

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX083123\  
 Data File : VX037433.D  
 Acq On : 31 Aug 2023 16:17  
 Operator : JC/MD  
 Sample : 04150-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

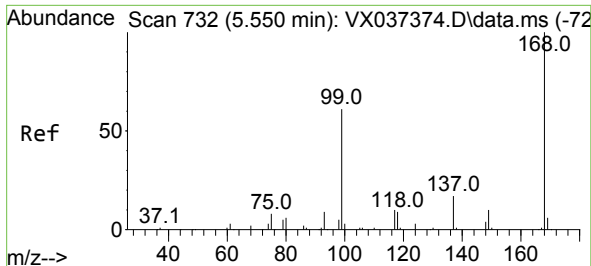
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RW9-MW01S-20230822

Quant Time: Sep 01 03:13:41 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   | 139247   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 228062   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 200840   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 86725    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 84874    | 42.279   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 84.560%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 69989    | 46.338   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 92.680%  |
| 50) Toluene-d8                | 8.647  | 98    | 267389   | 48.804   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 97.600%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 93892    | 43.608   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 87.220%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.306  | 50    | 290      | 0.205    | ug/l # | 43       |
| 5) Bromomethane               | 1.605  | 94    | 179      | 0.233    | ug/l # | 74       |
| 6) Chloroethane               | 1.666  | 64    | 230      | 0.254    | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.965  | 59    | 226      | 0.480    | ug/l # | 78       |
| 16) Acetone                   | 2.386  | 43    | 1081     | 1.376    | ug/l   | 95       |
| 20) Methylene Chloride        | 2.788  | 84    | 758      | 0.432    | ug/l # | 69       |
| 29) Tetrahydrofuran           | 5.013  | 42    | 24345    | 32.283   | ug/l # | 84       |
| 31) Cyclohexane               | 5.537  | 56    | 2676     | 1.186    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 11111    | 5.178    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 14738    | 6.323    | ug/l # | 15       |
| 41) Methacrylonitrile         | 5.007  | 41    | 14152    | 12.419   | ug/l # | 48       |
| 44) Trichloroethene           | 7.135  | 130   | 639      | 0.366    | ug/l   | 89       |
| 49) 1,4-Dioxane               | 7.702  | 88    | 19       | 0.416    | ug/l # | 12       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 46482    | 25.167   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 46482    | 70.292   | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 582      | 0.352    | ug/l   | 92       |
| 94) Hexachlorobutadiene       | 13.719 | 225   | 296      | 0.464    | ug/l   | 82       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180   | 523      | 0.319    | ug/l   | 84       |
| -----                         |        |       |          |          |        |          |

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

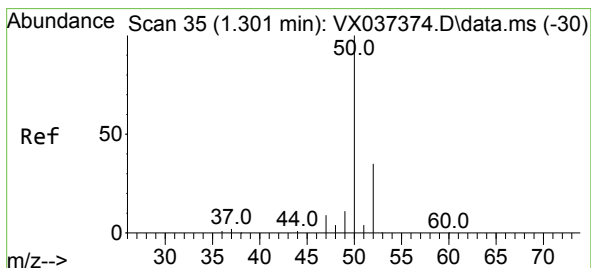
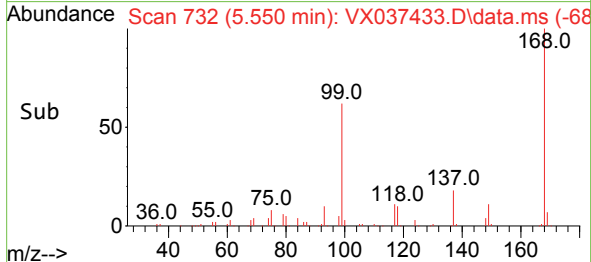
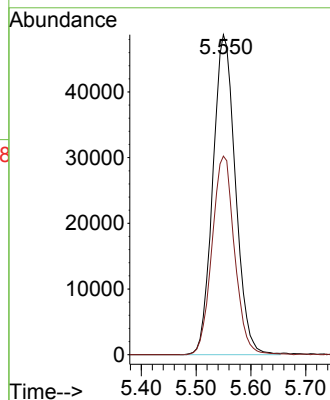
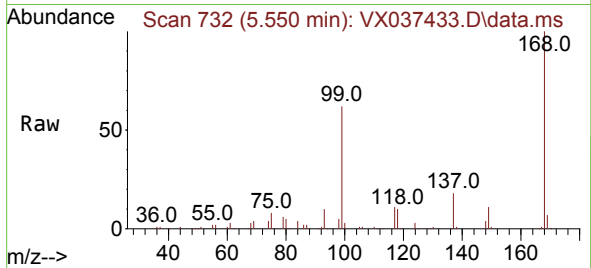




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

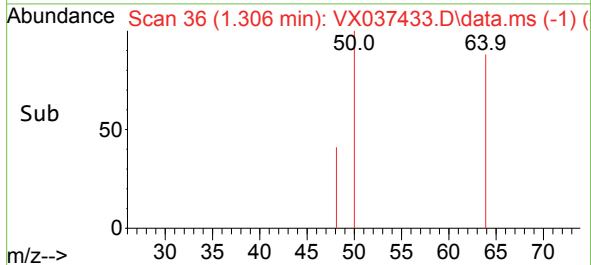
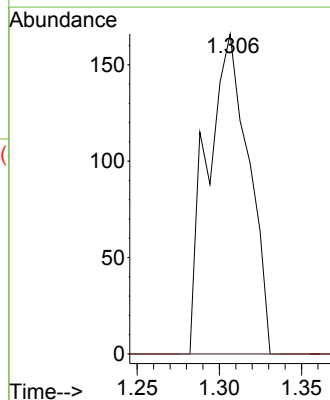
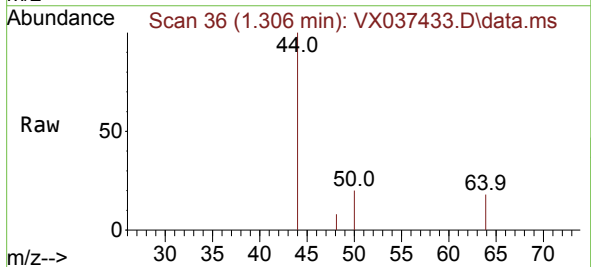
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW9-MW01S-20230822

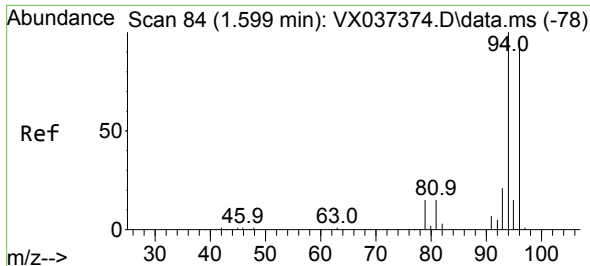
Tgt Ion:168 Resp: 139247  
Ion Ratio Lower Upper  
168 100  
99 62.1 56.6 85.0



#3  
Chloromethane  
Concen: 0.205 ug/l  
RT: 1.306 min Scan# 36  
Delta R.T. 0.006 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

Tgt Ion: 50 Resp: 290  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.5 38.3#

