

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083119\  
 Data File : VW012401.D  
 Acq On : 31 Aug 2019 15:35  
 Operator : SY/VA  
 Sample : K4472-14RE  
 Misc : 5.88G/5ML/MSVOA W/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T2-S4-(2.5)RE

Quant Time: Aug 31 17:46:19 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

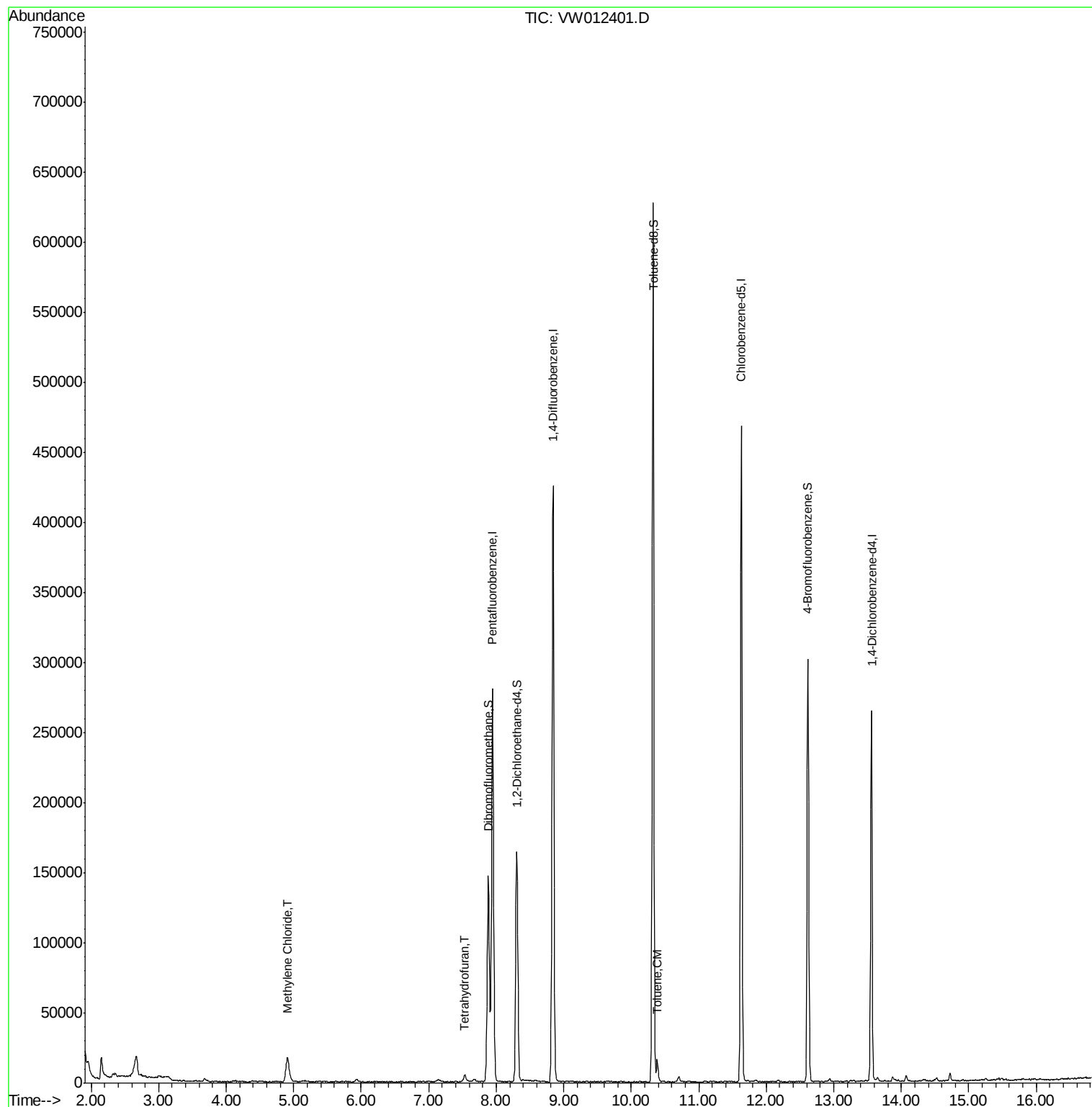
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 197903   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 331497   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 241839   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.56 | 152  | 67086    | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 133615   | 56.80 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 113.60% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 104909   | 53.02 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 106.04% |          |
| 50) Toluene-d8              | 10.32 | 98   | 390089   | 48.62 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.24%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 96521    | 34.13 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 68.26%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 20) Methylene Chloride      | 4.91  | 84   | 12558    | 5.524 | ug/l    | 93       |
| 29) Tetrahydrofuran         | 7.54  | 42   | 4141     | 8.446 | ug/l    | 95       |
| 52) Toluene                 | 10.38 | 92   | 5937     | 1.057 | ug/l    | 100      |

