

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091318\  
 Data File : VV007537.D  
 Acq On : 14 Sep 2018 03:48  
 Operator : SY/MD  
 Sample : J4888-08  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Sep 14 05:14:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR091318WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Sep 14 05:10:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 124245   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 110515   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 59092    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 26341    | 4.06     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 81.20%   |
| 7) Chloroethane-d5             | 1.59   | 69    | 24751    | 4.55     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.00%   |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 46965    | 3.48     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 69.60%   |
| 20) 2-Butanone-d5              | 3.97   | 46    | 59944    | 66.22    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 132.44%# |
| 24) Chloroform-d               | 4.41   | 84    | 58486    | 4.39     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.80%   |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 29982    | 4.59     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.80%   |
| 32) Benzene-d6                 | 5.10   | 84    | 114785   | 4.58     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.60%   |
| 36) 1,2-Dichloropropane-d6     | 6.13   | 67    | 34105    | 4.56     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.20%   |
| 41) Toluene-d8                 | 7.36   | 98    | 114641   | 4.39     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 87.80%   |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 13785    | 3.99     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 79.80%   |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 31475    | 57.01    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 114.02%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 23995    | 4.59     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 91.80%   |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 46342    | 4.28     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 85.60%   |

## Target Compounds

| Target Compounds              | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------------|------|------|----------|-------|--------|--------|
| 5) Vinyl chloride             | 1.32 | 62   | 632      | 0.097 | ug/L # | 11     |
| 12) 1,1-Dichloroethene        | 2.14 | 96   | 1110     | 0.176 | ug/L # | 1      |
| 13) Acetone                   | 2.21 | 43   | 4632     | 7.835 | ug/L   | 85     |
| 15) Methyl Acetate            | 2.51 | 43   | 330      | 0.204 | ug/L # | 54     |
| 16) Methylene chloride        | 2.54 | 84   | 1722     | 0.253 | ug/L   | 78     |
| 21) 2-Butanone                | 4.05 | 43   | 1985     | 2.001 | ug/L   | 87     |
| 22) cis-1,2-Dichloroethene    | 3.96 | 96   | 4665     | 0.690 | ug/L   | 88     |
| 25) Chloroform                | 4.43 | 83   | 3335     | 0.292 | ug/L   | 77     |
| 29) 1,1,1-Trichloroethane     | 4.66 | 97   | 2439     | 0.227 | ug/L   | 94     |
| 34) Trichloroethene           | 5.96 | 95   | 30184    | 4.313 | ug/L   | 94     |
| 35) Methylcyclohexane         | 6.13 | 83   | 8468     | 0.783 | ug/L # | 24     |
| 37) 1,2-Dichloropropane       | 6.12 | 63   | 3930     | 0.699 | ug/L # | 85     |
| 39) cis-1,3-Dichloropropene   | 7.03 | 75   | 1286     | 0.144 | ug/L # | 81     |
| 44) trans-1,3-Dichloropropene | 7.67 | 75   | 669      | 0.091 | ug/L # | 51     |
| 48) 2-Hexanone                | 8.20 | 43   | 3918     | 1.662 | ug/L # | 40     |
| 53) m,p-xylene                | 9.18 | 106  | 1211     | 0.105 | ug/L   | 88     |

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ALS Vial : 28 Sample Multiplier: 1

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MSVOA\_V  
ClientSampleId :

Quant Time: Sep 14 05:14:02 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR091318WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Sep 14 05:10:24 2018  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

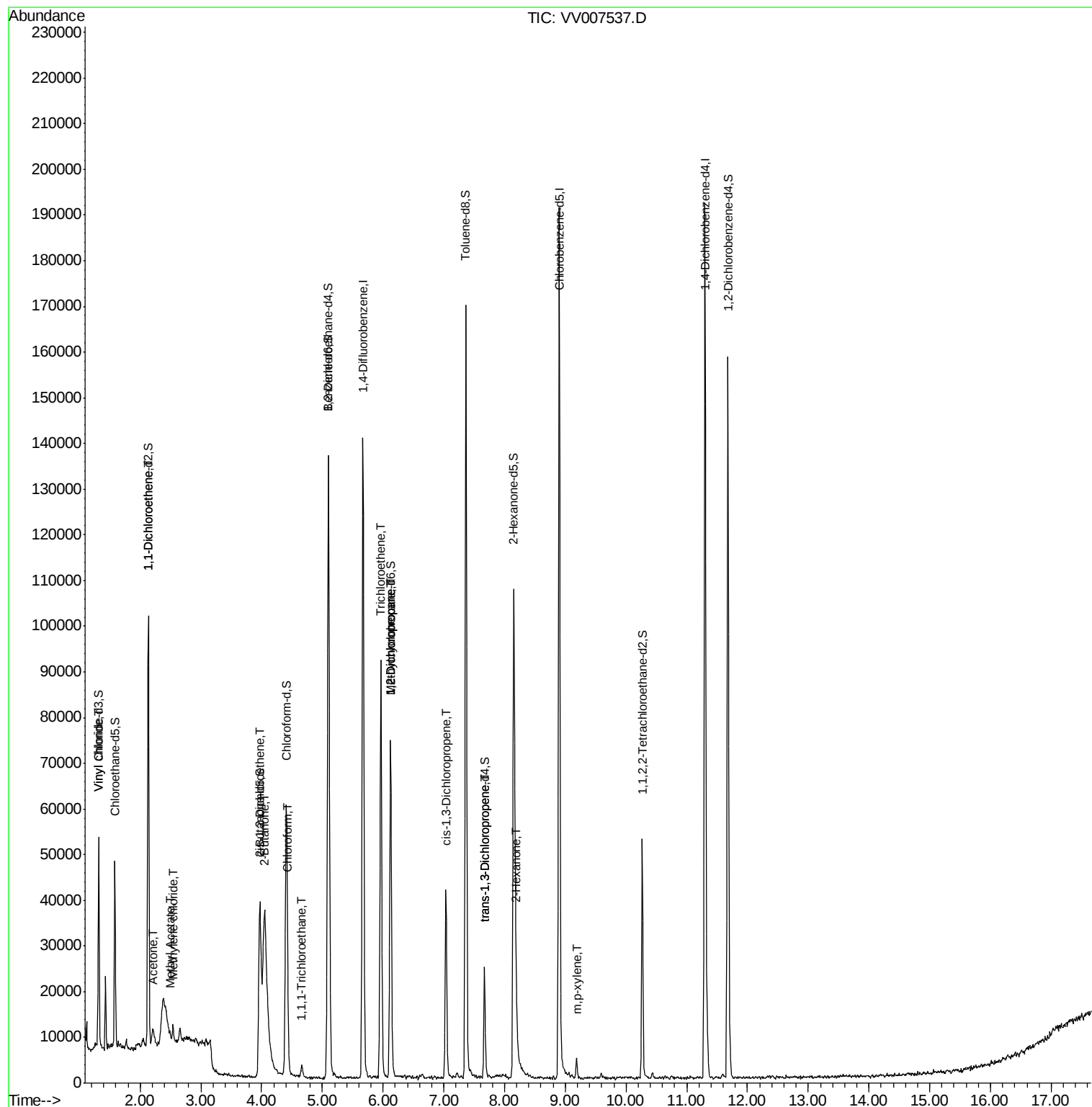
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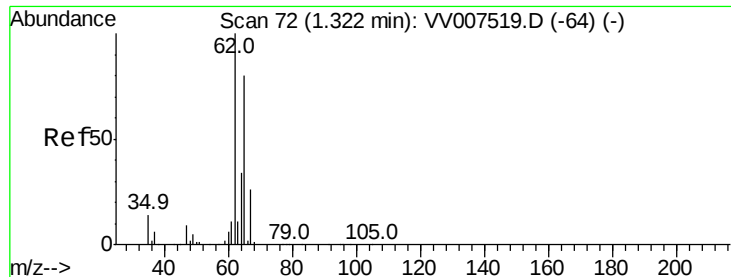
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_V  
ClientSampleId :

