

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081023\  
 Data File : VX036903.D  
 Acq On : 10 Aug 2023 10:24  
 Operator : JC/MD  
 Sample : VX0810MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 11 01:41:30 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 21 12:14:12 2023  
 Response via : Initial Calibration

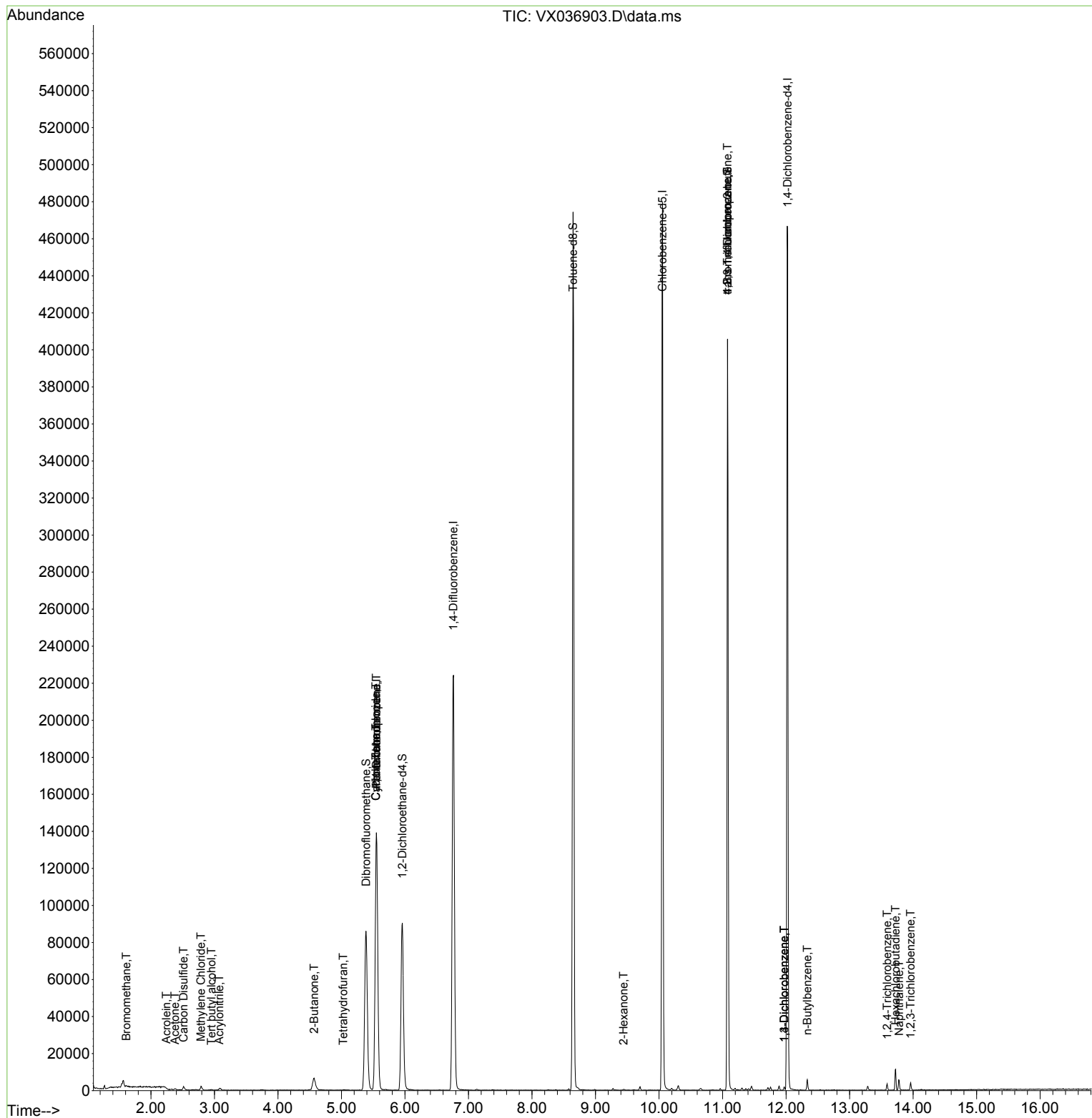
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 129418   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 235480   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 220966   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 98579    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 90050    | 47.025   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 94.060%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 76856    | 47.484   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 94.960%  |
| 50) Toluene-d8                | 8.647  | 98    | 281655   | 49.071   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 98.140%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 109274   | 50.461   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 100.920% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Bromomethane               | 1.611  | 94    | 212      | 0.224    | ug/l   | 87       |
| 11) Tert butyl alcohol        | 2.953  | 59    | 293      | 0.646    | ug/l # | 78       |
| 13) Acrolein                  | 2.239  | 56    | 278      | 1.074    | ug/l # | 39       |
| 15) Acrylonitrile             | 3.075  | 53    | 454      | 0.498    | ug/l # | 86       |
| 16) Acetone                   | 2.380  | 43    | 729      | 0.917    | ug/l # | 88       |
| 17) Carbon Disulfide          | 2.514  | 76    | 2179     | 0.545    | ug/l # | 94       |
| 20) Methylene Chloride        | 2.788  | 84    | 997      | 0.564    | ug/l # | 85       |
| 25) 2-Butanone                | 4.568  | 43    | 505      | 0.392    | ug/l   | 90       |
| 29) Tetrahydrofuran           | 5.026  | 42    | 213      | 0.256    | ug/l # | 51       |
| 31) Cyclohexane               | 5.544  | 56    | 2758     | 1.040    | ug/l # | 4        |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 10792    | 4.473    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 13370    | 5.213    | ug/l # | 14       |
| 59) 2-Hexanone                | 9.439  | 43    | 459      | 0.238    | ug/l   | 85       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 56054    | 24.175   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 56054    | 54.794   | ug/l # | 5        |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146   | 711      | 0.207    | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 11.969 | 146   | 711      | 0.208    | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.335 | 91    | 2168     | 0.352    | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 1040     | 0.508    | ug/l   | 92       |
| 94) Hexachlorobutadiene       | 13.725 | 225   | 1664     | 1.966    | ug/l   | 96       |
| 95) Naphthalene               | 13.780 | 128   | 4125     | 0.579    | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180   | 1192     | 0.591    | ug/l   | 96       |
| -----                         |        |       |          |          |        |          |

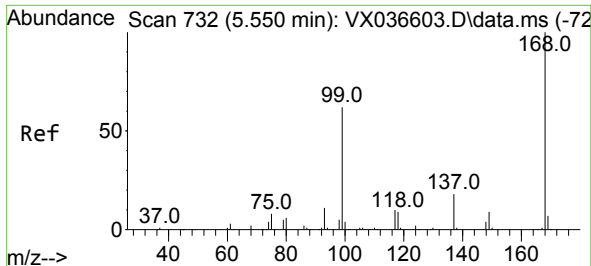
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VX0810MBL01  
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

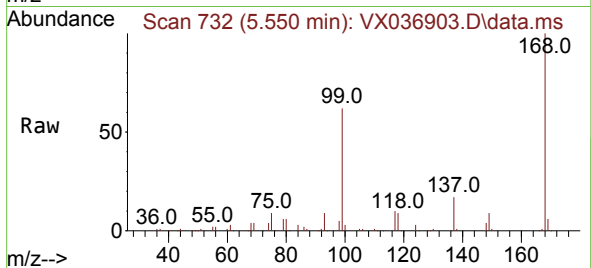
Quant Time: Aug 11 01:41:30 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 21 12:14:12 2023  
Response via : Initial Calibration



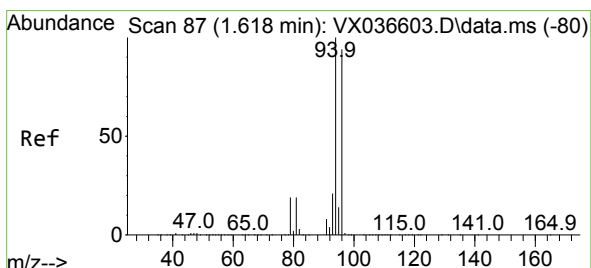
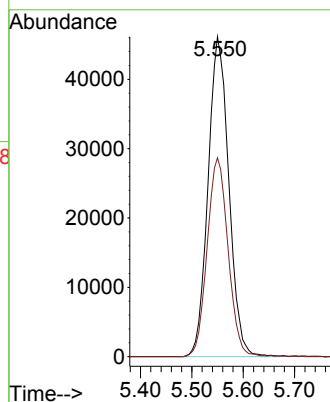
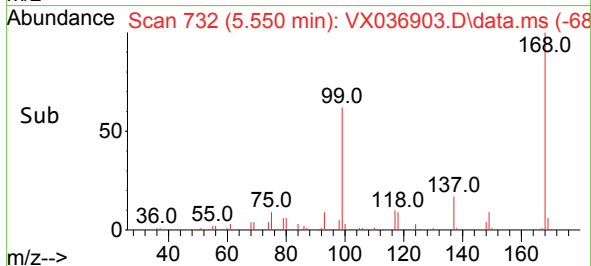


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

Instrument :  
MSVOA\_X  
ClientSampleId :

