

Data File : VW008211.D  
Acq On : 11 Jan 2019 22:50  
Operator : SY/VA  
Sample : K1113-02RE  
Misc : 5.47G/5ML/MSVOA\_W/SOIL  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BCB-3-1500RE

Quant Time: Jan 12 00:19:34 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 09 04:40:48 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 94463    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 168938   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 151399   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 69293    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 55611    | 52.38 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.76% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 53159    | 53.95 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.90% |      |
| 50) Toluene-d8              | 10.32  | 98  | 213090   | 51.54 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.08% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 73995    | 49.92 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.84%  |      |

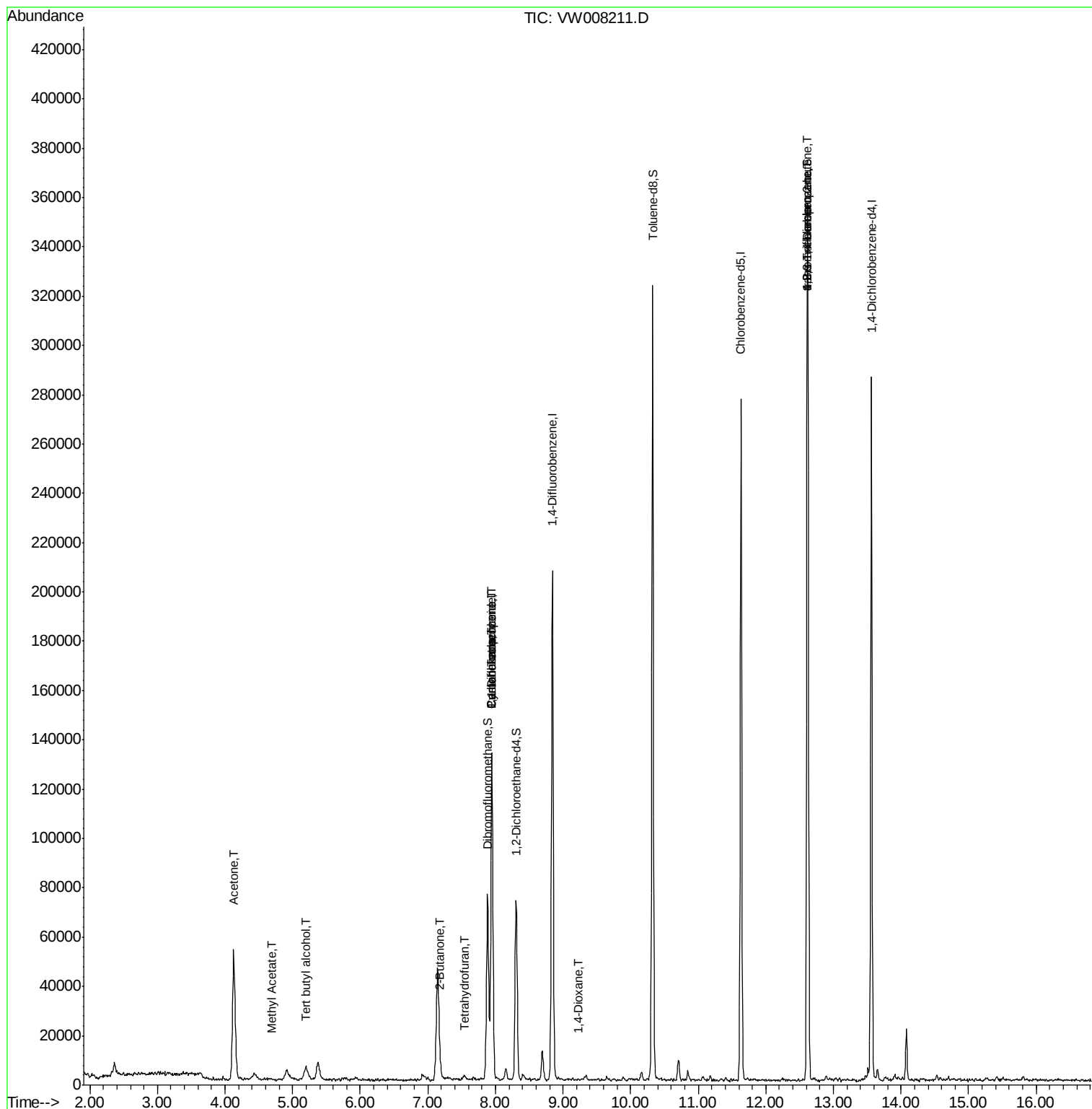
|                                |       |     |       |           |        |     |
|--------------------------------|-------|-----|-------|-----------|--------|-----|
| Target Compounds               |       |     |       | Qvalue    |        |     |
| 11) Tert butyl alcohol         | 5.20  | 59  | 11132 | 161.517   | ug/l # | 100 |
| 16) Acetone                    | 4.13  | 43  | 93439 | 511.774   | ug/l   | 95  |
| 18) Methyl Acetate             | 4.68  | 43  | 1545  | 2.302     | ug/l   | 99  |
| 20) Methylene Chloride         | 4.92  | 84  | 2557  | Below Cal | #      | 84  |
| 25) 2-Butanone                 | 7.18  | 43  | 2743  | 9.286     | ug/l   | 91  |
| 29) Tetrahydrofuran            | 7.54  | 42  | 821   | 4.161     | ug/l # | 65  |
| 31) Cyclohexane                | 7.94  | 56  | 2991  | 1.339     | ug/l # | 41  |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 8078  | 4.642     | ug/l # | 49  |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 10153 | 6.374     | ug/l # | 19  |
| 49) 1,4-Dioxane                | 9.21  | 88  | 26    | 2.813     | ug/l # | 1   |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 38168 | 60.423    | ug/l # | 1   |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 38168 | 140.707   | ug/l # | 11  |

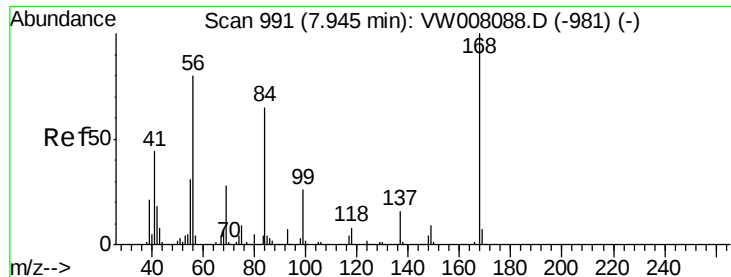
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW008211.D

Acq: 11 Jan 2019 22:50

Instrument :

MSVOA\_W

ClientSampleId :

