

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW122418\  
 Data File : VW007867.D  
 Acq On : 23 Dec 2018 01:49  
 Operator : SY/AP  
 Sample : J6511-09  
 Misc : 5.92G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-65(0-5)-GRAB

Quant Time: Dec 23 23:58:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 06:30:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 74261    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 131491   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 116051   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 51824    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 43228    | 53.11  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 106.22% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 37230    | 46.41  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 92.82%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 143654   | 47.50  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 95.00%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 53166    | 45.51  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 91.02%  |          |

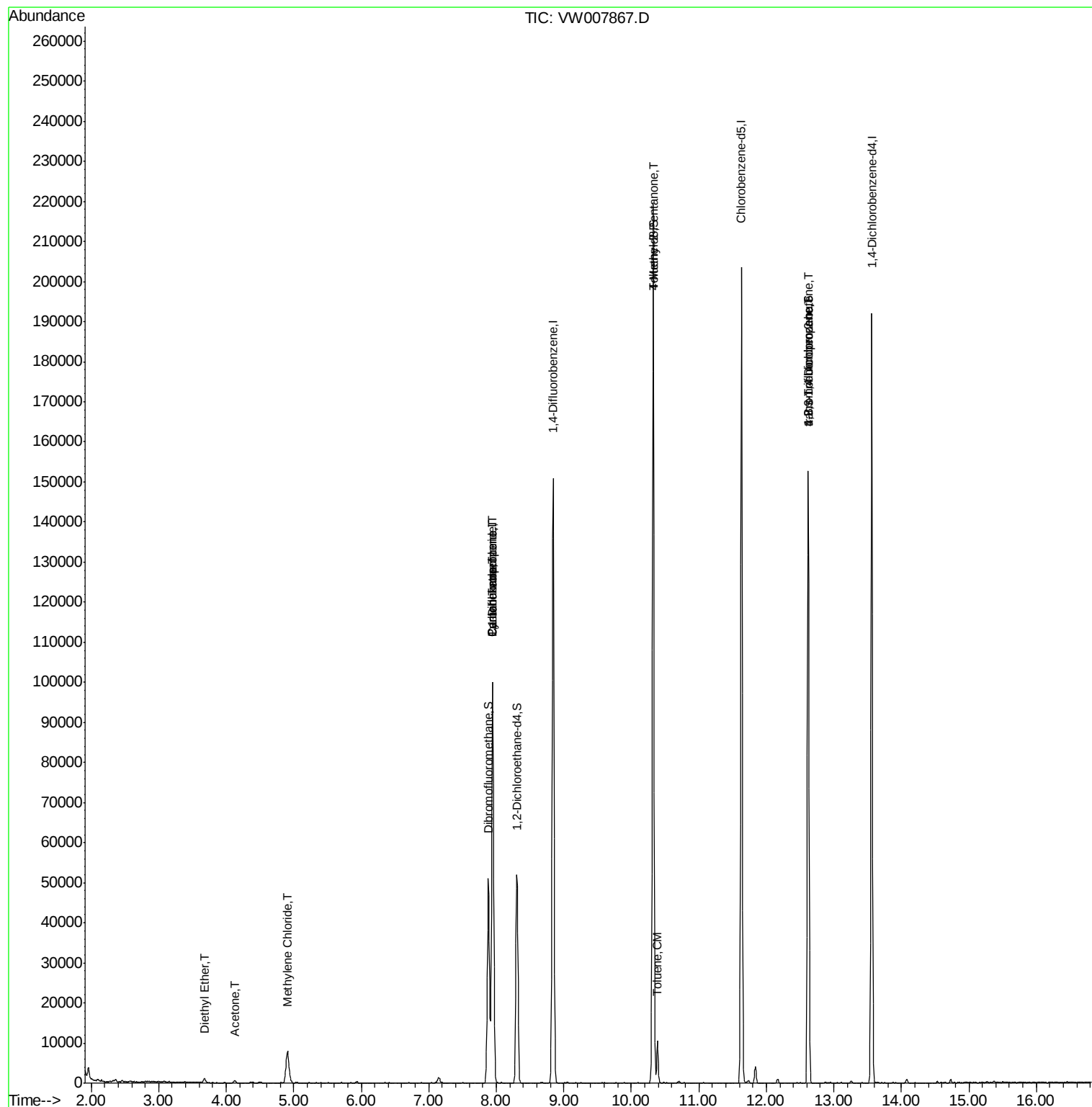
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.67  | 74   | 649      | 1.972   | ug/l   | 96     |
| 16) Acetone                    | 4.12  | 43   | 980      | 6.430   | ug/l   | 93     |
| 20) Methylene Chloride         | 4.91  | 84   | 6807     | 3.003   | ug/l   | 92     |
| 31) Cyclohexane                | 7.95  | 56   | 1413     | 1.166   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 5552     | 4.375   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 7814     | 5.228   | ug/l # | 14     |
| 51) 4-Methyl-2-Pentanone       | 10.32 | 43   | 672      | 1.620   | ug/l # | 1      |
| 52) Toluene                    | 10.38 | 92   | 4574     | 2.013   | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 26042    | 65.015  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 26042    | 136.472 | ug/l # | 9      |

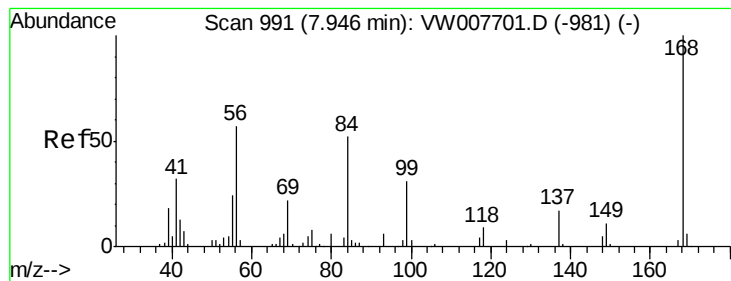
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW122418\  
Data File : VW007867.D  
Acq On : 23 Dec 2018 01:49  
Operator : SY/AP  
Sample : J6511-09  
Misc : 5.92G/5ML/MSVOA\_W/SOIL  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-65(0-5)-GRAB

Quant Time: Dec 23 23:58:45 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 20 06:30:23 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW007867.D

Acq: 23 Dec 2018 01:49

Instrument :

MSVOA\_W

ClientSampleId :

