

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX072122\  
 Data File : VX030139.D  
 Acq On : 20 Jul 2022 17:57  
 Operator : JC/MD  
 Sample : N3765-05 200X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SPC-01BN-84

Quant Time: Jul 21 03:32:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X071222W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 13 09:05:23 2022  
 Response via : Initial Calibration

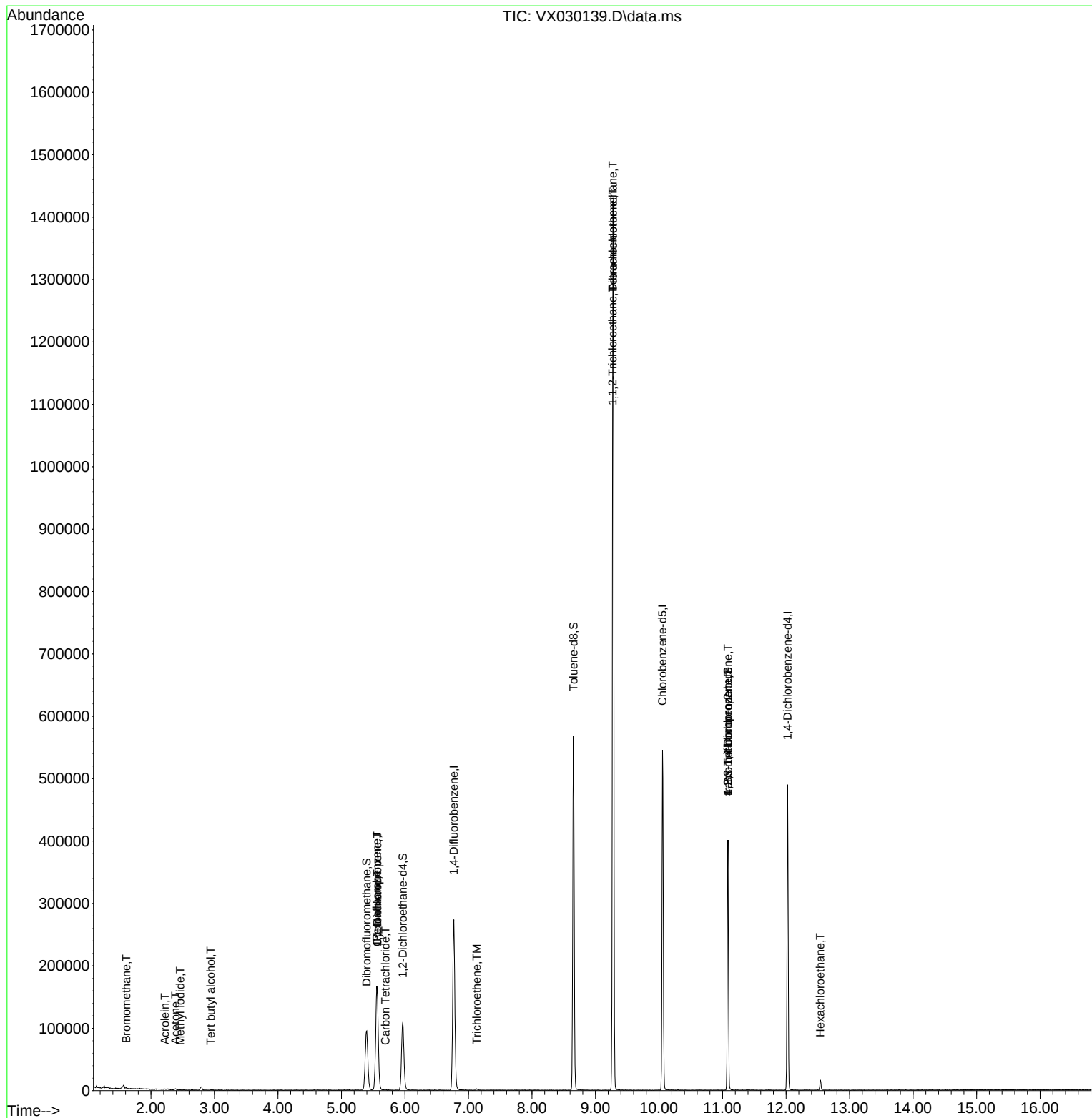
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 156903              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 280659              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 245138              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 100041              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 101631              | 53.216    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 106.440% |           |        |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 85096               | 47.461    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 94.920%  |           |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 330276              | 48.979    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 97.960%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 105890              | 45.250    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 90.500%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 5) Bromomethane               | 1.612          | 94   | 215                 | 0.279     | ug/l # | 71       |
| 10) Methyl Iodide             | 2.459          | 142  | 307                 | 2.594     | ug/l # | 75       |
| 11) Tert butyl alcohol        | 2.941          | 59   | 449                 | 0.911     | ug/l # | 74       |
| 13) Acrolein                  | 2.221          | 56   | 23                  | 0.234     | ug/l # | 1        |
| 16) Acetone                   | 2.386          | 43   | 2166                | 2.407     | ug/l   | 92       |
| 17) Carbon Disulfide          | 2.508          | 76   | 565                 | Below Cal | #      | 74       |
| 20) Methylene Chloride        | 2.794          | 84   | 2566                | Below Cal | #      | 86       |
| 31) Cyclohexane               | 5.562          | 56   | 3562                | 1.287     | ug/l # | 10       |
| 36) 1,1-Dichloropropene       | 5.562          | 75   | 12854               | 5.550     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 5.690          | 117  | 719                 | 0.333     | ug/l # | 48       |
| 44) Trichloroethene           | 7.129          | 130  | 791                 | 0.371     | ug/l   | 78       |
| 55) 1,1,2-Trichloroethane     | 9.269          | 97   | 2103                | 1.102     | ug/l # | 6        |
| 60) Dibromochloromethane      | 9.275          | 129  | 263677              | 141.790   | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275          | 164  | 262805              | 133.552   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 52362               | 22.765    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 52362               | 65.698    | ug/l # | 13       |
| 90) Hexachloroethane          | 12.536         | 117  | 2347                | 2.300     | ug/l   | 99       |
| -----                         |                |      |                     |           |        |          |

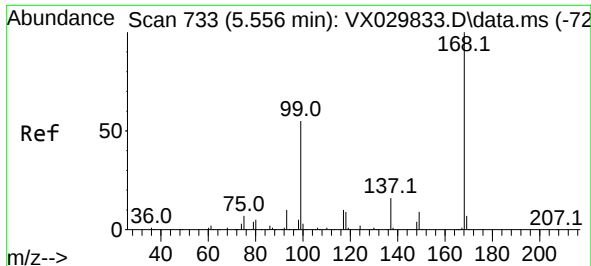
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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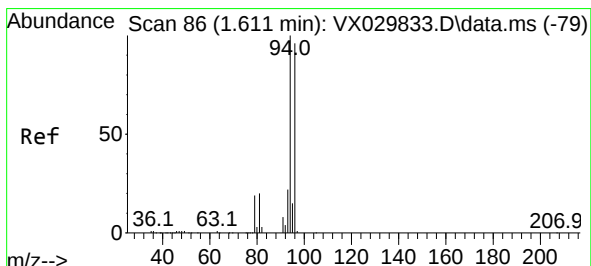
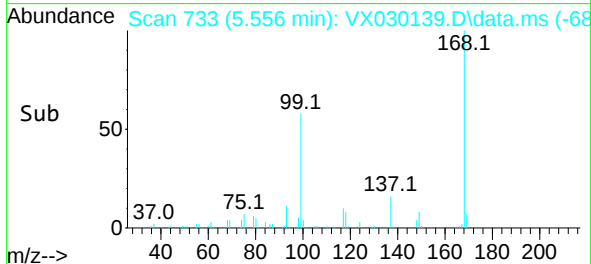
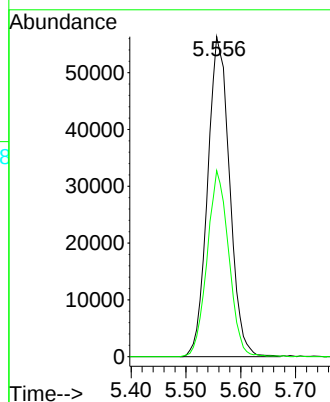
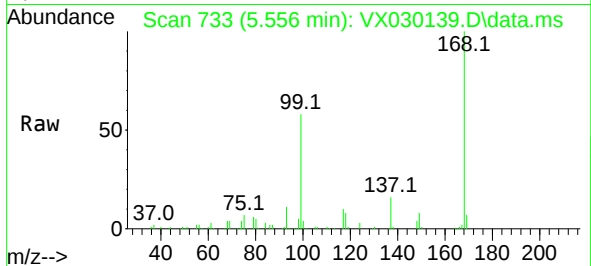




