

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122518\  
 Data File : VW007901.D  
 Acq On : 24 Dec 2018 20:36  
 Operator : SY/AP  
 Sample : J6447-02  
 Misc : 3.51G/5ML/MSVOA W/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 P001-SS024-0006-01

Quant Time: Dec 26 05:41:14 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

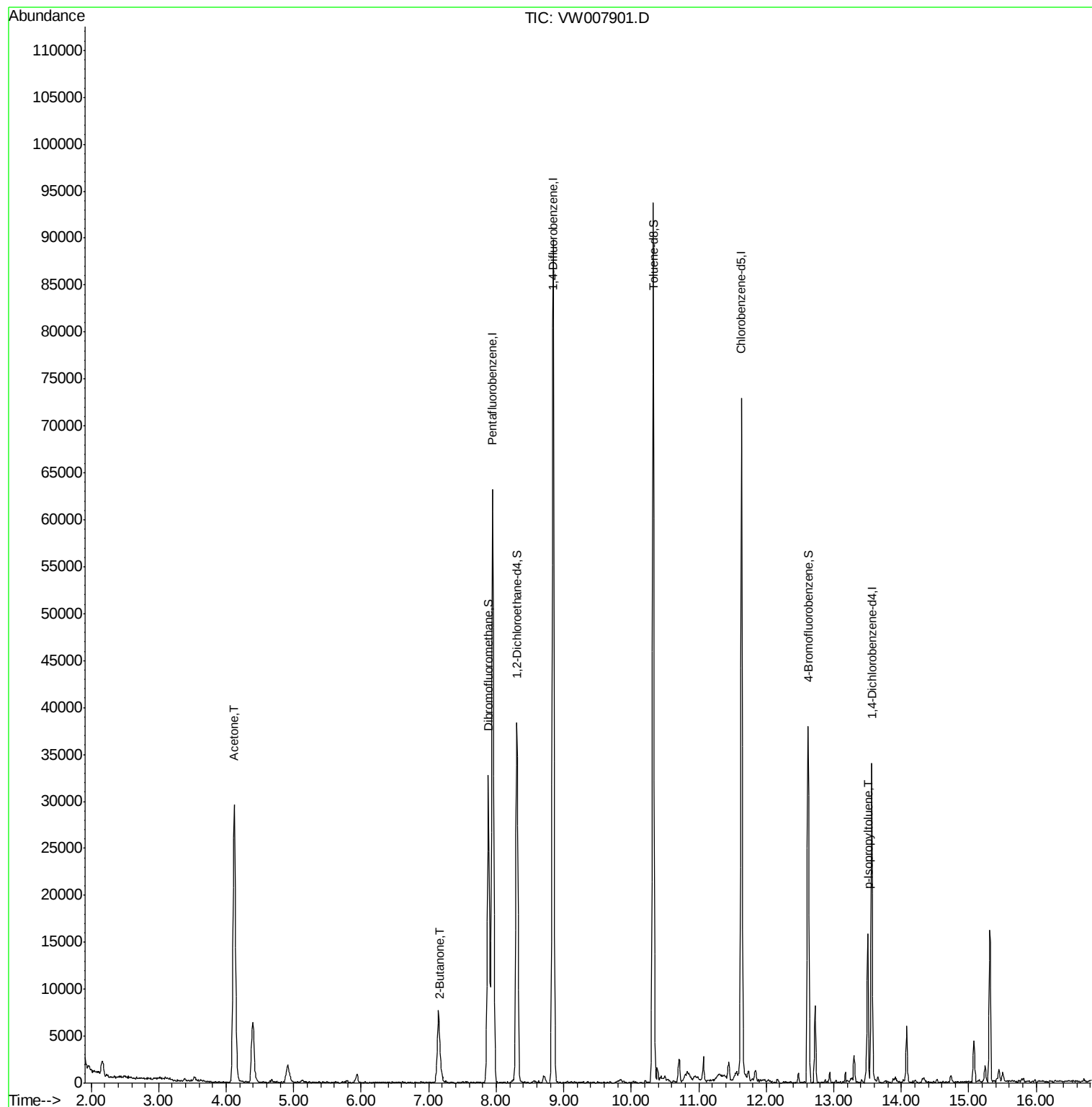
| Internal Standards          | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 45858    | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 75817    | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 40215    | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.56 | 152  | 8615     | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 31691    | 63.05   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 126.10% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 24679    | 53.36   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 106.72% |          |
| 50) Toluene-d8              | 10.32 | 98   | 61780    | 35.43   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 70.86%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 11740    | 17.43   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 34.86%  |          |
| Target Compounds            |       |      |          |         |         |          |
| 16) Acetone                 | 4.12  | 43   | 51416    | 546.274 | ug/l    | 94       |
| 25) 2-Butanone              | 7.17  | 43   | 1361     | 12.345  | ug/l    | 91       |
| 86) p-Isopropyltoluene      | 13.50 | 119  | 9183     | 14.868  | ug/l    | 98       |

