

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV111324\  
 Data File : VV038036.D  
 Acq On : 13 Nov 2024 10:59  
 Operator : SY/MD  
 Sample : P4749-22DL 2X  
 Misc : 25mL/MSVOA\_V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 GCP95DL

Quant Time: Nov 13 23:11:05 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111224WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Nov 13 00:39:48 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) 1,4-Difluorobenzene     | 5.526  | 114  | 273255   | 5.000 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.776  | 117  | 274989   | 5.000 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.175 | 152  | 135075   | 5.000 | ug/L  | 0.00     |

|                               |        |       |          |          |      |         |
|-------------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds   |        |       |          |          |      |         |
| 4) Vinyl Chloride-d3          | 1.275  | 65    | 108510   | 4.562    | ug/L | 0.00    |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =    | 91.200% |
| 7) Chloroethane-d5            | 1.529  | 69    | 90713    | 4.679    | ug/L | 0.00    |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =    | 93.600% |
| 11) 1,1-Dichloroethene-d2     | 2.050  | 65    | 45793    | 4.394    | ug/L | 0.00    |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =    | 87.800% |
| 20) 2-Butanone-d5             | 3.825  | 46    | 211468   | 38.690   | ug/L | 0.01    |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =    | 77.380% |
| 24) Chloroform-d              | 4.236  | 84    | 205609   | 4.586    | ug/L | 0.00    |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =    | 91.800% |
| 26) 1,2-Dichloroethane-d4     | 4.934  | 65    | 98331    | 4.618    | ug/L | 0.00    |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =    | 92.400% |
| 32) Benzene-d6                | 4.947  | 84    | 388388   | 4.571    | ug/L | 0.00    |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =    | 91.400% |
| 36) 1,2-Dichloropropane-d6    | 5.979  | 67    | 122843   | 4.615    | ug/L | 0.00    |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =    | 92.400% |
| 41) Toluene-d8                | 7.233  | 98    | 326657   | 4.204    | ug/L | 0.00    |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =    | 84.000% |
| 43) trans-1,3-Dichloroprop... | 7.551  | 79    | 45977    | 4.261    | ug/L | 0.00    |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =    | 85.200% |
| 46) 2-Hexanone-d5             | 8.021  | 63    | 196534   | 40.746   | ug/L | 0.00    |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =    | 81.500% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.146 | 84    | 94725    | 4.302    | ug/L | 0.00    |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =    | 86.000% |
| 66) 1,2-Dichlorobenzene-d4    | 11.551 | 152   | 137166   | 4.884    | ug/L | 0.00    |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =    | 97.600% |

|                              |       |     |        |        |      |     |
|------------------------------|-------|-----|--------|--------|------|-----|
| Target Compounds             |       |     |        | Qvalue |      |     |
| 5) Vinyl chloride            | 1.278 | 62  | 497566 | 17.934 | ug/L | 98  |
| 12) 1,1-Dichloroethene       | 2.063 | 96  | 161679 | 7.783  | ug/L | 84  |
| 16) Methylene chloride       | 2.439 | 84  | 121523 | 4.940  | ug/L | 98  |
| 18) trans-1,2-Dichloroethene | 2.687 | 96  | 73919  | 3.288  | ug/L | 96  |
| 22) cis-1,2-Dichloroethene   | 3.809 | 96  | 24100  | 1.020  | ug/L | 95  |
| 27) 1,2-Dichloroethane       | 5.040 | 62  | 48101  | 2.006  | ug/L | 99  |
| 29) 1,1,1-Trichloroethane    | 4.497 | 97  | 304789 | 8.210  | ug/L | 98  |
| 31) Carbon tetrachloride     | 4.722 | 117 | 53674  | 1.660  | ug/L | 97  |
| 33) Benzene                  | 5.002 | 78  | 106272 | 1.215  | ug/L | 100 |
| 34) Trichloroethene          | 5.825 | 95  | 72494  | 3.032  | ug/L | 99  |
| 37) 1,2-Dichloropropane      | 6.082 | 63  | 82548  | 3.816  | ug/L | 99  |
| 42) Toluene                  | 7.307 | 91  | 371594 | 4.067  | ug/L | 99  |
| 45) 1,1,2-Trichloroethane    | 7.760 | 97  | 90561  | 5.218  | ug/L | 99  |
| 47) Tetrachloroethene        | 7.895 | 164 | 138490 | 7.382  | ug/L | 96  |
| 51) Chlorobenzene            | 8.805 | 112 | 455718 | 7.320  | ug/L | 99  |
| 52) Ethylbenzene             | 8.940 | 91  | 101796 | 1.026  | ug/L | 98  |
| 53) m,p-Xylene               | 9.063 | 106 | 270296 | 7.224  | ug/L | 97  |
| 54) o-Xylene                 | 9.471 | 106 | 63463  | 1.753  | ug/L | 100 |
| 55) Styrene                  | 9.493 | 104 | 75769  | 1.201  | ug/L | 99  |

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Operator : SY/MD  
Sample : P4749-22DL 2X  
Misc : 25mL/MSVOA\_V/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
GCP95DL

Quant Time: Nov 13 23:11:05 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111224WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Nov 13 00:39:48 2024  
Response via : Initial Calibration

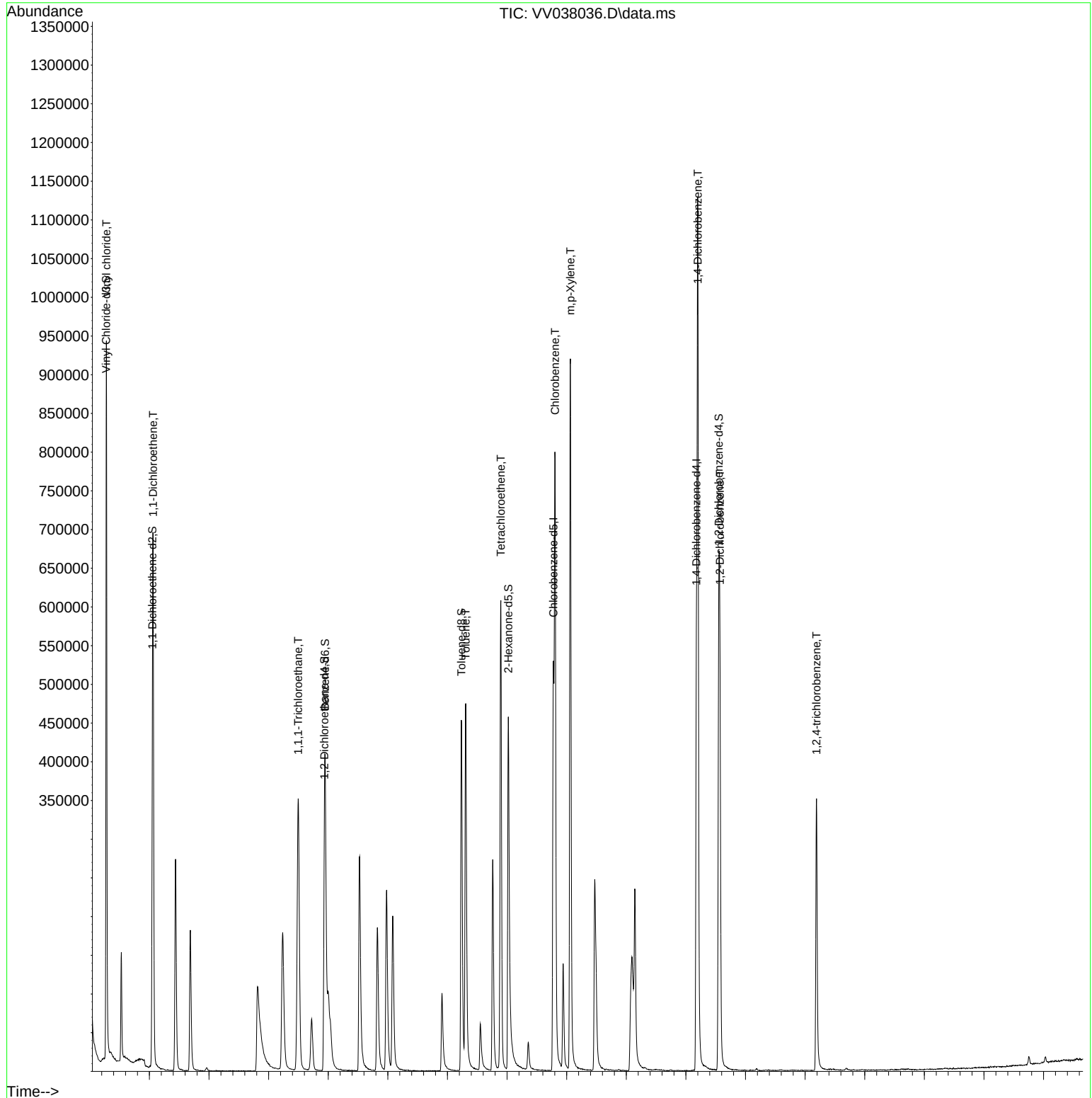
| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| 65) 1,4-Dichlorobenzene    | 11.201 | 146  | 452921   | 9.472 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene    | 11.570 | 146  | 208196   | 4.790 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene | 13.191 | 180  | 114696   | 3.779 | ug/L  | 97       |

