

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081823\  
 Data File : VX037109.D  
 Acq On : 19 Aug 2023 05:13  
 Operator : JC/MD  
 Sample : 04024-23  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RW4-20230815

Quant Time: Aug 21 01:41:26 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

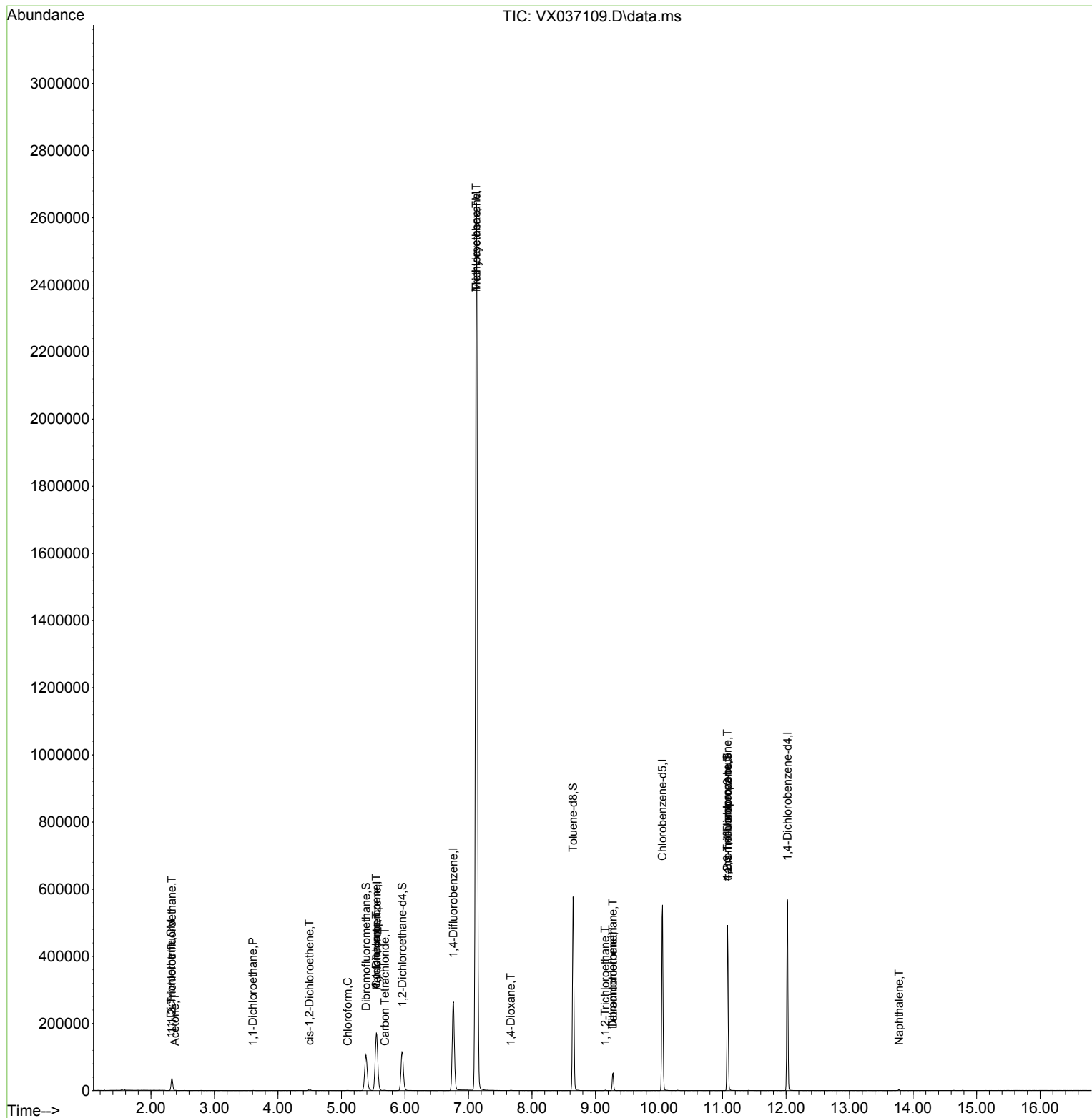
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168            | 158992   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114            | 277854   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117            | 255664   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152            | 119212   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65             | 119286   | 52.041     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 78 - 117 | Recovery | = 104.080% |        |          |
| 35) Dibromofluoromethane      | 5.385  | 113            | 93266    | 50.684     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 101.360% |        |          |
| 50) Toluene-d8                | 8.647  | 98             | 341455   | 51.155     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 92 - 112 | Recovery | = 102.300% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95             | 130561   | 49.772     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | = 99.540%  |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            |        | Qvalue   |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101            | 13086    | 7.786      | ug/l   | 96       |
| 12) 1,1-Dichloroethene        | 2.319  | 96             | 1613     | 0.986      | ug/l   | 81       |
| 16) Acetone                   | 2.380  | 43             | 754      | 0.841      | ug/l   | 99       |
| 24) 1,1-Dichloroethane        | 3.605  | 63             | 865      | 0.265      | ug/l # | 83       |
| 27) cis-1,2-Dichloroethene    | 4.495  | 96             | 2389     | 1.089      | ug/l   | 85       |
| 30) Chloroform                | 5.099  | 83             | 946      | 0.259      | ug/l   | 88       |
| 31) Cyclohexane               | 5.550  | 56             | 3371     | 1.308      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550  | 75             | 12387    | 4.738      | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 5.684  | 117            | 968      | 0.341      | ug/l # | 81       |
| 39) Methylcyclohexane         | 7.123  | 83             | 12187    | 4.437      | ug/l # | 1        |
| 44) Trichloroethene           | 7.123  | 130            | 1036122  | 487.333    | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.665  | 88             | 743      | 13.342     | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97             | 484      | 0.240      | ug/l   | 91       |
| 60) Dibromochloromethane      | 9.275  | 129            | 9949     | 4.632      | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275  | 164            | 9724     | 5.214      | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75             | 67278    | 26.500     | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75             | 67278    | 74.015     | ug/l # | 5        |
| 95) Naphthalene               | 13.780 | 128            | 2810     | 0.283      | ug/l # | 94       |
| -----                         |        |                |          |            |        |          |

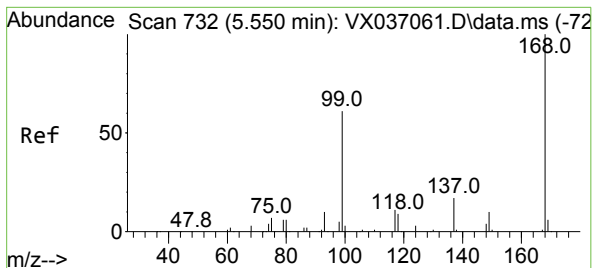
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Aug 18 09:30:38 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.556 min Scan# 71

Delta R.T. 0.006 min

Lab File: VX037109.D

Acq: 19 Aug 2023 05:13

Instrument :

MSVOA\_X

ClientSampleId :

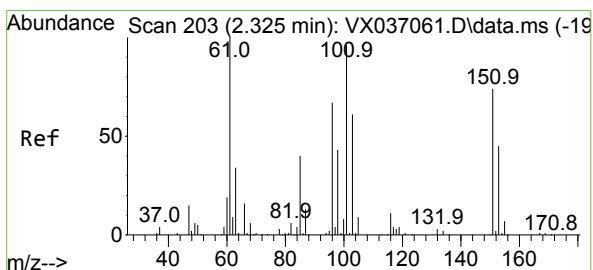
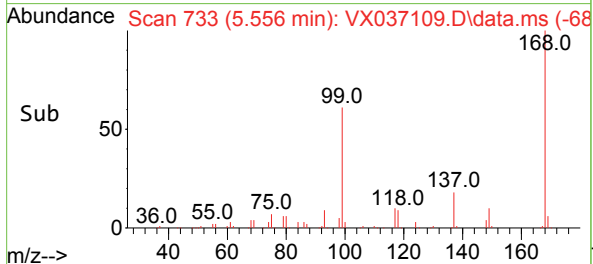
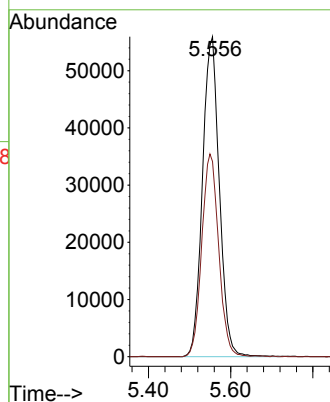
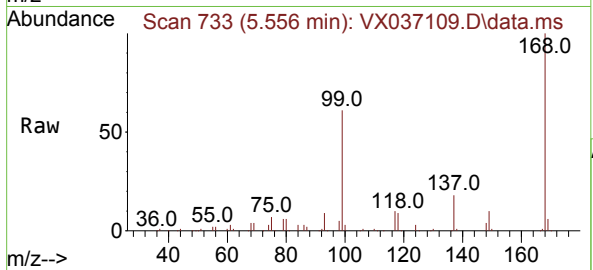
RW4-20230815

