

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW110518\  
 Data File : VW006640.D  
 Acq On : 05 Nov 2018 16:58  
 Operator : SY/AP  
 Sample : J5696-04  
 Misc : 4.83G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DL-SED-02

Quant Time: Nov 06 01:58:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W110218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 01 03:48:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 178508   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 267772   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 181095   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 57681    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 75853    | 49.43 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.86% |      |
| 35) Dibromofluoromethane    | 7.89   | 113 | 80318    | 47.79 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.58% |      |
| 50) Toluene-d8              | 10.33  | 98  | 206204   | 32.23 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 64.46% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 51357    | 22.14 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 44.28% |      |

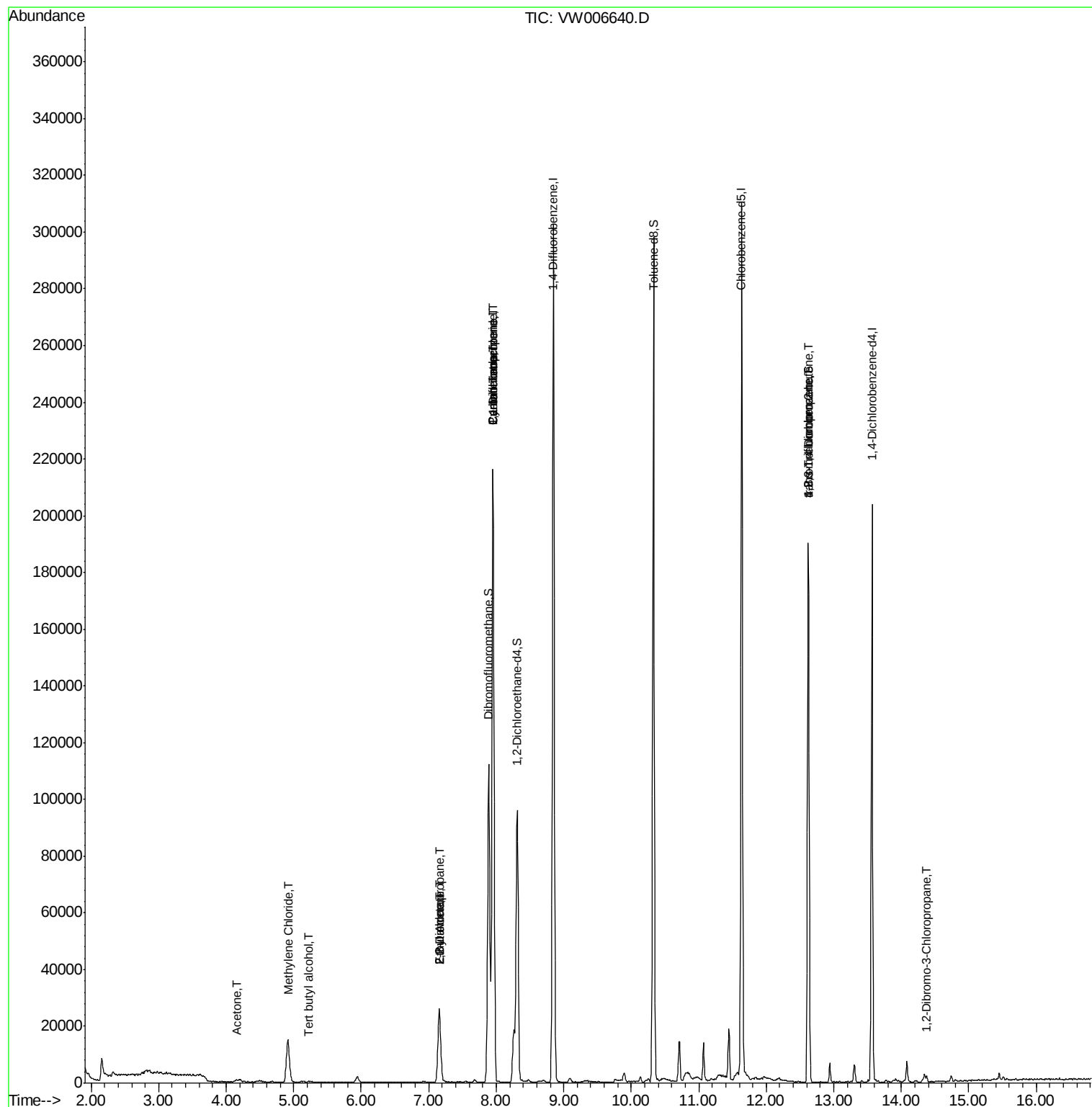
| Target Compounds               |       |     |       |         |        | Qvalue |
|--------------------------------|-------|-----|-------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.23  | 59  | 798   | 9.652   | ug/l # | 84     |
| 16) Acetone                    | 4.15  | 43  | 1898  | 7.661   | ug/l # | 77     |
| 20) Methylene Chloride         | 4.92  | 84  | 12676 | 2.183   | ug/l   | 93     |
| 25) 2-Butanone                 | 7.16  | 43  | 1322  | 3.740   | ug/l # | 71     |
| 26) 2,2-Dichloropropane        | 7.15  | 77  | 1822  | 1.126   | ug/l # | 49     |
| 31) Cyclohexane                | 7.95  | 56  | 3041  | 1.244   | ug/l # | 10     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 11024 | 4.681   | ug/l # | 48     |
| 37) Ethyl Acetate              | 7.16  | 43  | 1322  | 1.620   | ug/l # | 1      |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 15807 | 6.424   | ug/l # | 18     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 25982 | 57.732  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 25982 | 144.215 | ug/l # | 11     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75  | 98    | 1.006   | ug/l # | 1      |

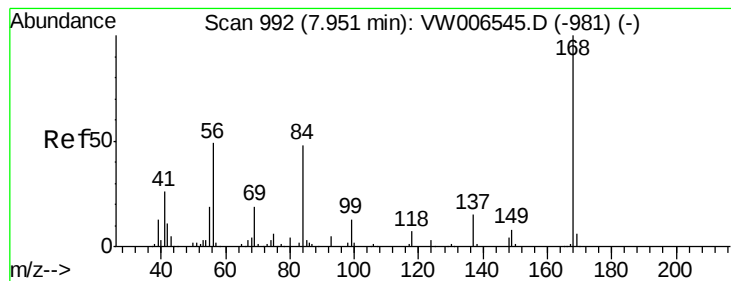
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Nov 01 03:48:08 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006640.D

Acq: 05 Nov 2018 16:58

Instrument :

MSVOA\_W

ClientSampleId :

