

Data File : VV007973.D  
Acq On : 29 Sep 2018 00:29  
Operator : SY/MD  
Sample : J5091-04  
Misc : 25.0 mL/MSVOA\_V/WATER  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
E62S8

Quant Time: Oct 10 04:10:16 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR092718WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon Oct 01 04:55:39 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 92062    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 90604    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 45060    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 17971    | 3.64     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 72.80% |
| 7) Chloroethane-d5             | 1.59   | 69    | 17442    | 4.09     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 81.80% |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 41384    | 3.71     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 74.20% |
| 20) 2-Butanone-d5              | 3.98   | 46    | 71529    | 48.19    | ug/L | 0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 96.38% |
| 24) Chloroform-d               | 4.41   | 84    | 48778    | 4.34     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 86.80% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 26119    | 4.22     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.40% |
| 32) Benzene-d6                 | 5.10   | 84    | 90866    | 4.20     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 84.00% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 30552    | 4.45     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 89.00% |
| 41) Toluene-d8                 | 7.36   | 98    | 85018    | 3.86     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 77.20% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 9630     | 3.65     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 73.00% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 51936    | 44.56    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 89.12% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 23489    | 4.44     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 88.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 37228    | 4.27     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 85.40% |

#### Target Compounds

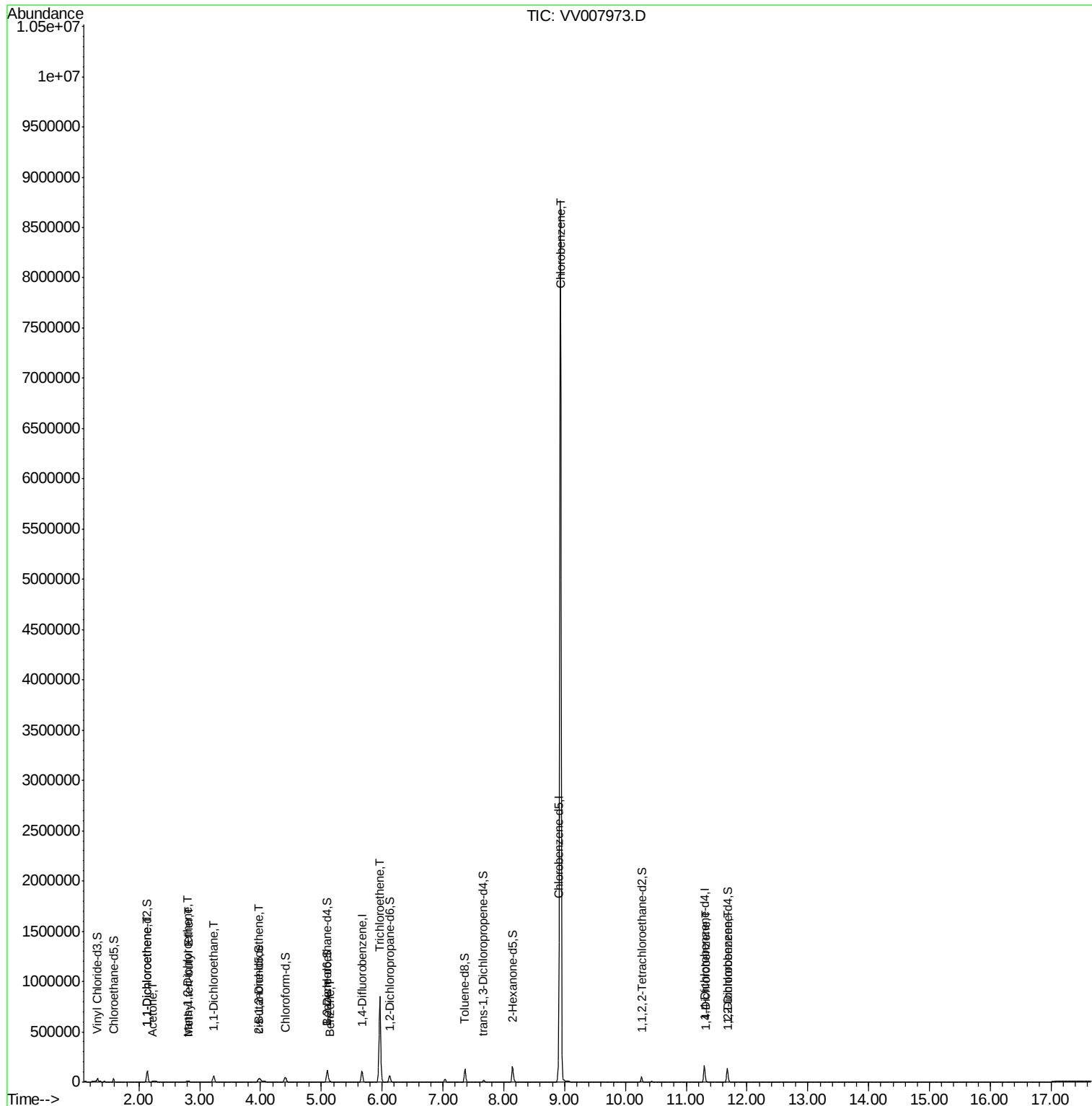
|                              |       |     |         |              | Qvalue |
|------------------------------|-------|-----|---------|--------------|--------|
| 12) 1,1-Dichloroethene       | 2.14  | 96  | 19844   | 3.261 ug/L   | 99     |
| 13) Acetone                  | 2.23  | 43  | 15771   | 14.582 ug/L  | 93     |
| 17) Methyl tert-butyl Ether  | 2.82  | 73  | 4226    | 0.281 ug/L # | 92     |
| 18) trans-1,2-Dichloroethene | 2.79  | 96  | 1256    | 0.187 ug/L # | 87     |
| 19) 1,1-Dichloroethane       | 3.23  | 63  | 59290   | 5.180 ug/L   | 99     |
| 22) cis-1,2-Dichloroethene   | 3.96  | 96  | 6774    | 0.997 ug/L   | 100    |
| 33) Benzene                  | 5.15  | 78  | 3553    | 0.137 ug/L   | 100    |
| 34) Trichloroethene          | 5.96  | 95  | 279987  | 37.689 ug/L  | 96     |
| 51) Chlorobenzene            | 8.93  | 112 | 4582399 | 234.805 ug/L | 99     |
| 63) 1,4-Dichlorobenzene      | 11.32 | 146 | 4189    | 0.271 ug/L   | 93     |
| 65) 1,2-Dichlorobenzene      | 11.70 | 146 | 3357    | 0.239 ug/L   | 93     |

