

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\  
 Data File : VU032514.D  
 Acq On : 06 Jun 2019 21:55  
 Operator : JC/SP  
 Sample : K3215-03MSD  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8K9MSD

Quant Time: Jun 07 06:59:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 07 05:48:54 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 211832   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 203371   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 102012   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 46354    | 33.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 67.46%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 42783    | 38.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 77.48%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 108842   | 40.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 80.90%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 109366   | 95.09    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.09%  |
| 24) Chloroform-d               | 4.64    | 84    | 114161   | 44.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.08%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 76914    | 47.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.26%  |
| 32) Benzene-d6                 | 5.33    | 84    | 238693   | 45.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.42%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 76977    | 46.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.00%  |
| 41) Toluene-d8                 | 7.56    | 98    | 230236   | 45.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.98%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 35122    | 44.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 88.66%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 75012    | 93.41    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.41%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 111839   | 46.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.24%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 99615    | 50.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.96% |

## Target Compounds

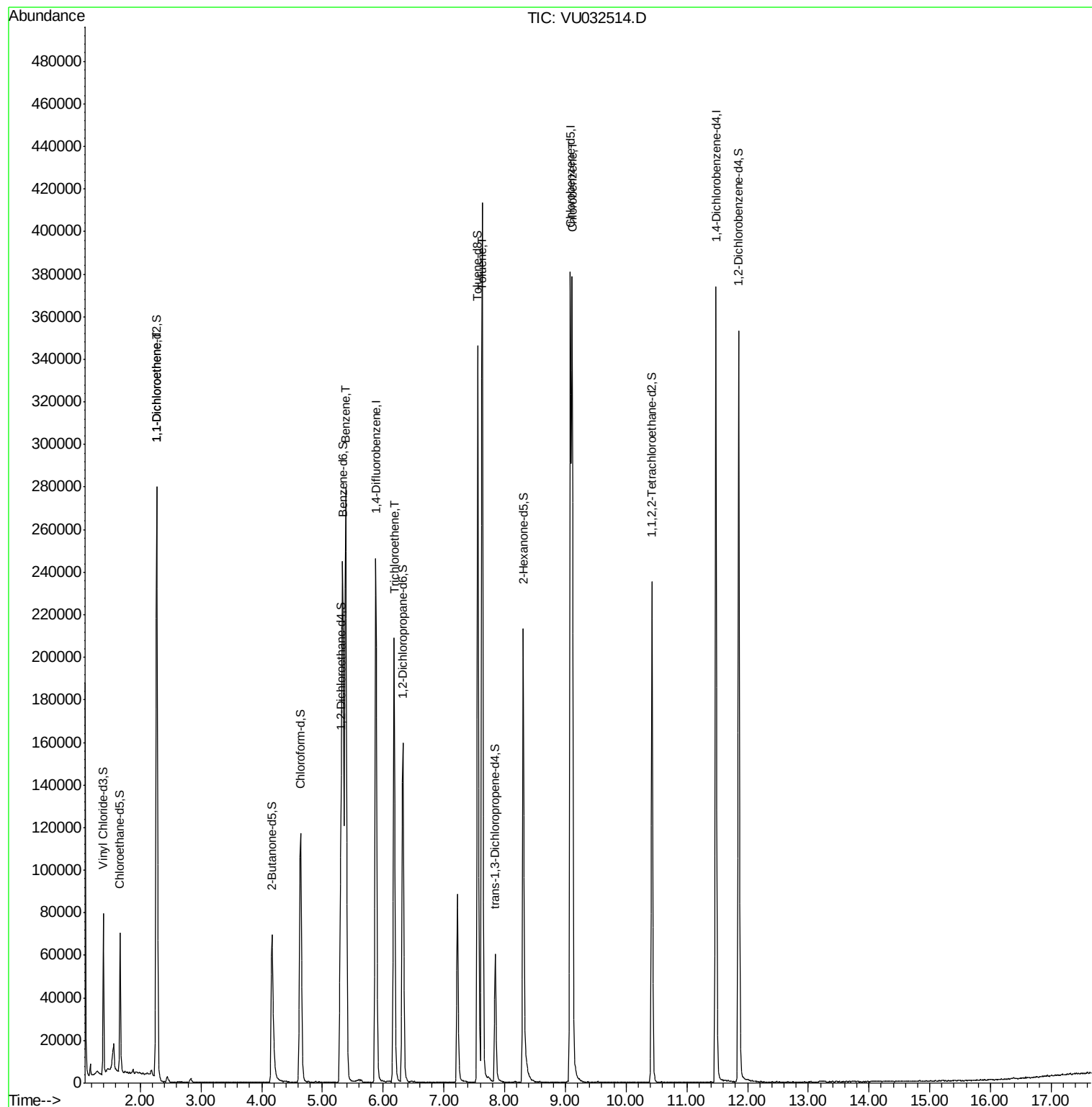
| Target Compounds       | R.T. | QIon | Response | Conc   | Units | Ovalue |
|------------------------|------|------|----------|--------|-------|--------|
| 12) 1,1-Dichloroethene | 2.28 | 96   | 60622    | 48.229 | ug/L  | 82     |
| 33) Benzene            | 5.38 | 78   | 274075   | 47.965 | ug/L  | 100    |
| 34) Trichloroethene    | 6.18 | 95   | 70252    | 45.190 | ug/L  | 99     |
| 42) Toluene            | 7.63 | 91   | 301771   | 48.223 | ug/L  | 98     |
| 51) Chlorobenzene      | 9.11 | 112  | 197784   | 49.057 | ug/L  | 98     |

