

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082719\  
 Data File : VW012229.D  
 Acq On : 28 Aug 2019 02:50  
 Operator : SY/VA  
 Sample : K4551-01  
 Misc : 5.61G/5ML/MSVOA W/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 S401-K1-1.0-1.5-082619-FD

Quant Time: Aug 28 07:18:41 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

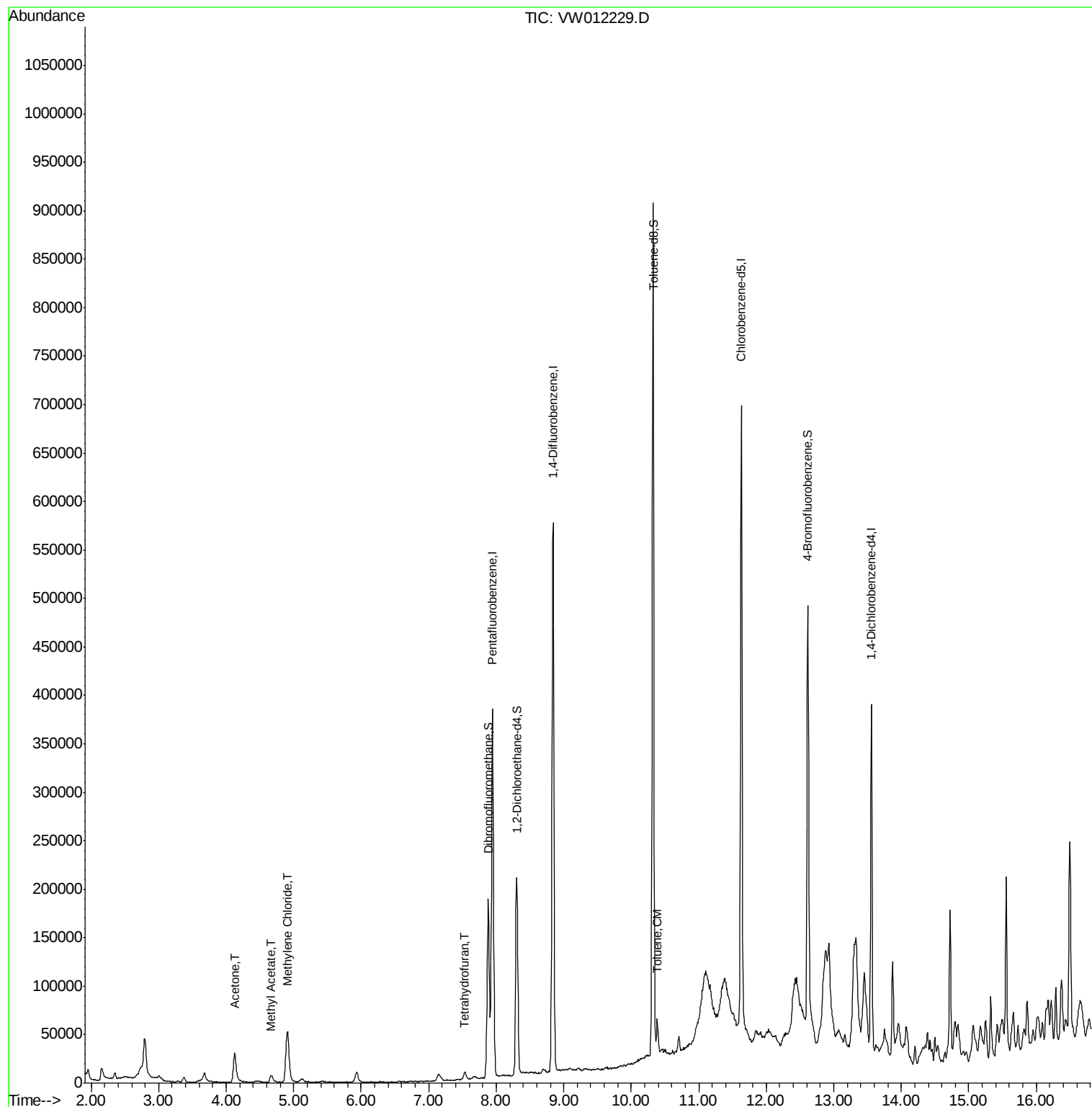
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 276541   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 451712   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 338774   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.56 | 152  | 88472    | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 164116   | 49.92  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 99.84%  |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 133740   | 49.60  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 99.20%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 557317   | 50.98  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.96% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 140608   | 36.49  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 72.98%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 4.12  | 43   | 59476    | 70.777 | ug/l    | 98       |
| 18) Methyl Acetate          | 4.67  | 43   | 16170    | 7.769  | ug/l    | 92       |
| 20) Methylene Chloride      | 4.90  | 84   | 38690    | 12.179 | ug/l    | 98       |
| 29) Tetrahydrofuran         | 7.53  | 42   | 7356     | 10.737 | ug/l    | 93       |
| 52) Toluene                 | 10.38 | 92   | 14460    | 1.888  | ug/l    | 99       |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
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