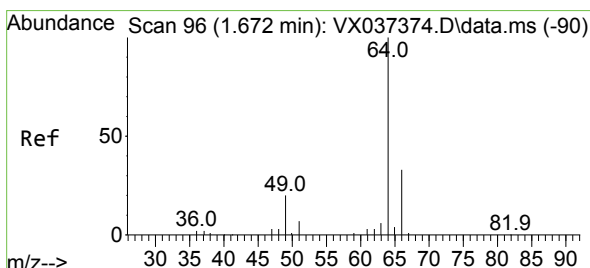
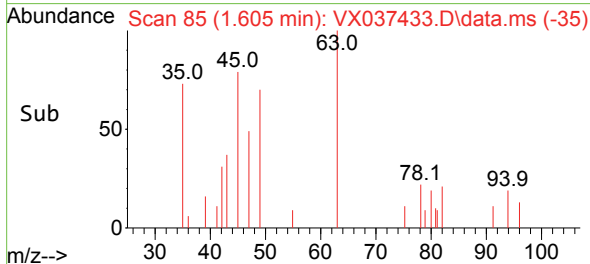
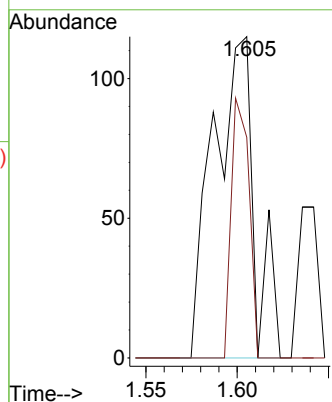
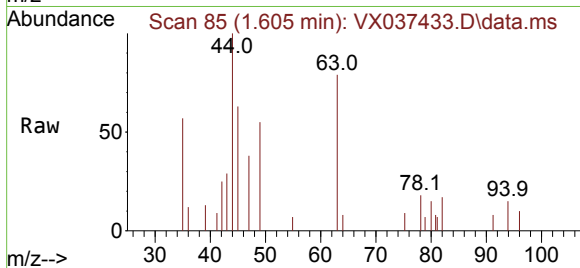




#5  
Bromomethane  
Concen: 0.233 ug/l  
RT: 1.605 min Scan# 84  
Delta R.T. 0.006 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

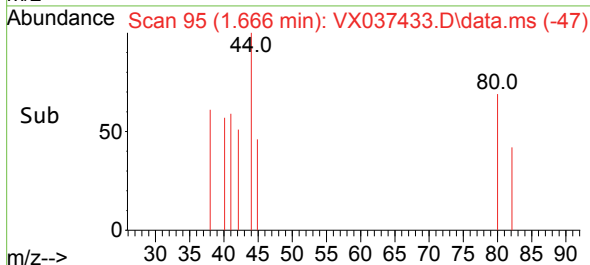
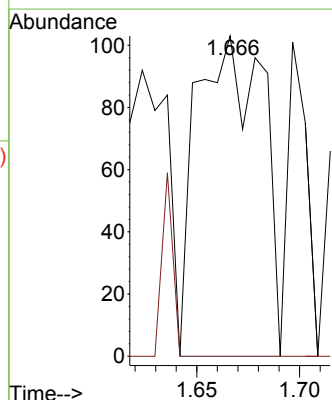
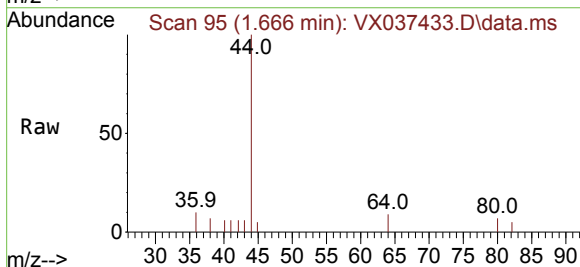
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW9-MW01S-20230822

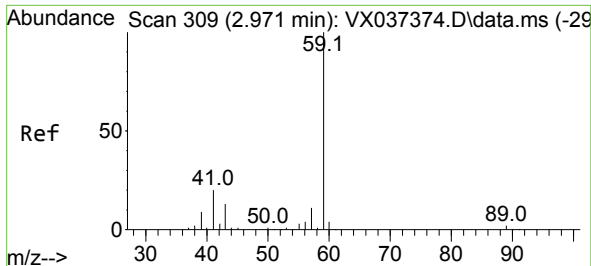
Tgt Ion: 94 Resp: 179  
Ion Ratio Lower Upper  
94 100  
96 68.7 74.6 111.8#



#6  
Chloroethane  
Concen: 0.254 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. -0.006 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

Tgt Ion: 64 Resp: 230  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#

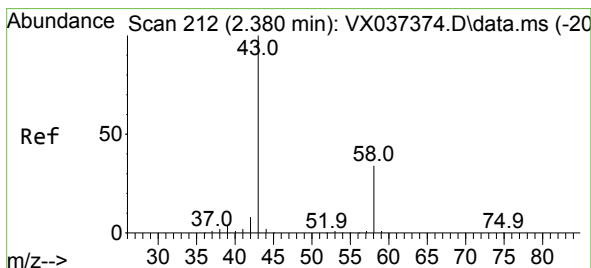
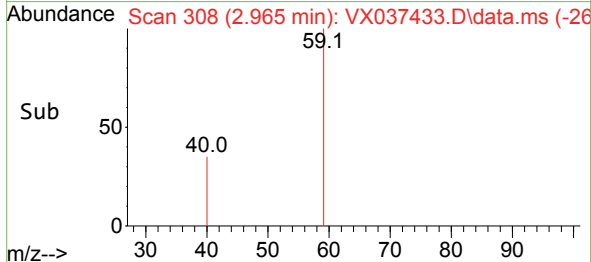
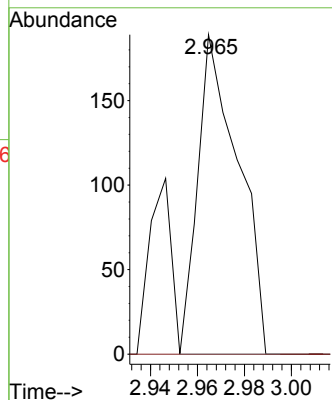
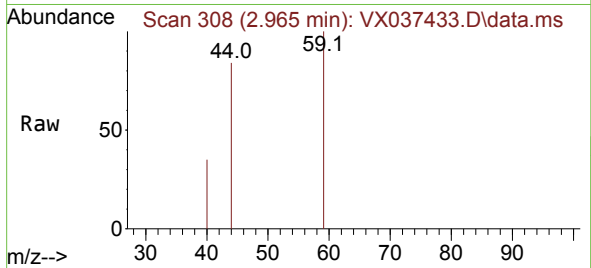




#11  
Tert butyl alcohol  
Concen: 0.480 ug/l  
RT: 2.965 min Scan# 309  
Delta R.T. -0.012 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

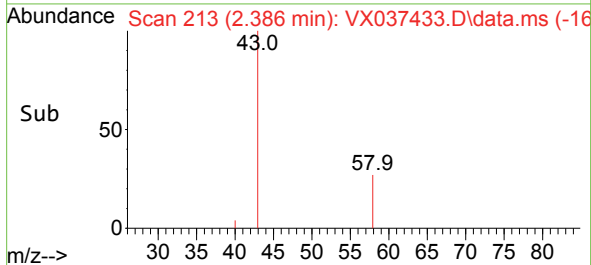
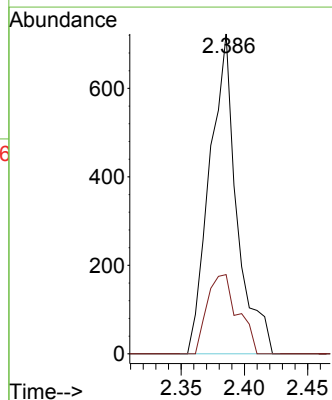
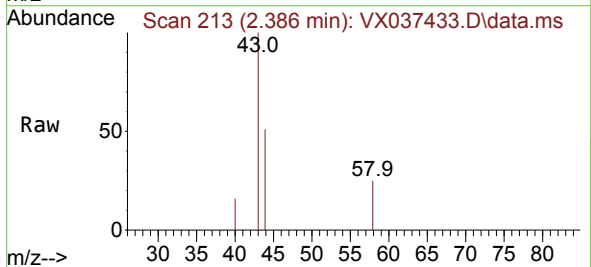
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW9-MW01S-20230822

