

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW061019\  
 Data File : VW010755.D  
 Acq On : 10 Jun 2019 19:49  
 Operator : SY/VA  
 Sample : K3273-05  
 Misc : 5.08G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-4 1.0-1.5 060719

Quant Time: Jun 11 05:28:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W060419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 05 03:21:19 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 202824   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 358910   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 315269   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 138933   | 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   | 146160   | 61.14 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 122.28% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 106211   | 54.52 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 109.04% |          |
| 50) Toluene-d8              | 10.32 | 98   | 466655   | 54.63 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 109.26% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 166440   | 53.54 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 107.08% |          |

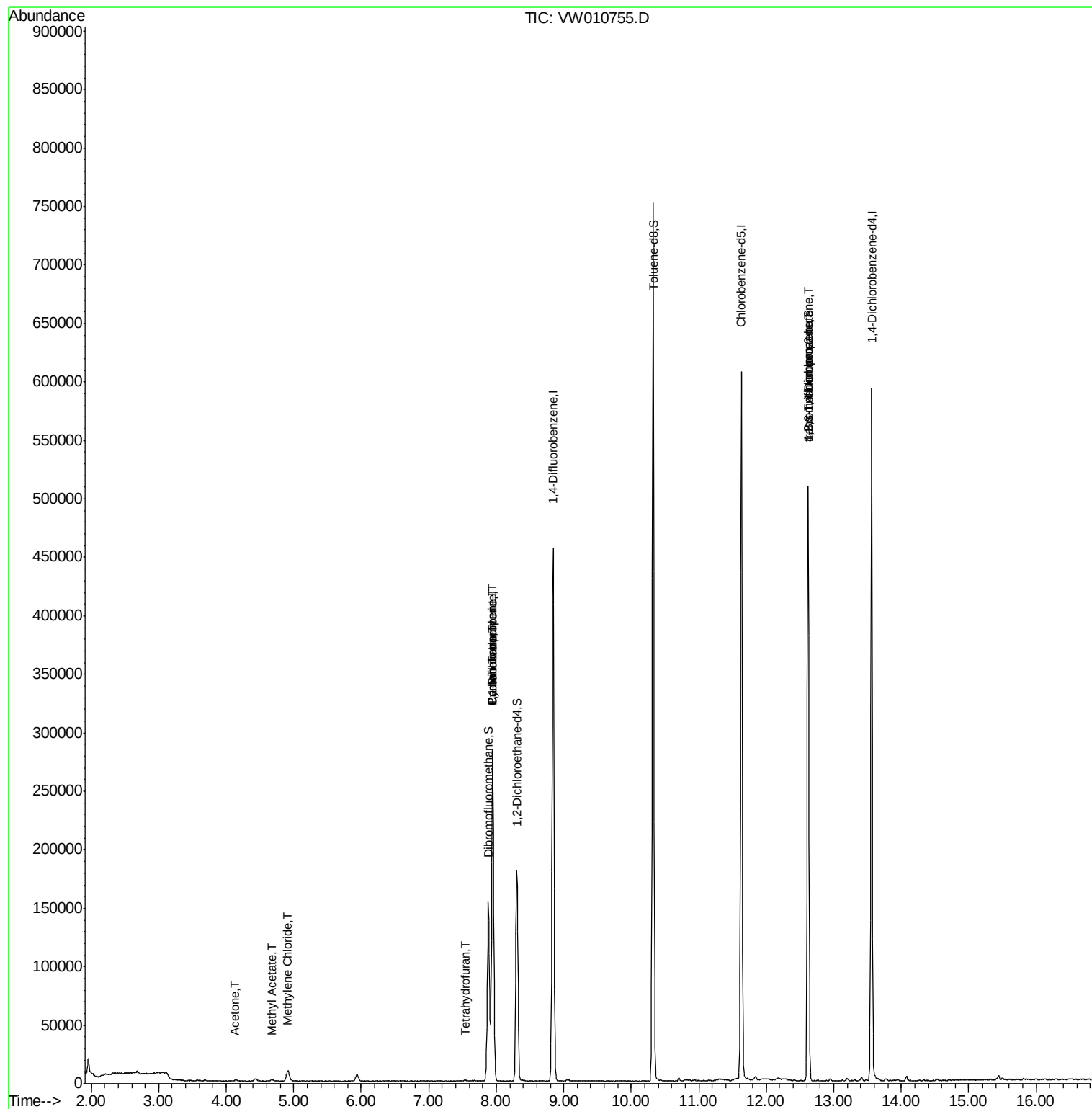
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 4.14  | 43   | 2173     | 3.392   | ug/l # | 88     |
| 18) Methyl Acetate             | 4.68  | 43   | 3200     | 2.321   | ug/l # | 91     |
| 20) Methylene Chloride         | 4.92  | 84   | 6229     | 2.772   | ug/l # | 96     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 1102     | 1.972   | ug/l # | 87     |
| 31) Cyclohexane                | 7.95  | 56   | 5468     | 1.134   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 17859    | 4.861   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 20351    | 6.417   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 90114    | 61.765  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 90114    | 141.956 | ug/l # | 5      |

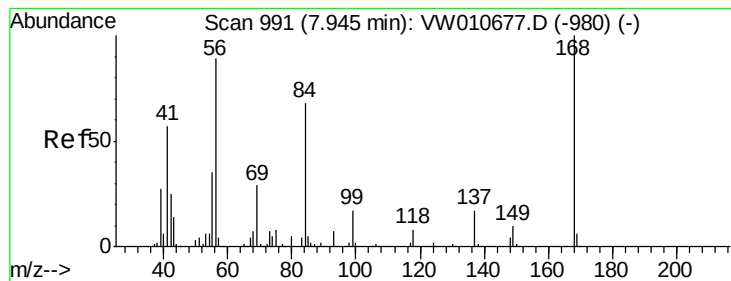
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW061019\  
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Instrument :  
MSVOA\_W  
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SB-4\_1.0-1.5\_060719

Quant Time: Jun 11 05:28:20 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W060419S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 05 03:21:19 2019  
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: VW010755.D

Acq: 10 Jun 2019 19:49

Instrument :

MSVOA\_W

ClientSampleId :

