

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV030920\  
 Data File : VV014782.D  
 Acq On : 09 Mar 2020 17:25  
 Operator : SY/MD  
 Sample : L1835-10  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DJ8

Quant Time: Mar 10 14:49:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM030620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Mar 10 14:44:37 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 443070   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 424487   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 209067   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

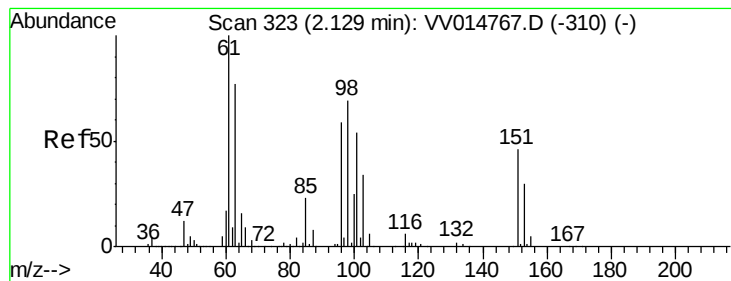
|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 119432   | 39.83    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 79.66% |
| 7) Chloroethane-d5             | 1.58    | 69    | 99354    | 41.91    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 83.82% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 154401   | 30.99    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 61.98% |
| 21) 2-Butanone-d5              | 3.94    | 46    | 207077   | 92.60    | ug/L | 0.01   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 92.60% |
| 24) Chloroform-d               | 4.38    | 84    | 250406   | 44.10    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.20% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 173355   | 44.95    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.90% |
| 32) Benzene-d6                 | 5.08    | 84    | 526148   | 46.94    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.88% |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 164333   | 44.24    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 88.48% |
| 41) Toluene-d8                 | 7.34    | 98    | 499963   | 45.54    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.08% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 79492    | 43.83    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.66% |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 162266   | 98.38    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 98.38% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 228762   | 44.77    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 89.54% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 198993   | 48.02    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.04% |

## Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|--------------------------------|-------|------|----------|------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101  | 1611     | 0.65 | ug/L # | 22     |
| 25) Chloroform                 | 4.41  | 83   | 6198     | 1.03 | ug/L   | 90     |
| 39) cis-1,3-Dichloropropene    | 7.01  | 75   | 4879     | 0.94 | ug/L # | 71     |
| 48) 2-Hexanone                 | 8.12  | 43   | 17798    | 4.70 | ug/L # | 75     |
| 51) Chlorobenzene              | 8.90  | 112  | 17324    | 1.98 | ug/L   | 98     |
| 59) 1,2,3-Trichloropropane     | 11.27 | 75   | 30796    | 7.26 | ug/L   | 93     |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 6238     | 0.92 | ug/L   | 91     |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146  | 27930    | 4.10 | ug/L   | 97     |
| 65) 1,2-Dichlorobenzene        | 11.66 | 146  | 21442    | 3.19 | ug/L   | 96     |
| 67) 1,3,5-Trichlorobenzene     | 13.28 | 180  | 8526     | 1.63 | ug/L   | 96     |
| 68) 1,2,4-trichlorobenzene     | 13.28 | 180  | 8526     | 1.77 | ug/L   | 94     |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 3453     | 0.72 | ug/L   | 93     |

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





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.65 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV014782.D

Acq: 09 Mar 2020 17:25

Instrument :

MSVOA\_V

ClientSampleId :

