

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102122\  
 Data File : VX032308.D  
 Acq On : 21 Oct 2022 23:40  
 Operator : JC/MD  
 Sample : VX1021WBL02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1021WBL02

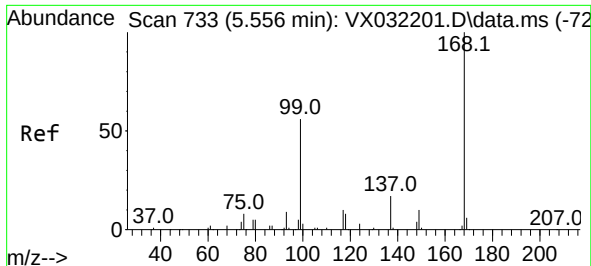
Quant Time: Oct 22 05:18:16 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X101922W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 22 04:56:40 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 162207              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 250210              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 220903              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 104110              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 108624              | 51.477    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 102.960% |           |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 83963               | 48.223    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 96.440%  |           |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 312424              | 49.848    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 99.700%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 113760              | 49.567    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 99.140%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      | Qvalue              |           |        |          |
| 3) Chloromethane              | 1.294          | 50   | 174                 | Below Cal | #      | 44       |
| 6) Chloroethane               | 1.678          | 64   | 93                  | 2.009     | ug/l # | 41       |
| 10) Methyl Iodide             | 2.453          | 142  | 618                 | 0.278     | ug/l # | 85       |
| 11) Tert butyl alcohol        | 2.947          | 59   | 1187                | Below Cal | #      | 74       |
| 13) Acrolein                  | 2.252          | 56   | 71                  | 0.276     | ug/l # | 1        |
| 15) Acrylonitrile             | 3.075          | 53   | 178                 | 0.225     | ug/l # | 78       |
| 16) Acetone                   | 2.398          | 43   | 346                 | 0.505     | ug/l # | 44       |
| 17) Carbon Disulfide          | 2.514          | 76   | 1103                | 0.325     | ug/l # | 74       |
| 20) Methylene Chloride        | 2.782          | 84   | 608                 | 0.346     | ug/l # | 93       |
| 31) Cyclohexane               | 5.538          | 56   | 3752                | 1.555     | ug/l # | 37       |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 13097               | 5.848     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 17069               | 7.219     | ug/l # | 16       |
| 53) t-1,3-Dichloropropene     | 8.982          | 75   | 105                 | 1.858     | ug/l # | 43       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 61593               | 29.858    | ug/l # | 44       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 61593               | 91.384    | ug/l # | 6        |
| 94) Hexachlorobutadiene       | 13.725         | 225  | 532                 | 0.547     | ug/l   | 94       |
| 95) Naphthalene               | 13.774         | 128  | 1498                | 0.209     | ug/l # | 90       |
| -----                         |                |      |                     |           |        |          |

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

Quant Time: Oct 22 05:18:16 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X101922W.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 22 04:56:40 2022  
Response via : Initial Calibration

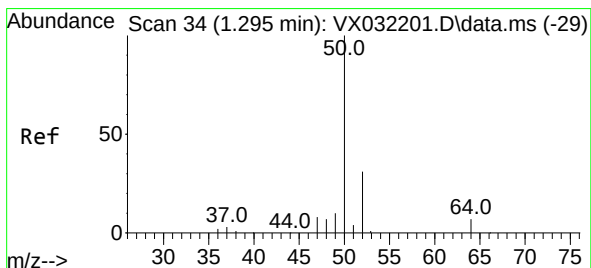
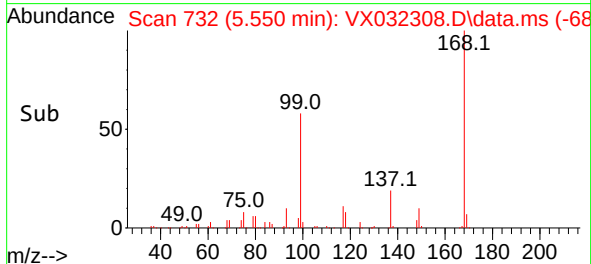
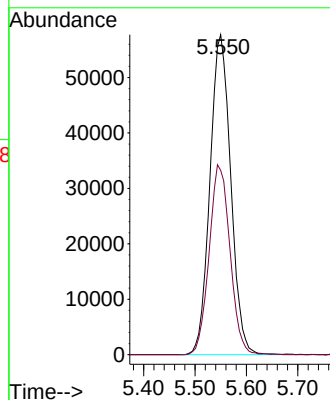
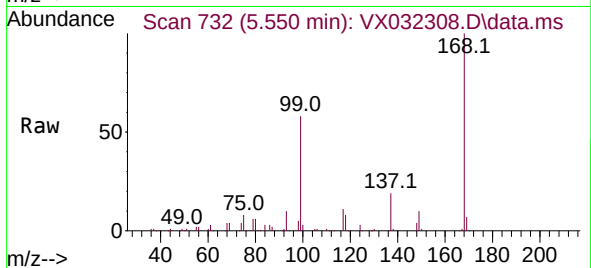




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

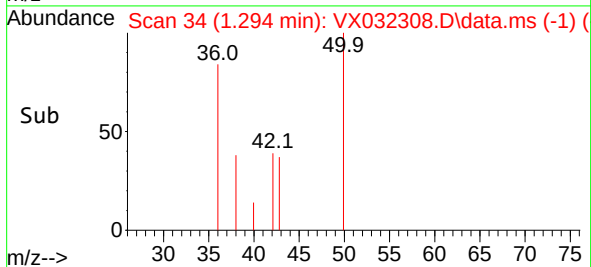
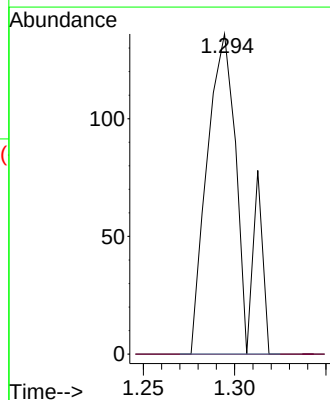
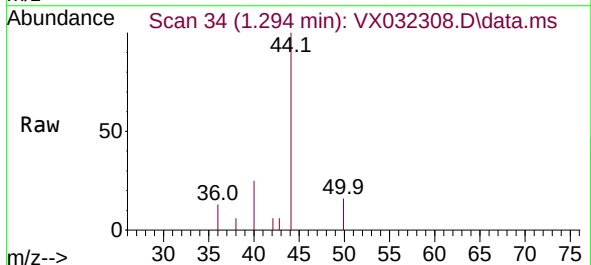
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1021WBL02

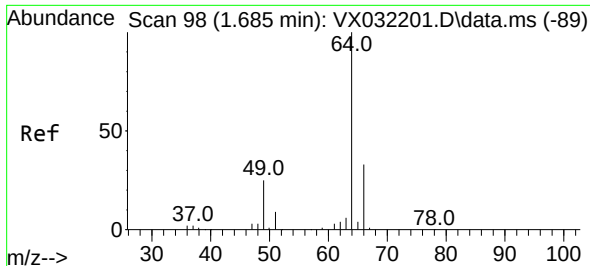
Tgt Ion:168 Resp: 162207  
Ion Ratio Lower Upper  
168 100  
99 57.6 44.8 67.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.294 min Scan# 34  
Delta R.T. -0.001 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