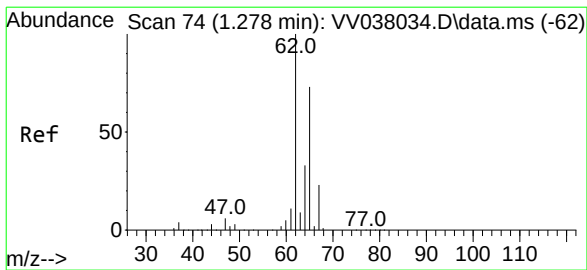
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 17.934 ug/L

RT: 1.278 min Scan# 74

Delta R.T. 0.000 min

Lab File: VV038036.D

Acq: 13 Nov 2024 10:59

Instrument :

MSVOA\_V

ClientSampleId :

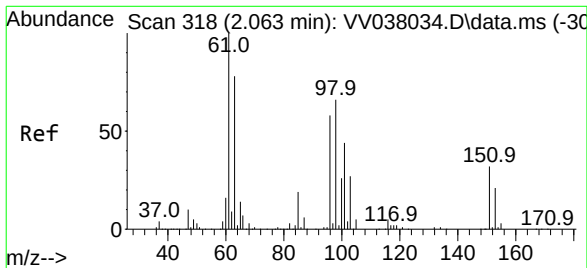
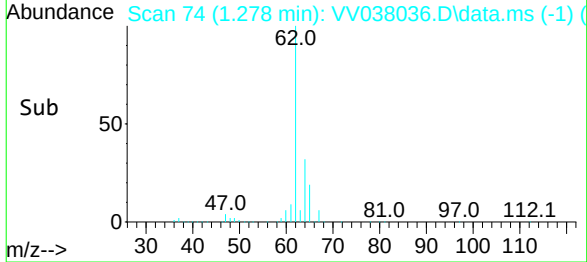
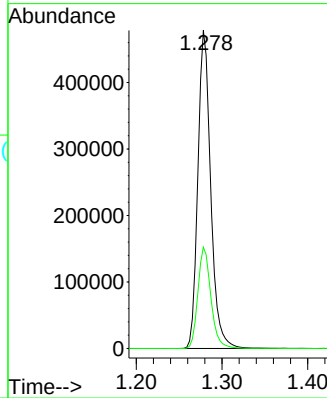
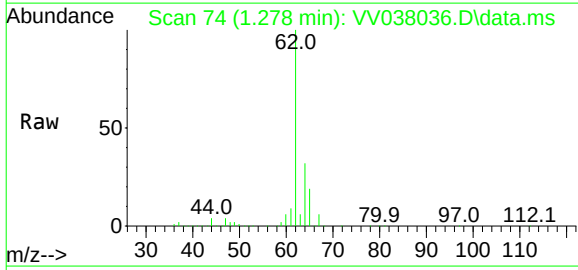
GCP95DL

Tgt Ion: 62 Resp: 497566

Ion Ratio Lower Upper

62 100

64 31.9 23.0 42.6



#12

1,1-Dichloroethene

Concen: 7.783 ug/L

RT: 2.063 min Scan# 318

Delta R.T. 0.003 min

Lab File: VV038036.D

Acq: 13 Nov 2024 10:59

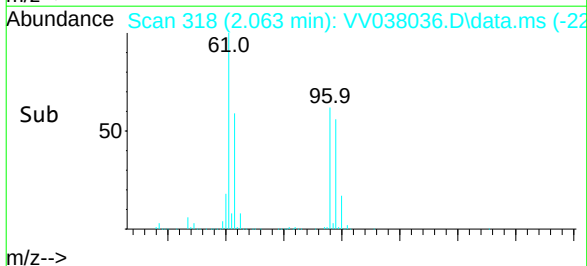
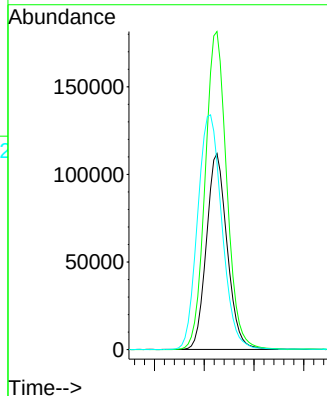
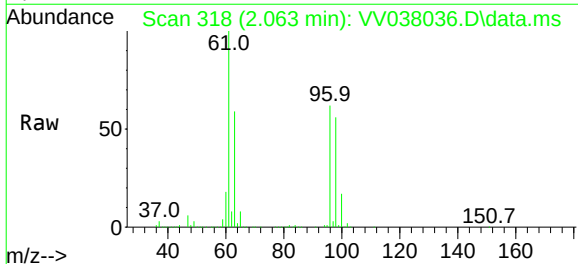
Tgt Ion: 96 Resp: 161679