C0DJ8

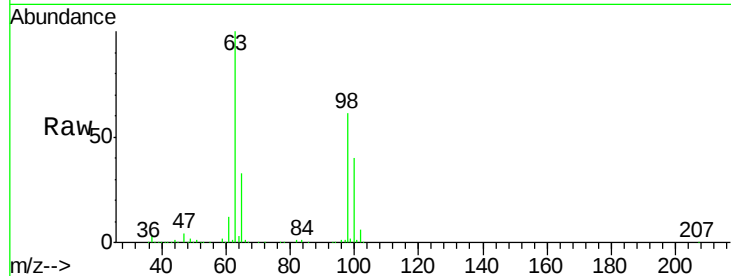
Tgt Ion: 101 Resp: 1611

Ion Ratio Lower Upper

101 100

85 2.9 35.0 52.6#

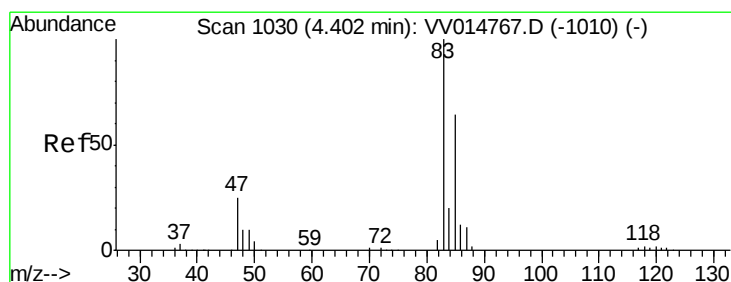
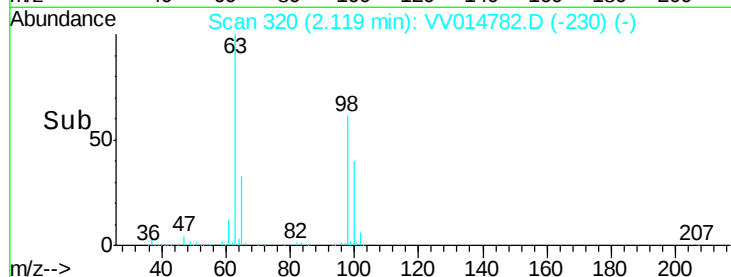
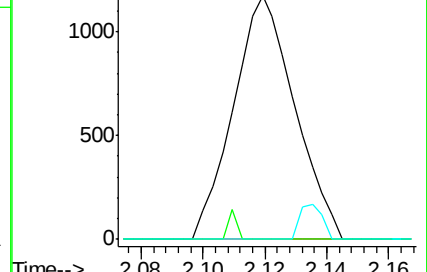
151 5.3 66.4 99.6#



Abundance Ion 101.00 (100.70 to 101.70): VV014782.D (-230) (-)

Ion 85.00 (84.70 to 85.70): VV014782.D (-230) (-)

Ion 151.00 (150.70 to 151.70): VV014782.D (-230) (-)



#25

Chloroform

Concen: 1.03 ug/L

RT: 4.41 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VV014782.D

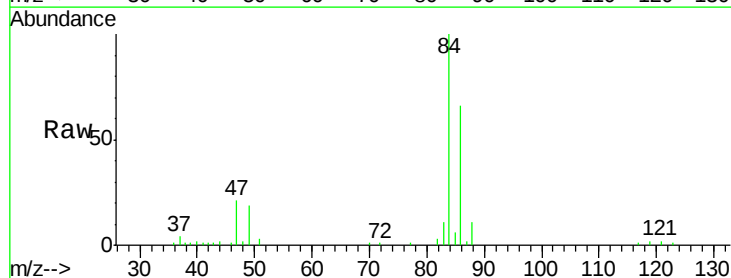
Acq: 09 Mar 2020 17:25

Tgt Ion: 83 Resp: 6198

Ion Ratio Lower Upper

83 100

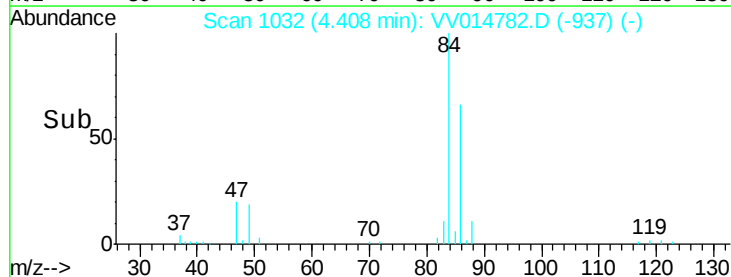
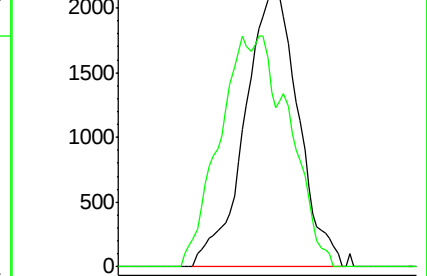
85 56.5 45.1 83.9

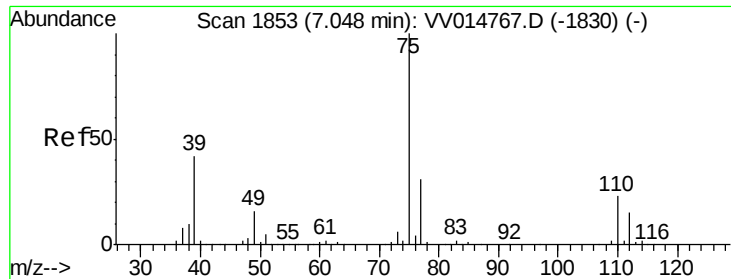


Abundance Ion 83.00 (82.70 to 83.70): VV014782.D (-937) (-)

