

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121819\  
 Data File : VV014122.D  
 Acq On : 18 Dec 2019 15:21  
 Operator : SY/MD  
 Sample : K6356-05DL 500X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0D40DL

Quant Time: Dec 19 08:16:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM120219WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Dec 19 07:06:05 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 761052   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 741492   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 342867   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 213932   | 48.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 97.20%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 205699   | 44.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 89.54%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 300235   | 30.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 61.70%  |
| 21) 2-Butanone-d5              | 3.92    | 46    | 315440   | 101.82   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 101.82% |
| 24) Chloroform-d               | 4.40    | 84    | 434862   | 47.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.08%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 273637   | 46.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.44%  |
| 32) Benzene-d6                 | 5.10    | 84    | 851177   | 44.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.11    | 67    | 275865   | 47.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.66%  |
| 41) Toluene-d8                 | 7.36    | 98    | 700911   | 40.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 80.02%  |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 112295   | 40.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 80.02%  |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 201812   | 93.71    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.71%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25   | 84    | 368839   | 44.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 88.34%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67   | 152   | 312918   | 46.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.94%  |

## Target Compounds

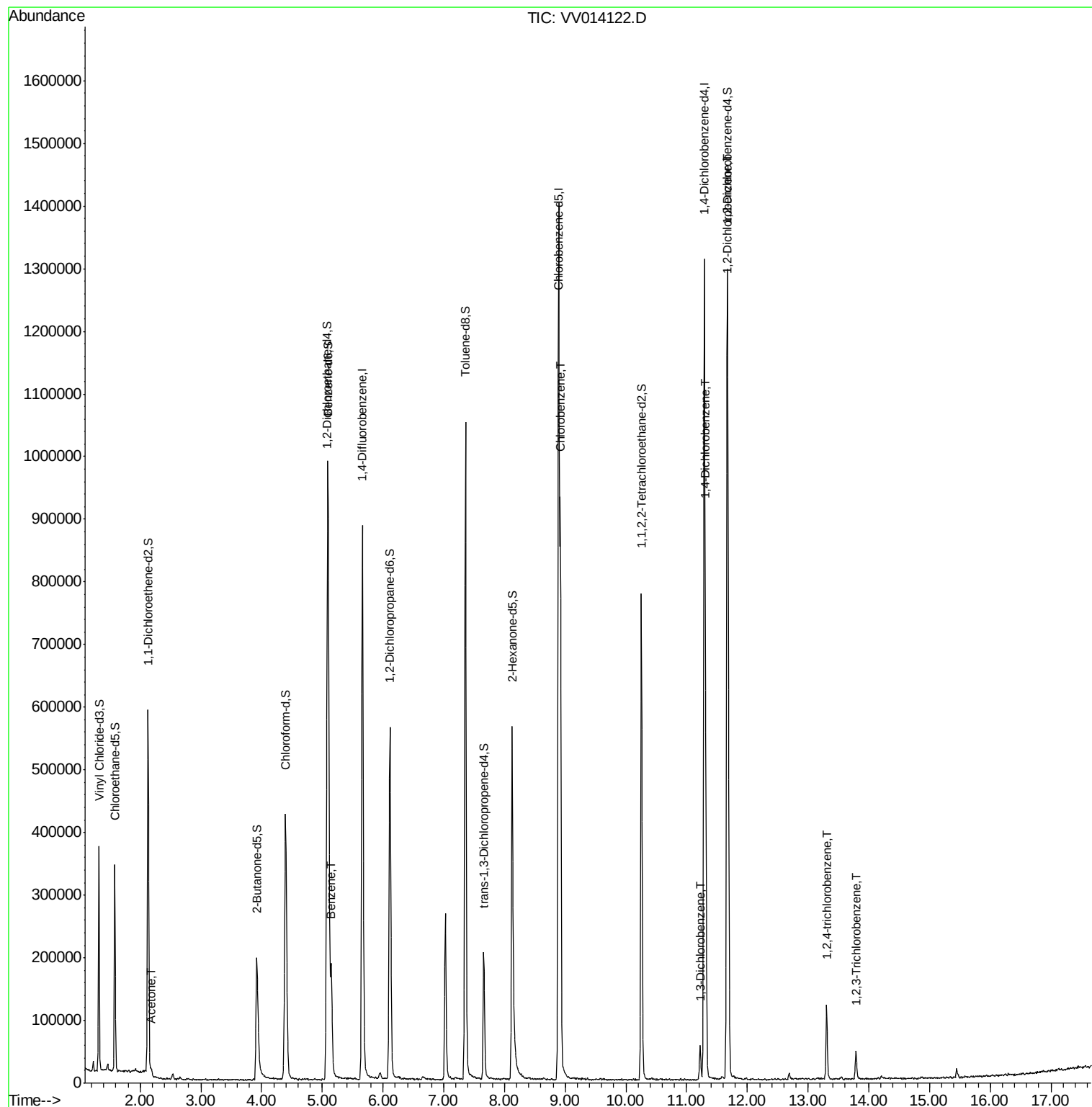
|                            |       |     |        |             | Ovalue |
|----------------------------|-------|-----|--------|-------------|--------|
| 13) Acetone                | 2.19  | 43  | 7169   | 1.579 ug/L  | 92     |
| 33) Benzene                | 5.14  | 78  | 174481 | 7.902 ug/L  | 100    |
| 51) Chlorobenzene          | 8.92  | 112 | 484763 | 30.840 ug/L | 98     |
| 62) 1,3-Dichlorobenzene    | 11.22 | 146 | 22998  | 2.044 ug/L  | 98     |
| 63) 1,4-Dichlorobenzene    | 11.31 | 146 | 214292 | 18.425 ug/L | 99     |
| 65) 1,2-Dichlorobenzene    | 11.68 | 146 | 287879 | 25.581 ug/L | 99     |
| 68) 1,2,4-trichlorobenzene | 13.31 | 180 | 37854  | 4.592 ug/L  | 99     |
| 70) 1,2,3-Trichlorobenzene | 13.79 | 180 | 14453  | 1.677 ug/L  | 97     |

