

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092920\  
 Data File : VV018541.D  
 Acq On : 30 Sep 2020 01:22  
 Operator : SY/MD  
 Sample : L4141-02  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0FG3

Quant Time: Sep 30 04:53:49 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 30 04:50:47 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 384701   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 369754   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 190347   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

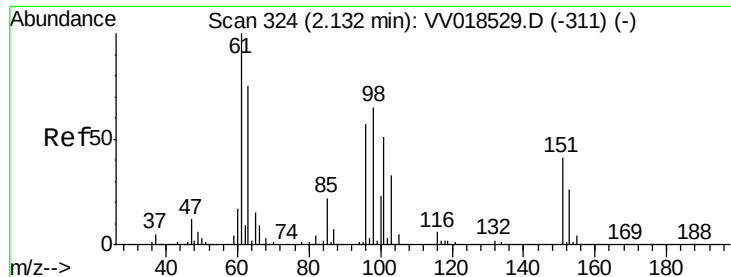
|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 101002   | 44.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 89.54%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 95431    | 51.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 102.32% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 163592   | 35.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 71.18%  |
| 21) 2-Butanone-d5              | 3.92    | 46    | 170996   | 101.61   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 101.61% |
| 24) Chloroform-d               | 4.38    | 84    | 221910   | 45.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.96%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 150094   | 48.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.92%  |
| 32) Benzene-d6                 | 5.08    | 84    | 457358   | 48.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.66%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 142438   | 50.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.66% |
| 41) Toluene-d8                 | 7.34    | 98    | 421317   | 47.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.64%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 69540    | 45.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.98%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 92896    | 86.43    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 86.43%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 164698   | 43.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 87.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 185724   | 50.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.48% |

## Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101  | 1691     | 0.676  | ug/L # | 21     |
| 25) Chloroform                 | 4.40  | 83   | 5172     | 1.018  | ug/L   | 84     |
| 35) Methylcyclohexane          | 6.09  | 83   | 35008    | 8.229  | ug/L # | 20     |
| 39) cis-1,3-Dichloropropene    | 7.01  | 75   | 4563     | 1.044  | ug/L # | 72     |
| 48) 2-Hexanone                 | 8.17  | 43   | 12795    | 4.560  | ug/L # | 77     |
| 51) Chlorobenzene              | 8.90  | 112  | 8645     | 1.087  | ug/L   | 98     |
| 59) 1,2,3-Trichloropropane     | 11.27 | 75   | 22045    | 6.503  | ug/L   | 94     |
| 63) 1,4-Dichlorobenzene        | 11.30 | 146  | 5353     | 0.844  | ug/L   | 96     |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 68979    | 11.319 | ug/L   | 100    |
| 67) 1,3,5-Trichlorobenzene     | 13.29 | 180  | 10697    | 2.507  | ug/L   | 97     |
| 68) 1,2,4-trichlorobenzene     | 13.29 | 180  | 10697    | 2.694  | ug/L   | 98     |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 9421     | 2.363  | ug/L   | 98     |

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





#10

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

Concen: 0.676 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV018541.D

Acq: 30 Sep 2020 01:22

Instrument :

MSVOA\_V

ClientSampleId :

