

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW110518\  
 Data File : VW006643.D  
 Acq On : 05 Nov 2018 18:16  
 Operator : SY/AP  
 Sample : J5700-03RE  
 Misc : 4.98G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SI-3

Quant Time: Nov 06 01:58:42 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  | 244251   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 366918   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 337233   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 173066   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 86889    | 41.38 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 82.76% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 91330    | 39.66 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 79.32% |      |
| 50) Toluene-d8              | 10.33  | 98  | 327489   | 37.36 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 74.72% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 109858   | 34.57 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 69.14% |      |

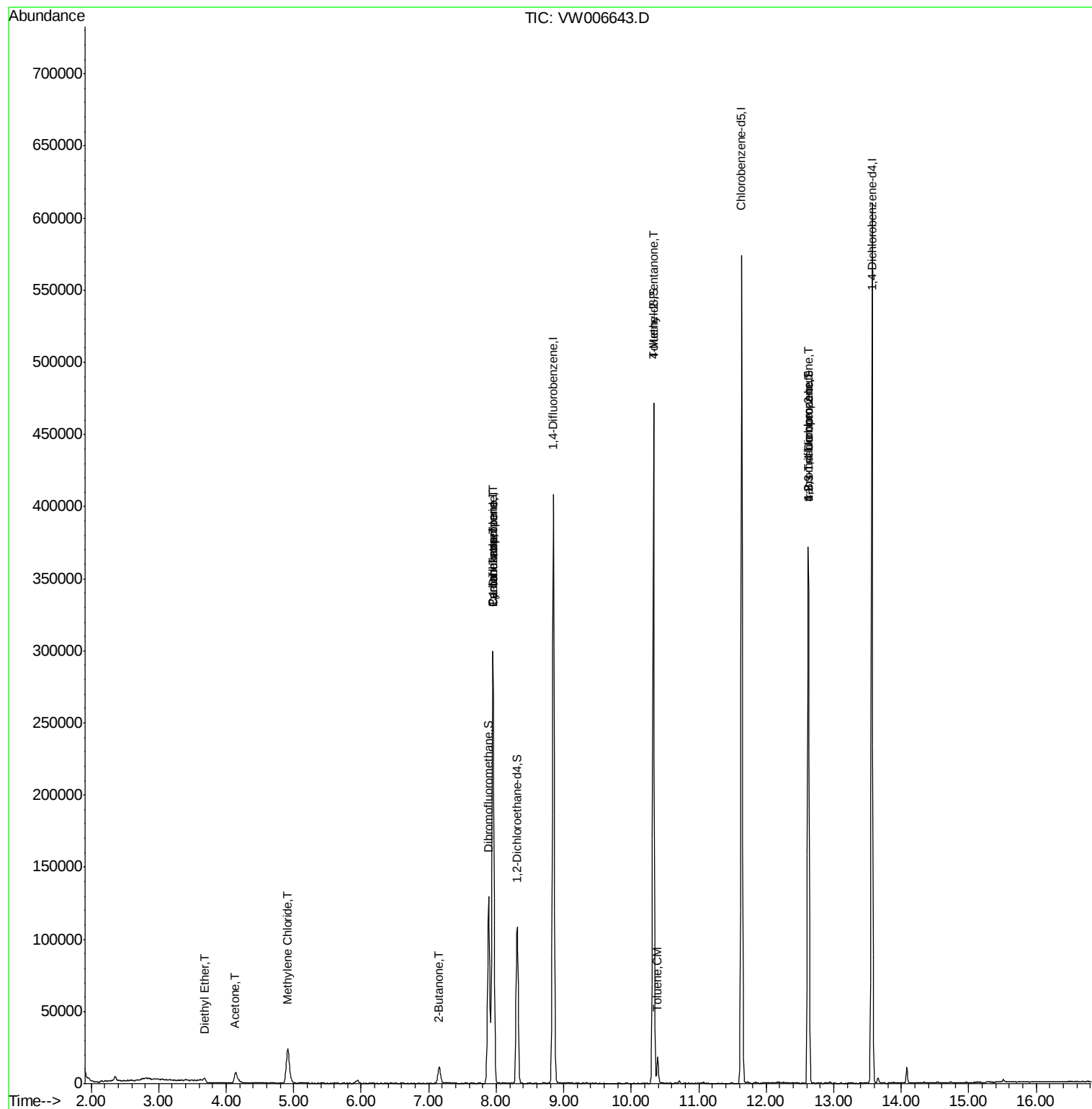
| Target Compounds               |       |     |       |                | Qvalue |
|--------------------------------|-------|-----|-------|----------------|--------|
| 8) Diethyl Ether               | 3.68  | 74  | 1716  | 1.625 ug/l     | 79     |
| 16) Acetone                    | 4.14  | 43  | 15271 | 45.051 ug/l    | 89     |
| 20) Methylene Chloride         | 4.91  | 84  | 20820 | 3.980 ug/l     | 95     |
| 25) 2-Butanone                 | 7.16  | 43  | 616   | 1.274 ug/l #   | 46     |
| 31) Cyclohexane                | 7.95  | 56  | 4132  | 1.236 ug/l #   | 20     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 14937 | 4.629 ug/l #   | 48     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 21067 | 6.248 ug/l #   | 17     |
| 51) 4-Methyl-2-Pentanone       | 10.33 | 43  | 1347  | 1.175 ug/l #   | 1      |
| 52) Toluene                    | 10.39 | 92  | 8093  | 1.317 ug/l     | 100    |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 53907 | 39.922 ug/l #  | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 53907 | 100.546 ug/l # | 11     |

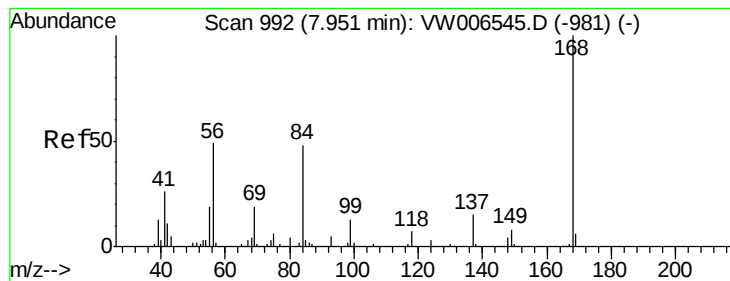
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW006643.D

Acq: 05 Nov 2018 18:16

Instrument :

MSVOA\_W

ClientSampleId :