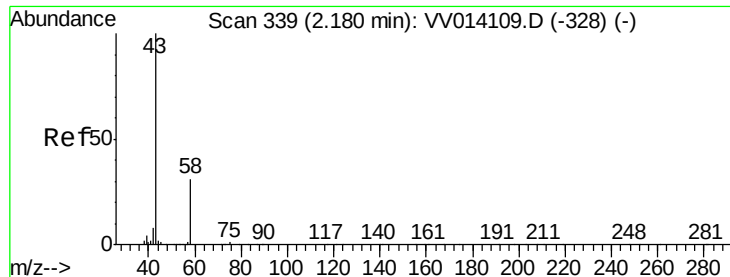
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Thu Dec 19 07:06:05 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 1.579 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VV014122.D

Acq: 18 Dec 2019 15:21

Instrument :

MSVOA\_V

ClientSampleId :

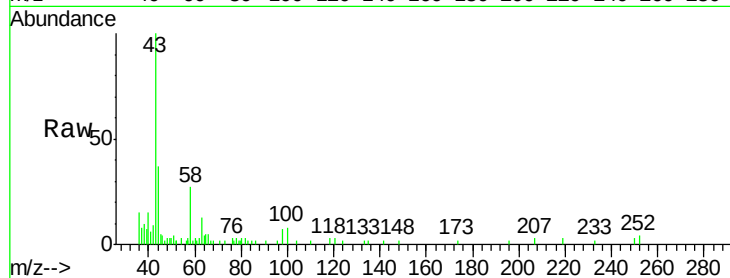
C0D40DL

Tot Ion: 43 Resp: 7169

Ion Ratio Lower Upper

43 100

58 34.6 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VV014109.D (-328) (-)

Ion 58.00 (57.70 to 58.70): VV014109.D (-328) (-)

2.19

6000

5000

4000

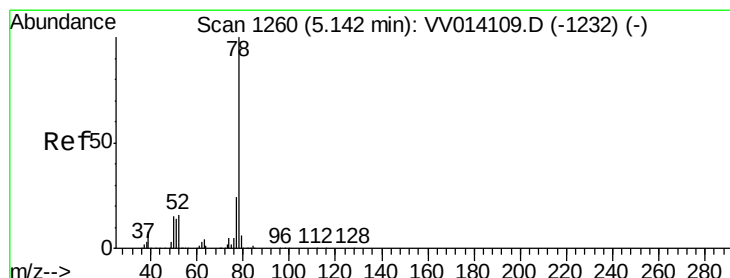
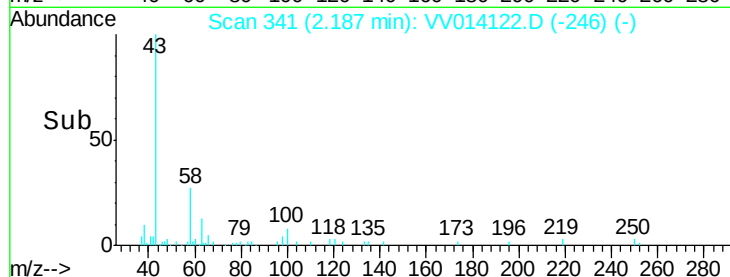
3000

