

Data File : VV009614.D  
Acq On : 12 Mar 2019 19:28  
Operator : SY/MD  
Sample : K1789-19  
Misc : 5.76g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0Q2

Quant Time: Mar 13 02:23:33 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Mar 13 02:20:07 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 160507   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 159273   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 70902    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 40231    | 42.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 84.70%  |
| 7) Chloroethane-d5             | 1.55    | 69    | 25714    | 26.01    | ug/L | -0.03   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 52.02%# |
| 11) 1,1-Dichloroethene-d2      | 2.11    | 63    | 88051    | 35.13    | ug/L | -0.02   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.26%  |
| 21) 2-Butanone-d5              | 3.94    | 46    | 64190    | 91.44    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 91.44%  |
| 24) Chloroform-d               | 4.40    | 84    | 97785    | 47.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.24%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 66095    | 48.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.28%  |
| 32) Benzene-d6                 | 5.09    | 84    | 198177   | 47.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.70%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 60873    | 49.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.30%  |
| 41) Toluene-d8                 | 7.36    | 98    | 190396   | 47.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.38%  |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 29936    | 46.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.60%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 53323    | 98.45    | ug/L | 0.01    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 98.45%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 95415    | 47.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.92%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 71608    | 47.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.74%  |

#### Target Compounds

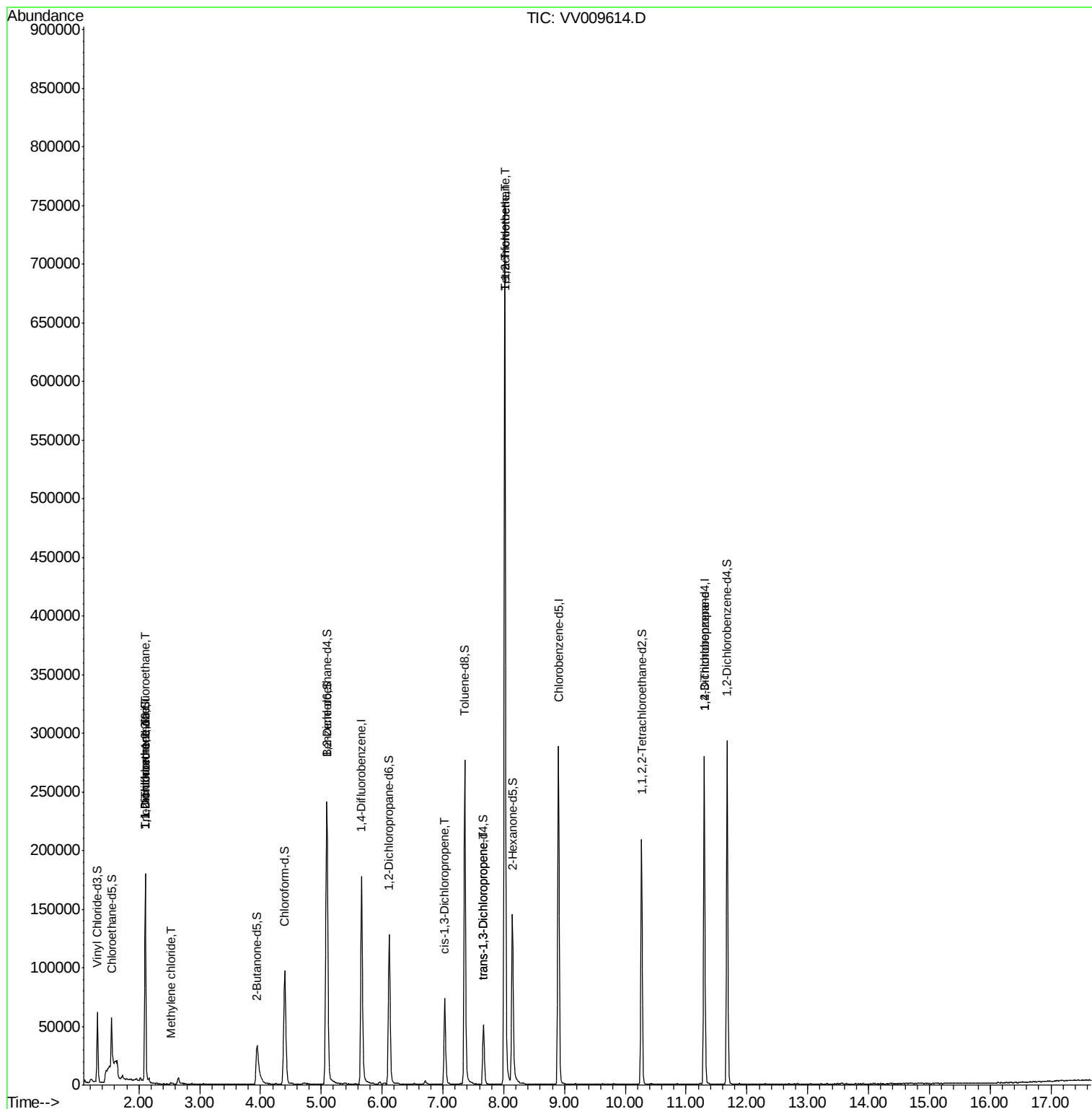
|                                |       |     |        |         |        | Qvalue |
|--------------------------------|-------|-----|--------|---------|--------|--------|
| 9) Trichlorofluoromethane      | 2.10  | 101 | 861    | 0.393   | ug/L # | 27     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.10  | 101 | 861    | 0.708   | ug/L # | 28     |
| 12) 1,1-Dichloroethene         | 2.11  | 96  | 869    | 0.836   | ug/L # | 1      |
| 16) Methylene chloride         | 2.53  | 84  | 776    | 0.767   | ug/L   | 77     |
| 39) cis-1,3-Dichloropropene    | 7.04  | 75  | 2233   | 1.375   | ug/L # | 62     |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75  | 1671   | 1.096   | ug/L # | 75     |
| 45) 1,1,2-Trichloroethane      | 8.02  | 97  | 1565   | 1.489   | ug/L # | 30     |
| 46) Tetrachloroethene          | 8.02  | 164 | 155365 | 185.225 | ug/L   | 99     |
| 59) 1,2,3-Trichloropropane     | 11.30 | 75  | 9953   | 7.205   | ug/L   | 93     |

