

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041720\  
 Data File : VV015548.D  
 Acq On : 17 Apr 2020 12:29  
 Operator : SY/MD  
 Sample : L2320-03DL 5X  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFRR0DL

Quant Time: Apr 18 01:14:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR040920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Apr 18 00:37:52 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 97610    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 92051    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 46871    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

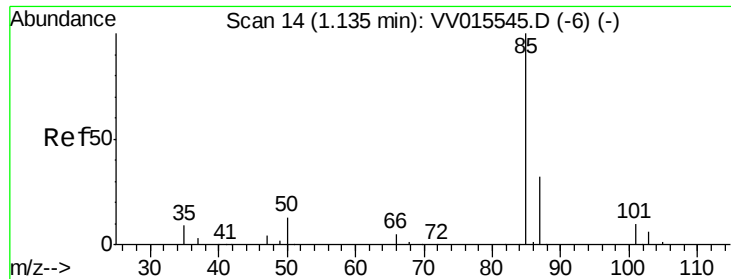
|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 23898    | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 94.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 23440    | 5.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 100.60% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 36346    | 3.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 68.20%  |
| 20) 2-Butanone-d5              | 3.93   | 46    | 76076    | 53.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.00% |
| 24) Chloroform-d               | 4.38   | 84    | 53659    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 31325    | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 103.60% |
| 32) Benzene-d6                 | 5.07   | 84    | 104459   | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.20% |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 32952    | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.60% |
| 41) Toluene-d8                 | 7.34   | 98    | 94148    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.60%  |
| 43) trans-1,3-Dichloropropene- | 7.65   | 79    | 13202    | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 95.40%  |
| 46) 2-Hexanone-d5              | 8.11   | 63    | 62870    | 47.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 94.26%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 22255    | 4.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 88.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 35288    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.80%  |

## Target Compounds

|                             |      |     |       |              | Ovalue |
|-----------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane  | 1.14 | 85  | 8420  | 0.872 ug/L   | 95     |
| 9) Trichlorofluoromethane   | 1.76 | 101 | 816   | 0.072 ug/L   | 100    |
| 12) 1,1-Dichloroethene      | 2.12 | 96  | 768   | 0.125 ug/L # | 1      |
| 17) Methyl tert-butyl Ether | 2.79 | 73  | 2803  | 0.171 ug/L # | 86     |
| 22) cis-1,2-Dichloroethene  | 3.94 | 96  | 3266  | 0.456 ug/L   | 92     |
| 25) Chloroform              | 4.41 | 83  | 2482  | 0.186 ug/L   | 97     |
| 34) Trichloroethene         | 5.94 | 95  | 80417 | 10.844 ug/L  | 99     |
| 47) Tetrachloroethene       | 8.00 | 164 | 65727 | 11.963 ug/L  | 98     |

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





#2

Dichlorodifluoromethane

Concen: 0.872 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV015548.D

Acq: 17 Apr 2020 12:29

Instrument :

MSVOA\_V

ClientSampleId :