C0FG3

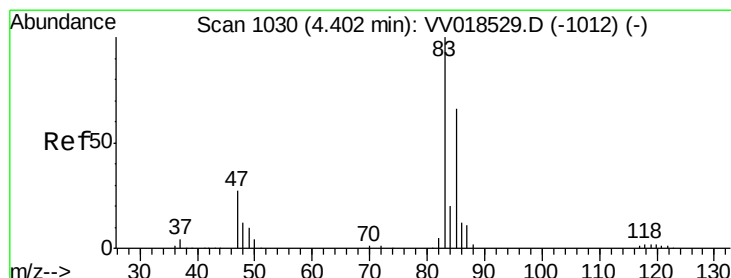
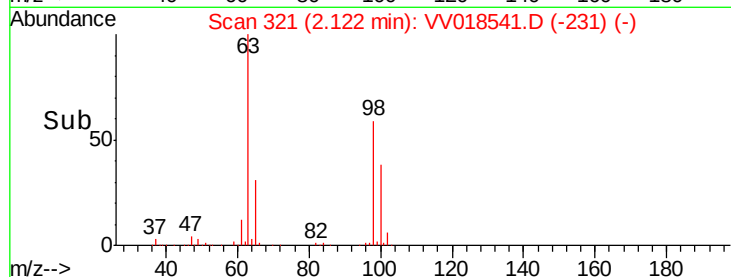
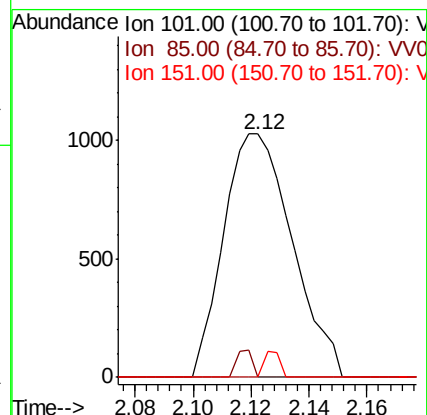
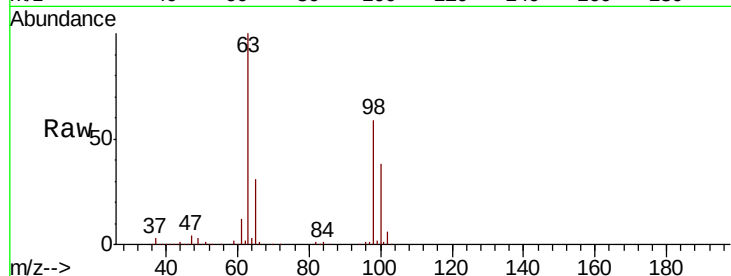
Tot Ion:101 Resp: 1691

Ion Ratio Lower Upper

101 100

85 2.6 34.6 52.0#

151 2.4 64.3 96.5#



#25

Chloroform

Concen: 1.018 ug/L

RT: 4.40 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VV018541.D

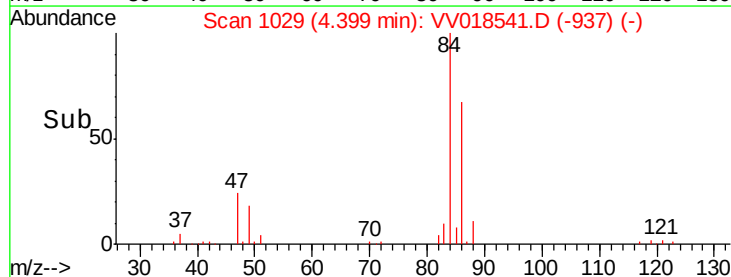
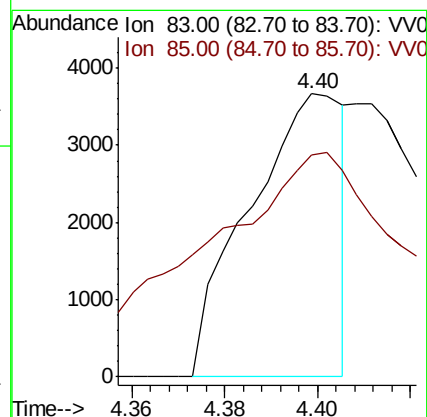
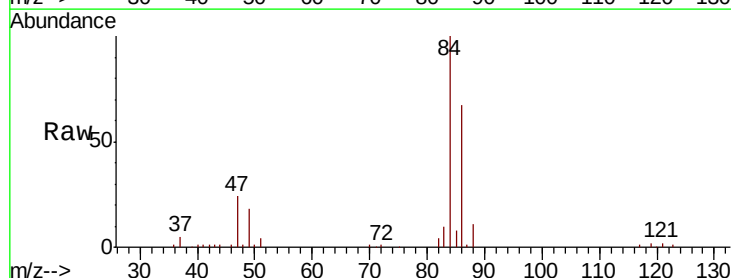
Acq: 30 Sep 2020 01:22