2000

1000

0

Time-->



#33

Benzene

Concen: 7.902 ug/L

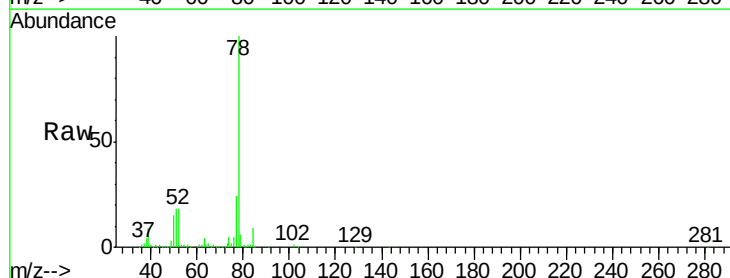
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VV014122.D

Acq: 18 Dec 2019 15:21

Tgt Ion: 78 Resp: 174481



Abundance Ion 78.00 (77.70 to 78.70): VV014109.D (-1232) (-)

80000

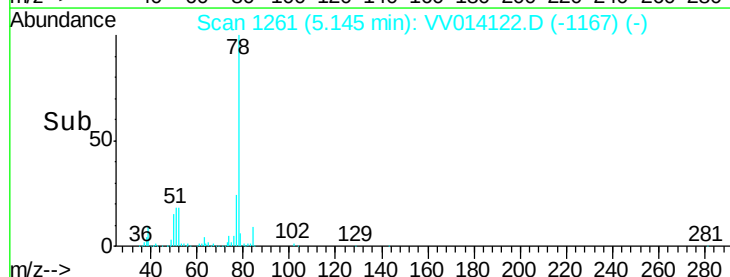
60000

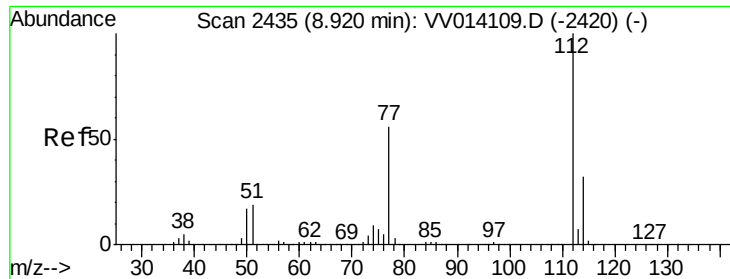
40000

20000

0

Time-->





#51

Chlorobenzene

Concen: 30.840 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VV014122.D

Acq: 18 Dec 2019 15:21

Instrument :

MSVOA\_V

ClientSampleId :

