

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030420\  
 Data File : VU037069.D  
 Acq On : 05 Mar 2020 03:59  
 Operator : JC/MD  
 Sample : L1780-18  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0DJ7

Quant Time: Mar 05 04:38:16 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Mar 05 02:52:45 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 260932   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 245888   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 83253    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 93721    | 42.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 85.54%  |
| 7) Chloroethane-d5             | 1.92    | 69    | 89625    | 49.43    | ug/L | 0.02    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 98.86%  |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 123891   | 33.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.52%  |
| 21) 2-Butanone-d5              | 4.67    | 46    | 155477   | 105.78   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.78% |
| 24) Chloroform-d               | 5.11    | 84    | 170059   | 50.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.64% |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 117779   | 52.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.02% |
| 32) Benzene-d6                 | 5.76    | 84    | 369047   | 51.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.80% |
| 36) 1,2-Dichloropropane-d6     | 6.72    | 67    | 124386   | 53.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 107.98% |
| 41) Toluene-d8                 | 7.92    | 98    | 327615   | 49.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.32%  |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 49048    | 45.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.62%  |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 107947   | 95.83    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 95.83%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77   | 84    | 170683   | 52.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 105.10% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 90393    | 55.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 111.08% |

## Target Compounds

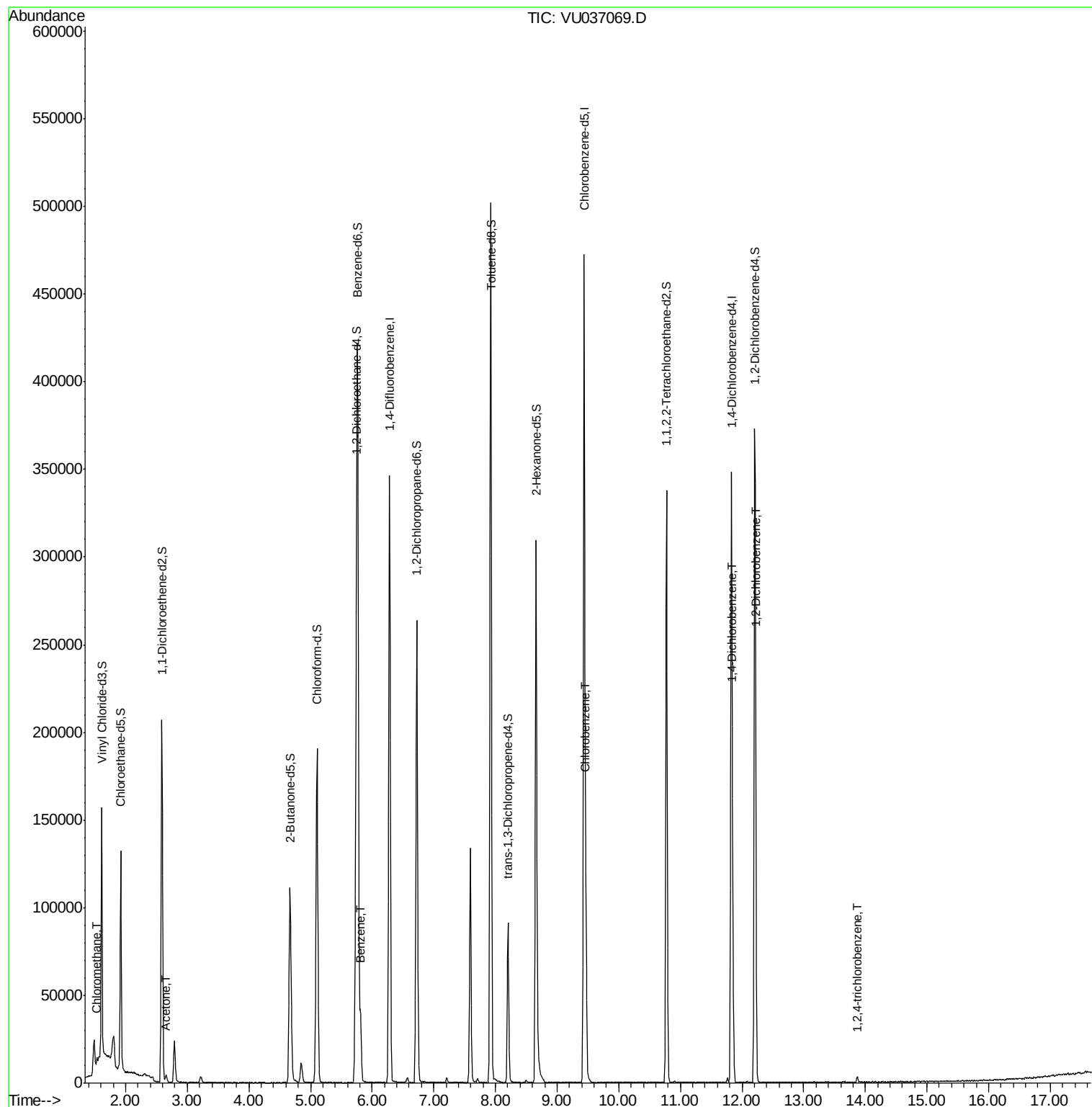
|                            |       |     |       |             | Ovalue |
|----------------------------|-------|-----|-------|-------------|--------|
| 3) Chloromethane           | 1.53  | 50  | 3113  | 1.223 ug/L  | 99     |
| 13) Acetone                | 2.66  | 43  | 3444  | 2.278 ug/L  | 99     |
| 33) Benzene                | 5.81  | 78  | 35346 | 4.550 ug/L  | 100    |
| 51) Chlorobenzene          | 9.47  | 112 | 49641 | 10.123 ug/L | 99     |
| 63) 1,4-Dichlorobenzene    | 11.85 | 146 | 22523 | 8.441 ug/L  | 99     |
| 65) 1,2-Dichlorobenzene    | 12.23 | 146 | 12515 | 4.641 ug/L  | 91     |
| 68) 1,2,4-trichlorobenzene | 13.87 | 180 | 1198  | 0.933 ug/L  | 94     |