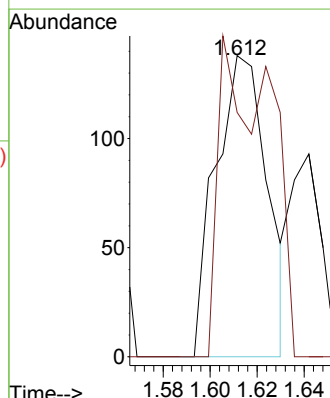
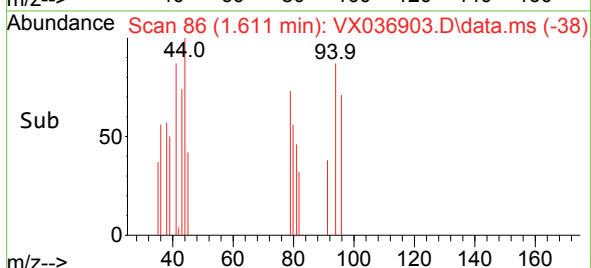
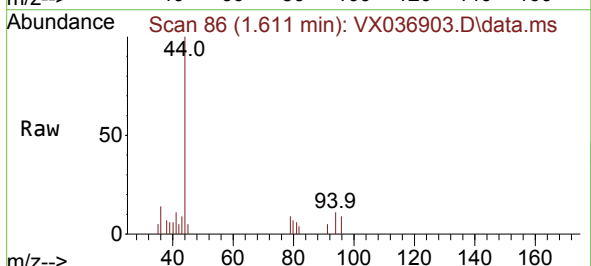


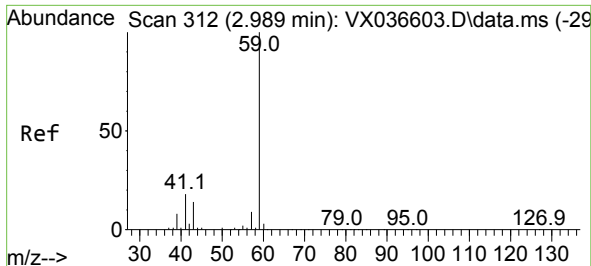
Tgt Ion:168 Resp: 129418  
Ion Ratio Lower Upper  
168 100  
99 62.2 56.6 85.0



#5  
Bromomethane  
Concen: 0.224 ug/l  
RT: 1.611 min Scan# 86  
Delta R.T. -0.006 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

Tgt Ion: 94 Resp: 212  
Ion Ratio Lower Upper  
94 100  
96 81.2 74.6 111.8





#11

Tert butyl alcohol

Concen: 0.646 ug/l

RT: 2.953 min Scan# 306

Delta R.T. -0.036 min

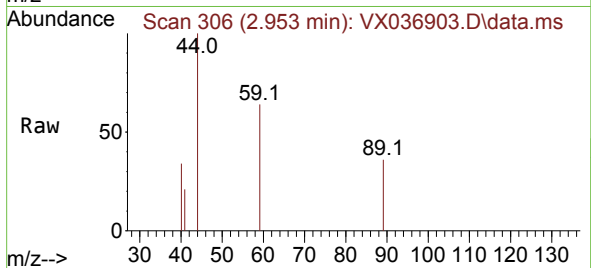
Lab File: VX036903.D

Acq: 10 Aug 2023 10:24

Instrument :

MSVOA\_X

ClientSampleId :

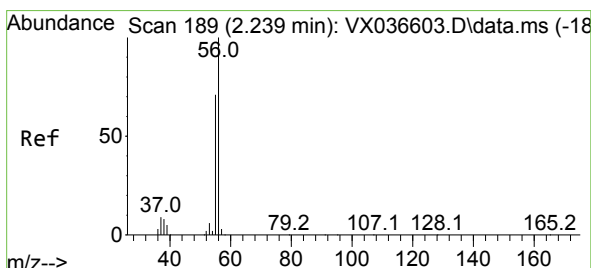
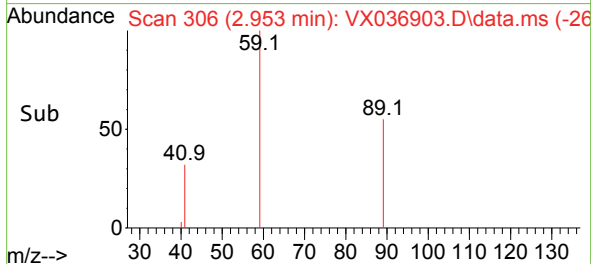
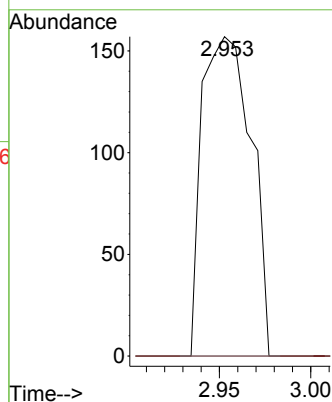


Tgt Ion: 59 Resp: 293

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#13

Acrolein

Concen: 1.074 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX036903.D

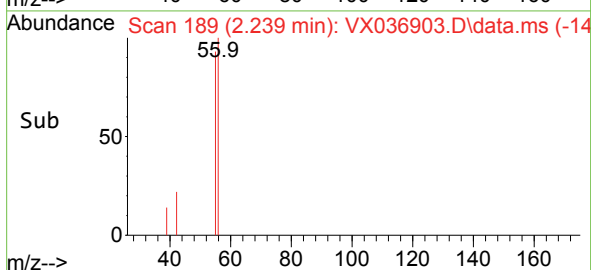
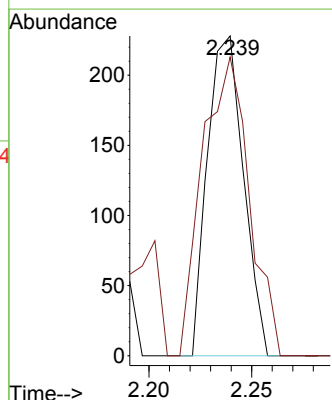
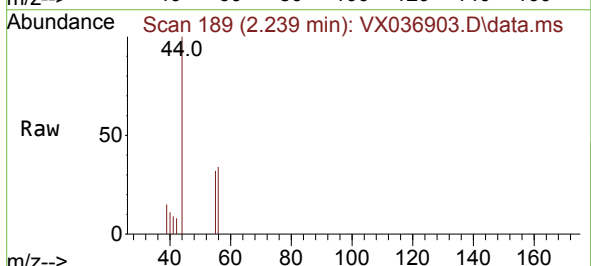
Acq: 10 Aug 2023 10:24

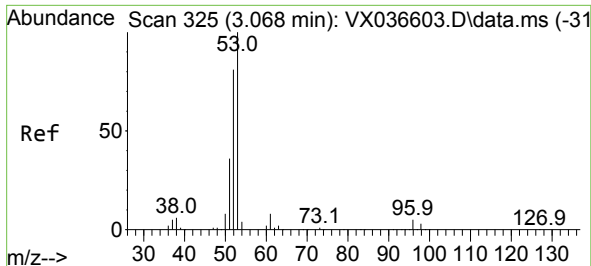
Tgt Ion: 56 Resp: 278

Ion Ratio Lower Upper

56 100

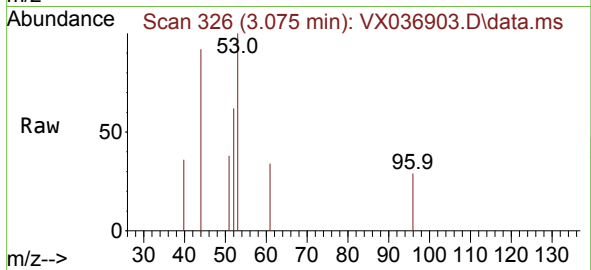
55 121.6 57.1 85.7#



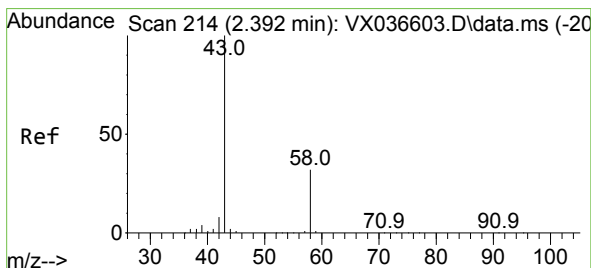
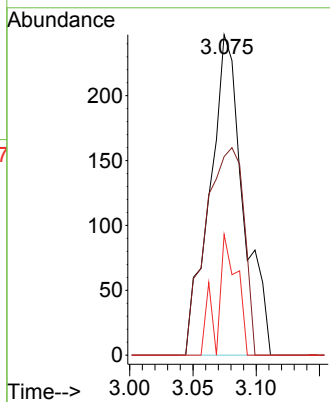
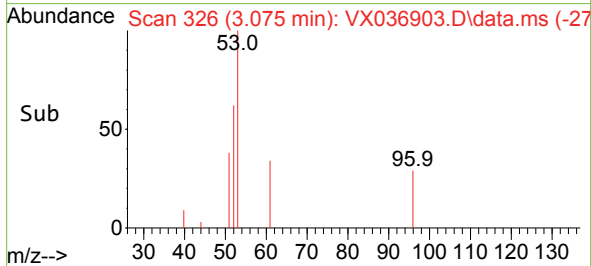


#15  
Acrylonitrile  
Concen: 0.498 ug/l  
RT: 3.075 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

Instrument :  
MSVOA\_X  
ClientSampleId :

