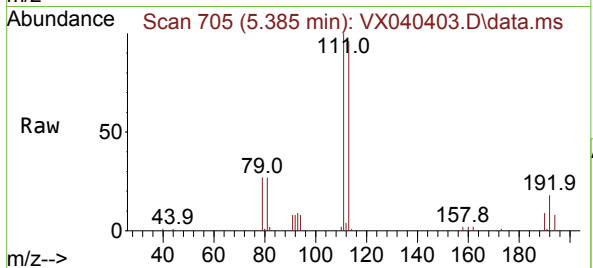
Tgt Ion: 114 Resp: 124221  
 Ion Ratio Lower Upper  
 114 100  
 63 22.5 0.0 45.0  
 88 16.0 0.0 36.6



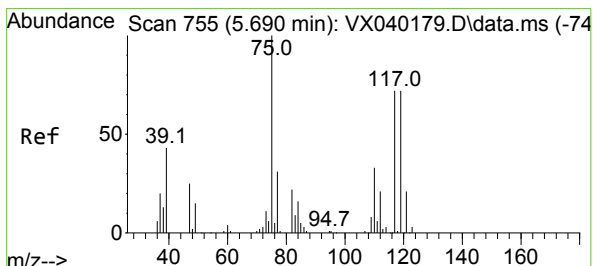
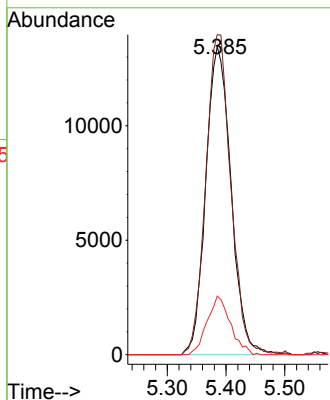
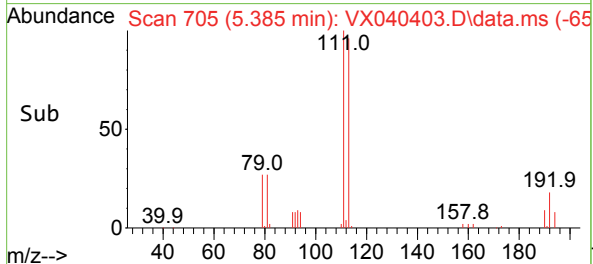


#35  
Dibromofluoromethane  
Concen: 46.389 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

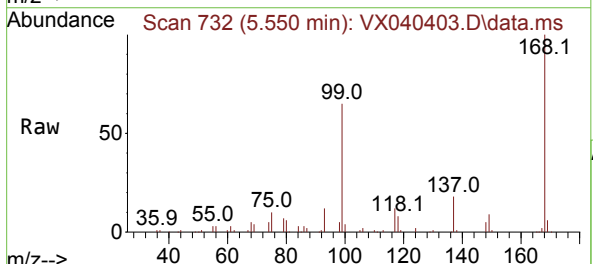
Instrument :  
MSVOA\_X  
ClientSampleId :



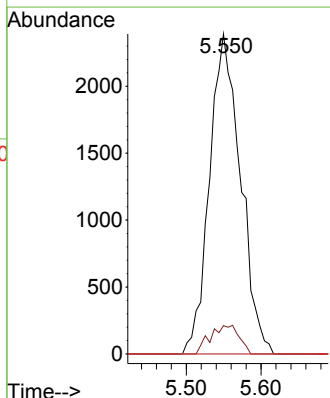
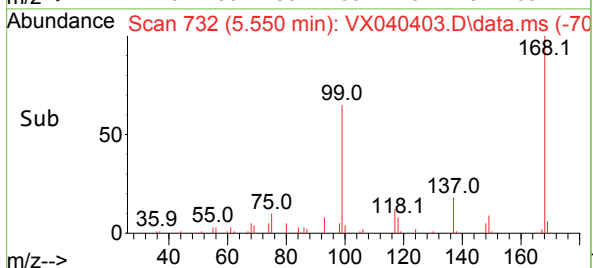
Tgt Ion:113 Resp: 40242  
Ion Ratio Lower Upper  
113 100  
111 102.5 82.9 124.3  
192 17.6 13.3 19.9