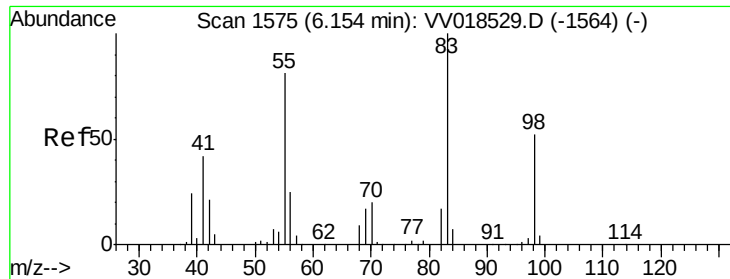
Tgt Ion: 83 Resp: 5172

Ion Ratio Lower Upper

83 100

85 78.5 46.2 85.8

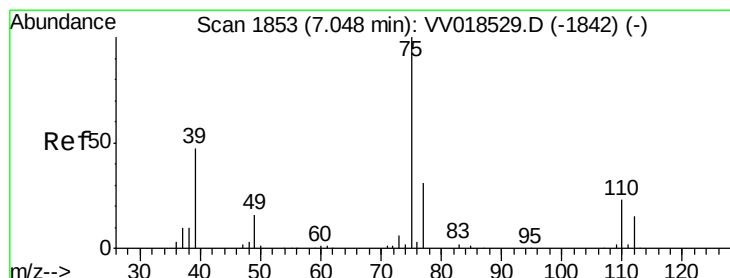
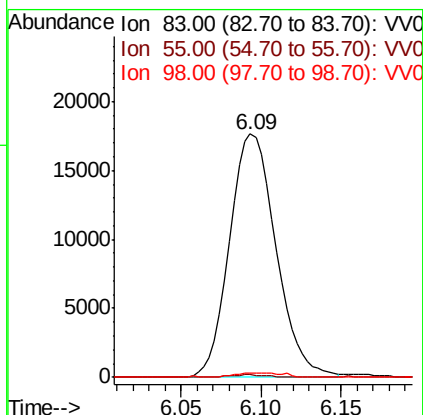
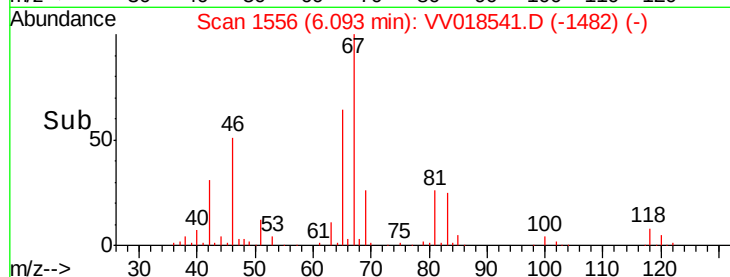
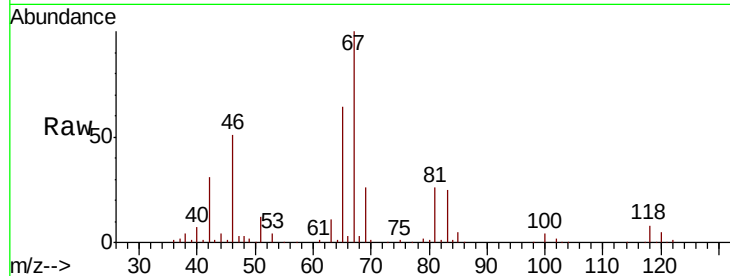




#35  
Methylvlcyclohexane  
Concen: 8.229 ug/L  
RT: 6.09 min Scan# 1556  
Delta R.T. -0.06 min  
Lab File: VV018541.D  
Acq: 30 Sep 2020 01:22

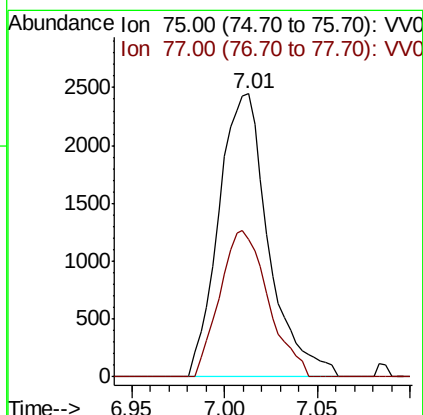
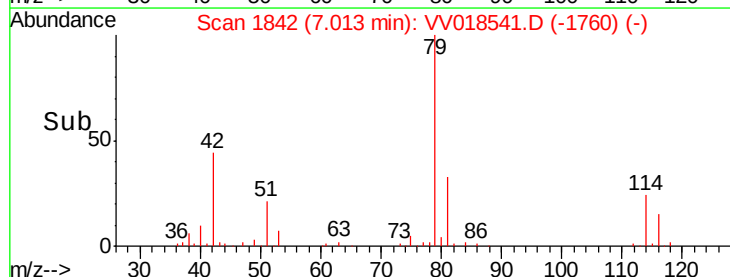
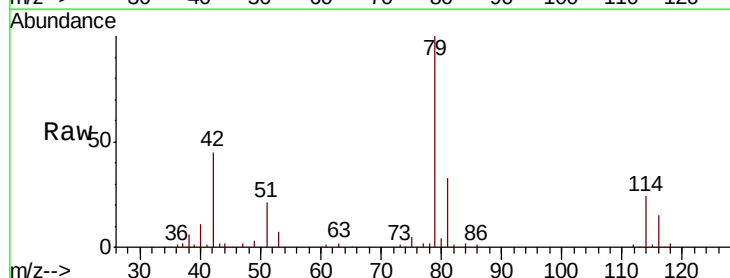
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0FG3