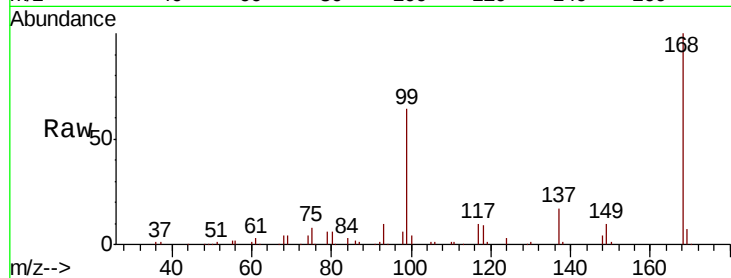
SB-65(0-5)-GRAB

Tgt Ion:168 Resp: 74261

Ion Ratio Lower Upper

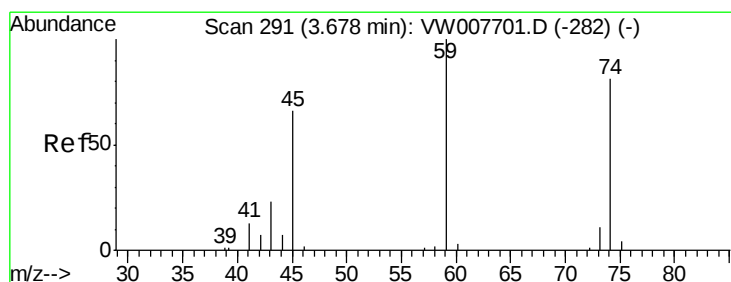
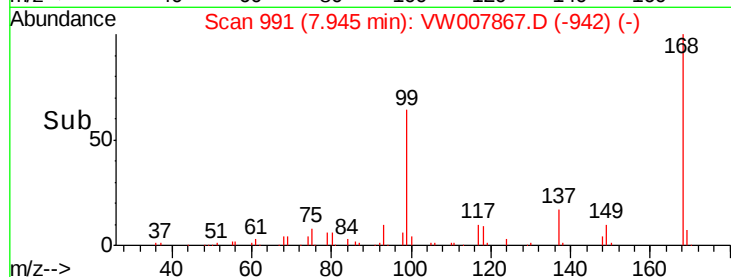
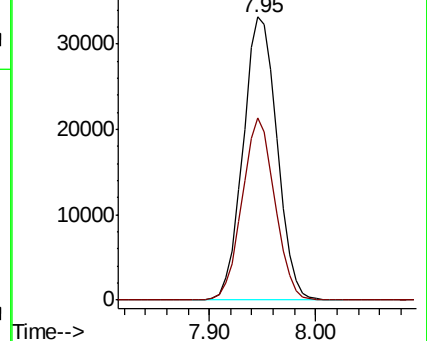
168 100

99 64.2 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.972 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW007867.D

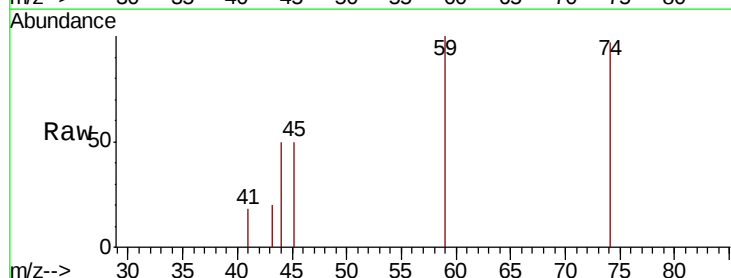
Acq: 23 Dec 2018 01:49

Tgt Ion: 74 Resp: 649

Ion Ratio Lower Upper

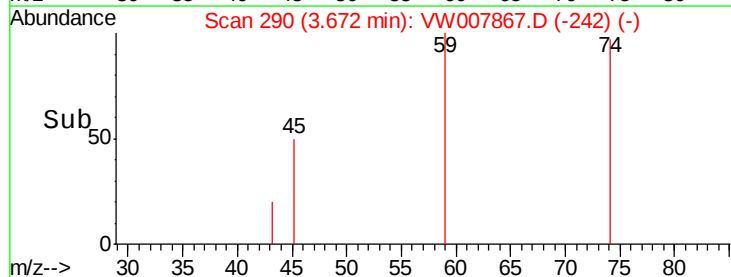
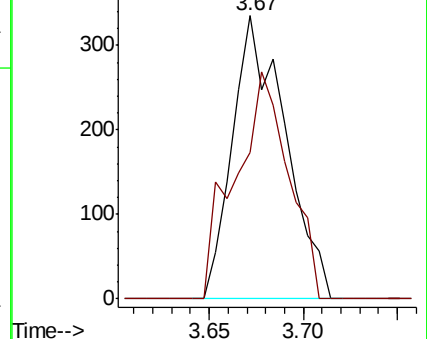
74 100

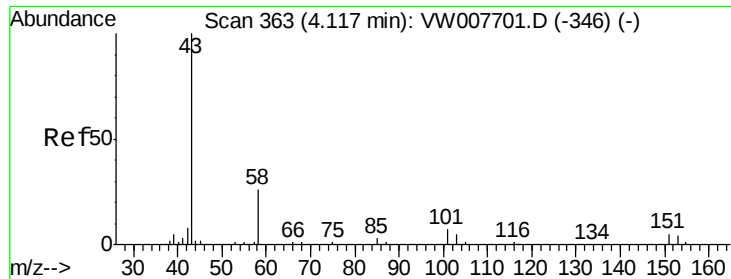
45 82.0 39.4 118.1



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#16

Acetone

Concen: 6.430 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007867.D

Acq: 23 Dec 2018 01:49

Instrument :

MSVOA\_W

ClientSampleId :

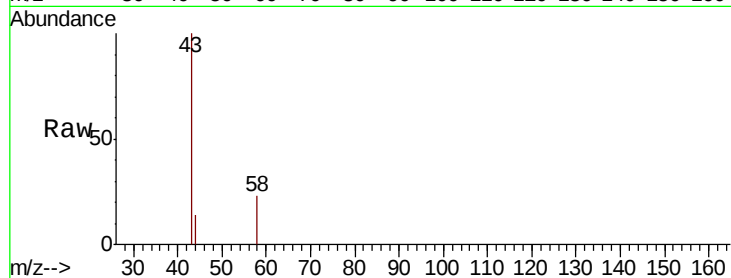
SB-65(0-5)-GRAB

Tgt Ion: 43 Resp: 980

Ion Ratio Lower Upper

43 100

58 23.0 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

400

300

200

100

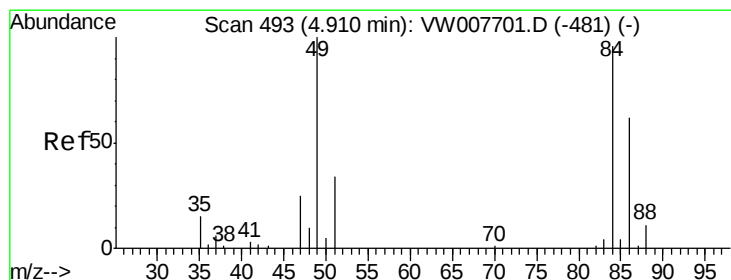
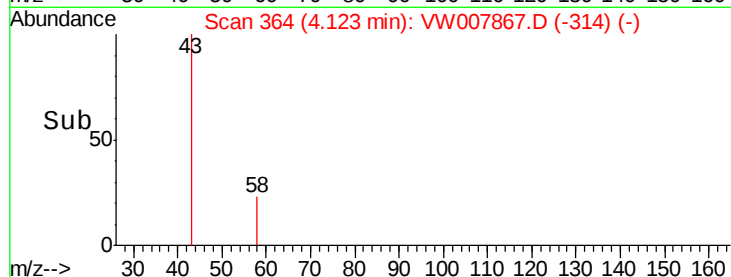
0