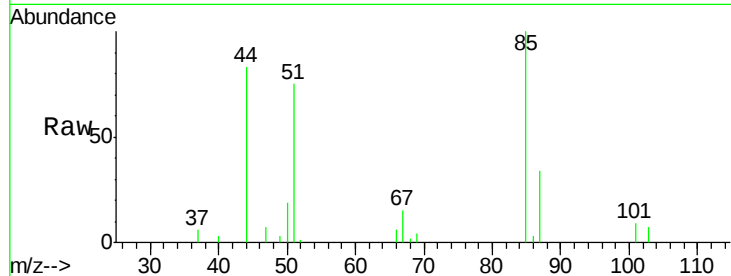
BFRRODL

Tot Ion: 85 Resp: 8420

Ion Ratio Lower Upper

85 100

87 34.1 25.3 37.9

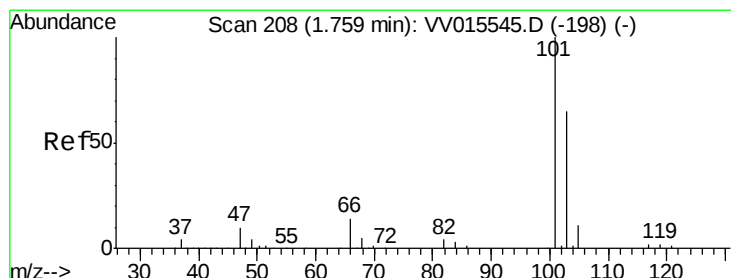
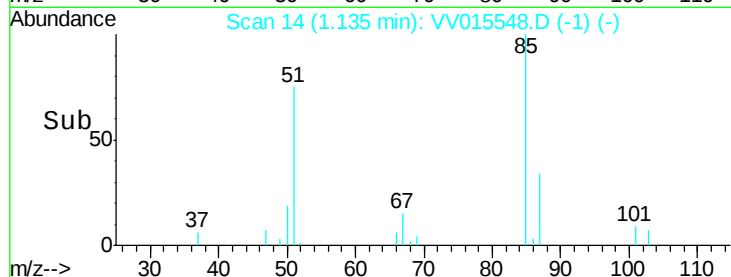


Abundance Ion 85.00 (84.70 to 85.70): VV015548.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV015548.D (-6) (-)

1.14

Time-->



#9

Trichlorofluoromethane

Concen: 0.072 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.00 min

Lab File: VV015548.D

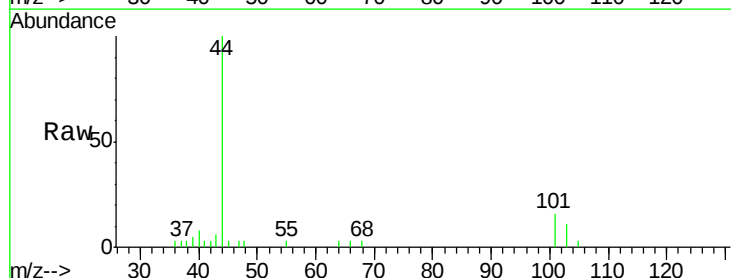
Acq: 17 Apr 2020 12:29

Tgt Ion: 101 Resp: 816

Ion Ratio Lower Upper

101 100

103 65.1 51.9 77.9

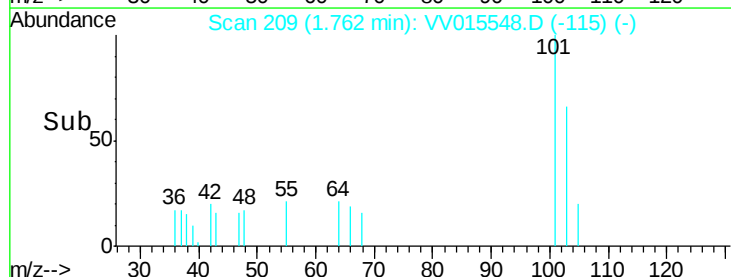


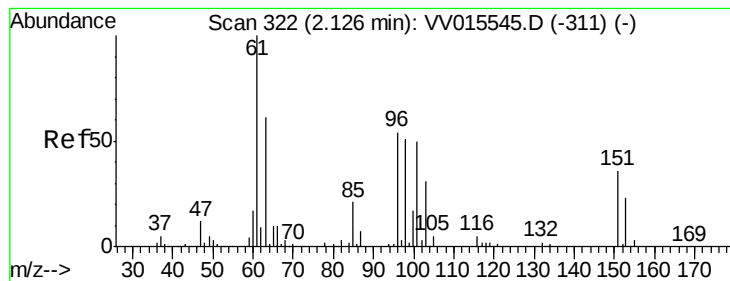
Abundance Ion 101.00 (100.70 to 101.70): VV015548.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV015548.D (-198) (-)

1.76

Time-->





#12

1,1-Dichloroethene

Concen: 0.125 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.00 min

Lab File: VV015548.D

Acq: 17 Apr 2020 12:29

Instrument :

MSVOA\_V

ClientSampleId :

