

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW011321\  
 Data File : VW017851.D  
 Acq On : 13 Jan 2021 16:42  
 Operator : SY/VA  
 Sample : M1117-02  
 Misc : 6.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFN61

Quant Time: Jan 14 11:42:41 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jan 14 11:39:57 2021  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 124776   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 97175    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 30250    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 49895    | 25.84    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 103.36%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 41837    | 26.26    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 105.04%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 62613    | 18.61    | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 74.44%   |
| 20) 2-Butanone-d5              | 7.08   | 46    | 23014    | 73.55    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 147.10%# |
| 24) Chloroform-d               | 7.65   | 84    | 84727    | 25.98    | ug/L | 0.01     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 103.92%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 53352    | 31.61    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 126.44%  |
| 29) Benzene-d6                 | 8.27   | 84    | 161355   | 29.48    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 117.92%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 47522    | 31.50    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 126.00%# |
| 37) Toluene-d8                 | 10.32  | 98    | 129693   | 24.67    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 98.68%   |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 16930    | 25.17    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 100.68%  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 13131    | 69.30    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 138.60%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 35295    | 31.51    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 126.04%# |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 24058    | 22.84    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 91.36%   |

## Target Compounds

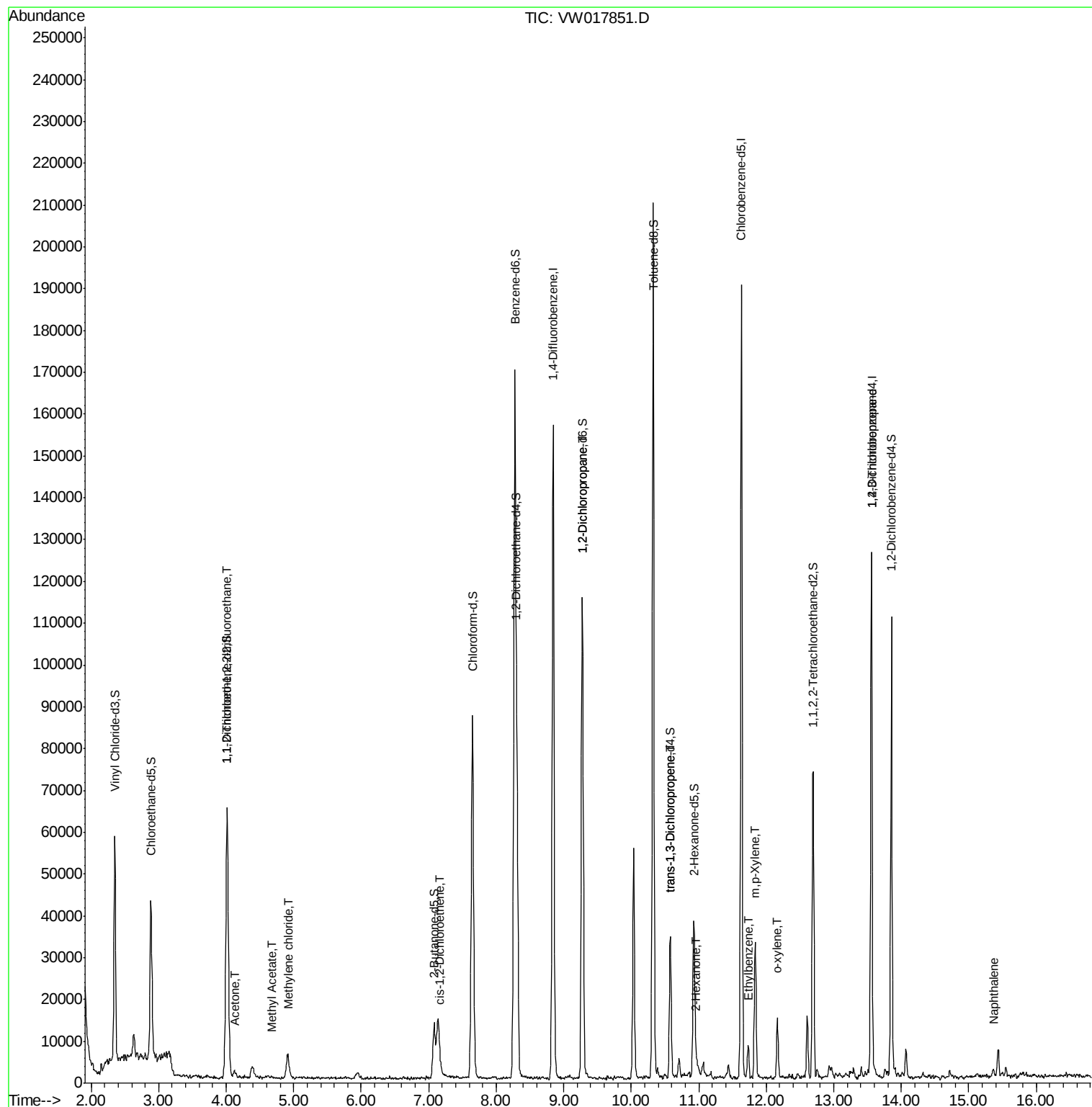
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.01  | 101  | 479      | 0.302 | ug/L # | 20     |
| 13) Acetone                    | 4.13  | 43   | 2092     | 7.742 | ug/L   | 72     |
| 15) Methyl Acetate             | 4.68  | 43   | 207      | 0.395 | ug/L # | 50     |
| 16) Methylene chloride         | 4.92  | 84   | 3480     | 1.950 | ug/L   | 89     |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96   | 317      | 0.182 | ug/L # | 84     |
| 40) 1,2-Dichloropropane        | 9.27  | 63   | 6424     | 4.898 | ug/L # | 88     |
| 45) trans-1,3-Dichloropropene  | 10.57 | 75   | 1068     | 0.599 | ug/L # | 76     |
| 49) 2-Hexanone                 | 10.97 | 43   | 794      | 1.756 | ug/L # | 92     |
| 53) Ethylbenzene               | 11.73 | 91   | 5607     | 0.780 | ug/L   | 98     |
| 54) m,p-Xylene                 | 11.83 | 106  | 8981     | 3.194 | ug/L   | 90     |
| 55) o-xylene                   | 12.16 | 106  | 3036     | 1.148 | ug/L   | 80     |
| 59) 1,2,3-Trichloropropane     | 13.55 | 75   | 4966     | 6.208 | ug/L   | 97     |
| 69) Naphthalene                | 15.37 | 128  | 1004     | 0.500 | ug/L # | 85     |

