

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV071720\  
 Data File : VV017529.D  
 Acq On : 17 Jul 2020 17:27  
 Operator : SY/MD  
 Sample : L3336-06  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 PMW-4

Quant Time: Jul 18 06:10:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM070820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jul 18 05:06:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 346742   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 303899   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 153579   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 83242    | 46.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.22%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 66751    | 52.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 105.28% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 137168   | 33.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.12%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 112326   | 91.10    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 91.10%  |
| 24) Chloroform-d               | 4.38    | 84    | 173273   | 41.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 126345   | 44.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.18%  |
| 32) Benzene-d6                 | 5.07    | 84    | 311618   | 47.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.94%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 97317    | 51.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 102.96% |
| 41) Toluene-d8                 | 7.34    | 98    | 283195   | 44.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.74%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 48108    | 43.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.44%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 81267    | 104.75   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 104.75% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 126423   | 47.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.26%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 114923   | 44.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.50%  |

## Target Compounds

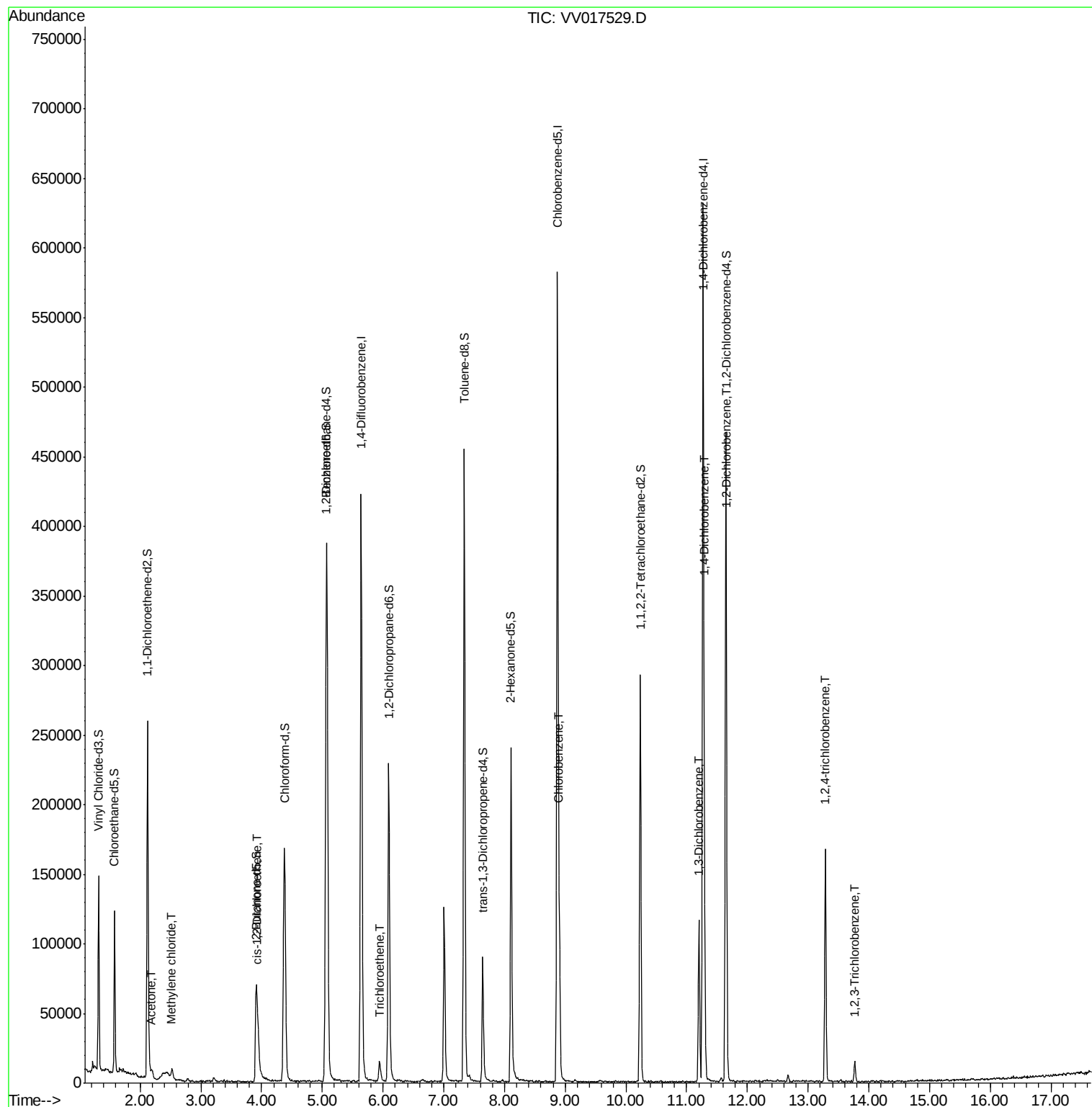
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 13) Acetone                | 2.20  | 43   | 8317     | 4.955  | ug/L   | 97     |
| 16) Methylene chloride     | 2.52  | 84   | 2256     | 0.930  | ug/L   | 83     |
| 20) cis-1,2-Dichloroethene | 3.94  | 96   | 6797     | 2.801  | ug/L   | 88     |
| 34) Trichloroethene        | 5.94  | 95   | 4331     | 1.816  | ug/L   | 97     |
| 51) Chlorobenzene          | 8.90  | 112  | 58550    | 9.623  | ug/L   | 98     |
| 62) 1,3-Dichlorobenzene    | 11.20 | 146  | 46930    | 9.793  | ug/L   | 99     |
| 63) 1,4-Dichlorobenzene    | 11.29 | 146  | 48299    | 9.930  | ug/L   | 99     |
| 65) 1,2-Dichlorobenzene    | 11.66 | 146  | 6837     | 1.431  | ug/L # | 84     |
| 68) 1,2,4-trichlorobenzene | 13.28 | 180  | 48537    | 15.333 | ug/L   | 99     |
| 70) 1,2,3-Trichlorobenzene | 13.77 | 180  | 4840     | 1.503  | ug/L   | 91     |