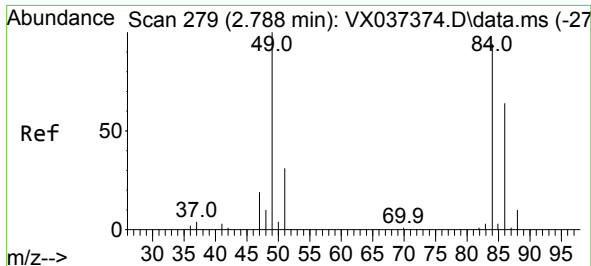
Tgt Ion: 59 Resp: 226  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#



#16  
Acetone  
Concen: 1.376 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

Tgt Ion: 43 Resp: 1081  
Ion Ratio Lower Upper  
43 100  
58 24.8 21.9 32.9

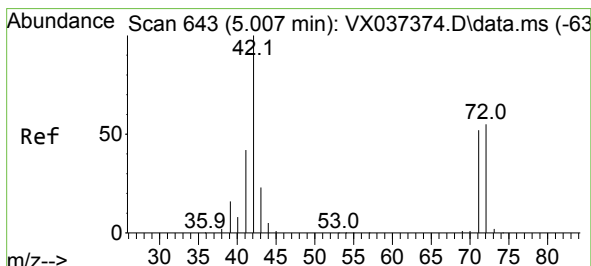
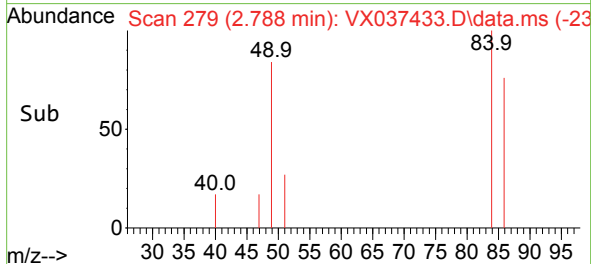
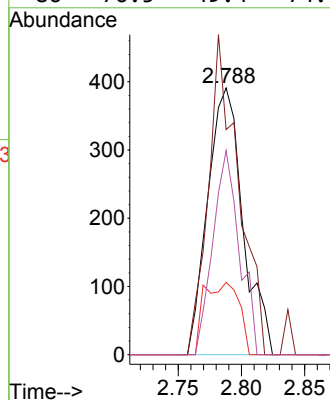
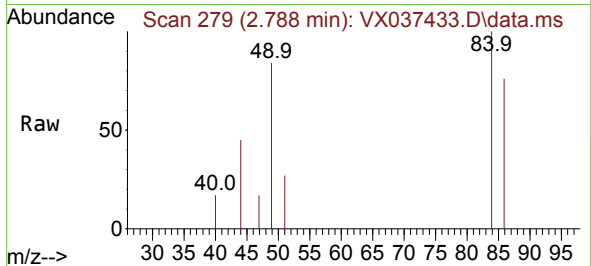




#20  
Methylene Chloride  
Concen: 0.432 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

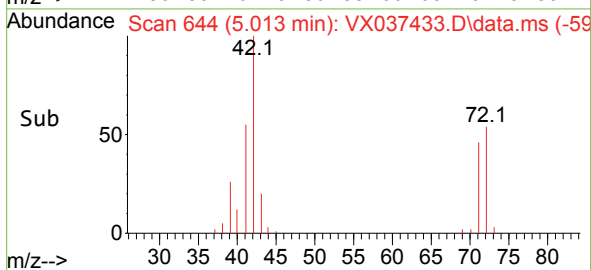
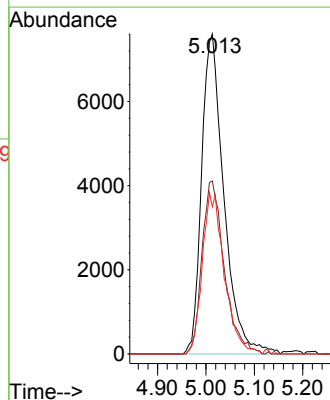
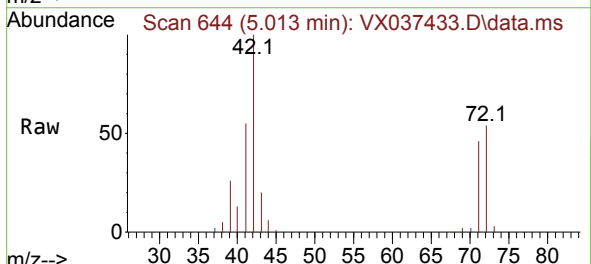
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW9-MW01S-20230822

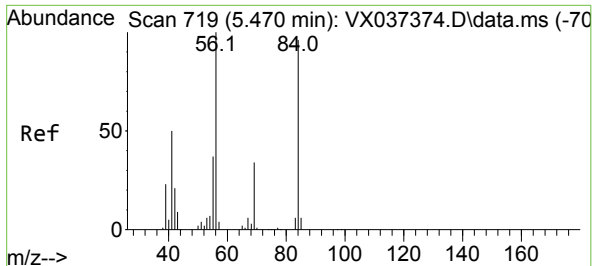
|             |              |
|-------------|--------------|
| Tgt Ion: 84 | Resp: 758    |
| Ion Ratio   | Lower Upper  |
| 84 100      |              |
| 49 84.4     | 103.6 155.4# |
| 51 27.1     | 33.8 50.6#   |
| 86 76.5     | 49.4 74.0#   |



#29  
Tetrahydrofuran  
Concen: 32.283 ug/l  
RT: 5.013 min Scan# 644  
Delta R.T. 0.006 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

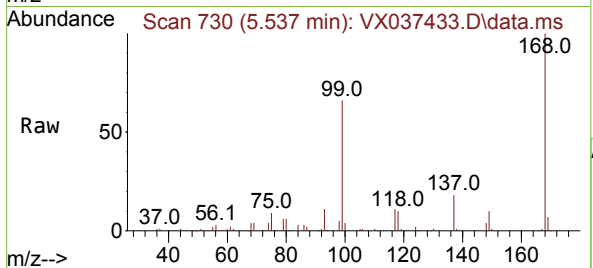
|             |             |
|-------------|-------------|
| Tgt Ion: 42 | Resp: 24345 |
| Ion Ratio   | Lower Upper |
| 42 100      |             |
| 72 53.9     | 34.2 51.4#  |
| 71 49.7     | 32.2 48.2#  |



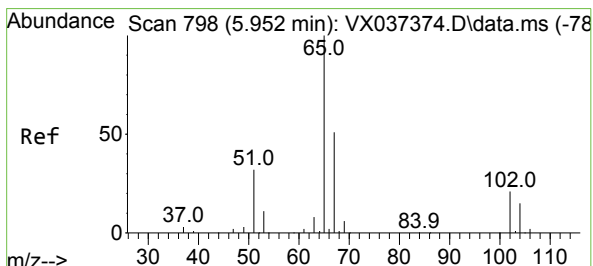
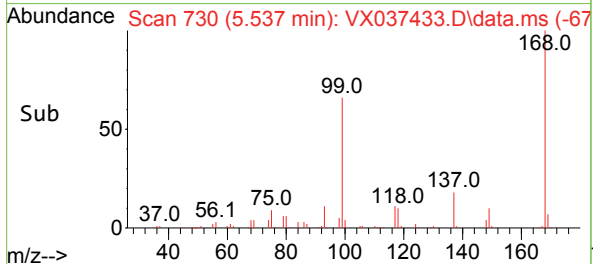
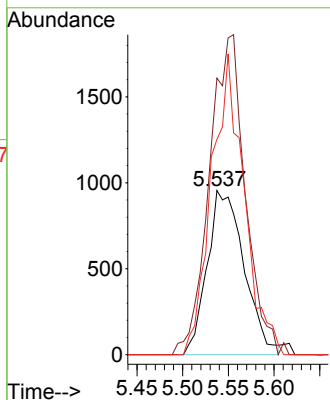


