

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV050619\  
 Data File : VV010677.D  
 Acq On : 06 May 2019 14:47  
 Operator : SY/MD  
 Sample : K2603-02MS  
 Misc : 5.09G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 07 04:25:50 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM050219S.M

Quant Title : VOC Analysis

QLast Update : Tue May 07 04:01:38 2019

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 50778    | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 47731    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 18386    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 8899     | 13.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 55.36%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 7336     | 16.30    | ug/L | 0.02    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 65.20%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 18829    | 16.70    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 66.80%  |
| 20) 2-Butanone-d5              | 3.95   | 46    | 5959m    | 30.47    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 60.94%  |
| 24) Chloroform-d               | 4.40   | 84    | 27624    | 21.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 84.24%  |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 15189    | 20.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 80.84%  |
| 29) Benzene-d6                 | 5.10   | 84    | 56247    | 22.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 90.96%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 17784    | 23.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 93.88%  |
| 37) Toluene-d8                 | 7.36   | 98    | 52084    | 21.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 87.64%  |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 5819     | 18.58    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 74.32%  |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 5090     | 37.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 75.46%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 14919    | 21.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 87.40%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 17859    | 25.24    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 100.96% |

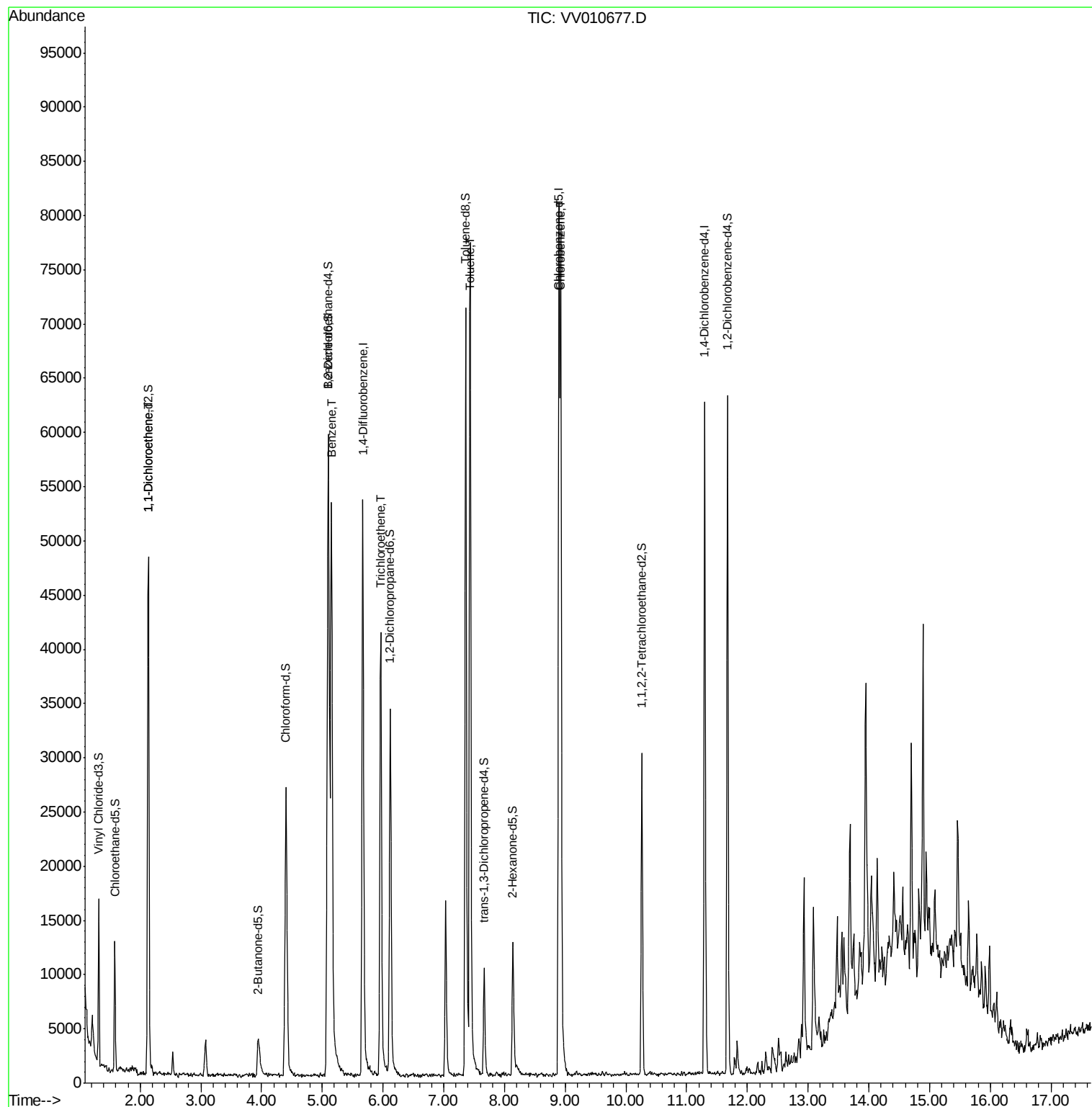
#### Target Compounds

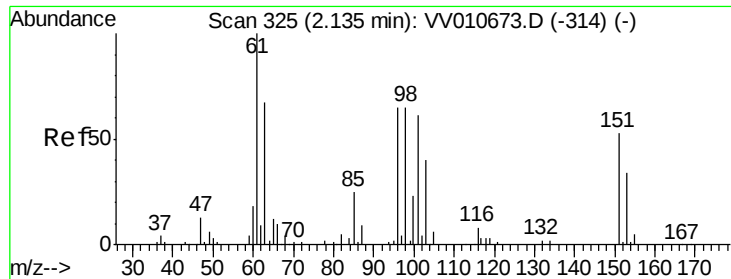
|                        |      |     |       |        | Ovalue   |
|------------------------|------|-----|-------|--------|----------|
| 12) 1,1-Dichloroethene | 2.14 | 96  | 9267  | 18.996 | ug/L 97  |
| 34) Benzene            | 5.15 | 78  | 53680 | 23.526 | ug/L 100 |
| 35) Trichloroethene    | 5.96 | 95  | 14977 | 23.012 | ug/L 98  |
| 44) Toluene            | 7.43 | 91  | 63253 | 25.118 | ug/L 100 |
| 52) Chlorobenzene      | 8.93 | 112 | 42433 | 24.144 | ug/L 98  |

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

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Operator : SY/MD  
Sample : K2603-02MS  
Misc : 5.09G/10ML/MSVOA V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