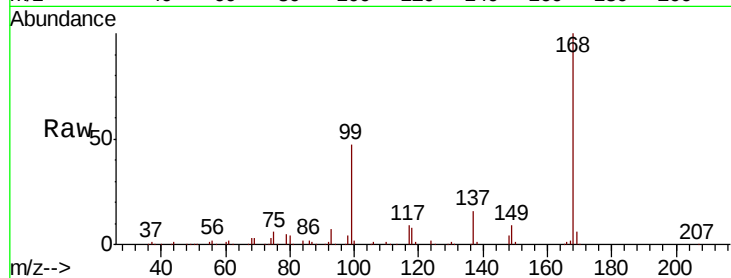
DL-SED-02

Tgt Ion: 168 Resp: 178508

Ion Ratio Lower Upper

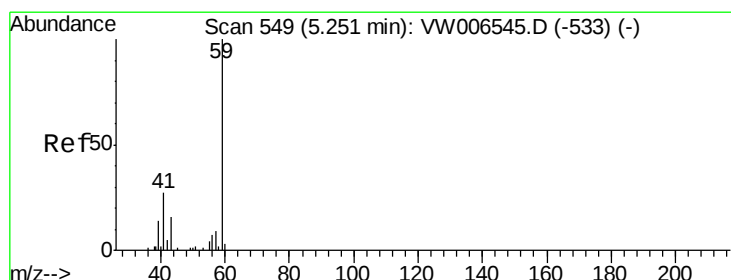
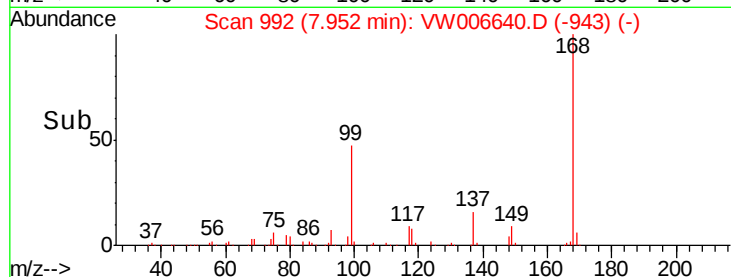
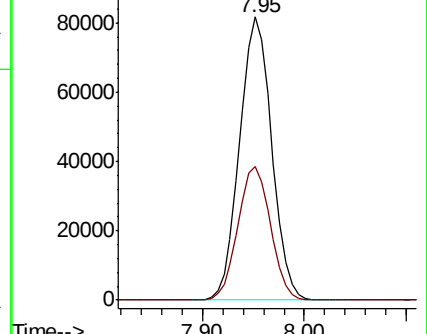
168 100

99 47.2 37.4 56.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 9.652 ug/l

RT: 5.23 min Scan# 546

Delta R.T. -0.02 min

Lab File: VW006640.D

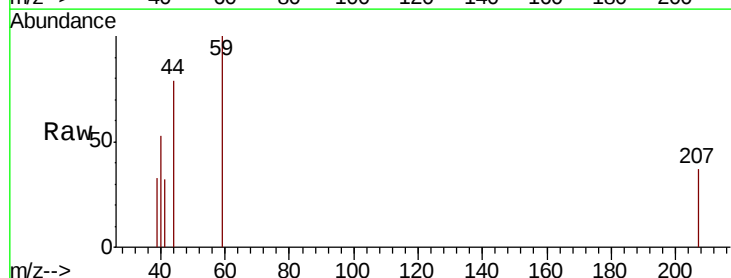
Acq: 05 Nov 2018 16:58

Tgt Ion: 59 Resp: 798

Ion Ratio Lower Upper

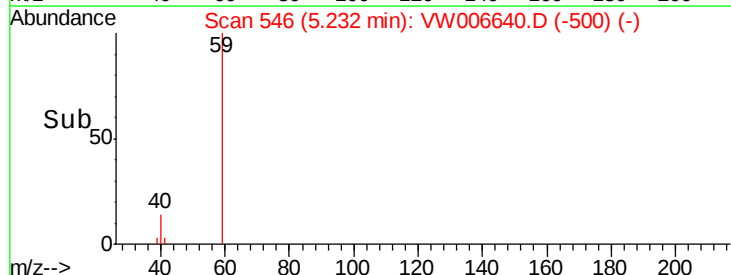
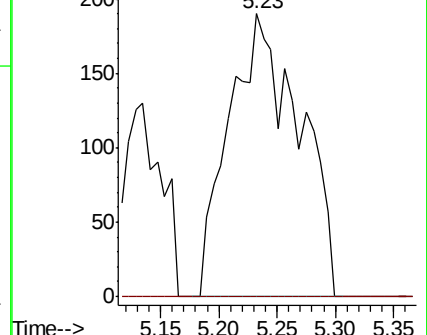
59 100

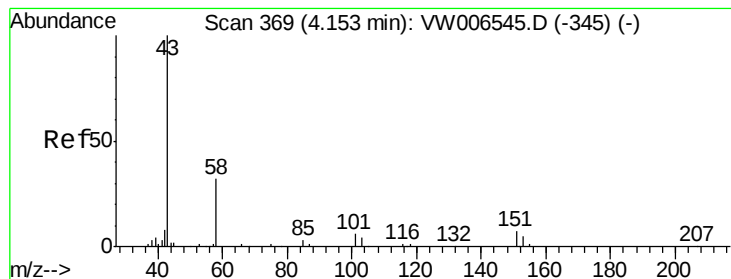
57 0.0 4.3 6.5#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 7.661 ug/l

RT: 4.15 min Scan# 368

Delta R.T. -0.01 min

Lab File: VW006640.D

Acq: 05 Nov 2018 16:58

Instrument :

MSVOA\_W

ClientSampleId :

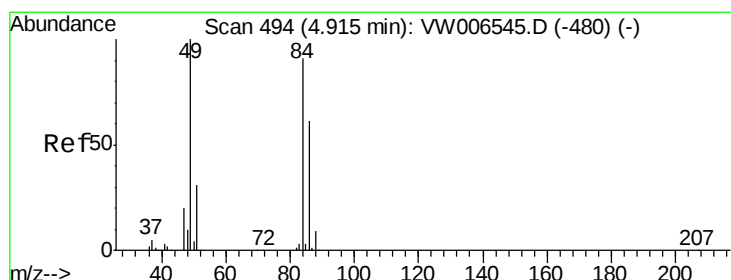
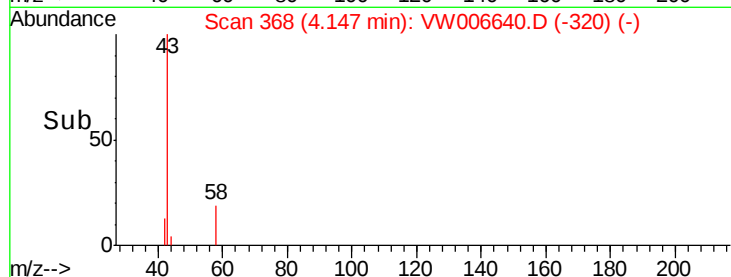
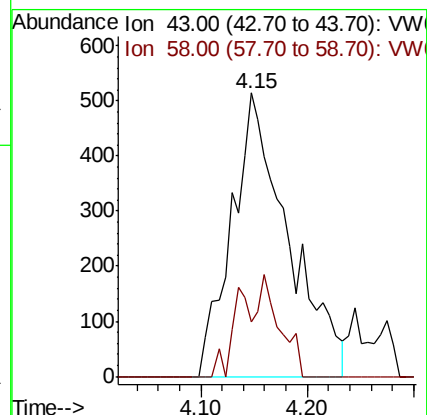
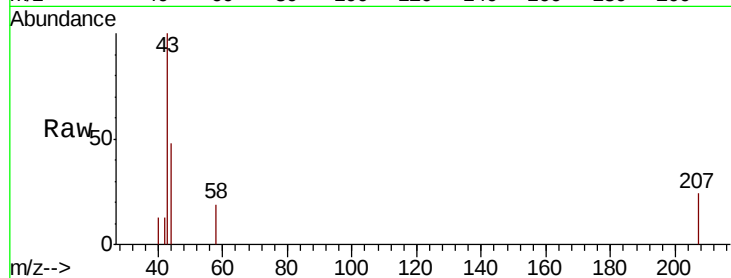
DL-SED-02