Quant Time: Sep 14 05:14:02 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR091318WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Sep 14 05:10:24 2018  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.097 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV007537.D

Acq: 14 Sep 2018 03:48

Instrument :

MSVOA\_V

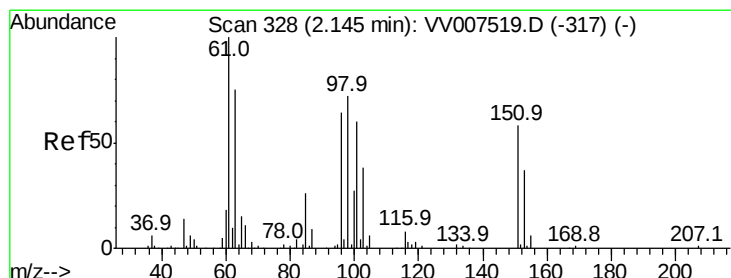
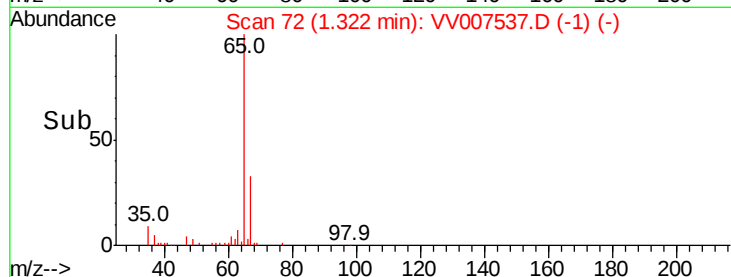
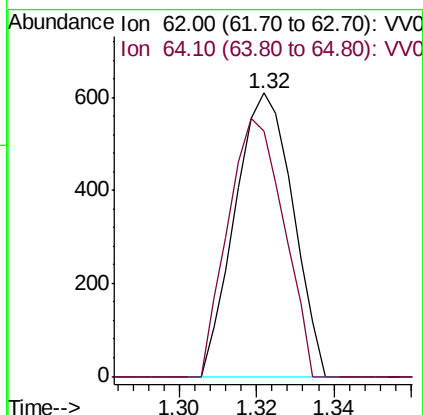
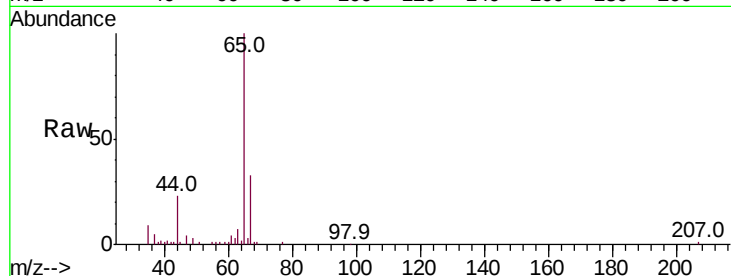
ClientSampleId :

Tot Ion: 62 Resp: 632

Ion Ratio Lower Upper

62 100

64 86.6 24.4 45.2#



#12

1,1-Dichloroethene

Concen: 0.176 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VV007537.D

Acq: 14 Sep 2018 03:48

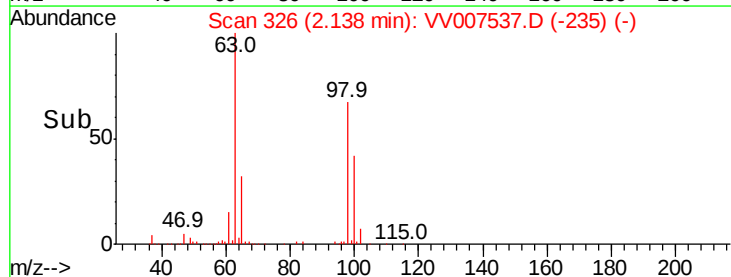
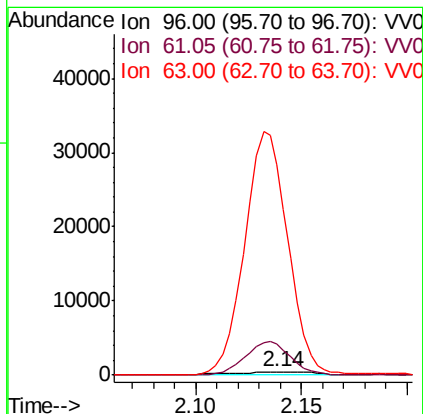
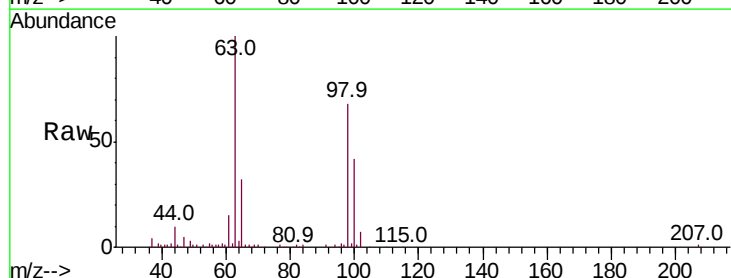
Tgt Ion: 96 Resp: 1110