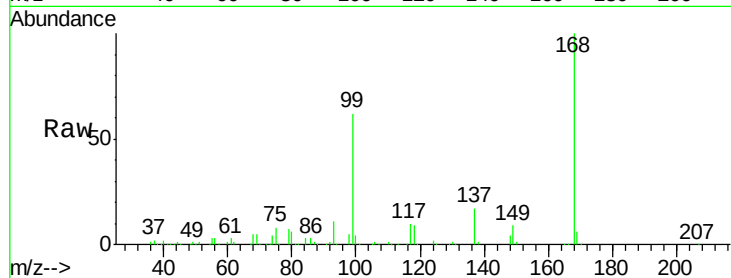
SB-4 1.0-1.5 060719

Tgt Ion: 168 Resp: 202824

Ion Ratio Lower Upper

168 100

99 61.8 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

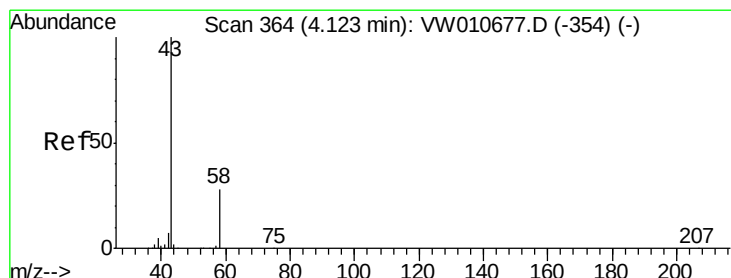
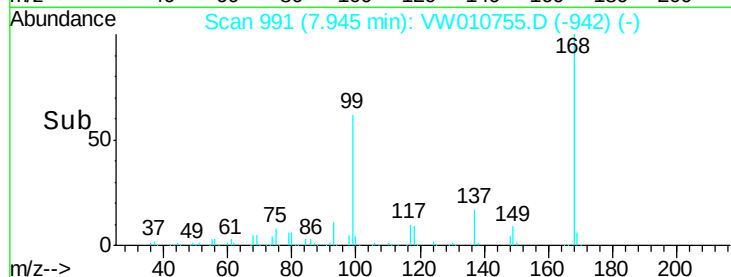
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 3.392 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW010755.D

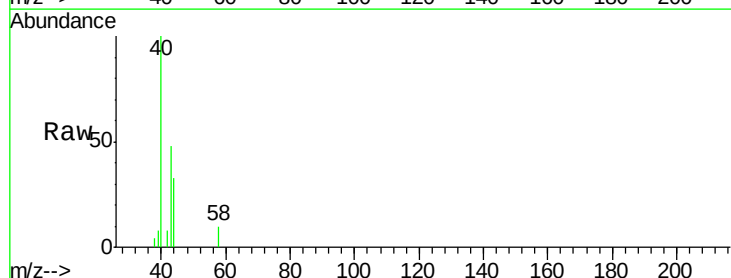
Acq: 10 Jun 2019 19:49

Tgt Ion: 43 Resp: 2173

Ion Ratio Lower Upper

43 100

58 21.2 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.14

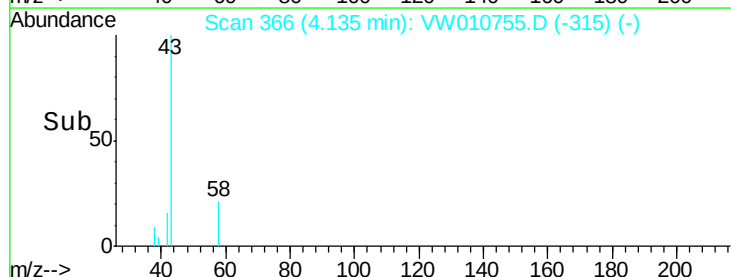
600

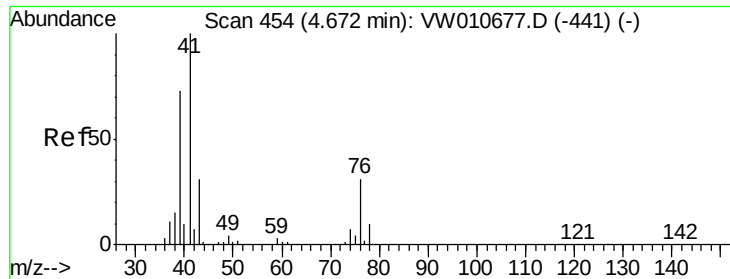
400

200

0

Time-->

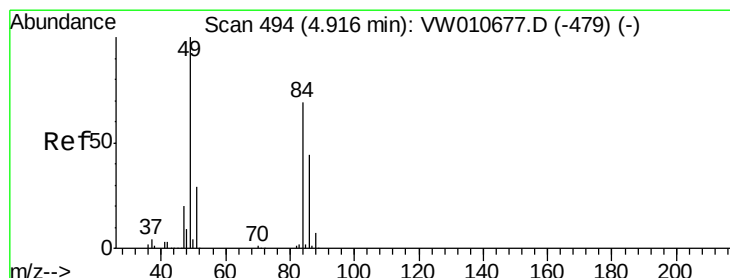
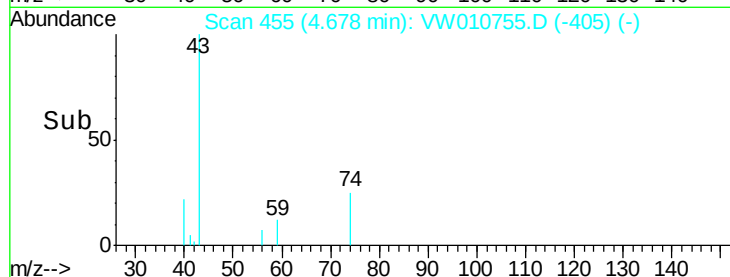
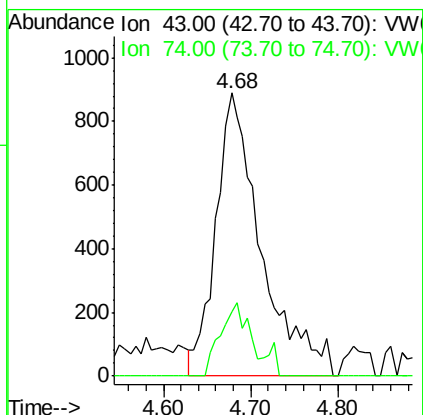
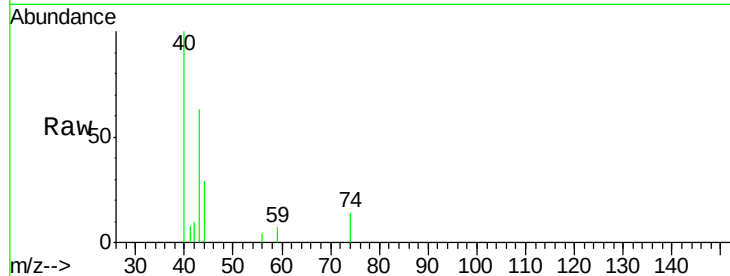