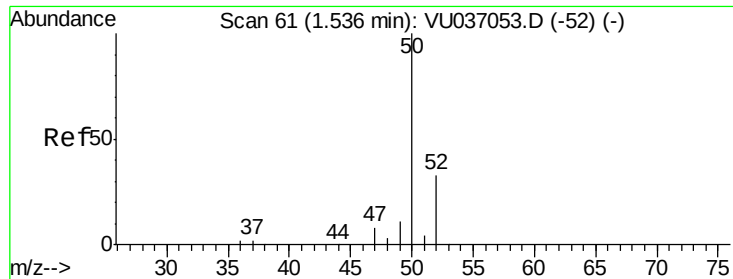
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Thu Mar 05 02:52:45 2020  
Response via : Initial Calibration





#3

Chloromethane

Concen: 1.223 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037069.D

Acq: 05 Mar 2020 03:59

Instrument :

MSVOA\_U

ClientSampleId :

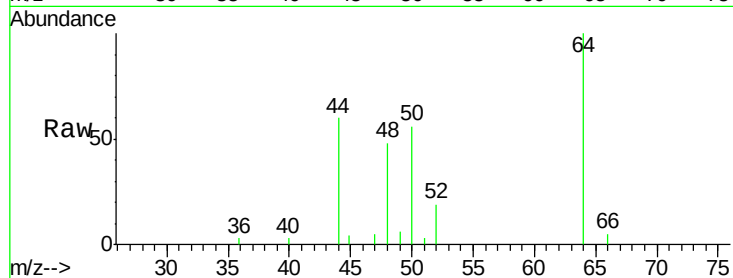
C0DJ7

Tot Ion: 50 Resp: 3113

Ion Ratio Lower Upper

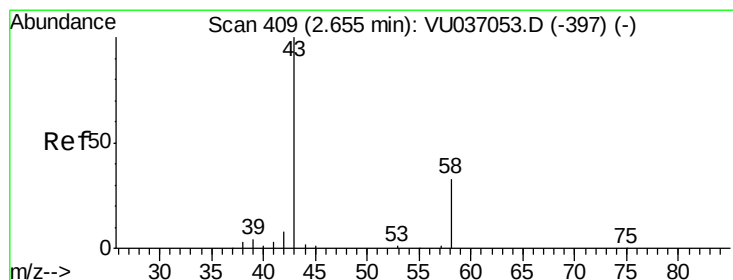
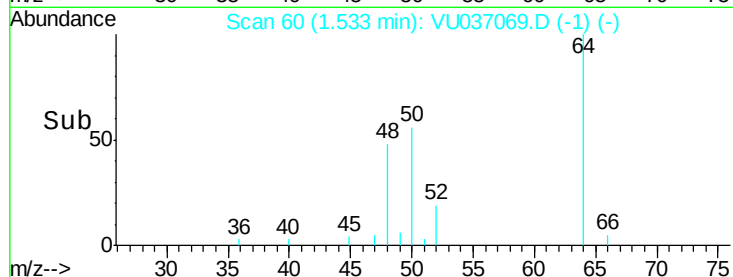
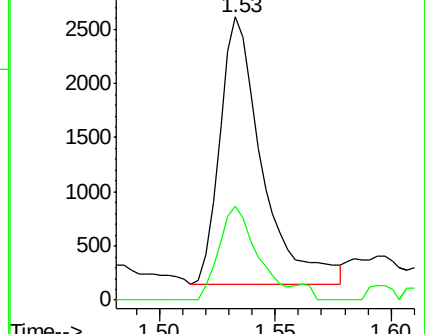
50 100

