

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW011321\  
 Data File : VW017864.D  
 Acq On : 13 Jan 2021 21:47  
 Operator : SY/VA  
 Sample : M1099-05  
 Misc : 4.70G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 F1C05

Quant Time: Jan 14 11:44:19 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  | 313533   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 247482   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 85838    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 128575   | 26.50    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 106.00%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 106551   | 26.61    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 106.44%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 160233   | 18.96    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 75.84%   |
| 20) 2-Butanone-d5              | 7.08   | 46    | 61539    | 78.27    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 156.54%# |
| 24) Chloroform-d               | 7.65   | 84    | 215509   | 26.30    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 105.20%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 134039   | 31.61    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 126.44%  |
| 29) Benzene-d6                 | 8.27   | 84    | 417640   | 29.96    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 119.84%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 127966   | 33.30    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 133.20%# |
| 37) Toluene-d8                 | 10.32  | 98    | 339295   | 25.34    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 101.36%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 38221    | 22.31    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 89.24%   |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 40082    | 83.06    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 166.12%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 95746    | 33.56    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 134.24%# |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 77601    | 25.96    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 103.84%  |

## Target Compounds

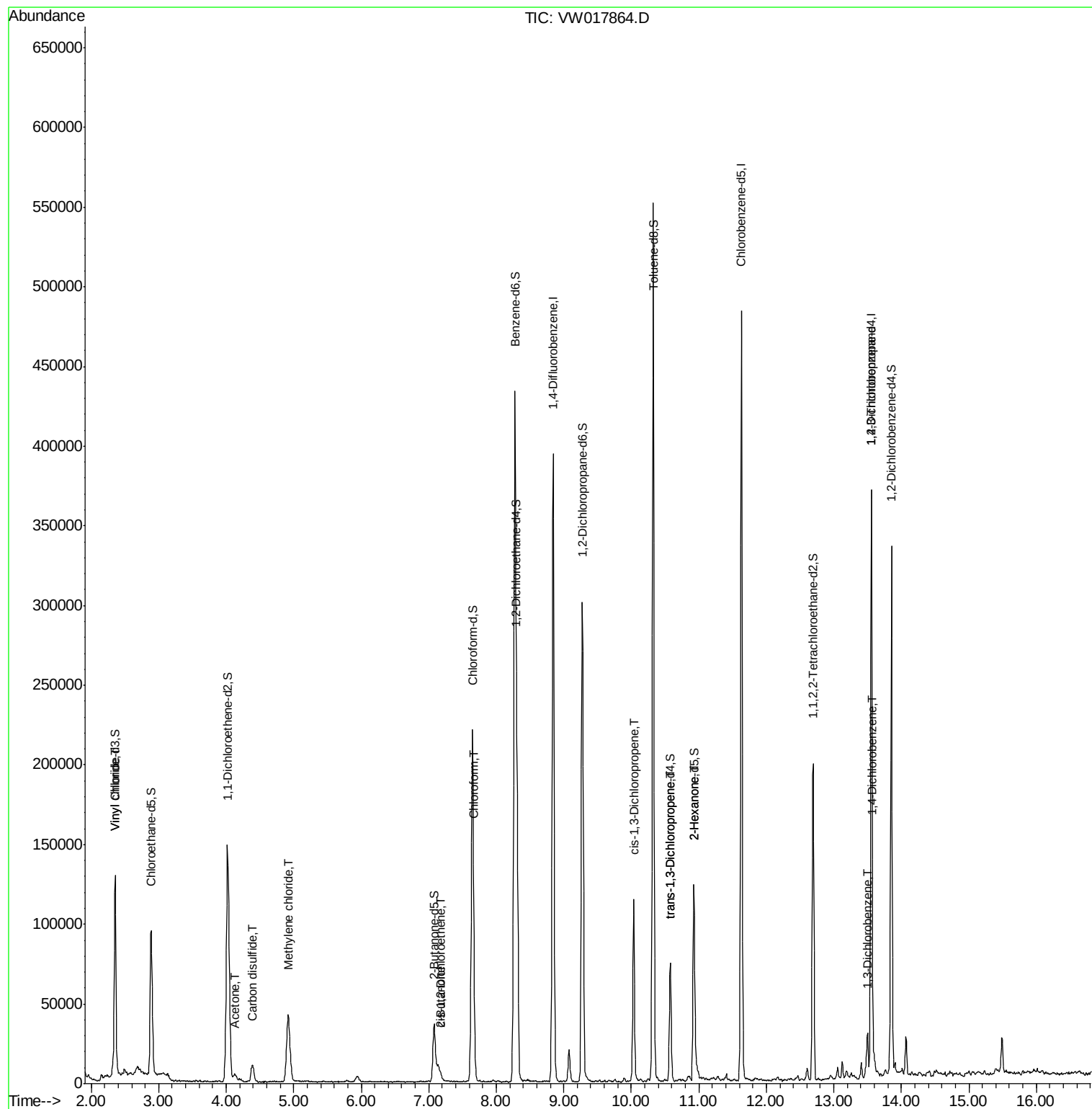
| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 5) Vinyl chloride             | 2.36  | 62   | 1291     | 0.248  | ug/L # | 1      |
| 13) Acetone                   | 4.13  | 43   | 8548     | 12.590 | ug/L   | 96     |
| 14) Carbon disulfide          | 4.39  | 76   | 23422    | 2.030  | ug/L   | 99     |
| 16) Methylene chloride        | 4.92  | 84   | 33792    | 7.537  | ug/L   | 98     |
| 21) 2-Butanone                | 7.18  | 43   | 2200     | 2.409  | ug/L   | 89     |
| 22) cis-1,2-Dichloroethene    | 7.18  | 96   | 745      | 0.170  | ug/L   | 87     |
| 25) Chloroform                | 7.67  | 83   | 6630     | 0.885  | ug/L # | 17     |
| 42) cis-1,3-Dichloropropene   | 10.04 | 75   | 3648     | 0.684  | ug/L   | 89     |
| 45) trans-1,3-Dichloropropene | 10.58 | 75   | 2400     | 0.529  | ug/L   | 99     |
| 49) 2-Hexanone                | 10.93 | 43   | 5464     | 4.745  | ug/L # | 69     |
| 59) 1,2,3-Trichloropropane    | 13.55 | 75   | 15332    | 7.526  | ug/L   | 98     |
| 63) 1,3-Dichlorobenzene       | 13.50 | 146  | 9245     | 1.745  | ug/L   | 93     |
| 64) 1,4-Dichlorobenzene       | 13.58 | 146  | 5898     | 1.108  | ug/L   | 97     |