#18  
Methyl Acetate  
Concen: 2.321 ug/l  
RT: 4.68 min Scan# 455  
Delta R.T. 0.01 min  
Lab File: VW010755.D  
Acq: 10 Jun 2019 19:49

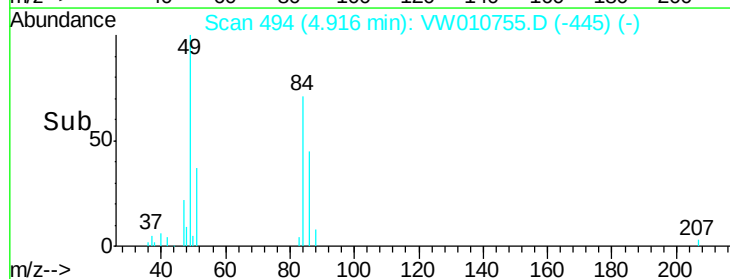
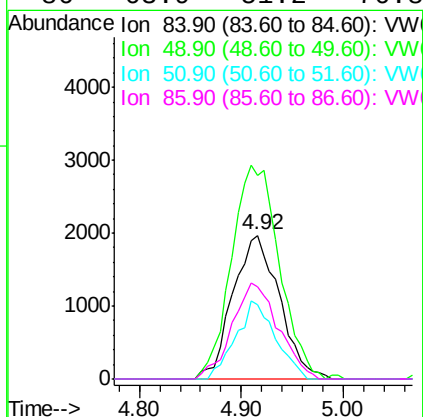
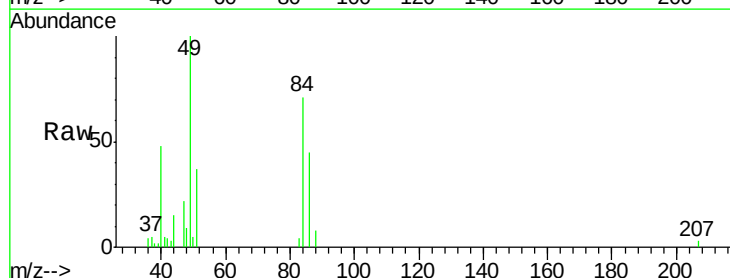
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-4 1.0-1.5 060719

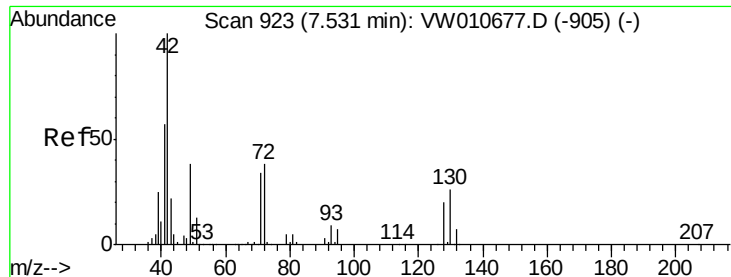
Tgt Ion: 43 Resp: 3200  
Ion Ratio Lower Upper  
43 100  
74 16.7 16.7 25.1#



#20  
Methylene Chloride  
Concen: 2.772 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW010755.D  
Acq: 10 Jun 2019 19:49

Tgt Ion: 84 Resp: 6229  
Ion Ratio Lower Upper  
84 100  
49 141.8 116.7 175.1  
51 52.0 34.2 51.2#  
86 63.9 51.2 76.8

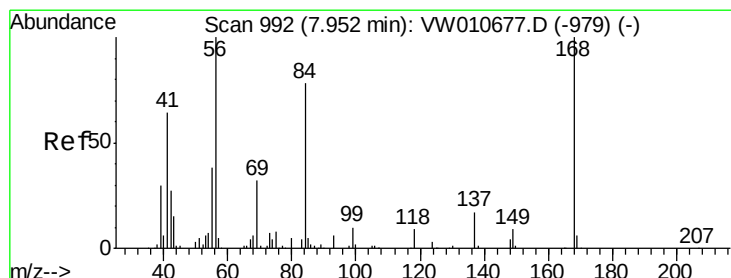
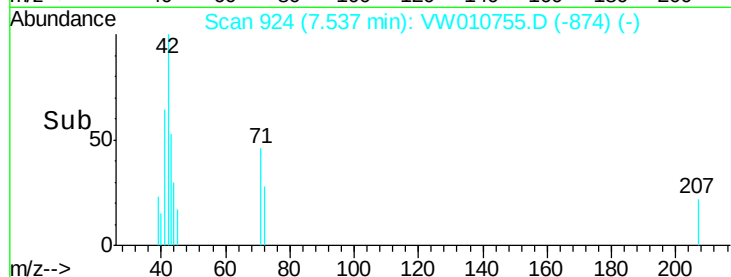
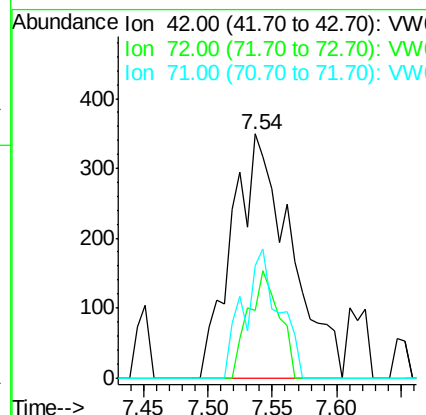
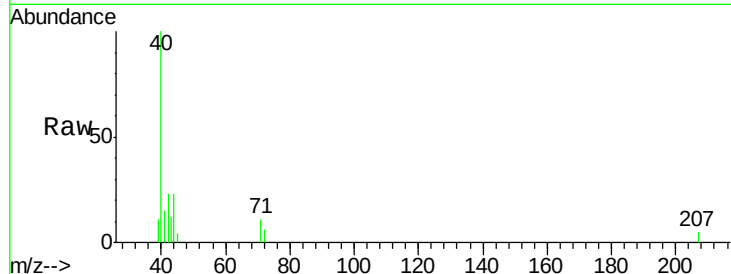




#29  
Tetrahydrofuran  
Concen: 1.972 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. 0.01 min  
Lab File: VW010755.D  
Acq: 10 Jun 2019 19:49