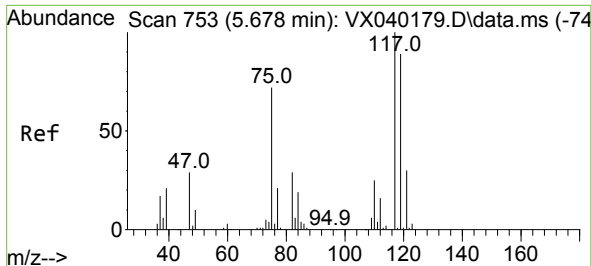


#36  
1,1-Dichloropropene  
Concen: 5.669 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.146 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49



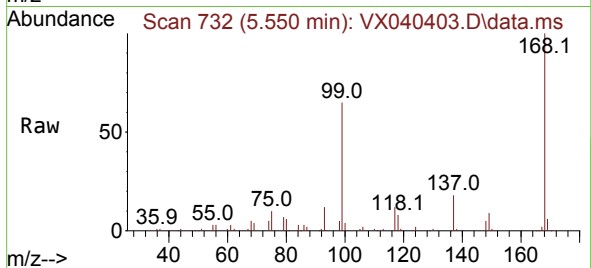
Tgt Ion: 75 Resp: 6889  
Ion Ratio Lower Upper  
75 100  
110 8.3 17.0 50.9#  
77 0.0 24.7 37.1#



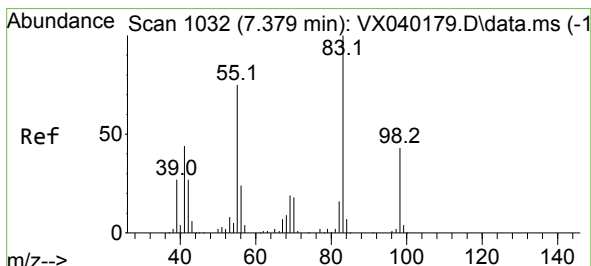
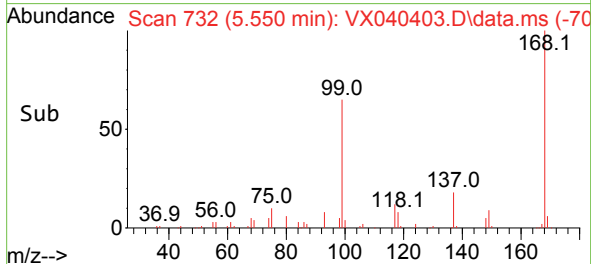
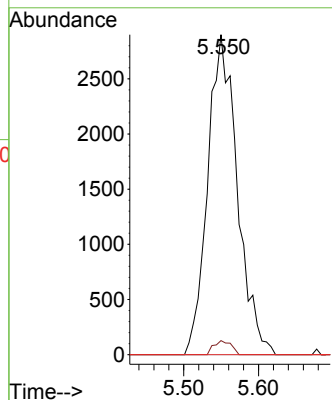


#38  
Carbon Tetrachloride  
Concen: 6.918 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

Instrument :  
MSVOA\_X  
ClientSampleId :