BFRRODL

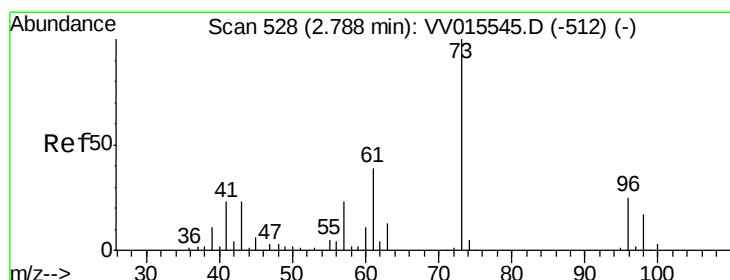
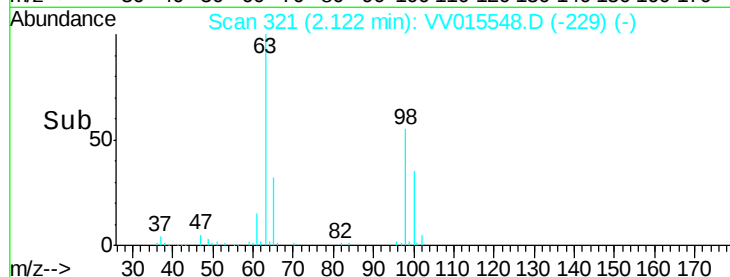
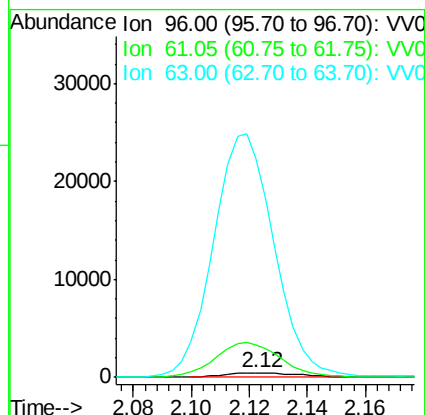
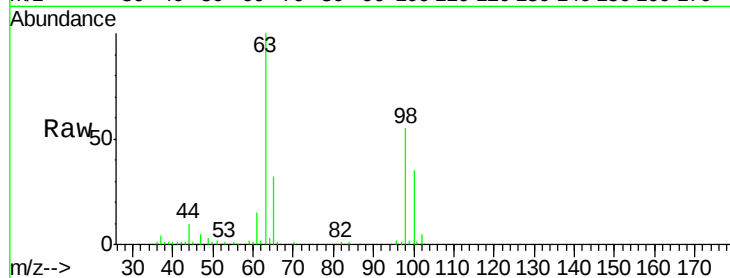
Tot Ion: 96 Resp: 768

Ion Ratio Lower Upper

96 100

61 743.4 127.7 237.1#

63 4987.1 75.1 139.5#



#17

Methyl tert-butyl Ether

Concen: 0.171 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV015548.D

Acq: 17 Apr 2020 12:29

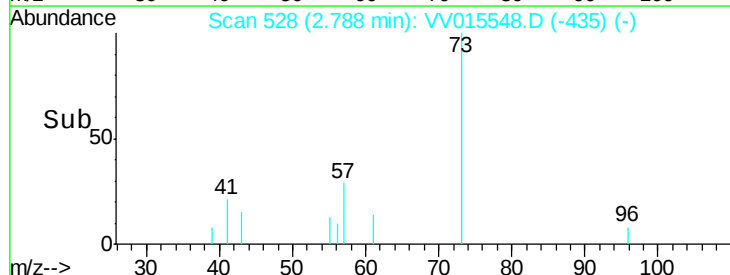
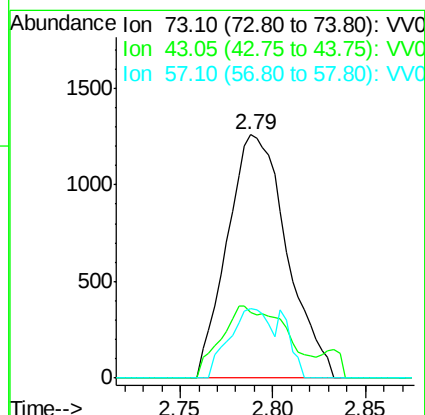
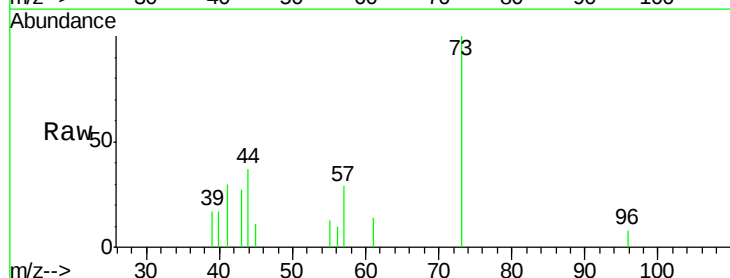
Tgt Ion: 73 Resp: 2803

