

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\  
 Data File : VV018807.D  
 Acq On : 09 Oct 2020 10:31  
 Operator : SY/MD  
 Sample : L4239-15 4X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3R8

Quant Time: Oct 09 23:52:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM100820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 09 23:43:53 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 328142   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 322628   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 164621   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 131830   | 44.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 88.42%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 114784   | 47.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 95.66%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 203456   | 35.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.78%  |
| 21) 2-Butanone-d5              | 3.90    | 46    | 217080   | 118.57   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 118.57% |
| 24) Chloroform-d               | 4.38    | 84    | 265849   | 50.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.08% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 184502   | 51.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.48% |
| 32) Benzene-d6                 | 5.07    | 84    | 527640   | 50.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.64% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 174628   | 51.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 103.16% |
| 41) Toluene-d8                 | 7.34    | 98    | 468965   | 50.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.76% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 81368    | 49.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 98.34%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 125392   | 105.67   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 105.67% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 208331   | 53.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 106.98% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 195179   | 53.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.14% |

## Target Compounds

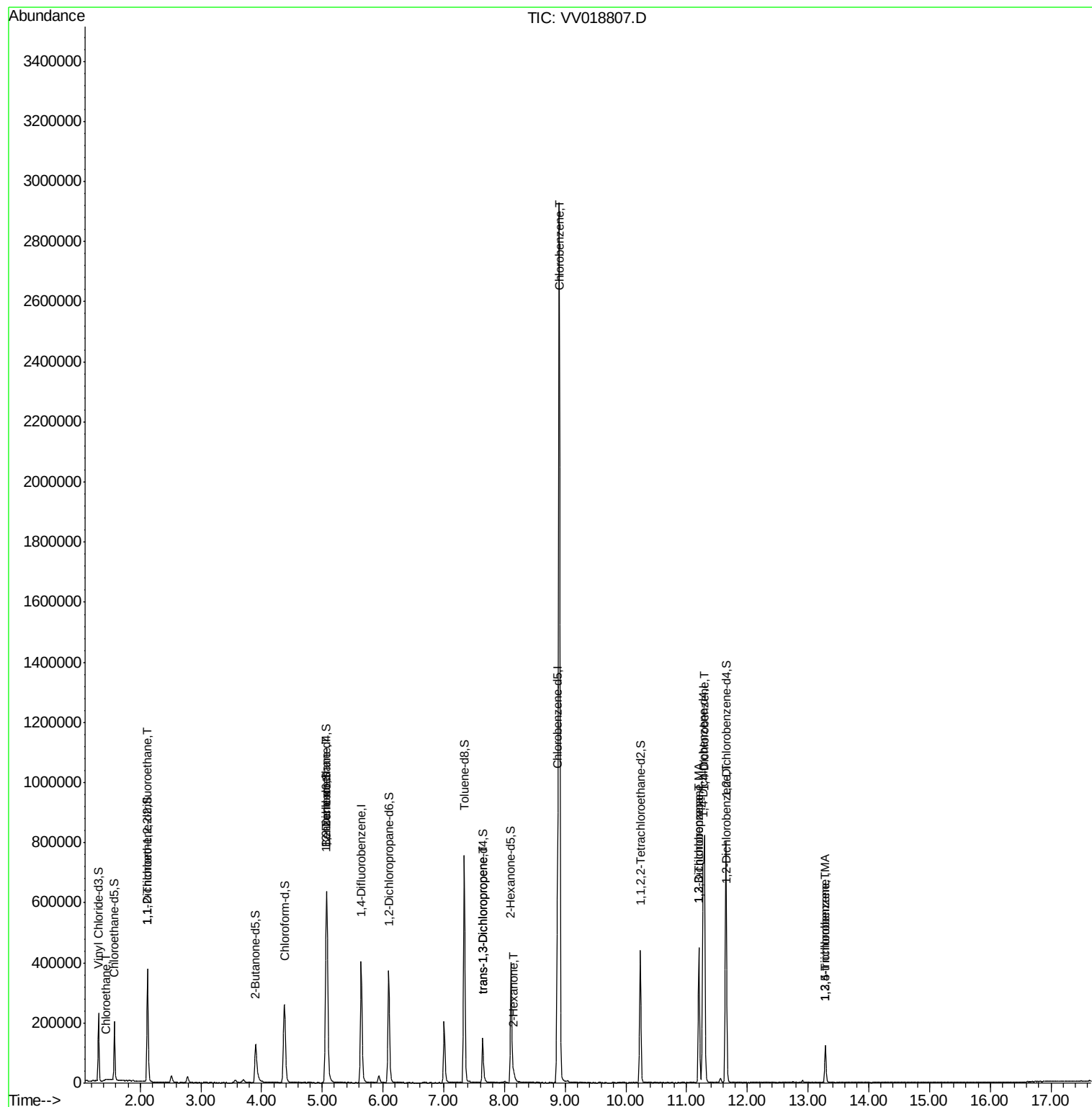
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Chloroethane                | 1.44  | 64   | 8778     | 4.627   | ug/L # | 54     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101  | 1940     | 0.823   | ug/L # | 19     |
| 27) 1,2-Dichloroethane         | 5.07  | 62   | 3498     | 0.890   | ug/L   | 100    |
| 44) trans-1,3-Dichloropropene  | 7.64  | 75   | 3829     | 0.941   | ug/L   | 87     |
| 48) 2-Hexanone                 | 8.16  | 43   | 14170    | 4.913   | ug/L # | 79     |
| 51) Chlorobenzene              | 8.90  | 112  | 1426774  | 204.473 | ug/L   | 99     |
| 59) 1,2,3-Trichloropropane     | 11.20 | 75   | 54814    | 16.384  | ug/L # | 44     |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 172964   | 32.227  | ug/L   | 99     |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146  | 289163   | 51.794  | ug/L   | 98     |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 9821     | 1.823   | ug/L   | 90     |
| 67) 1,3,5-Trichlorobenzene     | 13.29 | 180  | 35545    | 10.225  | ug/L   | 98     |
| 68) 1,2,4-trichlorobenzene     | 13.29 | 180  | 35545    | 10.874  | ug/L   | 98     |