Time-->

4.05

4.10

4.15



#20

Methylene Chloride

Concen: 3.003 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW007867.D

Acq: 23 Dec 2018 01:49

Tgt Ion: 84 Resp: 6807

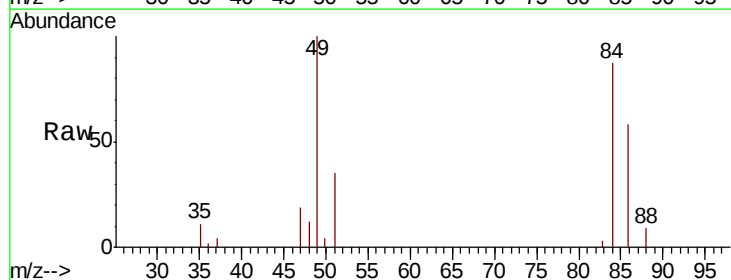
Ion Ratio Lower Upper

84 100

49 115.5 83.7 125.5

51 40.7 28.2 42.2

86 67.2 52.2 78.2



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

3000

2000

1000

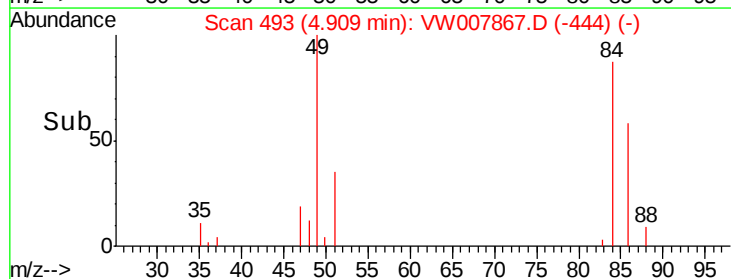
0

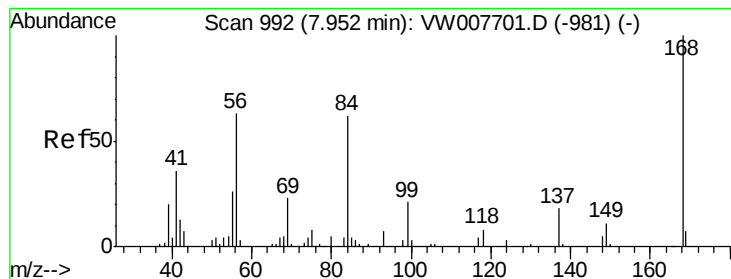
Time-->

4.80

4.90

5.00





#31

Cyclohexane

Concen: 1.166 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007867.D

Acq: 23 Dec 2018 01:49

Instrument :

MSVOA\_W

ClientSampleId :

SB-65(0-5)-GRAB

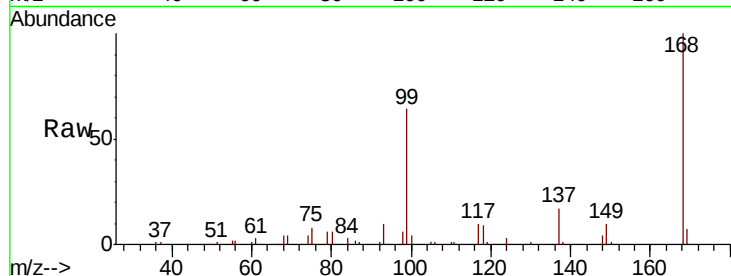
Tgt Ion: 56 Resp: 1413

Ion Ratio Lower Upper

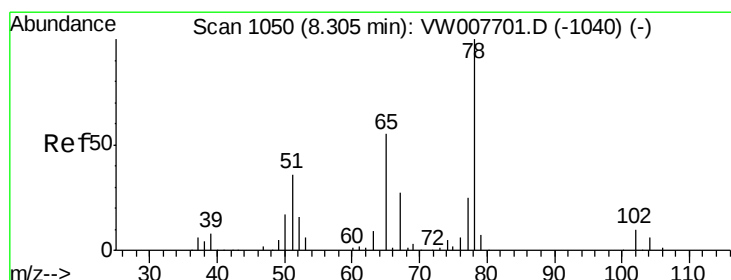
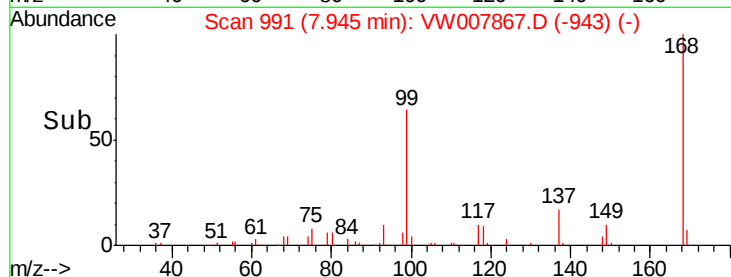
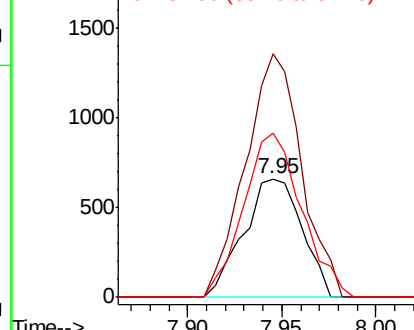
56 100

69 206.1 29.7 44.5#

84 138.9 78.9 118.3#



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 53.110 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW007867.D