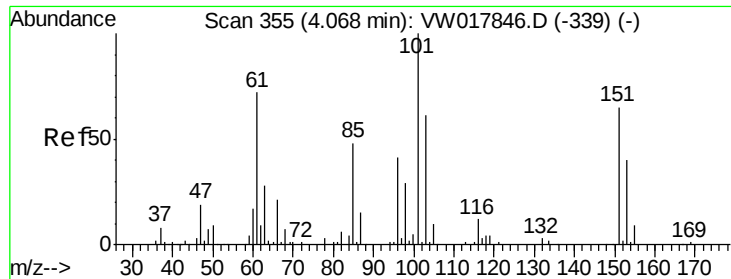
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M1117-02  
Misc : 6.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFN61

Quant Time: Jan 14 11:42:41 2021  
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Quant Title : VOC Analysis  
QLast Update : Thu Jan 14 11:39:57 2021  
Response via : Initial Calibration





#11

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

Concen: 0.302 ug/L

RT: 4.01 min Scan# 346

Delta R.T. -0.05 min

Lab File: VW017851.D

Acq: 13 Jan 2021 16:42

Instrument :

MSVOA\_W

ClientSampled :

BFN61

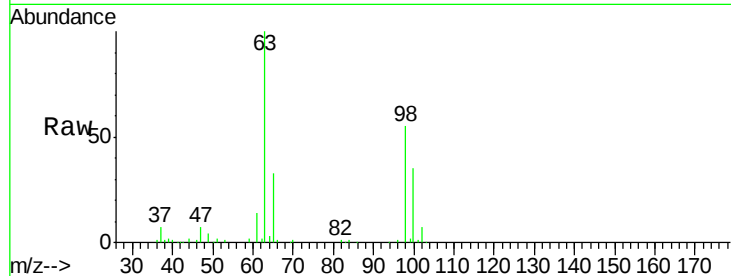
Tgt Ion: 101 Resp: 479

Ion Ratio Lower Upper

101 100

85 0.0 36.7 55.1#

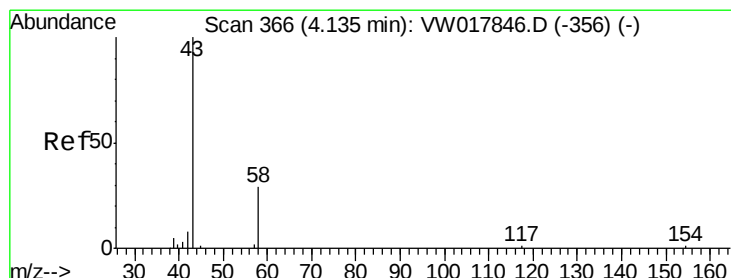
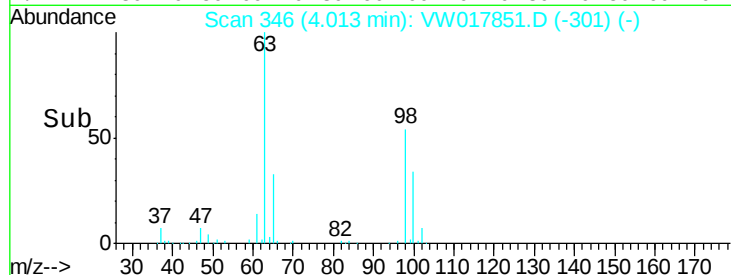
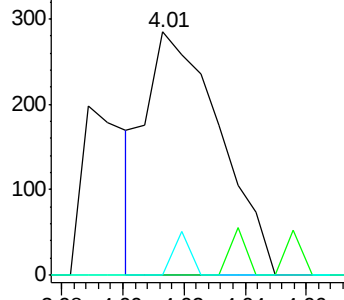
151 0.0 57.7 86.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 7.742 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW017851.D

