

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122118\  
 Data File : VW007732.D  
 Acq On : 20 Dec 2018 07:41  
 Operator : SY/AP  
 Sample : J6379-08RE  
 Misc : 5.56G/5ML/MSVOA W/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 P001-SS004-1218-01

Quant Time: Dec 20 10:10:54 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  | 76537    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 133036   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 109842   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 44164    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 40232    | 47.96 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.92% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 37542    | 46.26 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.52% |          |
| 50) Toluene-d8              | 10.32 | 98   | 126927   | 41.49 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 82.98% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 42700    | 36.13 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 72.26% |          |

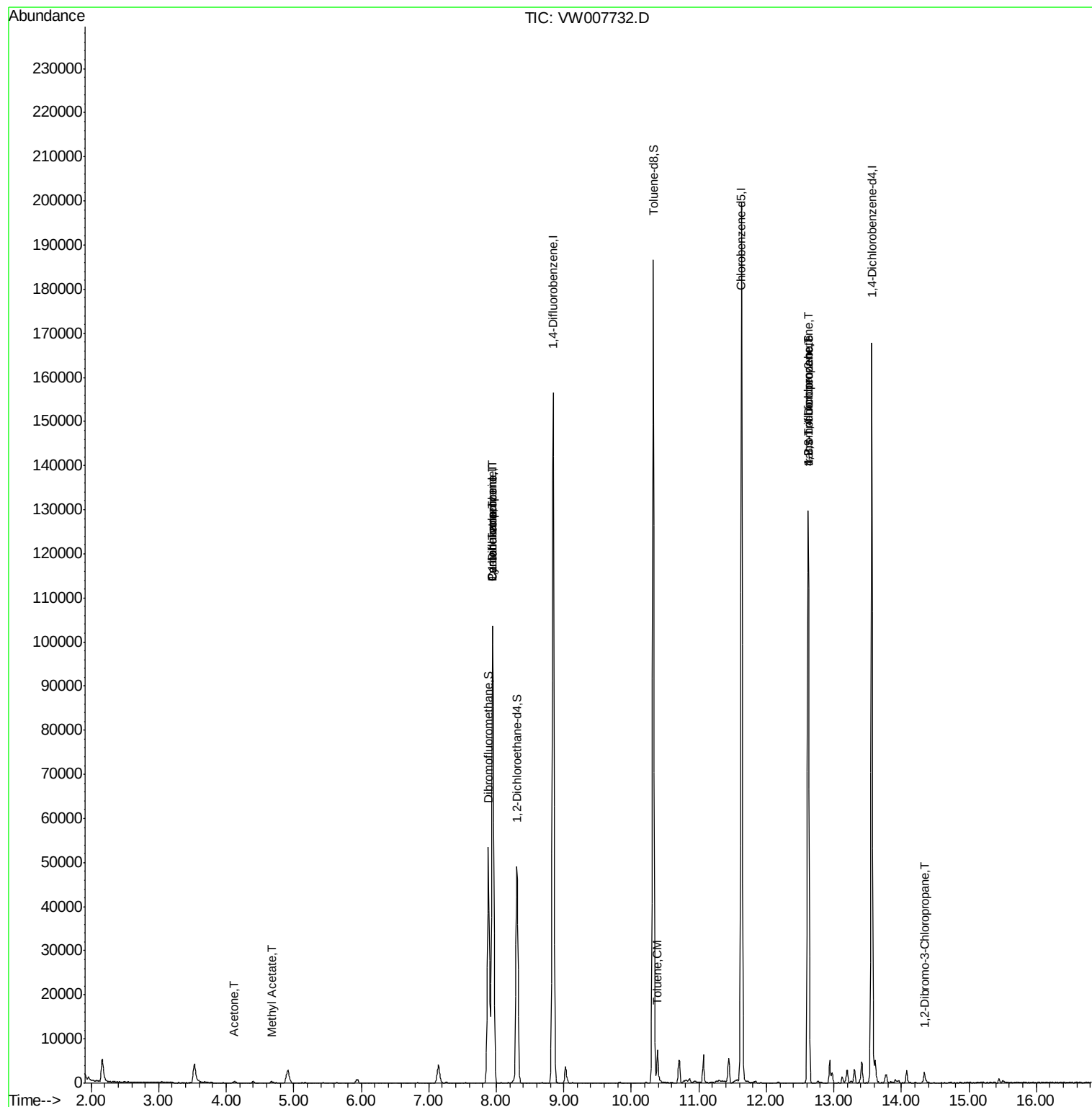
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 4.12  | 43   | 788      | 5.016     | ug/l   | 100    |
| 18) Methyl Acetate             | 4.67  | 43   | 912      | 2.441     | ug/l # | 60     |
| 20) Methylene Chloride         | 4.92  | 84   | 2493     | Below Cal |        | 93     |
| 31) Cyclohexane                | 7.95  | 56   | 1515     | 1.213     | ug/l # | 10     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 5651     | 4.401     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 8301     | 5.489     | ug/l # | 15     |
| 52) Toluene                    | 10.39 | 92   | 3037     | 1.321     | ug/l   | 90     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 22196    | 65.025    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 22196    | 136.492   | ug/l # | 9      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.33 | 75   | 131      | 1.274     | ug/l # | 3      |

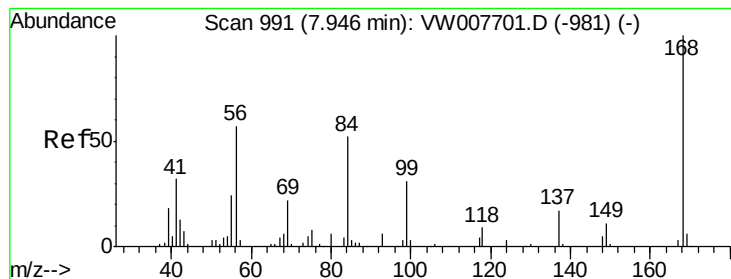
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 992

Delta R.T. 0.01 min

Lab File: VW007732.D

Acq: 20 Dec 2018 07:41

Instrument :

MSVOA\_W

ClientSampleId :