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

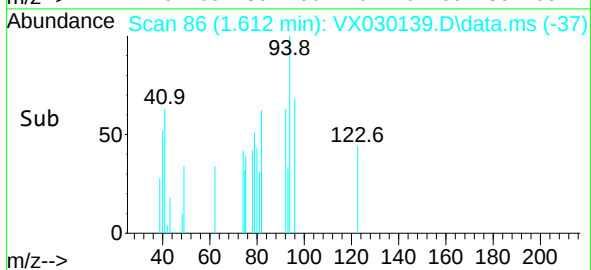
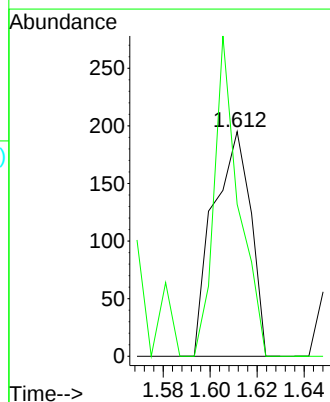
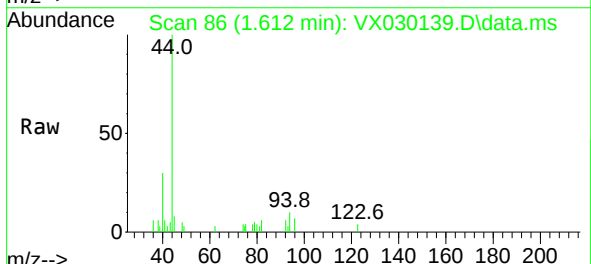
Instrument :  
MSVOA\_X  
ClientSampleId :  
SPC-01BN-84

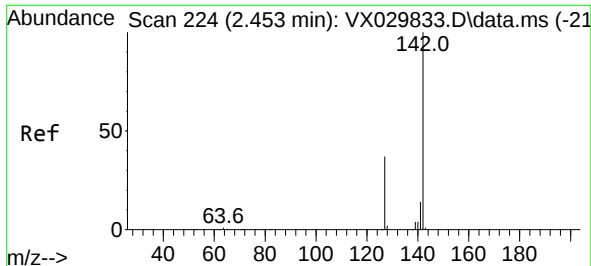
Tgt Ion:168 Resp: 156903  
Ion Ratio Lower Upper  
168 100  
99 58.2 44.0 66.0



#5  
Bromomethane  
Concen: 0.279 ug/l  
RT: 1.612 min Scan# 86  
Delta R.T. 0.001 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

Tgt Ion: 94 Resp: 215  
Ion Ratio Lower Upper  
94 100  
96 67.7 76.9 115.3#





#10

Methyl Iodide

Concen: 2.594 ug/l

RT: 2.459 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX030139.D

Acq: 20 Jul 2022 17:57

Instrument :

MSVOA\_X

ClientSampleId :

SPC-01BN-84

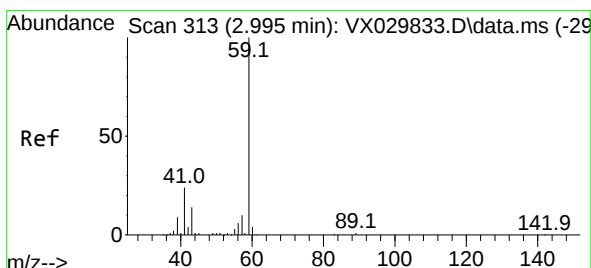
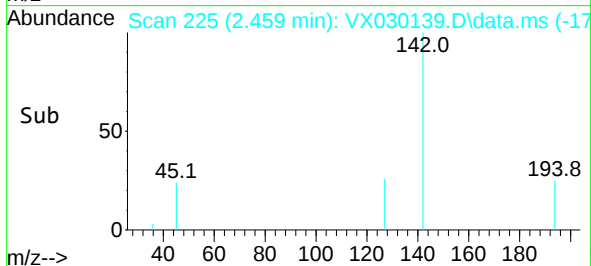
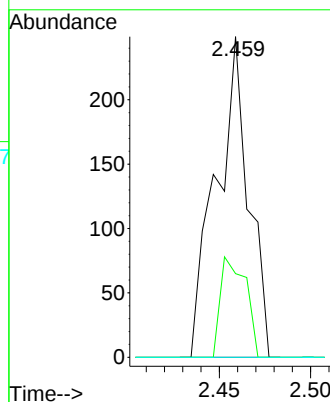
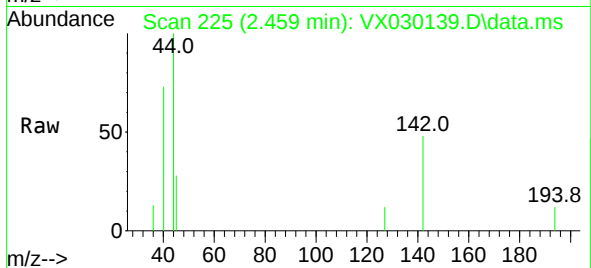
Tgt Ion:142 Resp: 307

Ion Ratio Lower Upper

142 100

127 24.4 30.2 45.2#

141 0.0 11.3 16.9#



#11

Tert butyl alcohol

Concen: 0.911 ug/l

RT: 2.941 min Scan# 304

Delta R.T. -0.054 min

Lab File: VX030139.D

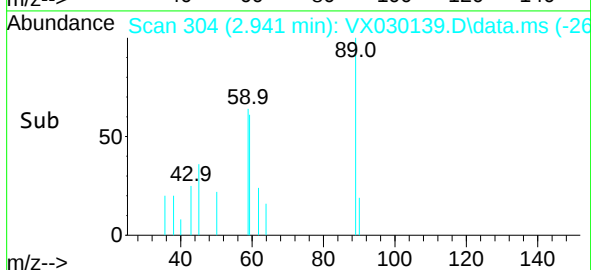
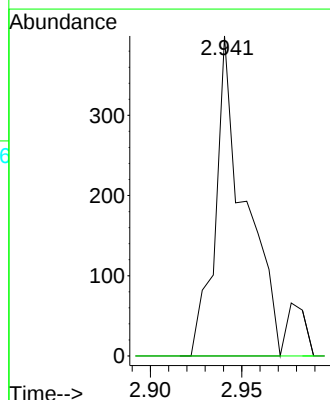
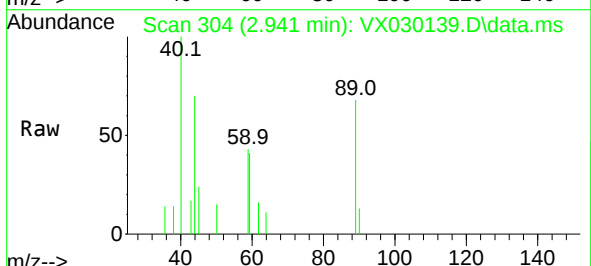
Acq: 20 Jul 2022 17:57

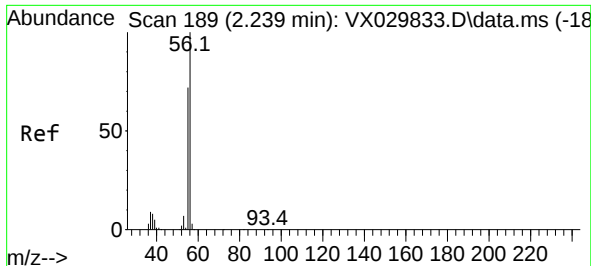
Tgt Ion: 59 Resp: 449

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#





#13

Acrolein

Concen: 0.234 ug/l

RT: 2.221 min Scan# 11

Delta R.T. -0.018 min

Lab File: VX030139.D

Acq: 20 Jul 2022 17:57

Instrument :