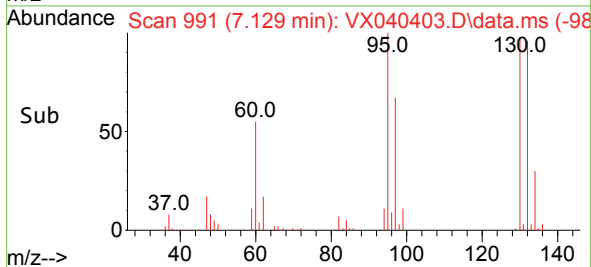
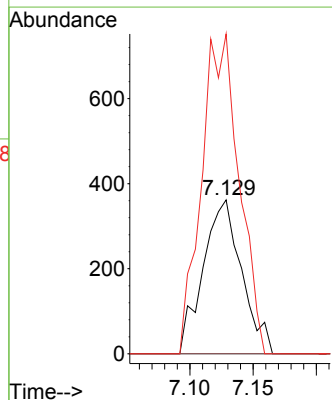
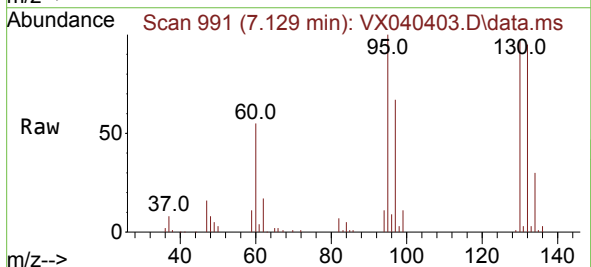


Tgt Ion:117 Resp: 7993  
Ion Ratio Lower Upper  
117 100  
119 4.4 78.2 117.2#  
121 0.0 24.4 36.6#

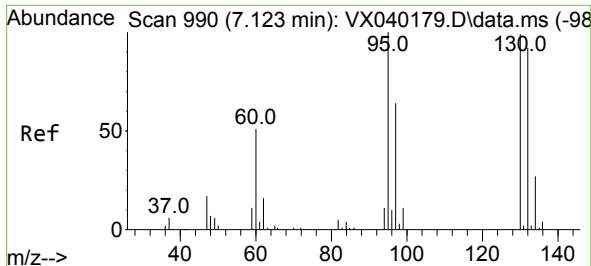


#39  
Methylcyclohexane  
Concen: 0.544 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.250 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

Tgt Ion: 83 Resp: 768  
Ion Ratio Lower Upper  
83 100  
55 0.0 64.6 97.0#  
98 207.7 36.7 55.1#

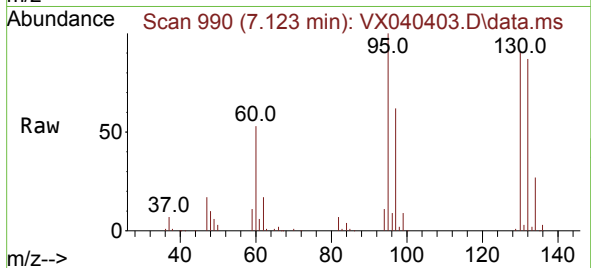




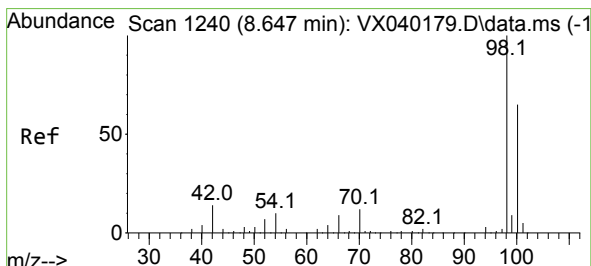
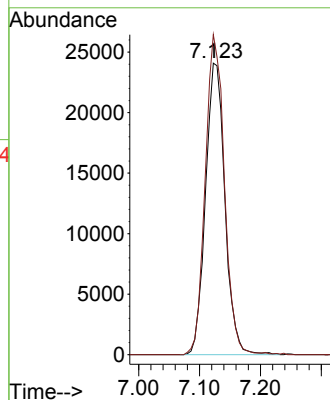
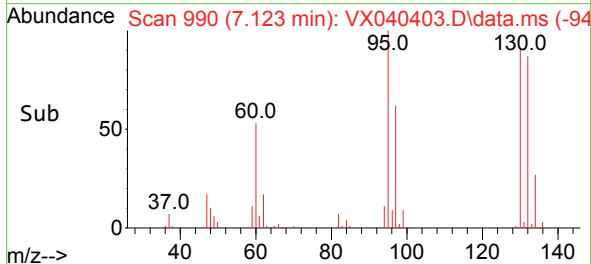