Tgt Ion:168 Resp: 158992

Ion Ratio Lower Upper

168 100

99 61.0 56.6 85.0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 7.786 ug/l

RT: 2.331 min Scan# 204

Delta R.T. 0.006 min

Lab File: VX037109.D

Acq: 19 Aug 2023 05:13

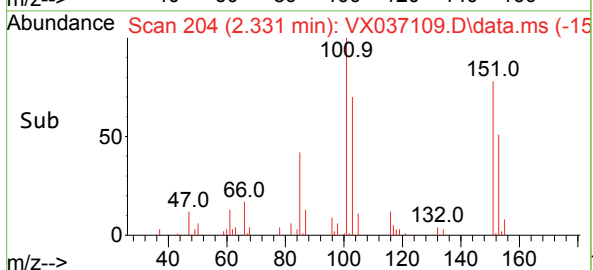
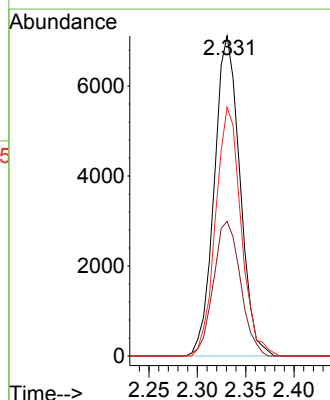
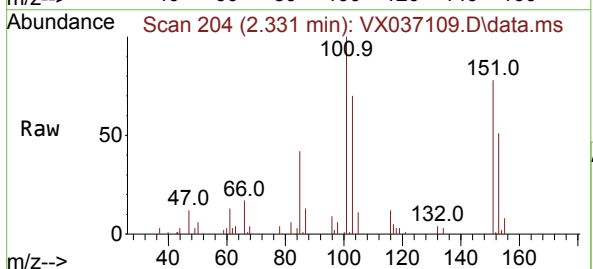
Tgt Ion:101 Resp: 13086

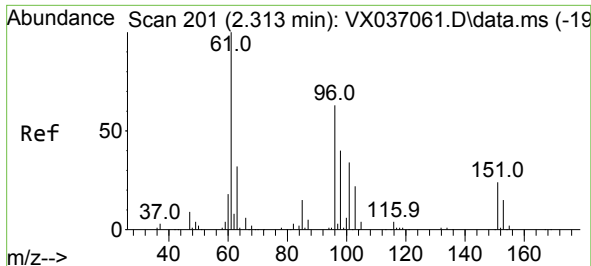
Ion Ratio Lower Upper

101 100

85 44.4 37.0 55.6

151 77.4 58.6 87.8





#12

1,1-Dichloroethene

Concen: 0.986 ug/l

RT: 2.319 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX037109.D

Acq: 19 Aug 2023 05:13

Instrument :

MSVOA\_X

ClientSampleId :

RW4-20230815

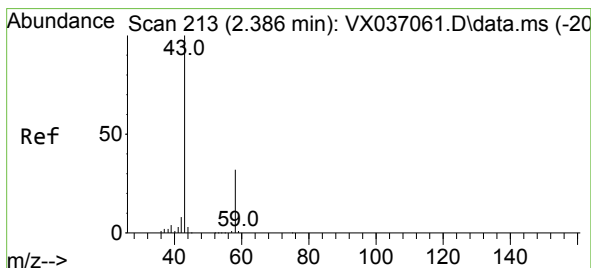
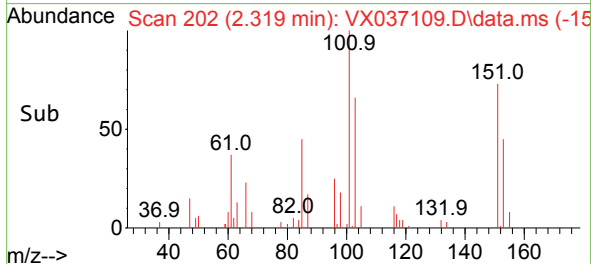
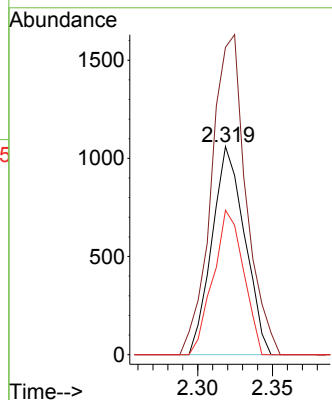
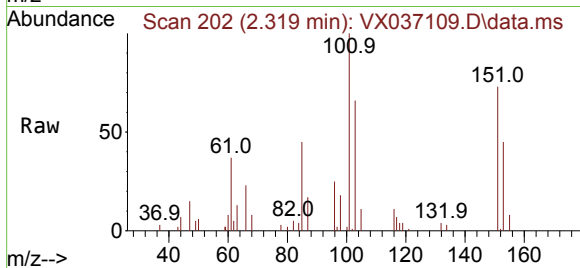
Tgt Ion: 96 Resp: 1613

Ion Ratio Lower Upper

96 100

61 147.7 144.6 216.8

98 69.4 50.4 75.6



#16

Acetone

Concen: 0.841 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX037109.D

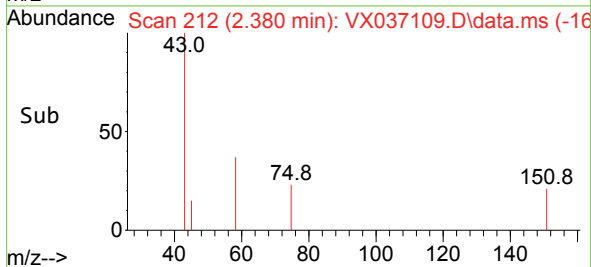
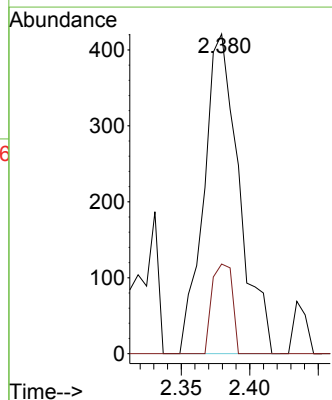
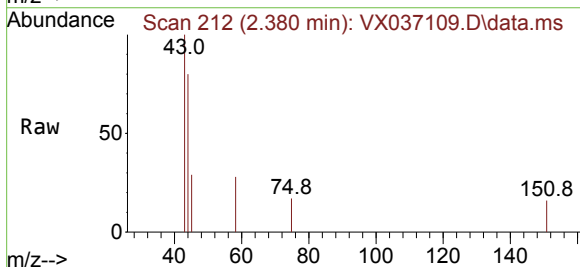
Acq: 19 Aug 2023 05:13