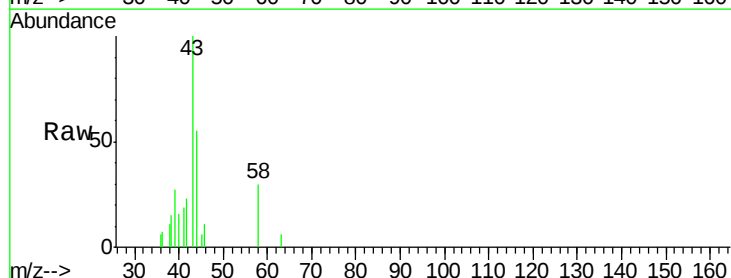
Acq: 13 Jan 2021 16:42

Tgt Ion: 43 Resp: 2092

Ion Ratio Lower Upper

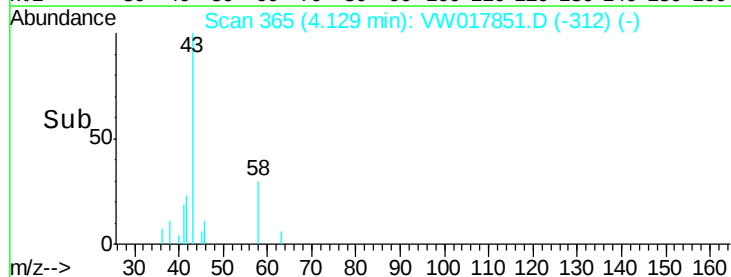
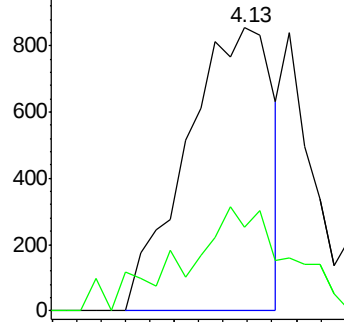
43 100

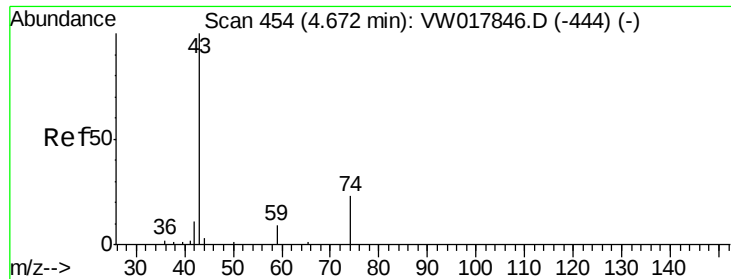
58 15.1 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

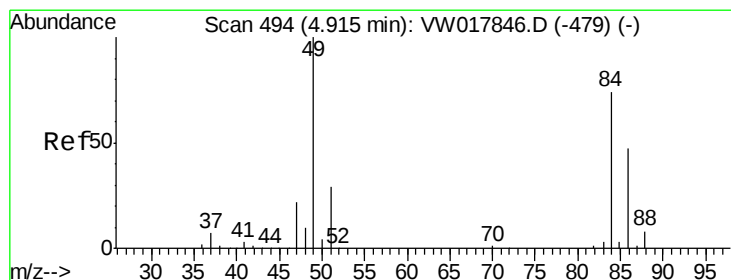
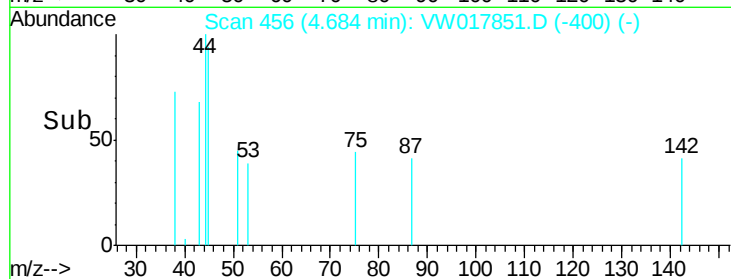
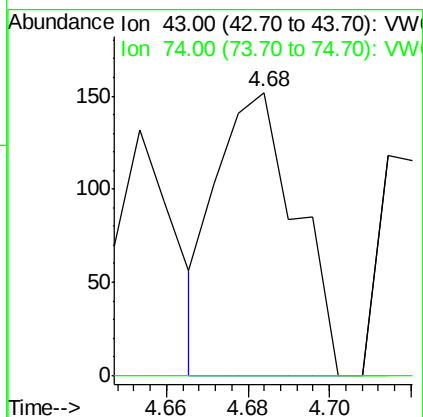
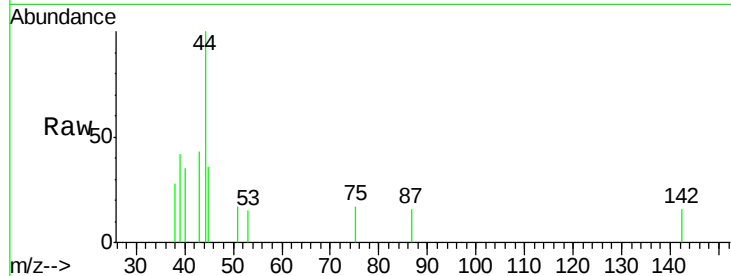




#15  
Methyl Acetate  
Concen: 0.395 ug/L  
RT: 4.68 min Scan# 456  
Delta R.T. 0.01 min  
Lab File: VW017851.D  
Acq: 13 Jan 2021 16:42

