

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV111818\  
 Data File : VV008628.D  
 Acq On : 17 Nov 2018 14:47  
 Operator : SY/MD  
 Sample : J5990-04  
 Misc : 25.0 mL/MSVOA\_V/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ETO77

Quant Time: Nov 19 06:13:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR111718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Nov 19 02:55:31 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 159552   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 142717   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 65079    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 30917    | 4.36     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 87.20% |
| 7) Chloroethane-d5             | 1.59   | 69    | 27667    | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.80% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 47934    | 3.33     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 66.60% |
| 20) 2-Butanone-d5              | 3.98   | 46    | 118779   | 46.84    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.68% |
| 24) Chloroform-d               | 4.41   | 84    | 88561    | 4.57     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.40% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 47641    | 4.83     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.60% |
| 32) Benzene-d6                 | 5.10   | 84    | 177634   | 4.77     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.40% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 58497    | 4.87     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.40% |
| 41) Toluene-d8                 | 7.36   | 98    | 162136   | 4.64     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.80% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 19671    | 4.30     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 86.00% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 97686    | 47.10    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 94.20% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 40948    | 4.88     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 58029    | 4.94     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.80% |

## Target Compounds

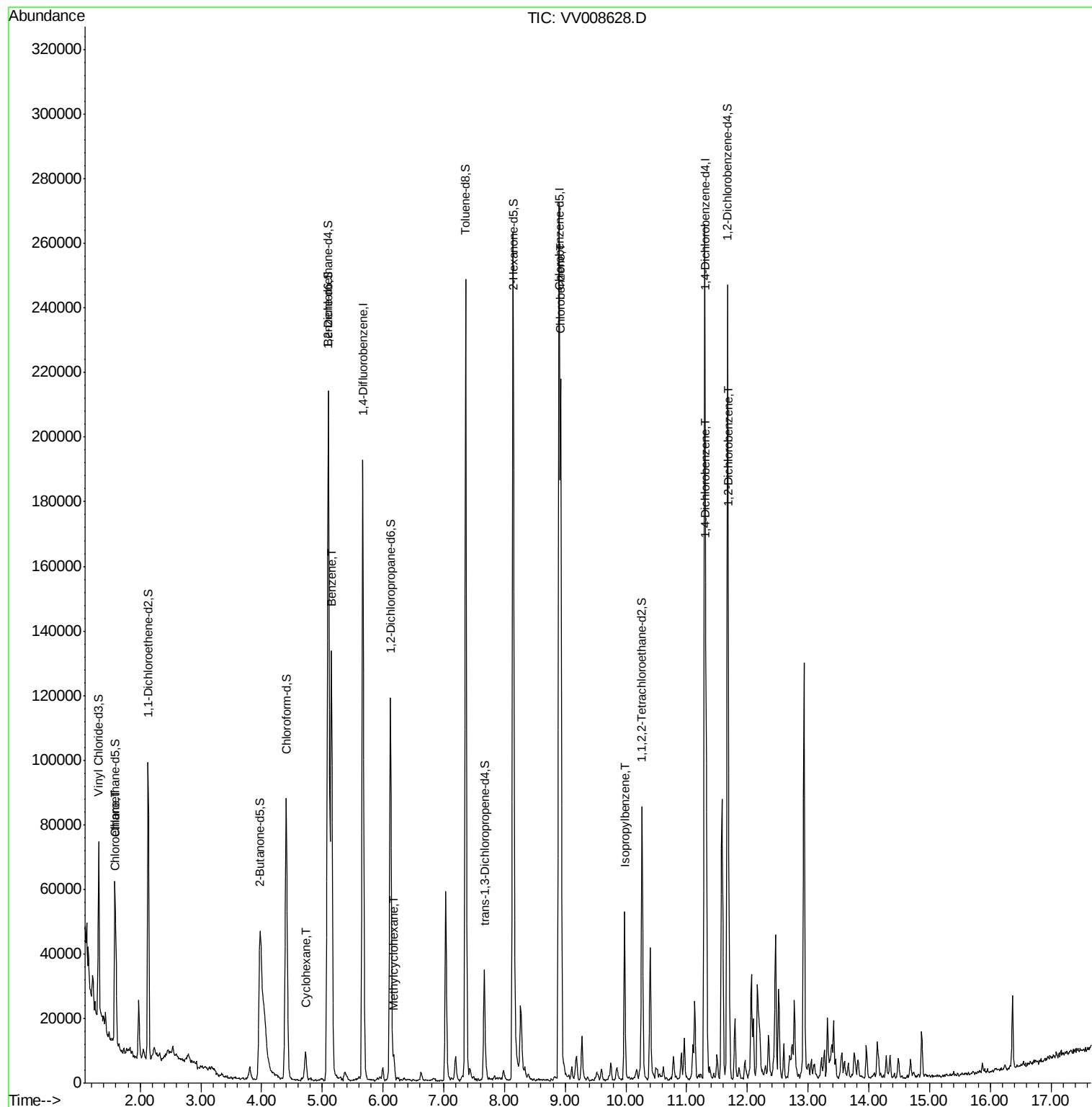
|                         |       |     |        |      |        | Qvalue |
|-------------------------|-------|-----|--------|------|--------|--------|
| 8) Chloroethane         | 1.60  | 64  | 16982  | 2.87 | ug/L   | 97     |
| 30) Cyclohexane         | 4.72  | 56  | 5097   | 0.25 | ug/L   | 90     |
| 33) Benzene             | 5.15  | 78  | 131062 | 2.90 | ug/L   | 100    |
| 35) Methylcyclohexane   | 6.17  | 83  | 2347   | 0.12 | ug/L # | 73     |
| 51) Chlorobenzene       | 8.93  | 112 | 106421 | 3.66 | ug/L   | 98     |
| 56) Isopropylbenzene    | 9.98  | 105 | 31055  | 0.62 | ug/L   | 98     |
| 63) 1,4-Dichlorobenzene | 11.32 | 146 | 33861  | 1.62 | ug/L   | 96     |
| 65) 1,2-Dichlorobenzene | 11.69 | 146 | 4952   | 0.25 | ug/L # | 93     |