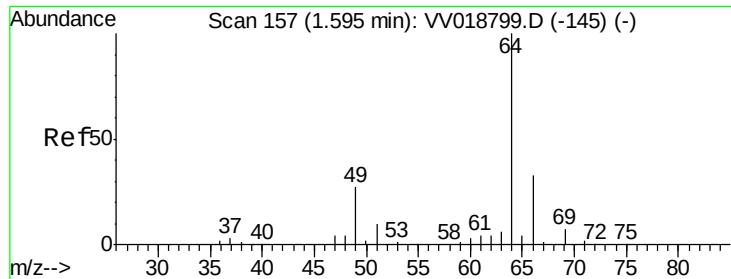
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV100920\  
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Sample : L4239-15 4X  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3R8

Quant Time: Oct 09 23:52:08 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM100820WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Oct 09 23:43:53 2020  
Response via : Initial Calibration

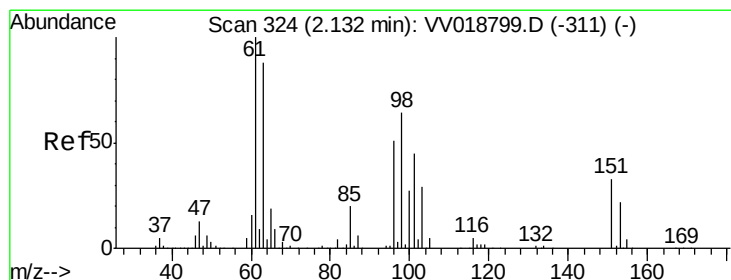
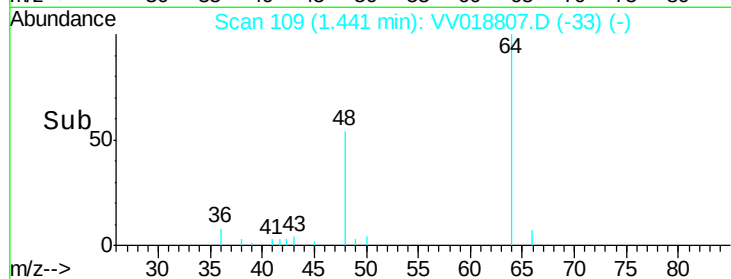
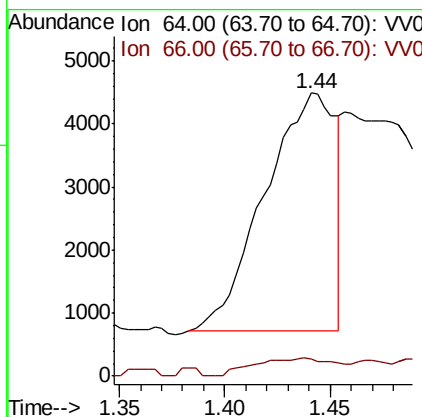
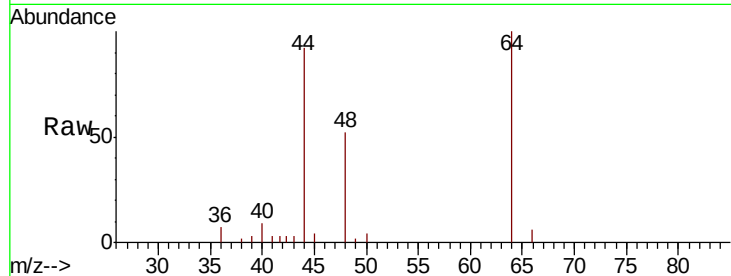




#8  
 Chloroethane  
 Concen: 4.627 ug/L  
 RT: 1.44 min Scan# 109  
 Delta R.T. -0.15 min  
 Lab File: VV018807.D  
 Acq: 09 Oct 2020 10:31