#44  
Trichloroethene  
Concen: 56.932 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.006 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

Instrument :  
MSVOA\_X  
ClientSampleId :

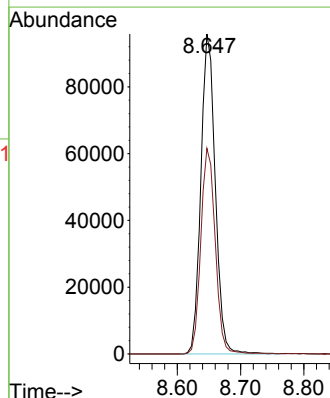
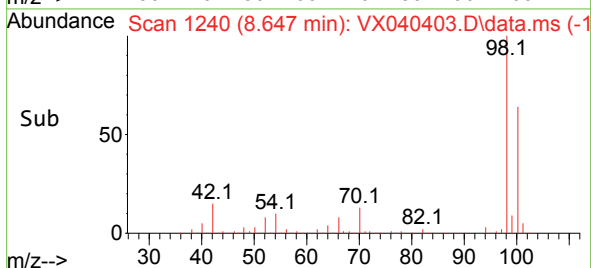
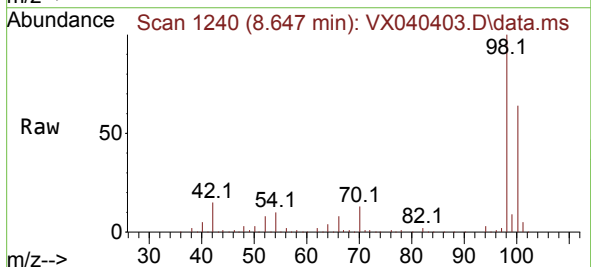


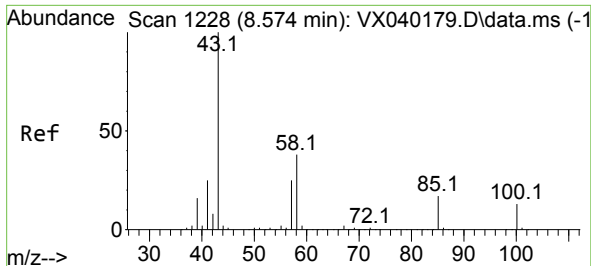
Tgt Ion:130 Resp: 53367  
Ion Ratio Lower Upper  
130 100  
95 109.8 0.0 204.4



#50  
Toluene-d8  
Concen: 46.927 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

Tgt Ion: 98 Resp: 152278  
Ion Ratio Lower Upper  
98 100  
100 64.4 53.1 79.7

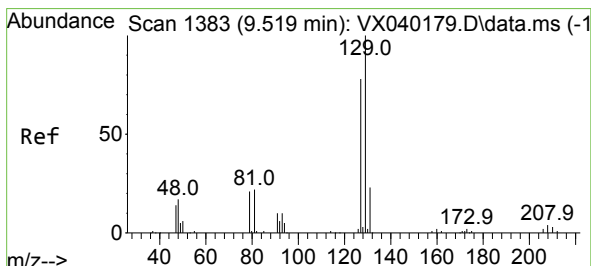
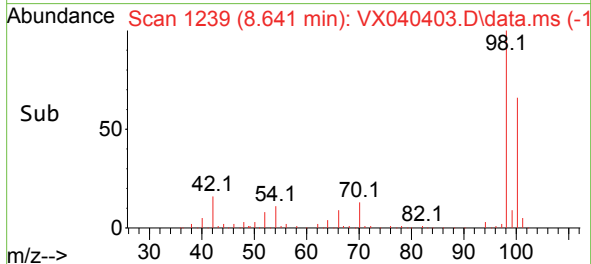
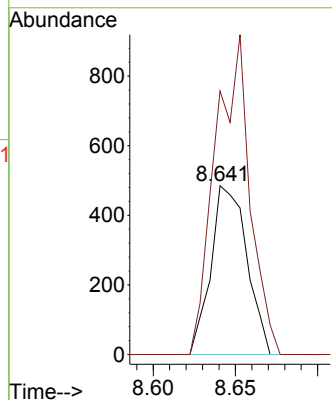
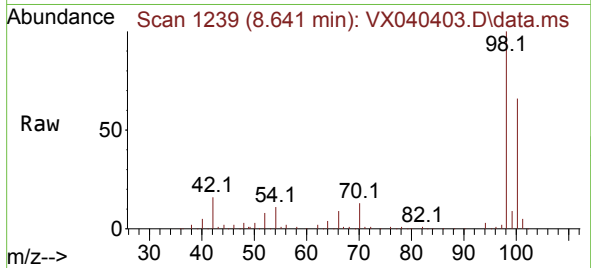