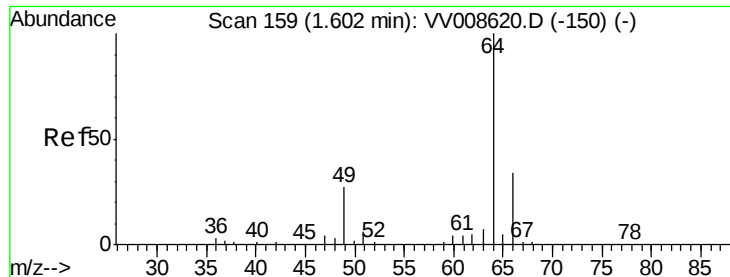
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR111718WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon Nov 19 02:55:31 2018  
Response via : Initial Calibration





#8

Chloroethane

Concen: 2.87 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV008628.D

Acq: 17 Nov 2018 14:47

Instrument :

MSVOA\_V

ClientSampleId :

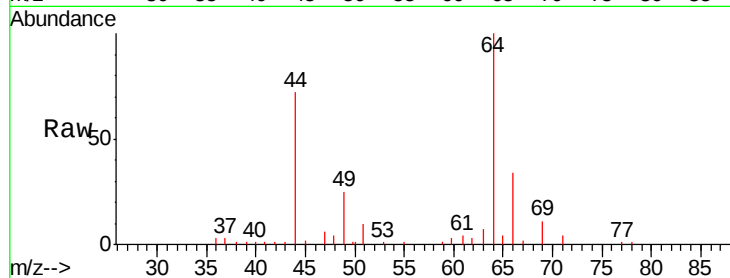
ETO77

Tgt Ion: 64 Resp: 16982

Ion Ratio Lower Upper

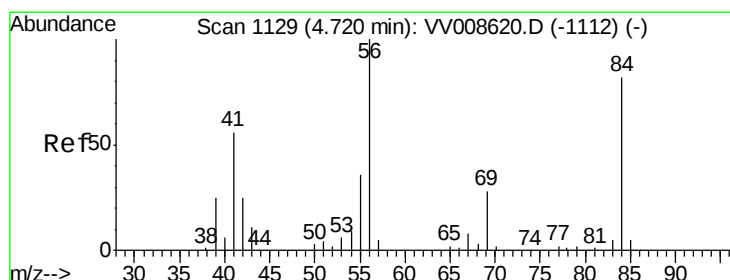
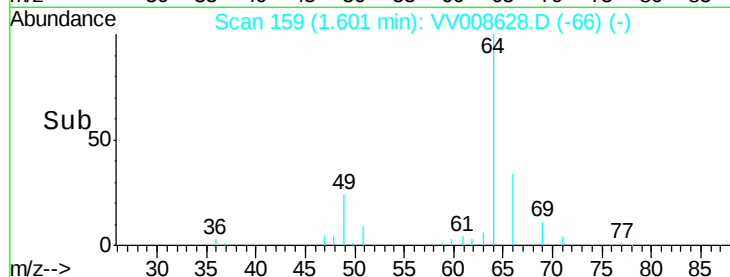
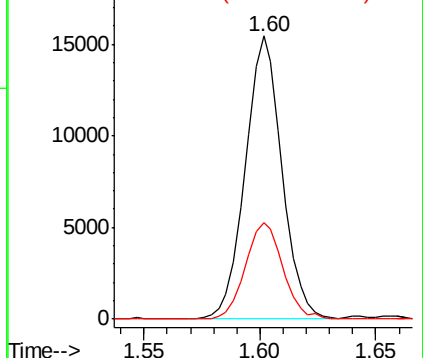
64 100

66 34.2 22.7 42.3



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0



#30

Cyclohexane

Concen: 0.25 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. -0.00 min

Lab File: VV008628.D

Acq: 17 Nov 2018 14:47

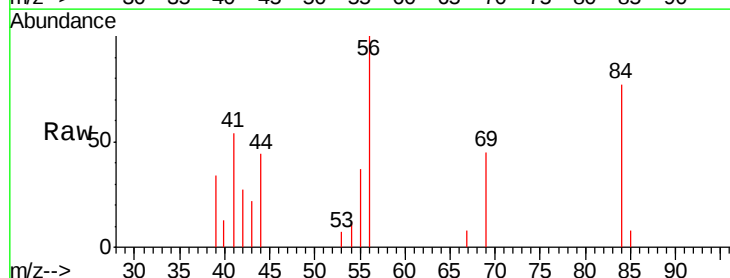
Tgt Ion: 56 Resp: 5097

Ion Ratio Lower Upper

56 100

69 32.9 24.2 36.4

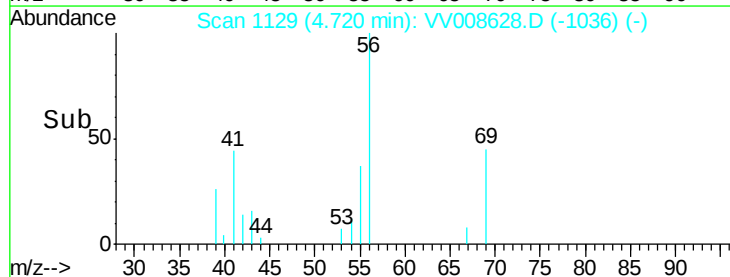
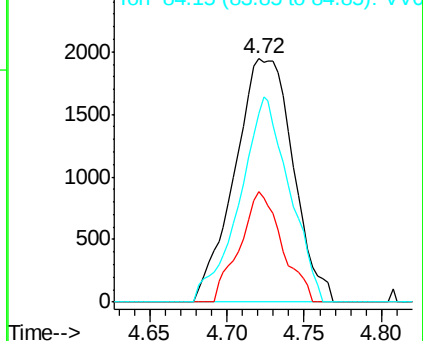
84 71.9 65.7 98.5