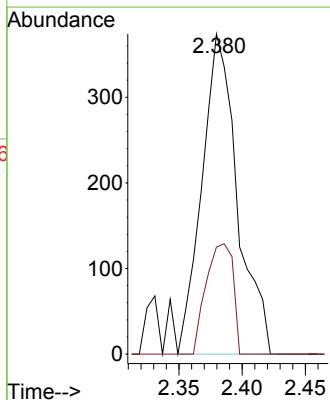
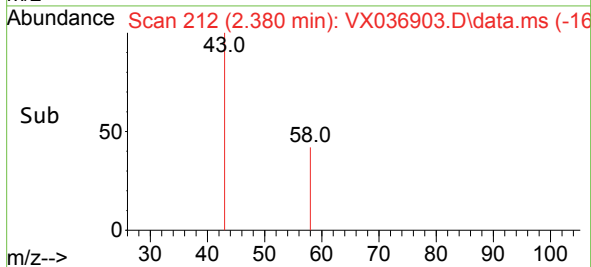
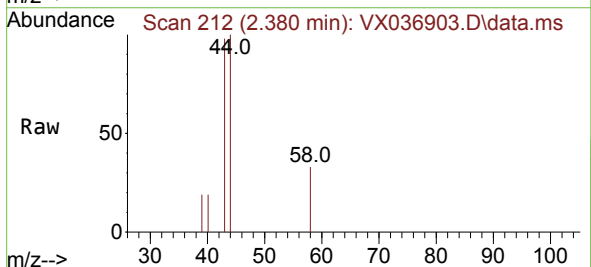


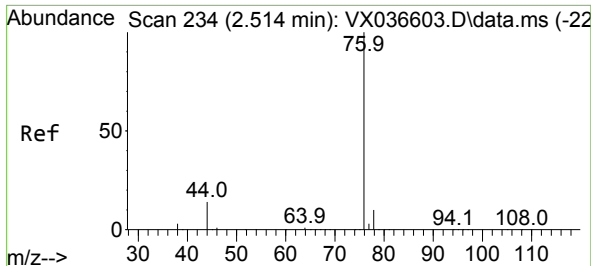
Tgt Ion: 53 Resp: 454  
Ion Ratio Lower Upper  
53 100  
52 74.4 66.0 99.0  
51 22.2 29.8 44.6#



#16  
Acetone  
Concen: 0.917 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.012 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

Tgt Ion: 43 Resp: 729  
Ion Ratio Lower Upper  
43 100  
58 33.4 21.9 32.9#





#17

Carbon Disulfide

Concen: 0.545 ug/l

RT: 2.514 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX036903.D

Acq: 10 Aug 2023 10:24

Instrument :

MSVOA\_X

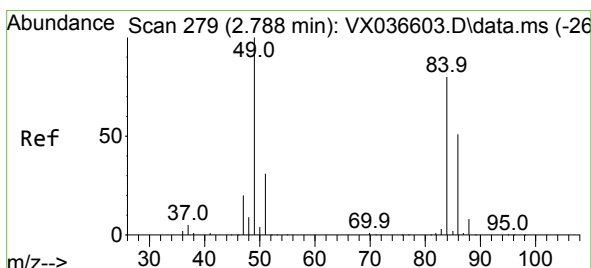
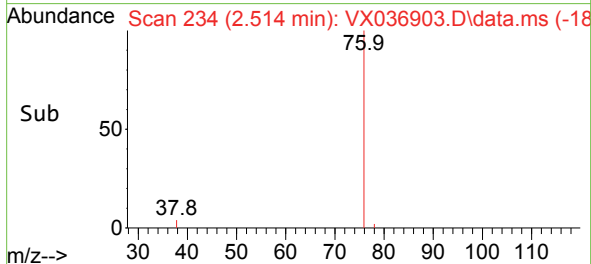
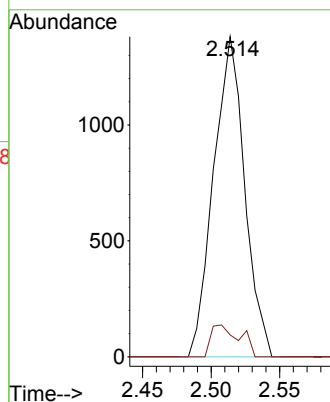
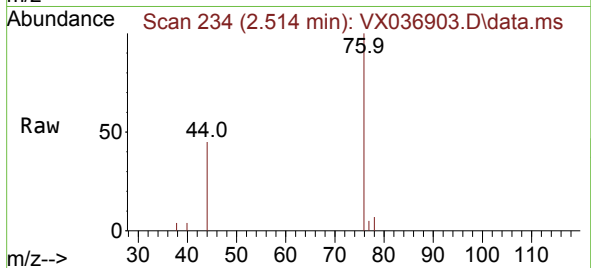
ClientSampleId :

Tgt Ion: 76 Resp: 2179

Ion Ratio Lower Upper

76 100

78 6.8 7.0 10.6#



#20

Methylene Chloride

Concen: 0.564 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX036903.D

Acq: 10 Aug 2023 10:24

Tgt Ion: 84 Resp: 997

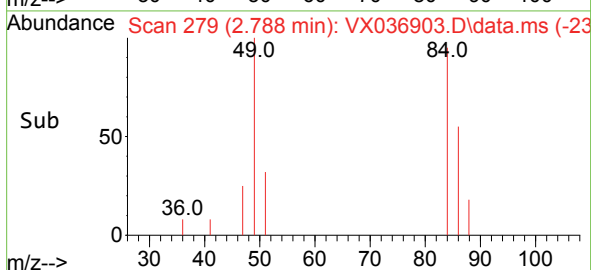
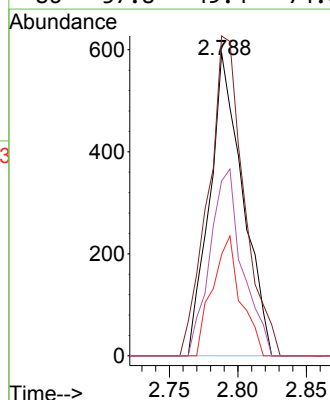
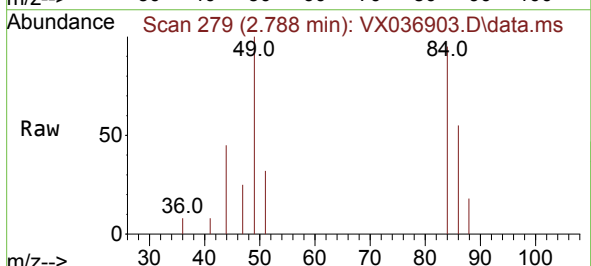
Ion Ratio Lower Upper

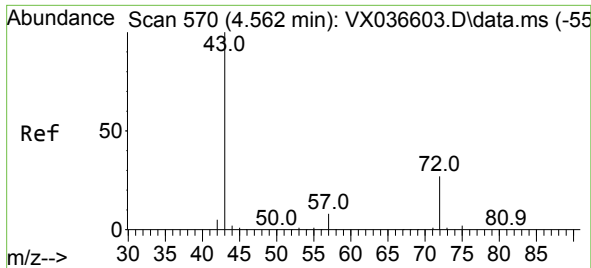
84 100

49 105.7 103.6 155.4

51 33.6 33.8 50.6#

86 57.8 49.4 74.0

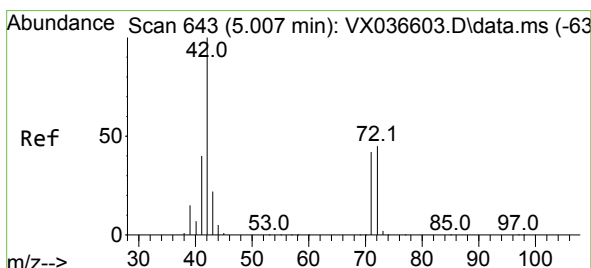
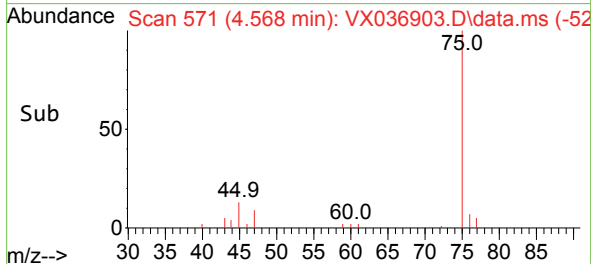
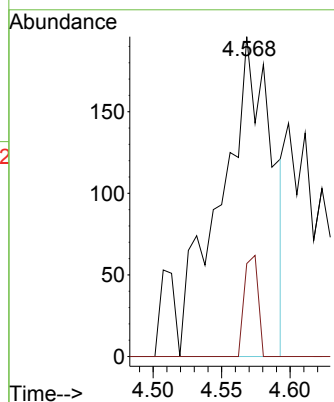
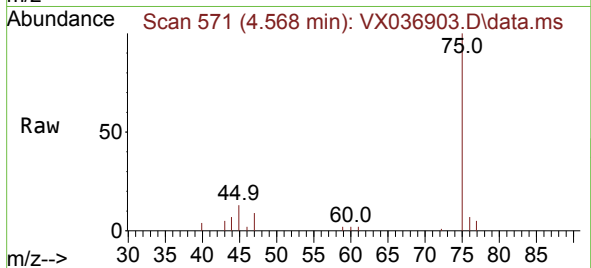




#25  
2-Butanone  
Concen: 0.392 ug/l  
RT: 4.568 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

