

Data File : VW010489.D  
Acq On : 21 May 2019 16:00  
Operator : SY/VA  
Sample : K2952-11  
Misc : 5.03G/5ML/MSVOA\_W/SOIL  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BP-VPB202-GW-763-765

Quant Time: May 22 06:43:52 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 21 06:38:43 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 115351   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 218726   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 198968   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 85726    | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 77036    | 64.70 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 129.40% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 70314    | 52.98 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.96% |      |
| 50) Toluene-d8            | 10.32  | 98  | 272071   | 53.66 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.32% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 102570   | 50.79 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.58% |      |

Target Compounds

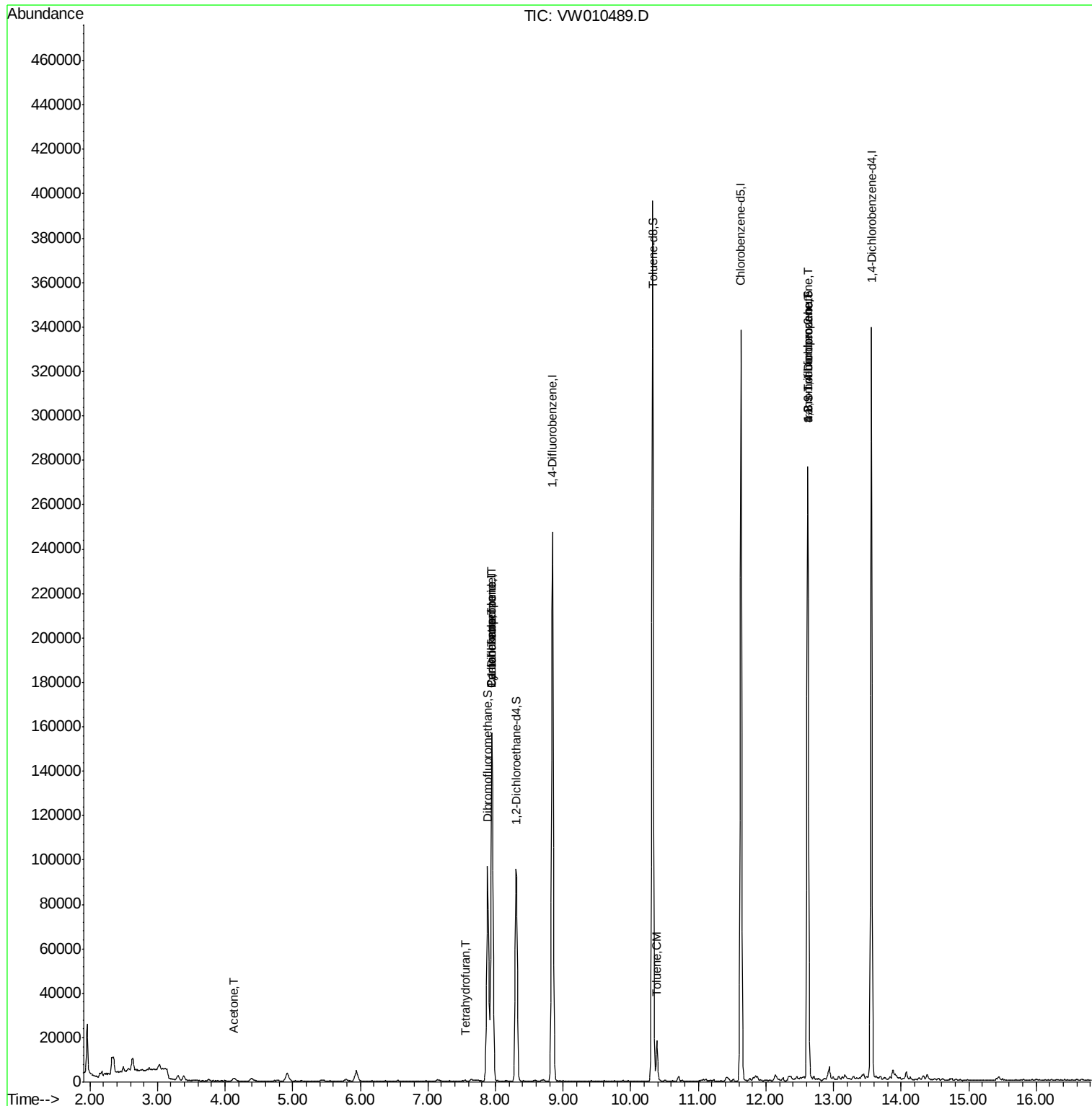
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.00  | 85  | 52    | Below Cal | #      | 42     |
| 13) Acrolein                   | 3.75  | 56  | 26    | Below Cal | #      | 1      |
| 16) Acetone                    | 4.13  | 43  | 2645  | 10.883    | ug/l   | 96     |
| 20) Methylene Chloride         | 4.92  | 84  | 2703  | Below Cal | #      | 89     |
| 29) Tetrahydrofuran            | 7.56  | 42  | 351   | 1.491     | ug/l # | 30     |
| 31) Cyclohexane                | 7.95  | 56  | 2433  | 1.076     | ug/l # | 41     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 9014  | 4.424     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 12194 | 5.548     | ug/l # | 15     |
| 52) Toluene                    | 10.39 | 92  | 7838  | 2.061     | ug/l   | 97     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 49794 | 57.223    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 49794 | 119.426   | ug/l # | 14     |

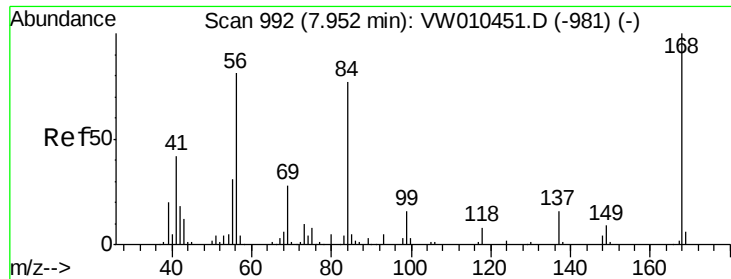
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010489.D

Acq: 21 May 2019 16:00

Instrument :

MSVOA\_W

ClientSampleId :