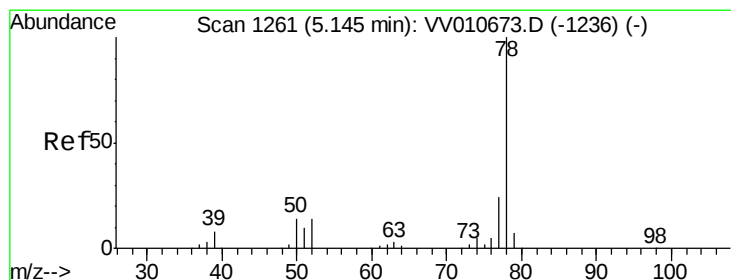
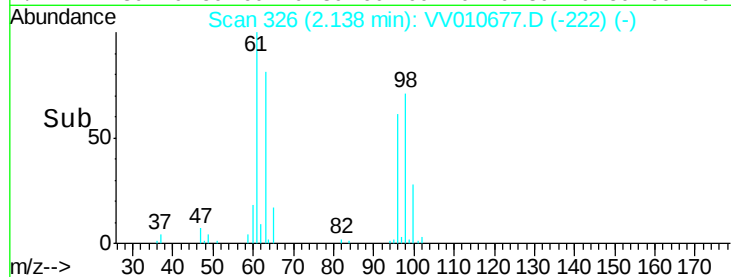
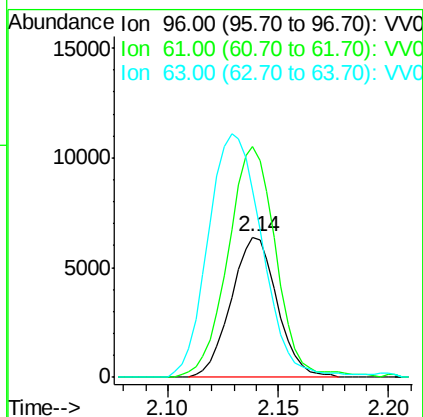
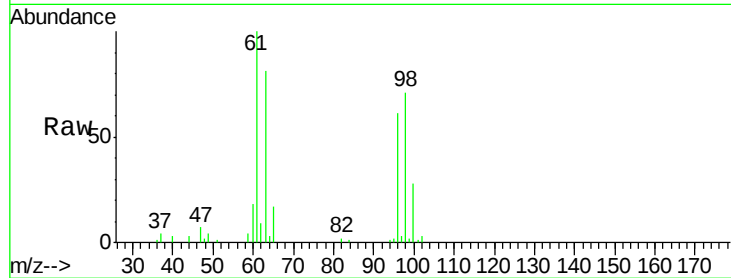
Quant Time: May 07 04:25:50 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM050219S.M  
Quant Title : VOC Analysis  
QLast Update : Tue May 07 04:01:38 2019  
Response via : Initial Calibration





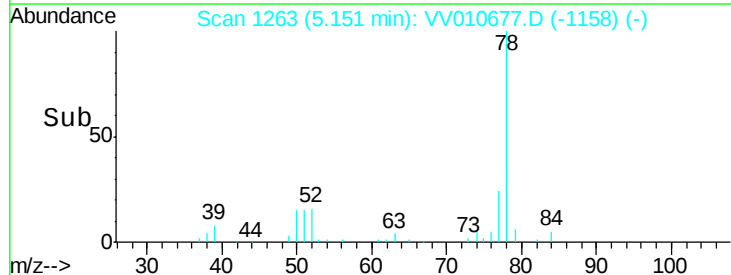
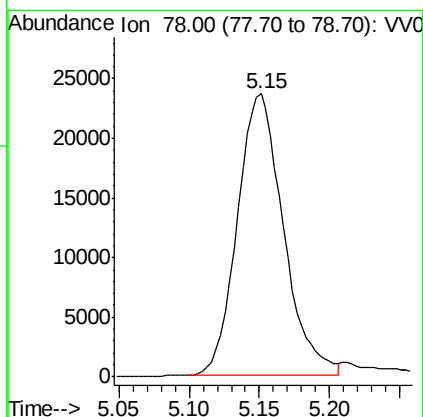
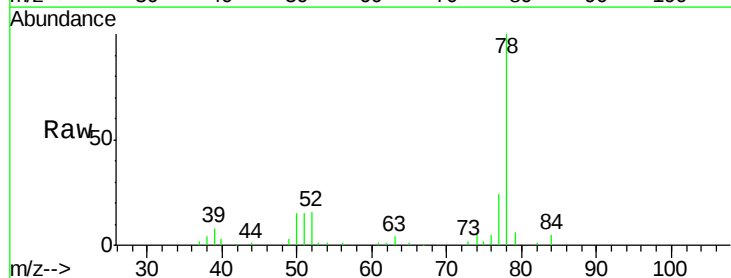
#12  
 1,1-Dichloroethene  
 Concen: 18.996 ug/L  
 RT: 2.14 min Scan# 326  
 Delta R.T. 0.00 min  
 Lab File: VV010677.D  
 Acq: 06 May 2019 14:47