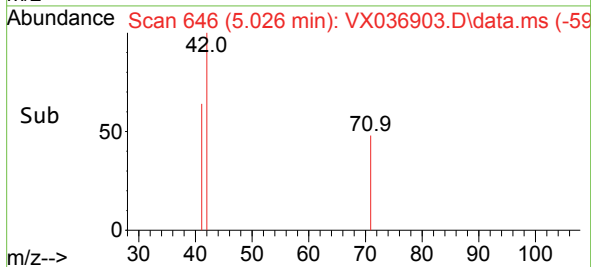
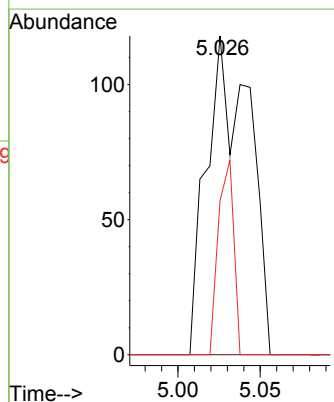
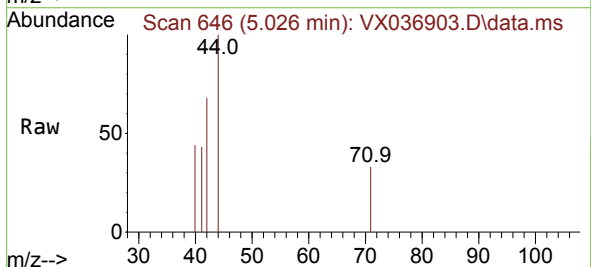
Instrument :  
MSVOA\_X  
ClientSampleId :

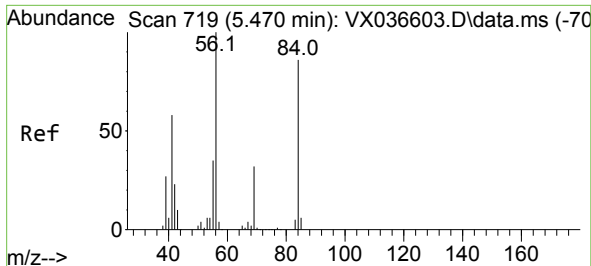
Tgt Ion: 43 Resp: 505  
Ion Ratio Lower Upper  
43 100  
72 29.1 19.4 29.2



#29  
Tetrahydrofuran  
Concen: 0.256 ug/l  
RT: 5.026 min Scan# 646  
Delta R.T. 0.018 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

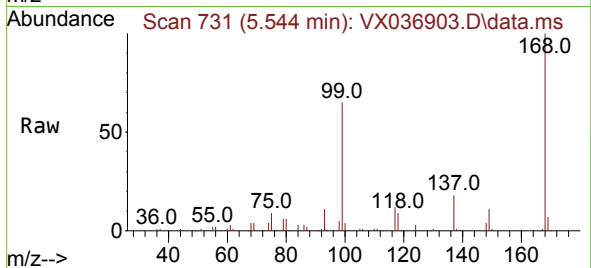
Tgt Ion: 42 Resp: 213  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.2 51.4#  
71 22.1 32.2 48.2#



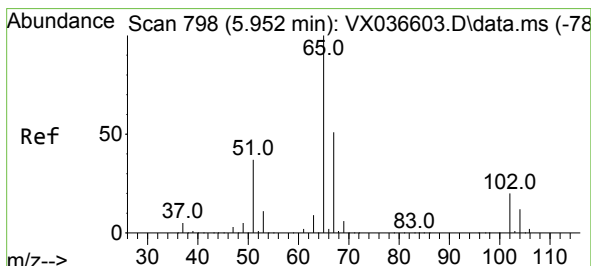
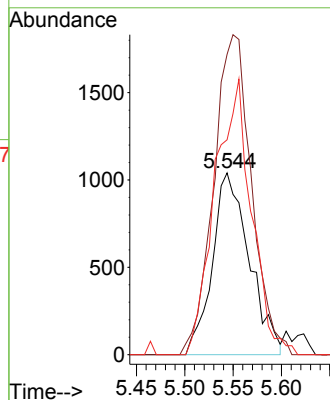
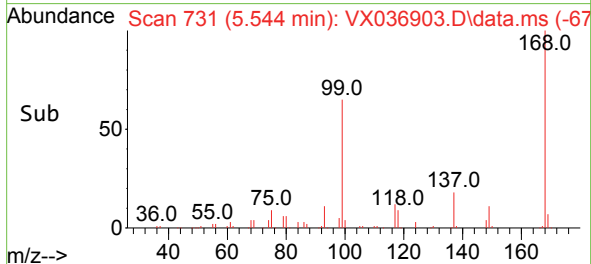


#31  
Cyclohexane  
Concen: 1.040 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

Instrument :  
MSVOA\_X  
ClientSampleId :

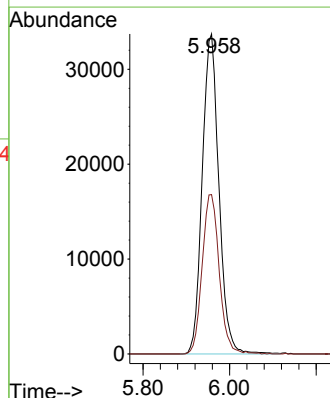
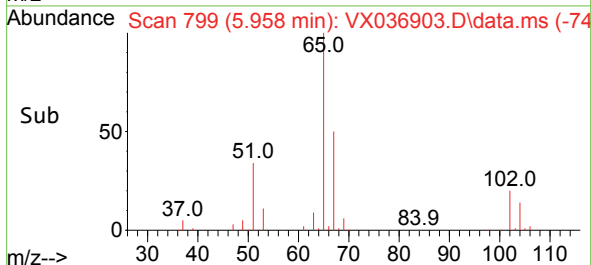
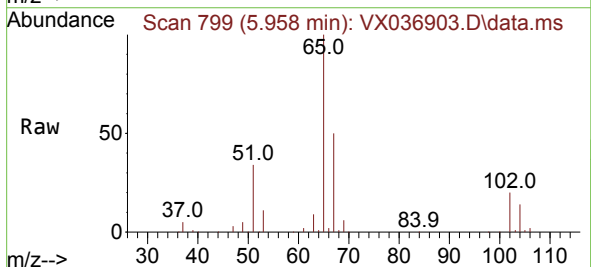


Tgt Ion: 56 Resp: 2758  
Ion Ratio Lower Upper  
56 100  
69 165.1 23.4 35.2#  
84 118.2 65.9 98.9#

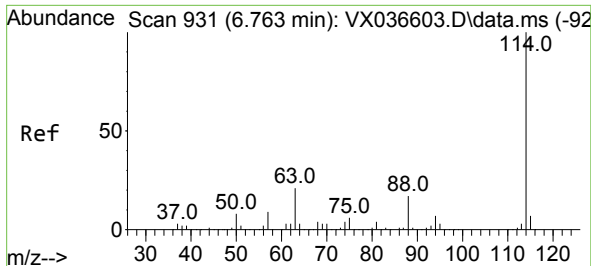


#33  
1,2-Dichloroethane-d4  
Concen: 47.025 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.006 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

Tgt Ion: 65 Resp: 90050  
Ion Ratio Lower Upper  
65 100  
67 51.1 0.0 100.2



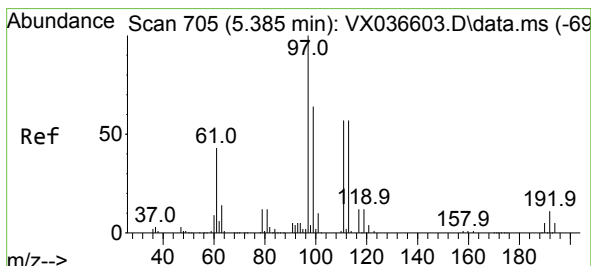
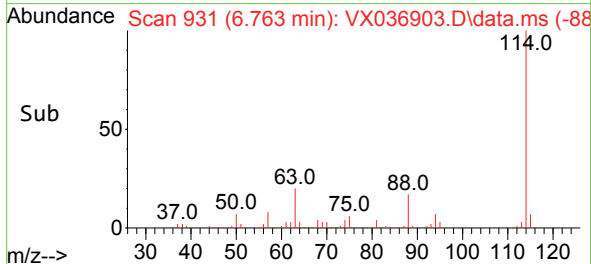
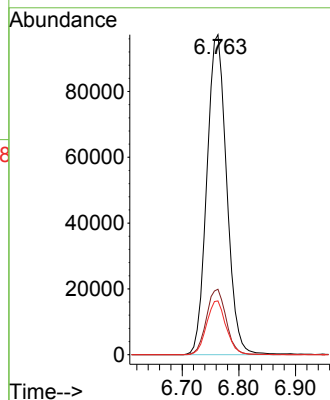
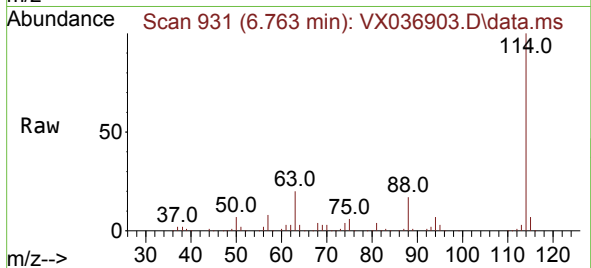




