

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101623\  
 Data File : VX038299.D  
 Acq On : 16 Oct 2023 13:24  
 Operator : JC/MD  
 Sample : VIBLK  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

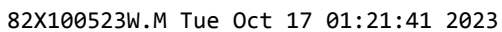
Instrument :  
 MSVOA\_X  
 ClientSampleId :

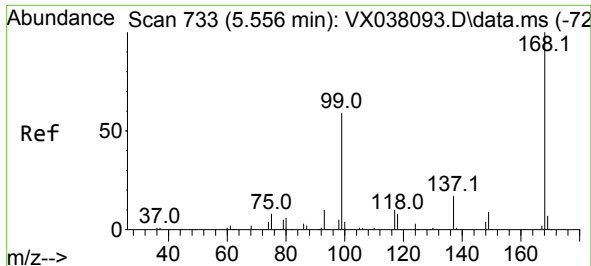
Quant Time: Oct 17 01:21:29 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 05 15:27:13 2023  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 5.544          | 168  | 140602     | 50.000    | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 253054     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 257600     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 136588     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 101460     | 44.864    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 89.720%   |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 78819      | 43.226    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 86.460%   |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 317635     | 45.587    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 91.180%#  |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 125574     | 47.538    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 95.080%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 5) Bromomethane               | 1.581          | 94   | 22         | Below Cal | #      | 3        |
| 6) Chloroethane               | 1.685          | 64   | 94         | Below Cal | #      | 43       |
| 13) Acrolein                  | 2.233          | 56   | 76         | 0.236     | ug/l # | 56       |
| 15) Acrylonitrile             | 3.062          | 53   | 288        | 0.280     | ug/l # | 90       |
| 16) Acetone                   | 2.374          | 43   | 643        | 0.681     | ug/l # | 86       |
| 17) Carbon Disulfide          | 2.514          | 76   | 1186       | 0.320     | ug/l # | 76       |
| 31) Cyclohexane               | 5.544          | 56   | 3378       | 1.379     | ug/l # | 9        |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 11958      | 4.756     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 14764      | 5.969     | ug/l # | 14       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 67837      | 21.847    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 67837      | 62.678    | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 13.597         | 180  | 707        | 0.244     | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725         | 225  | 321        | 0.275     | ug/l   | 95       |
| 95) Naphthalene               | 13.786         | 128  | 2021       | 0.200     | ug/l # | 92       |
| 96) 1,2,3-Trichlorobenzene    | 13.963         | 180  | 781        | 0.279     | ug/l   | 76       |
| -----                         |                |      |            |           |        |          |

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

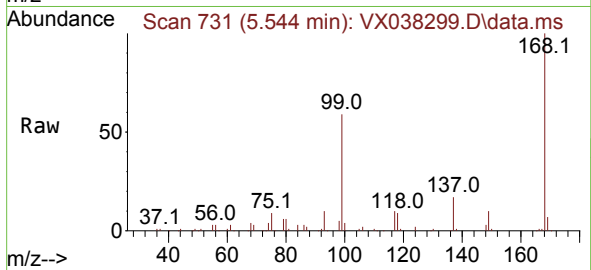
Quant Time: Oct 17 01:21:29 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 05 15:27:13 2023  
Response via : Initial Calibration



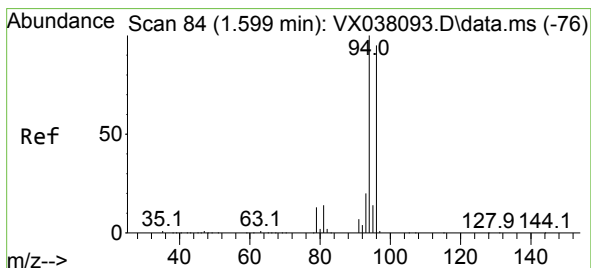
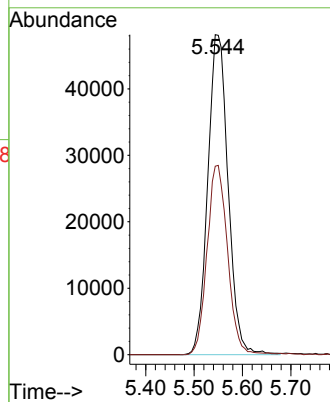
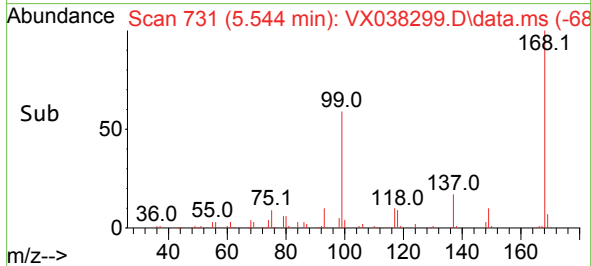


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

Instrument :  
MSVOA\_X  
ClientSampleId :

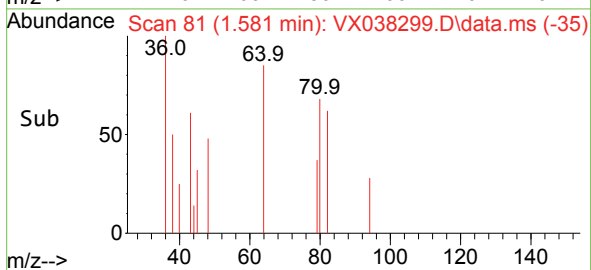
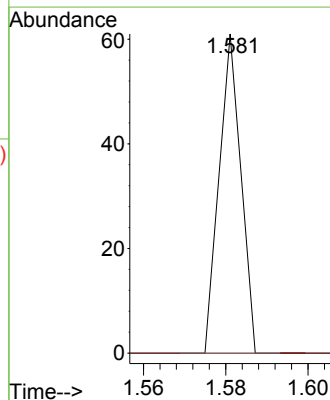
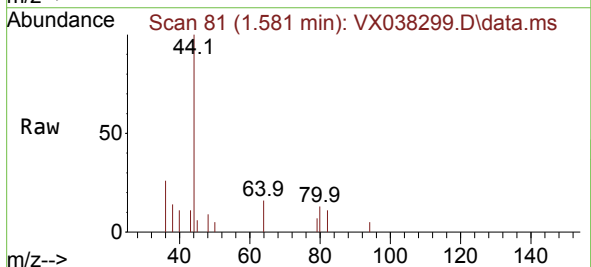


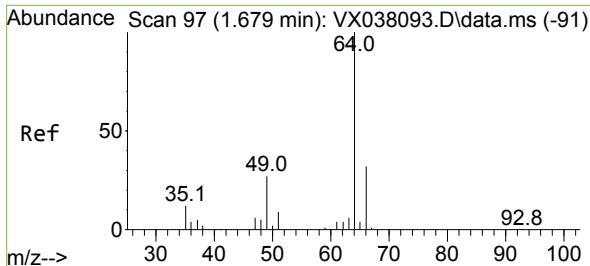
Tgt Ion:168 Resp: 140602  
Ion Ratio Lower Upper  
168 100  
99 58.9 56.6 85.0