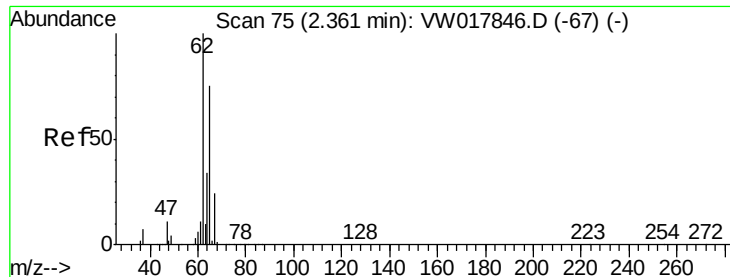
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW011321\  
Data File : VW017864.D  
Acq On : 13 Jan 2021 21:47  
Operator : SY/VA  
Sample : M1099-05  
Misc : 4.70G/10ML/MSVOA\_W/SOIL  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
F1C05

Quant Time: Jan 14 11:44:19 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Jan 14 11:39:57 2021  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.248 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW017864.D

Acq: 13 Jan 2021 21:47

Instrument :

MSVOA\_W

ClientSampled :

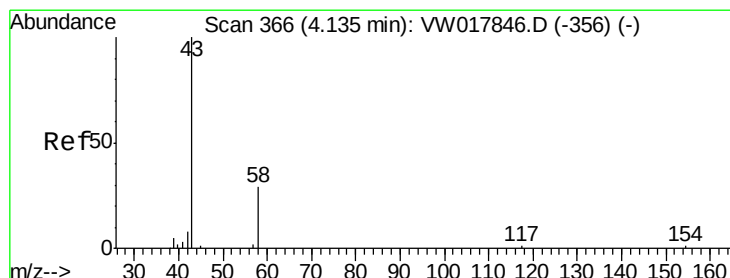
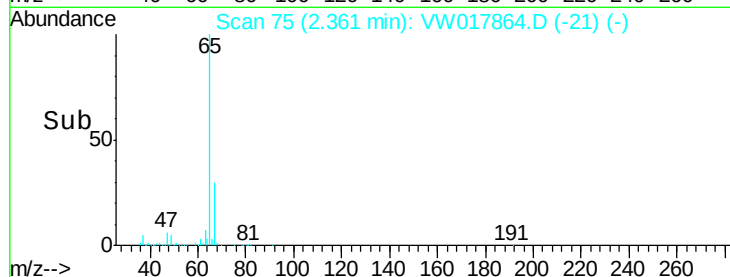
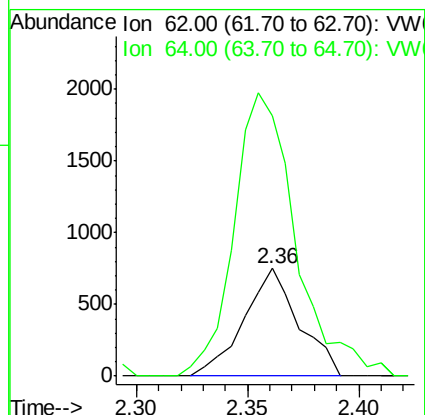
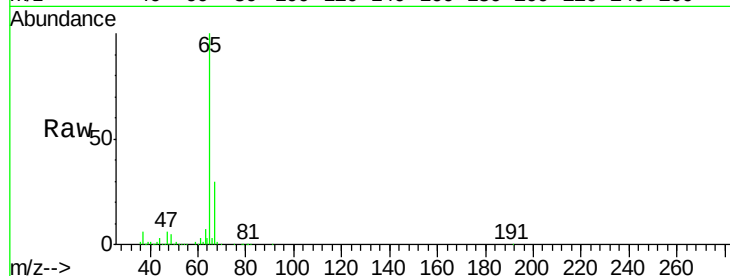
F1C05