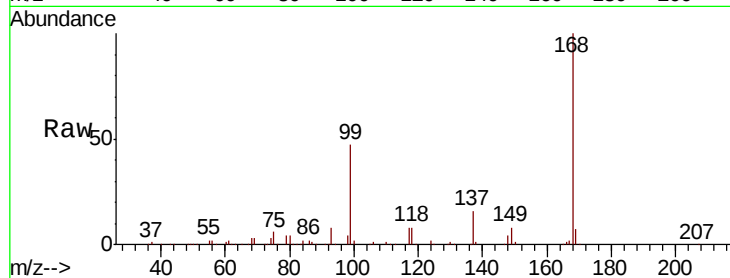
SI-3

Tgt Ion:168 Resp: 244251

Ion Ratio Lower Upper

168 100

99 46.7 37.4 56.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

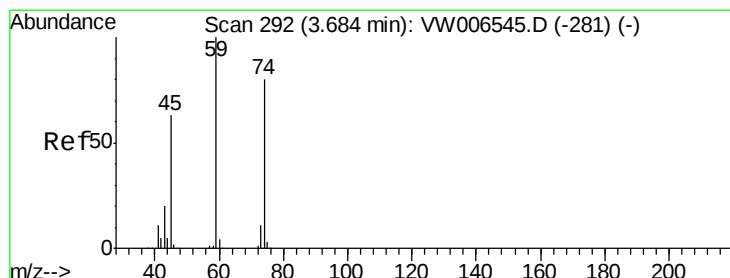
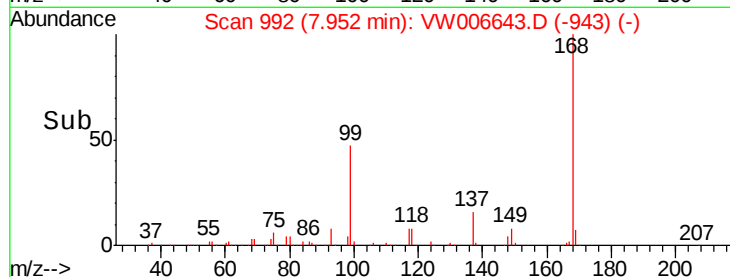
100000

50000

0

Time-->

7.90 8.00 8.10



#8

Diethyl Ether

Concen: 1.625 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.00 min

Lab File: VW006643.D

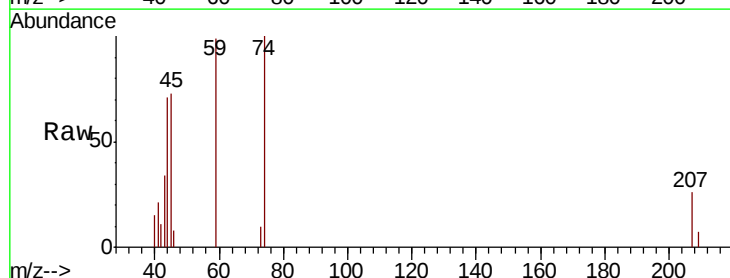
Acq: 05 Nov 2018 18:16

Tgt Ion: 74 Resp: 1716

Ion Ratio Lower Upper

74 100

45 100.8 41.1 123.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

800

600

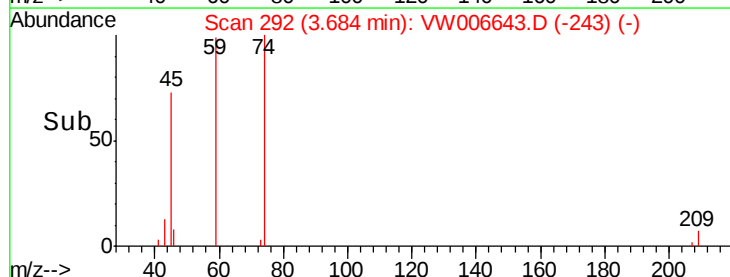
400

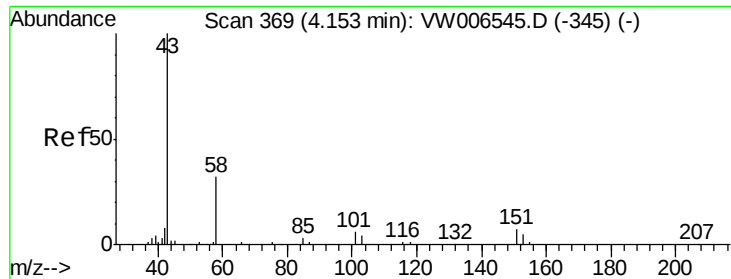
200

0

Time-->

3.60 3.65 3.70 3.75

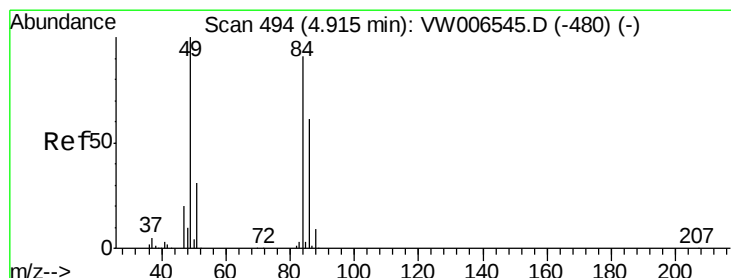
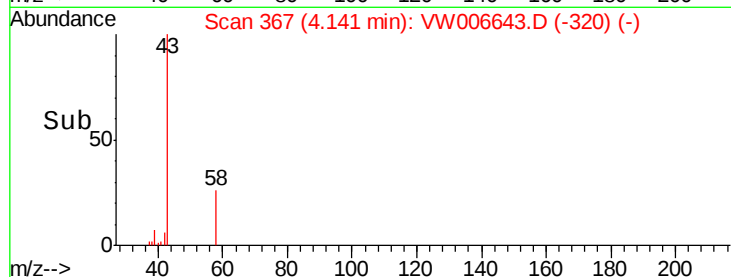
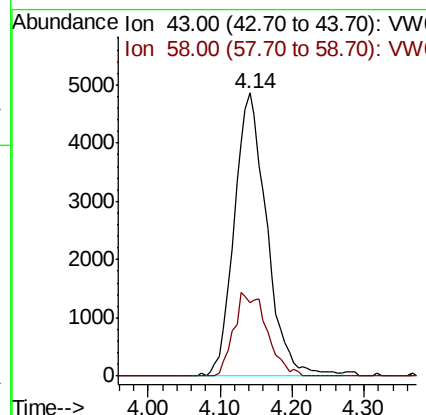
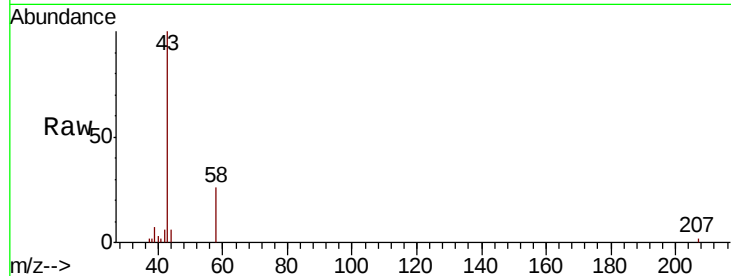




#16  
Acetone  
Concen: 45.051 ug/l  
RT: 4.14 min Scan# 367  
Delta R.T. -0.01 min  
Lab File: VW006643.D  
Acq: 05 Nov 2018 18:16