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

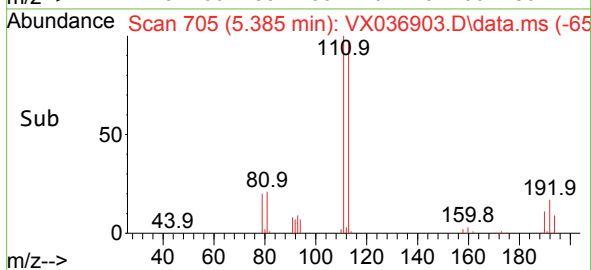
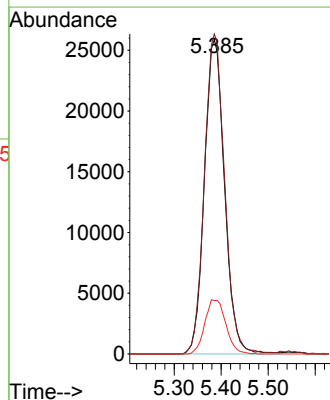
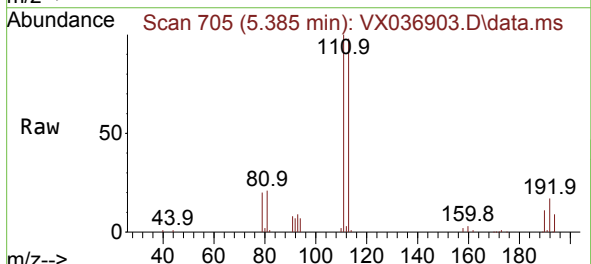
Instrument :  
MSVOA\_X  
ClientSampleId :

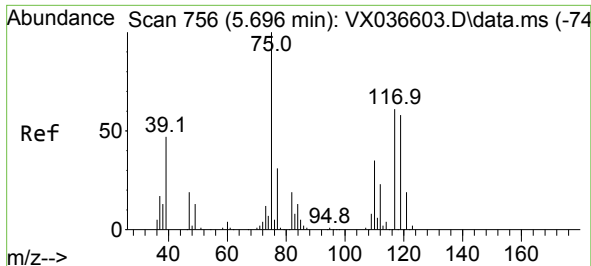
Tgt Ion:114 Resp: 235480  
Ion Ratio Lower Upper  
114 100  
63 20.5 0.0 45.0  
88 16.8 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 47.484 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

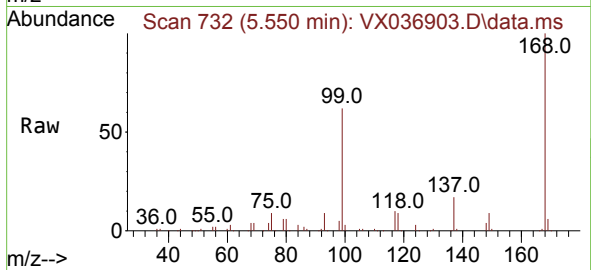
Tgt Ion:113 Resp: 76856  
Ion Ratio Lower Upper  
113 100  
111 102.2 82.9 124.3  
192 18.0 13.3 19.9



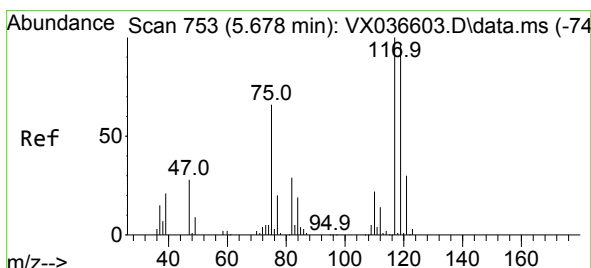
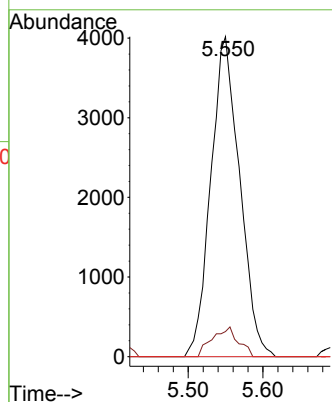
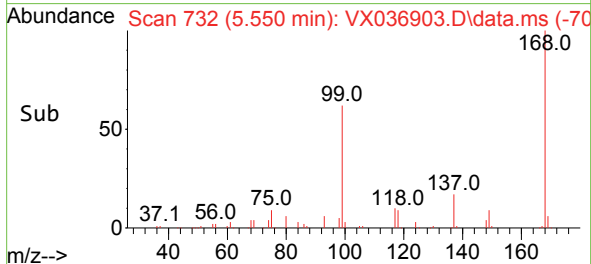


#36  
1,1-Dichloropropene  
Concen: 4.473 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

Instrument :  
MSVOA\_X  
ClientSampleId :

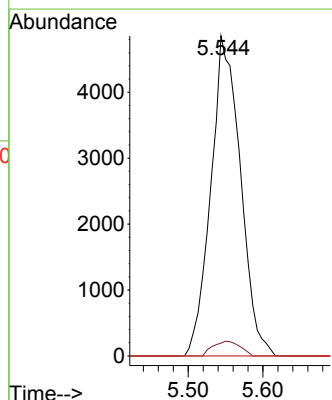
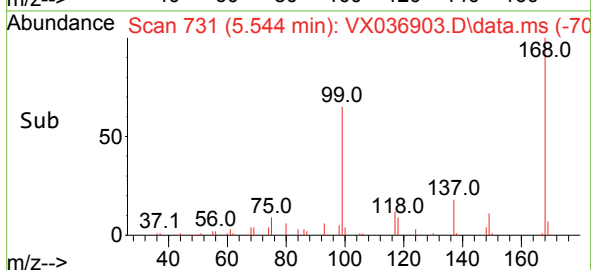
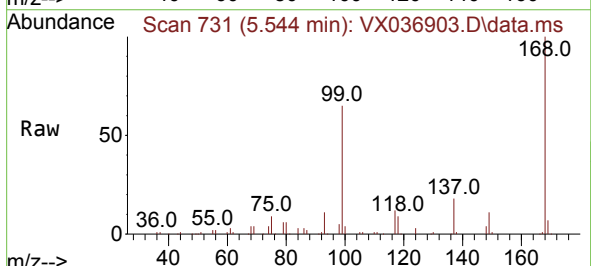


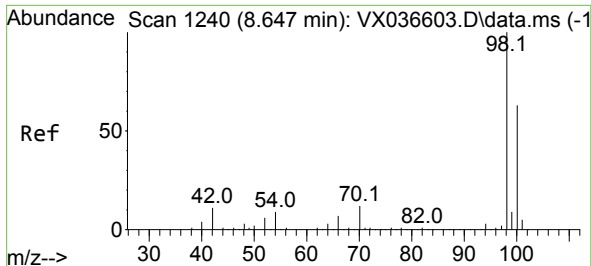
Tgt Ion: 75 Resp: 10792  
Ion Ratio Lower Upper  
75 100  
110 8.3 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 5.213 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.134 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

Tgt Ion: 117 Resp: 13370  
Ion Ratio Lower Upper  
117 100  
119 4.0 78.2 117.2#  
121 0.0 24.4 36.6#

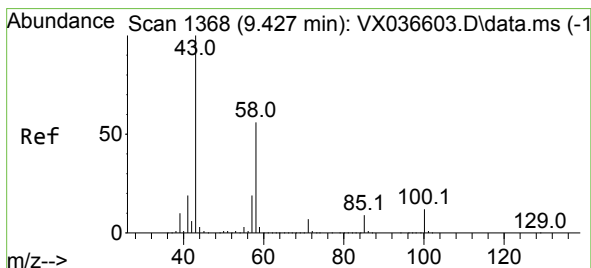
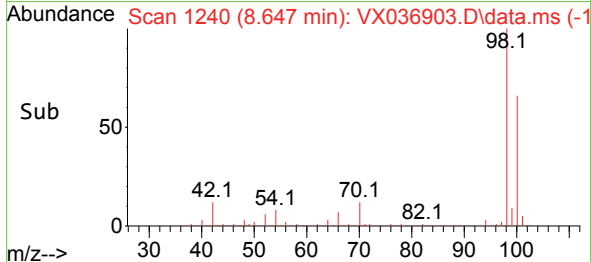
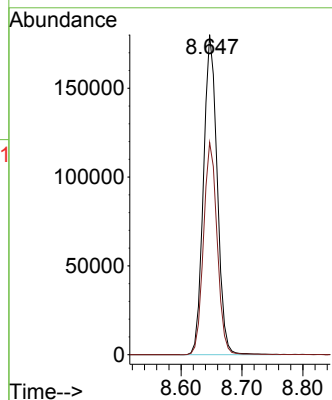
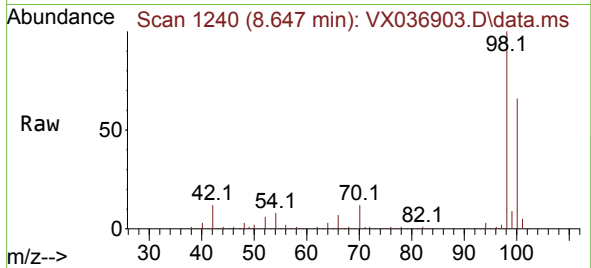




#50  
Toluene-d8  
Concen: 49.071 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