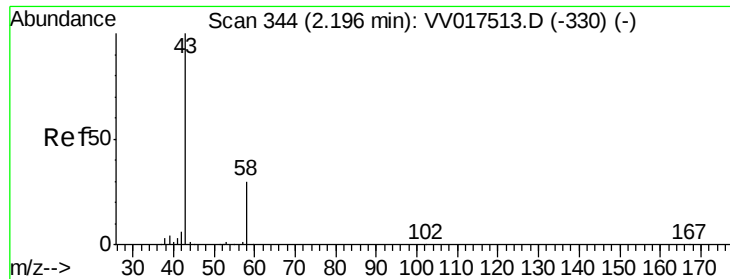
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV071720\  
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Acq On : 17 Jul 2020 17:27  
Operator : SY/MD  
Sample : L3336-06  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
PMW-4

Quant Time: Jul 18 06:10:28 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM070820WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jul 18 05:06:25 2020  
Response via : Initial Calibration





#13

Acetone

Concen: 4.955 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.00 min

Lab File: VV017529.D

Acq: 17 Jul 2020 17:27

Instrument :

MSVOA\_V

ClientSampled :

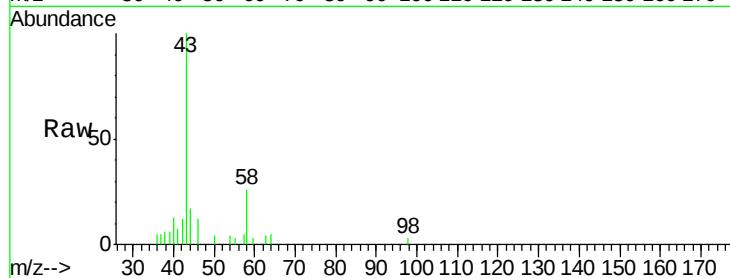
PMW-4

Tot Ion: 43 Resp: 8317

Ion Ratio Lower Upper

43 100

58 29.8 0.0 56.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

2.20

4000

3000

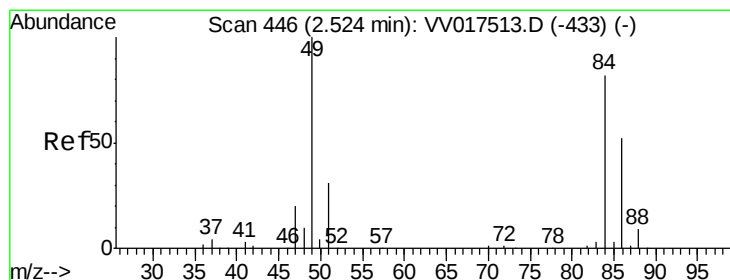
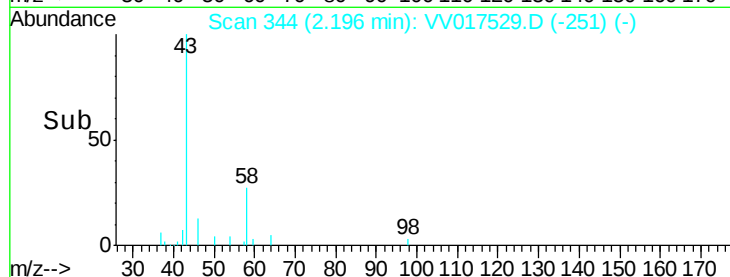
2000