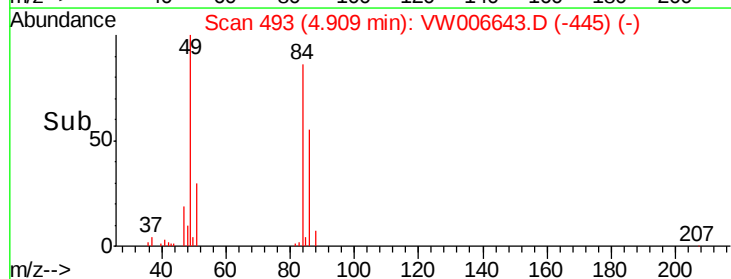
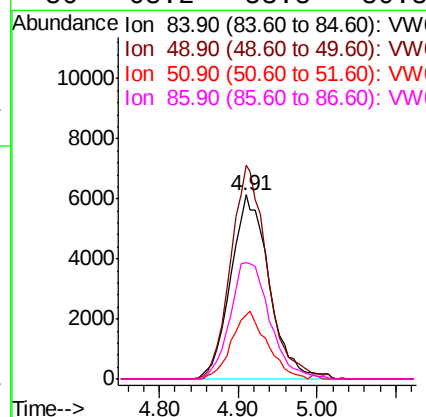
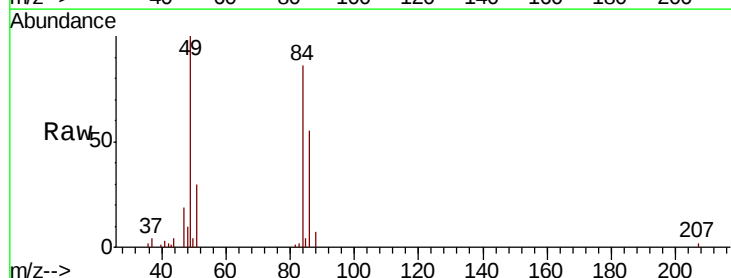
Instrument :  
MSVOA\_W  
ClientSampled :  
SI-3

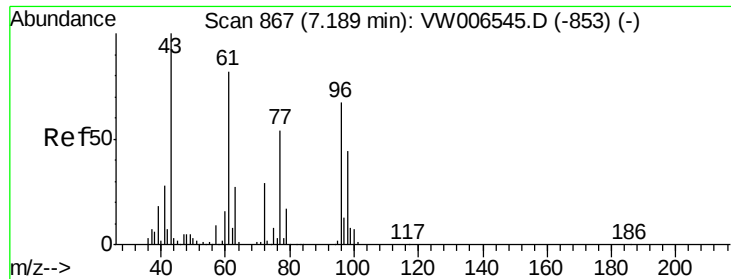
Tgt Ion: 43 Resp: 15271  
Ion Ratio Lower Upper  
43 100  
58 25.9 25.8 38.8



#20  
Methylene Chloride  
Concen: 3.980 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW006643.D  
Acq: 05 Nov 2018 18:16

Tgt Ion: 84 Resp: 20820  
Ion Ratio Lower Upper  
84 100  
49 116.0 88.2 132.4  
51 34.7 27.0 40.6  
86 63.2 53.8 80.8

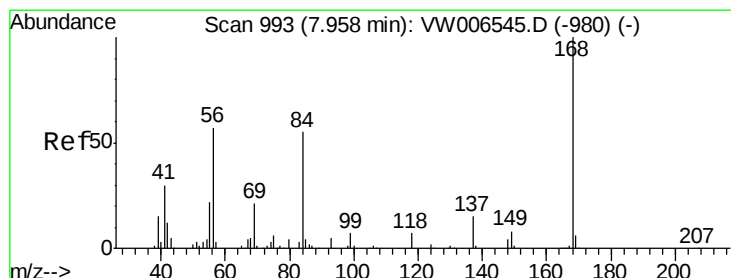
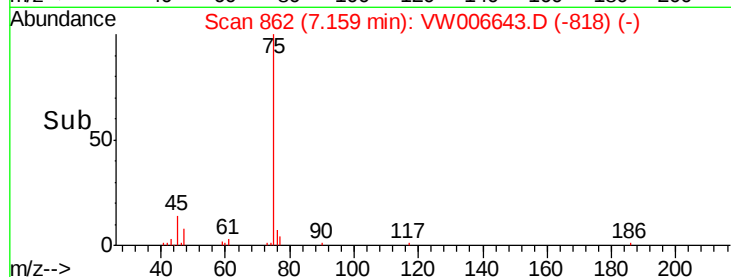
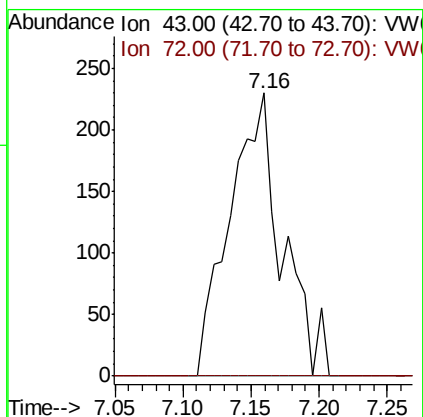
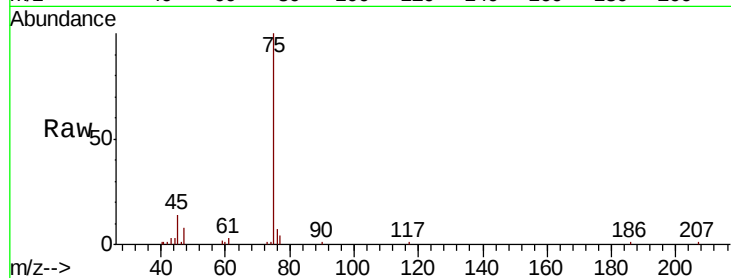




#25  
2-Butanone  
Concen: 1.274 ug/l  
RT: 7.16 min Scan# 862  
Delta R.T. -0.03 min  
Lab File: VW006643.D  
Acq: 05 Nov 2018 18:16

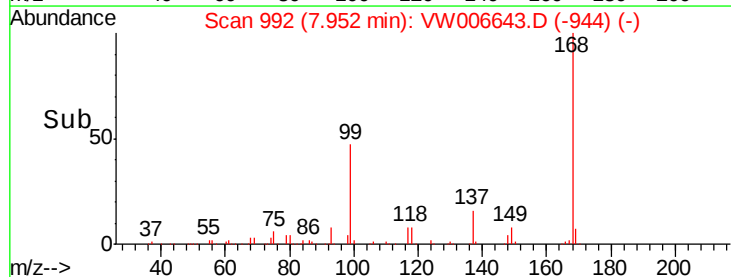
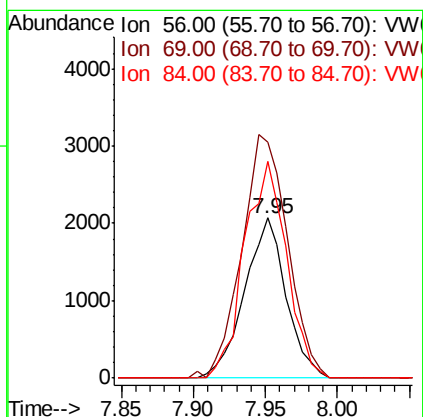
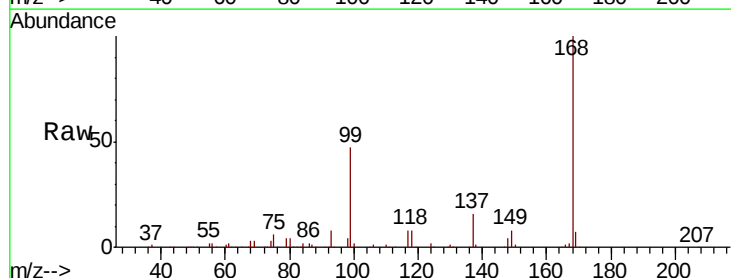
Instrument :  
MSVOA\_W  
ClientSampled :  
SI-3