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

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Quant Title : SW846 8260  
QLast Update : Mon Aug 26 07:18:31 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

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Acq: 31 Aug 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

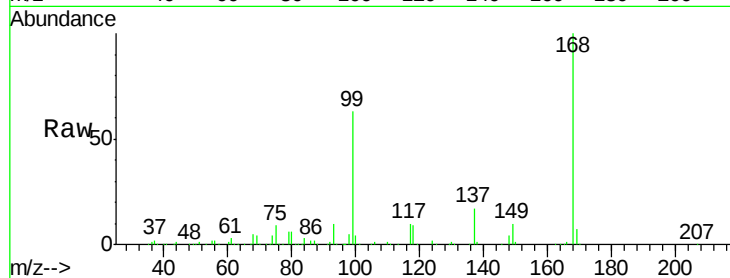
T2-S4-(2.5)RE

Tot Ion:168 Resp: 197903

Ion Ratio Lower Upper

168 100

99 63.0 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

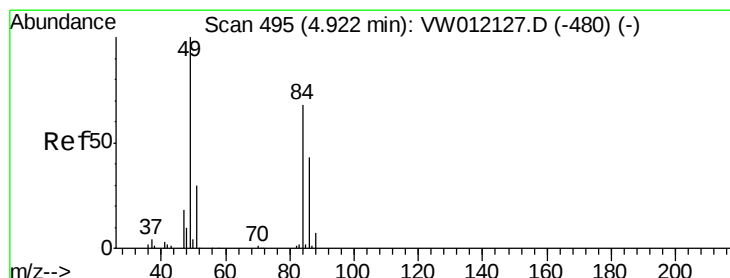
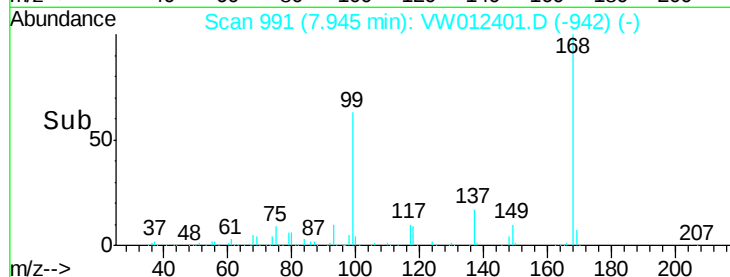
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#20

