

Data File : VV008473.D  
Acq On : 30 Oct 2018 17:24  
Operator : SY/MD  
Sample : J5669-21  
Misc : 5.0 mL/MSVOA\_V/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
ETBR6

Quant Time: Oct 31 07:17:50 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102318WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Oct 31 07:14:32 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 180805   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 159370   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 67782    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 50398    | 50.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 100.68% |
| 7) Chloroethane-d5             | 1.56    | 69    | 36497    | 50.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 100.98% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 68451    | 37.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 75.72%  |
| 21) 2-Butanone-d5              | 3.94    | 46    | 100851   | 92.70    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 92.70%  |
| 24) Chloroform-d               | 4.41    | 84    | 120408   | 48.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.54%  |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 81464    | 49.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.70%  |
| 32) Benzene-d6                 | 5.10    | 84    | 248106   | 54.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 109.26% |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 83048    | 52.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 105.36% |
| 41) Toluene-d8                 | 7.36    | 98    | 225043   | 54.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 109.14% |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 39773    | 51.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 103.86% |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 81173    | 98.61    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 98.61%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 111073   | 52.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 104.04% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 74847    | 53.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.96% |

#### Target Compounds

|                                |      |     |       |        | Qvalue |     |
|--------------------------------|------|-----|-------|--------|--------|-----|
| 5) Vinyl chloride              | 1.32 | 62  | 3487  | 2.721  | ug/L # | 14  |
| 8) Chloroethane                | 1.32 | 64  | 1801  | 2.675  | ug/L   | 88  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 576   | 0.669  | ug/L # | 20  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 597   | 0.736  | ug/L # | 1   |
| 13) Acetone                    | 2.19 | 43  | 4082  | 4.834  | ug/L   | 97  |
| 20) cis-1,2-Dichloroethene     | 3.97 | 96  | 19131 | 13.579 | ug/L   | 90  |
| 33) Benzene                    | 5.10 | 78  | 2027  | 0.389  | ug/L   | 100 |
| 35) Methylcyclohexane          | 6.12 | 83  | 18589 | 8.198  | ug/L # | 17  |
| 39) cis-1,3-Dichloropropene    | 7.03 | 75  | 2295  | 1.015  | ug/L # | 52  |
| 44) trans-1,3-Dichloropropene  | 7.67 | 75  | 1682  | 0.795  | ug/L # | 74  |