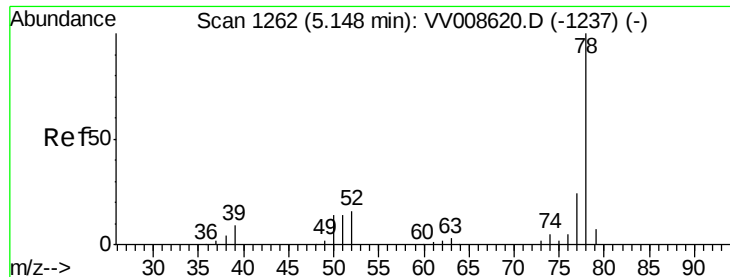


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#33

Benzene

Concen: 2.90 ug/L

RT: 5.15 min Scan# 1262

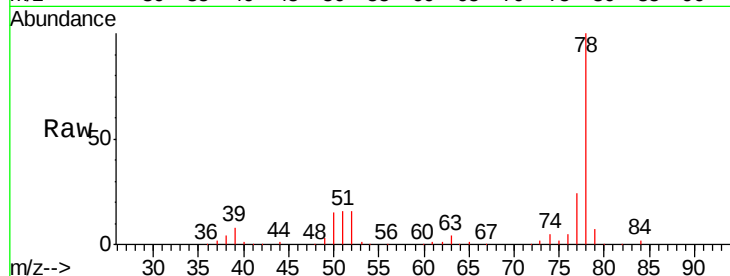
Delta R.T. -0.00 min

Lab File: VV008628.D

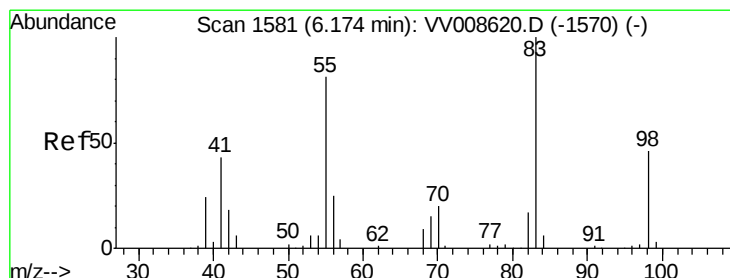
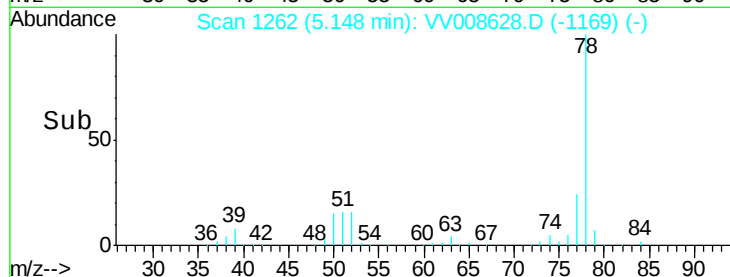
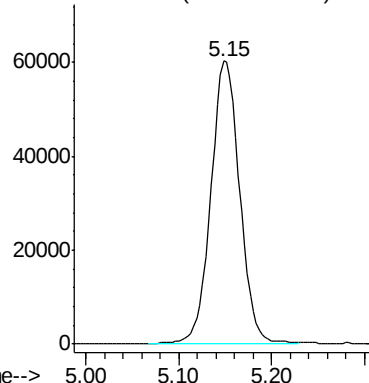
Acq: 17 Nov 2018 14:47