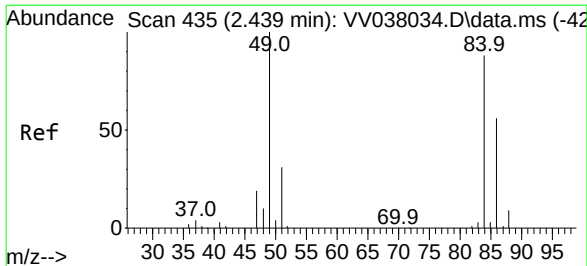
Ion Ratio Lower Upper

96 100

61 162.2 118.1 219.3

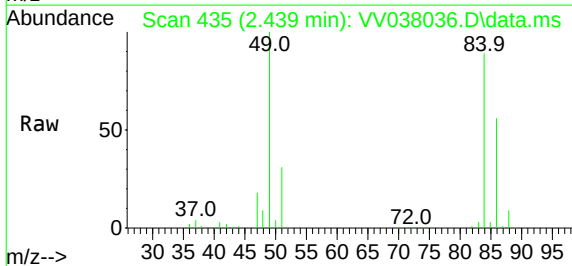
63 95.3 91.4 169.8



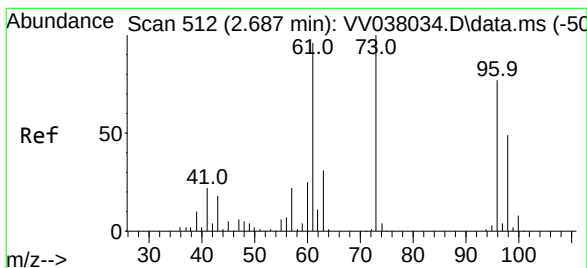
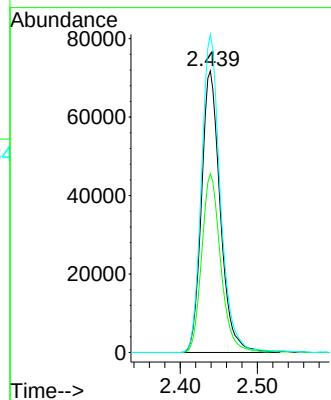
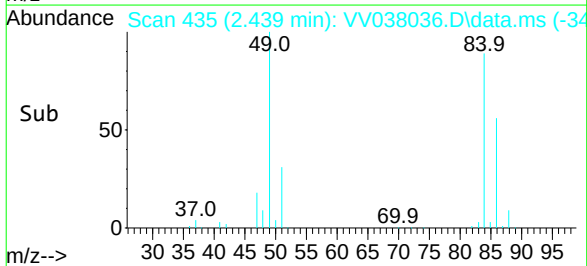


#16  
Methylene chloride  
Concen: 4.940 ug/L  
RT: 2.439 min Scan# 435  
Delta R.T. 0.000 min  
Lab File: VV038036.D  
Acq: 13 Nov 2024 10:59

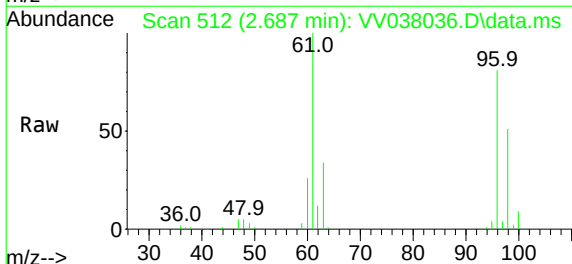
Instrument :  
MSVOA\_V  
ClientSampleId :  
GCP95DL



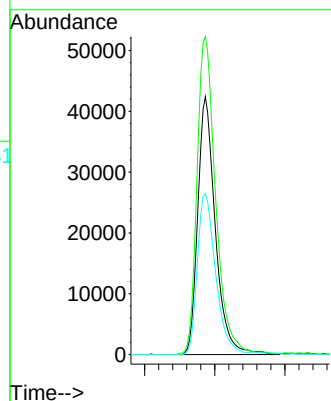
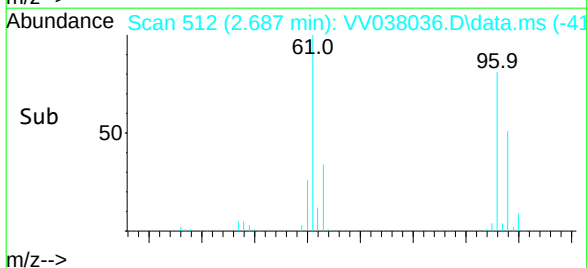
Tgt Ion: 84 Resp: 121523  
Ion Ratio Lower Upper  
84 100  
86 63.5 44.4 82.5  
49 113.0 77.1 143.3

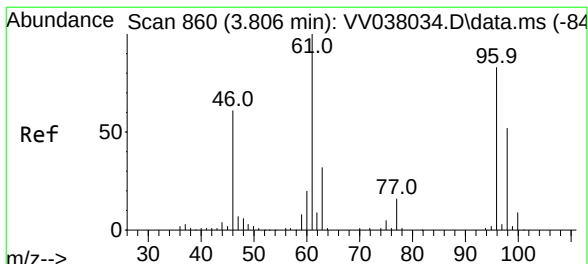


#18  
trans-1,2-Dichloroethene  
Concen: 3.288 ug/L  
RT: 2.687 min Scan# 512  
Delta R.T. -0.000 min  
Lab File: VV038036.D  
Acq: 13 Nov 2024 10:59



Tgt Ion: 96 Resp: 73919  
Ion Ratio Lower Upper  
96 100  
61 123.3 90.2 167.6  
98 62.4 45.7 84.9

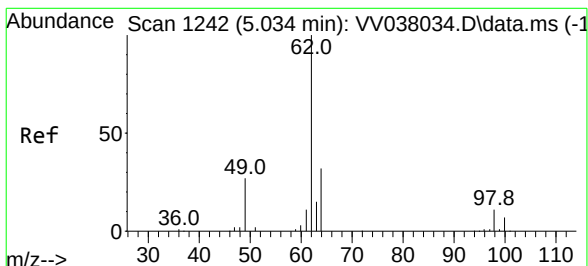
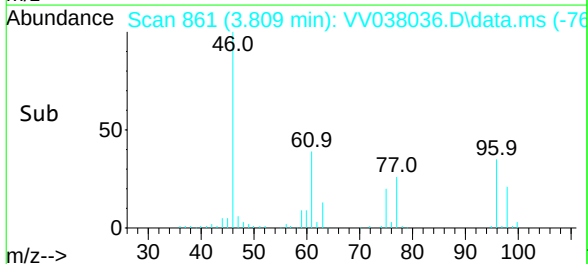
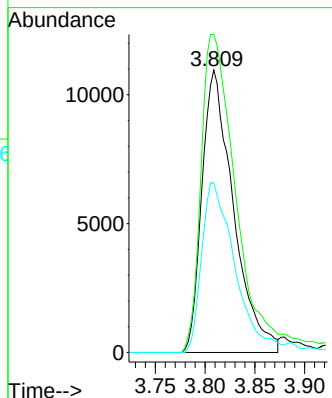
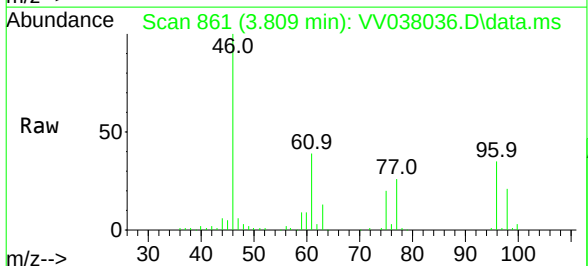




#22  
 cis-1,2-Dichloroethene  
 Concen: 1.020 ug/L  
 RT: 3.809 min Scan# 861  
 Delta R.T. 0.006 min  
 Lab File: VV038036.D  
 Acq: 13 Nov 2024 10:59

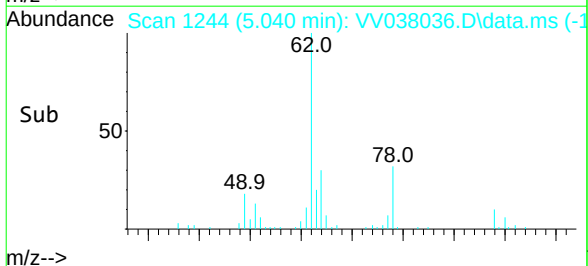
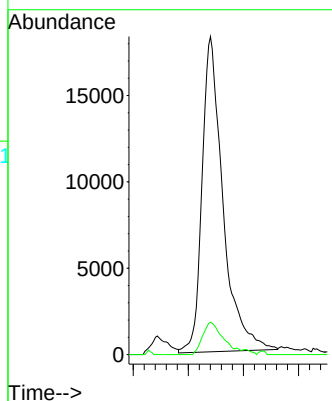
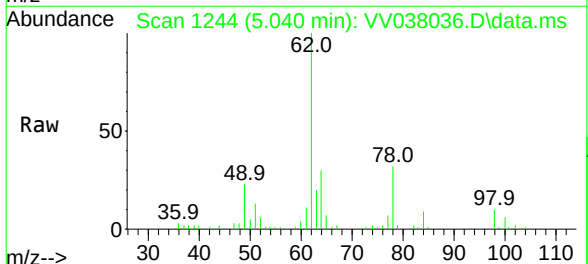
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 GCP95DL