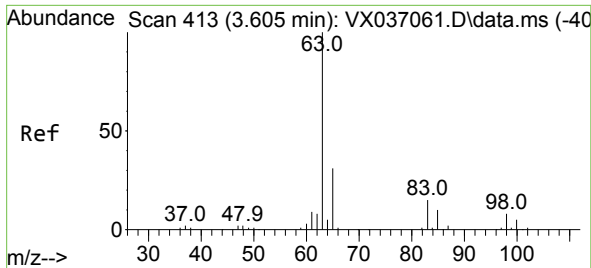
Tgt Ion: 43 Resp: 754

Ion Ratio Lower Upper

43 100

58 28.0 21.9 32.9

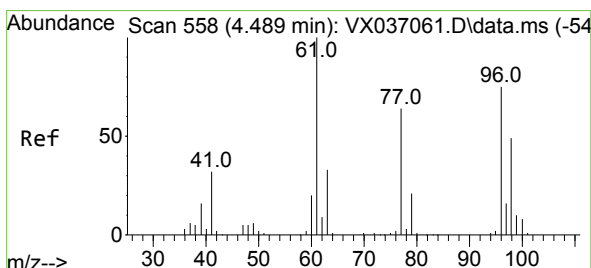
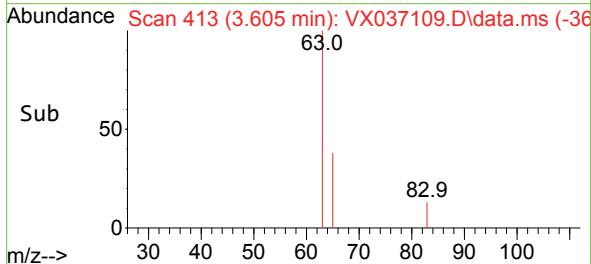
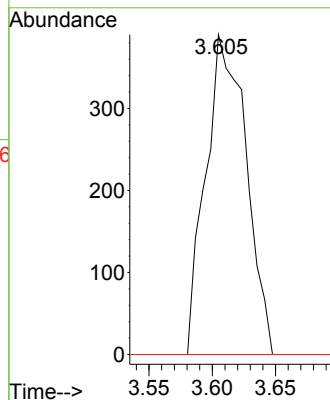
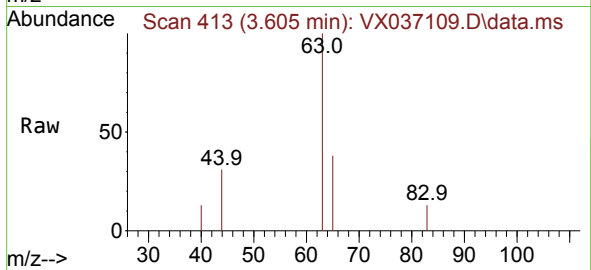




#24  
 1,1-Dichloroethane  
 Concen: 0.265 ug/l  
 RT: 3.605 min Scan# 413  
 Delta R.T. -0.000 min  
 Lab File: VX037109.D  
 Acq: 19 Aug 2023 05:13

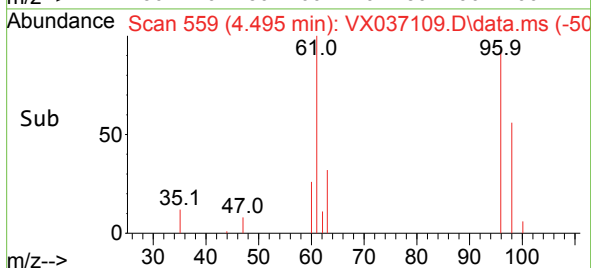
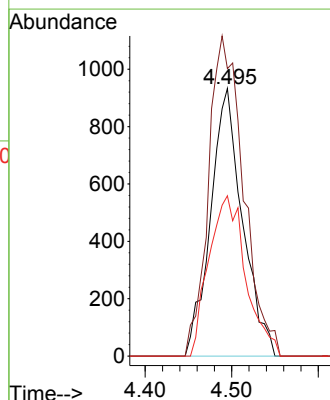
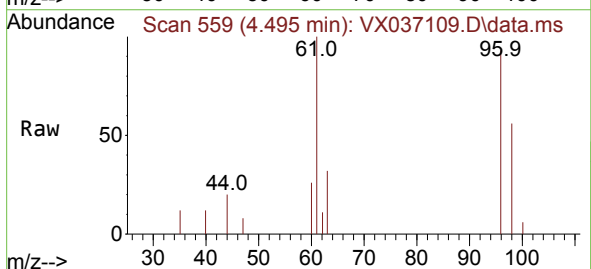
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RW4-20230815

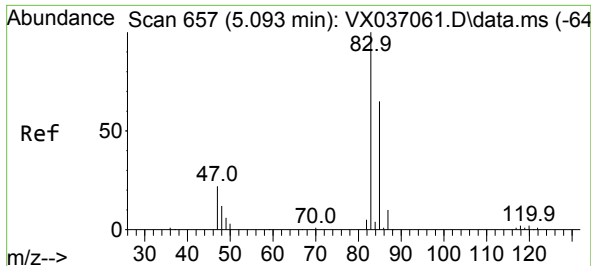
Tgt Ion: 63 Resp: 865  
 Ion Ratio Lower Upper  
 63 100  
 98 0.0 3.3 9.8#  
 100 0.0 2.1 6.5#



#27  
 cis-1,2-Dichloroethene  
 Concen: 1.089 ug/l  
 RT: 4.495 min Scan# 559  
 Delta R.T. 0.006 min  
 Lab File: VX037109.D  
 Acq: 19 Aug 2023 05:13

Tgt Ion: 96 Resp: 2389  
 Ion Ratio Lower Upper  
 96 100  
 61 131.2 0.0 312.2  
 98 69.4 0.0 129.0





#30

Chloroform

Concen: 0.259 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX037109.D

Acq: 19 Aug 2023 05:13

Instrument :

MSVOA\_X

ClientSampleId :

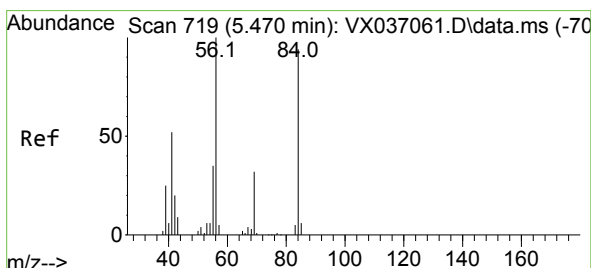
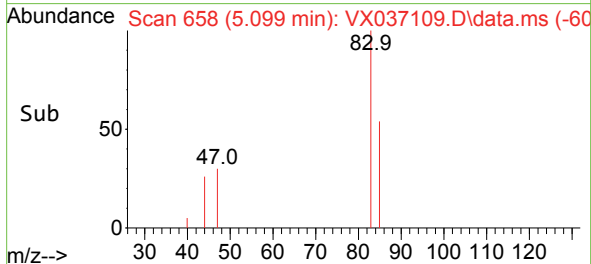
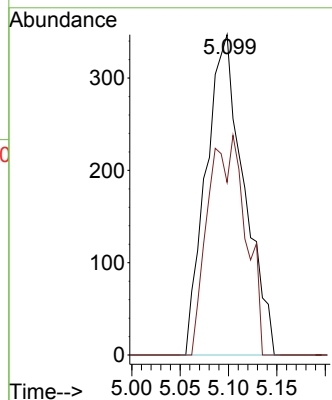
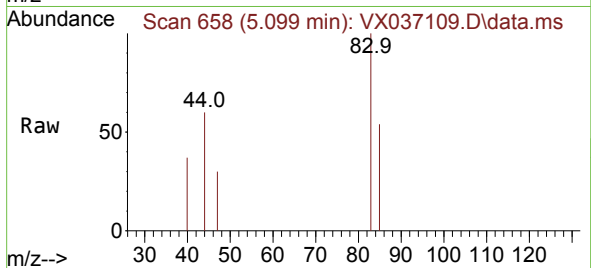
RW4-20230815

Tgt Ion: 83 Resp: 946

Ion Ratio Lower Upper

83 100

85 53.9 50.3 75.5



#31

Cyclohexane

Concen: 1.308 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX037109.D

Acq: 19 Aug 2023 05:13

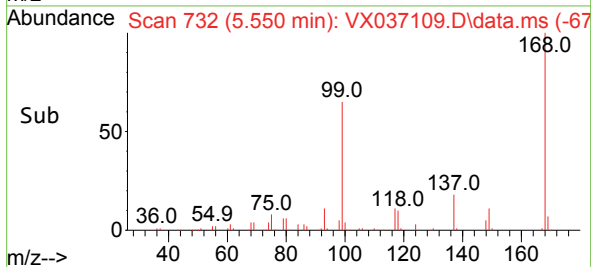
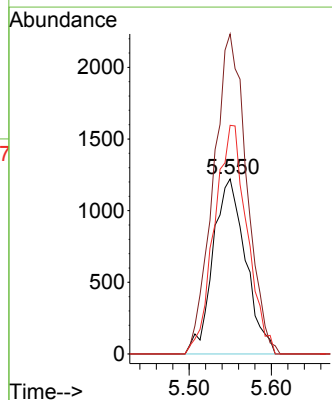
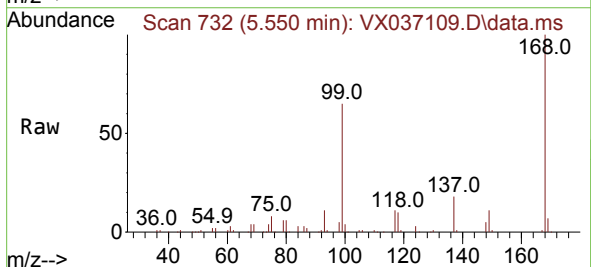
Tgt Ion: 56 Resp: 3371