Tgt Ion: 43 Resp: 1898

Ion Ratio Lower Upper

43 100

58 19.5 25.8 38.8#



#20

Methylene Chloride

Concen: 2.183 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW006640.D

Acq: 05 Nov 2018 16:58

Tgt Ion: 84 Resp: 12676

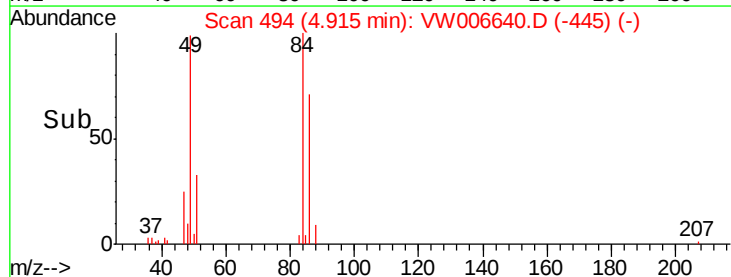
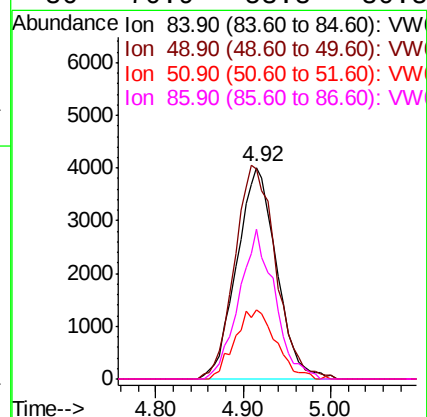
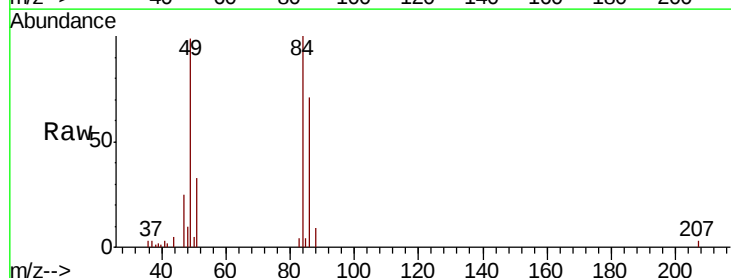
Ion Ratio Lower Upper

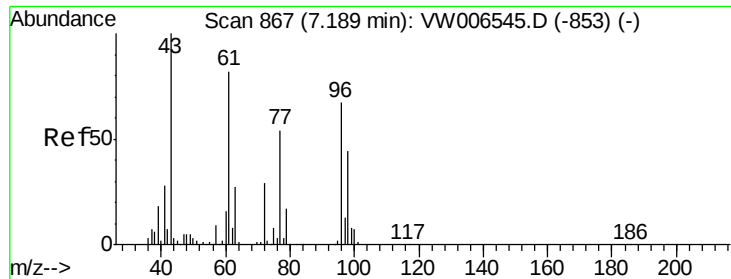
84 100

49 99.2 88.2 132.4

51 32.8 27.0 40.6

86 70.9 53.8 80.8





#25

2-Butanone

Concen: 3.740 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.03 min

Lab File: VW006640.D

Acq: 05 Nov 2018 16:58

Instrument :

MSVOA\_W

ClientSampled :

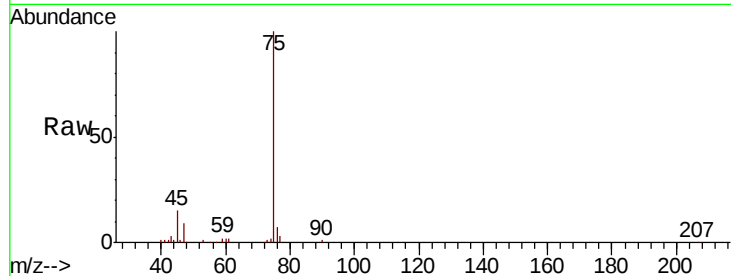
DL-SED-02

Tgt Ion: 43 Resp: 1322

Ion Ratio Lower Upper

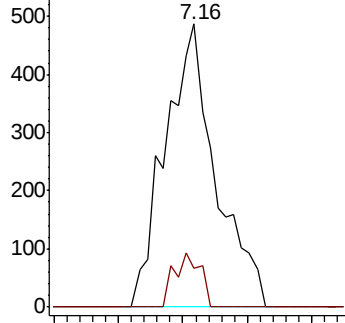
43 100

72 13.6 23.2 34.8#

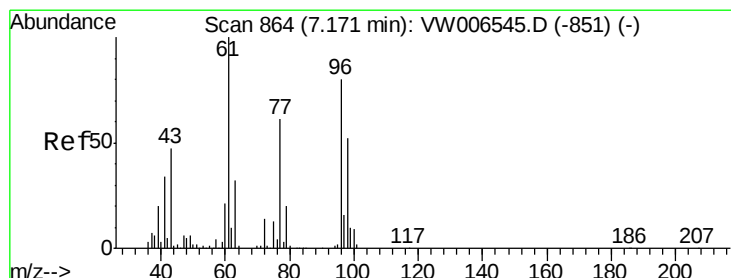
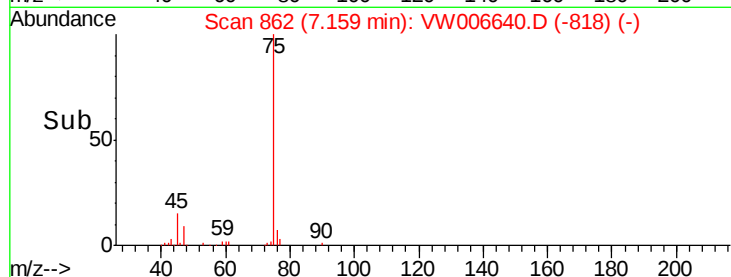


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



Time--> 7.05 7.10 7.15 7.20 7.25



#26

2,2-Dichloropropane

Concen: 1.126 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW006640.D

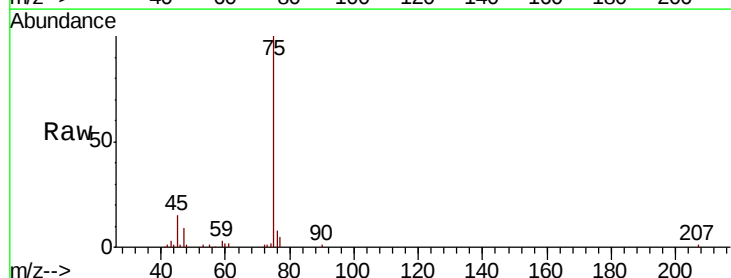
Acq: 05 Nov 2018 16:58

Tgt Ion: 77 Resp: 1822

Ion Ratio Lower Upper

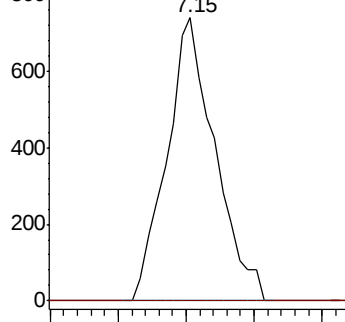
77 100

97 0.0 12.8 38.4#

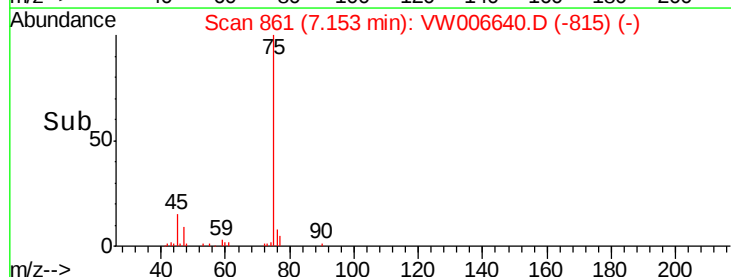


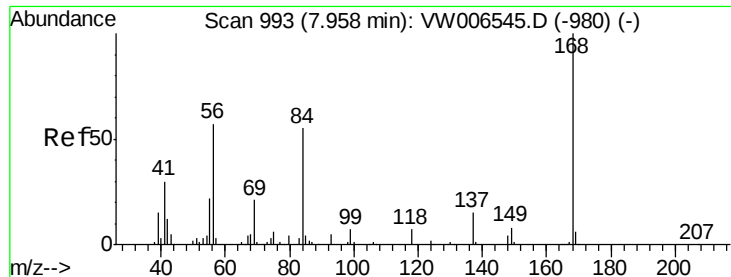
Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