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

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Sample : J5669-21

Misc : 5.0 mL/MSV0A\_V/WATER

ALS Vial : 8      Sample Multiplier: 1

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
ETBR6

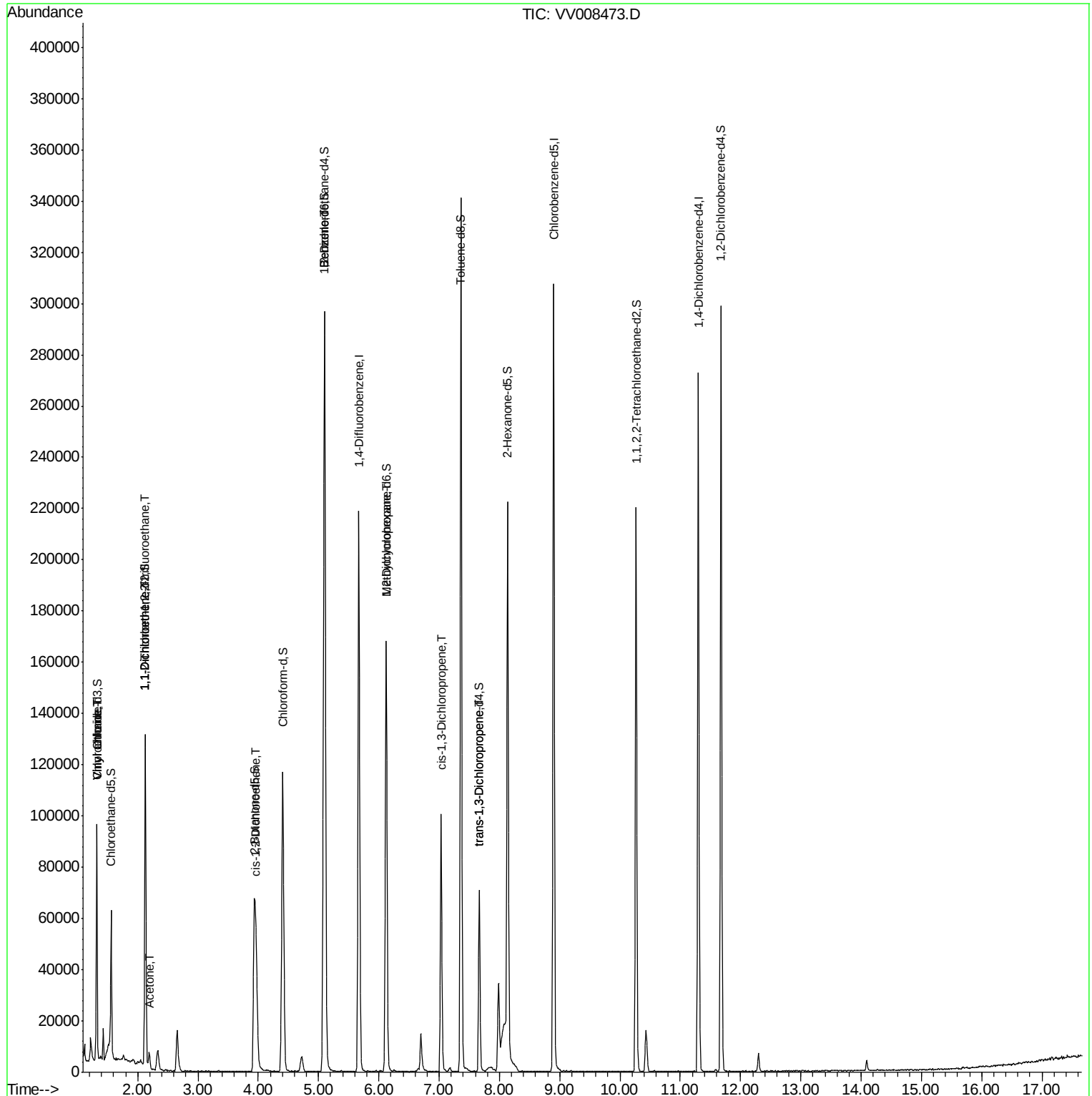
Quant Time: Oct 31 07:17:50 2018

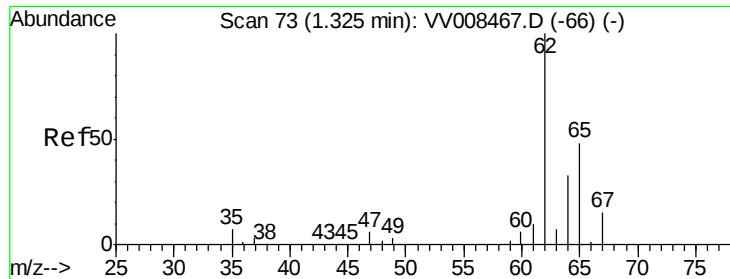
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_V\METHOD\SOMVLM102318WMA.M

Quant Title : VOC Analysis

QLast Update : Wed Oct 31 07:14:32 2018

Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.721 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV008473.D

Acq: 30 Oct 2018 17:24

Instrument :

MSVOA\_V

ClientSampleId :