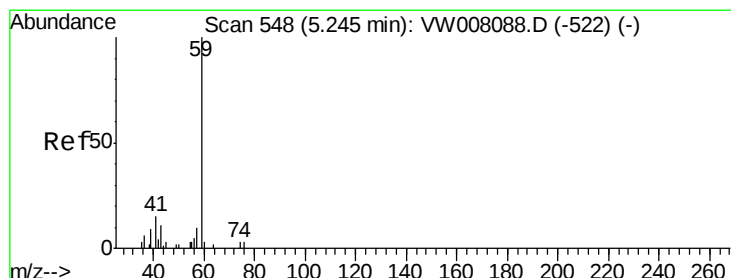
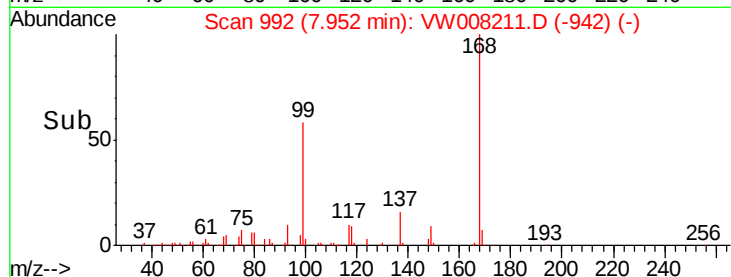
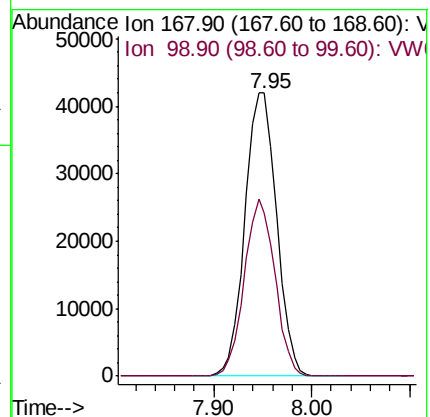
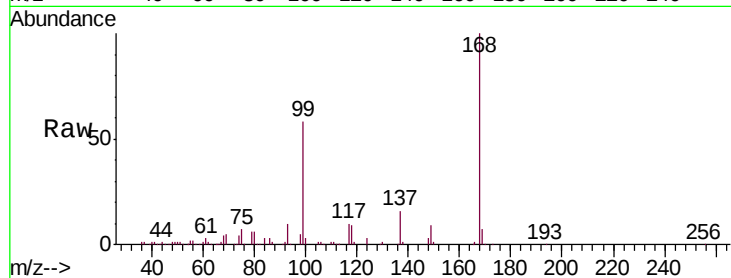
BCB-3-1500RE

Tgt Ion:168 Resp: 94463

Ion Ratio Lower Upper

168 100

99 57.8 52.6 78.8



#11

Tert butyl alcohol

Concen: 161.517 ug/l

RT: 5.20 min Scan# 540

Delta R.T. -0.05 min

Lab File: VW008211.D

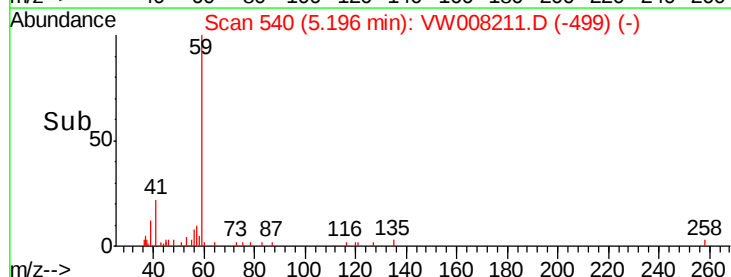
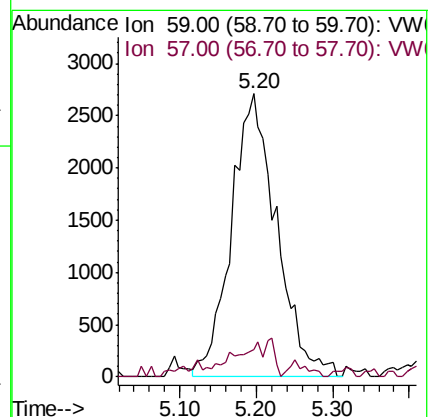
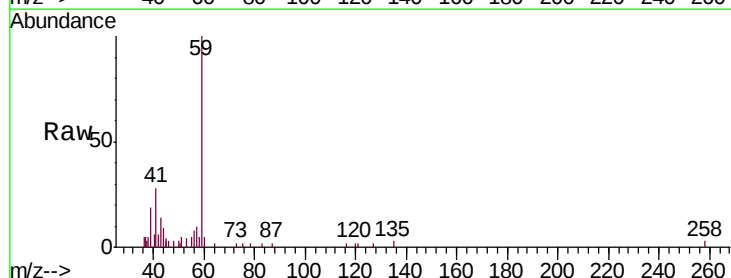
Acq: 11 Jan 2019 22:50

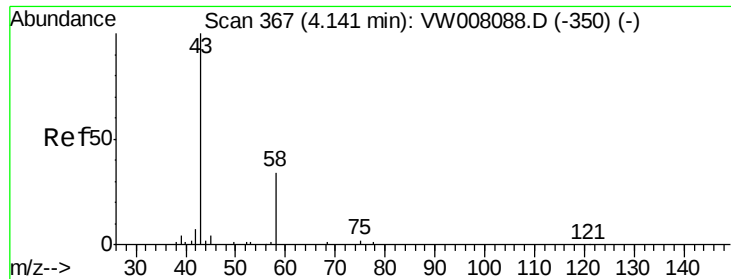
Tgt Ion: 59 Resp: 11132

Ion Ratio Lower Upper

59 100

57 7.4 0.0 0.0#





#16

Acetone

Concen: 511.774 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW008211.D

Acq: 11 Jan 2019 22:50

Instrument :

MSVOA\_W

ClientSampleId :

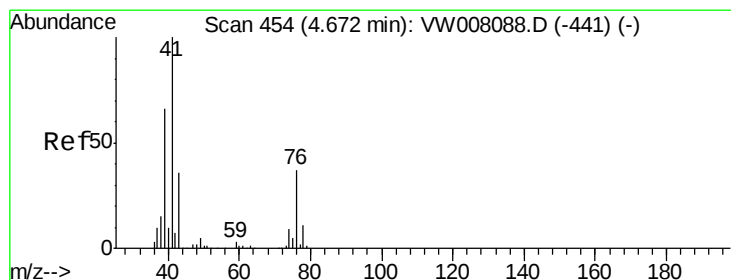
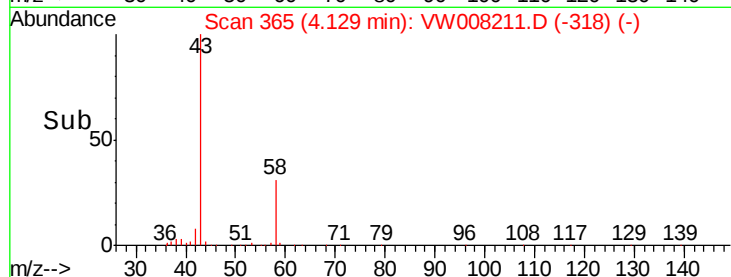
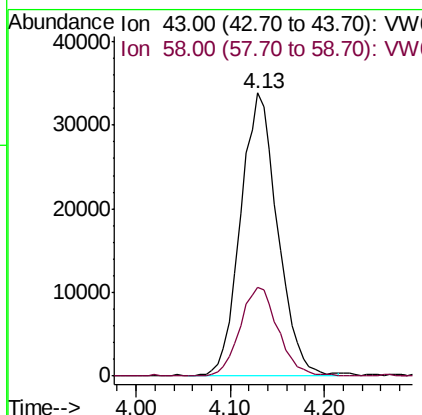
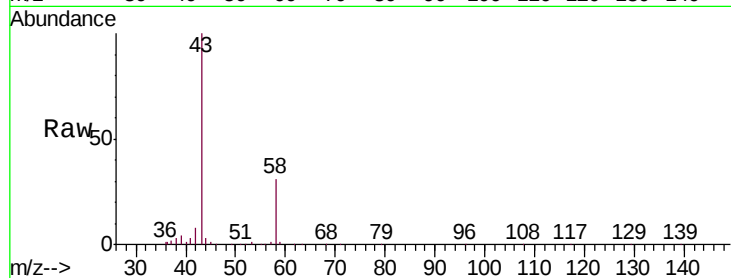
BCB-3-1500RE