52 33.2 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU037069.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU037069.D (-1) (-)



#13

Acetone

Concen: 2.278 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU037069.D

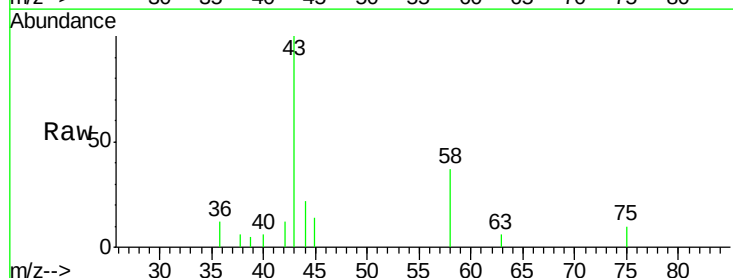
Acq: 05 Mar 2020 03:59

Tgt Ion: 43 Resp: 3444

Ion Ratio Lower Upper

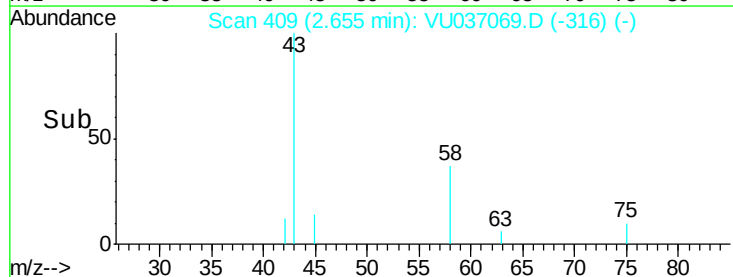
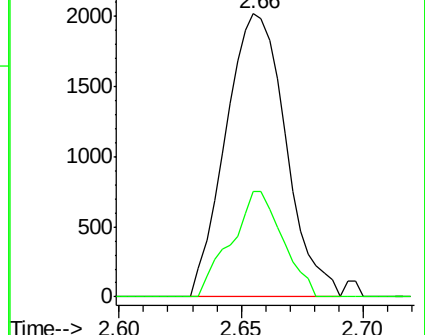
43 100

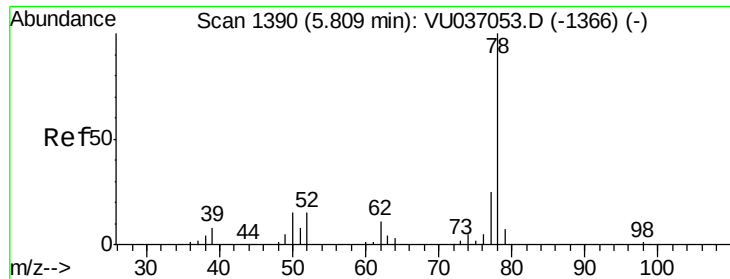
58 32.0 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU037069.D (-316) (-)

Ion 58.00 (57.70 to 58.70): VU037069.D (-316) (-)





