

Data File : VV009353.D  
Acq On : 25 Feb 2019 17:28  
Operator : SY/MD  
Sample : K1601-05  
Misc : 5.82G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF7X9

Quant Time: Feb 26 02:50:24 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM022019S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Feb 26 02:46:42 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 128123   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 122147   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 49611    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 38648    | 22.67    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 90.68%  |
| 7) Chloroethane-d5             | 1.56   | 69    | 40527    | 20.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 80.40%  |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 81094    | 19.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 77.40%  |
| 20) 2-Butanone-d5              | 3.93   | 46    | 22103    | 37.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 74.10%  |
| 24) Chloroform-d               | 4.40   | 84    | 58367    | 19.62    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 78.48%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 37792    | 23.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 93.72%  |
| 29) Benzene-d6                 | 5.10   | 84    | 144403   | 23.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 94.28%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 45466    | 25.22    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 100.88% |
| 37) Toluene-d8                 | 7.36   | 98    | 137300   | 23.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 94.20%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 18918    | 20.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 81.72%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 19930    | 39.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 79.48%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 41482    | 21.04    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 84.16%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 45624    | 25.04    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 100.16% |

#### Target Compounds

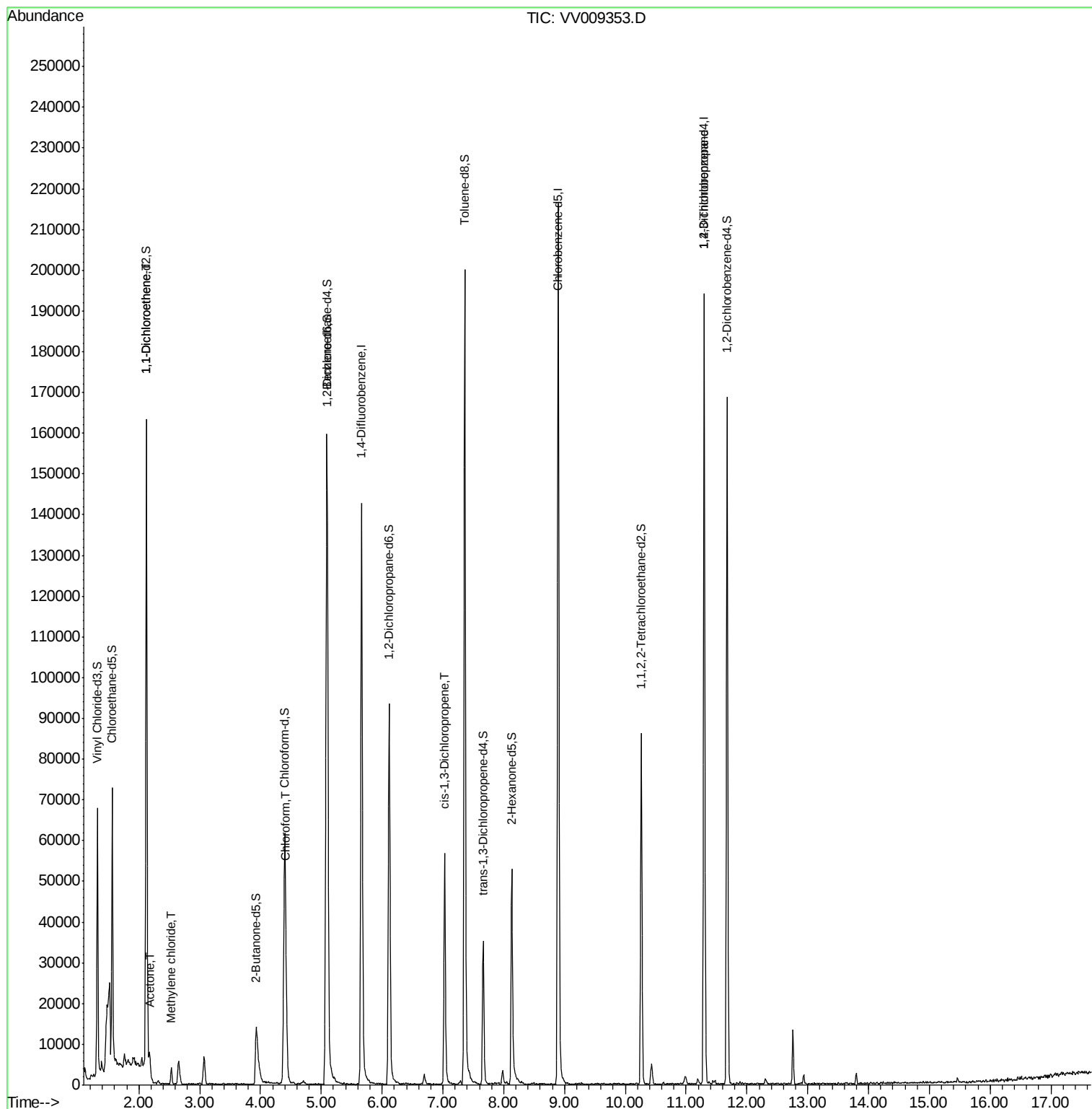
|                             |       |    |      |            | Qvalue |
|-----------------------------|-------|----|------|------------|--------|
| 12) 1,1-Dichloroethene      | 2.12  | 96 | 887  | 0.472 ug/L | # 1    |
| 13) Acetone                 | 2.18  | 43 | 2346 | 4.023 ug/L | 91     |
| 16) Methylene chloride      | 2.53  | 84 | 1596 | 0.823 ug/L | 96     |
| 25) Chloroform              | 4.42  | 83 | 8832 | 2.951 ug/L | 96     |
| 42) cis-1,3-Dichloropropene | 7.03  | 75 | 1584 | 0.576 ug/L | 87     |
| 59) 1,2,3-Trichloropropane  | 11.30 | 75 | 6991 | 4.789 ug/L | 91     |