Ion 85.00 (84.70 to 85.70): VV014782.D (-937) (-)

Ion 151.00 (150.70 to 151.70): VV014782.D (-937) (-)

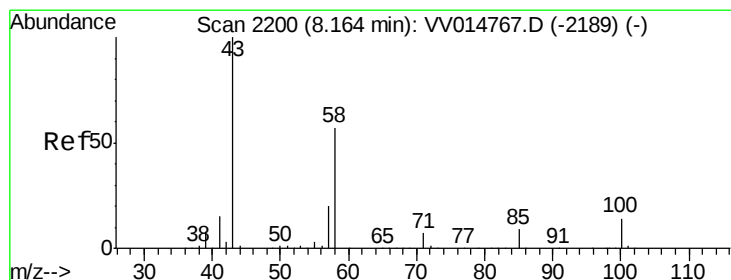
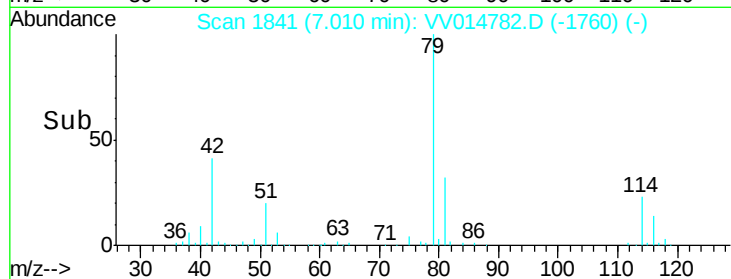
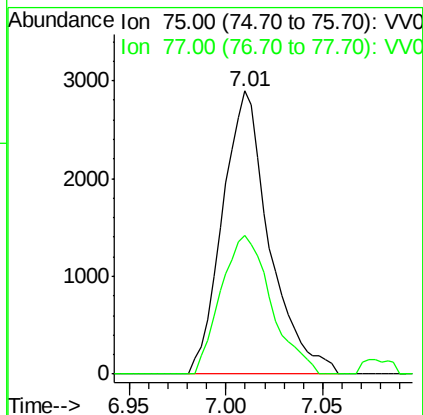
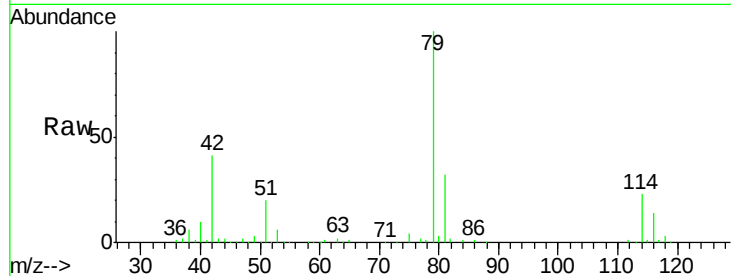




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.94 ug/L  
 RT: 7.01 min Scan# 1841  
 Delta R.T. -0.04 min  
 Lab File: VV014782.D  
 Acq: 09 Mar 2020 17:25

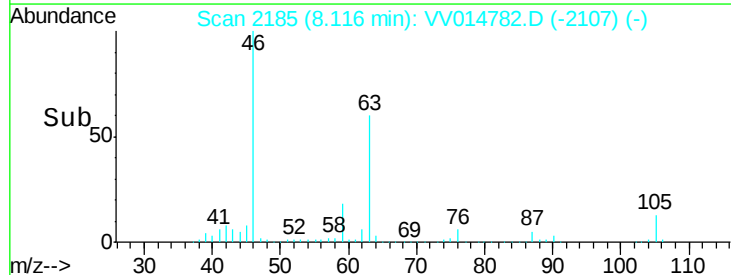
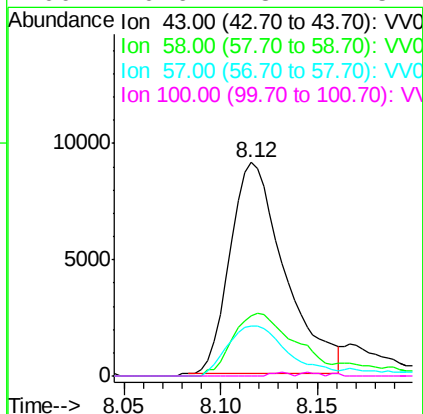
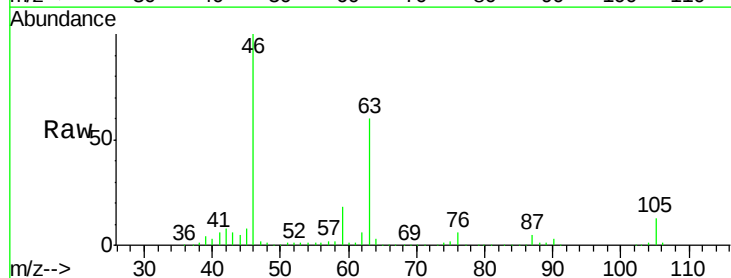
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DJ8