Tgt Ion: 62 Resp: 1291

Ion Ratio Lower Upper

62 100

64 241.1 23.3 43.3#



#13

Acetone

Concen: 12.590 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW017864.D

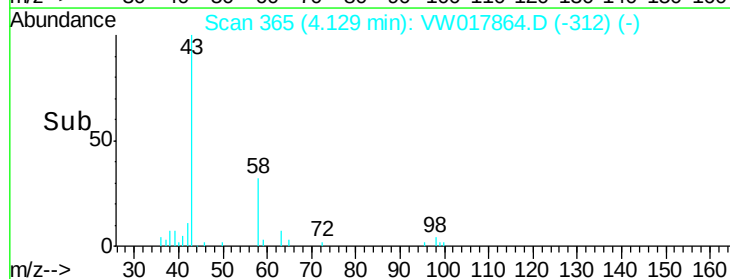
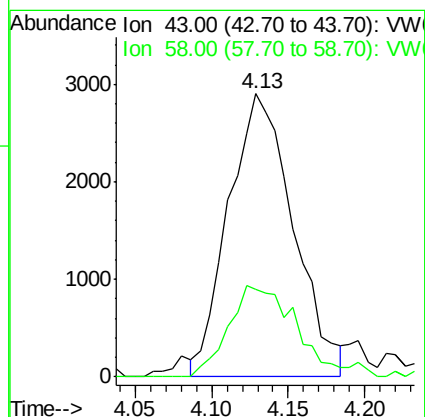
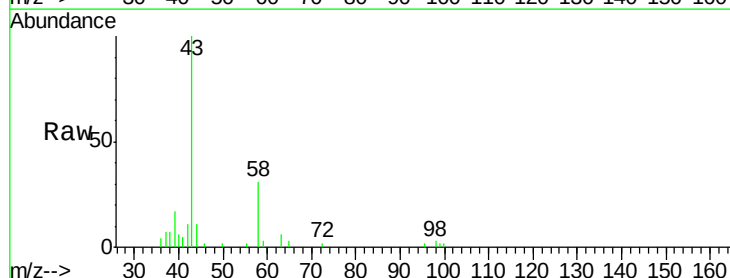
Acq: 13 Jan 2021 21:47

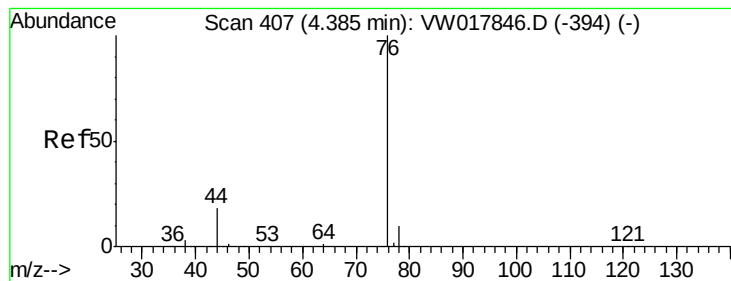
Tgt Ion: 43 Resp: 8548

Ion Ratio Lower Upper

43 100

58 32.7 0.0 60.8





#14

Carbon disulfide

Concen: 2.030 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW017864.D

Acq: 13 Jan 2021 21:47

Instrument :

MSVOA\_W

ClientSampled :

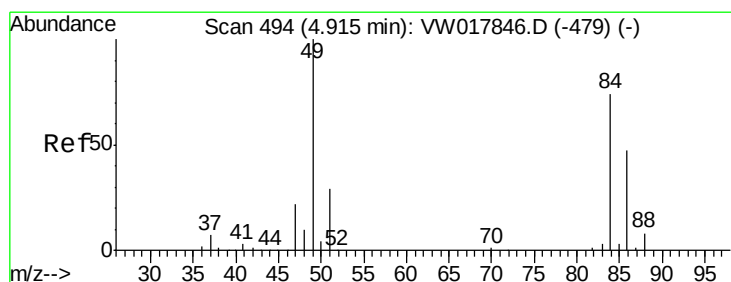
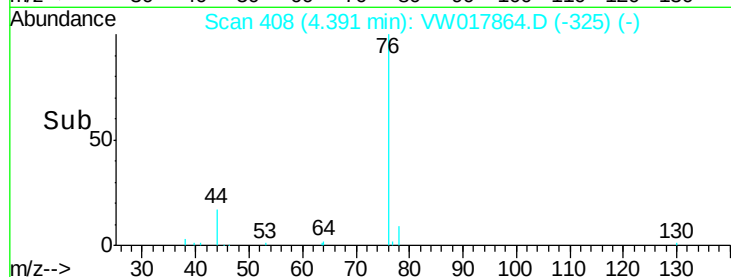
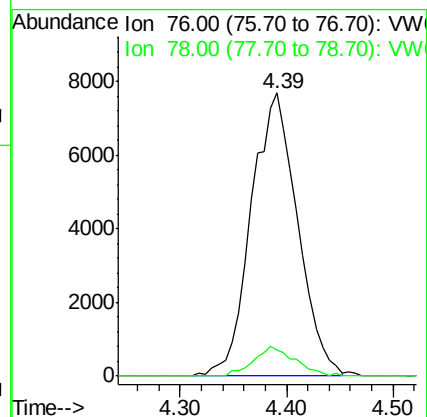
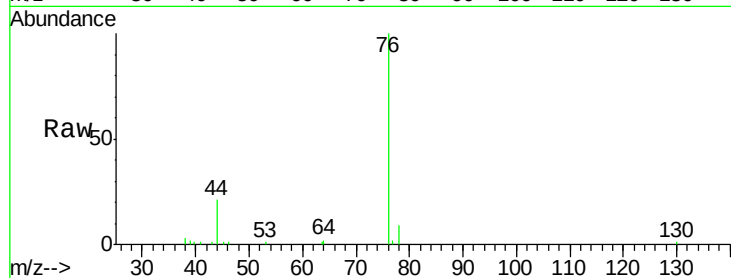
F1C05

