

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV010419\  
 Data File : VV009159.D  
 Acq On : 04 Jan 2019 13:03  
 Operator : SY/MD  
 Sample : IBLK  
 Misc : 5.00 G/10ML/MSVOA\_V/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 IBLK

Quant Time: Jan 05 04:24:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM010419S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jan 05 04:20:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 192243   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 173225   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 86423    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 25502  | 19.40 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 30301  | 23.76 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 65412  | 14.88 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.97  | 46  | 35369  | 38.80 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 83620  | 20.66 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 47093  | 21.75 | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 168865 | 21.88 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 48762  | 22.04 | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 153984 | 21.15 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.67  | 79  | 20688  | 19.70 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.15  | 63  | 22708  | 43.48 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 53412  | 21.96 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 63319  | 21.68 | ug/L | 0.00 |

## Target Compounds

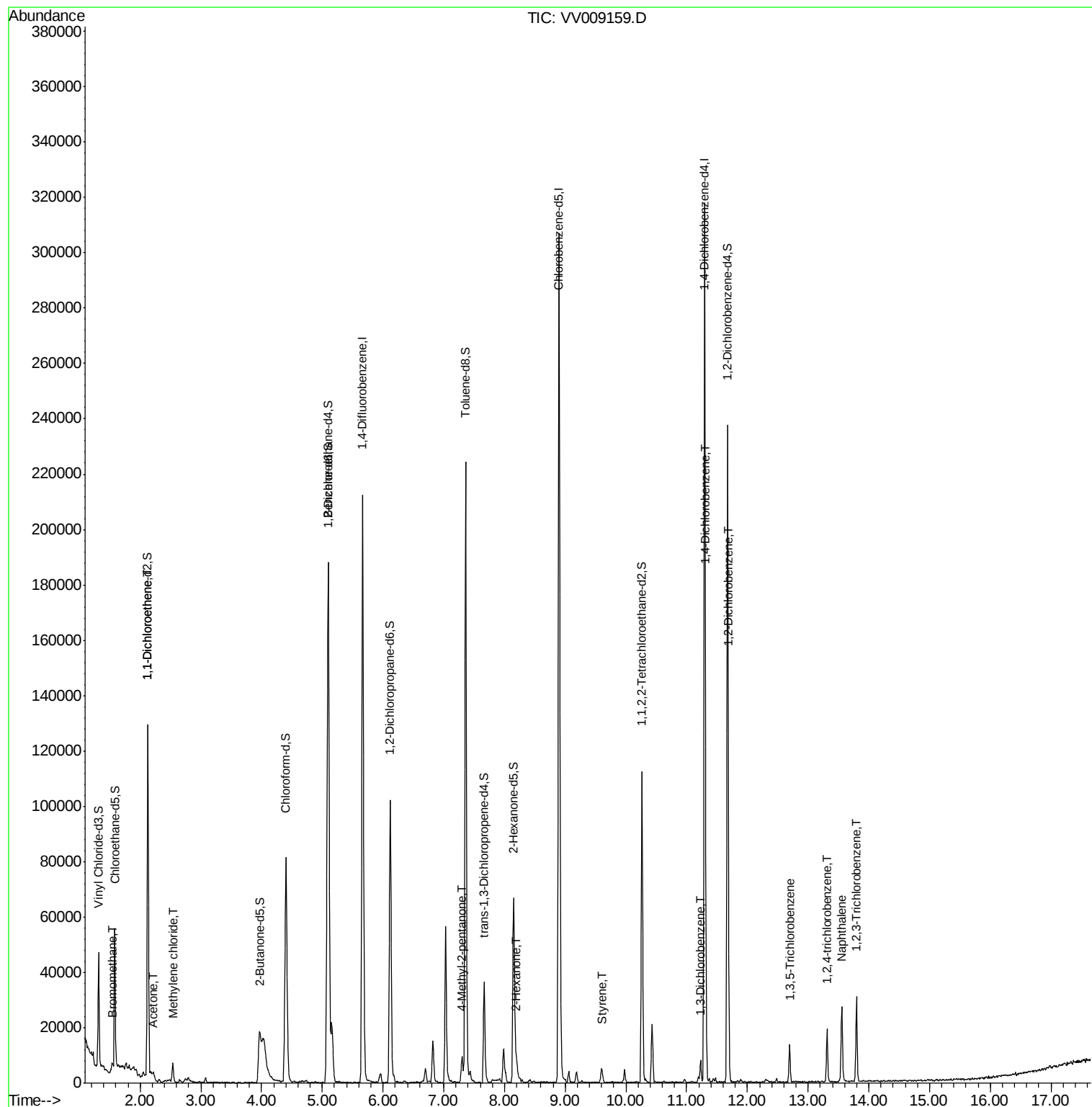
|                            |       |     |       |              | Qvalue |
|----------------------------|-------|-----|-------|--------------|--------|
| 6) Bromomethane            | 1.54  | 94  | 920   | 0.583 ug/L   | 85     |
| 12) 1,1-Dichloroethene     | 2.13  | 96  | 997   | 0.420 ug/L # | 1      |
| 13) Acetone                | 2.22  | 43  | 4093  | 3.122 ug/L   | 99     |
| 16) Methylene chloride     | 2.54  | 84  | 2992  | 1.042 ug/L   | 84     |
| 43) 4-Methyl-2-pentanone   | 7.29  | 43  | 1977  | 0.924 ug/L # | 68     |
| 49) 2-Hexanone             | 8.20  | 43  | 4522  | 2.872 ug/L # | 92     |
| 56) Styrene                | 9.61  | 104 | 2172  | 0.315 ug/L   | 91     |
| 63) 1,3-Dichlorobenzene    | 11.23 | 146 | 3768  | 0.692 ug/L   | 97     |
| 64) 1,4-Dichlorobenzene    | 11.32 | 146 | 4529  | 0.798 ug/L   | 97     |
| 65) 1,2-Dichlorobenzene    | 11.69 | 146 | 3750  | 0.723 ug/L # | 89     |
| 67) 1,3,5-Trichlorobenzene | 12.69 | 180 | 4674  | 1.064 ug/L   | 97     |
| 68) 1,2,4-trichlorobenzene | 13.31 | 180 | 6472  | 1.811 ug/L   | 94     |
| 69) Naphthalene            | 13.56 | 128 | 24060 | 3.305 ug/L   | 99     |
| 70) 1,2,3-Trichlorobenzene | 13.80 | 180 | 6840  | 2.085 ug/L   | 92     |