MSVOA\_X

ClientSampleId :

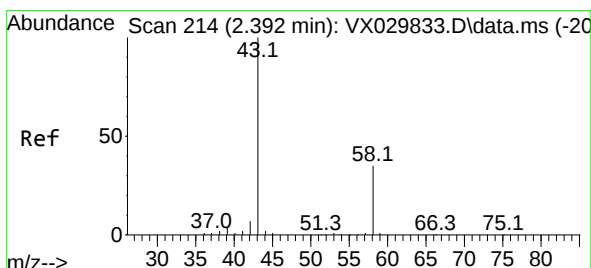
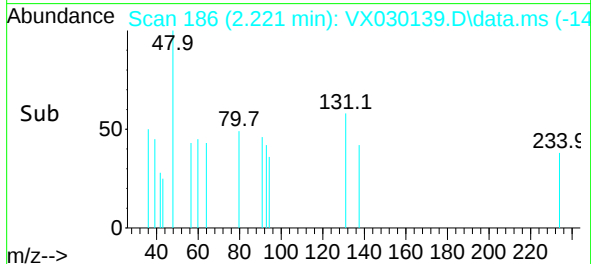
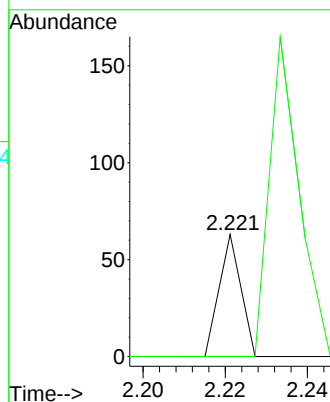
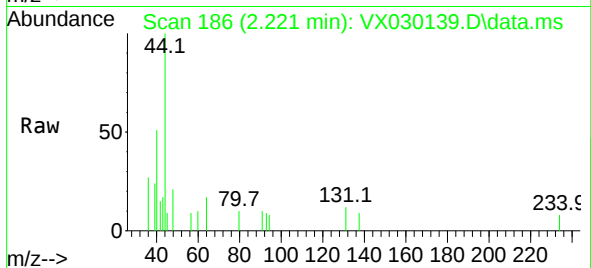
SPC-01BN-84

Tgt Ion: 56 Resp: 23

Ion Ratio Lower Upper

56 100

55 360.9 56.6 84.8#



#16

Acetone

Concen: 2.407 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX030139.D

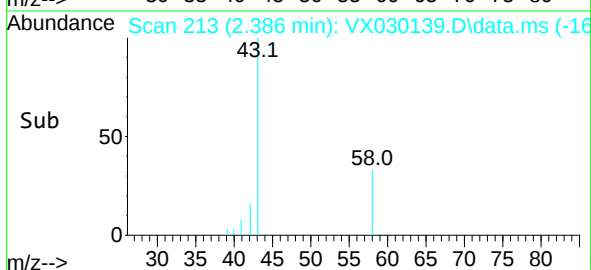
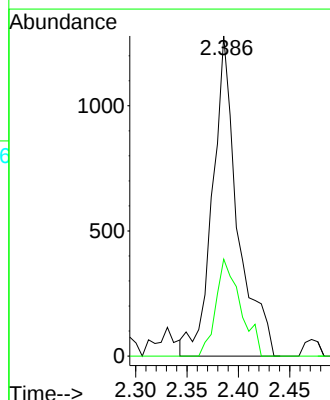
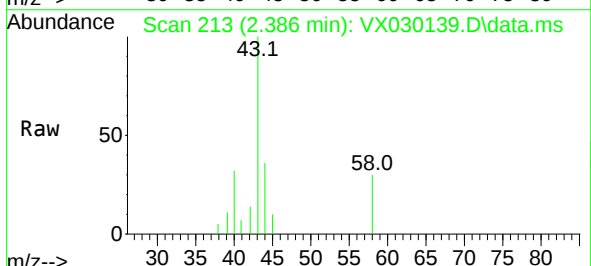
Acq: 20 Jul 2022 17:57

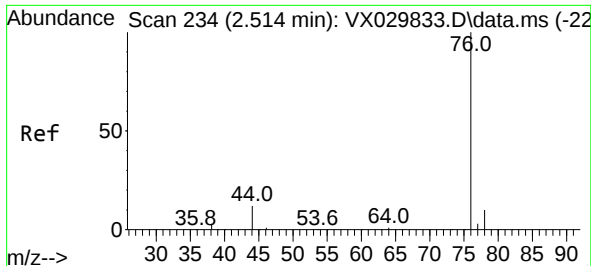
Tgt Ion: 43 Resp: 2166

Ion Ratio Lower Upper

43 100

58 30.3 27.7 41.5





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.508 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX030139.D

Acq: 20 Jul 2022 17:57

Instrument :

MSVOA\_X

ClientSampleId :

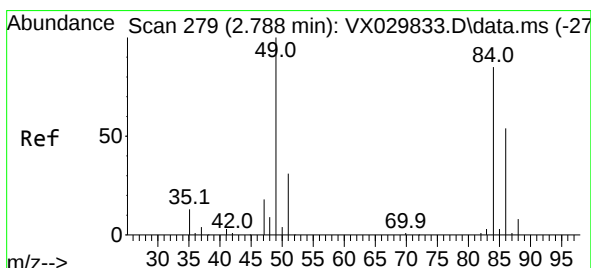
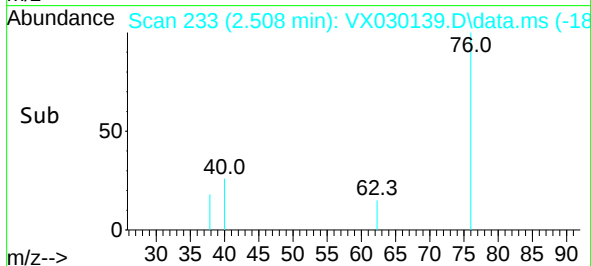
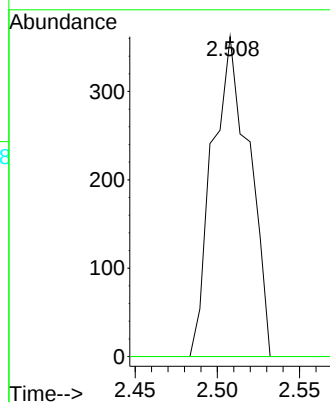
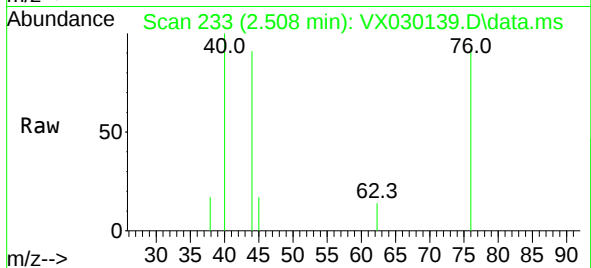
SPC-01BN-84

Tgt Ion: 76 Resp: 565

Ion Ratio Lower Upper

76 100

78 0.0 7.8 11.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.794 min Scan# 280