Tgt Ion: 43 Resp: 93439

Ion Ratio Lower Upper

43 100

58 31.4 27.5 41.3



#18

Methyl Acetate

Concen: 2.302 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW008211.D

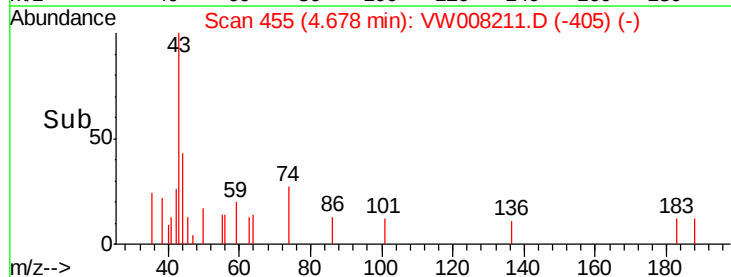
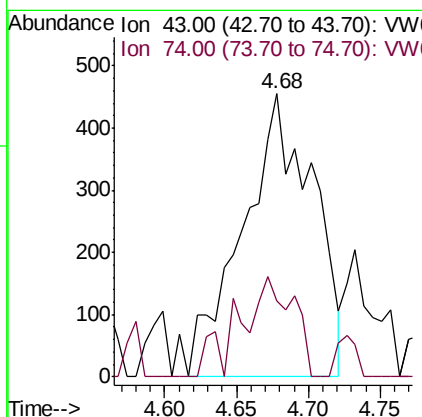
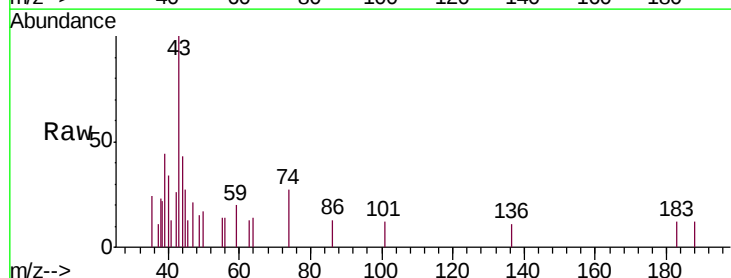
Acq: 11 Jan 2019 22:50

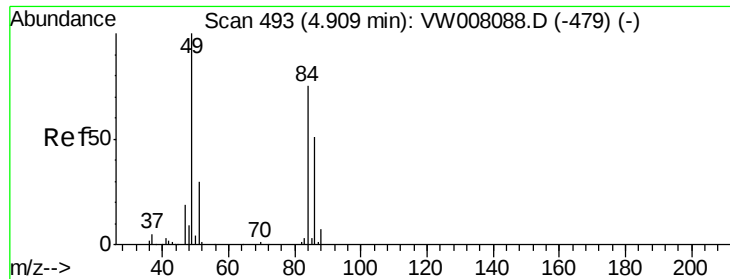
Tgt Ion: 43 Resp: 1545

Ion Ratio Lower Upper

43 100

74 24.3 19.0 28.4

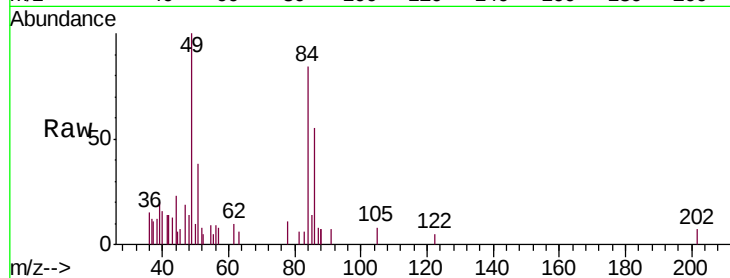




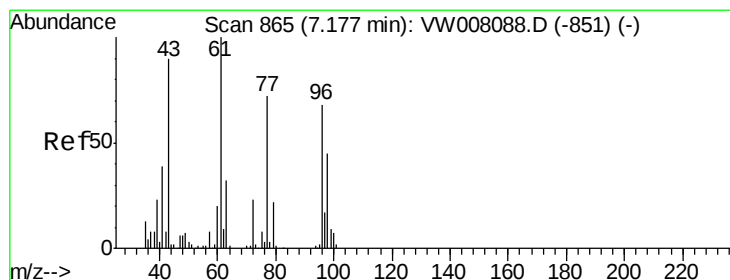
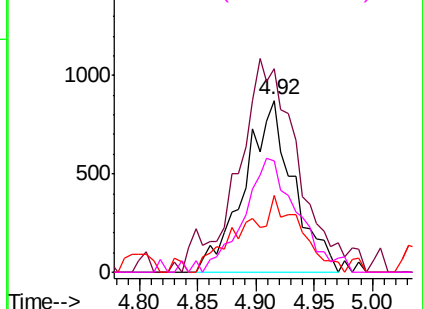
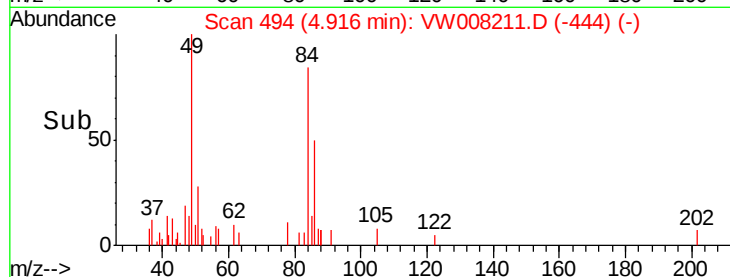
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW008211.D  
Acq: 11 Jan 2019 22:50

Instrument :  
MSVOA\_W  
ClientSampleId :  
BCB-3-1500RE

Tgt Ion: 84 Resp: 2557  
Ion Ratio Lower Upper  
84 100  
49 104.6 107.1 160.7#  
51 44.8 32.4 48.6  
86 64.9 54.2 81.4

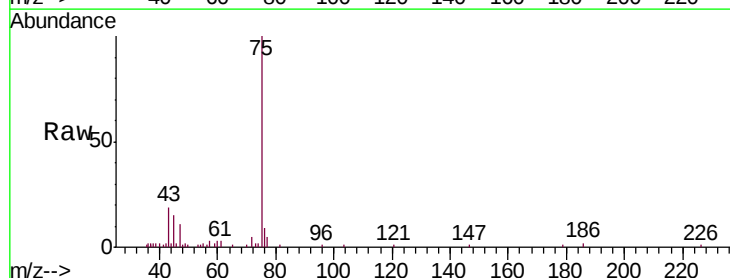


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

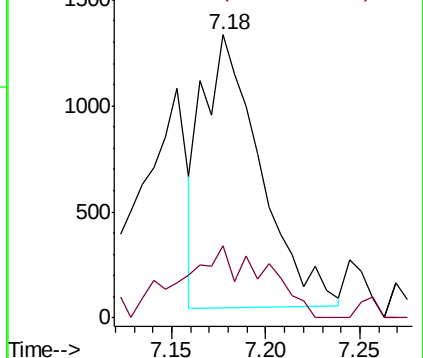
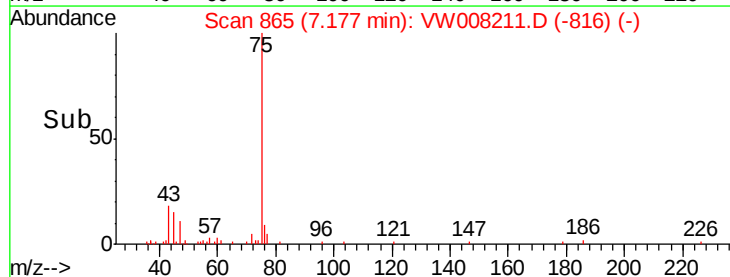


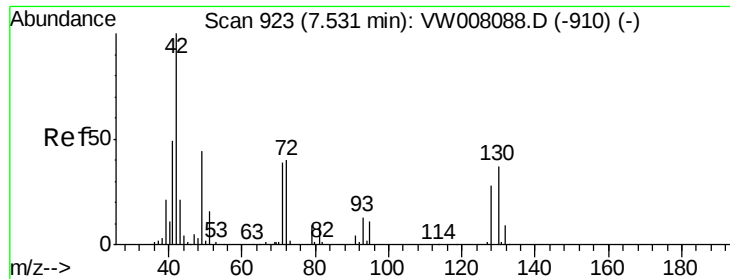
#25  
2-Butanone  
Concen: 9.286 ug/l  
RT: 7.18 min Scan# 865  
Delta R.T. 0.00 min  
Lab File: VW008211.D  
Acq: 11 Jan 2019 22:50