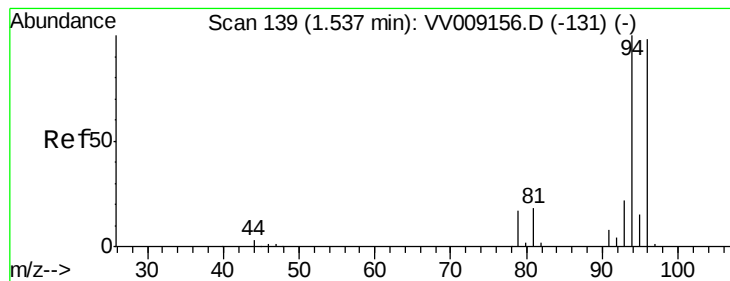
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV010419\  
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Instrument :  
MSVOA\_V  
ClientSampleId :  
IBLK

Quant Time: Jan 05 04:24:42 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM010419S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jan 05 04:20:20 2019  
Response via : Initial Calibration





#6

Bromomethane

Concen: 0.583 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV009159.D

Acq: 04 Jan 2019 13:03

Instrument :

MSVOA\_V

ClientSampleId :

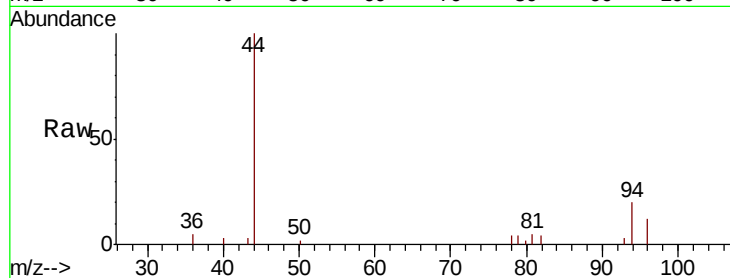
IBLK

Tgt Ion: 94 Resp: 920

Ion Ratio Lower Upper

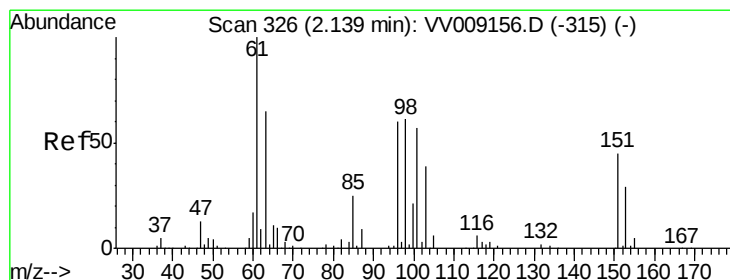
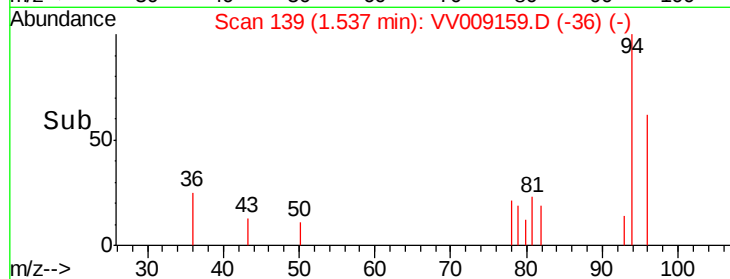
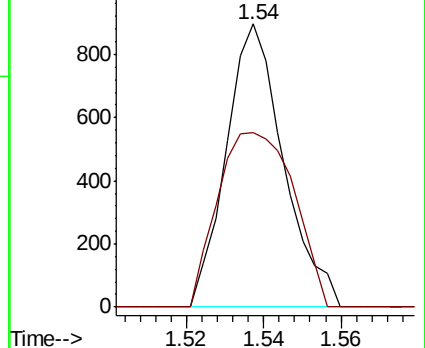
94 100

96 82.4 9.7 185.1



Abundance Ion 94.00 (93.70 to 94.70): VV009159.D (-131) (-)

Ion 96.00 (95.70 to 96.70): VV009159.D (-131) (-)



#12

1,1-Dichloroethene

Concen: 0.420 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV009159.D

Acq: 04 Jan 2019 13:03

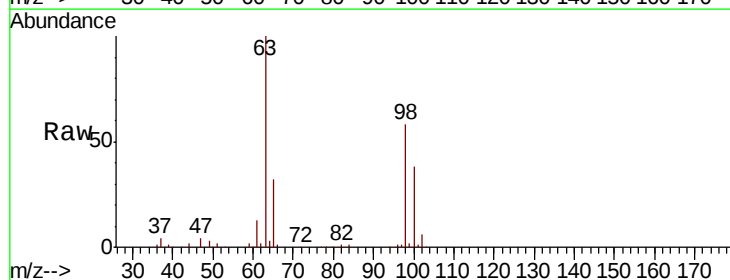
Tgt Ion: 96 Resp: 997

Ion Ratio Lower Upper

96 100

61 1018.6 117.0 217.4#

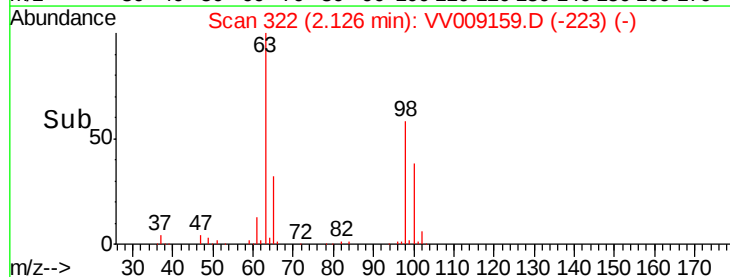
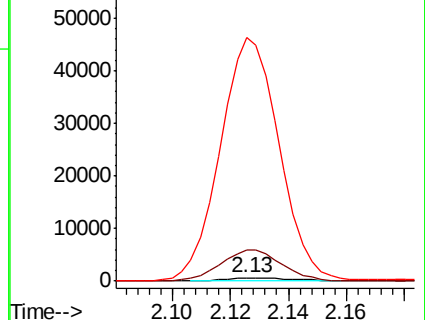
63 8065.5 78.2 145.2#