Methylene Chloride

Concen: 5.524 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

Tgt Ion: 84 Resp: 12558

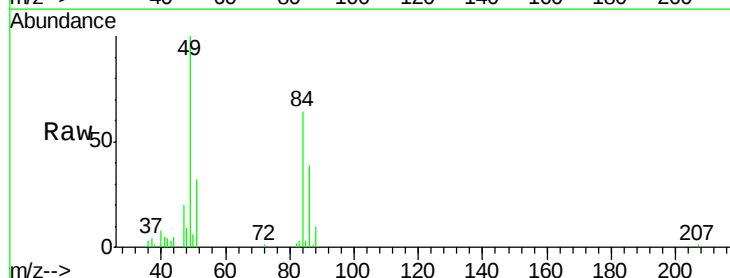
Ion Ratio Lower Upper

84 100

49 156.8 117.8 176.8

51 49.7 35.6 53.4

86 61.3 51.2 76.8



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

8000

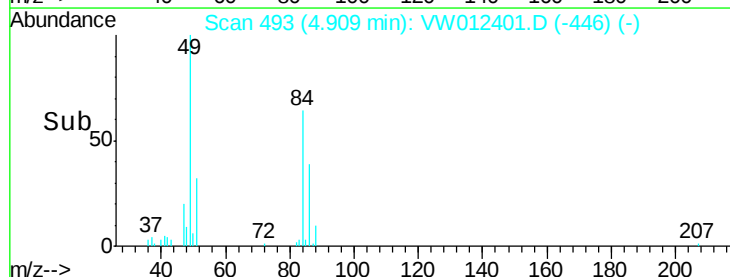
6000

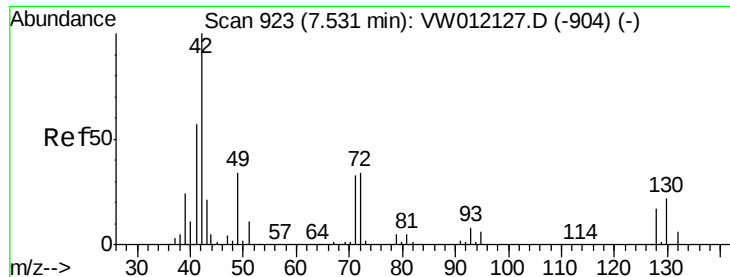
4000

2000

0

Time--> 4.80 4.90 5.00





#29

Tetrahydrofuran

Concen: 8.446 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

T2-S4-(2.5)RE

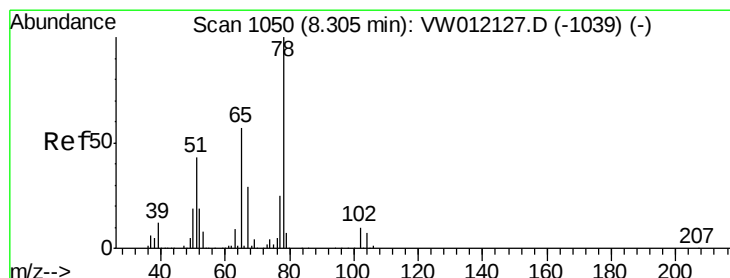
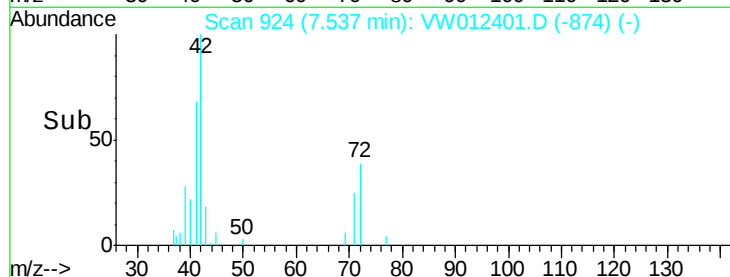
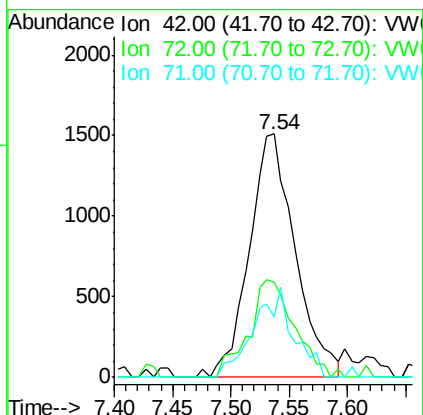
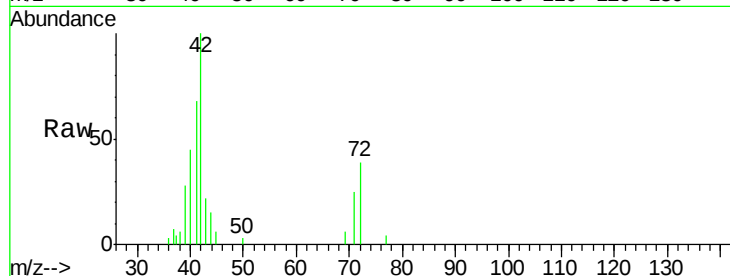
Tot Ion: 42 Resp: 4141