1000

0

Time-->

2.10 2.15 2.20 2.25 2.30



#16

Methylene chloride

Concen: 0.930 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV017529.D

Acq: 17 Jul 2020 17:27

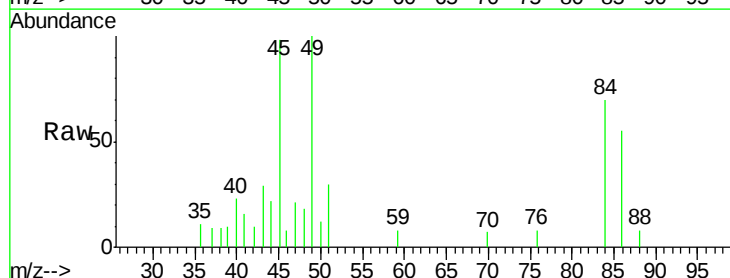
Tgt Ion: 84 Resp: 2256

Ion Ratio Lower Upper

84 100

86 78.5 46.5 86.5

49 142.2 85.3 158.5



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

2.52

2000

1500

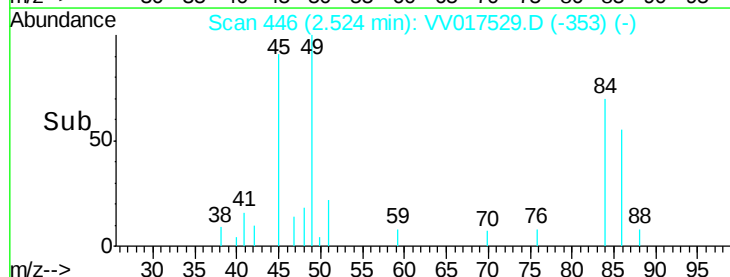
1000

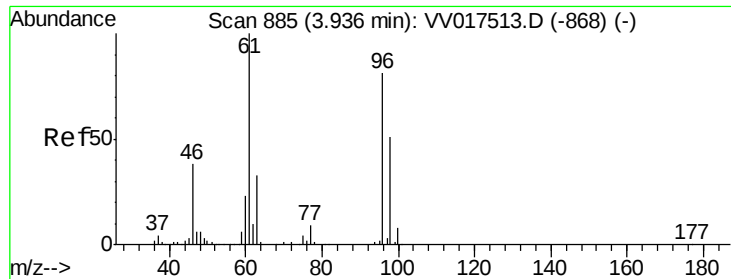
500

0

Time-->

2.50 2.55



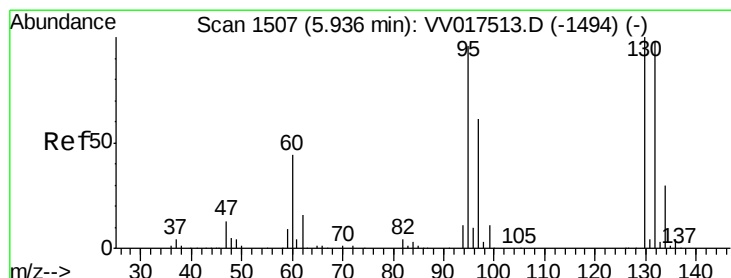