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

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Sample : J6447-02  
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MSVOA\_W  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
Quant Title : SW846 8260  
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# 991

Delta R.T. -0.00 min

Lab File: VW007901.D

Acq: 24 Dec 2018 20:36

Instrument :

MSVOA\_W

ClientSampleId :

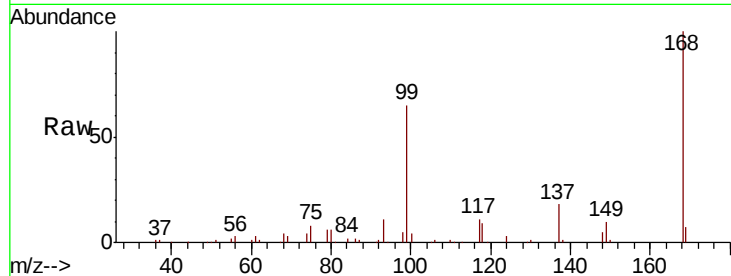
P001-SS024-0006-01

Tot Ion:168 Resp: 45858

Ion Ratio Lower Upper

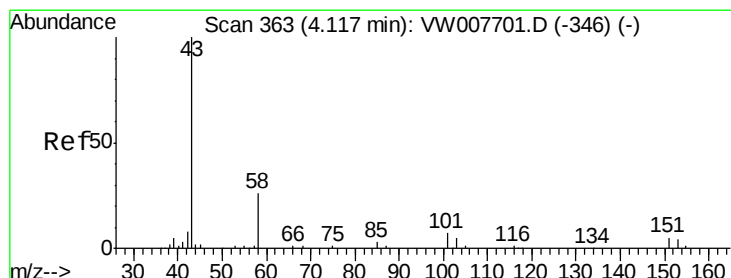
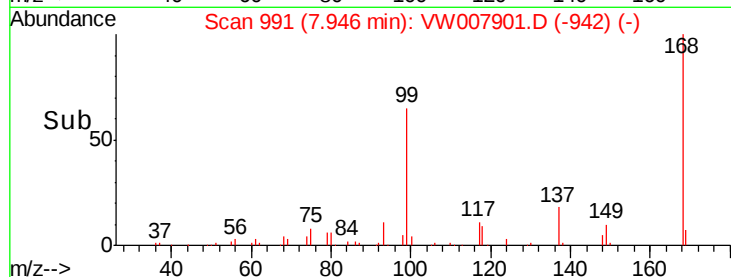
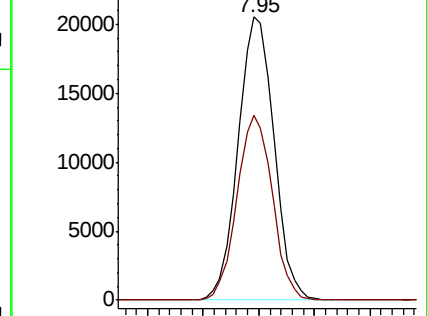
168 100

99 65.1 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 546.274 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007901.D