Tgt Ion: 43 Resp: 2743  
Ion Ratio Lower Upper  
43 100  
72 30.0 20.5 30.7



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 72.00 (71.70 to 72.70): VW





#29

Tetrahydrofuran

Concen: 4.161 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW008211.D

Acq: 11 Jan 2019 22:50

Instrument :

MSVOA\_W

ClientSampleId :

BCB-3-1500RE

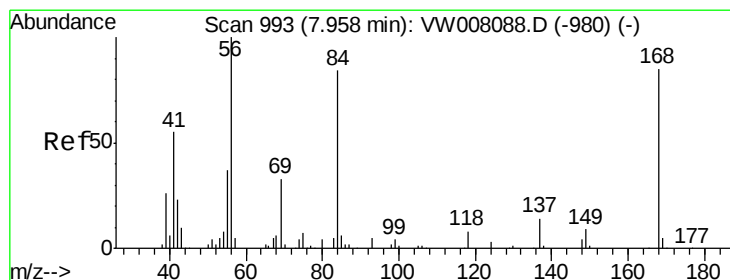
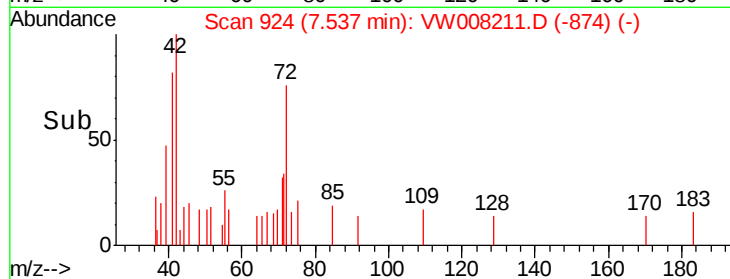
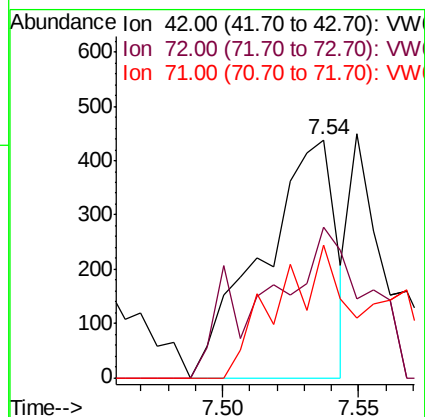
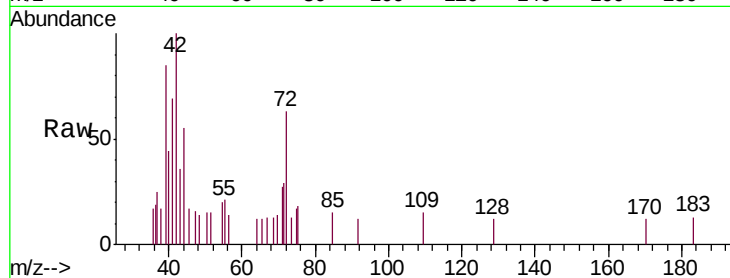
Tgt Ion: 42 Resp: 821

Ion Ratio Lower Upper

42 100

72 71.7 32.4 48.6#

71 50.7 31.3 46.9#



#31

Cyclohexane

Concen: 1.339 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW008211.D

Acq: 11 Jan 2019 22:50

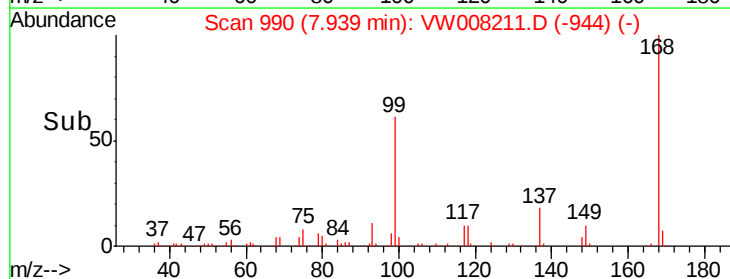
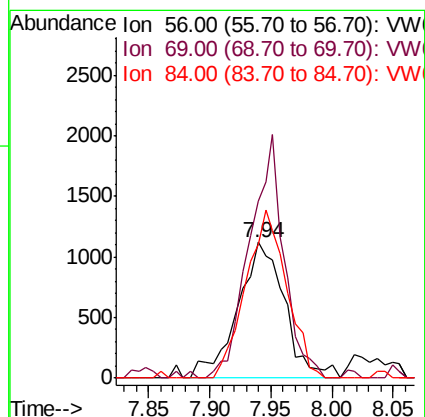
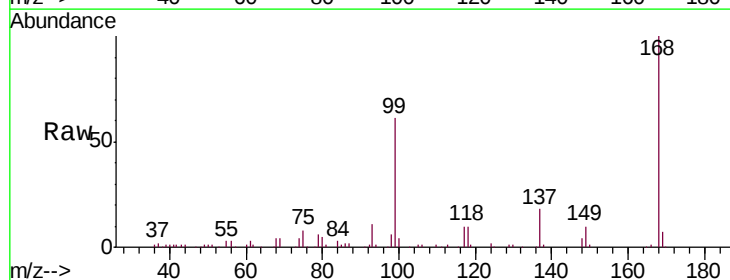
Tgt Ion: 56 Resp: 2991

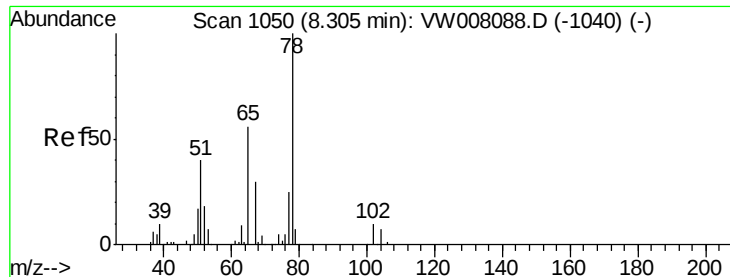
Ion Ratio Lower Upper

56 100

69 130.0 26.2 39.4#

84 98.1 67.4 101.2





#33

1,2-Dichloroethane-d4

Concen: 52.380 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008211.D

Acq: 11 Jan 2019 22:50

Instrument :

MSVOA\_W

ClientSampleId :

