

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV040519\  
 Data File : VV010139.D  
 Acq On : 05 Apr 2019 18:48  
 Operator : SY/MD  
 Sample : K2168-16  
 Misc : 4.77G/10mL/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF658

Quant Time: Apr 05 23:50:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 05 23:46:15 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 156679   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 178510   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 62822    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 16356    | 7.80     | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 31.20%   |
| 7) Chloroethane-d5             | 1.56   | 69    | 28171    | 10.81    | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 43.24%   |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 41071    | 7.76     | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 31.04%#  |
| 20) 2-Butanone-d5              | 3.93   | 46    | 24653    | 41.30    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 82.60%   |
| 24) Chloroform-d               | 4.40   | 84    | 118749   | 30.08    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 120.32%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 90405    | 40.94    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 163.76%# |
| 29) Benzene-d6                 | 5.10   | 84    | 222346   | 24.02    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 96.08%   |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 86238    | 31.57    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 126.28%# |
| 37) Toluene-d8                 | 7.36   | 98    | 203834   | 22.85    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 91.40%   |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 23460    | 20.09    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 80.36%   |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 18571    | 33.89    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 67.78%   |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 75082    | 27.87    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 111.48%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 66724    | 27.27    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 109.08%  |

## Target Compounds

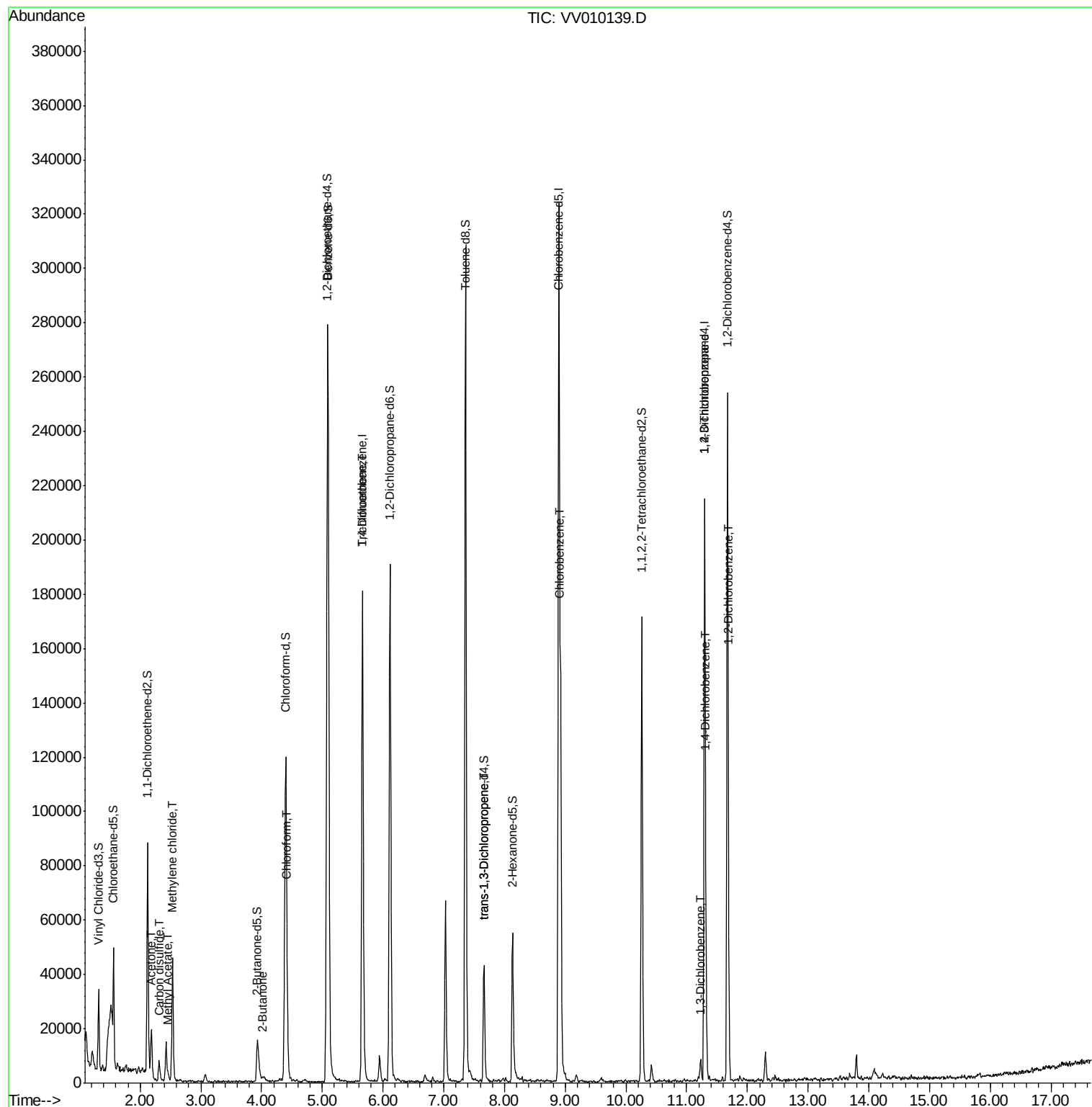
|                               |       |     |       |        | Qvalue    |
|-------------------------------|-------|-----|-------|--------|-----------|
| 13) Acetone                   | 2.19  | 43  | 16730 | 28.350 | ug/L 96   |
| 14) Carbon disulfide          | 2.31  | 76  | 4268  | 0.960  | ug/L 98   |
| 15) Methyl Acetate            | 2.46  | 43  | 2720  | 2.881  | ug/L # 55 |
| 16) Methylene chloride        | 2.53  | 84  | 18991 | 6.899  | ug/L 98   |
| 21) 2-Butanone                | 4.02  | 43  | 650   | 1.006  | ug/L 76   |
| 25) Chloroform                | 4.43  | 83  | 2524  | 0.708  | ug/L # 17 |
| 35) Trichloroethene           | 5.66  | 95  | 4636  | 1.845  | ug/L # 3  |
| 45) trans-1,3-Dichloropropene | 7.66  | 75  | 1342  | 0.494  | ug/L 88   |
| 52) Chlorobenzene             | 8.92  | 112 | 74433 | 11.138 | ug/L 97   |
| 59) 1,2,3-Trichloropropane    | 11.30 | 75  | 9073  | 5.037  | ug/L 96   |
| 63) 1,3-Dichlorobenzene       | 11.23 | 146 | 3443  | 0.934  | ug/L 88   |
| 64) 1,4-Dichlorobenzene       | 11.32 | 146 | 5278  | 1.374  | ug/L 93   |
| 65) 1,2-Dichlorobenzene       | 11.69 | 146 | 2276  | 0.628  | ug/L 94   |