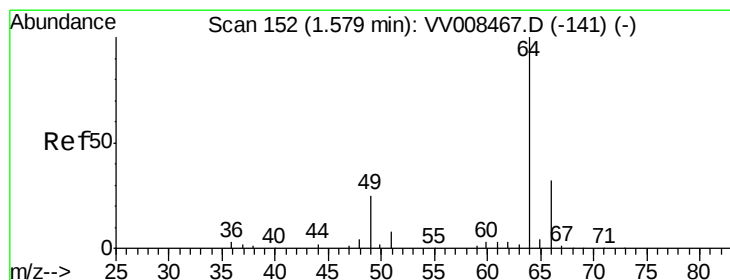
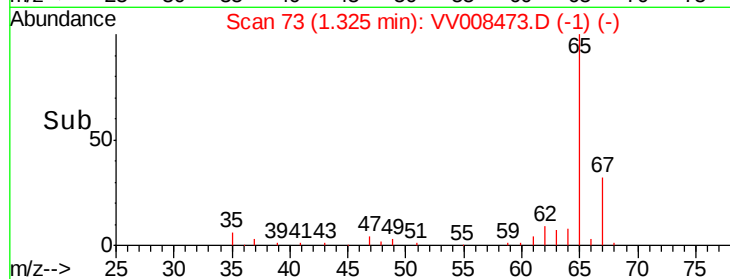
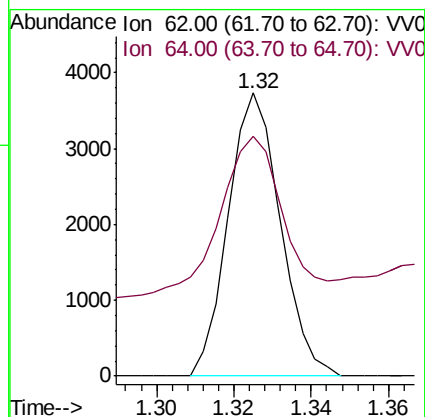
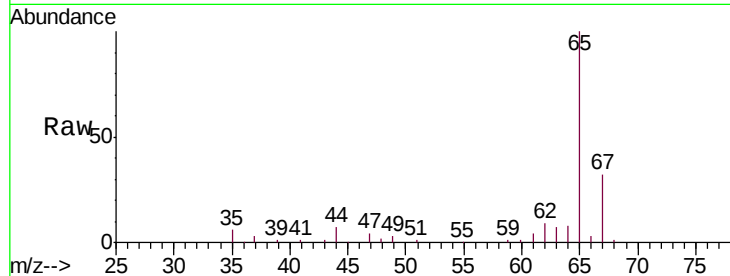
ETBR6

Tgt Ion: 62 Resp: 3487

Ion Ratio Lower Upper

62 100

64 84.9 24.4 45.4#



#8

Chloroethane

Concen: 2.675 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.25 min

Lab File: VV008473.D

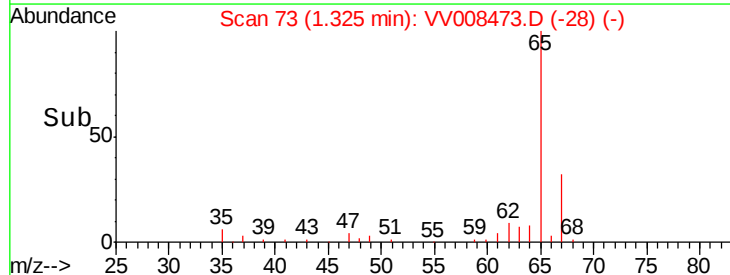
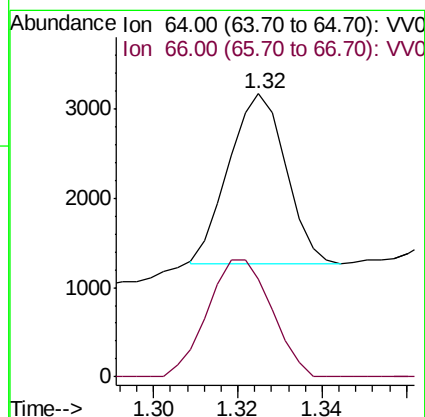
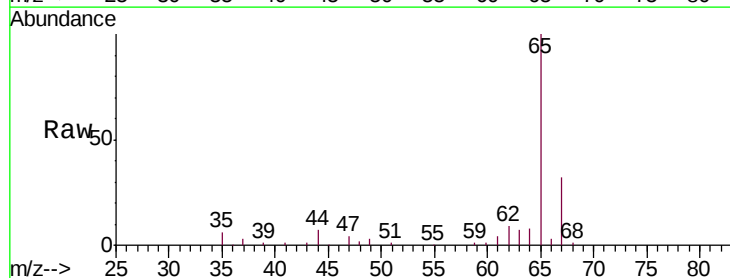
Acq: 30 Oct 2018 17:24

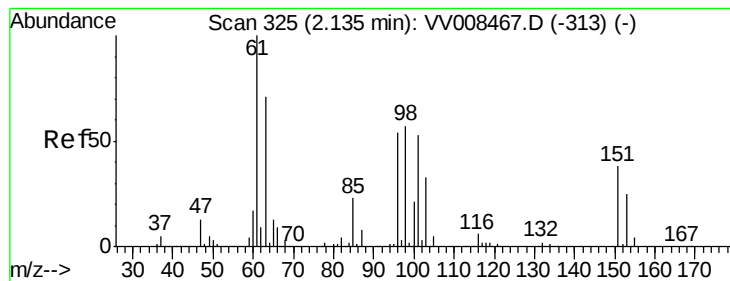
Tgt Ion: 64 Resp: 1801

Ion Ratio Lower Upper

64 100

66 34.6 19.9 36.9





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.669 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV008473.D