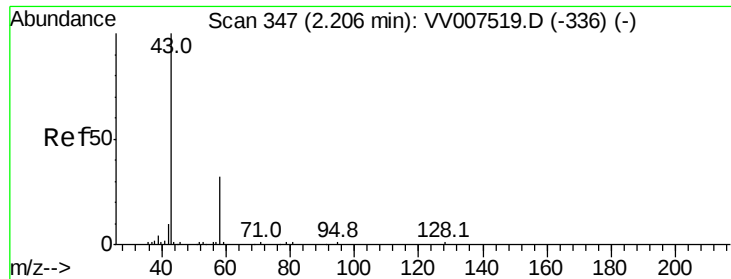
Ion Ratio Lower Upper

96 100

61 883.8 114.8 213.2#

63 6039.1 81.8 151.8#





#13

Acetone

Concen: 7.835 ug/L

RT: 2.21 min Scan# 349

Delta R.T. 0.01 min

Lab File: VV007537.D

Acq: 14 Sep 2018 03:48

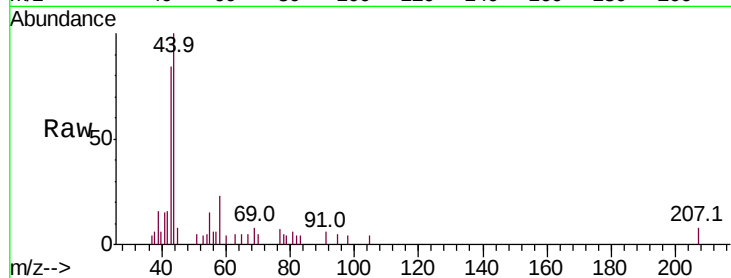
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 4632

Ion Ratio Lower Upper

43 100

58 39.9 0.0 63.4



Abundance Ion 43.05 (42.75 to 43.75): VV007519.D (-336) (-)

Ion 58.05 (57.75 to 58.75): VV007519.D (-336) (-)

2.21

2500

2000

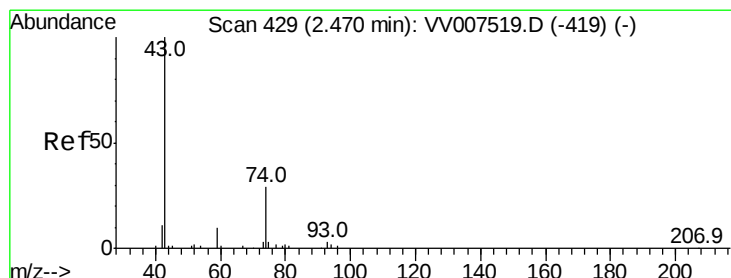
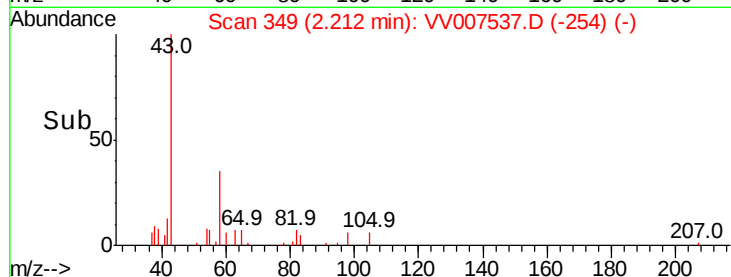
1500

1000

500

0

Time-->



#15

Methyl Acetate

Concen: 0.204 ug/L

RT: 2.51 min Scan# 441

Delta R.T. 0.04 min

Lab File: VV007537.D

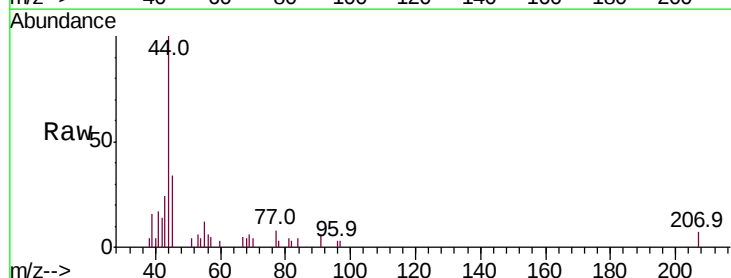
Acq: 14 Sep 2018 03:48

Tgt Ion: 43 Resp: 330

Ion Ratio Lower Upper

43 100

74 6.1 25.4 38.2#



Abundance Ion 43.05 (42.75 to 43.75): VV007519.D (-419) (-)

Ion 74.05 (73.75 to 74.75): VV007519.D (-419) (-)

2.51

1200

1000

800

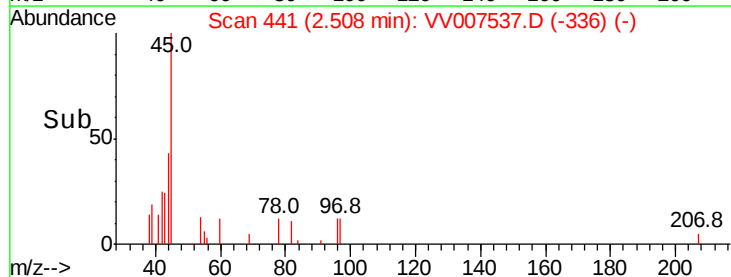
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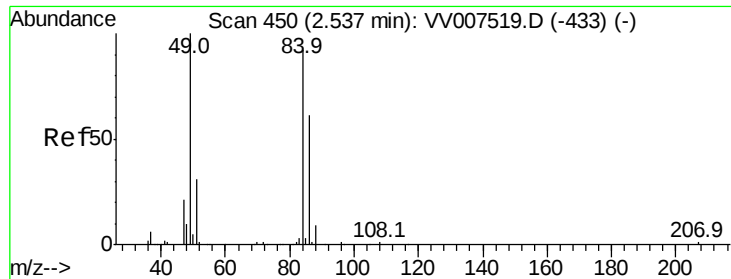
400