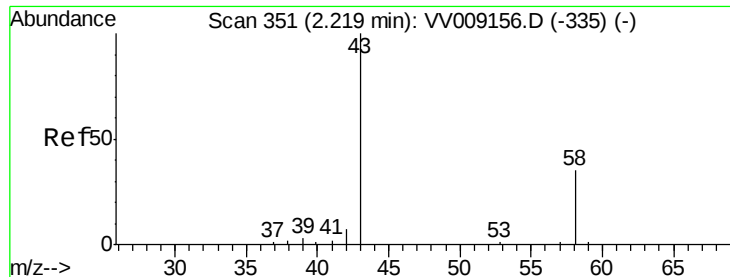


Abundance Ion 96.00 (95.70 to 96.70): VV009159.D (-223) (-)

Ion 61.00 (60.70 to 61.70): VV009159.D (-223) (-)

Ion 63.00 (62.70 to 63.70): VV009159.D (-223) (-)





#13

Acetone

Concen: 3.122 ug/L

RT: 2.22 min Scan# 351

Delta R.T. -0.00 min

Lab File: VV009159.D

Acq: 04 Jan 2019 13:03

Instrument :

MSVOA\_V

ClientSampled :

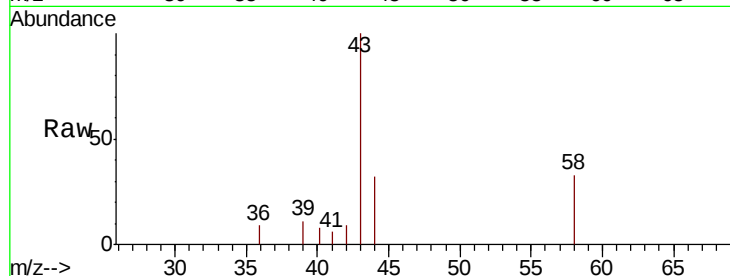
IBLK

Tgt Ion: 43 Resp: 4093

Ion Ratio Lower Upper

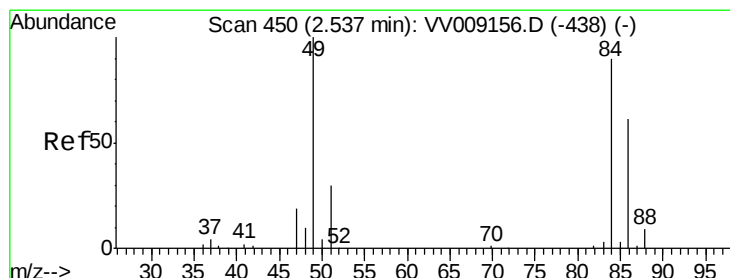
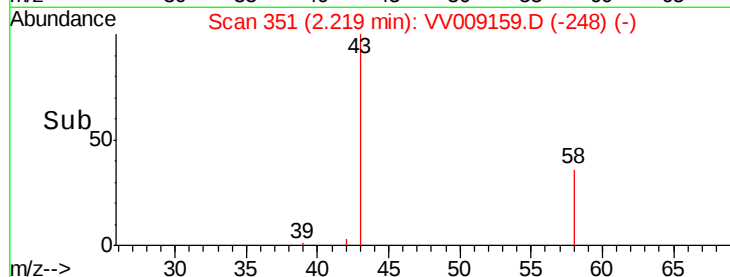
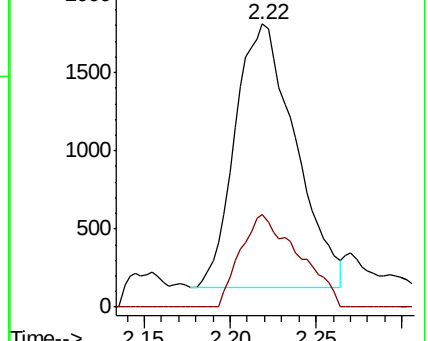
43 100

58 34.1 0.0 67.0



Abundance Ion 43.00 (42.70 to 43.70): VV009159.D (-248) (-)

Ion 58.00 (57.70 to 58.70): VV009159.D (-248) (-)