Acq: 30 Oct 2018 17:24

Instrument :

MSVOA\_V

ClientSampleId :

ETBR6

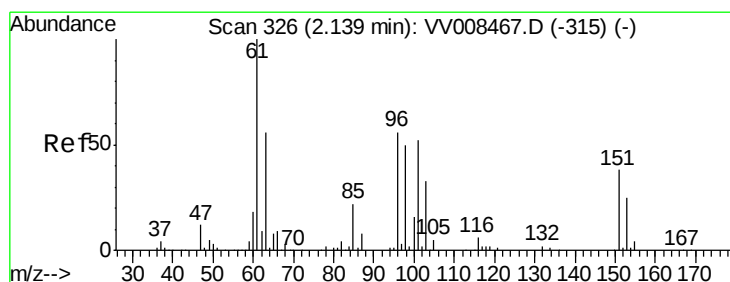
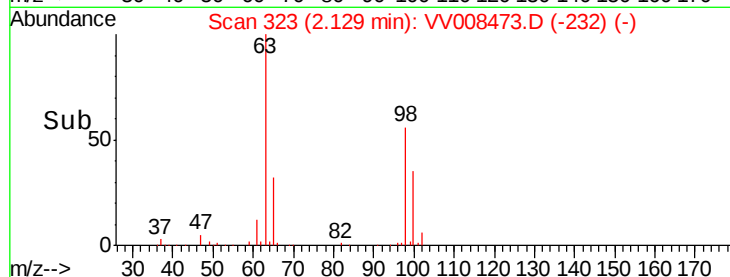
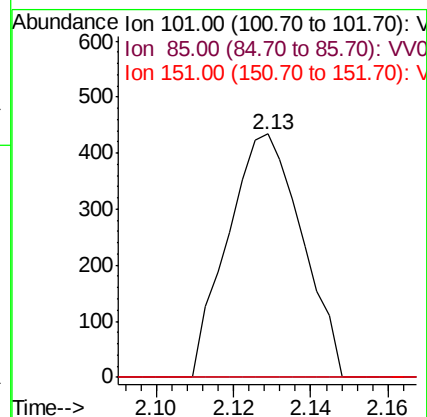
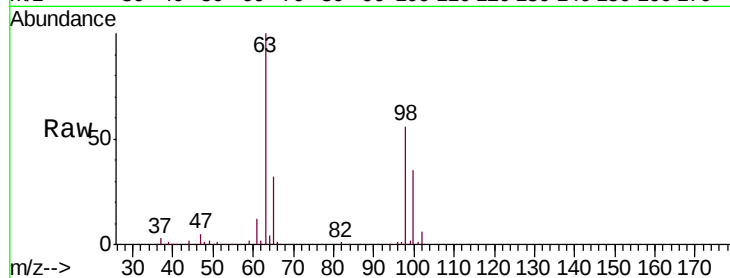
Tgt Ion: 101 Resp: 576