C0D40DL

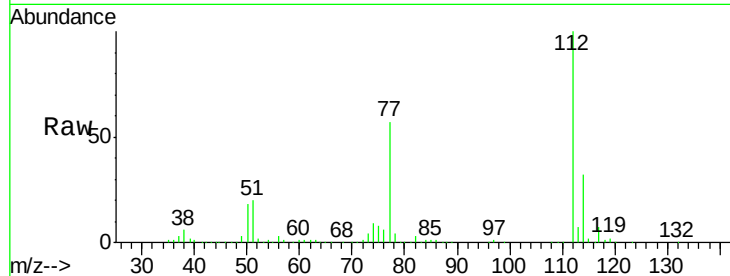
Tot Ion:112 Resp: 484763

Ion Ratio Lower Upper

112 100

114 31.7 23.2 43.2

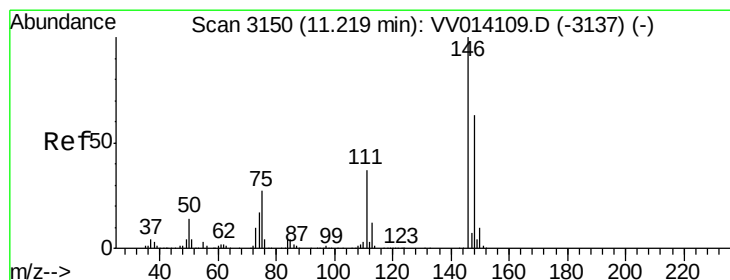
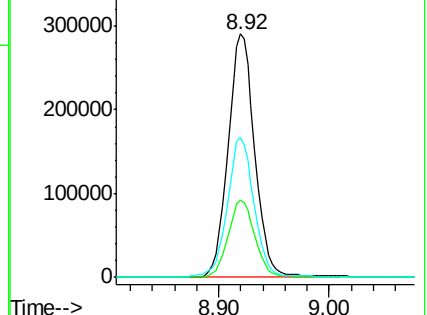
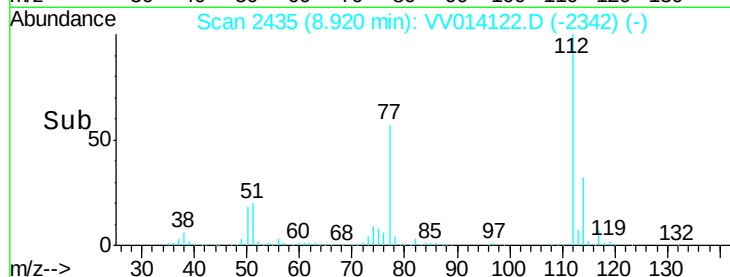
77 57.3 45.0 67.4



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



#62

1,3-Dichlorobenzene

Concen: 2.044 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. 0.01 min

Lab File: VV014122.D

Acq: 18 Dec 2019 15:21

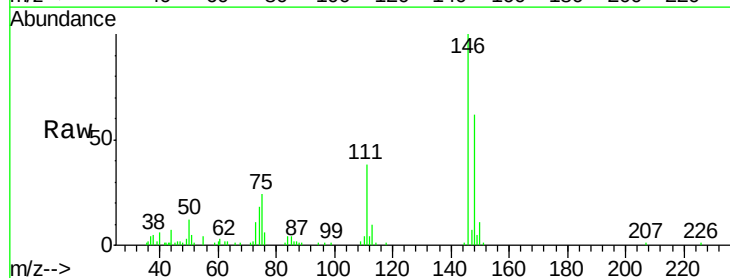
Tgt Ion:146 Resp: 22998

Ion Ratio Lower Upper

146 100

111 37.7 25.8 48.0

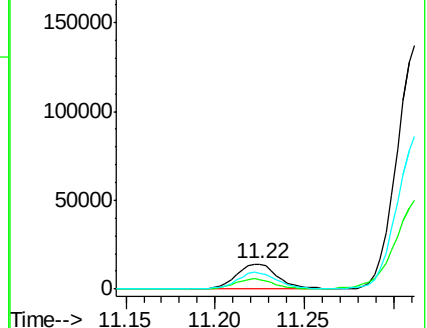
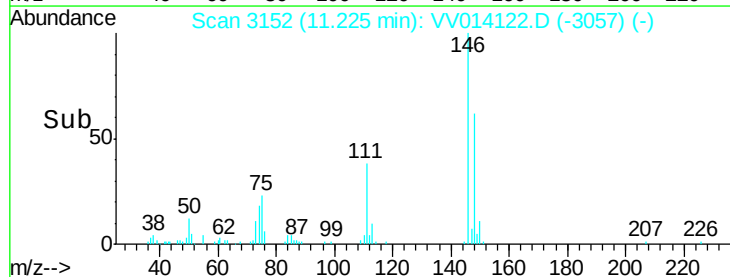
148 62.3 45.2 84.0

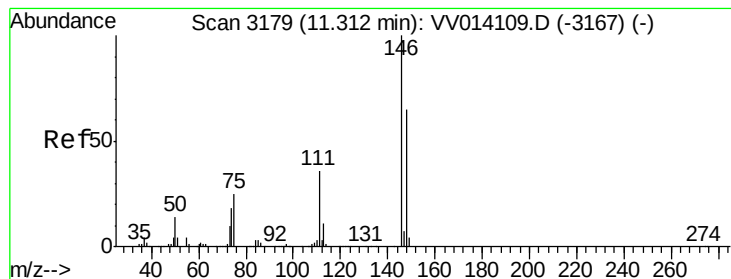


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 18.425 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. -0.00 min

Lab File: VV014122.D

Acq: 18 Dec 2019 15:21

Instrument :

MSVOA\_V

ClientSampled :