Lab File: VW012229.D

Acq: 28 Aug 2019 02:50

Instrument :

MSVOA\_W

ClientSampleId :

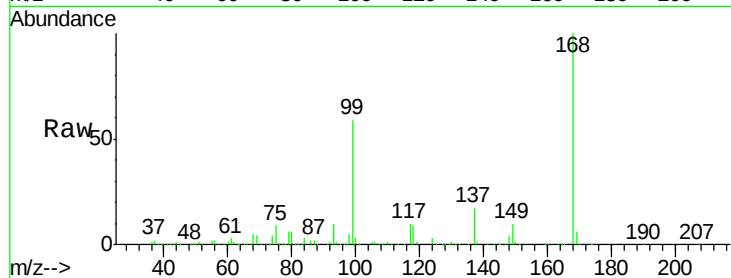
S401-K1-1.0-1.5-082619-FD

Tot Ion:168 Resp: 276541

Ion Ratio Lower Upper

168 100

99 58.9 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

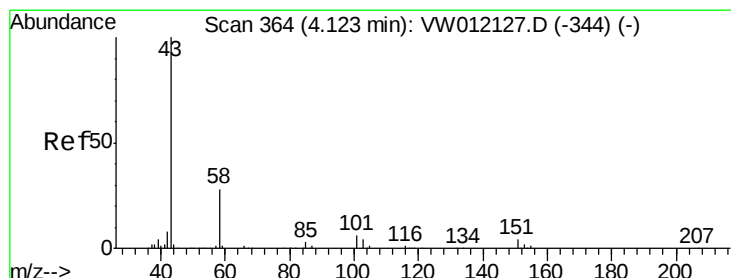
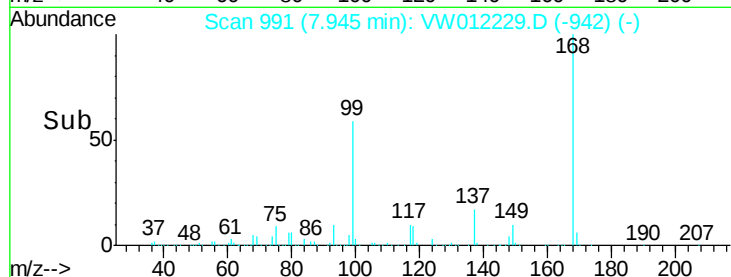
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 70.777 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW012229.D