Delta R.T. 0.006 min

Lab File: VX030139.D

Acq: 20 Jul 2022 17:57

Tgt Ion: 84 Resp: 2566

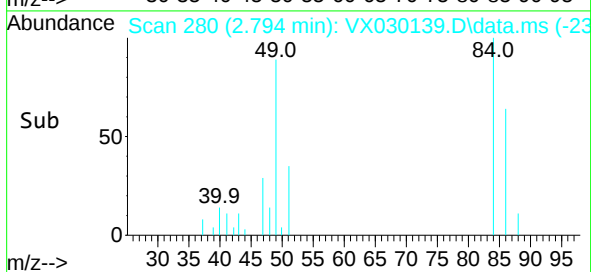
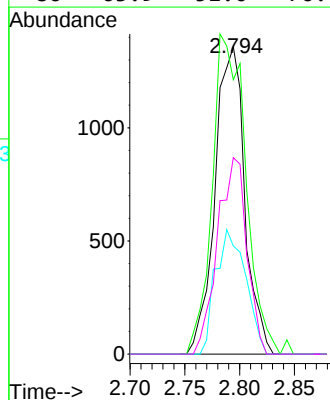
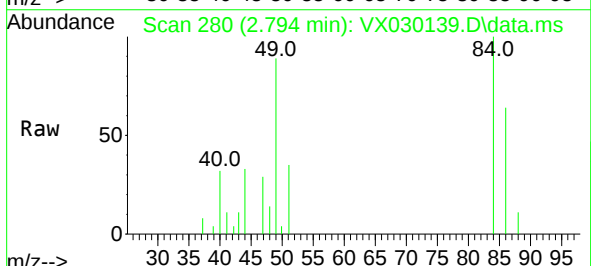
Ion Ratio Lower Upper

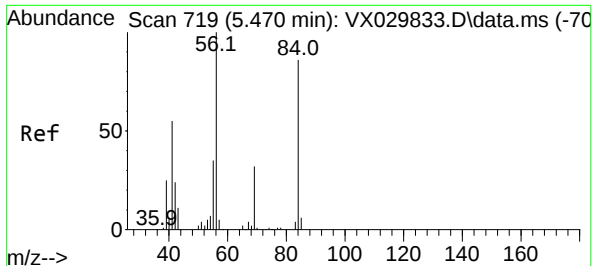
84 100

49 89.3 93.8 140.6#

51 35.2 29.4 44.0

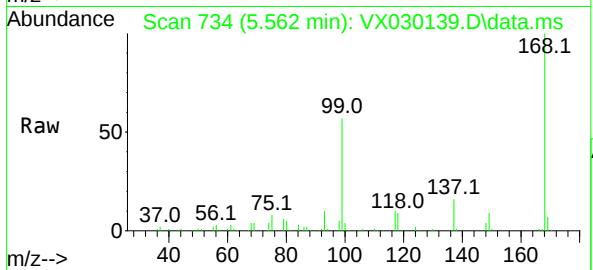
86 63.9 51.0 76.4



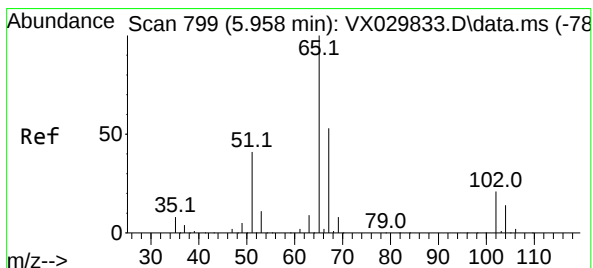
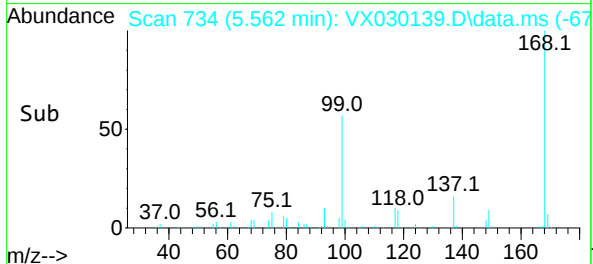
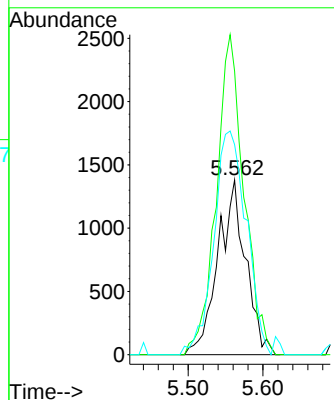


#31  
Cyclohexane  
Concen: 1.287 ug/l  
RT: 5.562 min Scan# 719  
Delta R.T. 0.092 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

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ClientSampleId :  
SPC-01BN-84

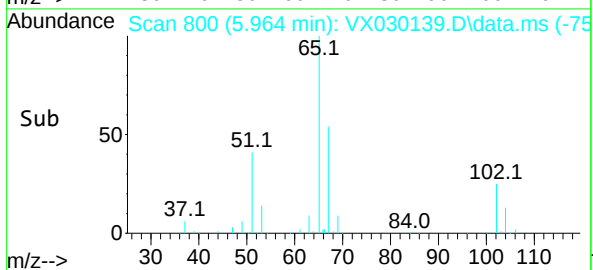
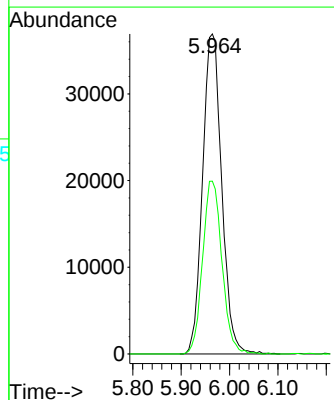
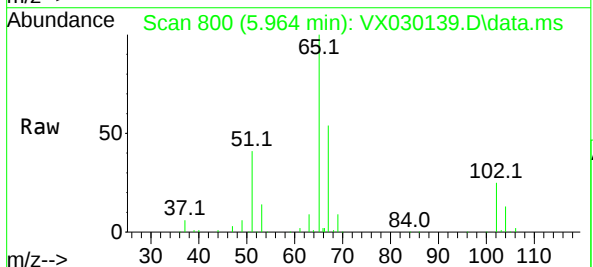


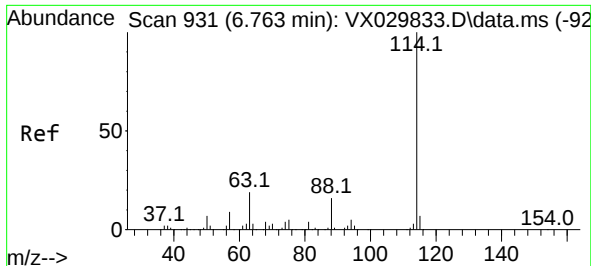
Tgt Ion: 56 Resp: 3562  
Ion Ratio Lower Upper  
56 100  
69 162.3 25.4 38.0#  
84 120.2 68.9 103.3#



#33  
1,2-Dichloroethane-d4  
Concen: 53.216 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.006 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

Tgt Ion: 65 Resp: 101631  
Ion Ratio Lower Upper  
65 100  
67 54.6 0.0 109.6

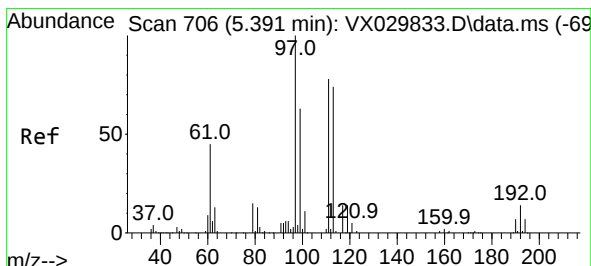
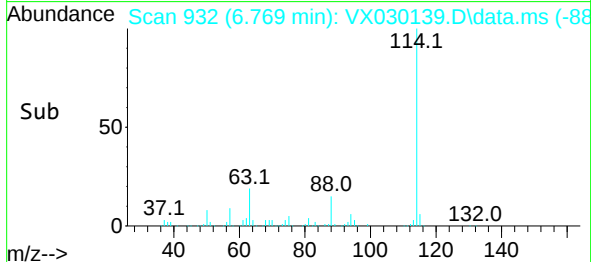
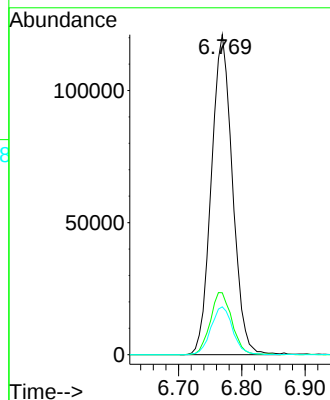
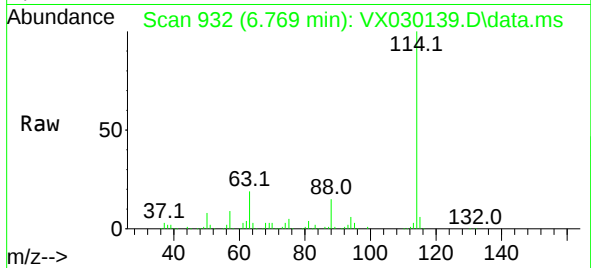