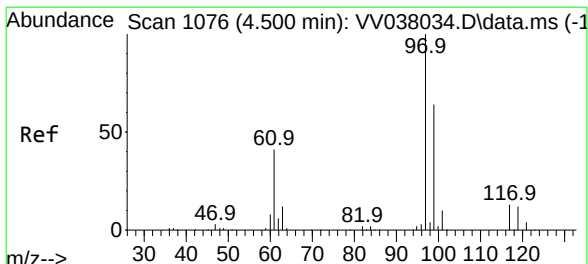
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 24100 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 112.6 | 84.1  | 156.3 |
| 98       | 60.0  | 42.6  | 79.0  |



#27  
 1,2-Dichloroethane  
 Concen: 2.006 ug/L  
 RT: 5.040 min Scan# 1244  
 Delta R.T. 0.003 min  
 Lab File: VV038036.D  
 Acq: 13 Nov 2024 10:59

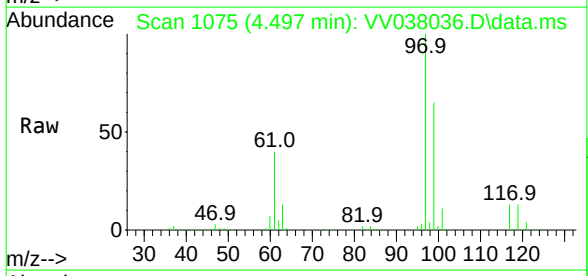
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 48101 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 10.1  | 8.3   | 12.5  |





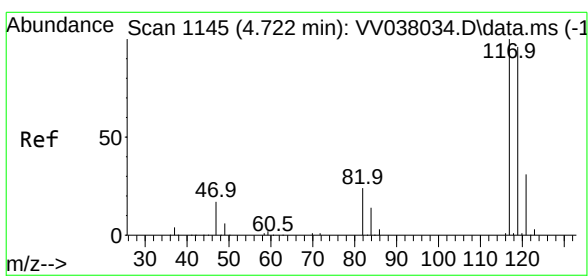
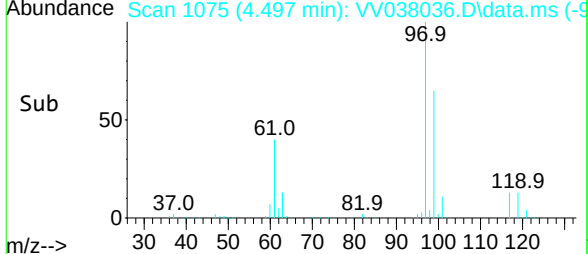
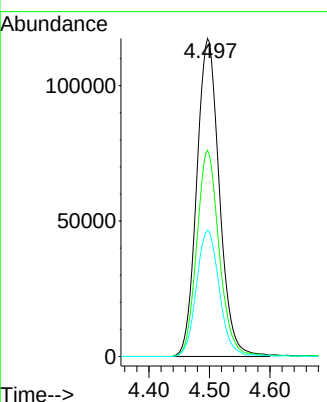
#29  
 1,1,1-Trichloroethane  
 Concen: 8.210 ug/L  
 RT: 4.497 min Scan# 1075  
 Delta R.T. -0.000 min  
 Lab File: VV038036.D  
 Acq: 13 Nov 2024 10:59

Instrument : MSVOA\_V  
 ClientSampleId : GCP95DL



Tgt Ion: 97 Resp: 304789

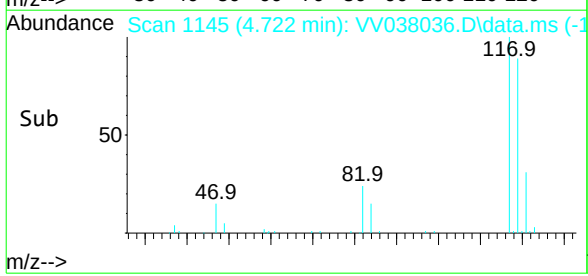
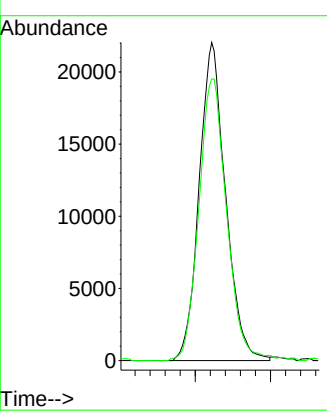
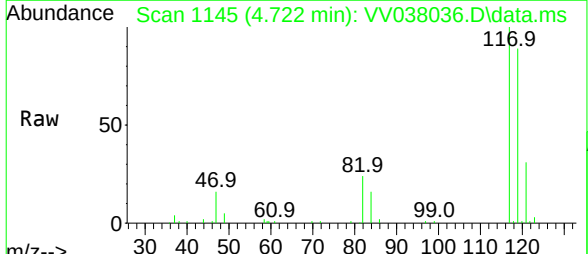
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 64.4  | 52.3  | 78.5  |
| 61  | 39.9  | 33.6  | 50.4  |

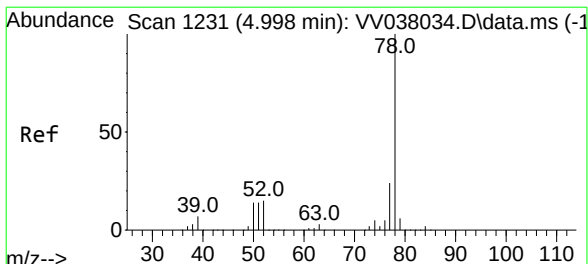


#31  
 Carbon tetrachloride  
 Concen: 1.660 ug/L  
 RT: 4.722 min Scan# 1145  
 Delta R.T. 0.000 min  
 Lab File: VV038036.D  
 Acq: 13 Nov 2024 10:59

Tgt Ion: 117 Resp: 53674

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 93.3  | 76.6  | 115.0 |

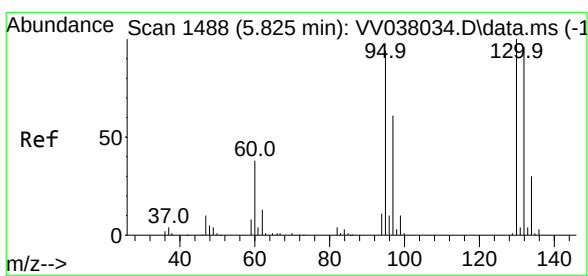
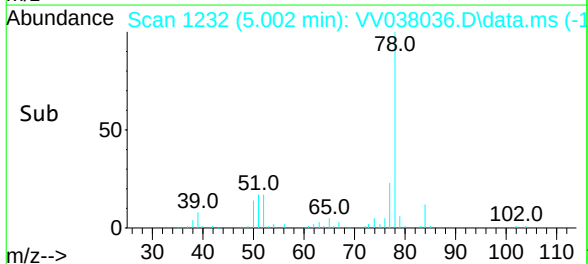
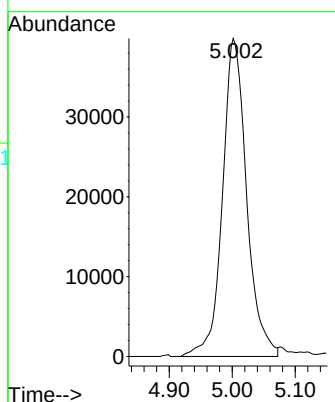
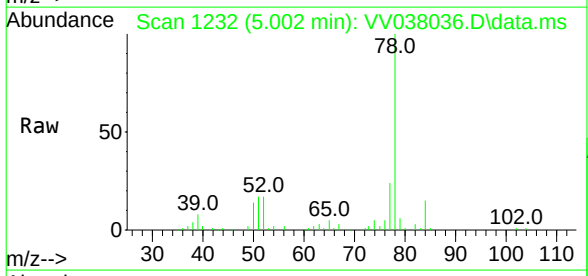




