

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV032619\  
 Data File : VV009909.D  
 Acq On : 26 Mar 2019 22:05  
 Operator : SY/MD  
 Sample : K2101-02  
 Misc : 5.72G/10mL/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF0K0

Manual Integrations  
 APPROVED

MMDadoda  
 3/27/2019 5:43:07 PM

Quant Time: Mar 27 04:21:05 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM032619S.M

Quant Title : VOC Analysis

QLast Update : Wed Mar 27 01:42:27 2019

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 157966   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 156498   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 64170    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 82736    | 25.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 103.24% |
| 7) Chloroethane-d5             | 1.57   | 69    | 92567    | 26.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 106.96% |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 176040   | 20.08    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 80.32%  |
| 20) 2-Butanone-d5              | 3.93   | 46    | 33478m   | 56.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 112.08% |
| 24) Chloroform-d               | 4.40   | 84    | 75248    | 18.70    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 74.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 68557    | 28.31    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 113.24% |
| 29) Benzene-d6                 | 5.10   | 84    | 237082   | 28.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 115.40% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 72019    | 29.95    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 119.80% |
| 37) Toluene-d8                 | 7.36   | 98    | 208525   | 26.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 107.24% |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 23777    | 24.17    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 96.68%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 23610    | 52.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 105.22% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 58881    | 24.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 98.92%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 69338    | 28.38    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 113.52% |

#### Target Compounds

|                              |      |    |       |             | Qvalue |
|------------------------------|------|----|-------|-------------|--------|
| 13) Acetone                  | 2.18 | 43 | 8327  | 9.207 ug/L  | 96     |
| 16) Methylene chloride       | 2.53 | 84 | 3382  | 1.300 ug/L  | 92     |
| 18) trans-1,2-Dichloroethene | 2.79 | 96 | 4447  | 2.149 ug/L  | 91     |
| 22) cis-1,2-Dichloroethene   | 3.96 | 96 | 33443 | 14.633 ug/L | 95     |
| 25) Chloroform               | 4.43 | 83 | 41293 | 9.867 ug/L  | 95     |
| 35) Trichloroethene          | 5.97 | 95 | 2213m | 0.976 ug/L  |        |

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

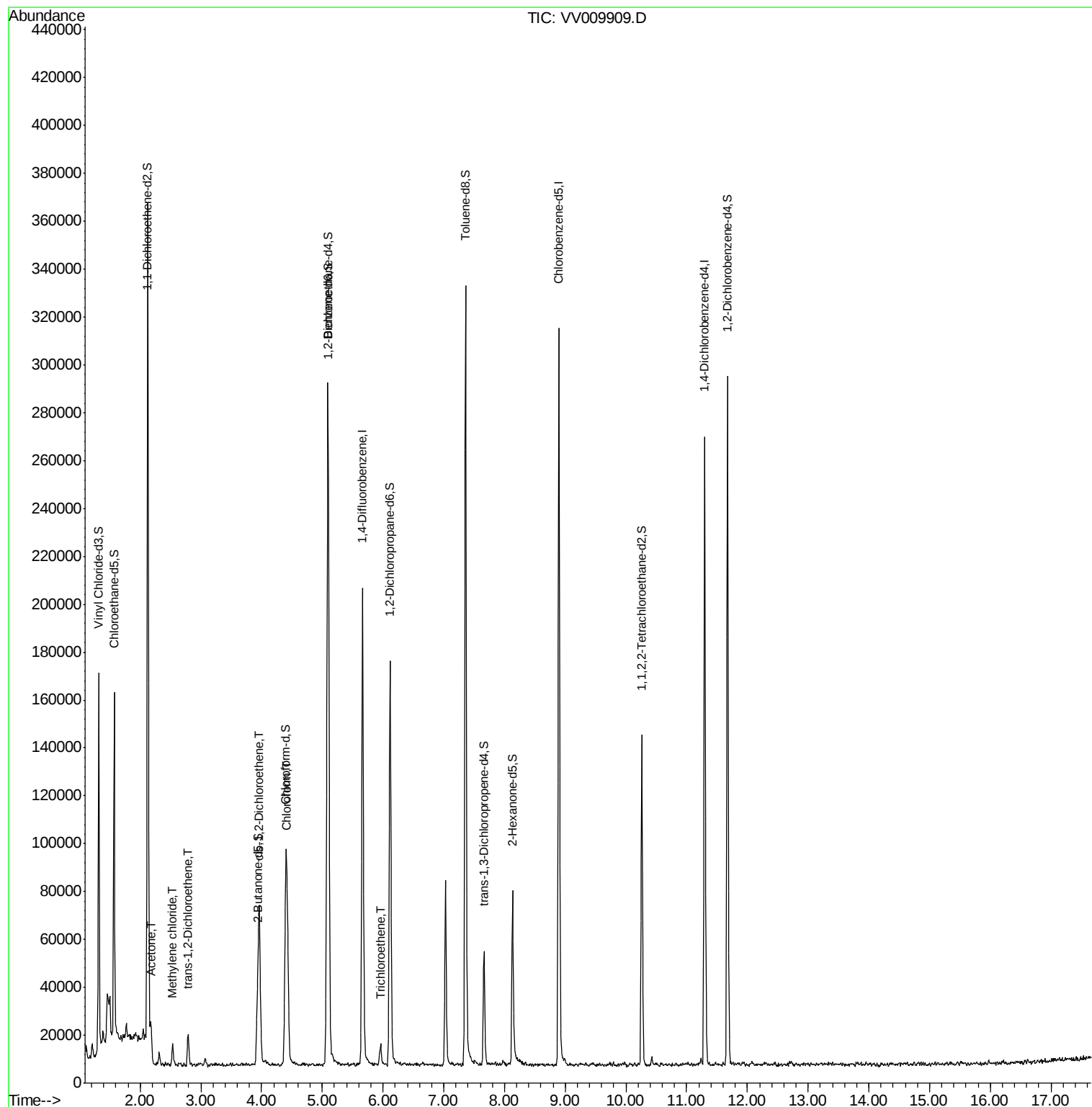
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV032619\  
Data File : VV009909.D  
Acq On : 26 Mar 2019 22:05  
Operator : SY/MD  
Sample : K2101-02  
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ALS Vial : 1 Sample Multiplier: 1