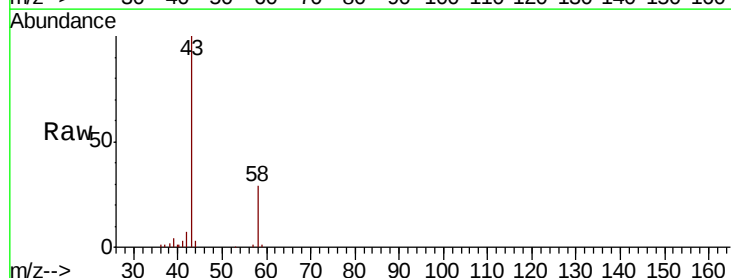
Acq: 24 Dec 2018 20:36

Tgt Ion: 43 Resp: 51416

Ion Ratio Lower Upper

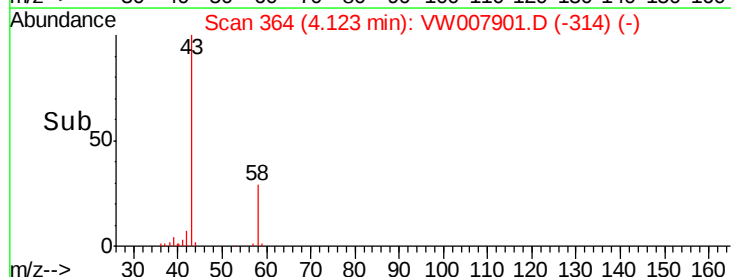
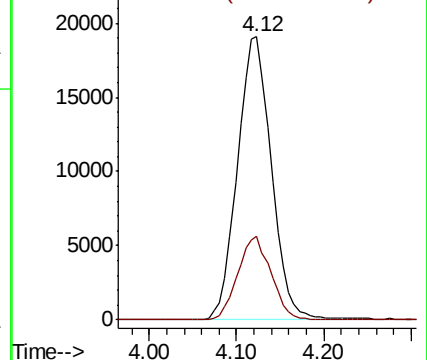
43 100

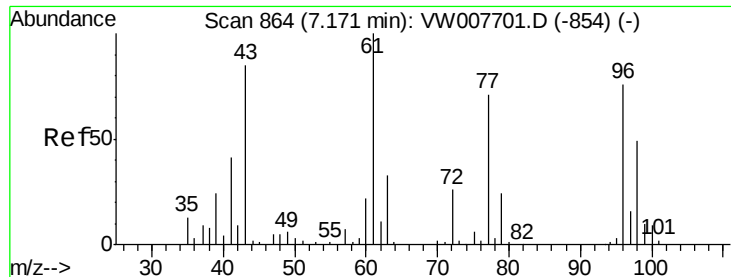
58 29.4 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

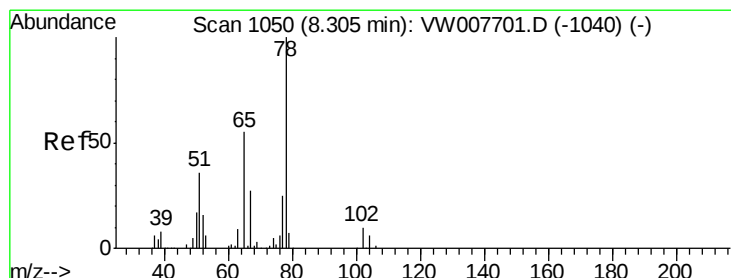
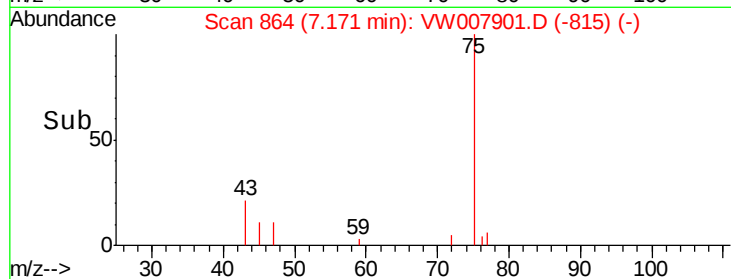
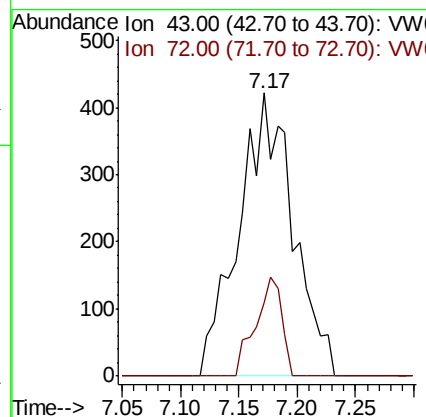
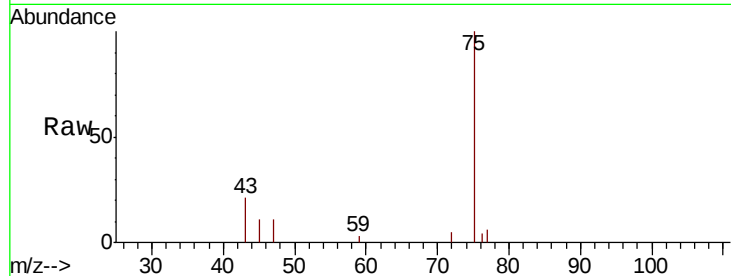