Tgt Ion: 50 Resp: 174  
Ion Ratio Lower Upper  
50 100  
52 0.0 24.7 37.1#

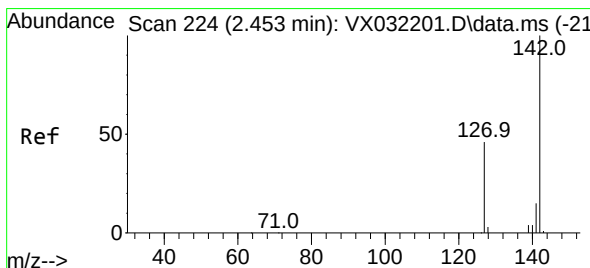
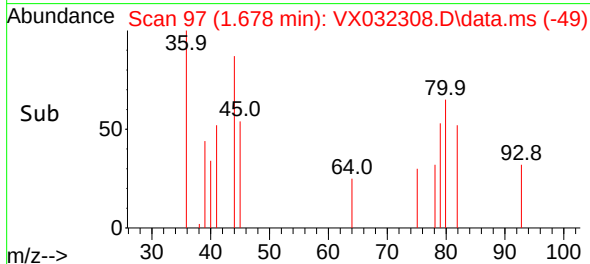
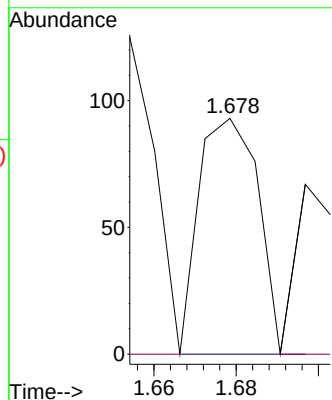
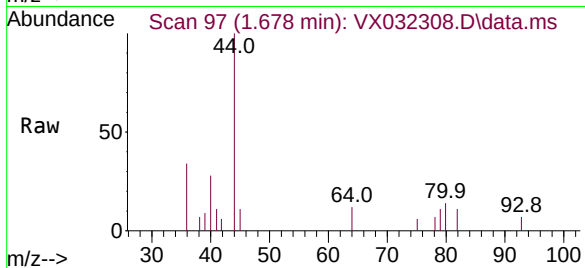




#6  
Chloroethane  
Concen: 2.009 ug/l  
RT: 1.678 min Scan# 91  
Delta R.T. -0.007 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

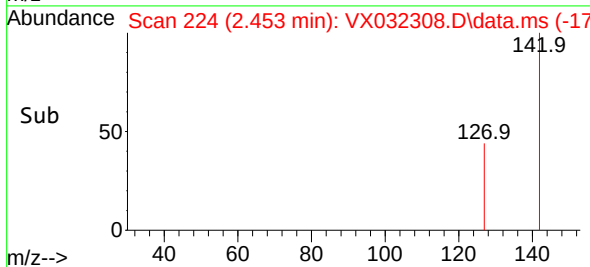
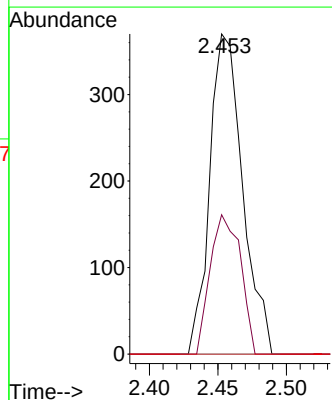
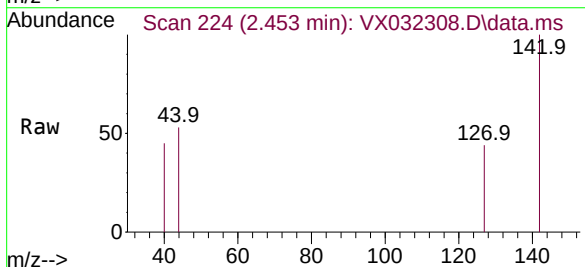
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1021WBL02

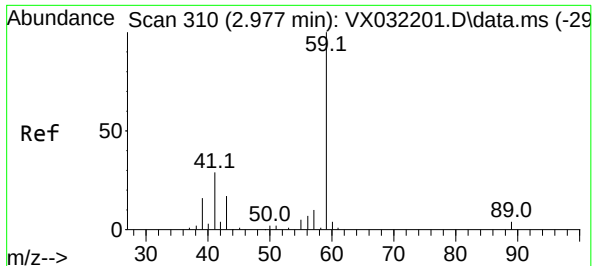
Tgt Ion: 64 Resp: 93  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.6 39.8#



#10  
Methyl Iodide  
Concen: 0.278 ug/l  
RT: 2.453 min Scan# 224  
Delta R.T. -0.000 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

Tgt Ion:142 Resp: 618  
Ion Ratio Lower Upper  
142 100  
127 40.1 36.9 55.3  
141 0.0 11.4 17.2#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.947 min Scan# 305

Delta R.T. -0.030 min

Lab File: VX032308.D

Acq: 21 Oct 2022 23:40

Instrument :

MSVOA\_X

ClientSampleId :

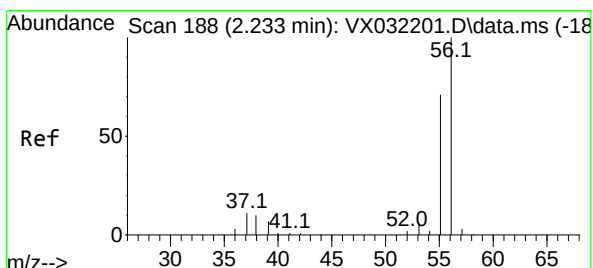
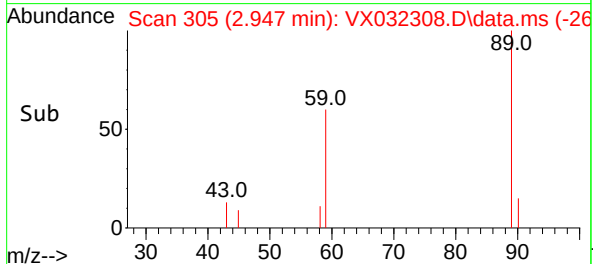
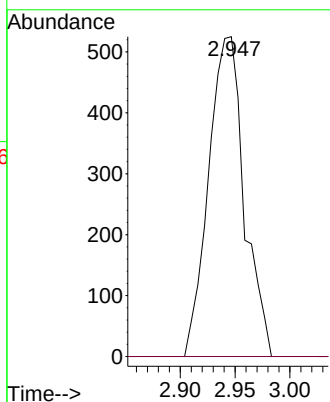
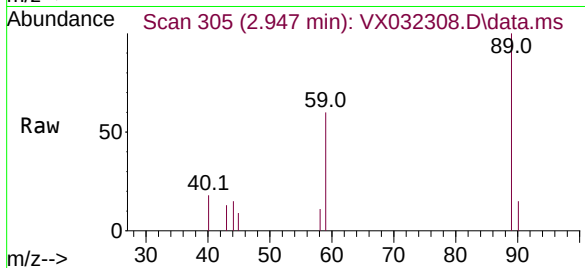
VX1021WBL02