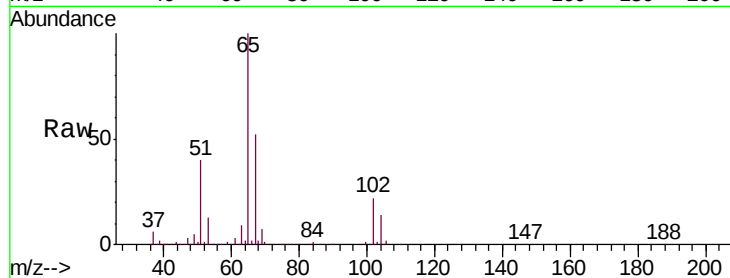
BCB-3-1500RE

Tgt Ion: 65 Resp: 55611

Ion Ratio Lower Upper

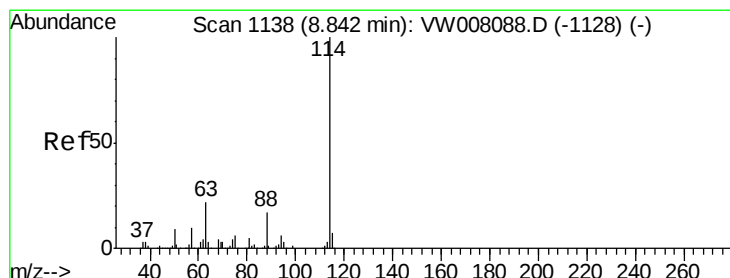
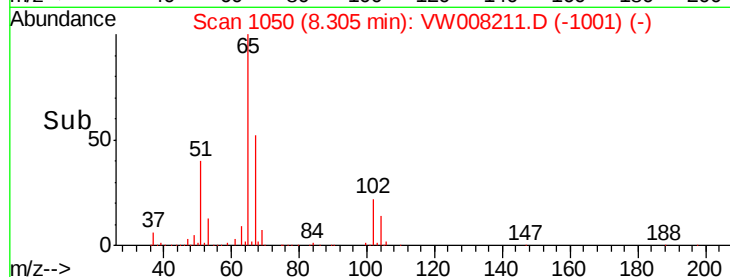
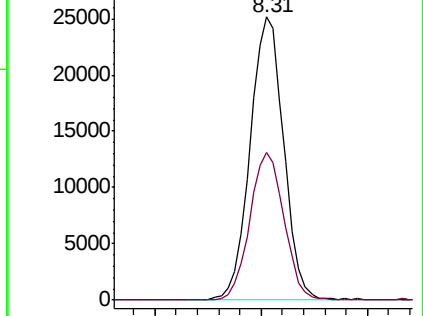
65 100

67 53.0 0.0 106.8



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: VW008211.D

Acq: 11 Jan 2019 22:50

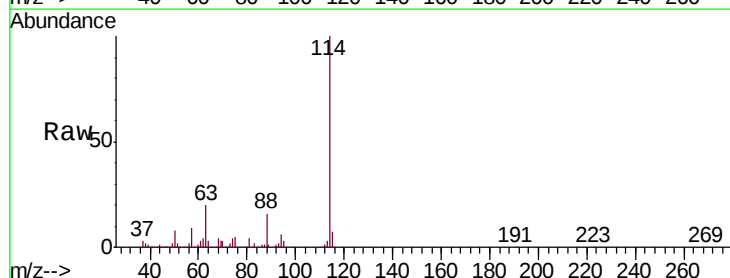
Tgt Ion: 114 Resp: 168938

Ion Ratio Lower Upper

114 100

63 20.1 0.0 43.4

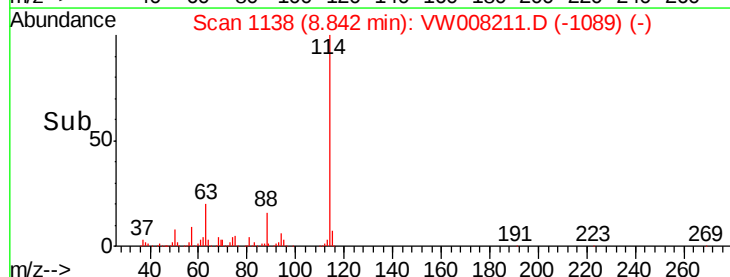
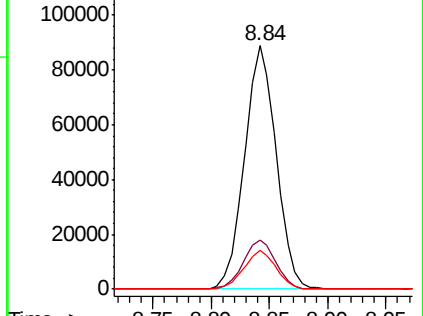
88 16.0 0.0 33.4

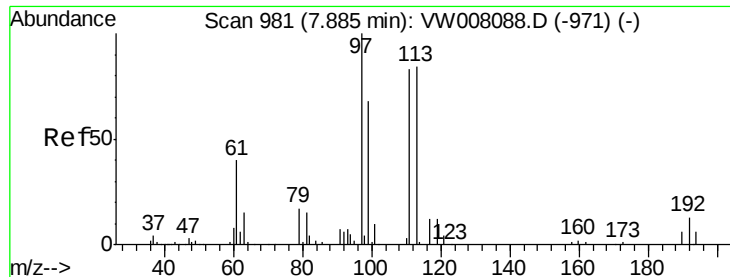


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

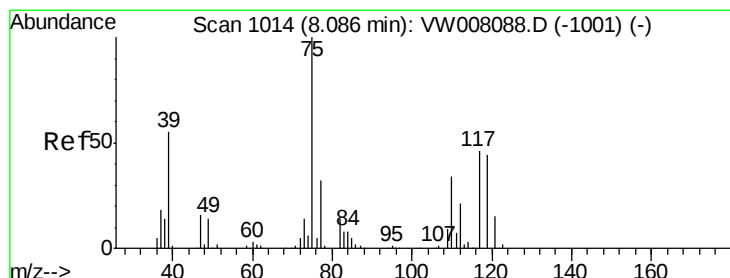
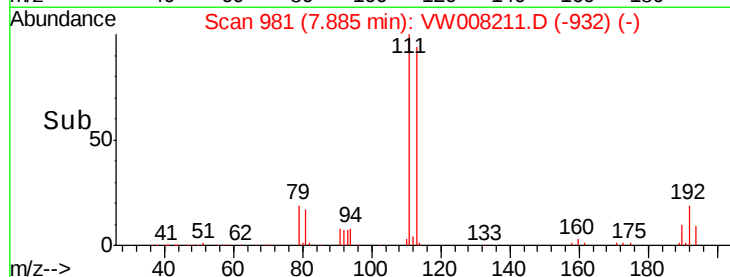
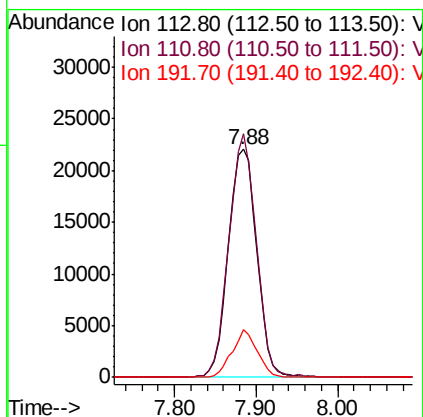
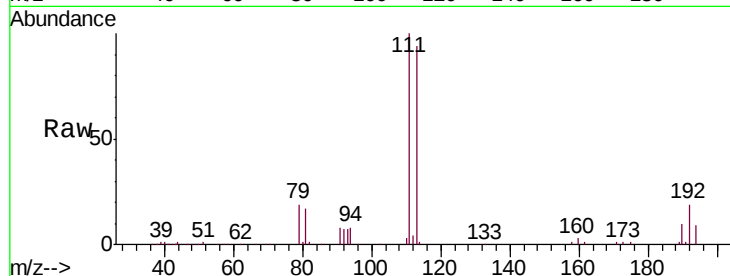




#35  
 Dibromofluoromethane  
 Concen: 53.951 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW008211.D  
 Acq: 11 Jan 2019 22:50

