

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081723\  
 Data File : VX037066.D  
 Acq On : 17 Aug 2023 18:05  
 Operator : JC/MD  
 Sample : BLK  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BLK

Quant Time: Aug 18 06:08:59 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 05:51:31 2023  
 Response via : Initial Calibration

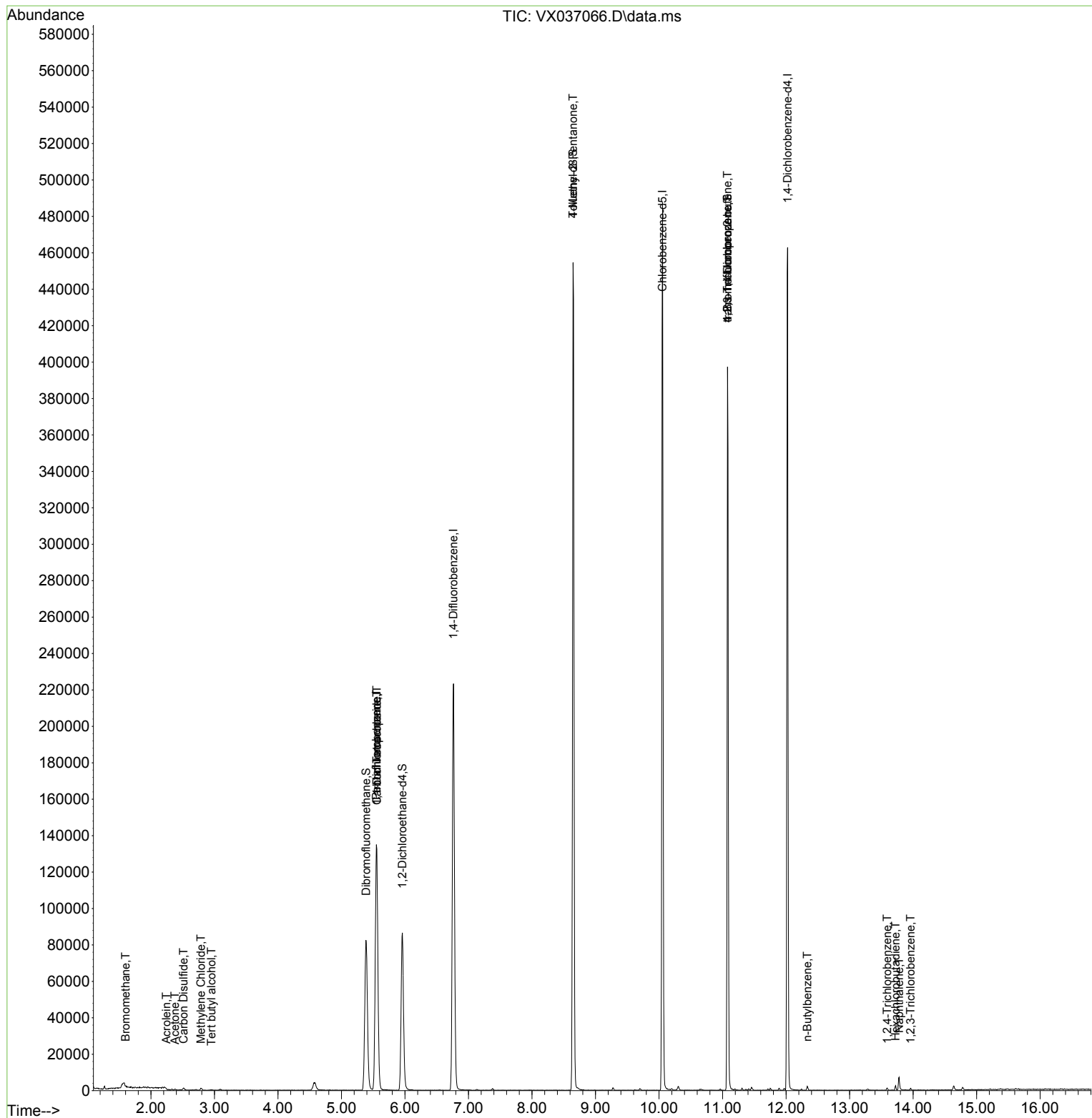
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.549  | 168   | 124968   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 229908   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 221251   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 97223    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 87024    | 48.303   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 96.600%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 73193    | 48.070   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 96.140%  |
| 50) Toluene-d8                | 8.646  | 98    | 275466   | 49.875   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 99.740%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 109284   | 50.349   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 100.700% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Bromomethane               | 1.599  | 94    | 210      | 0.305    | ug/l # | 47       |
| 11) Tert butyl alcohol        | 2.952  | 59    | 193      | 0.457    | ug/l # | 78       |
| 13) Acrolein                  | 2.239  | 56    | 270      | 0.840    | ug/l # | 54       |
| 16) Acetone                   | 2.379  | 43    | 584      | 0.829    | ug/l # | 47       |
| 17) Carbon Disulfide          | 2.513  | 76    | 1497     | 0.457    | ug/l   | 98       |
| 20) Methylene Chloride        | 2.788  | 84    | 590      | 0.374    | ug/l # | 87       |
| 36) 1,1-Dichloropropene       | 5.555  | 75    | 9994     | 4.620    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.555  | 117   | 13667    | 5.816    | ug/l # | 14       |
| 51) 4-Methyl-2-Pentanone      | 8.646  | 43    | 1055     | 0.495    | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 55593    | 26.850   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 55593    | 74.992   | ug/l # | 5        |
| 89) n-Butylbenzene            | 12.335 | 91    | 992      | 0.212    | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 473      | 0.255    | ug/l   | 91       |
| 94) Hexachlorobutadiene       | 13.725 | 225   | 447      | 0.625    | ug/l   | 93       |
| 95) Naphthalene               | 13.780 | 128   | 6252     | 0.771    | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180   | 401      | 0.218    | ug/l   | 77       |
| -----                         |        |       |          |          |        |          |

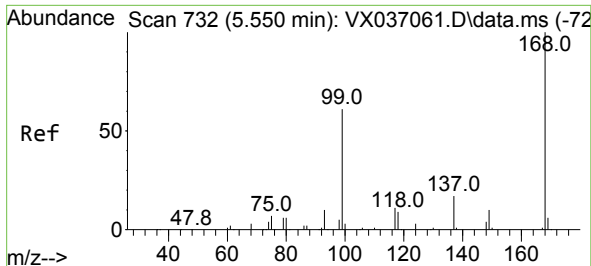
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081723\  
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Sample : BLK  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
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BLK

Quant Time: Aug 18 06:08:59 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 18 05:51:31 2023  
Response via : Initial Calibration

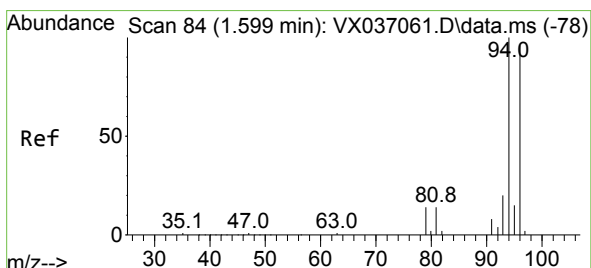
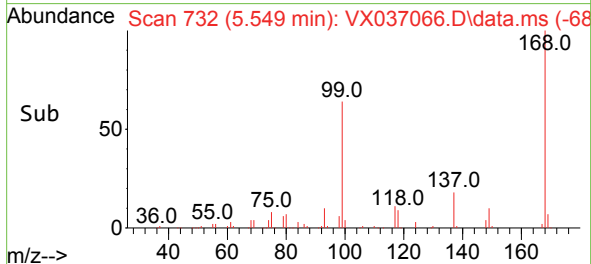
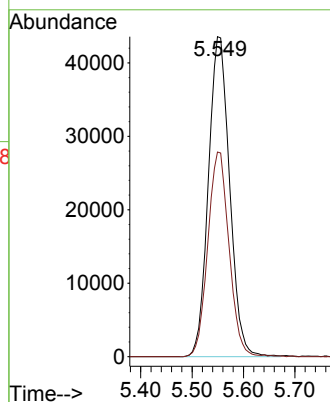
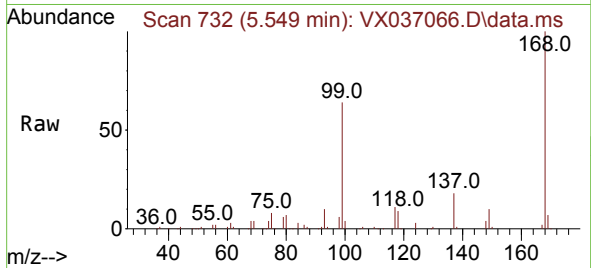