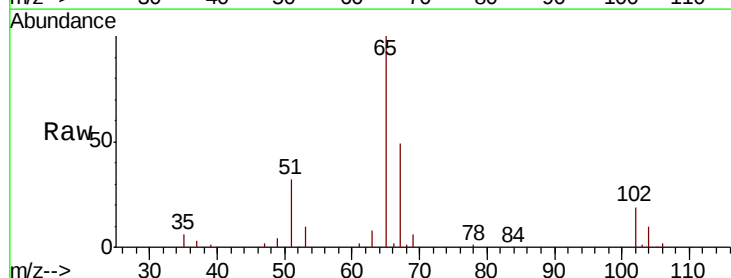
Acq: 23 Dec 2018 01:49

Tgt Ion: 65 Resp: 43228

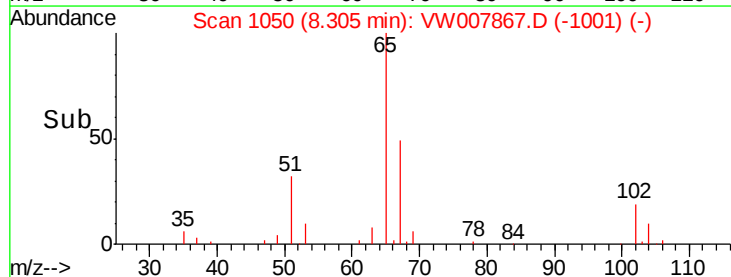
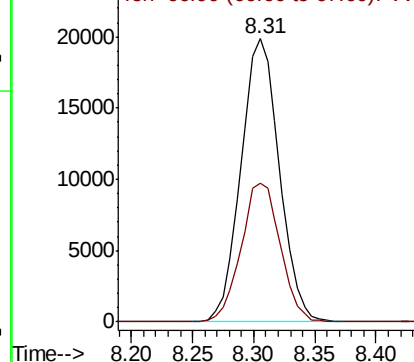
Ion Ratio Lower Upper

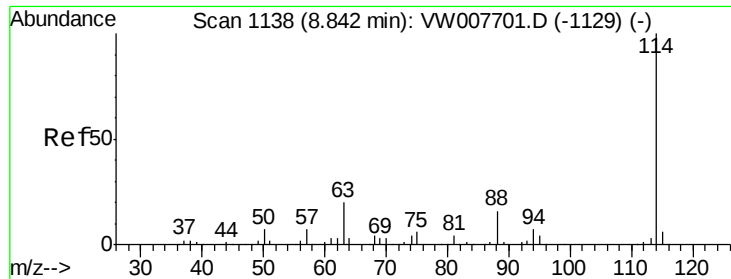
65 100

67 50.1 0.0 100.6



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW

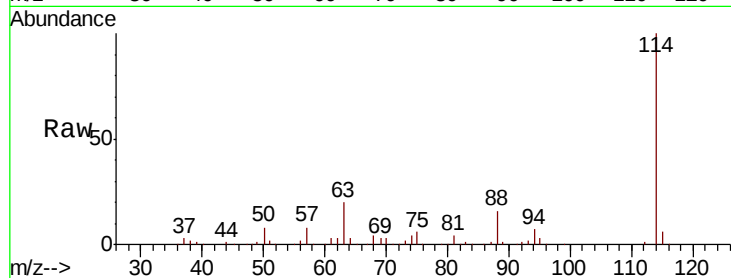




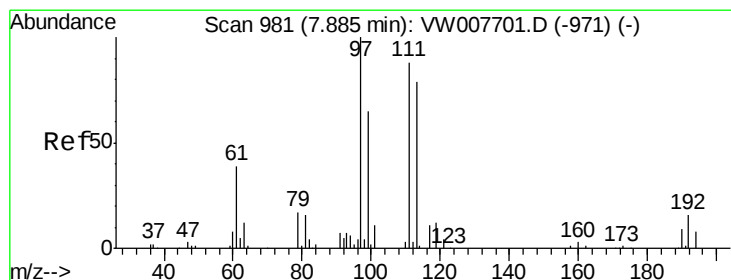
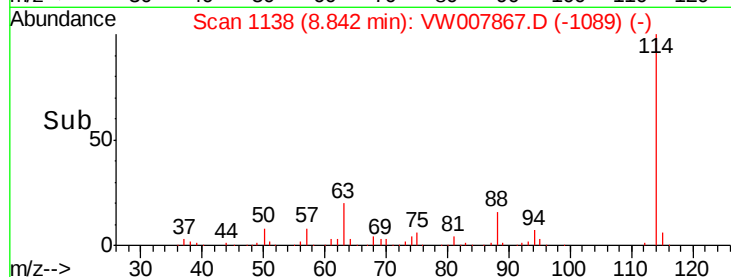
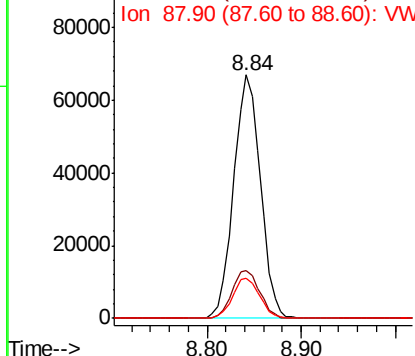
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.84 min Scan# 1138  
Delta R.T. -0.00 min  
Lab File: VW007867.D  
Acq: 23 Dec 2018 01:49

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-65(0-5)-GRAB

Tgt Ion:114 Resp: 131491  
Ion Ratio Lower Upper  
114 100  
63 19.5 0.0 40.0  
88 16.3 0.0 32.6

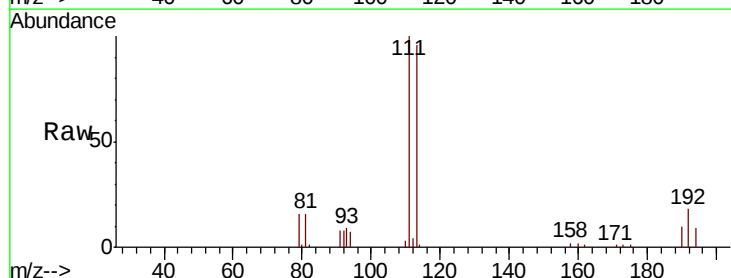


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VW  
Ion 87.90 (87.60 to 88.60): VW

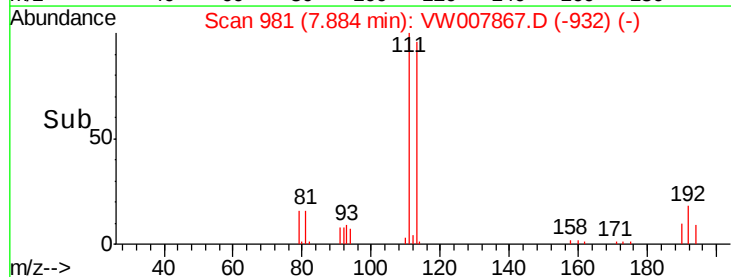
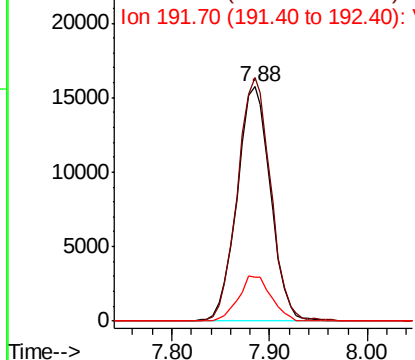