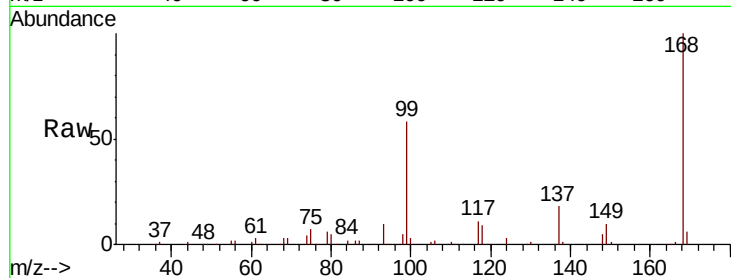
P001-SS004-1218-01

Tot Ion:168 Resp: 76537

Ion Ratio Lower Upper

168 100

99 58.0 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

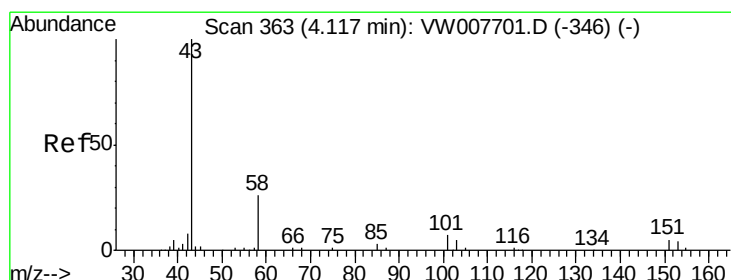
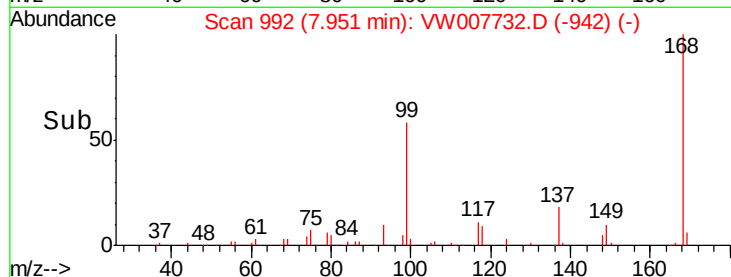
20000

10000

0

7.90 8.00

Time-->



#16

Acetone

Concen: 5.016 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW007732.D

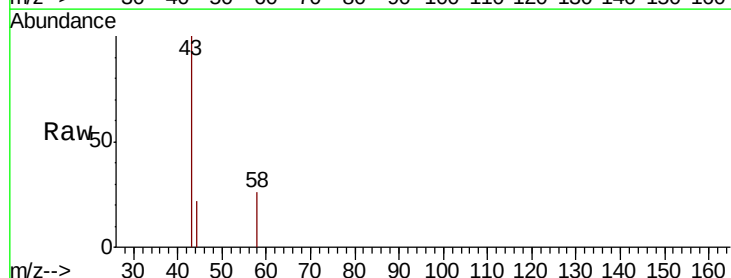
Acq: 20 Dec 2018 07:41

Tgt Ion: 43 Resp: 788

Ion Ratio Lower Upper

43 100

58 26.4 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

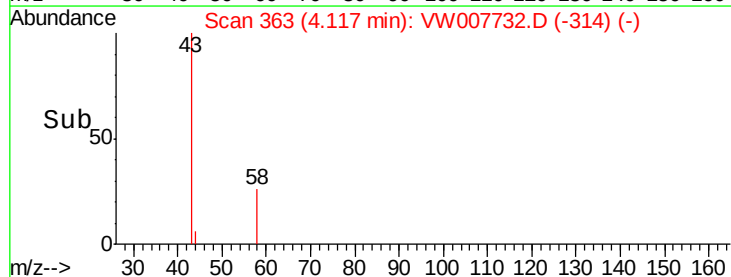
200

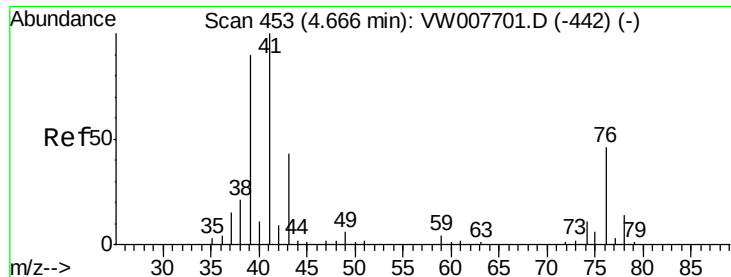
100

0

4.05 4.10 4.15 4.20

Time-->

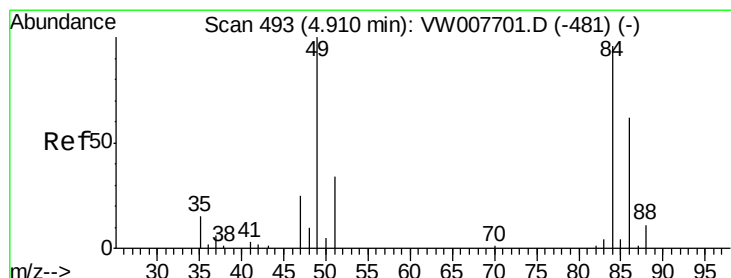
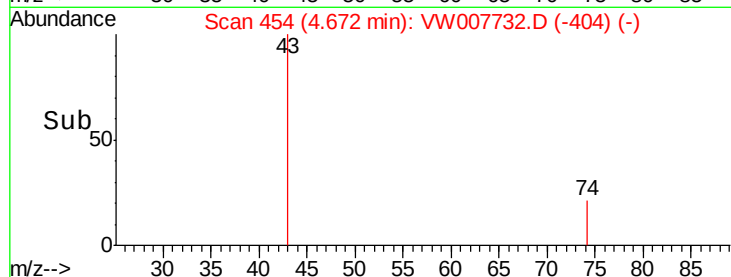
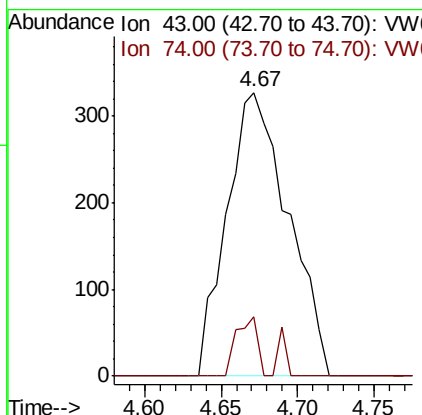
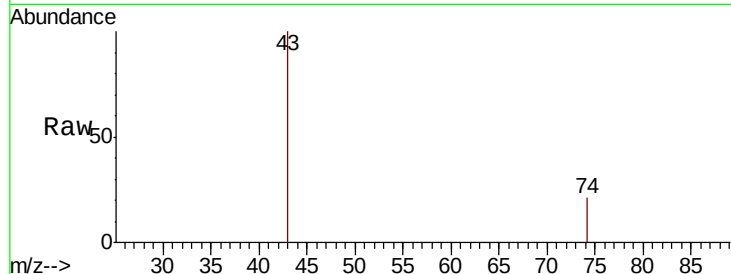




#18  
Methyl Acetate  
Concen: 2.441 ug/l  
RT: 4.67 min Scan# 454  
Delta R.T. 0.01 min  
Lab File: VW007732.D  
Acq: 20 Dec 2018 07:41