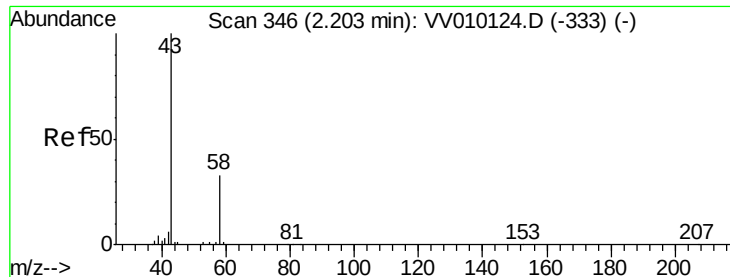
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV040519\  
Data File : VV010139.D  
Acq On : 05 Apr 2019 18:48  
Operator : SY/MD  
Sample : K2168-16  
Misc : 4.77G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
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BF658

Quant Time: Apr 05 23:50:48 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Apr 05 23:46:15 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 28.350 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.01 min

Lab File: VV010139.D

Acq: 05 Apr 2019 18:48

Instrument :

MSVOA\_V

ClientSampled :

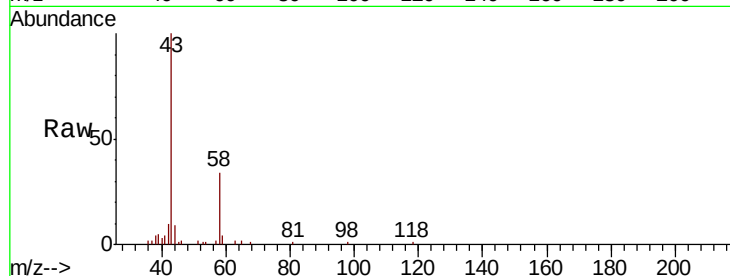
BF658

Tgt Ion: 43 Resp: 16730

Ion Ratio Lower Upper

43 100

58 34.7 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

12000

10000

8000

6000

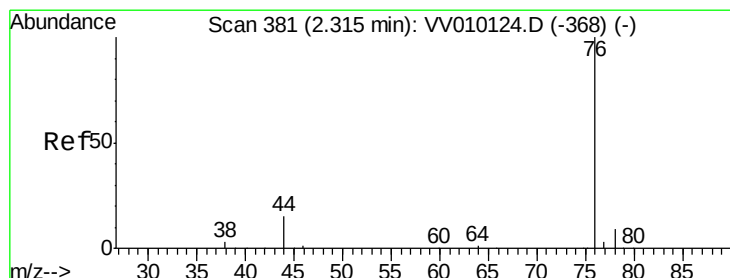
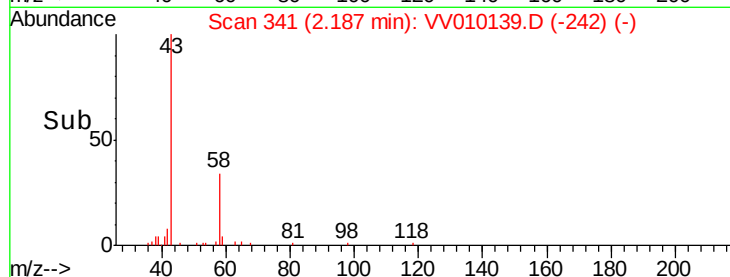
4000