#31  
Cyclohexane  
Concen: 1.186 ug/l  
RT: 5.537 min Scan# 719  
Delta R.T. 0.067 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

Instrument :  
MSVOA\_X  
ClientSampleId :  
RW9-MW01S-20230822

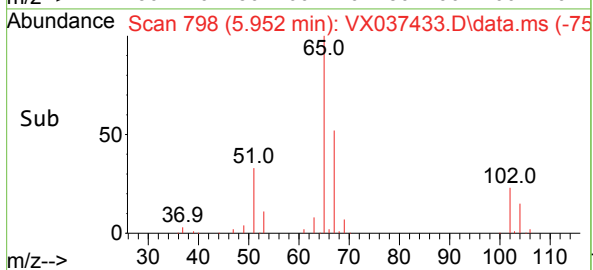
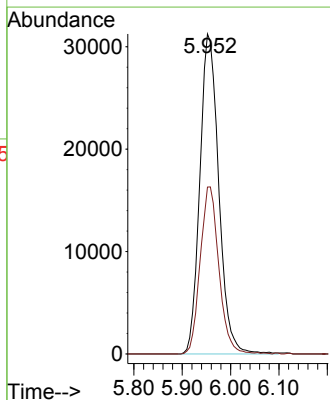
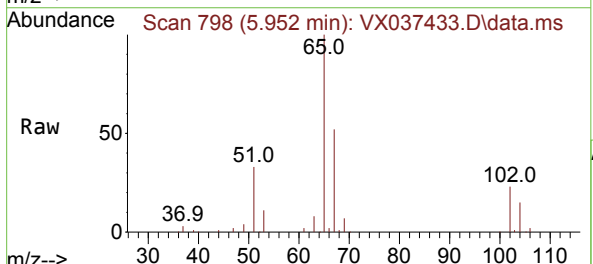


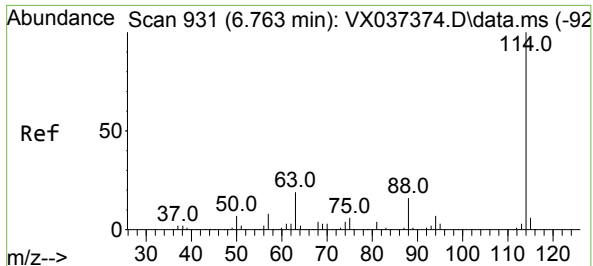
Tgt Ion: 56 Resp: 2676  
Ion Ratio Lower Upper  
56 100  
69 168.5 23.4 35.2#  
84 131.1 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 42.279 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.006 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

Tgt Ion: 65 Resp: 84874  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 100.2

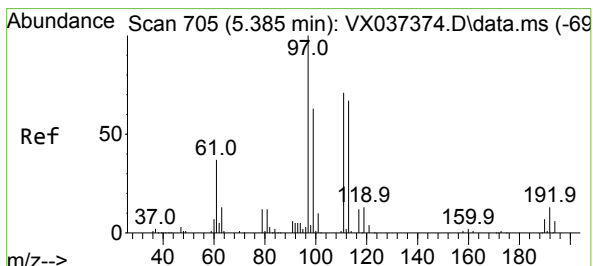
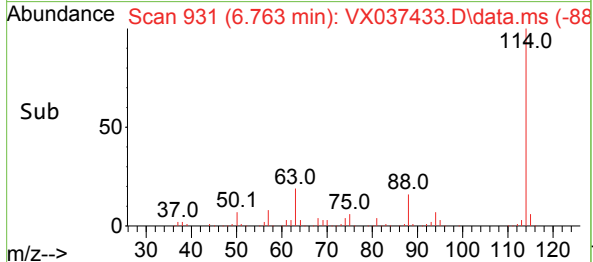
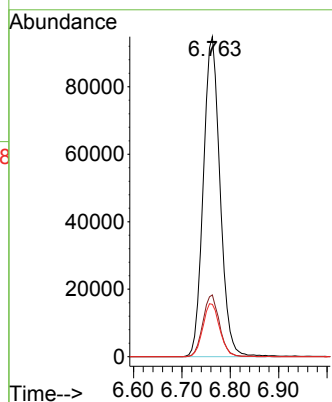
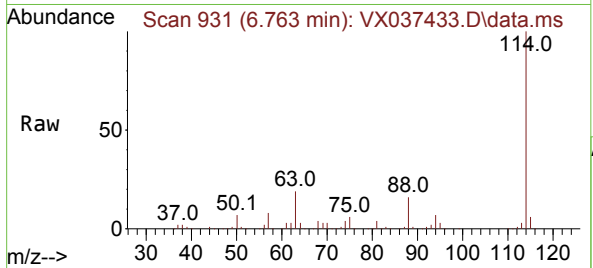




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

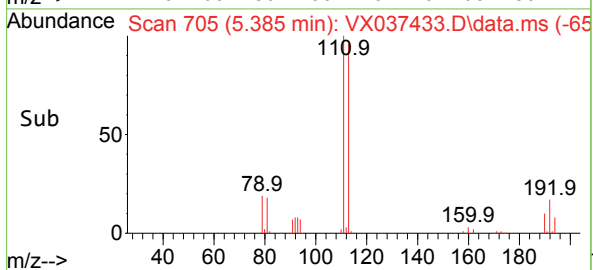
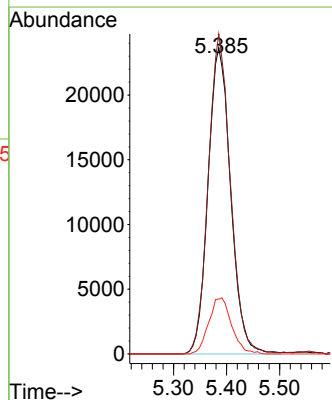
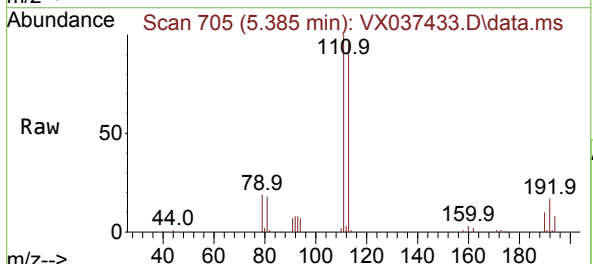
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW9-MW01S-20230822

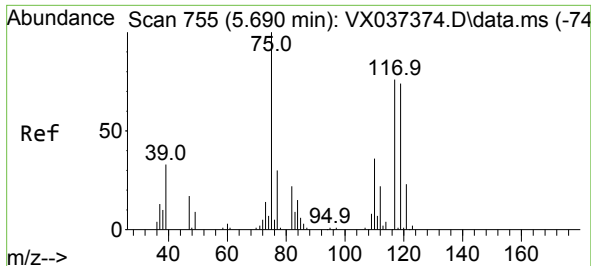
Tgt Ion:114 Resp: 228062  
Ion Ratio Lower Upper  
114 100  
63 19.3 0.0 45.0  
88 16.3 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 46.338 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

