

Data File : VV010282.D  
Acq On : 12 Apr 2019 12:53  
Operator : SY/MD  
Sample : K2328-20MSD  
Misc : 4.84G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
DB733MSD

Quant Time: Apr 13 05:08:30 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041019S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Apr 13 04:47:32 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 284087   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 270338   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 121475   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 50926    | 15.57    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 62.28% |
| 7) Chloroethane-d5             | 1.57   | 69    | 58375    | 20.77    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 83.08% |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 165634   | 19.90    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 79.60% |
| 20) 2-Butanone-d5              | 3.93   | 46    | 40375    | 48.79    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 97.58% |
| 24) Chloroform-d               | 4.40   | 84    | 144832   | 22.32    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 89.28% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 80422    | 21.77    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 87.08% |
| 29) Benzene-d6                 | 5.10   | 84    | 275312   | 21.12    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 84.48% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 88354    | 22.79    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 91.16% |
| 37) Toluene-d8                 | 7.36   | 98    | 261554   | 20.58    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 82.32% |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 32347    | 20.01    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 80.04% |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 28831    | 43.05    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 86.10% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 75866    | 21.80    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 87.20% |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 102783   | 22.91    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 91.64% |

#### Target Compounds

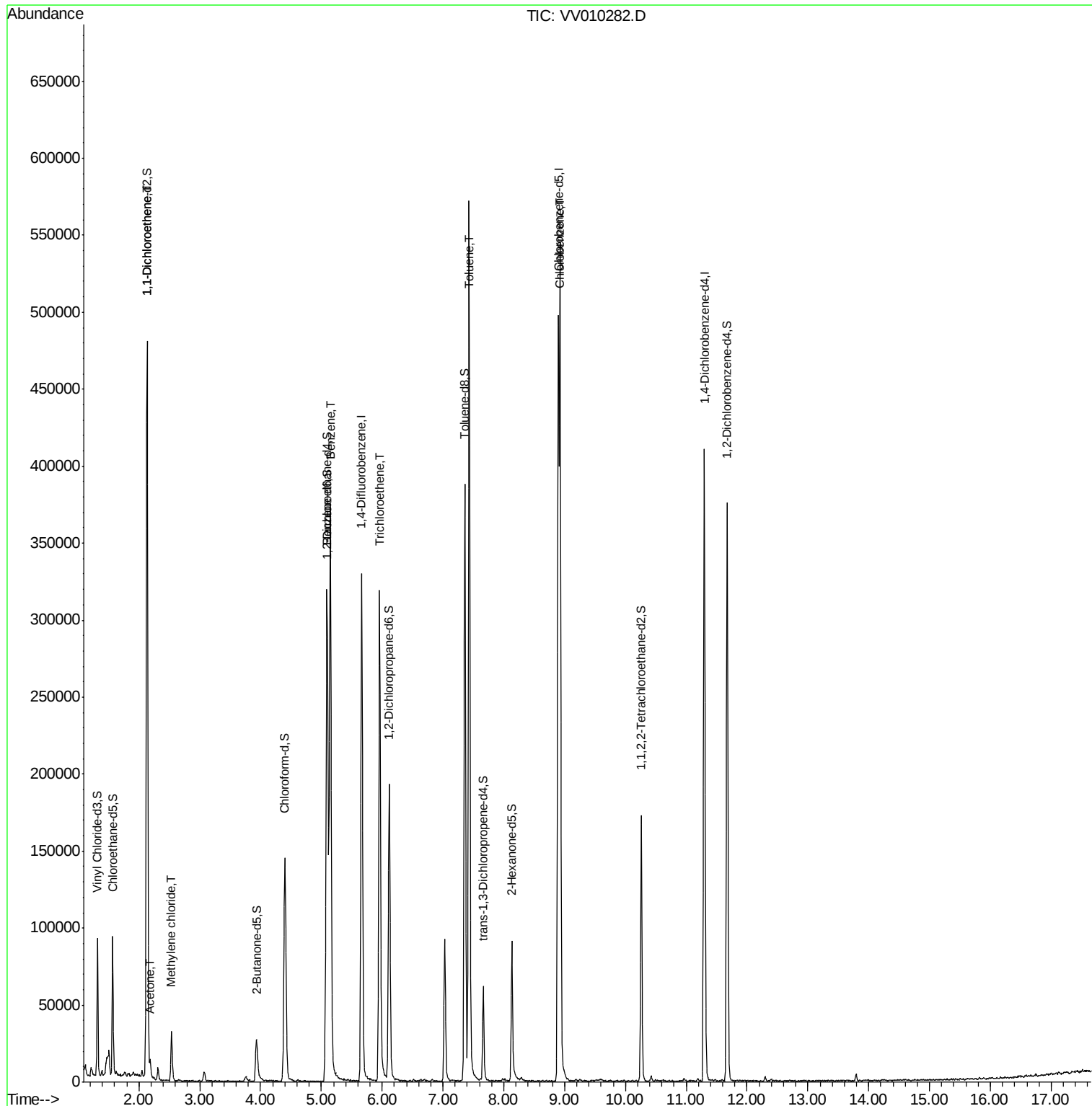
|                        |      |     |        |        |      | Qvalue |
|------------------------|------|-----|--------|--------|------|--------|
| 12) 1,1-Dichloroethene | 2.14 | 96  | 96608  | 25.775 | ug/L | 91     |
| 13) Acetone            | 2.19 | 43  | 3959   | 4.477  | ug/L | 94     |
| 16) Methylene chloride | 2.54 | 84  | 12961  | 2.330  | ug/L | 94     |
| 34) Benzene            | 5.15 | 78  | 363301 | 26.511 | ug/L | 100    |
| 35) Trichloroethene    | 5.96 | 95  | 104785 | 26.465 | ug/L | 98     |
| 44) Toluene            | 7.43 | 91  | 416564 | 27.040 | ug/L | 98     |
| 52) Chlorobenzene      | 8.93 | 112 | 285580 | 26.565 | ug/L | 99     |