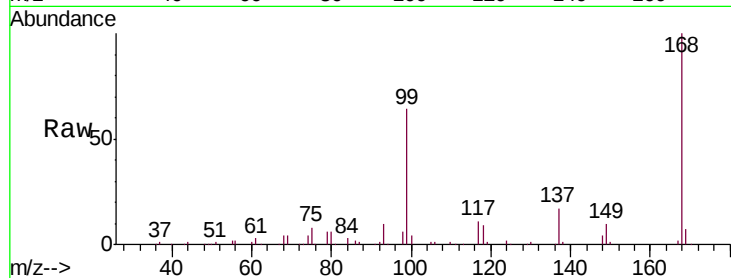
BP-VPB202-GW-763-765

Tgt Ion: 168 Resp: 115351

Ion Ratio Lower Upper

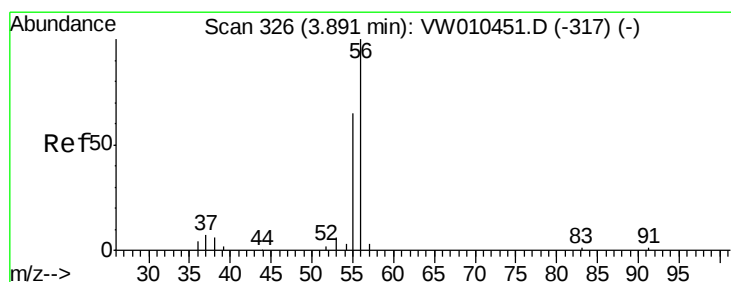
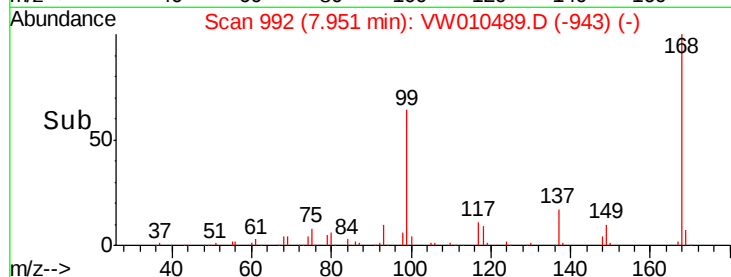
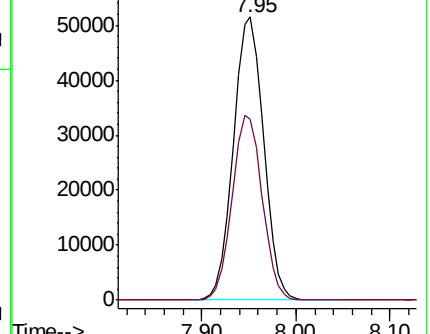
168 100

99 64.0 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#13

Acrolein

Concen: Below Cal

RT: 3.75 min Scan# 303

Delta R.T. -0.14 min

Lab File: VW010489.D

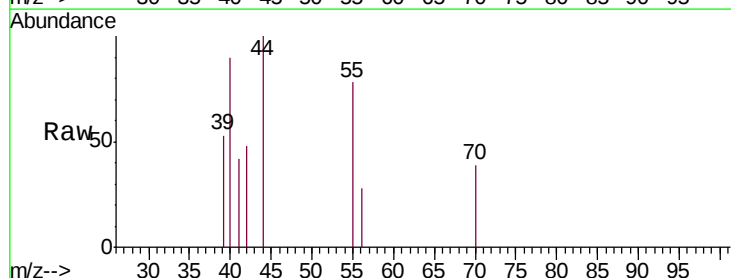
Acq: 21 May 2019 16:00

Tgt Ion: 56 Resp: 26

Ion Ratio Lower Upper

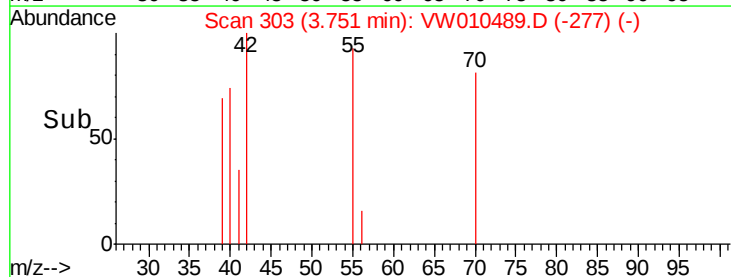
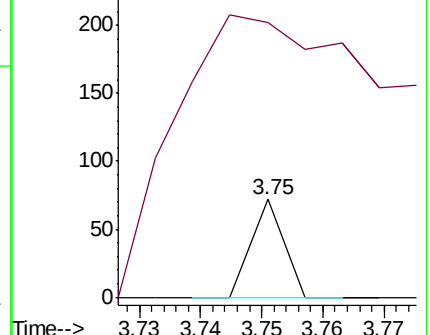
56 100

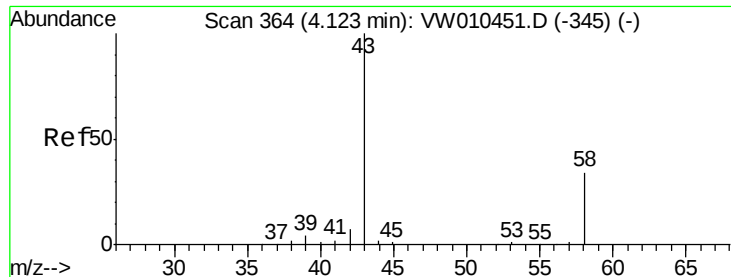
55 2273.1 57.9 86.9#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW





#16

Acetone

Concen: 10.883 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010489.D

Acq: 21 May 2019 16:00

Instrument :

MSVOA\_W

ClientSampleId :

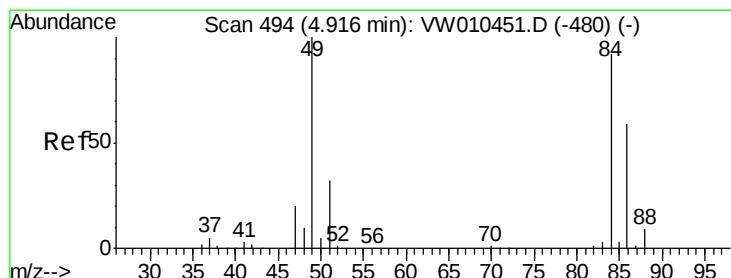
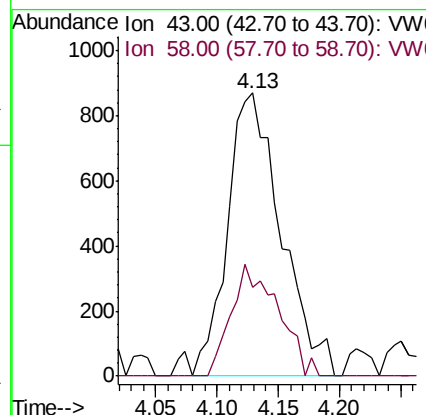
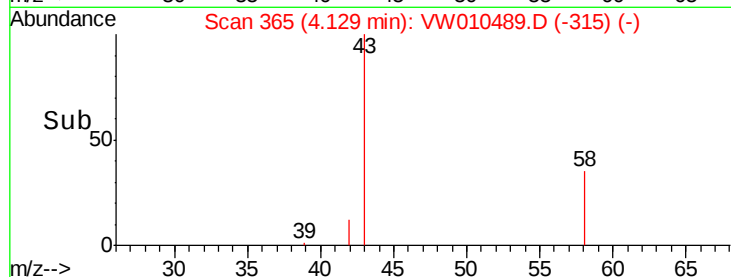
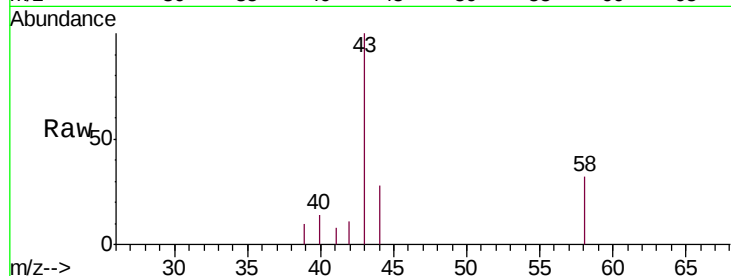
BP-VPB202-GW-763-765