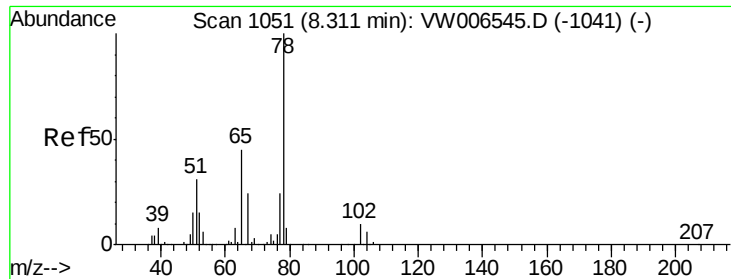
Tgt Ion: 43 Resp: 616  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.2 34.8#



#31  
Cyclohexane  
Concen: 1.236 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW006643.D  
Acq: 05 Nov 2018 18:16

Tgt Ion: 56 Resp: 4132  
Ion Ratio Lower Upper  
56 100  
69 147.6 29.0 43.4#  
84 135.4 77.8 116.6#

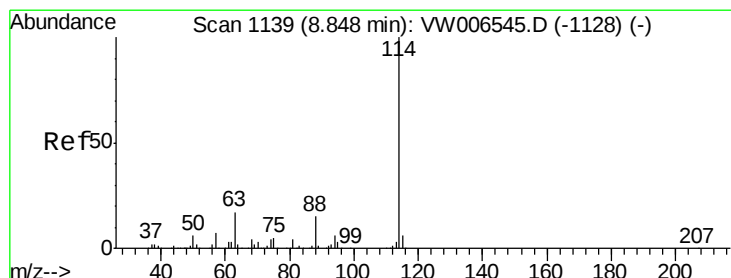
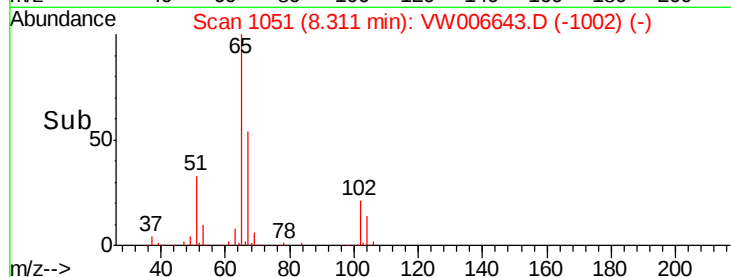
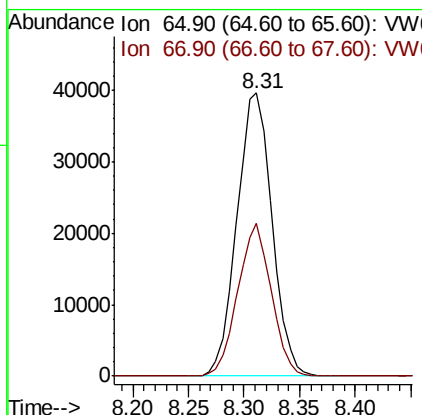
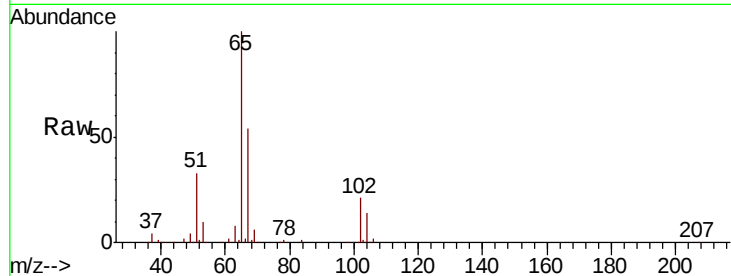




#33  
 1,2-Dichloroethane-d4  
 Concen: 41.384 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. 0.00 min  
 Lab File: VW006643.D  
 Acq: 05 Nov 2018 18:16

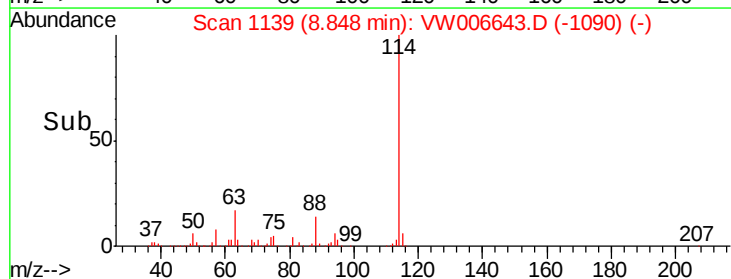
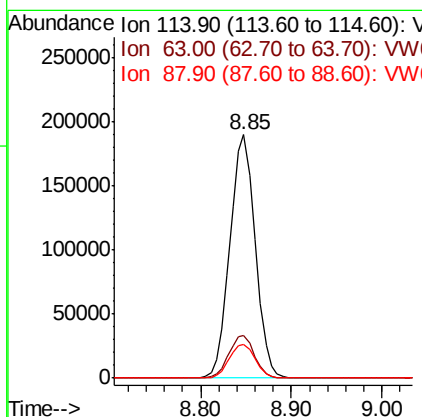
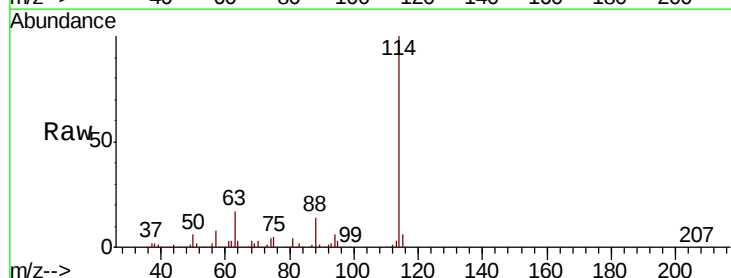
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SI-3

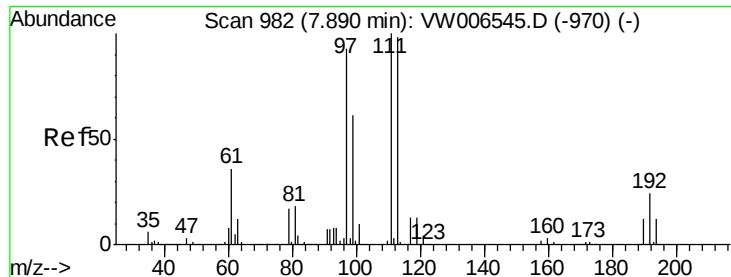
Tgt Ion: 65 Resp: 86889  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW006643.D  
 Acq: 05 Nov 2018 18:16

Tgt Ion: 114 Resp: 366918  
 Ion Ratio Lower Upper  
 114 100  
 63 17.3 0.0 34.4  
 88 14.0 0.0 29.0

