

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060319\  
 Data File : VU032418.D  
 Acq On : 04 Jun 2019 01:32  
 Operator : JC/SP  
 Sample : K3081-11MSD  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GALD9MSD

Quant Time: Jun 04 09:18:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 04 08:55:15 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 102646   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 96614    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 43781    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 40746    | 4.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 84.60%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 34828    | 3.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 67.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 86972    | 3.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 77.20%  |
| 20) 2-Butanone-d5              | 4.18   | 46    | 110830   | 49.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 98.86%  |
| 24) Chloroform-d               | 4.64   | 84    | 65297    | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.30   | 65    | 40729    | 5.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 100.60% |
| 32) Benzene-d6                 | 5.33   | 84    | 133327   | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.32   | 67    | 44680    | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.80%  |
| 41) Toluene-d8                 | 7.56   | 98    | 123637   | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.00%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 19408    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.60%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 95478    | 51.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 103.26% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 36744    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85  | 152   | 42229    | 5.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.60% |

## Target Compounds

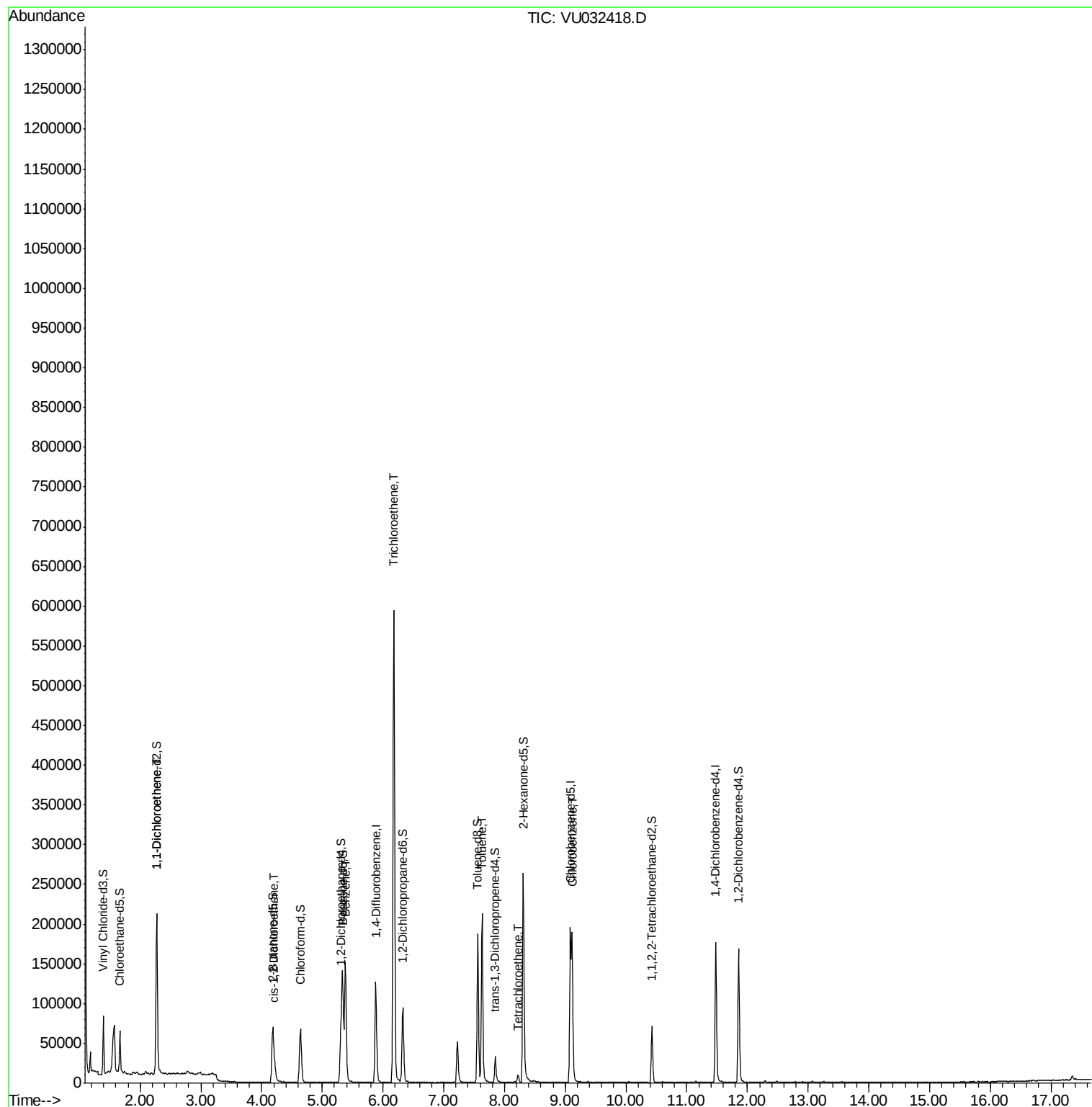
|                            |      |     |        | Ovalue          |
|----------------------------|------|-----|--------|-----------------|
| 12) 1,1-Dichloroethene     | 2.28 | 96  | 37549  | 2.661 ug/L # 81 |
| 22) cis-1,2-Dichloroethene | 4.21 | 96  | 5922   | 0.391 ug/L 98   |
| 33) Benzene                | 5.38 | 78  | 144406 | 2.559 ug/L 100  |
| 34) Trichloroethene        | 6.18 | 95  | 204636 | 13.374 ug/L 98  |
| 42) Toluene                | 7.63 | 91  | 155603 | 2.559 ug/L 99   |
| 47) Tetrachloroethene      | 8.22 | 164 | 2043   | 0.191 ug/L 91   |
| 51) Chlorobenzene          | 9.12 | 112 | 93311  | 2.436 ug/L 99   |