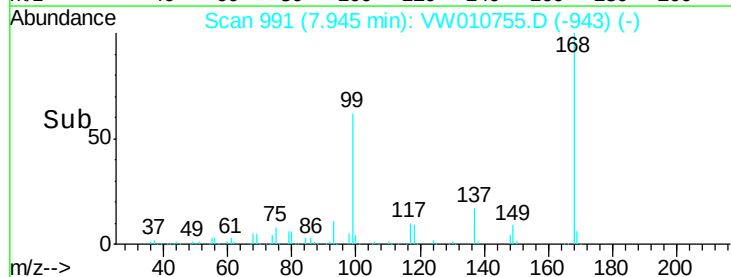
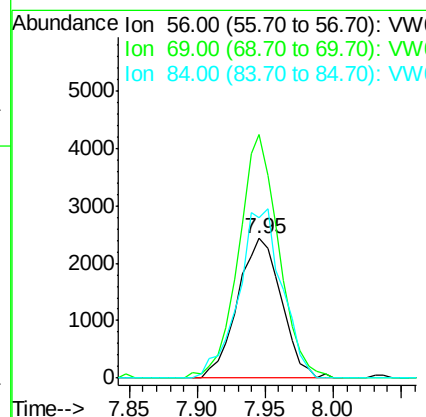
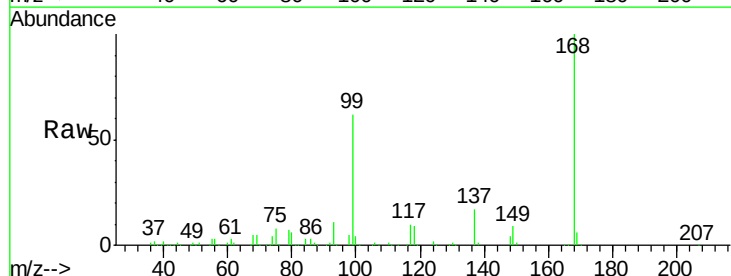
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-4 1.0-1.5 060719

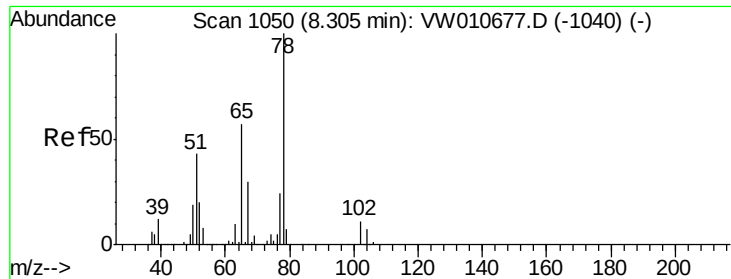
Tgt Ion: 42 Resp: 1102  
Ion Ratio Lower Upper  
42 100  
72 22.8 28.7 43.1#  
71 31.7 26.6 39.8



#31  
Cyclohexane  
Concen: 1.134 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW010755.D  
Acq: 10 Jun 2019 19:49

Tgt Ion: 56 Resp: 5468  
Ion Ratio Lower Upper  
56 100  
69 174.4 25.2 37.8#  
84 114.7 62.2 93.2#

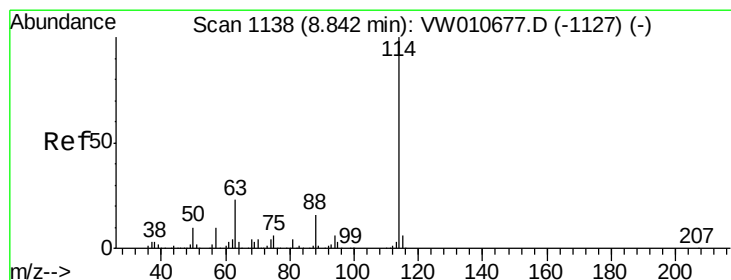
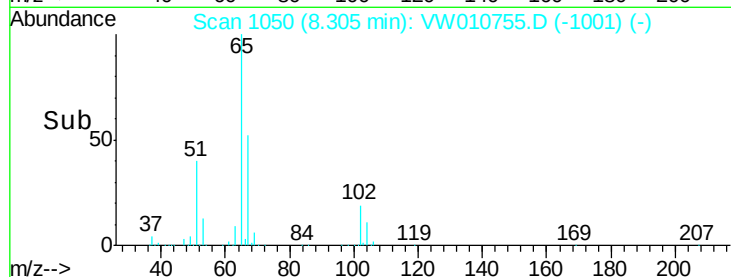
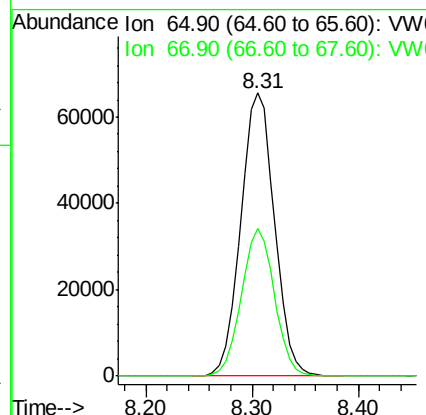
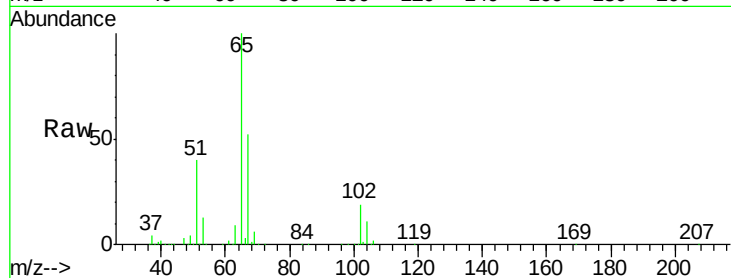




#33  
 1,2-Dichloroethane-d4  
 Concen: 61.139 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW010755.D  
 Acq: 10 Jun 2019 19:49

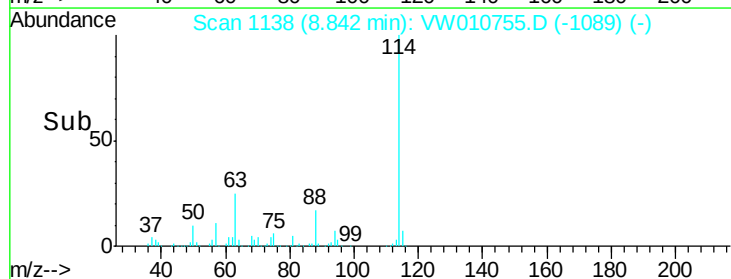
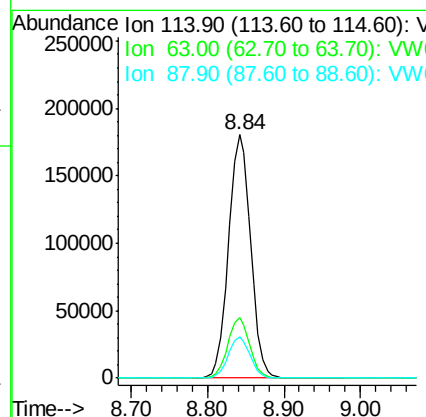
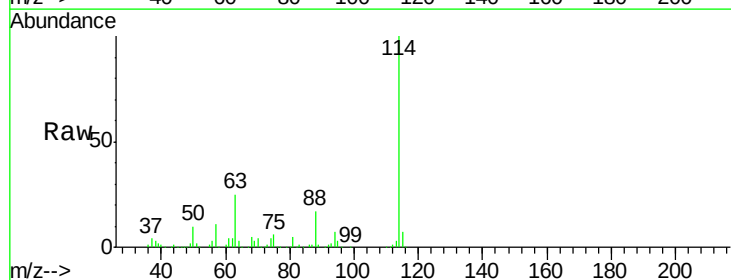
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-4\_1.0-1.5\_060719