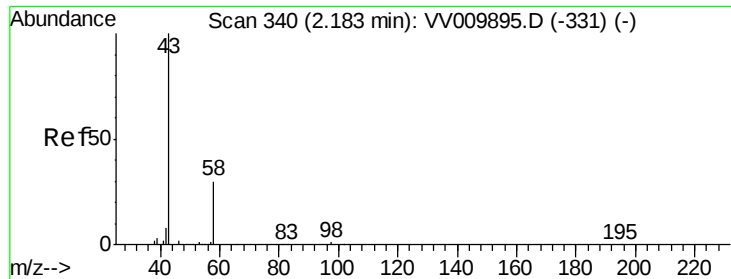
Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0K0

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Quant Time: Mar 27 04:21:05 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM032619S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Mar 27 01:42:27 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 9.207 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV009909.D

Acq: 26 Mar 2019 22:05

Instrument :

MSVOA\_V

ClientSampled :

BF0K0

Tgt Ion: 43 Resp: 8327

Ion Ratio Lower Upper

43 100

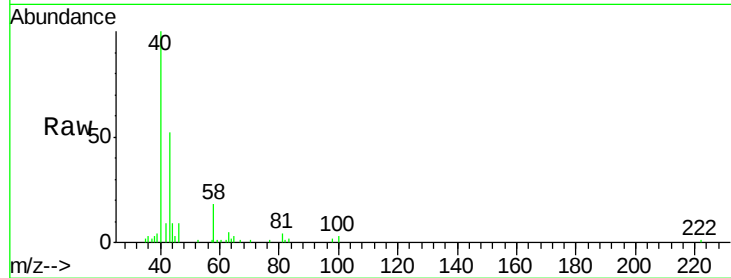
58 31.6 0.0 59.4

Manual Integrations

APPROVED

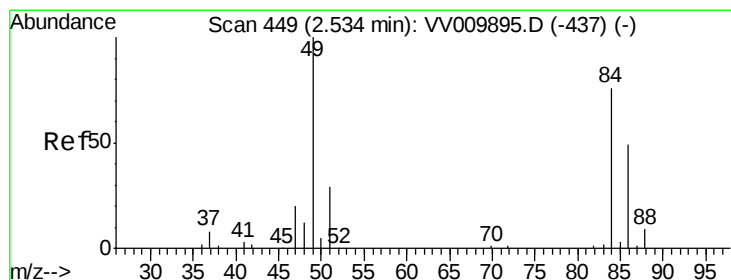
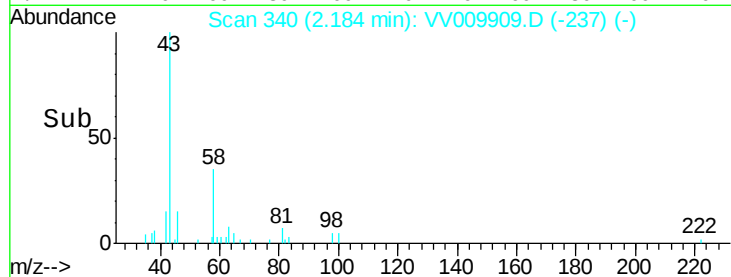
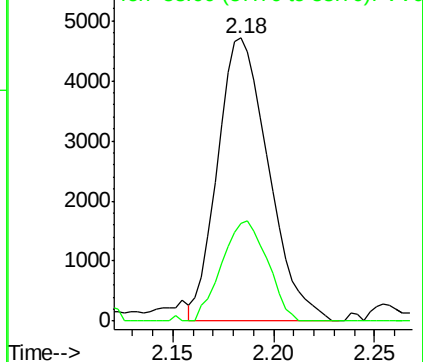
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Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#16

Methylene chloride

Concen: 1.300 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV009909.D

Acq: 26 Mar 2019 22:05

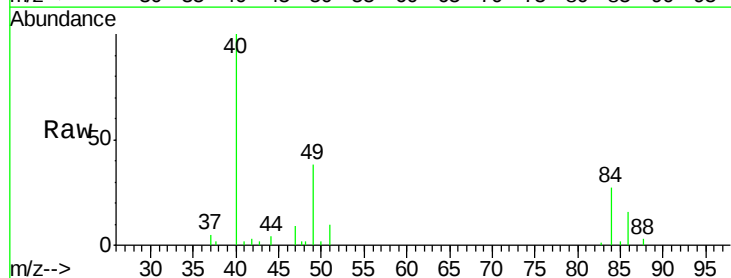
Tgt Ion: 84 Resp: 3382

Ion Ratio Lower Upper

84 100

49 140.8 90.4 167.8

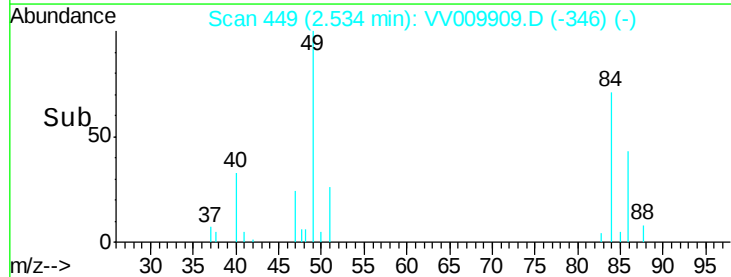
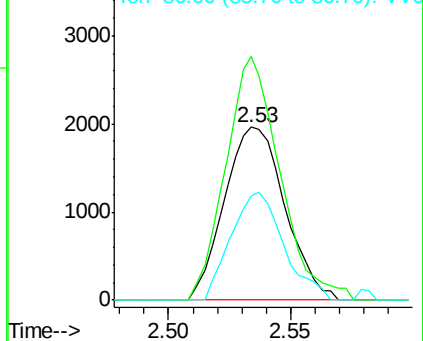
86 60.4 44.0 81.6