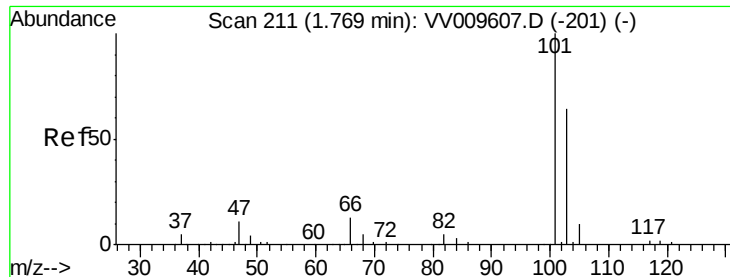
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Wed Mar 13 02:20:07 2019  
Response via : Initial Calibration





#9

Trichlorofluoromethane

Concen: 0.393 ug/L

RT: 2.10 min Scan# 315

Delta R.T. 0.33 min

Lab File: VV009614.D

Acq: 12 Mar 2019 19:28

Instrument :

MSVOA\_V

ClientSampleId :

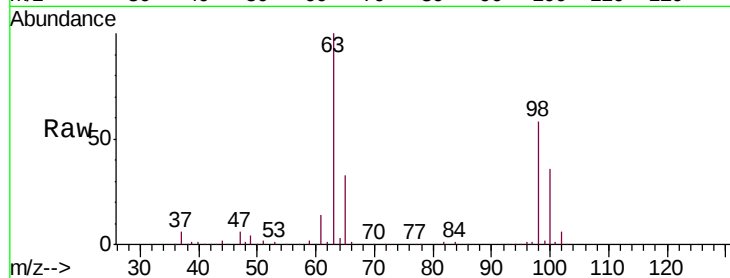
BF0Q2

Tgt Ion:101 Resp: 861

Ion Ratio Lower Upper

101 100

103 7.0 51.8 77.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

2.10

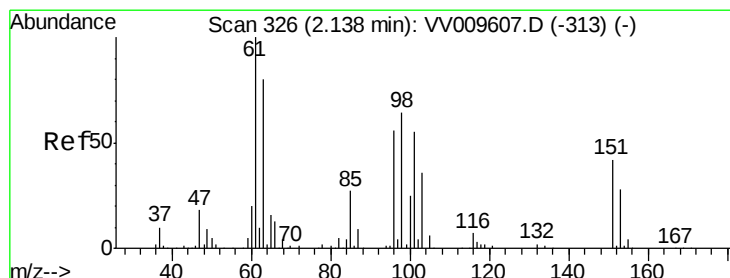
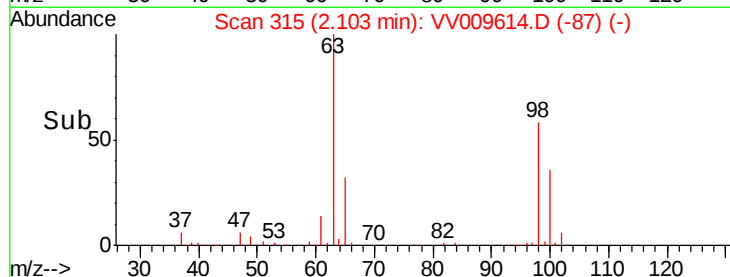
600

400

200

0

Time-->



#10

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

Concen: 0.708 ug/L

RT: 2.10 min Scan# 315

Delta R.T. -0.04 min

Lab File: VV009614.D

Acq: 12 Mar 2019 19:28

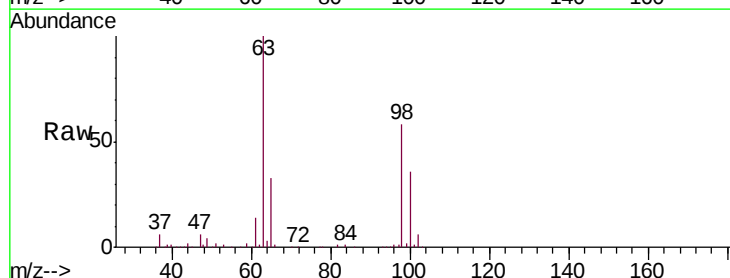
Tgt Ion:101 Resp: 861

Ion Ratio Lower Upper

101 100

85 15.7 37.8 56.6#

151 0.0 59.6 89.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V

2.10

800

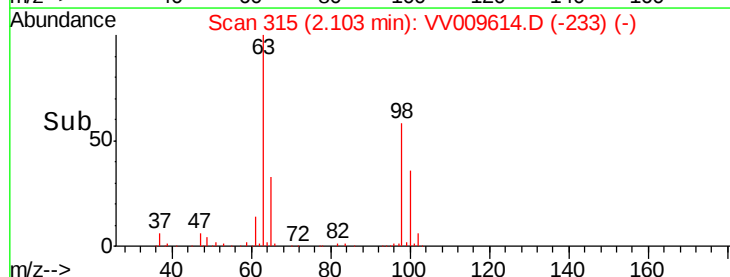
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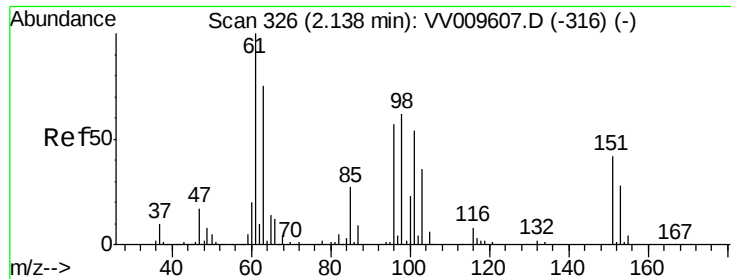
400