Time--> 7.05 7.10 7.15 7.20 7.25

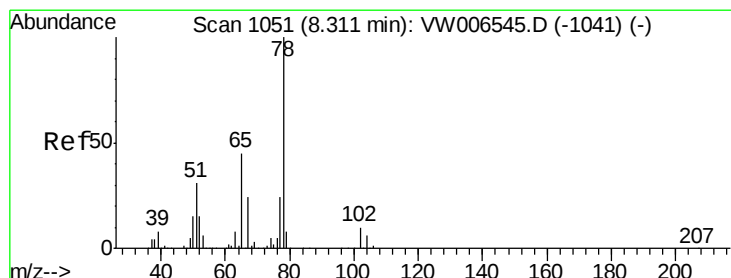
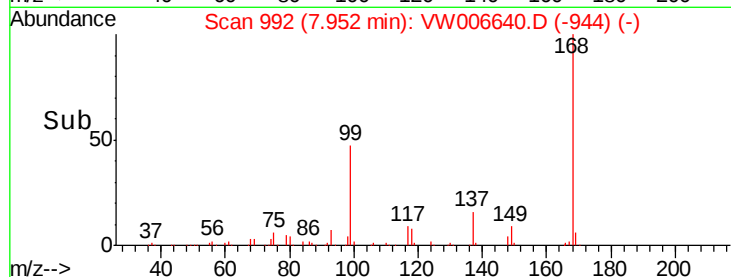
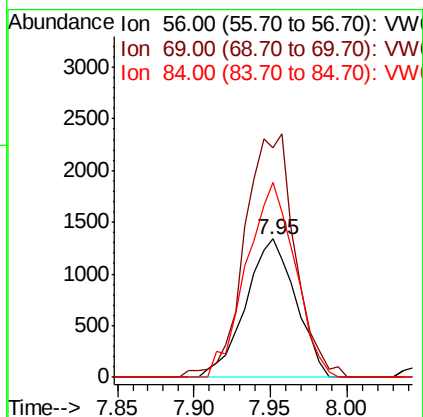
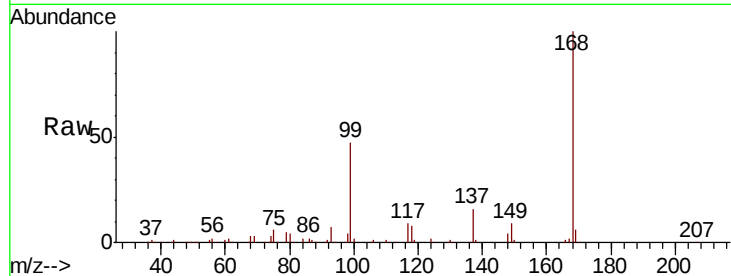




#31  
Cyclohexane  
Concen: 1.244 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW006640.D  
Acq: 05 Nov 2018 16:58

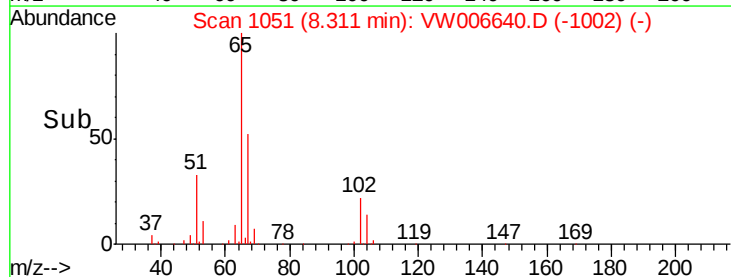
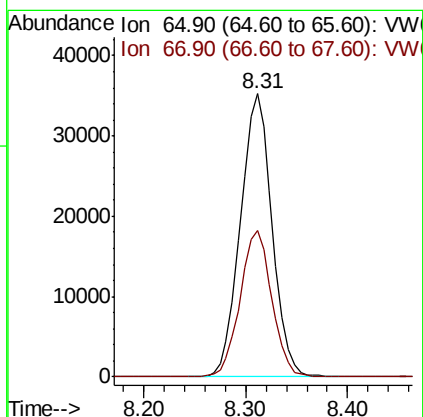
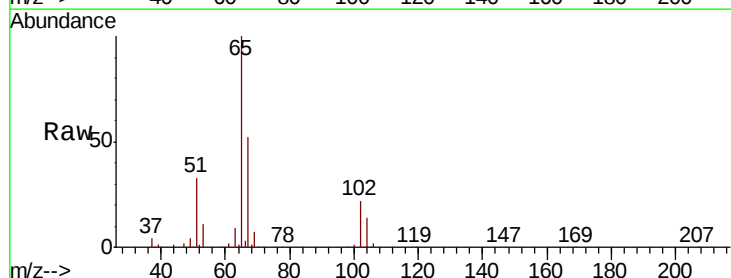
Instrument :  
MSVOA\_W  
ClientSampled :  
DL-SED-02

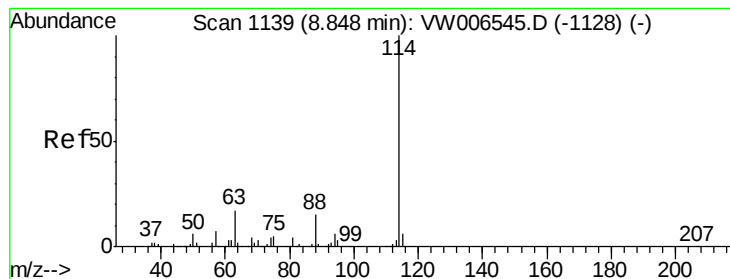
Tgt Ion: 56 Resp: 3041  
Ion Ratio Lower Upper  
56 100  
69 160.7 29.0 43.4#  
84 140.9 77.8 116.6#



#33  
1,2-Dichloroethane-d4  
Concen: 49.433 ug/l  
RT: 8.31 min Scan# 1051  
Delta R.T. 0.00 min  
Lab File: VW006640.D  
Acq: 05 Nov 2018 16:58

Tgt Ion: 65 Resp: 75853  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. 0.00 min

Lab File: VW006640.D

Acq: 05 Nov 2018 16:58

Instrument :

MSVOA\_W

ClientSampleId :