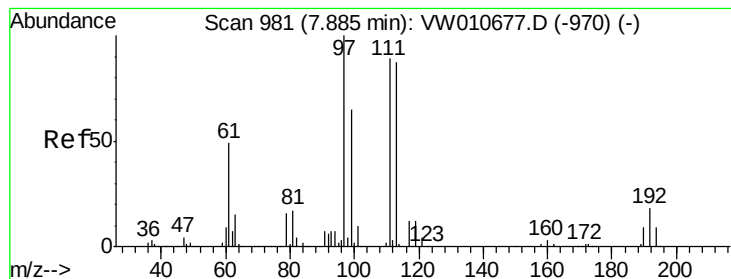
Tgt Ion: 65 Resp: 146160  
 Ion Ratio Lower Upper  
 65 100  
 67 51.1 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW010755.D  
 Acq: 10 Jun 2019 19:49

Tgt Ion: 114 Resp: 358910  
 Ion Ratio Lower Upper  
 114 100  
 63 24.7 0.0 46.4  
 88 17.2 0.0 32.2





#35

Dibromofluoromethane

Concen: 54.521 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW010755.D

Acq: 10 Jun 2019 19:49

Instrument :

MSVOA\_W

ClientSampleId :

SB-4 1.0-1.5 060719

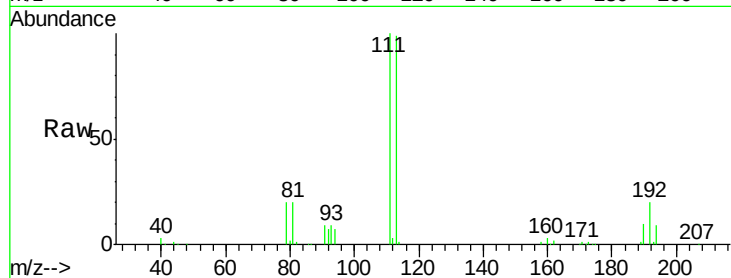
Tgt Ion:113 Resp: 106211

Ion Ratio Lower Upper

113 100

111 104.0 82.6 123.8

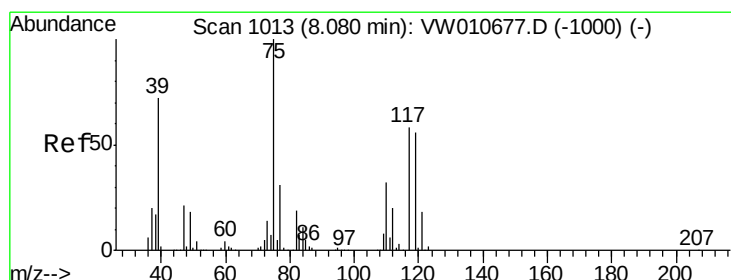
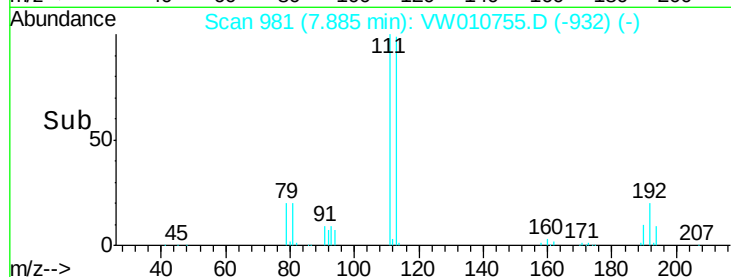
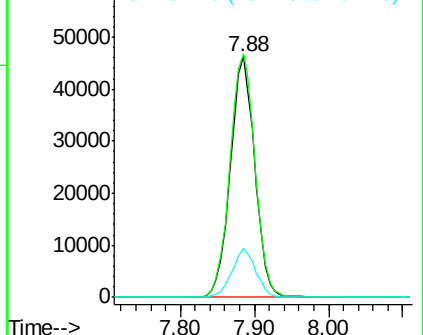
192 19.6 16.4 24.6



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: 4.861 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW010755.D

Acq: 10 Jun 2019 19:49

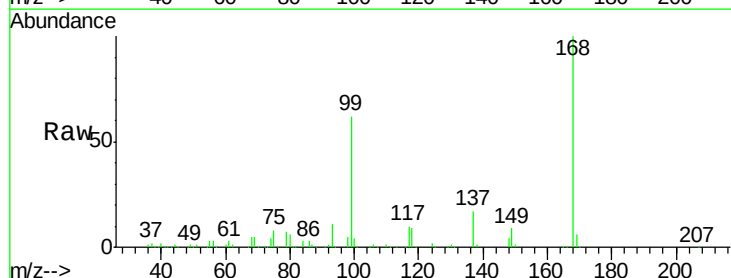
Tgt Ion: 75 Resp: 17859

Ion Ratio Lower Upper

75 100

110 8.6 15.8 47.3#

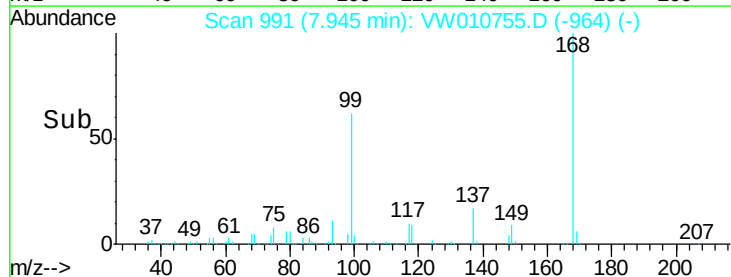
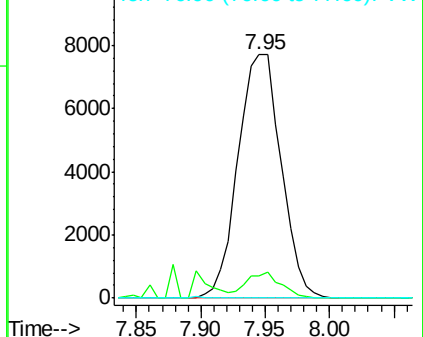
77 0.0 24.7 37.1#