Ion Ratio Lower Upper

101 100

85 0.0 35.6 53.4#

151 0.0 58.1 87.1#



#12

1,1-Dichloroethene

Concen: 0.736 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV008473.D

Acq: 30 Oct 2018 17:24

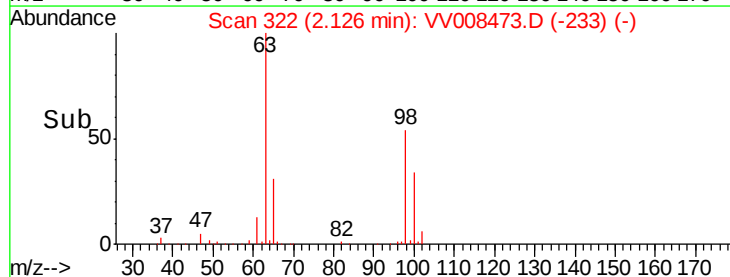
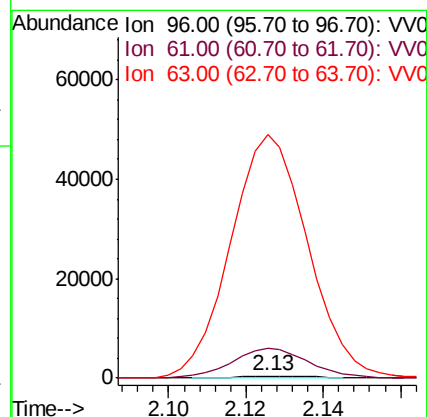
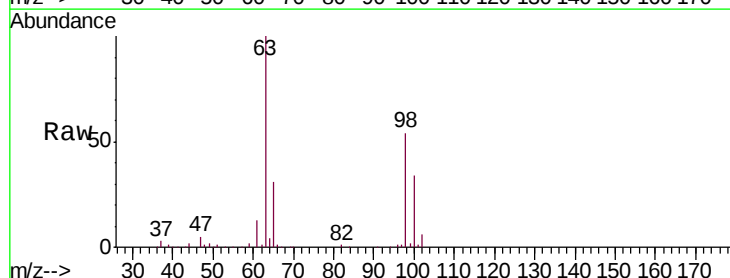
Tgt Ion: 96 Resp: 597

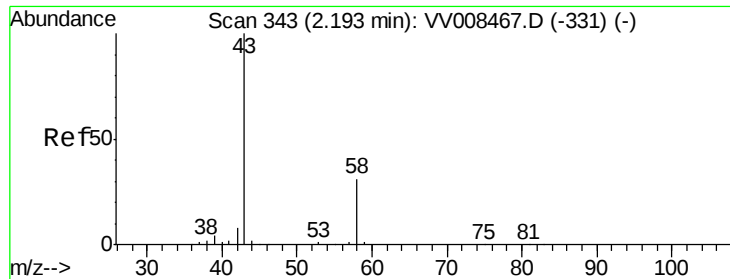
Ion Ratio Lower Upper

96 100

61 1412.4 130.3 242.1#

63 11286.6 84.4 156.8#





#13

Acetone

Concen: 4.834 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.00 min

Lab File: VV008473.D

Acq: 30 Oct 2018 17:24

Instrument :

MSVOA\_V

ClientSampled :

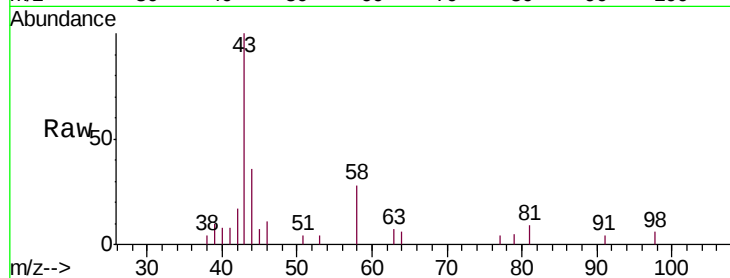
ETBR6

Tgt Ion: 43 Resp: 4082

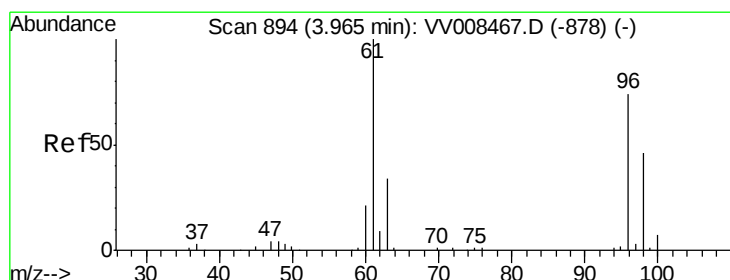
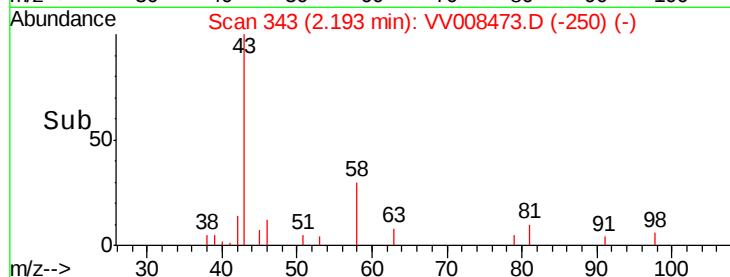
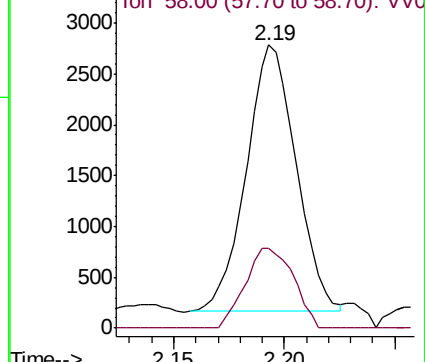
Ion Ratio Lower Upper