#33  
Benzene  
Concen: 1.215 ug/L  
RT: 5.002 min Scan# 1232  
Delta R.T. 0.003 min  
Lab File: VV038036.D  
Acq: 13 Nov 2024 10:59

Instrument : MSVOA\_V  
ClientSampleId : GCP95DL

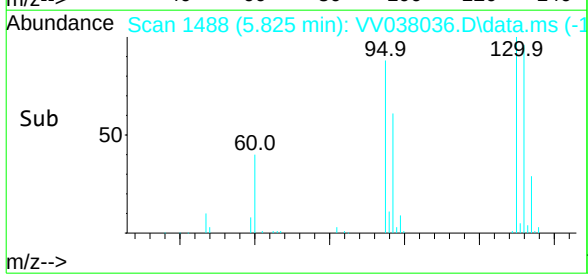
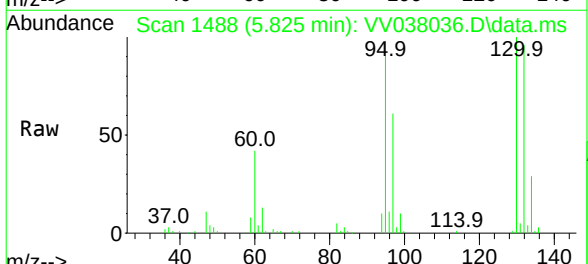
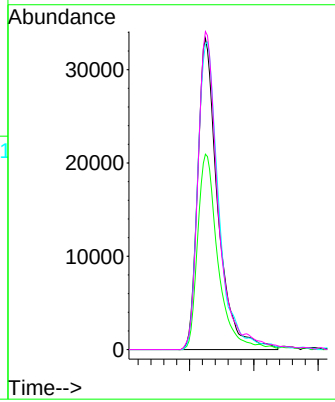
Tgt Ion: 78 Resp: 106272



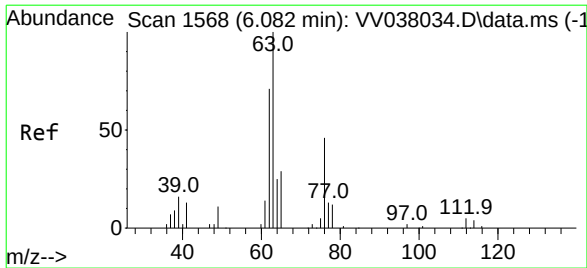
#34  
Trichloroethene  
Concen: 3.032 ug/L  
RT: 5.825 min Scan# 1488  
Delta R.T. 0.000 min  
Lab File: VV038036.D  
Acq: 13 Nov 2024 10:59

Tgt Ion: 95 Resp: 72494

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 62.8  | 44.5  | 82.7  |
| 132 | 98.1  | 67.9  | 126.1 |
| 130 | 102.2 | 72.8  | 135.2 |



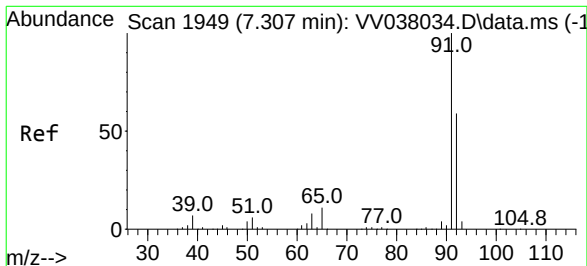
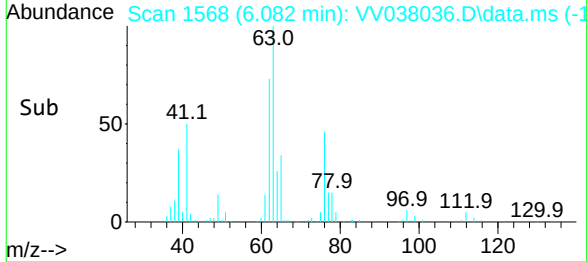
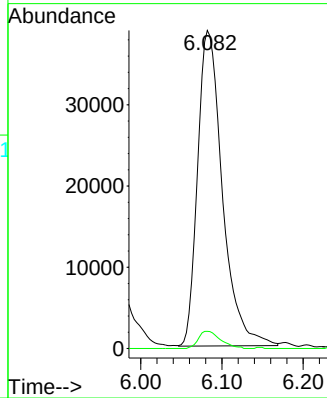
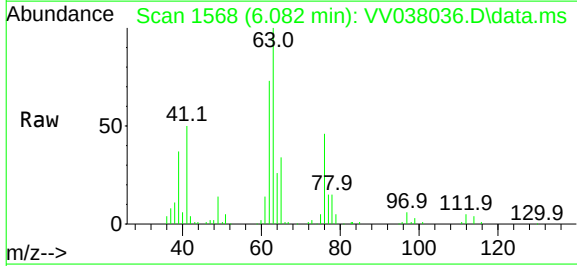




#37  
1,2-Dichloropropane  
Concen: 3.816 ug/L  
RT: 6.082 min Scan# 1568  
Delta R.T. 0.000 min  
Lab File: VV038036.D  
Acq: 13 Nov 2024 10:59

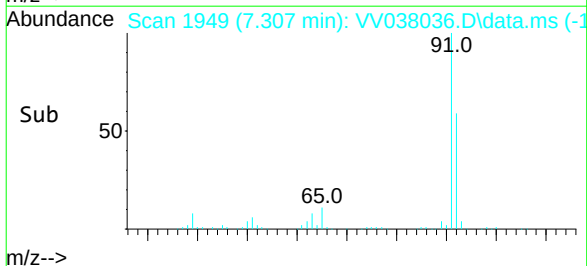
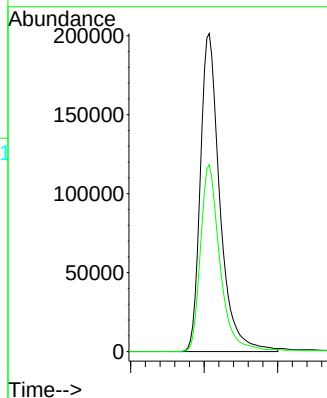
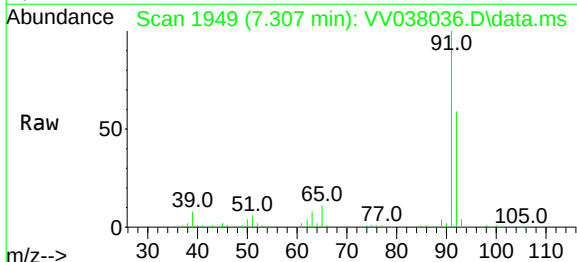
Instrument :  
MSVOA\_V  
ClientSampleId :  
GCP95DL