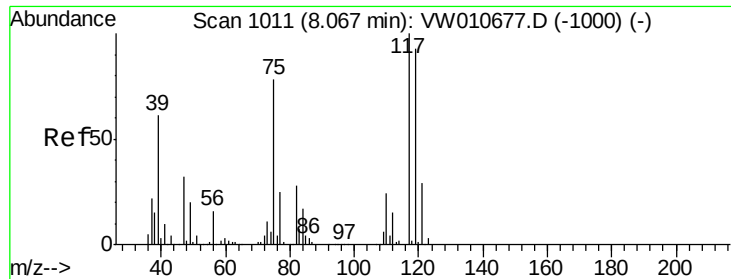


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.417 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW010755.D

Acq: 10 Jun 2019 19:49

Instrument :

MSVOA\_W

ClientSampleId :

SB-4 1.0-1.5 060719

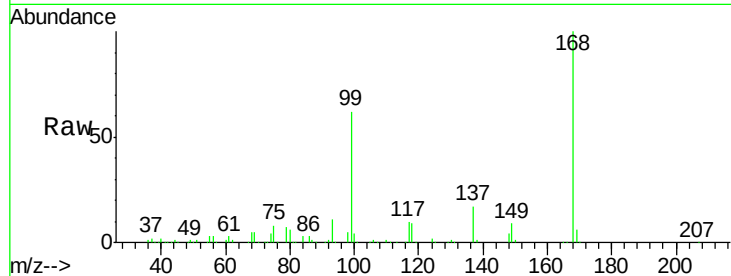
Tgt Ion:117 Resp: 20351

Ion Ratio Lower Upper

117 100

119 3.9 74.2 111.4#

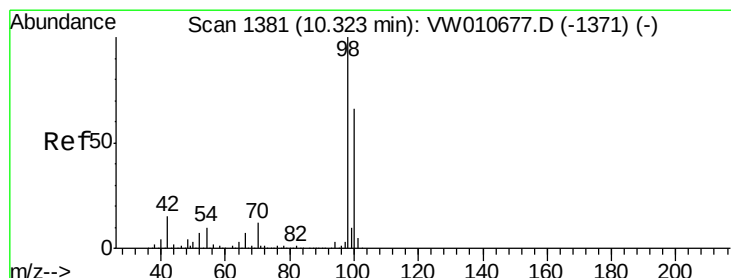
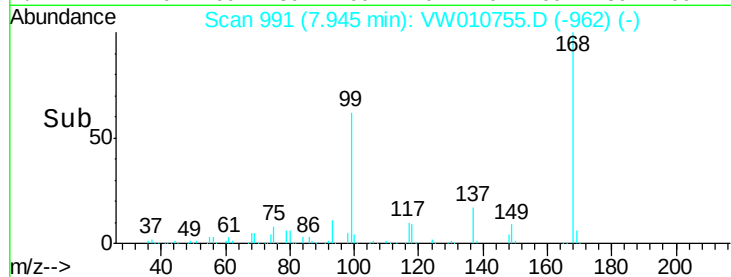
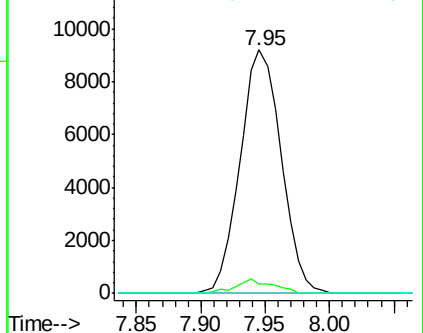
121 0.0 22.9 34.3#



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: 54.627 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW010755.D

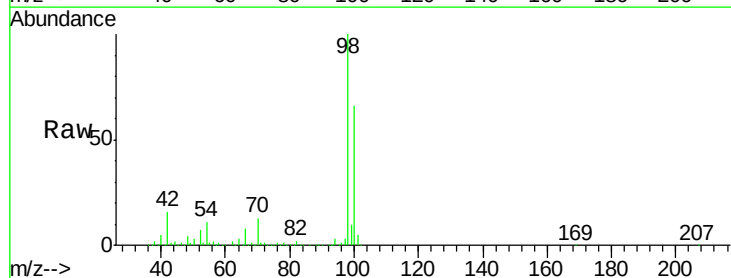
Acq: 10 Jun 2019 19:49

Tgt Ion: 98 Resp: 466655

Ion Ratio Lower Upper

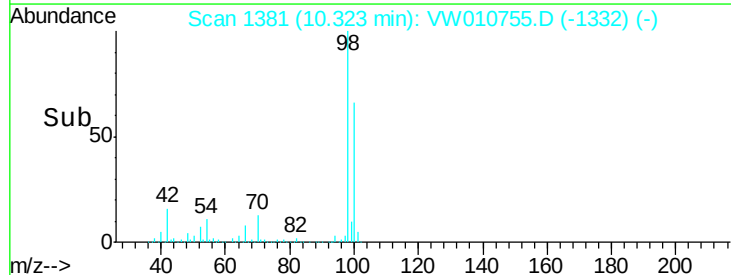
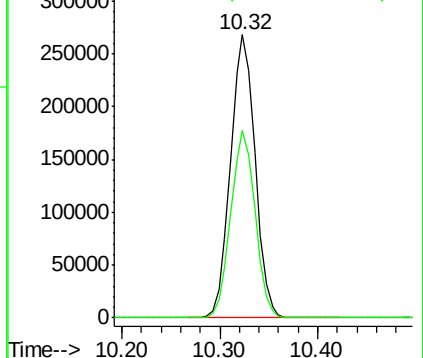
98 100

100 65.7 53.0 79.6

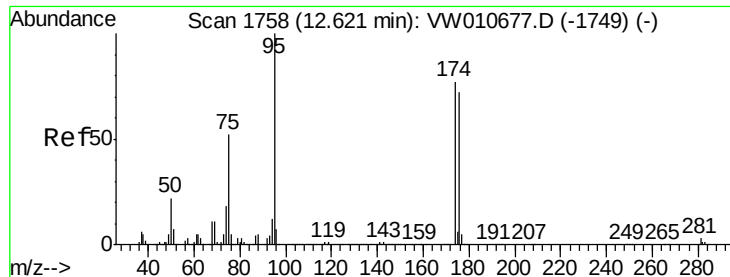


Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW







#62

4-Bromofluorobenzene

Concen: 53.543 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW010755.D

Acq: 10 Jun 2019 19:49

Instrument :