#33

Benzene

Concen: 4.550 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU037069.D

Acq: 05 Mar 2020 03:59

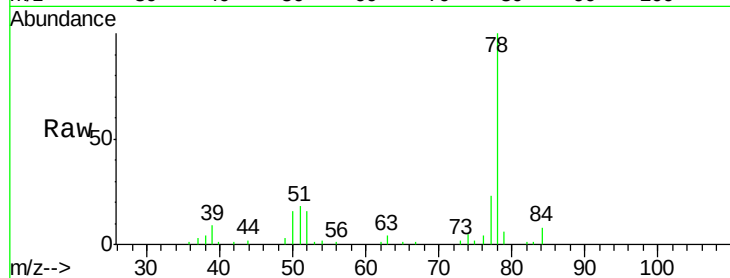
Instrument :

MSVOA\_U

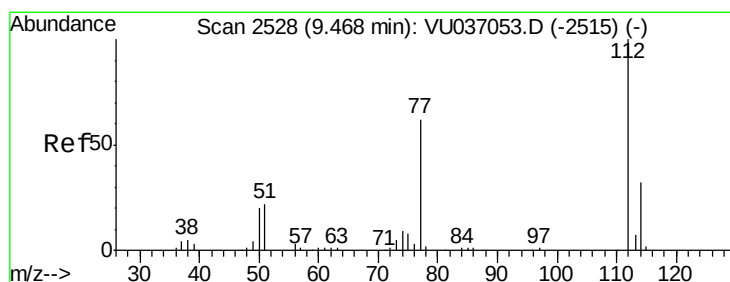
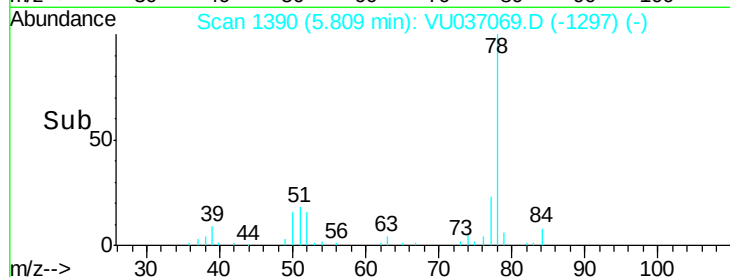
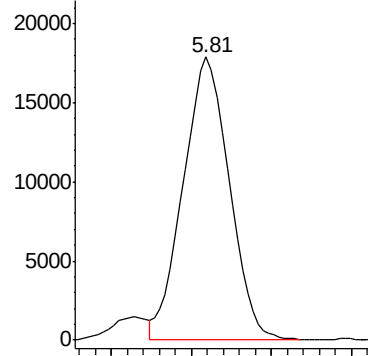
ClientSampled :