C0D40DL

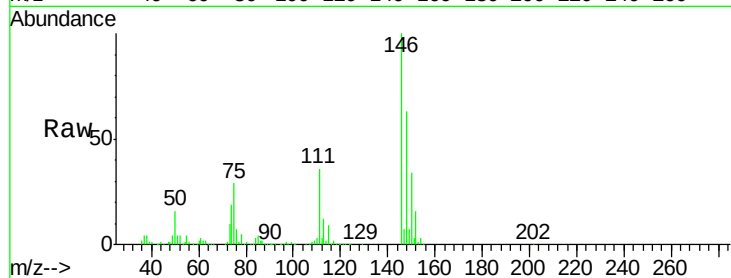
Tot Ion:146 Resp: 214292

Ion Ratio Lower Upper

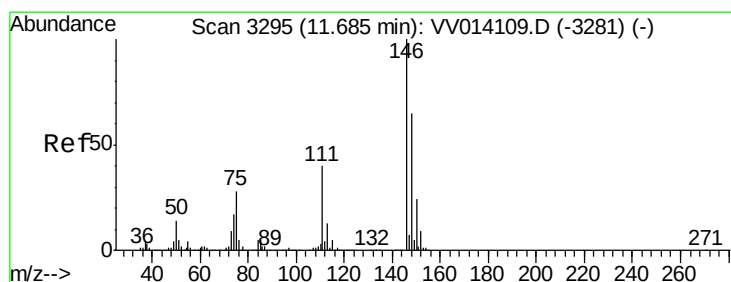
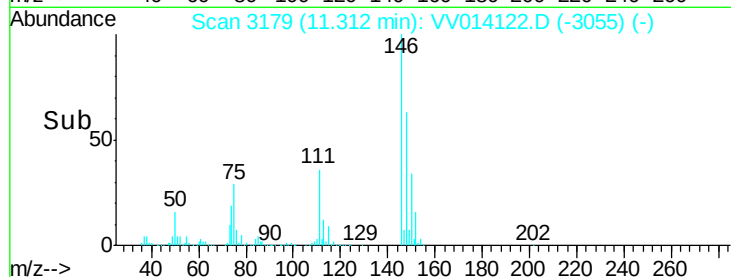
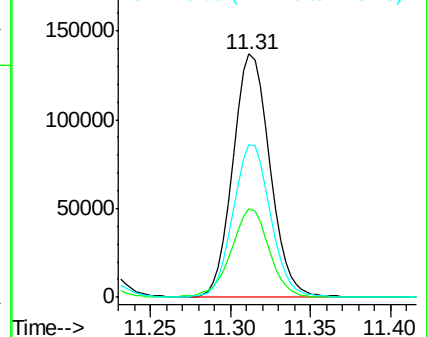
146 100

111 36.2 25.4 47.2

148 62.7 44.9 83.5



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



#65

1,2-Dichlorobenzene

Concen: 25.581 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. -0.00 min

Lab File: VV014122.D

Acq: 18 Dec 2019 15:21

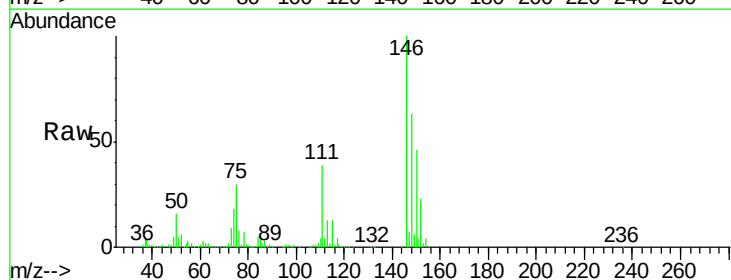
Tgt Ion:146 Resp: 287879

Ion Ratio Lower Upper

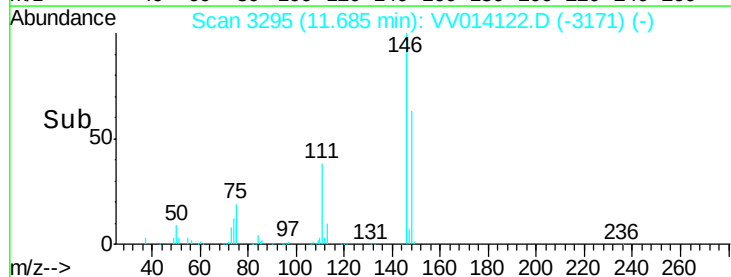
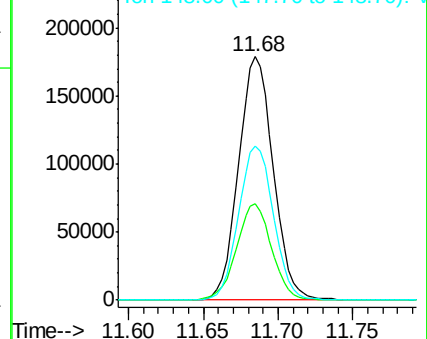
146 100