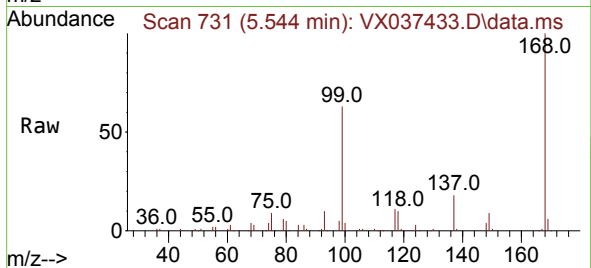
Tgt Ion:113 Resp: 69989  
Ion Ratio Lower Upper  
113 100  
111 102.3 82.9 124.3  
192 18.6 13.3 19.9



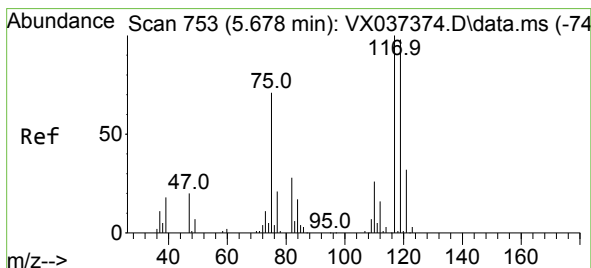
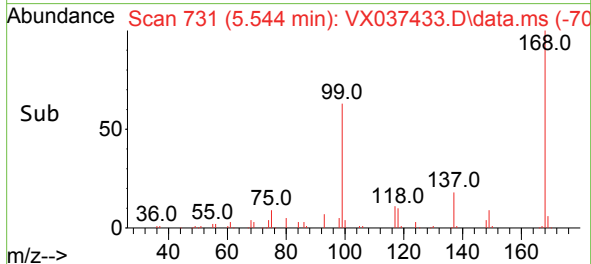
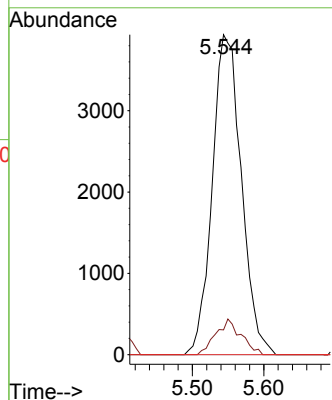


#36  
1,1-Dichloropropene  
Concen: 5.178 ug/l  
RT: 5.544 min Scan# 711  
Delta R.T. -0.153 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

Instrument :  
MSVOA\_X  
ClientSampleId :  
RW9-MW01S-20230822

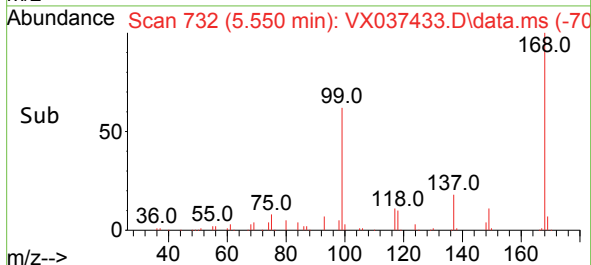
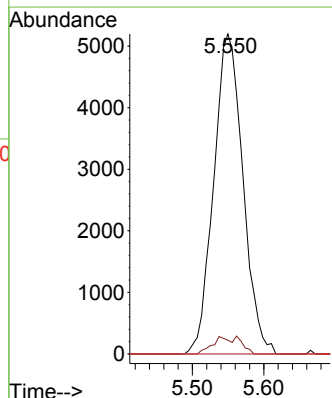
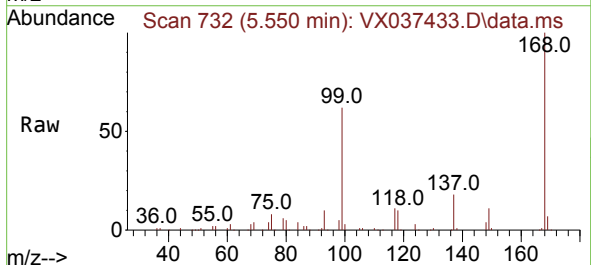


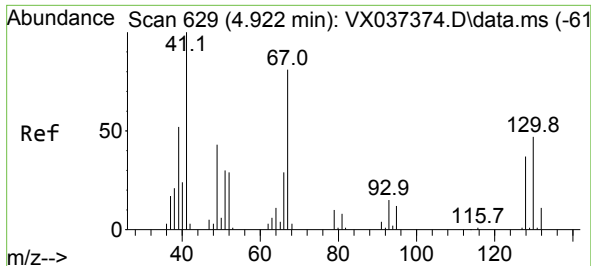
Tgt Ion: 75 Resp: 11111  
Ion Ratio Lower Upper  
75 100  
110 9.6 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.323 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.122 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

Tgt Ion: 117 Resp: 14738  
Ion Ratio Lower Upper  
117 100  
119 4.3 78.2 117.2#  
121 0.0 24.4 36.6#

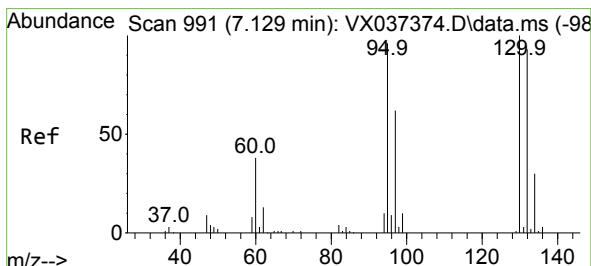
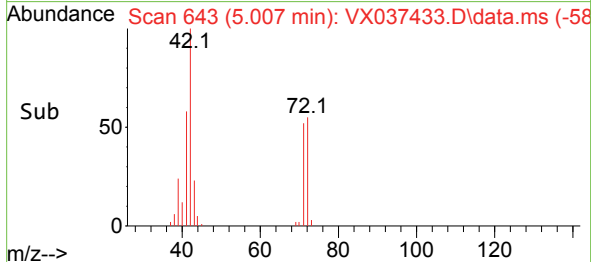
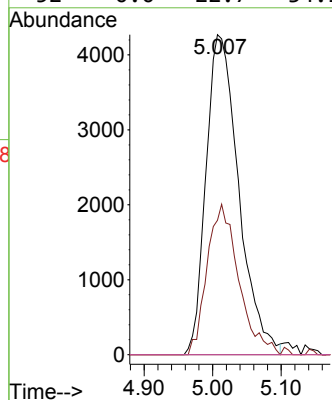
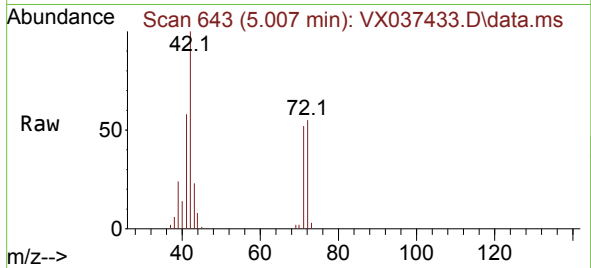




#41  
Methacrylonitrile  
Concen: 12.419 ug/l  
RT: 5.007 min Scan# 643  
Delta R.T. 0.085 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