Ion Ratio Lower Upper

42 100

72 39.8 27.3 40.9

71 31.8 25.5 38.3



#33

1,2-Dichloroethane-d4

Concen: 56.795 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012401.D

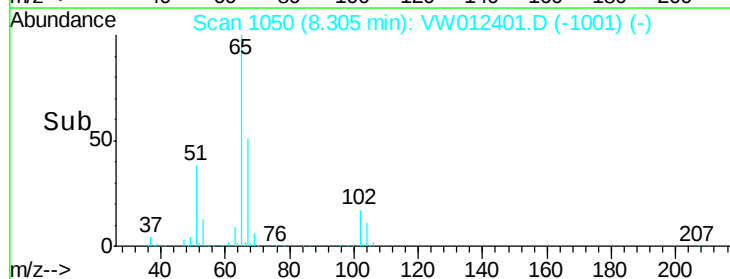
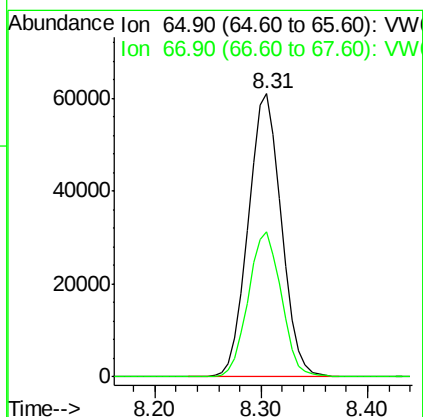
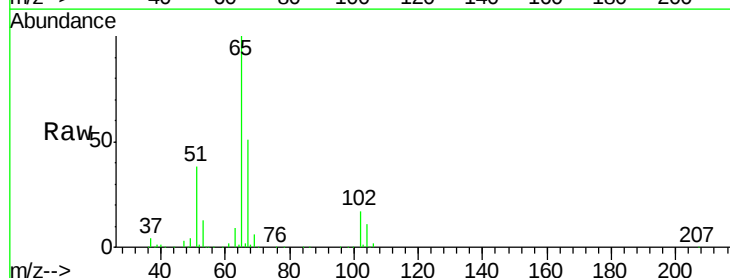
Acq: 31 Aug 2019 15:35

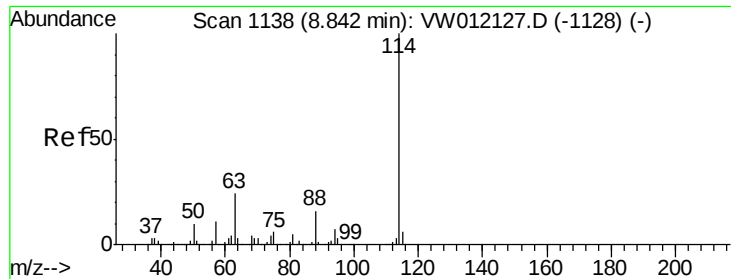
Tgt Ion: 65 Resp: 133615

Ion Ratio Lower Upper

65 100

67 51.1 0.0 102.6

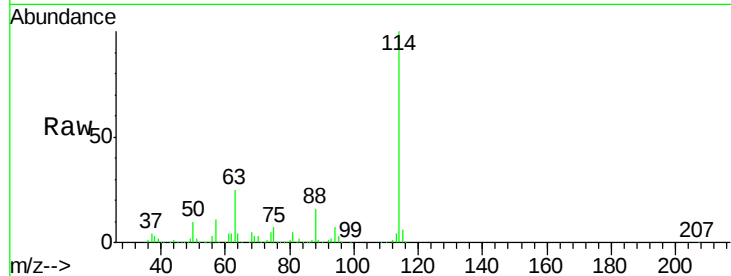




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012401.D  
 Acq: 31 Aug 2019 15:35