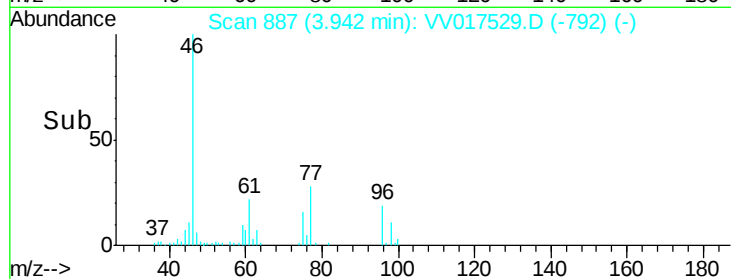
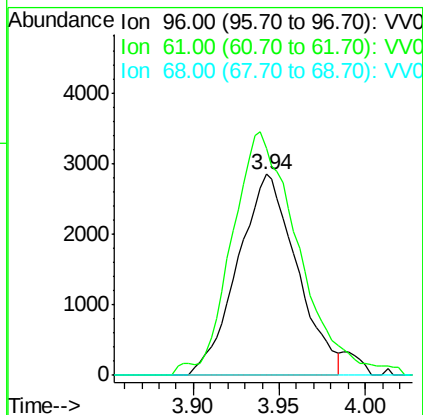
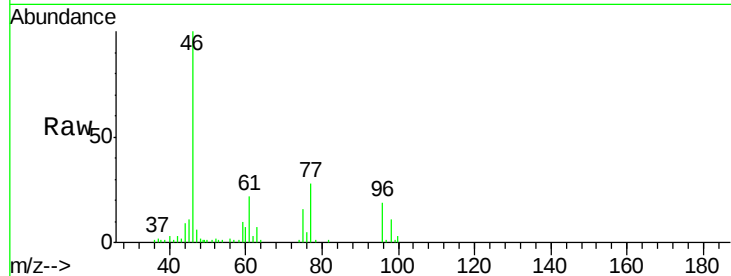


#20

cis-1,2-Dichloroethene  
Concen: 2.801 ug/L  
RT: 3.94 min Scan# 887  
Delta R.T. 0.01 min  
Lab File: VV017529.D  
Acq: 17 Jul 2020 17:27

Instrument :  
MSVOA\_V  
ClientSampleId :  
PMW-4

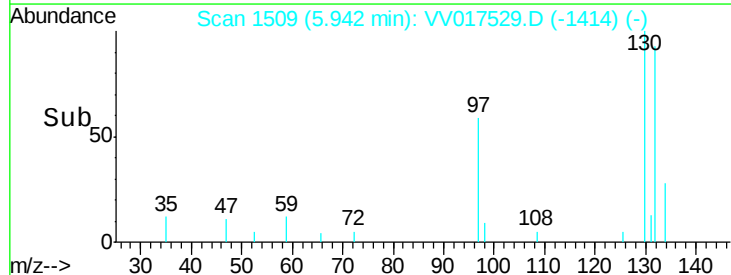
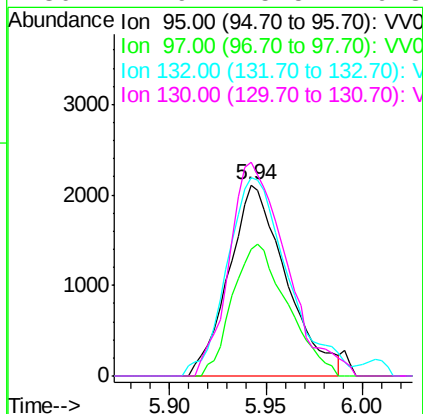
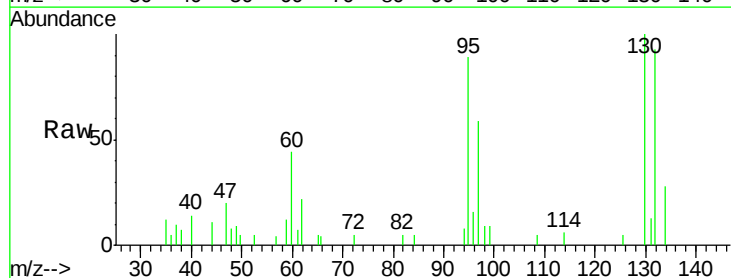
Tot Ion: 96 Resp: 6797  
Ion Ratio Lower Upper  
96 100  
61 112.7 88.9 165.1  
68 0.0 0.0 0.0