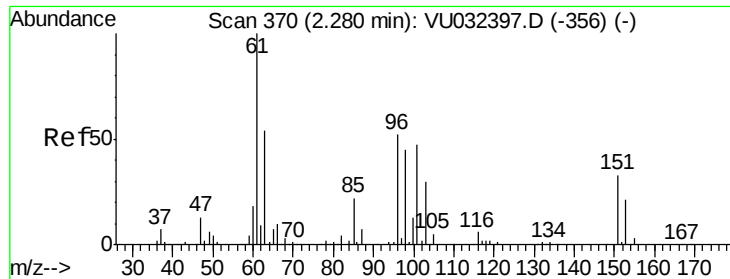
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jun 04 08:55:15 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 2.661 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU032418.D

Acq: 04 Jun 2019 01:32

Instrument :

MSVOA\_U

ClientSampleId :

GALD9MSD

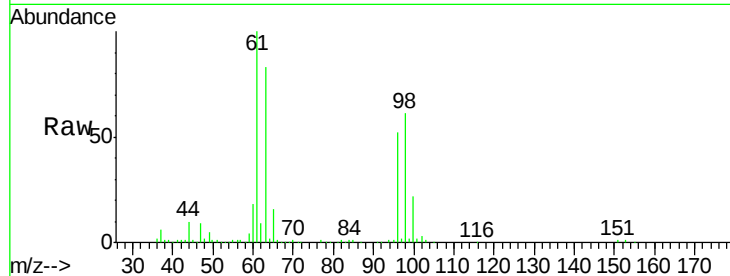
Tot Ion: 96 Resp: 37549

Ion Ratio Lower Upper

96 100

61 191.0 133.6 248.0

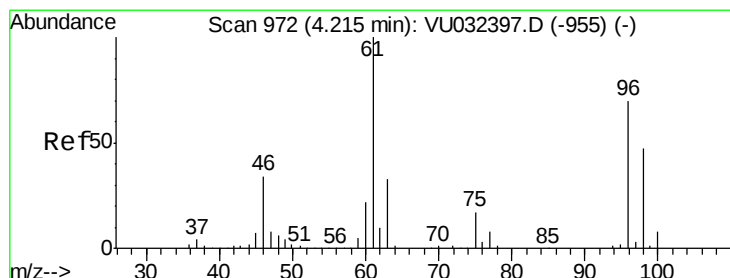
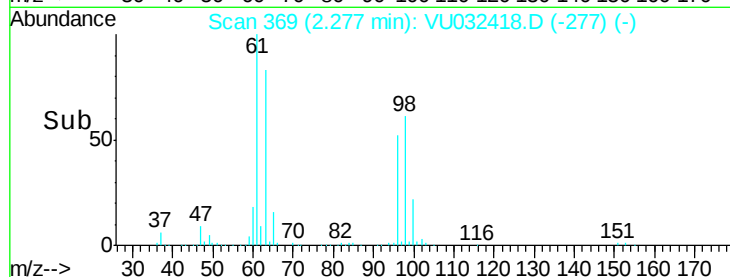
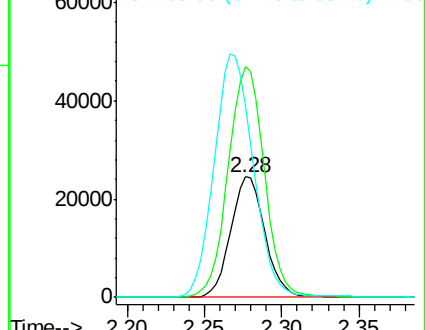
63 158.1 72.4 134.4#