200

0

Time-->

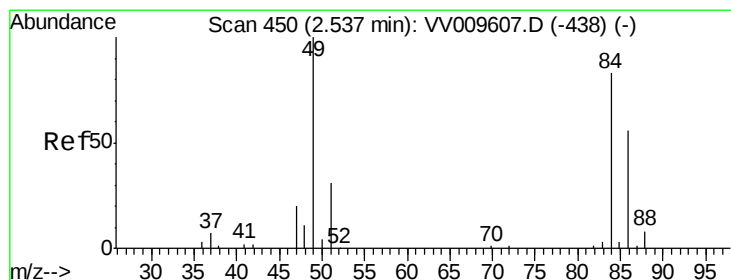
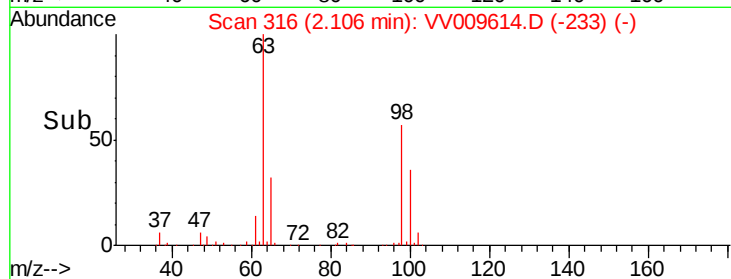
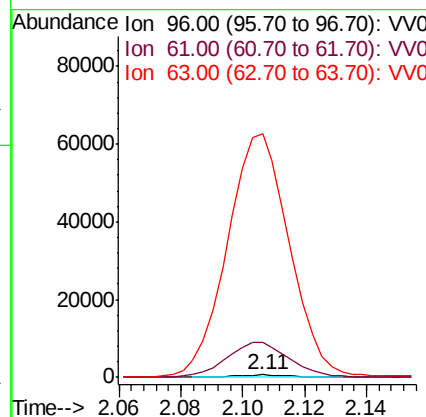
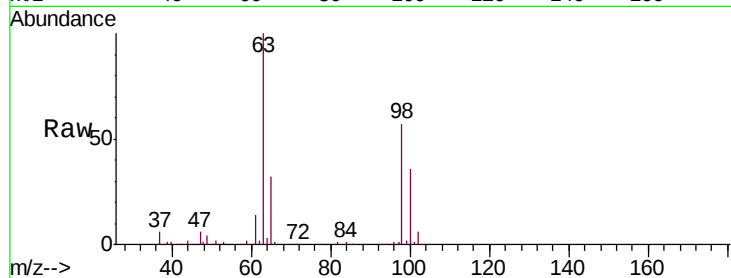




#12  
 1,1-Dichloroethene  
 Concen: 0.836 ug/L  
 RT: 2.11 min Scan# 316  
 Delta R.T. -0.03 min  
 Lab File: VV009614.D  
 Acq: 12 Mar 2019 19:28