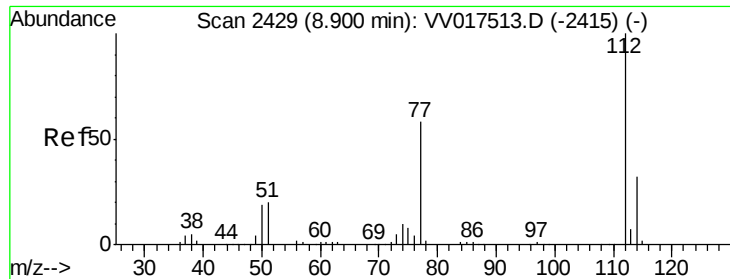


#34

Trichloroethene  
Concen: 1.816 ug/L  
RT: 5.94 min Scan# 1509  
Delta R.T. 0.01 min  
Lab File: VV017529.D  
Acq: 17 Jul 2020 17:27

Tgt Ion: 95 Resp: 4331  
Ion Ratio Lower Upper  
95 100  
97 66.4 45.6 84.6  
132 103.9 74.1 137.5  
130 111.9 75.5 140.3





#51

Chlorobenzene

Concen: 9.623 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV017529.D

Acq: 17 Jul 2020 17:27

Instrument :

MSVOA\_V

ClientSampleId :

PMW-4

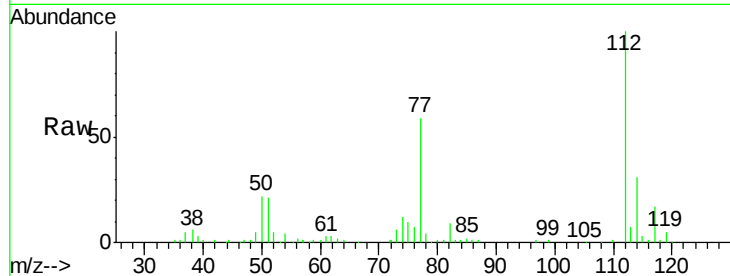
Tot Ion:112 Resp: 58550

Ion Ratio Lower Upper

112 100

114 30.8 22.7 42.1

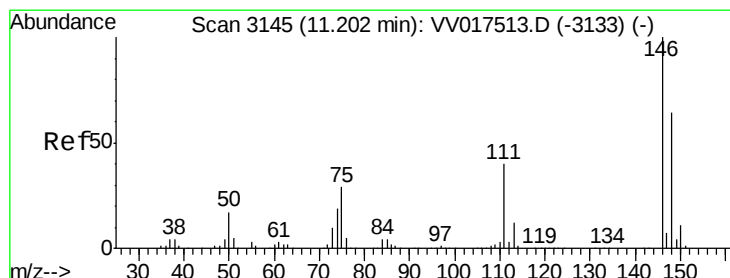
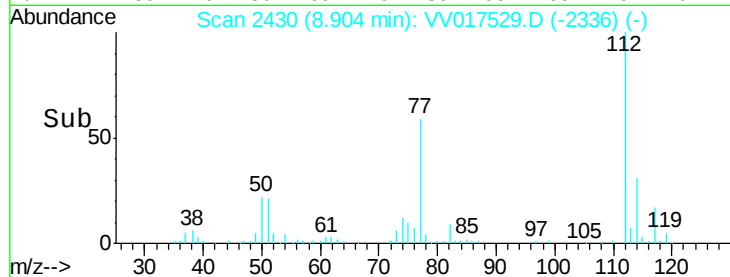
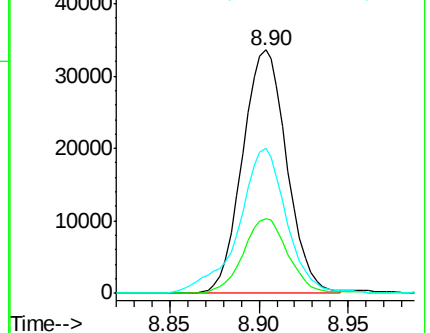
77 59.4 46.7 70.1