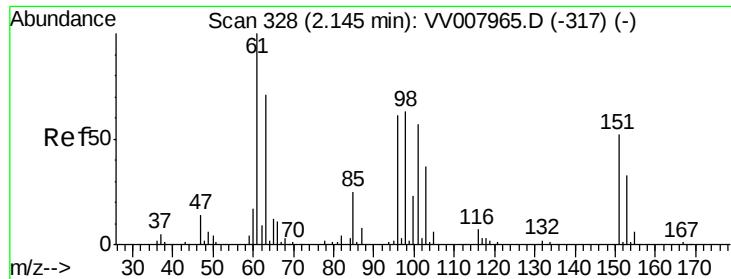
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 3.261 ug/L

RT: 2.14 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

Instrument :

MSVOA\_V

ClientSampled :

E62S8

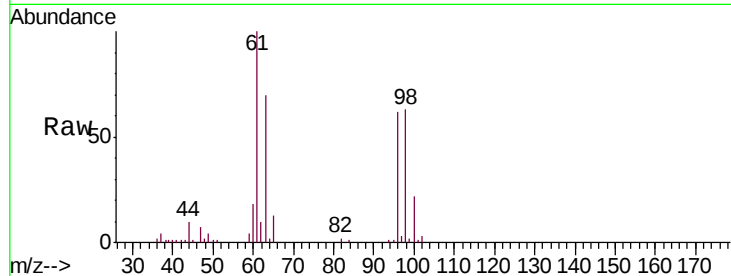
Tgt Ion: 96 Resp: 19844

Ion Ratio Lower Upper

96 100

61 162.5 114.1 211.9

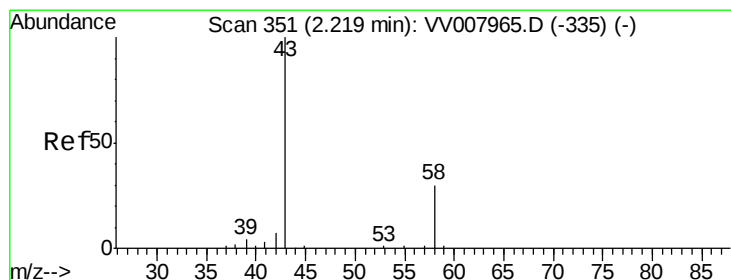
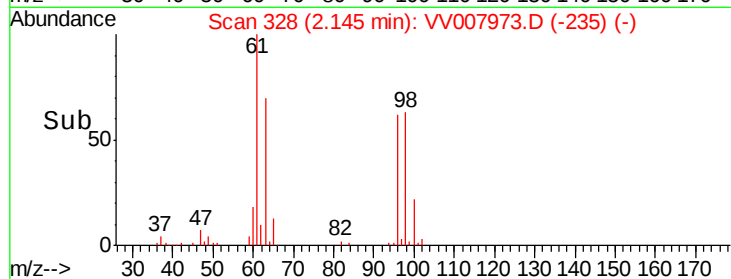
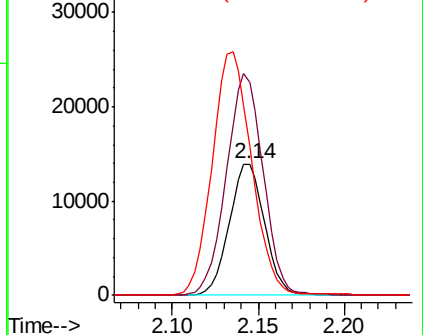
63 113.4 81.5 151.3