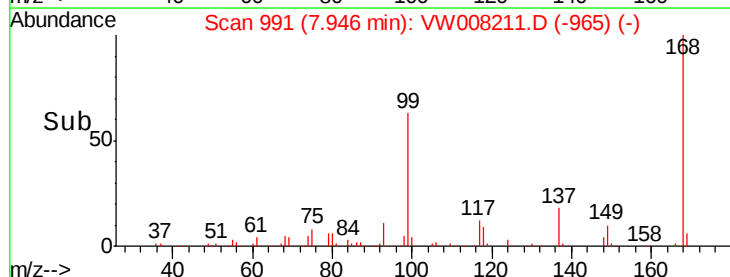
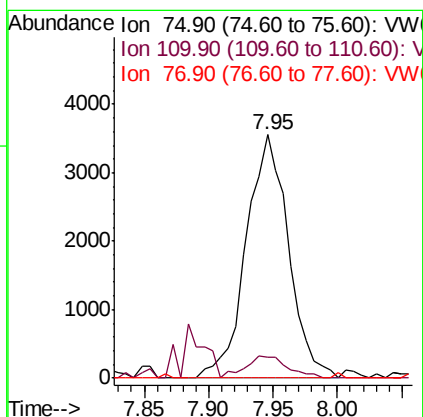
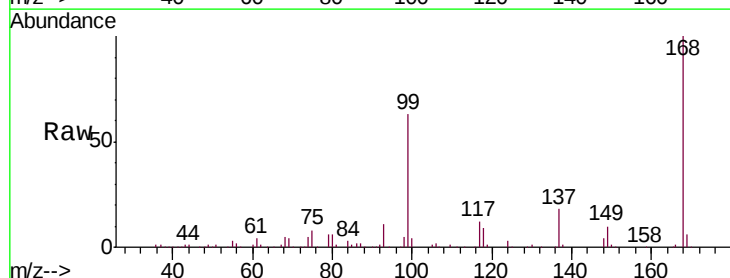
Instrument :  
 MSVOA\_W  
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 BCB-3-1500RE

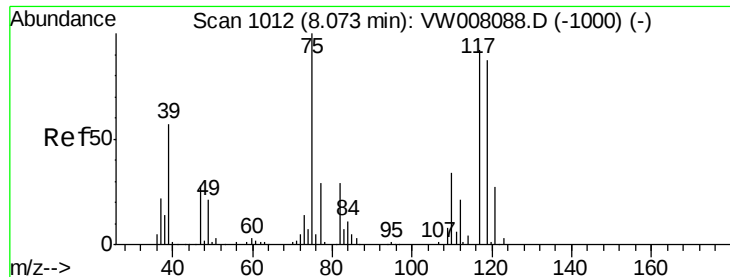
Tgt Ion:113 Resp: 53159  
 Ion Ratio Lower Upper  
 113 100  
 111 102.2 81.8 122.8  
 192 18.5 12.8 19.2



#36  
 1,1-Dichloropropene  
 Concen: 4.642 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.14 min  
 Lab File: VW008211.D  
 Acq: 11 Jan 2019 22:50

Tgt Ion: 75 Resp: 8078  
 Ion Ratio Lower Upper  
 75 100  
 110 8.3 17.1 51.3#  
 77 0.0 25.5 38.3#

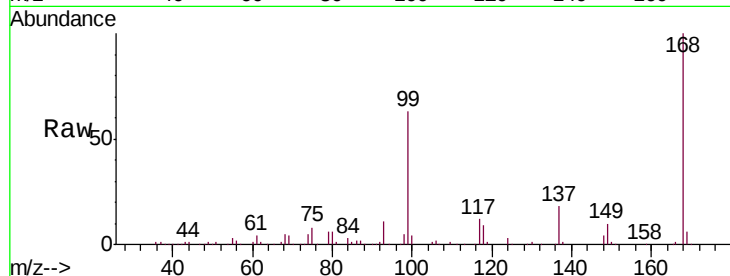




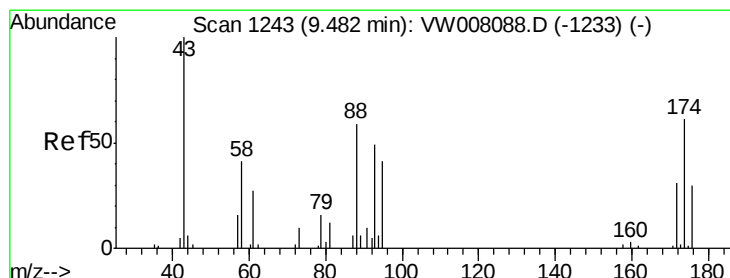
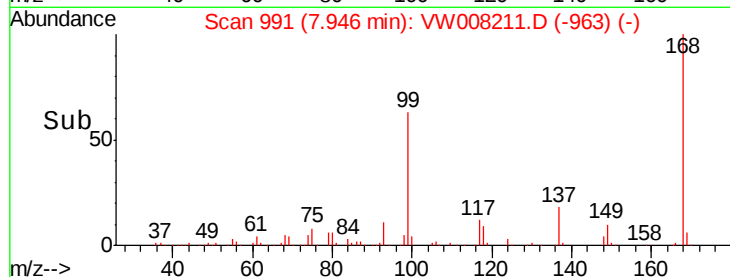
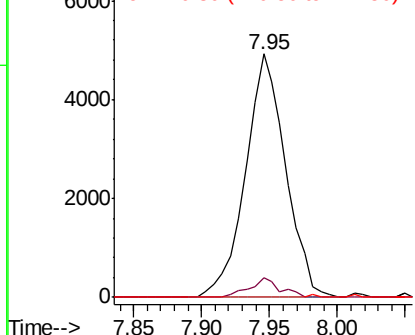
#38  
Carbon Tetrachloride  
Concen: 6.374 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.13 min  
Lab File: VW008211.D  
Acq: 11 Jan 2019 22:50

Instrument :  
MSVOA\_W  
ClientSampleId :  
BCB-3-1500RE

Tgt Ion: 117 Resp: 10153  
Ion Ratio Lower Upper  
117 100  
119 7.8 75.8 113.8#  
121 0.0 23.7 35.5#

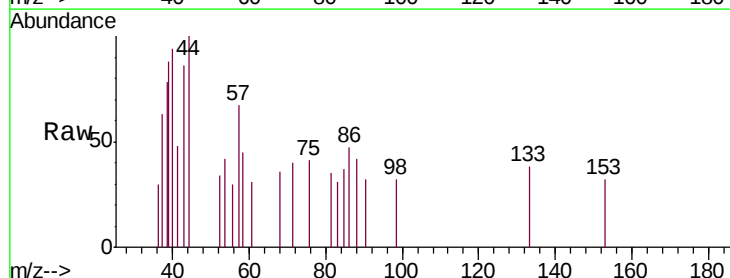


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

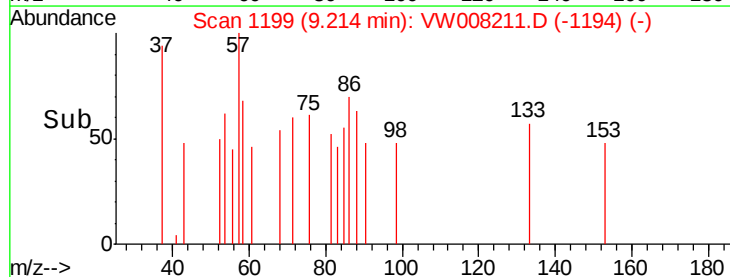
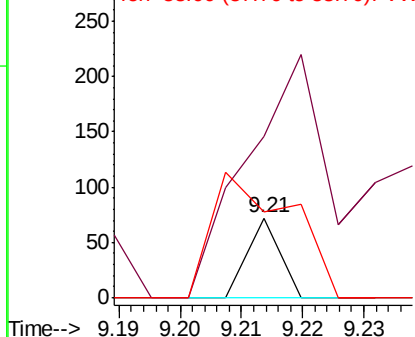


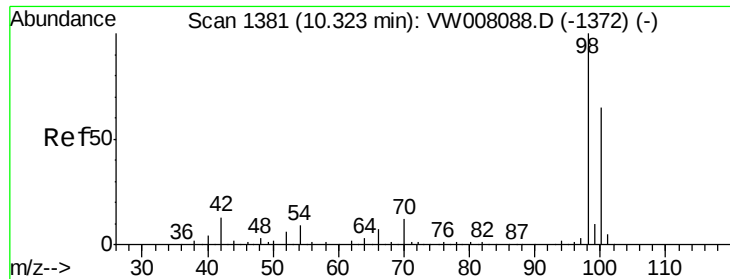
#49  
1,4-Dioxane  
Concen: 2.813 ug/l  
RT: 9.21 min Scan# 1199  
Delta R.T. -0.27 min  
Lab File: VW008211.D  
Acq: 11 Jan 2019 22:50