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: 9.793 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV017529.D

Acq: 17 Jul 2020 17:27

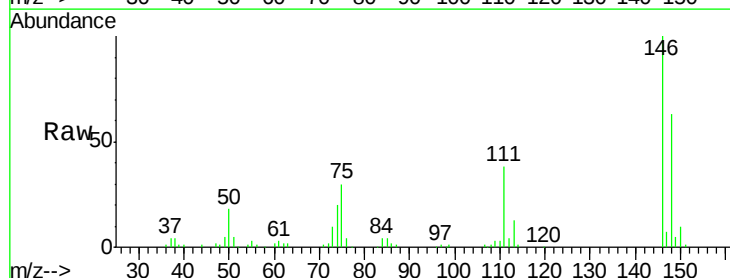
Tgt Ion:146 Resp: 46930

Ion Ratio Lower Upper

146 100

111 38.2 27.2 50.6

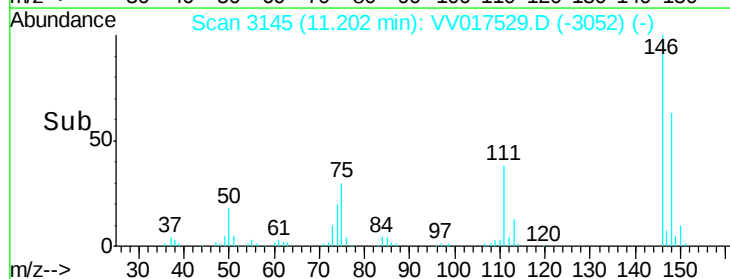
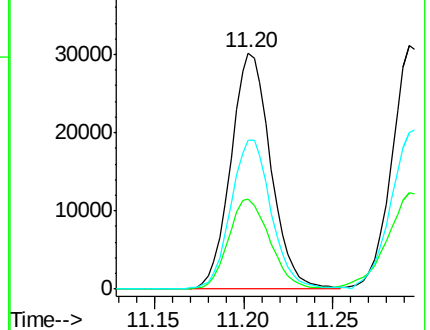
148 62.8 44.7 82.9

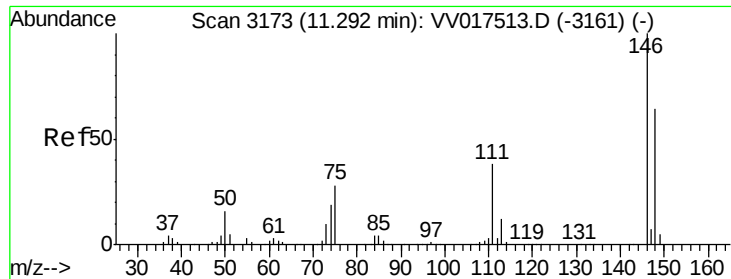


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 9.930 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV017529.D

Acq: 17 Jul 2020 17:27

Instrument :

MSVOA\_V

ClientSampled :