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.549 min Scan# 71  
Delta R.T. -0.001 min  
Lab File: VX037066.D  
Acq: 17 Aug 2023 18:05

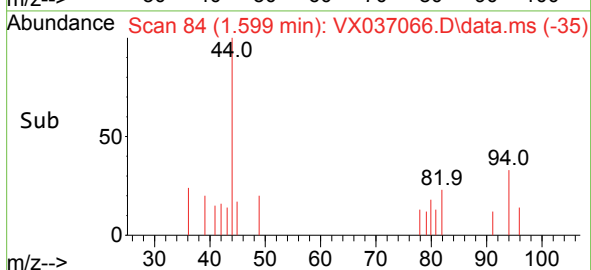
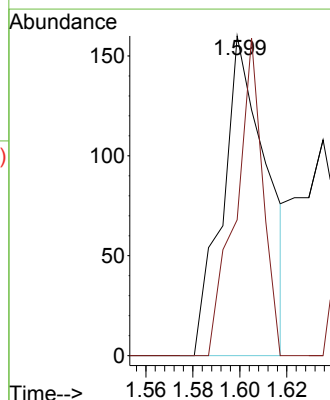
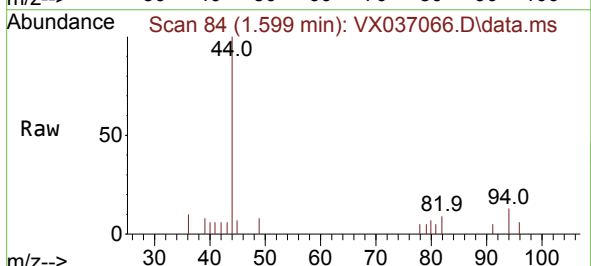
Instrument :  
MSVOA\_X  
ClientSampleId :  
BLK

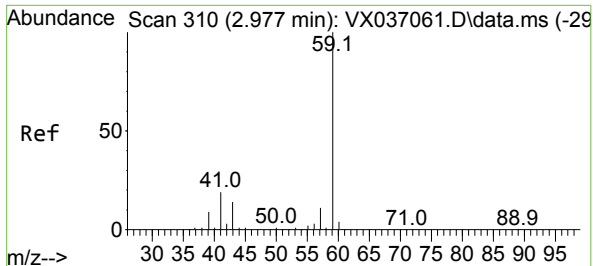
Tgt Ion:168 Resp: 124968  
Ion Ratio Lower Upper  
168 100  
99 64.0 56.6 85.0



#5  
Bromomethane  
Concen: 0.305 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. -0.000 min  
Lab File: VX037066.D  
Acq: 17 Aug 2023 18:05

Tgt Ion: 94 Resp: 210  
Ion Ratio Lower Upper  
94 100  
96 42.5 74.6 111.8#





#11

Tert butyl alcohol

Concen: 0.457 ug/l

RT: 2.952 min Scan# 30

Delta R.T. -0.025 min

Lab File: VX037066.D

Acq: 17 Aug 2023 18:05

Instrument :

MSVOA\_X

ClientSampleId :

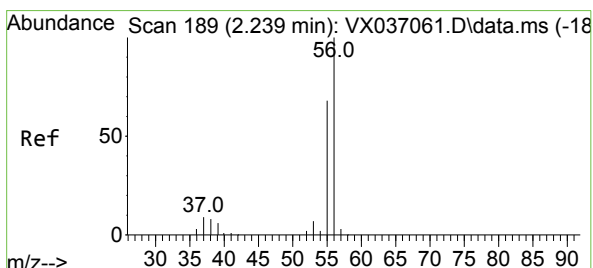
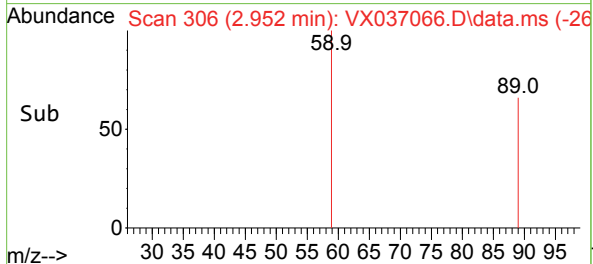
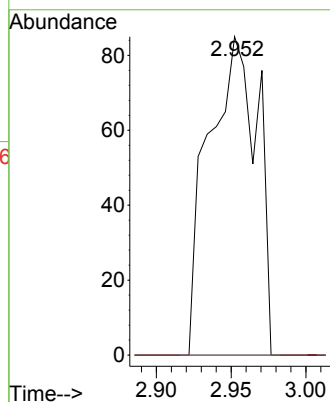
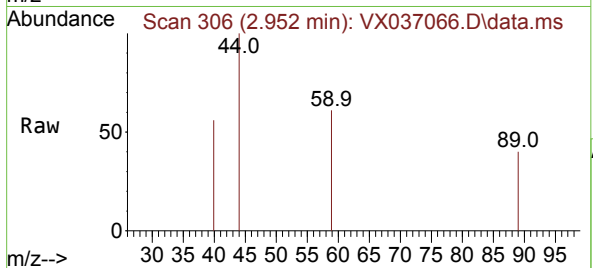
BLK

Tgt Ion: 59 Resp: 193

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#13

Acrolein

Concen: 0.840 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX037066.D

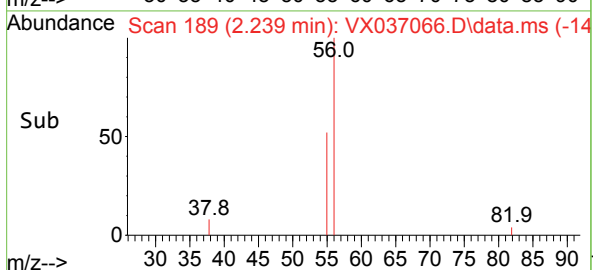
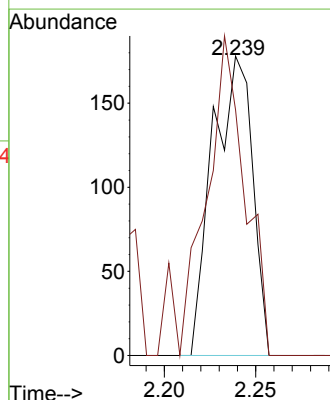
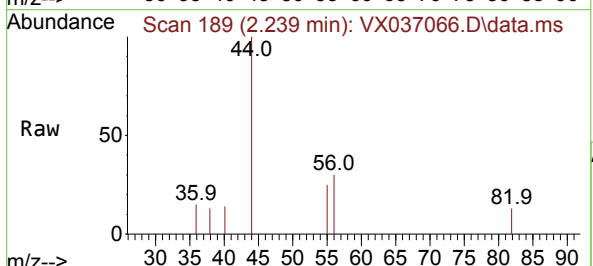
Acq: 17 Aug 2023 18:05