Tgt Ion: 76 Resp: 23422

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7



#16

Methylene chloride

Concen: 7.537 ug/L

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW017864.D

Acq: 13 Jan 2021 21:47

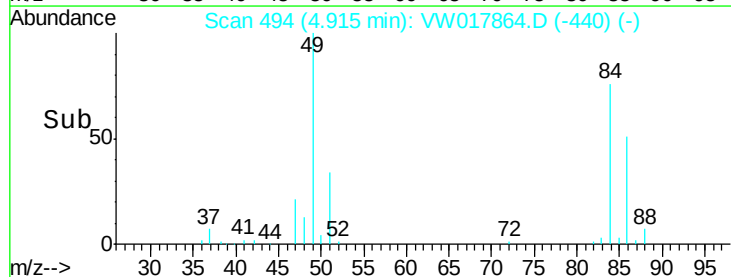
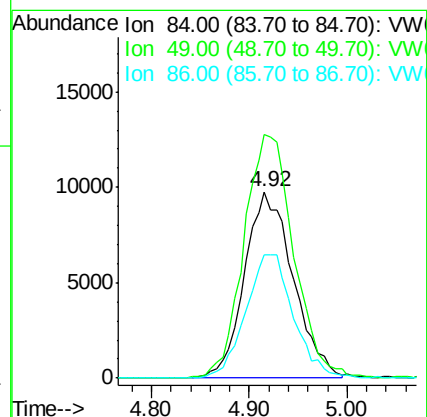
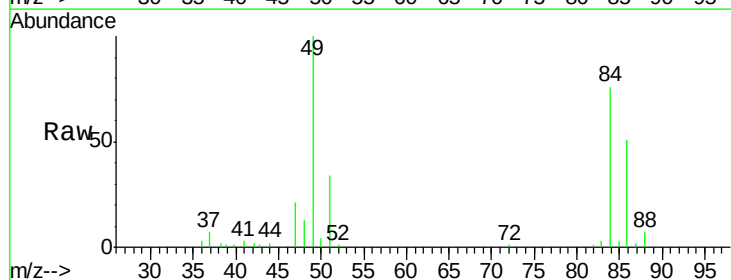
Tgt Ion: 84 Resp: 33792

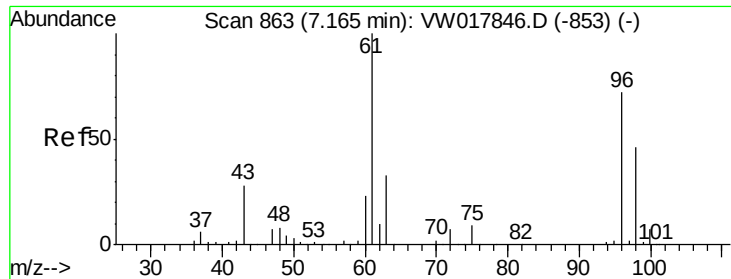
Ion Ratio Lower Upper

84 100

49 130.8 90.5 168.1

86 66.3 44.8 83.2





#21

2-Butanone

Concen: 2.409 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW017864.D

Acq: 13 Jan 2021 21:47

Instrument :

MSVOA\_W

ClientSampled :

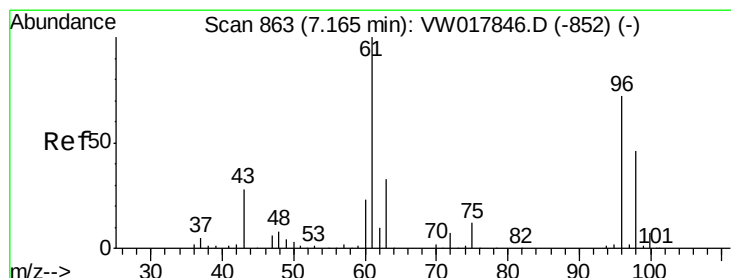
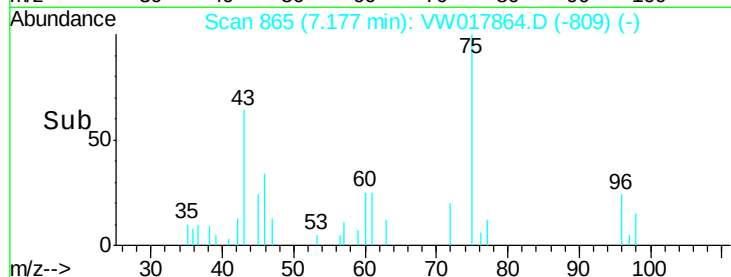
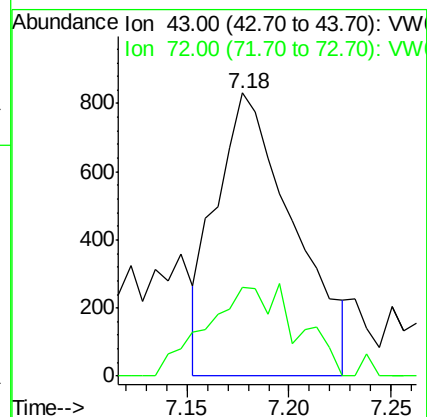
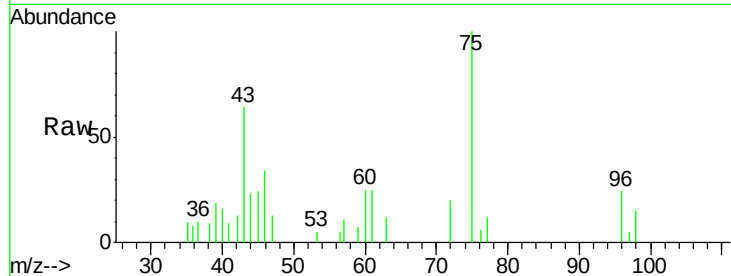
F1C05