Instrument :  
MSVOA\_V  
ClientSampleId :  
ETO77

Tgt Ion: 78 Resp: 131062



Abundance Ion 78.10 (77.80 to 78.80): VV0



#35

Methylcyclohexane

Concen: 0.12 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV008628.D

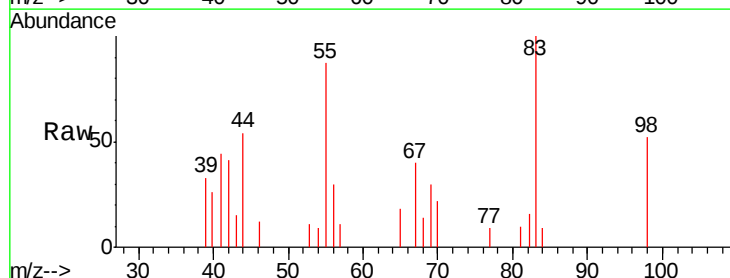
Acq: 17 Nov 2018 14:47

Tgt Ion: 83 Resp: 2347

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |

|    |       |      |       |
|----|-------|------|-------|
| 55 | 111.5 | 65.6 | 98.4# |
|----|-------|------|-------|

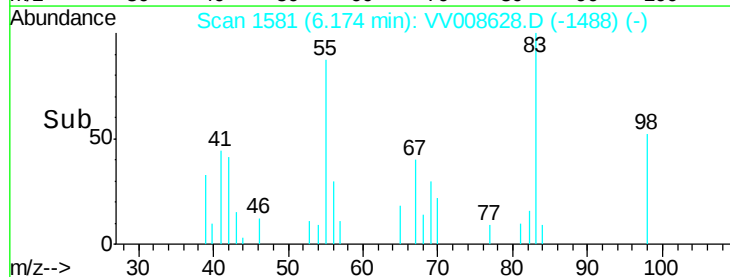
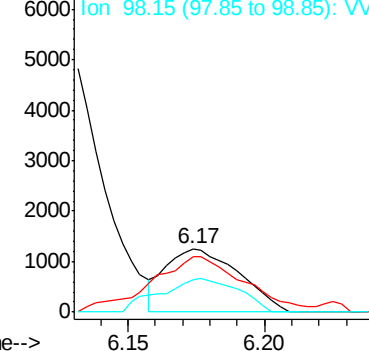
|    |      |      |       |
|----|------|------|-------|
| 98 | 56.2 | 36.4 | 54.6# |
|----|------|------|-------|