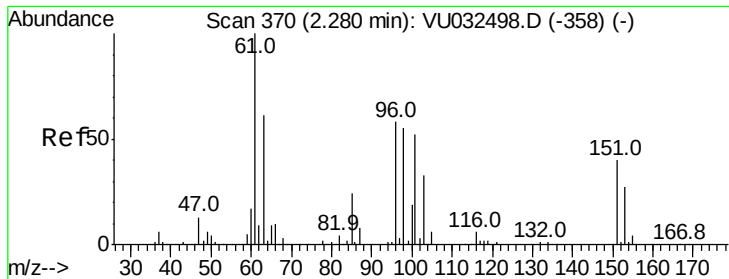
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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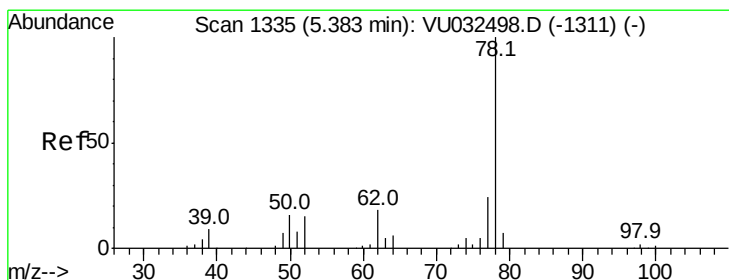
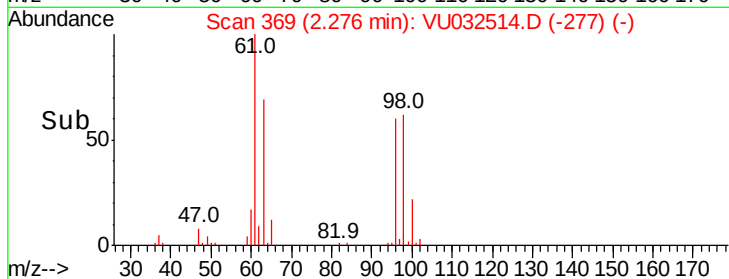
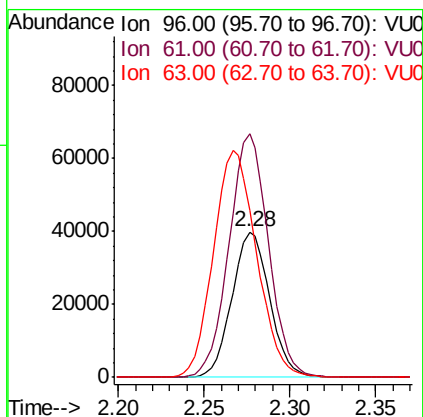
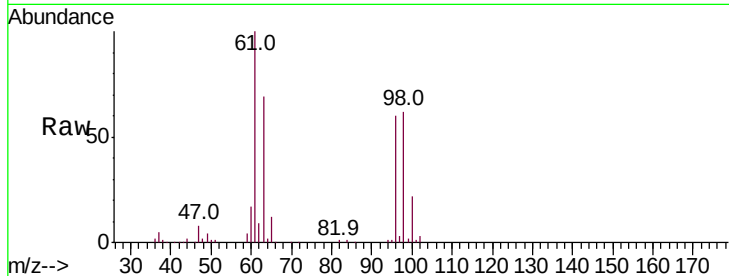




#12  
 1,1-Dichloroethene  
 Concen: 48.229 ug/L  
 RT: 2.28 min Scan# 369  
 Delta R.T. -0.00 min  
 Lab File: VU032514.D  
 Acq: 06 Jun 2019 21:55