Tgt Ion: 43 Resp: 2200

Ion Ratio Lower Upper

43 100

72 24.7 15.4 46.2



#22

cis-1,2-Dichloroethene

Concen: 0.170 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW017864.D

Acq: 13 Jan 2021 21:47

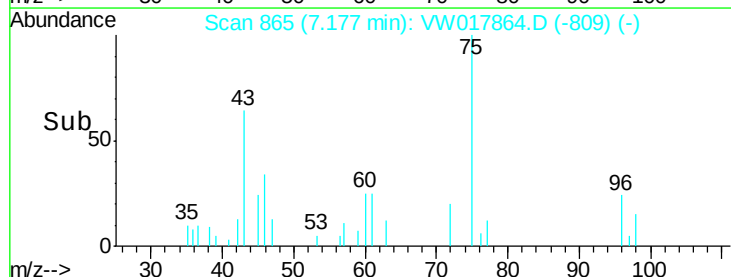
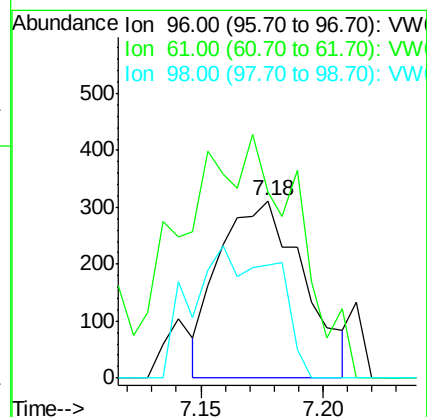
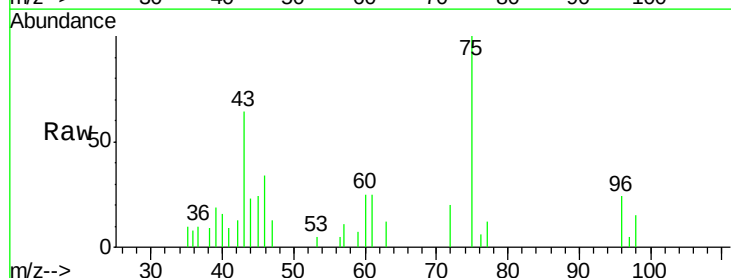
Tgt Ion: 96 Resp: 745

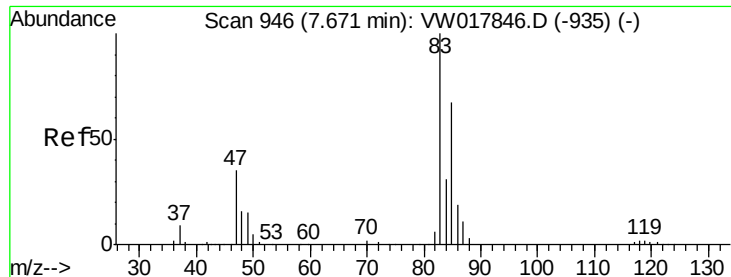
Ion Ratio Lower Upper

96 100

61 104.5 88.2 163.8

98 63.8 43.7 81.1

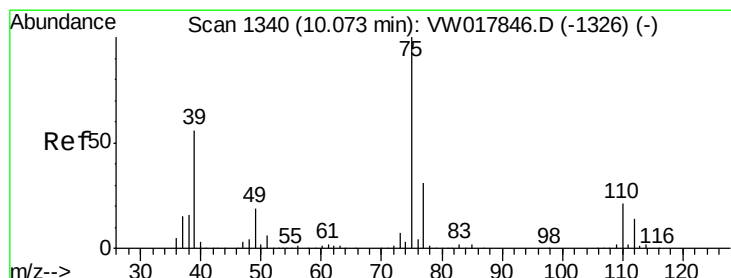
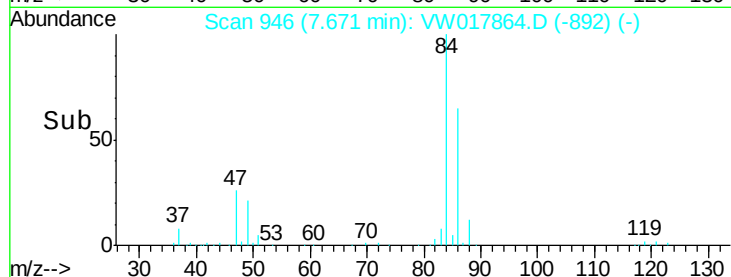
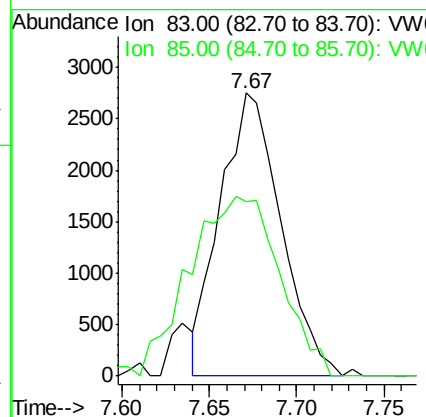
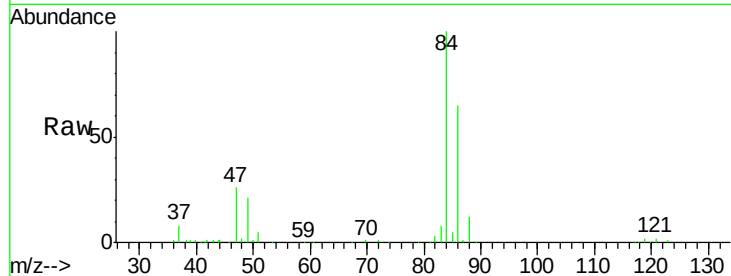