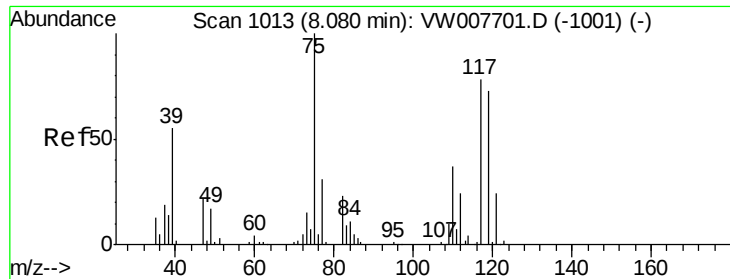
#35  
Dibromofluoromethane  
Concen: 46.412 ug/l  
RT: 7.88 min Scan# 981  
Delta R.T. -0.00 min  
Lab File: VW007867.D  
Acq: 23 Dec 2018 01:49

Tgt Ion:113 Resp: 37230  
Ion Ratio Lower Upper  
113 100  
111 103.2 82.6 124.0  
192 18.9 15.5 23.3



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: 4.375 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW007867.D

Acq: 23 Dec 2018 01:49

Instrument :

MSVOA\_W

ClientSampleId :

SB-65(0-5)-GRAB

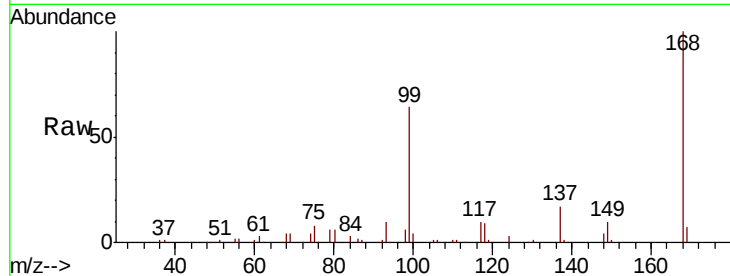
Tgt Ion: 75 Resp: 5552

Ion Ratio Lower Upper

75 100

110 9.3 18.6 55.8#

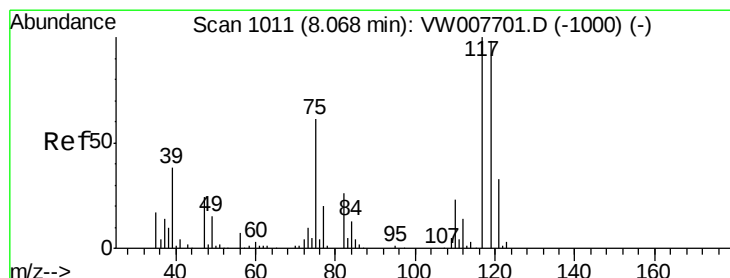
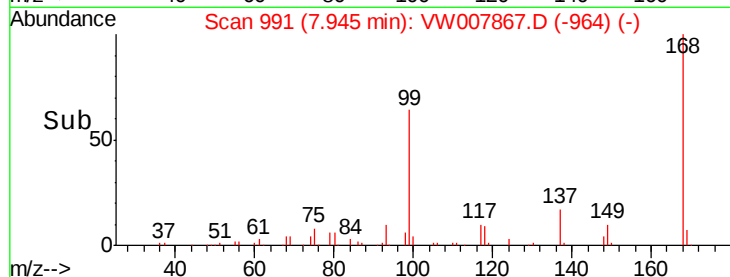
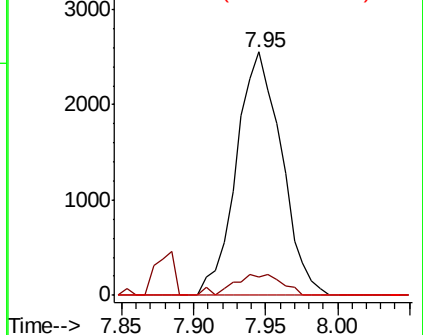
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 5.228 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW007867.D

Acq: 23 Dec 2018 01:49

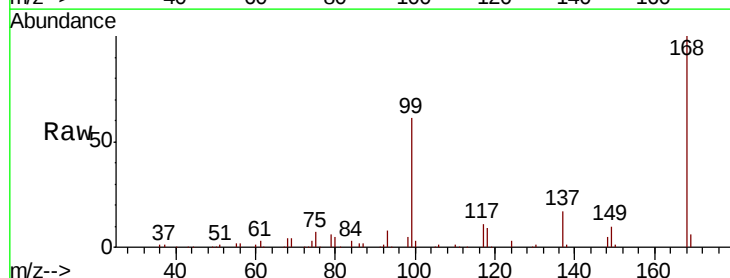
Tgt Ion: 117 Resp: 7814

Ion Ratio Lower Upper

117 100

119 3.1 78.2 117.2#

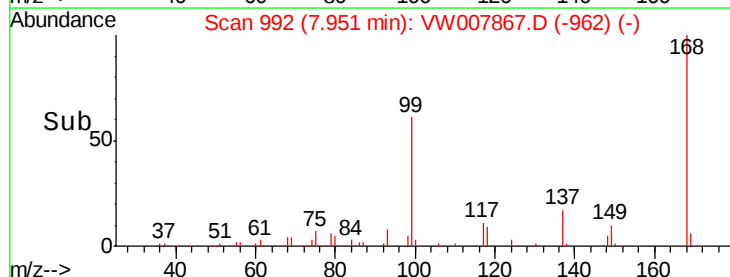
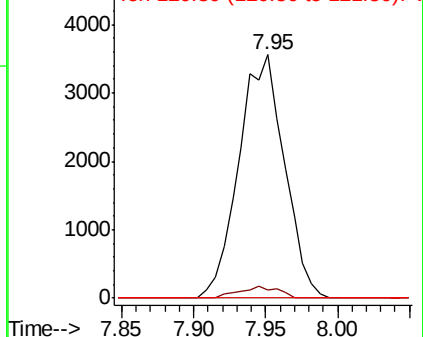
121 0.0 26.1 39.1#