#25  
2-Butanone  
Concen: 12.345 ug/l  
RT: 7.17 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VW007901.D  
Acq: 24 Dec 2018 20:36

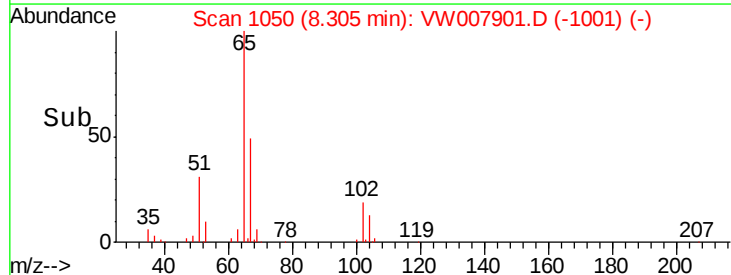
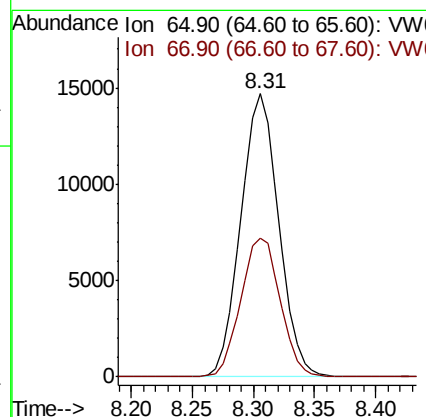
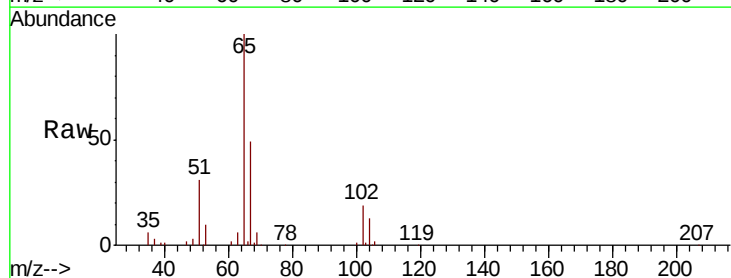
Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS024-0006-01

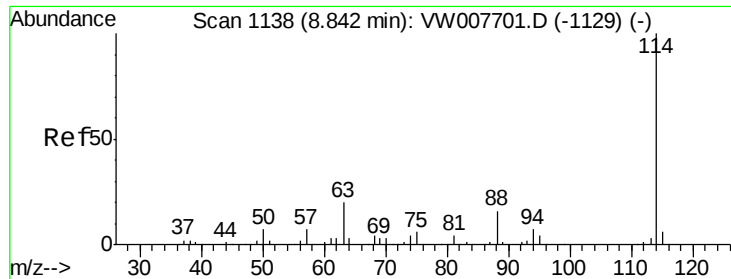
Tot Ion: 43 Resp: 1361  
Ion Ratio Lower Upper  
43 100  
72 25.8 24.5 36.7



#33  
1,2-Dichloroethane-d4  
Concen: 63.051 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW007901.D  
Acq: 24 Dec 2018 20:36