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.581 min Scan# 81  
Delta R.T. -0.018 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

Tgt Ion: 94 Resp: 22  
Ion Ratio Lower Upper  
94 100  
96 0.0 74.6 111.8#

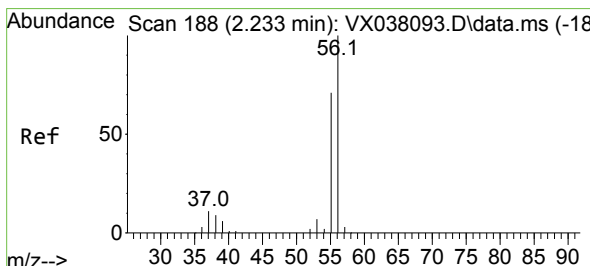
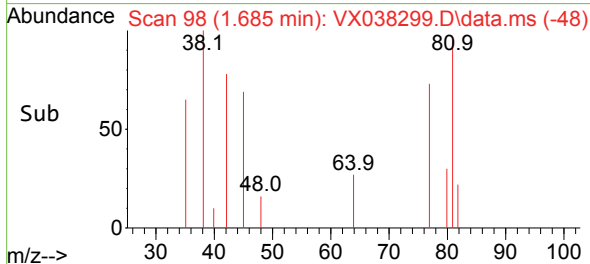
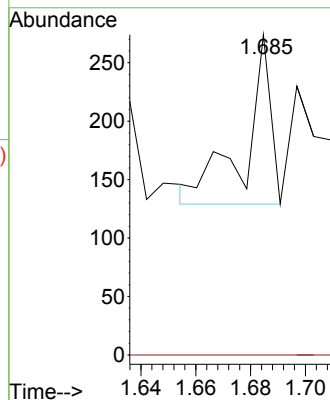
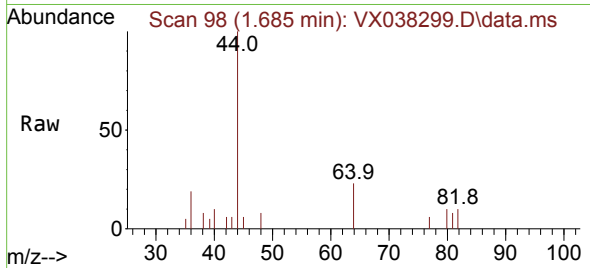




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.685 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

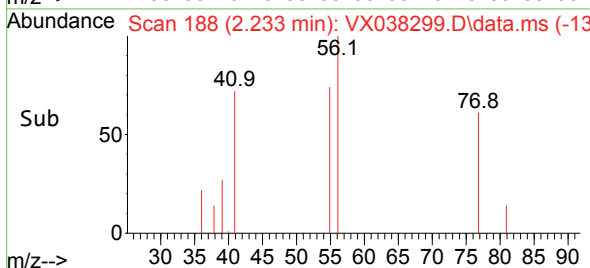
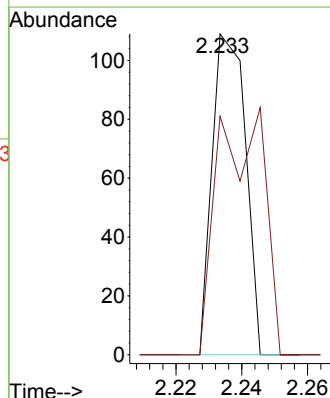
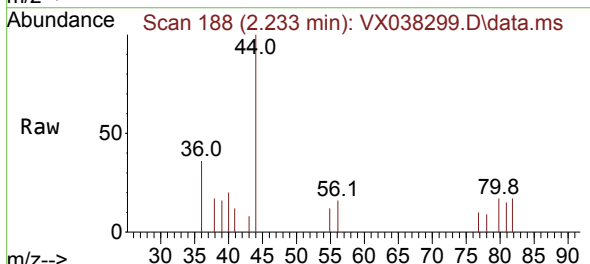
Instrument :  
MSVOA\_X  
ClientSampleId :

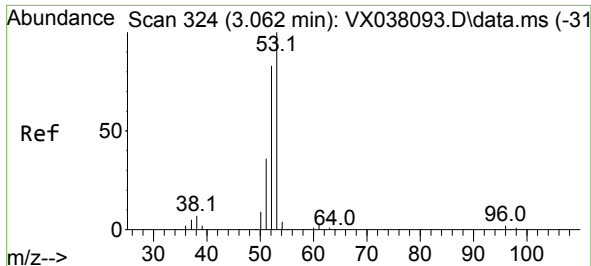
Tgt Ion: 64 Resp: 94  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#



#13  
Acrolein  
Concen: 0.236 ug/l  
RT: 2.233 min Scan# 188  
Delta R.T. 0.000 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

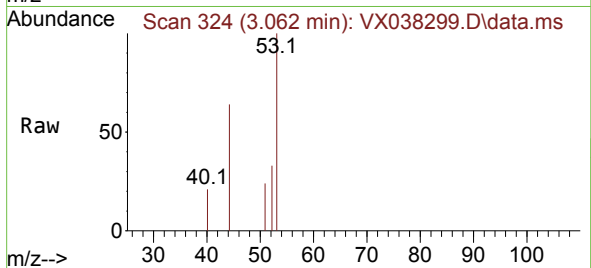
Tgt Ion: 56 Resp: 76  
Ion Ratio Lower Upper  
56 100  
55 107.9 57.1 85.7#



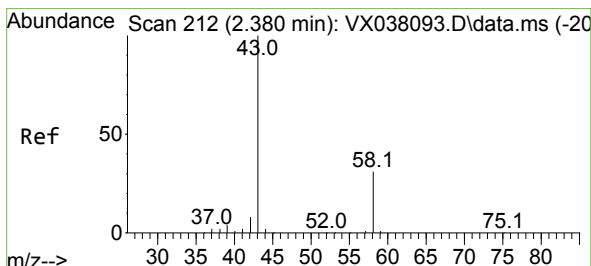
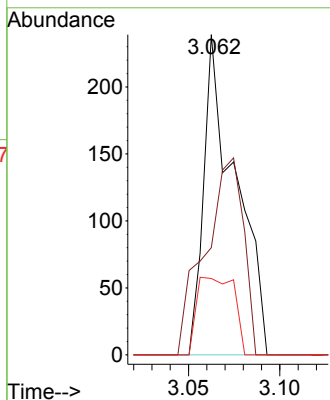
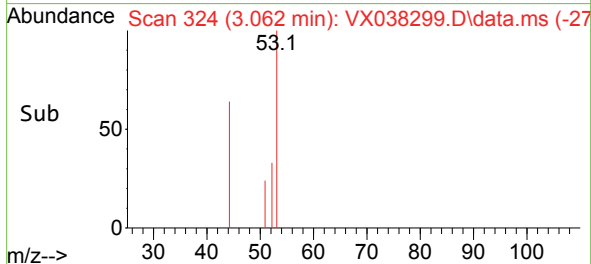