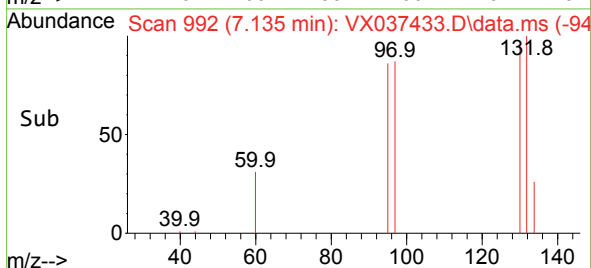
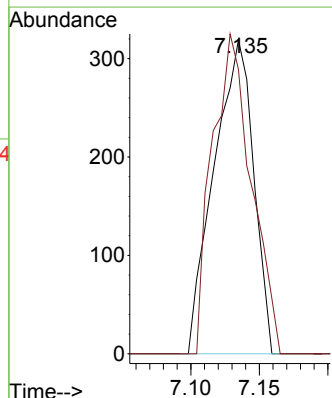
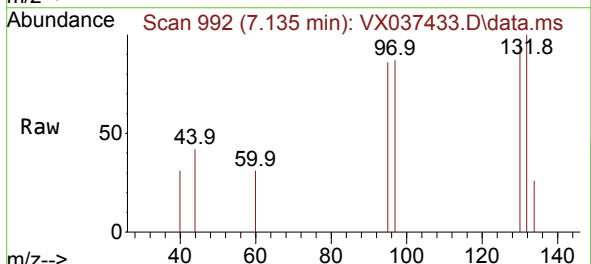
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW9-MW01S-20230822

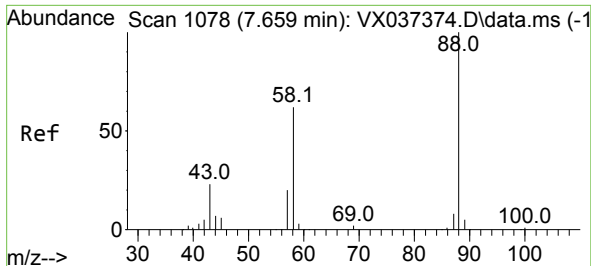
Tgt Ion: 41 Resp: 14152  
Ion Ratio Lower Upper  
41 100  
39 45.3 45.2 67.8  
67 0.0 52.6 78.8#  
52 0.0 22.7 34.1#



#44  
Trichloroethene  
Concen: 0.366 ug/l  
RT: 7.135 min Scan# 992  
Delta R.T. 0.012 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

Tgt Ion:130 Resp: 639  
Ion Ratio Lower Upper  
130 100  
95 90.6 0.0 204.4

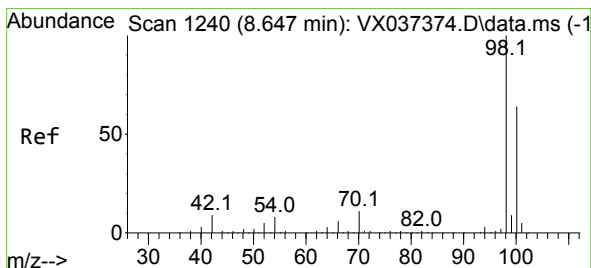
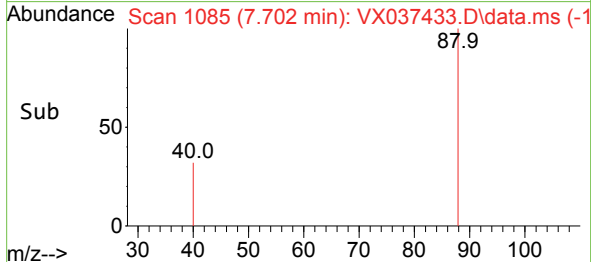
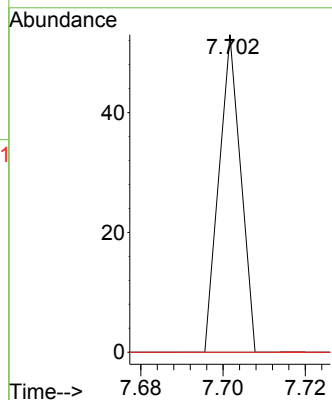
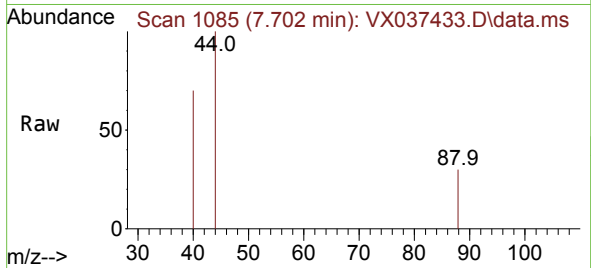




#49  
1,4-Dioxane  
Concen: 0.416 ug/l  
RT: 7.702 min Scan# 1078  
Delta R.T. 0.043 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

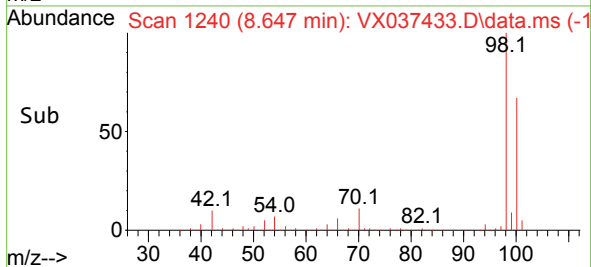
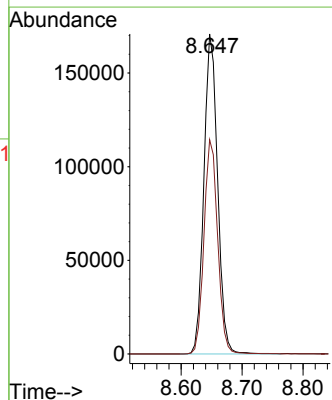
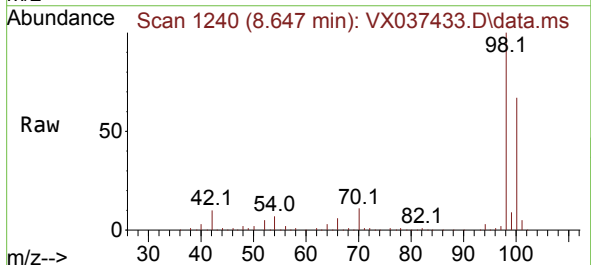
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW9-MW01S-20230822

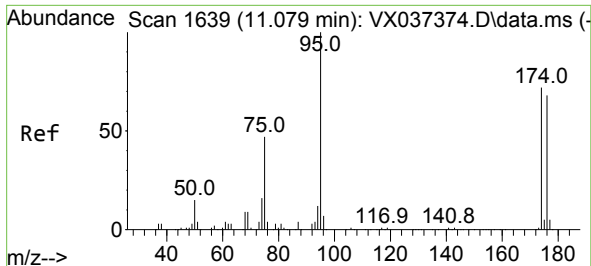
Tgt Ion: 88 Resp: 19  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 0.0 60.1 90.1#



#50  
Toluene-d8  
Concen: 48.804 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

Tgt Ion: 98 Resp: 267389  
Ion Ratio Lower Upper  
98 100  
100 67.1 53.1 79.7

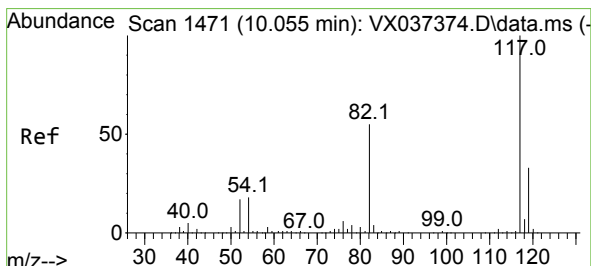
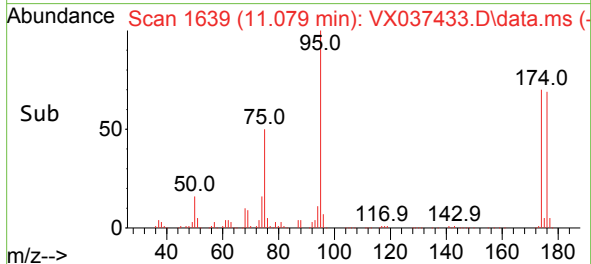
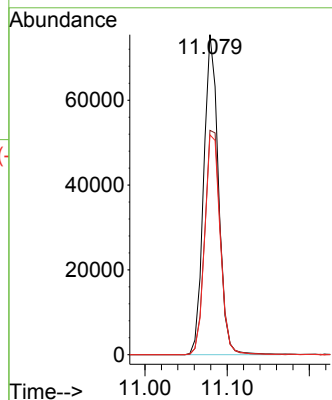
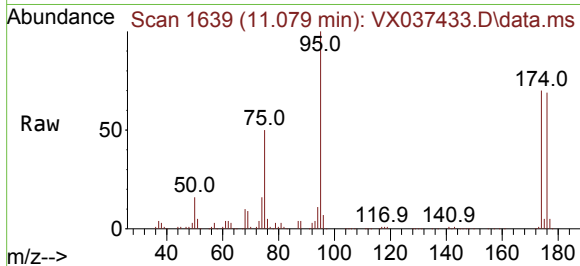