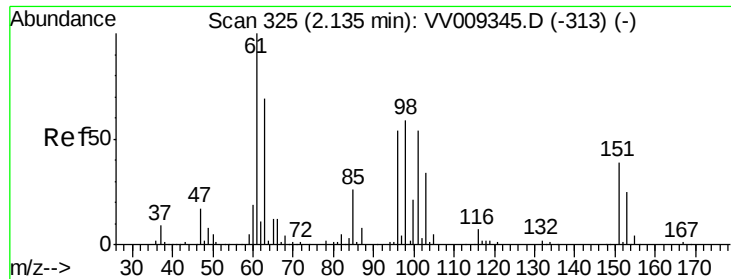
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 0.472 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV009353.D

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MSVOA\_V  
ClientSampleId :  
BF7X9

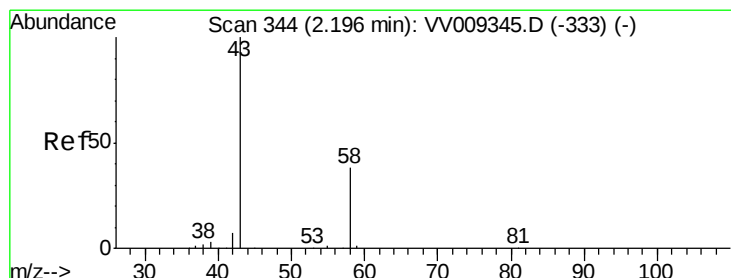
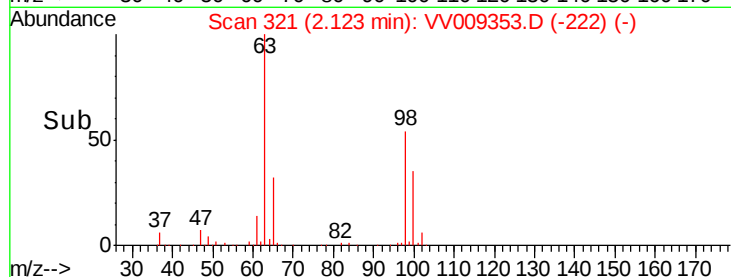
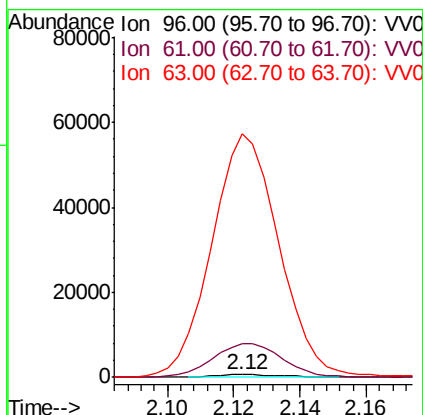
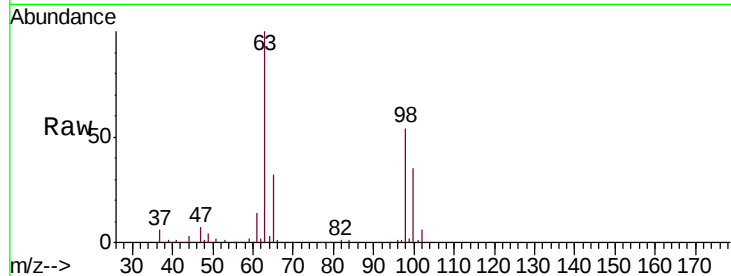
Tgt Ion: 96 Resp: 887