43 100

58 29.2 0.0 61.4



Abundance Ion 43.00 (42.70 to 43.70): VV008467.D (-331) (-)



#20

cis-1,2-Dichloroethene

Concen: 13.579 ug/L

RT: 3.97 min Scan# 895

Delta R.T. 0.00 min

Lab File: VV008473.D

Acq: 30 Oct 2018 17:24

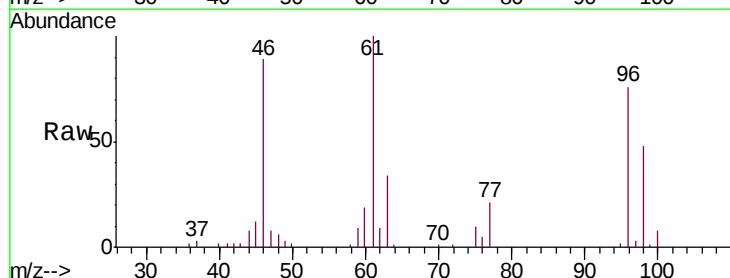
Tgt Ion: 96 Resp: 19131

Ion Ratio Lower Upper

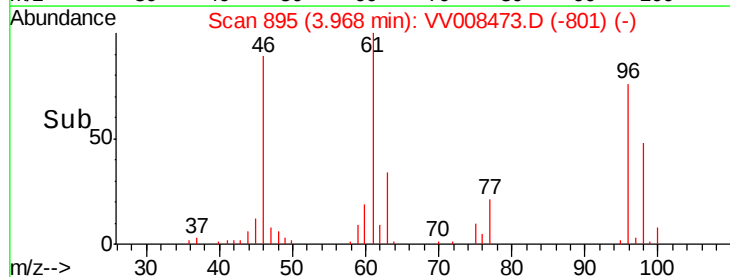
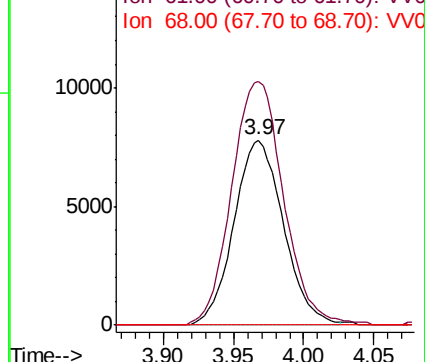
96 100

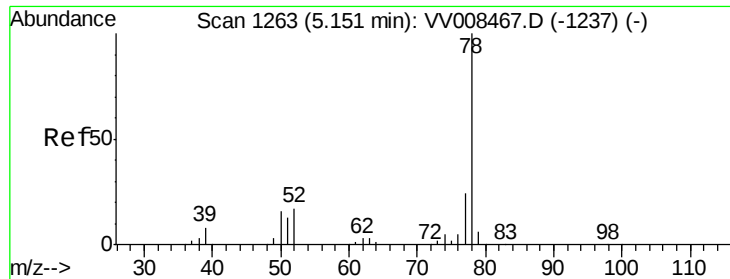
61 131.4 100.9 187.5

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV008467.D (-878) (-)





#33

Benzene

Concen: 0.389 ug/L

RT: 5.10 min Scan# 1248

Delta R.T. -0.05 min

Lab File: VV008473.D

Acq: 30 Oct 2018 17:24

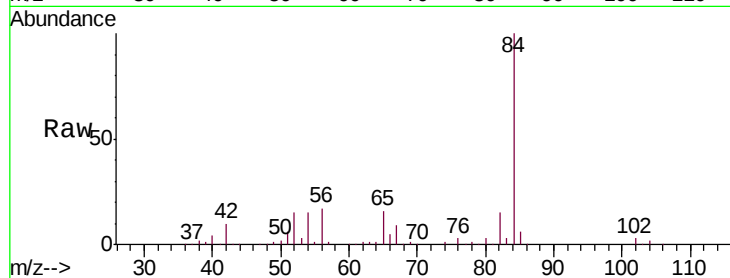
Instrument :