Abundance Ion 96.00 (95.70 to 96.70): VV007965.D (-317) (-)

Ion 61.05 (60.75 to 61.75): VV007965.D (-317) (-)

Ion 63.00 (62.70 to 63.70): VV007965.D (-317) (-)



#13

Acetone

Concen: 14.582 ug/L

RT: 2.23 min Scan# 356

Delta R.T. 0.02 min

Lab File: VV007973.D

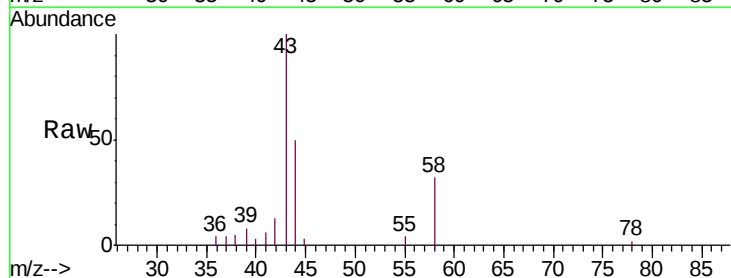
Acq: 29 Sep 2018 00:29

Tgt Ion: 43 Resp: 15771

Ion Ratio Lower Upper

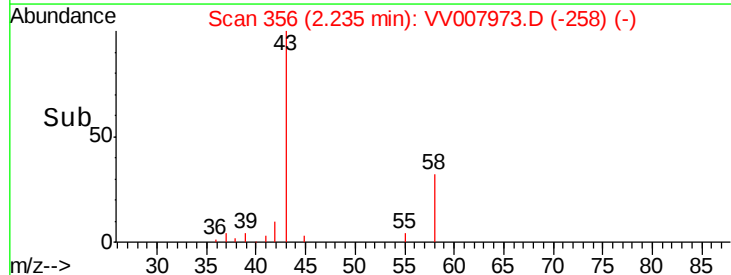
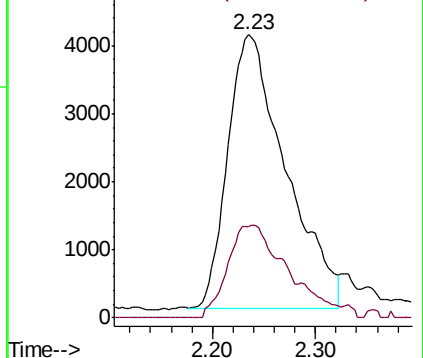
43 100

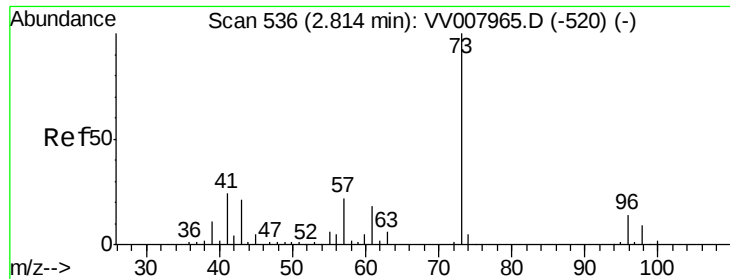
58 34.9 0.0 62.0



Abundance Ion 43.05 (42.75 to 43.75): VV007965.D (-335) (-)

Ion 58.05 (57.75 to 58.75): VV007965.D (-335) (-)