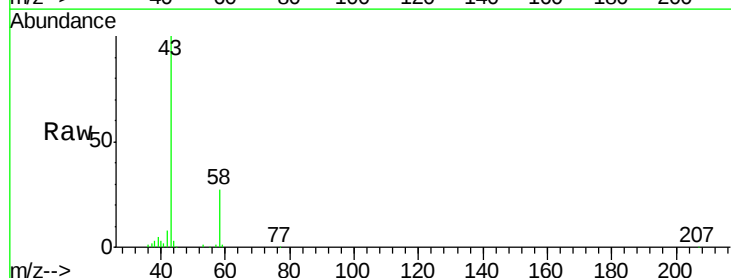
Acq: 28 Aug 2019 02:50

Tgt Ion: 43 Resp: 59476

Ion Ratio Lower Upper

43 100

58 26.8 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

20000

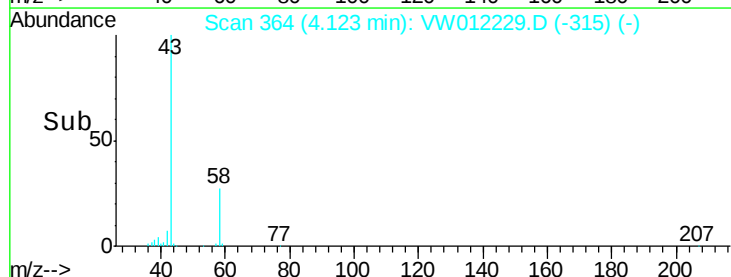
15000

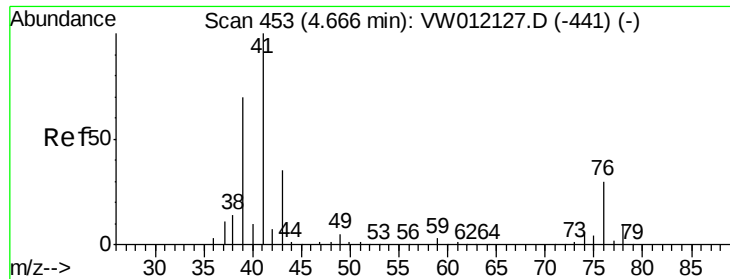
10000

5000

0

Time-->

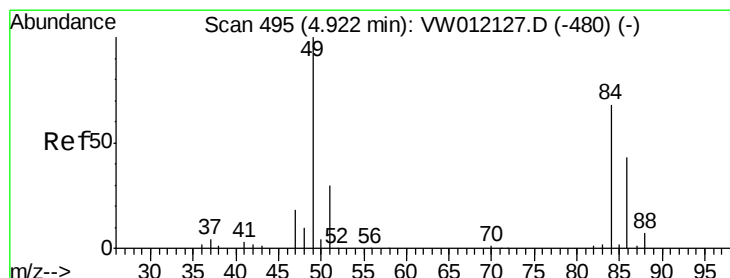
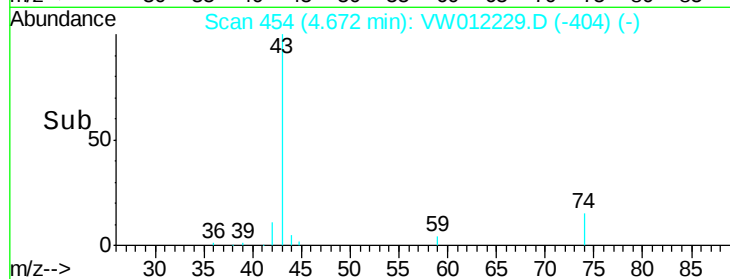
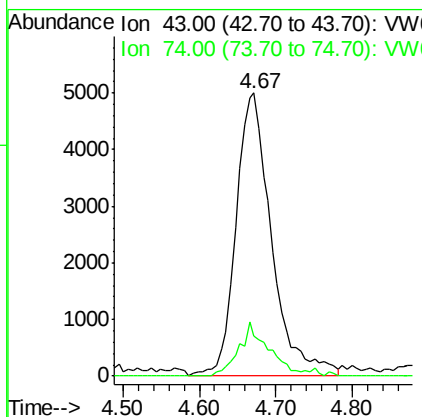
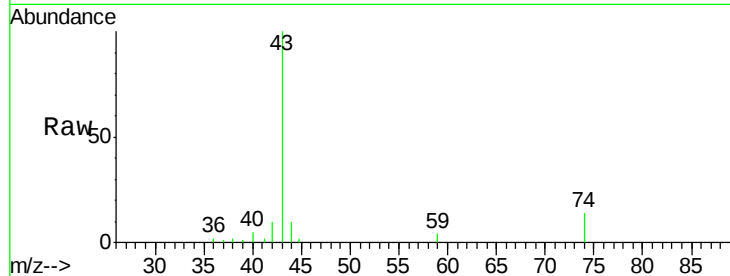




#18  
Methyl Acetate  
Concen: 7.769 ug/l  
RT: 4.67 min Scan# 454  
Delta R.T. 0.01 min  
Lab File: VW012229.D  
Acq: 28 Aug 2019 02:50

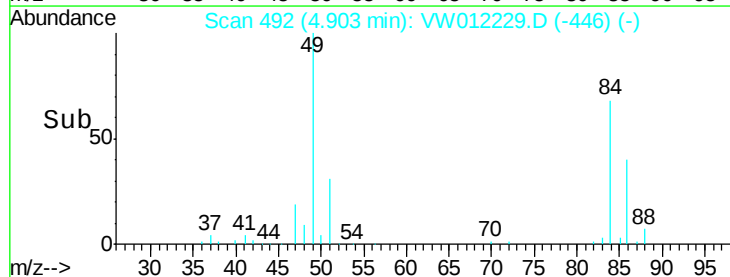
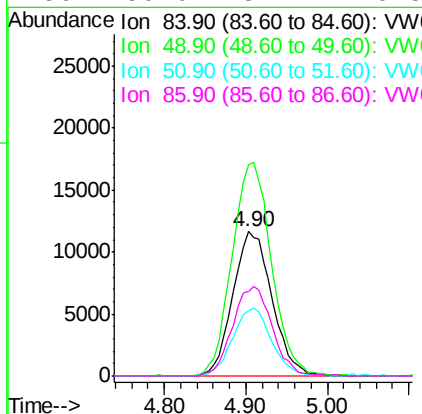
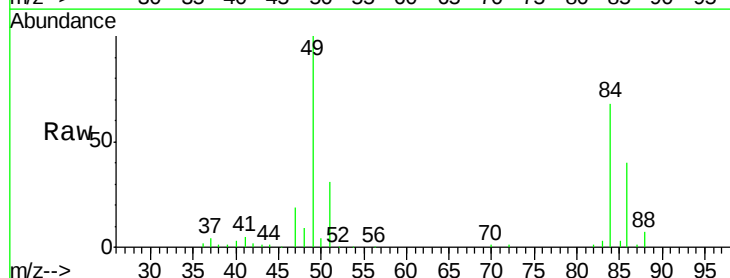
Instrument :  
MSVOA\_W  
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S401-K1-1.0-1.5-082619-FD

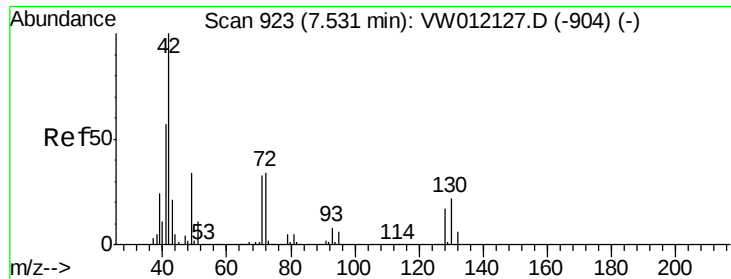
Tot Ion: 43 Resp: 16170  
Ion Ratio Lower Upper  
43 100  
74 15.8 15.7 23.5