Tgt Ion: 59 Resp: 1187

Ion Ratio Lower Upper

59 100

57 0.0 7.5 11.3#



#13

Acrolein

Concen: 0.276 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.019 min

Lab File: VX032308.D

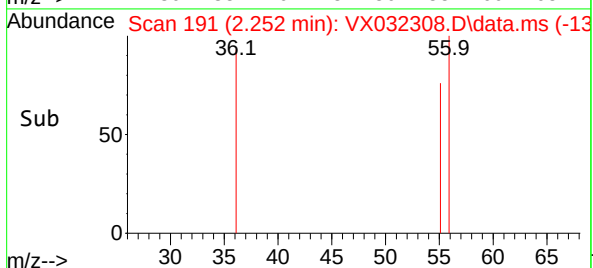
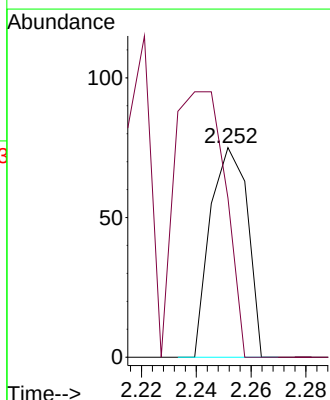
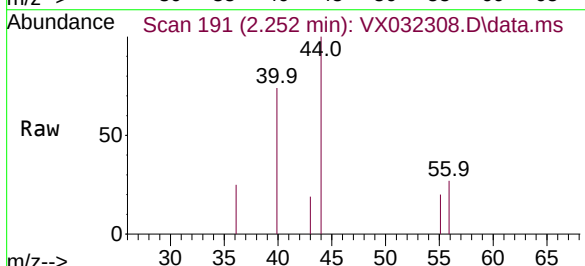
Acq: 21 Oct 2022 23:40

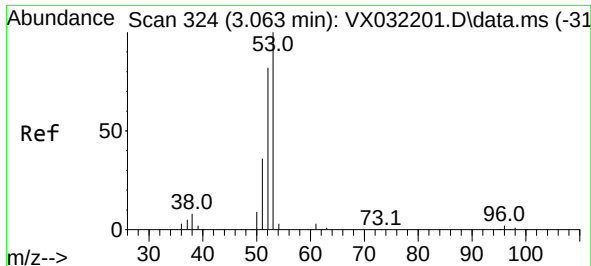
Tgt Ion: 56 Resp: 71

Ion Ratio Lower Upper

56 100

55 173.2 56.4 84.6#

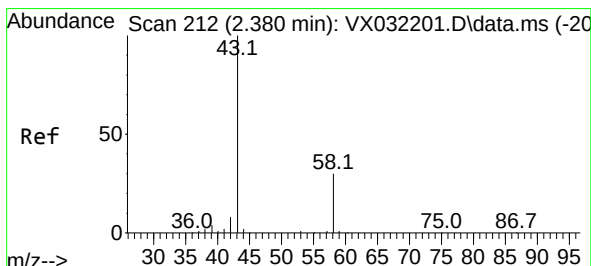
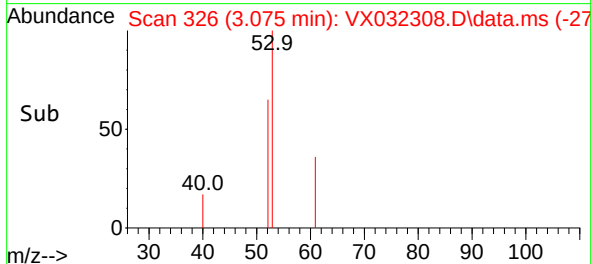
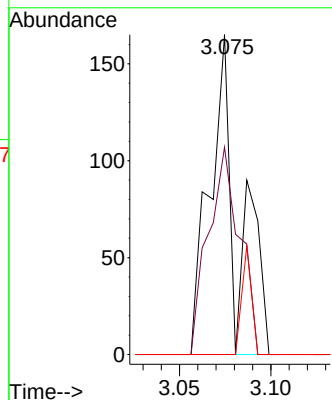
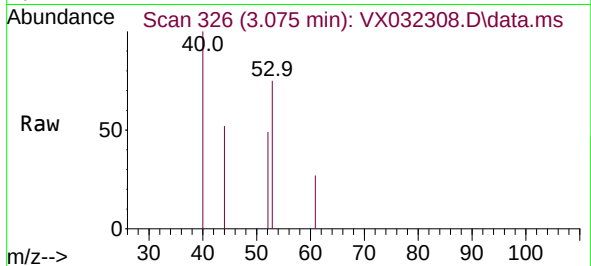




#15  
Acrylonitrile  
Concen: 0.225 ug/l  
RT: 3.075 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

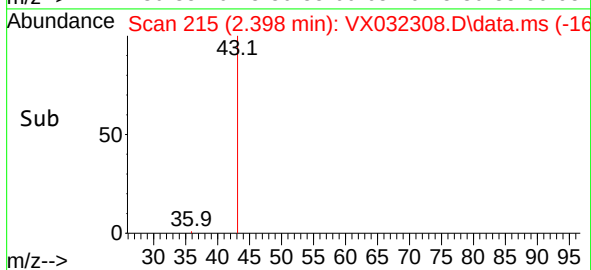
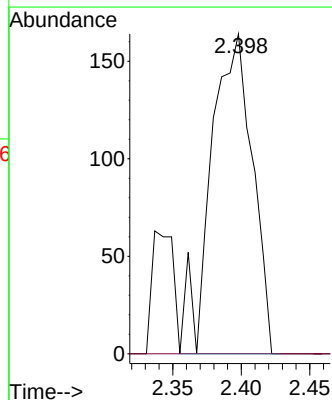
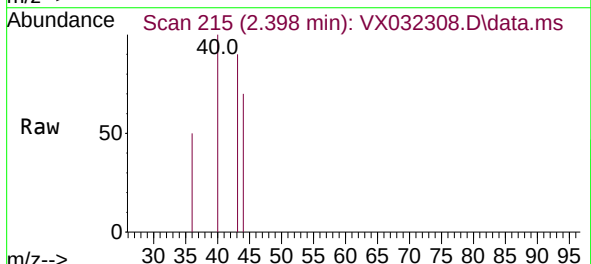
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1021WBL02

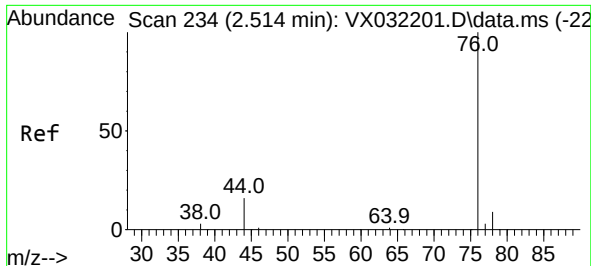
Tgt Ion: 53 Resp: 178  
Ion Ratio Lower Upper  
53 100  
52 71.9 65.9 98.9  
51 11.2 29.7 44.5#



#16  
Acetone  
Concen: 0.505 ug/l  
RT: 2.398 min Scan# 215  
Delta R.T. 0.018 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

Tgt Ion: 43 Resp: 346  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.2 36.2#





#17

Carbon Disulfide

Concen: 0.325 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX032308.D

Acq: 21 Oct 2022 23:40

Instrument :

MSVOA\_X

ClientSampleId :