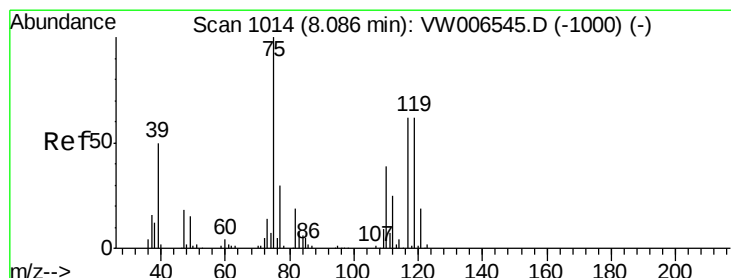
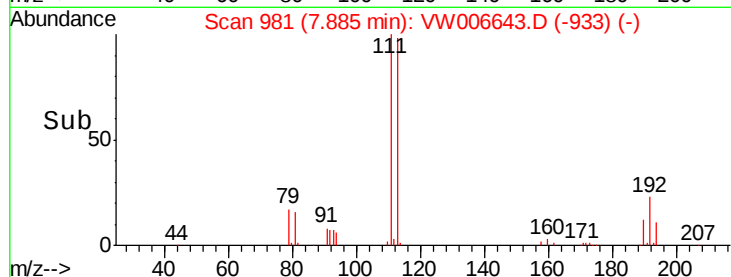
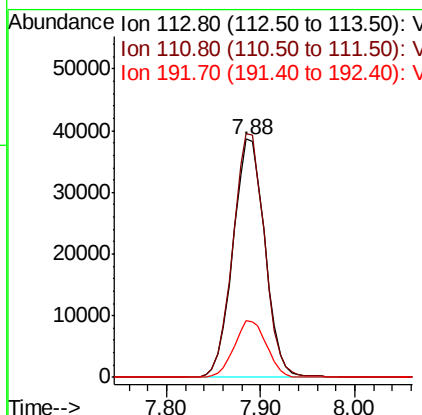
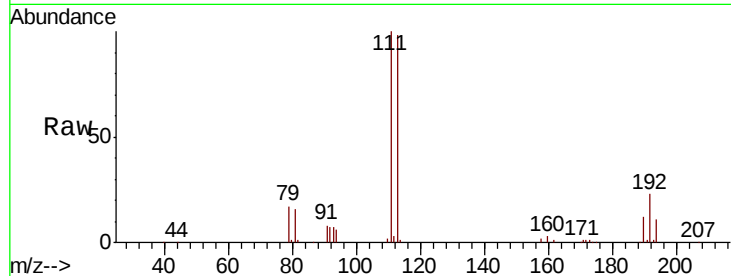




#35  
 Dibromofluoromethane  
 Concen: 39.662 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.01 min  
 Lab File: VW006643.D  
 Acq: 05 Nov 2018 18:16

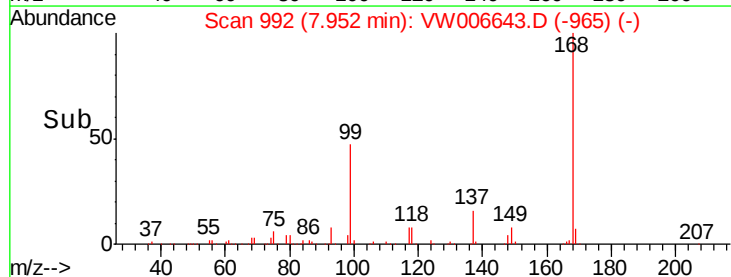
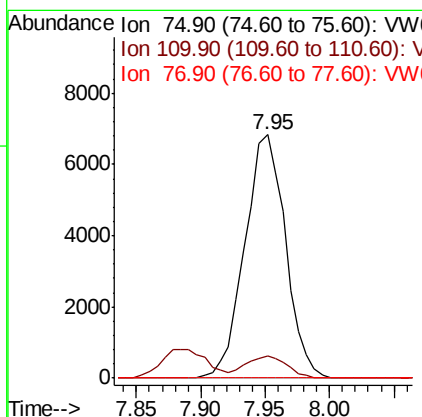
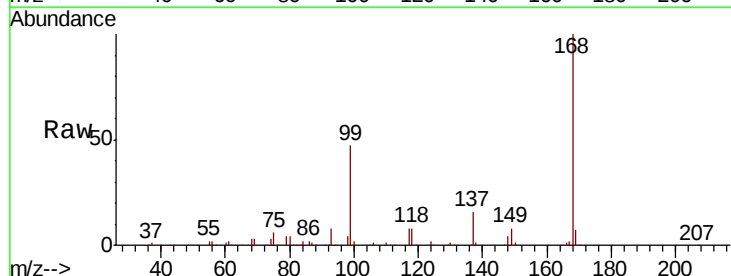
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 SI-3

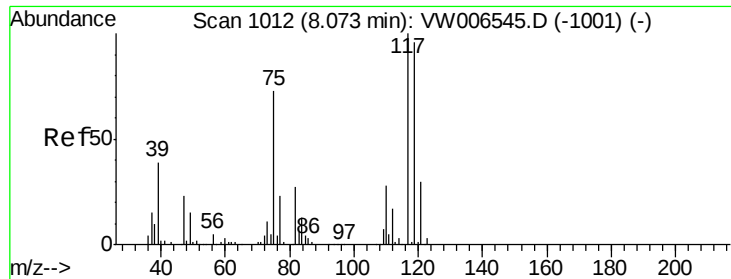
Tgt Ion:113 Resp: 91330  
 Ion Ratio Lower Upper  
 113 100  
 111 101.5 82.2 123.2  
 192 23.9 19.0 28.6



#36  
 1,1-Dichloropropene  
 Concen: 4.629 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW006643.D  
 Acq: 05 Nov 2018 18:16

Tgt Ion: 75 Resp: 14937  
 Ion Ratio Lower Upper  
 75 100  
 110 9.3 19.5 58.5#  
 77 0.0 24.6 37.0#