#16

Methylene chloride

Concen: 1.042 ug/L

RT: 2.54 min Scan# 450

Delta R.T. -0.00 min

Lab File: VV009159.D

Acq: 04 Jan 2019 13:03

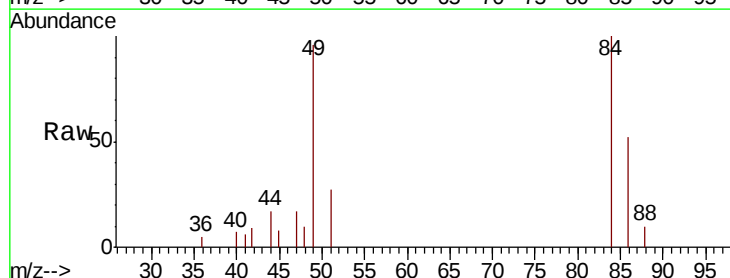
Tgt Ion: 84 Resp: 2992

Ion Ratio Lower Upper

84 100

49 96.1 77.6 144.2

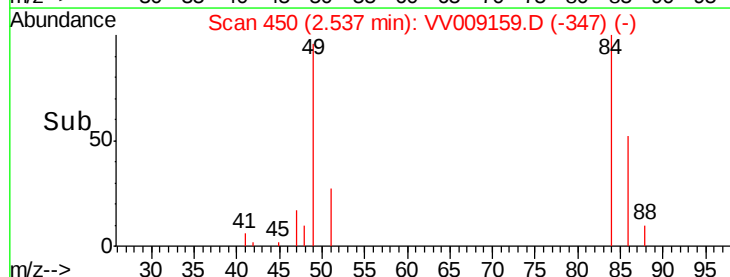
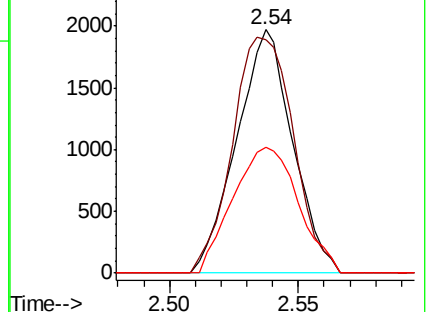
86 51.6 47.4 88.0

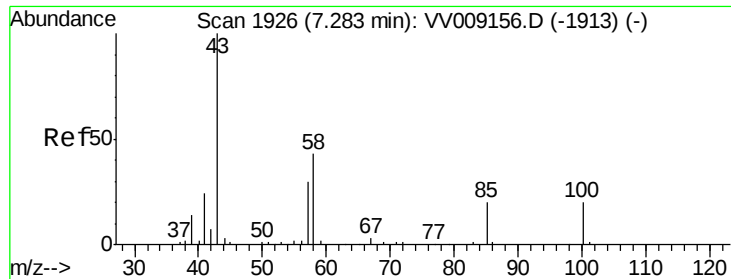


Abundance Ion 84.00 (83.70 to 84.70): VV009159.D (-347) (-)

Ion 49.00 (48.70 to 49.70): VV009159.D (-347) (-)

Ion 86.00 (85.70 to 86.70): VV009159.D (-347) (-)

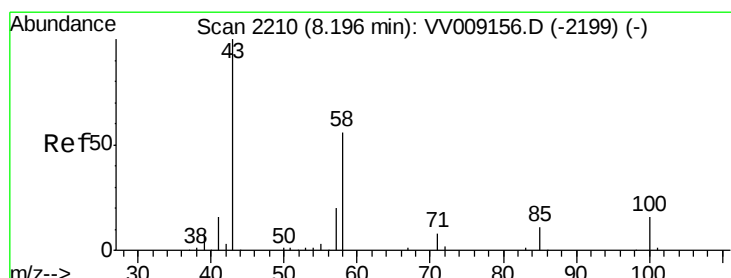
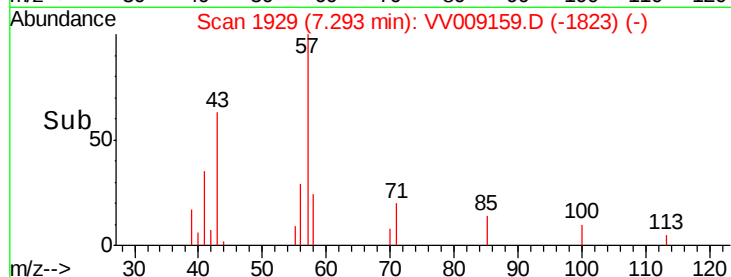
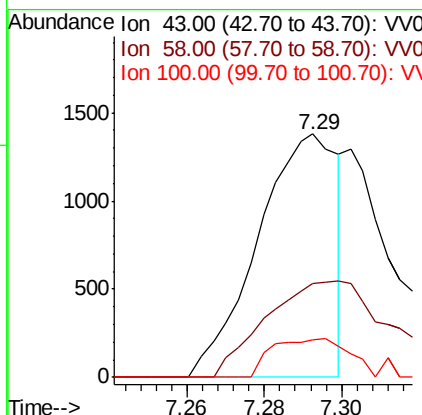
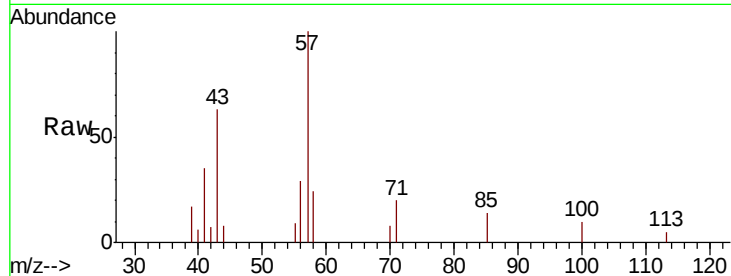




#43  
4-Methyl-2-pentanone  
Concen: 0.924 ug/L  
RT: 7.29 min Scan# 1929  
Delta R.T. 0.01 min  
Lab File: VV009159.D  
Acq: 04 Jan 2019 13:03