Tgt Ion: 88 Resp: 26  
Ion Ratio Lower Upper  
88 100  
43 1226.9 0.0 0.0#  
58 388.5 61.7 92.5#



Abundance Ion 88.00 (87.70 to 88.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 51.536 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008211.D

Acq: 11 Jan 2019 22:50

Instrument :

MSVOA\_W

ClientSampleId :

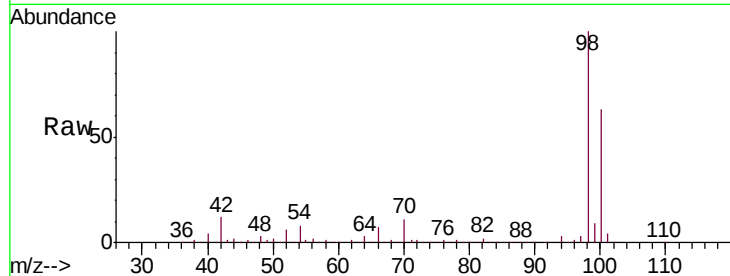
BCB-3-1500RE

Tgt Ion: 98 Resp: 213090

Ion Ratio Lower Upper

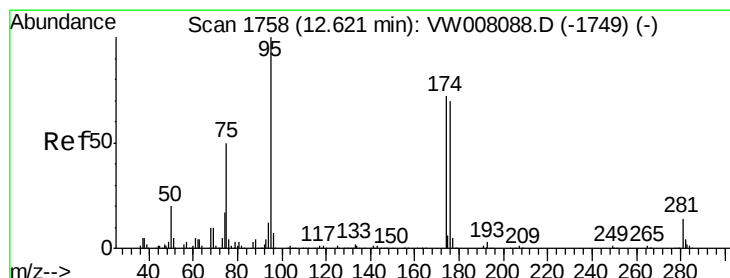
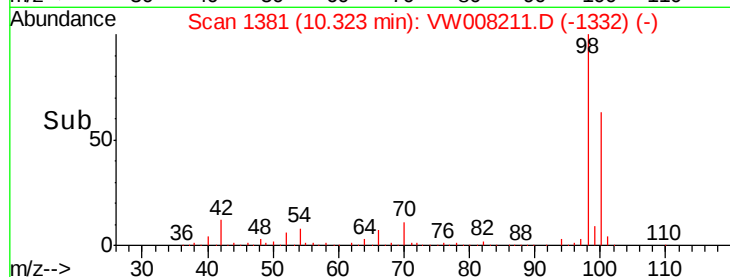
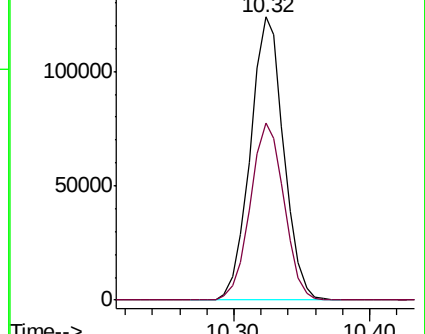
98 100

100 63.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 49.919 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008211.D

Acq: 11 Jan 2019 22:50

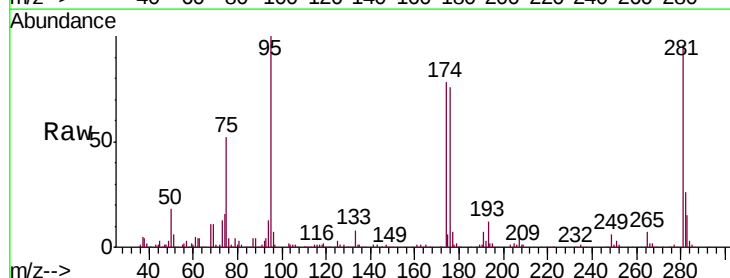
Tgt Ion: 95 Resp: 73995

Ion Ratio Lower Upper

95 100

174 76.5 0.0 143.0

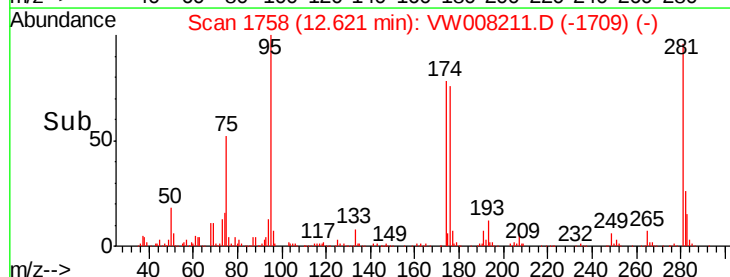
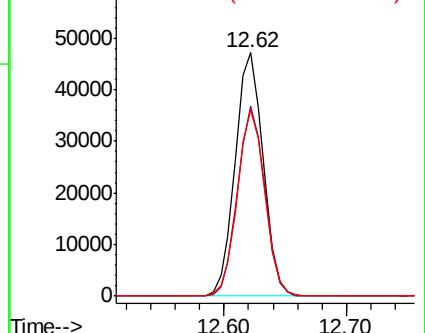
176 75.1 0.0 140.2

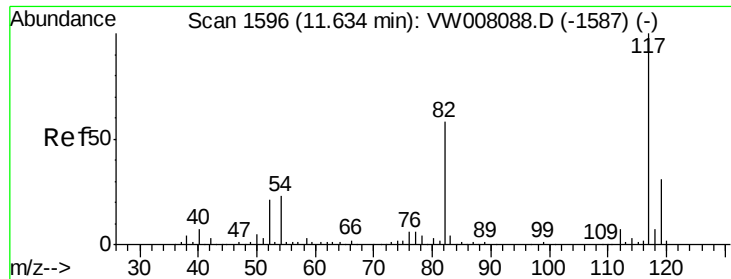


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

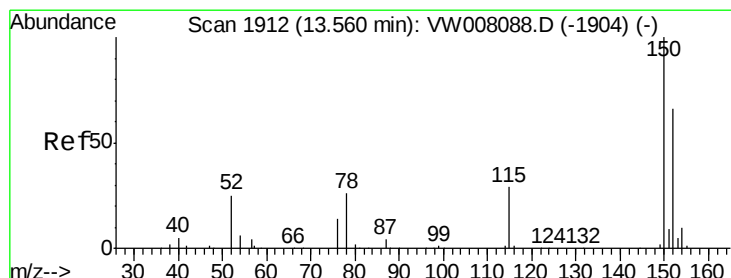
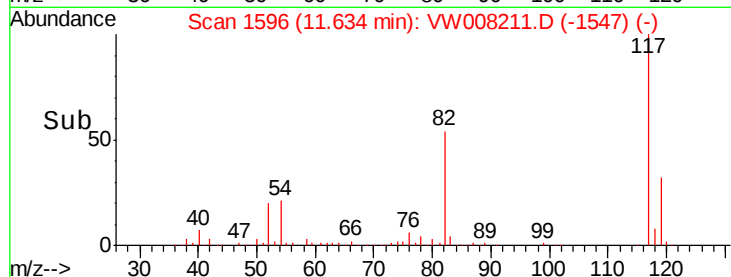
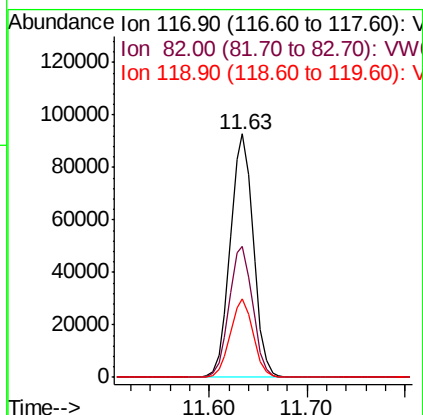
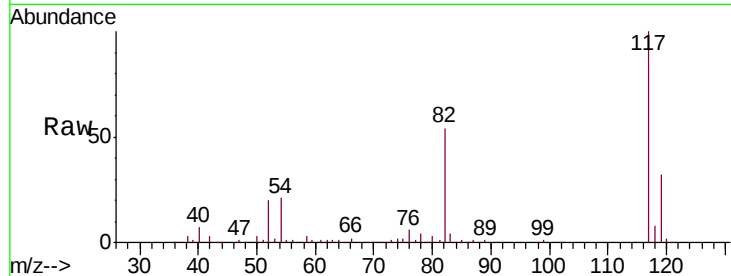