C0DJ7

Tgt Ion: 78 Resp: 35346



Abundance Ion 78.00 (77.70 to 78.70): VU0



#51

Chlorobenzene

Concen: 10.123 ug/L

RT: 9.47 min Scan# 2528

Delta R.T. -0.00 min

Lab File: VU037069.D

Acq: 05 Mar 2020 03:59

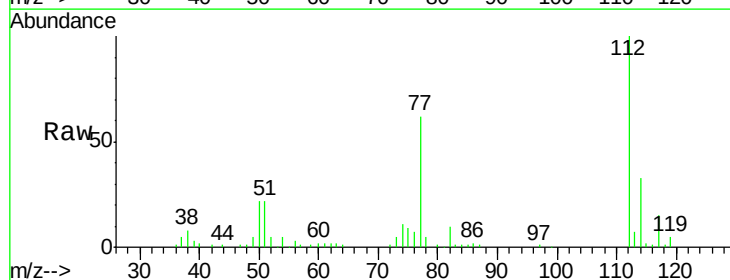
Tgt Ion: 112 Resp: 49641

Ion Ratio Lower Upper

112 100

114 32.9 22.3 41.5

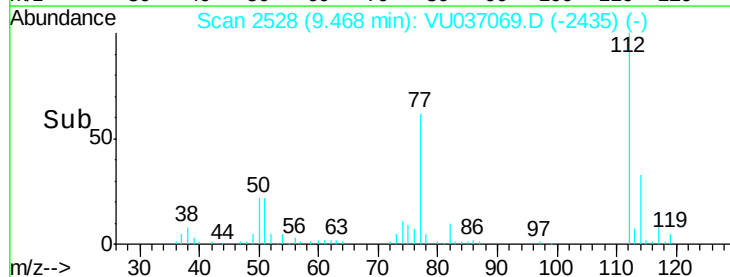
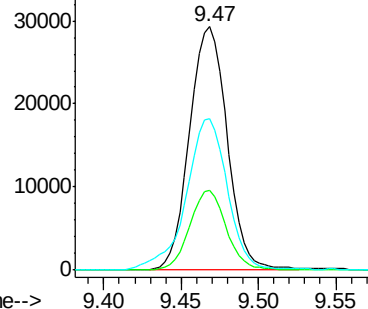
77 62.0 50.1 75.1

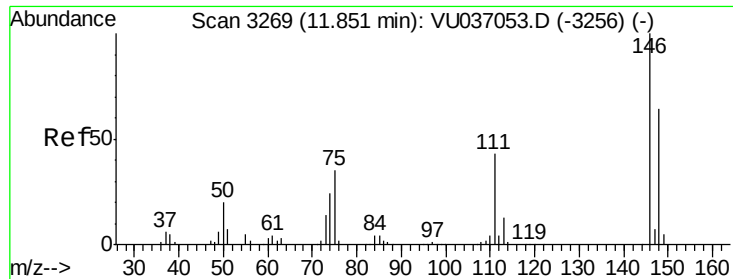


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#63

1,4-Dichlorobenzene

Concen: 8.441 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. -0.00 min

Lab File: VU037069.D

Acq: 05 Mar 2020 03:59

Instrument :

MSVOA\_U

ClientSampleId :

C0DJ7

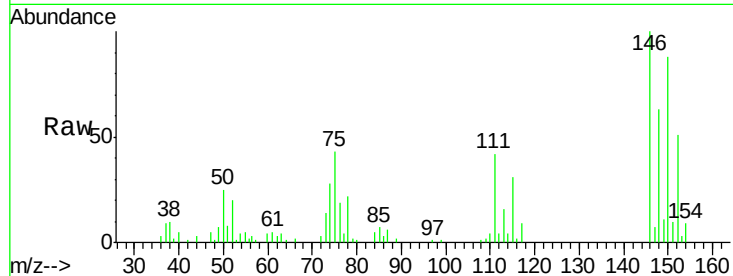
Tot Ion:146 Resp: 22523

Ion Ratio Lower Upper

146 100

111 42.3 29.8 55.4

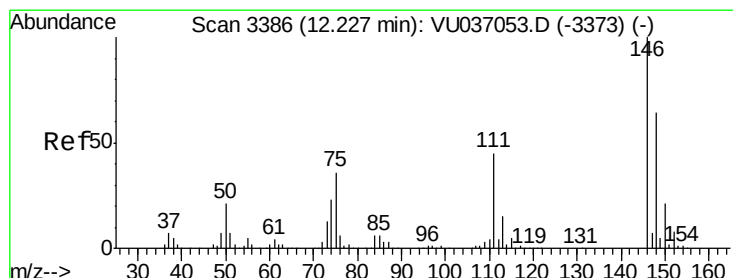
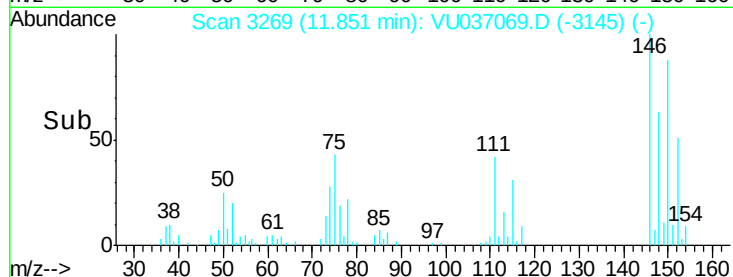
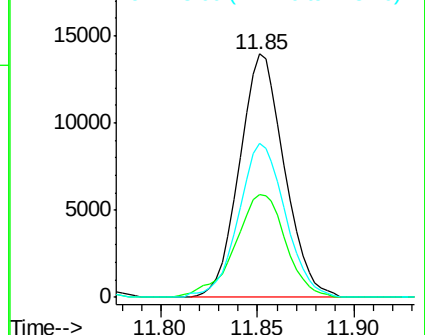
148 63.4 45.1 83.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 4.641 ug/L

