

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW020619\  
 Data File : VW008528.D  
 Acq On : 06 Feb 2019 15:28  
 Operator : SY/VA  
 Sample : K1356-01  
 Misc : 5.71G/5ML/MSVOA W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SU-01-020519-A

Quant Time: Feb 07 11:03:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 25 11:07:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 524647   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 854539   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 744864   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 316900   | 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   | 283445   | 54.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.98% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 271273   | 54.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.58% |          |
| 50) Toluene-d8              | 10.32 | 98   | 999076   | 49.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.72%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 338316   | 43.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.86%  |          |

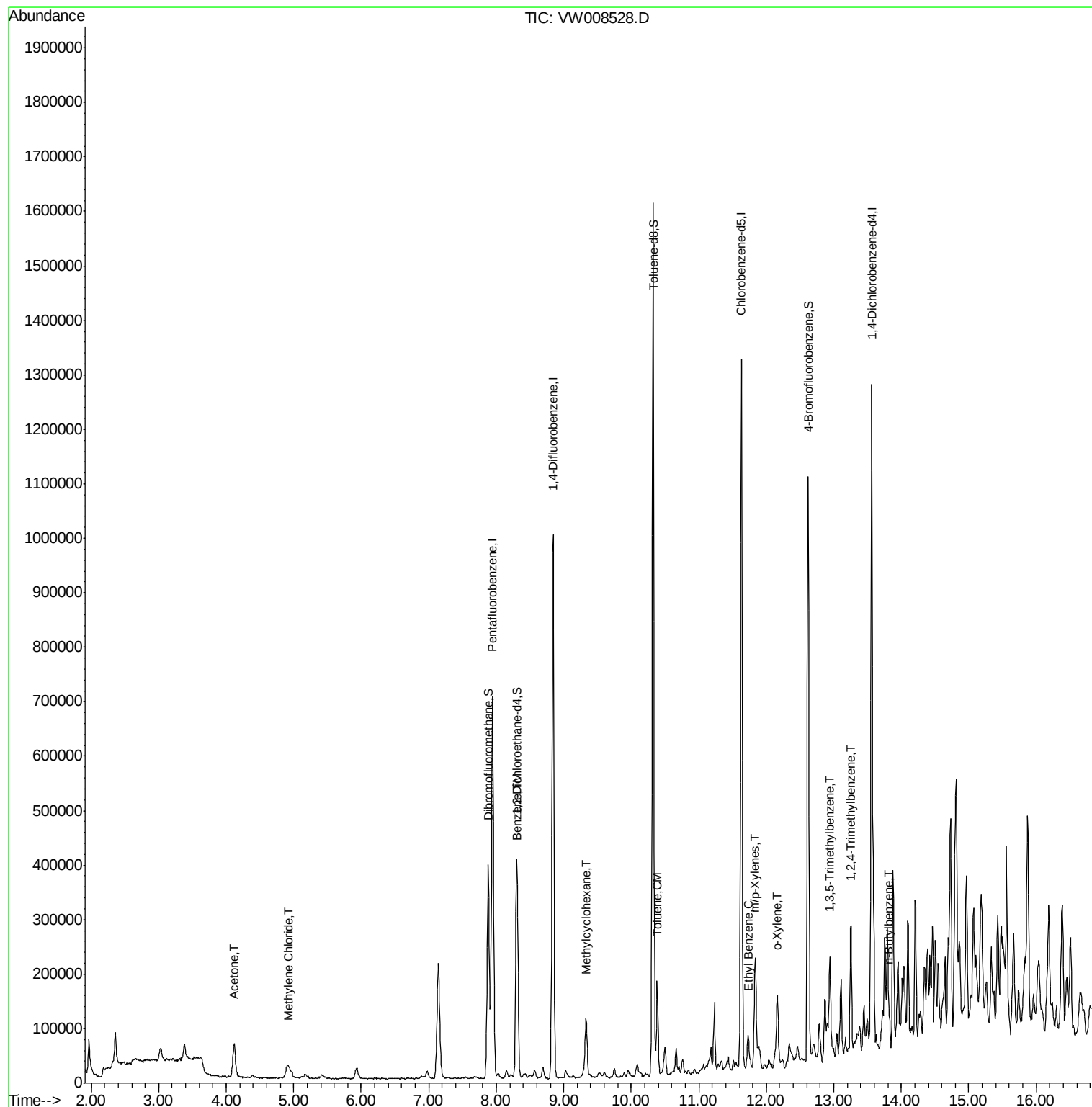
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                | 4.12  | 43   | 107079   | 92.513 | ug/l   | 99     |
| 20) Methylene Chloride     | 4.92  | 84   | 18144    | 3.401  | ug/l   | 94     |
| 39) Methylcyclohexane      | 9.34  | 83   | 45452    | 4.286  | ug/l   | 97     |
| 40) Benzene                | 8.32  | 78   | 52506    | 2.344  | ug/l # | 89     |
| 52) Toluene                | 10.38 | 92   | 72076    | 4.875  | ug/l   | 99     |
| 67) Ethyl Benzene          | 11.73 | 91   | 38013    | 1.360  | ug/l   | 97     |
| 68) m/p-Xylenes            | 11.84 | 106  | 57685    | 5.319  | ug/l   | 94     |
| 69) o-Xylene               | 12.16 | 106  | 35063    | 3.403  | ug/l   | 91     |
| 80) 1,3,5-Trimethylbenzene | 12.94 | 105  | 60279    | 3.053  | ug/l   | 98     |
| 84) 1,2,4-Trimethylbenzene | 13.26 | 105  | 135518   | 6.752  | ug/l   | 100    |
| 89) n-Butylbenzene         | 13.82 | 91   | 26307    | 1.219  | ug/l # | 82     |