#51  
4-Methyl-2-Pentanone  
Concen: 0.511 ug/l  
RT: 8.641 min Scan# 11  
Delta R.T. 0.067 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

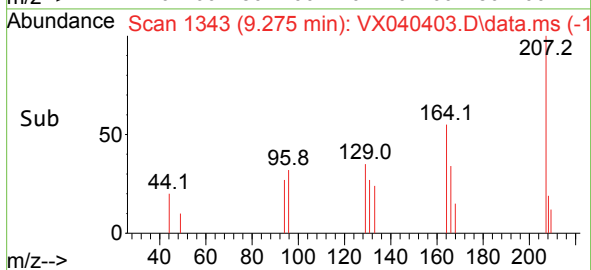
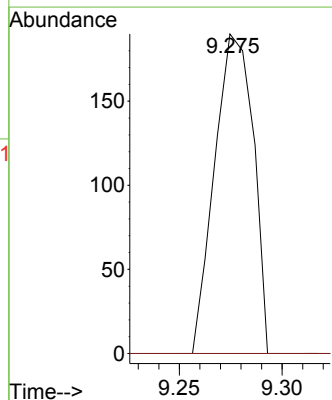
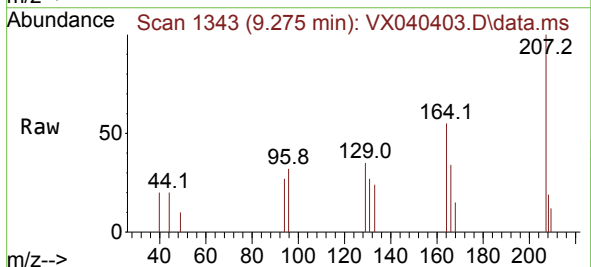
Instrument :  
MSVOA\_X  
ClientSampleId :

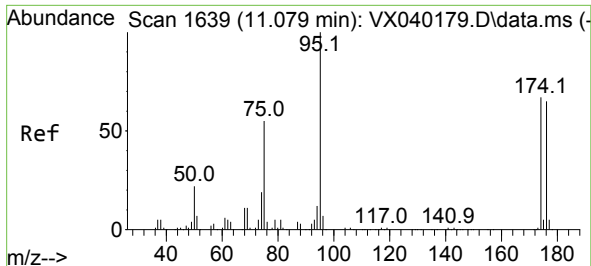
Tgt Ion: 43 Resp: 736  
Ion Ratio Lower Upper  
43 100  
58 183.2 30.4 45.6#



#60  
Dibromochloromethane  
Concen: 0.257 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.244 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