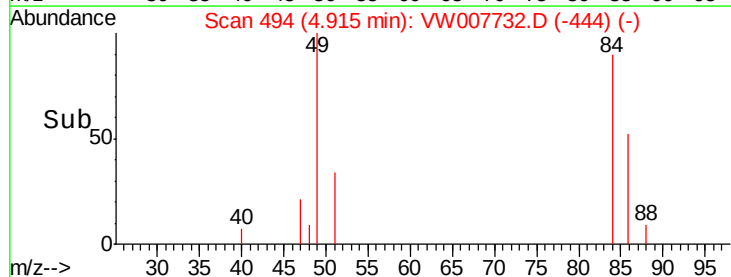
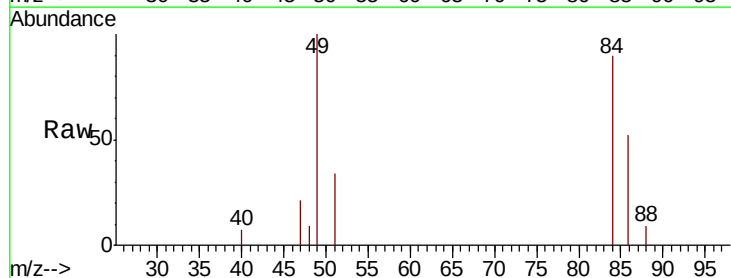
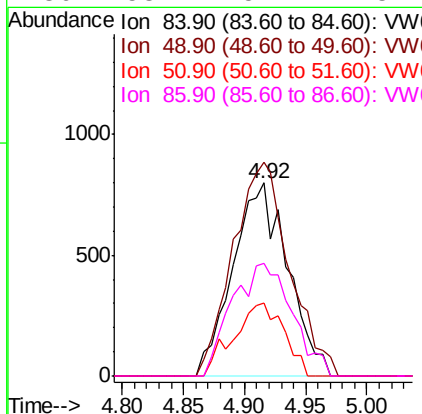
Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS004-1218-01

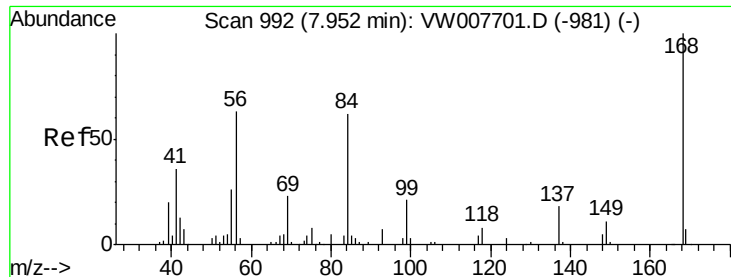
Tot Ion: 43 Resp: 912  
Ion Ratio Lower Upper  
43 100  
74 7.0 22.7 34.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW007732.D  
Acq: 20 Dec 2018 07:41

Tgt Ion: 84 Resp: 2493  
Ion Ratio Lower Upper  
84 100  
49 110.8 83.7 125.5  
51 37.9 28.2 42.2  
86 58.1 52.2 78.2

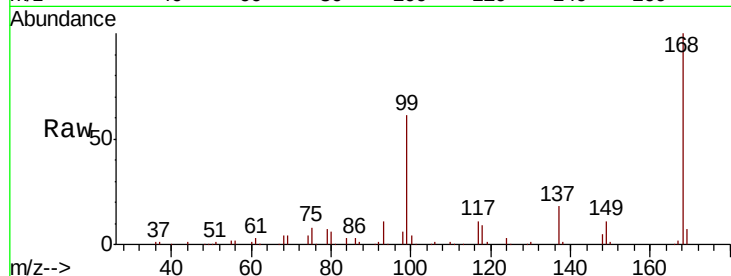




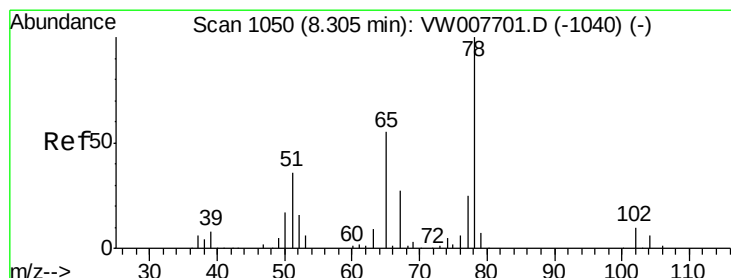
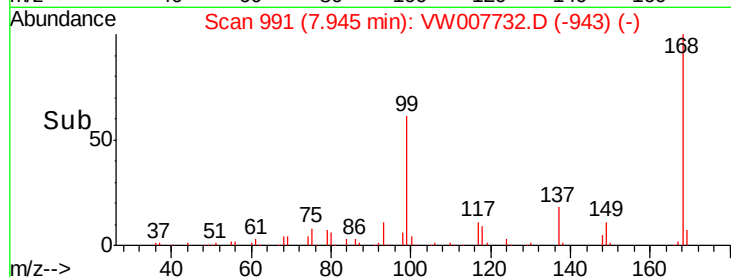
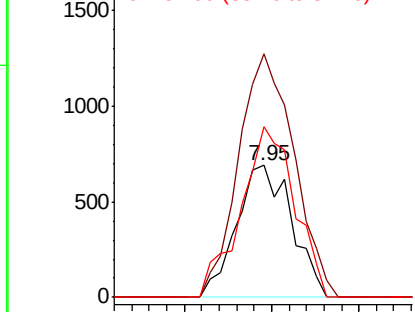
#31  
Cyclohexane  
Concen: 1.213 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW007732.D  
Acq: 20 Dec 2018 07:41

Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS004-1218-01

Tot Ion: 56 Resp: 1515  
Ion Ratio Lower Upper  
56 100  
69 184.4 29.7 44.5#  
84 128.8 78.9 118.3#