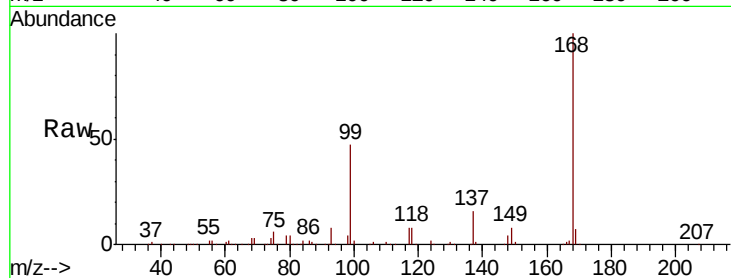




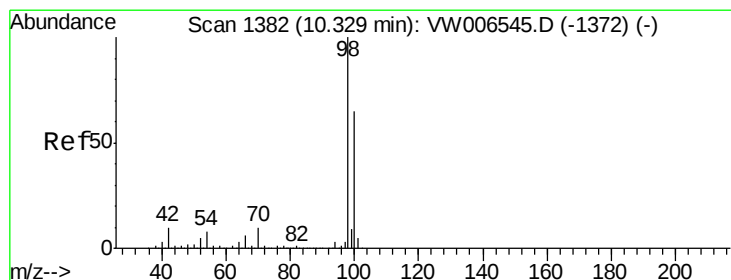
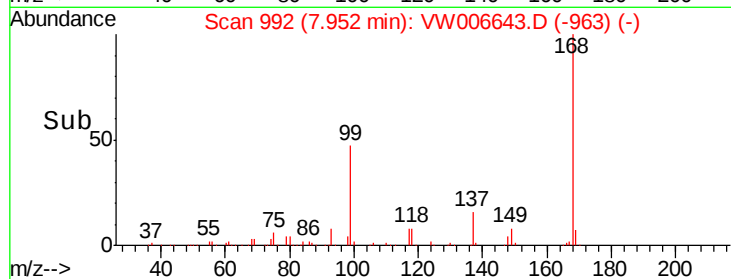
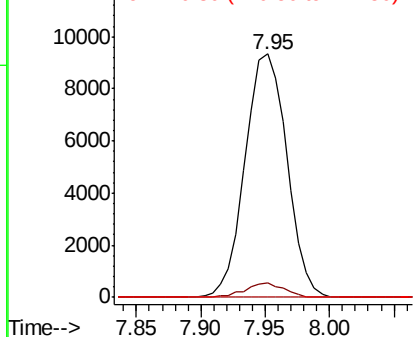
#38  
Carbon Tetrachloride  
Concen: 6.248 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW006643.D  
Acq: 05 Nov 2018 18:16

Instrument :  
MSVOA\_W  
ClientSampleId :  
SI-3

Tgt Ion:117 Resp: 21067  
Ion Ratio Lower Upper  
117 100  
119 5.9 76.3 114.5#  
121 0.0 24.1 36.1#

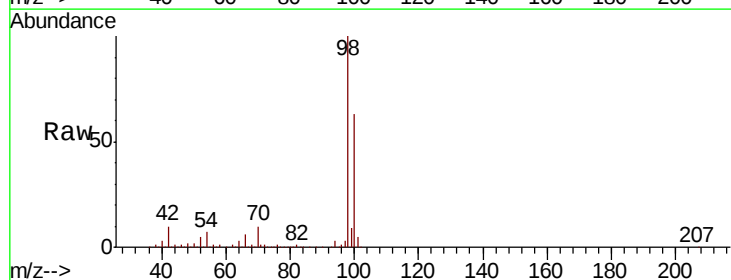


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

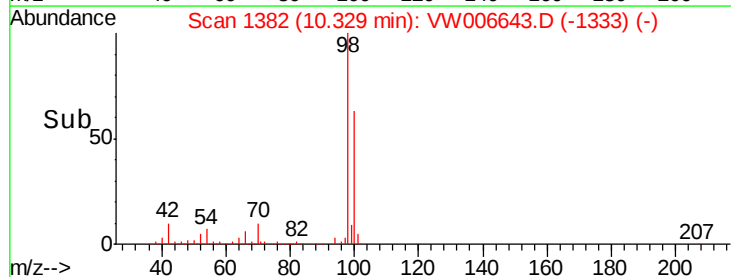
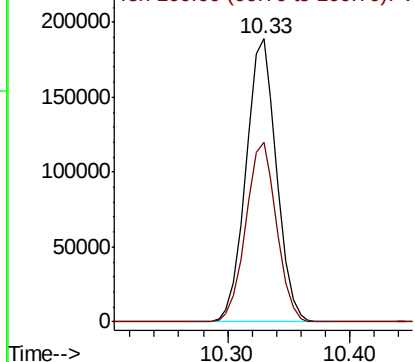


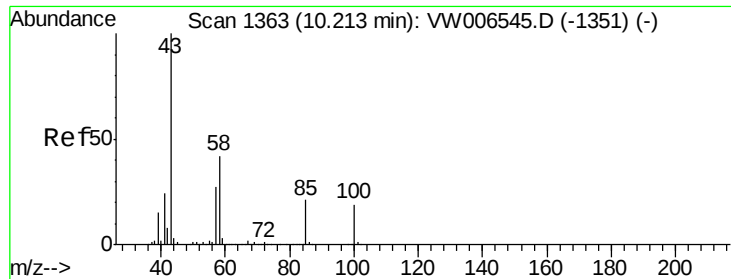
#50  
Toluene-d8  
Concen: 37.359 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. 0.00 min  
Lab File: VW006643.D  
Acq: 05 Nov 2018 18:16

Tgt Ion: 98 Resp: 327489  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): VW

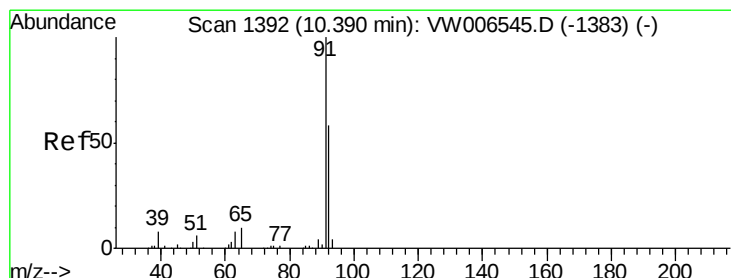
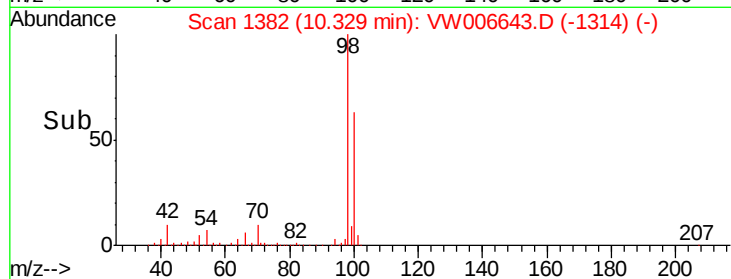
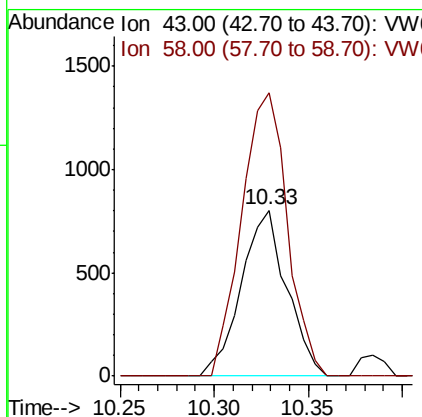
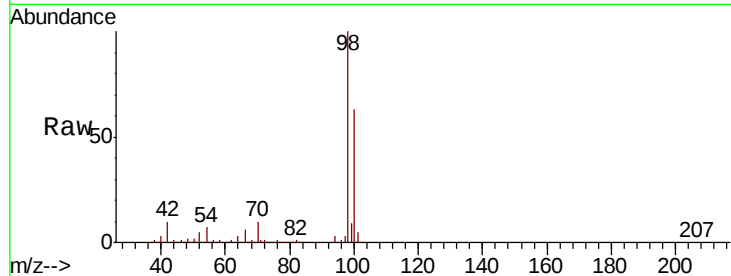




#51  
 4-Methyl-2-Pentanone  
 Concen: 1.175 ug/l  
 RT: 10.33 min Scan# 1382  
 Delta R.T. 0.12 min  
 Lab File: VW006643.D  
 Acq: 05 Nov 2018 18:16