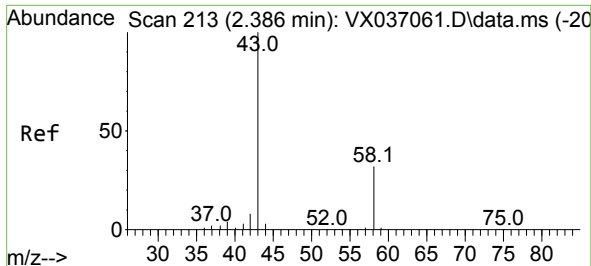
Tgt Ion: 56 Resp: 270

Ion Ratio Lower Upper

56 100

55 109.3 57.1 85.7#





#16

Acetone

Concen: 0.829 ug/l

RT: 2.379 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX037066.D

Acq: 17 Aug 2023 18:05

Instrument :

MSVOA\_X

ClientSampleId :

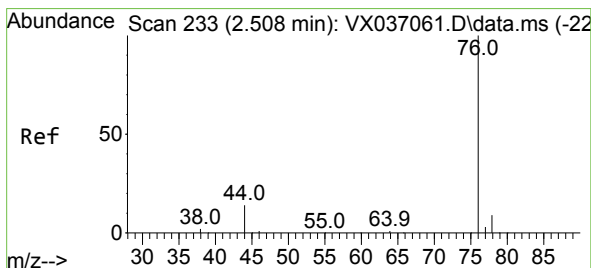
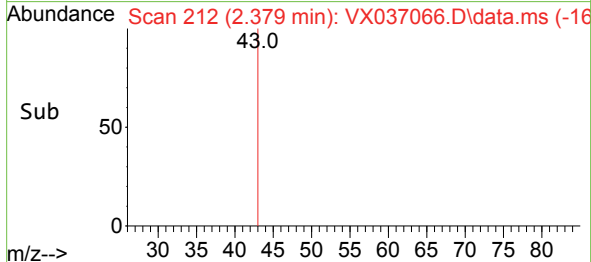
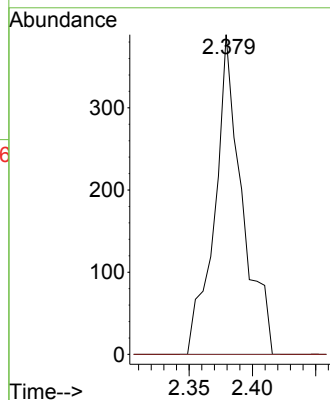
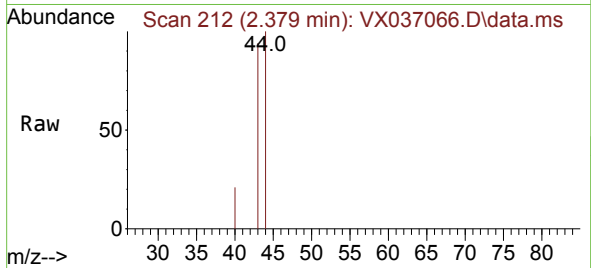
BLK

Tgt Ion: 43 Resp: 584

Ion Ratio Lower Upper

43 100

58 0.0 21.9 32.9#



#17

Carbon Disulfide

Concen: 0.457 ug/l

RT: 2.513 min Scan# 234

Delta R.T. 0.006 min

Lab File: VX037066.D

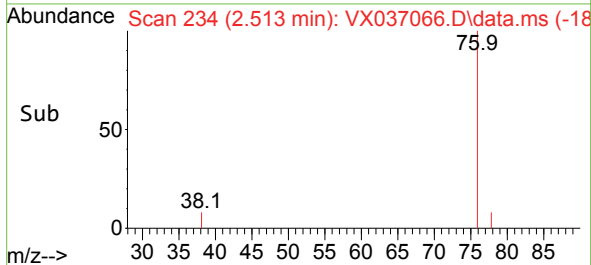
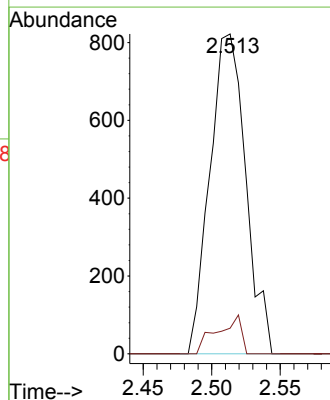
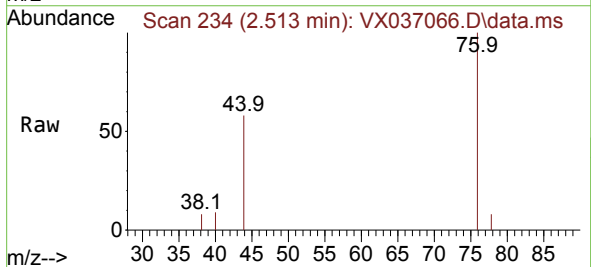
Acq: 17 Aug 2023 18:05

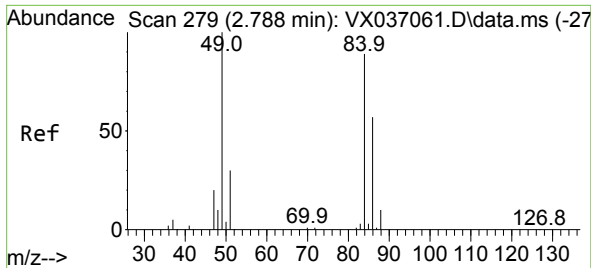
Tgt Ion: 76 Resp: 1497

Ion Ratio Lower Upper

76 100

78 8.0 7.0 10.6





#20

Methylene Chloride

Concen: 0.374 ug/l

RT: 2.788 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX037066.D

Acq: 17 Aug 2023 18:05

Instrument :

MSVOA\_X

ClientSampleId :

BLK

Tgt Ion: 84 Resp: 590

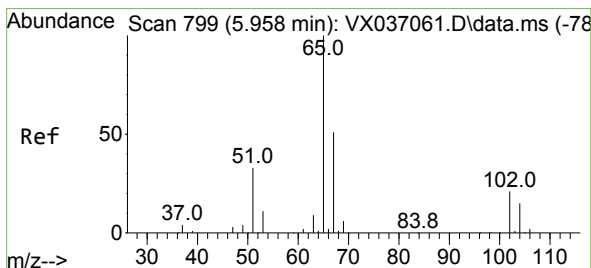
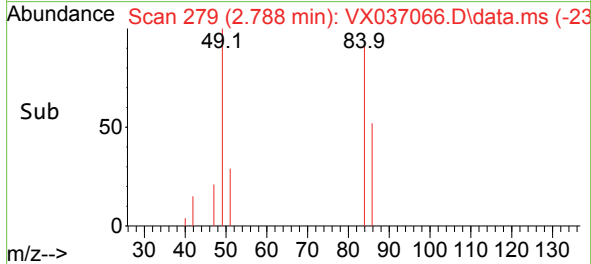
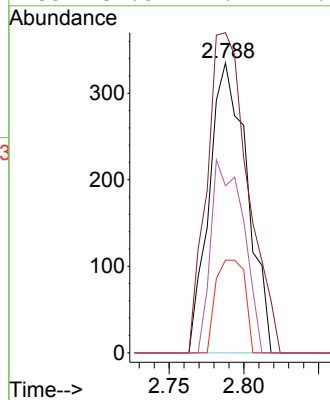
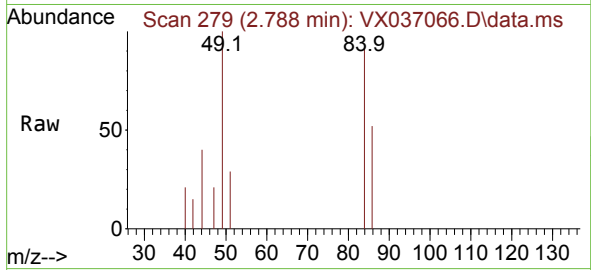
Ion Ratio Lower Upper