#15  
Acrylonitrile  
Concen: 0.280 ug/l  
RT: 3.062 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

Instrument :  
MSVOA\_X  
ClientSampleId :

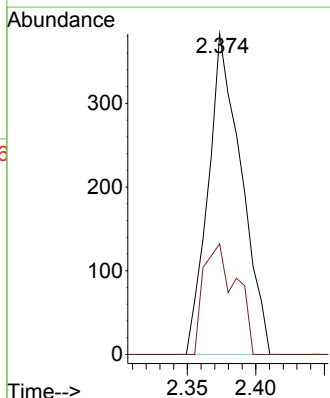
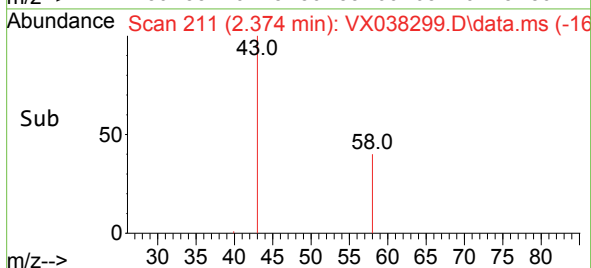
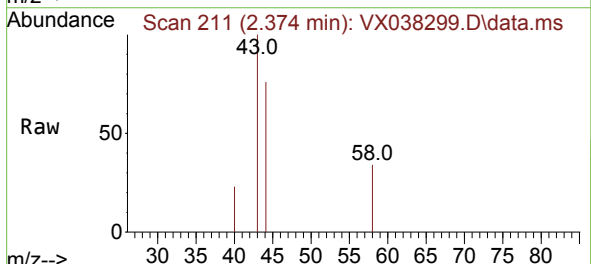


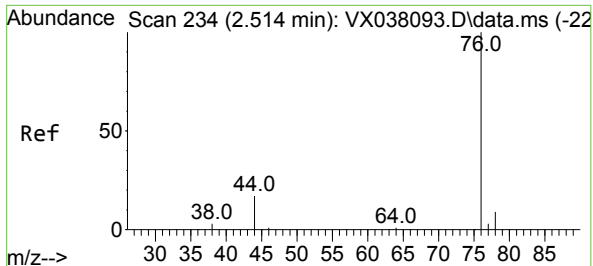
Tgt Ion: 53 Resp: 288  
Ion Ratio Lower Upper  
53 100  
52 75.0 66.0 99.0  
51 28.5 29.8 44.6#



#16  
Acetone  
Concen: 0.681 ug/l  
RT: 2.374 min Scan# 211  
Delta R.T. -0.006 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

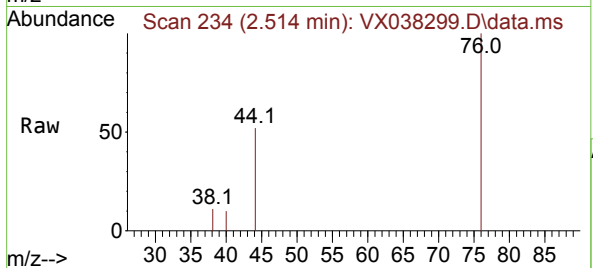
Tgt Ion: 43 Resp: 643  
Ion Ratio Lower Upper  
43 100  
58 34.5 21.9 32.9#



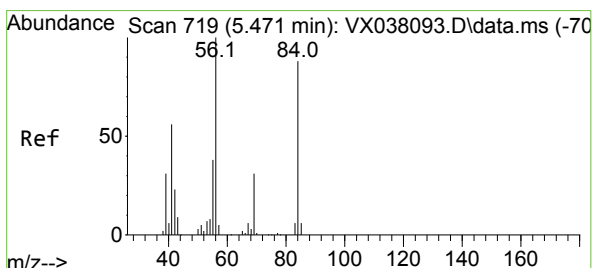
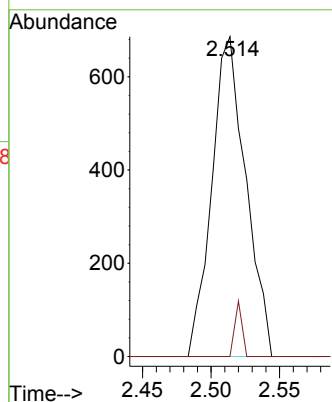
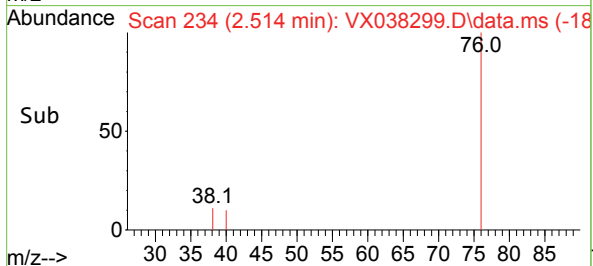


#17  
Carbon Disulfide  
Concen: 0.320 ug/l  
RT: 2.514 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

Instrument :  
MSVOA\_X  
ClientSampleId :

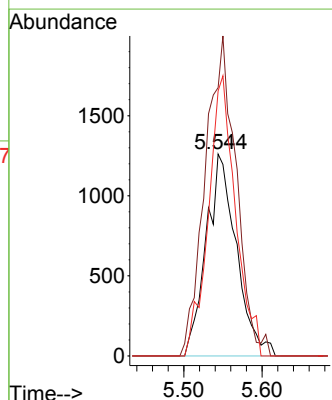
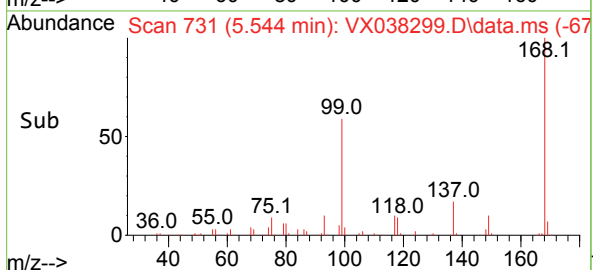
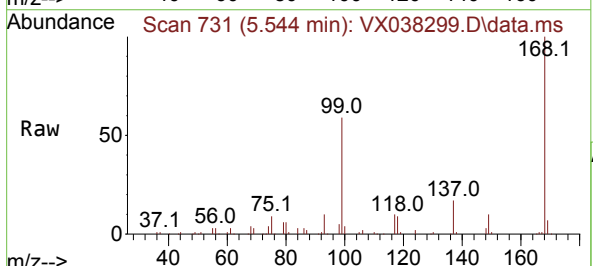