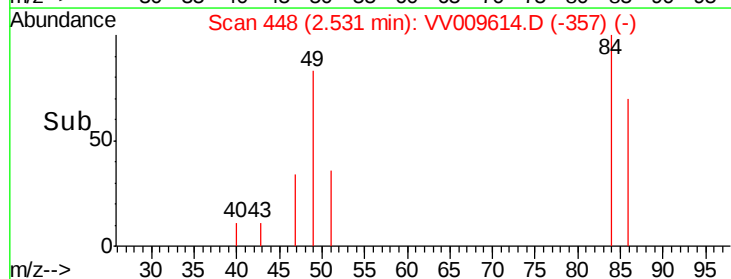
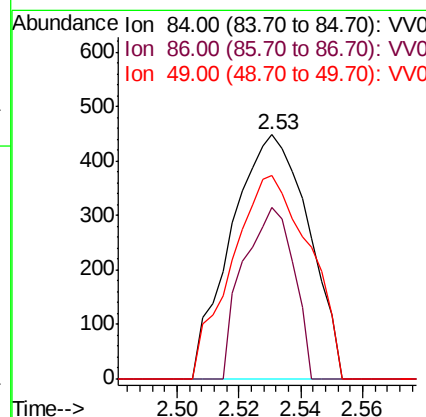
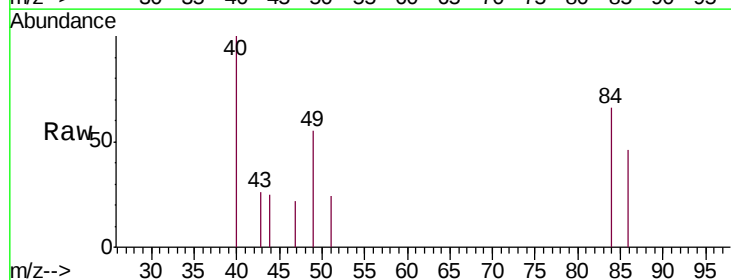
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 BF0Q2

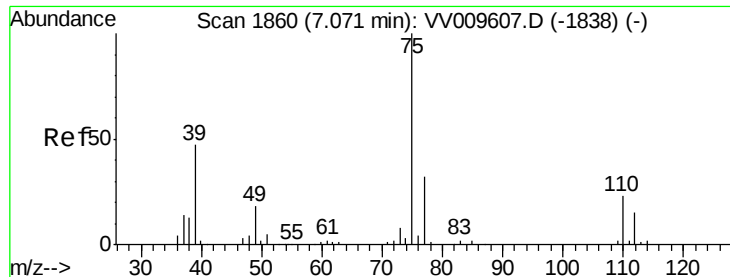
Tgt Ion: 96 Resp: 869  
 Ion Ratio Lower Upper  
 96 100  
 61 1475.5 122.1 226.7#  
 63 10319.6 107.6 199.8#



#16  
 Methylene chloride  
 Concen: 0.767 ug/L  
 RT: 2.53 min Scan# 448  
 Delta R.T. -0.01 min  
 Lab File: VV009614.D  
 Acq: 12 Mar 2019 19:28

Tgt Ion: 84 Resp: 776  
 Ion Ratio Lower Upper  
 84 100  
 86 70.1 44.0 81.6  
 49 83.3 82.0 152.4





#39

cis-1,3-Dichloropropene

Concen: 1.375 ug/L

RT: 7.04 min Scan# 1849

Delta R.T. -0.04 min

Lab File: VV009614.D

Acq: 12 Mar 2019 19:28

Instrument :

MSVOA\_V

ClientSampleId :