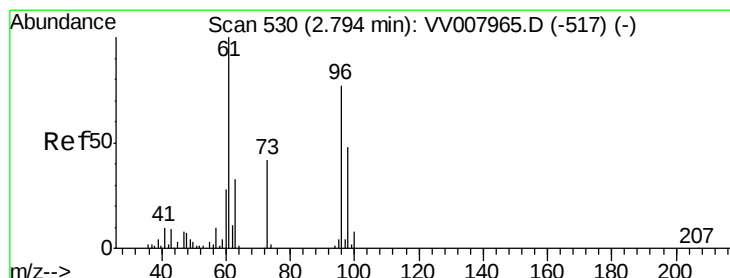
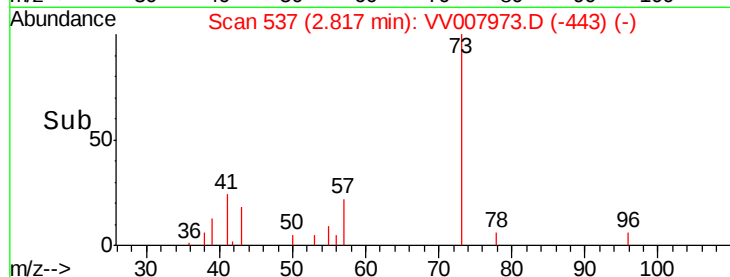
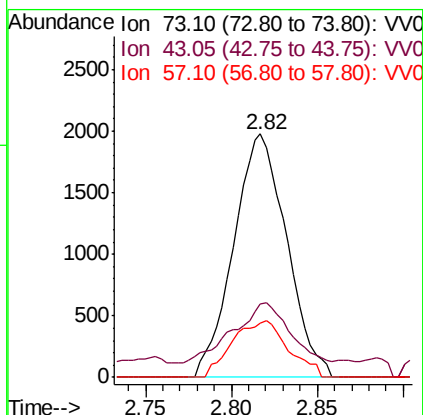
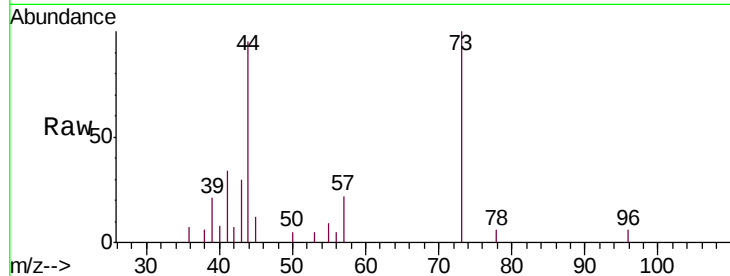




#17  
Methyl tert-butyl Ether  
Concen: 0.281 ug/L  
RT: 2.82 min Scan# 537  
Delta R.T. 0.00 min  
Lab File: VV007973.D  
Acq: 29 Sep 2018 00:29

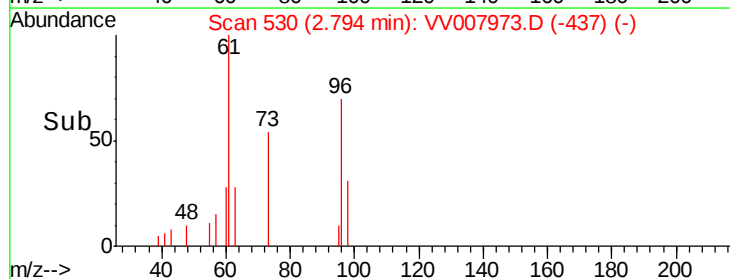
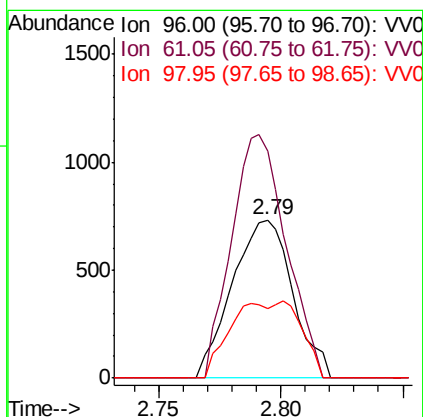
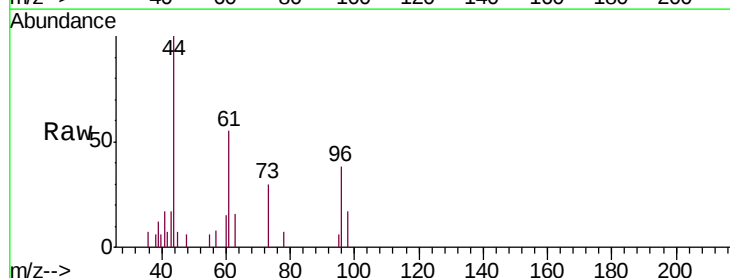
Instrument :  
MSVOA\_V  
ClientSampled :  
E62S8

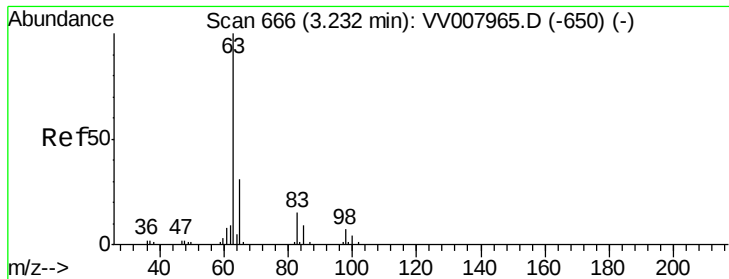
Tgt Ion: 73 Resp: 4226  
Ion Ratio Lower Upper  
73 100  
43 25.9 16.8 25.2#  
57 24.6 17.6 26.4