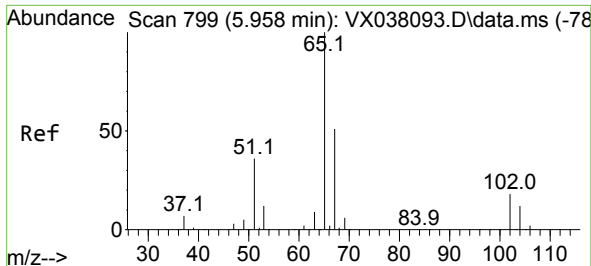
Tgt Ion: 76 Resp: 1186  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.0 10.6#



#31  
Cyclohexane  
Concen: 1.379 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. 0.073 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

Tgt Ion: 56 Resp: 3378  
Ion Ratio Lower Upper  
56 100  
69 132.8 23.4 35.2#  
84 131.2 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 44.864 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX038299.D

Acq: 16 Oct 2023 13:24

Instrument :

MSVOA\_X

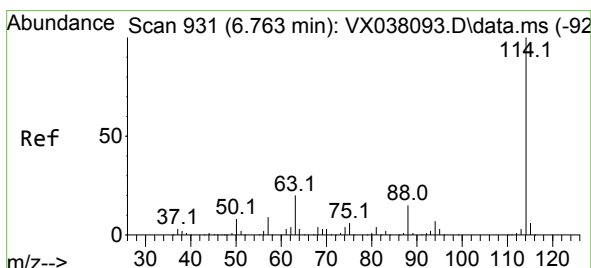
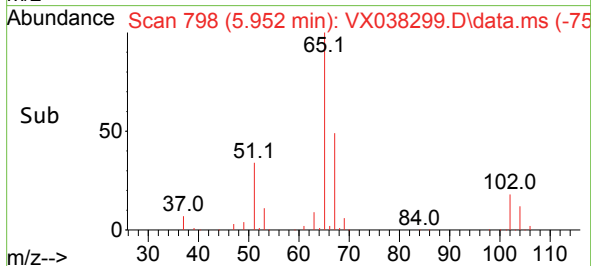
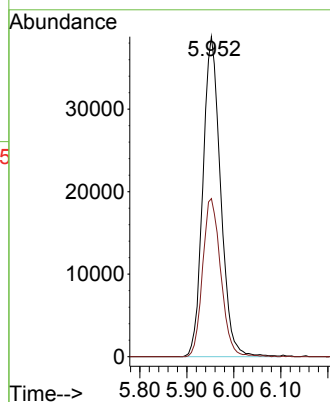
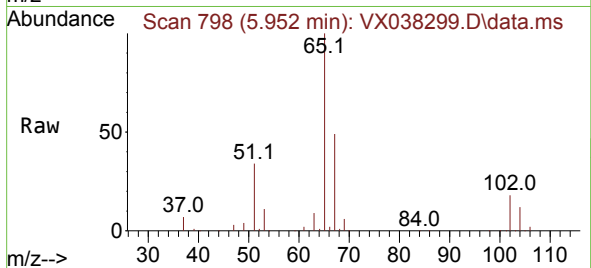
ClientSampleId :

Tgt Ion: 65 Resp: 101460

Ion Ratio Lower Upper

65 100

67 50.6 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.006 min

Lab File: VX038299.D

Acq: 16 Oct 2023 13:24

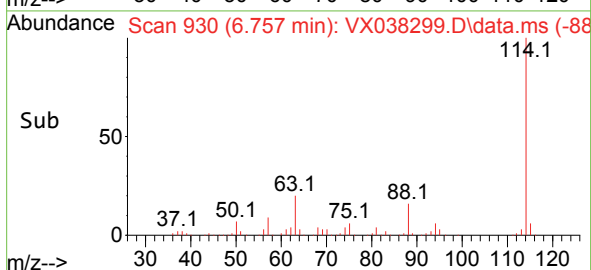
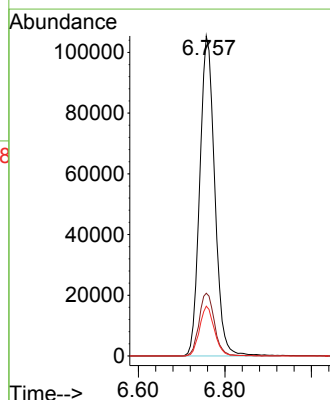
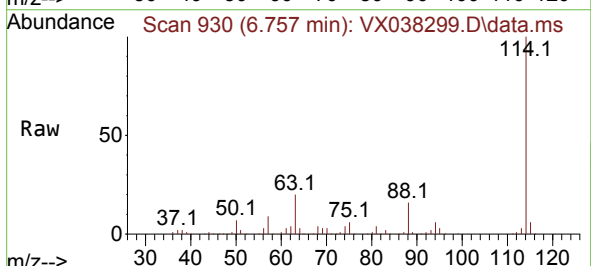
Tgt Ion:114 Resp: 253054

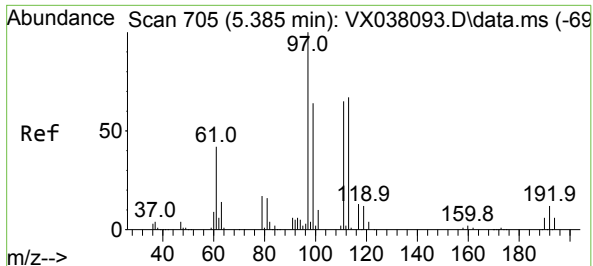
Ion Ratio Lower Upper

114 100

63 19.6 0.0 45.0

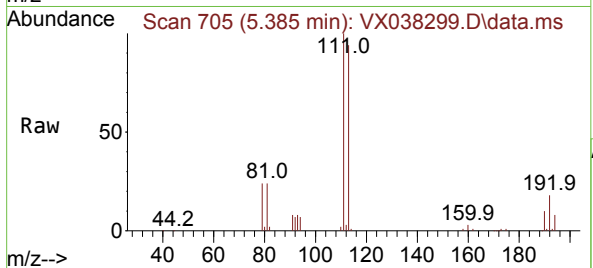
88 15.6 0.0 36.6



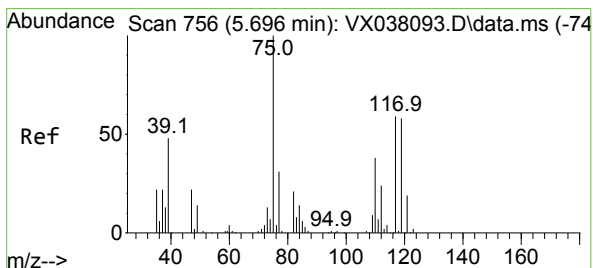
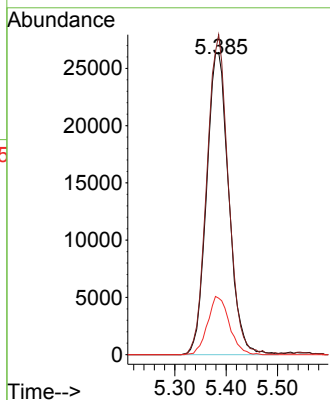
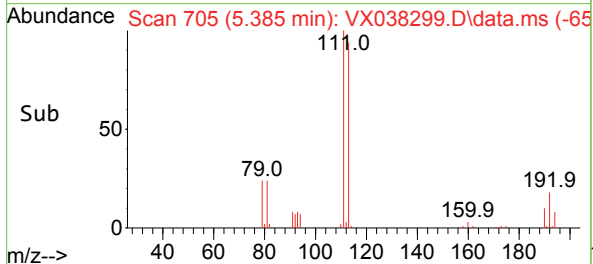