Tgt Ion: 43 Resp: 2645

Ion Ratio Lower Upper

43 100

58 31.5 27.0 40.4



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW010489.D

Acq: 21 May 2019 16:00

Tgt Ion: 84 Resp: 2703

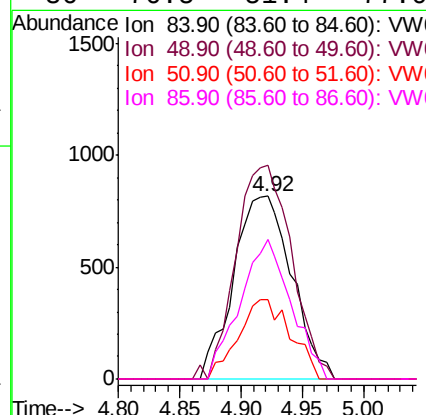
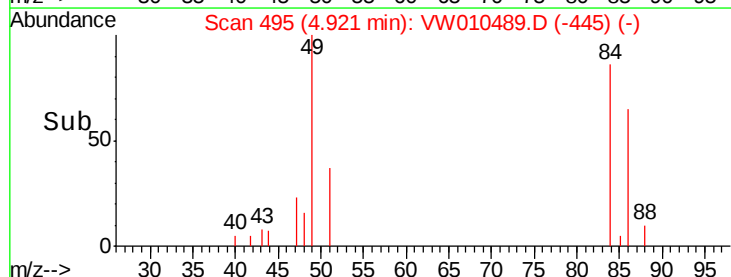
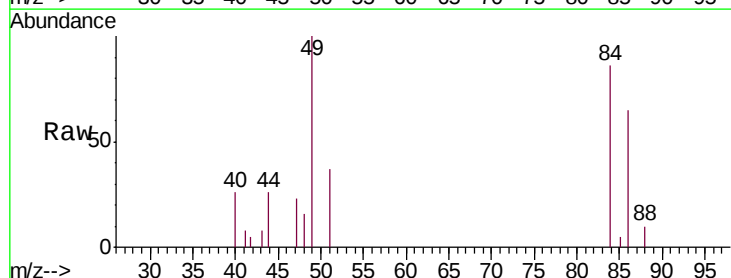
Ion Ratio Lower Upper

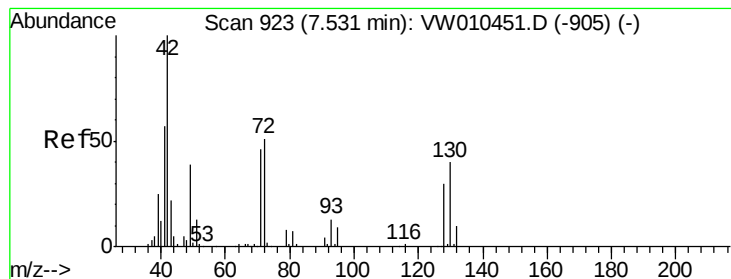
84 100

49 116.9 87.2 130.8

51 43.7 27.7 41.5#

86 76.5 51.4 77.0





#29

Tetrahydrofuran

Concen: 1.491 ug/l

RT: 7.56 min Scan# 927

Delta R.T. 0.02 min

Lab File: VW010489.D

Acq: 21 May 2019 16:00

Instrument :

MSVOA\_W

ClientSampleId :

BP-VPB202-GW-763-765

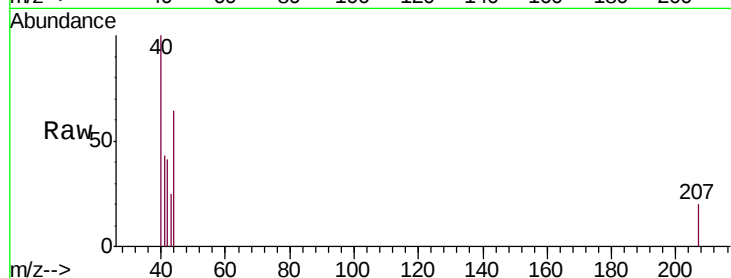
Tgt Ion: 42 Resp: 351

Ion Ratio Lower Upper

42 100

72 0.0 38.5 57.7#

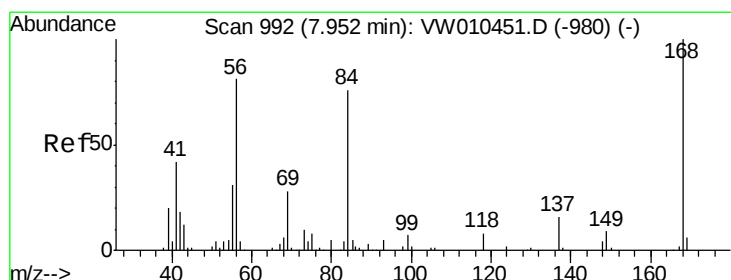
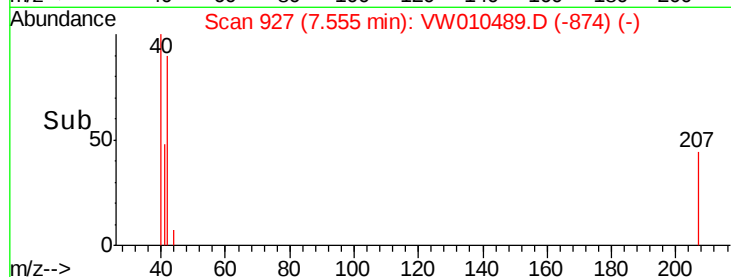
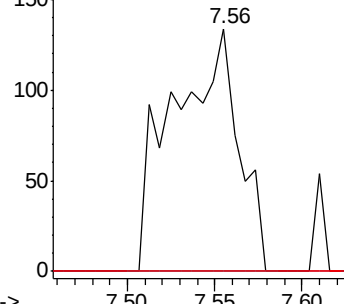
71 0.0 36.5 54.7#



Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.076 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010489.D