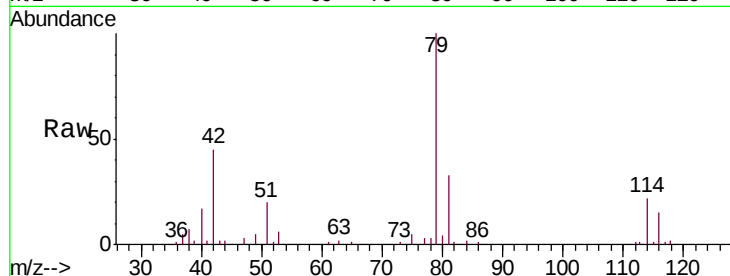
BF0Q2

Tgt Ion: 75 Resp: 2233

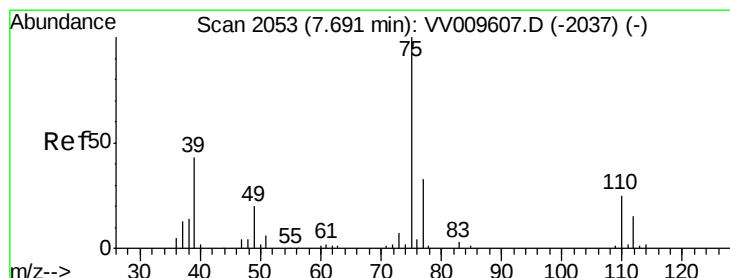
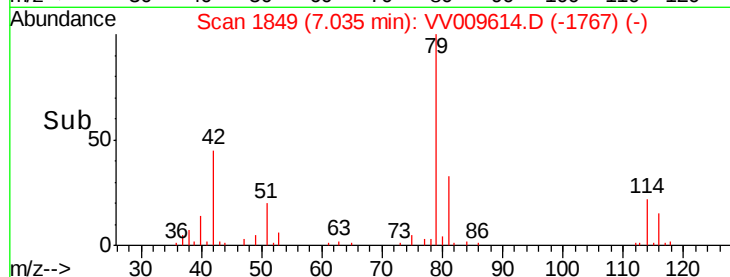
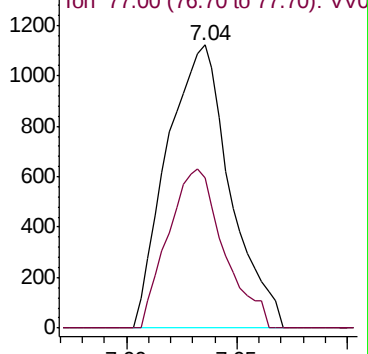
Ion Ratio Lower Upper

75 100

77 53.0 22.3 41.5#



Abundance Ion 75.00 (74.70 to 75.70): VV009614.D (-1767) (-)



#44

trans-1,3-Dichloropropene

Concen: 1.096 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV009614.D

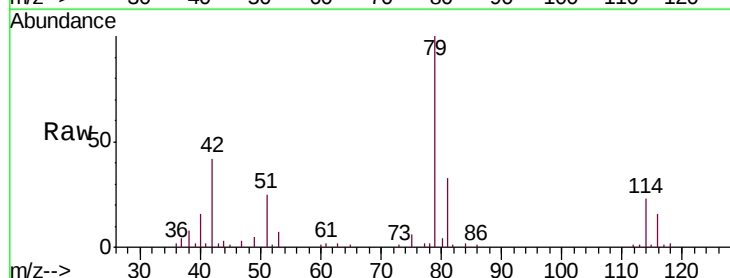
Acq: 12 Mar 2019 19:28

Tgt Ion: 75 Resp: 1671

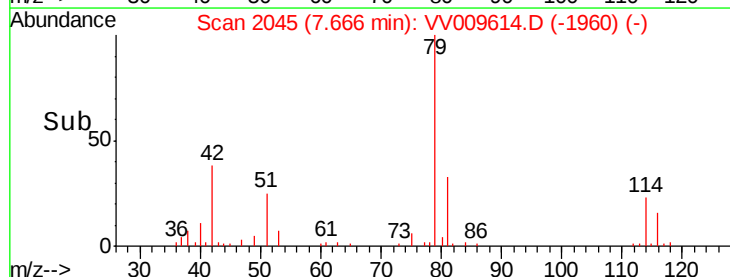
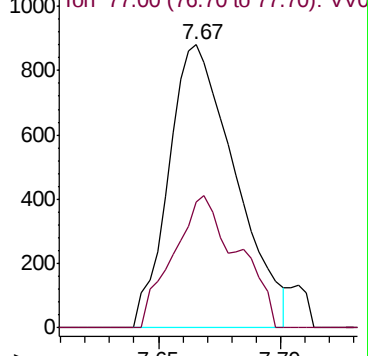
Ion Ratio Lower Upper

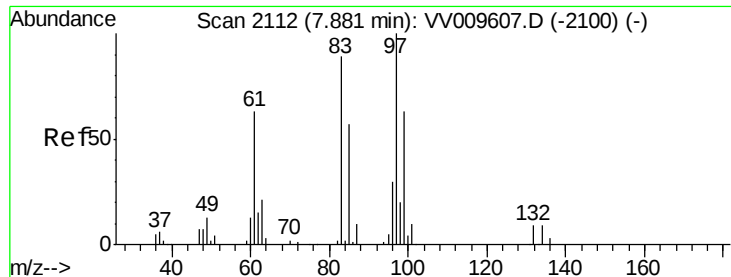
75 100

77 44.7 21.6 40.2#



Abundance Ion 75.00 (74.70 to 75.70): VV009614.D (-1960) (-)