#35  
Dibromofluoromethane  
Concen: 43.226 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

Instrument :  
MSVOA\_X  
ClientSampleId :

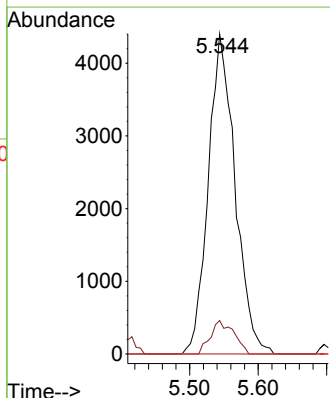
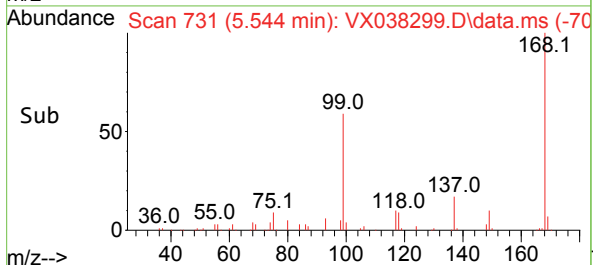
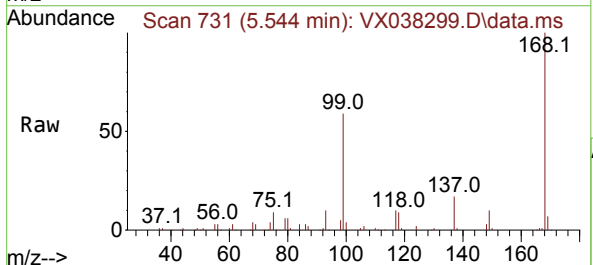


Tgt Ion:113 Resp: 78819  
Ion Ratio Lower Upper  
113 100  
111 103.4 82.9 124.3  
192 18.9 13.3 19.9

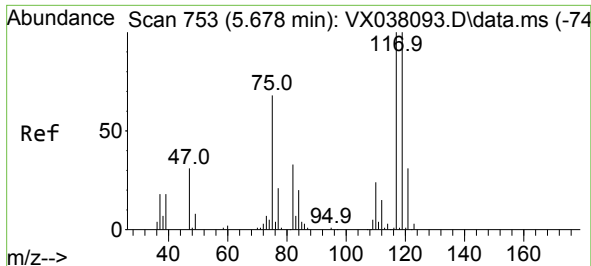


#36  
1,1-Dichloropropene  
Concen: 4.756 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.146 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

Tgt Ion: 75 Resp: 11958  
Ion Ratio Lower Upper  
75 100  
110 9.0 17.0 50.9#  
77 0.0 24.7 37.1#

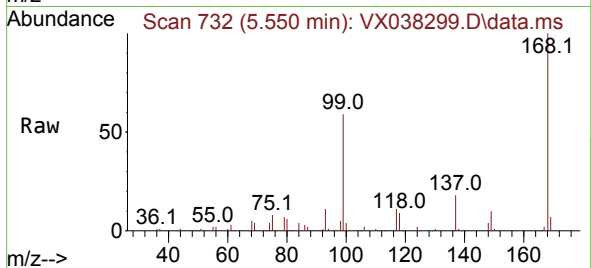




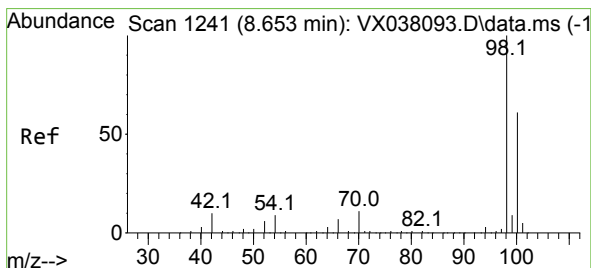
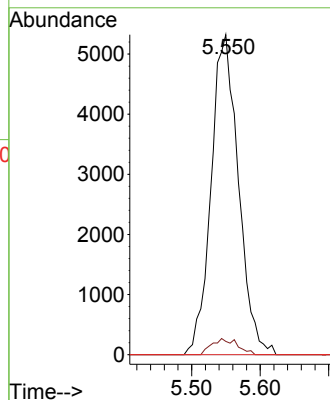
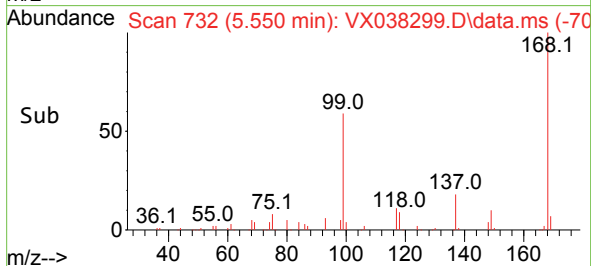


#38  
Carbon Tetrachloride  
Concen: 5.969 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

Instrument :  
MSVOA\_X  
ClientSampleId :

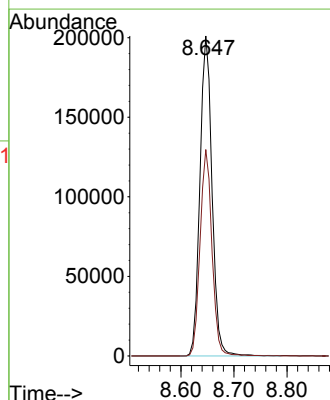
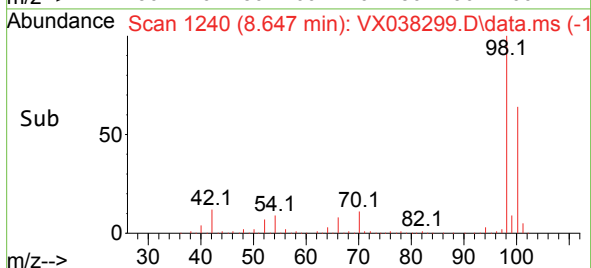
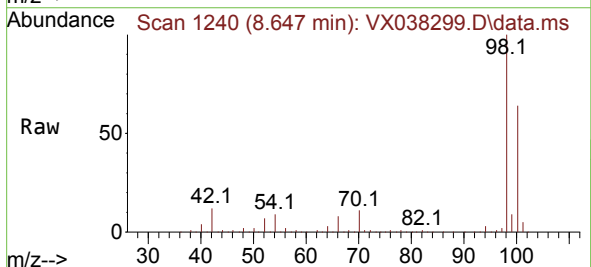