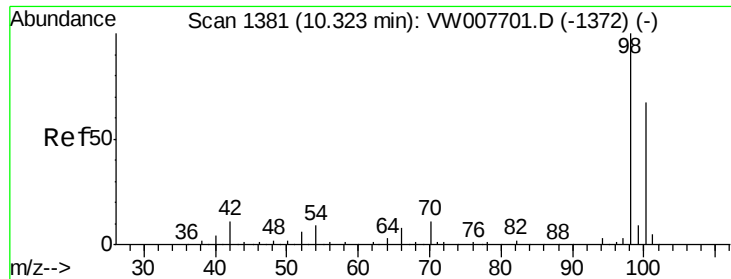


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

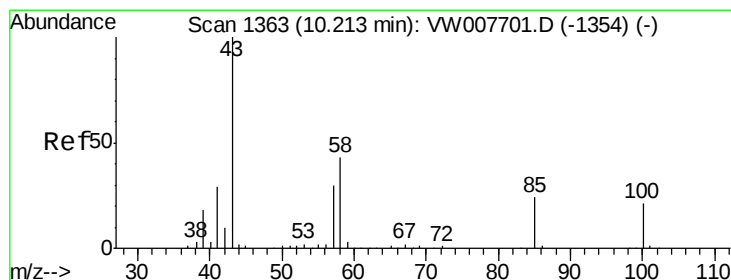
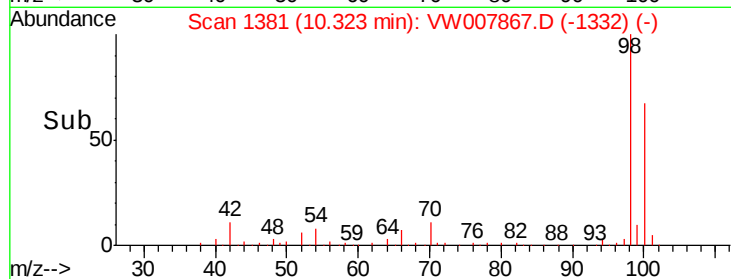
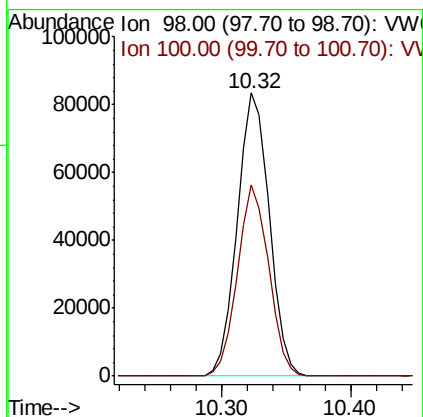
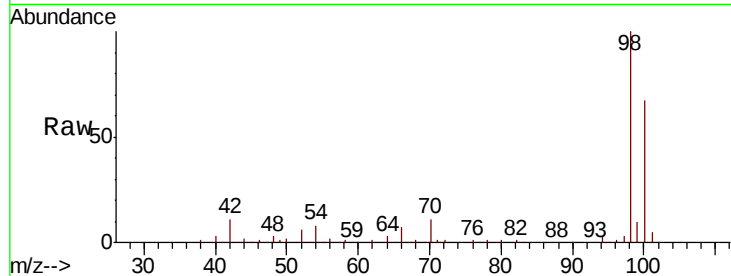




#50  
Toluene-d8  
Concen: 47.504 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW007867.D  
Acq: 23 Dec 2018 01:49

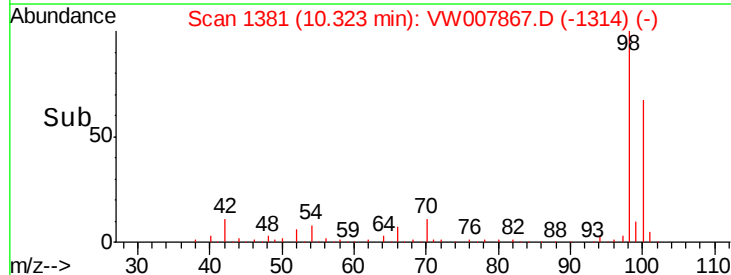
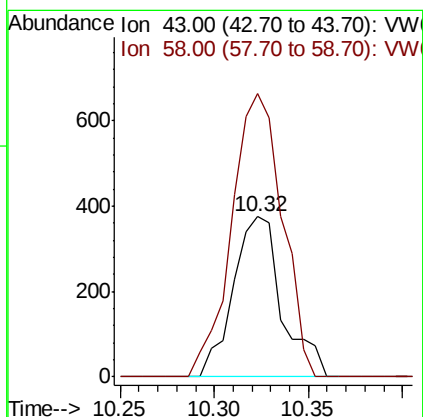
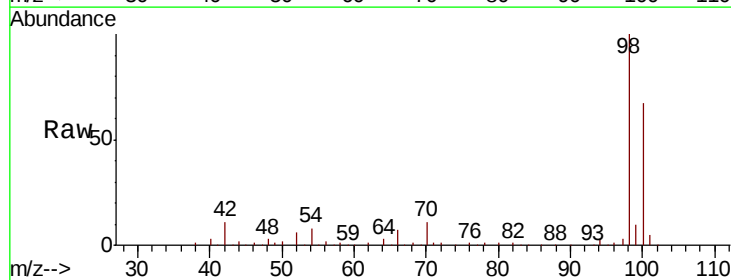
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-65(0-5)-GRAB

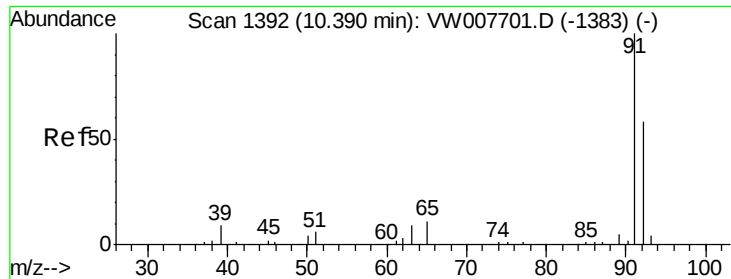
Tgt Ion: 98 Resp: 143654  
Ion Ratio Lower Upper  
98 100  
100 66.2 52.2 78.2



#51  
4-Methyl-2-Pentanone  
Concen: 1.620 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.11 min  
Lab File: VW007867.D  
Acq: 23 Dec 2018 01:49

Tgt Ion: 43 Resp: 672  
Ion Ratio Lower Upper  
43 100  
58 183.9 33.2 49.8#





#52

Toluene

Concen: 2.013 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW007867.D

Acq: 23 Dec 2018 01:49

Instrument :

MSVOA\_W

ClientSampleId :