Ion Ratio Lower Upper

96 100

61 1296.9 123.3 228.9#

63 9346.8 88.4 164.2#



#13

Acetone

Concen: 4.023 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.01 min

Lab File: VV009353.D

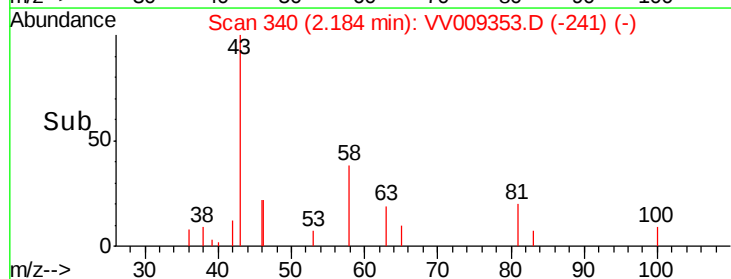
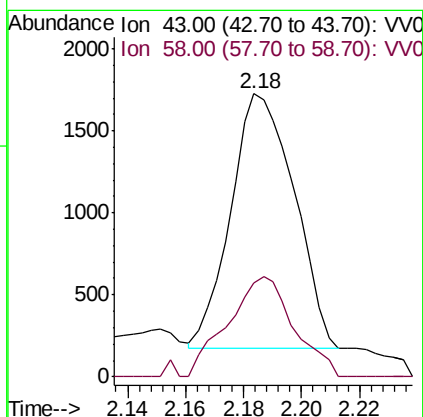
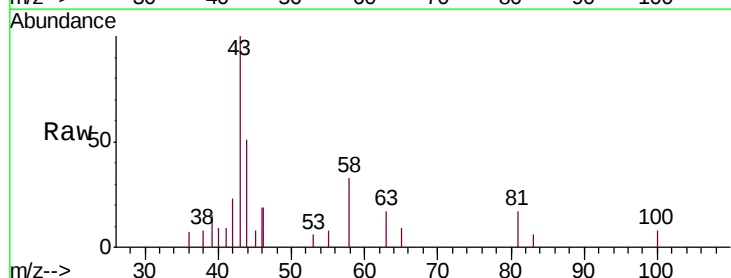
Acq: 25 Feb 2019 17:28