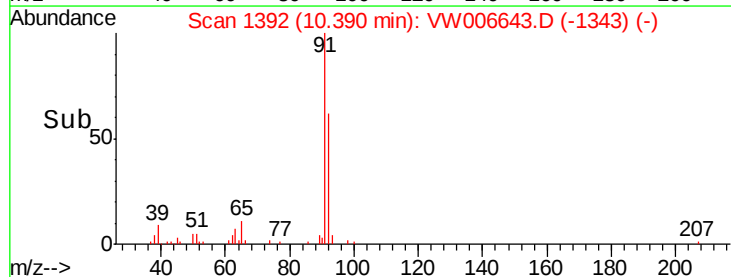
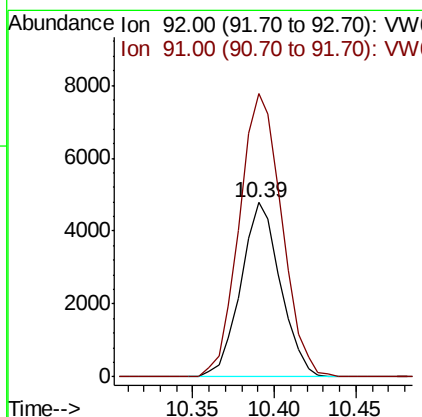
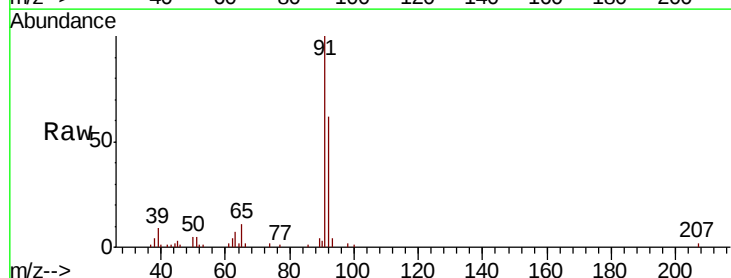
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 SI-3

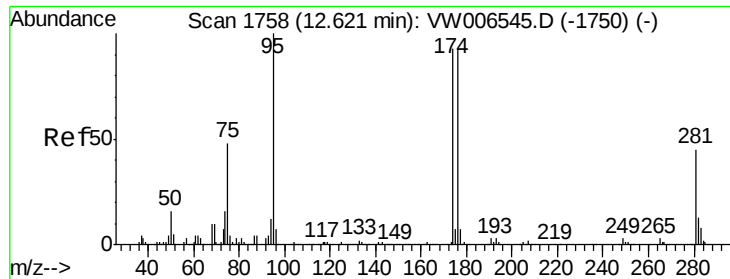
Tgt Ion: 43 Resp: 1347  
 Ion Ratio Lower Upper  
 43 100  
 58 171.1 33.4 50.0#



#52  
 Toluene  
 Concen: 1.317 ug/l  
 RT: 10.39 min Scan# 1392  
 Delta R.T. 0.00 min  
 Lab File: VW006643.D  
 Acq: 05 Nov 2018 18:16

Tgt Ion: 92 Resp: 8093  
 Ion Ratio Lower Upper  
 92 100  
 91 173.7 138.6 208.0





#62

4-Bromofluorobenzene

Concen: 34.568 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW006643.D

Acq: 05 Nov 2018 18:16

Instrument :

MSVOA\_W

ClientSampleId :

SI-3

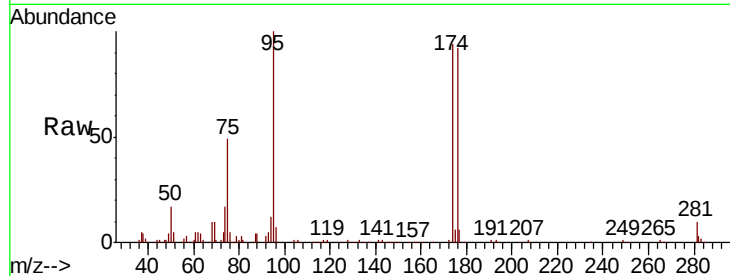
Tgt Ion: 95 Resp: 109858

Ion Ratio Lower Upper

95 100

174 99.1 0.0 192.4

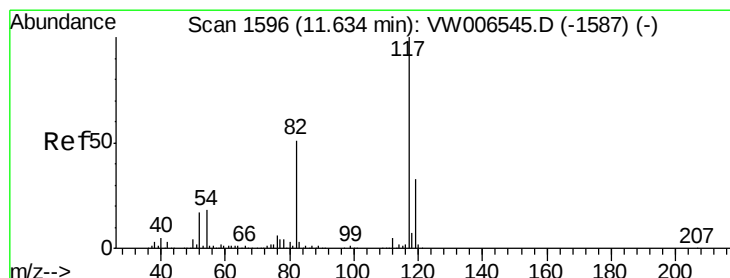
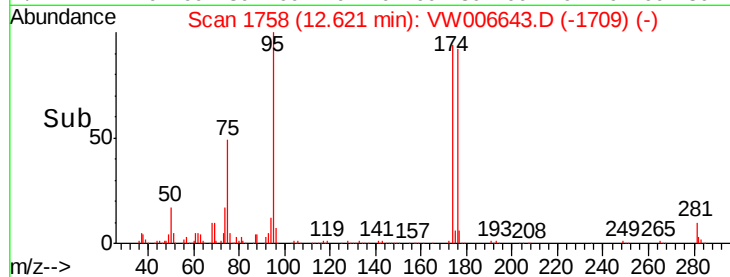
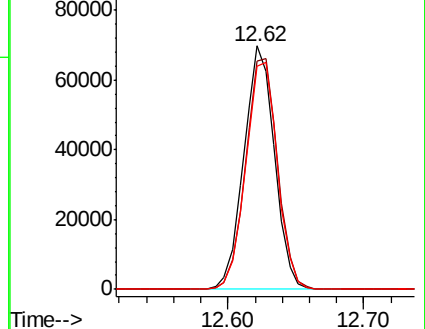
176 96.5 0.0 187.4



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: VW006643.D

Acq: 05 Nov 2018 18:16

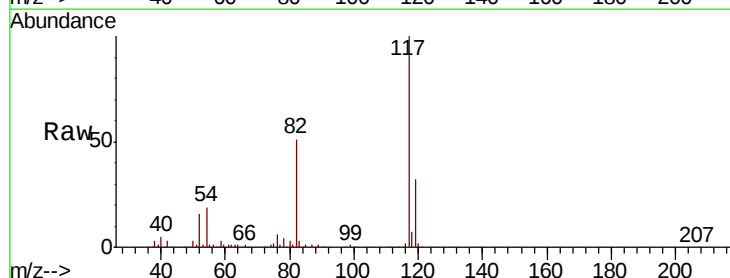
Tgt Ion: 117 Resp: 337233

Ion Ratio Lower Upper

117 100

82 51.0 40.8 61.2

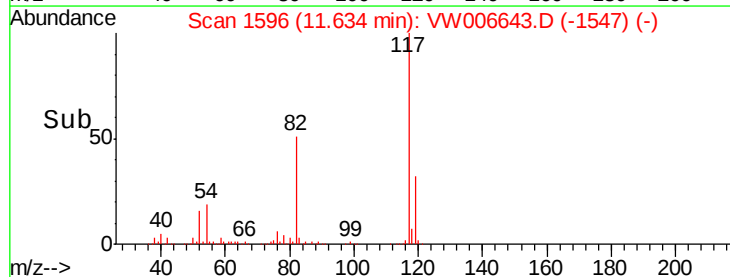
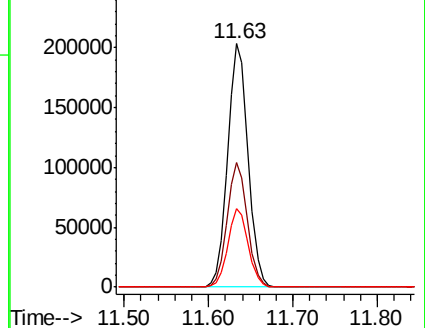
119 32.0 26.1 39.1