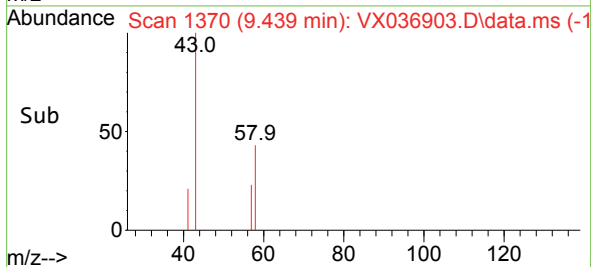
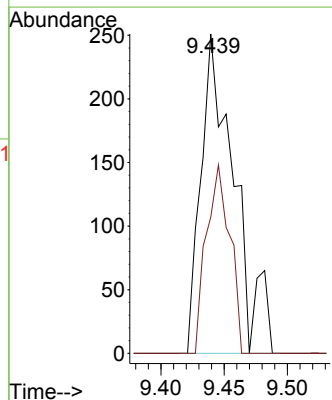
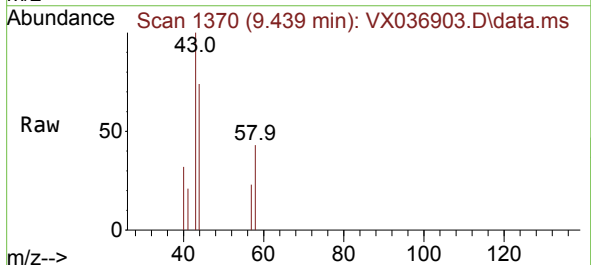
Instrument :  
MSVOA\_X  
ClientSampleId :

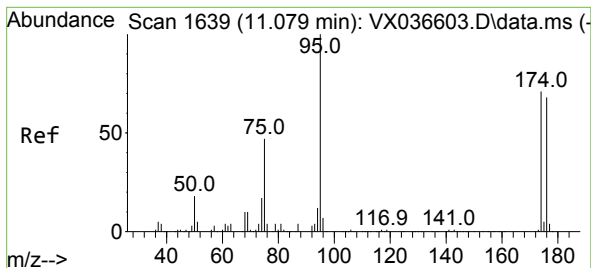
Tgt Ion: 98 Resp: 281655  
Ion Ratio Lower Upper  
98 100  
100 66.2 53.1 79.7



#59  
2-Hexanone  
Concen: 0.238 ug/l  
RT: 9.439 min Scan# 1370  
Delta R.T. 0.012 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

Tgt Ion: 43 Resp: 459  
Ion Ratio Lower Upper  
43 100  
58 41.6 26.2 78.5

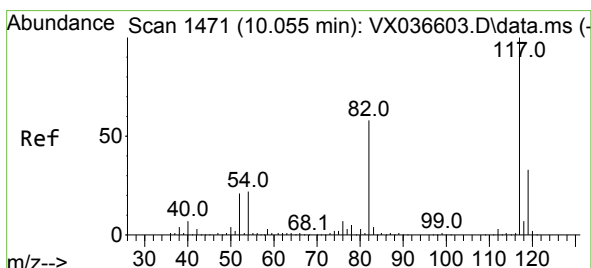
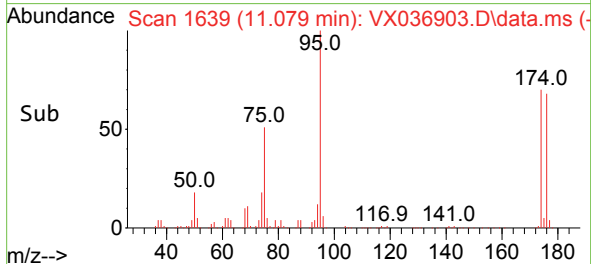
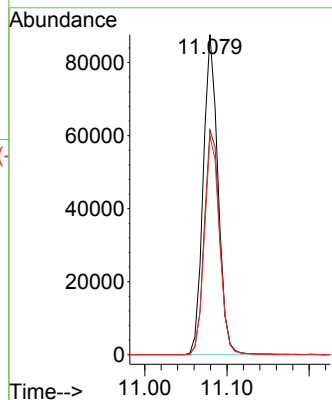
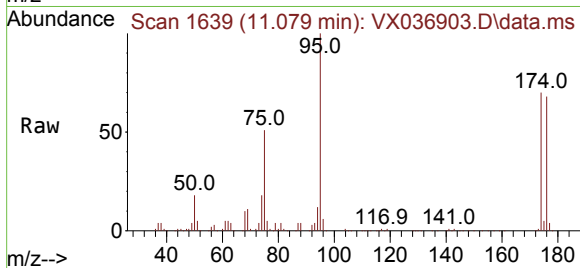




#62  
4-Bromofluorobenzene  
Concen: 50.461 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

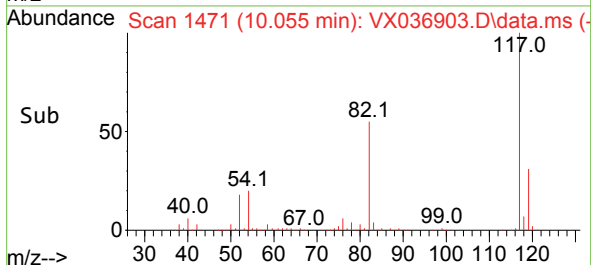
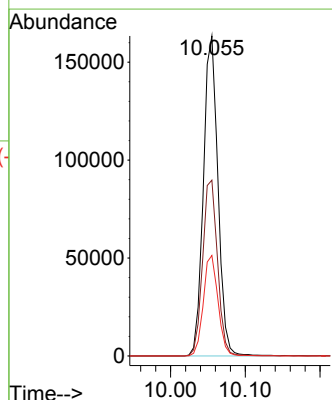
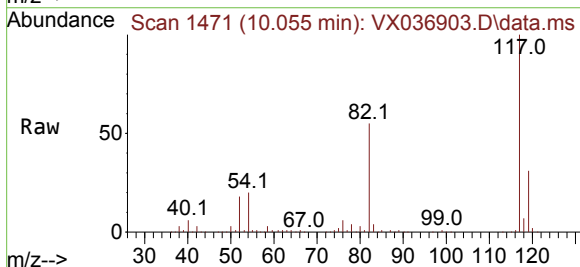
Instrument :  
MSVOA\_X  
ClientSampleId :

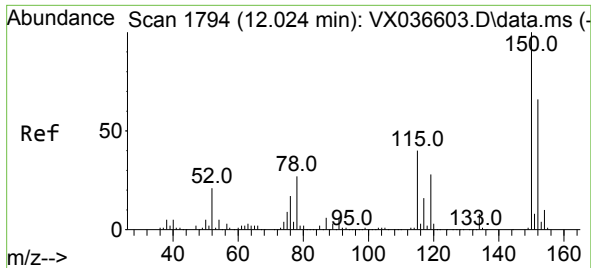
Tgt Ion: 95 Resp: 109274  
Ion Ratio Lower Upper  
95 100  
174 73.5 0.0 135.6  
176 69.9 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

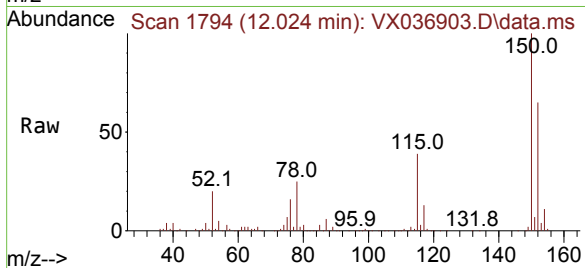
Tgt Ion: 117 Resp: 220966  
Ion Ratio Lower Upper  
117 100  
82 55.0 46.2 69.4  
119 31.4 25.5 38.3



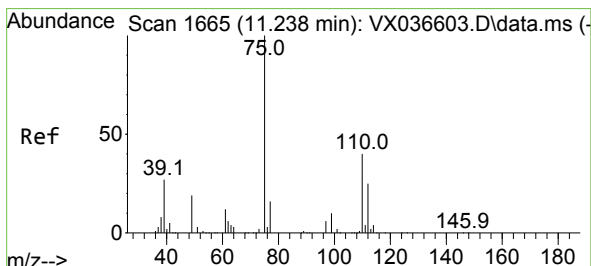
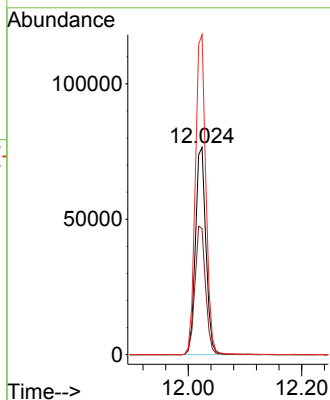
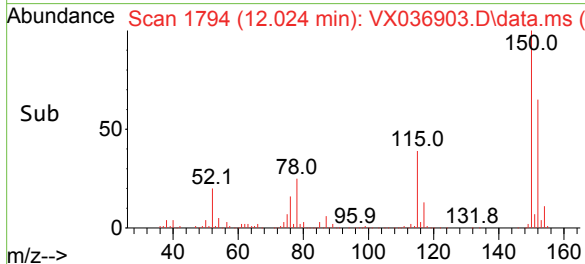


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

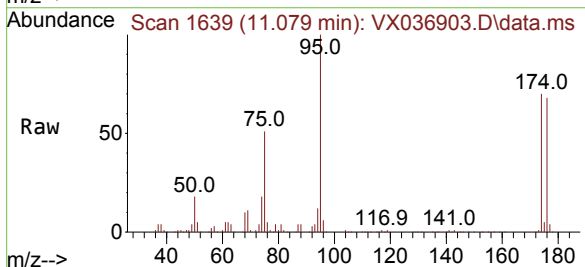
Instrument :  
MSVOA\_X  
ClientSampleId :