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

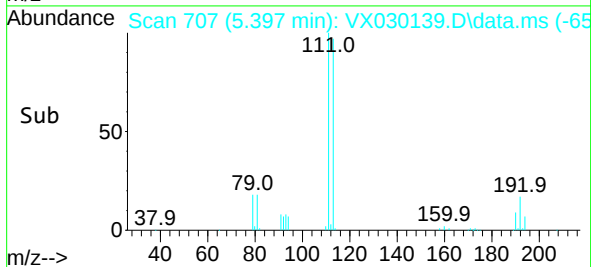
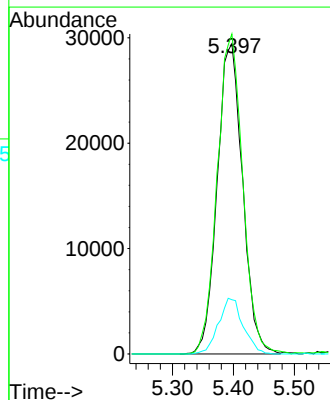
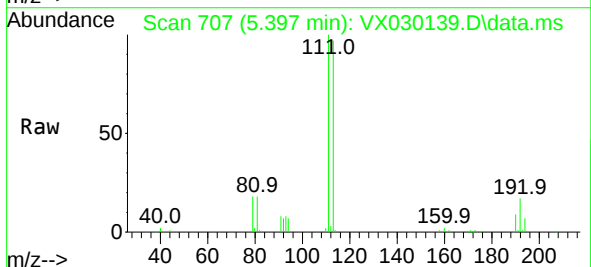
Instrument :  
MSVOA\_X  
ClientSampleId :  
SPC-01BN-84

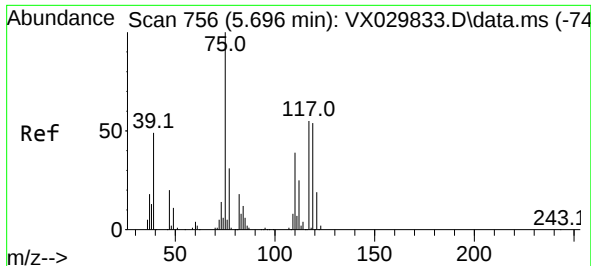
Tgt Ion:114 Resp: 280659  
Ion Ratio Lower Upper  
114 100  
63 19.4 0.0 38.4  
88 14.9 0.0 31.8



#35  
Dibromofluoromethane  
Concen: 47.461 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.006 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

Tgt Ion:113 Resp: 85096  
Ion Ratio Lower Upper  
113 100  
111 103.8 83.2 124.8  
192 17.4 14.8 22.2





#36

1,1-Dichloropropene

Concen: 5.550 ug/l

RT: 5.562 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX030139.D

Acq: 20 Jul 2022 17:57

Instrument :

MSVOA\_X

ClientSampleId :

SPC-01BN-84

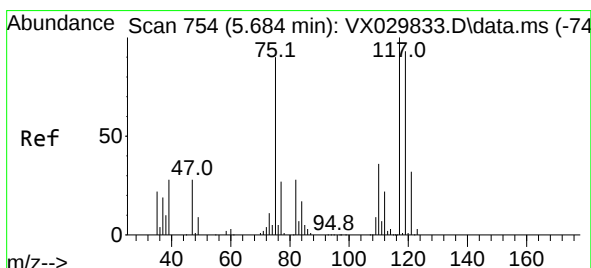
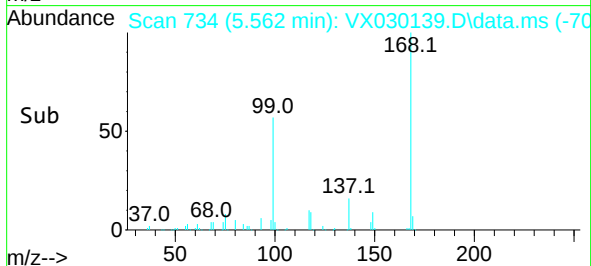
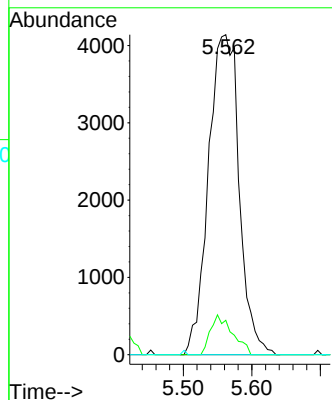
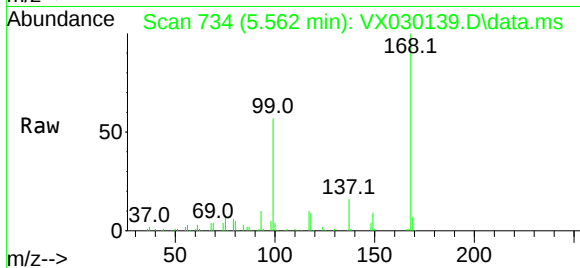
Tgt Ion: 75 Resp: 12854

Ion Ratio Lower Upper

75 100

110 9.0 19.3 57.9#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 0.333 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.006 min

Lab File: VX030139.D

Acq: 20 Jul 2022 17:57

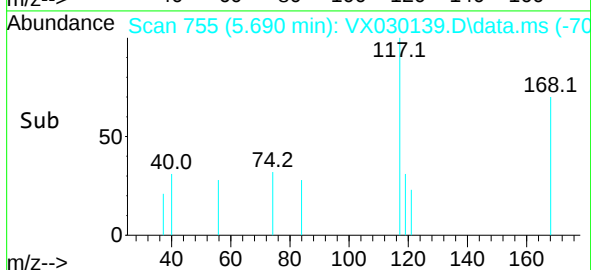
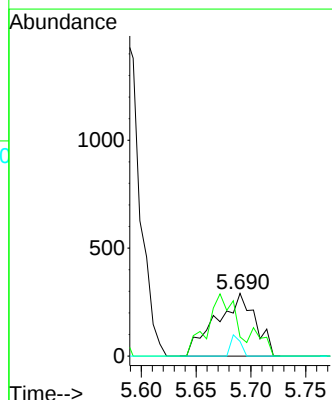
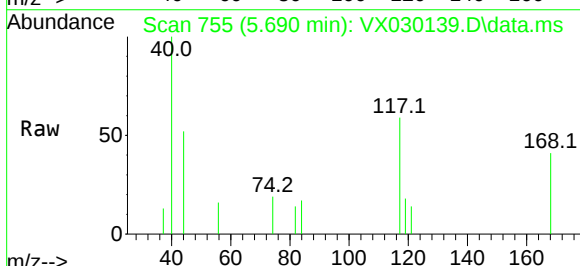
Tgt Ion: 117 Resp: 719