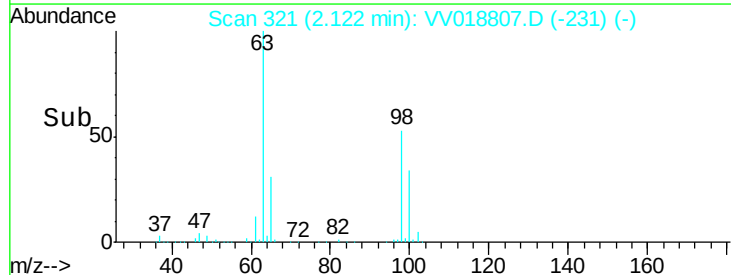
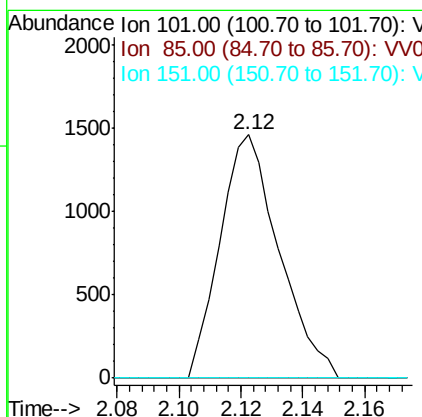
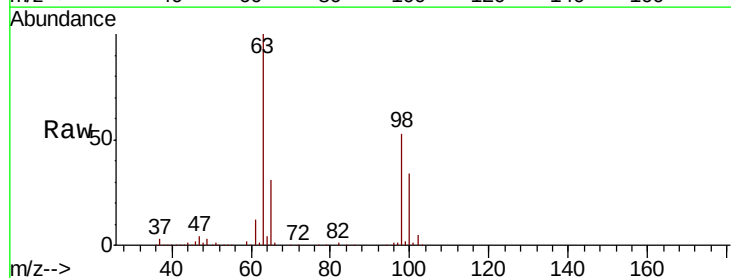
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 BG3R8

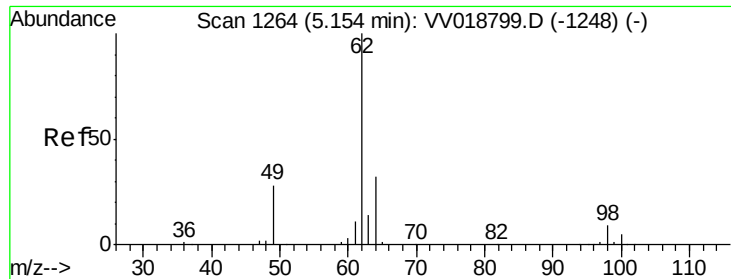
Tot Ion: 64 Resp: 8778  
 Ion Ratio Lower Upper  
 64 100  
 66 5.9 21.7 40.3#



#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.823 ug/L  
 RT: 2.12 min Scan# 321  
 Delta R.T. -0.01 min  
 Lab File: VV018807.D  
 Acq: 09 Oct 2020 10:31

Tgt Ion: 101 Resp: 1940  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 35.9 53.9#  
 151 0.0 59.8 89.8#





#27

1,2-Dichloroethane

Concen: 0.890 ug/L

RT: 5.07 min Scan# 1238

Delta R.T. -0.08 min

Lab File: VV018807.D

Acq: 09 Oct 2020 10:31

Instrument :

MSVOA\_V

ClientSampleId :

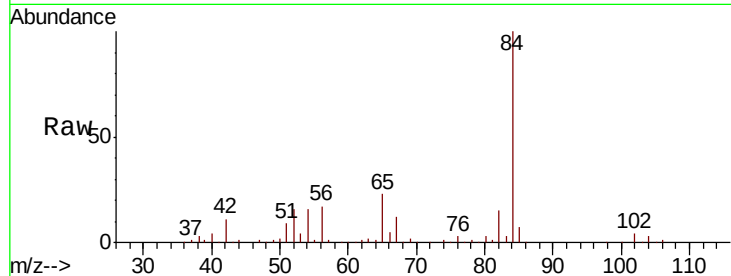
BG3R8

Tot Ion: 62 Resp: 3498

Ion Ratio Lower Upper

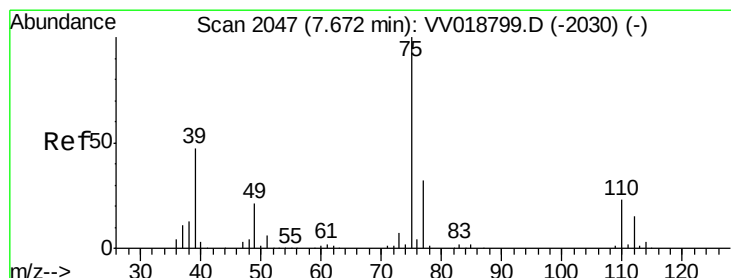
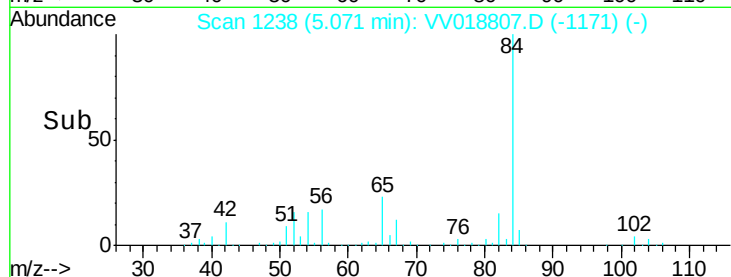
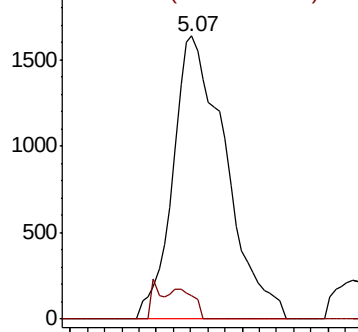
62 100