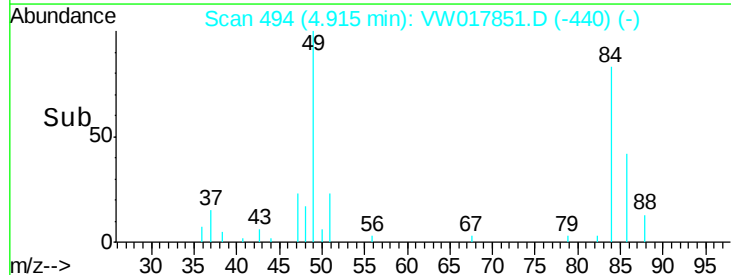
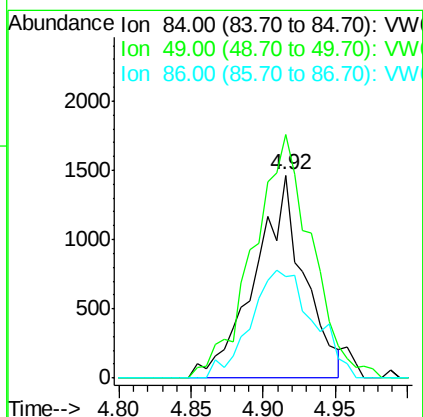
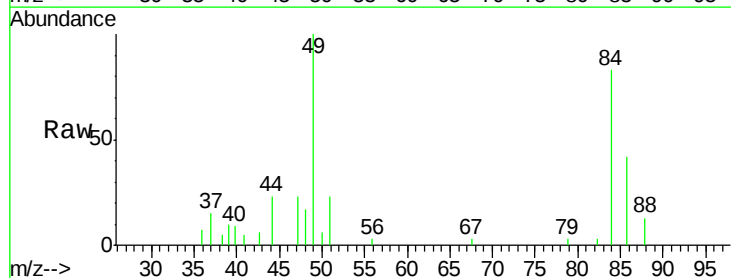
Instrument :  
MSVOA\_W  
ClientSampled :  
BFN61

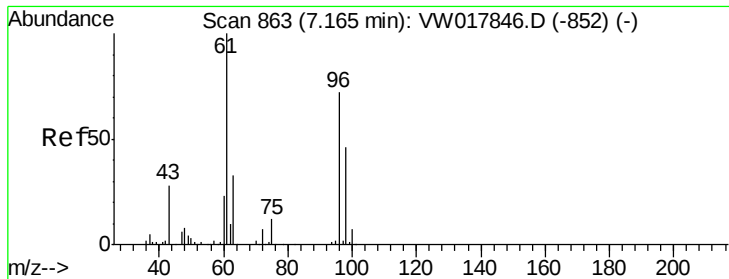
Tgt Ion: 43 Resp: 207  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.2 30.4#



#16  
Methylene chloride  
Concen: 1.950 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW017851.D  
Acq: 13 Jan 2021 16:42

Tgt Ion: 84 Resp: 3480  
Ion Ratio Lower Upper  
84 100  
49 120.2 90.5 168.1  
86 50.3 44.8 83.2



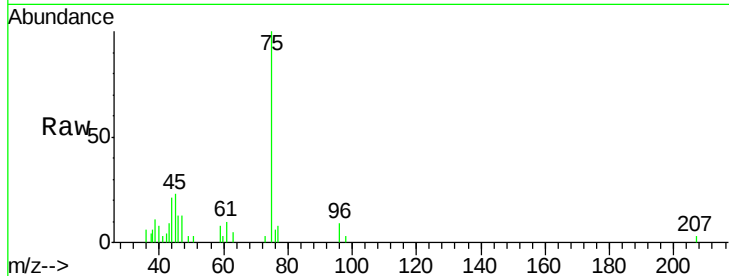


#22

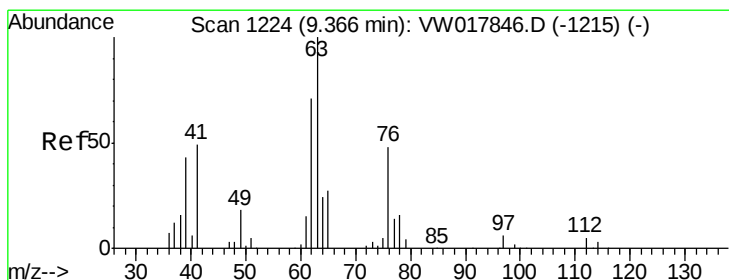
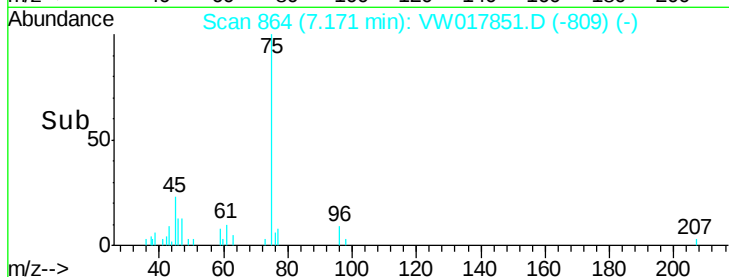
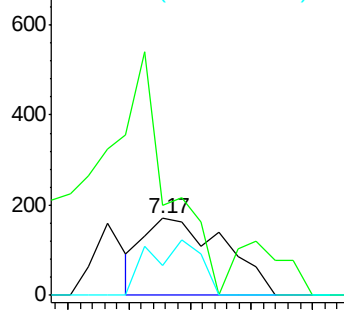
cis-1,2-Dichloroethene  
Concen: 0.182 ug/L  
RT: 7.17 min Scan# 864  
Delta R.T. 0.01 min  
Lab File: VW017851.D  
Acq: 13 Jan 2021 16:42

Instrument :  
MSVOA\_W  
ClientSampled :  
BFN61

Tgt Ion: 96 Resp: 317  
Ion Ratio Lower Upper  
96 100  
61 116.4 88.2 163.8  
98 38.0 43.7 81.1#



