

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV121918\  
 Data File : VV009053.D  
 Acq On : 19 Dec 2018 16:18  
 Operator : SY/MD  
 Sample : J6441-03  
 Misc : 4.33G/10ML/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BE814

Manual Integrations  
 APPROVED

MMDadoda  
 12/20/2018 1:25:25 PM

Quant Time: Dec 20 03:11:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM120618S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Dec 20 01:58:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 144018   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 96457    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 21725    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 35816    | 24.03    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 96.12%   |
| 7) Chloroethane-d5             | 1.58   | 69    | 49008    | 44.51    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 178.04%# |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 101313   | 27.19    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 108.76%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 26578    | 48.98    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 97.96%   |
| 24) Chloroform-d               | 4.40   | 84    | 115093   | 33.24    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 132.96%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 57642    | 30.51    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 122.04%  |
| 29) Benzene-d6                 | 5.10   | 84    | 207927   | 38.60    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 154.40%# |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 71819    | 47.62    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 190.48%# |
| 37) Toluene-d8                 | 7.36   | 98    | 158586   | 31.81    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 127.24%  |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 15236    | 22.99    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 91.96%   |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 13149    | 47.59    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 95.18%   |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 37734    | 29.83    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 119.32%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 26355    | 32.32    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 129.28%# |

| Target Compounds       |      |    |       |              | Qvalue |
|------------------------|------|----|-------|--------------|--------|
| 13) Acetone            | 2.19 | 43 | 34253 | 42.847 ug/L  | 100    |
| 16) Methylene chloride | 2.53 | 84 | 3459  | 1.426 ug/L   | 86     |
| 21) 2-Butanone         | 4.03 | 43 | 9996m | 13.341 ug/L  |        |
| 30) Cyclohexane        | 4.73 | 56 | 2382  | 0.981 ug/L # | 88     |
| 34) Benzene            | 5.15 | 78 | 4179  | 0.723 ug/L   | 100    |