84 100

49 110.4 103.6 155.4

51 31.9 33.8 50.6#

86 57.6 49.4 74.0



#33

1,2-Dichloroethane-d4

Concen: 48.303 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX037066.D

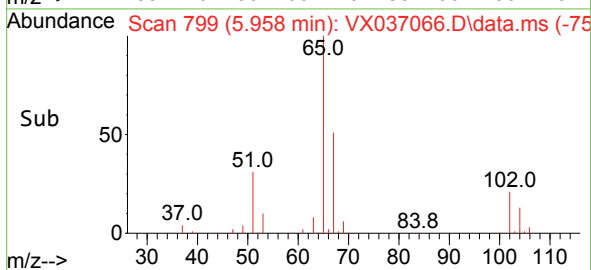
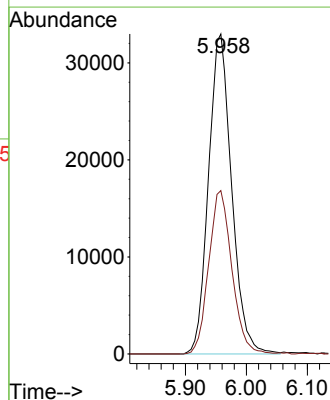
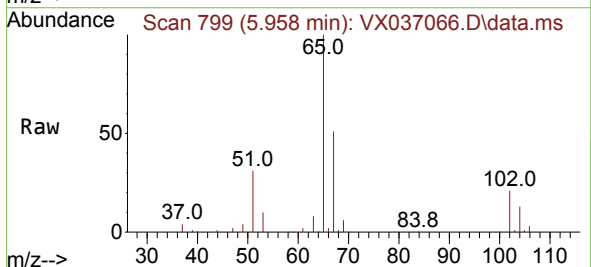
Acq: 17 Aug 2023 18:05

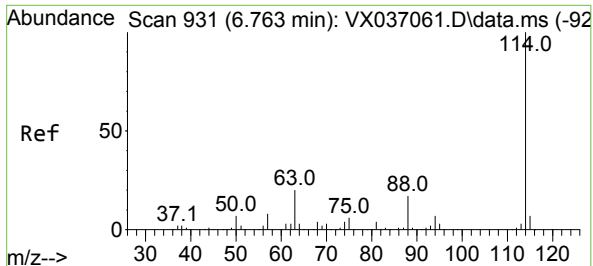
Tgt Ion: 65 Resp: 87024

Ion Ratio Lower Upper

65 100

67 51.1 0.0 100.2

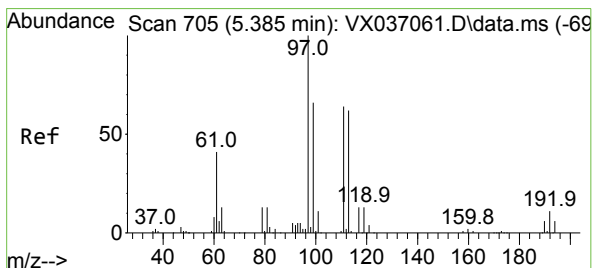
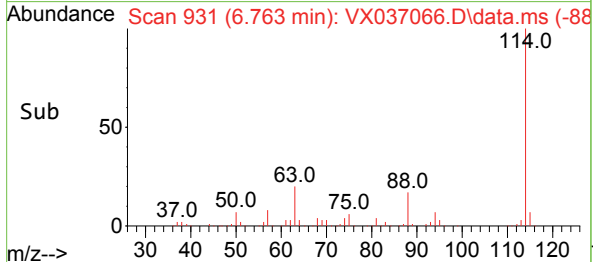
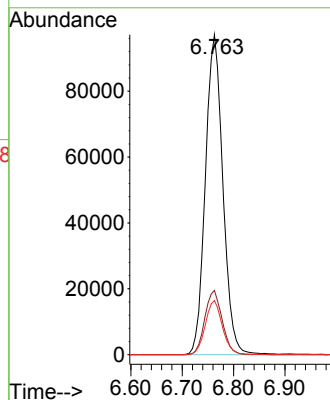
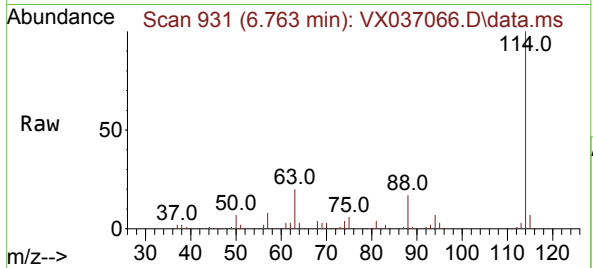




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX037066.D  
Acq: 17 Aug 2023 18:05

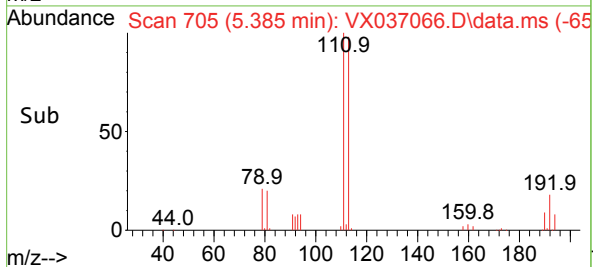
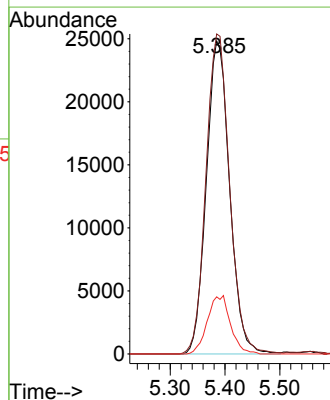
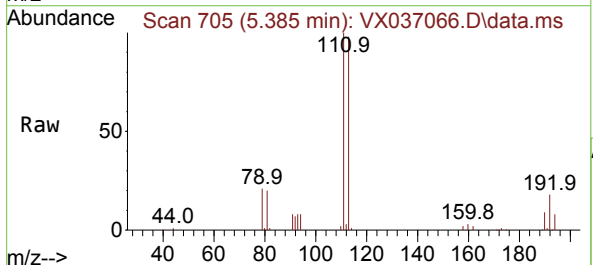
Instrument :  
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BLK

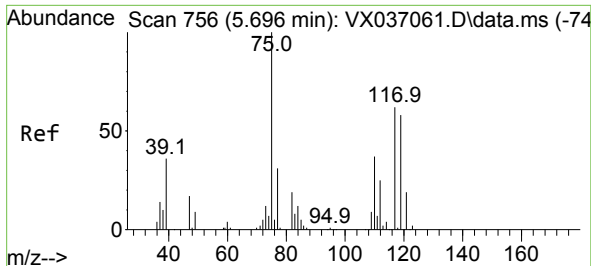
Tgt Ion:114 Resp: 229908  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 45.0  
88 16.9 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 48.070 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX037066.D  
Acq: 17 Aug 2023 18:05

Tgt Ion:113 Resp: 73193  
Ion Ratio Lower Upper  
113 100  
111 103.8 82.9 124.3  
192 18.5 13.3 19.9