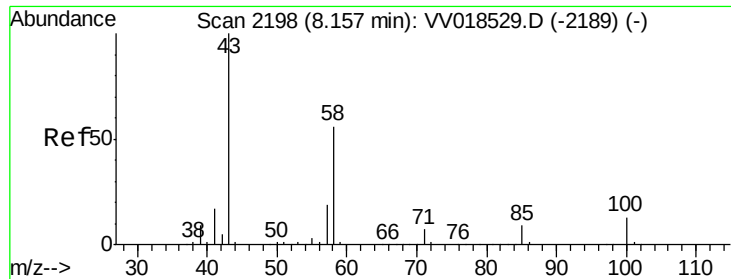
Tot Ion: 83 Resp: 35008  
Ion Ratio Lower Upper  
83 100  
55 0.8 60.1 90.1#  
98 1.6 40.2 60.4#



#39  
cis-1,3-Dichloropropene  
Concen: 1.044 ug/L  
RT: 7.01 min Scan# 1842  
Delta R.T. -0.04 min  
Lab File: VV018541.D  
Acq: 30 Sep 2020 01:22

Tgt Ion: 75 Resp: 4563  
Ion Ratio Lower Upper  
75 100  
77 48.4 23.0 42.6#

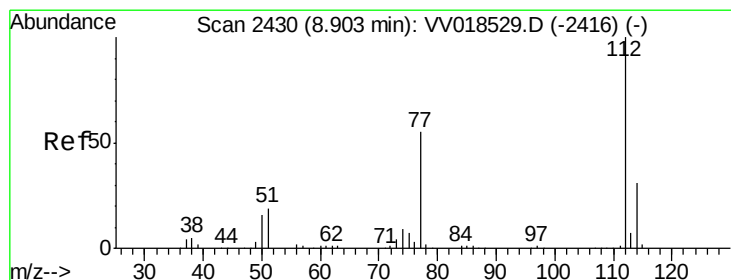
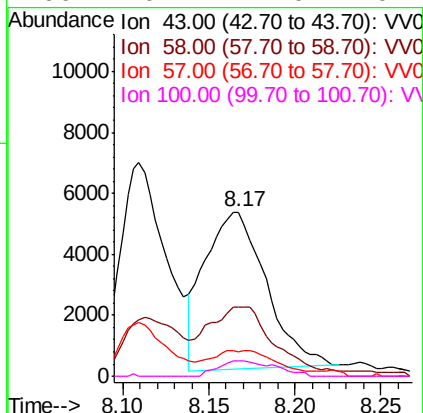
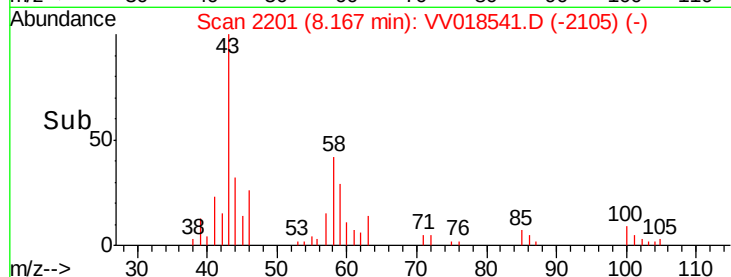
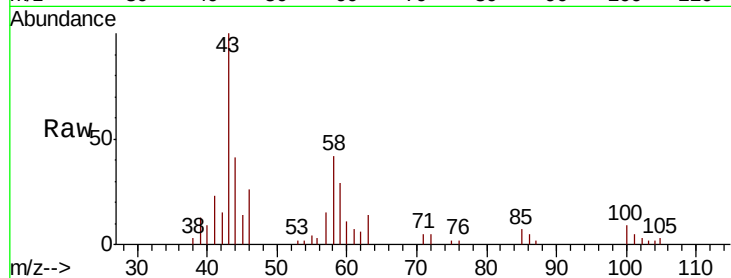




#48  
2-Hexanone  
Concen: 4.560 ug/L  
RT: 8.17 min Scan# 2201  
Delta R.T. 0.01 min  
Lab File: VV018541.D  
Acq: 30 Sep 2020 01:22