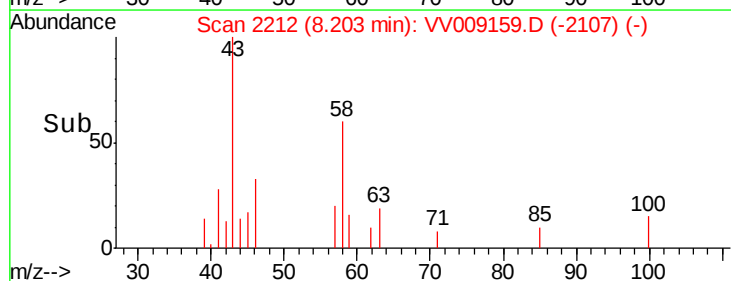
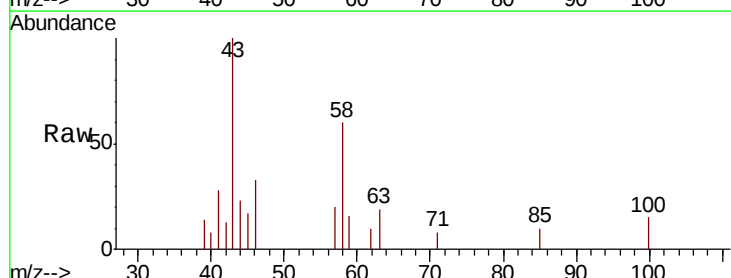
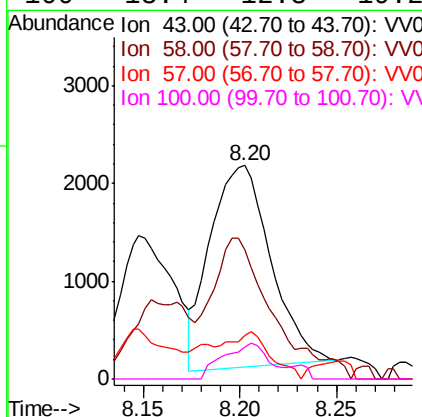
Instrument :  
MSVOA\_V  
ClientSampleId :  
IBLK

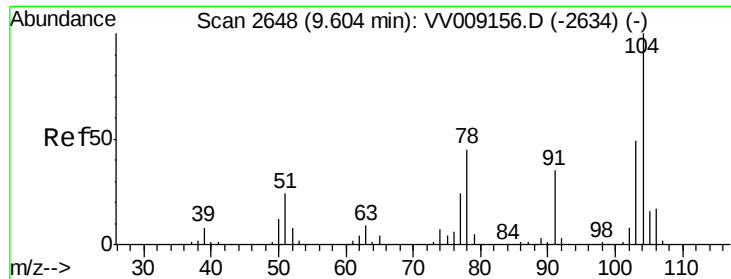
Tgt Ion: 43 Resp: 1977  
Ion Ratio Lower Upper  
43 100  
58 63.3 33.4 50.2#  
100 7.0 15.2 22.8#



#49  
2-Hexanone  
Concen: 2.872 ug/L  
RT: 8.20 min Scan# 2212  
Delta R.T. 0.01 min  
Lab File: VV009159.D  
Acq: 04 Jan 2019 13:03

Tgt Ion: 43 Resp: 4522  
Ion Ratio Lower Upper  
43 100  
58 61.8 46.7 70.1  
57 10.6 15.5 23.3#  
100 13.4 12.8 19.2

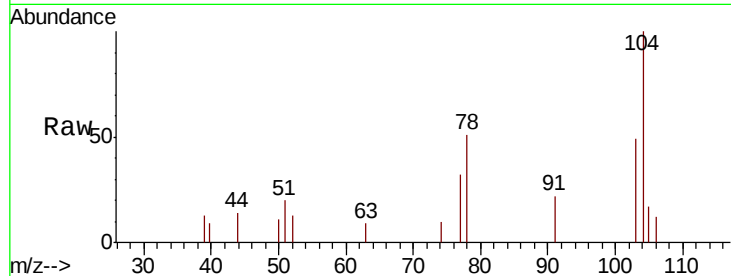




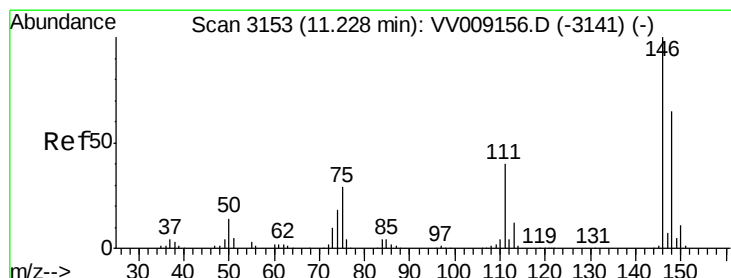
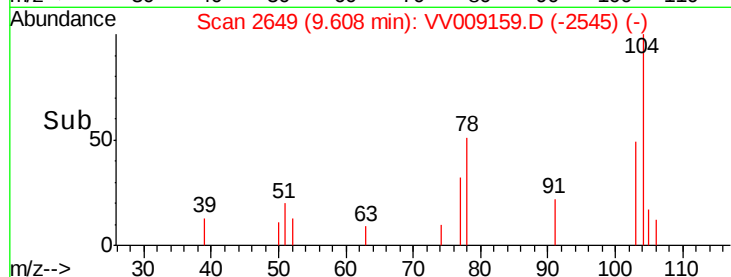
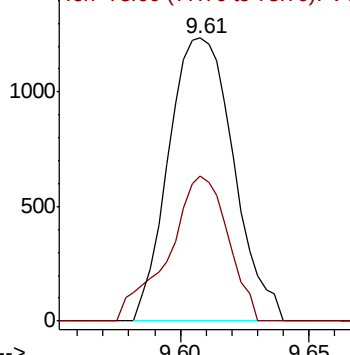
#56  
Styrene  
Concen: 0.315 ug/L  
RT: 9.61 min Scan# 2649  
Delta R.T. 0.00 min  
Lab File: VV009159.D  
Acq: 04 Jan 2019 13:03

