

Data File : VV011150.D  
Acq On : 30 May 2019 21:56  
Operator : SY/MD  
Sample : K3083-02  
Misc : 4.76G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51F4

Quant Time: May 31 02:47:36 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM053019S.M  
Quant Title : VOC Analysis  
QLast Update : Fri May 31 01:43:46 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 290755   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 265661   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 91363    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 89210    | 22.68    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 90.72%   |
| 7) Chloroethane-d5             | 1.57   | 69    | 76508    | 25.30    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 101.20%  |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 135944   | 16.83    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 67.32%   |
| 20) 2-Butanone-d5              | 3.94   | 46    | 98875    | 68.77    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 137.54%# |
| 24) Chloroform-d               | 4.40   | 84    | 196604   | 27.66    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 110.64%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 133349   | 28.79    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 115.16%  |
| 29) Benzene-d6                 | 5.09   | 84    | 387769   | 26.88    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 107.52%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 131981   | 28.55    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 114.20%  |
| 37) Toluene-d8                 | 7.36   | 98    | 340139   | 24.99    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 99.96%   |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 49194    | 23.52    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 94.08%   |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 69618    | 66.26    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 132.52%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 120284   | 28.87    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 115.48%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 88153    | 25.79    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 103.16%  |

#### Target Compounds

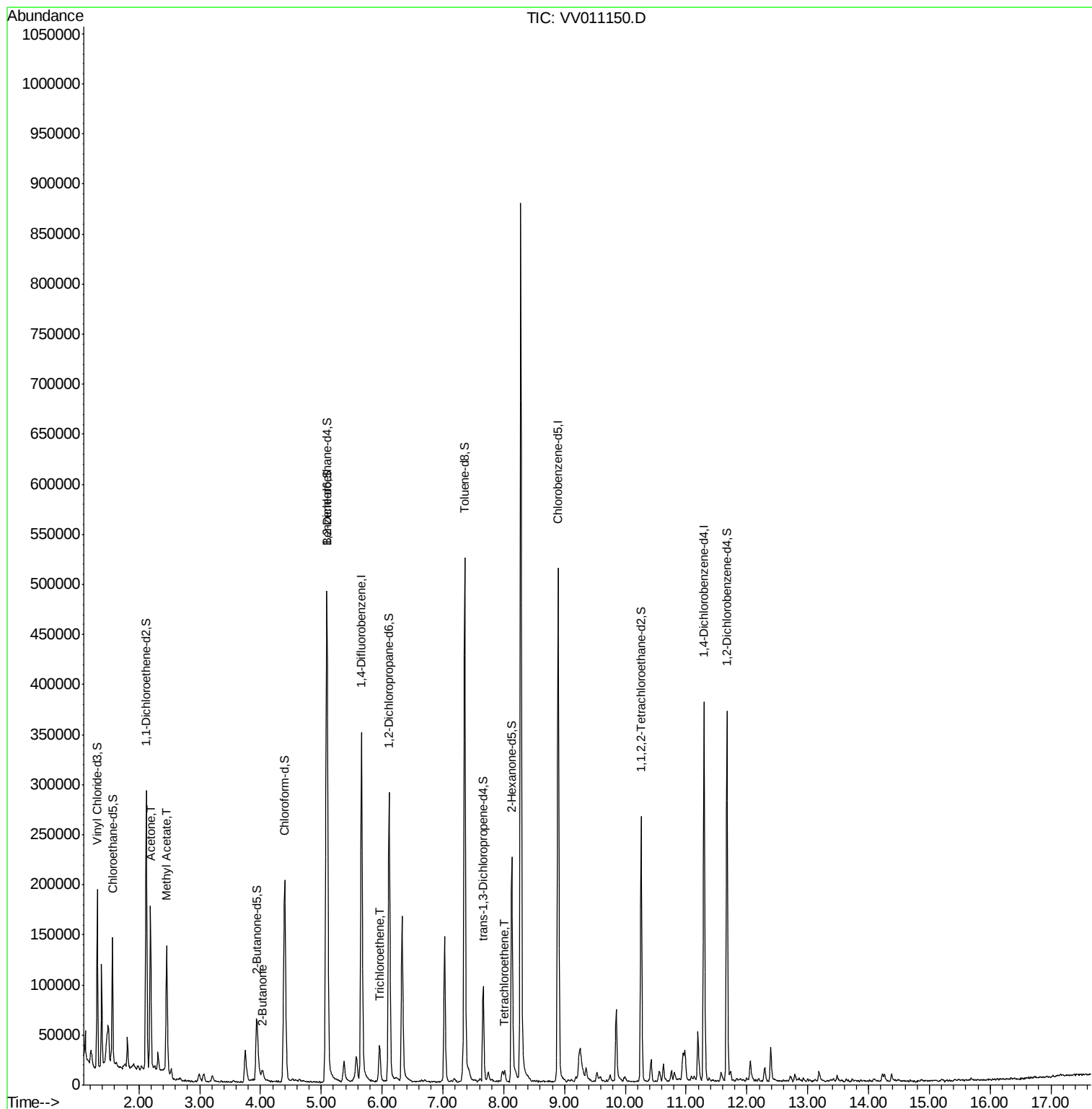
|                       |      |     |        |        |      | Qvalue |
|-----------------------|------|-----|--------|--------|------|--------|
| 13) Acetone           | 2.19 | 43  | 153674 | 91.873 | ug/L | 99     |
| 15) Methyl Acetate    | 2.46 | 43  | 129830 | 51.583 | ug/L | 99     |
| 21) 2-Butanone        | 4.04 | 43  | 14990  | 7.639  | ug/L | 89     |
| 35) Trichloroethene   | 5.96 | 95  | 11087  | 2.685  | ug/L | 96     |
| 47) Tetrachloroethene | 8.02 | 164 | 2088   | 0.682  | ug/L | 87     |