PMW-4

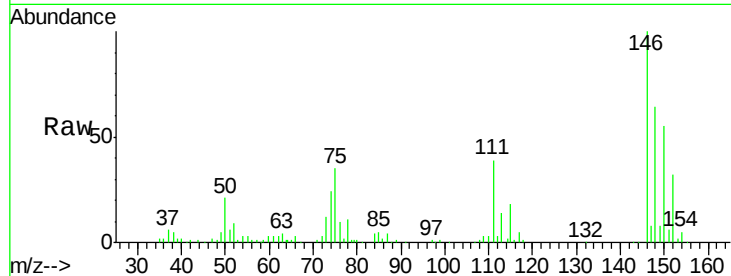
Tot Ion:146 Resp: 48299

Ion Ratio Lower Upper

146 100

111 39.4 27.2 50.4

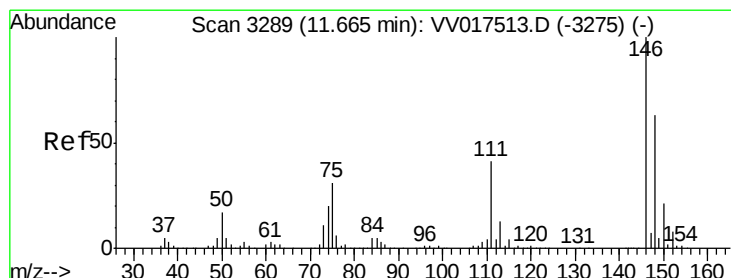
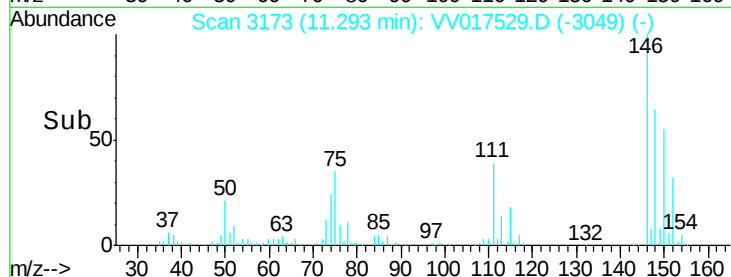
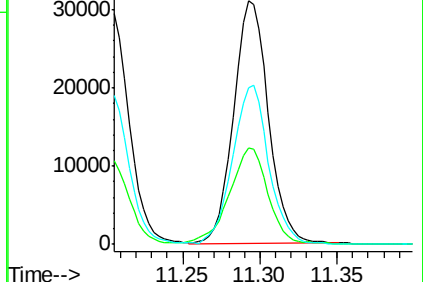
148 64.5 45.4 84.4



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: 1.431 ug/L

RT: 11.66 min Scan# 3288

Delta R.T. -0.00 min

Lab File: VV017529.D

Acq: 17 Jul 2020 17:27

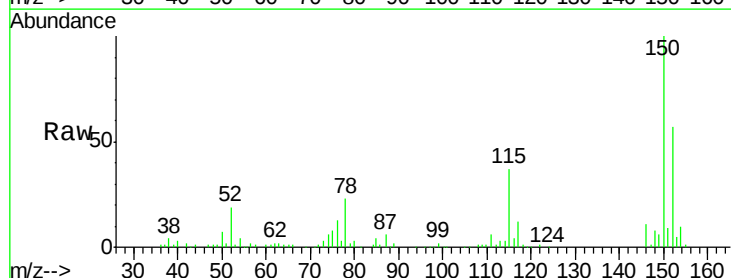
Tgt Ion:146 Resp: 6837

Ion Ratio Lower Upper

146 100

111 54.8 33.5 50.3#

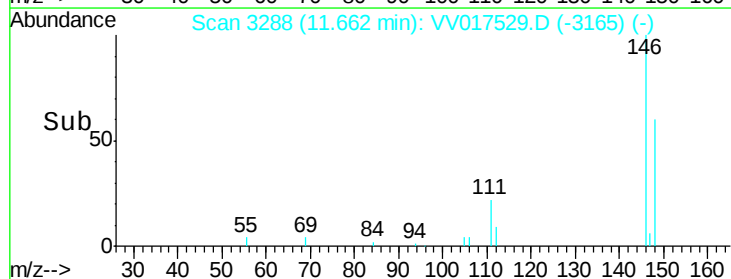
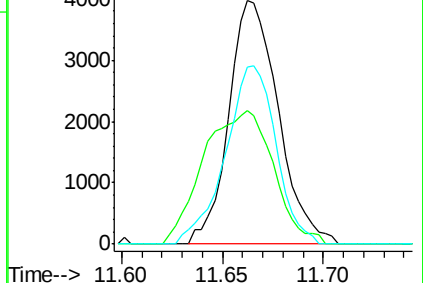
148 72.9 50.6 76.0

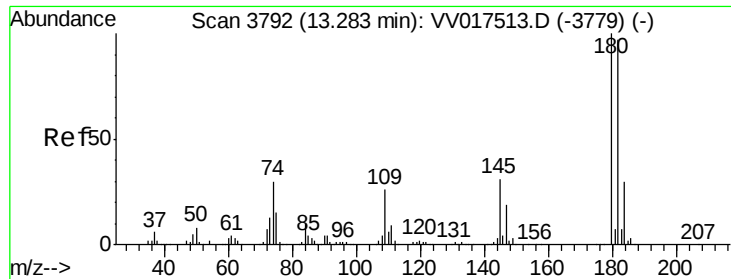


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#68

1,2,4-trichlorobenzene

Concen: 15.333 ug/L

RT: 13.28 min Scan# 3792

Delta R.T. 0.00 min

Lab File: VV017529.D

Acq: 17 Jul 2020 17:27

Instrument :