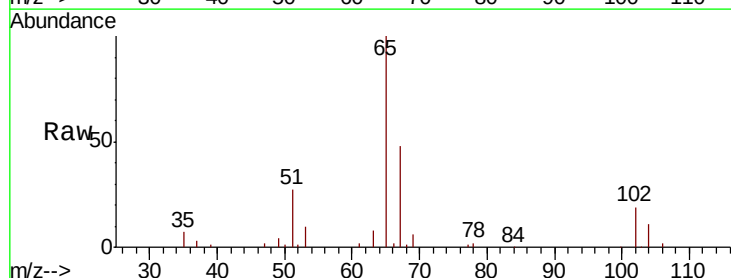


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

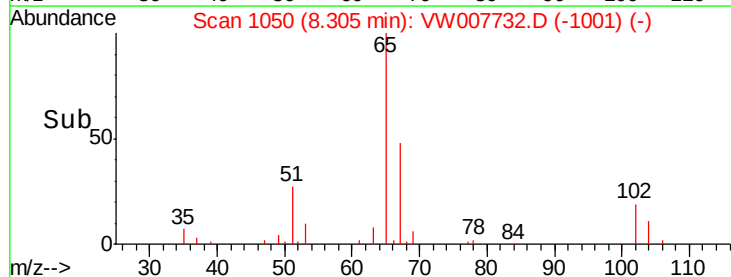
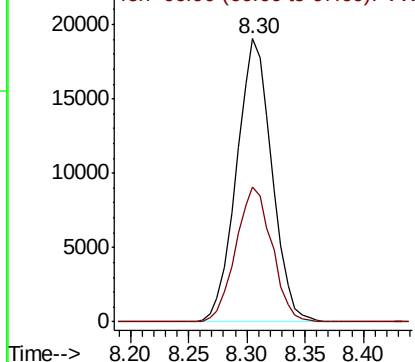


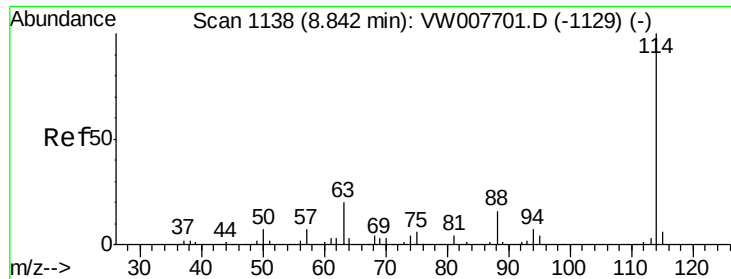
#33  
1,2-Dichloroethane-d4  
Concen: 47.959 ug/l  
RT: 8.30 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW007732.D  
Acq: 20 Dec 2018 07:41

Tgt Ion: 65 Resp: 40232  
Ion Ratio Lower Upper  
65 100  
67 48.7 0.0 100.6



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

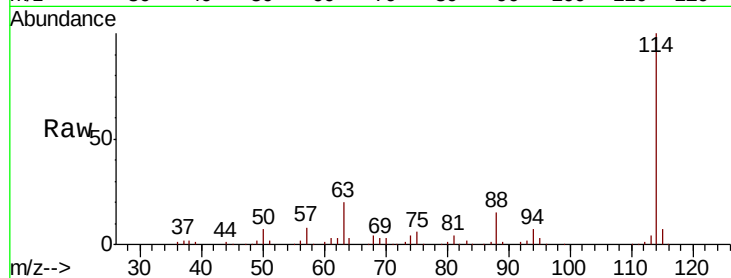




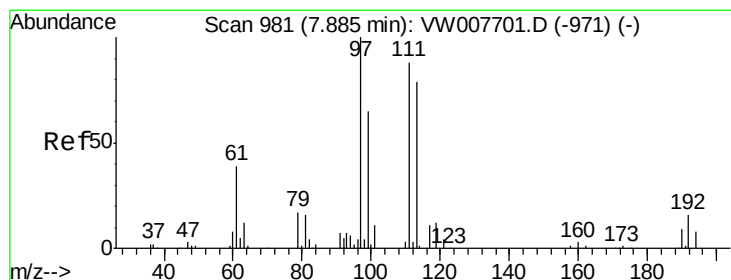
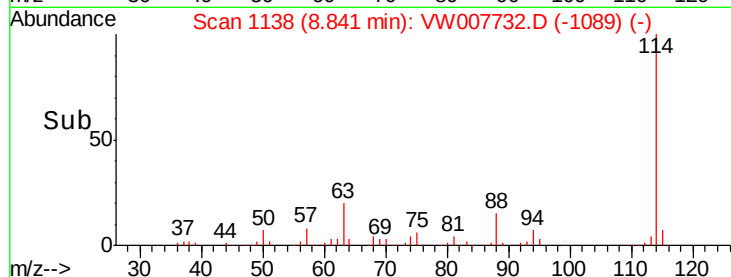
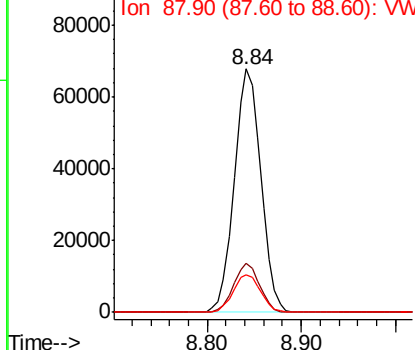
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.84 min Scan# 1138  
Delta R.T. -0.00 min  
Lab File: VW007732.D  
Acq: 20 Dec 2018 07:41

Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS004-1218-01

Tot Ion:114 Resp: 133036  
Ion Ratio Lower Upper  
114 100  
63 20.2 0.0 40.0  
88 15.4 0.0 32.6

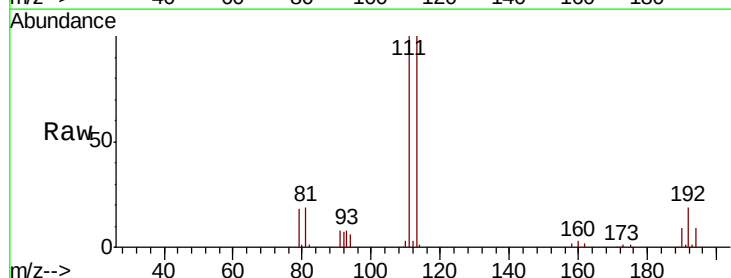


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VW  
Ion 87.90 (87.60 to 88.60): VW

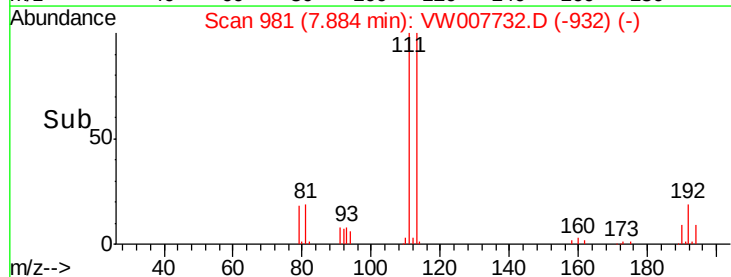
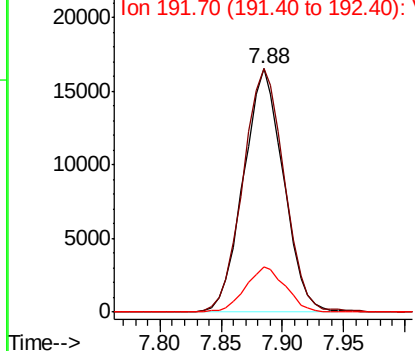