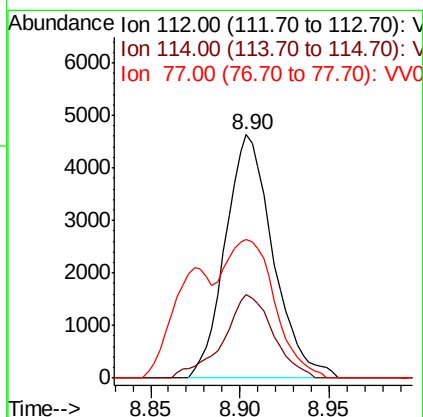
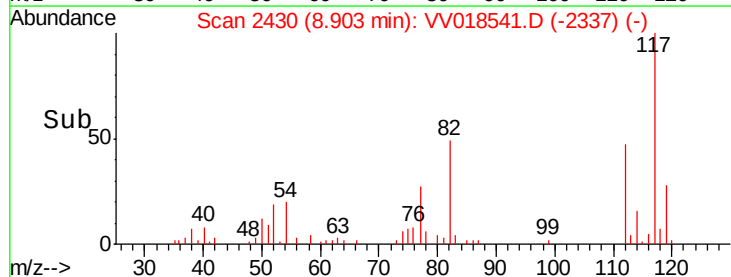
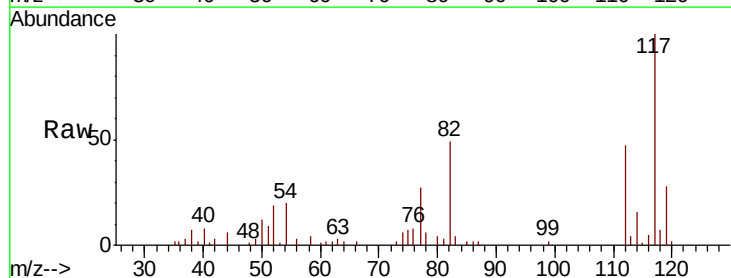
Instrument :  
MSVOA\_V  
ClientSampled :  
C0FG3

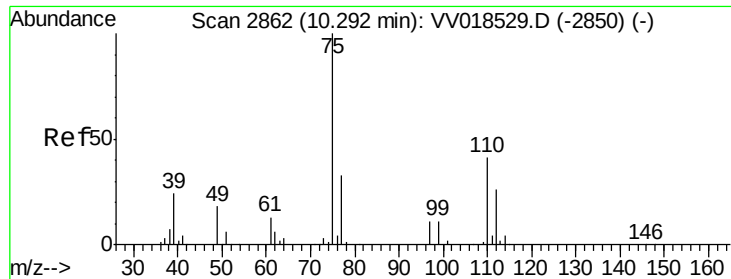
Tot Ion: 43 Resp: 12795  
Ion Ratio Lower Upper  
43 100  
58 42.3 45.1 67.7#  
57 2.6 15.7 23.5#  
100 6.7 11.0 16.4#



#51  
Chlorobenzene  
Concen: 1.087 ug/L  
RT: 8.90 min Scan# 2430  
Delta R.T. 0.00 min  
Lab File: VV018541.D  
Acq: 30 Sep 2020 01:22

Tgt Ion: 112 Resp: 8645  
Ion Ratio Lower Upper  
112 100  
114 34.2 22.4 41.6  
77 56.8 44.8 67.2





#59

1,2,3-Trichloropropane

Concen: 6.503 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.98 min

Lab File: VV018541.D

Acq: 30 Sep 2020 01:22

Instrument :

MSVOA\_V

ClientSampled :

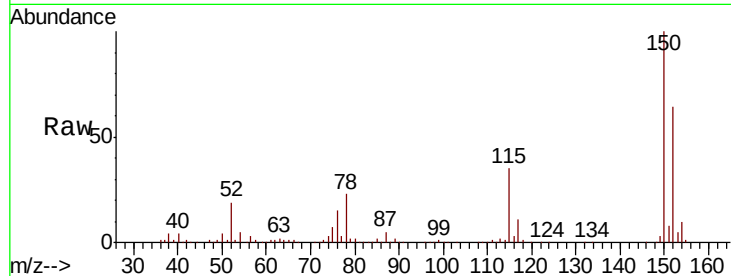
C0FG3

Tot Ion: 75 Resp: 22045

Ion Ratio Lower Upper

75 100

77 35.2 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VV018541.D (-2240) (-)

Ion 77.00 (76.70 to 77.70): VV018541.D (-2240) (-)