DL-SED-02

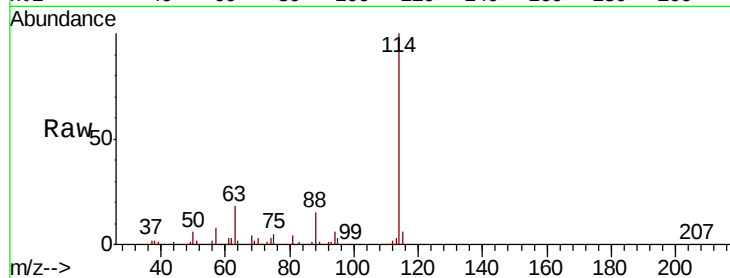
Tgt Ion:114 Resp: 267772

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.4

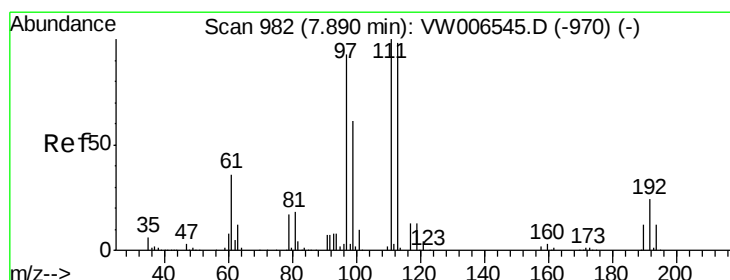
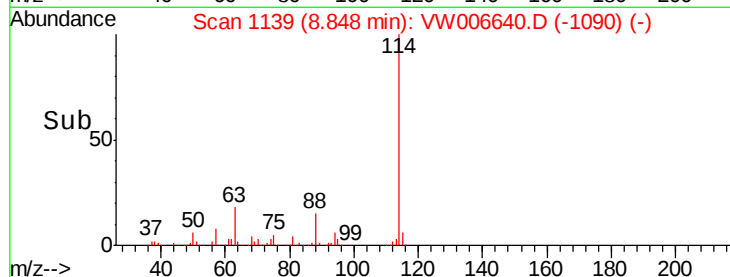
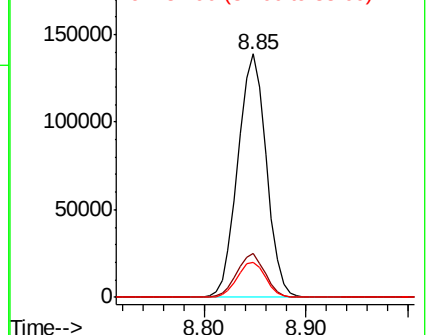
88 14.6 0.0 29.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 47.795 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.00 min

Lab File: VW006640.D

Acq: 05 Nov 2018 16:58

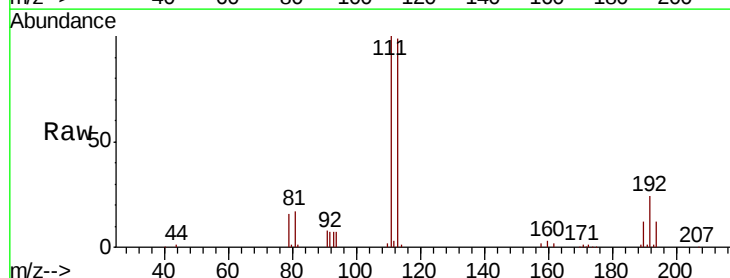
Tgt Ion:113 Resp: 80318

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.2

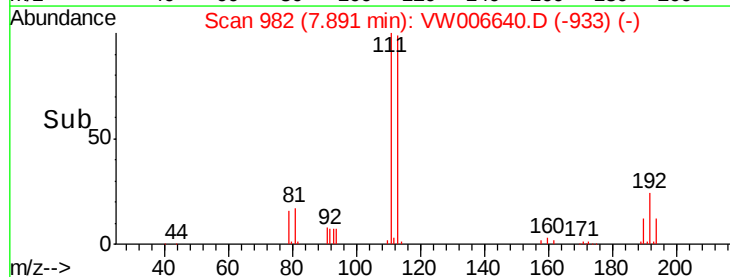
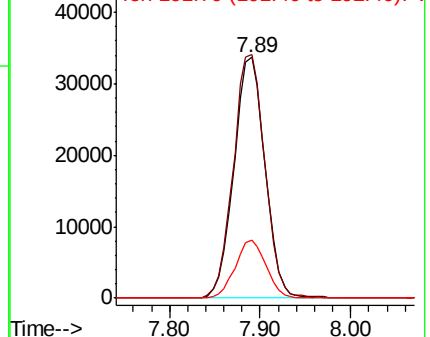
192 23.7 19.0 28.6

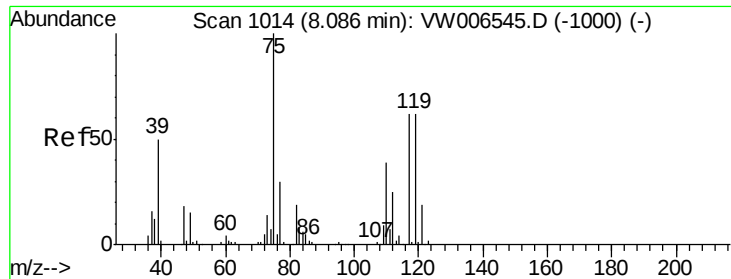


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

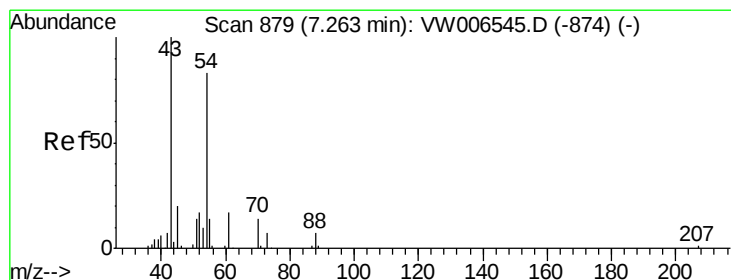
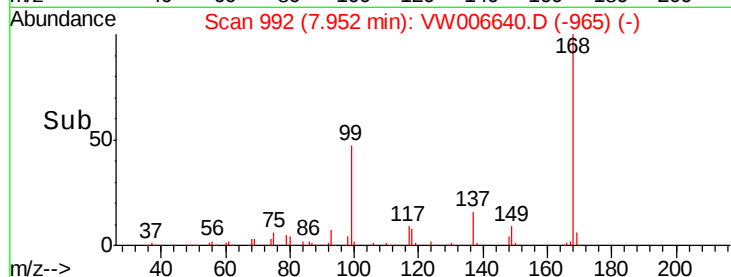
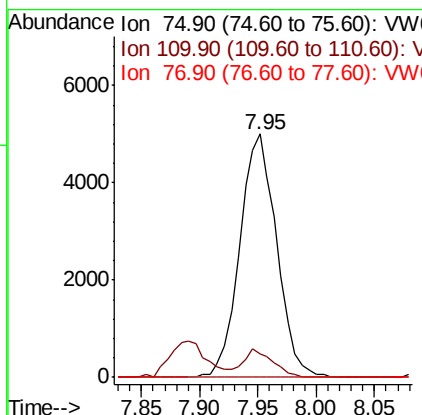
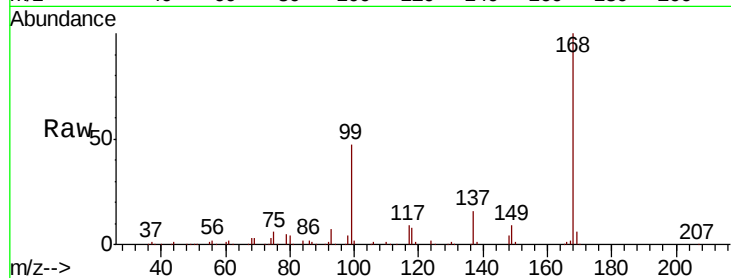




#36  
 1,1-Dichloropropene  
 Concen: 4.681 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW006640.D  
 Acq: 05 Nov 2018 16:58