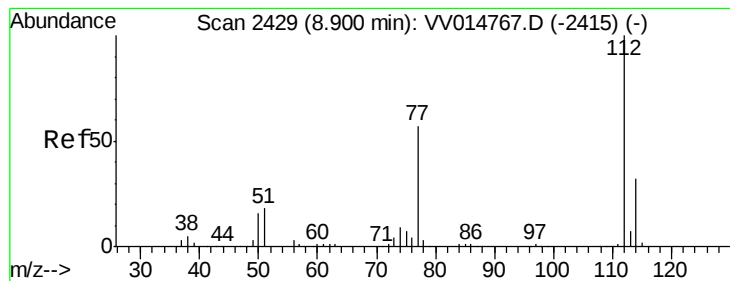
Tgt Ion: 75 Resp: 4879  
 Ion Ratio Lower Upper  
 75 100  
 77 49.0 22.8 42.4#



#48  
 2-Hexanone  
 Concen: 4.70 ug/L  
 RT: 8.12 min Scan# 2185  
 Delta R.T. -0.05 min  
 Lab File: VV014782.D  
 Acq: 09 Mar 2020 17:25

Tgt Ion: 43 Resp: 17798  
 Ion Ratio Lower Upper  
 43 100  
 58 33.9 43.3 64.9#  
 57 26.0 15.6 23.4#  
 100 0.6 8.7 13.1#





#51

Chlorobenzene

Concen: 1.98 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV014782.D

Acq: 09 Mar 2020 17:25

Instrument :

MSVOA\_V

ClientSampleId :

C0DJ8

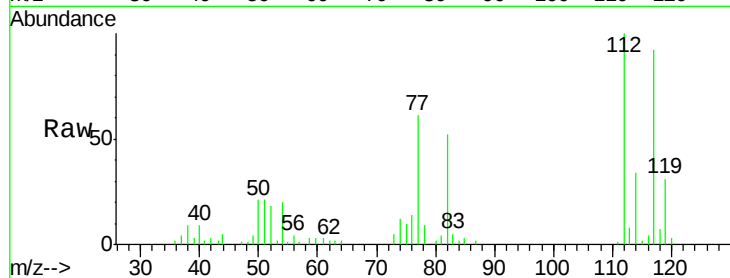
Tgt Ion: 112 Resp: 17324

Ion Ratio Lower Upper

112 100

114 33.7 22.1 41.1

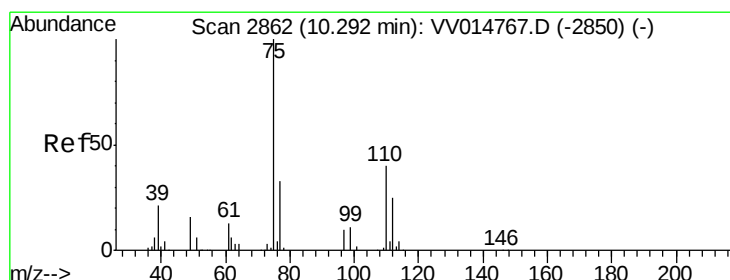
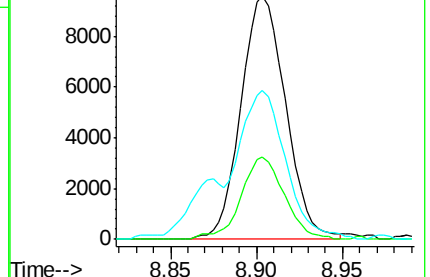
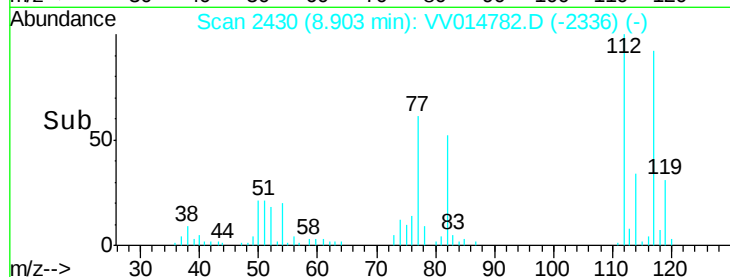
77 61.1 47.8 71.8