Abundance Ion 96.00 (95.70 to 96.70): VU032397.D (-356) (-)

Ion 61.05 (60.75 to 61.75): VU032397.D (-356) (-)

Ion 63.00 (62.70 to 63.70): VU032397.D (-356) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.391 ug/L

RT: 4.21 min Scan# 971

Delta R.T. -0.00 min

Lab File: VU032418.D

Acq: 04 Jun 2019 01:32

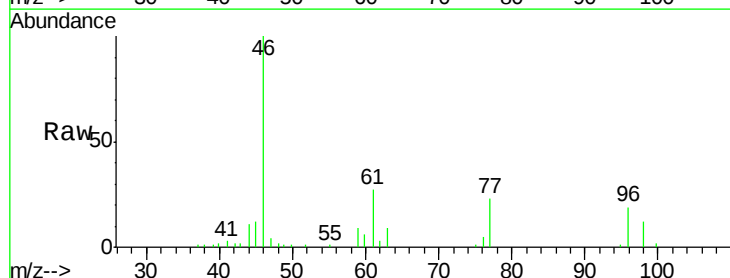
Tgt Ion: 96 Resp: 5922

Ion Ratio Lower Upper

96 100

61 143.9 99.0 183.8

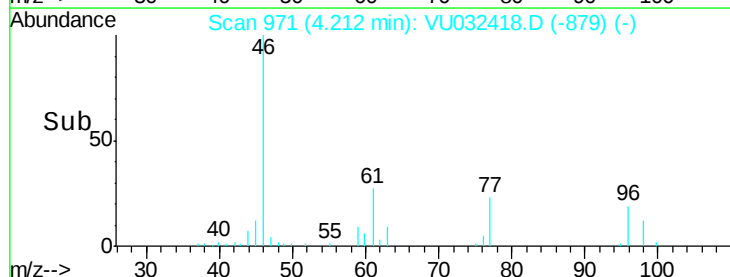
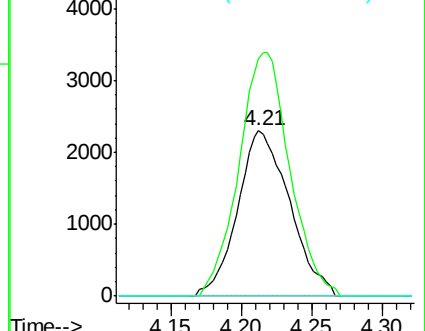
68 0.0 0.0 0.0

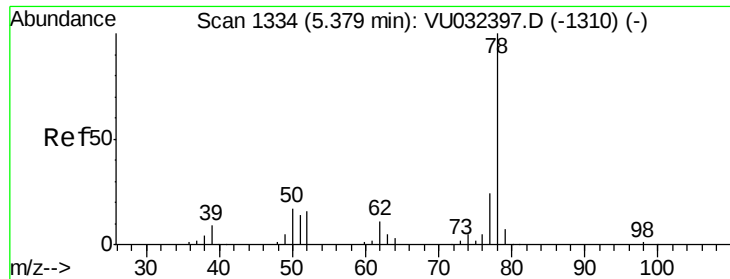


Abundance Ion 96.00 (95.70 to 96.70): VU032397.D (-955) (-)

Ion 61.05 (60.75 to 61.75): VU032397.D (-955) (-)

Ion 68.15 (67.85 to 68.85): VU032397.D (-955) (-)