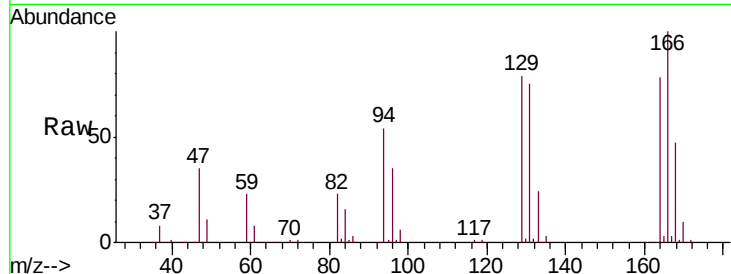




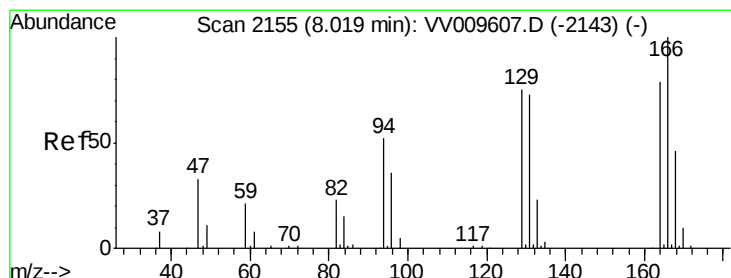
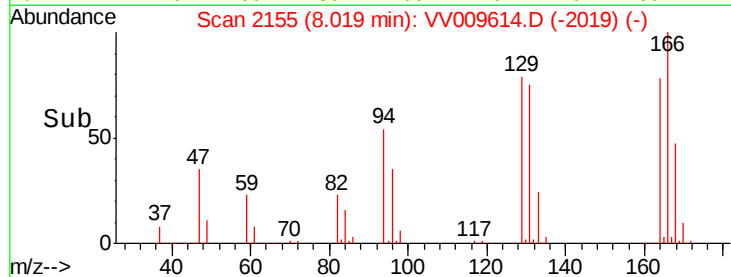
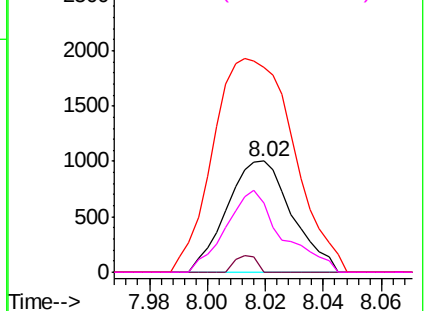
#45  
 1,1,2-Trichloroethane  
 Concen: 1.489 ug/L  
 RT: 8.02 min Scan# 2155  
 Delta R.T. 0.14 min  
 Lab File: VV009614.D  
 Acq: 12 Mar 2019 19:28

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF0Q2

Tgt Ion: 97 Resp: 1565  
 Ion Ratio Lower Upper  
 97 100  
 99 0.0 44.0 81.8#  
 83 185.2 61.5 114.3#  
 85 62.6 41.0 76.2

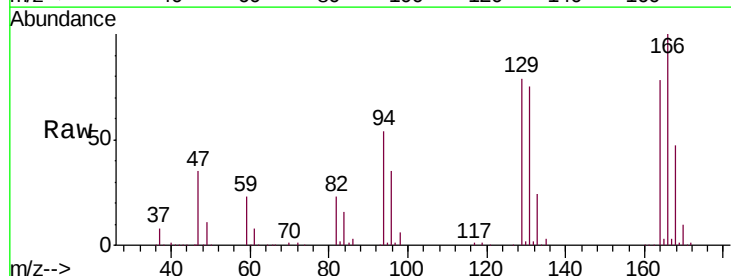


Abundance Ion 97.00 (96.70 to 97.70): VV0  
 Ion 99.00 (98.70 to 99.70): VV0  
 Ion 83.00 (82.70 to 83.70): VV0  
 Ion 85.00 (84.70 to 85.70): VV0