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): V



#59

1,2,3-Trichloropropane

Concen: 7.26 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.98 min

Lab File: VV014782.D

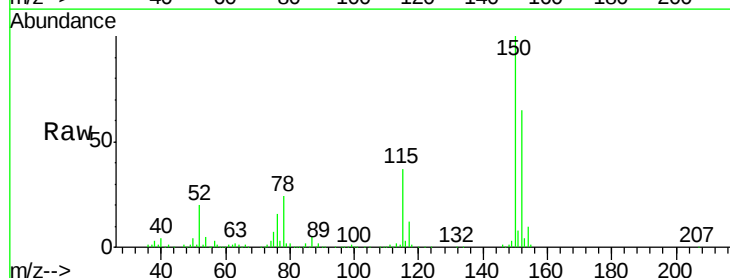
Acq: 09 Mar 2020 17:25

Tgt Ion: 75 Resp: 30796

Ion Ratio Lower Upper

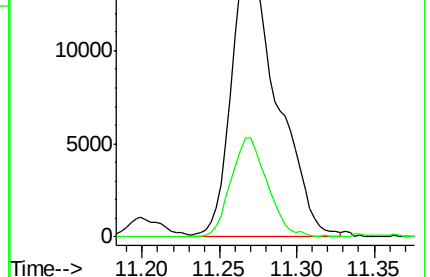
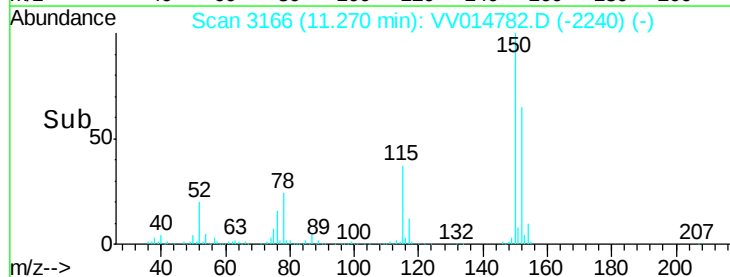
75 100

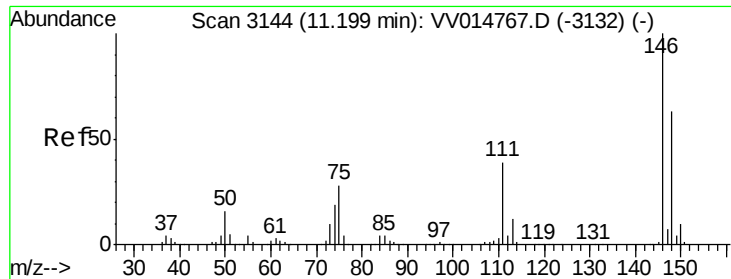
77 27.9 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

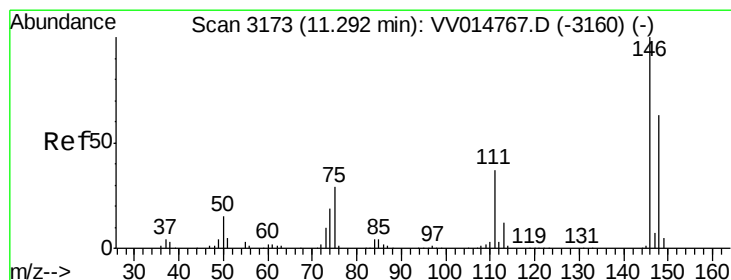
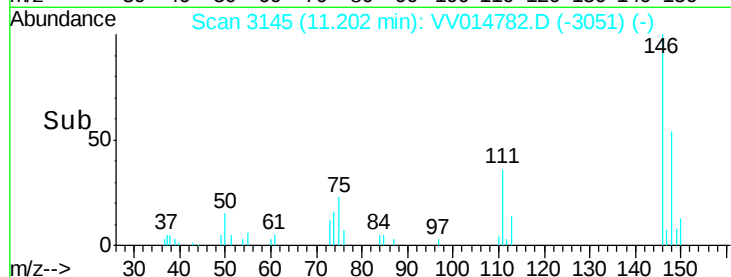
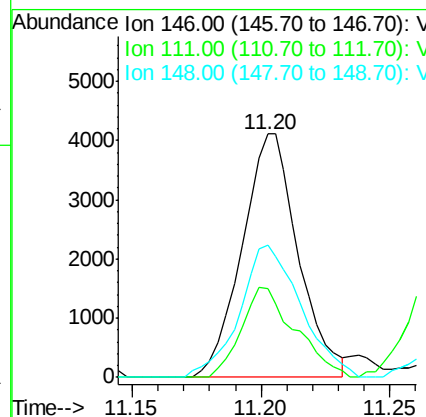
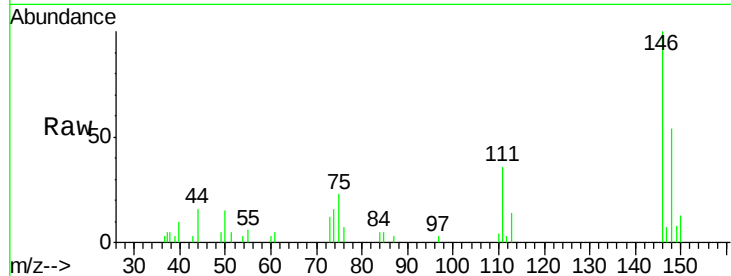