#25  
Chloroform  
Concen: 0.885 ug/L  
RT: 7.67 min Scan# 946  
Delta R.T. 0.00 min  
Lab File: VW017864.D  
Acq: 13 Jan 2021 21:47

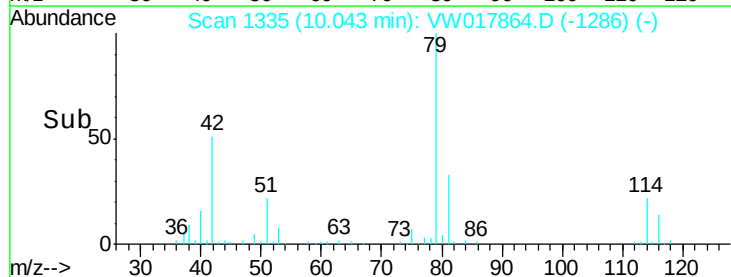
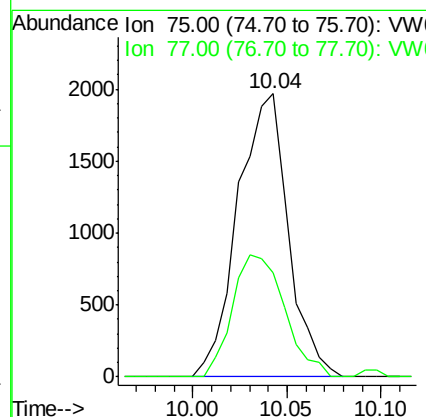
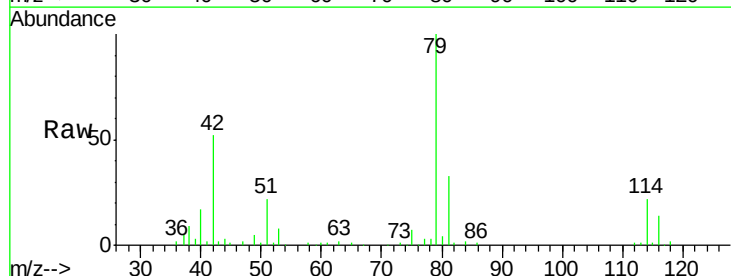
Instrument :  
MSVOA\_W  
ClientSampled :  
F1C05

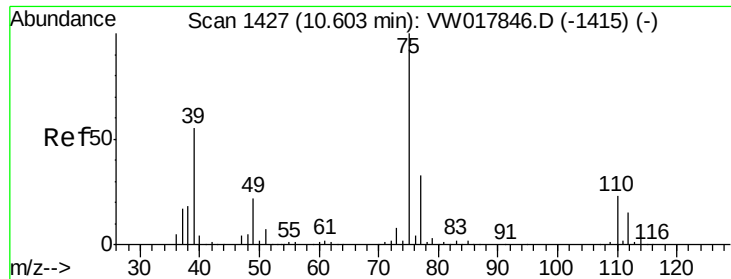
Tgt Ion: 83 Resp: 6630  
Ion Ratio Lower Upper  
83 100  
85 0.0 45.7 84.9#



#42  
cis-1,3-Dichloropropene  
Concen: 0.684 ug/L  
RT: 10.04 min Scan# 1335  
Delta R.T. -0.03 min  
Lab File: VW017864.D  
Acq: 13 Jan 2021 21:47

Tgt Ion: 75 Resp: 3648  
Ion Ratio Lower Upper  
75 100  
77 36.7 21.6 40.2





#45

trans-1,3-Dichloropropene

Concen: 0.529 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.02 min

Lab File: VW017864.D

Acq: 13 Jan 2021 21:47

Instrument :

MSVOA\_W

ClientSampleId :

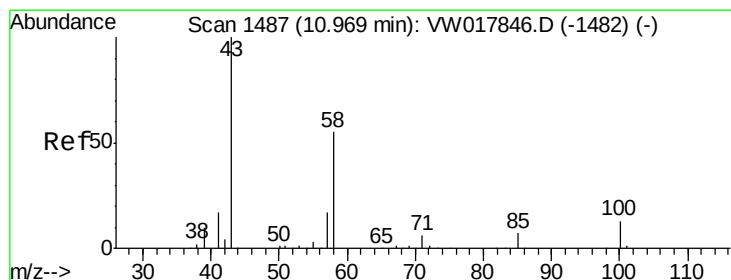
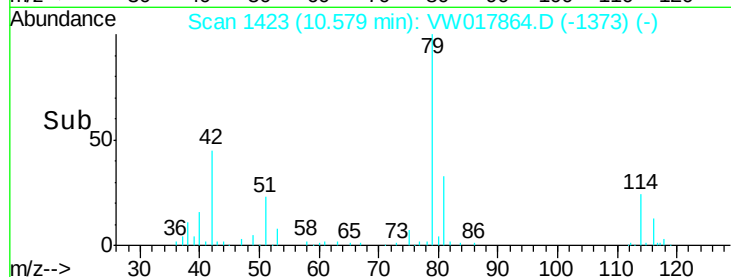
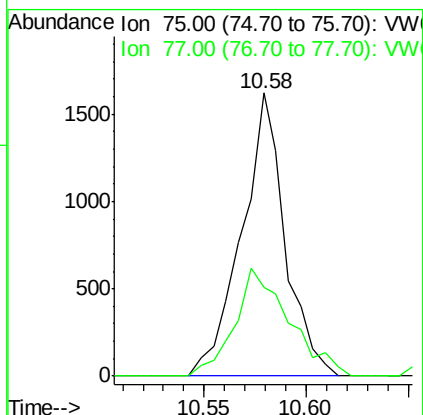
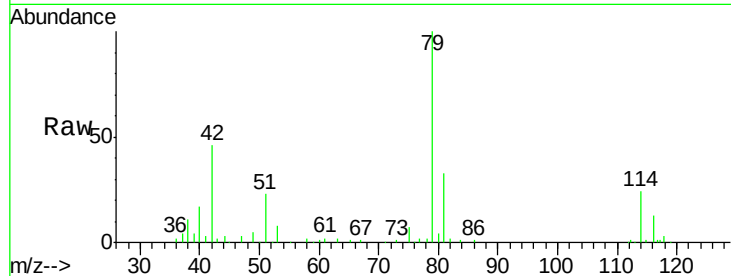
F1C05