Acq: 21 May 2019 16:00

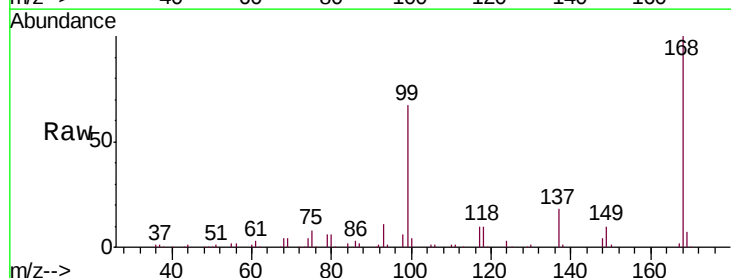
Tgt Ion: 56 Resp: 2433

Ion Ratio Lower Upper

56 100

69 149.6 28.2 42.2#

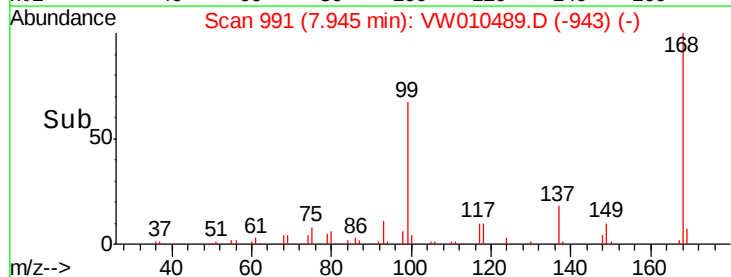
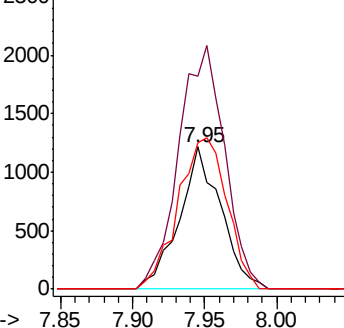
84 102.7 75.8 113.8

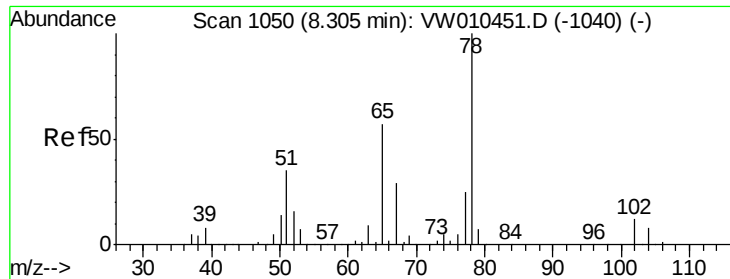


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

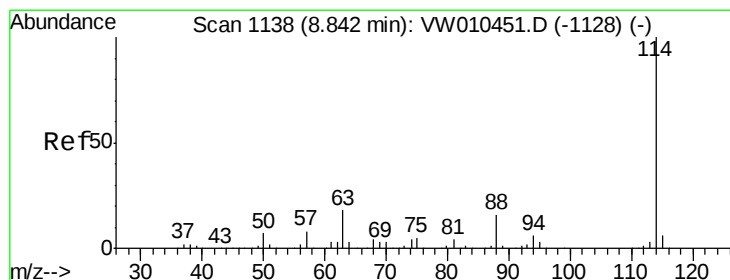
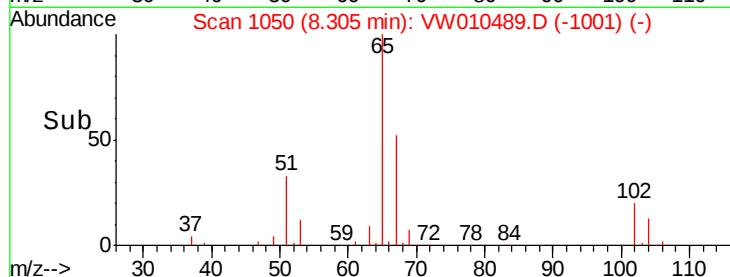
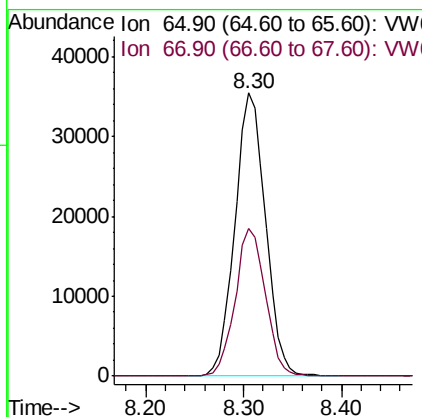
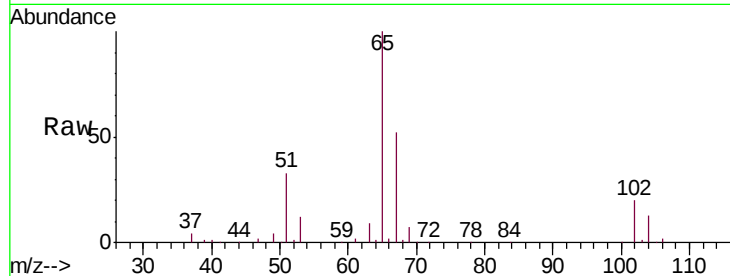




#33  
 1,2-Dichloroethane-d4  
 Concen: 64.702 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW010489.D  
 Acq: 21 May 2019 16:00

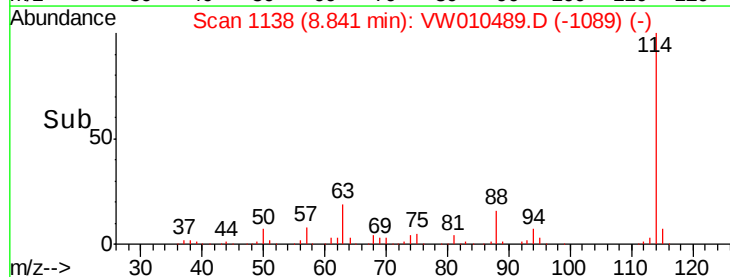
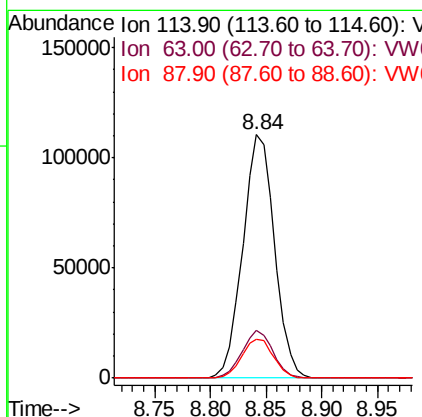
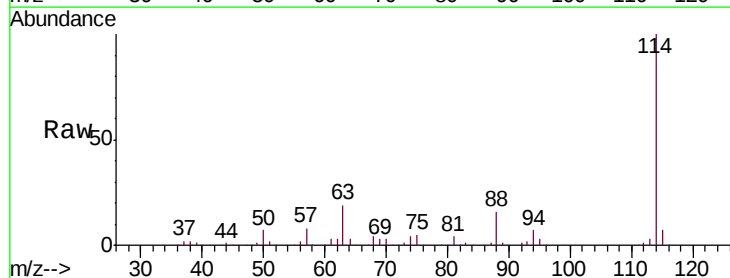
Instrument :  
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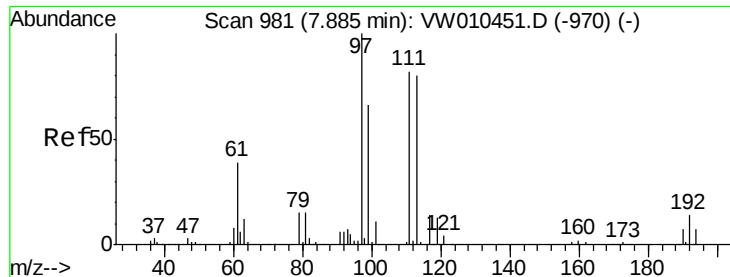
Tgt Ion: 65 Resp: 77036  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 0.0 103.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW010489.D  
 Acq: 21 May 2019 16:00