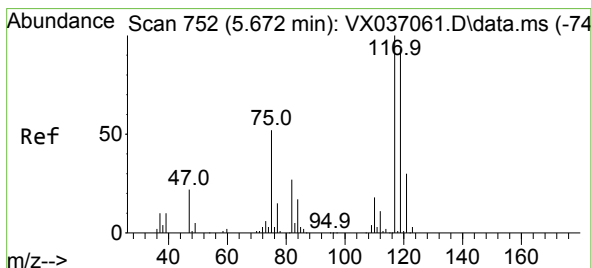
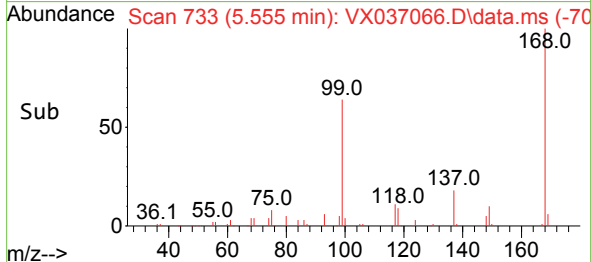
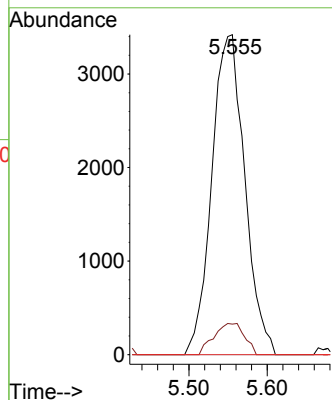
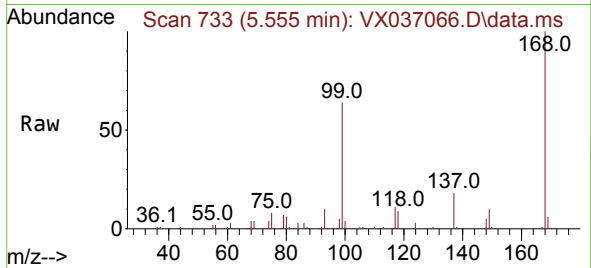




#36  
1,1-Dichloropropene  
Concen: 4.620 ug/l  
RT: 5.555 min Scan# 713  
Delta R.T. -0.141 min  
Lab File: VX037066.D  
Acq: 17 Aug 2023 18:05

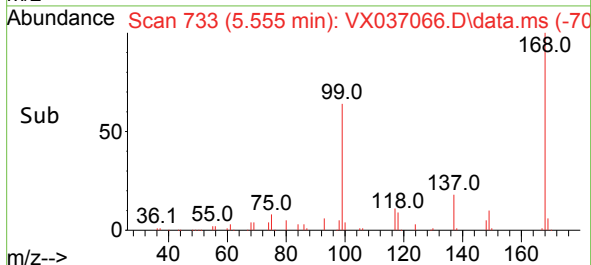
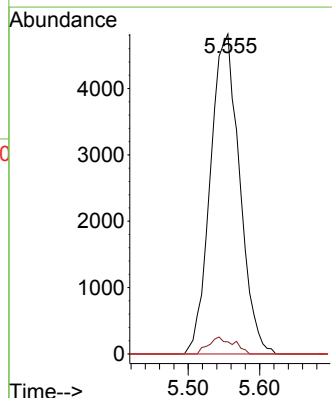
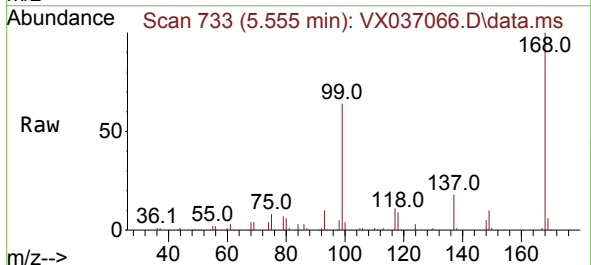
Instrument :  
MSVOA\_X  
ClientSampleId :  
BLK

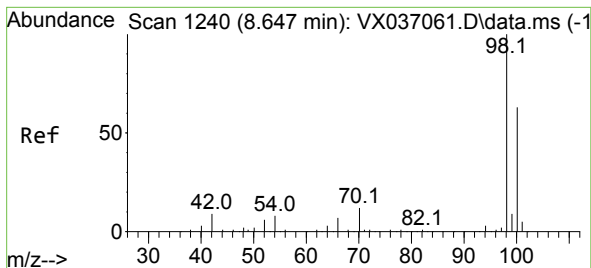
Tgt Ion: 75 Resp: 9994  
Ion Ratio Lower Upper  
75 100  
110 9.0 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 5.816 ug/l  
RT: 5.555 min Scan# 733  
Delta R.T. -0.116 min  
Lab File: VX037066.D  
Acq: 17 Aug 2023 18:05

Tgt Ion: 117 Resp: 13667  
Ion Ratio Lower Upper  
117 100  
119 3.8 78.2 117.2#  
121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 49.875 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX037066.D

Acq: 17 Aug 2023 18:05

Instrument :

MSVOA\_X

ClientSampleId :

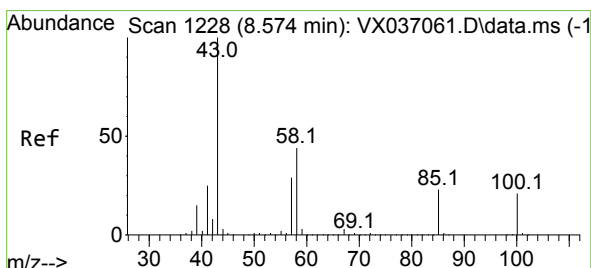
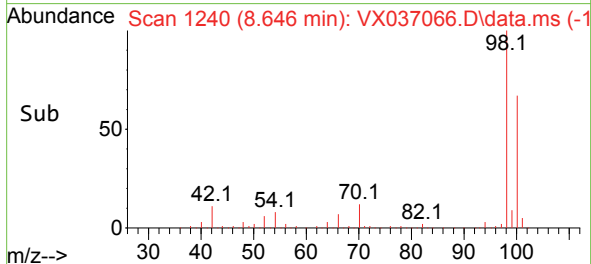
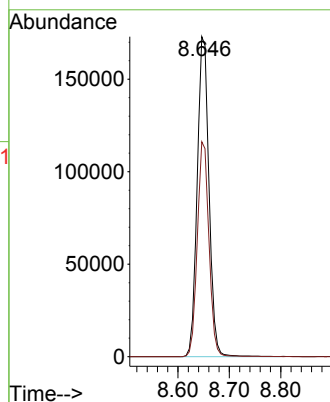
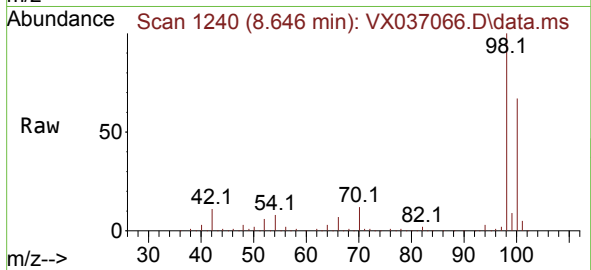
BLK

Tgt Ion: 98 Resp: 275466

Ion Ratio Lower Upper

98 100

100 66.5 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 0.495 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX037066.D