Tgt Ion: 65 Resp: 31691  
Ion Ratio Lower Upper  
65 100  
67 50.8 0.0 100.6

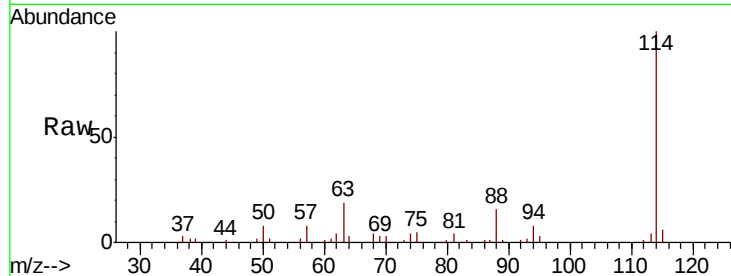




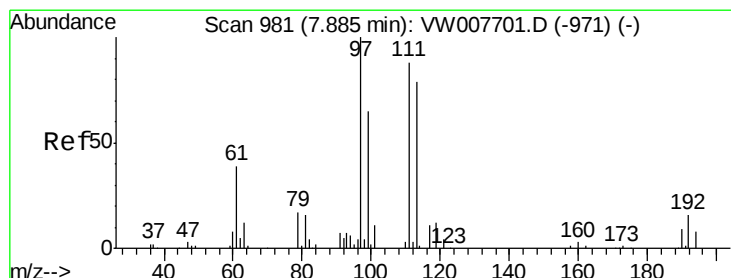
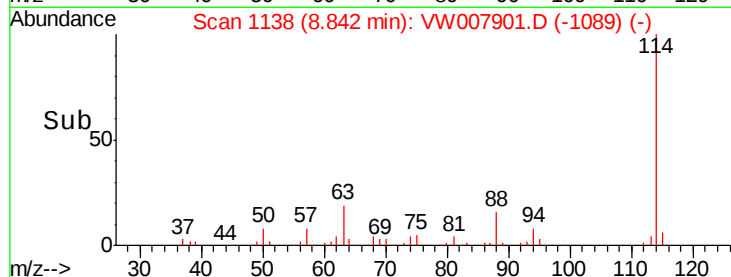
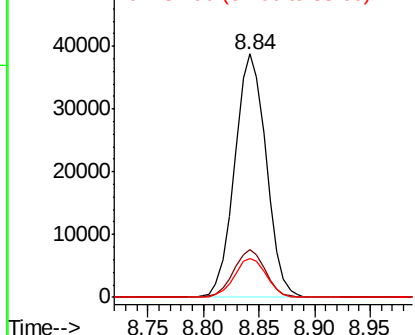
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW007901.D  
 Acq: 24 Dec 2018 20:36

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 P001-SS024-0006-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.5  | 0.0   | 40.0  |
| 88      | 15.9  | 0.0   | 32.6  |

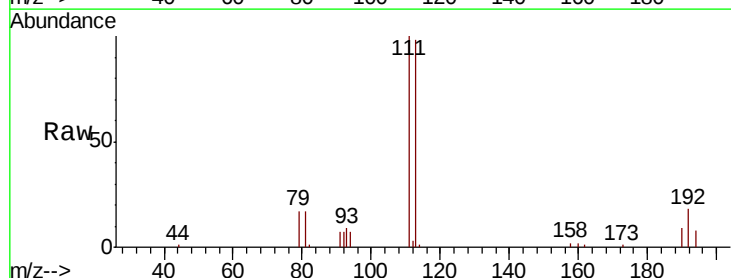


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

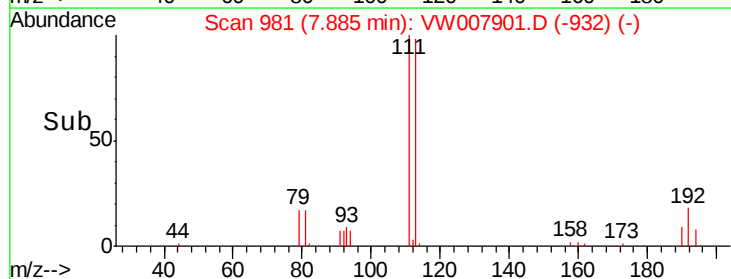
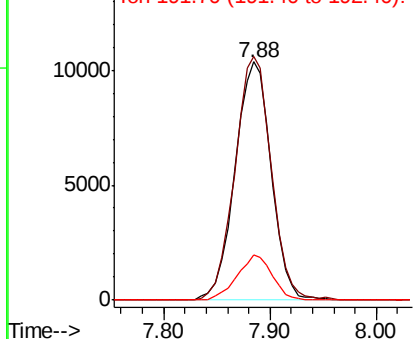