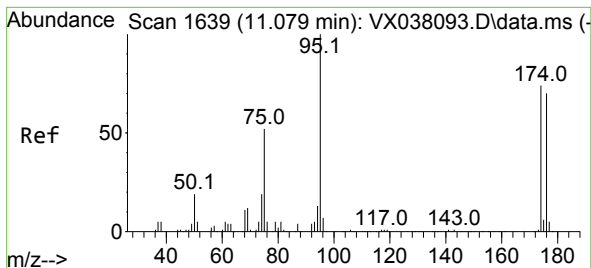
Tgt Ion:117 Resp: 14764  
Ion Ratio Lower Upper  
117 100  
119 4.2 78.2 117.2#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 45.587 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

Tgt Ion: 98 Resp: 317635  
Ion Ratio Lower Upper  
98 100  
100 63.6 53.1 79.7

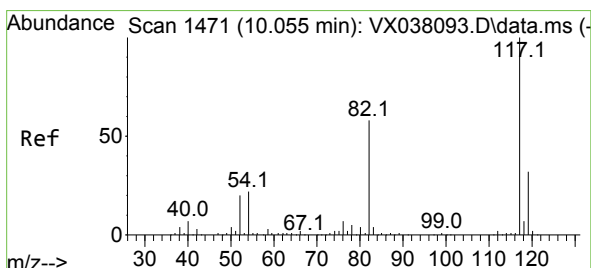
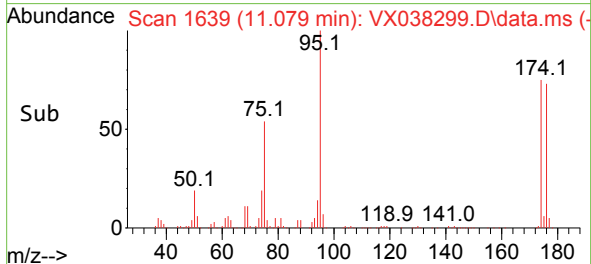
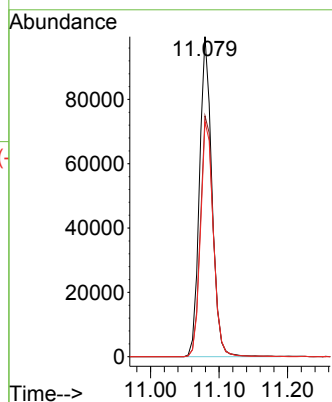
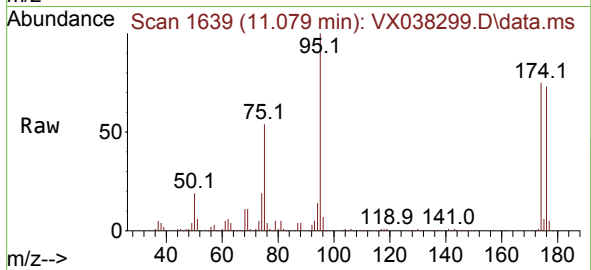




#62  
4-Bromofluorobenzene  
Concen: 47.538 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

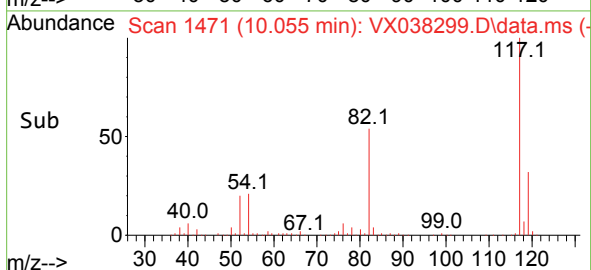
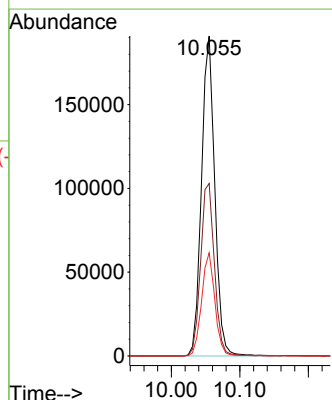
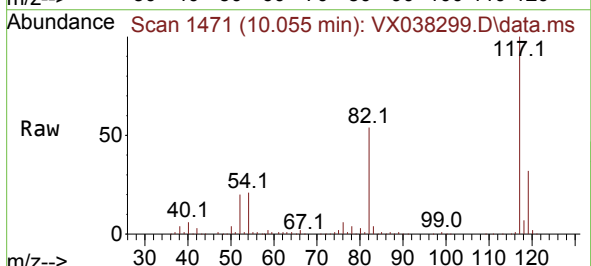
Instrument :  
MSVOA\_X  
ClientSampleId :

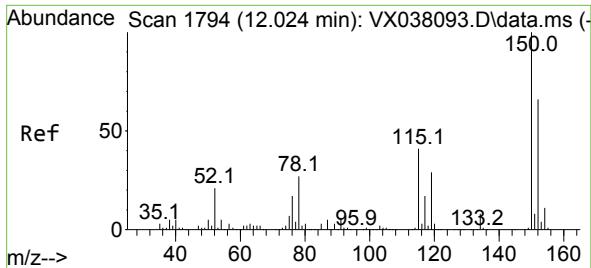
Tgt Ion: 95 Resp: 125574  
Ion Ratio Lower Upper  
95 100  
174 78.1 0.0 135.6  
176 75.5 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038299.D  
Acq: 16 Oct 2023 13:24

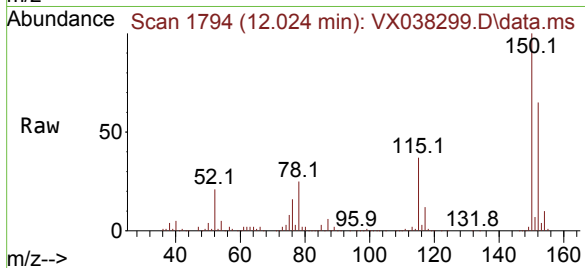
Tgt Ion: 117 Resp: 257600  
Ion Ratio Lower Upper  
117 100  
82 53.9 46.2 69.4  
119 32.2 25.5 38.3



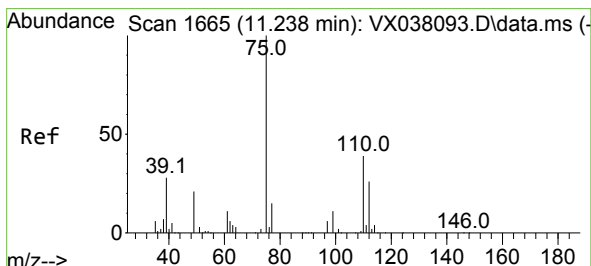
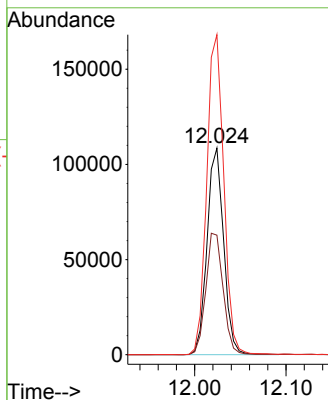
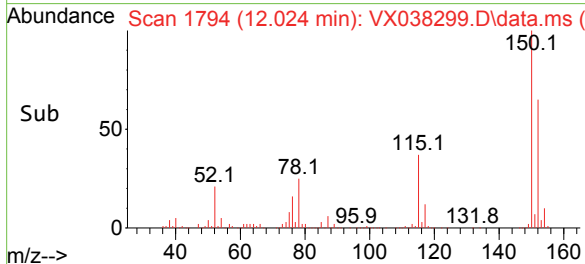