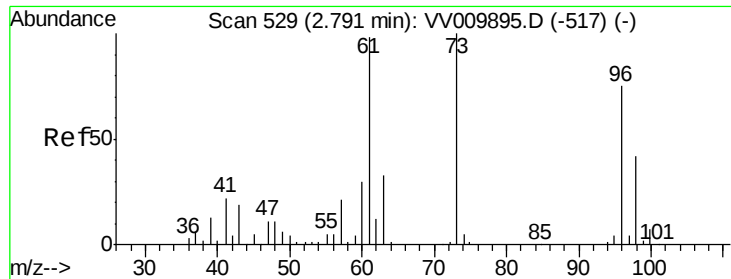


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0





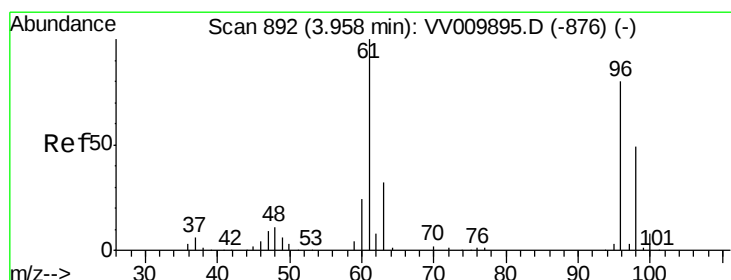
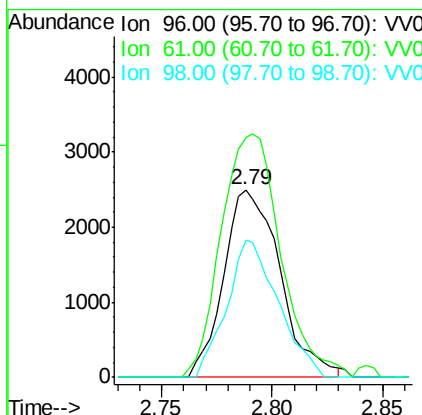
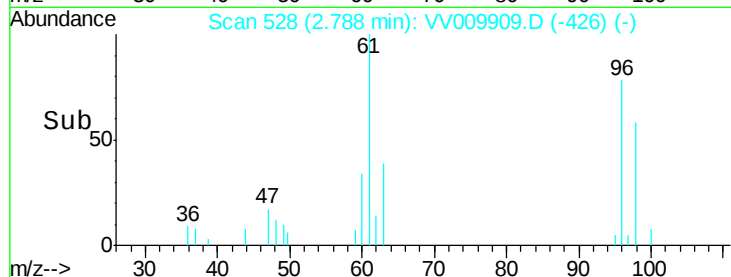
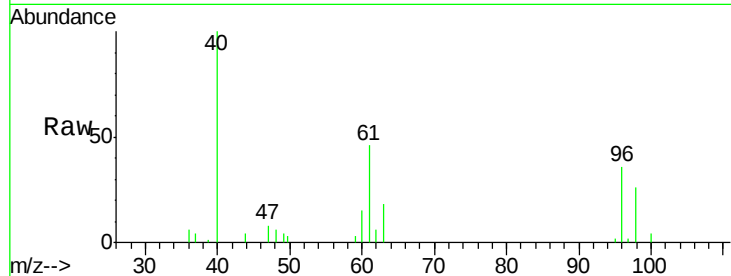
#18  
trans-1,2-Dichloroethene  
Concen: 2.149 ug/L  
RT: 2.79 min Scan# 528  
Delta R.T. -0.00 min  
Lab File: VV009909.D  
Acq: 26 Mar 2019 22:05

Instrument :  
MSVOA\_V  
ClientSampled :  
BF0K0

Tgt Ion: 96 Resp: 4447  