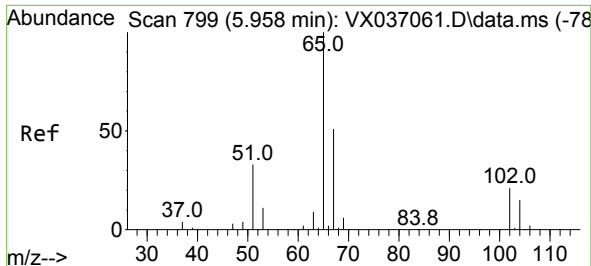
Ion Ratio Lower Upper

56 100

69 182.7 23.4 35.2#

84 130.6 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 52.041 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX037109.D

Acq: 19 Aug 2023 05:13

Instrument :

MSVOA\_X

ClientSampleId :

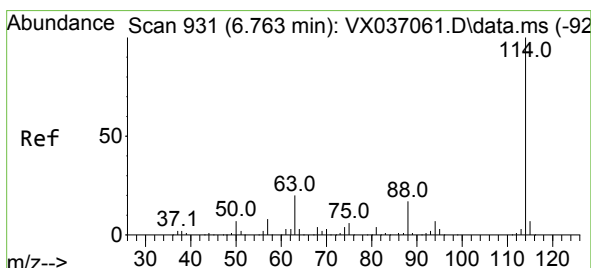
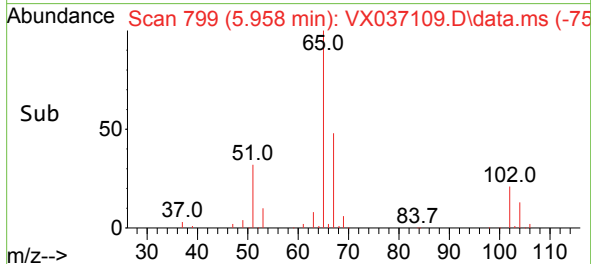
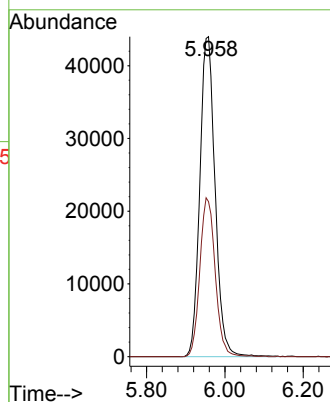
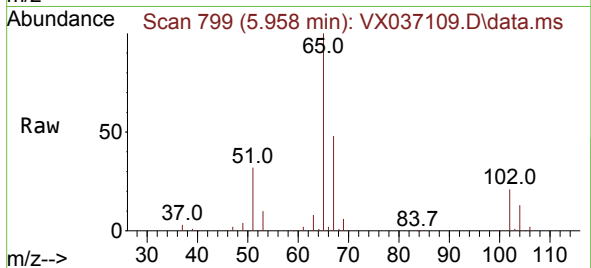
RW4-20230815

Tgt Ion: 65 Resp: 119286

Ion Ratio Lower Upper

65 100

67 49.9 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: VX037109.D

Acq: 19 Aug 2023 05:13

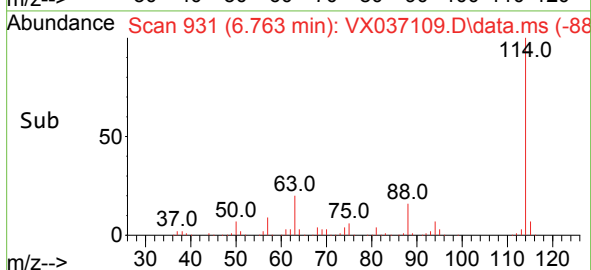
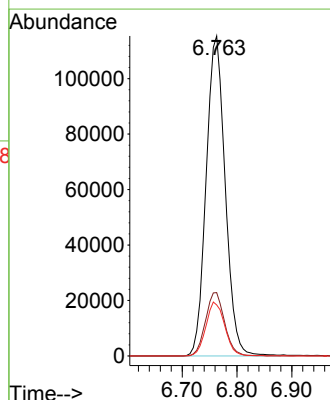
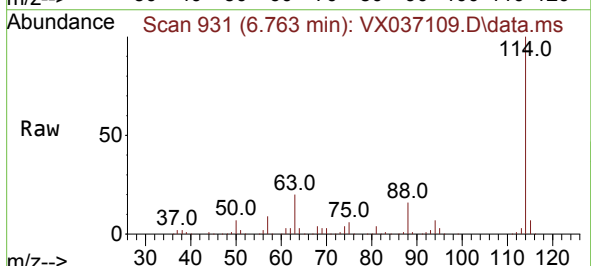
Tgt Ion: 114 Resp: 277854

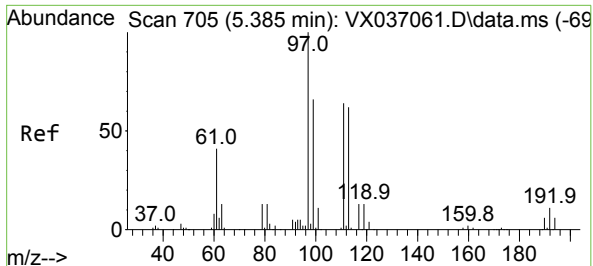
Ion Ratio Lower Upper

114 100

63 19.8 0.0 45.0

88 15.9 0.0 36.6

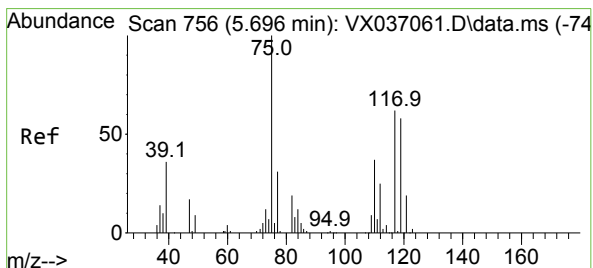
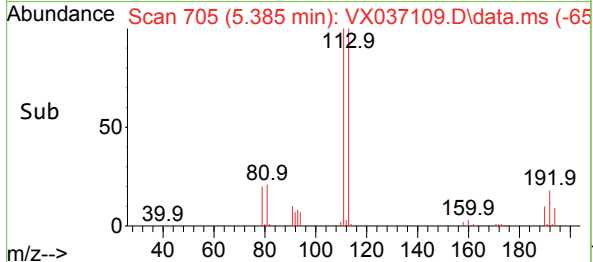
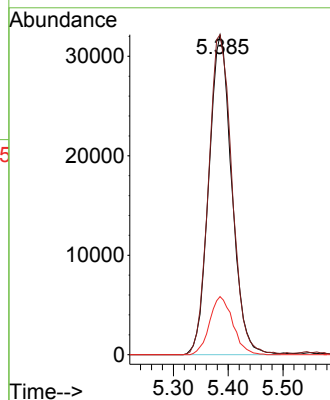
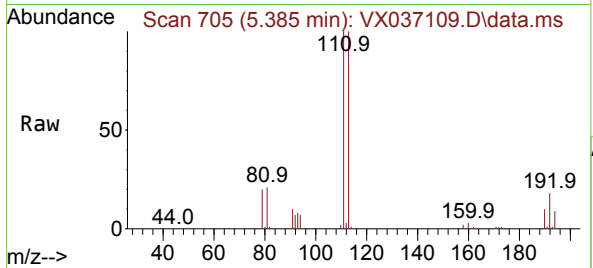




#35  
Dibromofluoromethane  
Concen: 50.684 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