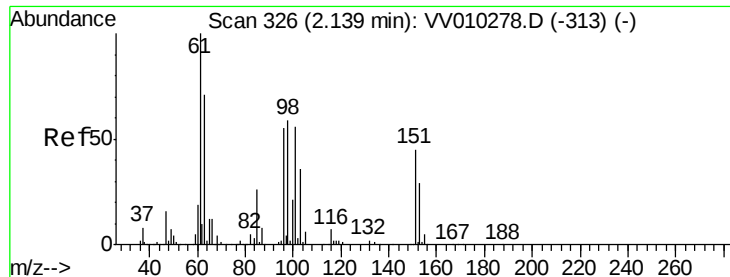
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Sat Apr 13 04:47:32 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 25.775 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV010282.D

Acq: 12 Apr 2019 12:53

Instrument :

MSVOA\_V

ClientSampleId :

DB733MSD

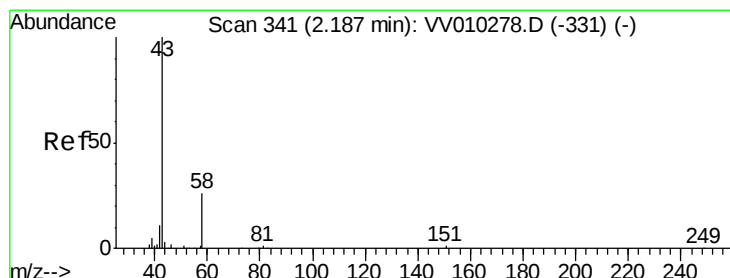
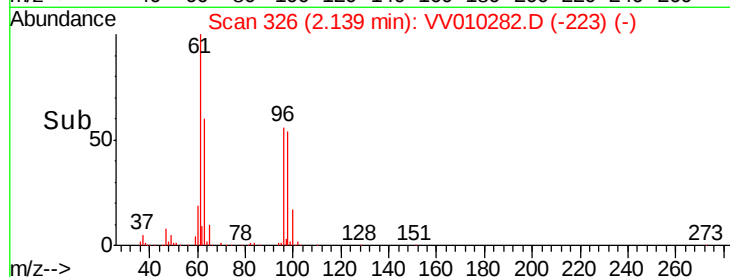
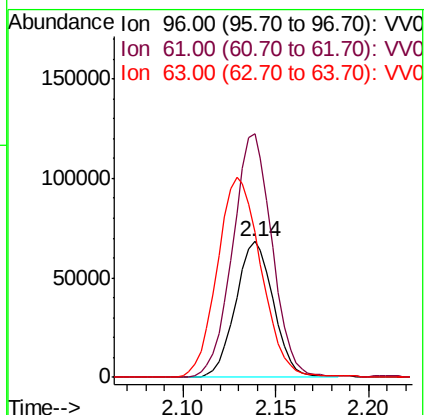
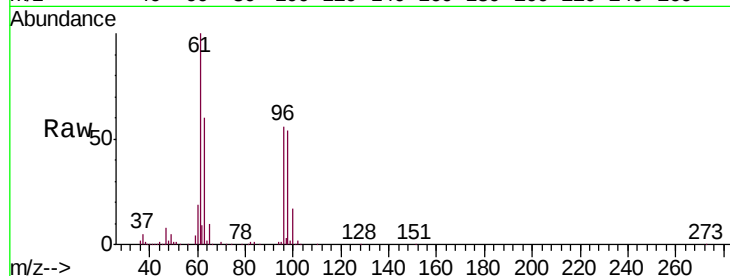
Tgt Ion: 96 Resp: 96608

Ion Ratio Lower Upper

96 100

61 179.4 125.3 232.7

63 107.0 91.3 169.6



#13

Acetone

Concen: 4.477 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV010282.D

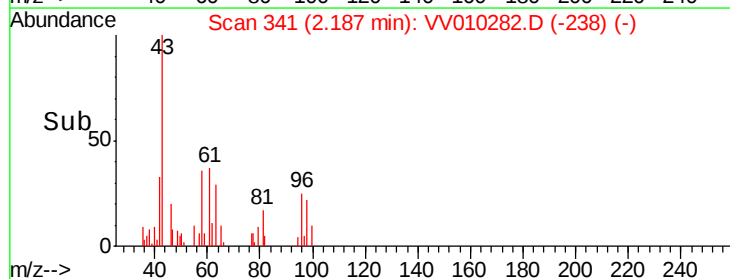
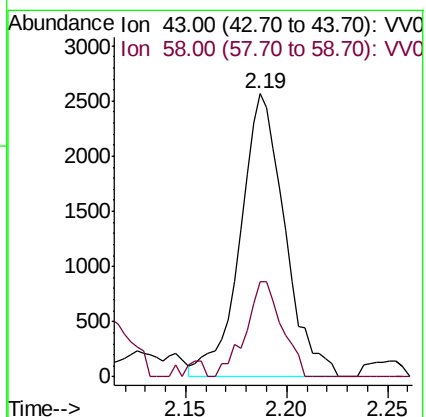
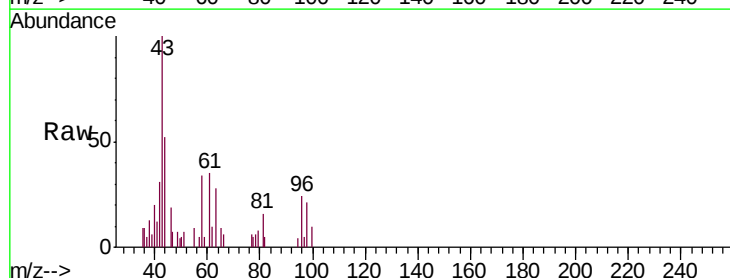
Acq: 12 Apr 2019 12:53