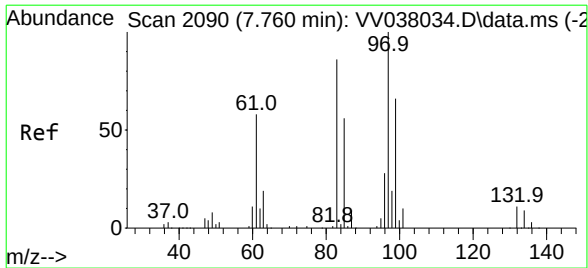
Tgt Ion: 63 Resp: 82548  
Ion Ratio Lower Upper  
63 100  
112 4.9 4.1 6.1



#42  
Toluene  
Concen: 4.067 ug/L  
RT: 7.307 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VV038036.D  
Acq: 13 Nov 2024 10:59

Tgt Ion: 91 Resp: 371594  
Ion Ratio Lower Upper  
91 100  
92 58.8 40.7 75.7

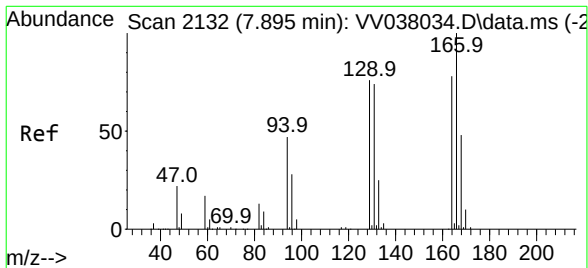
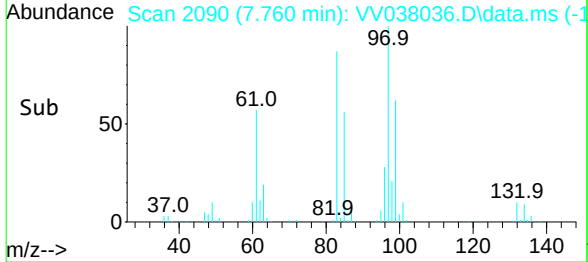
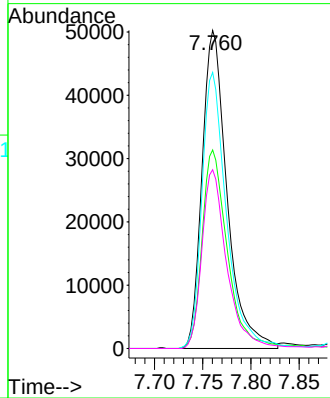
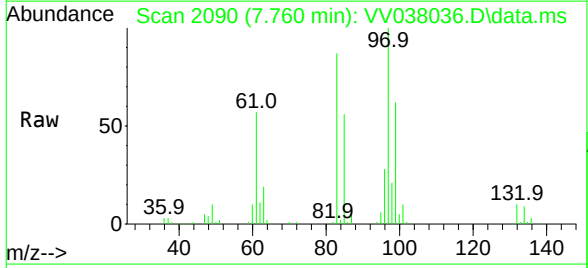




#45  
1,1,2-Trichloroethane  
Concen: 5.218 ug/L  
RT: 7.760 min Scan# 2090  
Delta R.T. -0.000 min  
Lab File: VV038036.D  
Acq: 13 Nov 2024 10:59

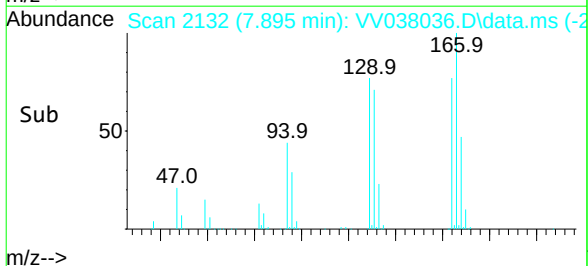
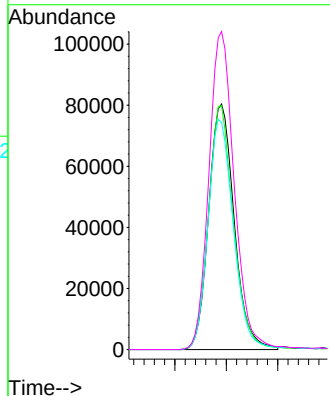
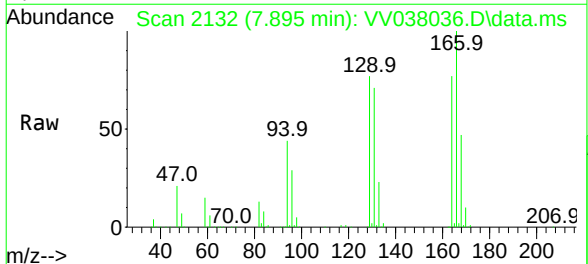
Instrument :  
MSVOA\_V  
ClientSampleId :  
GCP95DL

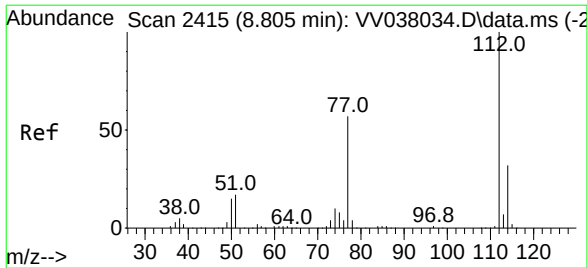
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 90561 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.4  | 44.0  | 81.8  |
| 83       | 86.8  | 60.1  | 111.5 |
| 85       | 56.2  | 39.8  | 74.0  |



#47  
Tetrachloroethene  
Concen: 7.382 ug/L  
RT: 7.895 min Scan# 2132  
Delta R.T. 0.000 min  
Lab File: VV038036.D  
Acq: 13 Nov 2024 10:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 138490 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 99.3  | 67.8  | 125.8  |
| 131      | 92.5  | 62.6  | 116.3  |
| 166      | 129.5 | 86.8  | 161.2  |





#51

Chlorobenzene

Concen: 7.320 ug/L

RT: 8.805 min Scan# 2415

Delta R.T. 0.000 min

Lab File: VV038036.D

Acq: 13 Nov 2024 10:59

Instrument :

MSVOA\_V

ClientSampleId :

GCP95DL

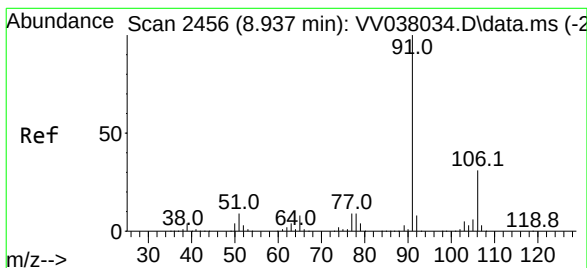
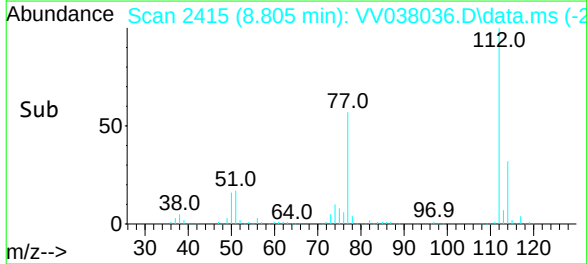
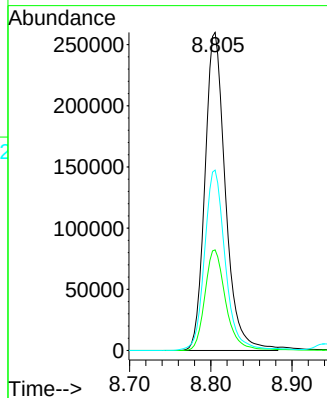
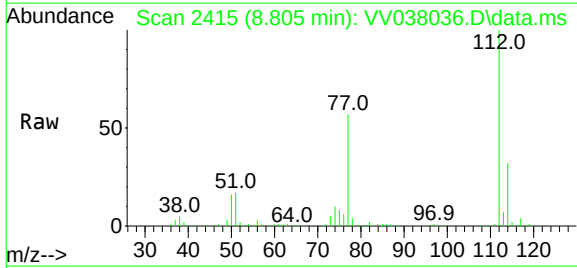
Tgt Ion:112 Resp: 455718