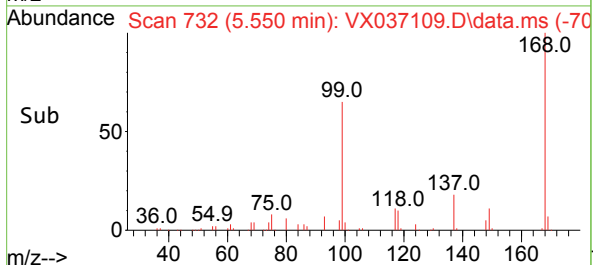
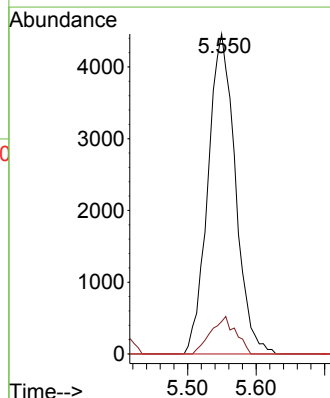
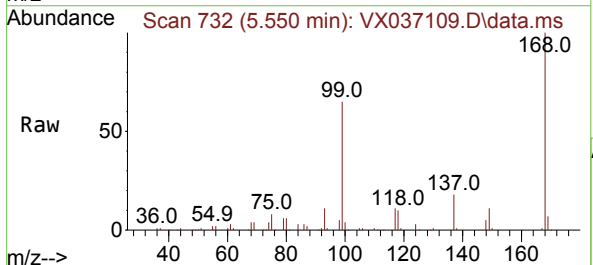
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20230815

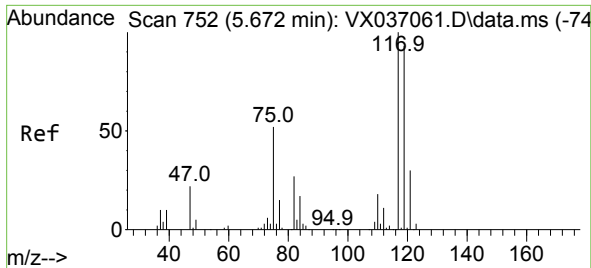
Tgt Ion:113 Resp: 93266  
Ion Ratio Lower Upper  
113 100  
111 102.5 82.9 124.3  
192 18.4 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.738 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.146 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

Tgt Ion: 75 Resp: 12387  
Ion Ratio Lower Upper  
75 100  
110 10.7 17.0 50.9#  
77 0.0 24.7 37.1#

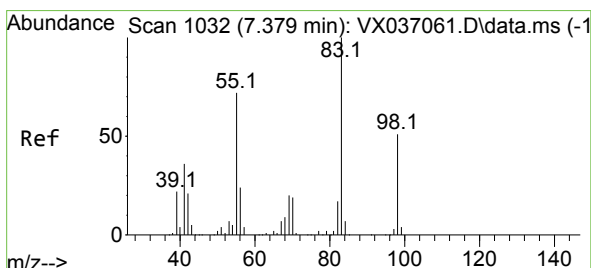
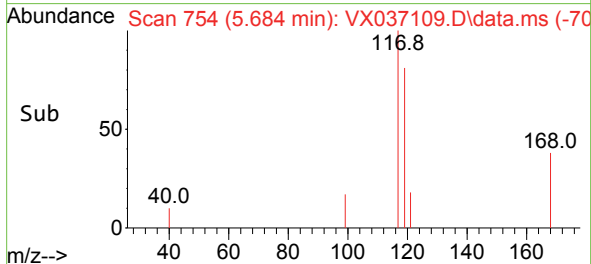
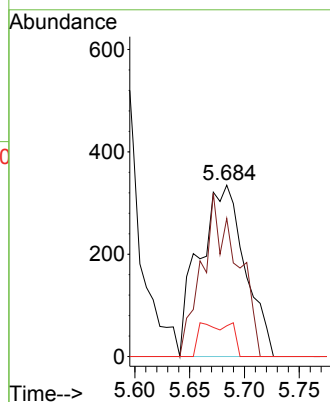
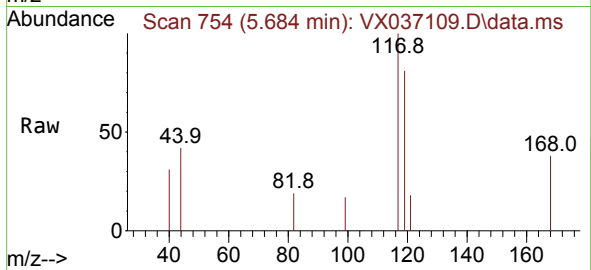




#38  
Carbon Tetrachloride  
Concen: 0.341 ug/l  
RT: 5.684 min Scan# 71  
Delta R.T. 0.012 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

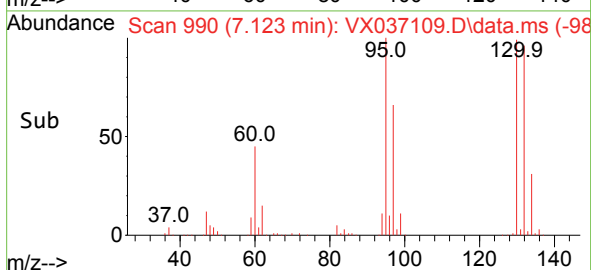
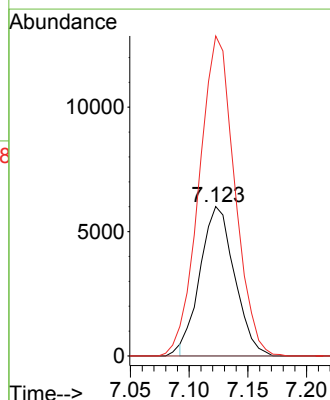
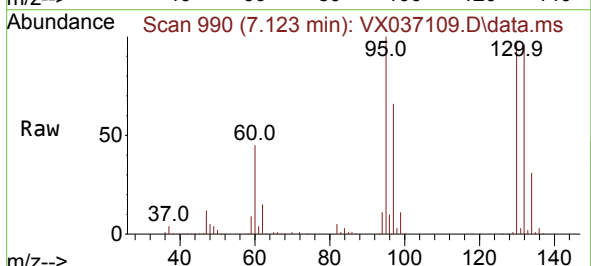
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20230815

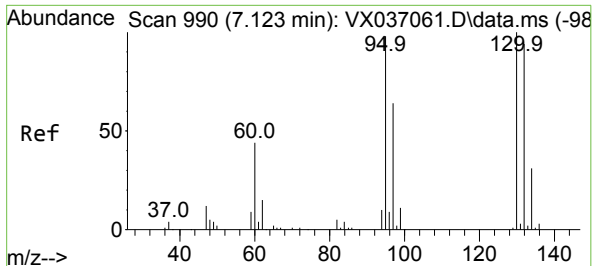
Tgt Ion:117 Resp: 968  
Ion Ratio Lower Upper  
117 100  
119 80.6 78.2 117.2  
121 17.9 24.4 36.6#



#39  
Methylcyclohexane  
Concen: 4.437 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.256 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

Tgt Ion: 83 Resp: 12187  
Ion Ratio Lower Upper  
83 100  
55 0.0 64.6 97.0#  
98 213.2 36.7 55.1#