11.27

15000

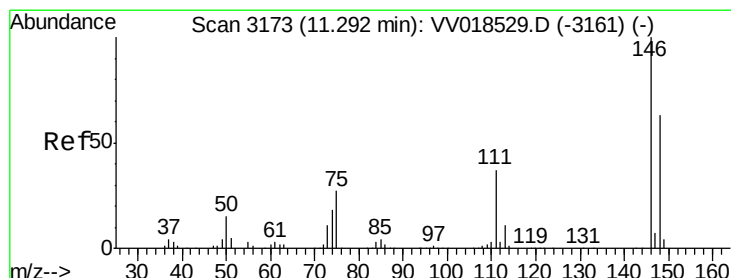
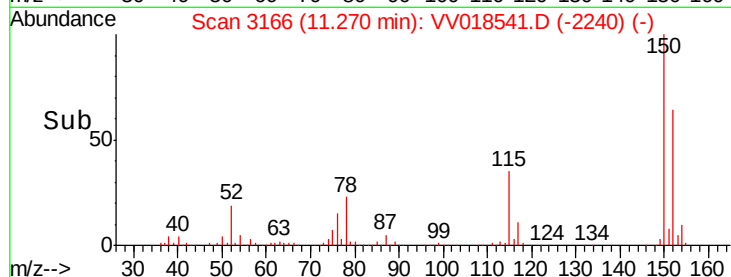
10000

5000

0

11.20 11.25 11.30 11.35

Time-->



#63

1,4-Dichlorobenzene

Concen: 0.844 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV018541.D

Acq: 30 Sep 2020 01:22

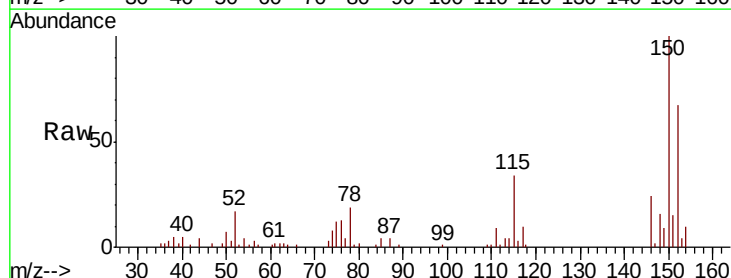
Tgt Ion: 146 Resp: 5353

Ion Ratio Lower Upper

146 100

111 39.6 26.2 48.6

148 67.3 44.4 82.5



Abundance Ion 146.00 (145.70 to 146.70): VV018541.D (-3049) (-)

Ion 111.00 (110.70 to 111.70): VV018541.D (-3049) (-)

Ion 148.00 (147.70 to 148.70): VV018541.D (-3049) (-)

11.30

4000

3000

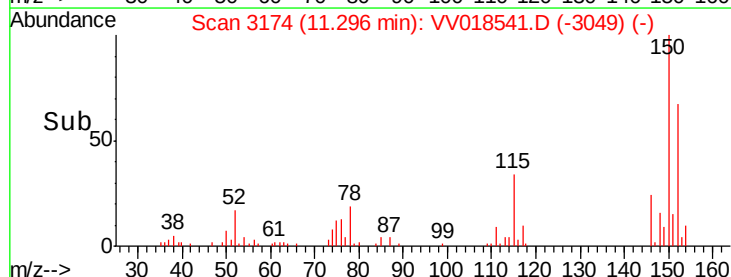
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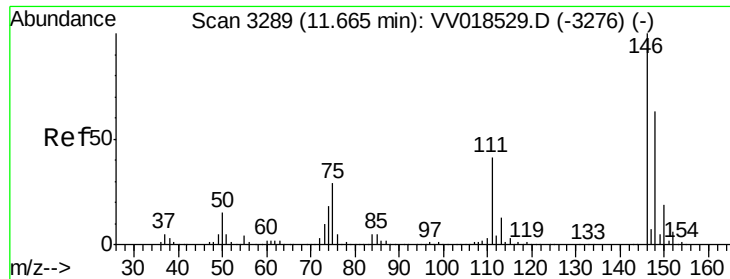
1000