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

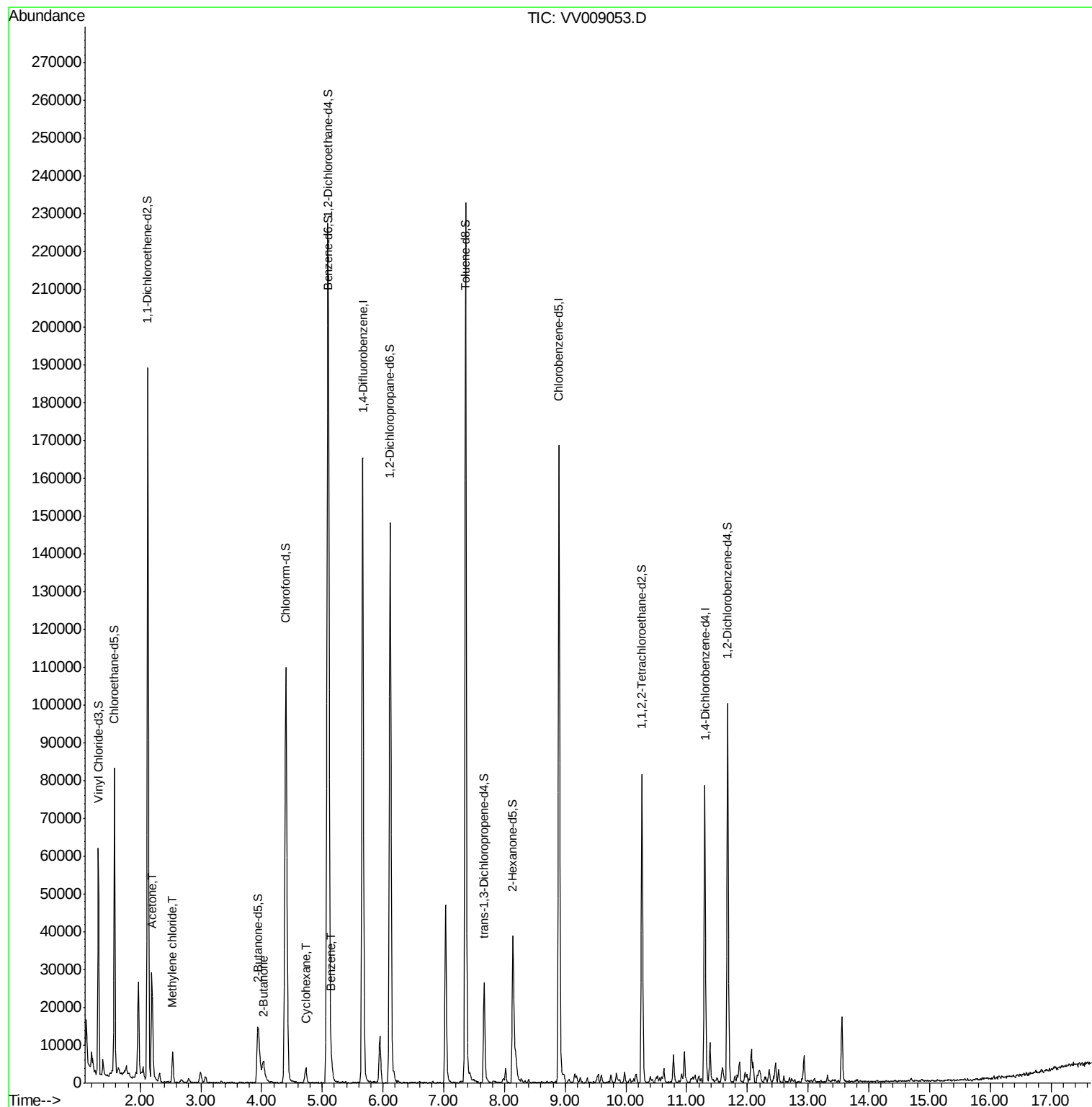
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV121918\  
Data File : VV009053.D  
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Operator : SY/MD  
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ALS Vial : 1 Sample Multiplier: 1

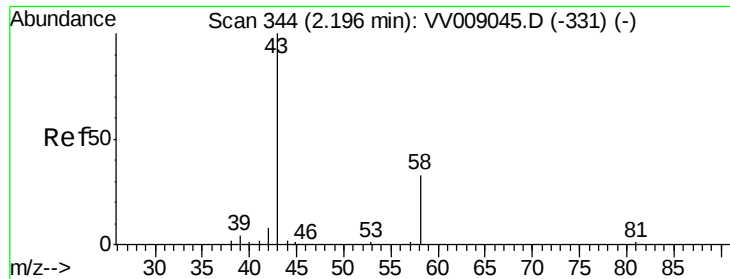
Instrument :  
MSVOA\_V  
ClientSampleId :  
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Quant Time: Dec 20 03:11:52 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM120618S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Dec 20 01:58:47 2018  
Response via : Initial Calibration





#13

Acetone

Concen: 42.847 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.00 min

Lab File: VV009053.D

Acq: 19 Dec 2018 16:18

Instrument :

MSVOA\_V

ClientSampled :