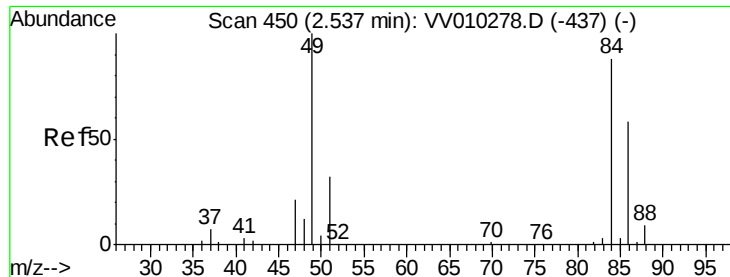
Tgt Ion: 43 Resp: 3959

Ion Ratio Lower Upper

43 100

58 27.6 0.0 61.6

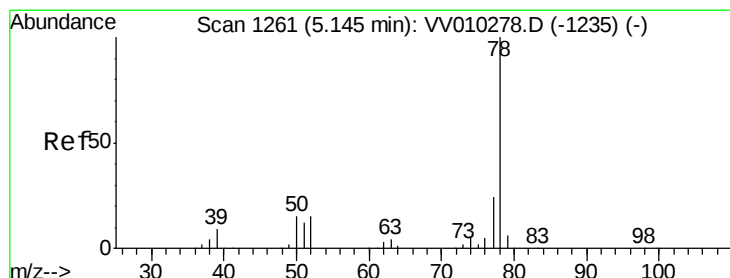
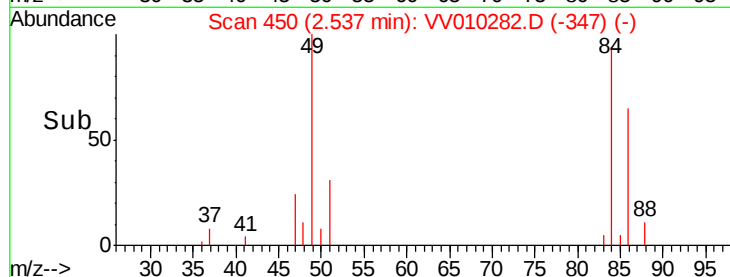
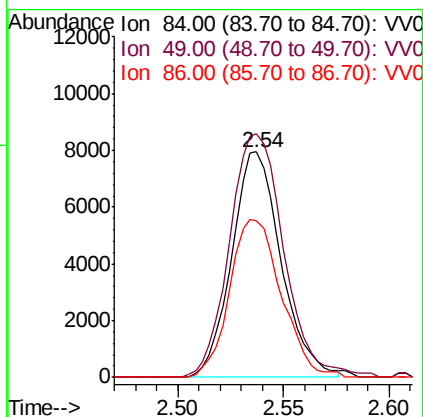
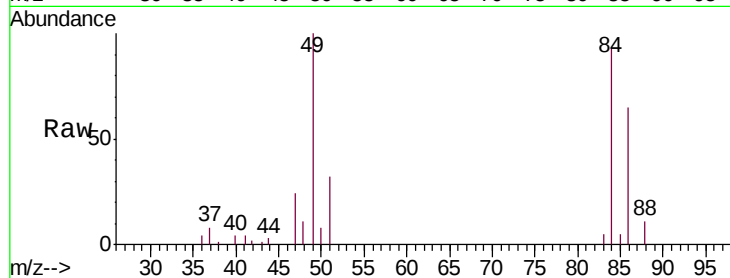




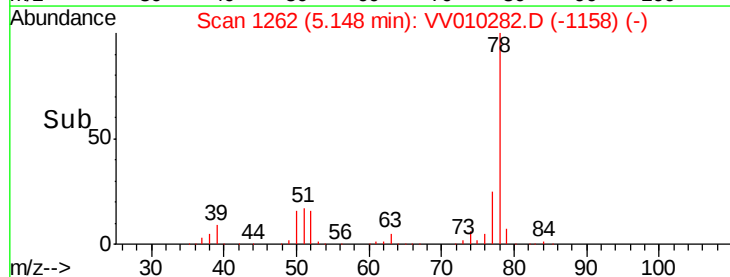
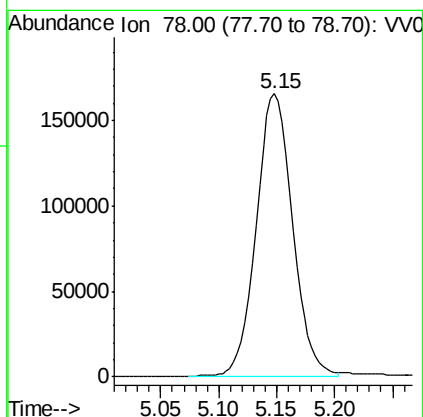
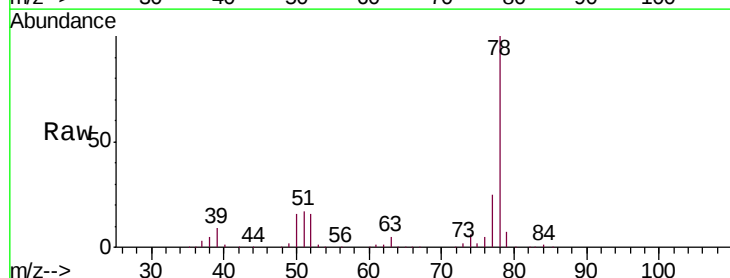
#16  
Methylene chloride  
Concen: 2.330 ug/L  
RT: 2.54 min Scan# 450  
Delta R.T. -0.00 min  
Lab File: VV010282.D  
Acq: 12 Apr 2019 12:53