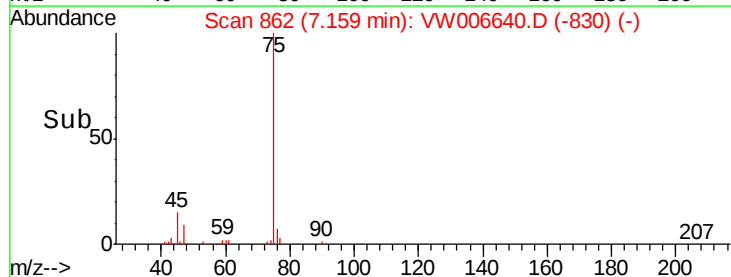
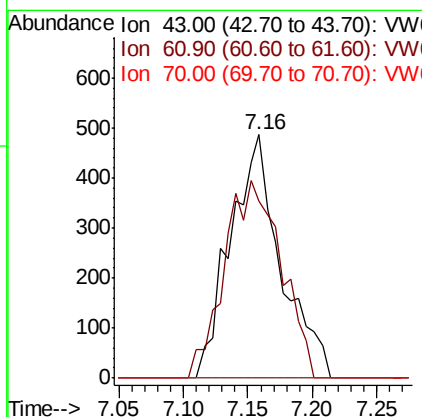
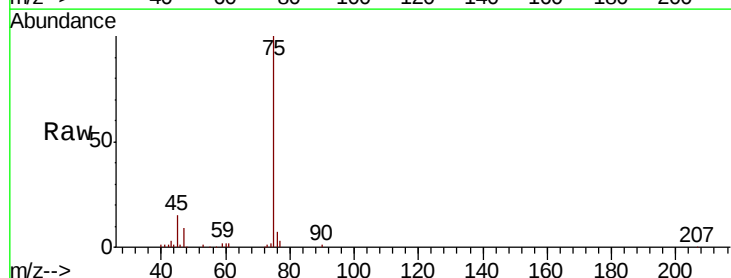
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DL-SED-02

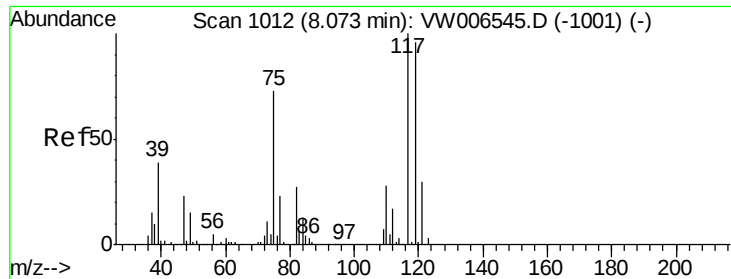
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.8   | 19.5  | 58.5# |
| 77      | 0.0   | 24.6  | 37.0# |



#37  
 Ethyl Acetate  
 Concen: 1.620 ug/l  
 RT: 7.16 min Scan# 862  
 Delta R.T. -0.10 min  
 Lab File: VW006640.D  
 Acq: 05 Nov 2018 16:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 91.9  | 12.1  | 18.1# |
| 70      | 0.0   | 9.8   | 14.6# |

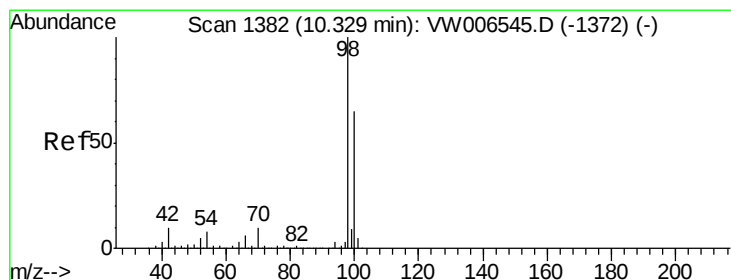
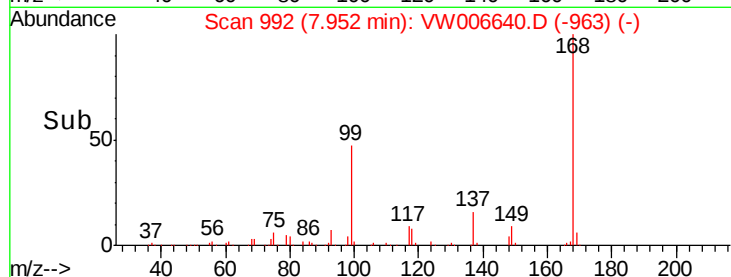
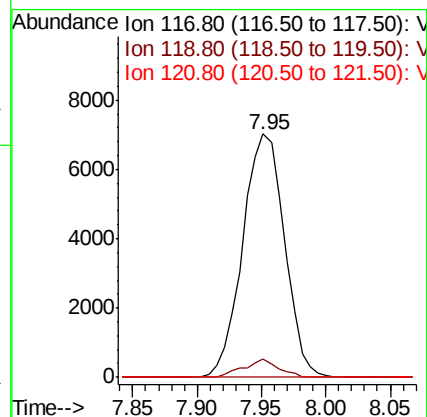
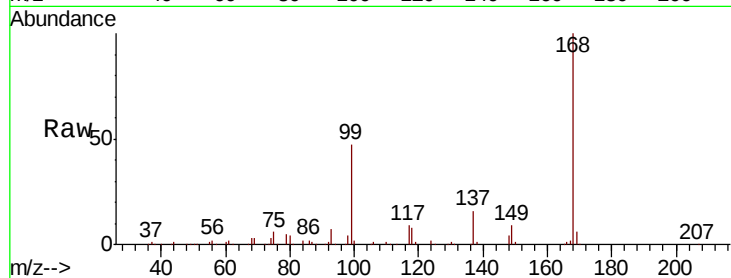




#38  
Carbon Tetrachloride  
Concen: 6.424 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW006640.D  
Acq: 05 Nov 2018 16:58

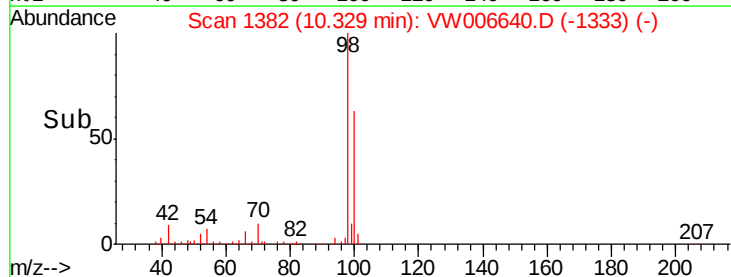
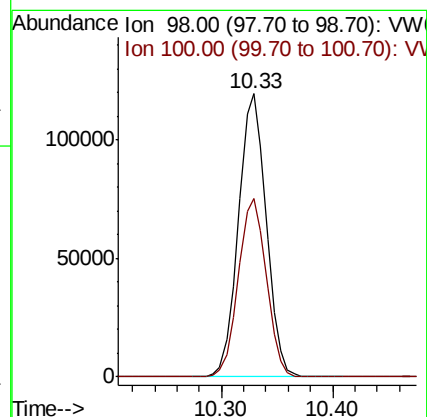
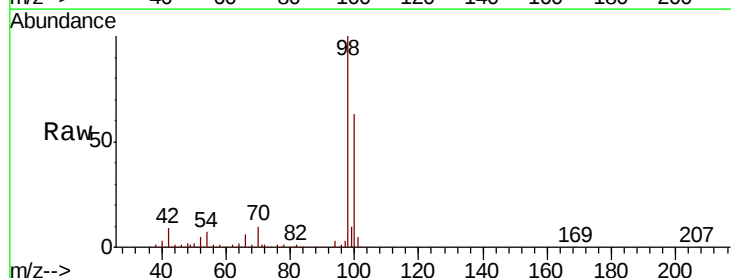
Instrument :  
MSVOA\_W  
ClientSampleId :  
DL-SED-02

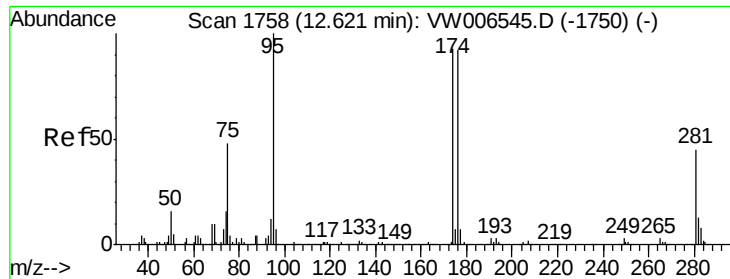
Tgt Ion:117 Resp: 15807  
Ion Ratio Lower Upper  
117 100  
119 7.6 76.3 114.5#  
121 0.0 24.1 36.1#