#62  
 1,3-Dichlorobenzene  
 Concen: 0.92 ug/L  
 RT: 11.20 min Scan# 3145  
 Delta R.T. 0.00 min  
 Lab File: VV014782.D  
 Acq: 09 Mar 2020 17:25

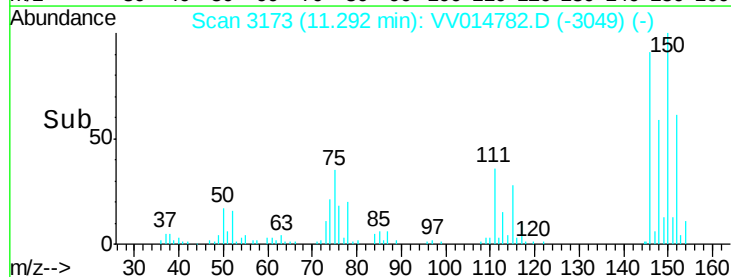
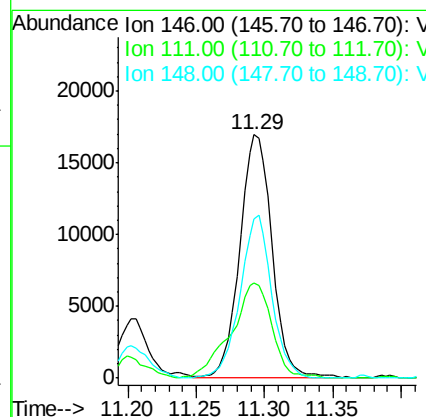
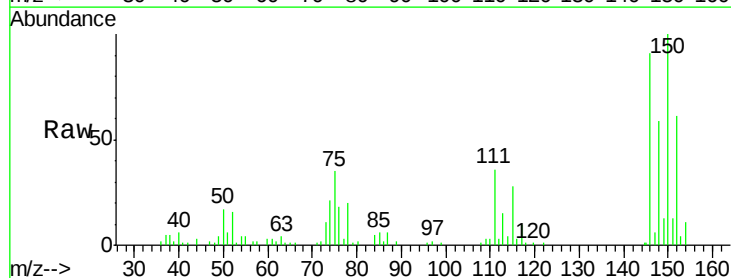
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 C0DJ8

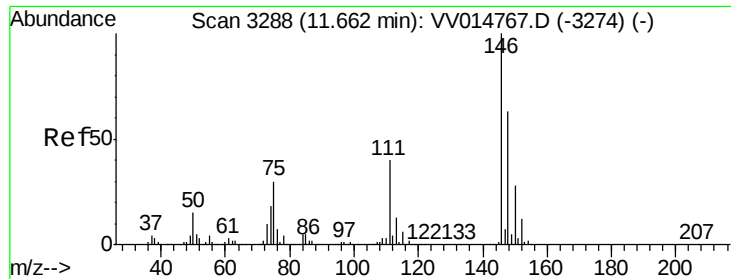
Tgt Ion:146 Resp: 6238  
 Ion Ratio Lower Upper  
 146 100  
 111 36.2 27.2 50.4  
 148 54.2 44.2 82.2



#63  
 1,4-Dichlorobenzene  
 Concen: 4.10 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. 0.00 min  
 Lab File: VV014782.D  
 Acq: 09 Mar 2020 17:25

Tgt Ion:146 Resp: 27930  
 Ion Ratio Lower Upper  
 146 100  
 111 39.3 26.3 48.9  
 148 65.4 44.0 81.8





#65

1,2-Dichlorobenzene

Concen: 3.19 ug/L

RT: 11.66 min Scan# 3288

Delta R.T. 0.00 min

Lab File: VV014782.D

Acq: 09 Mar 2020 17:25

Instrument :