#62  
4-Bromofluorobenzene  
Concen: 43.608 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

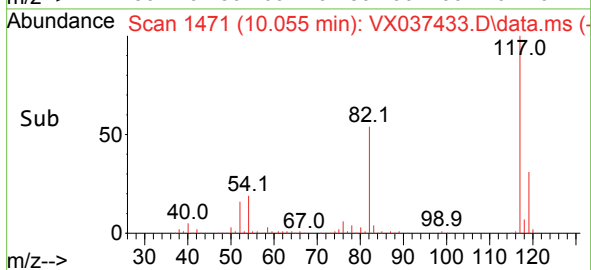
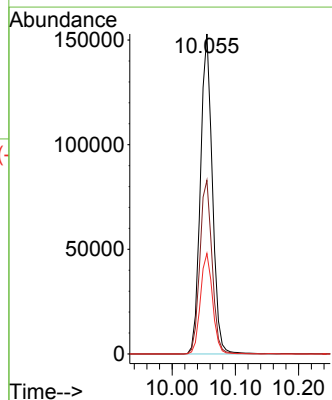
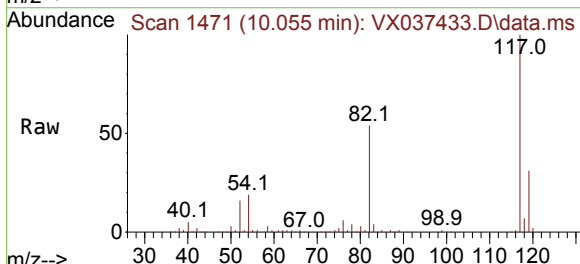
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW9-MW01S-20230822

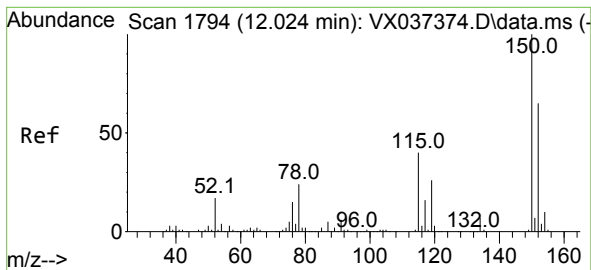
Tgt Ion: 95 Resp: 93892  
Ion Ratio Lower Upper  
95 100  
174 74.5 0.0 135.6  
176 72.2 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

Tgt Ion: 117 Resp: 200840  
Ion Ratio Lower Upper  
117 100  
82 54.2 46.2 69.4  
119 31.4 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX037433.D

Acq: 31 Aug 2023 16:17

Instrument :

MSVOA\_X

ClientSampleId :

RW9-MW01S-20230822

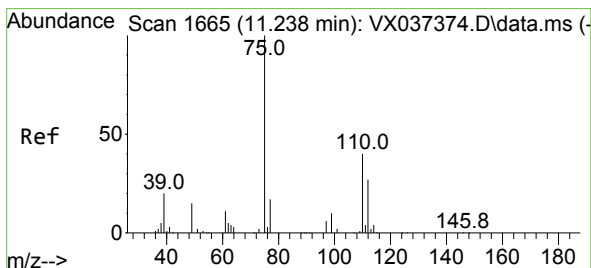
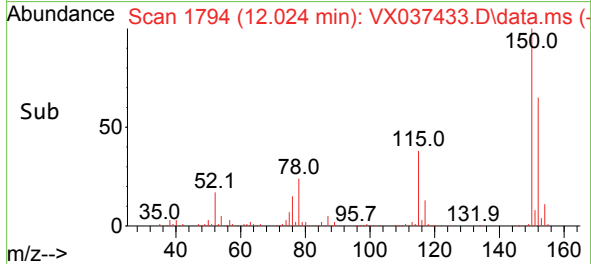
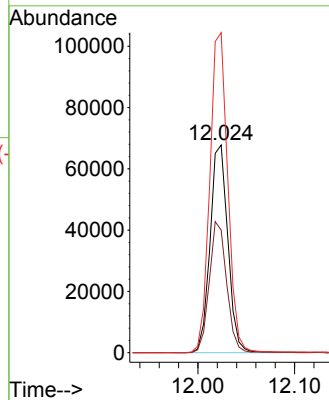
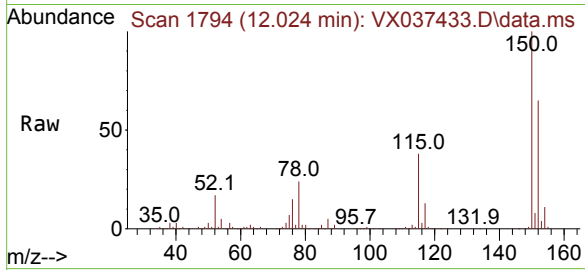
Tgt Ion:152 Resp: 86725

Ion Ratio Lower Upper

152 100

115 61.7 43.3 129.9

150 156.4 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 25.167 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX037433.D

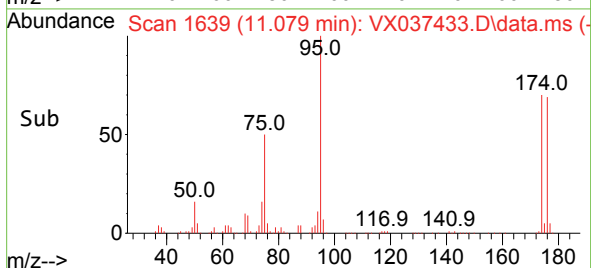
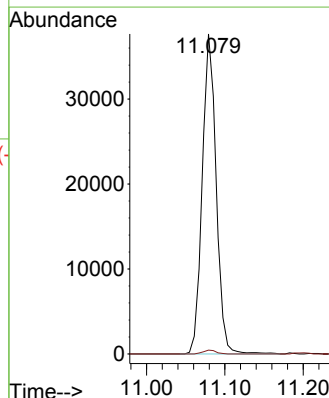
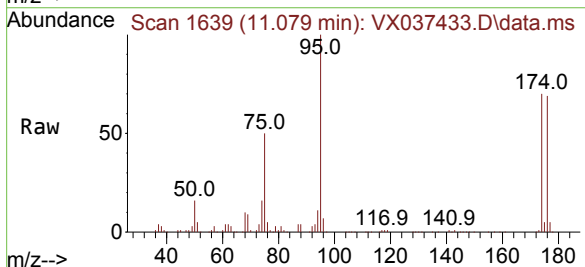
Acq: 31 Aug 2023 16:17