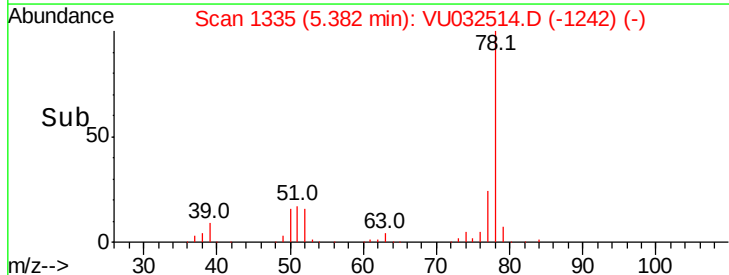
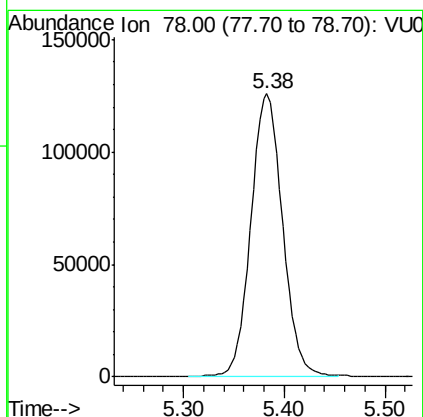
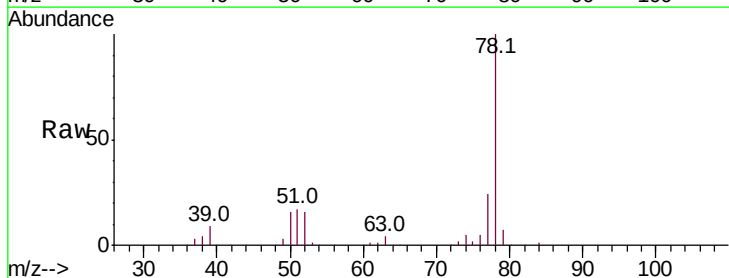
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8K9MSD

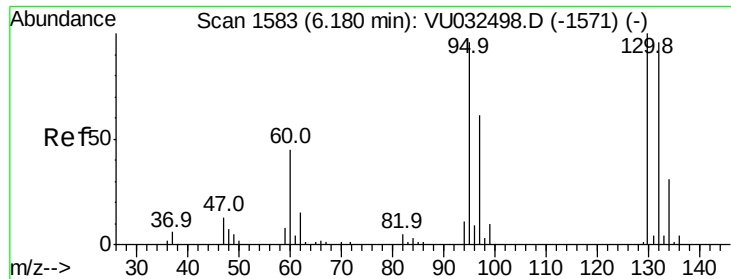
Tot Ion: 96 Resp: 60622  
 Ion Ratio Lower Upper  
 96 100  
 61 167.5 129.5 240.5  
 63 114.8 103.4 192.0



#33  
 Benzene  
 Concen: 47.965 ug/L  
 RT: 5.38 min Scan# 1335  
 Delta R.T. -0.00 min  
 Lab File: VU032514.D  
 Acq: 06 Jun 2019 21:55

Tgt Ion: 78 Resp: 274075





#34

Trichloroethene

Concen: 45.190 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU032514.D

Acq: 06 Jun 2019 21:55

Instrument :

MSVOA\_U

ClientSampleId :