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T2-S4-(2.5)RE

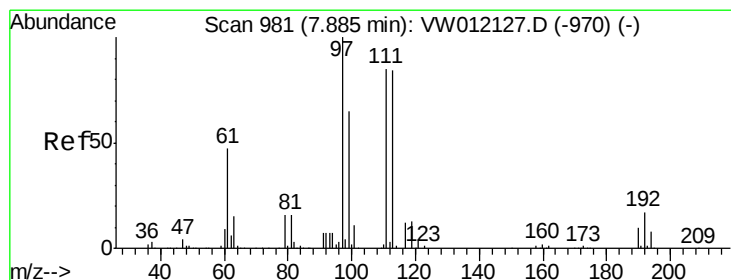
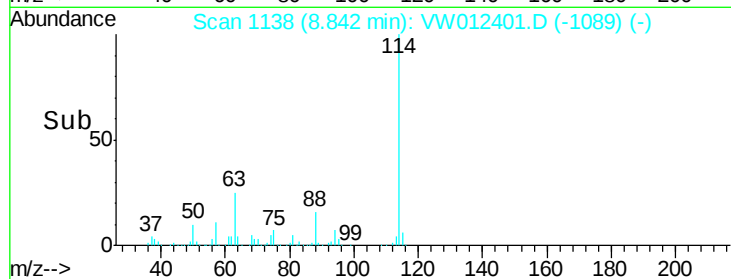
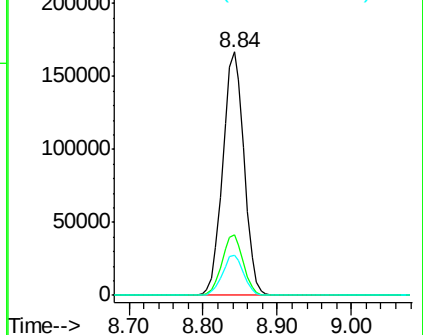
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.9  | 0.0   | 48.6  |
| 88      | 16.3  | 0.0   | 32.2  |



Abundance Ion 113.90 (113.60 to 114.60): V

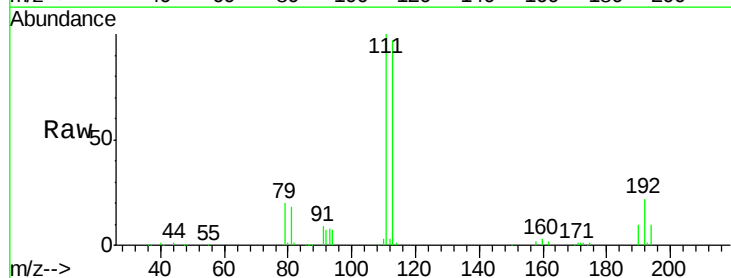
Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35  
 Dibromofluoromethane  
 Concen: 53.019 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW012401.D  
 Acq: 31 Aug 2019 15:35

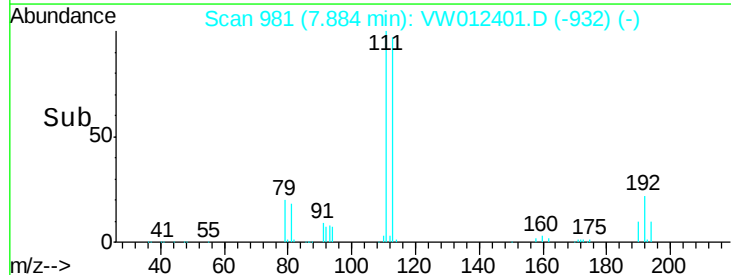
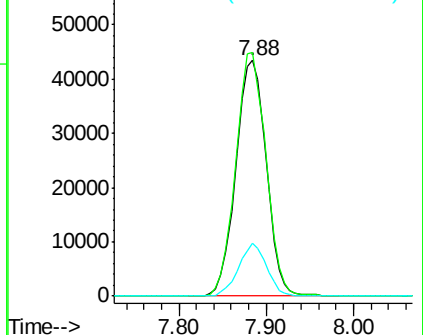
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.1 | 82.7  | 124.1 |
| 192     | 20.6  | 16.2  | 24.2  |

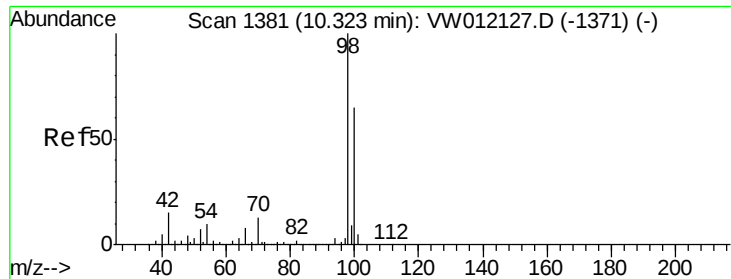


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 48.621 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