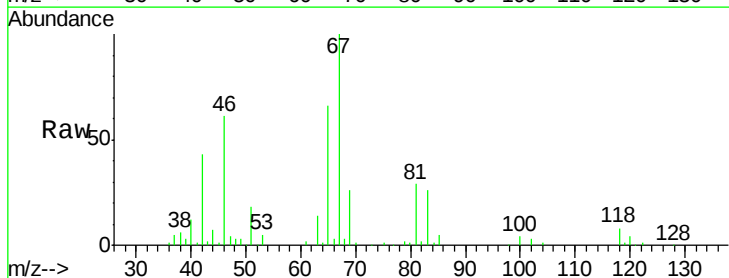
Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 98.00 (97.70 to 98.70): VW



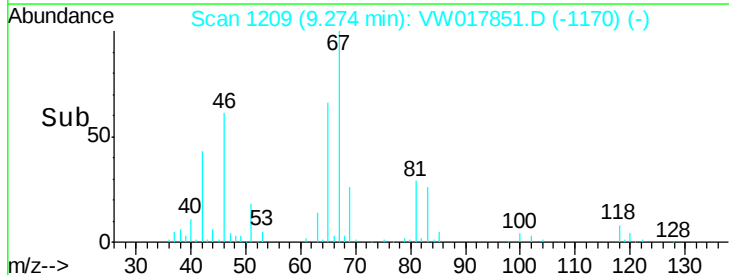
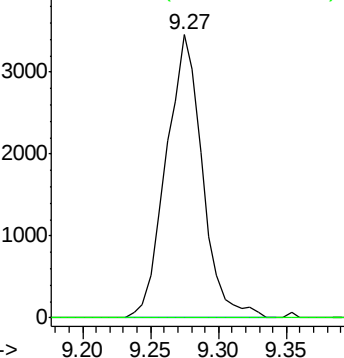
#40

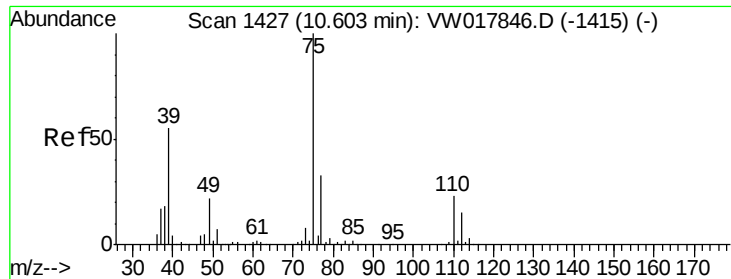
1,2-Dichloropropane  
Concen: 4.898 ug/L  
RT: 9.27 min Scan# 1209  
Delta R.T. -0.09 min  
Lab File: VW017851.D  
Acq: 13 Jan 2021 16:42

Tgt Ion: 63 Resp: 6424  
Ion Ratio Lower Upper  
63 100  
112 0.7 3.6 5.4#



Abundance Ion 63.00 (62.70 to 63.70): VW  
Ion 112.00 (111.70 to 112.70): V





#45

trans-1,3-Dichloropropene

Concen: 0.599 ug/L

RT: 10.57 min Scan# 1422

Delta R.T. -0.03 min

Lab File: VW017851.D

Acq: 13 Jan 2021 16:42

Instrument :

MSVOA\_W

ClientSampleId :

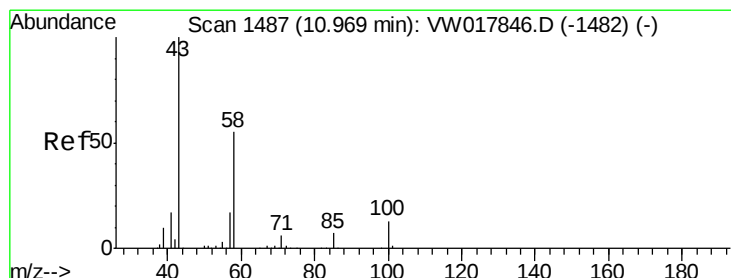
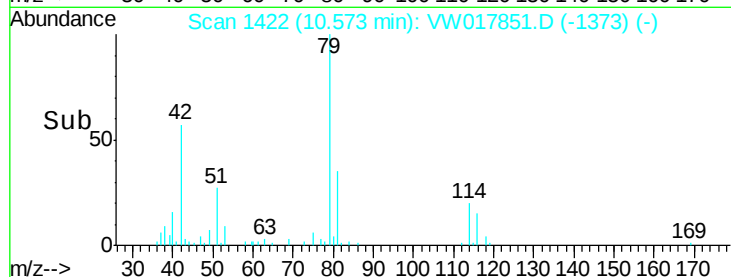
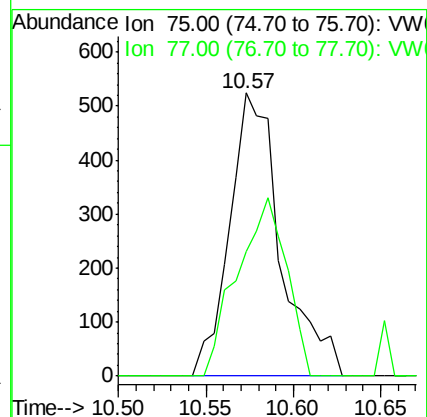
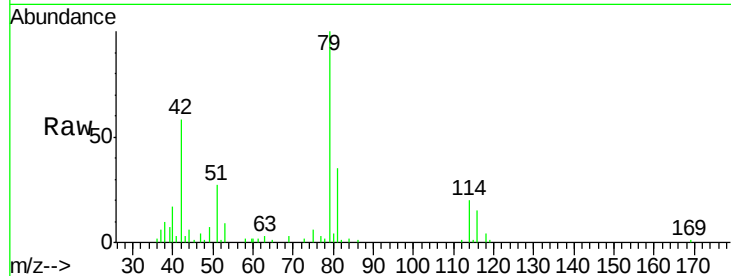
BFN61