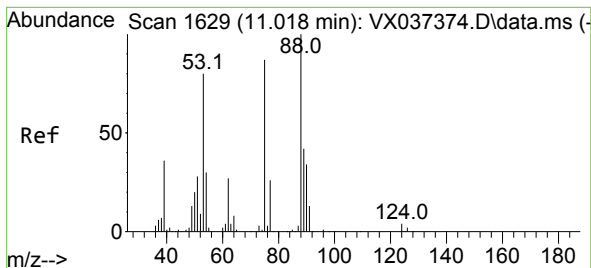
Tgt Ion: 75 Resp: 46482

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#

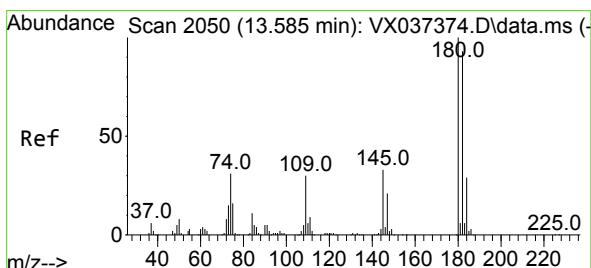
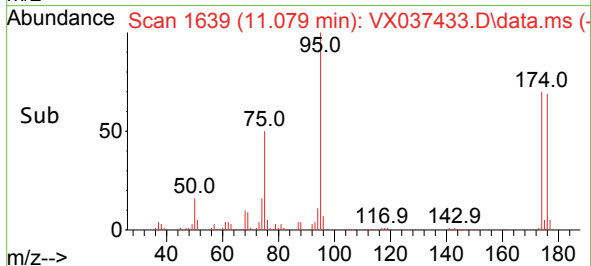
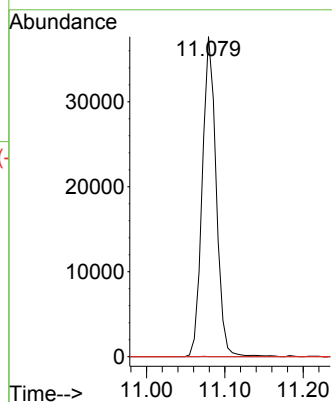
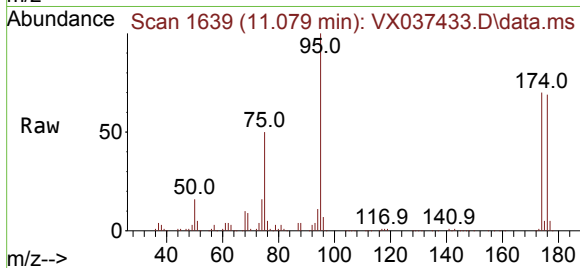




#81  
trans-1,4-Dichloro-2-butene  
Concen: 70.292 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

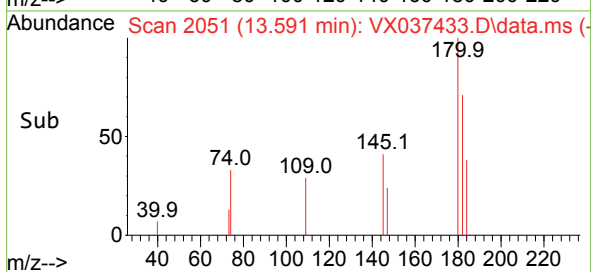
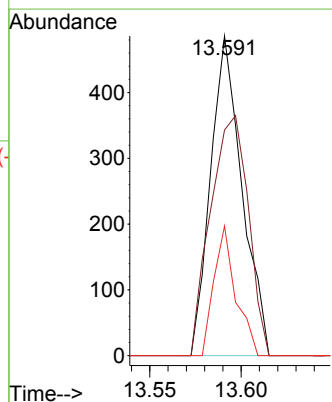
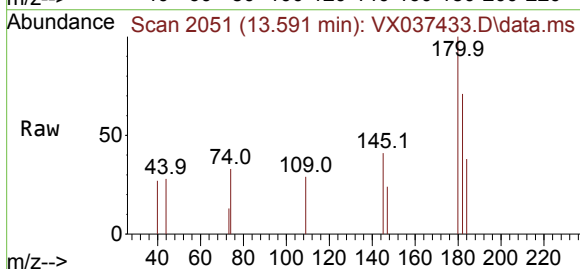
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW9-MW01S-20230822

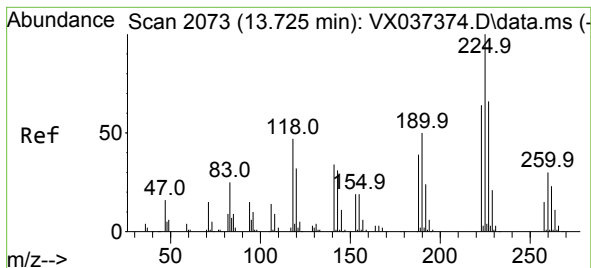
Tgt Ion: 75 Resp: 46482  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#93  
1,2,4-Trichlorobenzene  
Concen: 0.352 ug/l  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.006 min  
Lab File: VX037433.D  
Acq: 31 Aug 2023 16:17

Tgt Ion: 180 Resp: 582  
Ion Ratio Lower Upper  
180 100  
182 90.2 48.3 144.8  
145 28.2 18.0 54.0





#94

Hexachlorobutadiene

Concen: 0.464 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.006 min

Lab File: VX037433.D

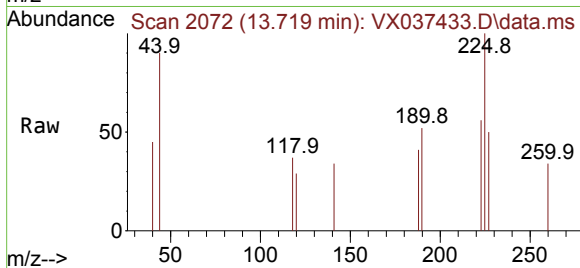
Acq: 31 Aug 2023 16:17

Instrument :

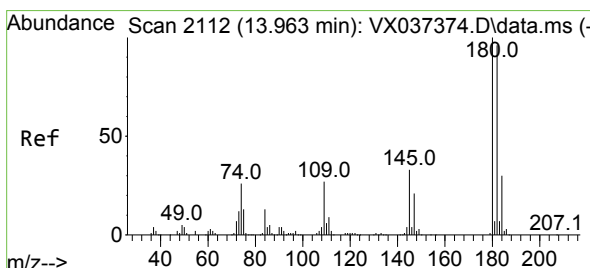
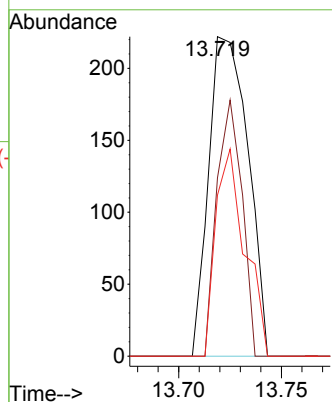
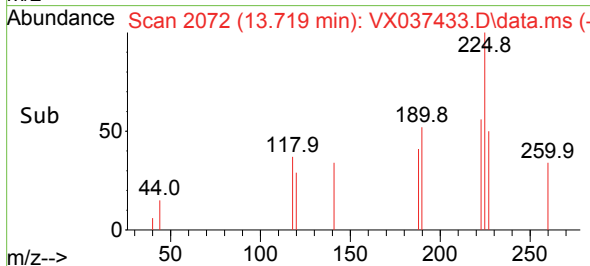
MSVOA\_X

ClientSampleId :

RW9-MW01S-20230822



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 296  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 51.0  | 31.1  | 93.2 |
| 227       | 48.3  | 32.5  | 97.5 |



#96

1,2,3-Trichlorobenzene

Concen: 0.319 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX037433.D

Acq: 31 Aug 2023 16:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 523   |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 80.7  | 46.9  | 140.6 |
| 145       | 22.0  | 17.8  | 53.5  |