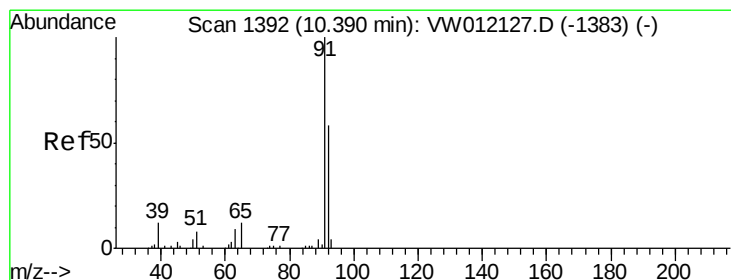
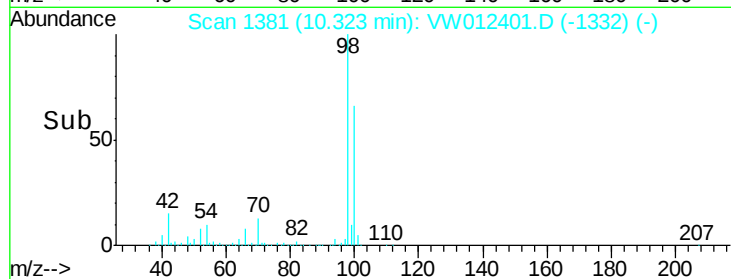
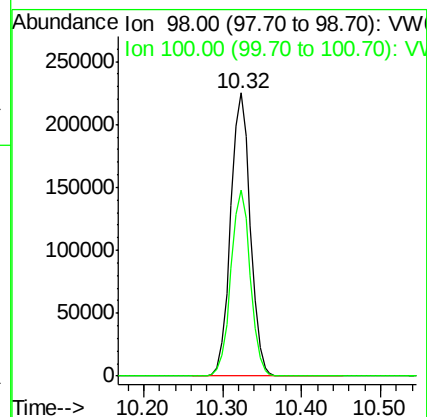
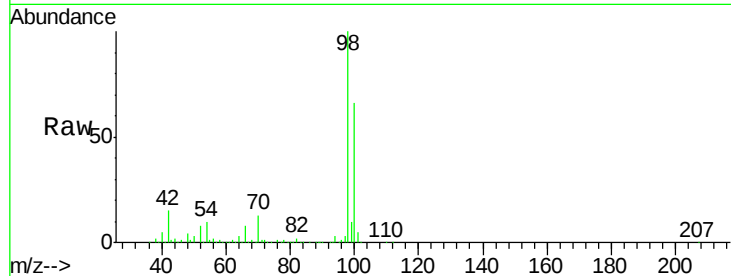
T2-S4-(2.5)RE

Tot Ion: 98 Resp: 390089

Ion Ratio Lower Upper

98 100

100 64.8 52.4 78.6



#52

Toluene

Concen: 1.057 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW012401.D

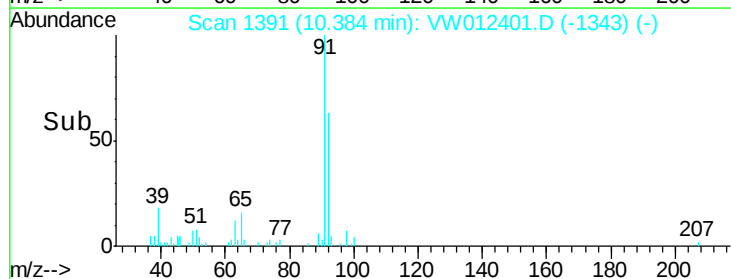
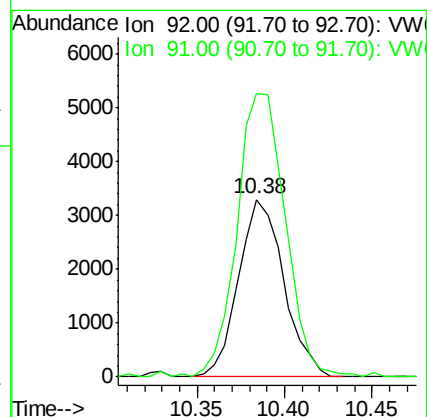
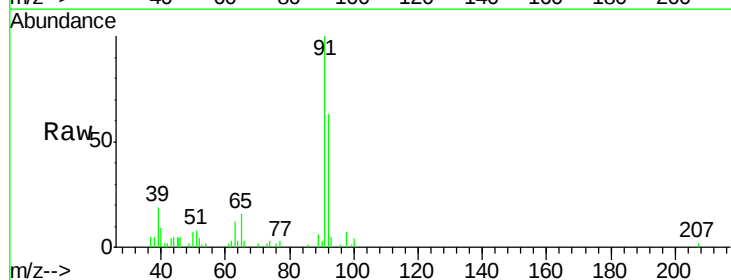
Acq: 31 Aug 2019 15:35