2000

0

2.15 2.20 2.25

Time-->



#14

Carbon disulfide

Concen: 0.960 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV010139.D

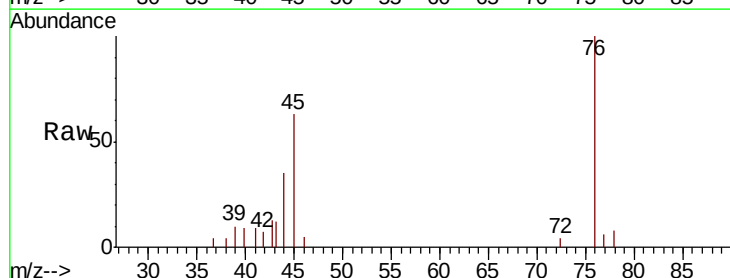
Acq: 05 Apr 2019 18:48

Tgt Ion: 76 Resp: 4268

Ion Ratio Lower Upper

76 100

78 8.2 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

3000

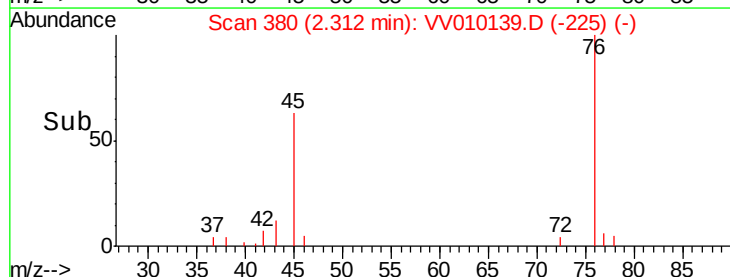
2000

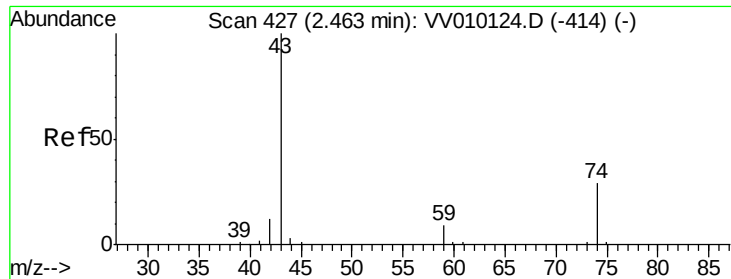
1000

0

2.30 2.35

Time-->





#15

Methyl Acetate

Concen: 2.881 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.01 min

Lab File: VV010139.D

Acq: 05 Apr 2019 18:48

Instrument :

MSVOA\_V

ClientSampleId :

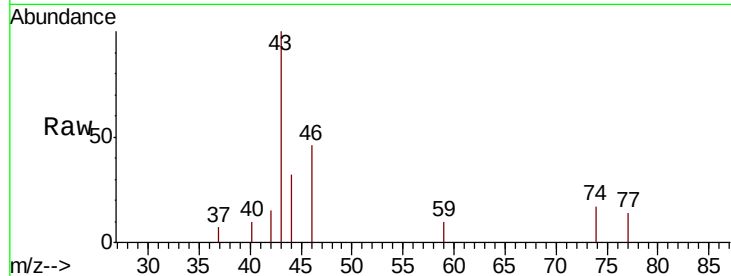
BF658

Tgt Ion: 43 Resp: 2720

Ion Ratio Lower Upper

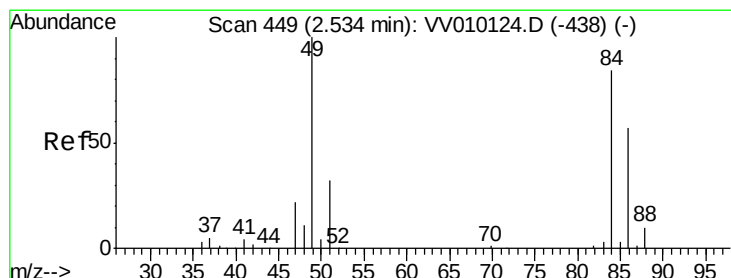
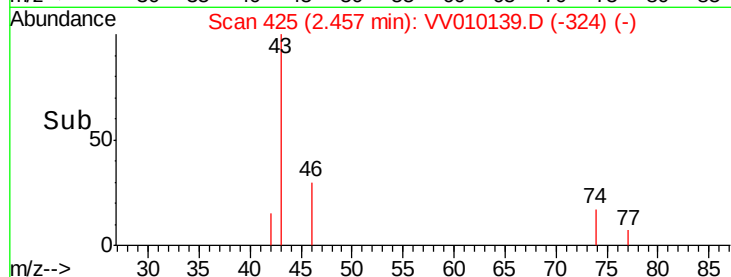
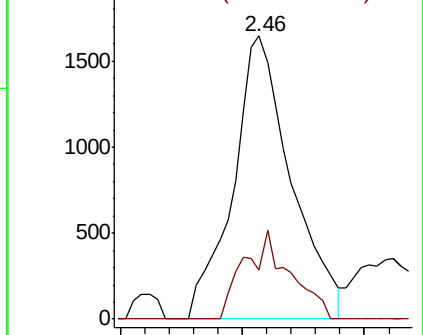
43 100

74 2.2 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 6.899 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV010139.D