Tgt Ion: 129 Resp: 249  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#

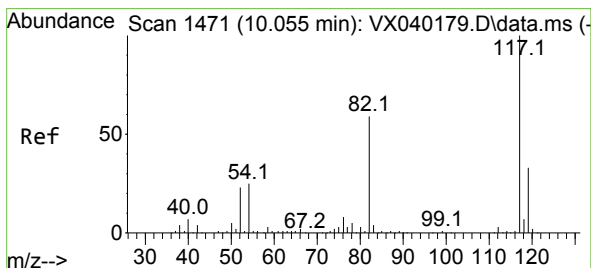
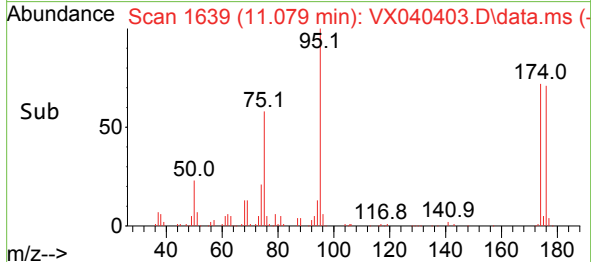
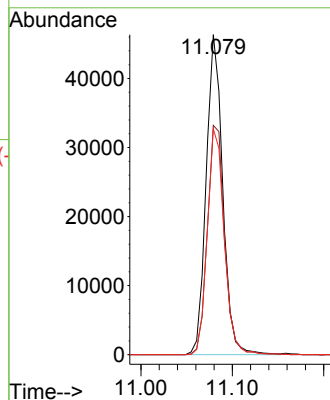
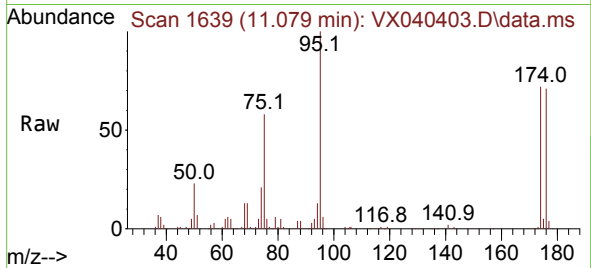




#62  
4-Bromofluorobenzene  
Concen: 43.916 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

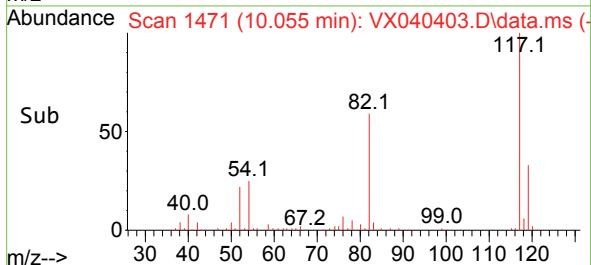
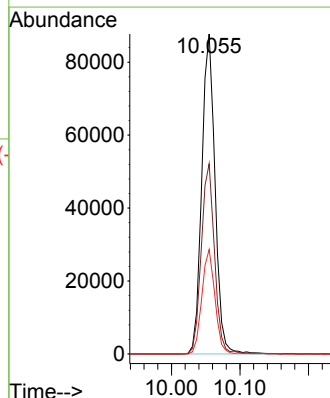
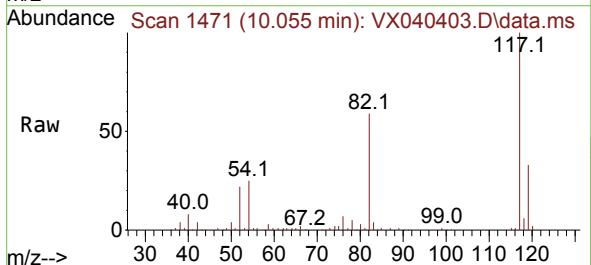
Instrument :  
MSVOA\_X  
ClientSampleId :

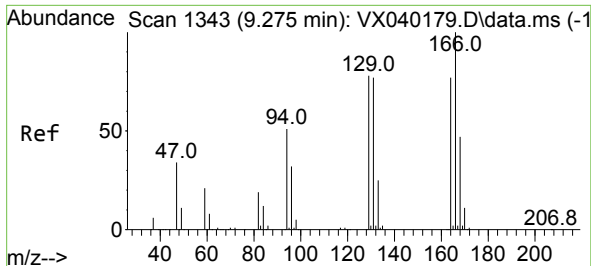
Tgt Ion: 95 Resp: 58121  
Ion Ratio Lower Upper  
95 100  
174 74.3 0.0 135.6  
176 72.2 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