Ion Ratio Lower Upper

112 100

114 31.6 22.3 41.3

77 56.7 46.5 69.7



#52

Ethylbenzene

Concen: 1.026 ug/L

RT: 8.940 min Scan# 2457

Delta R.T. 0.003 min

Lab File: VV038036.D

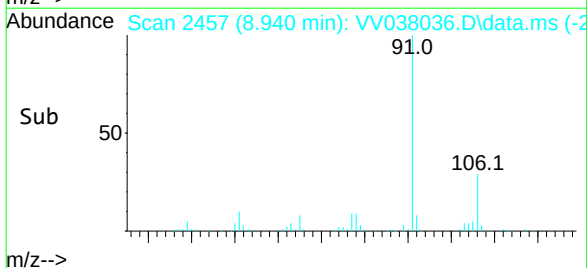
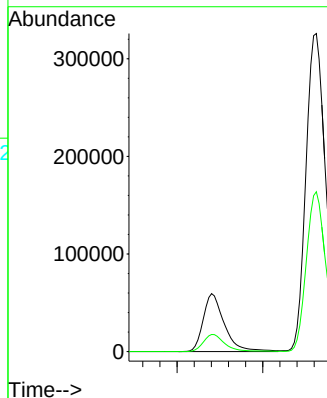
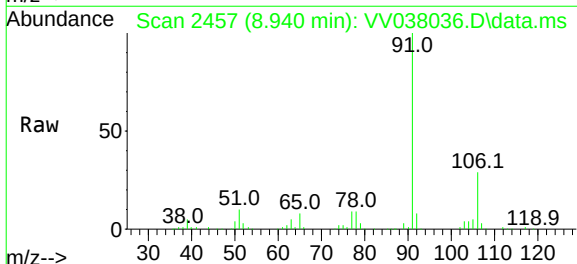
Acq: 13 Nov 2024 10:59

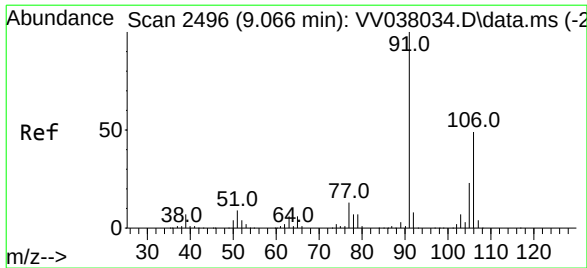
Tgt Ion: 91 Resp: 101796

Ion Ratio Lower Upper

91 100

106 29.5 21.6 40.0

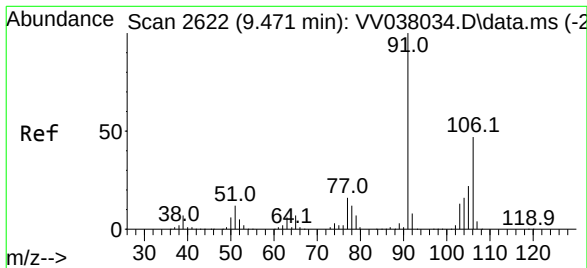
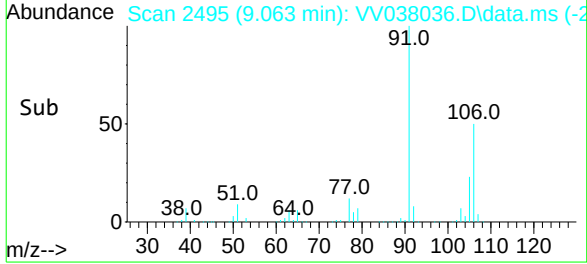
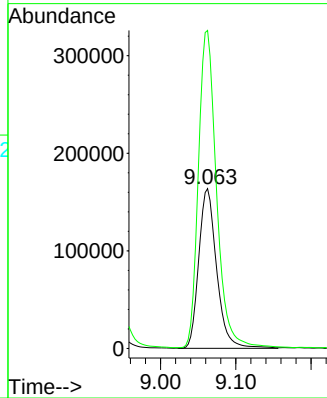
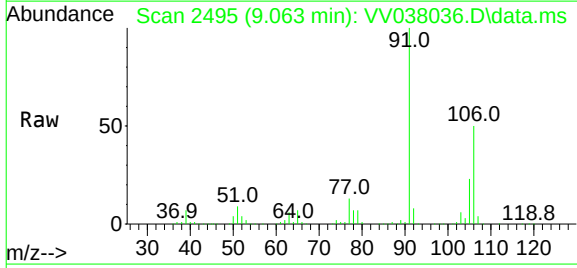




#53  
m,p-Xylene  
Concen: 7.224 ug/L  
RT: 9.063 min Scan# 2496  
Delta R.T. -0.003 min  
Lab File: VV038036.D  
Acq: 13 Nov 2024 10:59

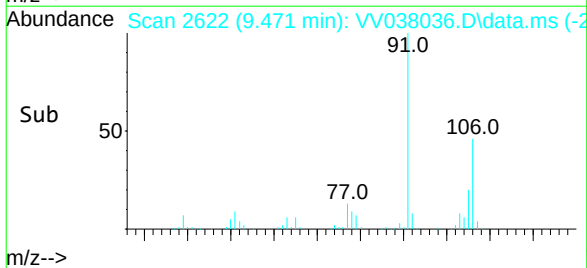
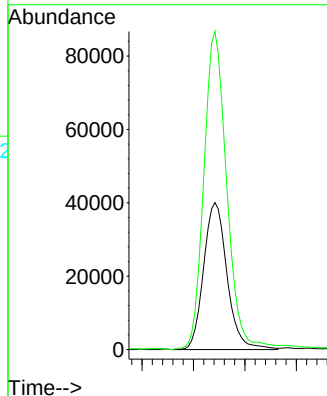
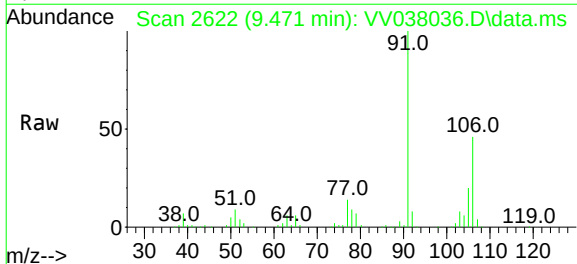
Instrument :  
MSVOA\_V  
ClientSampleId :  
GCP95DL

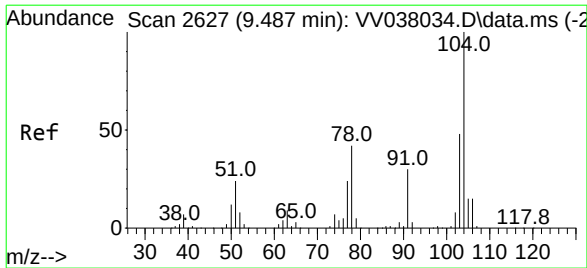
Tgt Ion:106 Resp: 270296  
Ion Ratio Lower Upper  
106 100  
91 199.0 142.7 264.9



#54  
o-Xylene  
Concen: 1.753 ug/L  
RT: 9.471 min Scan# 2622  
Delta R.T. 0.000 min  
Lab File: VV038036.D  
Acq: 13 Nov 2024 10:59