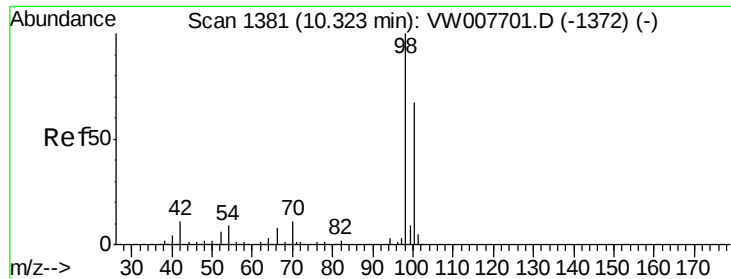
#35  
 Dibromofluoromethane  
 Concen: 53.357 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW007901.D  
 Acq: 24 Dec 2018 20:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 82.6  | 124.0 |
| 192     | 18.1  | 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





#50

Toluene-d8

Concen: 35.432 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007901.D

Acq: 24 Dec 2018 20:36

Instrument :

MSVOA\_W

ClientSampleId :

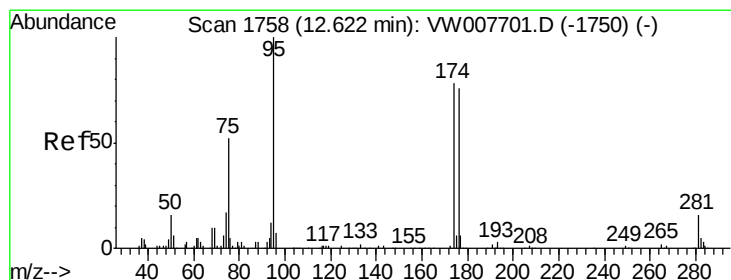
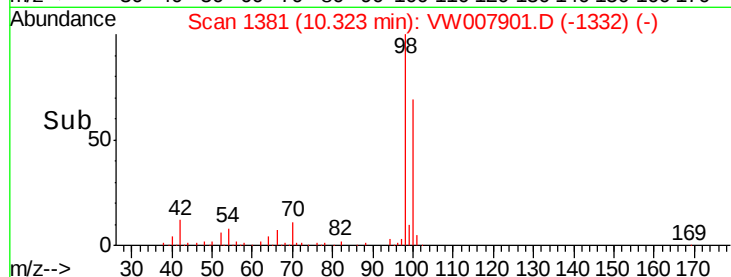
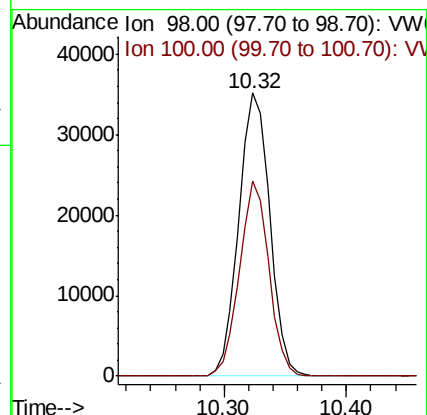
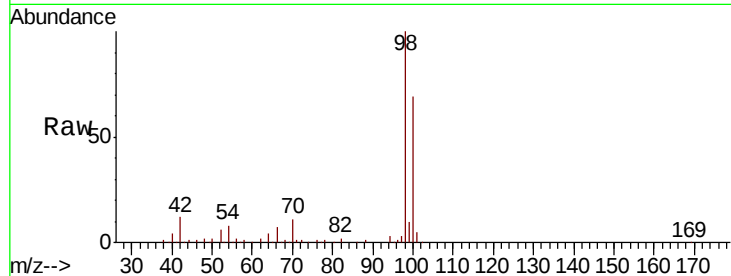
P001-SS024-0006-01

Tot Ion: 98 Resp: 61780

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 17.429 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007901.D