MSVOA\_W

ClientSampleId :

SB-4 1.0-1.5 060719

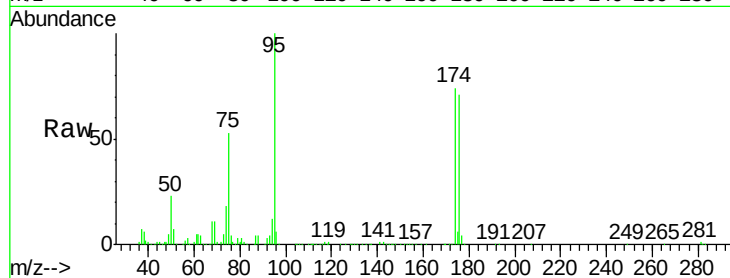
Tgt Ion: 95 Resp: 166440

Ion Ratio Lower Upper

95 100

174 73.2 0.0 150.4

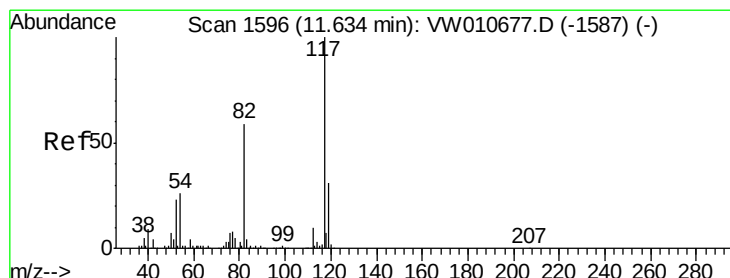
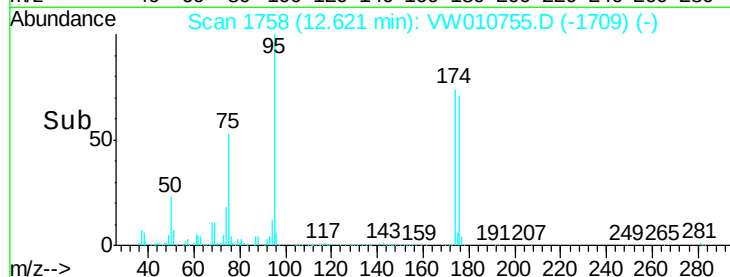
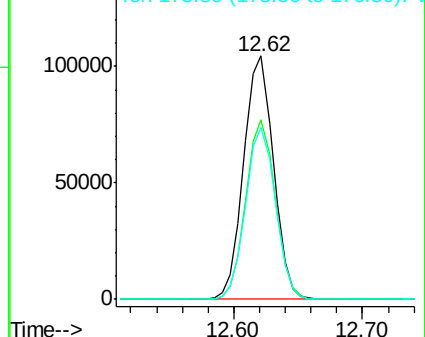
176 70.6 0.0 144.8



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: VW010755.D

Acq: 10 Jun 2019 19:49

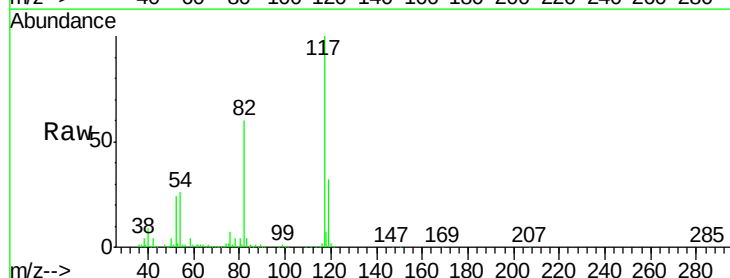
Tgt Ion: 117 Resp: 315269

Ion Ratio Lower Upper

117 100

82 60.0 47.0 70.4

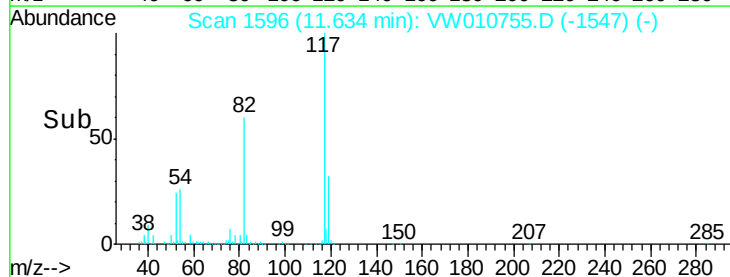
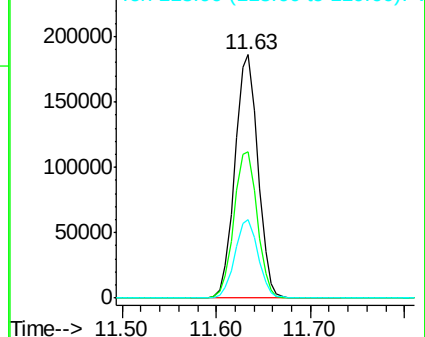
119 32.0 25.1 37.7

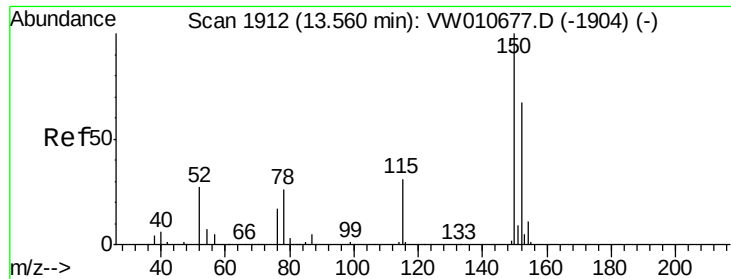


Abundance Ion 116.90 (116.60 to 117.60): VW

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: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW010755.D

Acq: 10 Jun 2019 19:49

Instrument :

MSVOA\_W

ClientSampleId :