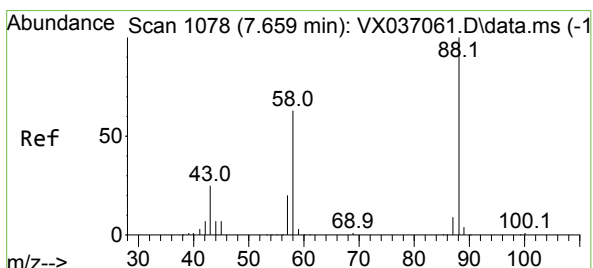
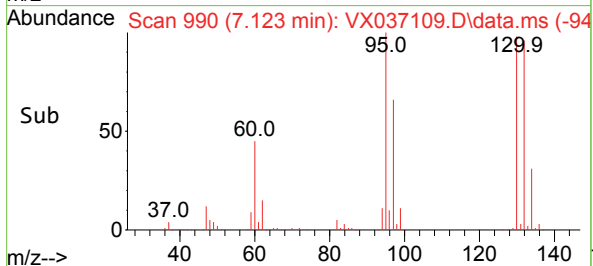
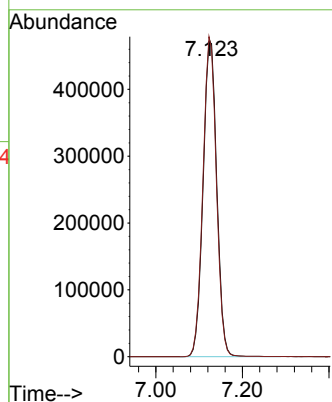
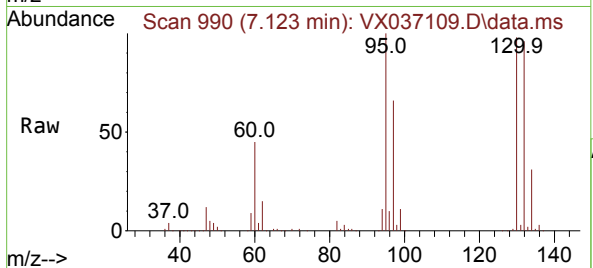




#44  
Trichloroethene  
Concen: 487.333 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.000 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

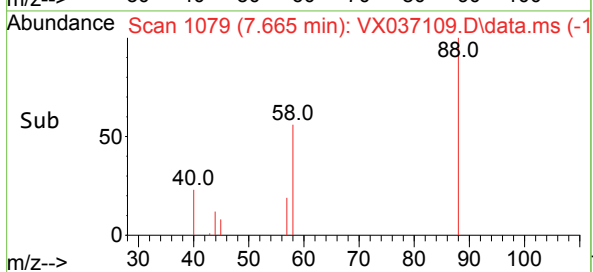
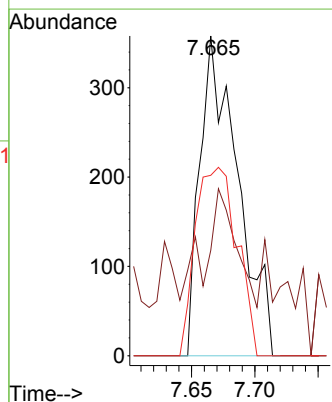
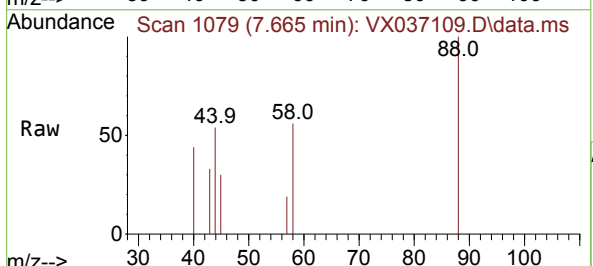
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20230815

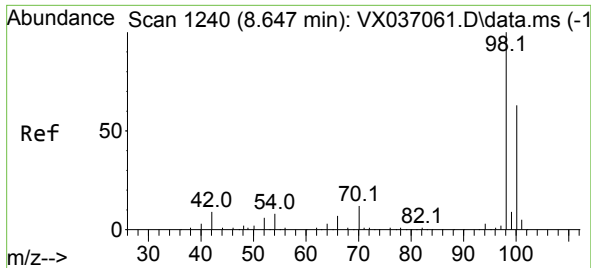
Tgt Ion:130 Resp: 1036122  
Ion Ratio Lower Upper  
130 100  
95 101.6 0.0 204.4



#49  
1,4-Dioxane  
Concen: 13.342 ug/l  
RT: 7.665 min Scan# 1079  
Delta R.T. 0.006 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

Tgt Ion: 88 Resp: 743  
Ion Ratio Lower Upper  
88 100  
43 40.4 0.0 0.0#  
58 65.3 60.1 90.1

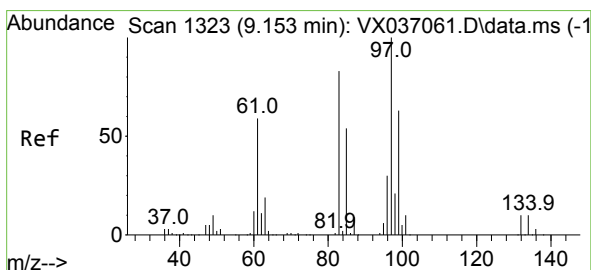
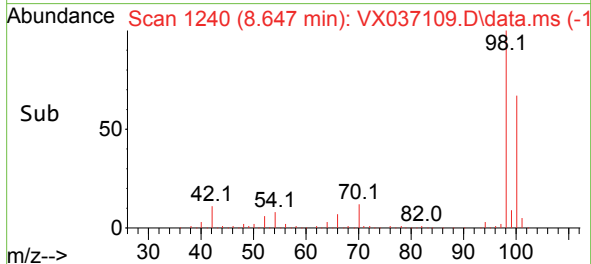
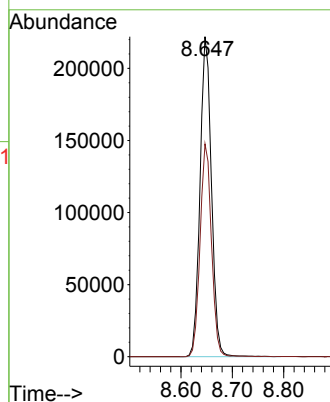
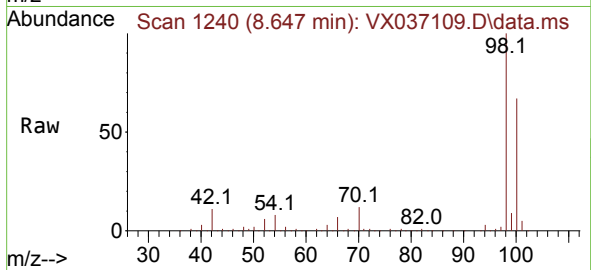




#50  
Toluene-d8  
Concen: 51.155 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

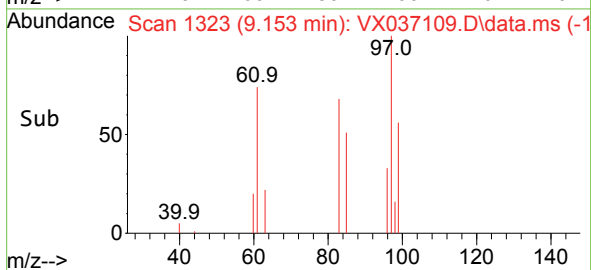
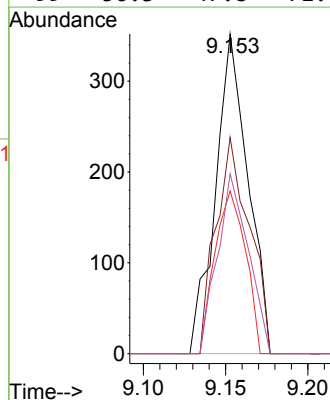
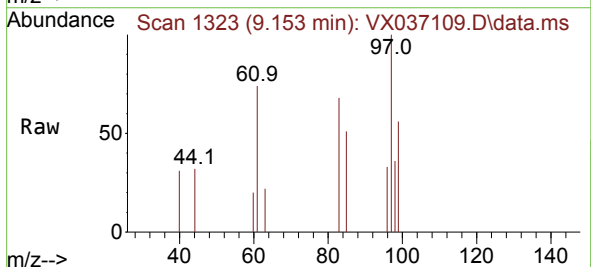
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20230815

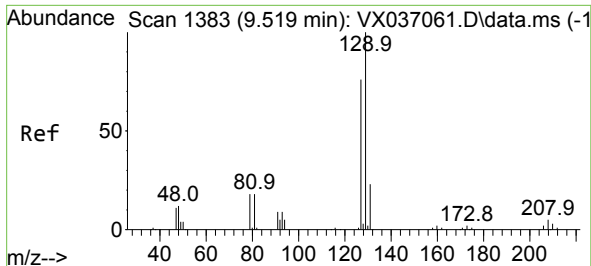
Tgt Ion: 98 Resp: 341455  
Ion Ratio Lower Upper  
98 100  
100 66.6 53.1 79.7



#55  
1,1,2-Trichloroethane  
Concen: 0.240 ug/l  
RT: 9.153 min Scan# 1323  
Delta R.T. -0.000 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