#18  
trans-1,2-Dichloroethene  
Concen: 0.187 ug/L  
RT: 2.79 min Scan# 530  
Delta R.T. 0.00 min  
Lab File: VV007973.D  
Acq: 29 Sep 2018 00:29

Tgt Ion: 96 Resp: 1256  
Ion Ratio Lower Upper  
96 100  
61 143.6 94.2 175.0  
98 44.0 44.9 83.5#





#19

1,1-Dichloroethane

Concen: 5.180 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

Instrument :

MSVOA\_V

ClientSampleId :

E62S8

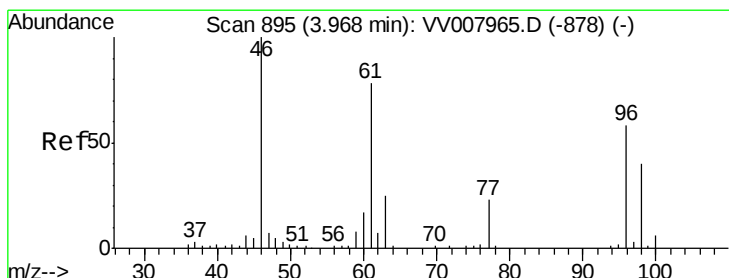
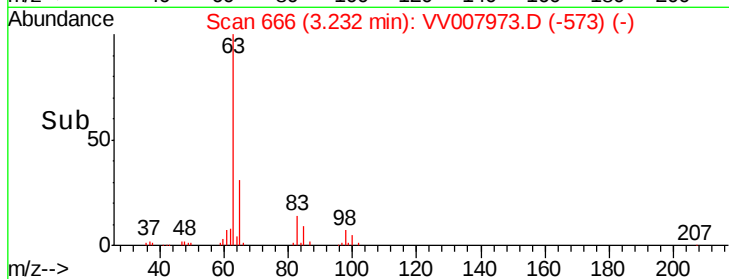
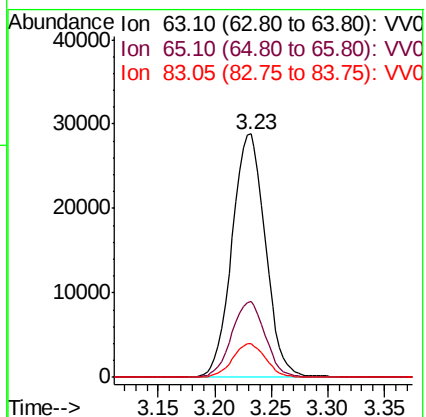
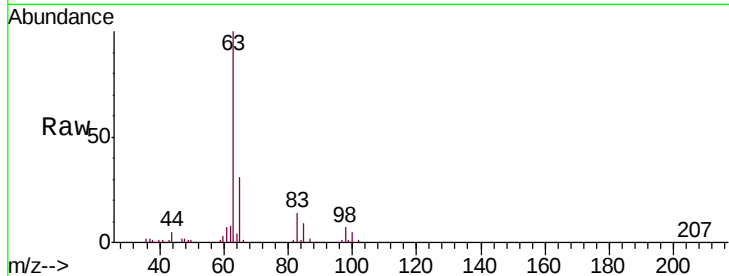
Tgt Ion: 63 Resp: 59290

Ion Ratio Lower Upper

63 100

65 31.2 22.3 41.5

83 13.8 9.8 18.2



#22

cis-1,2-Dichloroethene

Concen: 0.997 ug/L

RT: 3.96 min Scan# 894

Delta R.T. -0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

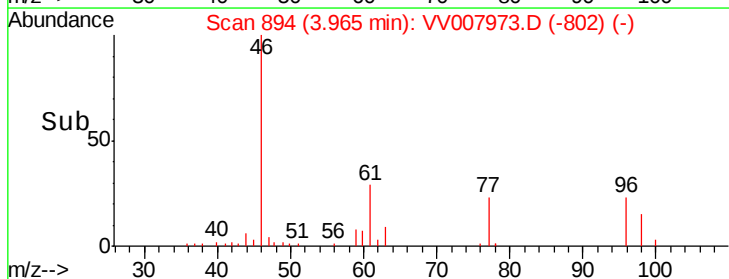
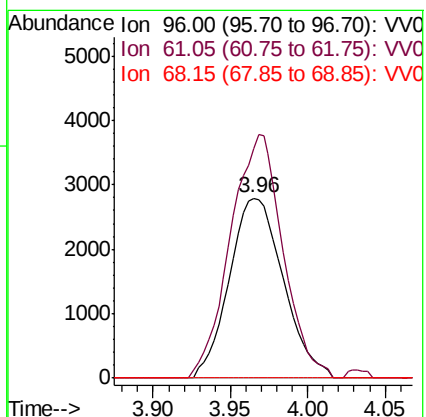
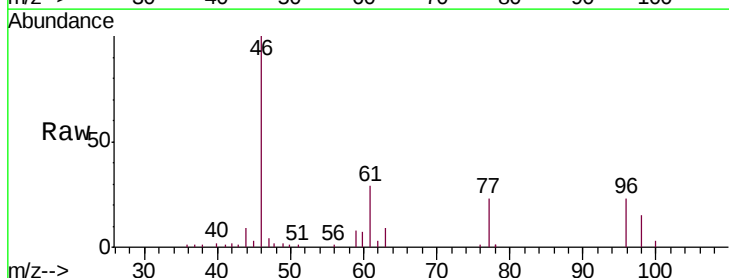
Tgt Ion: 96 Resp: 6774