SB-4 1.0-1.5 060719

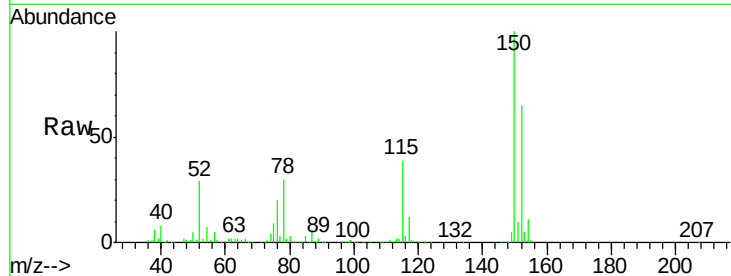
Tgt Ion:152 Resp: 138933

Ion Ratio Lower Upper

152 100

115 61.7 29.8 89.3

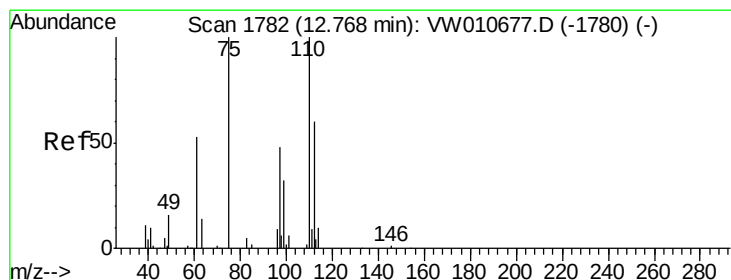
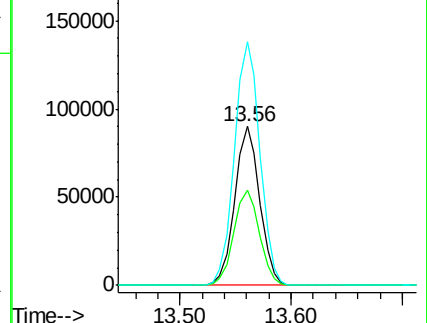
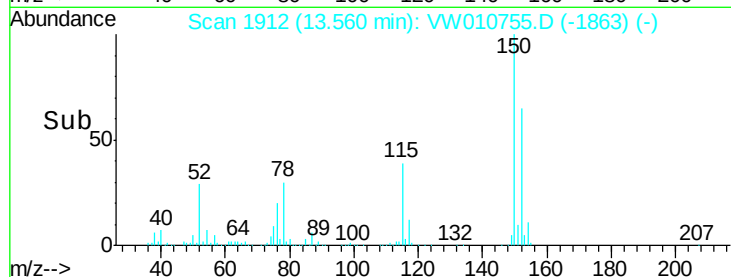
150 157.8 0.0 345.0



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: 61.765 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW010755.D

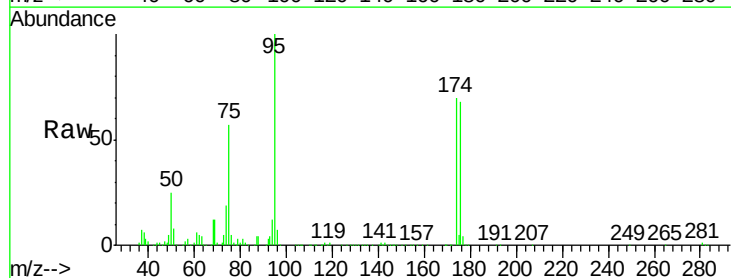
Acq: 10 Jun 2019 19:49

Tgt Ion: 75 Resp: 90114

Ion Ratio Lower Upper

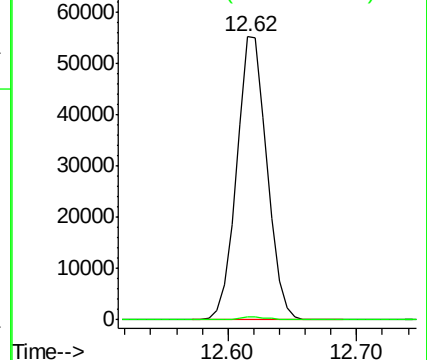
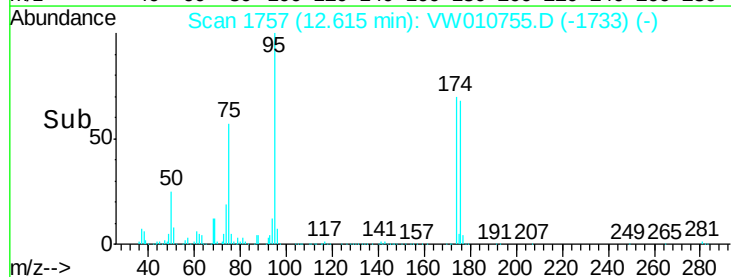
75 100

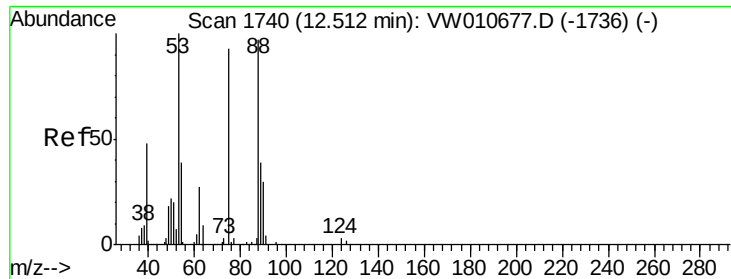
77 1.1 0.0 0.0#



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: 141.956 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW010755.D

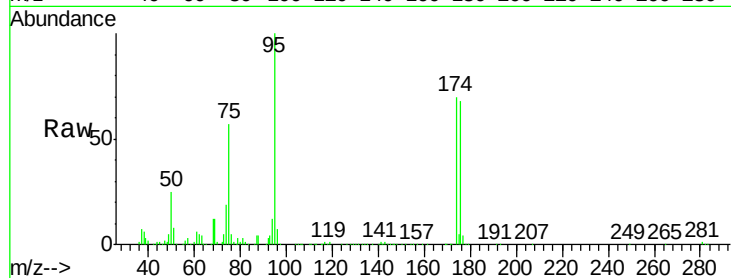
Acq: 10 Jun 2019 19:49

Instrument :

MSVOA\_W

ClientSampleId :

SB-4 1.0-1.5 060719



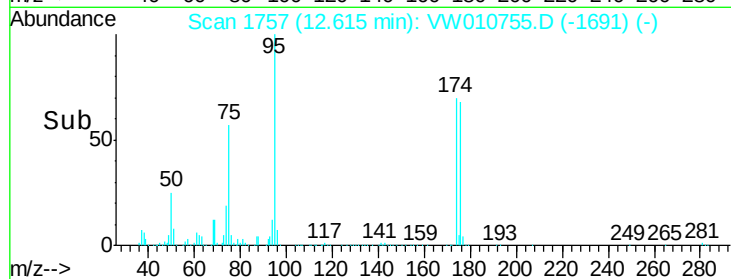
Tgt Ion: 75 Resp: 90114

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 34.6 52.0#



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