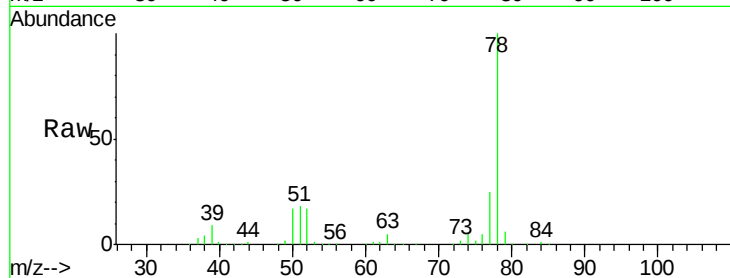




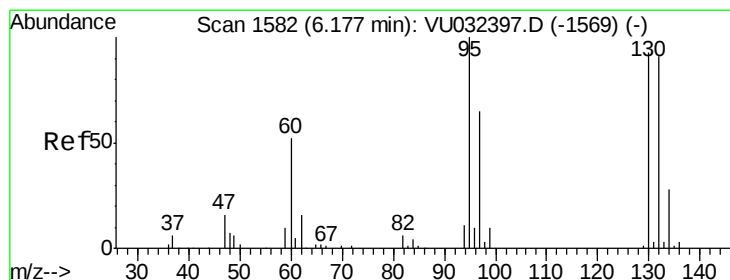
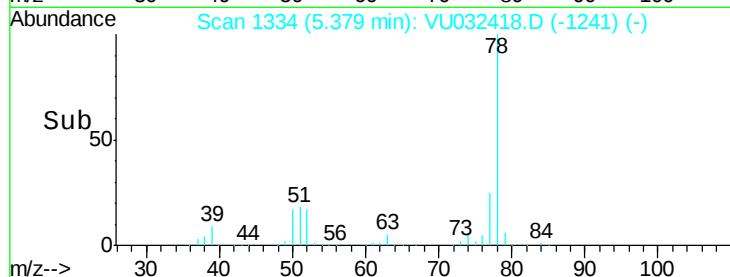
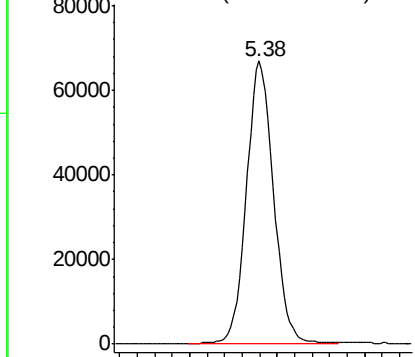
#33  
Benzene  
Concen: 2.559 ug/L  
RT: 5.38 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VU032418.D  
Acq: 04 Jun 2019 01:32

Instrument :  
MSVOA\_U  
ClientSampleId :  
GALD9MSD

Tgt Ion: 78 Resp: 144406



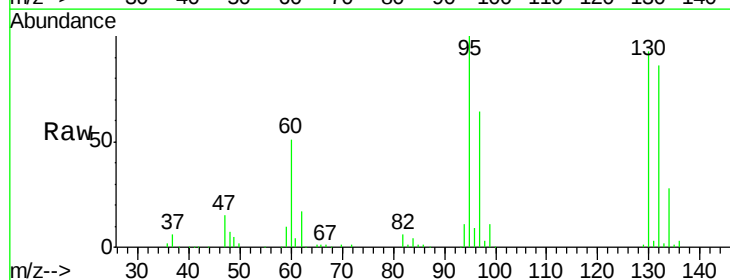
Abundance Ion 78.10 (77.80 to 78.80): VU0



#34  
Trichloroethene  
Concen: 13.374 ug/L  
RT: 6.18 min Scan# 1582  
Delta R.T. 0.00 min  
Lab File: VU032418.D  
Acq: 04 Jun 2019 01:32

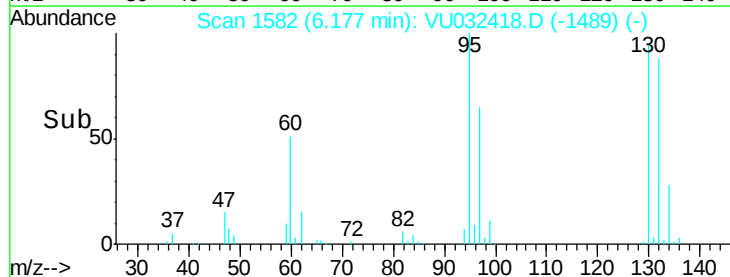
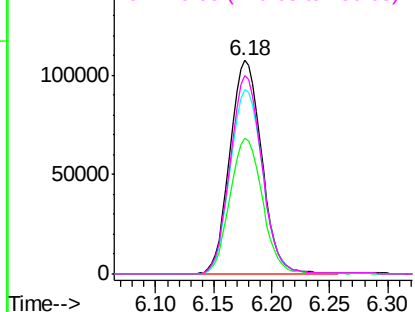
Tgt Ion: 95 Resp: 204636