Acq: 24 Dec 2018 20:36

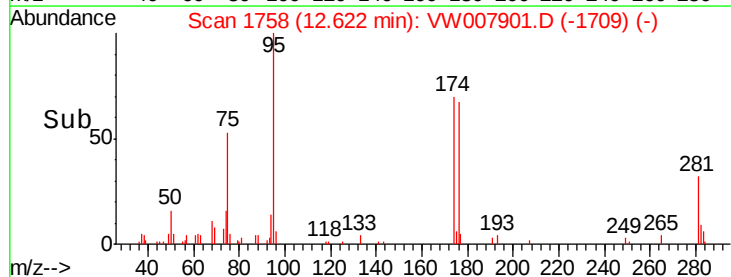
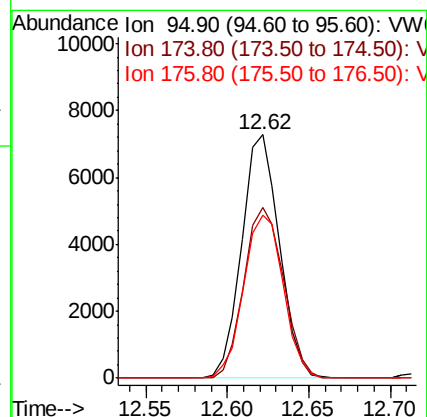
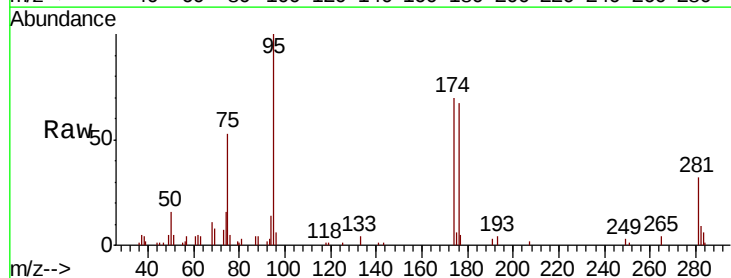
Tgt Ion: 95 Resp: 11740

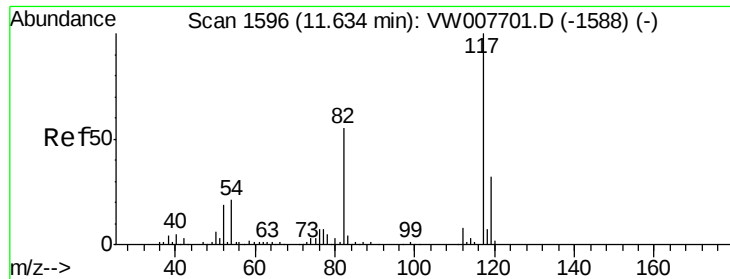
Ion Ratio Lower Upper

95 100

174 73.6 0.0 152.2

176 70.3 0.0 146.8

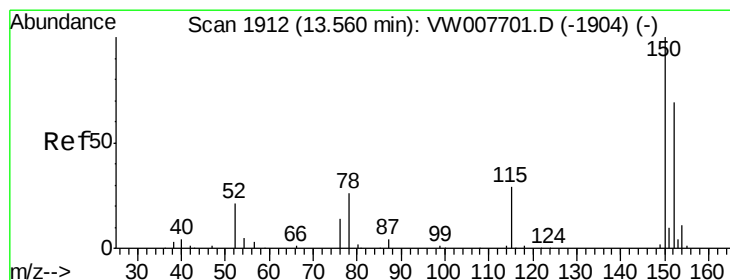
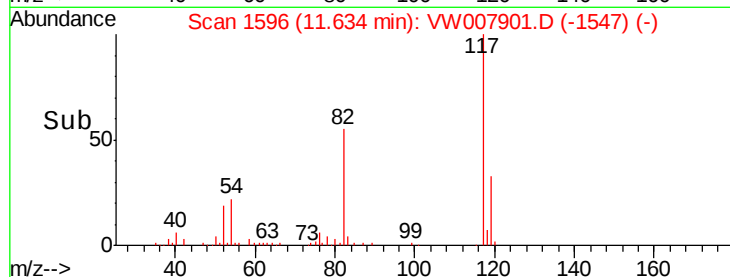
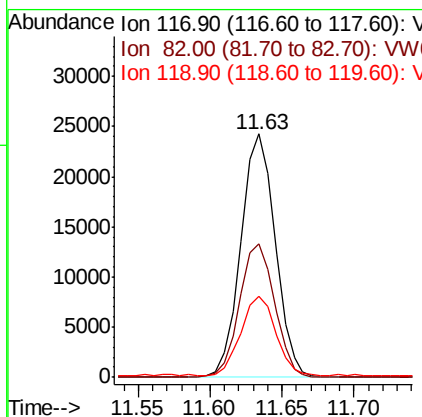
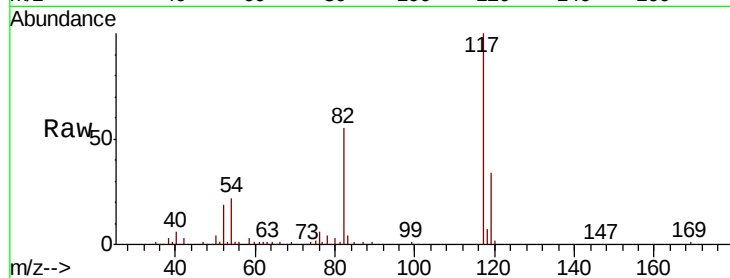