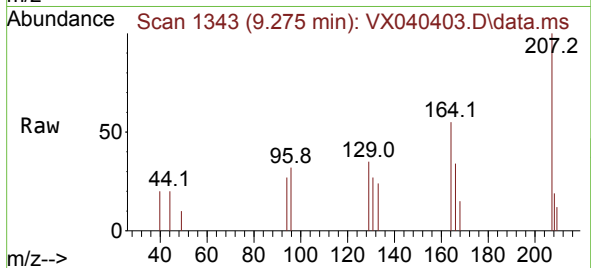
Tgt Ion: 117 Resp: 118401  
Ion Ratio Lower Upper  
117 100  
82 59.4 46.2 69.4  
119 32.7 25.5 38.3



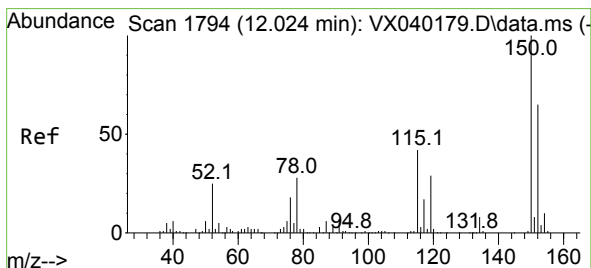
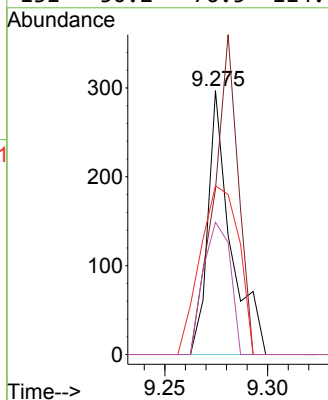
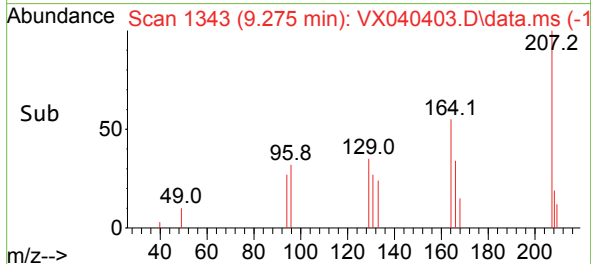


#64  
Tetrachloroethene  
Concen: 0.275 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49

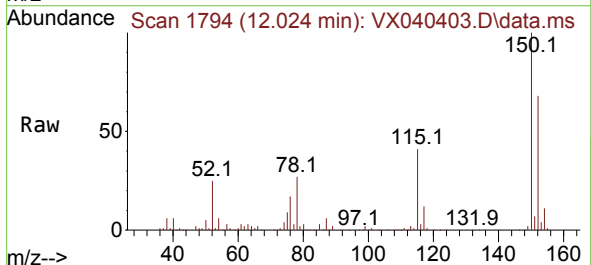
Instrument :  
MSVOA\_X  
ClientSampleId :