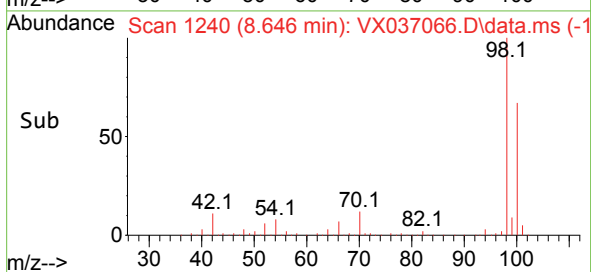
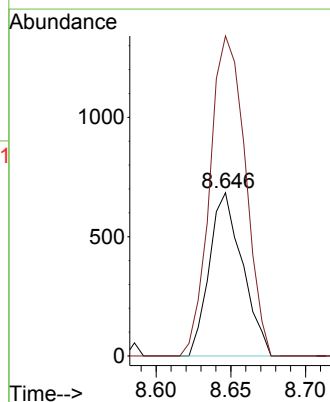
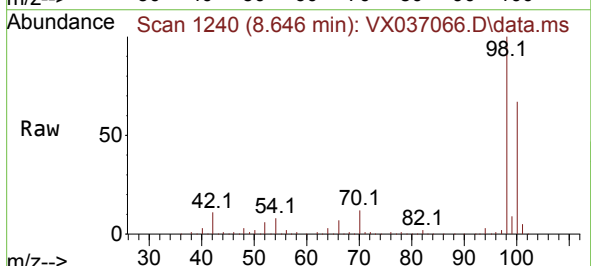
Acq: 17 Aug 2023 18:05

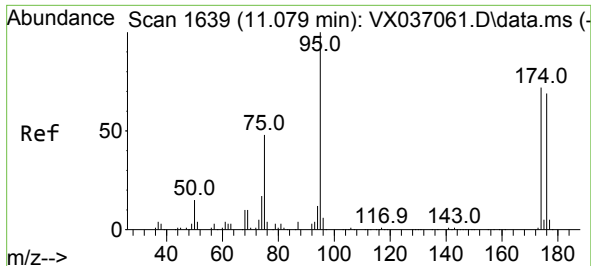
Tgt Ion: 43 Resp: 1055

Ion Ratio Lower Upper

43 100

58 209.5 30.4 45.6#

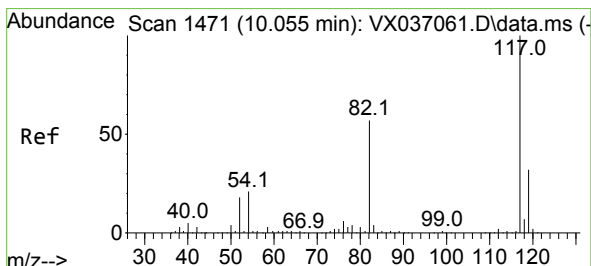
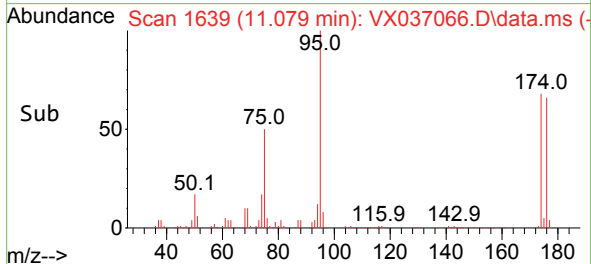
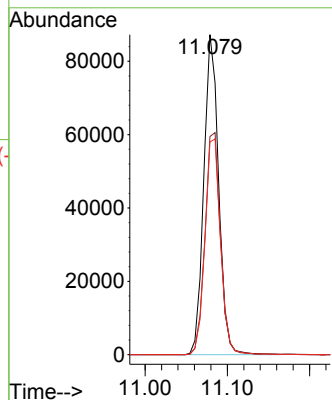
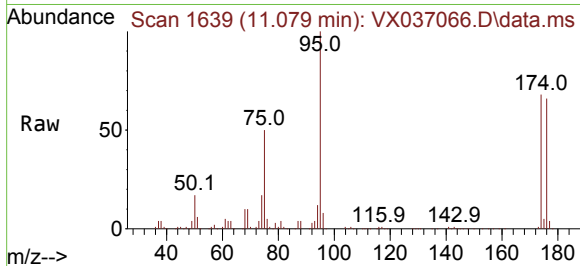




#62  
4-Bromofluorobenzene  
Concen: 50.349 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX037066.D  
Acq: 17 Aug 2023 18:05

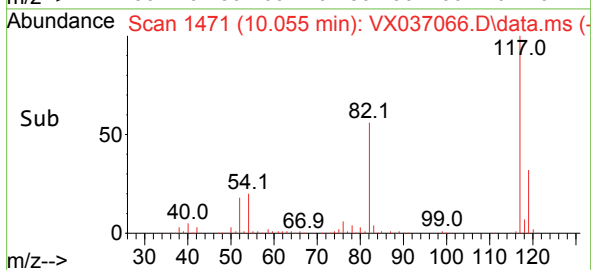
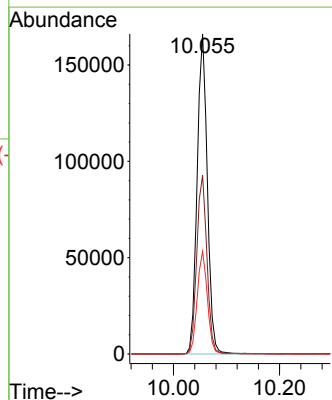
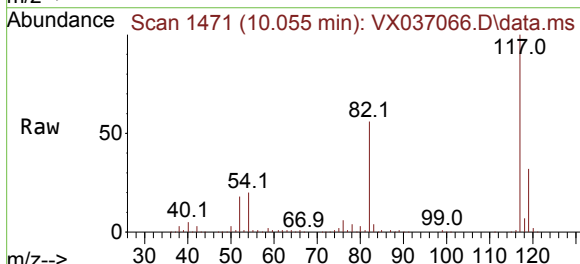
Instrument :  
MSVOA\_X  
ClientSampleId :  
BLK

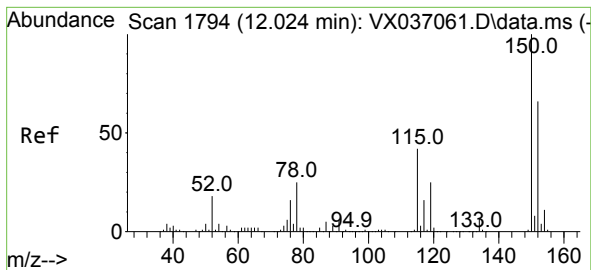
Tgt Ion: 95 Resp: 109284  
Ion Ratio Lower Upper  
95 100  
174 72.7 0.0 135.6  
176 70.7 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX037066.D  
Acq: 17 Aug 2023 18:05

Tgt Ion: 117 Resp: 221251  
Ion Ratio Lower Upper  
117 100  
82 55.9 46.2 69.4  
119 32.1 25.5 38.3

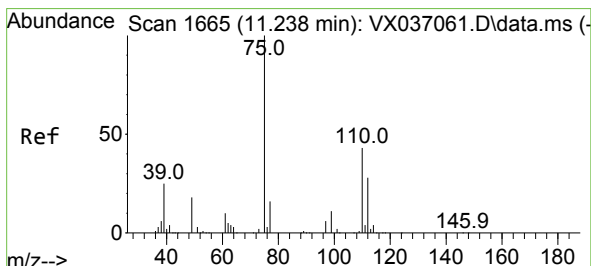
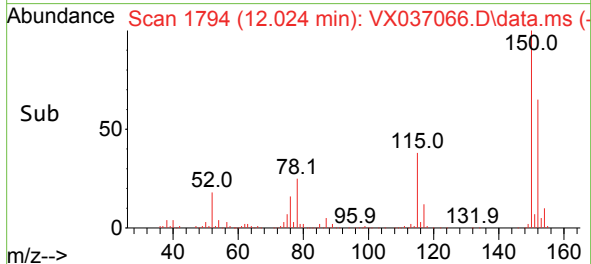
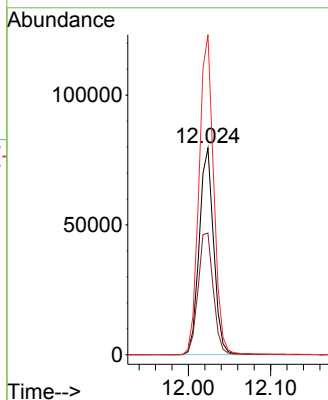
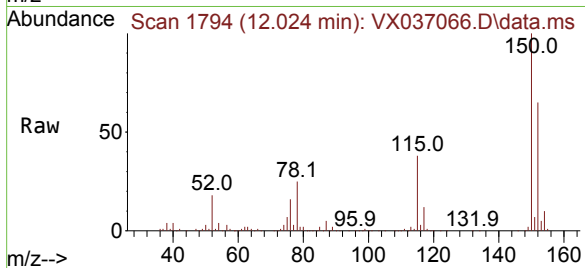