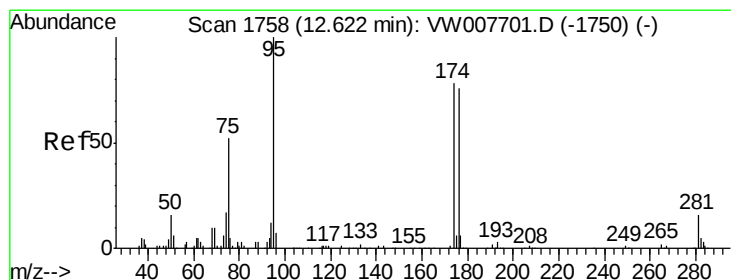
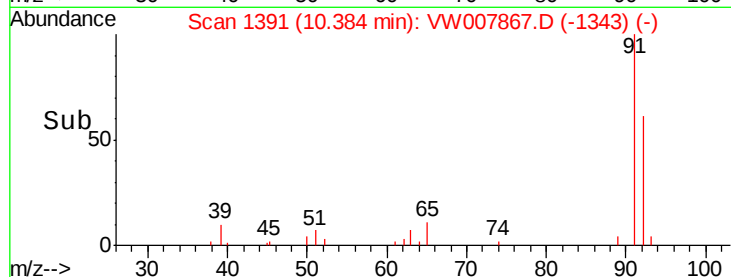
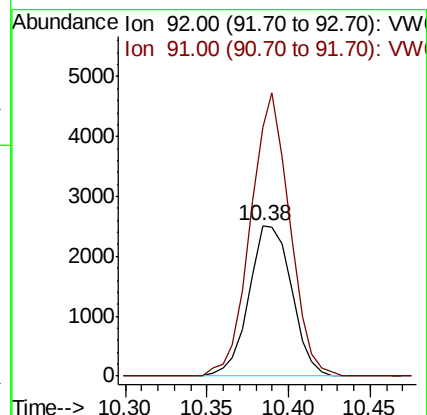
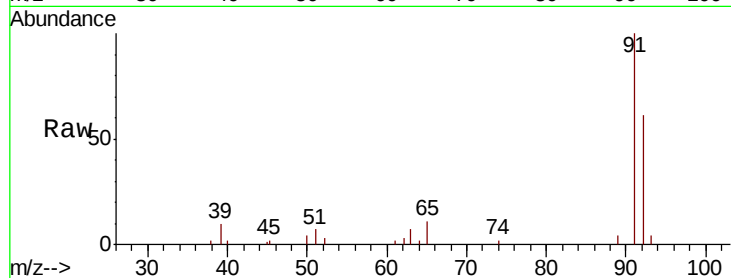
SB-65(0-5)-GRAB

Tgt Ion: 92 Resp: 4574

Ion Ratio Lower Upper

92 100

91 172.6 137.0 205.4



#62

4-Bromofluorobenzene

Concen: 45.509 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007867.D

Acq: 23 Dec 2018 01:49

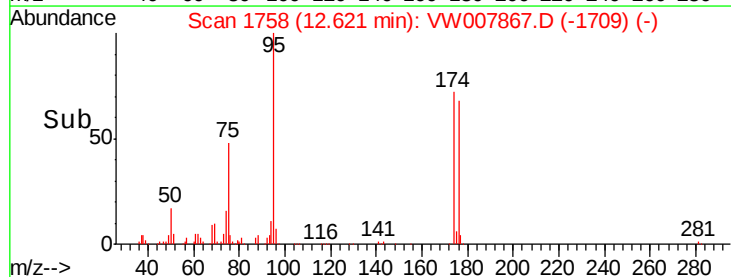
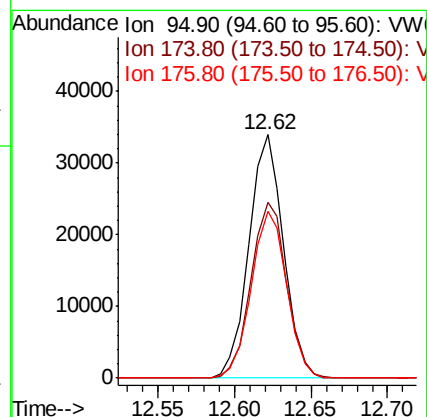
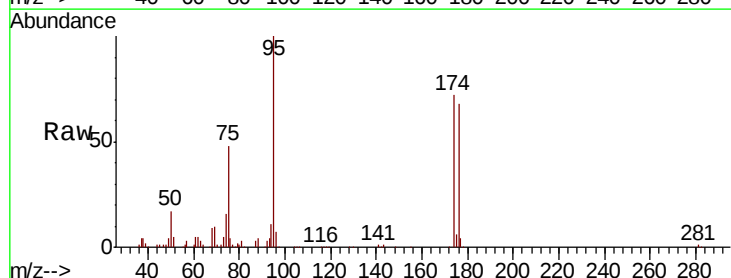
Tgt Ion: 95 Resp: 53166

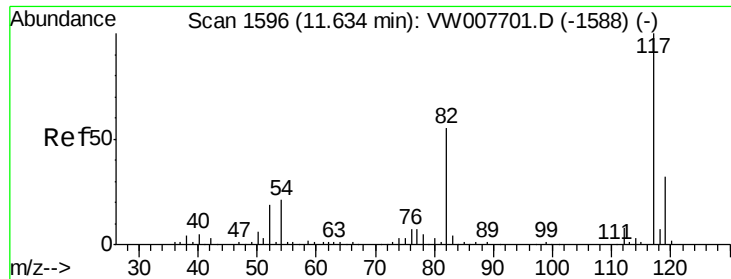
Ion Ratio Lower Upper

95 100

174 74.7 0.0 152.2

176 70.5 0.0 146.8

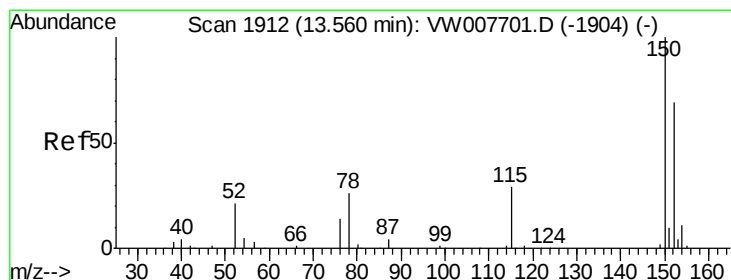
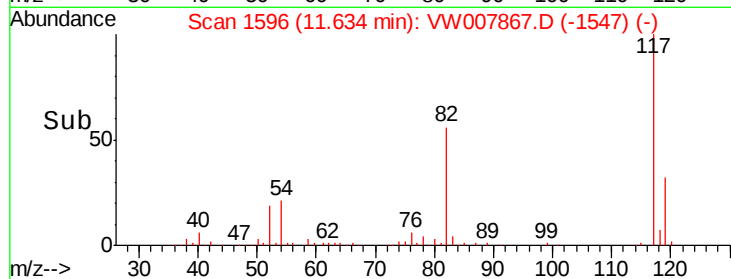
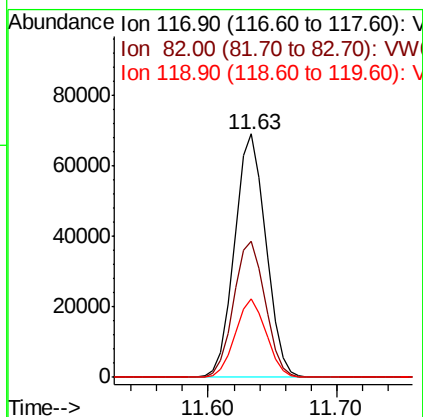
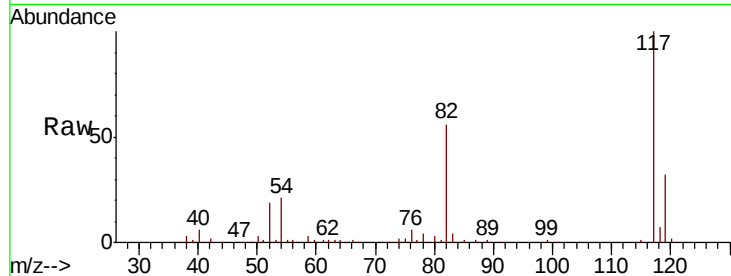