Tgt Ion: 75 Resp: 2400

Ion Ratio Lower Upper

75 100

77 31.5 21.6 40.0



#49

2-Hexanone

Concen: 4.745 ug/L

RT: 10.93 min Scan# 1480

Delta R.T. -0.04 min

Lab File: VW017864.D

Acq: 13 Jan 2021 21:47

Tgt Ion: 43 Resp: 5464

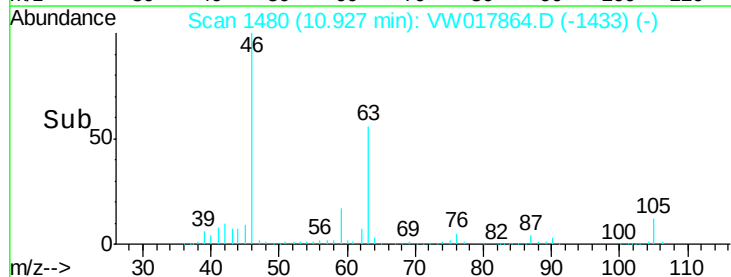
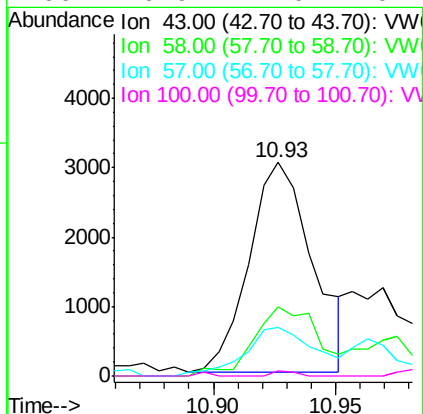
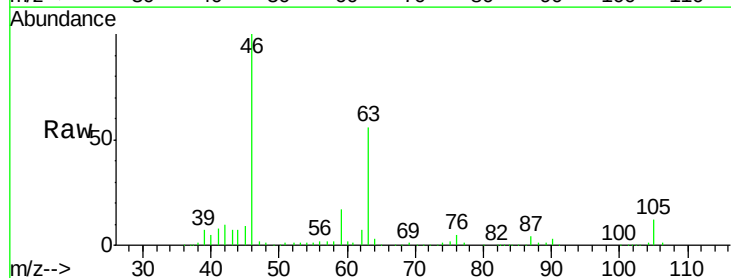
Ion Ratio Lower Upper

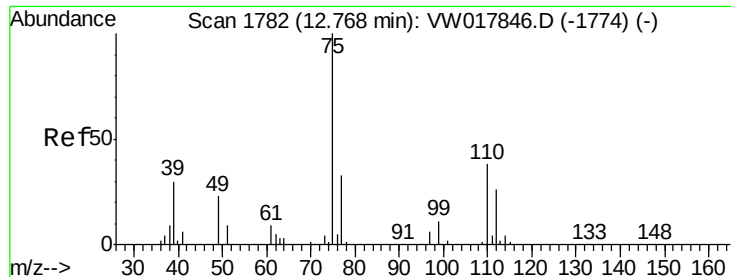
43 100

58 27.6 44.2 66.4#

57 25.6 16.1 24.1#

100 0.9 11.0 16.4#

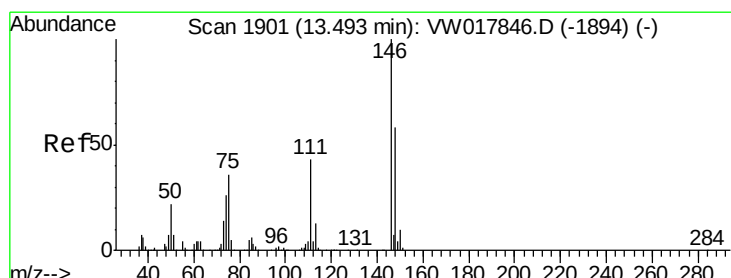
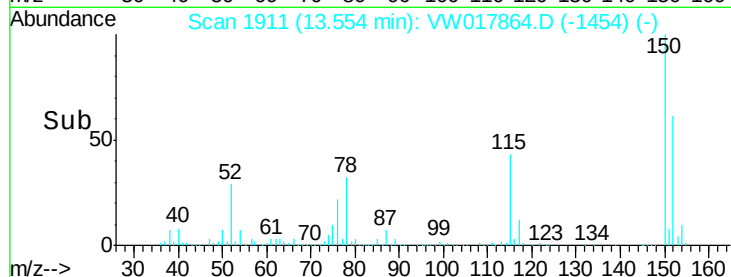
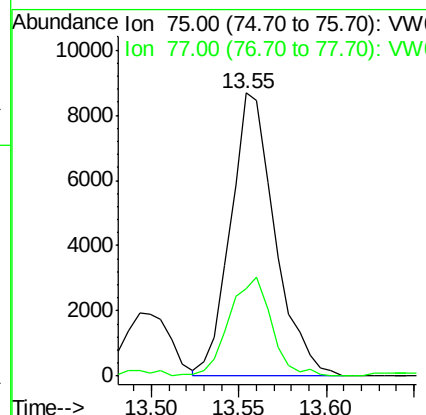
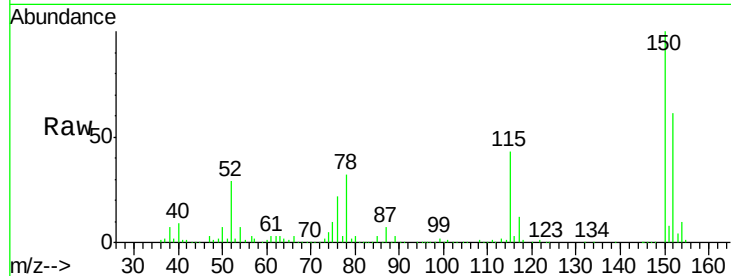