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VX037066.D  
 Acq: 17 Aug 2023 18:05

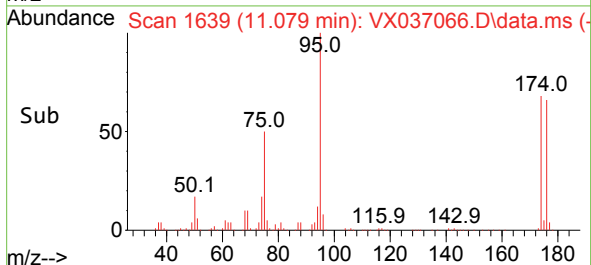
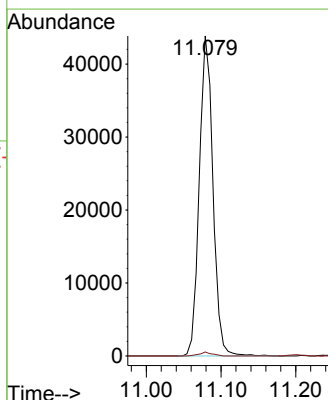
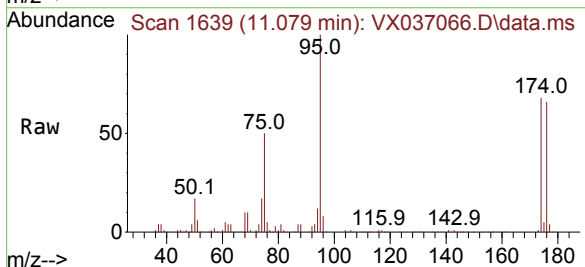
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BLK

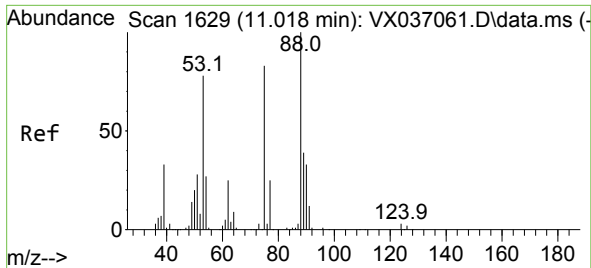
Tgt Ion:152 Resp: 97223  
 Ion Ratio Lower Upper  
 152 100  
 115 62.3 43.3 129.9  
 150 157.5 0.0 345.0



#76  
 1,2,3-Trichloropropane  
 Concen: 26.850 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX037066.D  
 Acq: 17 Aug 2023 18:05

Tgt Ion: 75 Resp: 55593  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 19.1 57.5#

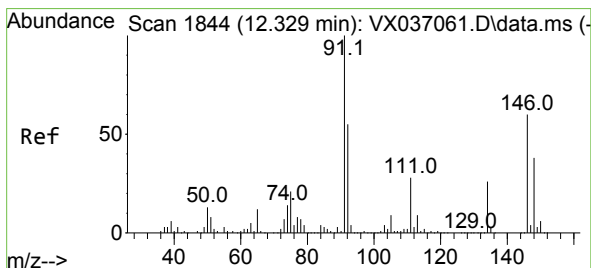
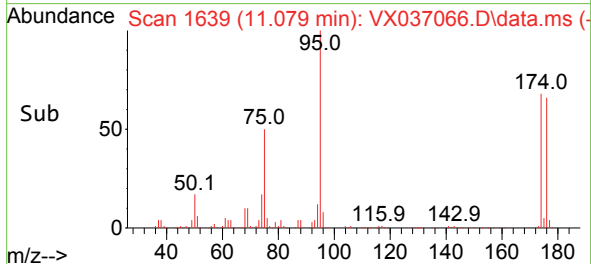
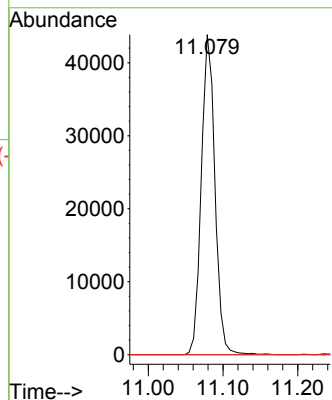
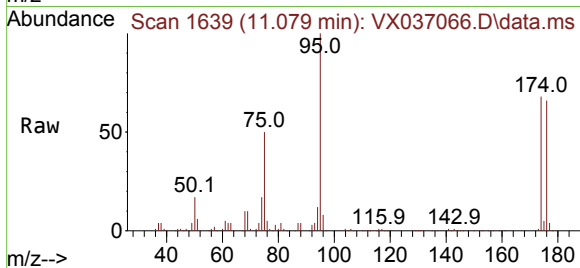




#81  
trans-1,4-Dichloro-2-butene  
Concen: 74.992 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX037066.D  
Acq: 17 Aug 2023 18:05

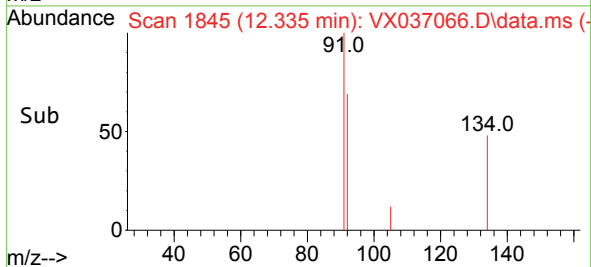
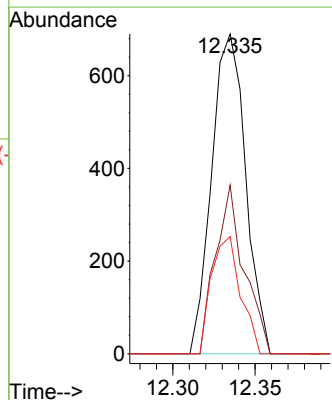
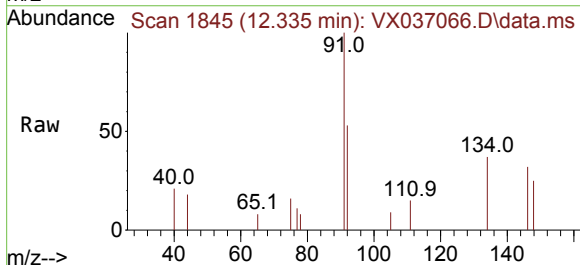
Instrument :  
MSVOA\_X  
ClientSampleId :  
BLK

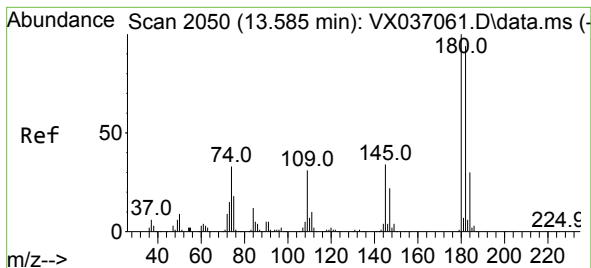
Tgt Ion: 75 Resp: 55593  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#89  
n-Butylbenzene  
Concen: 0.212 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.006 min  
Lab File: VX037066.D  
Acq: 17 Aug 2023 18:05