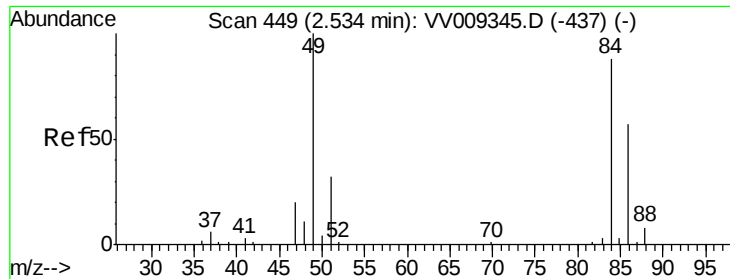
Tgt Ion: 43 Resp: 2346

Ion Ratio Lower Upper

43 100

58 41.2 0.0 72.0

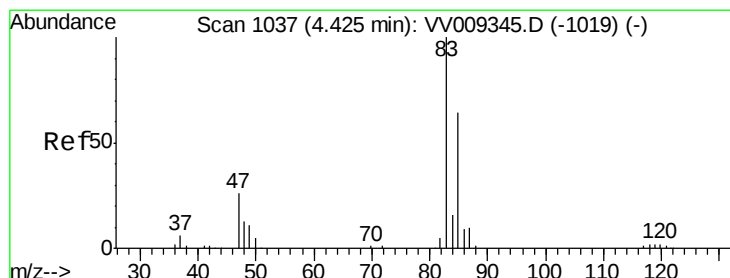
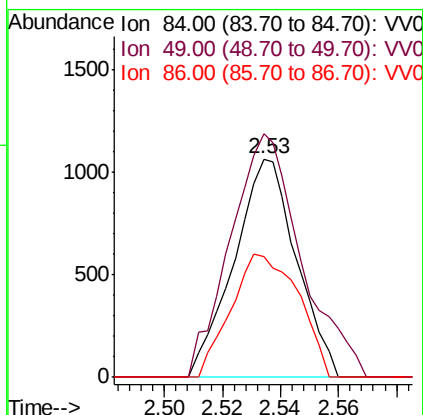
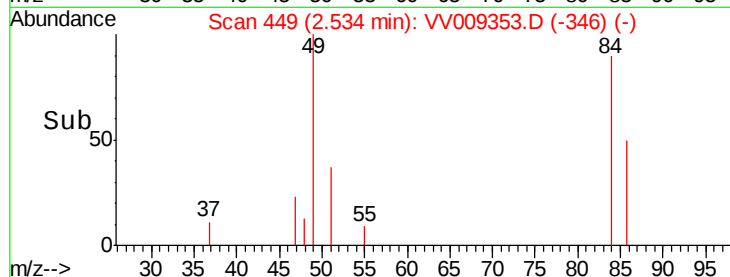
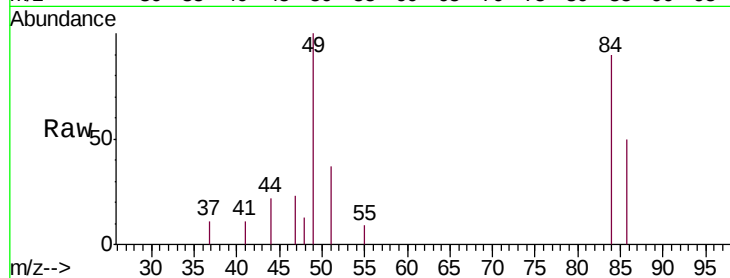




#16  
Methylene chloride  
Concen: 0.823 ug/L  
RT: 2.53 min Scan# 449  
Delta R.T. 0.00 min  
Lab File: VV009353.D  
Acq: 25 Feb 2019 17:28

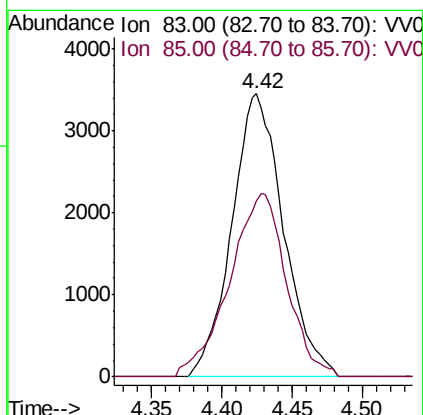
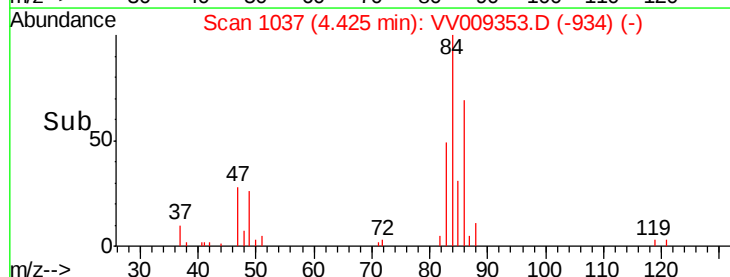
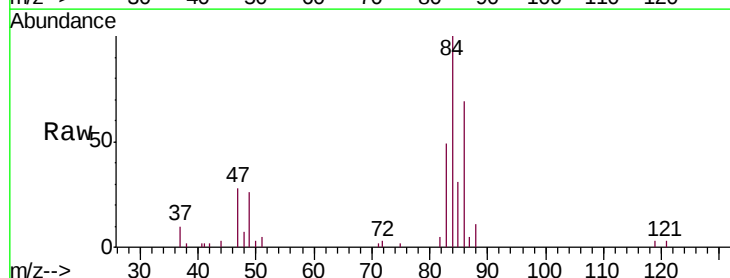
Instrument :  
MSVOA\_V  
ClientSampled :  
BF7X9