Acq: 05 Apr 2019 18:48

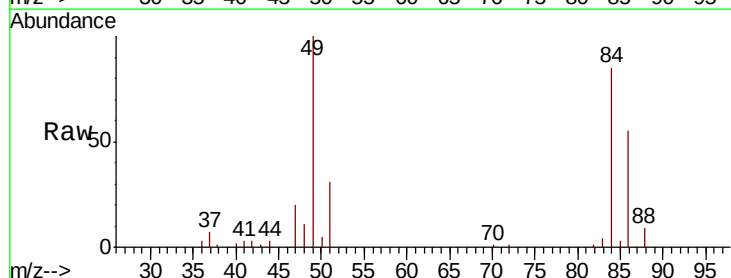
Tgt Ion: 84 Resp: 18991

Ion Ratio Lower Upper

84 100

49 117.6 84.3 156.5

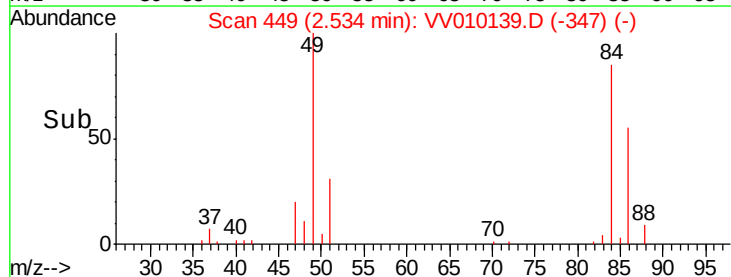
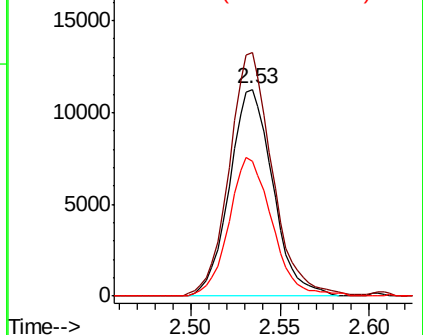
86 65.0 45.4 84.2

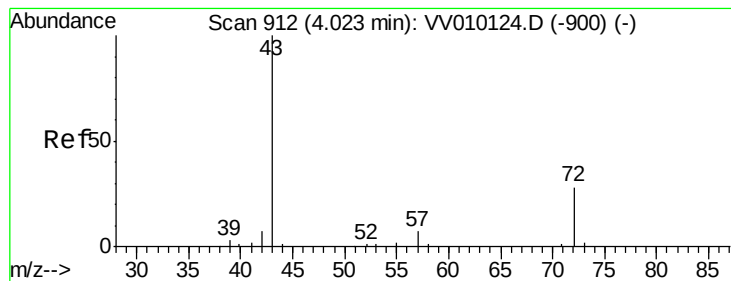


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0





#21

2-Butanone

Concen: 1.006 ug/L

RT: 4.02 min Scan# 911

Delta R.T. -0.01 min

Lab File: VV010139.D

Acq: 05 Apr 2019 18:48

Instrument :

MSVOA\_V

ClientSampled :

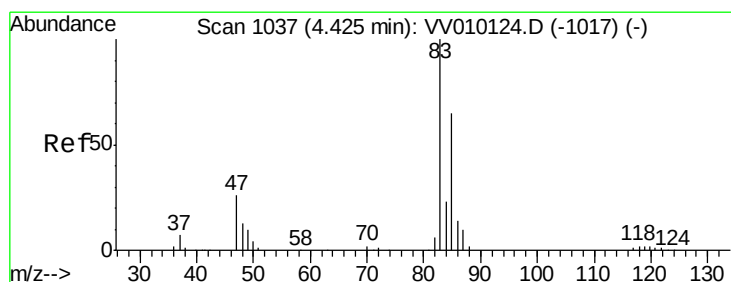
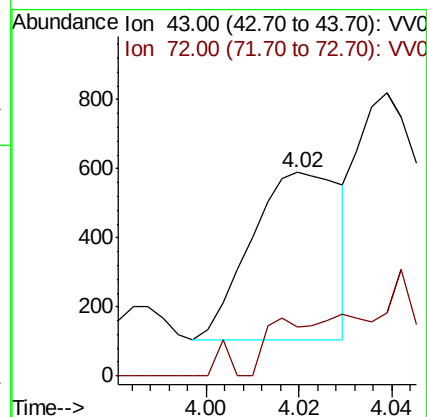
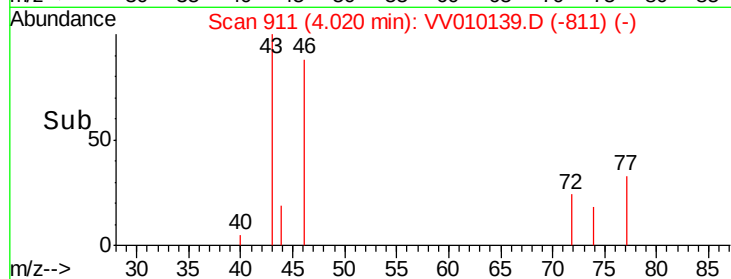
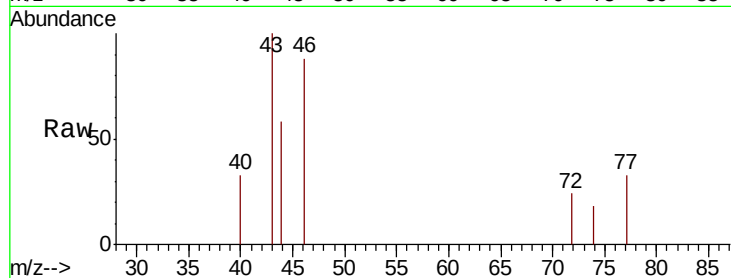
BF658