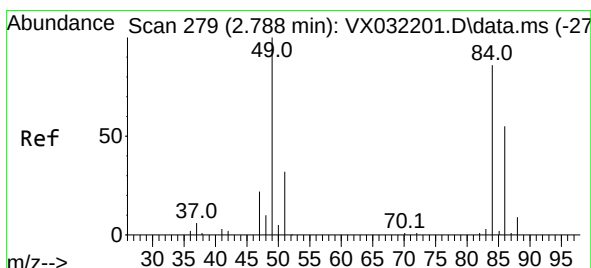
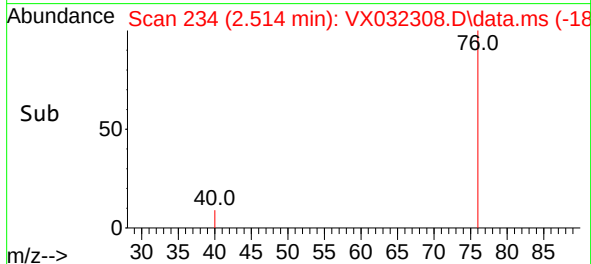
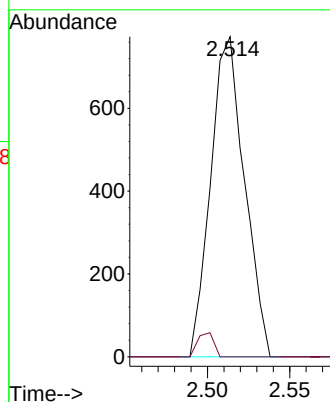
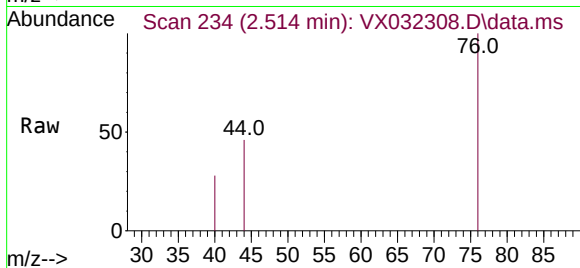
VX1021WBL02

Tgt Ion: 76 Resp: 1103

Ion Ratio Lower Upper

76 100

78 0.0 7.6 11.4#



#20

Methylene Chloride

Concen: 0.346 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.006 min

Lab File: VX032308.D

Acq: 21 Oct 2022 23:40

Tgt Ion: 84 Resp: 608

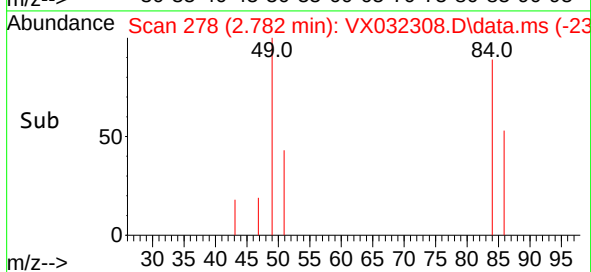
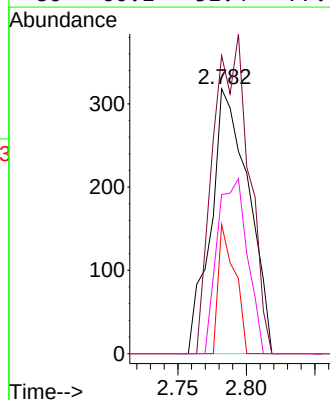
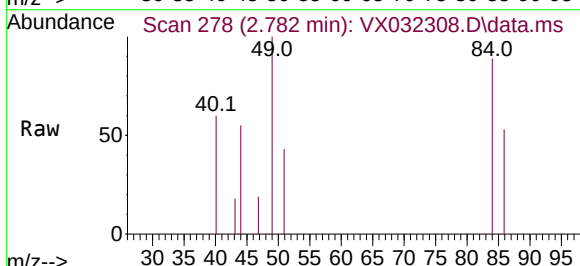
Ion Ratio Lower Upper

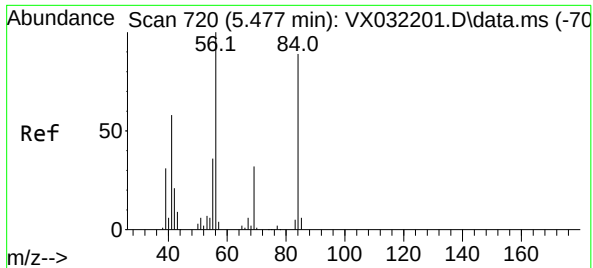
84 100

49 112.6 92.6 139.0

51 48.7 29.2 43.8#

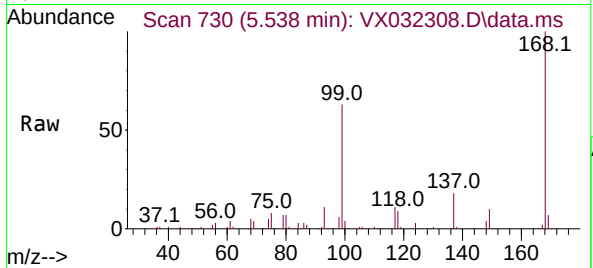
86 60.1 51.4 77.0



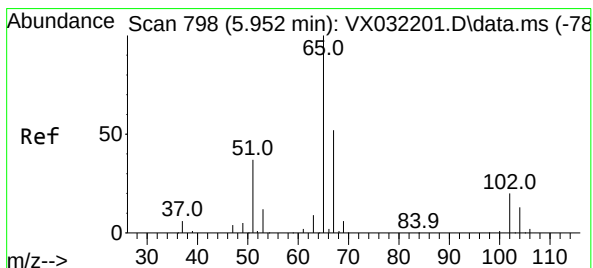
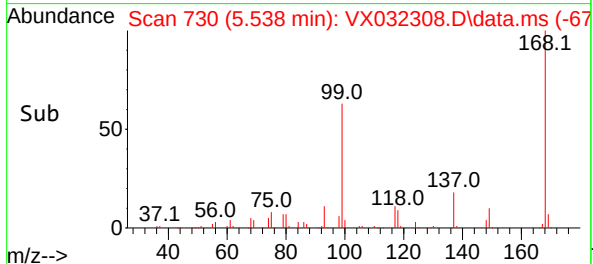
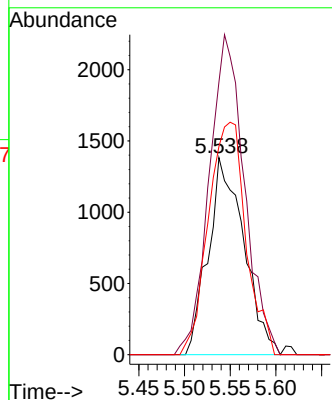


#31  
Cyclohexane  
Concen: 1.555 ug/l  
RT: 5.538 min Scan# 71  
Delta R.T. 0.061 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1021WBL02

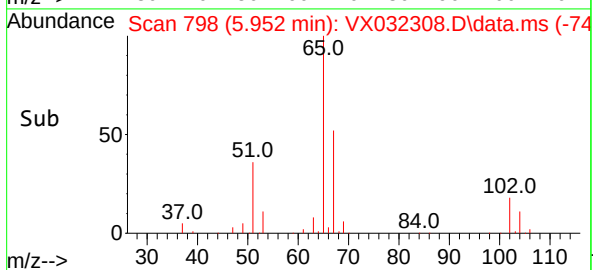
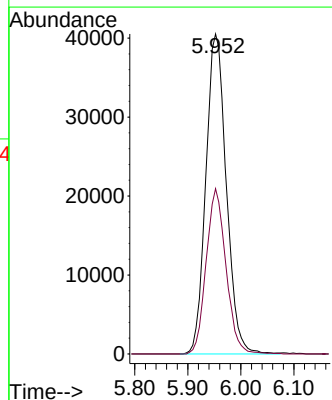
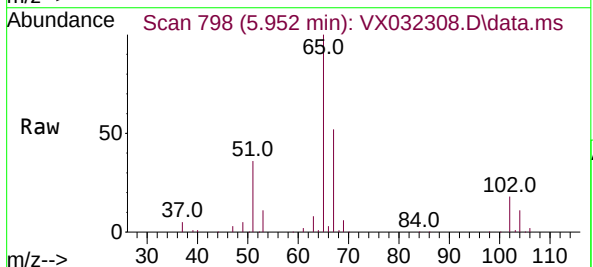