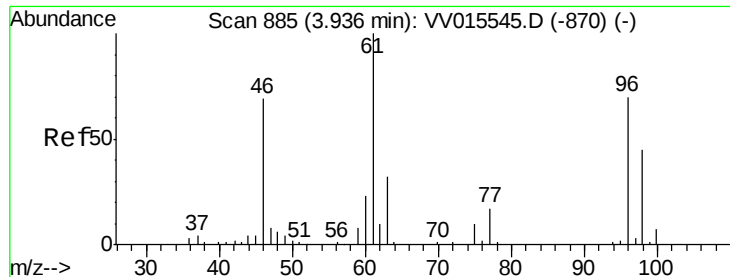
Ion Ratio Lower Upper

73 100

43 32.9 18.3 27.5#

57 19.7 18.4 27.6

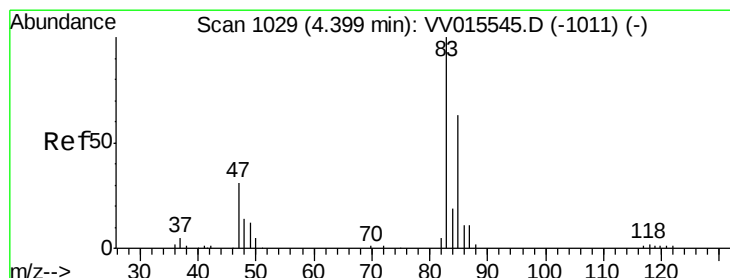
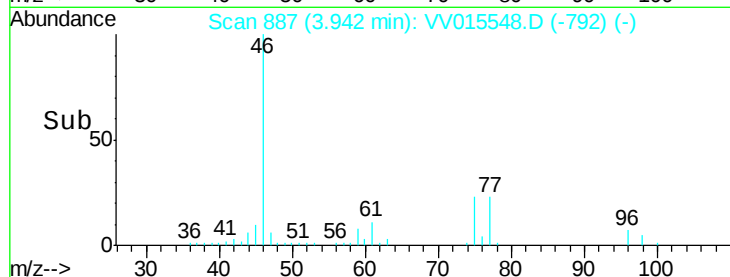
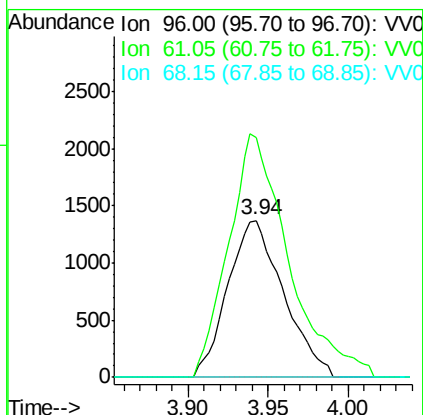
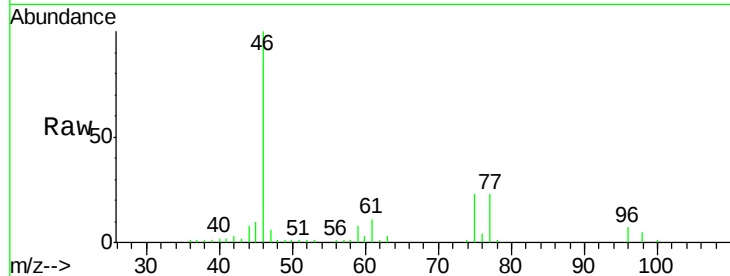