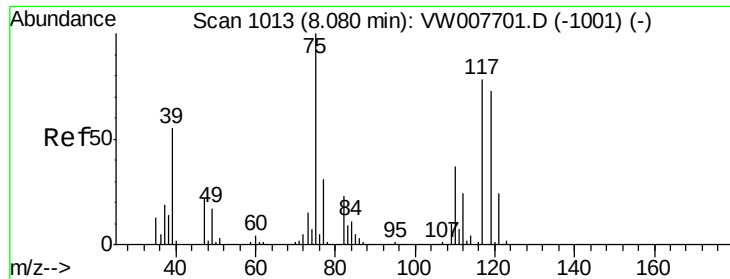
#35  
Dibromofluoromethane  
Concen: 46.258 ug/l  
RT: 7.88 min Scan# 981  
Delta R.T. -0.00 min  
Lab File: VW007732.D  
Acq: 20 Dec 2018 07:41

Tgt Ion:113 Resp: 37542  
Ion Ratio Lower Upper  
113 100  
111 103.4 82.6 124.0  
192 18.6 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

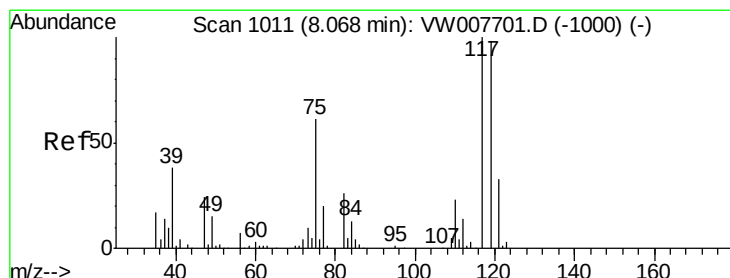
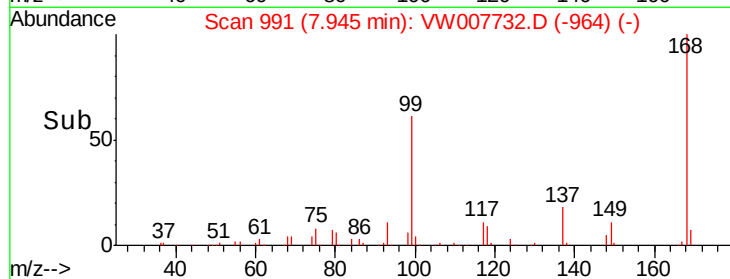
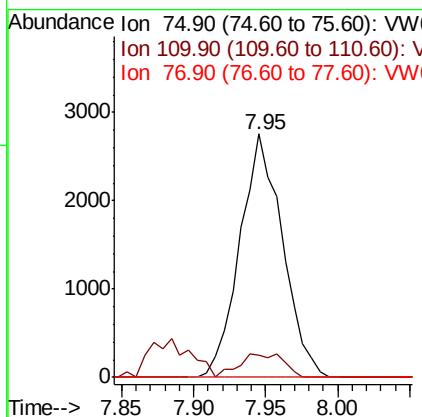
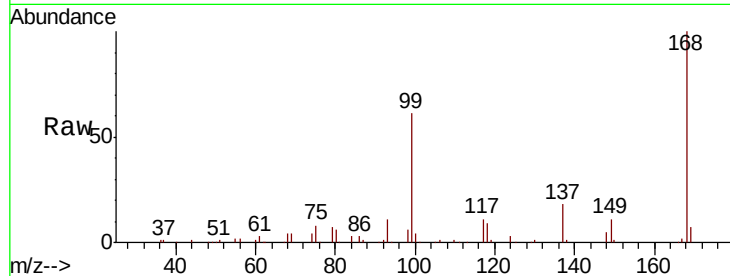




#36  
 1,1-Dichloropropene  
 Concen: 4.401 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW007732.D  
 Acq: 20 Dec 2018 07:41

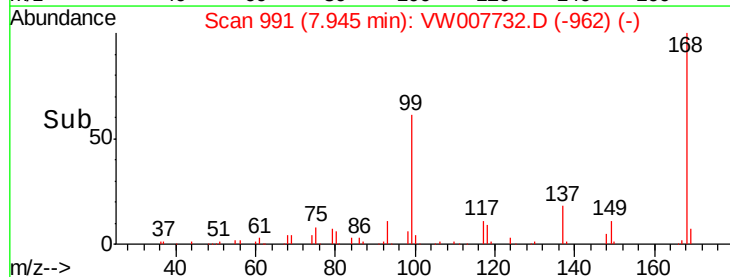
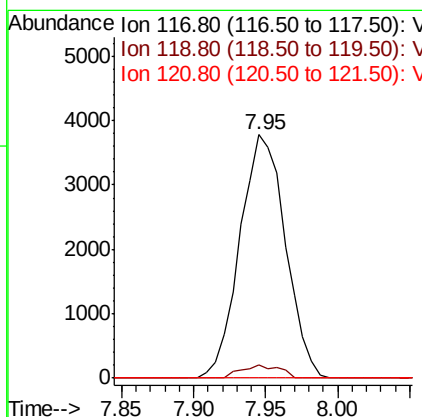
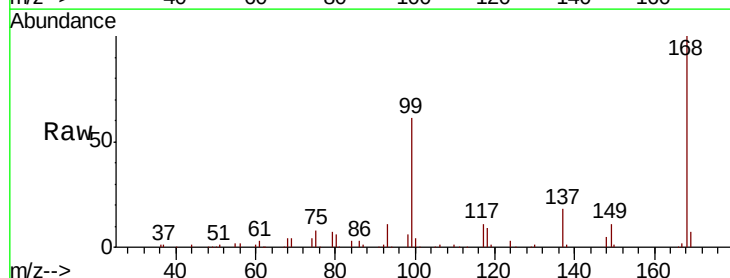
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 P001-SS004-1218-01

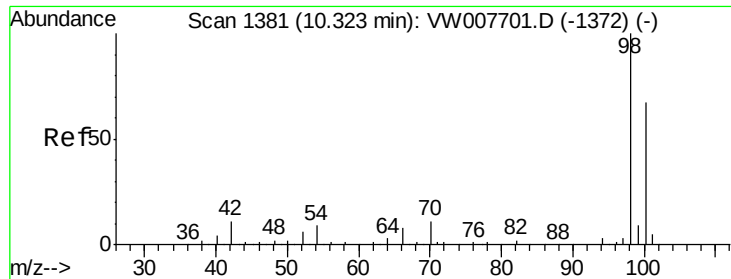
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.1  | 18.6  | 55.8# |
| 77      | 0.0   | 25.0  | 37.4# |



#38  
 Carbon Tetrachloride  
 Concen: 5.489 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW007732.D  
 Acq: 20 Dec 2018 07:41

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.3   | 78.2  | 117.2# |
| 121     | 0.0   | 26.1  | 39.1#  |