Ion Ratio Lower Upper  
96 100  
61 127.4 96.8 179.8  
98 73.5 46.1 85.7

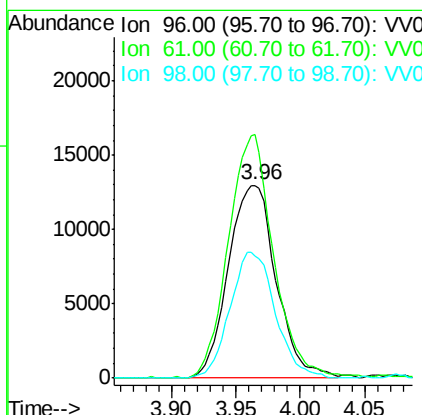
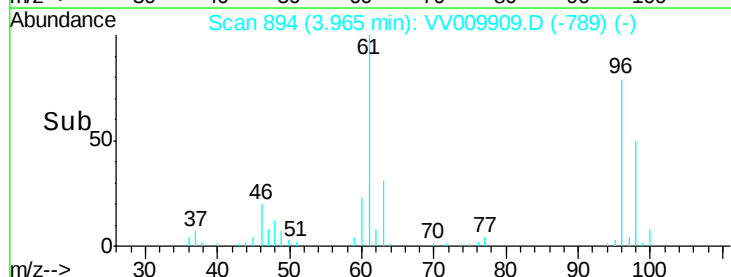
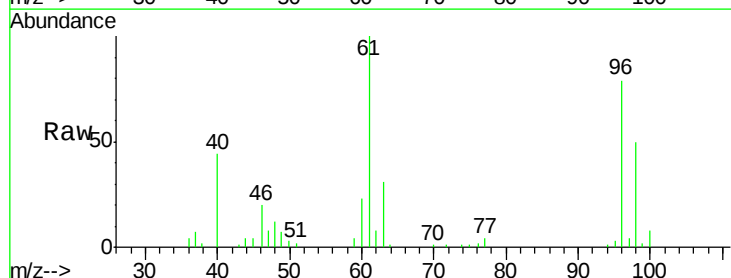
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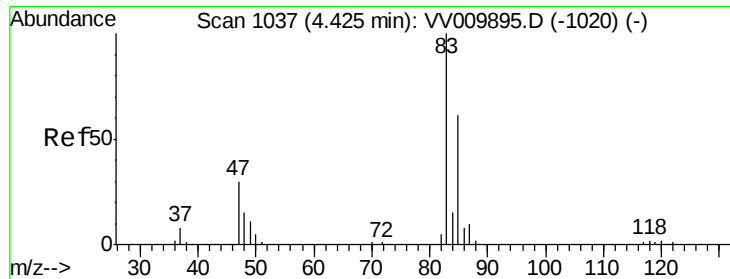
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#22  
cis-1,2-Dichloroethene  
Concen: 14.633 ug/L  
RT: 3.96 min Scan# 894  
Delta R.T. 0.01 min  
Lab File: VV009909.D  
Acq: 26 Mar 2019 22:05