Tgt Ion: 75 Resp: 1068

Ion Ratio Lower Upper

75 100

77 44.1 21.6 40.0#



#49

2-Hexanone

Concen: 1.756 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW017851.D

Acq: 13 Jan 2021 16:42

Tgt Ion: 43 Resp: 794

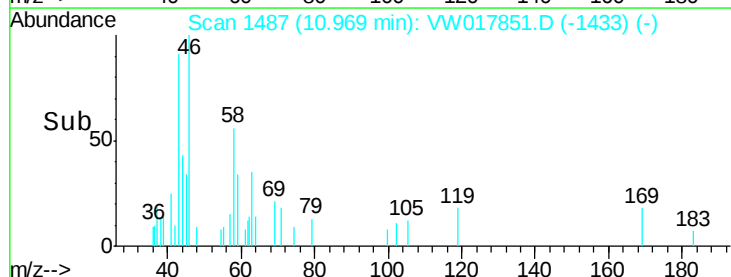
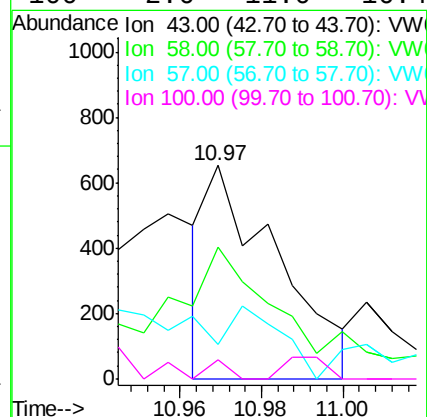
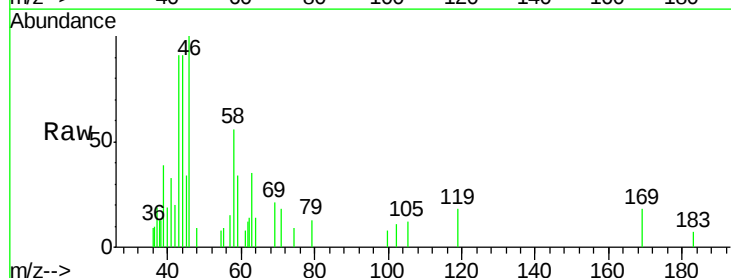
Ion Ratio Lower Upper

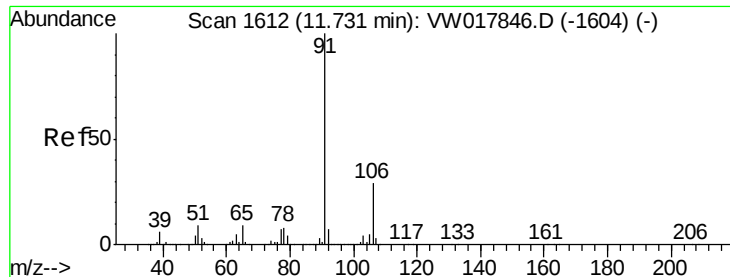
43 100

58 57.8 44.2 66.4

57 23.6 16.1 24.1

100 2.6 11.0 16.4#

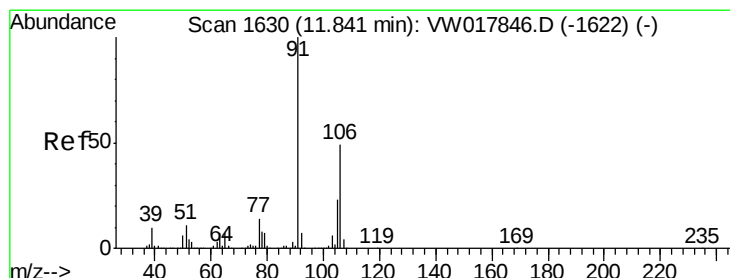
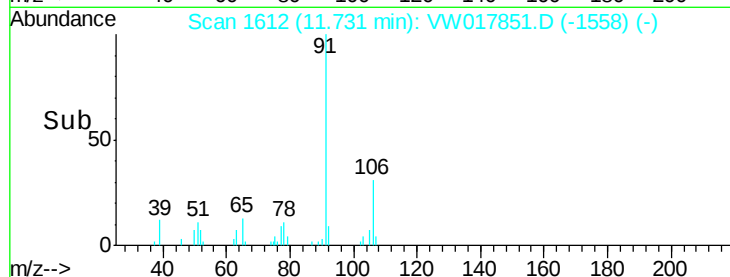
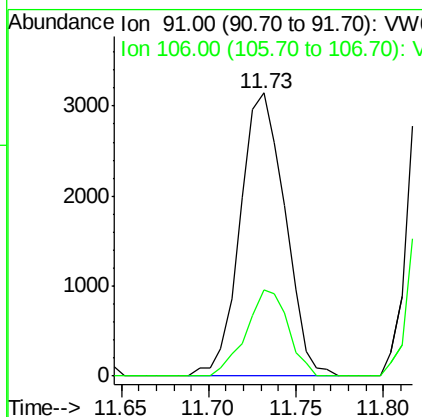
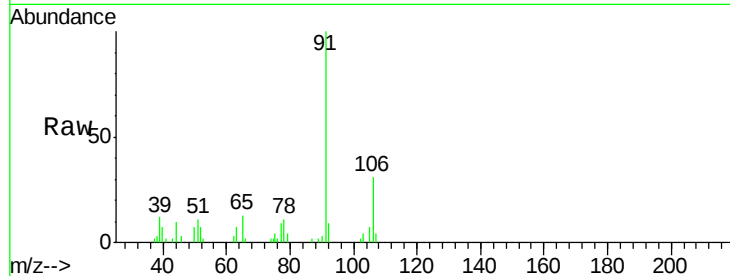