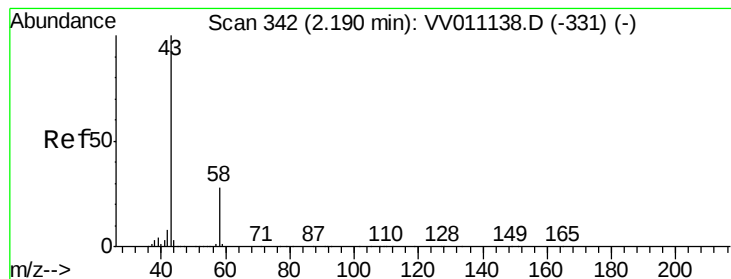
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 91.873 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

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MSVOA\_V

ClientSampleId :

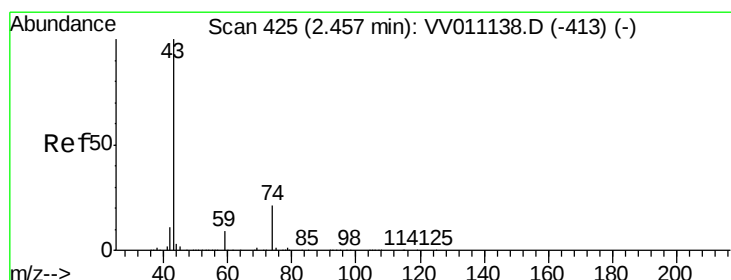
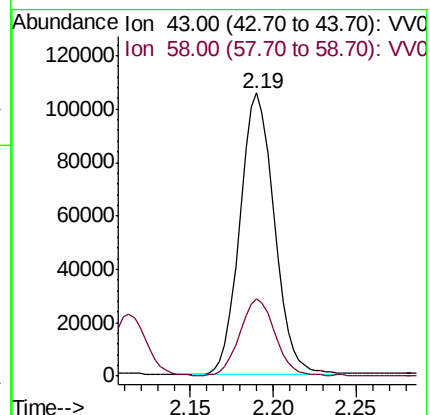
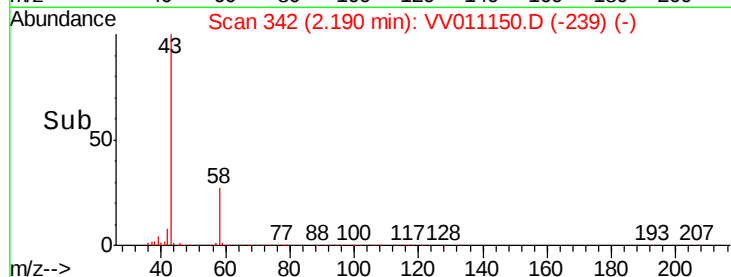
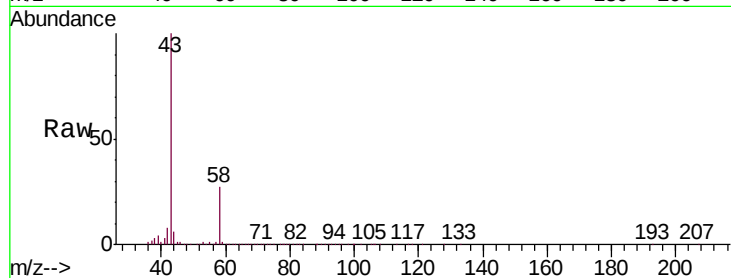
A51F4