Tgt Ion: 96 Resp: 33443  
Ion Ratio Lower Upper  
96 100  
61 126.1 91.4 169.8  
98 63.2 48.0 89.2





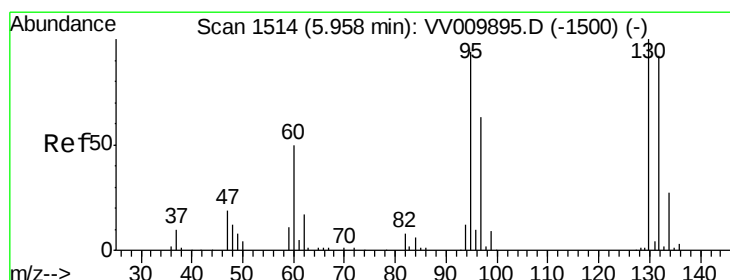
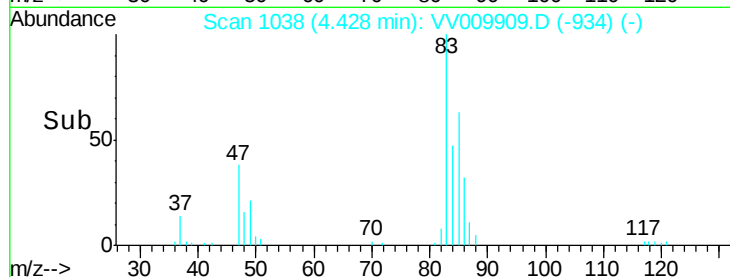
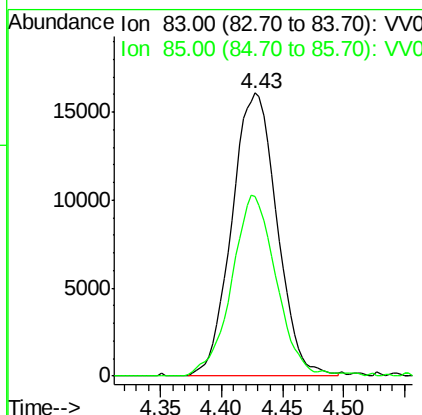
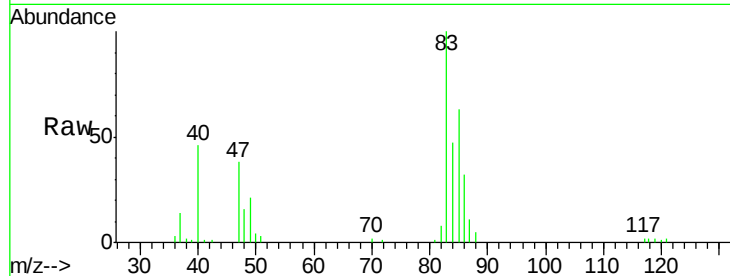
#25  
Chloroform  
Concen: 9.867 ug/L  
RT: 4.43 min Scan# 1038  
Delta R.T. 0.00 min  
Lab File: VV009909.D  
Acq: 26 Mar 2019 22:05

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0K0

Tgt Ion: 83 Resp: 41293  
Ion Ratio Lower Upper  
83 100  
85 62.2 46.1 85.7

Manual Integrations  
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#35  
Trichloroethene  
Concen: 0.976 ug/L m  
RT: 5.97 min Scan# 1517  
Delta R.T. 0.01 min  
Lab File: VV009909.D  
Acq: 26 Mar 2019 22:05

Tgt Ion: 95 Resp: 2213  
Ion Ratio Lower Upper  
95 100  
97 48.0 46.3 85.9  
132 8.0 69.3 128.7#  
130 85.8 69.5 129.1