Tgt Ion: 56 Resp: 3752  
Ion Ratio Lower Upper  
56 100  
69 138.2 25.4 38.0#  
84 105.6 71.2 106.8

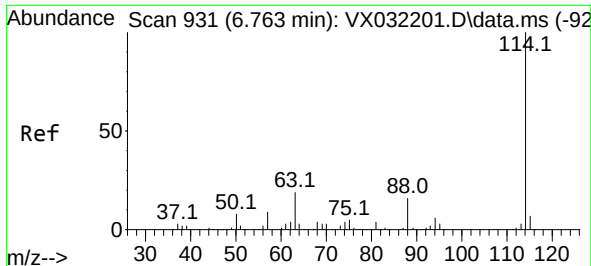


#33  
1,2-Dichloroethane-d4  
Concen: 51.477 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

Tgt Ion: 65 Resp: 108624  
Ion Ratio Lower Upper  
65 100  
67 50.0 0.0 103.6



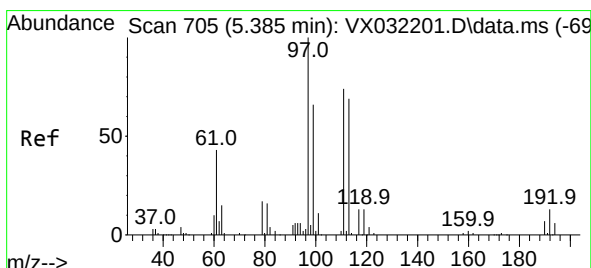
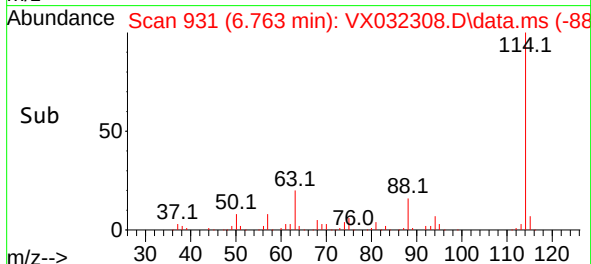
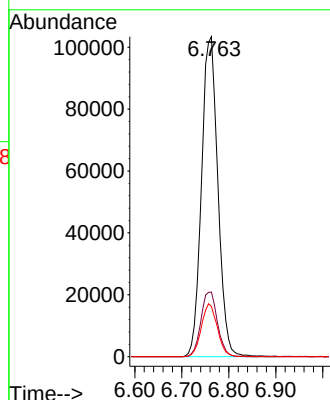
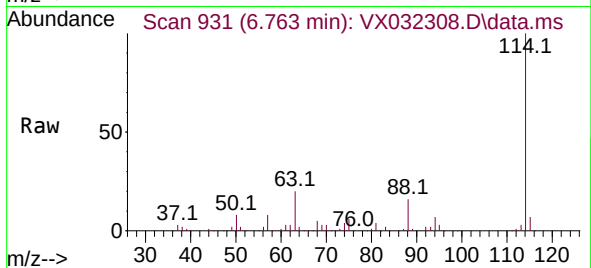




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

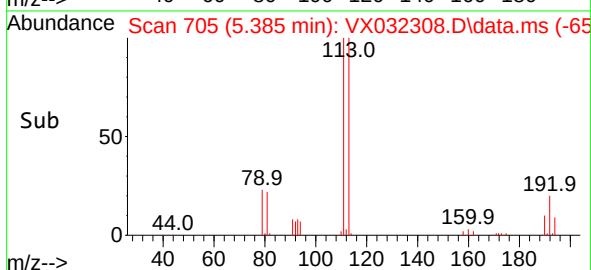
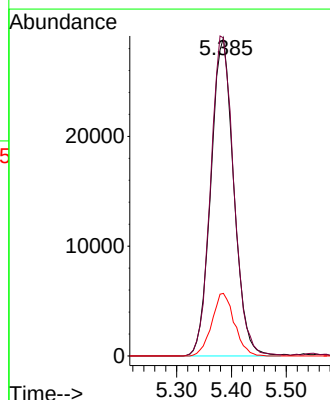
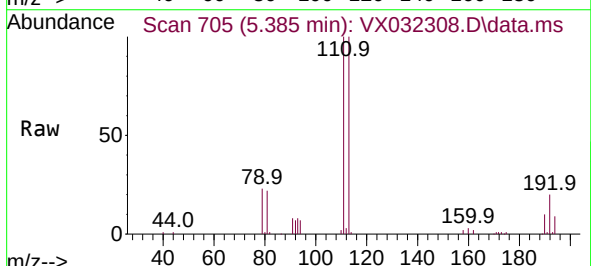
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1021WBL02

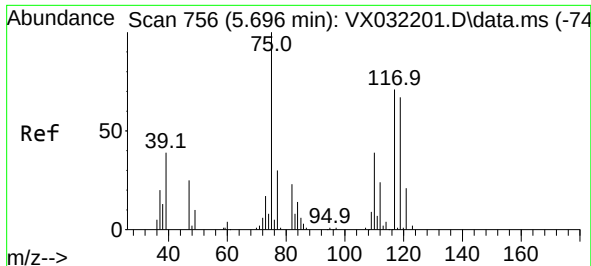
Tgt Ion:114 Resp: 250210  
Ion Ratio Lower Upper  
114 100  
63 20.2 0.0 38.6  
88 15.7 0.0 32.6



#35  
Dibromofluoromethane  
Concen: 48.223 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

Tgt Ion:113 Resp: 83963  
Ion Ratio Lower Upper  
113 100  
111 101.8 82.8 124.2  
192 19.4 15.5 23.3

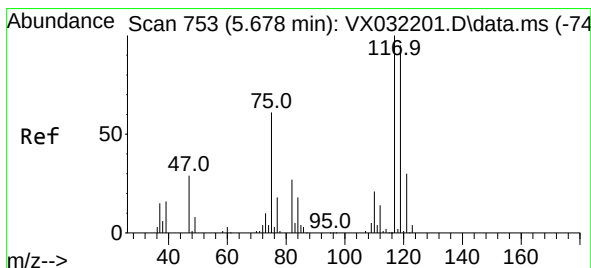
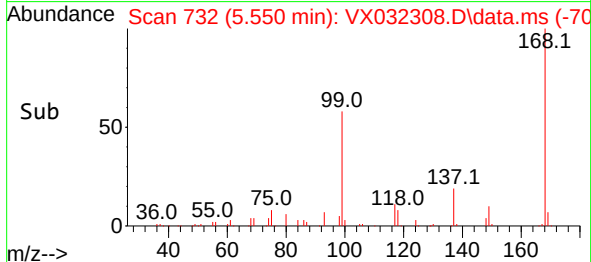
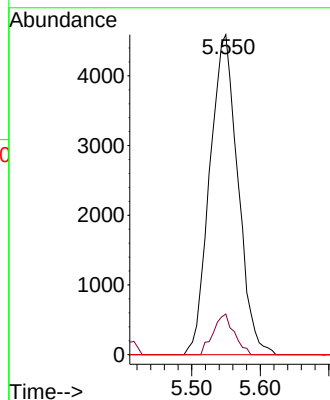
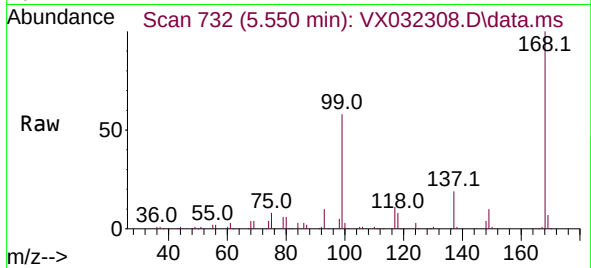