MSVOA\_V

ClientSampleId :

PMW-4

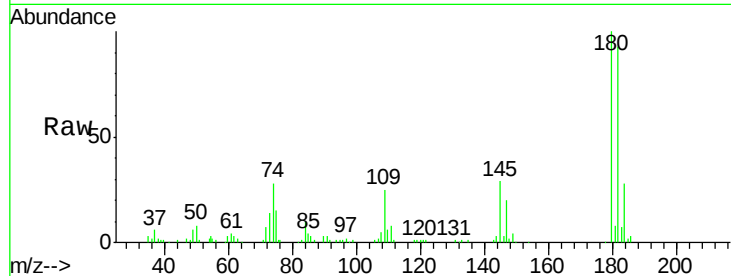
Tot Ion:180 Resp: 48537

Ion Ratio Lower Upper

180 100

182 96.4 76.0 114.0

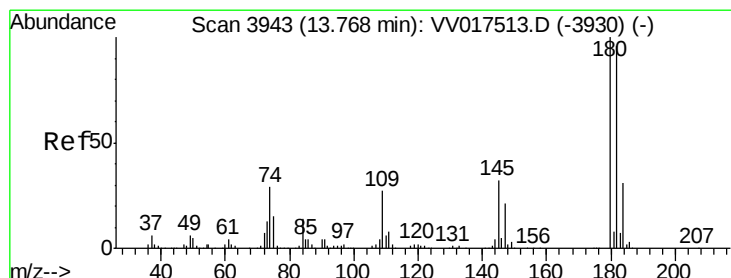
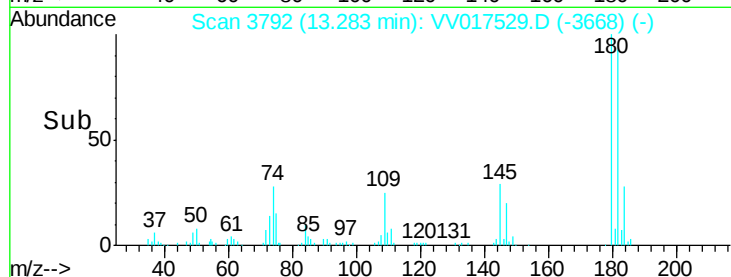
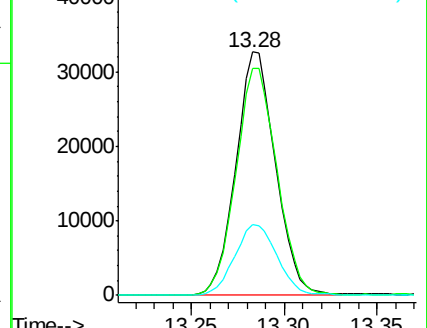
145 31.1 24.6 36.8



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



#70

1,2,3-Trichlorobenzene

Concen: 1.503 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV017529.D

Acq: 17 Jul 2020 17:27

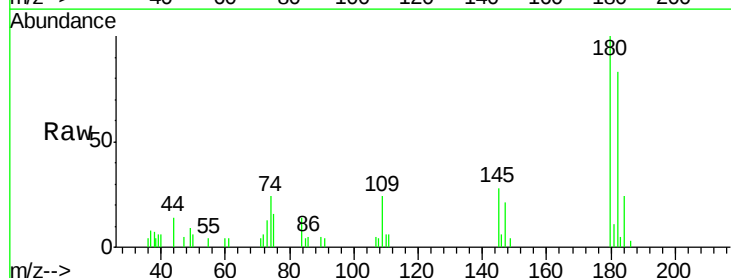
Tgt Ion:180 Resp: 4840

Ion Ratio Lower Upper

180 100

182 86.8 76.3 114.5

145 26.8 26.5 39.7



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