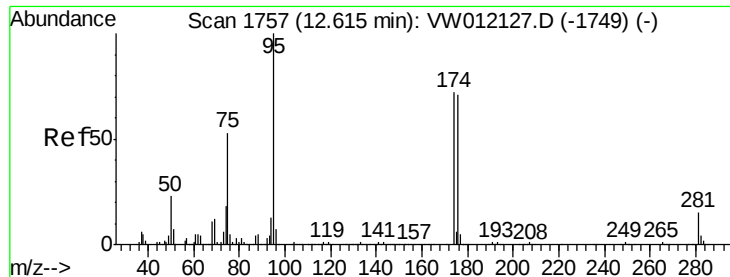
Tgt Ion: 92 Resp: 5937

Ion Ratio Lower Upper

92 100

91 170.3 136.6 204.8





#62

4-Bromofluorobenzene

Concen: 34.129 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

T2-S4-(2.5)RE

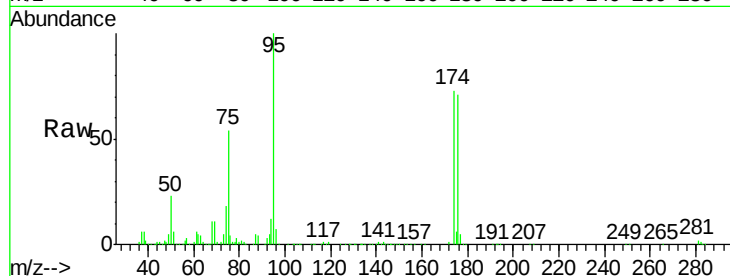
Tot Ion: 95 Resp: 96521

Ion Ratio Lower Upper

95 100

174 77.4 0.0 150.8

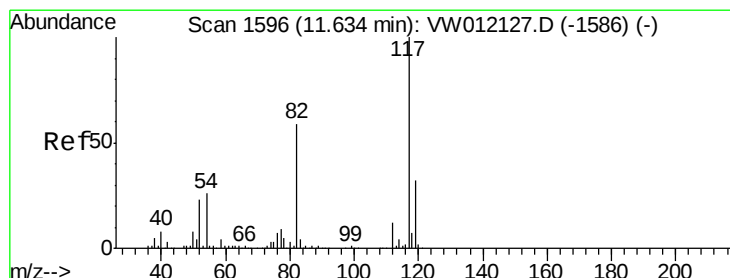
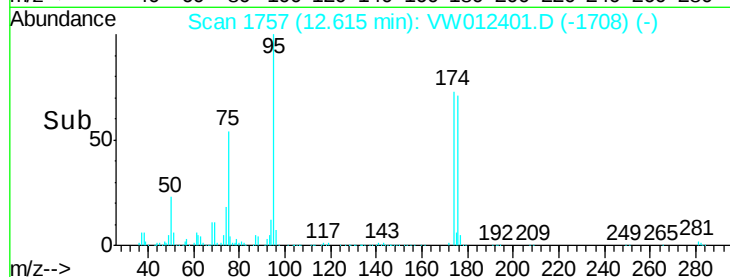
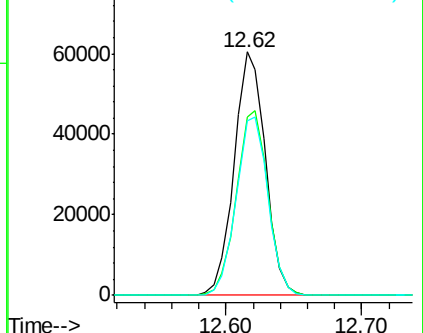
176 74.9 0.0 148.6