MSVOA\_V

ClientSampleId :

C0DJ8

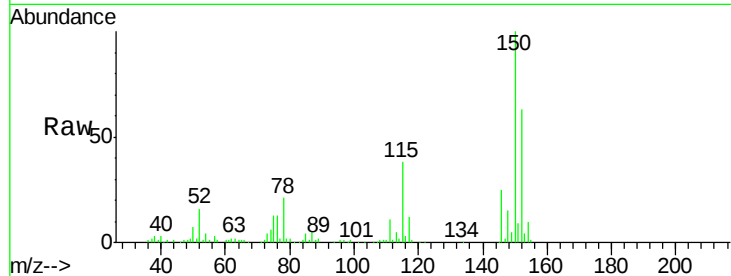
Tgt Ion:146 Resp: 21442

Ion Ratio Lower Upper

146 100

111 45.9 33.9 50.9

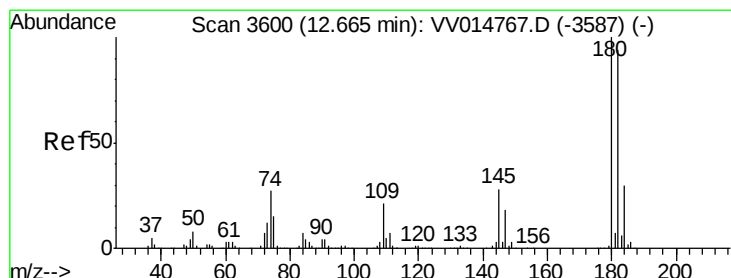
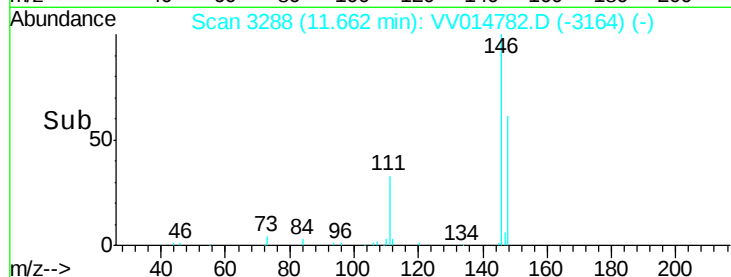
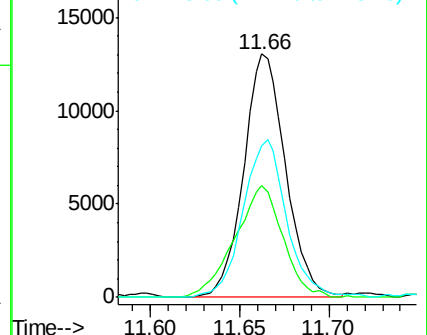
148 62.4 51.4 77.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 1.63 ug/L

RT: 13.28 min Scan# 3792

Delta R.T. 0.62 min

Lab File: VV014782.D

Acq: 09 Mar 2020 17:25

Tgt Ion:180 Resp: 8526

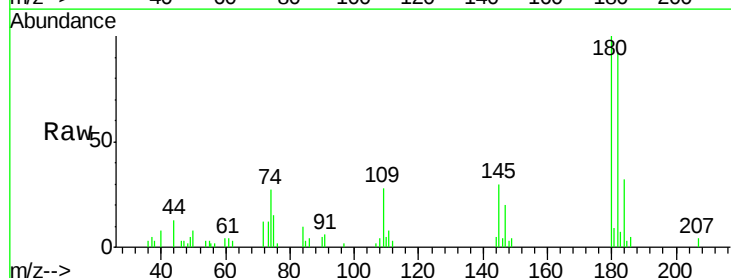
Ion Ratio Lower Upper

180 100

182 90.1 75.6 113.4

184 30.6 24.8 37.2

145 31.8 23.3 34.9

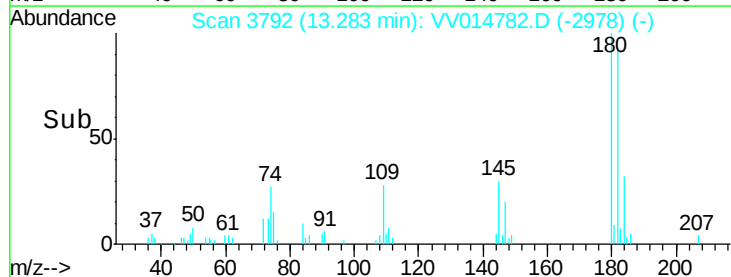
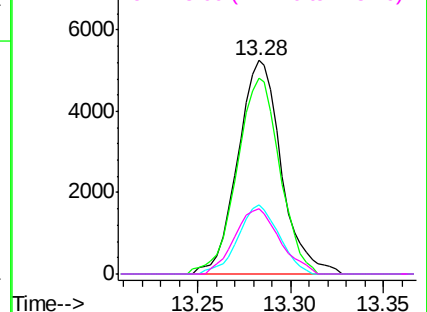