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 1  
 Delta R.T. 0.000 min  
 Lab File: VX038299.D  
 Acq: 16 Oct 2023 13:24

Instrument :  
 MSVOA\_X  
 ClientSampleId :

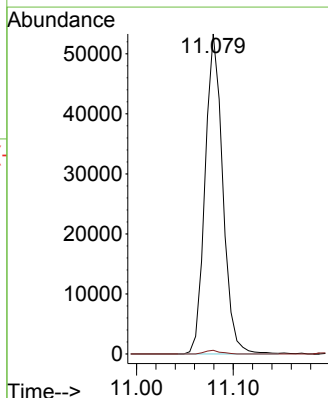
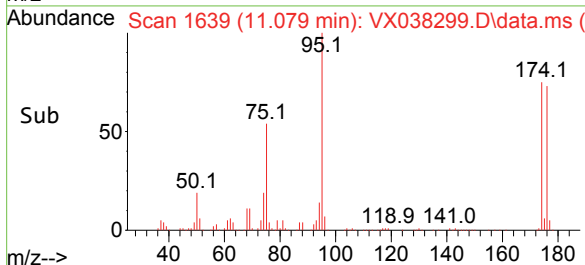
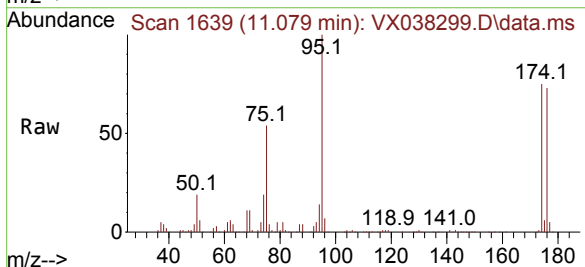


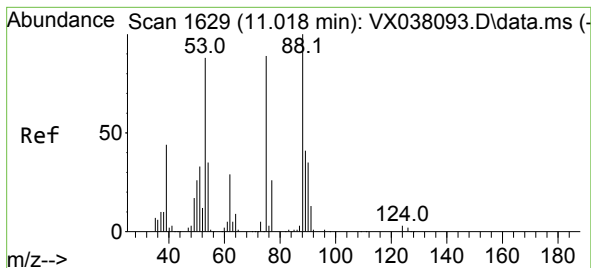
Tgt Ion:152 Resp: 136588  
 Ion Ratio Lower Upper  
 152 100  
 115 61.4 43.3 129.9  
 150 158.7 0.0 345.0



#76  
 1,2,3-Trichloropropane  
 Concen: 21.847 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX038299.D  
 Acq: 16 Oct 2023 13:24

Tgt Ion: 75 Resp: 67837  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 19.1 57.5#

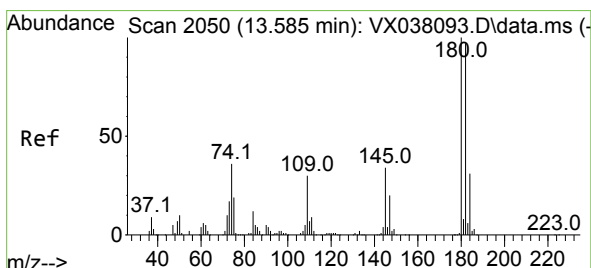
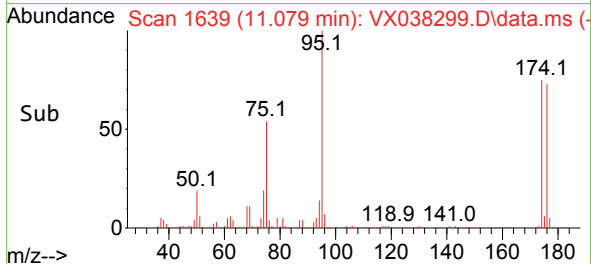
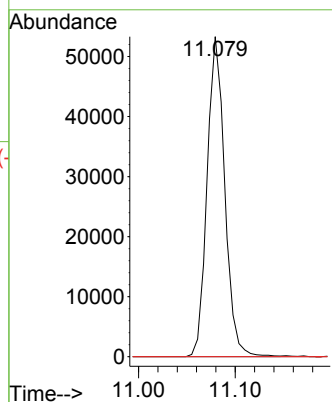
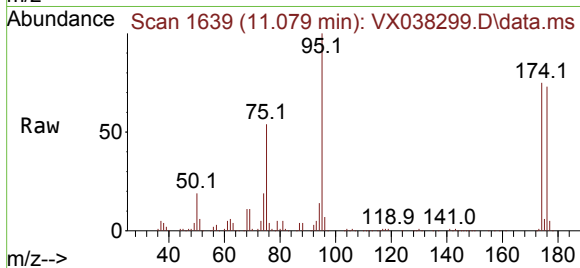




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 62.678 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX038299.D  
 Acq: 16 Oct 2023 13:24

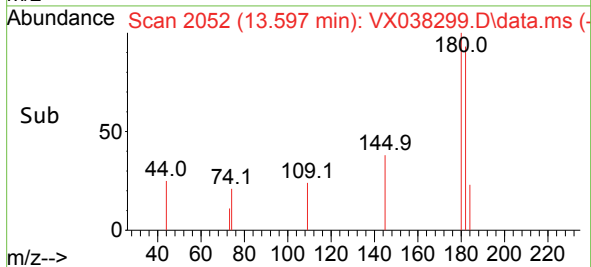
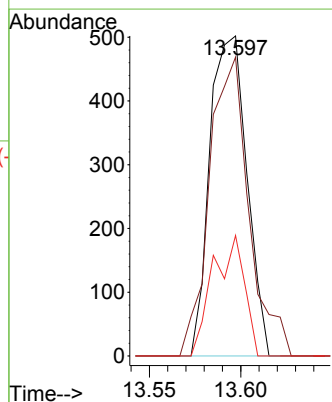
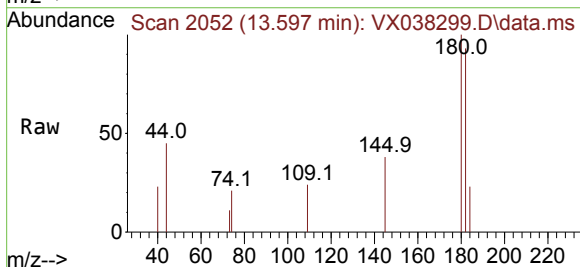
Instrument :  
 MSVOA\_X  
 ClientSampleId :