#22  
 cis-1,2-Dichloroethene  
 Concen: 0.456 ug/L  
 RT: 3.94 min Scan# 887  
 Delta R.T. 0.01 min  
 Lab File: VV015548.D  
 Acq: 17 Apr 2020 12:29

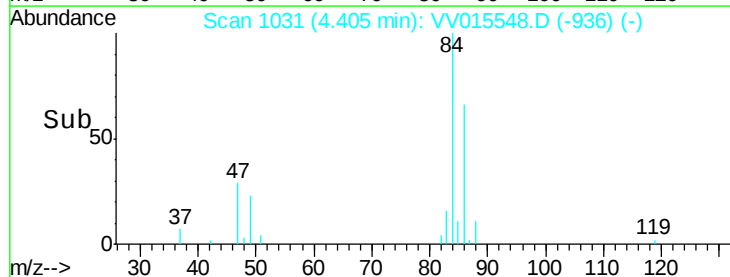
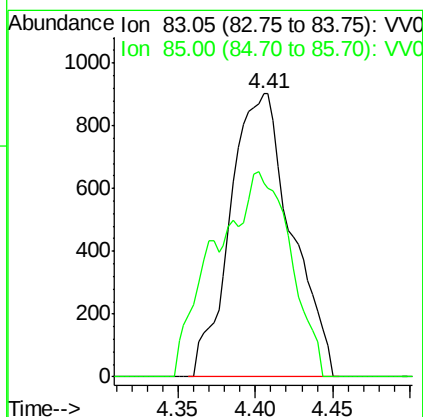
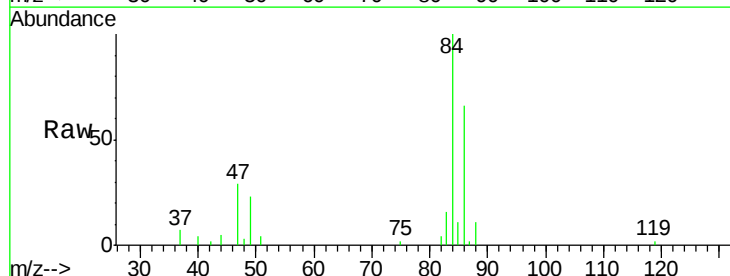
Instrument :  
 MSVOA\_V  
 ClientSampleID :  
 BFRR0DL

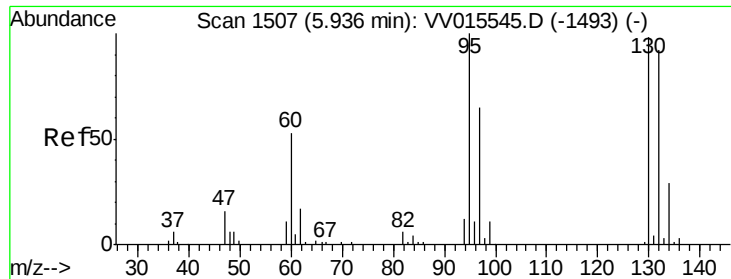
Tot Ion: 96 Resp: 3266  
 Ion Ratio Lower Upper  
 96 100  
 61 152.9 100.0 185.8  
 68 0.0 0.0 0.0



#25  
 Chloroform  
 Concen: 0.186 ug/L  
 RT: 4.41 min Scan# 1031  
 Delta R.T. 0.01 min  
 Lab File: VV015548.D  
 Acq: 17 Apr 2020 12:29

Tgt Ion: 83 Resp: 2482  
 Ion Ratio Lower Upper  
 83 100  
 85 68.3 45.9 85.3

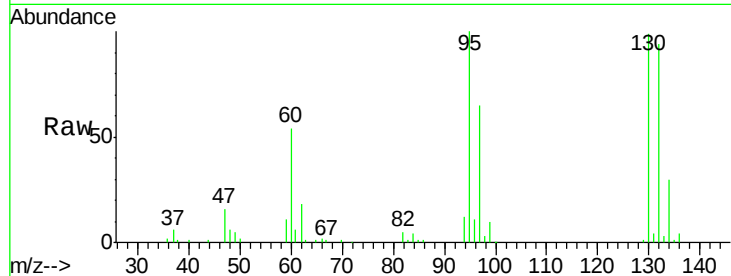




#34  
 Trichloroethene  
 Concen: 10.844 ug/L  
 RT: 5.94 min Scan# 1508  
 Delta R.T. 0.00 min  
 Lab File: VV015548.D  
 Acq: 17 Apr 2020 12:29