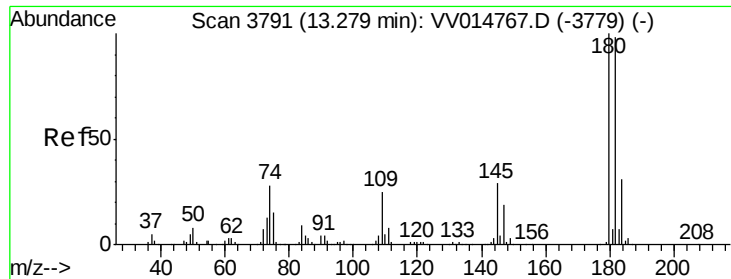
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

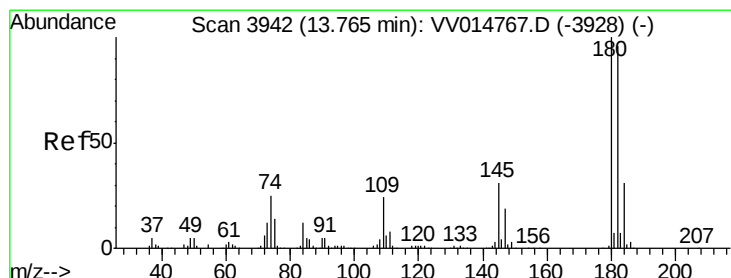
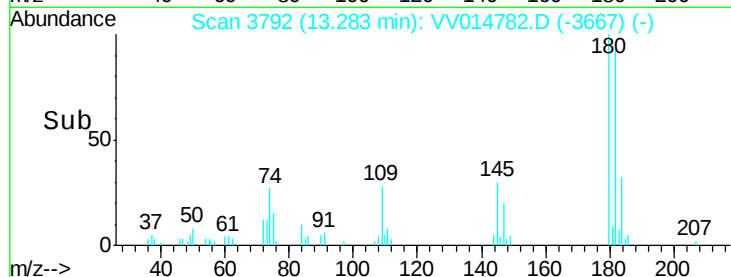
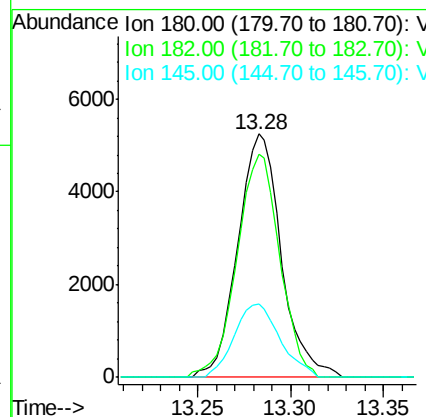
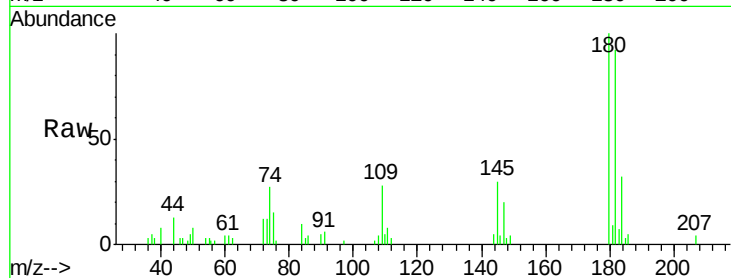




#68  
 1,2,4-trichlorobenzene  
 Concen: 1.77 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. 0.00 min  
 Lab File: VV014782.D  
 Acq: 09 Mar 2020 17:25

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DJ8

Tgt Ion:180 Resp: 8526  
 Ion Ratio Lower Upper  
 180 100  
 182 90.1 76.6 114.8  
 145 31.8 23.4 35.0



#70  
 1,2,3-Trichlorobenzene  
 Concen: 0.72 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. 0.00 min  
 Lab File: VV014782.D  
 Acq: 09 Mar 2020 17:25

Tgt Ion:180 Resp: 3453  
 Ion Ratio Lower Upper  
 180 100  
 182 104.4 76.5 114.7  
 145 30.4 25.0 37.4