200

0

Time-->

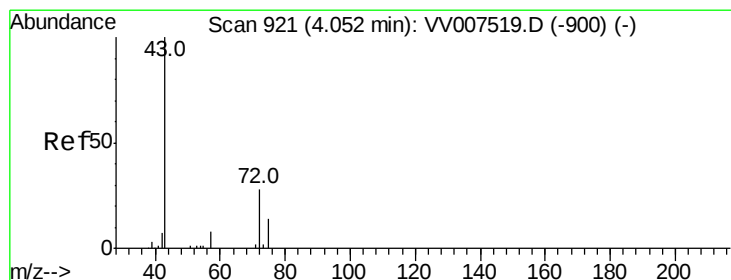
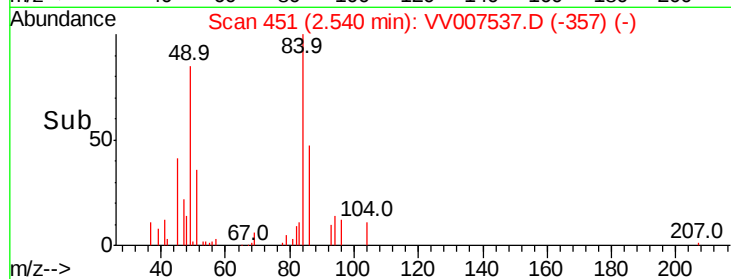
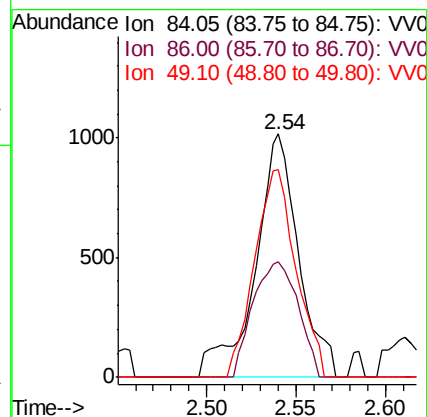
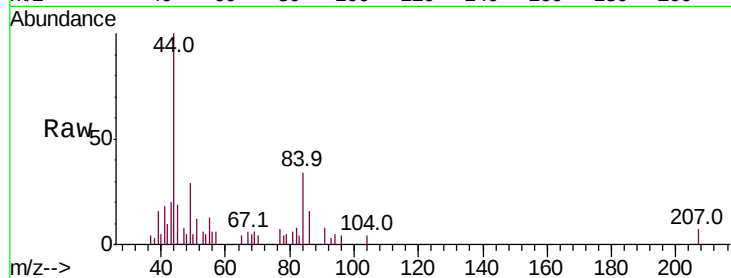




#16  
Methvlene chloride  
Concen: 0.253 ug/L  
RT: 2.54 min Scan# 451  
Delta R.T. 0.00 min  
Lab File: VV007537.D  
Acq: 14 Sep 2018 03:48

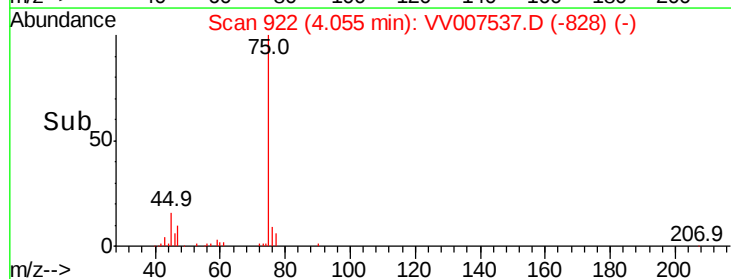
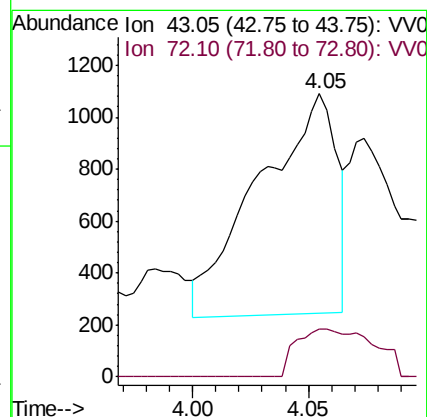
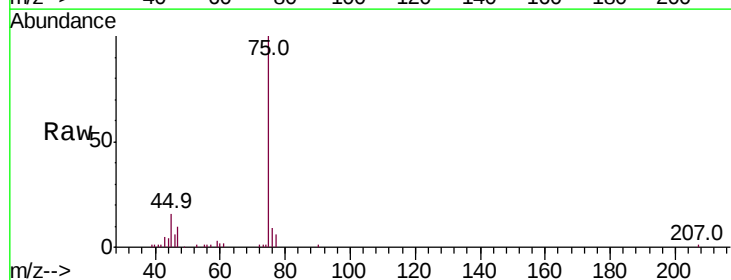
Instrument :  
MSVOA\_V  
ClientSampled :

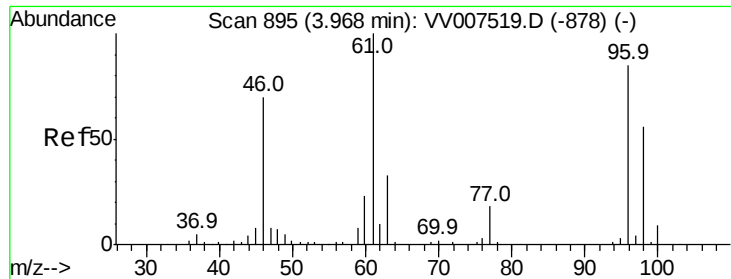
Tot Ion: 84 Resp: 1722  
Ion Ratio Lower Upper  
84 100  
86 47.5 43.7 81.1  
49 85.2 76.8 142.6



#21  
2-Butanone  
Concen: 2.001 ug/L  
RT: 4.05 min Scan# 922  
Delta R.T. 0.00 min  
Lab File: VV007537.D  
Acq: 14 Sep 2018 03:48