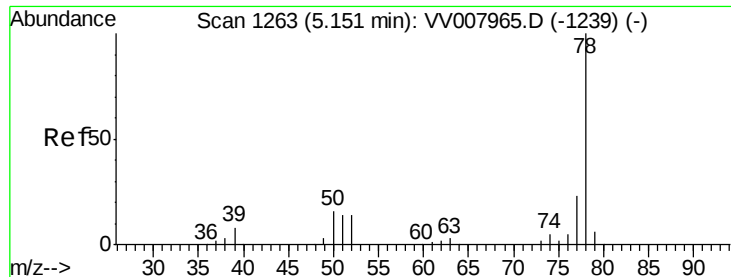
Ion Ratio Lower Upper

96 100

61 127.5 89.5 166.1

68 0.0 0.0 0.0

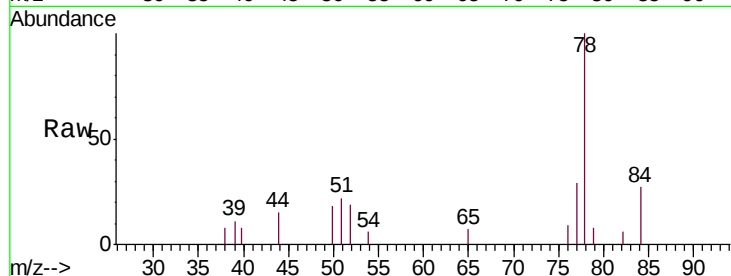




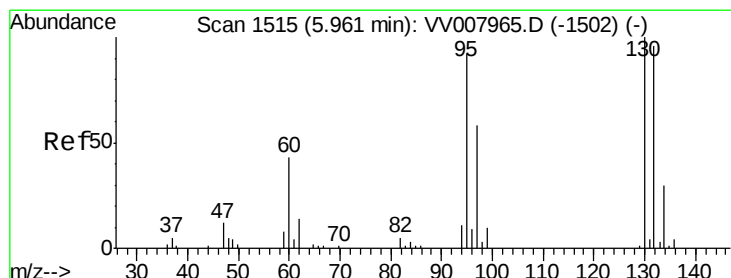
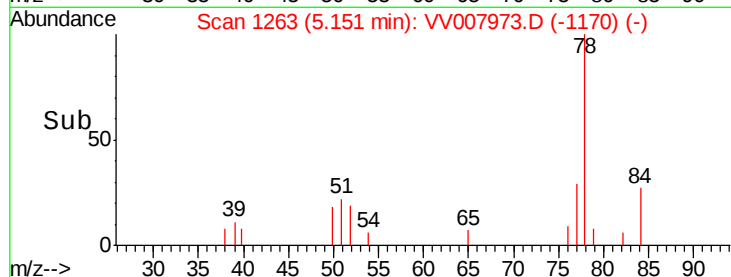
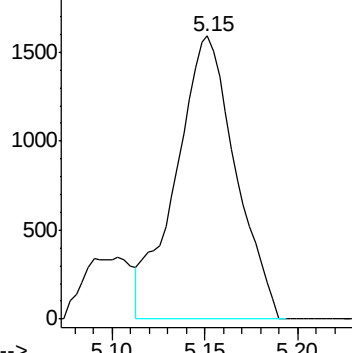
#33  
Benzene  
Concen: 0.137 ug/L  
RT: 5.15 min Scan# 1263  
Delta R.T. 0.00 min  
Lab File: VV007973.D  
Acq: 29 Sep 2018 00:29