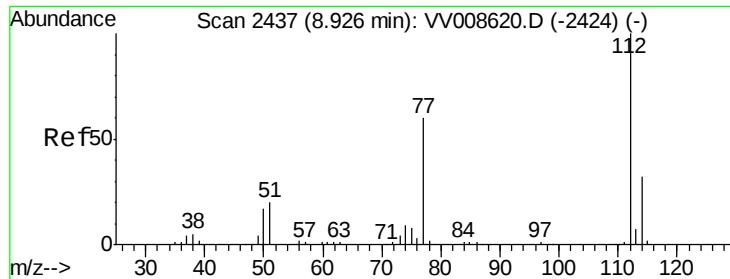


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#51

Chlorobenzene

Concen: 3.66 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV008628.D

Acq: 17 Nov 2018 14:47

Instrument :  
MSVOA\_V  
ClientSampleId :  
ETO77

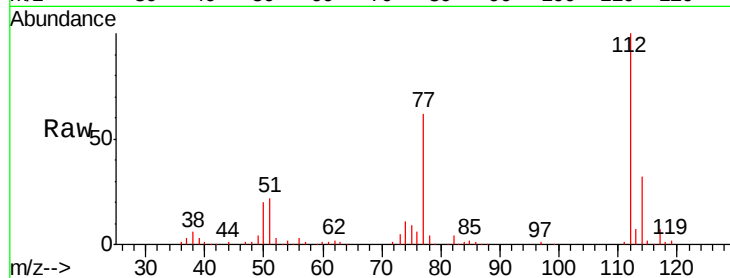
Tgt Ion:112 Resp: 106421

Ion Ratio Lower Upper

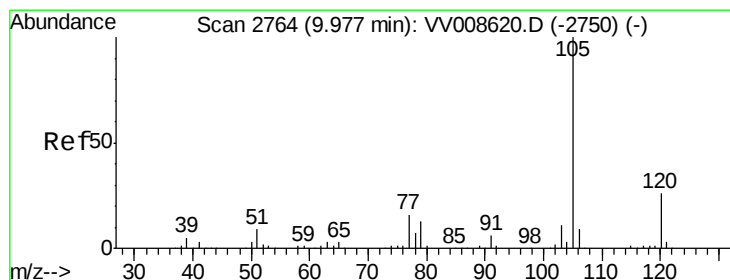
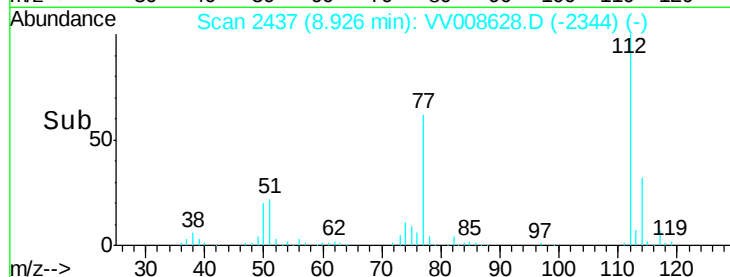
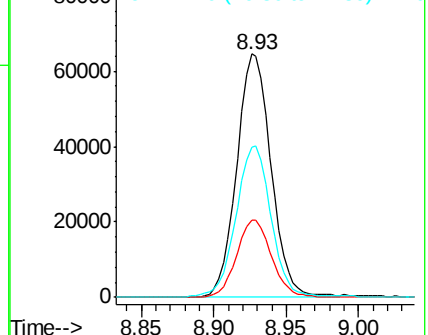
112 100

114 31.5 21.9 40.7

77 61.8 47.9 71.9



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): VV0



#56

Isopropylbenzene

Concen: 0.62 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV008628.D

Acq: 17 Nov 2018 14:47

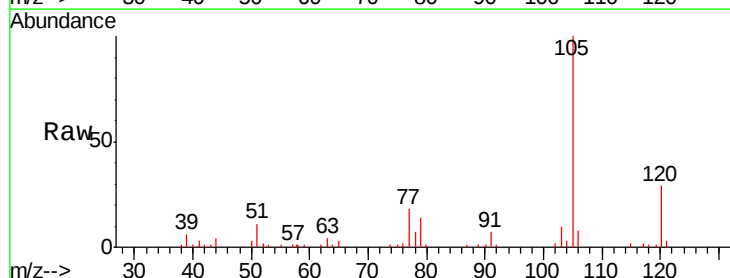
Tgt Ion:105 Resp: 31055

Ion Ratio Lower Upper

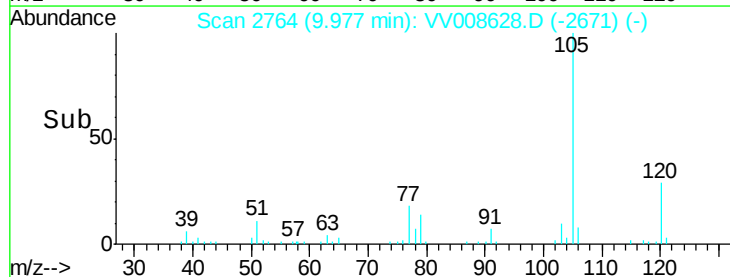
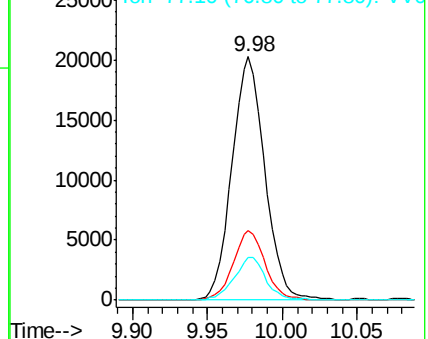
105 100