Tgt Ion: 114 Resp: 218726  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 36.0  
 88 15.9 0.0 32.0

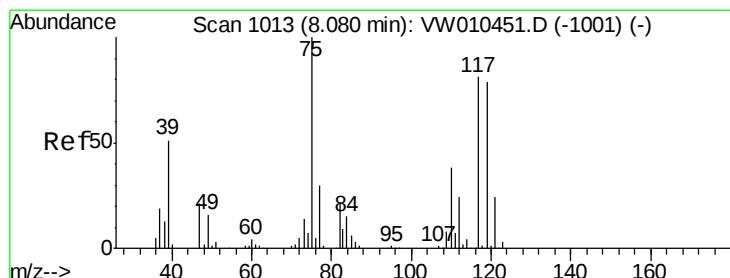
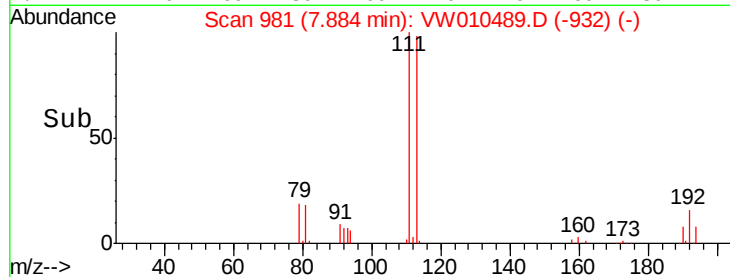
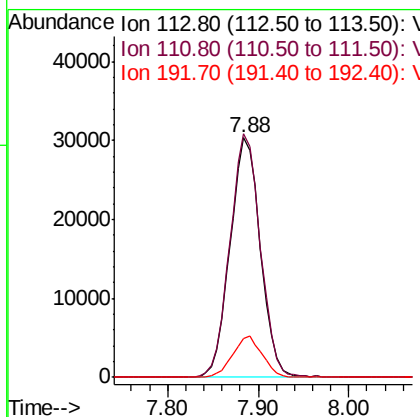
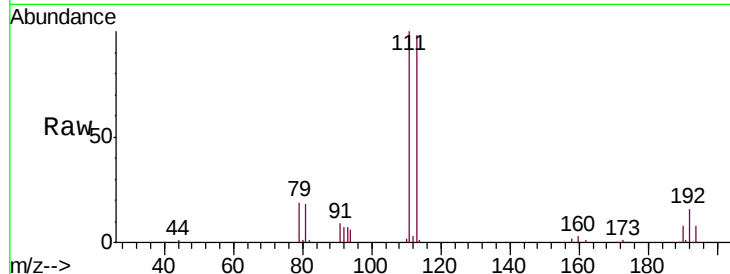




#35  
 Dibromofluoromethane  
 Concen: 52.980 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW010489.D  
 Acq: 21 May 2019 16:00

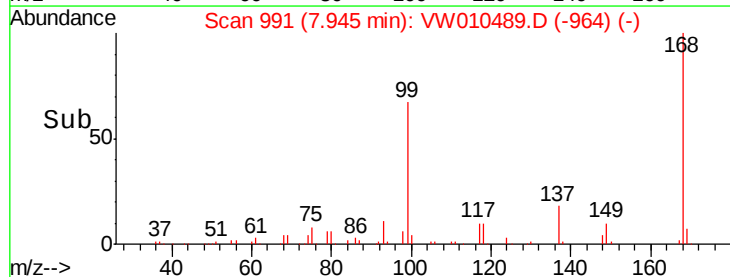
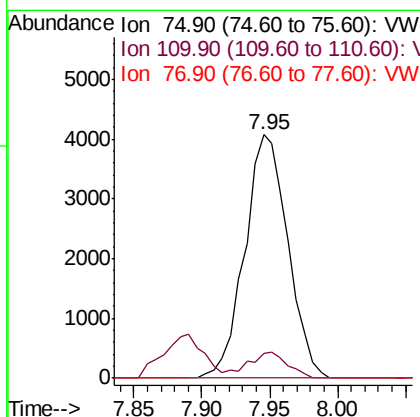
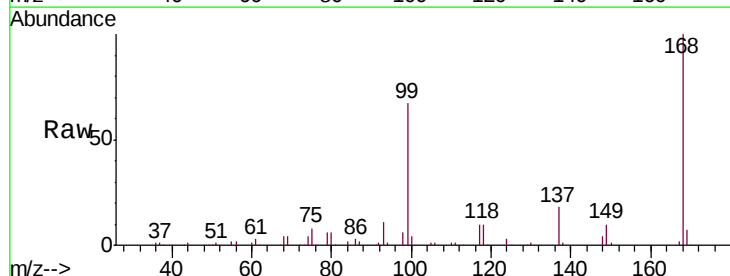
Instrument :  
 MSVOA\_W  
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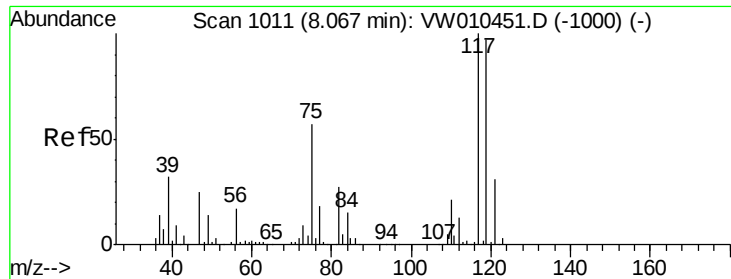
Tgt Ion:113 Resp: 70314  
 Ion Ratio Lower Upper  
 113 100  
 111 101.9 82.2 123.4  
 192 16.7 14.3 21.5



#36  
 1,1-Dichloropropene  
 Concen: 4.424 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW010489.D  
 Acq: 21 May 2019 16:00