#36  
1,1-Dichloropropene  
Concen: 5.848 ug/l  
RT: 5.550 min Scan# 712  
Delta R.T. -0.146 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

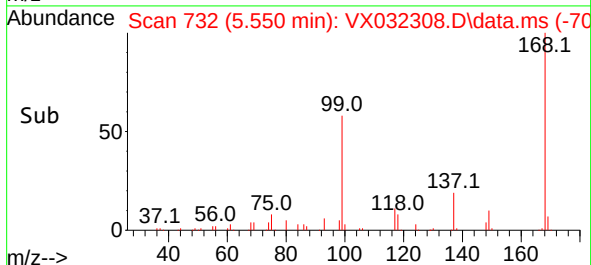
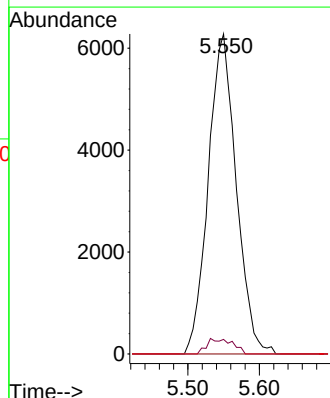
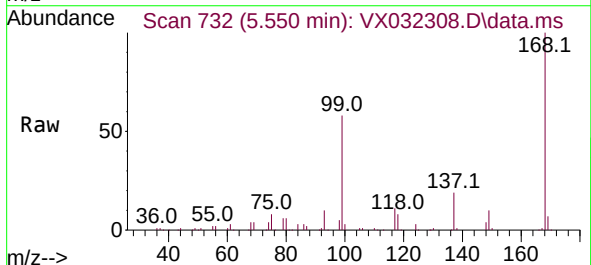
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1021WBL02

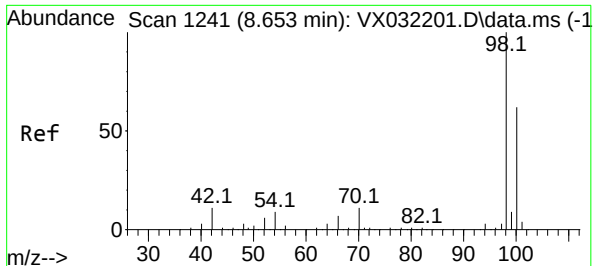
Tgt Ion: 75 Resp: 13097  
Ion Ratio Lower Upper  
75 100  
110 9.4 18.4 55.0#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 7.219 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.128 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

Tgt Ion: 117 Resp: 17069  
Ion Ratio Lower Upper  
117 100  
119 4.6 75.4 113.0#  
121 0.0 23.9 35.9#





#50

Toluene-d8

Concen: 49.848 ug/l

RT: 8.647 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX032308.D

Acq: 21 Oct 2022 23:40

Instrument :

MSVOA\_X

ClientSampleId :

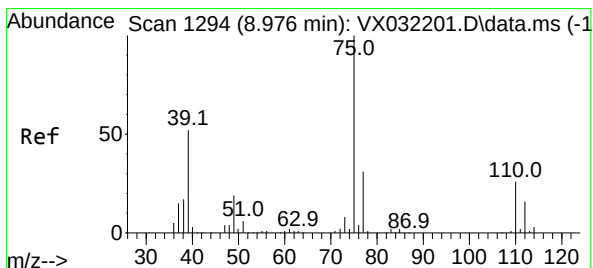
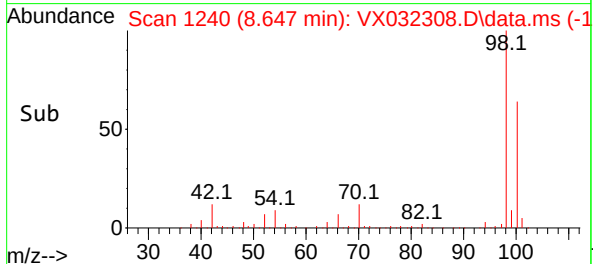
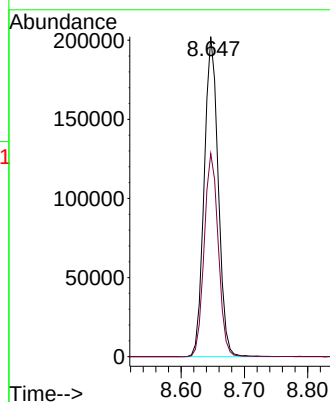
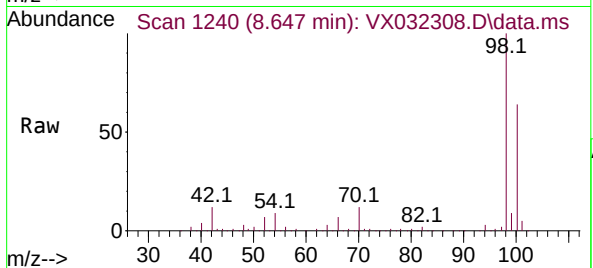
VX1021WBL02

Tgt Ion: 98 Resp: 312424

Ion Ratio Lower Upper

98 100

100 63.6 50.7 76.1



#53

t-1,3-Dichloropropene

Concen: 1.858 ug/l

RT: 8.982 min Scan# 1295

Delta R.T. 0.006 min

Lab File: VX032308.D

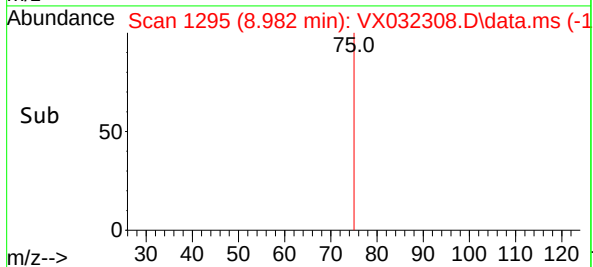
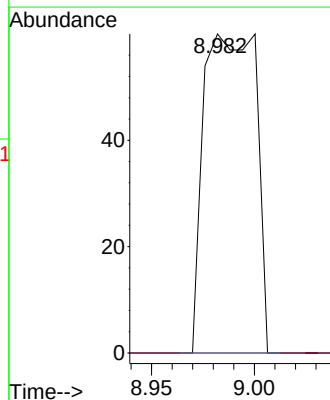
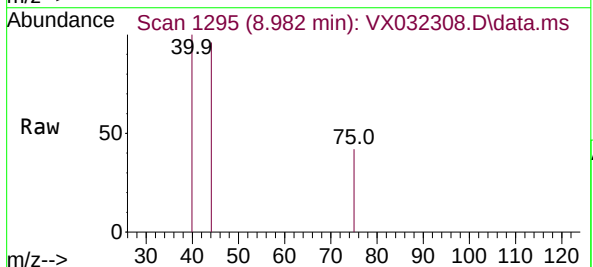
Acq: 21 Oct 2022 23:40