DB8K9MSD

Tot Ion: 95 Resp: 70252

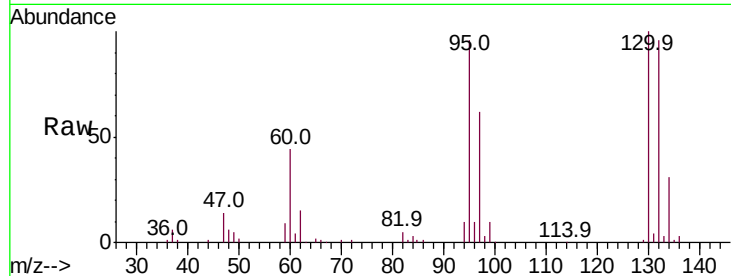
Ion Ratio Lower Upper

95 100

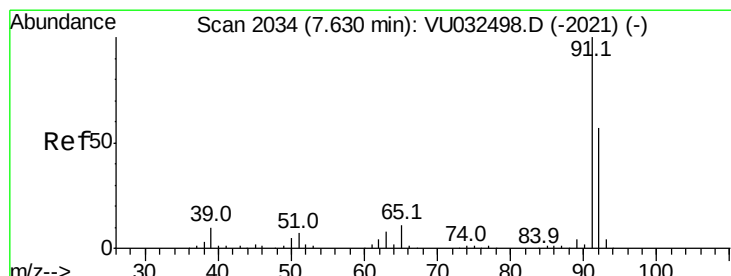
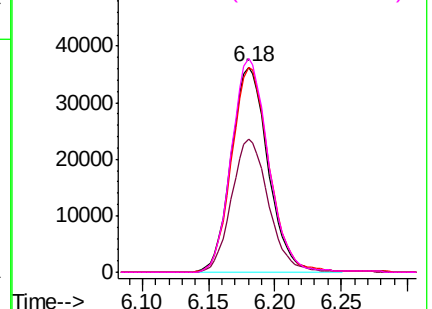
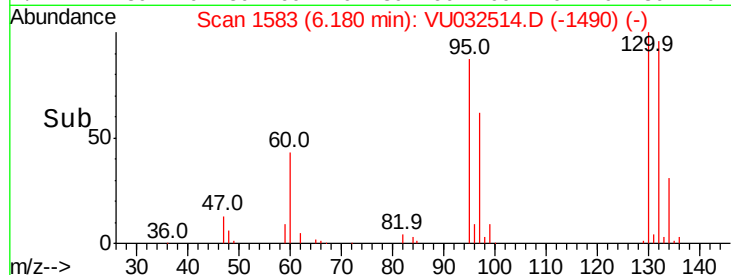
97 65.1 45.8 85.2

132 99.8 71.0 131.8

130 104.2 73.4 136.2



Abundance Ion 95.00 (94.70 to 95.70): VU032514.D (-1490) (-)



#42

Toluene

Concen: 48.223 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU032514.D

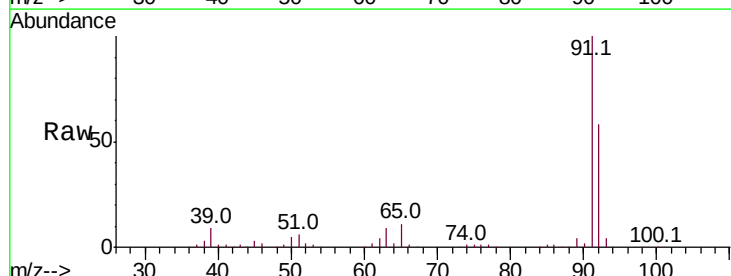
Acq: 06 Jun 2019 21:55

Tgt Ion: 91 Resp: 301771

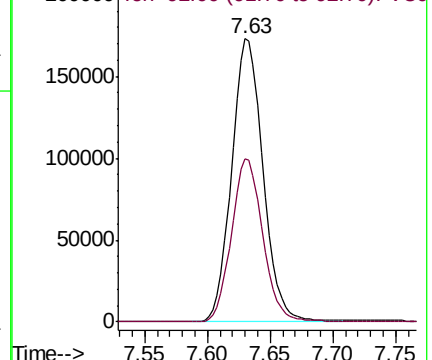
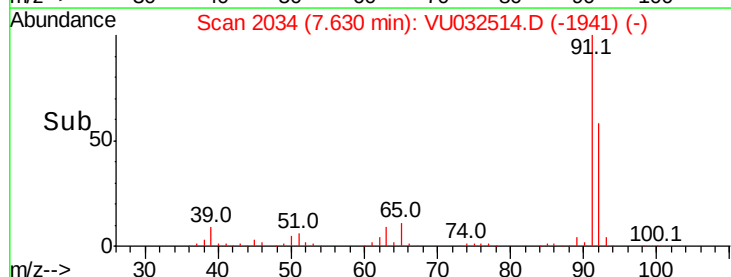
Ion Ratio Lower Upper

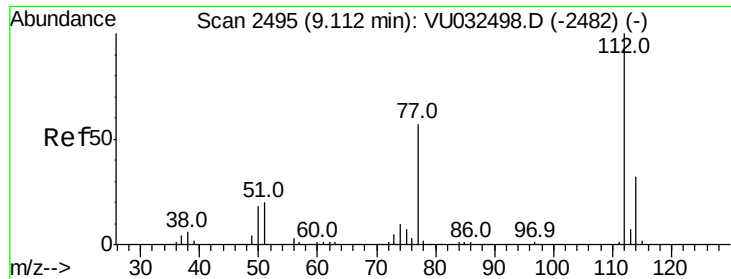
91 100

92 57.8 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU032514.D (-1941) (-)





#51  
 Chlorobenzene  
 Concen: 49.057 ug/L  
 RT: 9.11 min Scan# 2495  
 Delta R.T. -0.00 min  
 Lab File: VU032514.D  
 Acq: 06 Jun 2019 21:55

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8K9MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 31.4  | 22.6  | 42.0  |
| 77      | 56.4  | 46.1  | 69.1  |