0

11.25 11.30

Time-->

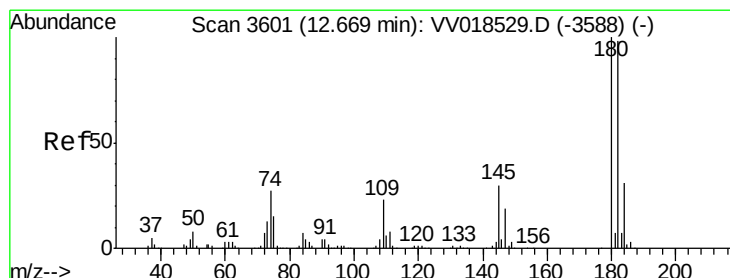
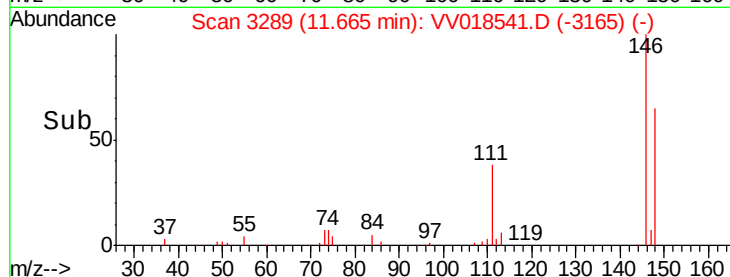
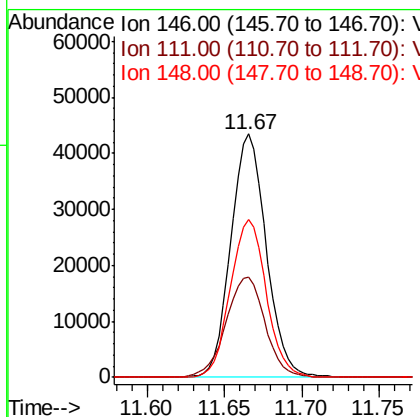
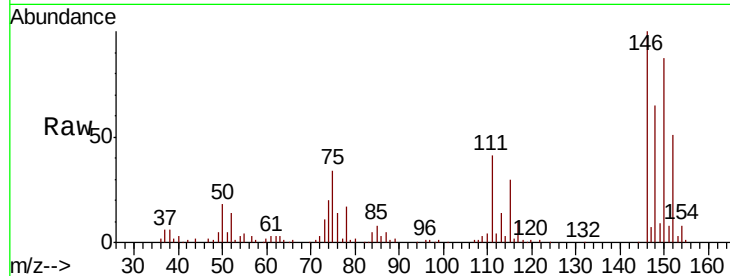




#65  
 1,2-Dichlorobenzene  
 Concen: 11.319 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV018541.D  
 Acq: 30 Sep 2020 01:22

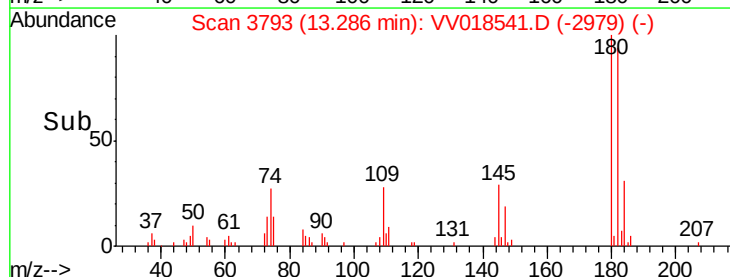
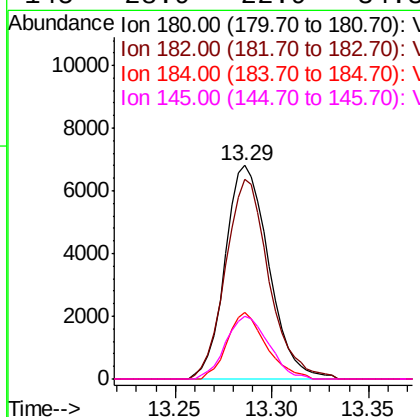
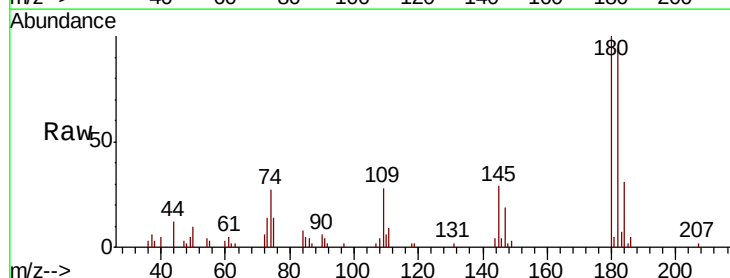
Instrument :  
 MSVOA\_V  
 ClientSampleID :  
 C0FG3