#50  
Toluene-d8  
Concen: 32.233 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. 0.00 min  
Lab File: VW006640.D  
Acq: 05 Nov 2018 16:58

Tgt Ion: 98 Resp: 206204  
Ion Ratio Lower Upper  
98 100  
100 63.6 51.6 77.4





#62

4-Bromofluorobenzene

Concen: 22.144 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW006640.D

Acq: 05 Nov 2018 16:58

Instrument :

MSVOA\_W

ClientSampleId :

DL-SED-02

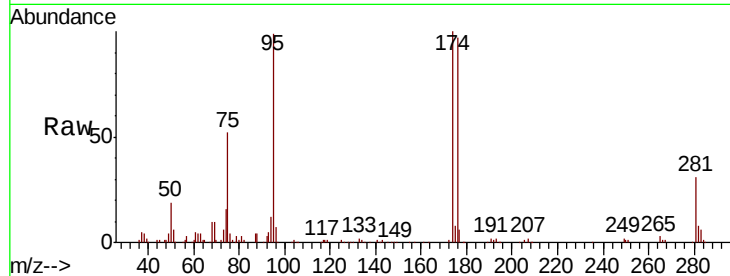
Tgt Ion: 95 Resp: 51357

Ion Ratio Lower Upper

95 100

174 102.2 0.0 192.4

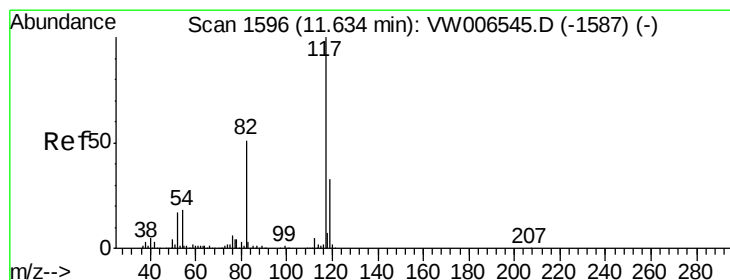
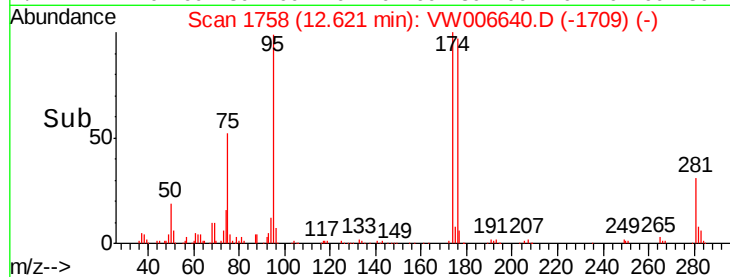
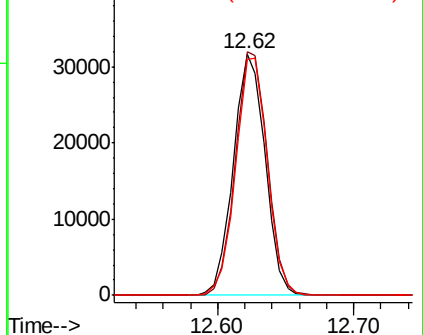
176 98.6 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW006640.D

Acq: 05 Nov 2018 16:58

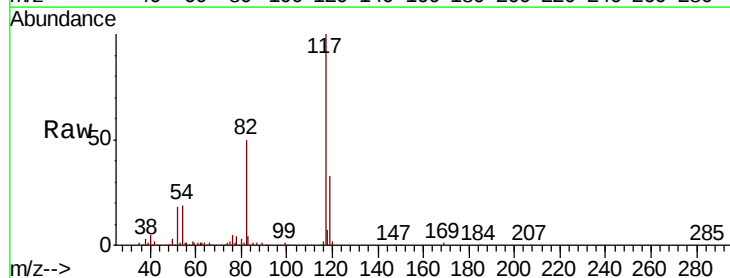
Tgt Ion: 117 Resp: 181095

Ion Ratio Lower Upper

117 100

82 50.3 40.8 61.2

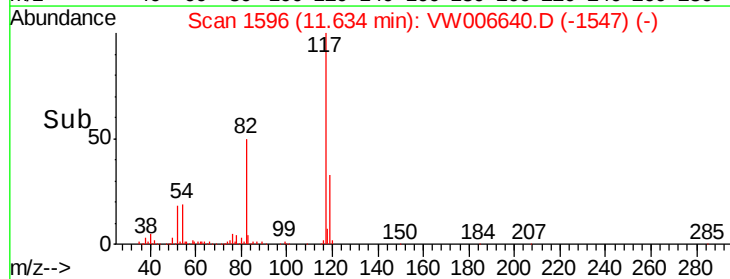
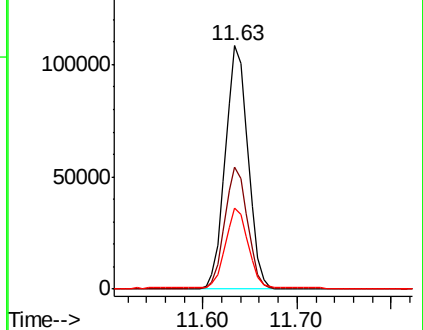
119 33.1 26.1 39.1

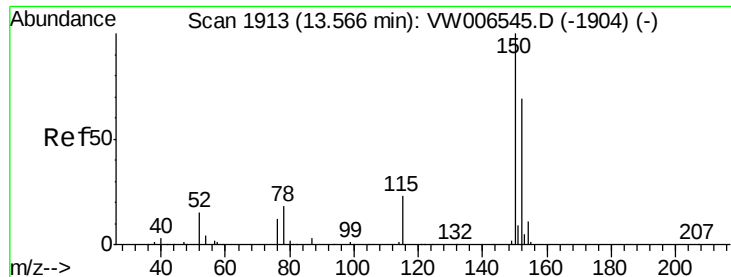


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

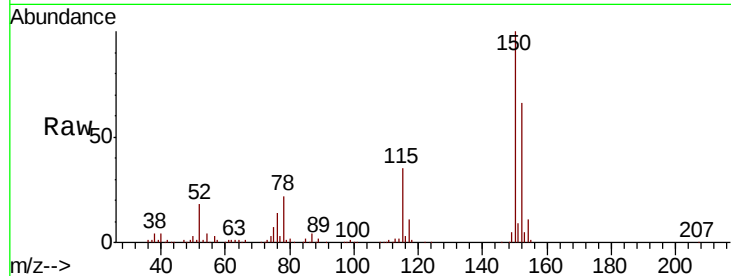




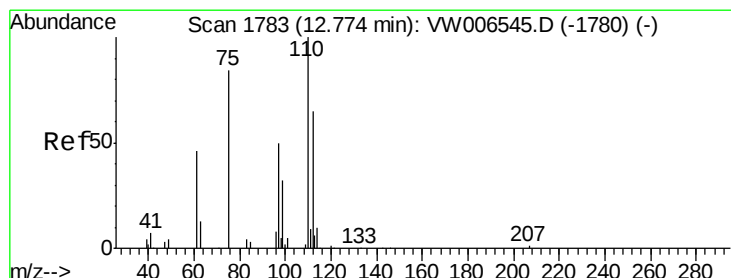
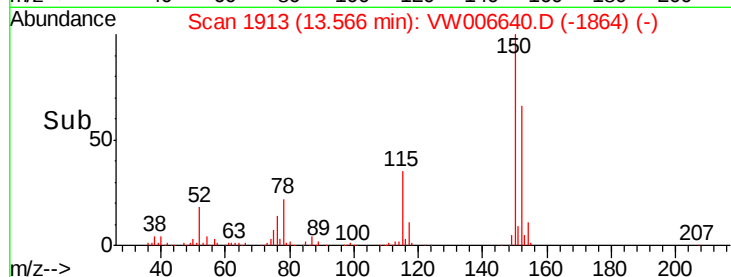
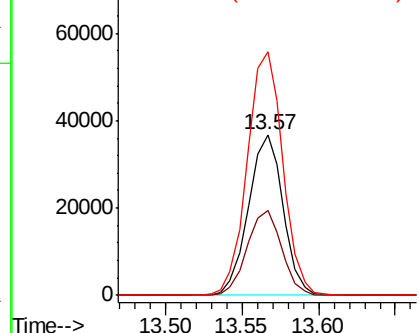
#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.57 min Scan# 1913  
 Delta R.T. 0.00 min  
 Lab File: VW006640.D  
 Acq: 05 Nov 2018 16:58