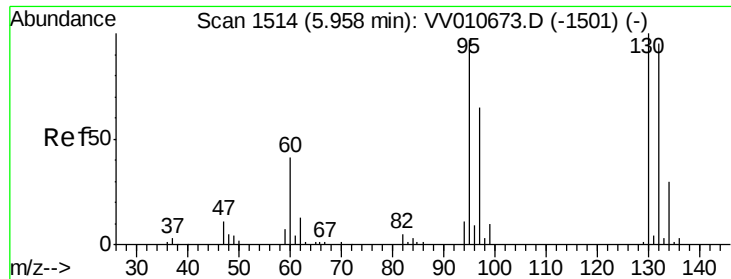
Tot Ion: 96 Resp: 9267  
 Ion Ratio Lower Upper  
 96 100  
 61 164.6 111.1 206.3  
 63 133.8 95.2 176.8



#34  
 Benzene  
 Concen: 23.526 ug/L  
 RT: 5.15 min Scan# 1263  
 Delta R.T. 0.01 min  
 Lab File: VV010677.D  
 Acq: 06 May 2019 14:47

Tgt Ion: 78 Resp: 53680





#35

Trichloroethene

Concen: 23.012 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV010677.D

Acq: 06 May 2019 14:47

Tot Ion: 95 Resp: 14977

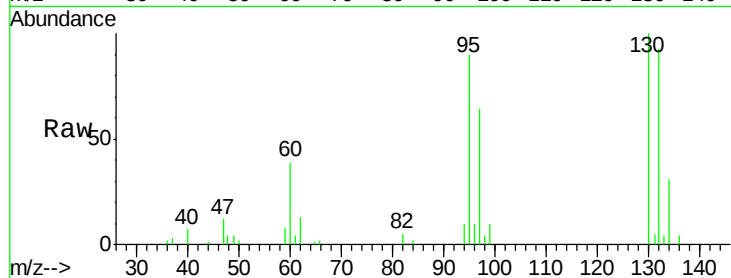
Ion Ratio Lower Upper

95 100

97 65.5 45.0 83.6

132 102.6 69.9 129.9

130 104.3 71.3 132.3

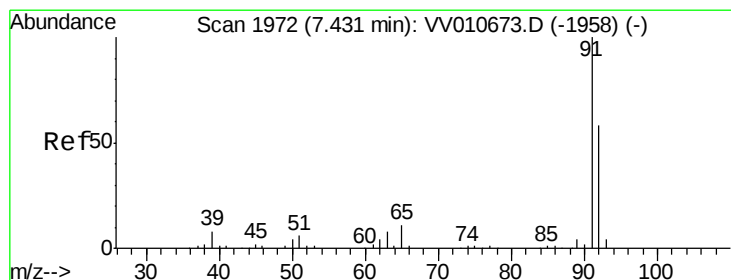
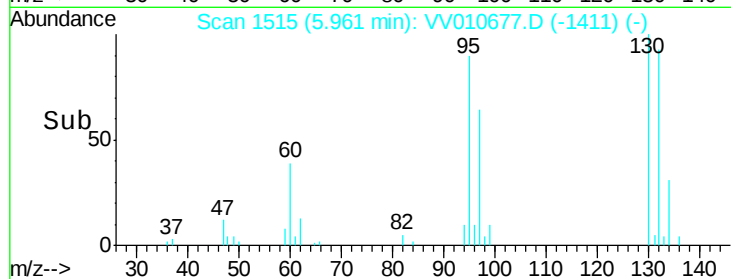
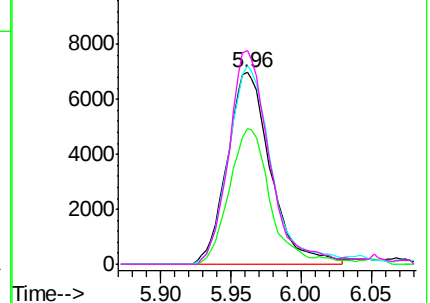