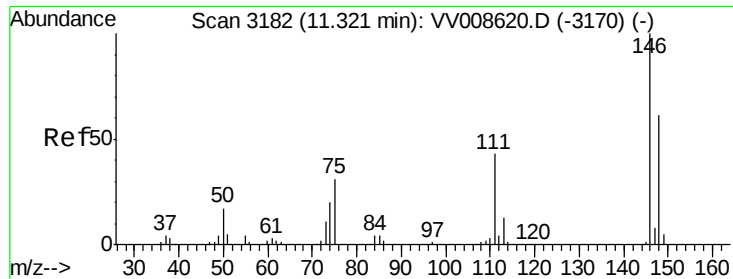
120 27.5 21.0 31.6

77 16.9 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V  
Ion 120.10 (119.80 to 120.80): V  
Ion 77.10 (76.80 to 77.80): VV0

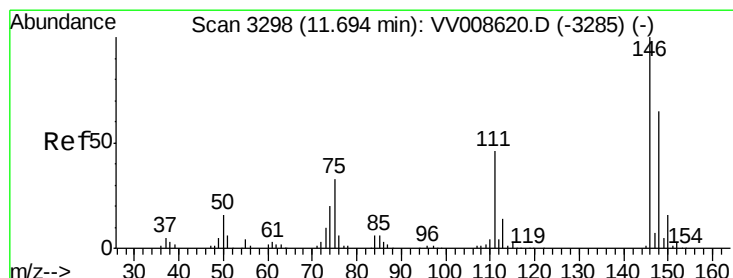
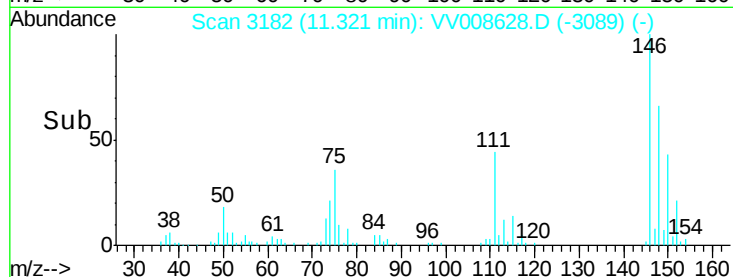
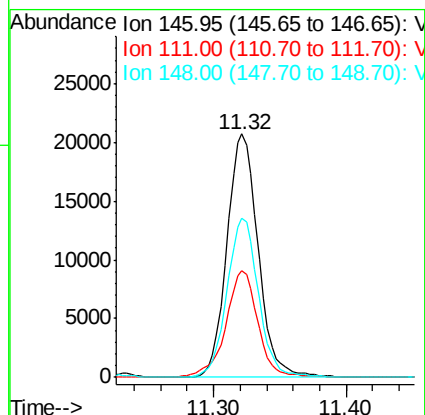
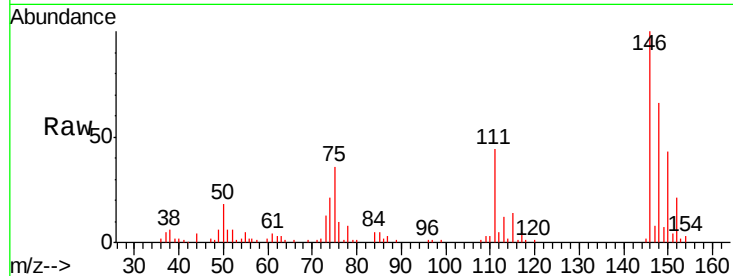




#63  
 1,4-Dichlorobenzene  
 Concen: 1.62 ug/L  
 RT: 11.32 min Scan# 3182  
 Delta R.T. -0.00 min  
 Lab File: VV008628.D  
 Acq: 17 Nov 2018 14:47

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 ETO77

Tgt Ion:146 Resp: 33861  
 Ion Ratio Lower Upper  
 146 100  
 111 44.0 28.2 52.4  
 148 65.6 44.1 81.9



#65  
 1,2-Dichlorobenzene  
 Concen: 0.25 ug/L  
 RT: 11.69 min Scan# 3298  
 Delta R.T. -0.00 min  
 Lab File: VV008628.D  
 Acq: 17 Nov 2018 14:47

Tgt Ion:146 Resp: 4952  
 Ion Ratio Lower Upper  
 146 100  
 111 51.9 33.5 50.3#  
 148 62.0 50.0 75.0