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFRR0DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 80417 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 65.3  | 45.4  | 84.4  |
| 132      | 93.7  | 64.8  | 120.4 |
| 130      | 98.8  | 67.4  | 125.2 |

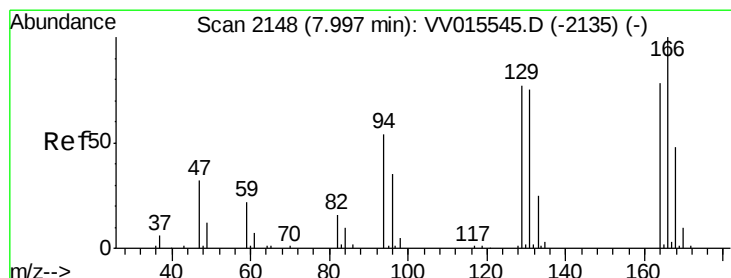
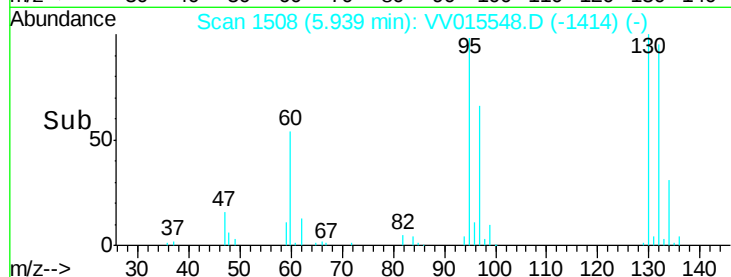
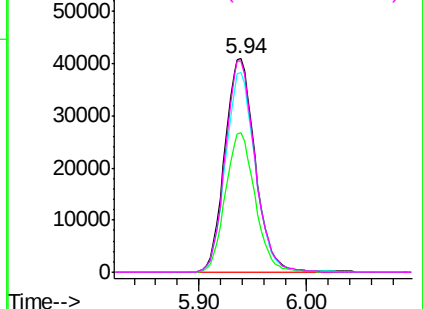


Abundance Ion 95.00 (94.70 to 95.70): VV015548.D (-1507) (-)

Ion 96.95 (96.65 to 97.65): VV015548.D (-1507) (-)

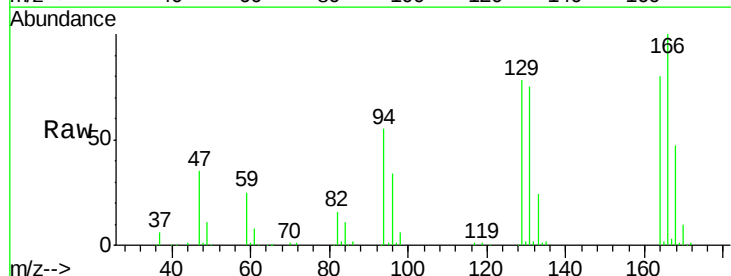
Ion 131.95 (131.65 to 132.65): VV015548.D (-1507) (-)

Ion 129.95 (129.65 to 130.65): VV015548.D (-1507) (-)



#47  
 Tetrachloroethene  
 Concen: 11.963 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. -0.00 min  
 Lab File: VV015548.D  
 Acq: 17 Apr 2020 12:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 65727 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 97.2  | 70.6  | 131.0 |
| 131      | 94.2  | 68.3  | 126.8 |
| 166      | 125.3 | 88.3  | 163.9 |



Abundance Ion 163.90 (163.60 to 164.60): VV015548.D (-2148) (-)

Ion 128.95 (128.65 to 129.65): VV015548.D (-2148) (-)

Ion 130.95 (130.65 to 131.65): VV015548.D (-2148) (-)

Ion 165.90 (165.60 to 166.60): VV015548.D (-2148) (-)