Tgt Ion: 43 Resp: 650

Ion Ratio Lower Upper

43 100

72 13.5 12.8 38.4



#25

Chloroform

Concen: 0.708 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. 0.00 min

Lab File: VV010139.D

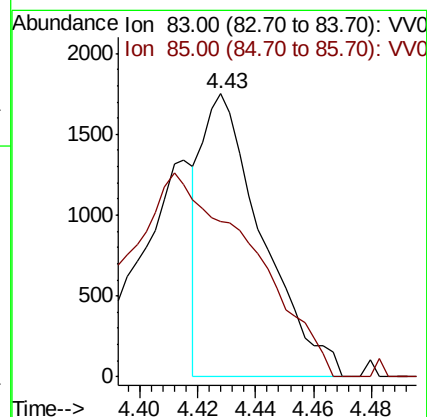
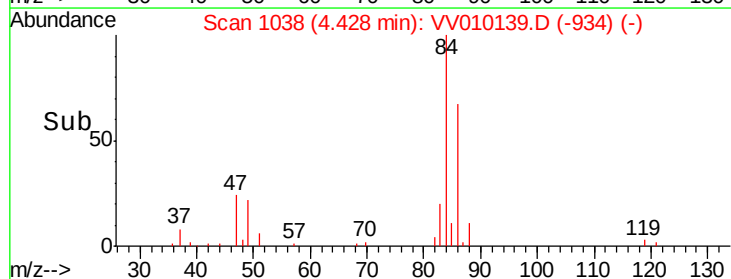
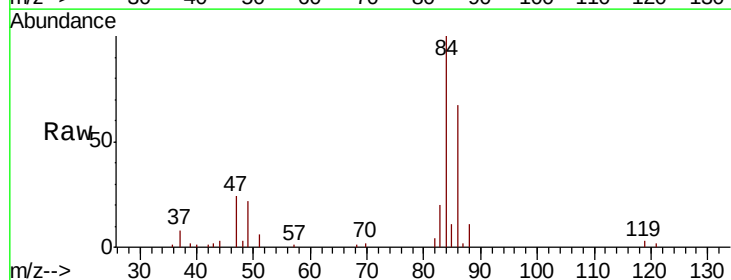
Acq: 05 Apr 2019 18:48

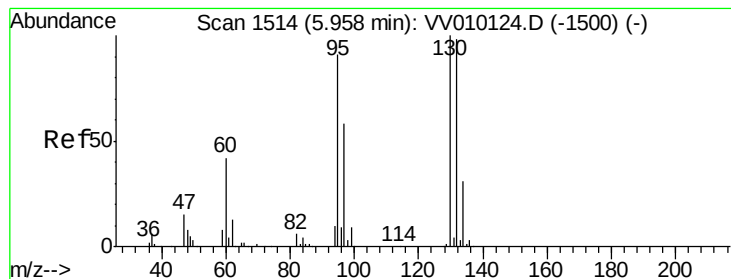
Tgt Ion: 83 Resp: 2524

Ion Ratio Lower Upper

83 100

85 0.0 46.4 86.2#





#35

Trichloroethene

Concen: 1.845 ug/L

RT: 5.66 min Scan# 1422

Delta R.T. -0.30 min

Lab File: VV010139.D

Acq: 05 Apr 2019 18:48

Instrument :

MSVOA\_V

ClientSampleId :

BF658

Tgt Ion: 95 Resp: 4636

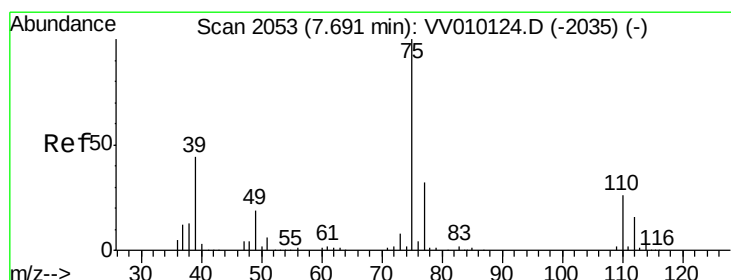
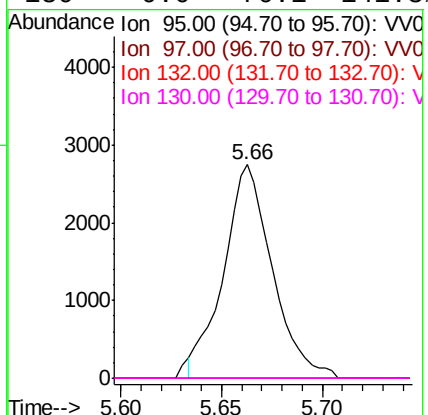
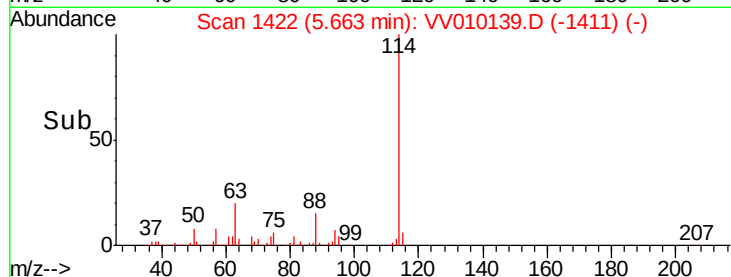
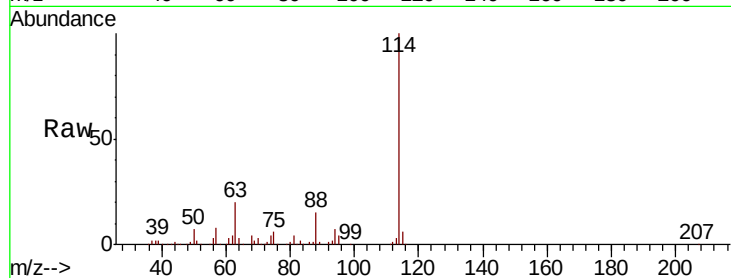
Ion Ratio Lower Upper