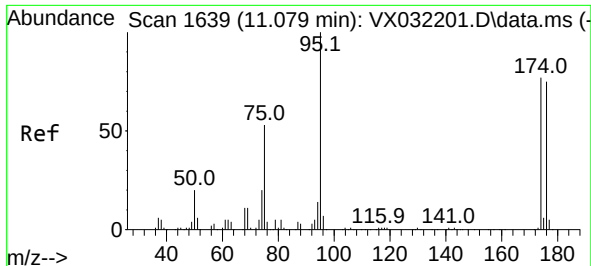
Tgt Ion: 75 Resp: 105

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

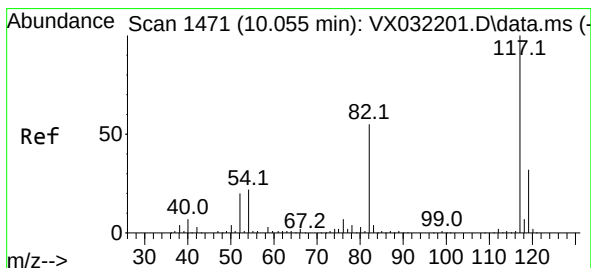
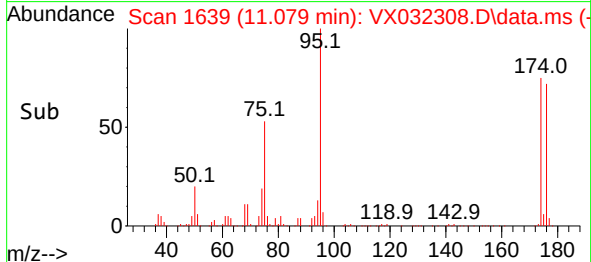
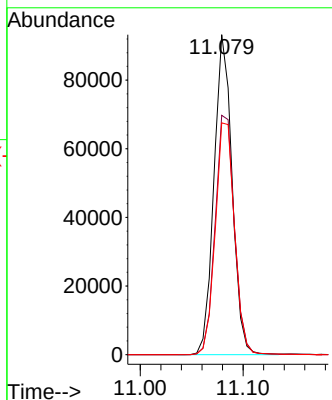
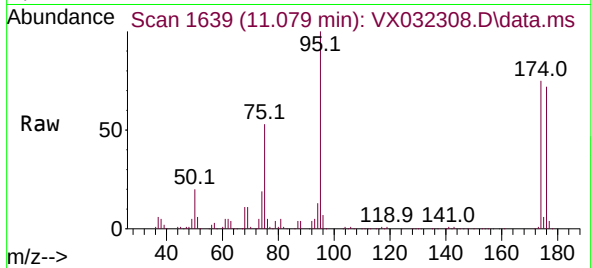




#62  
4-Bromofluorobenzene  
Concen: 49.567 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

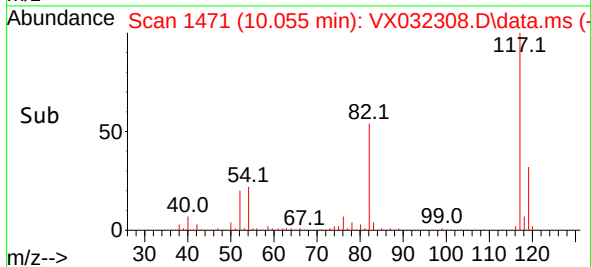
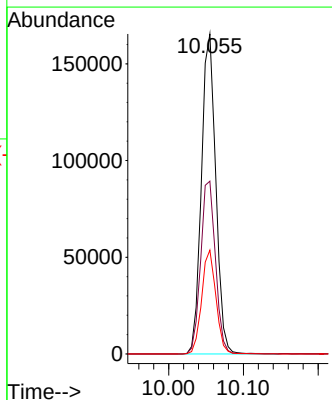
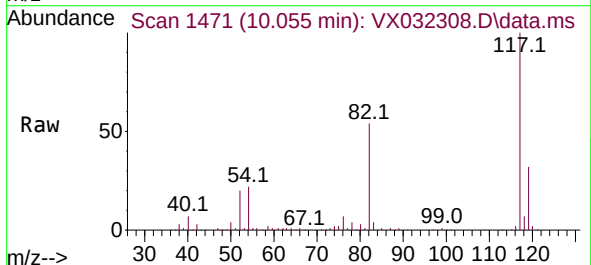
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1021WBL02

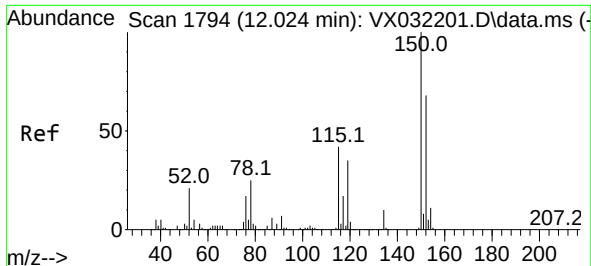
Tgt Ion: 95 Resp: 113760  
Ion Ratio Lower Upper  
95 100  
174 79.6 0.0 166.8  
176 77.4 0.0 161.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

Tgt Ion: 117 Resp: 220903  
Ion Ratio Lower Upper  
117 100  
82 54.0 44.2 66.4  
119 32.4 25.8 38.8

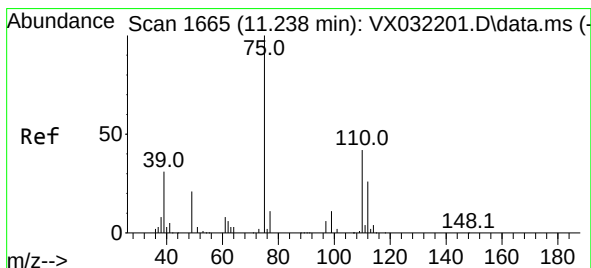
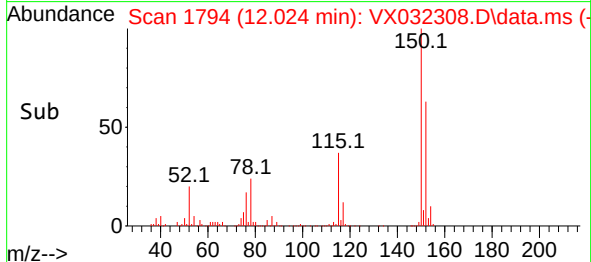
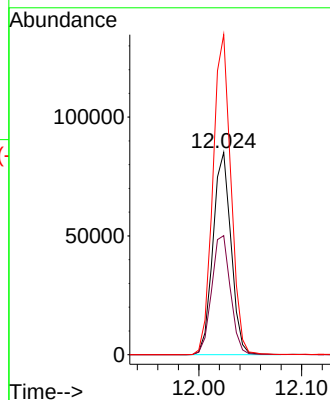
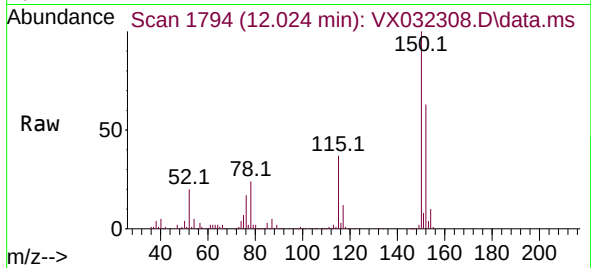




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 1  
 Delta R.T. 0.000 min  
 Lab File: VX032308.D  
 Acq: 21 Oct 2022 23:40