Tgt Ion: 97 Resp: 484  
Ion Ratio Lower Upper  
97 100  
83 67.6 65.8 98.8  
85 50.9 41.6 62.4  
99 56.3 47.8 71.8

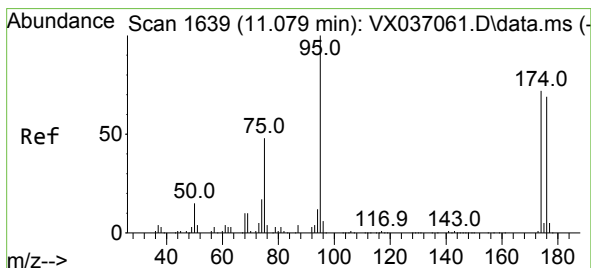
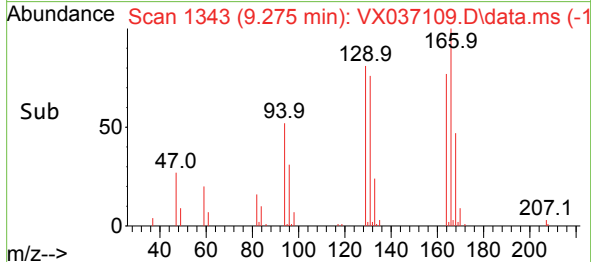
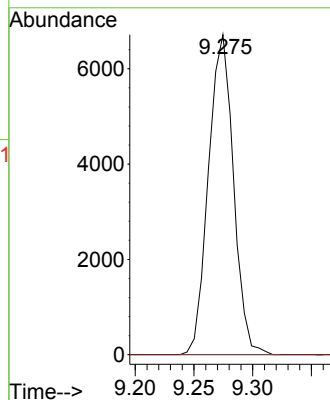
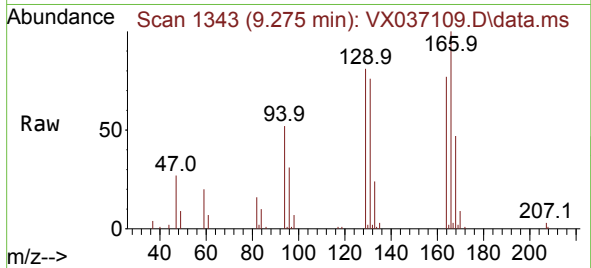




#60  
Dibromochloromethane  
Concen: 4.632 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.244 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

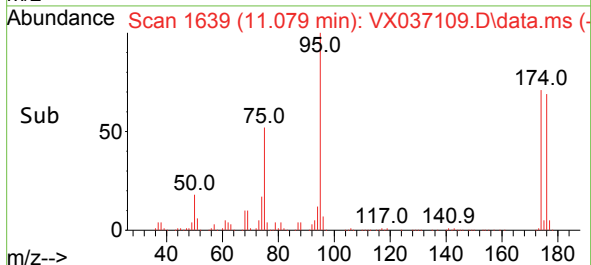
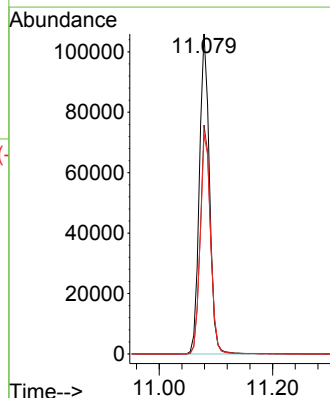
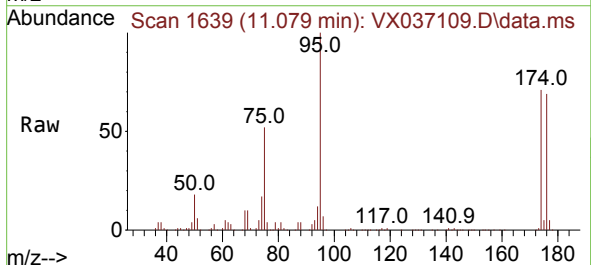
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20230815

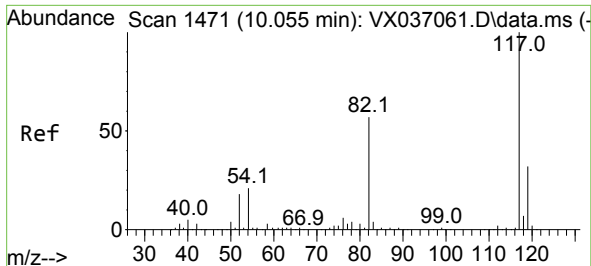
Tgt Ion:129 Resp: 9949  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#



#62  
4-Bromofluorobenzene  
Concen: 49.772 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

Tgt Ion: 95 Resp: 130561  
Ion Ratio Lower Upper  
95 100  
174 71.7 0.0 135.6  
176 70.6 0.0 131.0

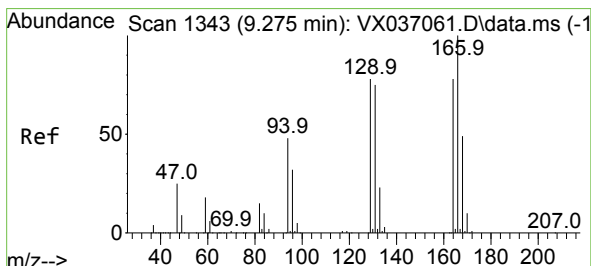
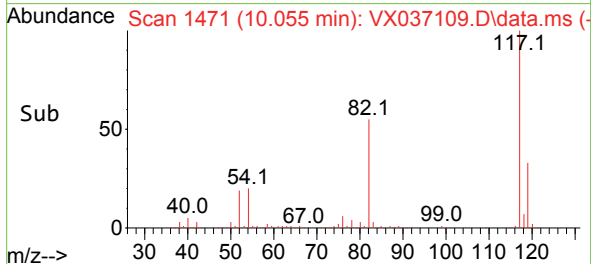
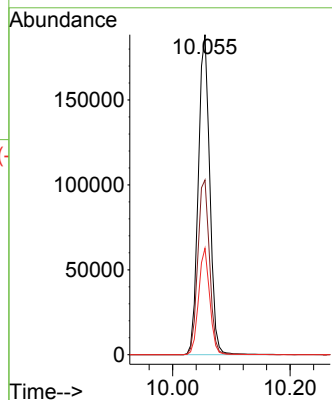
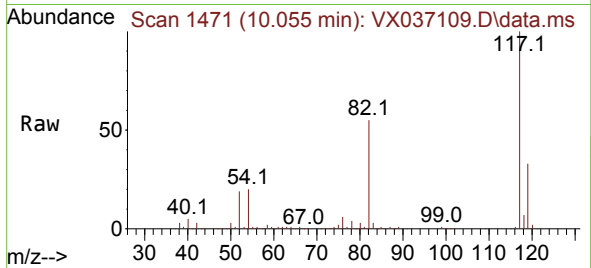




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

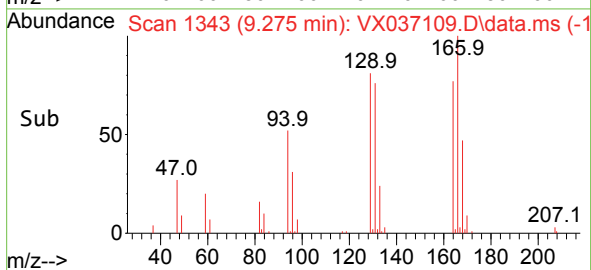
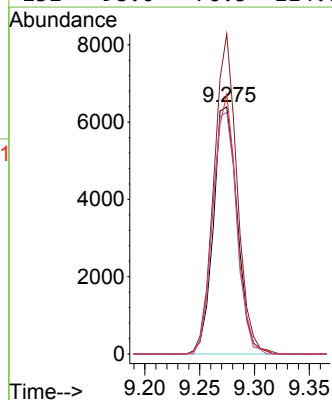
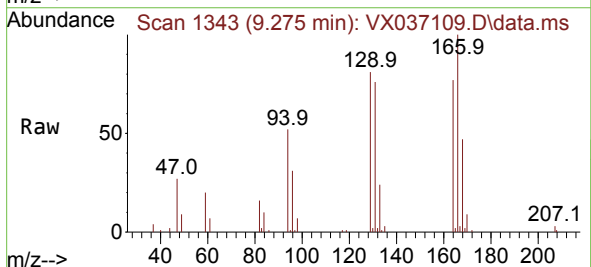
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20230815