BE814

Tgt Ion: 43 Resp: 34253

Ion Ratio Lower Upper

43 100

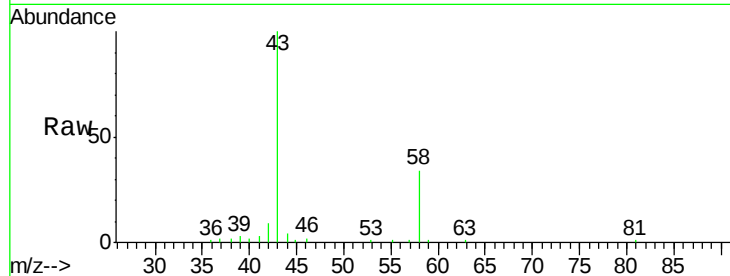
58 32.5 0.0 65.4

Manual Integrations

APPROVED

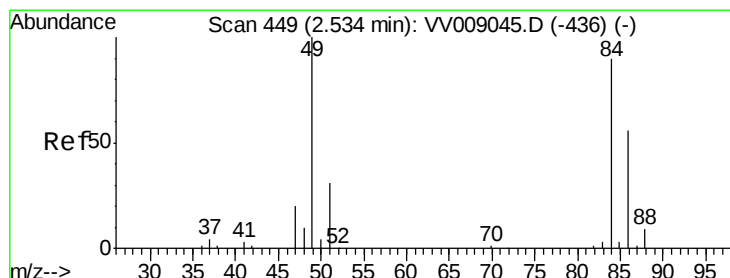
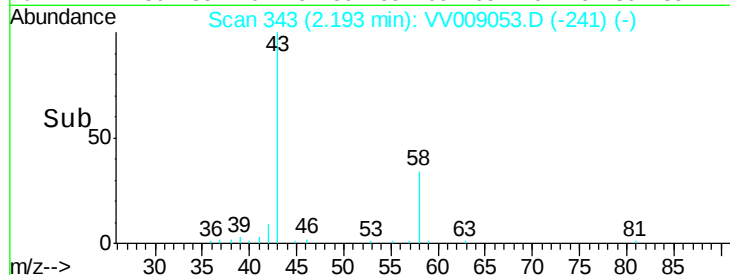
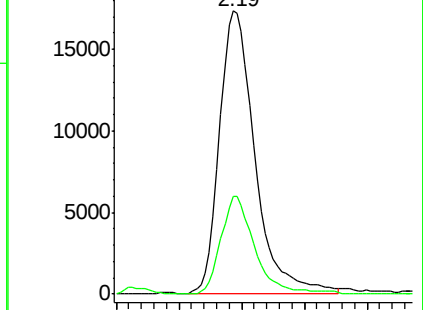
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Abundance Ion 43.00 (42.70 to 43.70): VV009045.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV009045.D (-331) (-)



#16

Methylene chloride

Concen: 1.426 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV009053.D

Acq: 19 Dec 2018 16:18

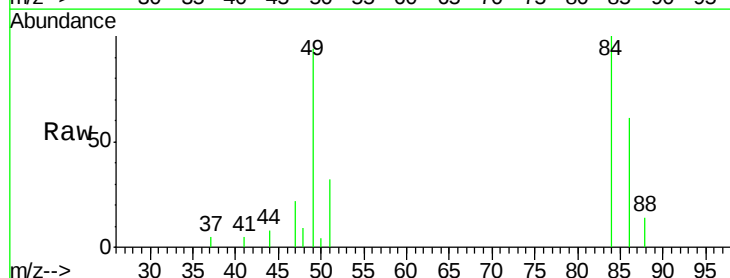
Tgt Ion: 84 Resp: 3459

Ion Ratio Lower Upper

84 100

49 93.7 80.5 149.5

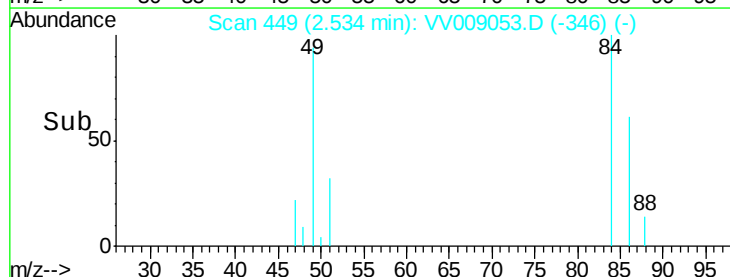
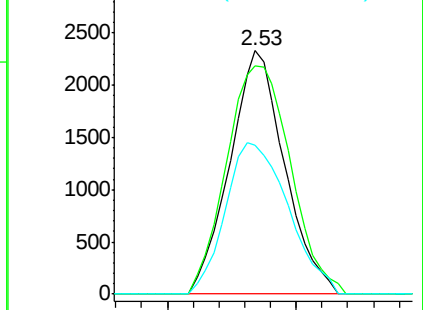
86 61.1 45.5 84.5