Tgt Ion: 43 Resp: 1985  
Ion Ratio Lower Upper  
43 100  
72 21.7 14.2 42.6

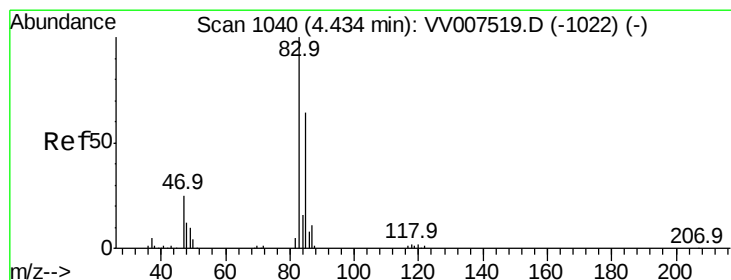
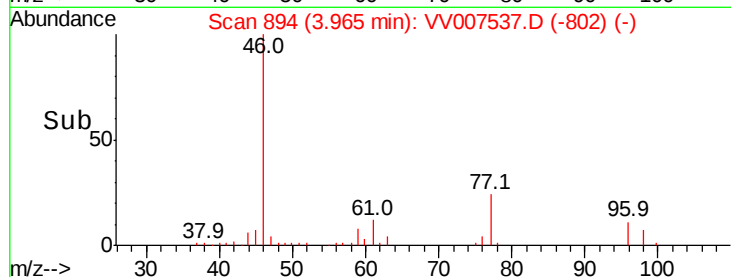
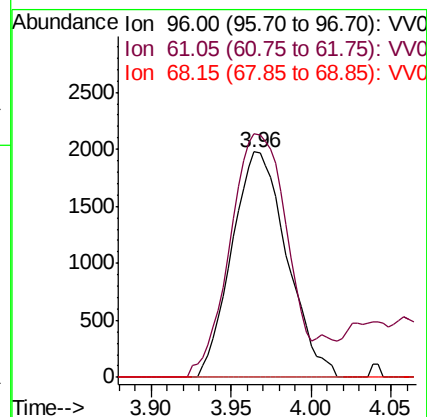
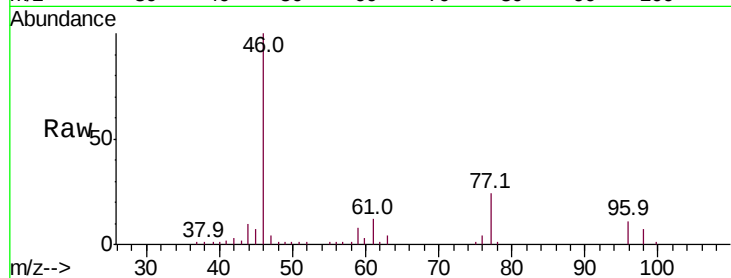




#22  
 cis-1,2-Dichloroethene  
 Concen: 0.690 ug/L  
 RT: 3.96 min Scan# 894  
 Delta R.T. -0.00 min  
 Lab File: VV007537.D  
 Acq: 14 Sep 2018 03:48

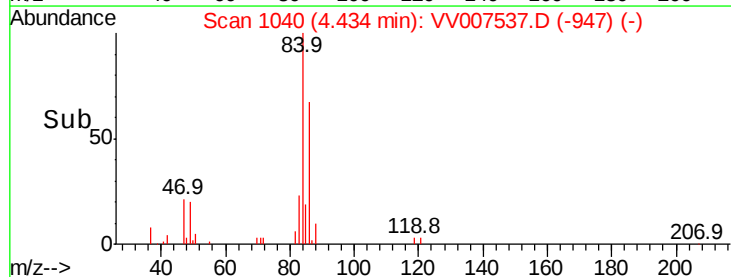
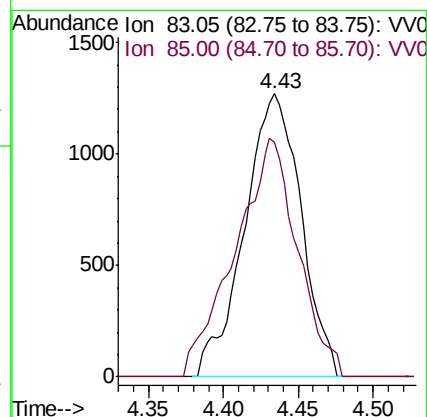
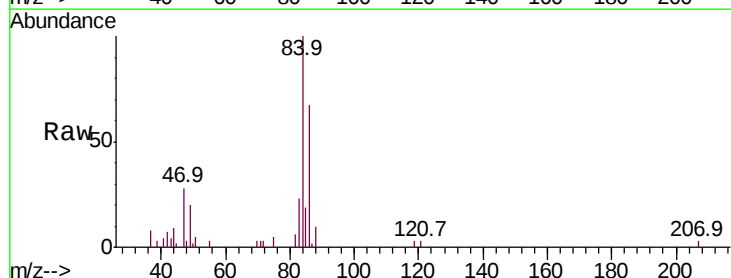
Instrument :  
 MSVOA\_V  
 ClientSampled :

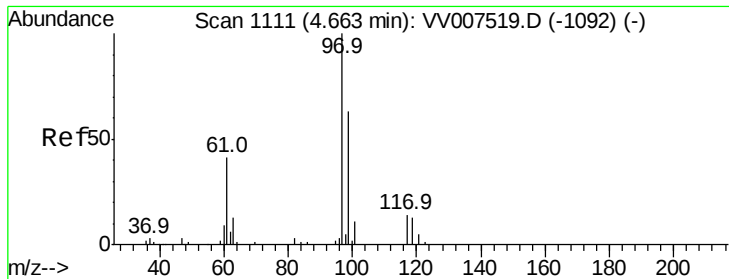
Tot Ion: 96 Resp: 4665  
 Ion Ratio Lower Upper  
 96 100  
 61 107.9 85.3 158.5  
 68 0.0 0.0 0.0



#25  
 Chloroform  
 Concen: 0.292 ug/L  
 RT: 4.43 min Scan# 1040  
 Delta R.T. -0.00 min  
 Lab File: VV007537.D  
 Acq: 14 Sep 2018 03:48

Tgt Ion: 83 Resp: 3335  
 Ion Ratio Lower Upper  
 83 100  
 85 82.8 45.5 84.5



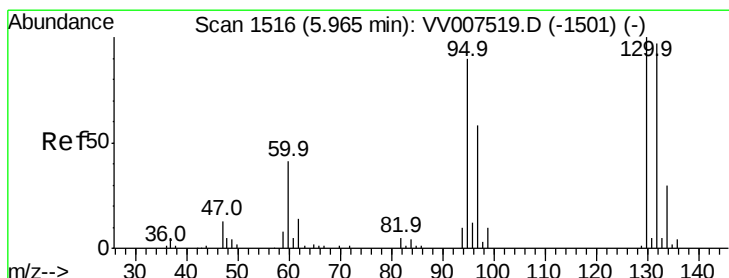
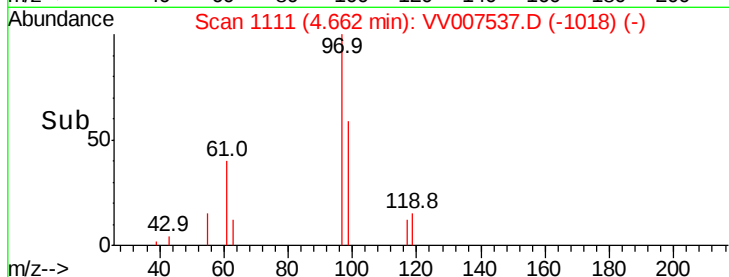
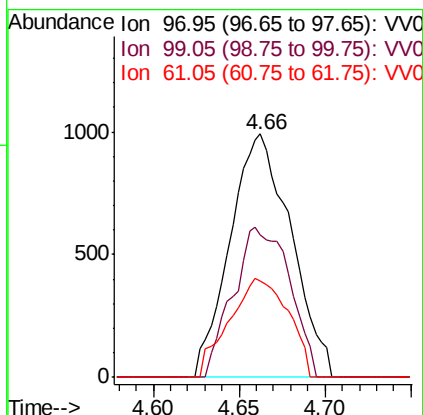
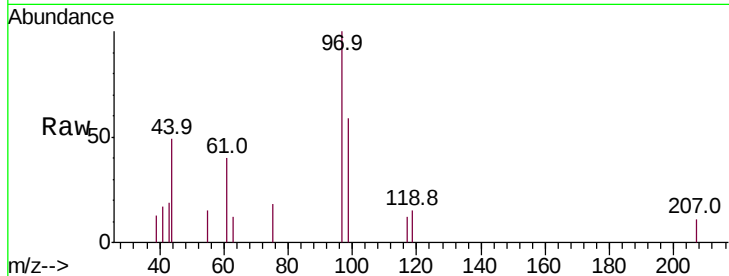