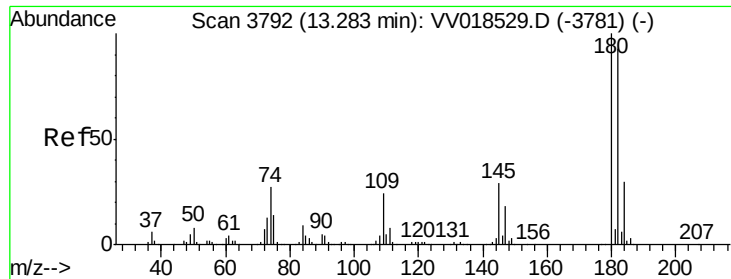
Tot Ion:146 Resp: 68979  
 Ion Ratio Lower Upper  
 146 100  
 111 41.4 32.8 49.2  
 148 64.9 51.9 77.9



#67  
 1,3,5-Trichlorobenzene  
 Concen: 2.507 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.62 min  
 Lab File: VV018541.D  
 Acq: 30 Sep 2020 01:22

Tgt Ion:180 Resp: 10697  
 Ion Ratio Lower Upper  
 180 100  
 182 93.1 77.1 115.7  
 184 27.7 24.3 36.5  
 145 28.9 22.9 34.3

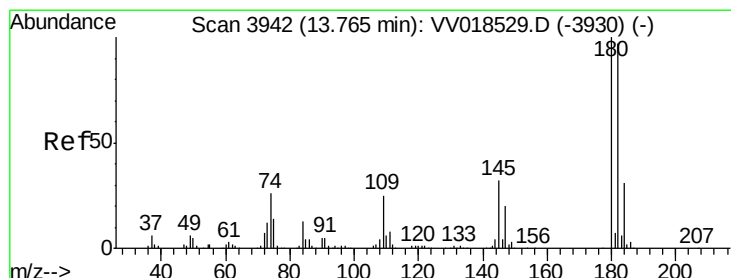
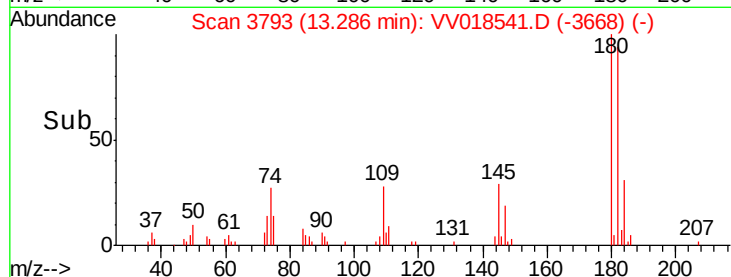
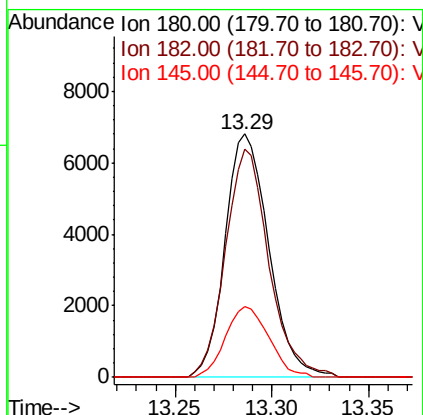
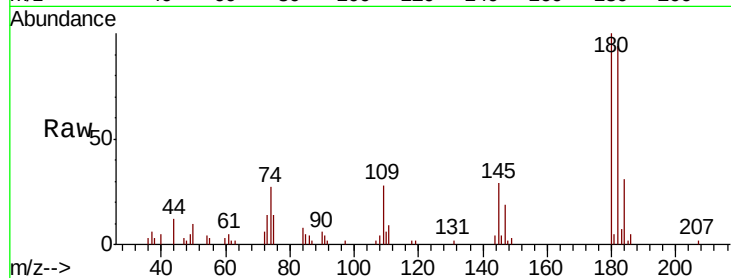




#68  
 1,2,4-trichlorobenzene  
 Concen: 2.694 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.00 min  
 Lab File: VV018541.D  
 Acq: 30 Sep 2020 01:22

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 C0FG3

Tot Ion:180 Resp: 10697  
 Ion Ratio Lower Upper  
 180 100  
 182 93.1 76.3 114.5  
 145 28.9 23.6 35.4



#70  
 1,2,3-Trichlorobenzene  
 Concen: 2.363 ug/L  
 RT: 13.77 min Scan# 3944  
 Delta R.T. 0.01 min  
 Lab File: VV018541.D  
 Acq: 30 Sep 2020 01:22

Tgt Ion:180 Resp: 9421  
 Ion Ratio Lower Upper  
 180 100  
 182 94.5 77.1 115.7  
 145 31.3 25.1 37.7