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW008211.D  
Acq: 11 Jan 2019 22:50

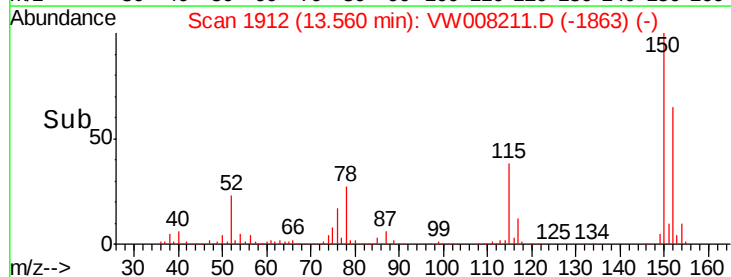
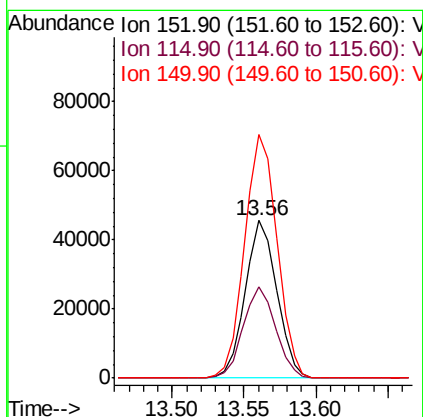
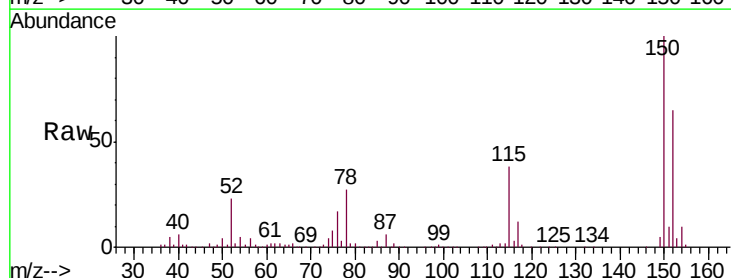
Instrument :  
MSVOA\_W  
ClientSampleId :  
BCB-3-1500RE

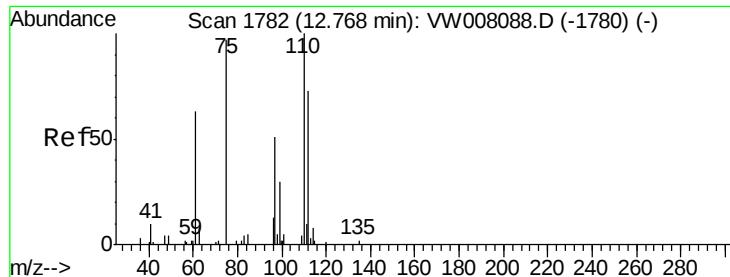
Tgt Ion:117 Resp: 151399  
Ion Ratio Lower Upper  
117 100  
82 54.1 46.4 69.6  
119 32.0 24.7 37.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW008211.D  
Acq: 11 Jan 2019 22:50

Tgt Ion:152 Resp: 69293  
Ion Ratio Lower Upper  
152 100  
115 59.3 30.8 92.4  
150 158.4 0.0 350.2





#76

1,2,3-Trichloropropane

Concen: 60.423 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008211.D

Acq: 11 Jan 2019 22:50

Instrument :

MSVOA\_W

ClientSampleId :

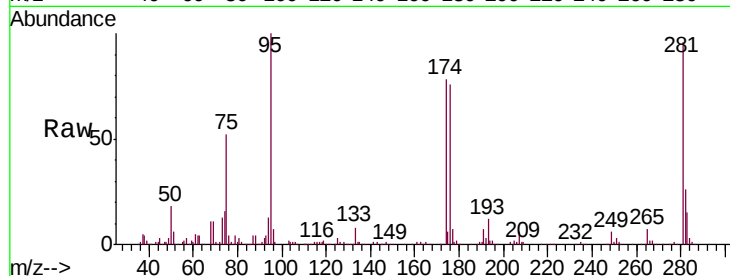
BCB-3-1500RE

Tgt Ion: 75 Resp: 38168

Ion Ratio Lower Upper

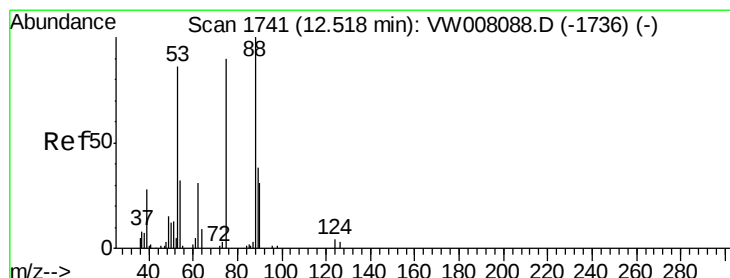
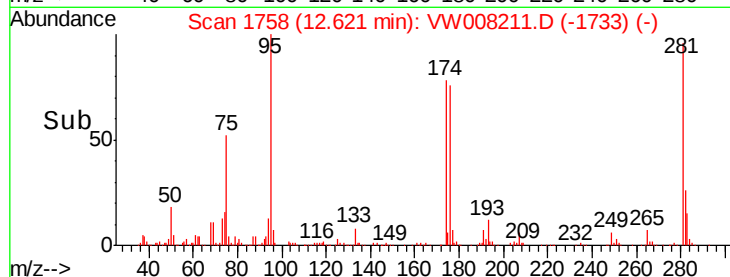
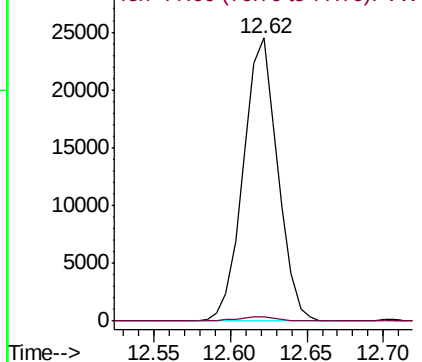
75 100

77 1.9 179.4 538.2#



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: 140.707 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008211.D

Acq: 11 Jan 2019 22:50

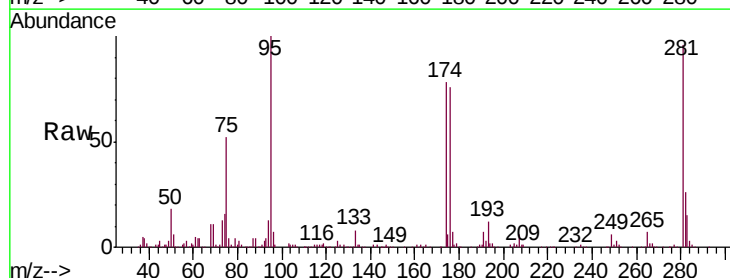
Tgt Ion: 75 Resp: 38168

Ion Ratio Lower Upper

75 100

53 0.5 78.8 118.2#

89 1.4 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