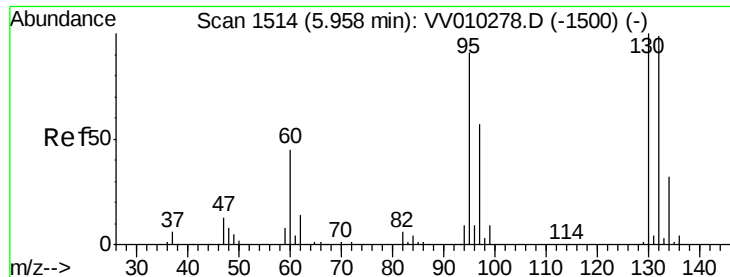
Instrument :  
MSVOA\_V  
ClientSampleId :  
DB733MSD

Tgt Ion: 84 Resp: 12961  
Ion Ratio Lower Upper  
84 100  
49 108.1 79.9 148.5  
86 69.8 44.5 82.7



#34  
Benzene  
Concen: 26.511 ug/L  
RT: 5.15 min Scan# 1262  
Delta R.T. 0.00 min  
Lab File: VV010282.D  
Acq: 12 Apr 2019 12:53  
Tgt Ion: 78 Resp: 363301





#35

Trichloroethene

Concen: 26.465 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV010282.D

Acq: 12 Apr 2019 12:53

Instrument :

MSVOA\_V

ClientSampleId :