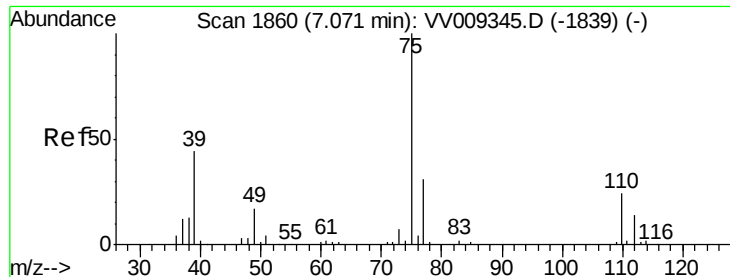
Tgt Ion: 84 Resp: 1596  
Ion Ratio Lower Upper  
84 100  
49 111.5 78.7 146.1  
86 55.3 44.0 81.6



#25  
Chloroform  
Concen: 2.951 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. 0.00 min  
Lab File: VV009353.D  
Acq: 25 Feb 2019 17:28

Tgt Ion: 83 Resp: 8832  
Ion Ratio Lower Upper  
83 100  
85 71.4 47.5 88.3



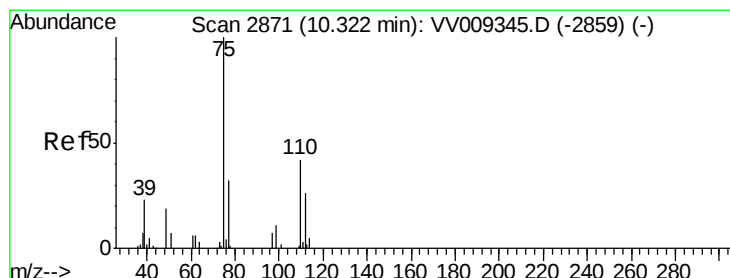
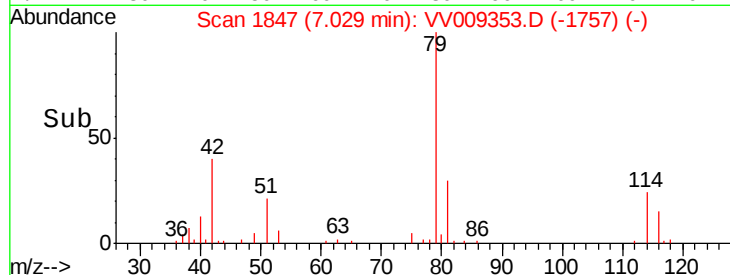
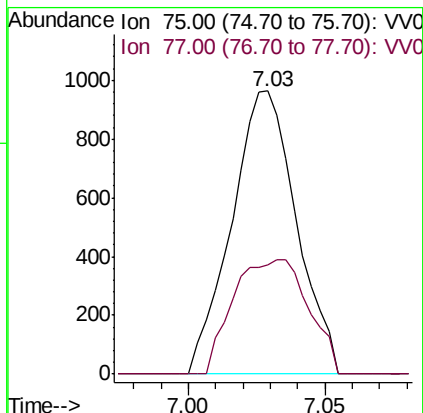
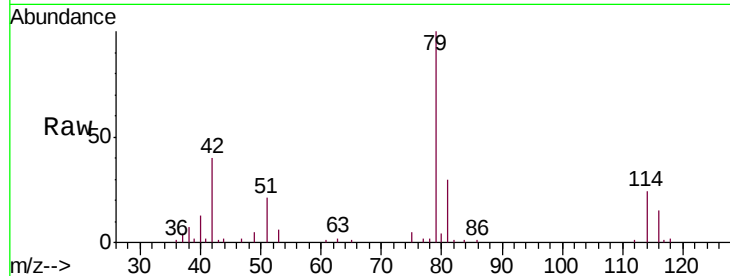


#42

cis-1,3-Dichloropropene  
Concen: 0.576 ug/L  
RT: 7.03 min Scan# 1847  
Delta R.T. -0.04 min  
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Instrument :  
MSVOA\_V  
ClientSampled :  
BF7X9

Tgt Ion: 75 Resp: 1584  
Ion Ratio Lower Upper  
75 100  
77 38.6 22.0 40.8



#59

1,2,3-Trichloropropane  
Concen: 4.789 ug/L  
RT: 11.30 min Scan# 3174  
Delta R.T. 0.97 min  
Lab File: VV009353.D  
Acq: 25 Feb 2019 17:28

Tgt Ion: 75 Resp: 6991  
Ion Ratio Lower Upper  
75 100  
77 38.1 26.3 39.5