Tgt Ion: 43 Resp: 153674

Ion Ratio Lower Upper

43 100

58 27.6 0.0 53.8



#15

Methyl Acetate

Concen: 51.583 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV011150.D

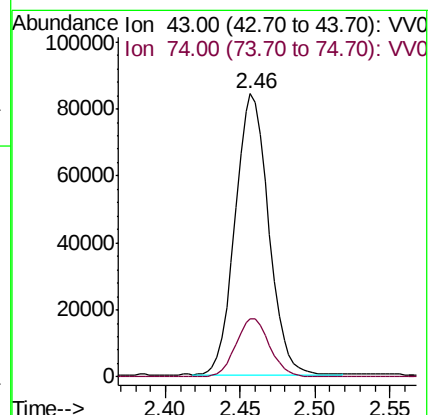
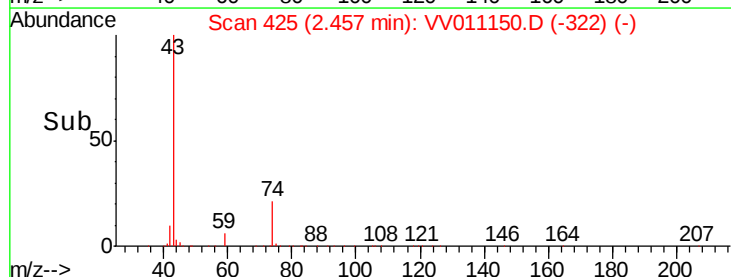
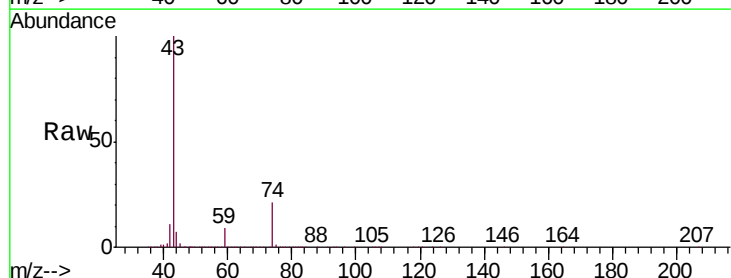
Acq: 30 May 2019 21:56

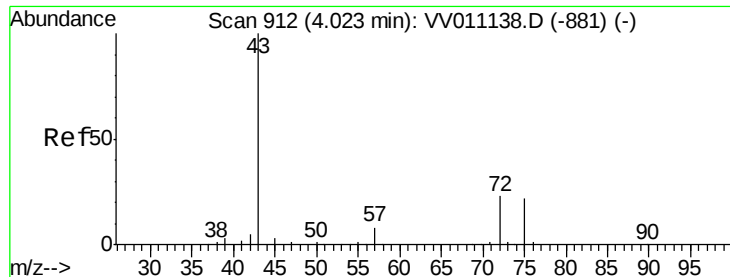
Tgt Ion: 43 Resp: 129830

Ion Ratio Lower Upper

43 100

74 20.6 16.2 24.4





#21

2-Butanone

Concen: 7.639 ug/L

RT: 4.04 min Scan# 916

Delta R.T. 0.01 min

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Instrument :

MSVOA\_V

ClientSampleId :

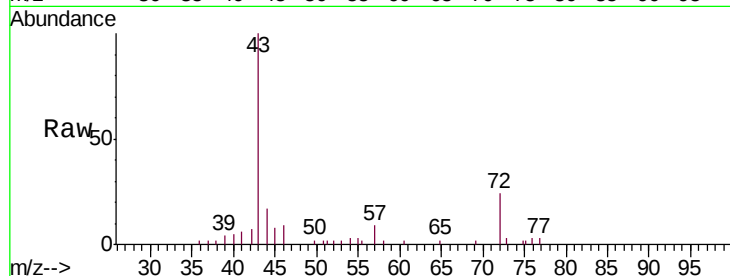
A51F4

Tgt Ion: 43 Resp: 14990

Ion Ratio Lower Upper

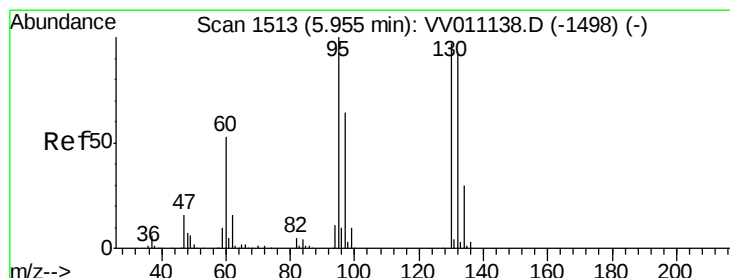
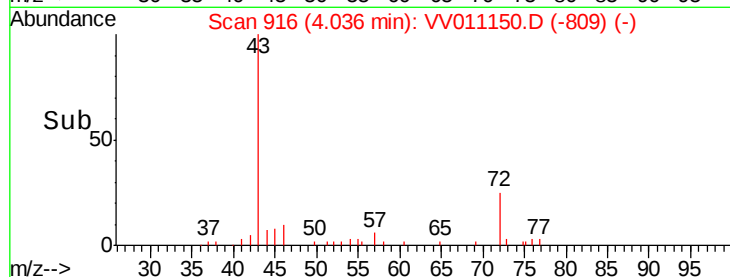
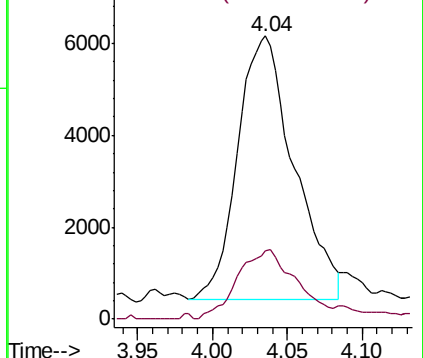
43 100