#29  
 1,1,1-Trichloroethane  
 Concen: 0.227 ug/L  
 RT: 4.66 min Scan# 1111  
 Delta R.T. -0.00 min  
 Lab File: VV007537.D  
 Acq: 14 Sep 2018 03:48

Instrument :  
 MSVOA\_V  
 ClientSampled :

Tot Ion: 97 Resp: 2439  

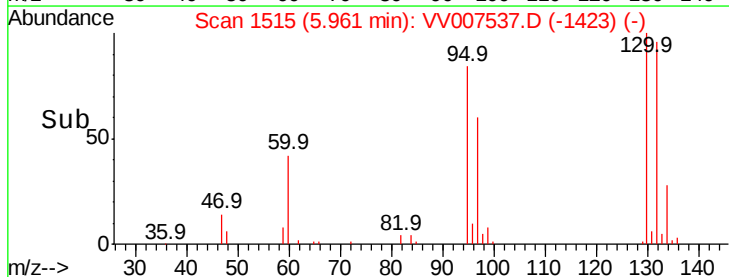
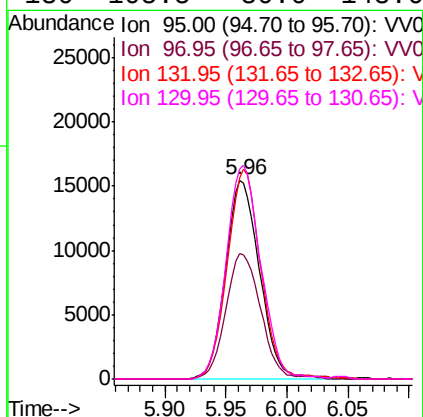
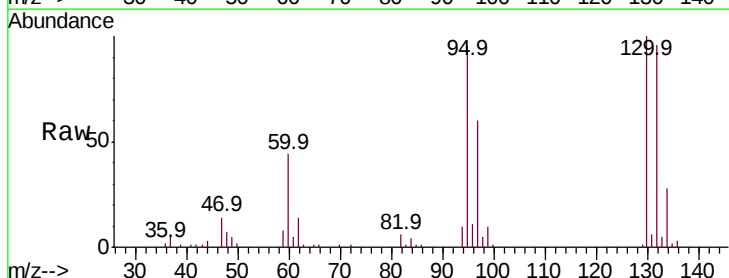
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 57.4  | 50.7  | 76.1  |
| 61  | 39.2  | 32.5  | 48.7  |

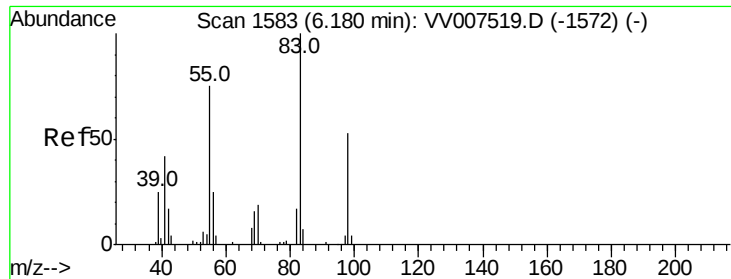


#34  
 Trichloroethene  
 Concen: 4.313 ug/L  
 RT: 5.96 min Scan# 1515  
 Delta R.T. -0.00 min  
 Lab File: VV007537.D  
 Acq: 14 Sep 2018 03:48

Tgt Ion: 95 Resp: 30184  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 63.1  | 45.5  | 84.5  |
| 132 | 101.4 | 74.9  | 139.1 |
| 130 | 105.5 | 80.0  | 148.6 |

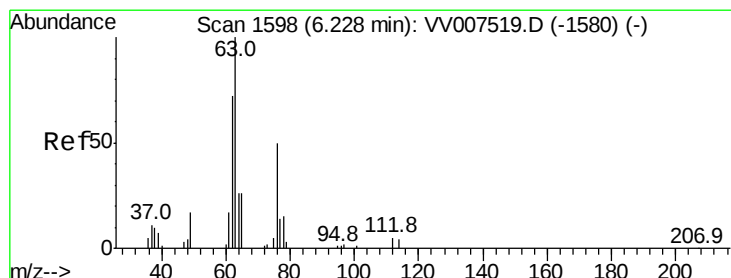
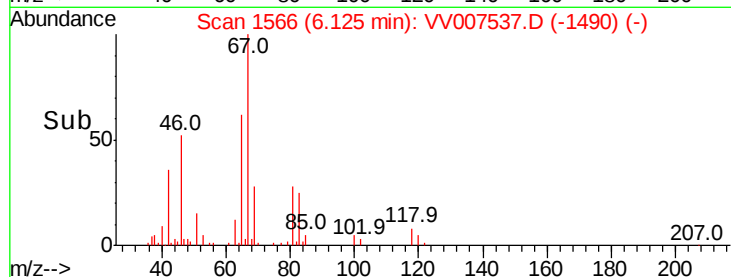
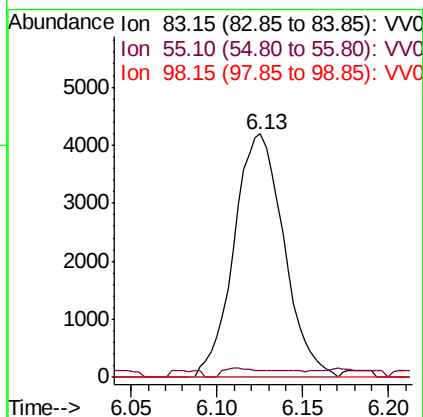
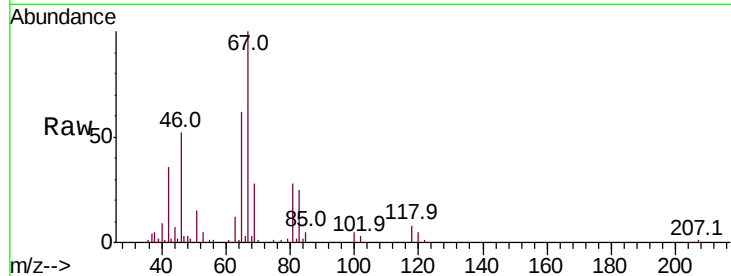