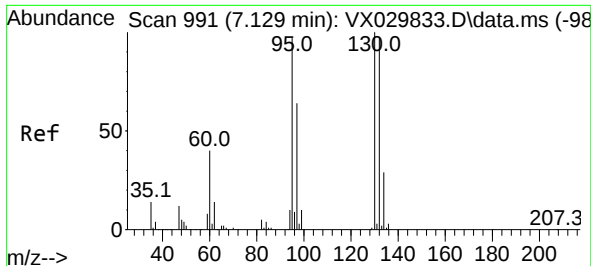
Ion Ratio Lower Upper

117 100

119 30.7 74.1 111.1#

121 23.4 25.8 38.8#

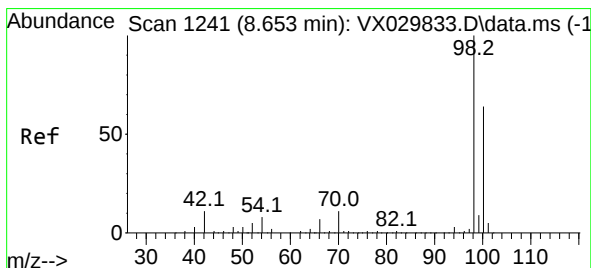
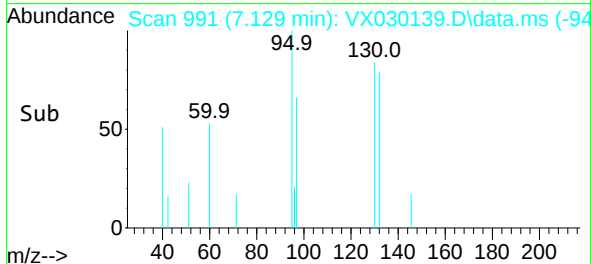
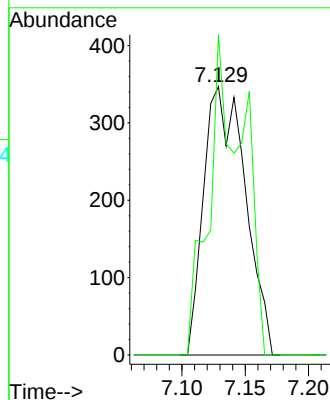
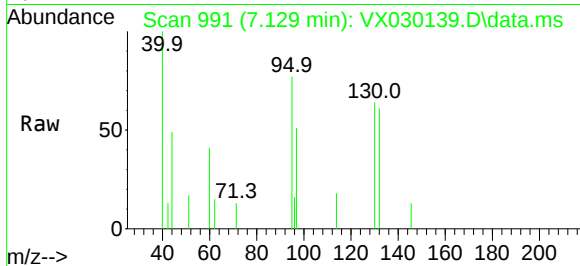




#44  
Trichloroethene  
Concen: 0.371 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

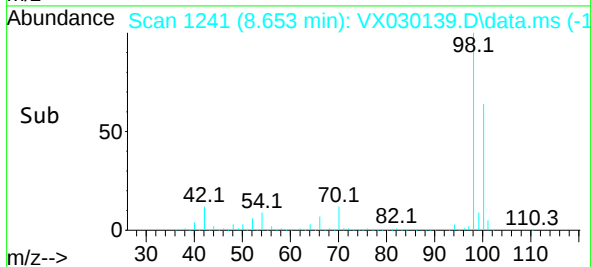
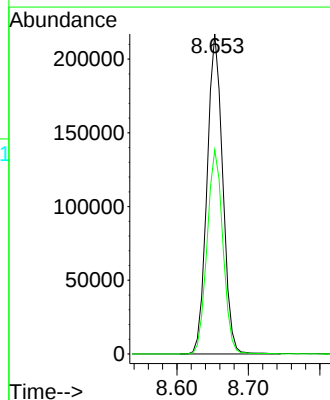
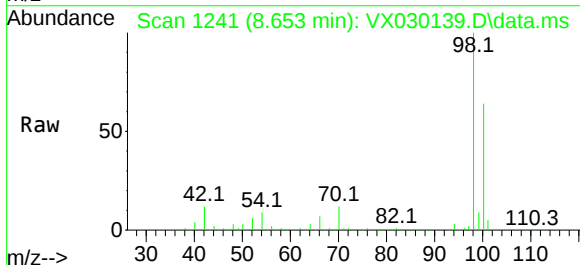
Instrument :  
MSVOA\_X  
ClientSampleId :  
SPC-01BN-84

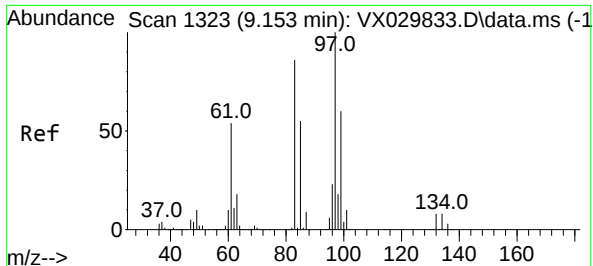
Tgt Ion:130 Resp: 791  
Ion Ratio Lower Upper  
130 100  
95 119.3 0.0 194.8



#50  
Toluene-d8  
Concen: 48.979 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

Tgt Ion: 98 Resp: 330276  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.3 78.5





#55

1,1,2-Trichloroethane

Concen: 1.102 ug/l

RT: 9.269 min Scan# 1

Delta R.T. 0.116 min

Lab File: VX030139.D

Acq: 20 Jul 2022 17:57

Instrument :

MSVOA\_X

ClientSampleId :

SPC-01BN-84

Tgt Ion: 97 Resp: 2103

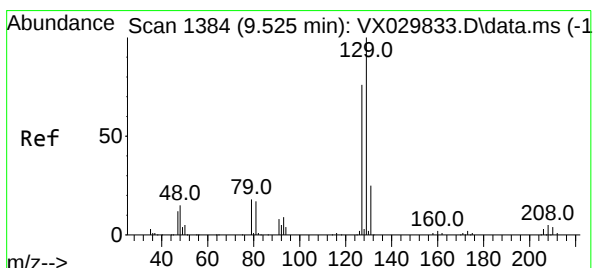
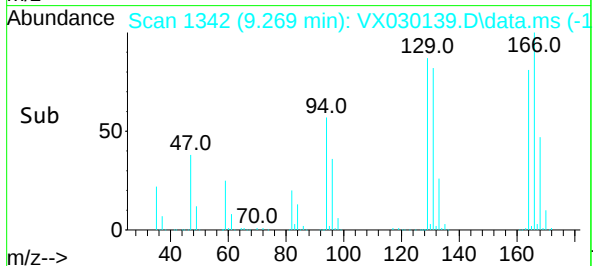
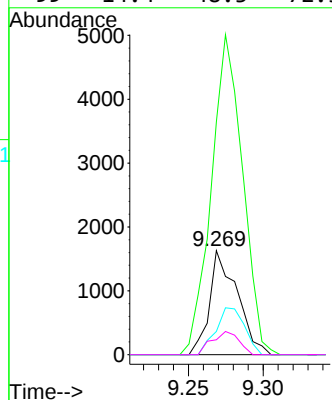
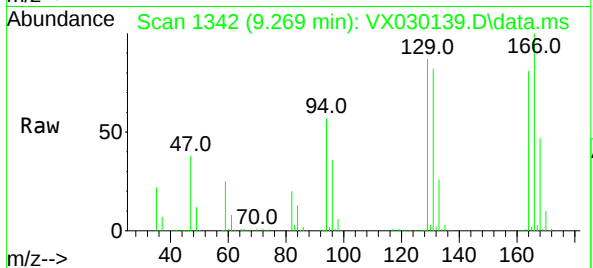
Ion Ratio Lower Upper

97 100

83 223.7 68.9 103.3#

85 22.4 44.0 66.0#

99 14.4 48.3 72.5#



#60

Dibromochloromethane

Concen: 141.790 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.250 min

Lab File: VX030139.D

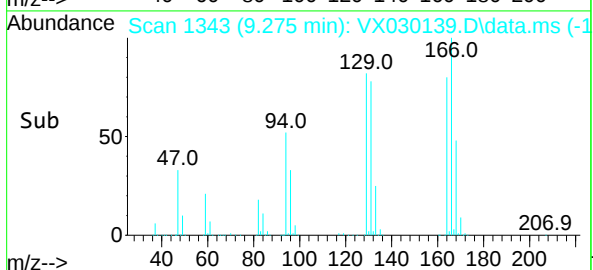
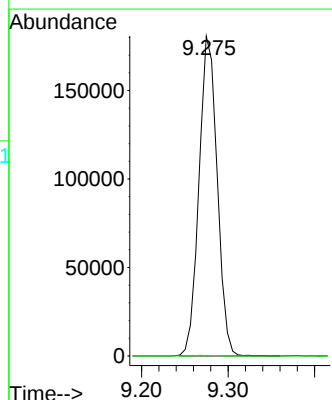
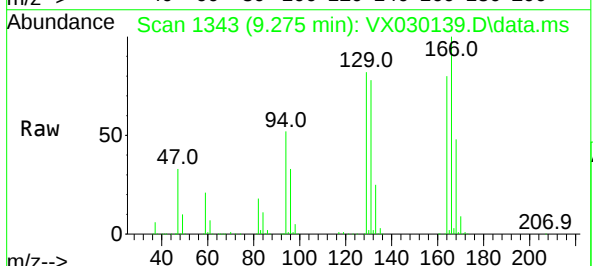
Acq: 20 Jul 2022 17:57