#20  
Methylene Chloride  
Concen: 12.179 ug/l  
RT: 4.90 min Scan# 492  
Delta R.T. -0.02 min  
Lab File: VW012229.D  
Acq: 28 Aug 2019 02:50

Tgt Ion: 84 Resp: 38690  
Ion Ratio Lower Upper  
84 100  
49 146.2 117.8 176.8  
51 45.1 35.6 53.4  
86 59.0 51.2 76.8

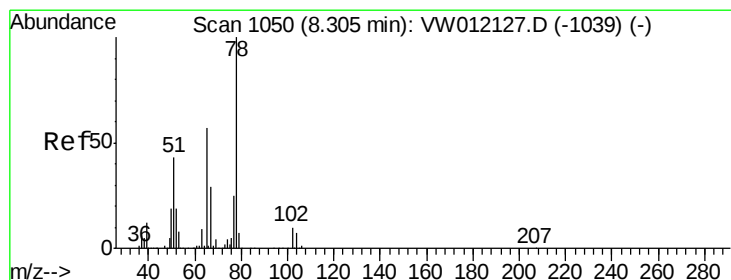
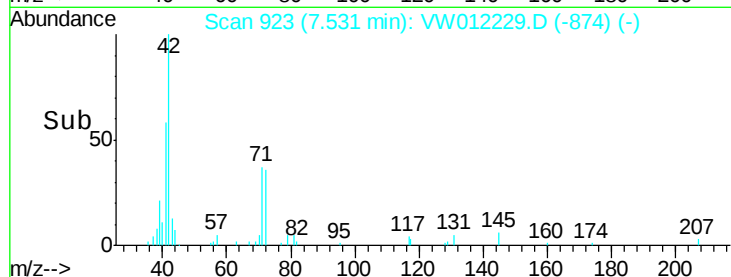
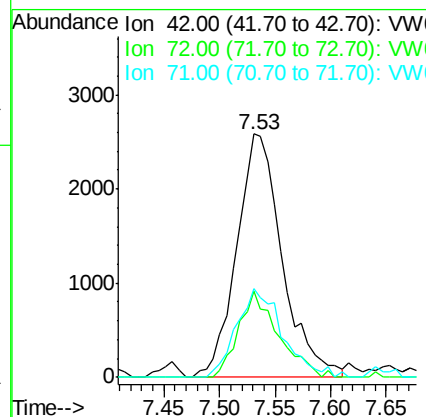
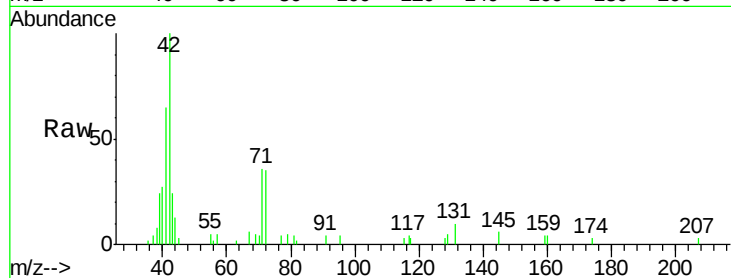




#29  
Tetrahydrofuran  
Concen: 10.737 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW012229.D  
Acq: 28 Aug 2019 02:50

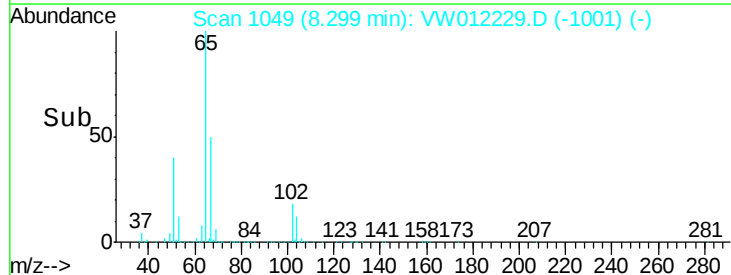
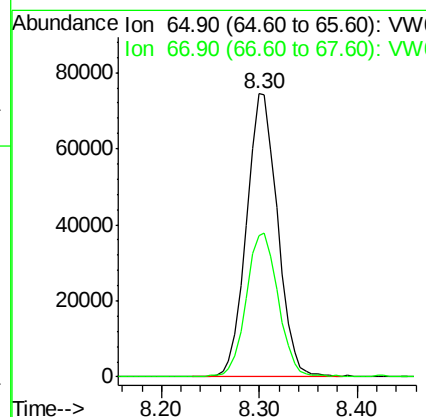
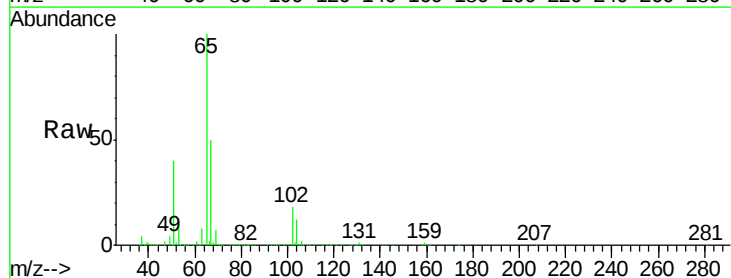
Instrument :  
MSVOA\_W  
ClientSampleId :  
S401-K1-1.0-1.5-082619-FD