#53  
Ethylbenzene  
Concen: 0.780 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW017851.D  
Acq: 13 Jan 2021 16:42

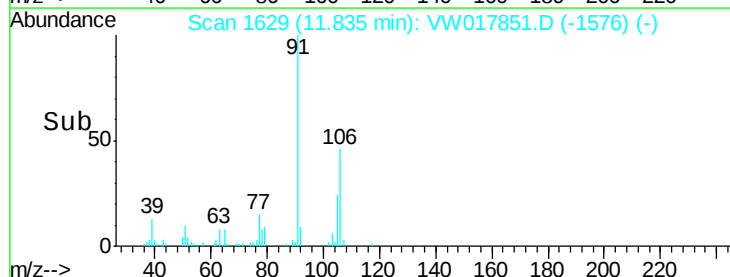
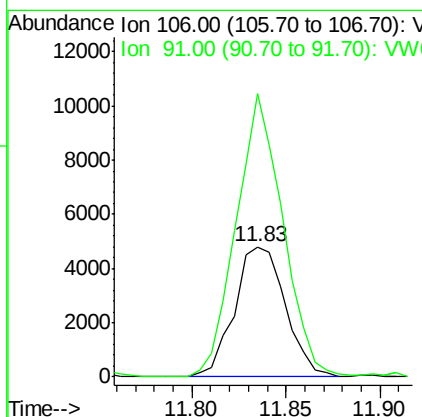
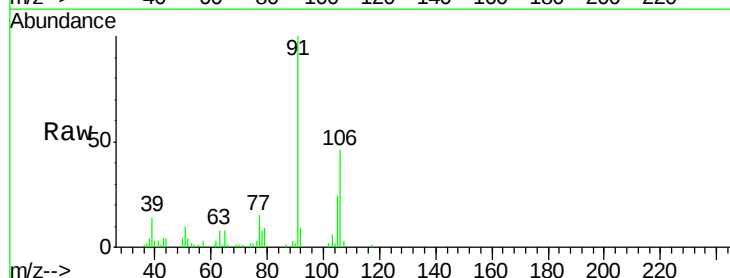
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MSVOA\_W  
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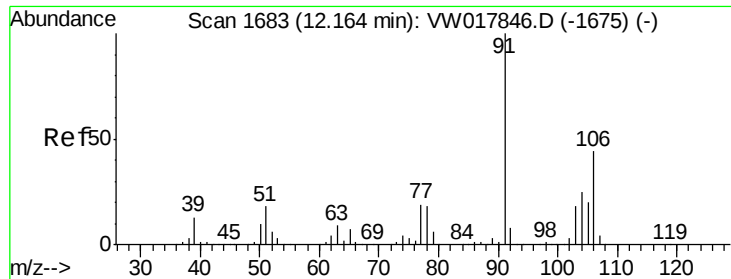
Tgt Ion: 91 Resp: 5607  
Ion Ratio Lower Upper  
91 100  
106 30.5 22.0 41.0



#54  
m,p-Xylene  
Concen: 3.194 ug/L  
RT: 11.83 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW017851.D  
Acq: 13 Jan 2021 16:42

Tgt Ion: 106 Resp: 8981  
Ion Ratio Lower Upper  
106 100  
91 217.6 141.6 263.0

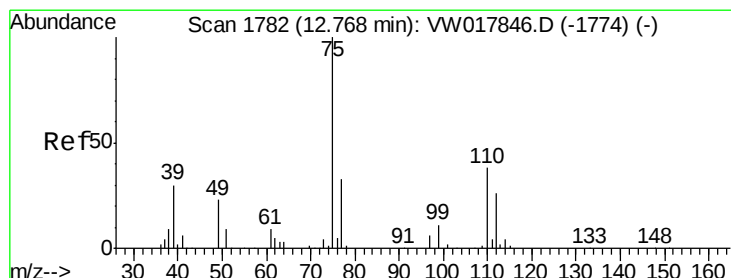
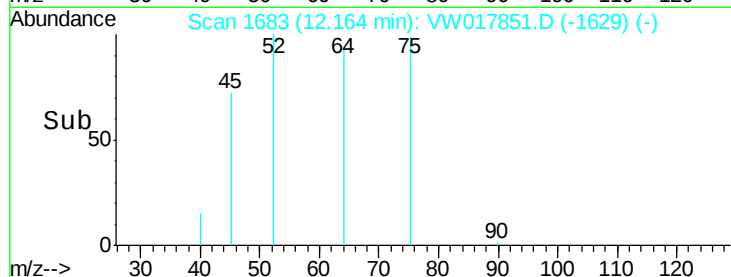
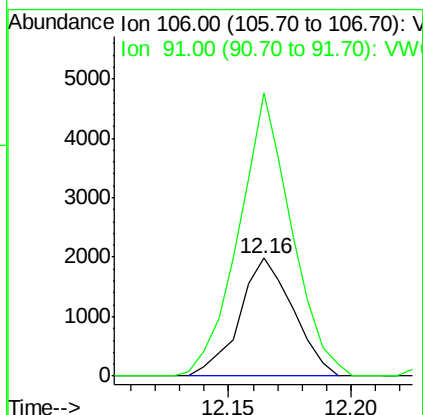
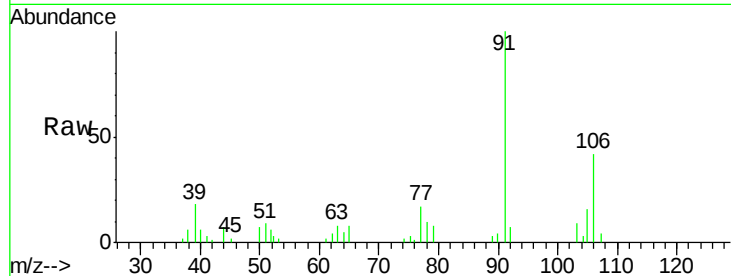