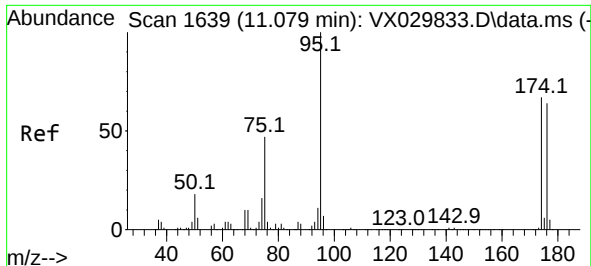
Tgt Ion:129 Resp: 263677

Ion Ratio Lower Upper

129 100

127 0.1 38.5 115.5#

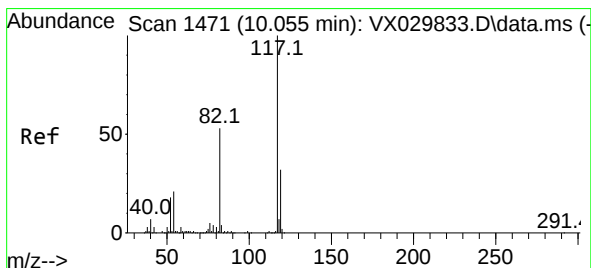
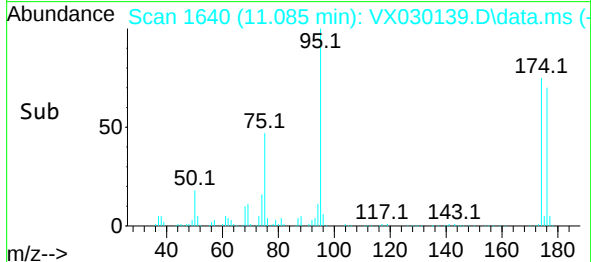
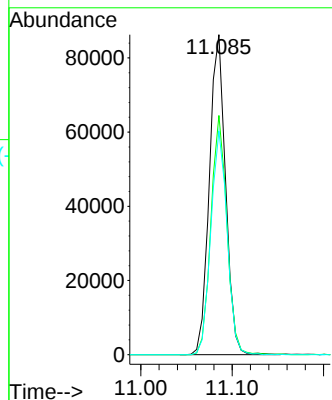
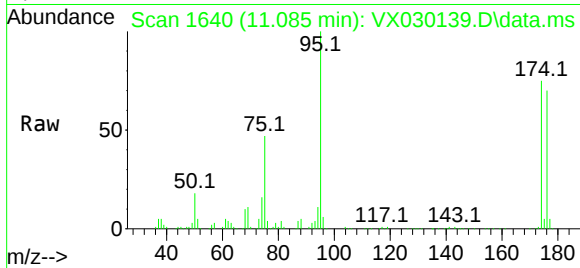




#62  
4-Bromofluorobenzene  
Concen: 45.250 ug/l  
RT: 11.085 min Scan# 1639  
Delta R.T. 0.006 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

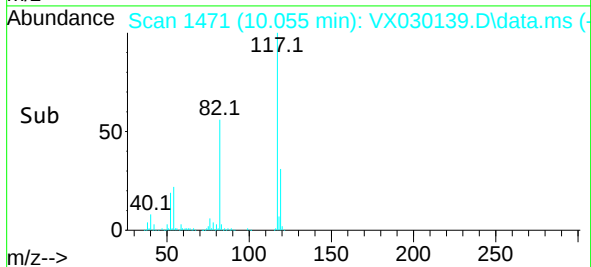
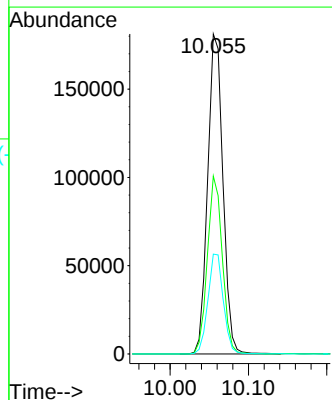
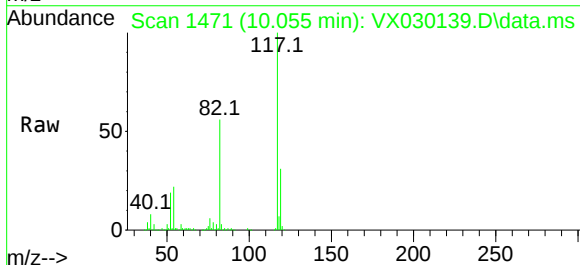
Instrument :  
MSVOA\_X  
ClientSampleId :  
SPC-01BN-84

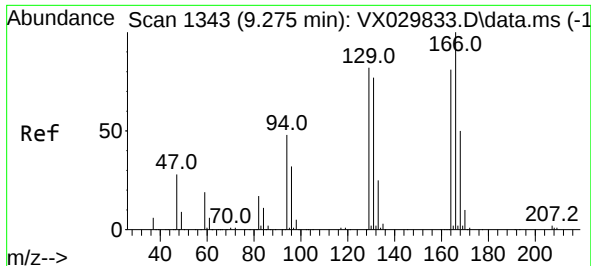
Tgt Ion: 95 Resp: 105890  
Ion Ratio Lower Upper  
95 100  
174 73.8 0.0 149.0  
176 70.1 0.0 146.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

Tgt Ion: 117 Resp: 245138  
Ion Ratio Lower Upper  
117 100  
82 55.6 42.7 64.1  
119 31.2 25.4 38.2

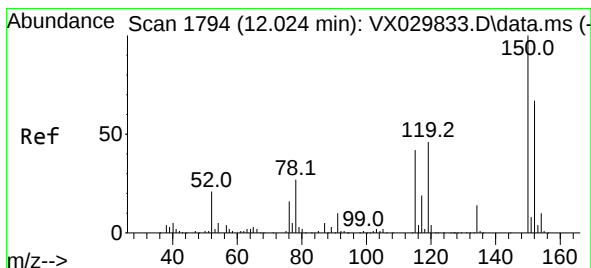
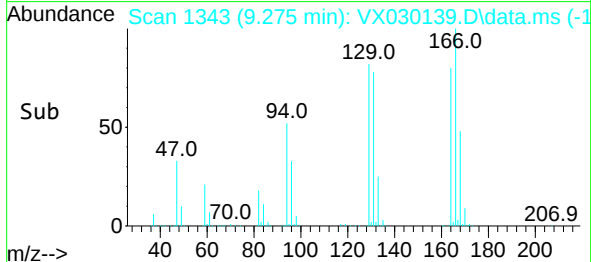
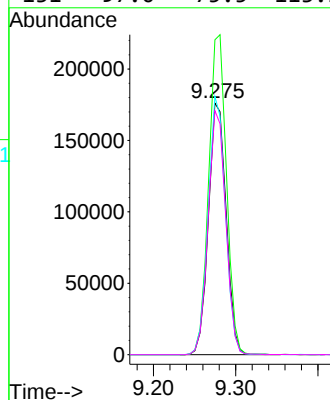
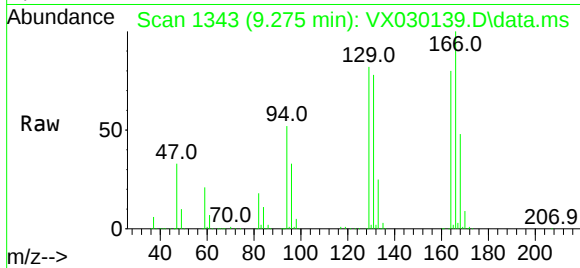