Tgt Ion:106 Resp: 63463  
Ion Ratio Lower Upper  
106 100  
91 216.3 151.0 280.4





#55

Styrene

Concen: 1.201 ug/L

RT: 9.493 min Scan# 26

Delta R.T. 0.006 min

Lab File: VV038036.D

Acq: 13 Nov 2024 10:59

Instrument :

MSVOA\_V

ClientSampleId :

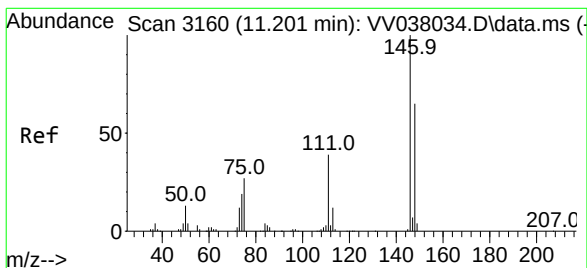
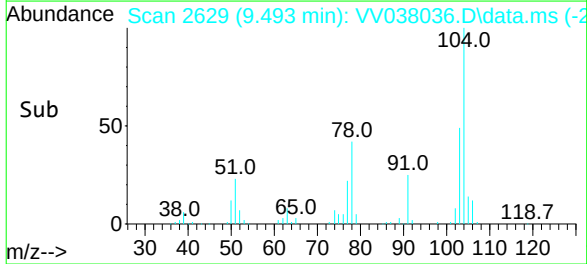
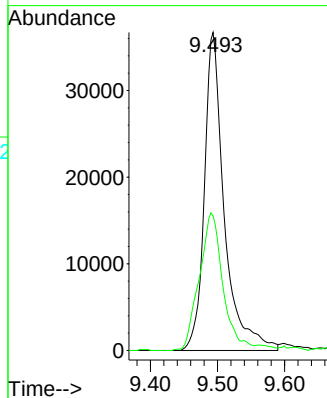
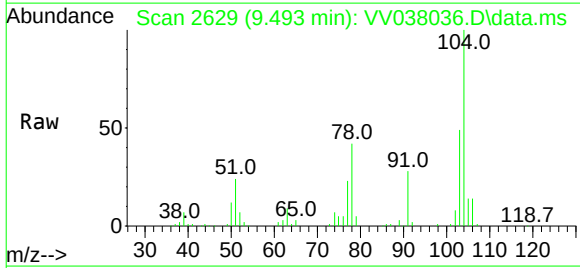
GCP95DL

Tgt Ion:104 Resp: 75769

Ion Ratio Lower Upper

104 100

78 42.3 30.1 55.9



#65

1,4-Dichlorobenzene

Concen: 9.472 ug/L

RT: 11.201 min Scan# 3160

Delta R.T. 0.000 min

Lab File: VV038036.D

Acq: 13 Nov 2024 10:59

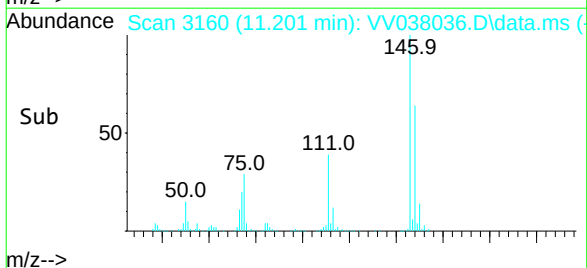
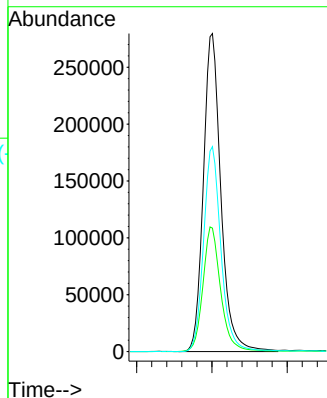
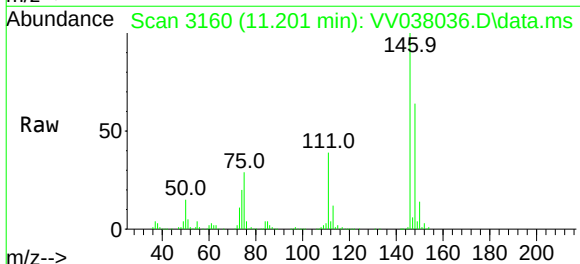
Tgt Ion:146 Resp: 452921

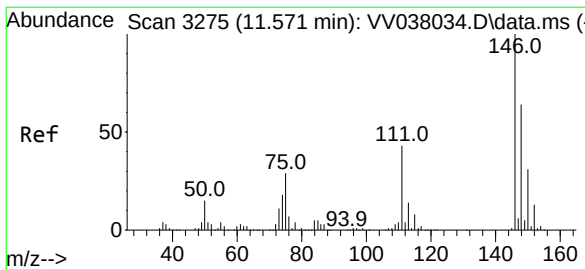
Ion Ratio Lower Upper

146 100

111 38.8 27.8 51.6

148 64.4 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 4.790 ug/L

RT: 11.570 min Scan# 3275

Delta R.T. 0.000 min

Lab File: VV038036.D

Acq: 13 Nov 2024 10:59

Instrument :

MSVOA\_V

ClientSampleId :

GCP95DL

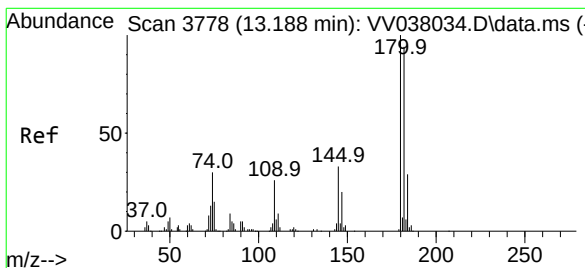
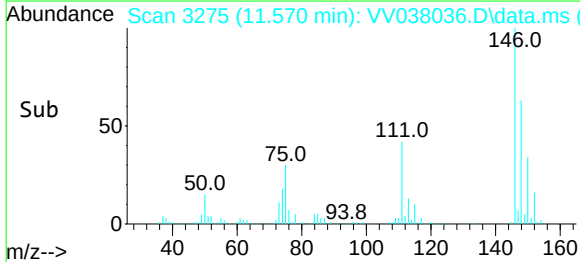
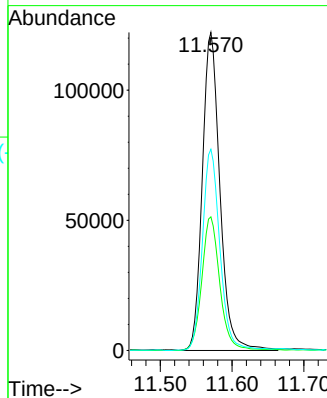
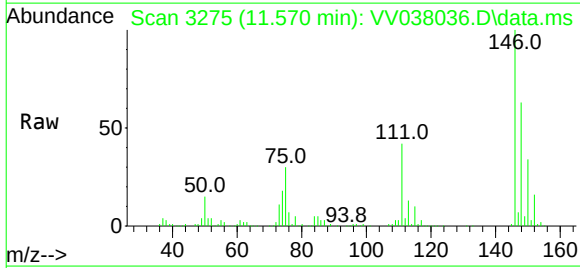
Tgt Ion:146 Resp: 208196

Ion Ratio Lower Upper

146 100

111 42.0 34.5 51.7

148 63.3 50.4 75.6



#70

1,2,4-trichlorobenzene

Concen: 3.779 ug/L

RT: 13.191 min Scan# 3779

Delta R.T. -0.000 min

Lab File: VV038036.D

Acq: 13 Nov 2024 10:59

Tgt Ion:180 Resp: 114696

Ion Ratio Lower Upper

180 100

182 96.8 74.6 112.0

145 31.3 24.8 37.2