95 100

97 0.0 45.8 85.2#

132 2.0 70.6 131.0#

130 0.0 76.1 141.3#



#45

trans-1,3-Dichloropropene

Concen: 0.494 ug/L

RT: 7.66 min Scan# 2044

Delta R.T. -0.03 min

Lab File: VV010139.D

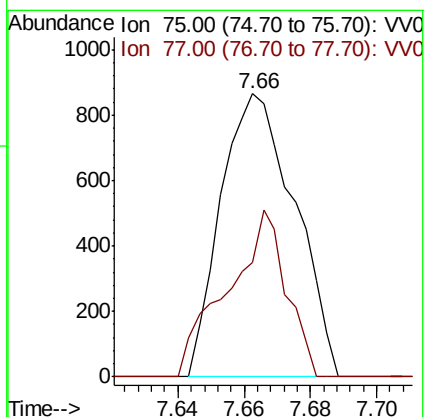
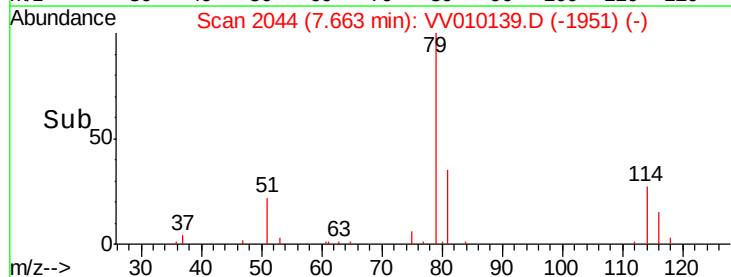
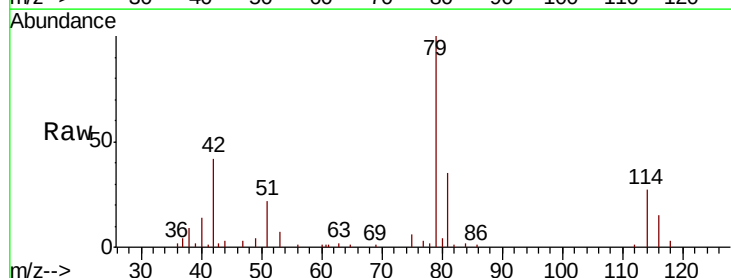
Acq: 05 Apr 2019 18:48

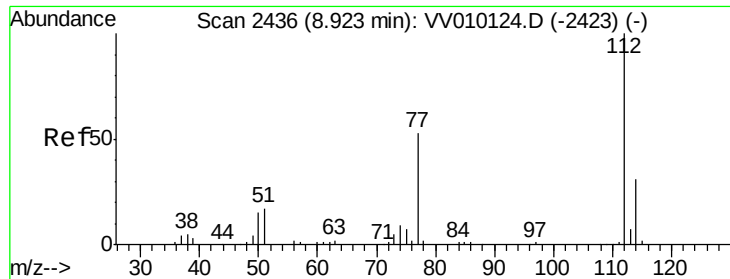
Tgt Ion: 75 Resp: 1342

Ion Ratio Lower Upper

75 100

77 40.5 23.5 43.7





#52

Chlorobenzene

Concen: 11.138 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV010139.D

Acq: 05 Apr 2019 18:48

Instrument :

MSVOA\_V

ClientSampleId :

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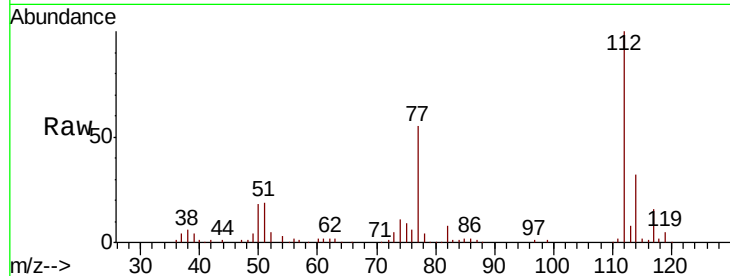
Tgt Ion: 112 Resp: 74433