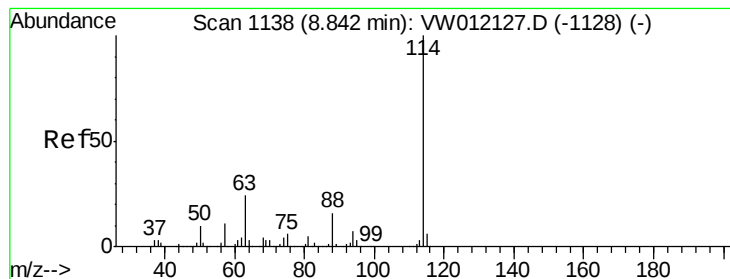
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 31.0  | 27.3  | 40.9  |
| 71      | 36.9  | 25.5  | 38.3  |



#33  
1,2-Dichloroethane-d4  
Concen: 49.923 ug/l  
RT: 8.30 min Scan# 1049  
Delta R.T. -0.01 min  
Lab File: VW012229.D  
Acq: 28 Aug 2019 02:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 51.5  | 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: VW012229.D

Acq: 28 Aug 2019 02:50

Instrument :

MSVOA\_W

ClientSampleId :

S401-K1-1.0-1.5-082619-FD

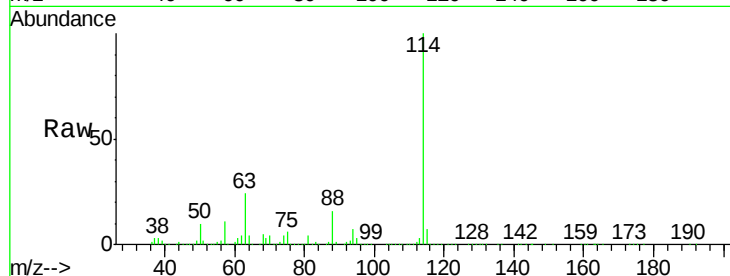
Tot Ion:114 Resp: 451712

Ion Ratio Lower Upper

114 100

63 23.6 0.0 48.6

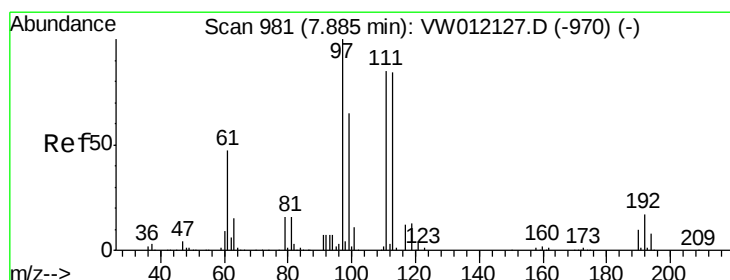
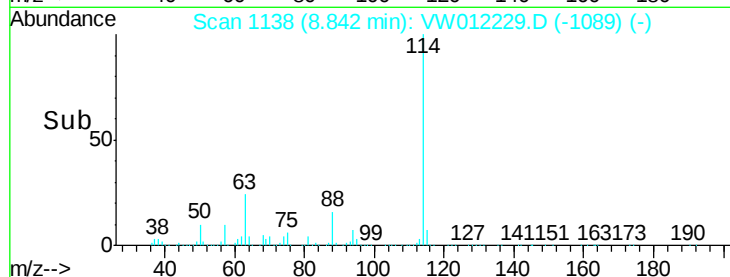
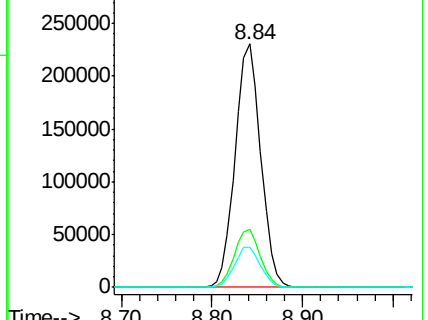
88 16.4 0.0 32.2



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: 49.602 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW012229.D