#55  
o-xylene  
Concen: 1.148 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW017851.D  
Acq: 13 Jan 2021 16:42

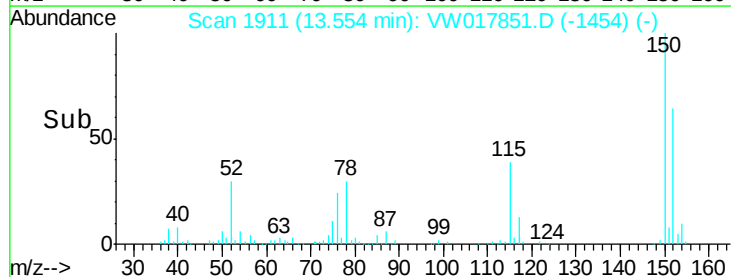
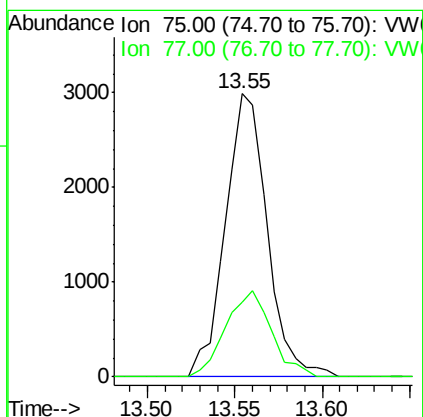
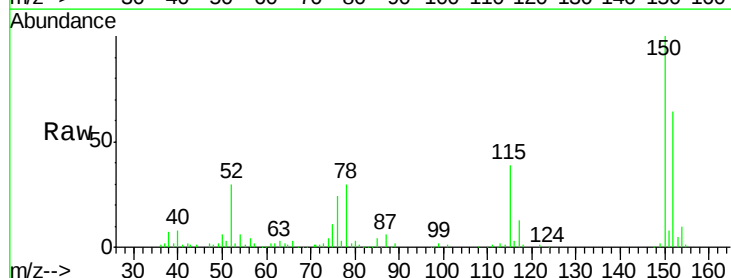
Instrument :  
MSVOA\_W  
ClientSampled :  
BFN61

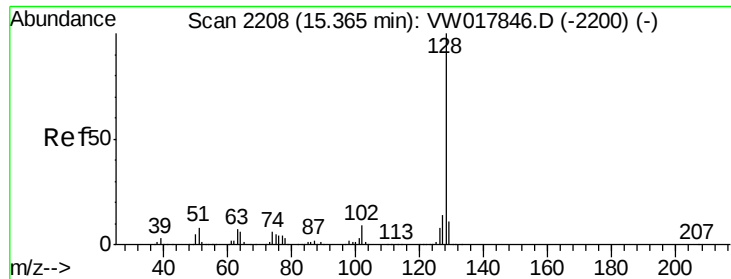
Tgt Ion:106 Resp: 3036  
Ion Ratio Lower Upper  
106 100  
91 239.7 145.7 270.7



#59  
1,2,3-Trichloropropane  
Concen: 6.208 ug/L  
RT: 13.55 min Scan# 1911  
Delta R.T. 0.79 min  
Lab File: VW017851.D  
Acq: 13 Jan 2021 16:42

Tgt Ion: 75 Resp: 4966  
Ion Ratio Lower Upper  
75 100  
77 33.3 25.4 38.0





#69

Naphthalene

Concen: 0.500 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW017851.D

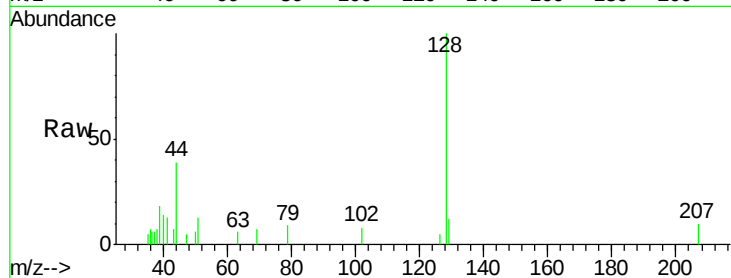
Acq: 13 Jan 2021 16:42

Instrument :

MSVOA\_W

ClientSampleId :

BFN61



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1004  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 0.0   | 8.8   | 13.2# |
| 127      | 11.7  | 10.6  | 15.8  |