Instrument :  
MSVOA\_V  
ClientSampled :  
IBLK

Tgt Ion:104 Resp: 2172  
Ion Ratio Lower Upper  
104 100  
78 51.1 31.6 58.8

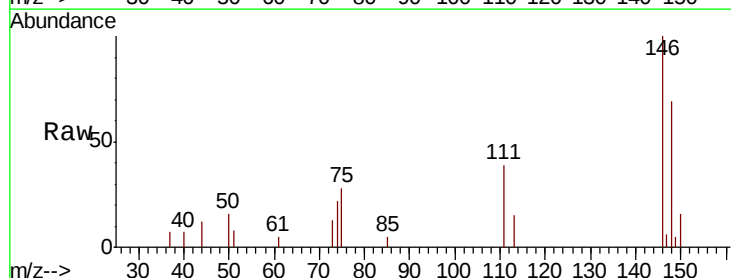


Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VV0

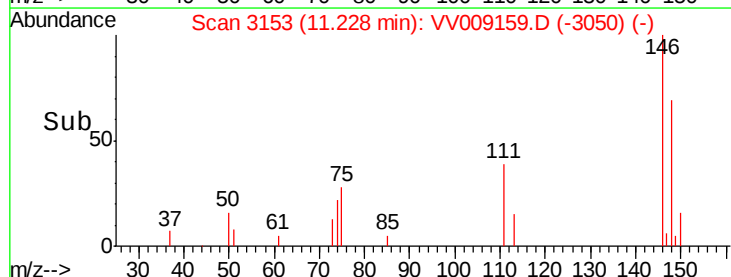
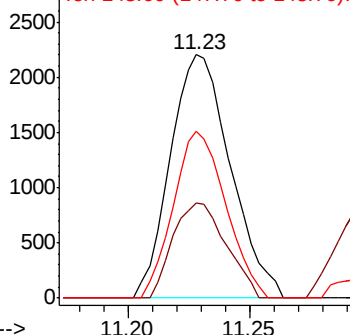


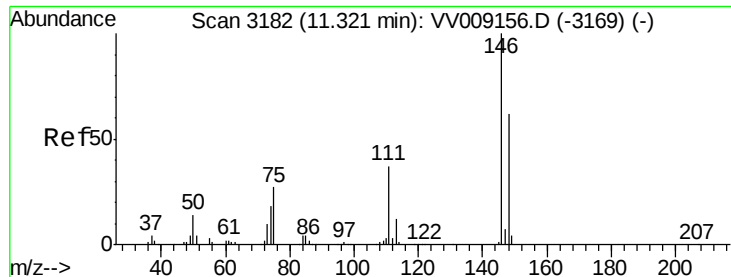
#63  
1,3-Dichlorobenzene  
Concen: 0.692 ug/L  
RT: 11.23 min Scan# 3153  
Delta R.T. -0.00 min  
Lab File: VV009159.D  
Acq: 04 Jan 2019 13:03

Tgt Ion:146 Resp: 3768  
Ion Ratio Lower Upper  
146 100  
111 38.9 28.0 52.0  
148 68.6 45.6 84.8



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: 0.798 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VV009159.D

Acq: 04 Jan 2019 13:03

Instrument :

MSVOA\_V

ClientSampleId :

IBLK

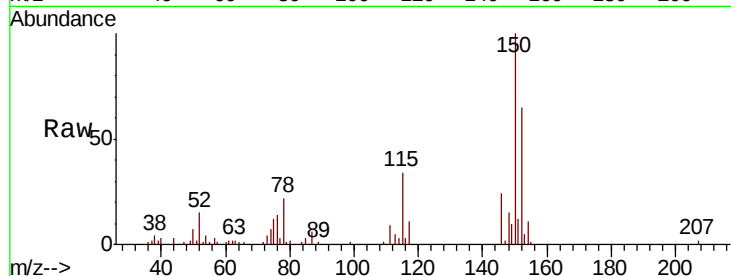
Tgt Ion:146 Resp: 4529

Ion Ratio Lower Upper

146 100

111 39.2 26.0 48.4

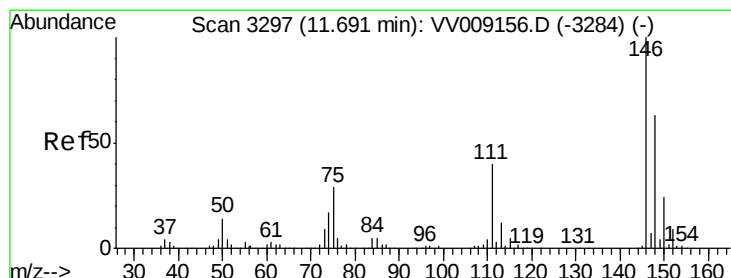
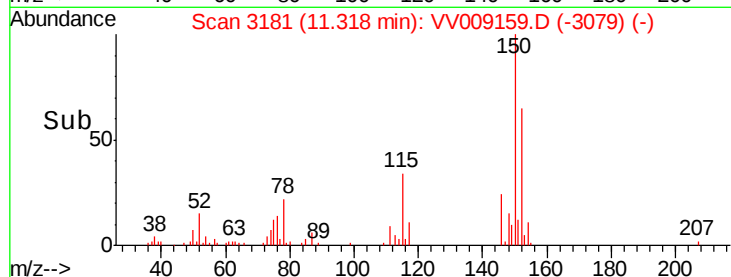
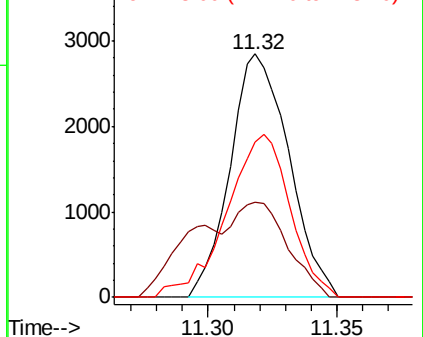
148 63.9 43.4 80.6



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: 0.723 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV009159.D