#50

Toluene-d8

Concen: 41.485 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007732.D

Acq: 20 Dec 2018 07:41

Instrument :

MSVOA\_W

ClientSampleId :

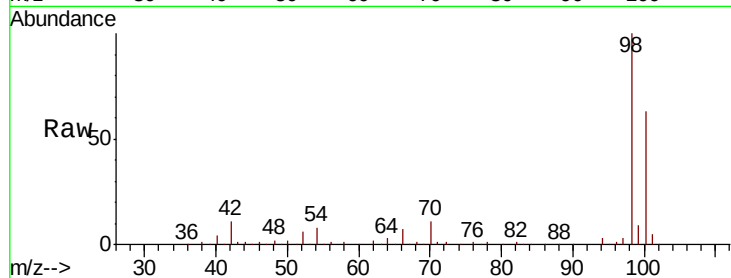
P001-SS004-1218-01

Tot Ion: 98 Resp: 126927

Ion Ratio Lower Upper

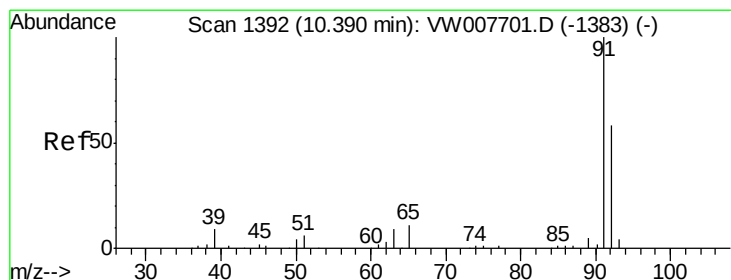
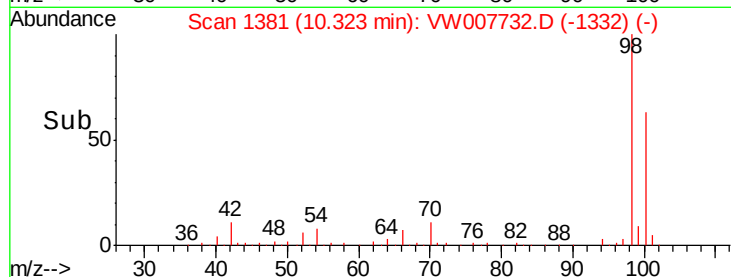
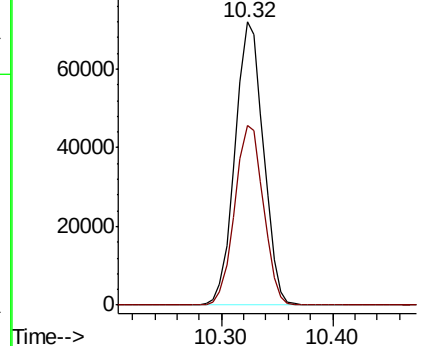
98 100

100 64.0 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#52

Toluene

Concen: 1.321 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007732.D

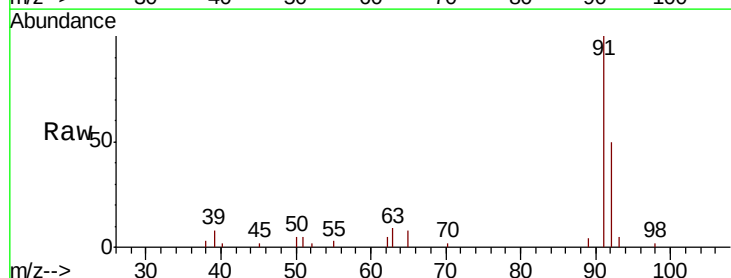
Acq: 20 Dec 2018 07:41

Tgt Ion: 92 Resp: 3037

Ion Ratio Lower Upper

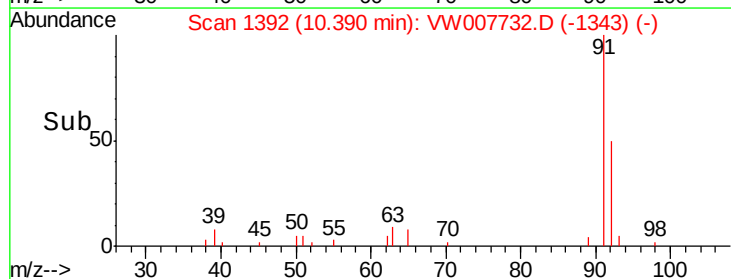
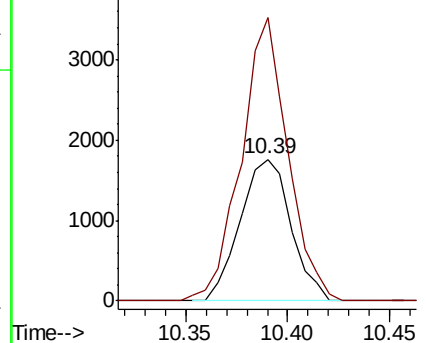
92 100

91 184.4 137.0 205.4

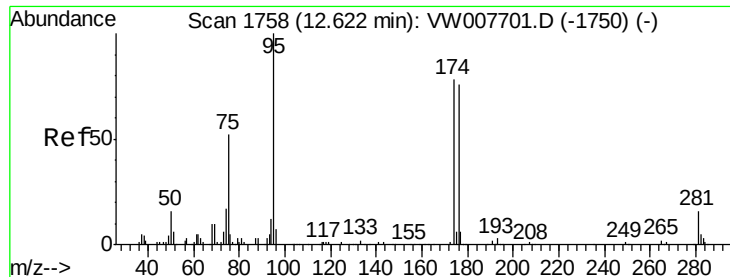


Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW







#62

4-Bromofluorobenzene

Concen: 36.126 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007732.D

Acq: 20 Dec 2018 07:41

Instrument :

MSVOA\_W

ClientSampleId :