Instrument :  
MSVOA\_V  
ClientSampleId :  
E62S8

Tgt Ion: 78 Resp: 3553



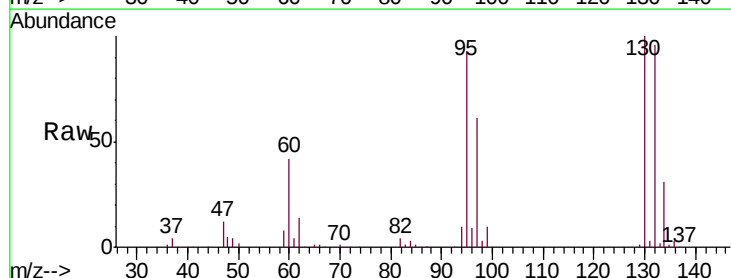
Abundance Ion 78.10 (77.80 to 78.80): VV0



#34  
Trichloroethene  
Concen: 37.689 ug/L  
RT: 5.96 min Scan# 1515  
Delta R.T. 0.00 min  
Lab File: VV007973.D  
Acq: 29 Sep 2018 00:29

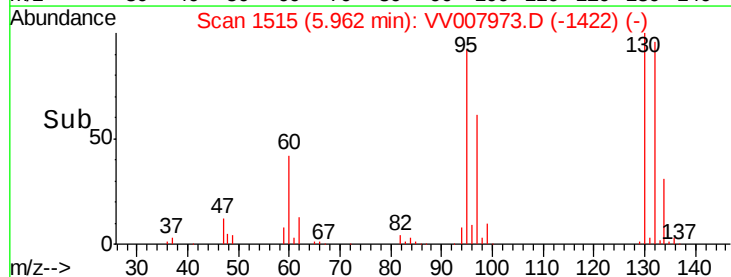
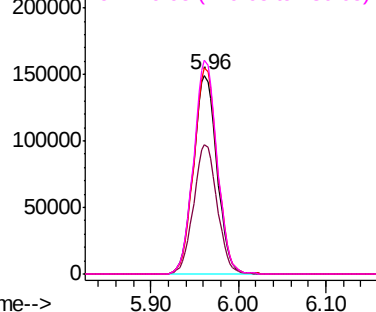
Tgt Ion: 95 Resp: 279987

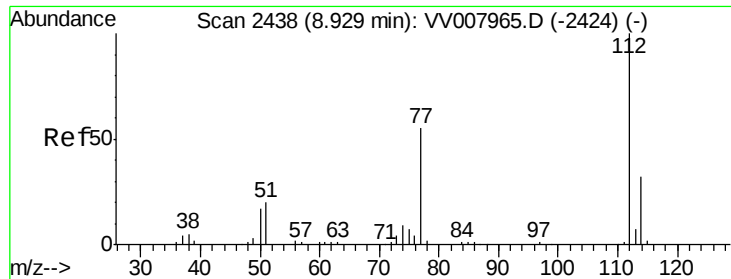
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.1  | 43.6  | 81.0  |
| 132 | 103.5 | 69.9  | 129.9 |
| 130 | 107.5 | 71.7  | 133.3 |



Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0  
Ion 131.95 (131.65 to 132.65): VV0  
Ion 129.95 (129.65 to 130.65): VV0





#51

Chlorobenzene

Concen: 234.805 ug/L

RT: 8.93 min Scan# 2439

Delta R.T. 0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

Instrument :

MSVOA\_V

ClientSampled :

E62S8

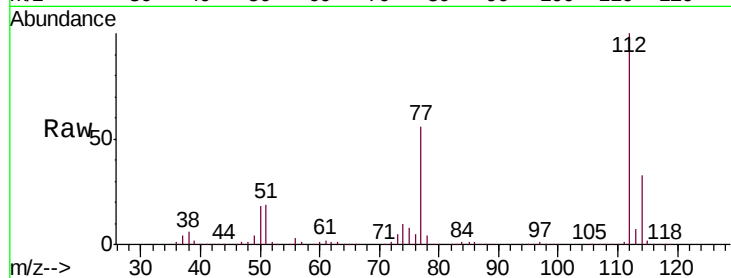
Tgt Ion:112 Resp: 4582399

Ion Ratio Lower Upper

112 100

114 33.4 22.4 41.6

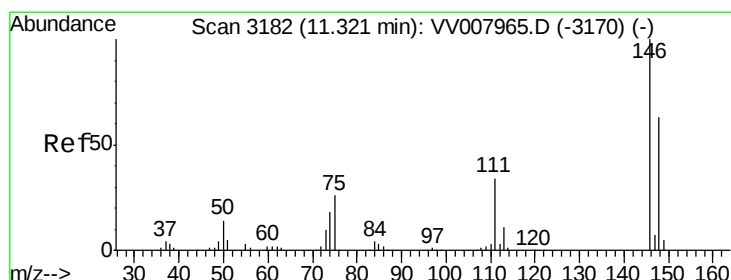
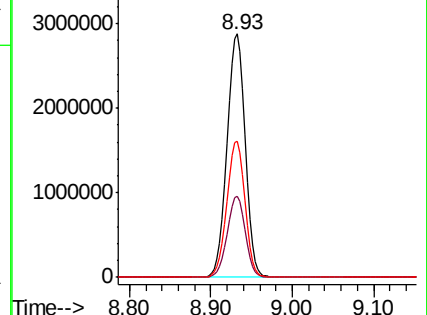
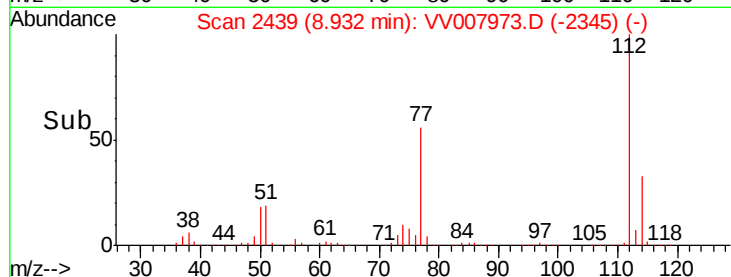
77 55.8 45.0 67.6