#35  
Methvlcvclohexane  
Concen: 0.783 ug/L  
RT: 6.13 min Scan# 1566  
Delta R.T. -0.05 min  
Lab File: VV007537.D  
Acq: 14 Sep 2018 03:48

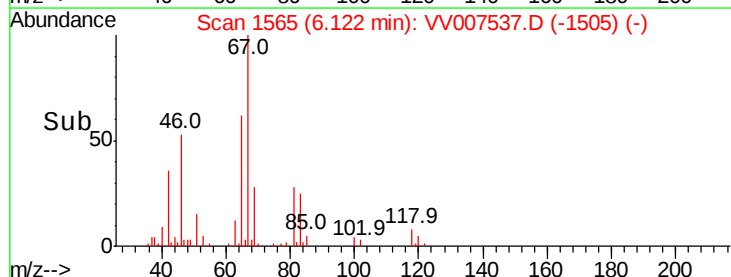
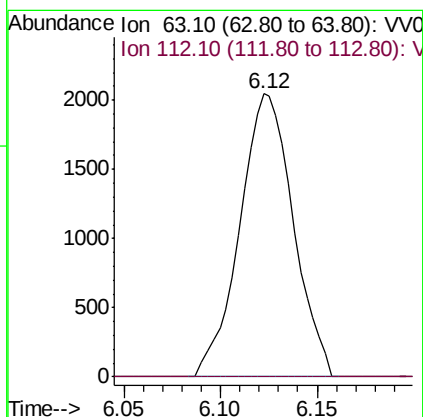
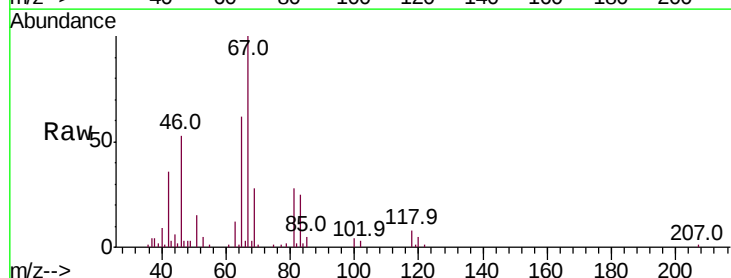
Instrument :  
MSVOA\_V  
ClientSampled :

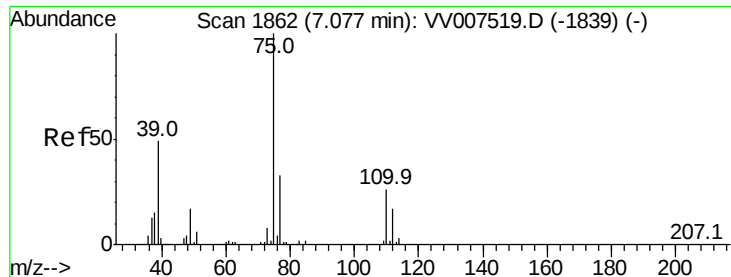
Tot Ion: 83 Resp: 8468  
Ion Ratio Lower Upper  
83 100  
55 3.5 55.0 82.4#  
98 0.0 37.6 56.4#



#37  
1,2-Dichloropropane  
Concen: 0.699 ug/L  
RT: 6.12 min Scan# 1565  
Delta R.T. -0.11 min  
Lab File: VV007537.D  
Acq: 14 Sep 2018 03:48

Tgt Ion: 63 Resp: 3930  
Ion Ratio Lower Upper  
63 100  
112 0.0 4.1 6.1#





#39

cis-1,3-Dichloropropene

Concen: 0.144 ug/L

RT: 7.03 min Scan# 1848

Delta R.T. -0.05 min

Lab File: VV007537.D

Acq: 14 Sep 2018 03:48

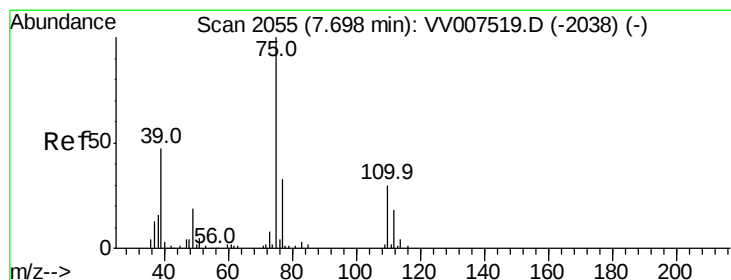
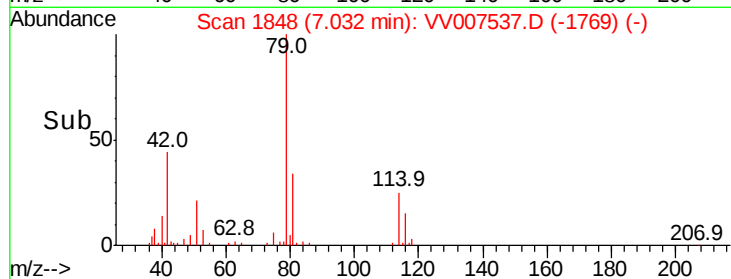
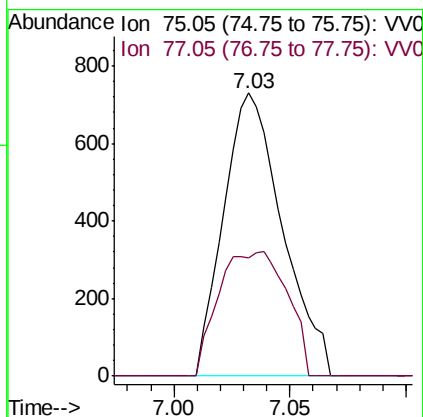
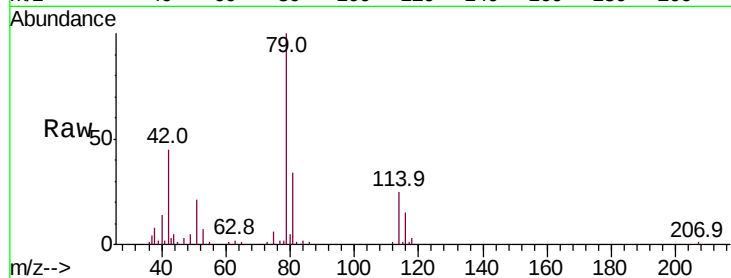
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 75 Resp: 1286