MSVOA\_V

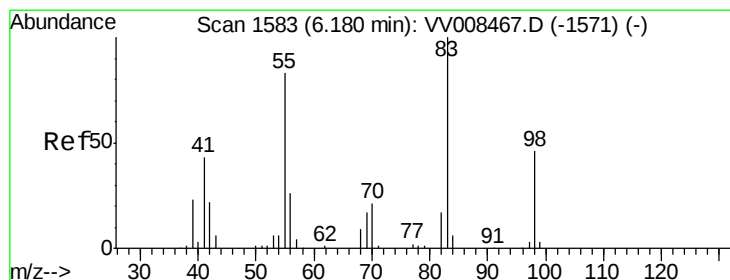
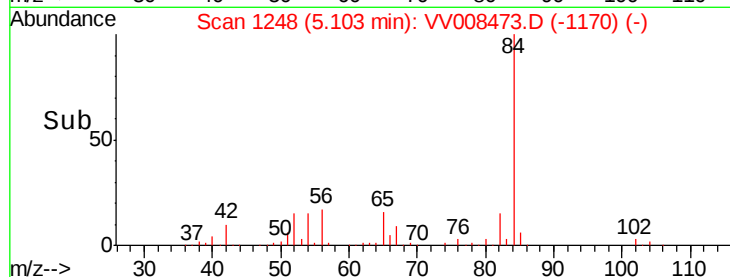
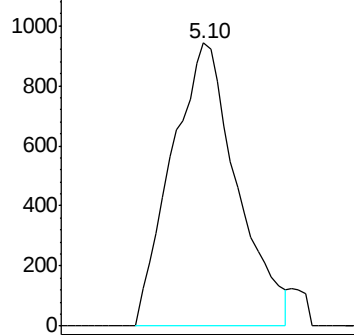
ClientSampled :

ETBR6

Tgt Ion: 78 Resp: 2027



Abundance Ion 78.00 (77.70 to 78.70): VV0



#35

Methylcyclohexane

Concen: 8.198 ug/L

RT: 6.12 min Scan# 1564

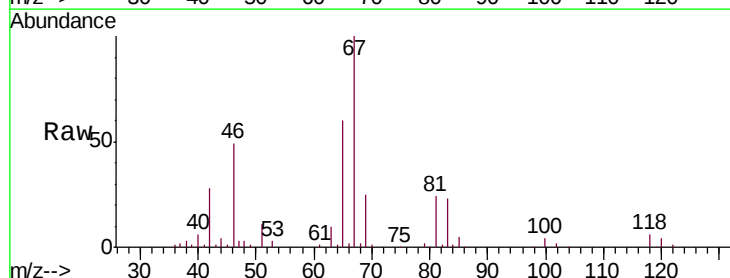
Delta R.T. -0.06 min

Lab File: VV008473.D

Acq: 30 Oct 2018 17:24

Tgt Ion: 83 Resp: 18589

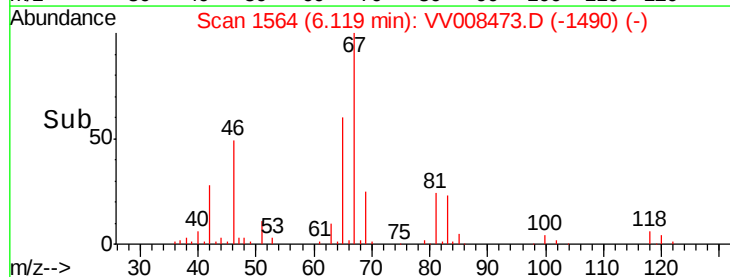
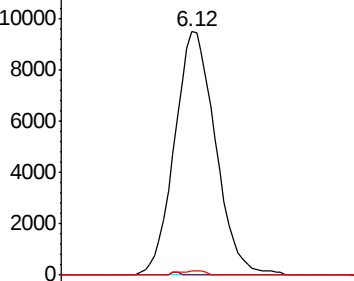
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 0.2   | 65.0  | 97.4# |
| 98  | 0.8   | 36.0  | 54.0# |