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# 1595

Delta R.T. -0.01 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

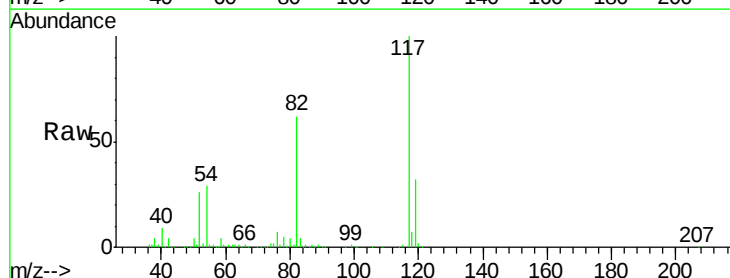
Tgt Ion: 117 Resp: 241839

Ion Ratio Lower Upper

117 100

82 61.5 47.4 71.2

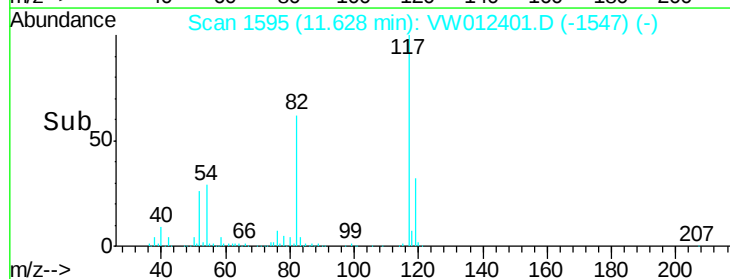
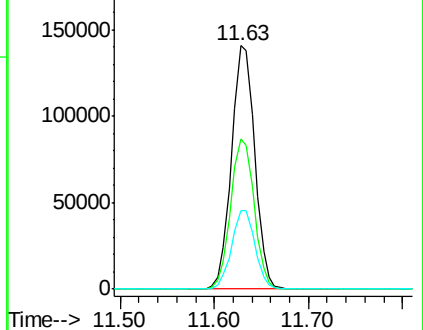
119 32.2 25.4 38.2

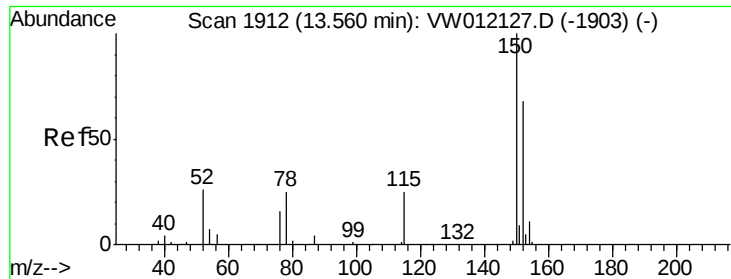


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW012401.D

Acq: 31 Aug 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

T2-S4-(2.5)RE

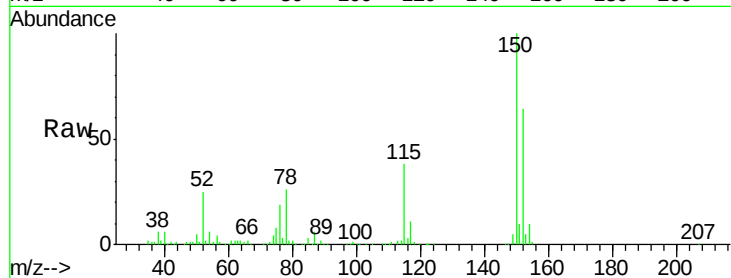
Tot Ion:152 Resp: 67086

Ion Ratio Lower Upper

152 100

115 60.2 30.1 90.3

150 155.2 0.0 345.8



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