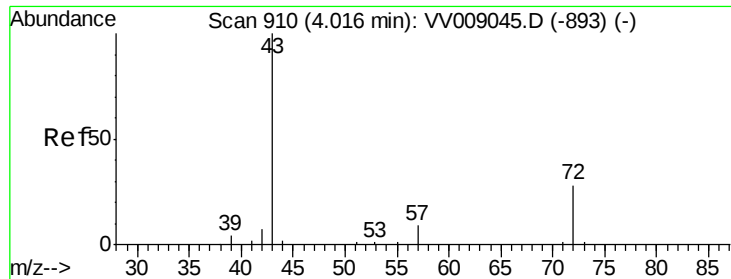


Abundance Ion 84.00 (83.70 to 84.70): VV009045.D (-436) (-)

Ion 49.00 (48.70 to 49.70): VV009045.D (-436) (-)

Ion 86.00 (85.70 to 86.70): VV009045.D (-436) (-)





#21

2-Butanone

Concen: 13.341 ug/L m

RT: 4.03 min Scan# 914

Delta R.T. 0.01 min

Lab File: VV009053.D

Acq: 19 Dec 2018 16:18

Instrument :

MSVOA\_V

ClientSampleId :

BE814

Tgt Ion: 43 Resp: 9996

Ion Ratio Lower Upper

43 100

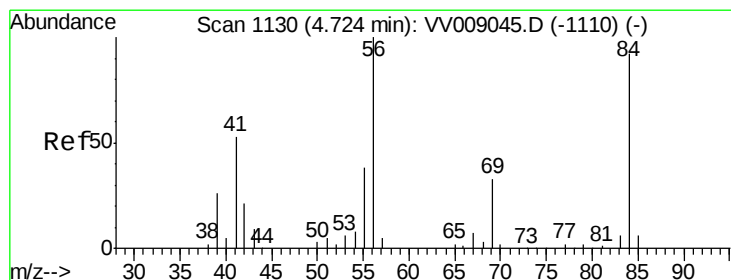
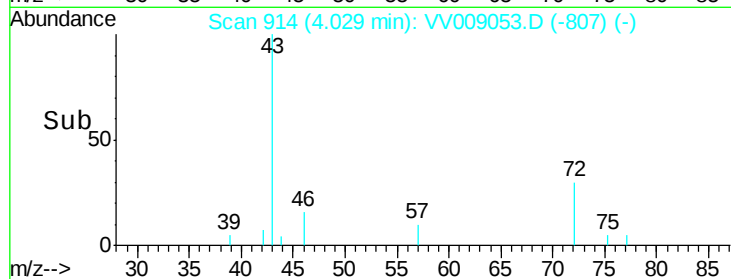
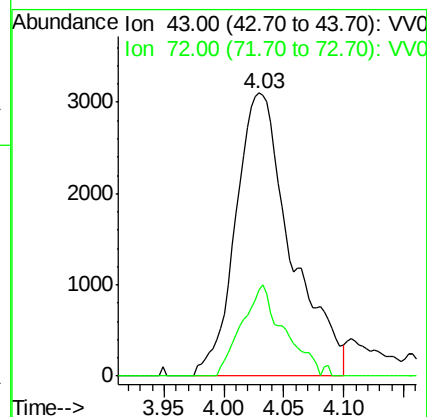
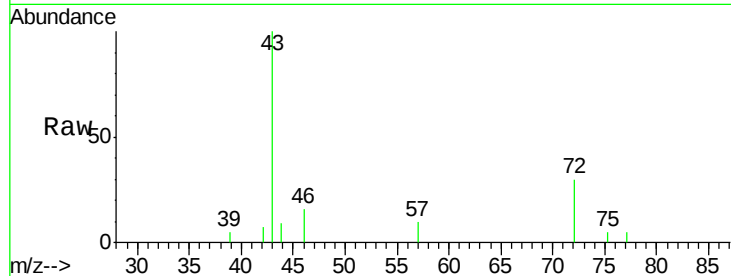
72 18.2 13.7 41.1