98 8.2 6.6 10.0



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.941 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. -0.03 min

Lab File: VV018807.D

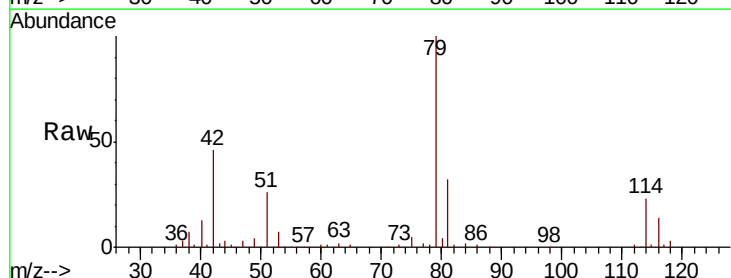
Acq: 09 Oct 2020 10:31

Tgt Ion: 75 Resp: 3829

Ion Ratio Lower Upper

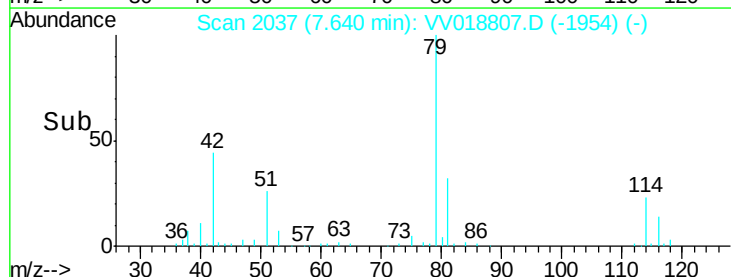
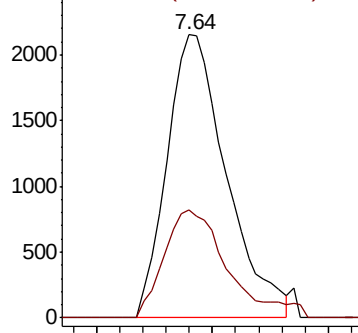
75 100

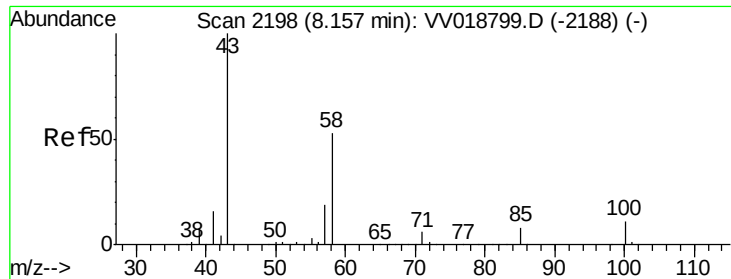
77 38.1 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