#59  
 1,2,3-Trichloropropane  
 Concen: 7.526 ug/L  
 RT: 13.55 min Scan# 1911  
 Delta R.T. 0.79 min  
 Lab File: VW017864.D  
 Acq: 13 Jan 2021 21:47

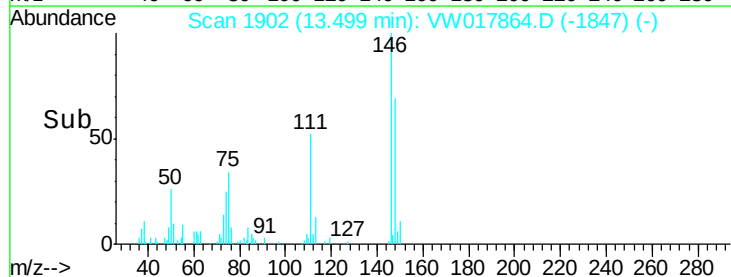
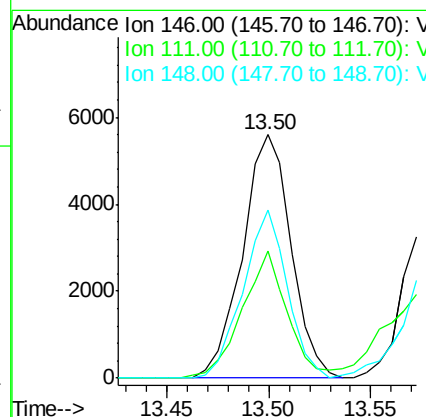
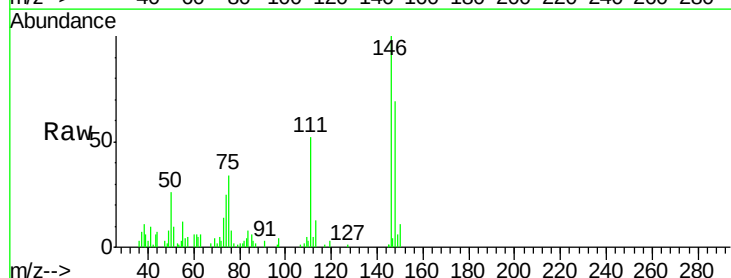
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 F1C05

Tgt Ion: 75 Resp: 15332  
 Ion Ratio Lower Upper  
 75 100  
 77 32.8 25.4 38.0

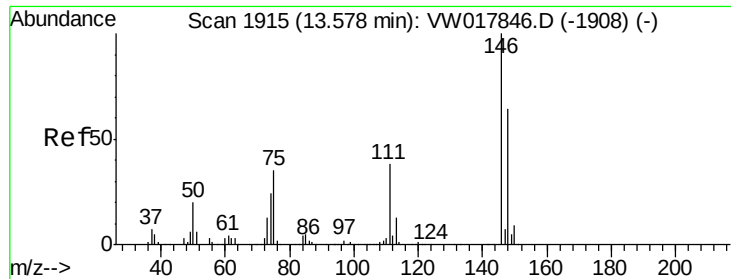


#63  
 1,3-Dichlorobenzene  
 Concen: 1.745 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.01 min  
 Lab File: VW017864.D  
 Acq: 13 Jan 2021 21:47

Tgt Ion: 146 Resp: 9245  
 Ion Ratio Lower Upper  
 146 100  
 111 52.1 29.5 54.7  
 148 68.9 47.7 88.5



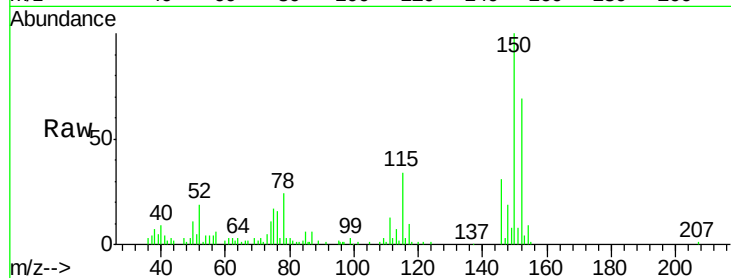




#64  
 1,4-Dichlorobenzene  
 Concen: 1.108 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW017864.D  
 Acq: 13 Jan 2021 21:47

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 F1C05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.4  | 27.7  | 51.5  |
| 148     | 61.9  | 44.2  | 82.2  |



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