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#30

Cyclohexane

Concen: 0.981 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV009053.D

Acq: 19 Dec 2018 16:18

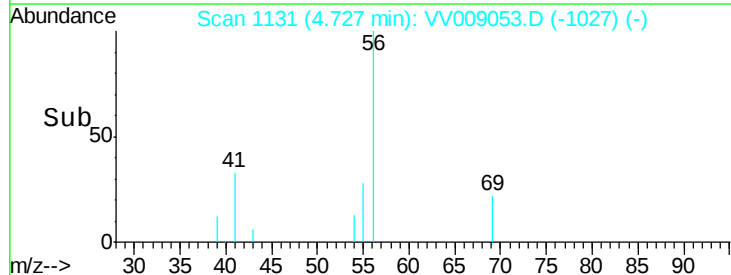
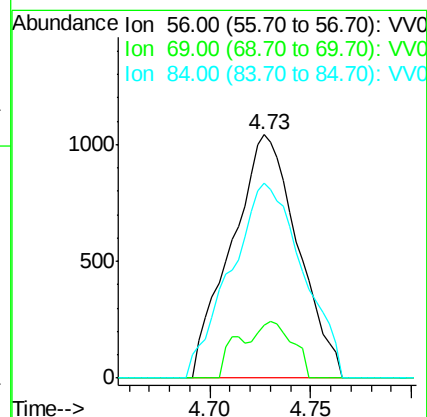
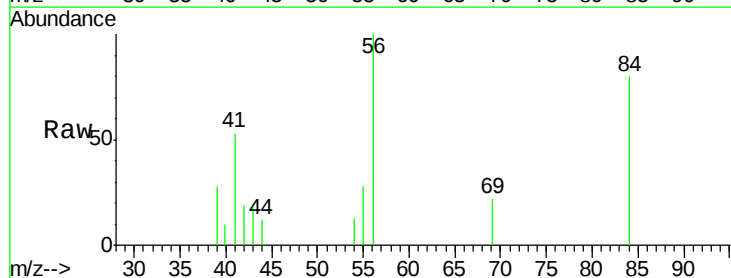
Tgt Ion: 56 Resp: 2382

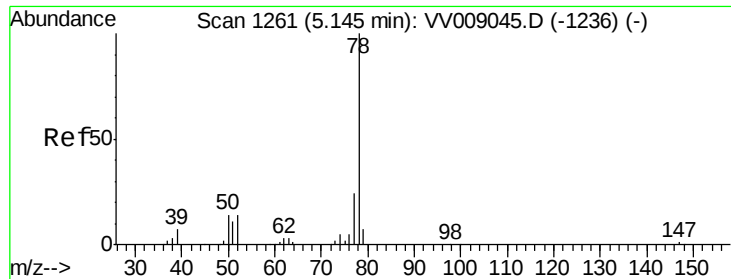
Ion Ratio Lower Upper

56 100

69 13.6 25.8 38.8#

84 87.0 73.0 109.6





#34  
Benzene  
Concen: 0.723 ug/L  
RT: 5.15 min Scan# 1262  
Delta R.T. 0.00 min  
Lab File: VV009053.D  
Acq: 19 Dec 2018 16:18

Instrument :  
MSVOA\_V  
ClientSampleId :  
BE814

Tgt Ion: 78 Resp: 4179

Manual Integrations  
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