DB733MSD

Tgt Ion: 95 Resp: 104785

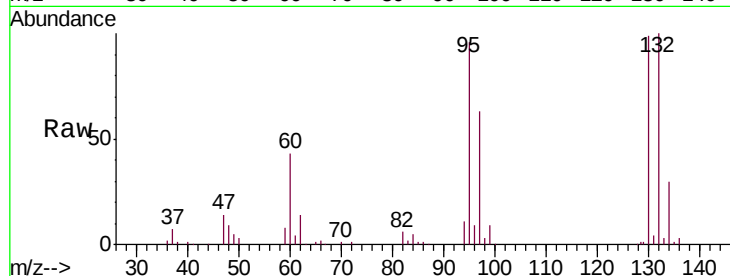
Ion Ratio Lower Upper

95 100

97 63.9 44.3 82.3

132 103.7 71.3 132.3

130 106.7 73.4 136.4

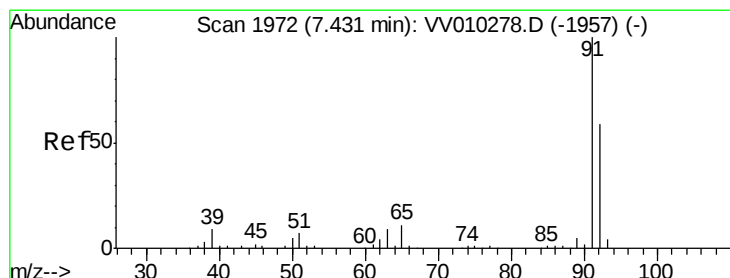
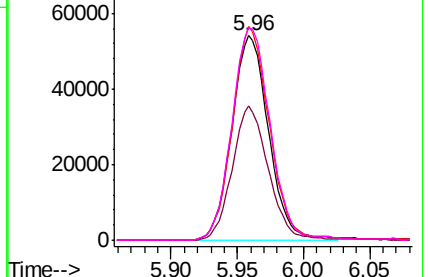
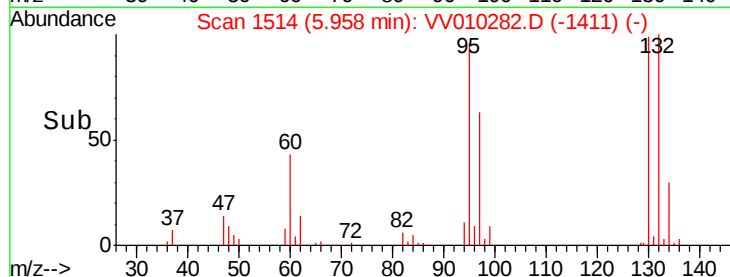


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#44

Toluene

Concen: 27.040 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV010282.D

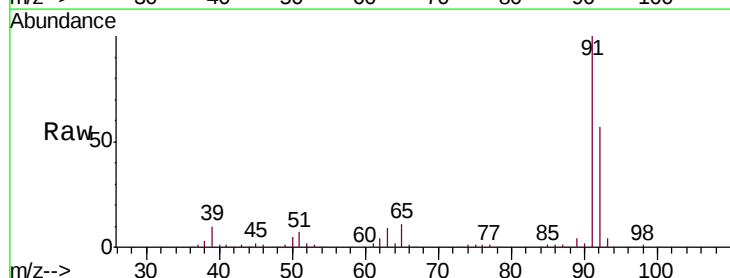
Acq: 12 Apr 2019 12:53

Tgt Ion: 91 Resp: 416564

Ion Ratio Lower Upper

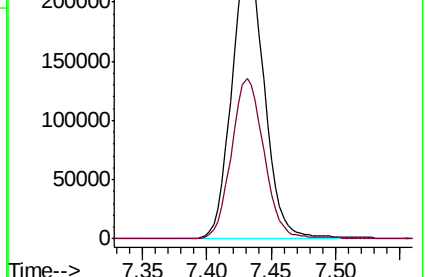
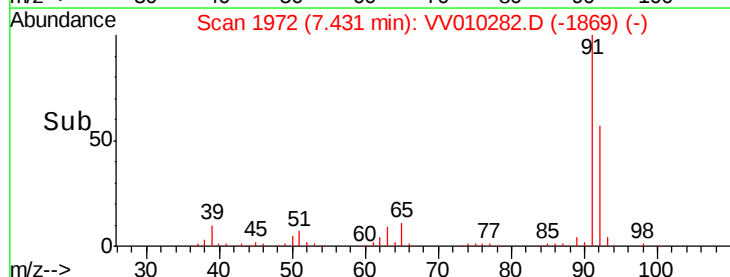
91 100

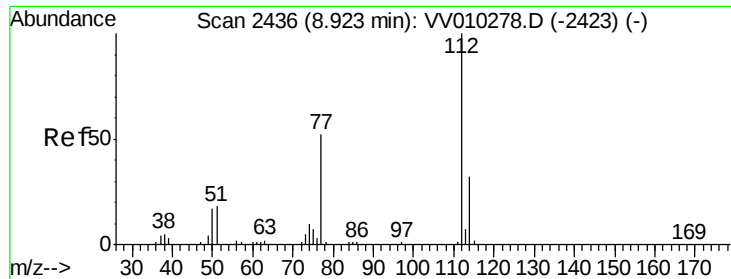
92 56.8 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0





#52

Chlorobenzene

Concen: 26.565 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV010282.D

Acq: 12 Apr 2019 12:53

Instrument :

MSVOA\_V

ClientSampleId :

DB733MSD

Tgt Ion:112 Resp: 285580

Ion Ratio Lower Upper

112 100

77 52.5 42.2 63.2

114 32.0 23.4 43.4