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): V



#63

1,4-Dichlorobenzene

Concen: 0.271 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

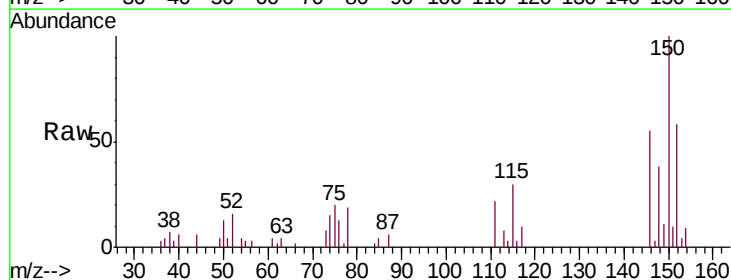
Tgt Ion:146 Resp: 4189

Ion Ratio Lower Upper

146 100

111 40.3 25.3 47.1

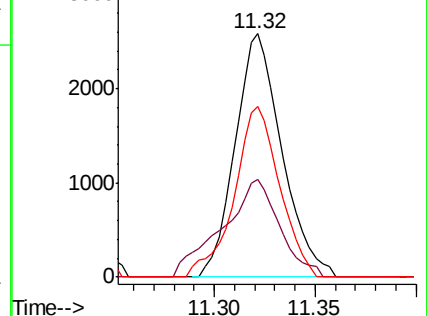
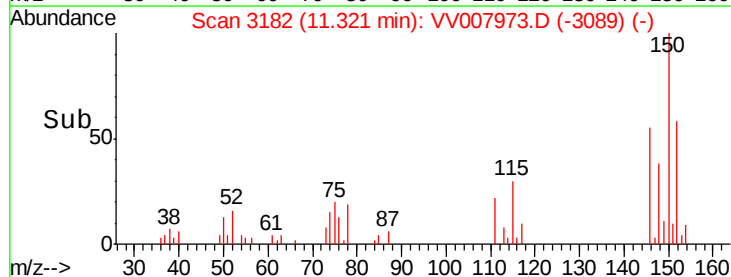
148 69.9 44.7 82.9

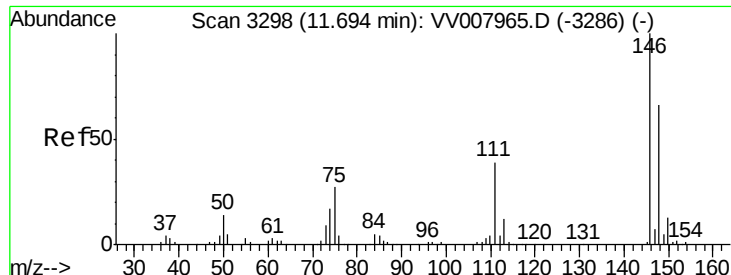


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

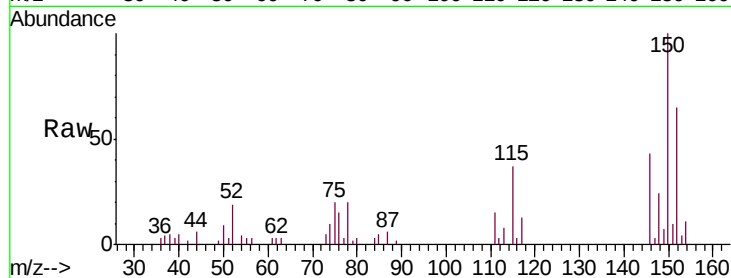




#65  
 1,2-Dichlorobenzene  
 Concen: 0.239 ug/L  
 RT: 11.70 min Scan# 3299  
 Delta R.T. 0.00 min  
 Lab File: VV007973.D  
 Acq: 29 Sep 2018 00:29

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 E62S8

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.1  | 31.2  | 46.8  |
| 148     | 55.8  | 50.3  | 75.5  |



Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