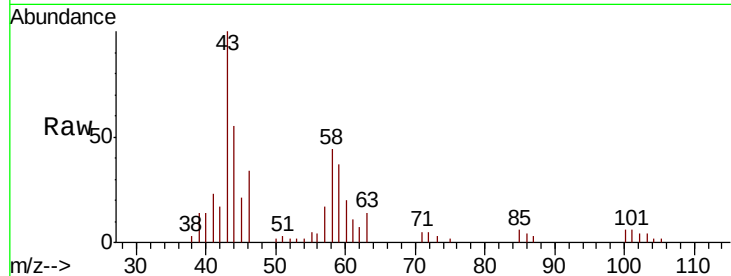




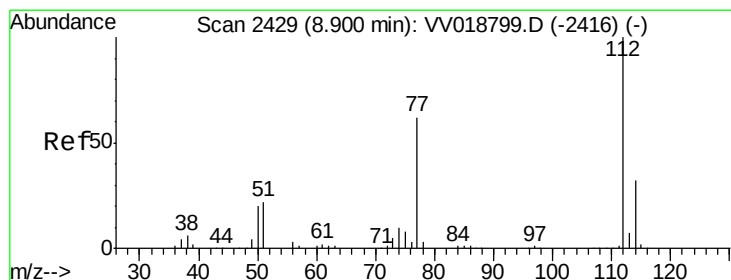
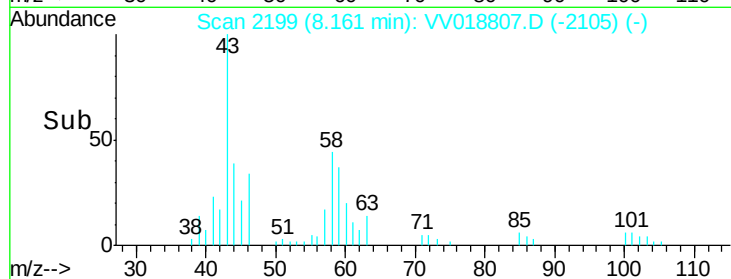
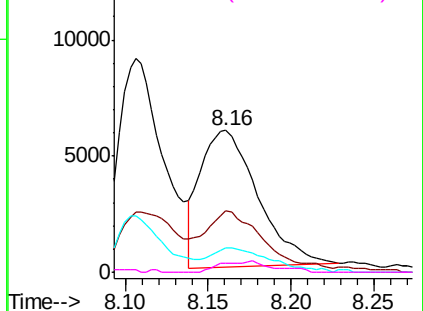
#48  
2-Hexanone  
Concen: 4.913 ug/L  
RT: 8.16 min Scan# 2199  
Delta R.T. 0.00 min  
Lab File: VV018807.D  
Acq: 09 Oct 2020 10:31

Instrument :  
MSVOA\_V  
ClientSampled :  
BG3R8

Tot Ion: 43 Resp: 14170  
Ion Ratio Lower Upper  
43 100  
58 33.1 41.8 62.8#  
57 18.2 14.9 22.3  
100 2.9 9.2 13.8#

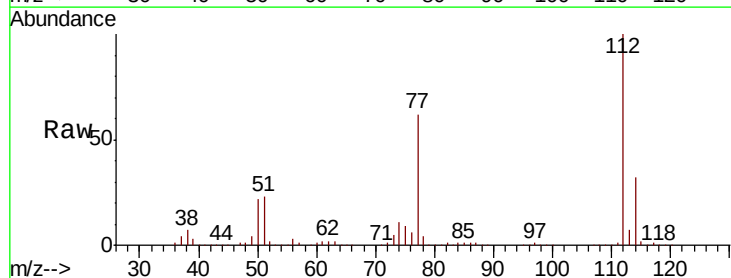


Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0  
Ion 100.00 (99.70 to 100.70): VV0

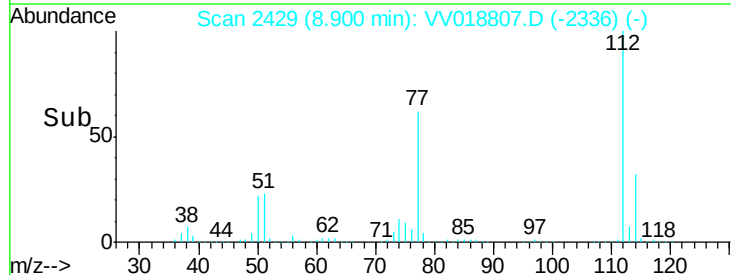
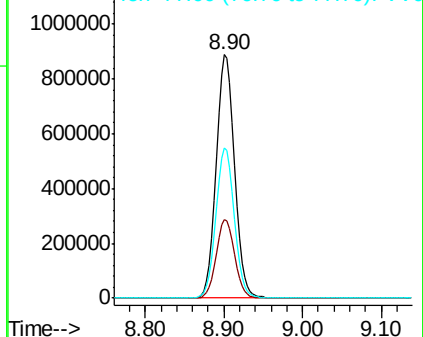


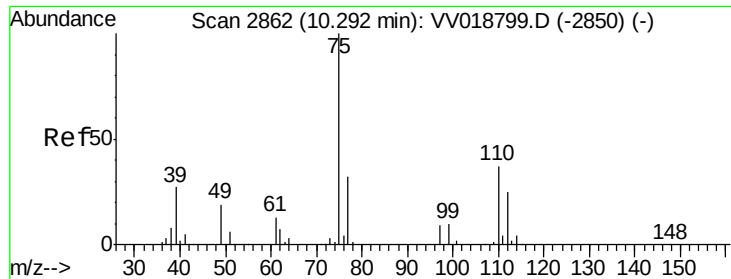
#51  
Chlorobenzene  
Concen: 204.473 ug/L  
RT: 8.90 min Scan# 2429  
Delta R.T. 0.00 min  
Lab File: VV018807.D  
Acq: 09 Oct 2020 10:31

Tgt Ion: 112 Resp: 1426774  
Ion Ratio Lower Upper  
112 100  
114 32.5 22.0 41.0  
77 61.9 49.8 74.6



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): VV0





#59

1,2,3-Trichloropropane

Concen: 16.384 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.91 min

Lab File: VV018807.D

Acq: 09 Oct 2020 10:31

Instrument :

MSVOA\_V

ClientSampled :