Acq: 04 Jan 2019 13:03

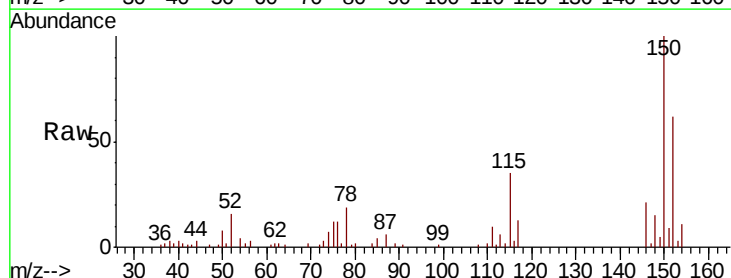
Tgt Ion:146 Resp: 3750

Ion Ratio Lower Upper

146 100

111 49.3 32.2 48.4#

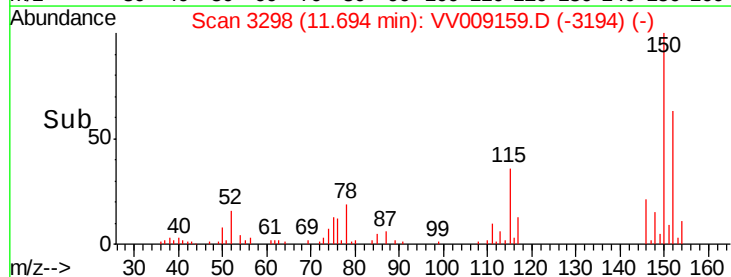
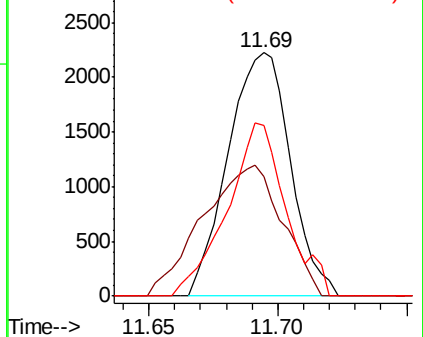
148 70.1 50.4 75.6

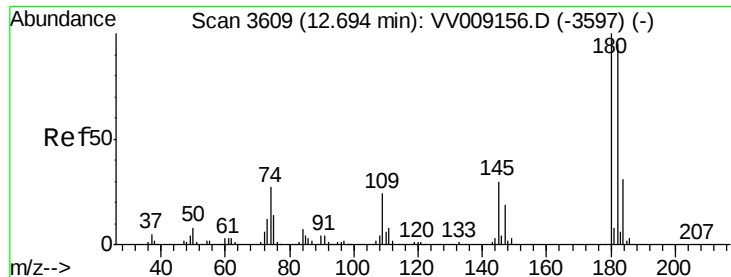


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

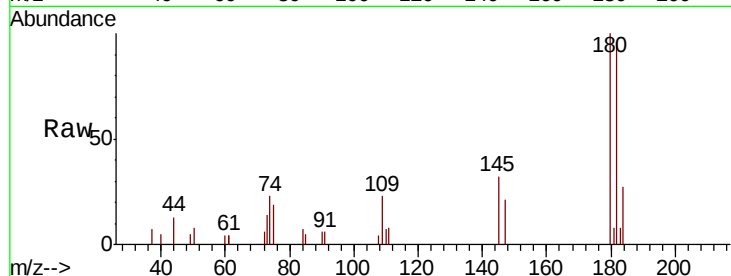




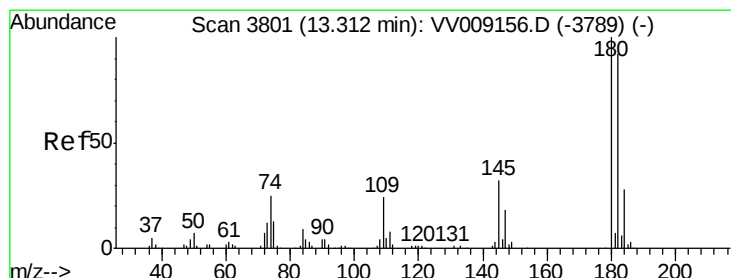
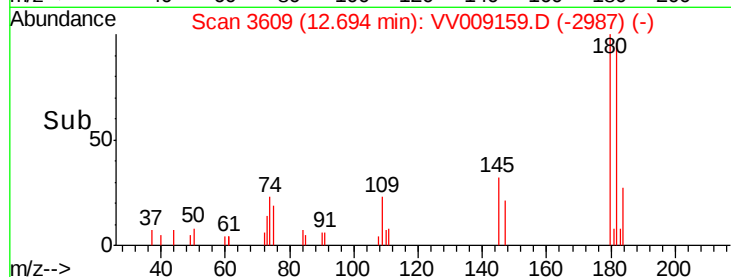
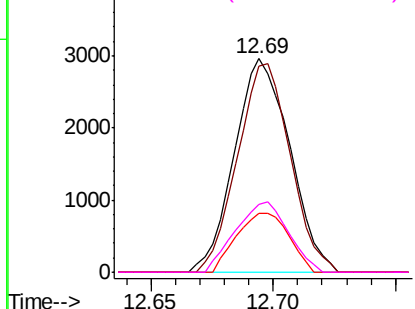
#67  
 1,3,5-Trichlorobenzene  
 Concen: 1.064 ug/L  
 RT: 12.69 min Scan# 3609  
 Delta R.T. -0.00 min  
 Lab File: VV009159.D  
 Acq: 04 Jan 2019 13:03

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 IBLK

Tgt Ion:180 Resp: 4674  
 Ion Ratio Lower Upper  
 180 100  
 182 92.8 75.3 112.9  
 184 25.9 24.6 37.0  
 145 31.3 23.9 35.9