Ion Ratio Lower Upper

112 100

77 55.4 42.9 64.3

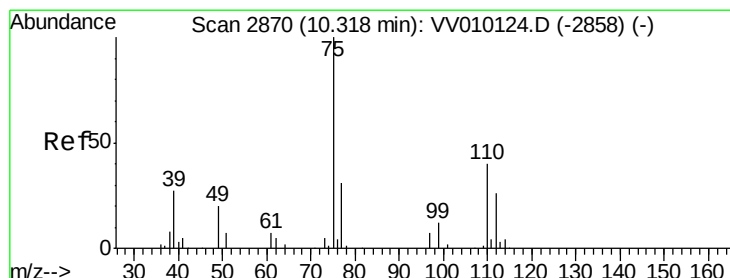
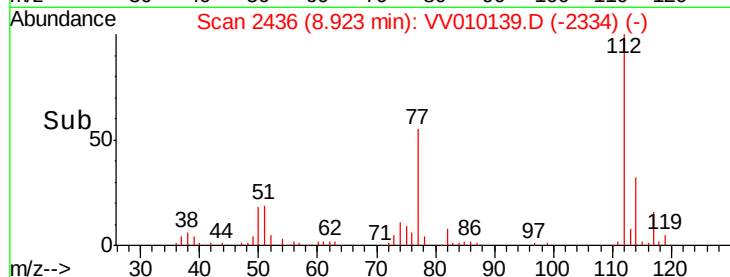
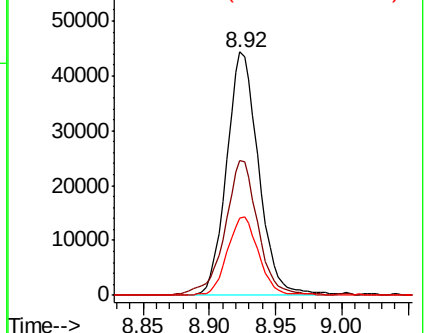
114 31.6 23.4 43.4



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V



#59

1,2,3-Trichloropropane

Concen: 5.037 ug/L

RT: 11.30 min Scan# 3175

Delta R.T. 0.98 min

Lab File: VV010139.D

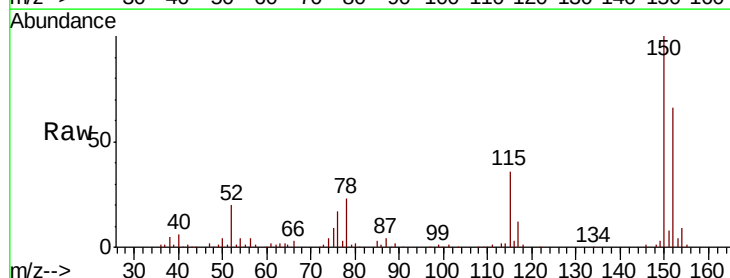
Acq: 05 Apr 2019 18:48

Tgt Ion: 75 Resp: 9073

Ion Ratio Lower Upper

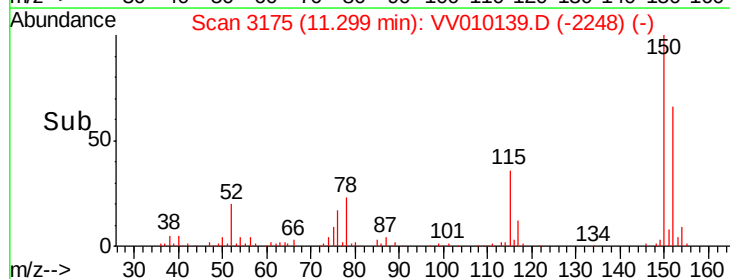
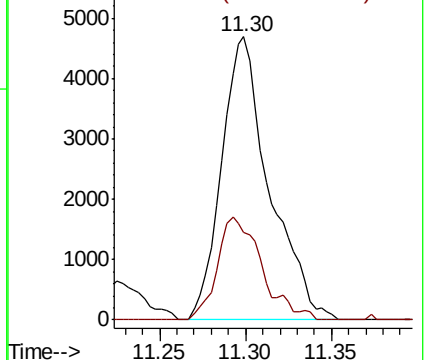
75 100

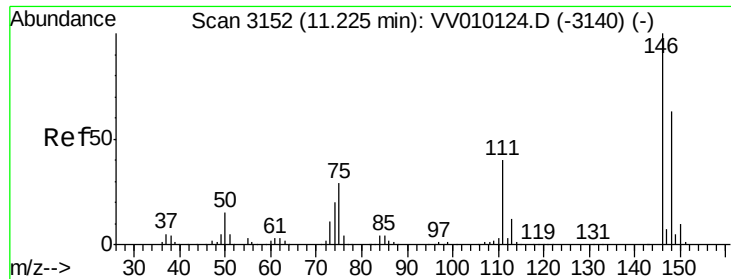
77 30.3 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