P001-SS004-1218-01

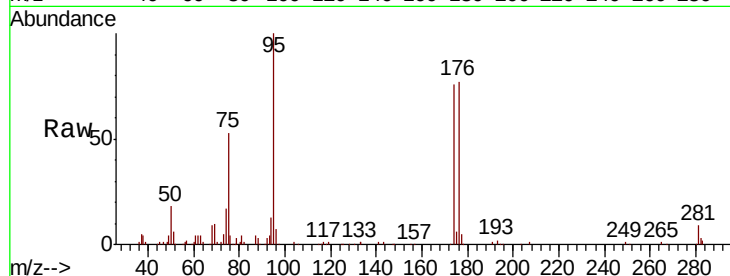
Tot Ion: 95 Resp: 42700

Ion Ratio Lower Upper

95 100

174 75.7 0.0 152.2

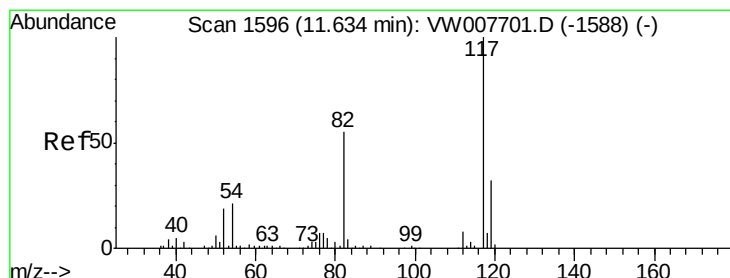
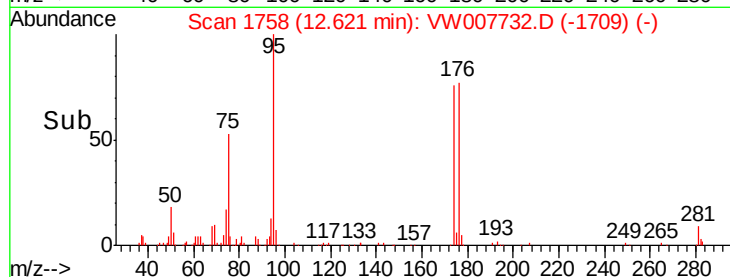
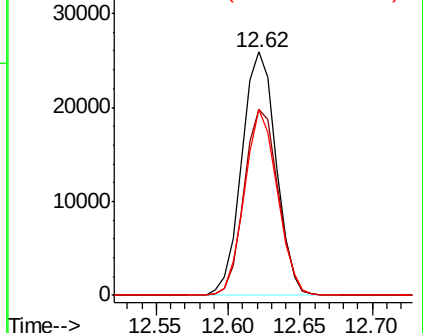
176 73.0 0.0 146.8



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: VW007732.D

Acq: 20 Dec 2018 07:41

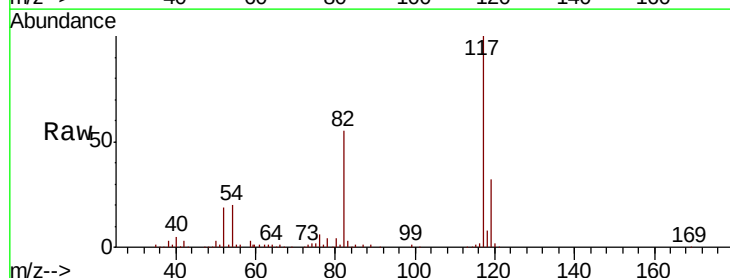
Tgt Ion: 117 Resp: 109842

Ion Ratio Lower Upper

117 100

82 54.6 44.3 66.5

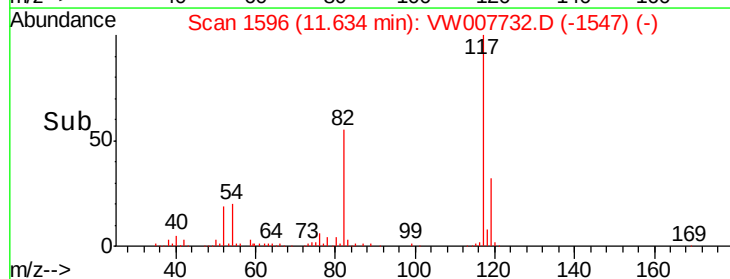
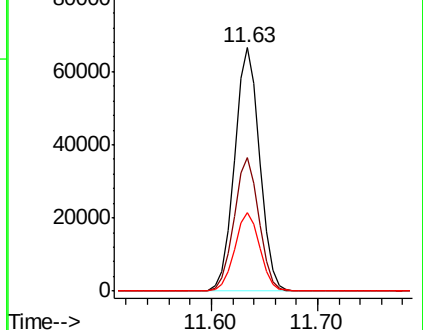
119 32.3 25.7 38.5

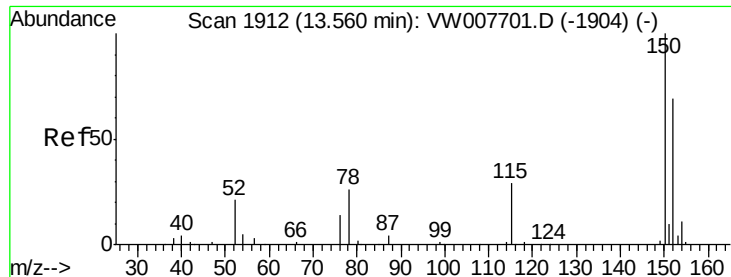


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW007732.D

Acq: 20 Dec 2018 07:41

Instrument :

MSVOA\_W

ClientSampleId :

P001-SS004-1218-01

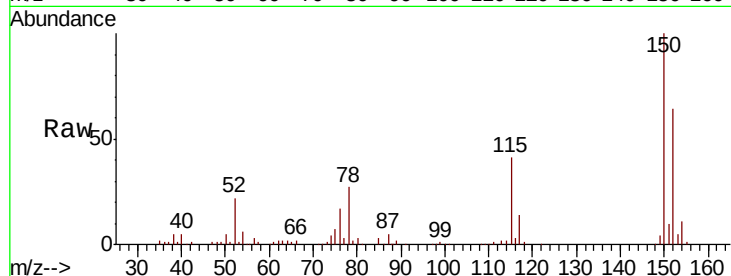
Tot Ion:152 Resp: 44164

Ion Ratio Lower Upper

152 100

115 62.0 31.8 95.4

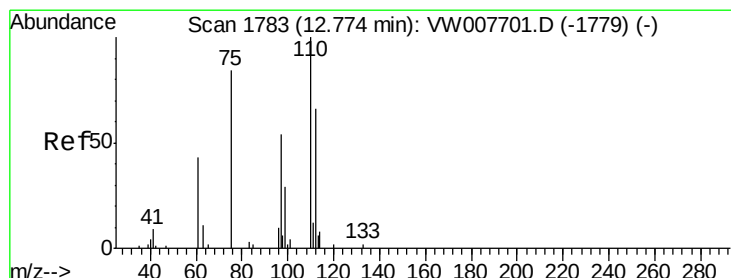
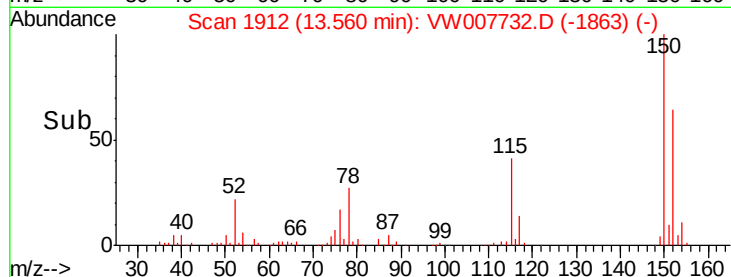
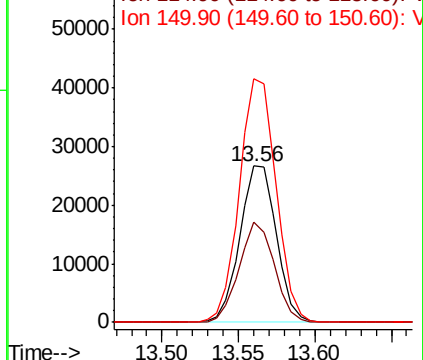
150 156.8 0.0 350.8