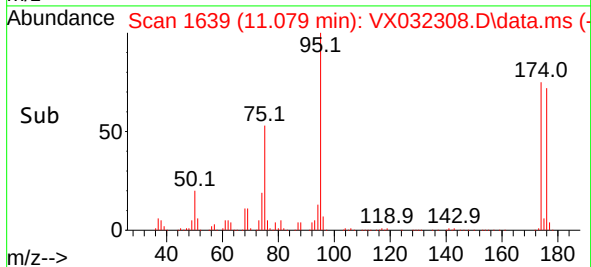
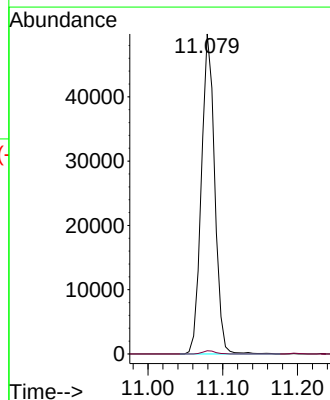
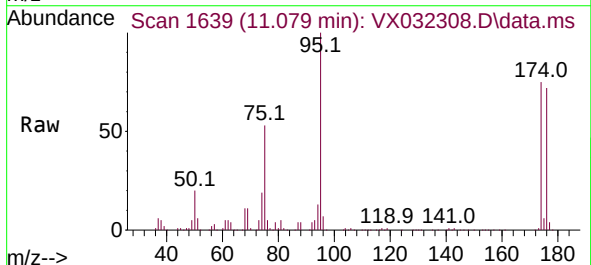
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1021WBL02

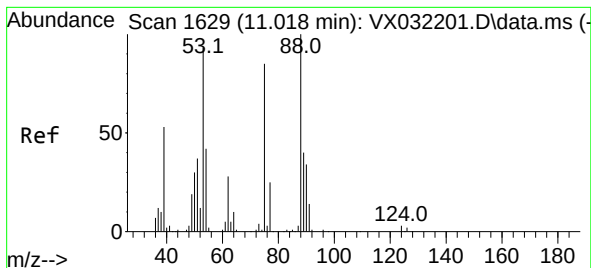
Tgt Ion:152 Resp: 104110  
 Ion Ratio Lower Upper  
 152 100  
 115 61.2 43.1 129.4  
 150 157.9 0.0 348.6



#76  
 1,2,3-Trichloropropane  
 Concen: 29.858 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX032308.D  
 Acq: 21 Oct 2022 23:40

Tgt Ion: 75 Resp: 61593  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 16.0 47.9#

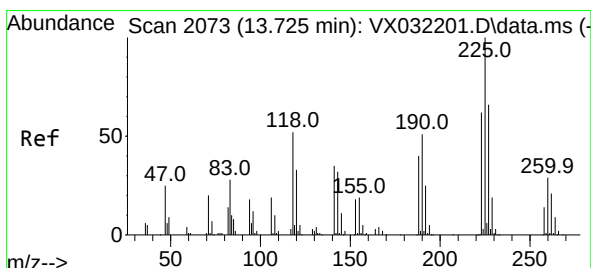
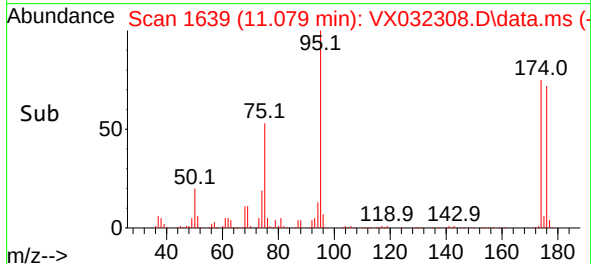
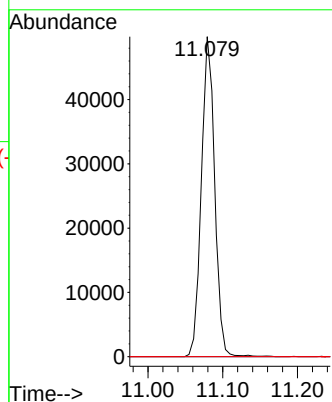
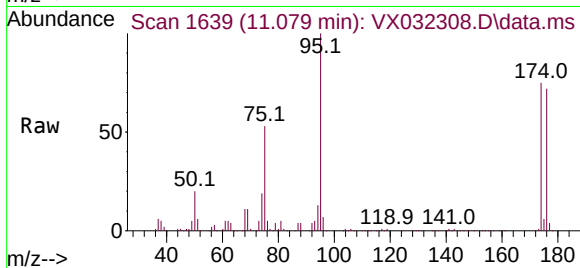




#81  
trans-1,4-Dichloro-2-butene  
Concen: 91.384 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

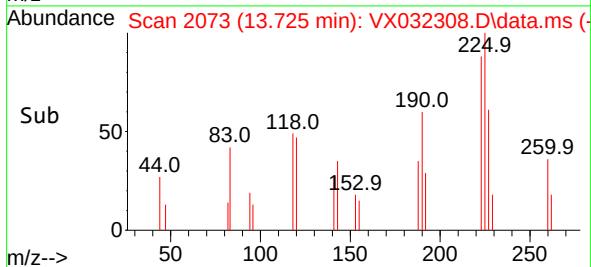
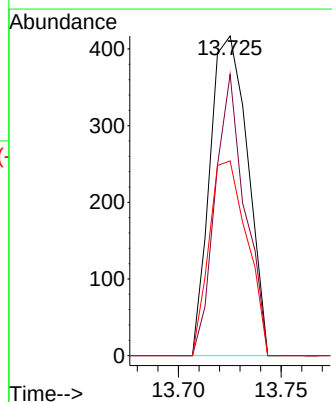
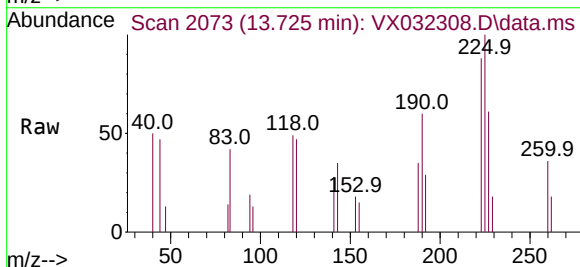
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1021WBL02

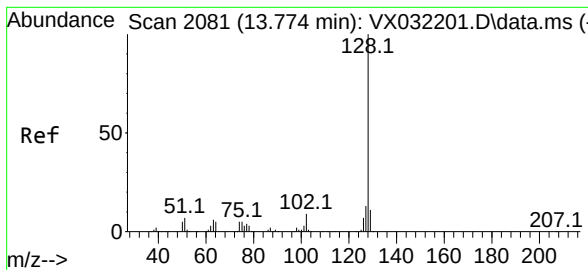
Tgt Ion: 75 Resp: 61593  
Ion Ratio Lower Upper  
75 100  
53 0.0 87.8 131.8#  
89 0.0 37.8 56.8#



#94  
Hexachlorobutadiene  
Concen: 0.547 ug/l  
RT: 13.725 min Scan# 2073  
Delta R.T. 0.000 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

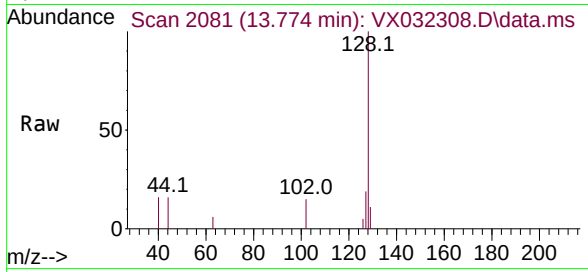
Tgt Ion: 225 Resp: 532  
Ion Ratio Lower Upper  
225 100  
223 69.7 31.4 94.3  
227 61.5 32.0 96.0





#95  
Naphthalene  
Concen: 0.209 ug/l  
RT: 13.774 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VX032308.D  
Acq: 21 Oct 2022 23:40

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1021WBL02



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1498  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 16.8  | 10.3  | 15.5# |
| 129      | 7.1   | 8.7   | 13.1# |