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 25.118 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV010677.D

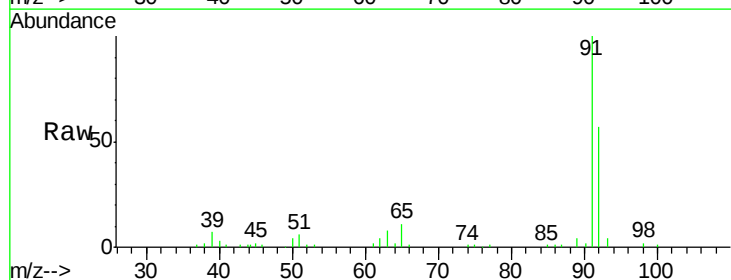
Acq: 06 May 2019 14:47

Tgt Ion: 91 Resp: 63253

Ion Ratio Lower Upper

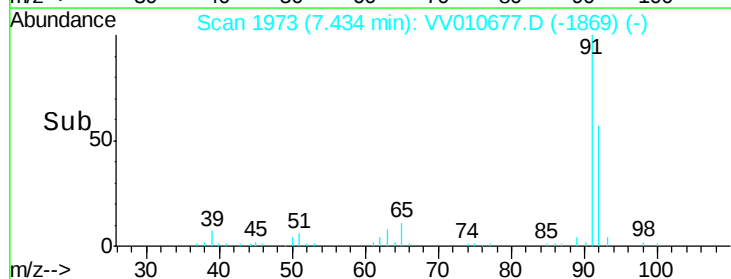
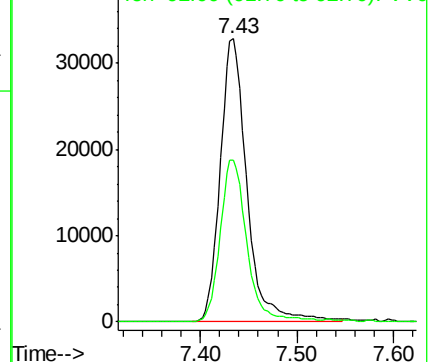
91 100

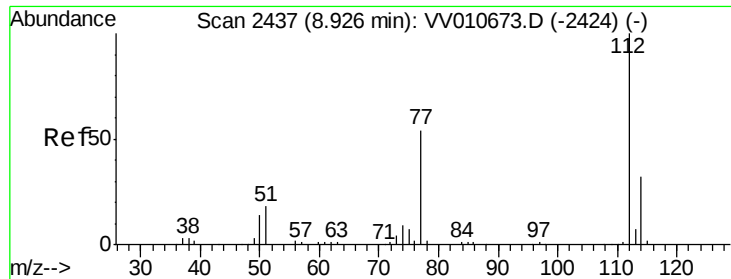
92 57.3 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0





#52

Chlorobenzene

Concen: 24.144 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV010677.D

Acq: 06 May 2019 14:47

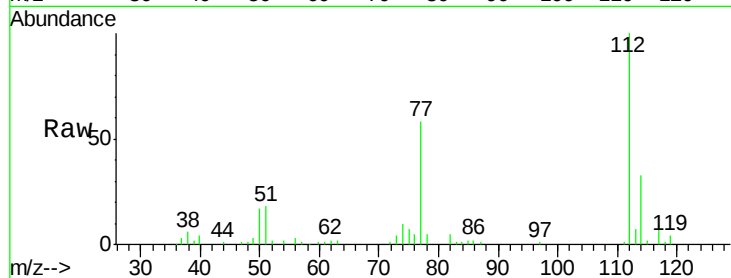
Tot Ion:112 Resp: 42433

Ion Ratio Lower Upper

112 100

77 57.6 44.5 66.7

114 32.7 22.5 41.7



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