RT: 12.23 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VU037069.D

Acq: 05 Mar 2020 03:59

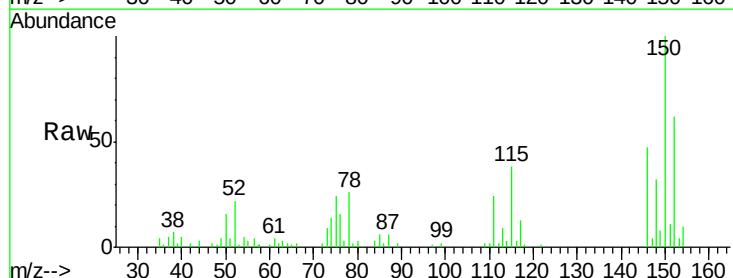
Tgt Ion:146 Resp: 12515

Ion Ratio Lower Upper

146 100

111 50.7 35.4 53.0

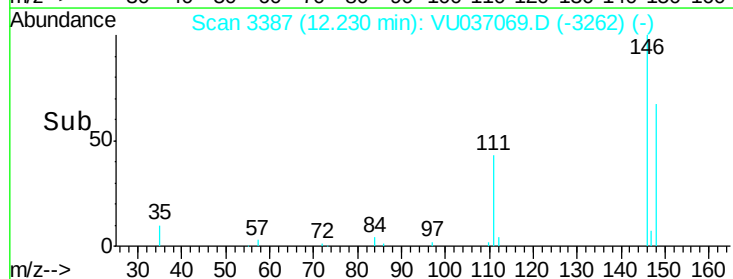
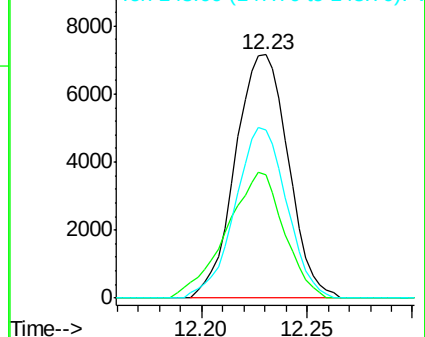
148 69.3 50.5 75.7

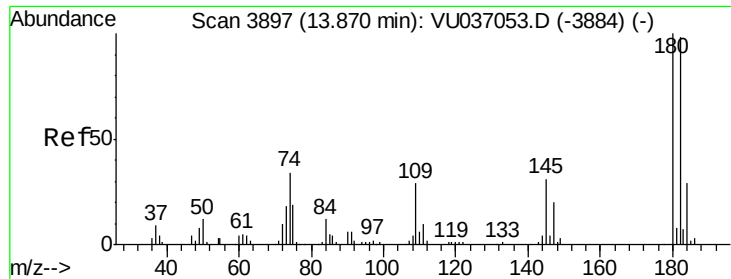


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#68

1,2,4-trichlorobenzene

Concen: 0.933 ug/L

RT: 13.87 min Scan# 3897

Delta R.T. -0.00 min

Lab File: VU037069.D

Acq: 05 Mar 2020 03:59

Instrument :

MSVOA\_U

ClientSampleId :

C0DJ7

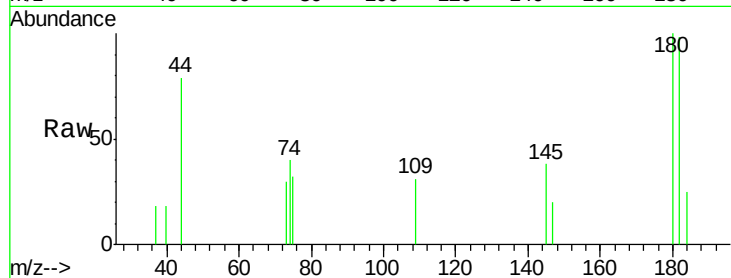
Tot Ion:180 Resp: 1198

Ion Ratio Lower Upper

180 100

182 100.1 75.3 112.9

145 35.5 26.2 39.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