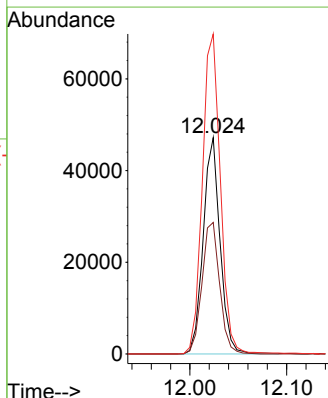
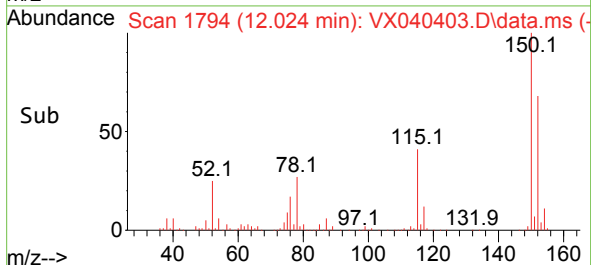
Tgt Ion:164 Resp: 228  
Ion Ratio Lower Upper  
164 100  
166 62.6 102.7 154.1#  
129 64.0 80.4 120.6#  
131 50.2 76.5 114.7#

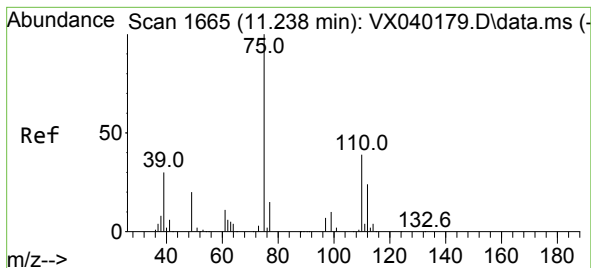


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX040403.D  
Acq: 22 Feb 2024 15:49



Tgt Ion:152 Resp: 57281  
Ion Ratio Lower Upper  
152 100  
115 63.7 43.3 129.9  
150 158.2 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 28.241 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX040403.D

Acq: 22 Feb 2024 15:49

Instrument :

MSVOA\_X

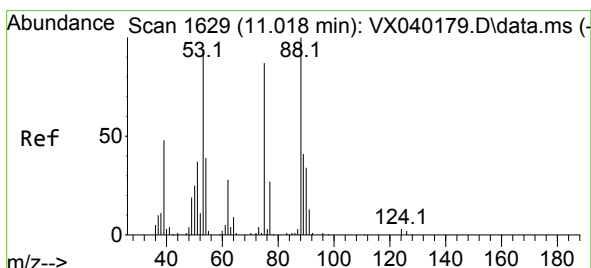
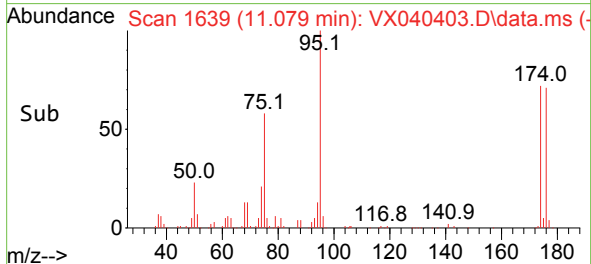
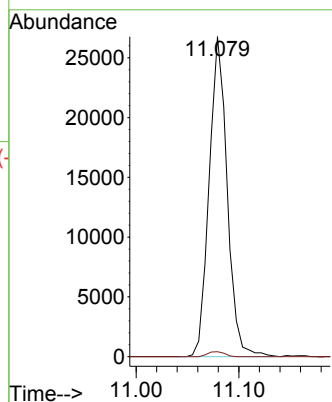
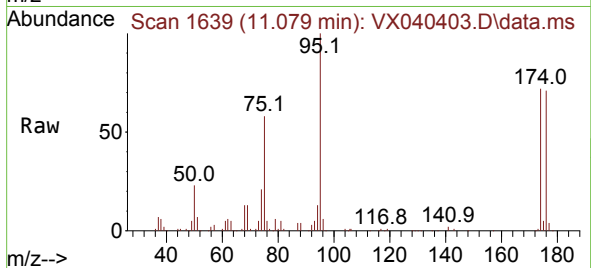
ClientSampleId :

Tgt Ion: 75 Resp: 32759

Ion Ratio Lower Upper

75 100

77 1.5 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 77.225 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX040403.D

Acq: 22 Feb 2024 15:49

Tgt Ion: 75 Resp: 32759

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