Ion Ratio Lower Upper

75 100

77 41.9 22.0 41.0#



#44

trans-1,3-Dichloropropene

Concen: 0.091 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV007537.D

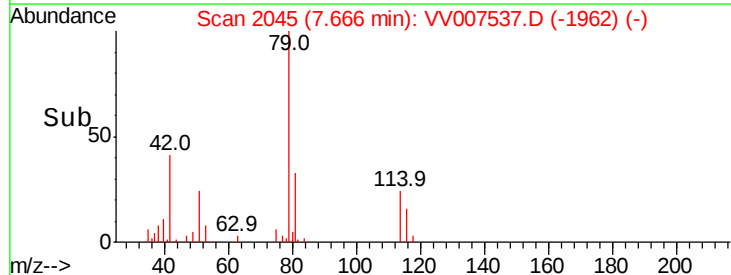
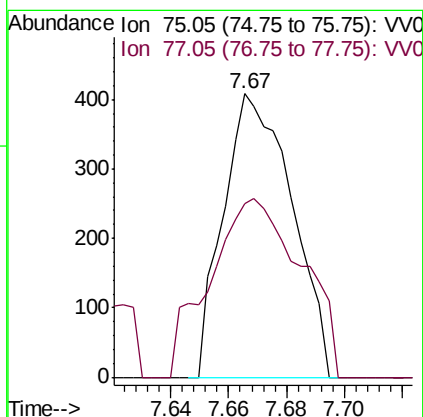
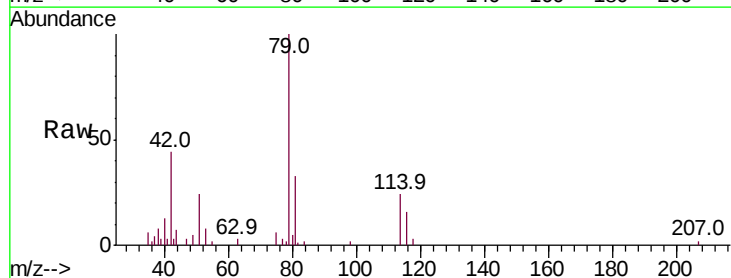
Acq: 14 Sep 2018 03:48

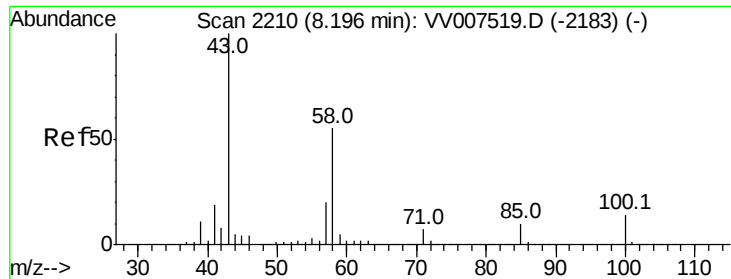
Tgt Ion: 75 Resp: 669

Ion Ratio Lower Upper

75 100

77 61.3 23.4 43.4#

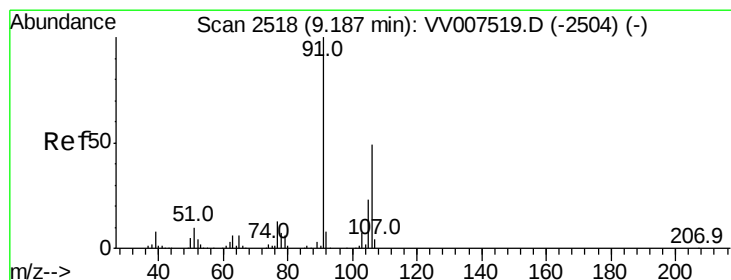
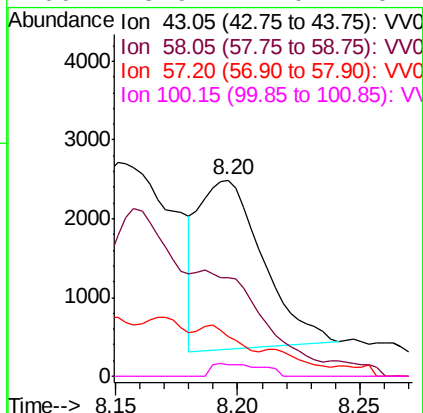
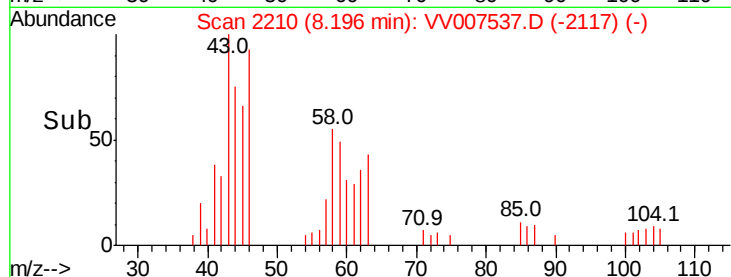
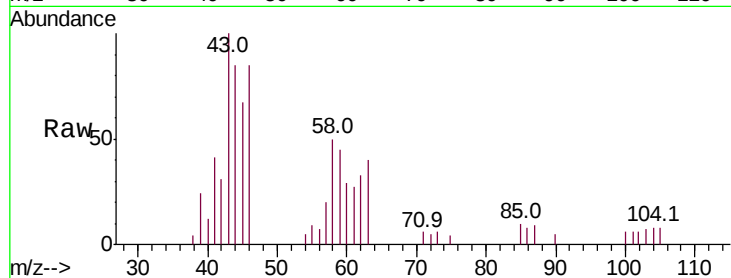




#48  
2-Hexanone  
Concen: 1.662 ug/L  
RT: 8.20 min Scan# 2210  
Delta R.T. -0.00 min  
Lab File: VV007537.D  
Acq: 14 Sep 2018 03:48

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 3918  
Ion Ratio Lower Upper  
43 100  
58 0.0 49.8 74.6#  
57 8.6 18.2 27.4#  
100 5.9 11.0 16.4#



#53  
m,p-xylene  
Concen: 0.105 ug/L  
RT: 9.18 min Scan# 2517  
Delta R.T. -0.00 min  
Lab File: VV007537.D  
Acq: 14 Sep 2018 03:48

Tgt Ion: 106 Resp: 1211  
Ion Ratio Lower Upper  
106 100  
91 214.7 137.2 254.8