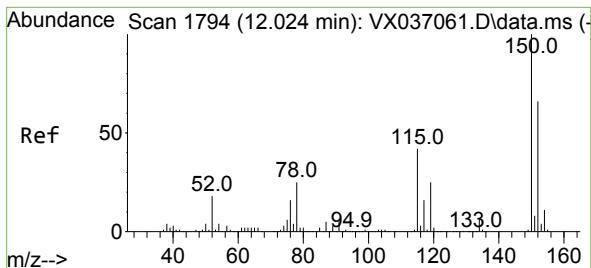
Tgt Ion:117 Resp: 255664  
Ion Ratio Lower Upper  
117 100  
82 54.6 46.2 69.4  
119 33.2 25.5 38.3



#64  
Tetrachloroethene  
Concen: 5.214 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

Tgt Ion:164 Resp: 9724  
Ion Ratio Lower Upper  
164 100  
166 129.6 102.7 154.1  
129 105.1 80.4 120.6  
131 98.0 76.5 114.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX037109.D

Acq: 19 Aug 2023 05:13

Instrument :

MSVOA\_X

ClientSampleId :

RW4-20230815

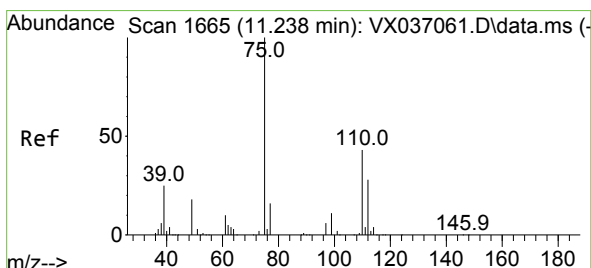
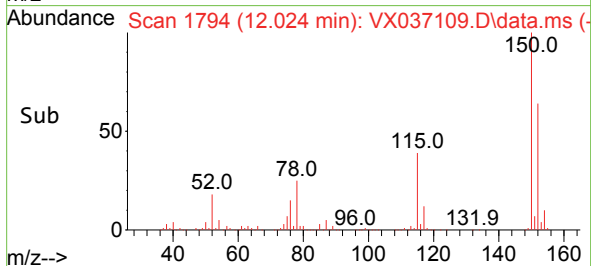
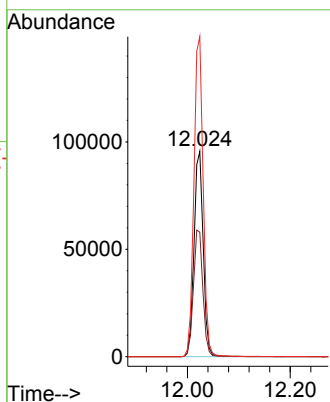
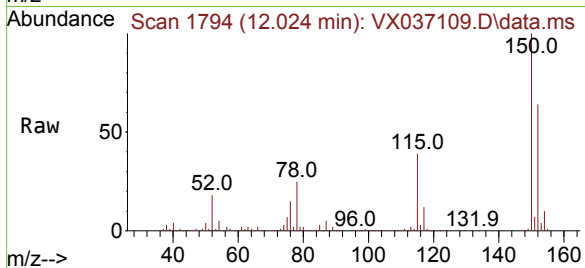
Tgt Ion:152 Resp: 119212

Ion Ratio Lower Upper

152 100

115 63.4 43.3 129.9

150 157.0 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 26.500 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX037109.D

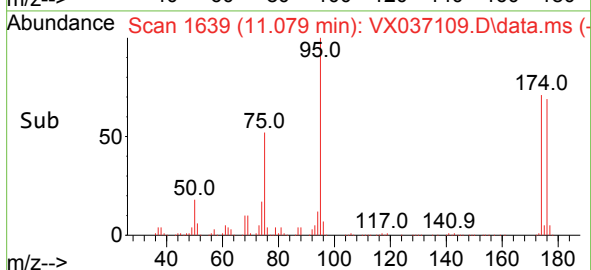
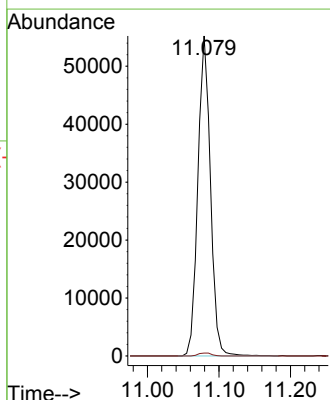
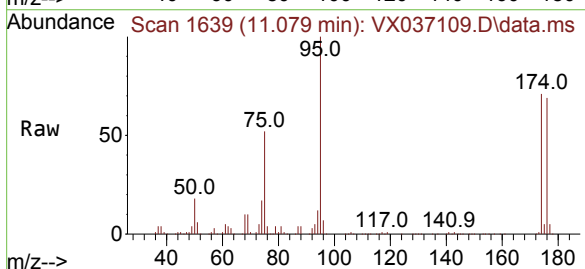
Acq: 19 Aug 2023 05:13

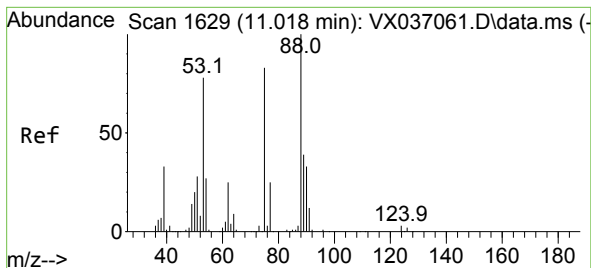
Tgt Ion: 75 Resp: 67278

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#

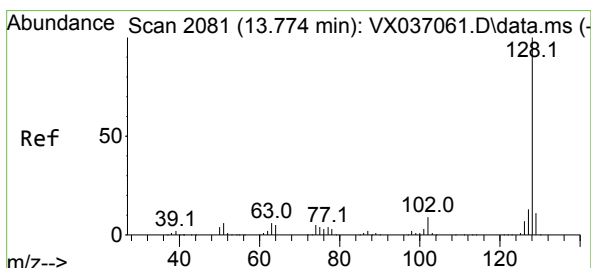
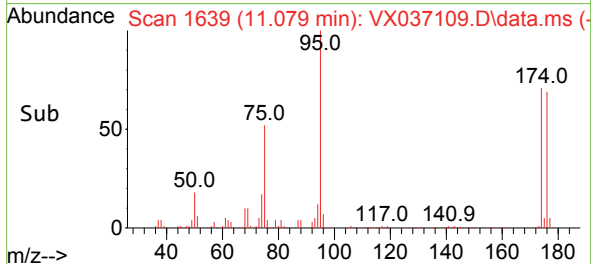
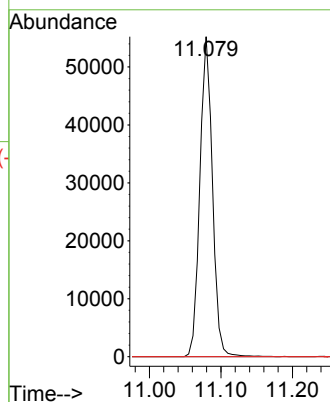
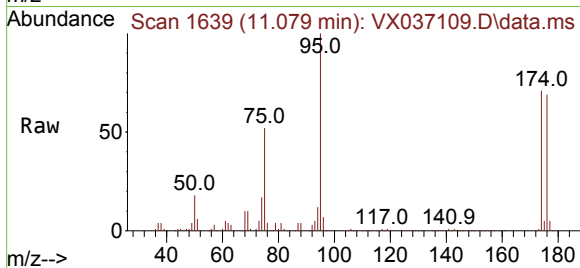




#81  
trans-1,4-Dichloro-2-butene  
Concen: 74.015 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20230815

Tgt Ion: 75 Resp: 67278  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#95  
Naphthalene  
Concen: 0.283 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.006 min  
Lab File: VX037109.D  
Acq: 19 Aug 2023 05:13

Tgt Ion: 128 Resp: 2810  
Ion Ratio Lower Upper  
128 100  
127 10.9 10.3 15.5  
129 8.0 8.8 13.2#