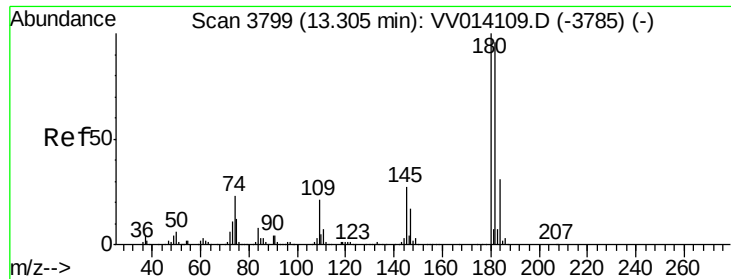
111 39.5 31.4 47.0

148 63.1 51.5 77.3



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

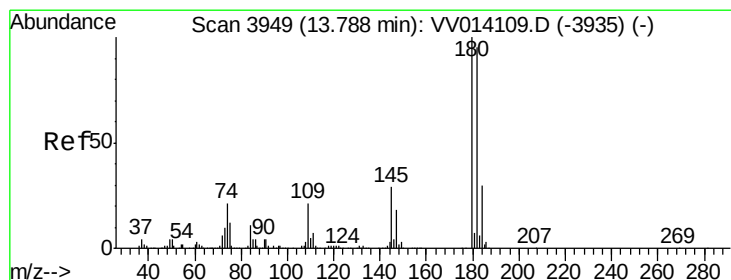
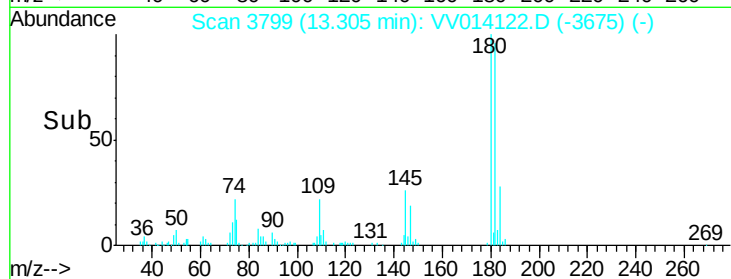
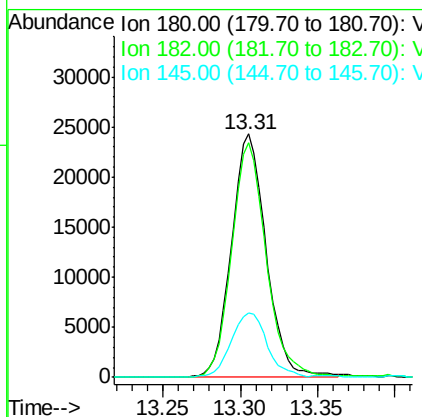
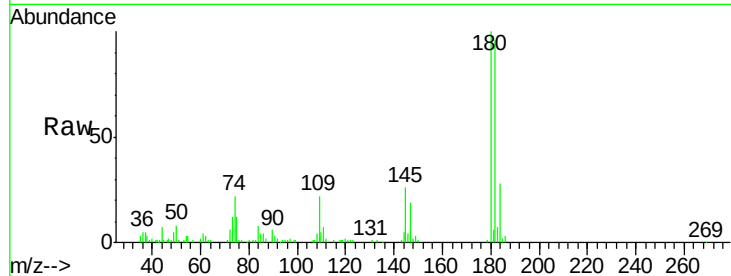




#68  
 1,2,4-trichlorobenzene  
 Concen: 4.592 ug/L  
 RT: 13.31 min Scan# 3799  
 Delta R.T. -0.00 min  
 Lab File: VV014122.D  
 Acq: 18 Dec 2019 15:21

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0D40DL

Tot Ion:180 Resp: 37854  
 Ion Ratio Lower Upper  
 180 100  
 182 96.2 76.2 114.4  
 145 27.4 21.9 32.9



#70  
 1,2,3-Trichlorobenzene  
 Concen: 1.677 ug/L  
 RT: 13.79 min Scan# 3949  
 Delta R.T. -0.00 min  
 Lab File: VV014122.D  
 Acq: 18 Dec 2019 15:21

Tgt Ion:180 Resp: 14453  
 Ion Ratio Lower Upper  
 180 100  
 182 98.7 77.0 115.4  
 145 31.7 22.6 34.0