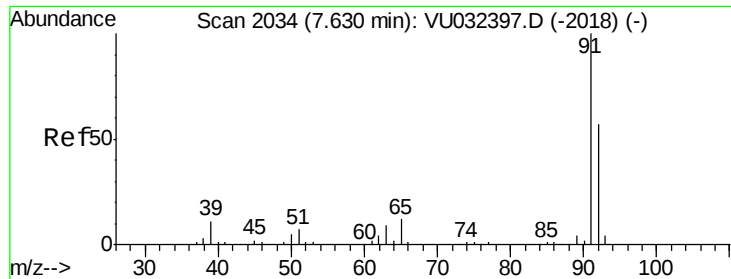
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 63.8  | 45.8  | 85.0  |
| 132 | 86.4  | 63.1  | 117.1 |
| 130 | 93.2  | 66.0  | 122.6 |



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0  
Ion 131.95 (131.65 to 132.65): V  
Ion 129.95 (129.65 to 130.65): V





#42

Toluene

Concen: 2.559 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU032418.D

Acq: 04 Jun 2019 01:32

Instrument :

MSVOA\_U

ClientSampleId :

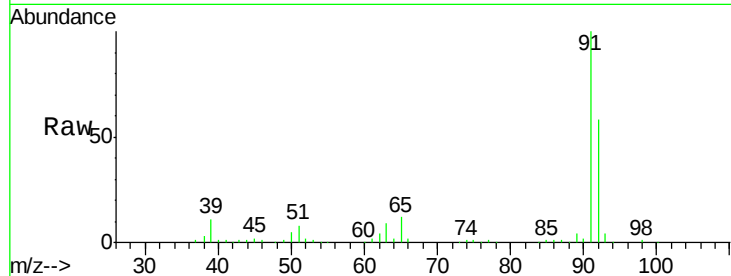
GALD9MSD

Tot Ion: 91 Resp: 155603

Ion Ratio Lower Upper

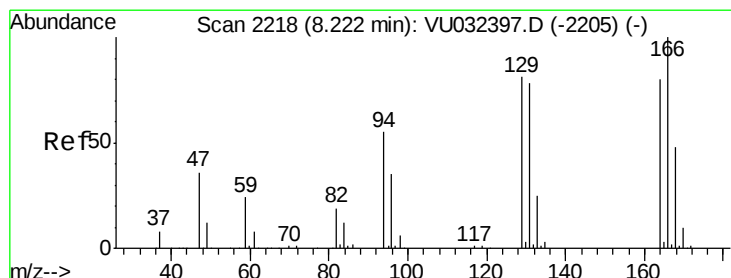
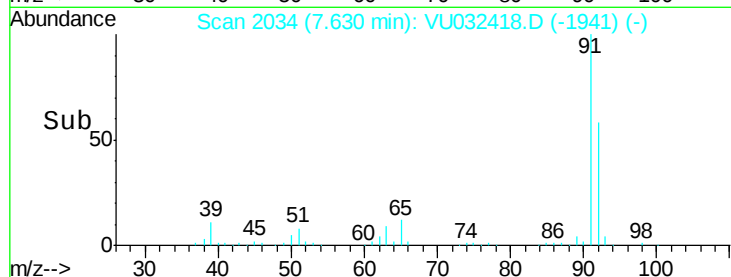
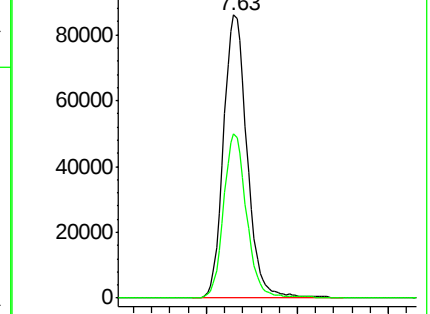
91 100

92 58.0 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU032418.D (-2125) (-)