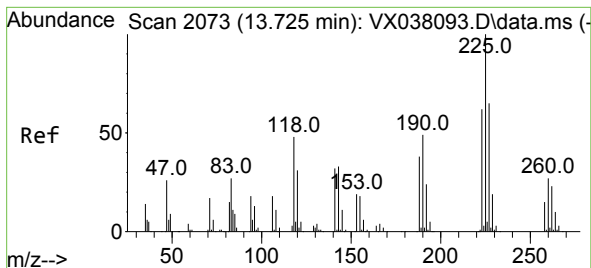
Tgt Ion: 75 Resp: 67837  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.244 ug/l  
 RT: 13.597 min Scan# 2052  
 Delta R.T. 0.012 min  
 Lab File: VX038299.D  
 Acq: 16 Oct 2023 13:24

Tgt Ion:180 Resp: 707  
 Ion Ratio Lower Upper  
 180 100  
 182 99.6 48.3 144.8  
 145 32.0 18.0 54.0





#94

Hexachlorobutadiene

Concen: 0.275 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX038299.D

Acq: 16 Oct 2023 13:24

Instrument :

MSVOA\_X

ClientSampleId :

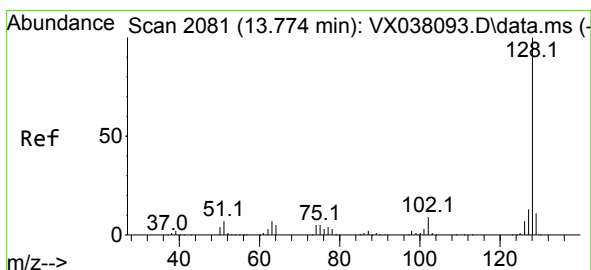
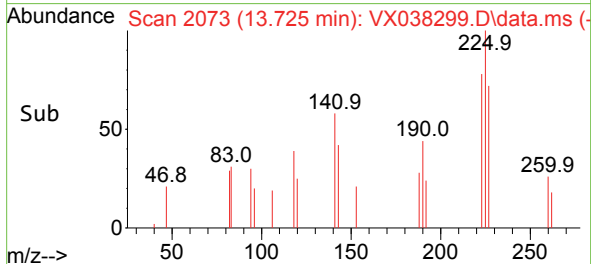
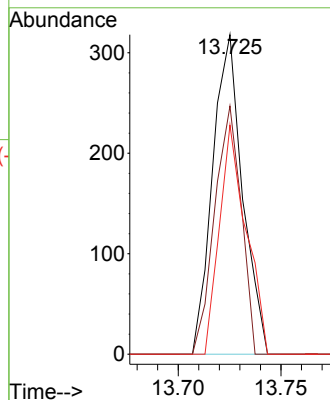
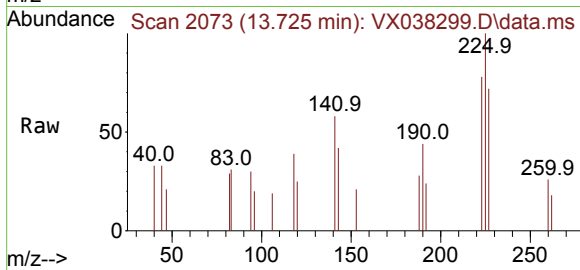
Tgt Ion:225 Resp: 321

Ion Ratio Lower Upper

225 100

223 68.8 31.1 93.2

227 64.2 32.5 97.5



#95

Naphthalene

Concen: 0.200 ug/l

RT: 13.786 min Scan# 2083

Delta R.T. 0.012 min

Lab File: VX038299.D

Acq: 16 Oct 2023 13:24

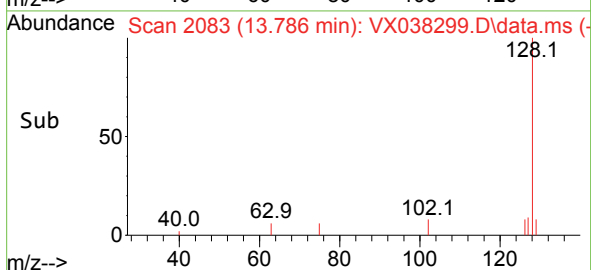
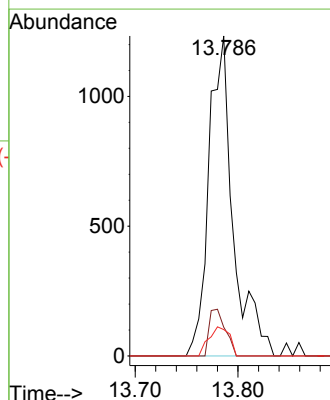
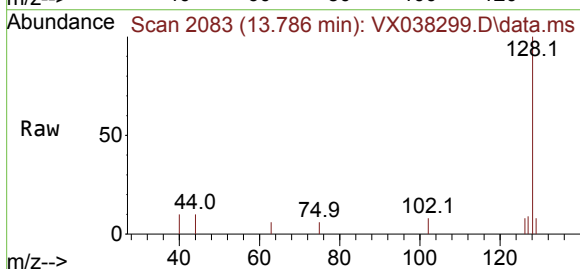
Tgt Ion:128 Resp: 2021

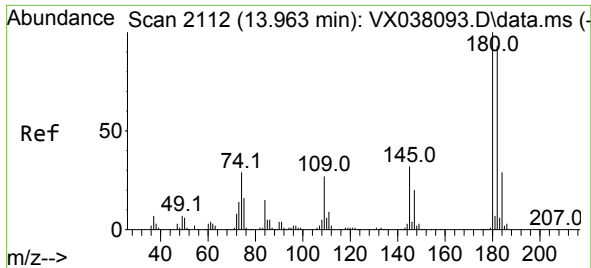
Ion Ratio Lower Upper

128 100

127 9.7 10.3 15.5#

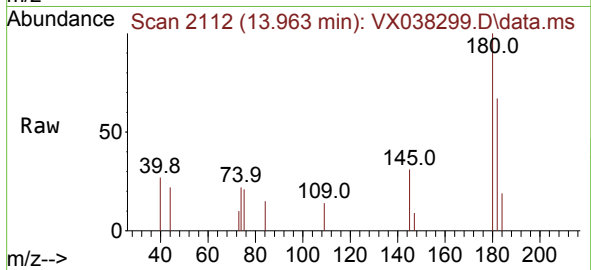
129 7.7 8.8 13.2#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.279 ug/l  
 RT: 13.963 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VX038299.D  
 Acq: 16 Oct 2023 13:24

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion:180 Resp: 781  
 Ion Ratio Lower Upper  
 180 100  
 182 66.5 46.9 140.6  
 145 28.3 17.8 53.5