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: 65.025 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007732.D

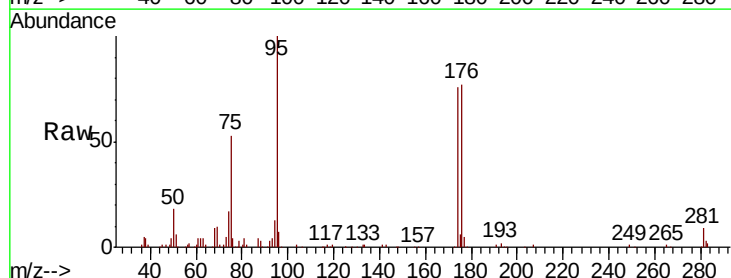
Acq: 20 Dec 2018 07:41

Tgt Ion: 75 Resp: 22196

Ion Ratio Lower Upper

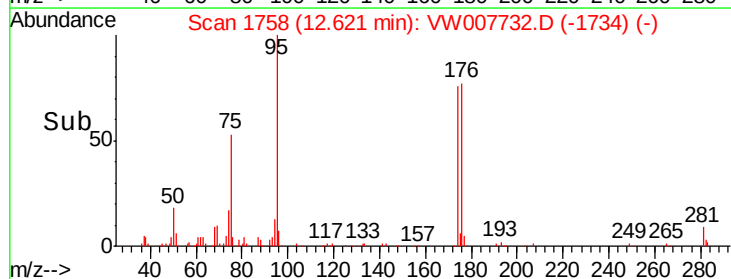
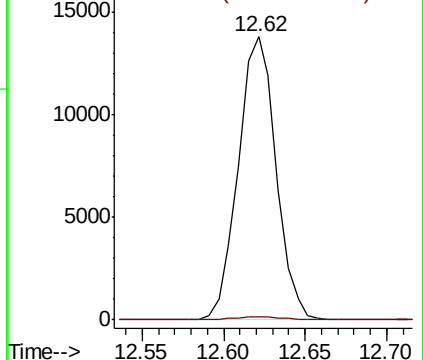
75 100

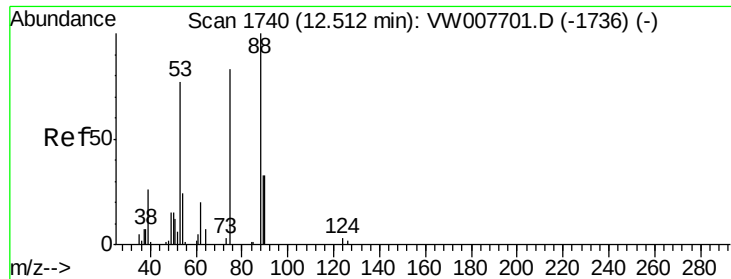
77 1.1 0.0 0.0#



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: 136.492 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW007732.D

Acq: 20 Dec 2018 07:41

Instrument :

MSVOA\_W

ClientSampleId :

P001-SS004-1218-01

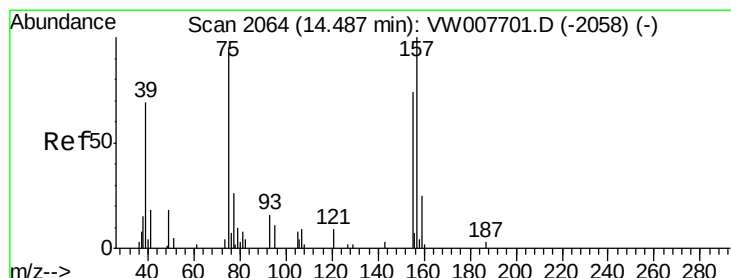
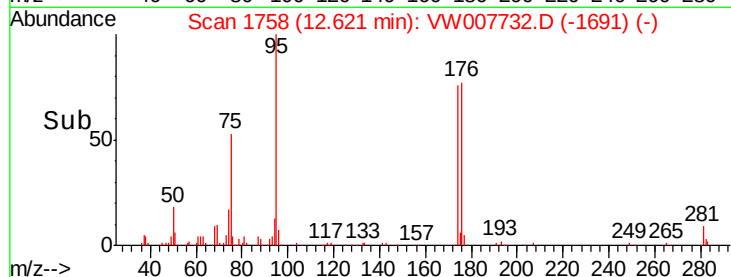
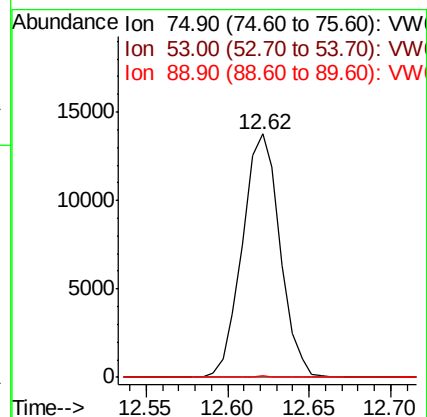
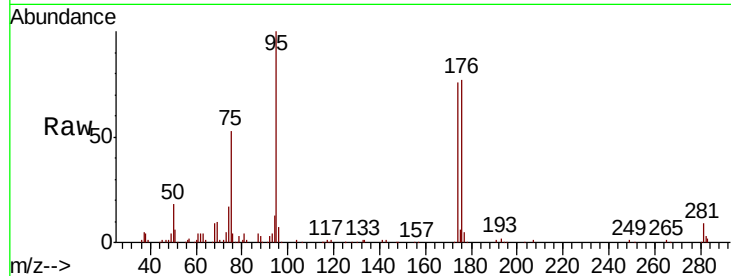
Tot Ion: 75 Resp: 22196

Ion Ratio Lower Upper

75 100

53 0.0 80.2 120.2#

89 0.1 39.2 58.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.274 ug/l

RT: 14.33 min Scan# 2039

Delta R.T. -0.15 min

Lab File: VW007732.D

Acq: 20 Dec 2018 07:41

Tgt Ion: 75 Resp: 131

Ion Ratio Lower Upper

75 100

155 0.0 39.4 118.1#

157 0.0 52.0 156.0#