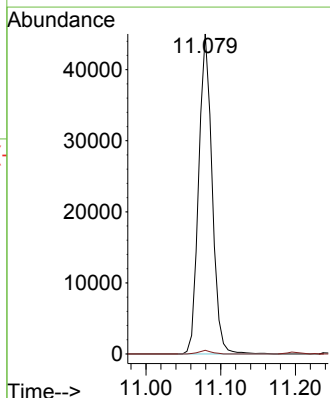
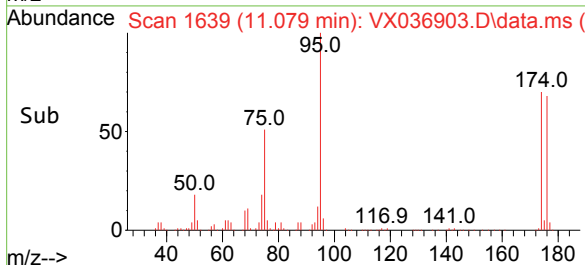
Tgt Ion:152 Resp: 98579  
Ion Ratio Lower Upper  
152 100  
115 62.5 43.3 129.9  
150 155.5 0.0 345.0

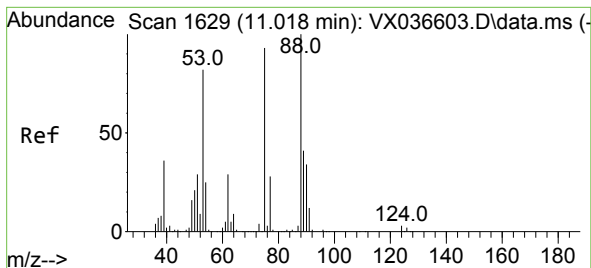


#76  
1,2,3-Trichloropropane  
Concen: 24.175 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24



Tgt Ion: 75 Resp: 56054  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.1 57.5#

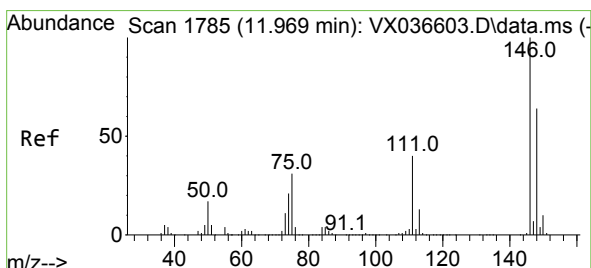
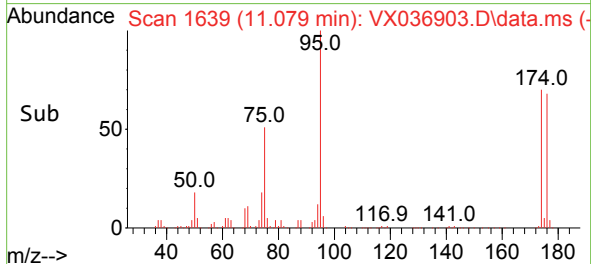
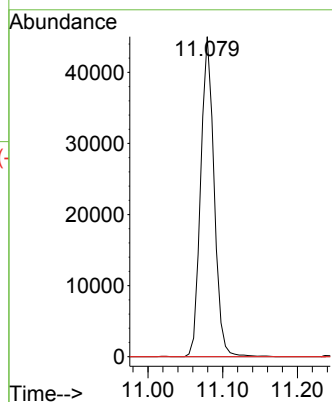
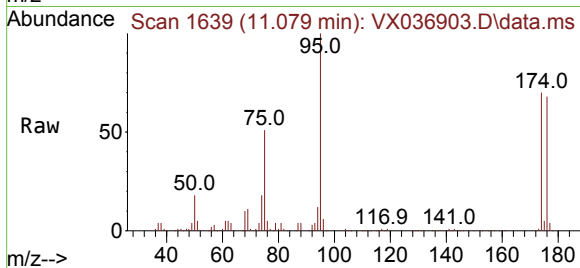




#81  
trans-1,4-Dichloro-2-butene  
Concen: 54.794 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

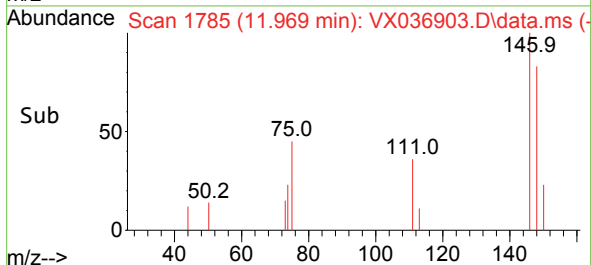
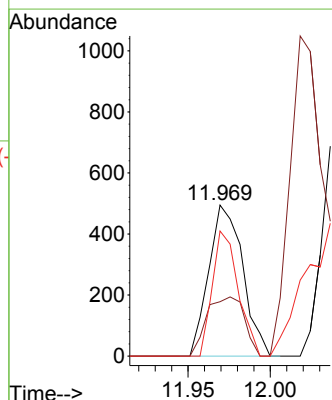
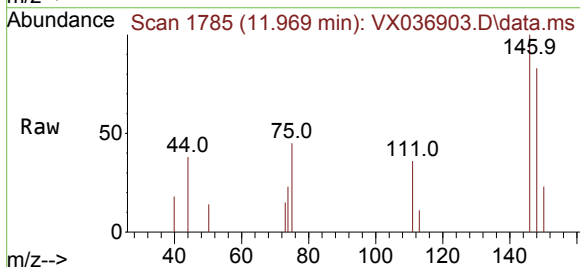
Instrument :  
MSVOA\_X  
ClientSampleId :

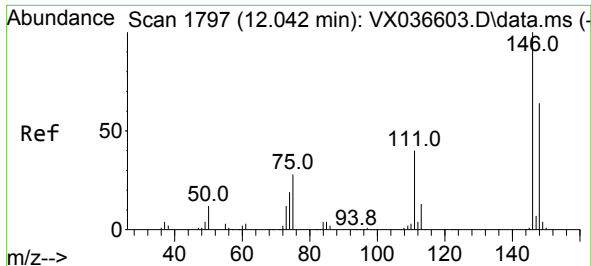
Tgt Ion: 75 Resp: 56054  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#87  
1,3-Dichlorobenzene  
Concen: 0.207 ug/l  
RT: 11.969 min Scan# 1785  
Delta R.T. 0.000 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

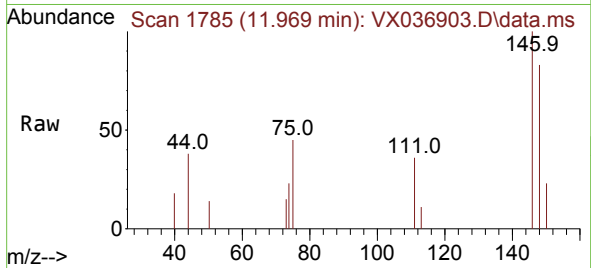
Tgt Ion: 146 Resp: 711  
Ion Ratio Lower Upper  
146 100  
111 43.2 22.1 66.1  
148 63.0 31.8 95.3



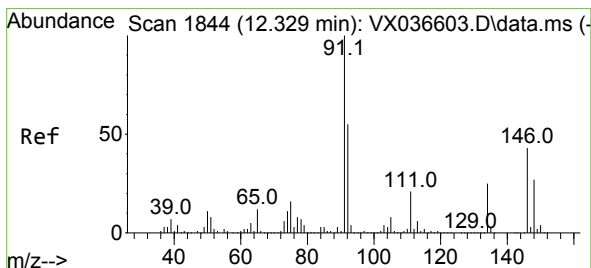
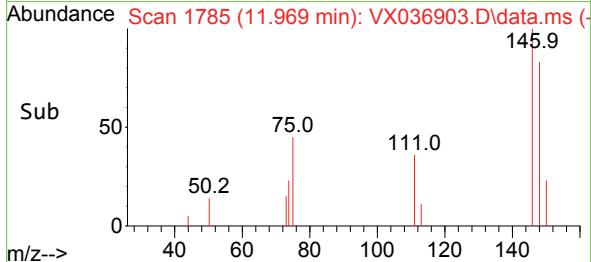
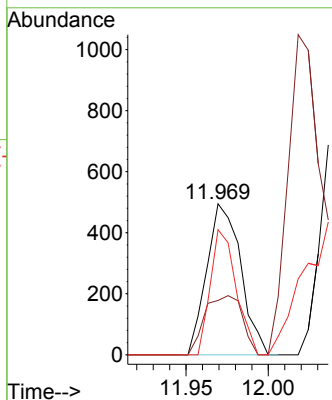


#88  
1,4-Dichlorobenzene  
Concen: 0.208 ug/l  
RT: 11.969 min Scan# 1797  
Delta R.T. -0.073 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

Instrument :  
MSVOA\_X  
ClientSampleId :