#64  
Tetrachloroethene  
Concen: 133.552 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

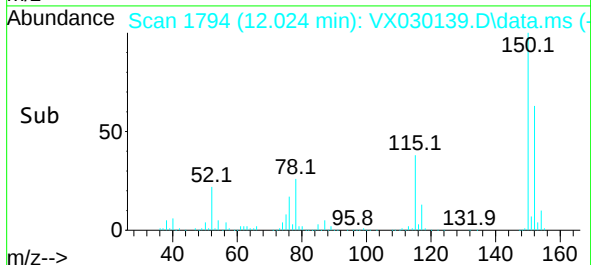
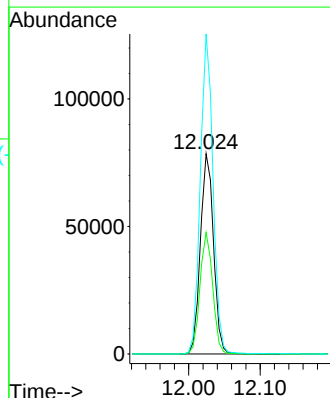
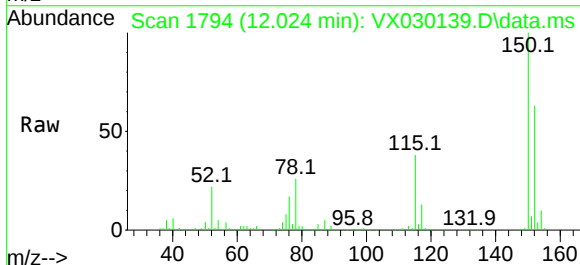
Instrument :  
MSVOA\_X  
ClientSampleId :  
SPC-01BN-84

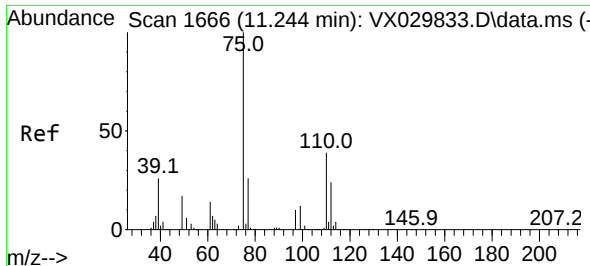
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 262805 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 166      | 125.2 | 98.2  | 147.4  |
| 129      | 102.7 | 80.8  | 121.2  |
| 131      | 97.0  | 75.5  | 113.3  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 152   | Resp: | 100041 |
| Ion      | Ratio | Lower | Upper  |
| 152      | 100   |       |        |
| 115      | 58.6  | 40.5  | 121.5  |
| 150      | 154.1 | 0.0   | 347.0  |

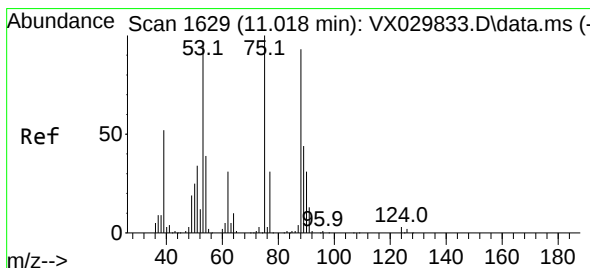
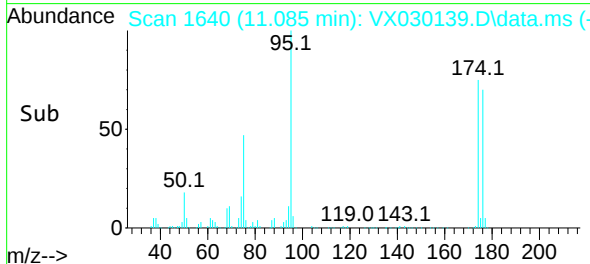
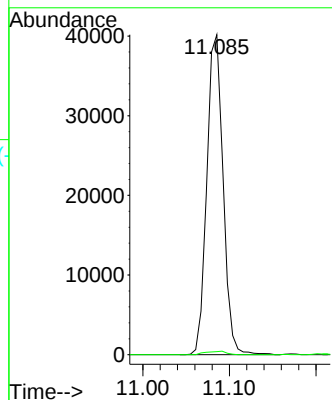
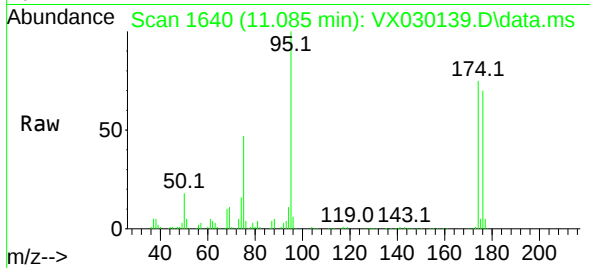




#76  
1,2,3-Trichloropropane  
Concen: 22.765 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

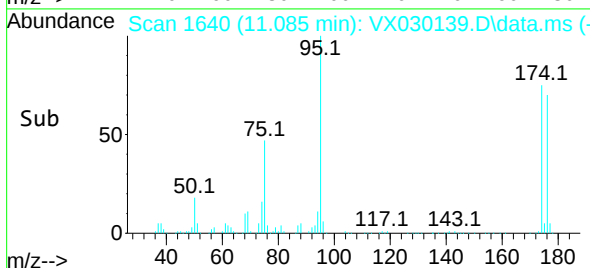
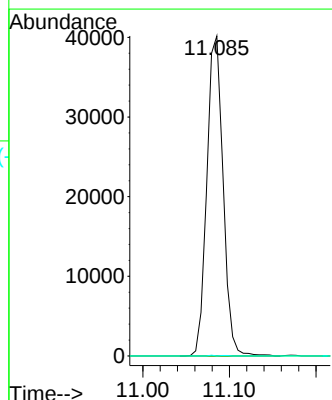
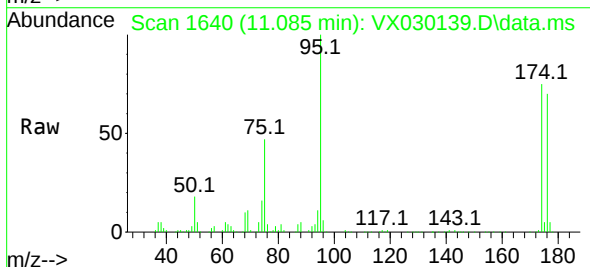
Instrument :  
MSVOA\_X  
ClientSampleId :  
SPC-01BN-84

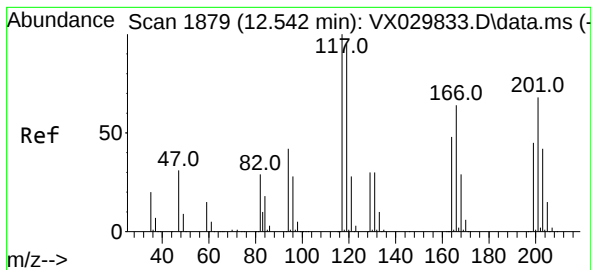
Tgt Ion: 75 Resp: 52362  
Ion Ratio Lower Upper  
75 100  
77 1.4 19.8 59.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.698 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.067 min  
Lab File: VX030139.D  
Acq: 20 Jul 2022 17:57

Tgt Ion: 75 Resp: 52362  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.2 111.4#  
89 0.1 34.8 52.2#





#90

Hexachloroethane

Concen: 2.300 ug/l

RT: 12.536 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX030139.D

Acq: 20 Jul 2022 17:57

Instrument :

MSVOA\_X

ClientSampleId :

SPC-01BN-84

Tgt Ion:117 Resp: 2347

Ion Ratio Lower Upper

117 100

201 67.6 34.2 102.5