Ion 92.15 (91.85 to 92.85): VU032418.D (-2125) (-)



#47

Tetrachloroethene

Concen: 0.191 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU032418.D

Acq: 04 Jun 2019 01:32

Tgt Ion: 164 Resp: 2043

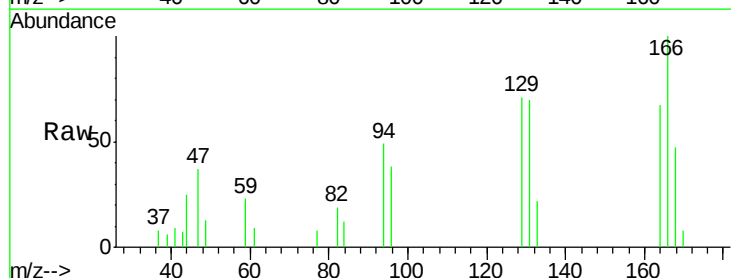
Ion Ratio Lower Upper

164 100

129 105.9 72.1 133.9

131 104.3 71.9 133.5

166 149.0 89.0 165.4

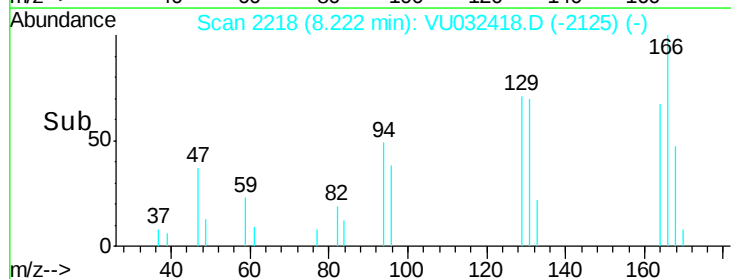
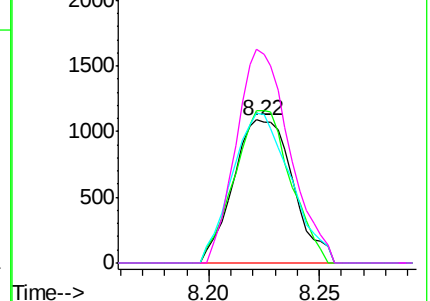


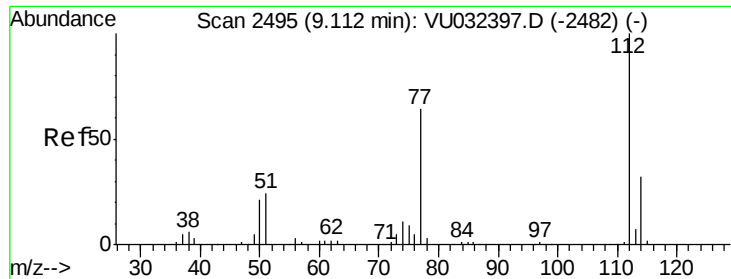
Abundance Ion 163.90 (163.60 to 164.60): VU032418.D (-2125) (-)

Ion 128.95 (128.65 to 129.65): VU032418.D (-2125) (-)

Ion 130.95 (130.65 to 131.65): VU032418.D (-2125) (-)

Ion 165.90 (165.60 to 166.60): VU032418.D (-2125) (-)





#51

Chlorobenzene

Concen: 2.436 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU032418.D

Acq: 04 Jun 2019 01:32

Instrument :

MSVOA\_U

ClientSampleId :

GALD9MSD

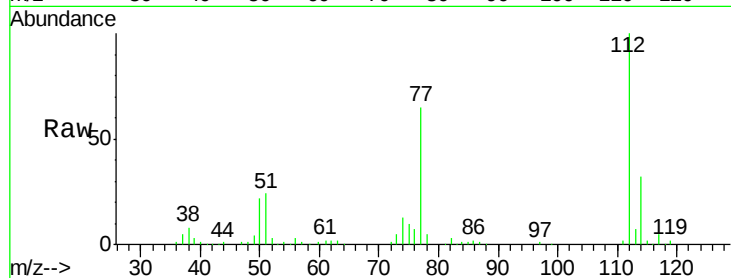
Tot Ion:112 Resp: 93311

Ion Ratio Lower Upper

112 100

114 31.7 22.1 41.1

77 64.8 51.0 76.6



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0