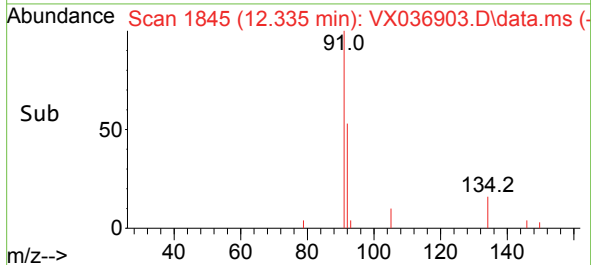
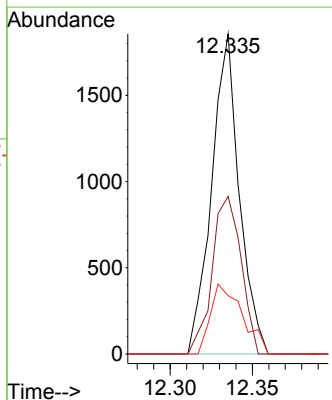
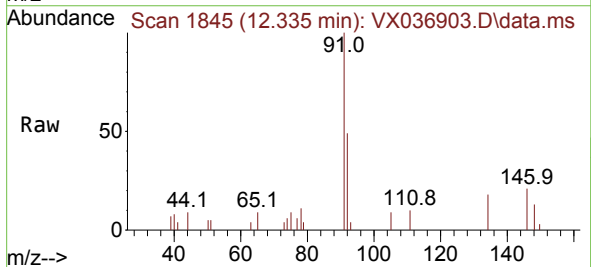


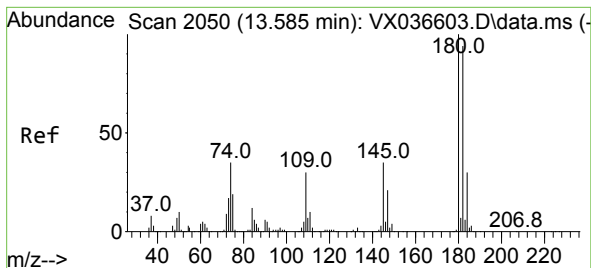
Tgt Ion:146 Resp: 711  
Ion Ratio Lower Upper  
146 100  
111 43.2 21.3 63.7  
148 63.0 31.8 95.4



#89  
n-Butylbenzene  
Concen: 0.352 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.006 min  
Lab File: VX036903.D  
Acq: 10 Aug 2023 10:24

Tgt Ion: 91 Resp: 2168  
Ion Ratio Lower Upper  
91 100  
92 51.5 27.4 82.0  
134 25.1 12.6 37.8





#93

1,2,4-Trichlorobenzene

Concen: 0.508 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX036903.D

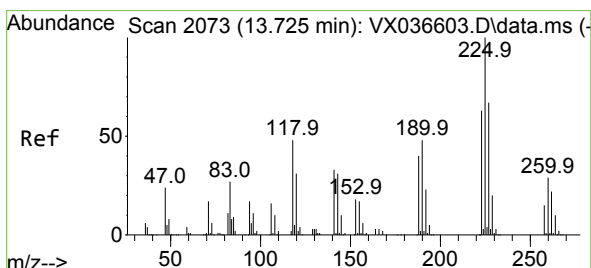
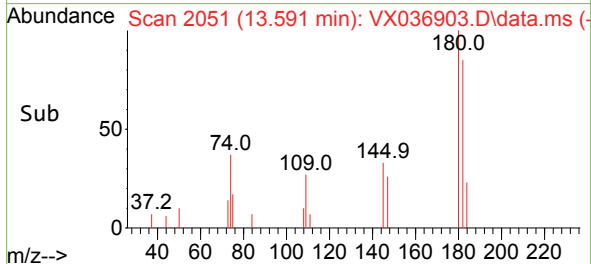
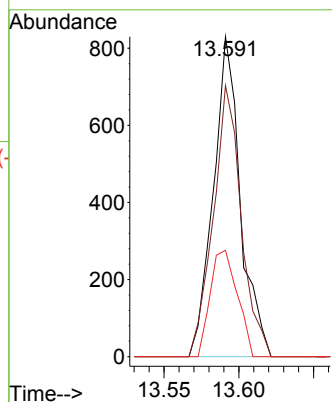
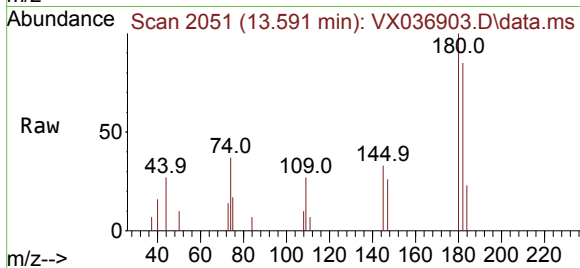
Acq: 10 Aug 2023 10:24

Instrument :

MSVOA\_X

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1040  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 87.6  | 48.3  | 144.8 |
| 145      | 33.4  | 18.0  | 54.0  |



#94

Hexachlorobutadiene

Concen: 1.966 ug/l

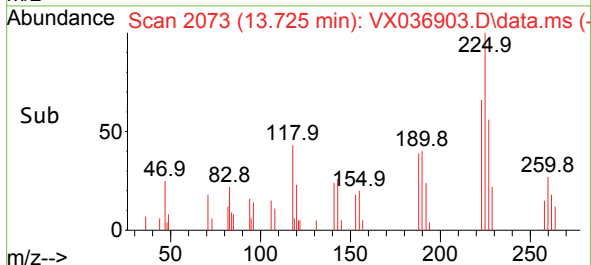
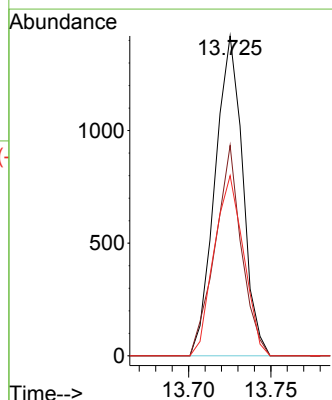
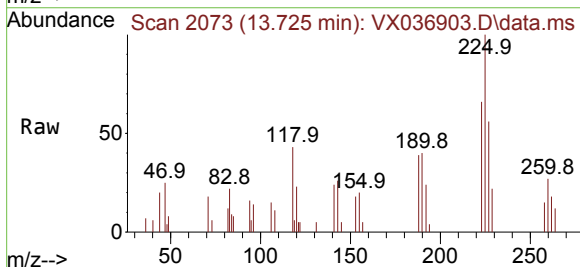
RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

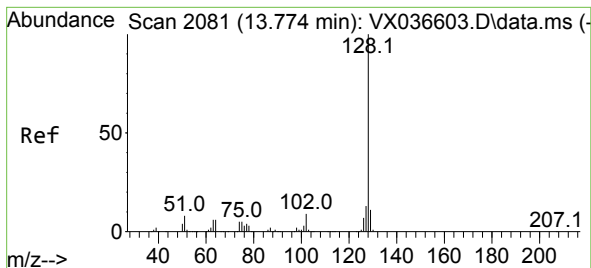
Lab File: VX036903.D

Acq: 10 Aug 2023 10:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 1664  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 63.0  | 31.1  | 93.2  |
| 227      | 60.2  | 32.5  | 97.5  |







#95

Naphthalene

Concen: 0.579 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX036903.D

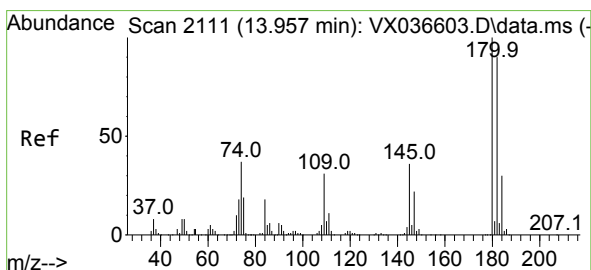
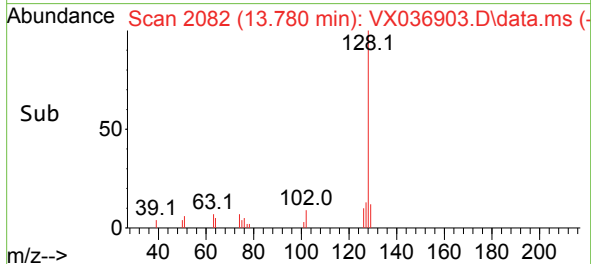
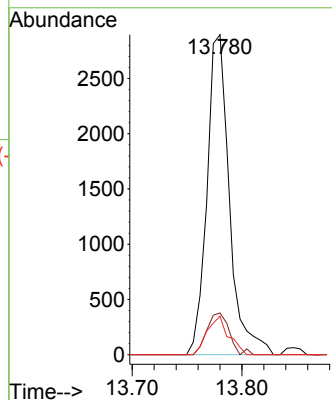
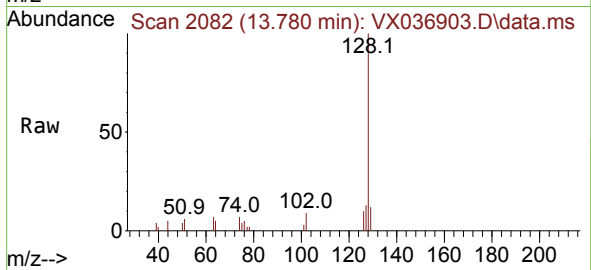
Acq: 10 Aug 2023 10:24

Instrument :

MSVOA\_X

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 4125      |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 127         | 13.0  | 10.3 15.5 |
| 129         | 11.5  | 8.8 13.2  |



#96

1,2,3-Trichlorobenzene

Concen: 0.591 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.006 min

Lab File: VX036903.D

Acq: 10 Aug 2023 10:24

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 1192       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 97.4  | 46.9 140.6 |
| 145         | 34.1  | 17.8 53.5  |