Tgt Ion: 75 Resp: 9014  
 Ion Ratio Lower Upper  
 75 100  
 110 10.0 19.2 57.6#  
 77 0.0 25.2 37.8#

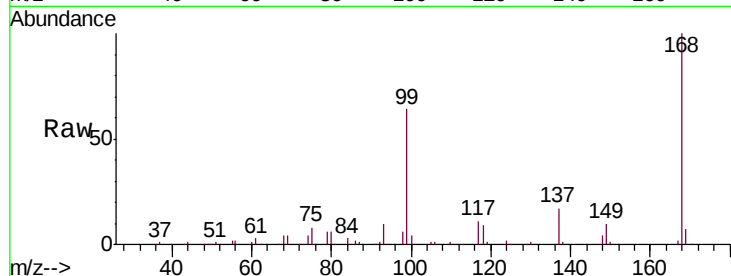




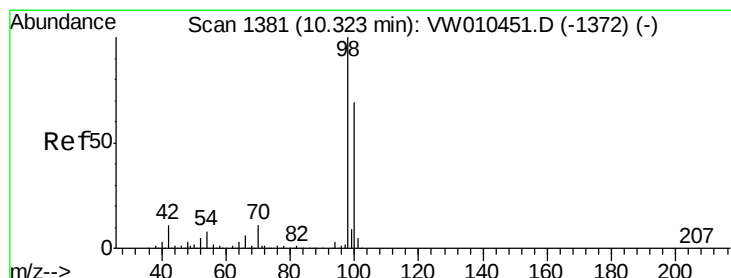
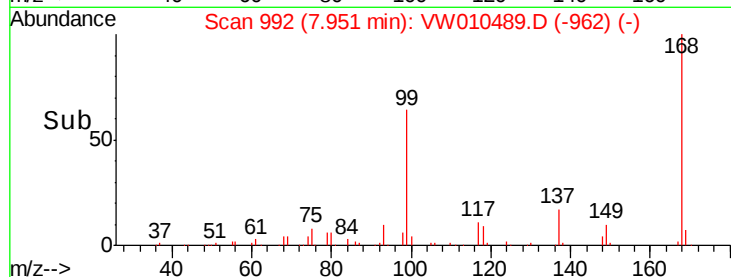
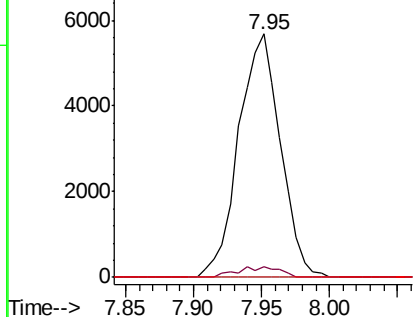
#38  
Carbon Tetrachloride  
Concen: 5.548 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW010489.D  
Acq: 21 May 2019 16:00

Instrument :  
MSVOA\_W  
ClientSampleId :  
BP-VPB202-GW-763-765

Tgt Ion: 117 Resp: 12194  
Ion Ratio Lower Upper  
117 100  
119 4.6 77.4 116.0#  
121 0.0 25.0 37.6#

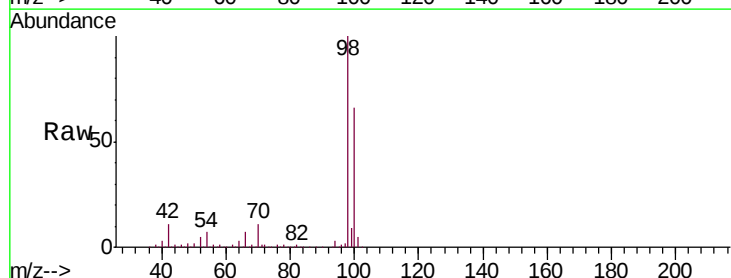


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

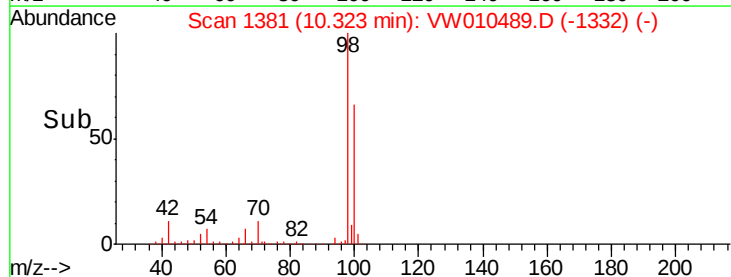
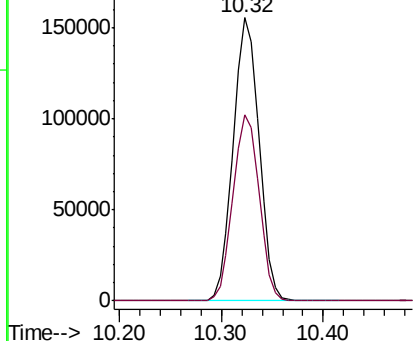


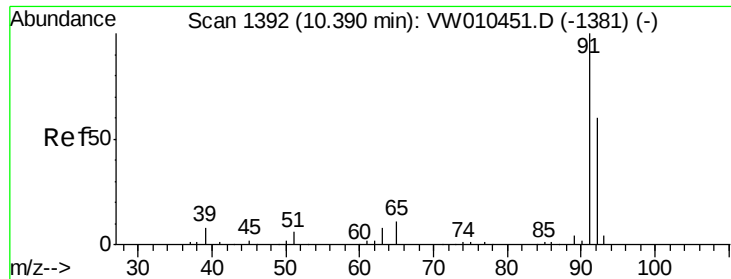
#50  
Toluene-d8  
Concen: 53.661 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW010489.D  
Acq: 21 May 2019 16:00

Tgt Ion: 98 Resp: 272071  
Ion Ratio Lower Upper  
98 100  
100 66.7 53.7 80.5



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





#52

Toluene

Concen: 2.061 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010489.D

Acq: 21 May 2019 16:00

Instrument :

MSVOA\_W

ClientSampleId :