Acq: 28 Aug 2019 02:50

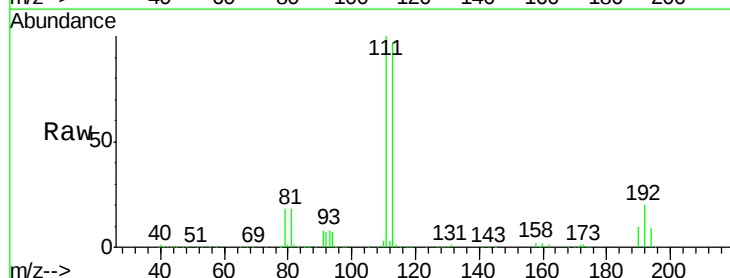
Tgt Ion:113 Resp: 133740

Ion Ratio Lower Upper

113 100

111 103.7 82.7 124.1

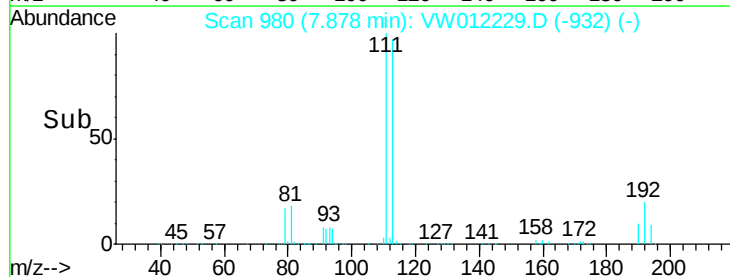
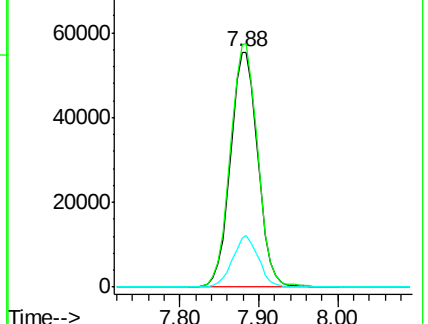
192 20.7 16.2 24.2

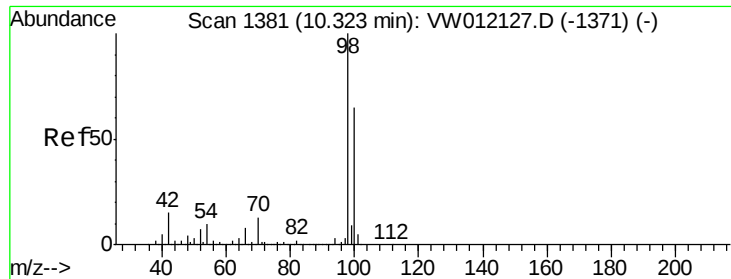


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 50.977 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012229.D

Acq: 28 Aug 2019 02:50

Instrument :

MSVOA\_W

ClientSampleId :

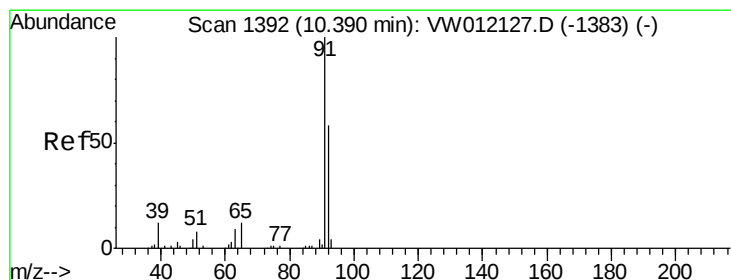
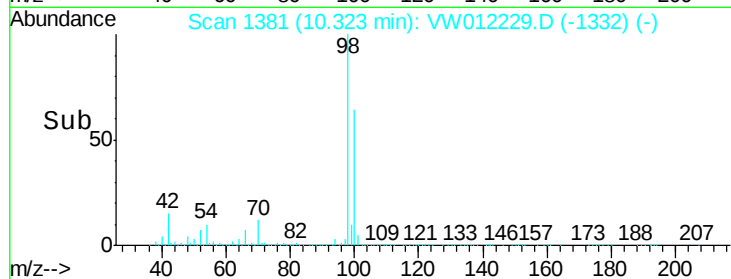
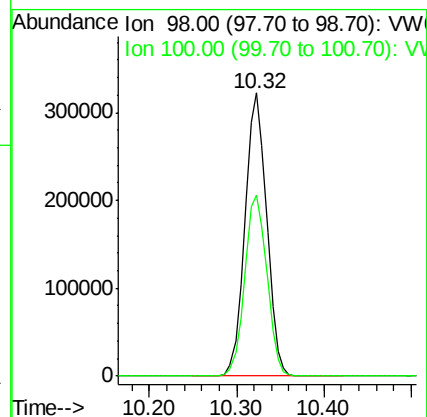
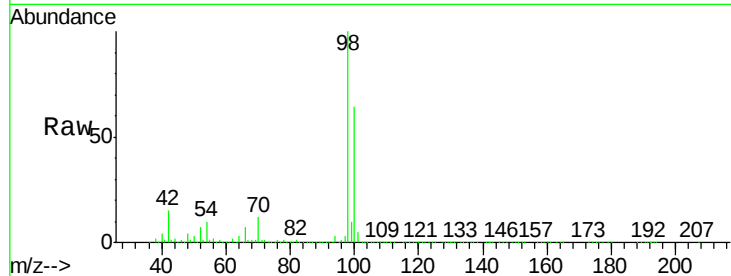
S401-K1-1.0-1.5-082619-FD