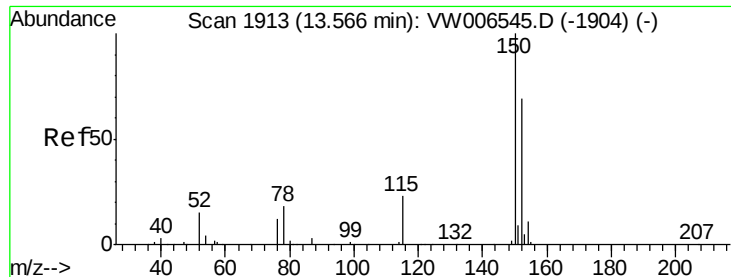


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW006643.D

Acq: 05 Nov 2018 18:16

Instrument :

MSVOA\_W

ClientSampleId :

SI-3

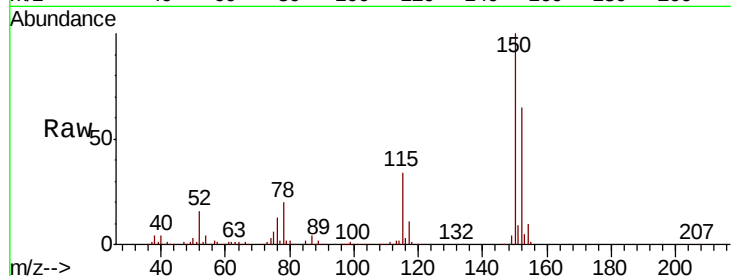
Tgt Ion:152 Resp: 173066

Ion Ratio Lower Upper

152 100

115 53.9 26.6 79.8

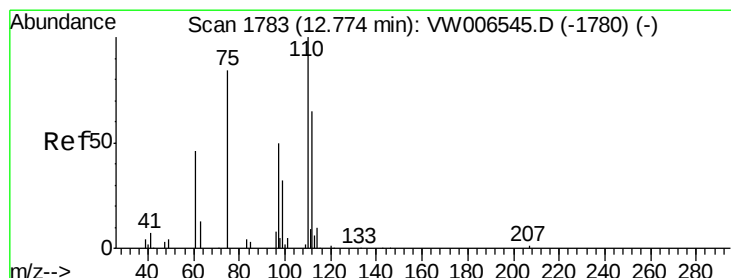
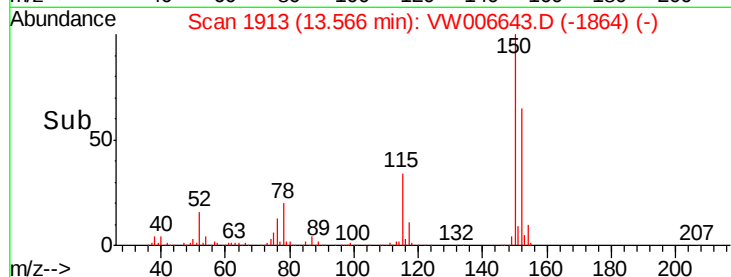
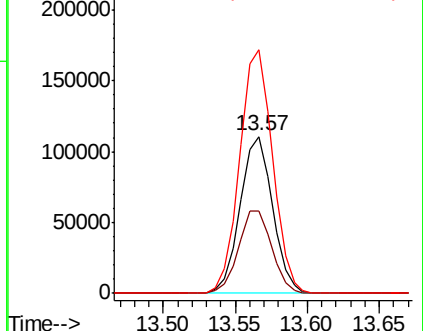
150 157.7 0.0 344.6



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: 39.922 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006643.D

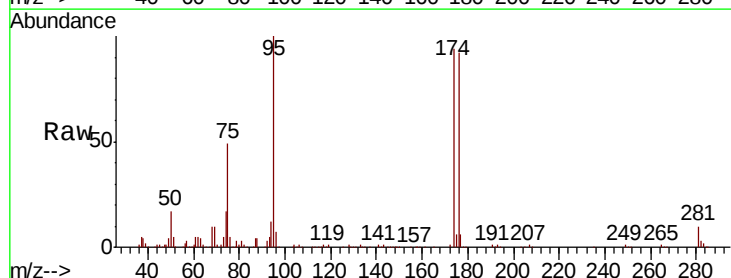
Acq: 05 Nov 2018 18:16

Tgt Ion: 75 Resp: 53907

Ion Ratio Lower Upper

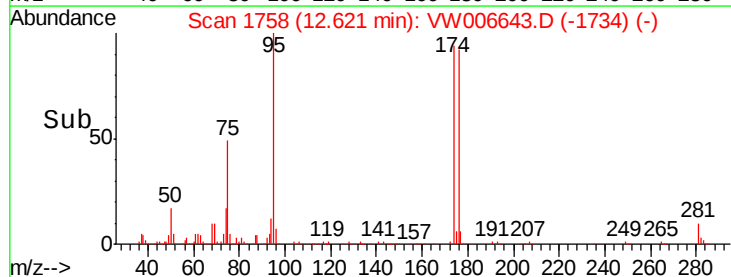
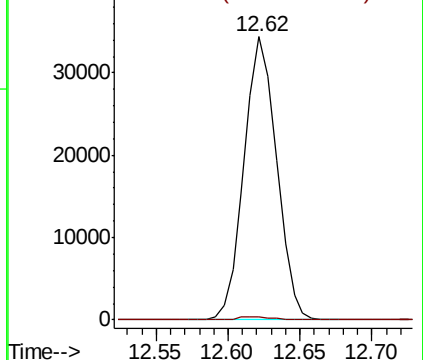
75 100

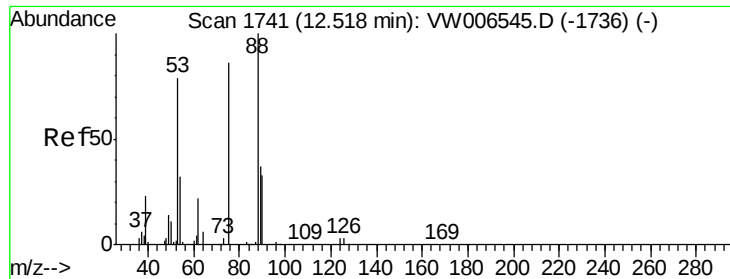
77 1.2 0.0 0.0#



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: 100.546 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006643.D

Acq: 05 Nov 2018 18:16

Instrument :

MSVOA\_W

ClientSampleId :

SI-3

Tgt Ion: 75 Resp: 53907

Ion Ratio Lower Upper

75 100

53 0.0 77.2 115.8#

89 0.0 38.6 58.0#