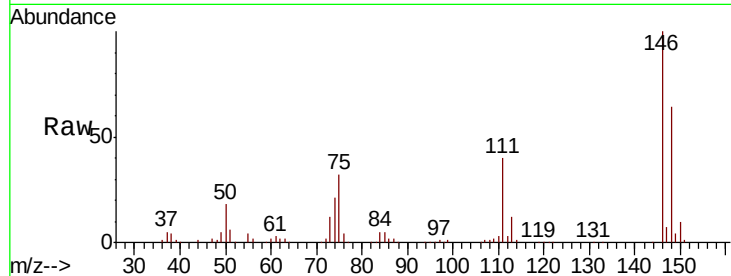
BG3R8

Tot Ion: 75 Resp: 54814

Ion Ratio Lower Upper

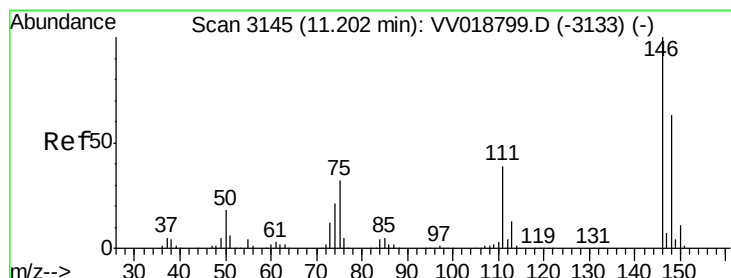
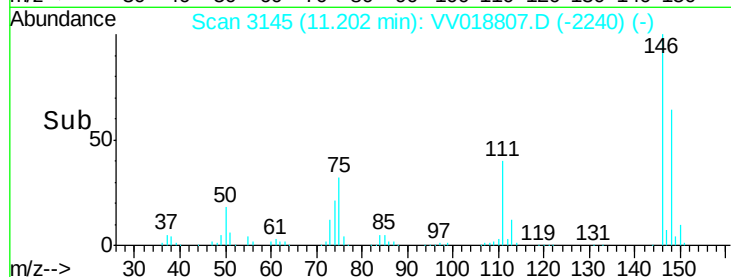
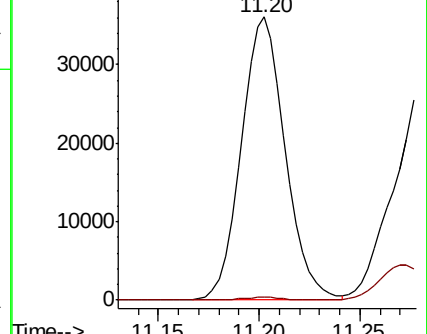
75 100

77 0.9 25.9 38.9#



Abundance Ion 75.00 (74.70 to 75.70): VV018807.D (-2240) (-)

Ion 77.00 (76.70 to 77.70): VV018807.D (-2240) (-)



#62

1,3-Dichlorobenzene

Concen: 32.227 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV018807.D

Acq: 09 Oct 2020 10:31

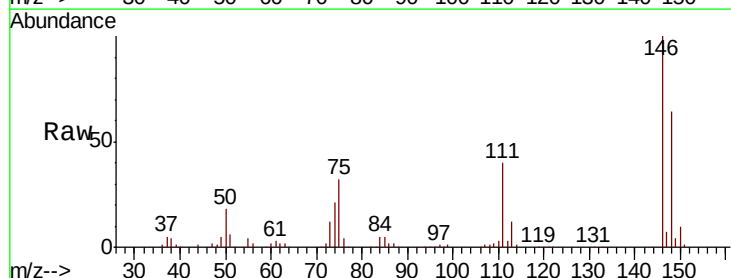
Tgt Ion: 146 Resp: 172964

Ion Ratio Lower Upper

146 100

111 40.0 27.8 51.6

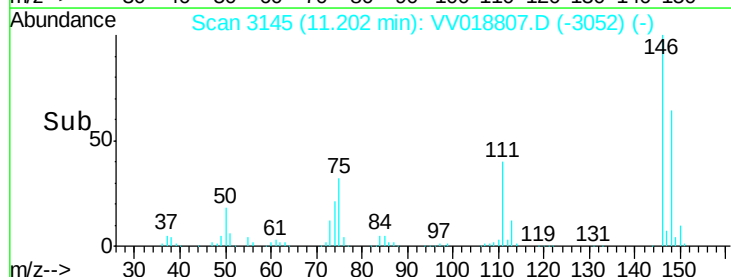
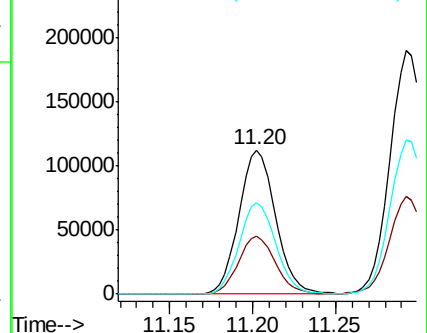
148 63.5 45.4 84.4