72 27.6 11.1 33.3



Abundance Ion 43.00 (42.70 to 43.70): VV011138.D (-881) (-)

Ion 72.00 (71.70 to 72.70): VV011138.D (-881) (-)



#35

Trichloroethene

Concen: 2.685 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV011150.D

Acq: 30 May 2019 21:56

Tgt Ion: 95 Resp: 11087

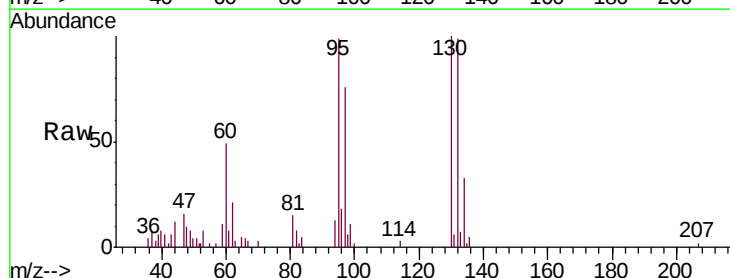
Ion Ratio Lower Upper

95 100

97 72.0 44.4 82.5

132 91.8 66.0 122.6

130 96.9 67.4 125.2

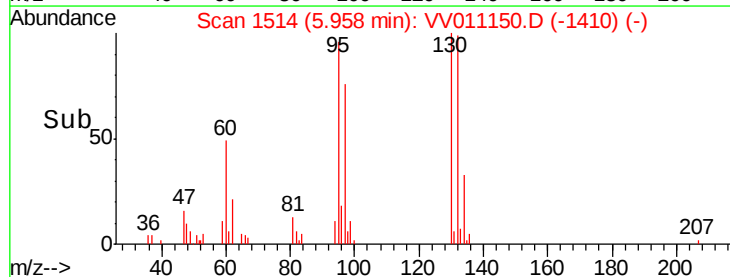
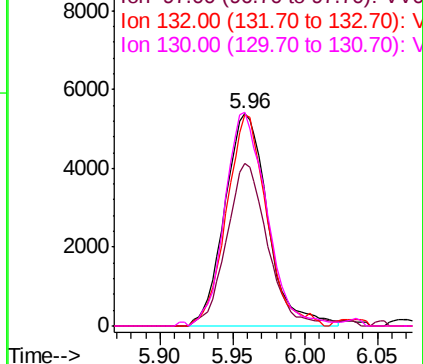


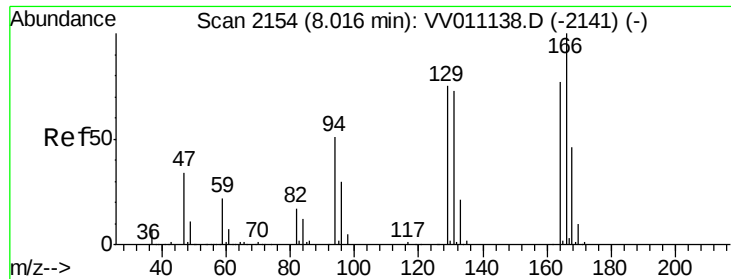
Abundance Ion 95.00 (94.70 to 95.70): VV011138.D (-1498) (-)

Ion 97.00 (96.70 to 97.70): VV011138.D (-1498) (-)

Ion 132.00 (131.70 to 132.70): VV011138.D (-1498) (-)

Ion 130.00 (129.70 to 130.70): VV011138.D (-1498) (-)





#47  
Tetrachloroethene  
Concen: 0.682 ug/L  
RT: 8.02 min Scan# 2154  
Delta R.T. 0.00 min  
Lab File: VV011150.D  
Acq: 30 May 2019 21:56

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51F4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 2088  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 115.5 | 69.1  | 128.3 |
| 131      | 90.1  | 65.5  | 121.6 |
| 166      | 112.3 | 93.2  | 173.0 |