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007867.D  
Acq: 23 Dec 2018 01:49

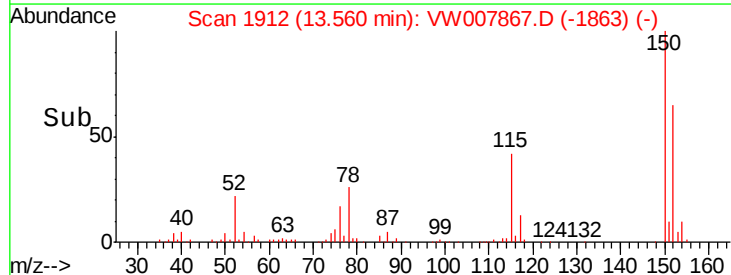
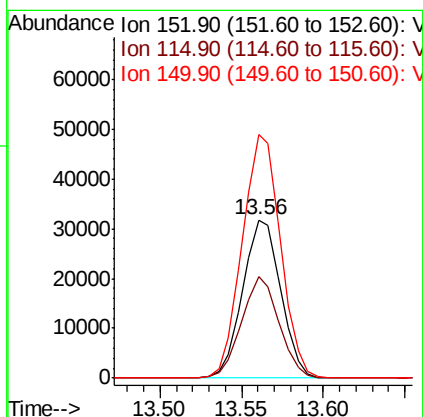
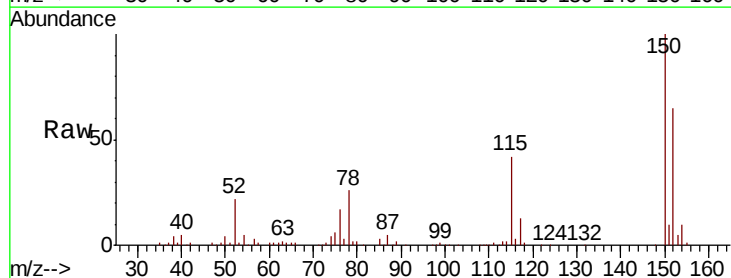
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-65(0-5)-GRAB

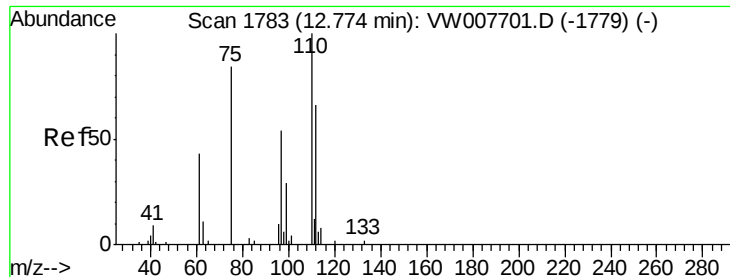
Tgt Ion:117 Resp: 116051  
Ion Ratio Lower Upper  
117 100  
82 55.8 44.3 66.5  
119 32.2 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW007867.D  
Acq: 23 Dec 2018 01:49

Tgt Ion:152 Resp: 51824  
Ion Ratio Lower Upper  
152 100  
115 63.1 31.8 95.4  
150 154.6 0.0 350.8

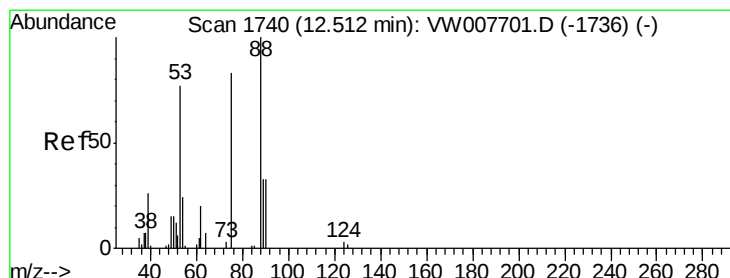
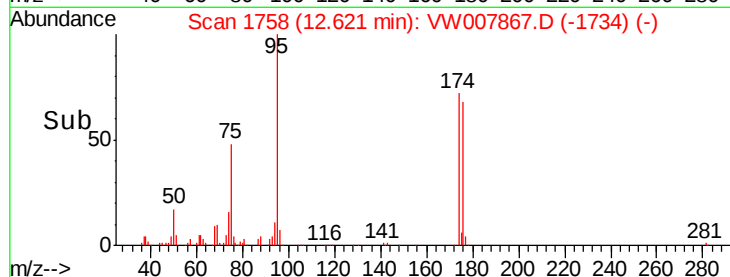
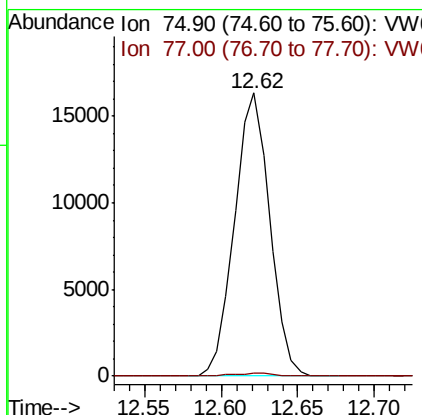
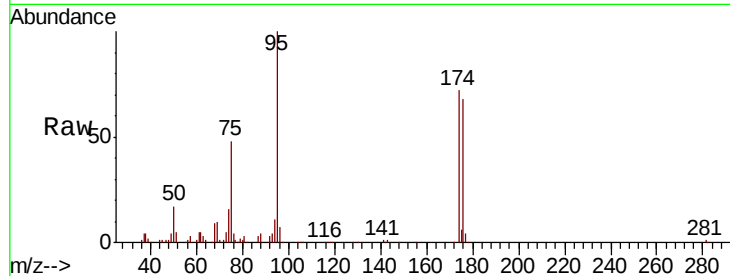




#76  
 1,2,3-Trichloropropane  
 Concen: 65.015 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.15 min  
 Lab File: VW007867.D  
 Acq: 23 Dec 2018 01:49

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-65(0-5)-GRAB

Tgt Ion: 75 Resp: 26042  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 136.472 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.11 min  
 Lab File: VW007867.D  
 Acq: 23 Dec 2018 01:49

Tgt Ion: 75 Resp: 26042  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 80.2 120.2#  
 89 0.0 39.2 58.8#