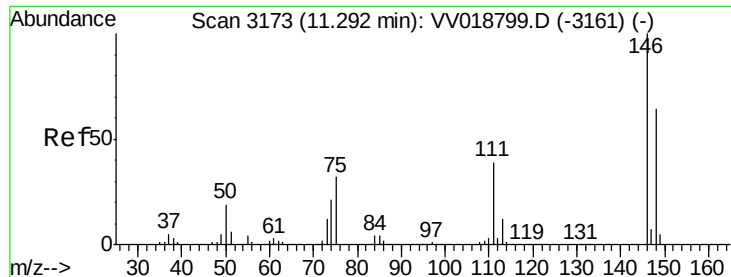


Abundance Ion 146.00 (145.70 to 146.70): VV018807.D (-3052) (-)

Ion 111.00 (110.70 to 111.70): VV018807.D (-3052) (-)

Ion 148.00 (147.70 to 148.70): VV018807.D (-3052) (-)

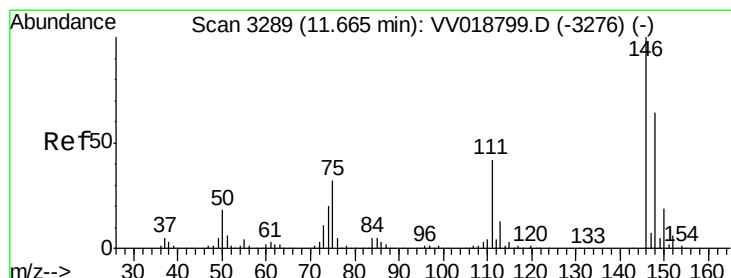
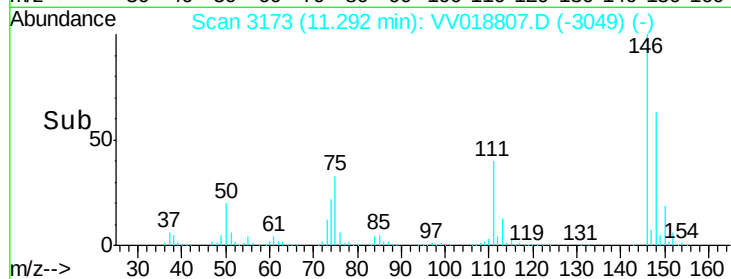
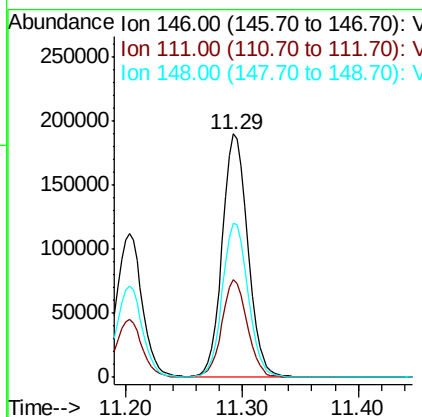
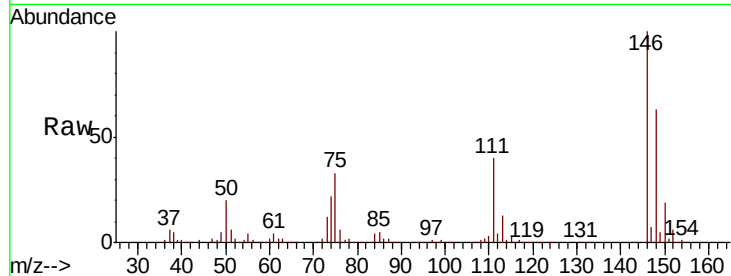




#63  
 1,4-Dichlorobenzene  
 Concen: 51.794 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. 0.00 min  
 Lab File: VV018807.D  
 Acq: 09 Oct 2020 10:31

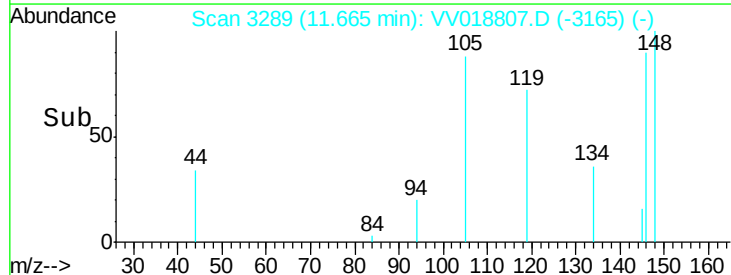
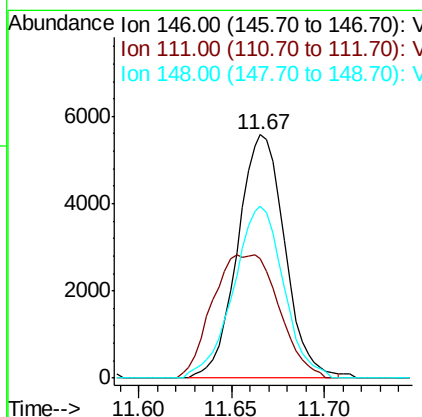
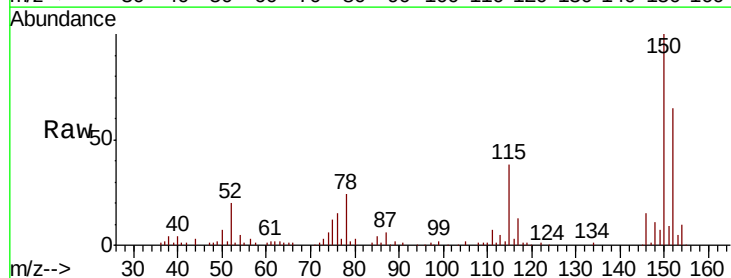
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3R8