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007901.D  
Acq: 24 Dec 2018 20:36

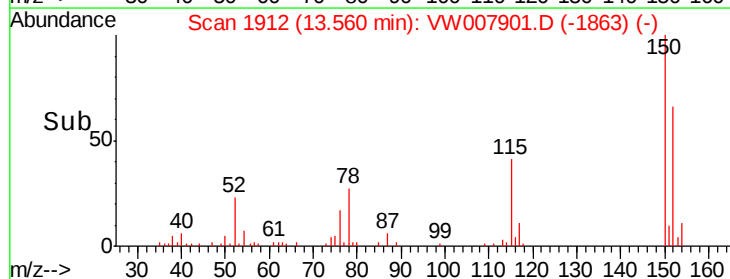
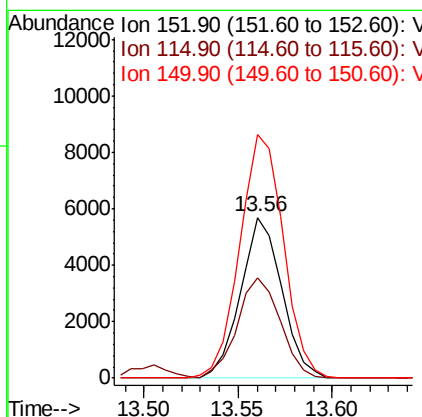
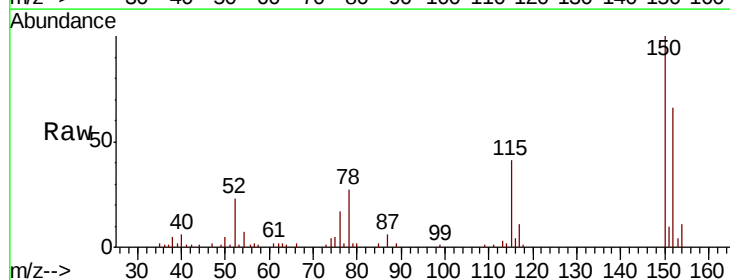
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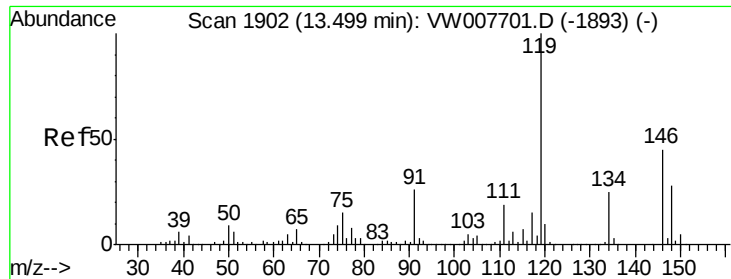
Tot Ion:117 Resp: 40215  
Ion Ratio Lower Upper  
117 100  
82 55.1 44.3 66.5  
119 32.4 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW007901.D  
Acq: 24 Dec 2018 20:36

Tgt Ion:152 Resp: 8615  
Ion Ratio Lower Upper  
152 100  
115 65.2 31.8 95.4  
150 160.9 0.0 350.8





#86  
 p-Isopropyltoluene  
 Concen: 14.868 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW007901.D  
 Acq: 24 Dec 2018 20:36

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 P001-SS024-0006-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 24.8  | 13.0  | 39.0  |
| 91      | 24.9  | 12.8  | 38.4  |