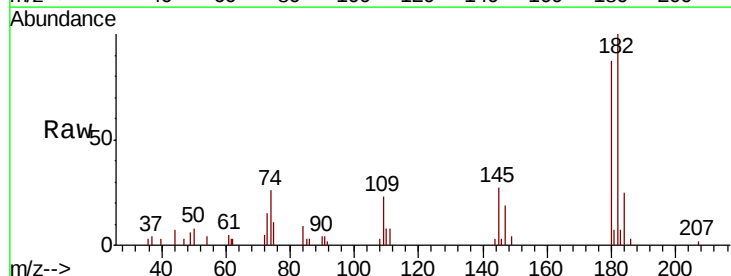


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

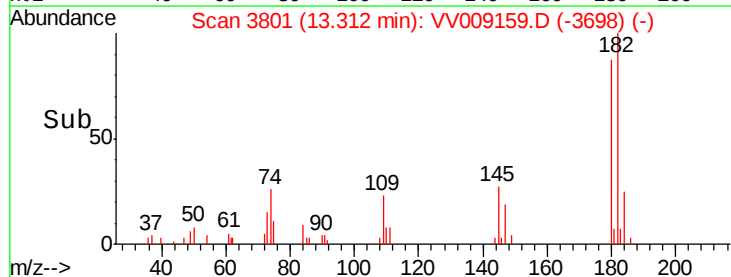
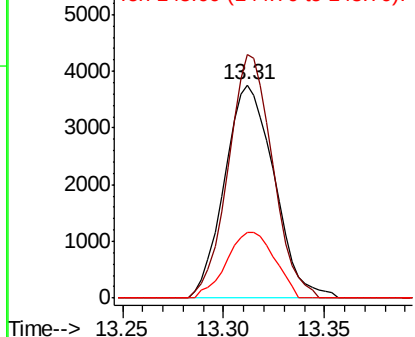


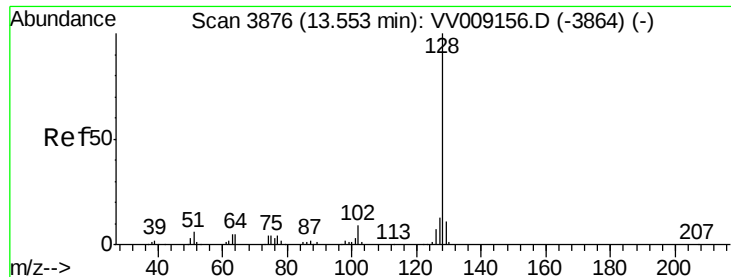
#68  
 1,2,4-trichlorobenzene  
 Concen: 1.811 ug/L  
 RT: 13.31 min Scan# 3801  
 Delta R.T. -0.00 min  
 Lab File: VV009159.D  
 Acq: 04 Jan 2019 13:03

Tgt Ion:180 Resp: 6472  
 Ion Ratio Lower Upper  
 180 100  
 182 102.1 76.2 114.4  
 145 29.8 25.4 38.0



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 3.305 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV009159.D

Acq: 04 Jan 2019 13:03

Instrument :

MSVOA\_V

ClientSampleId :

IBLK

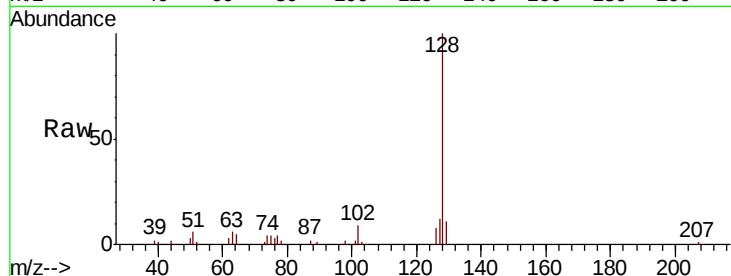
Tgt Ion:128 Resp: 24060

Ion Ratio Lower Upper

128 100

129 10.6 9.0 13.4

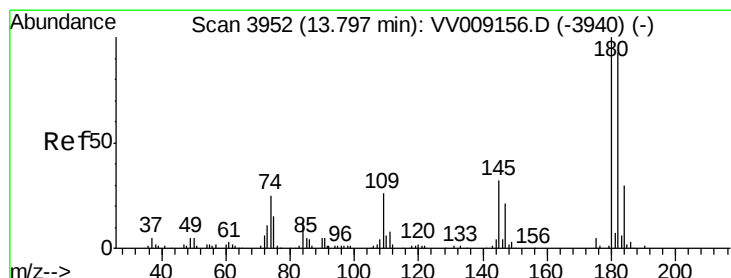
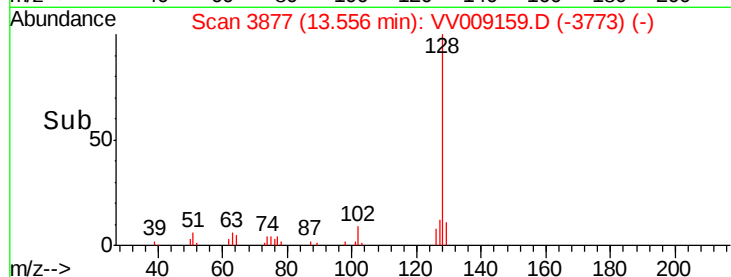
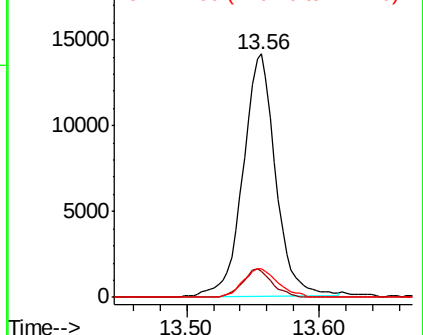
127 12.6 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 2.085 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. -0.00 min

Lab File: VV009159.D

Acq: 04 Jan 2019 13:03

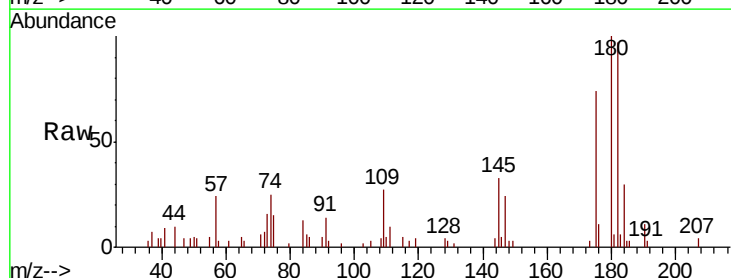
Tgt Ion:180 Resp: 6840

Ion Ratio Lower Upper

180 100

182 101.2 74.4 111.6

145 36.7 25.7 38.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