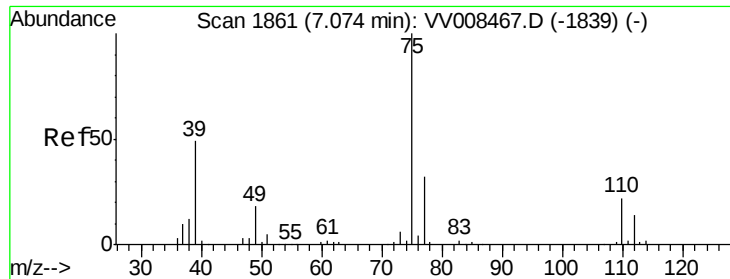


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

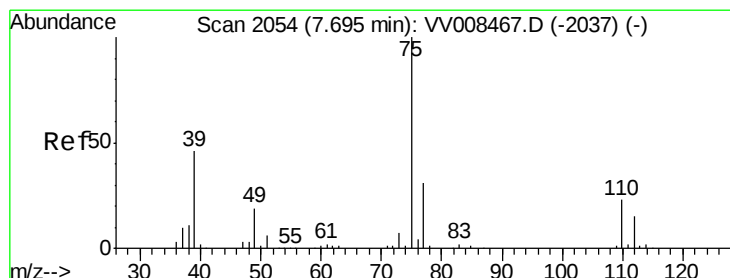
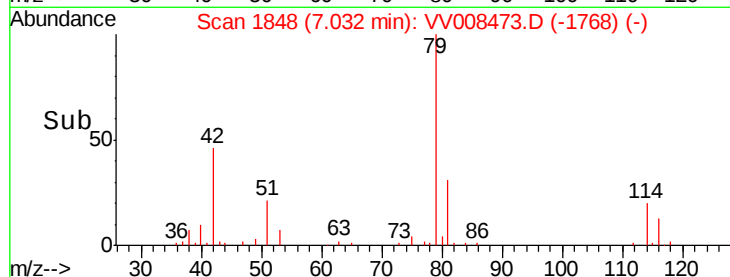
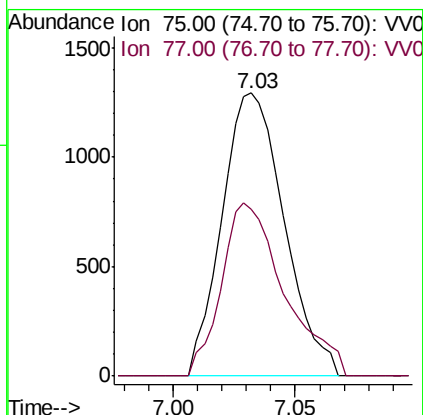
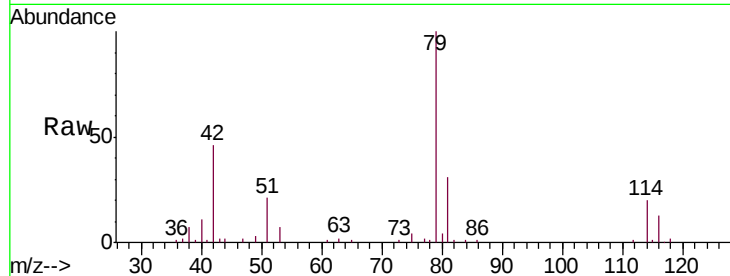




#39  
 cis-1,3-Dichloropropene  
 Concen: 1.015 ug/L  
 RT: 7.03 min Scan# 1848  
 Delta R.T. -0.04 min  
 Lab File: VV008473.D  
 Acq: 30 Oct 2018 17:24

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ETBR6

Tgt Ion: 75 Resp: 2295  
 Ion Ratio Lower Upper  
 75 100  
 77 59.0 22.6 42.0#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.795 ug/L  
 RT: 7.67 min Scan# 2046  
 Delta R.T. -0.03 min  
 Lab File: VV008473.D  
 Acq: 30 Oct 2018 17:24

Tgt Ion: 75 Resp: 1682  
 Ion Ratio Lower Upper  
 75 100  
 77 45.2 21.8 40.4#