Tot Ion: 98 Resp: 557317

Ion Ratio Lower Upper

98 100

100 65.3 52.4 78.6



#52

Toluene

Concen: 1.888 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW012229.D

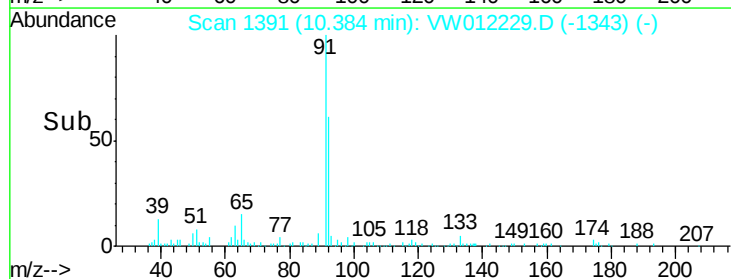
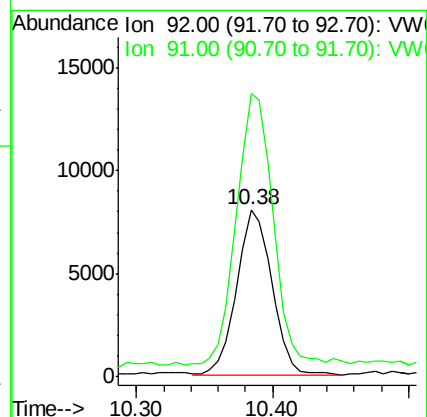
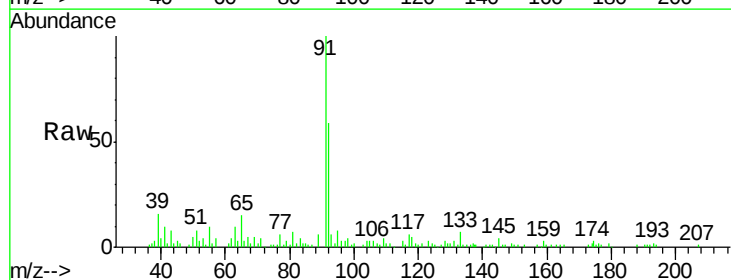
Acq: 28 Aug 2019 02:50

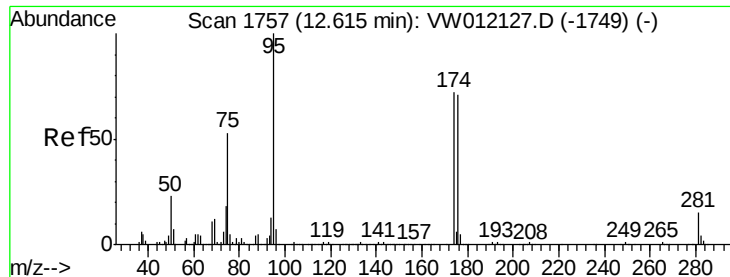
Tgt Ion: 92 Resp: 14460

Ion Ratio Lower Upper

92 100

91 172.1 136.6 204.8

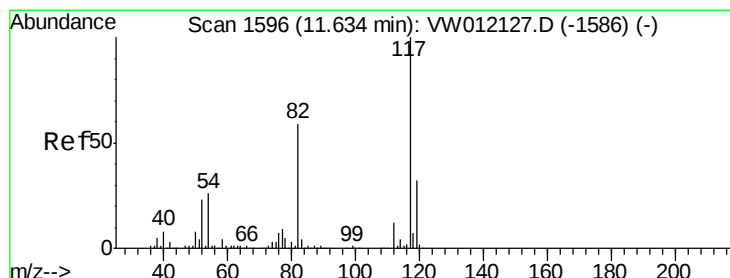
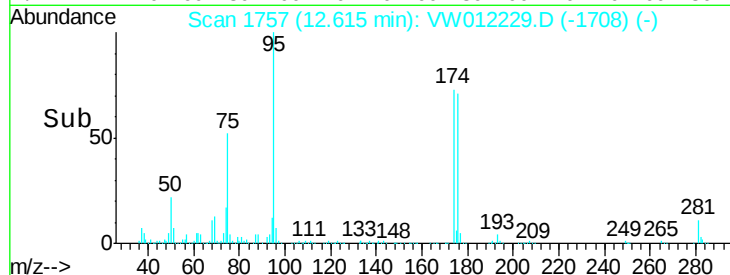
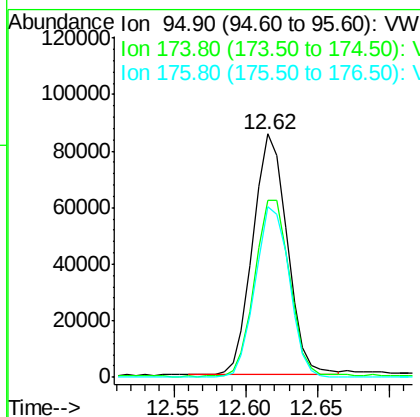
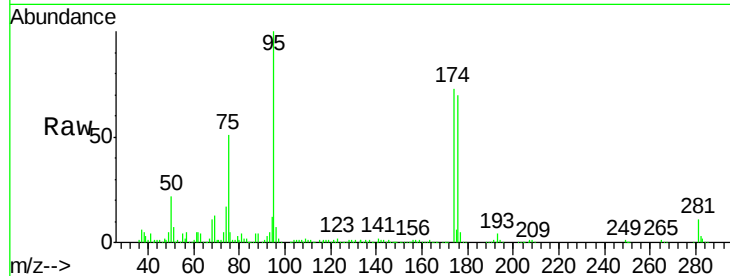