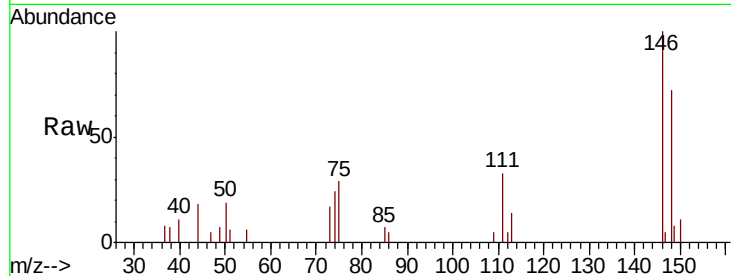




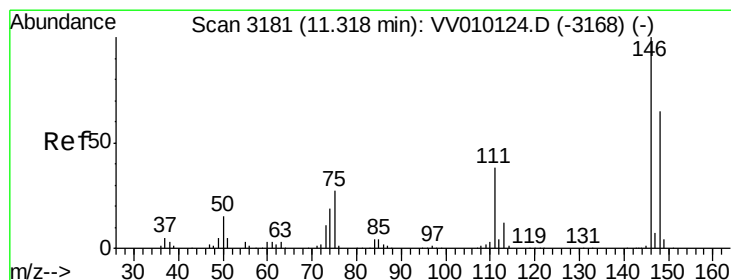
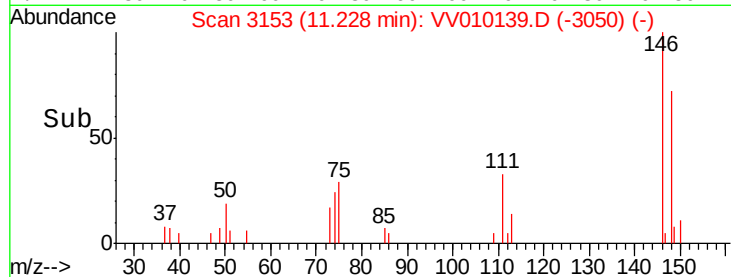
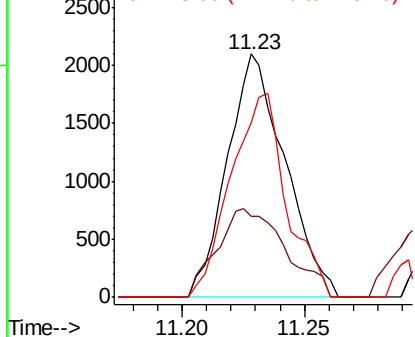
#63  
 1,3-Dichlorobenzene  
 Concen: 0.934 ug/L  
 RT: 11.23 min Scan# 3153  
 Delta R.T. 0.00 min  
 Lab File: VV010139.D  
 Acq: 05 Apr 2019 18:48

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 BF658

Tgt Ion:146 Resp: 3443  
 Ion Ratio Lower Upper  
 146 100  
 111 33.4 26.8 49.8  
 148 71.8 42.7 79.3

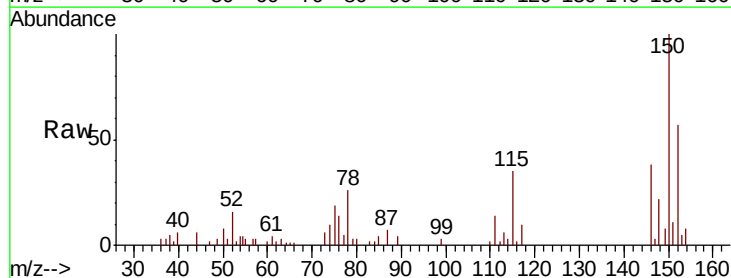


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

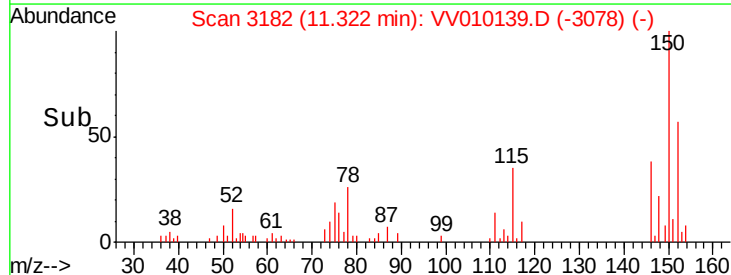
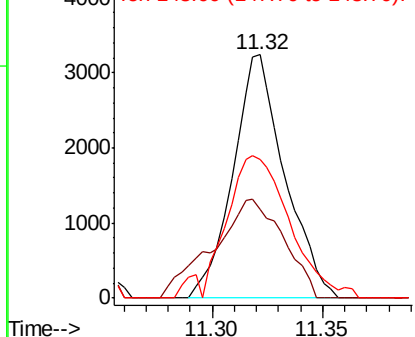


#64  
 1,4-Dichlorobenzene  
 Concen: 1.374 ug/L  
 RT: 11.32 min Scan# 3182  
 Delta R.T. 0.00 min  
 Lab File: VV010139.D  
 Acq: 05 Apr 2019 18:48

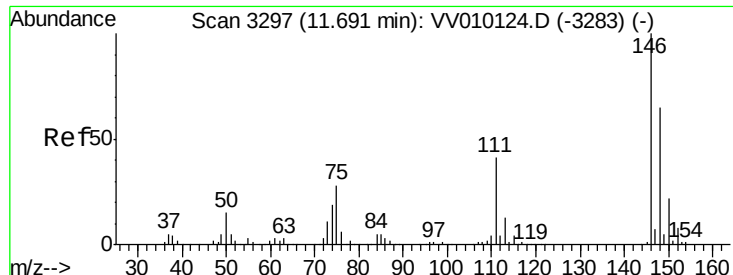
Tgt Ion:146 Resp: 5278  
 Ion Ratio Lower Upper  
 146 100  
 111 36.6 26.9 50.1  
 148 57.2 45.6 84.6



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: 0.628 ug/L  
 RT: 11.69 min Scan# 3298  
 Delta R.T. 0.00 min  
 Lab File: VV010139.D  
 Acq: 05 Apr 2019 18:48

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF658

Tgt Ion:146 Resp: 2276  
 Ion Ratio Lower Upper  
 146 100  
 111 44.4 33.2 49.8  
 148 59.4 51.4 77.0