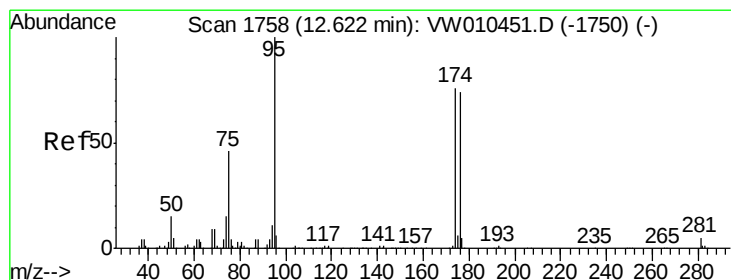
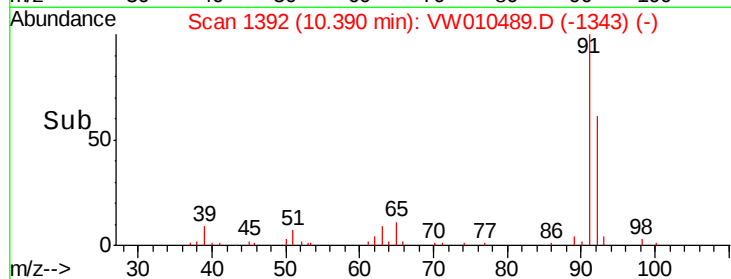
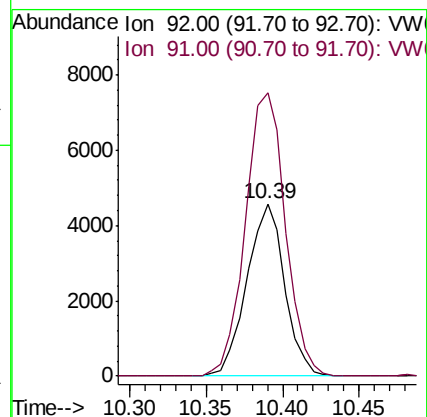
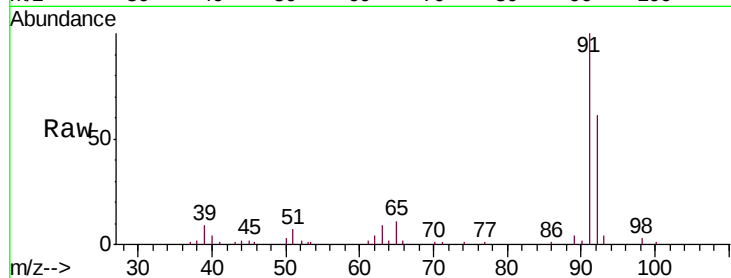
BP-VPB202-GW-763-765

Tgt Ion: 92 Resp: 7838

Ion Ratio Lower Upper

92 100

91 173.9 135.4 203.0



#62

4-Bromofluorobenzene

Concen: 50.789 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010489.D

Acq: 21 May 2019 16:00

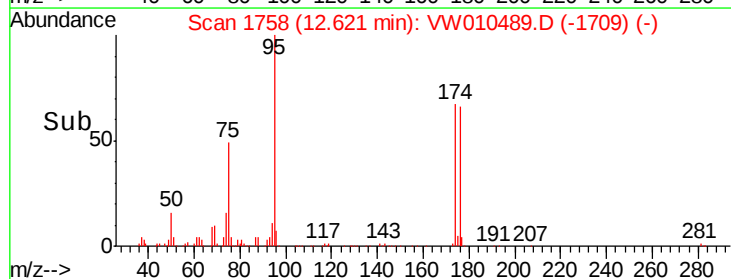
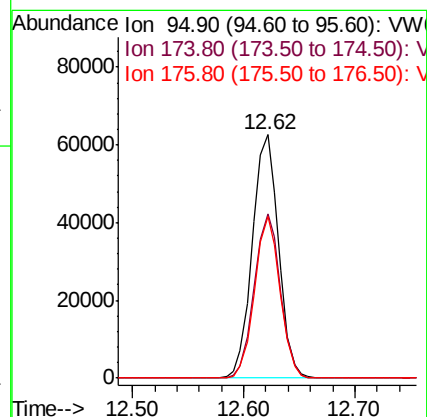
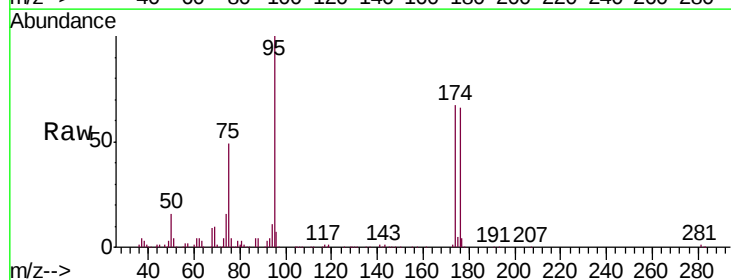
Tgt Ion: 95 Resp: 102570

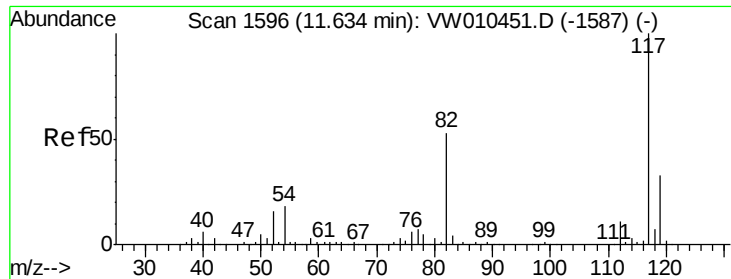
Ion Ratio Lower Upper

95 100

174 67.4 0.0 148.6

176 64.3 0.0 144.2

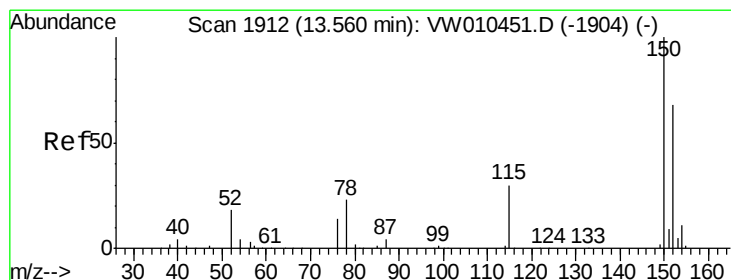
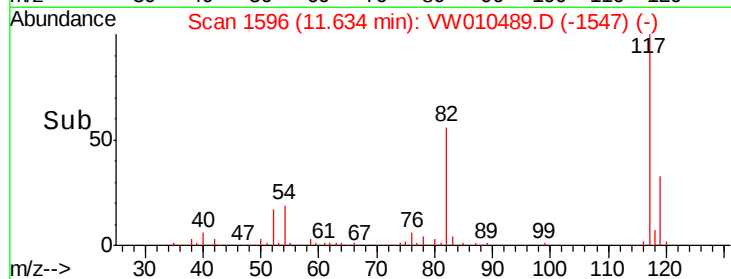
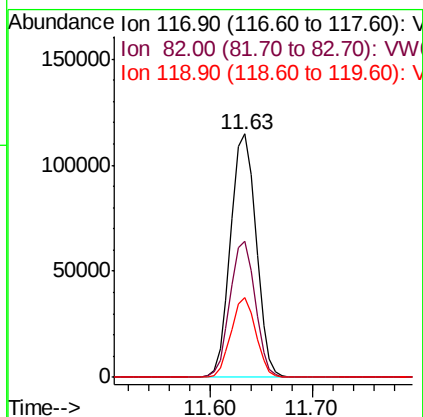
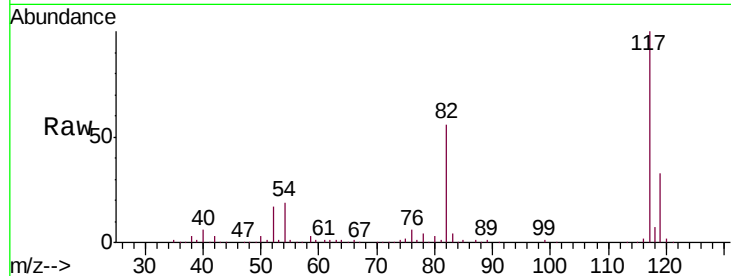