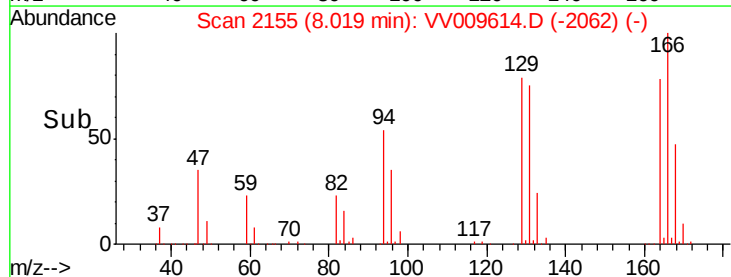
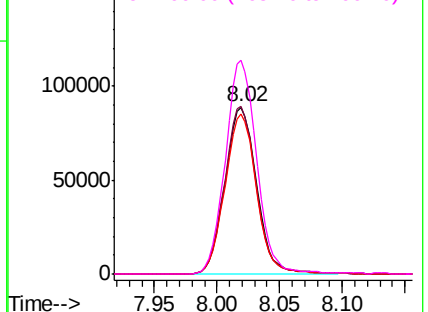


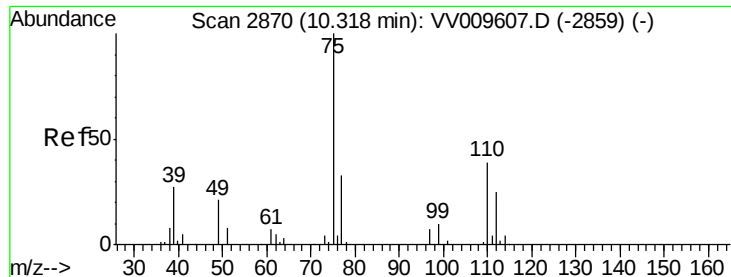
#46  
 Tetrachloroethene  
 Concen: 185.225 ug/L  
 RT: 8.02 min Scan# 2155  
 Delta R.T. 0.00 min  
 Lab File: VV009614.D  
 Acq: 12 Mar 2019 19:28

Tgt Ion: 164 Resp: 155365  
 Ion Ratio Lower Upper  
 164 100  
 129 100.8 70.8 131.6  
 131 96.0 68.3 126.9  
 166 128.2 89.5 166.3



Abundance Ion 164.00 (163.70 to 164.70): V  
 Ion 129.00 (128.70 to 129.70): V  
 Ion 131.00 (130.70 to 131.70): V  
 Ion 166.00 (165.70 to 166.70): V





#59

1,2,3-Trichloropropane

Concen: 7.205 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.98 min

Lab File: VV009614.D

Acq: 12 Mar 2019 19:28

Instrument :

MSVOA\_V

ClientSampleId :

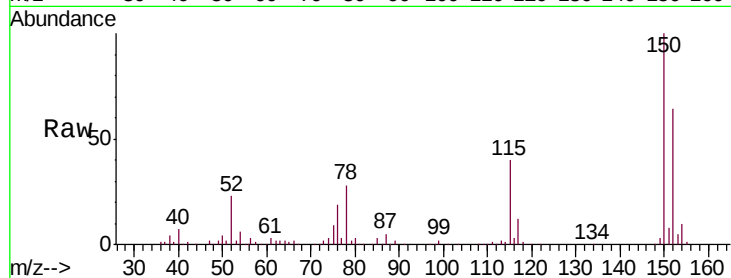
BF0Q2

Tgt Ion: 75 Resp: 9953

Ion Ratio Lower Upper

75 100

77 37.5 26.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