#62  
4-Bromofluorobenzene  
Concen: 36.486 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: VW012229.D  
Acq: 28 Aug 2019 02:50

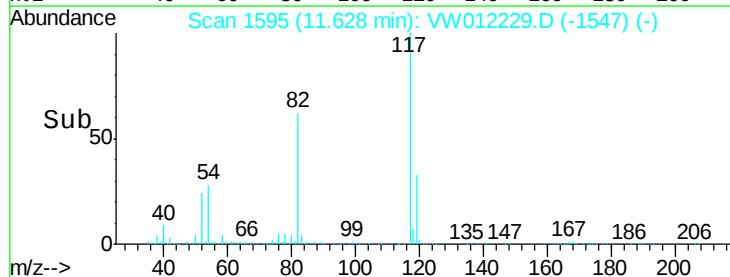
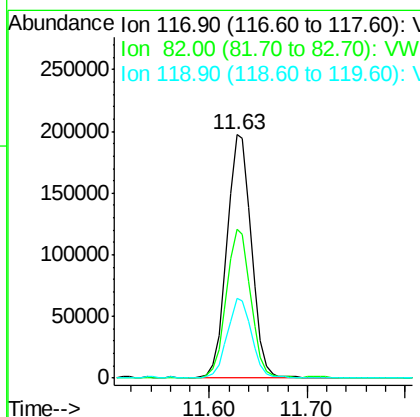
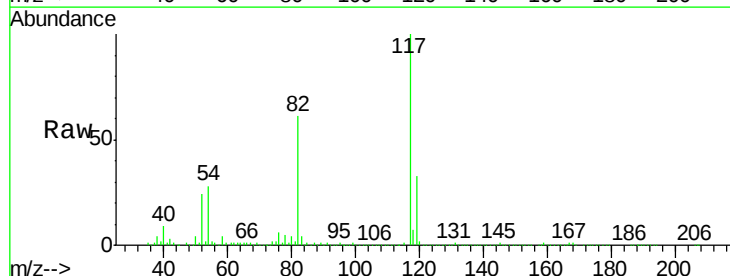
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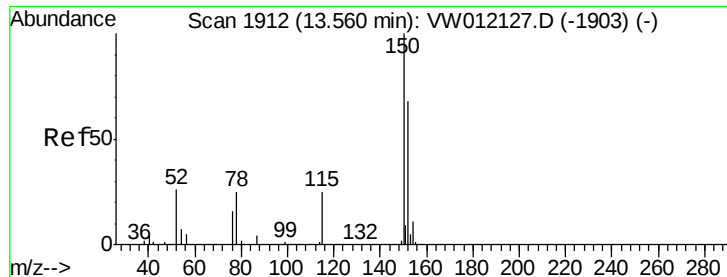
| Tot Ion   | 95  | Resp | 140608 |
|-----------|-----|------|--------|
| Ion Ratio | 100 |      |        |
| Lower     |     | 0.0  | 150.8  |
| Upper     |     | 0.0  | 148.6  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW012229.D  
Acq: 28 Aug 2019 02:50

| Tgt Ion   | 117 | Resp | 338774 |
|-----------|-----|------|--------|
| Ion Ratio | 100 |      |        |
| Lower     |     | 47.4 | 71.2   |
| Upper     |     | 25.4 | 38.2   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012229.D

Acq: 28 Aug 2019 02:50

Instrument :

MSVOA\_W

ClientSampleId :

S401-K1-1.0-1.5-082619-FD

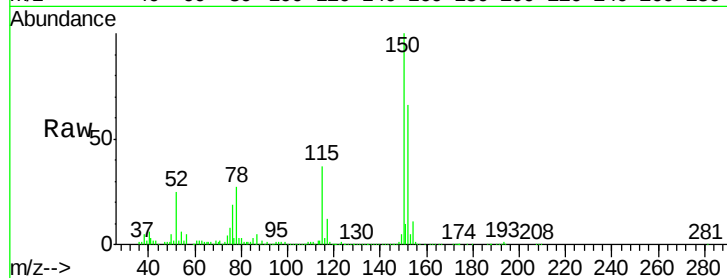
Tot Ion:152 Resp: 88472

Ion Ratio Lower Upper

152 100

115 59.2 30.1 90.3

150 156.0 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