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DL-SED-02

Tgt Ion:152 Resp: 57681  
 Ion Ratio Lower Upper  
 152 100  
 115 53.2 26.6 79.8  
 150 155.8 0.0 344.6

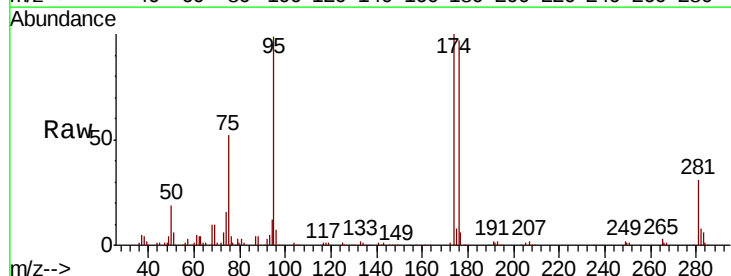


Abundance Ion 151.90 (151.60 to 152.60): V  
 Ion 114.90 (114.60 to 115.60): V  
 Ion 149.90 (149.60 to 150.60): V

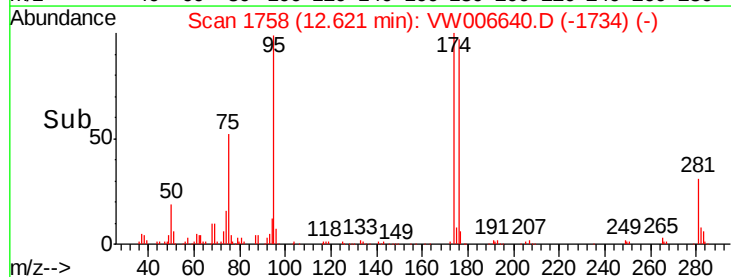
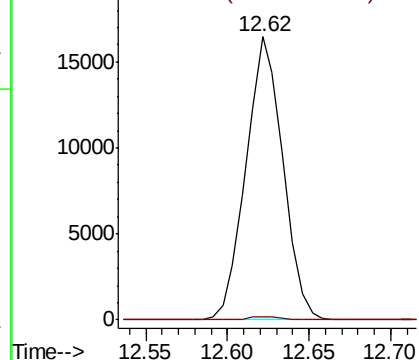


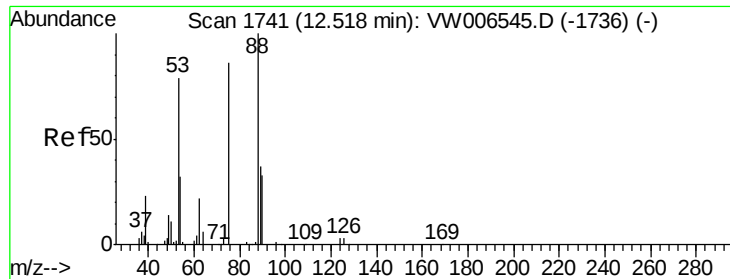
#76  
 1,2,3-Trichloropropane  
 Concen: 57.732 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.15 min  
 Lab File: VW006640.D  
 Acq: 05 Nov 2018 16:58

Tgt Ion: 75 Resp: 25982  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW  
 Ion 77.00 (76.70 to 77.70): VW

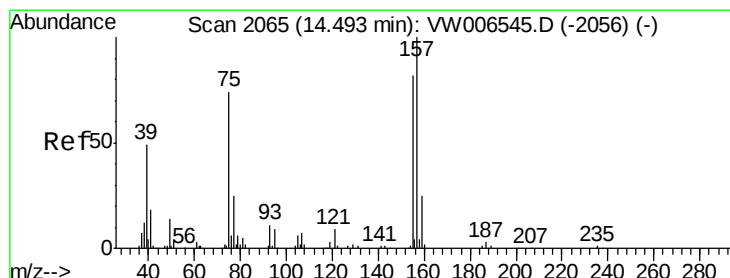
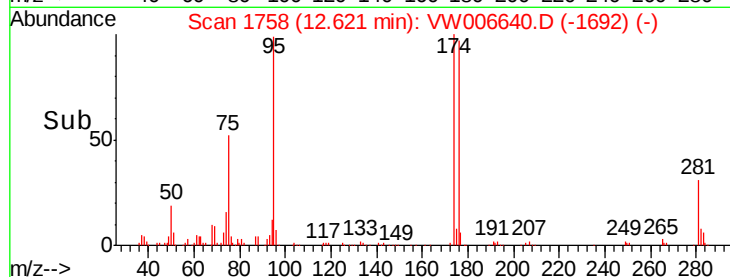
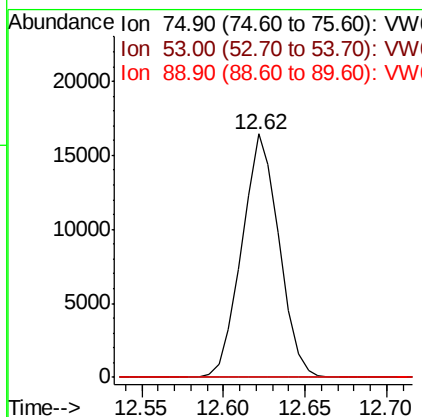
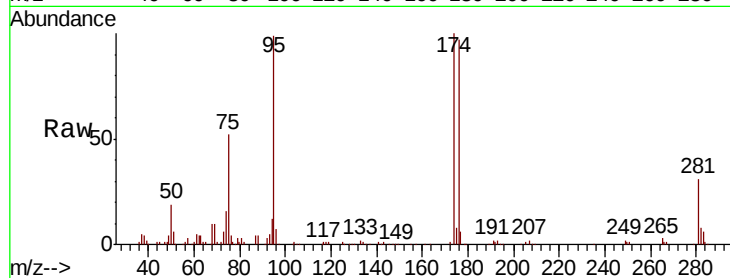




#81  
trans-1,4-Dichloro-2-butene  
Concen: 144.215 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.10 min  
Lab File: VW006640.D  
Acq: 05 Nov 2018 16:58

Instrument :  
MSVOA\_W  
ClientSampled :  
DL-SED-02

Tgt Ion: 75 Resp: 25982  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.2 115.8#  
89 0.0 38.6 58.0#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 1.006 ug/l  
RT: 14.36 min Scan# 2044  
Delta R.T. -0.13 min  
Lab File: VW006640.D  
Acq: 05 Nov 2018 16:58

Tgt Ion: 75 Resp: 98  
Ion Ratio Lower Upper  
75 100  
155 0.0 50.6 151.8#  
157 0.0 65.0 195.0#