Tgt Ion: 91 Resp: 992  
Ion Ratio Lower Upper  
91 100  
92 44.7 27.4 82.0  
134 31.4 12.6 37.8





#93

1,2,4-Trichlorobenzene

Concen: 0.255 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX037066.D

Acq: 17 Aug 2023 18:05

Instrument :

MSVOA\_X

ClientSampleId :

BLK

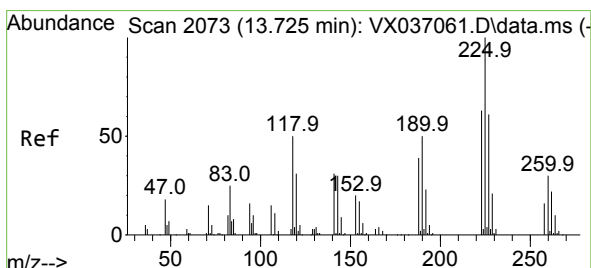
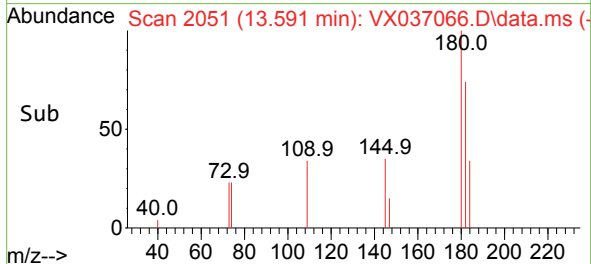
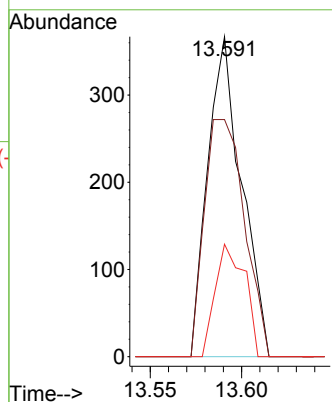
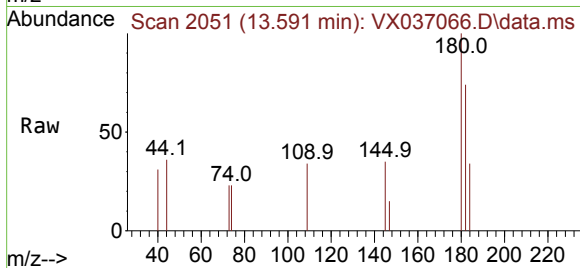
Tgt Ion:180 Resp: 473

Ion Ratio Lower Upper

180 100

182 87.7 48.3 144.8

145 30.4 18.0 54.0



#94

Hexachlorobutadiene

Concen: 0.625 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX037066.D

Acq: 17 Aug 2023 18:05

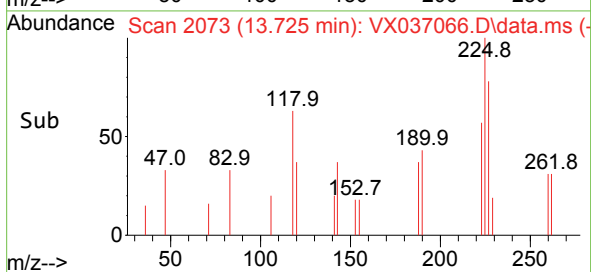
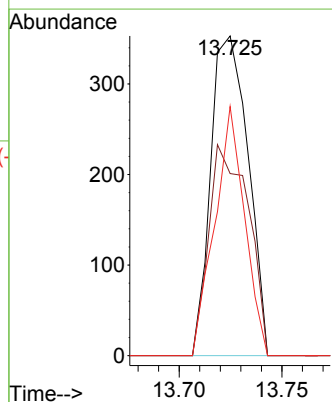
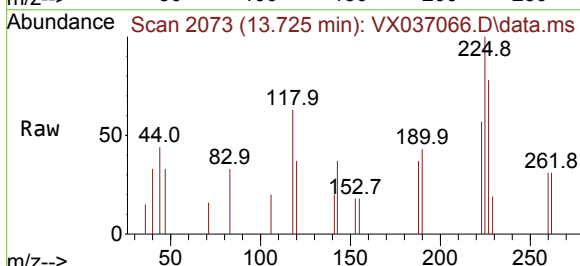
Tgt Ion:225 Resp: 447

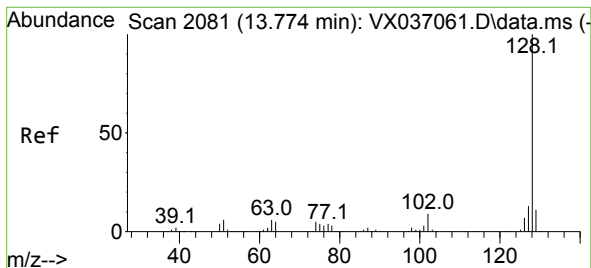
Ion Ratio Lower Upper

225 100

223 69.8 31.1 93.2

227 62.2 32.5 97.5





#95

Naphthalene

Concen: 0.771 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX037066.D

Acq: 17 Aug 2023 18:05

Instrument :

MSVOA\_X

ClientSampleId :

BLK

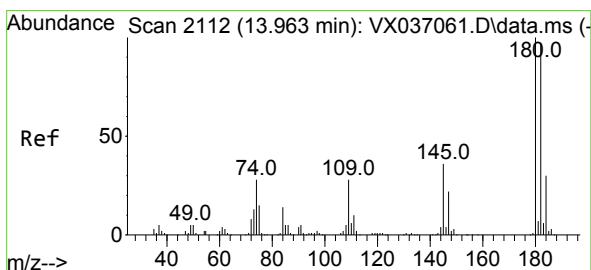
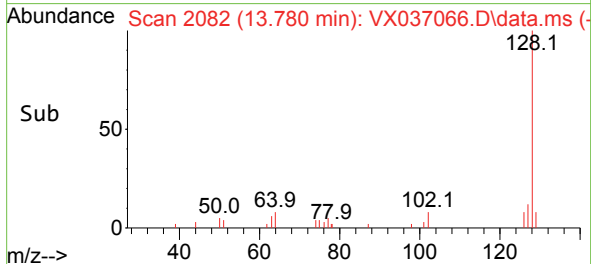
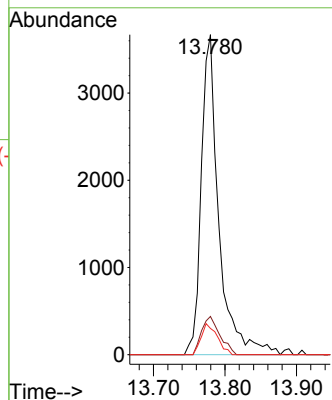
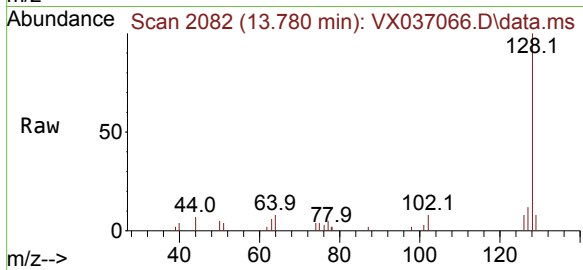
Tgt Ion:128 Resp: 6252

Ion Ratio Lower Upper

128 100

127 12.4 10.3 15.5

129 8.9 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 0.218 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX037066.D

Acq: 17 Aug 2023 18:05

Tgt Ion:180 Resp: 401

Ion Ratio Lower Upper

180 100

182 69.3 46.9 140.6

145 25.2 17.8 53.5