#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.63 min Scan# 1596  
 Delta R.T. -0.00 min  
 Lab File: VW010489.D  
 Acq: 21 May 2019 16:00

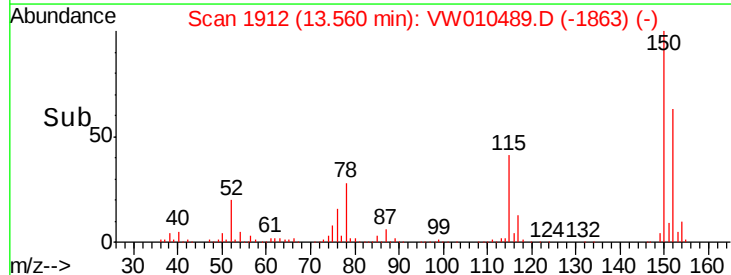
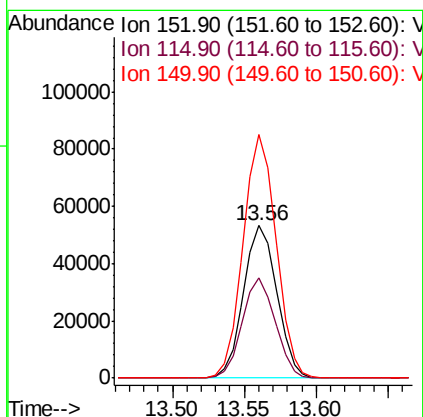
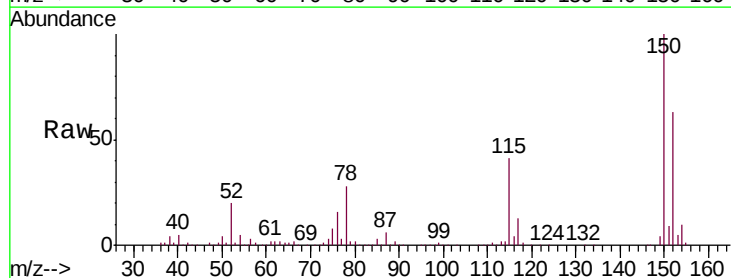
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BP-VPB202-GW-763-765

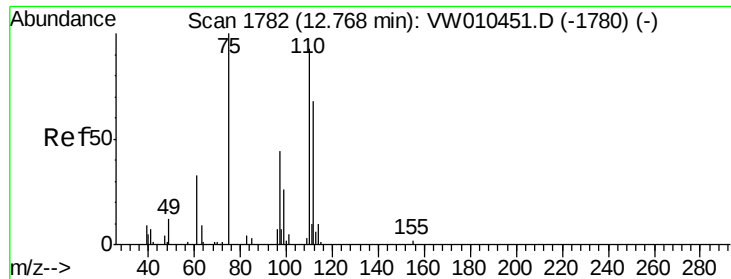
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.9  | 42.8  | 64.2  |
| 119     | 32.6  | 26.3  | 39.5  |



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.56 min Scan# 1912  
 Delta R.T. -0.00 min  
 Lab File: VW010489.D  
 Acq: 21 May 2019 16:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 64.7  | 30.3  | 91.0  |
| 150     | 157.4 | 0.0   | 349.8 |





#76

1,2,3-Trichloropropane

Concen: 57.223 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010489.D

Acq: 21 May 2019 16:00

Instrument :

MSVOA\_W

ClientSampleId :

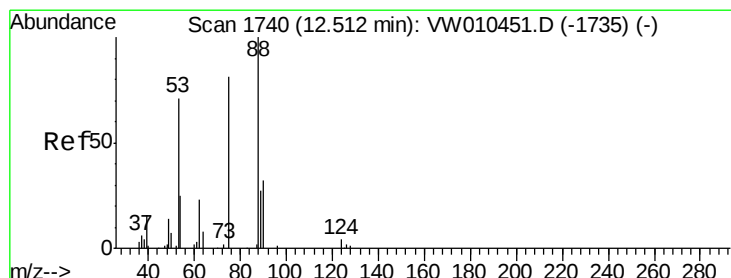
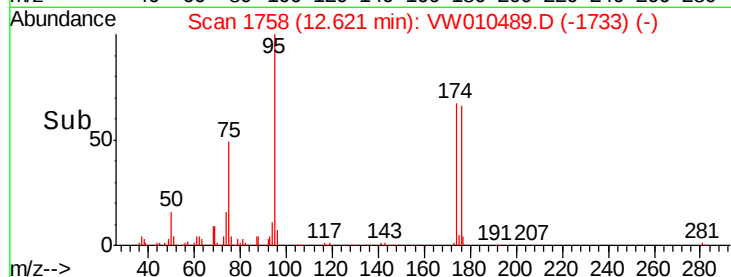
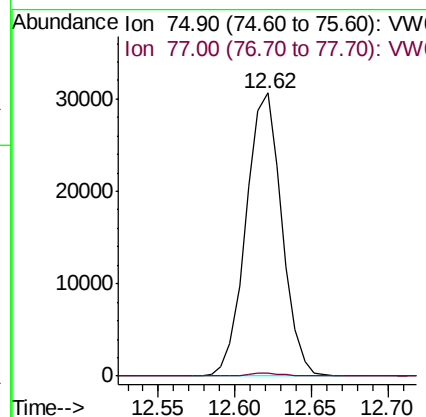
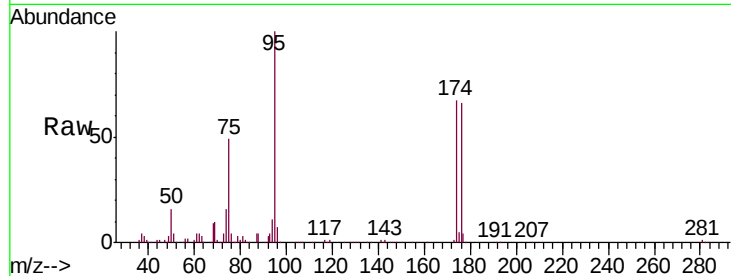
BP-VPB202-GW-763-765

Tgt Ion: 75 Resp: 49794

Ion Ratio Lower Upper

75 100

77 1.1 170.0 510.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 119.426 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010489.D

Acq: 21 May 2019 16:00

Tgt Ion: 75 Resp: 49794

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.8#

89 0.0 39.5 59.3#