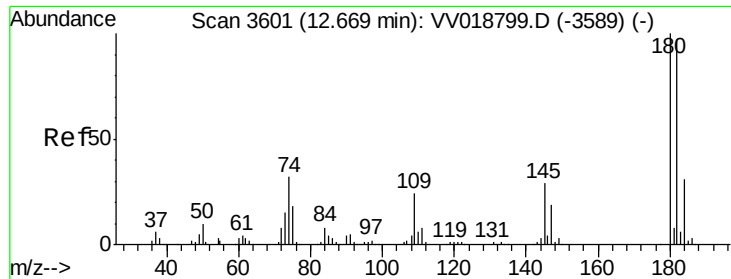
Tot Ion:146 Resp: 289163  
 Ion Ratio Lower Upper  
 146 100  
 111 39.9 27.1 50.3  
 148 63.3 45.4 84.4



#65  
 1,2-Dichlorobenzene  
 Concen: 1.823 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV018807.D  
 Acq: 09 Oct 2020 10:31

Tgt Ion:146 Resp: 9821  
 Ion Ratio Lower Upper  
 146 100  
 111 48.8 33.8 50.6  
 148 70.7 50.3 75.5

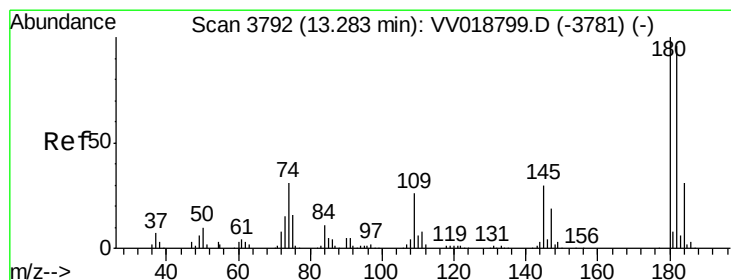
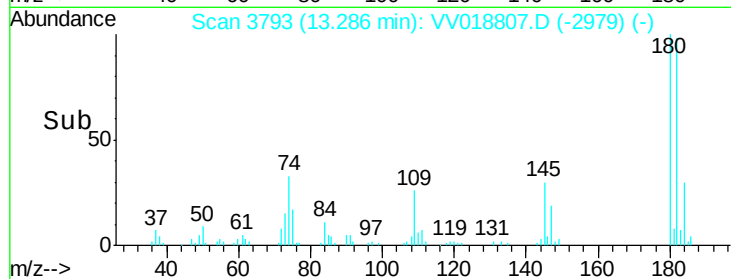
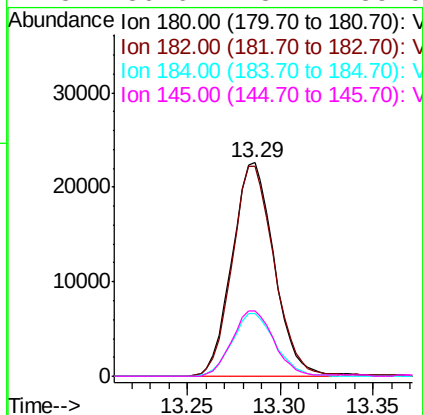
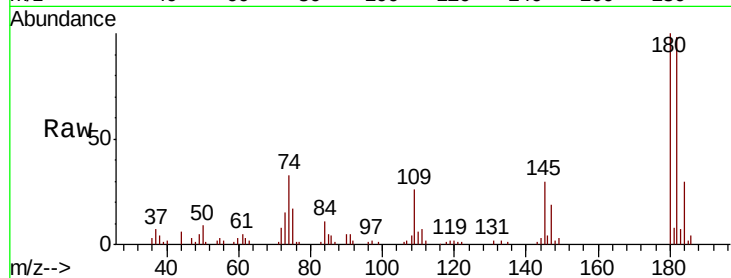




#67  
 1,3,5-Trichlorobenzene  
 Concen: 10.225 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.62 min  
 Lab File: VV018807.D  
 Acq: 09 Oct 2020 10:31

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3R8

Tot Ion:180 Resp: 35545  
 Ion Ratio Lower Upper  
 180 100  
 182 98.3 77.0 115.6  
 184 30.2 24.6 37.0  
 145 30.6 23.4 35.0



#68  
 1,2,4-trichlorobenzene  
 Concen: 10.874 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.00 min  
 Lab File: VV018807.D  
 Acq: 09 Oct 2020 10:31

Tgt Ion:180 Resp: 35545  
 Ion Ratio Lower Upper  
 180 100  
 182 98.3 76.7 115.1  
 145 30.6 24.0 36.0