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

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Sample : K1356-01  
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Instrument :  
MSVOA\_W  
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Quant Time: Feb 07 11:03:35 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 25 11:07:41 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: VW008528.D

Acq: 06 Feb 2019 15:28

Instrument :

MSVOA\_W

ClientSampleId :

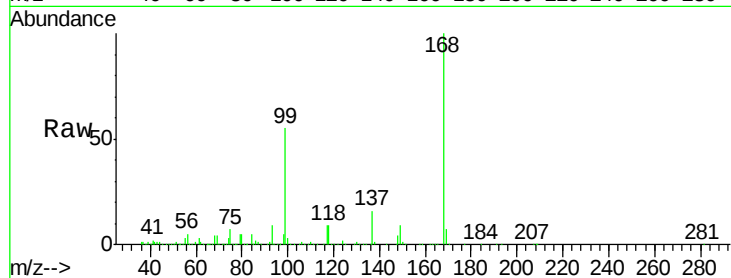
SU-01-020519-A

Tot Ion:168 Resp: 524647

Ion Ratio Lower Upper

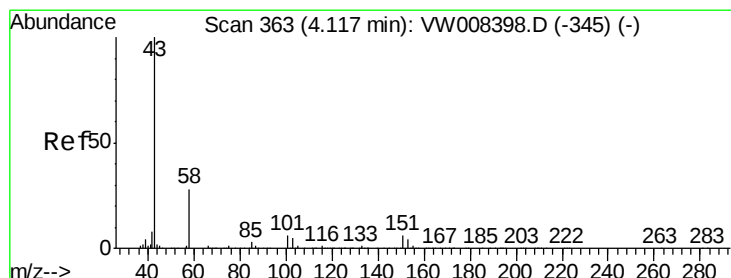
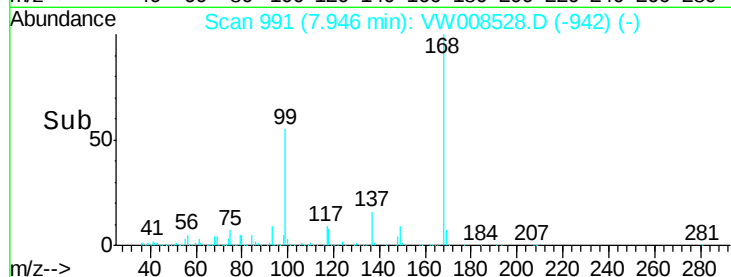
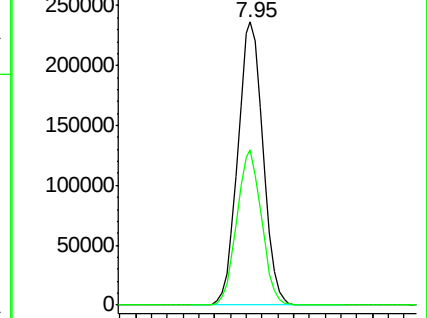
168 100

99 54.9 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 92.513 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW008528.D

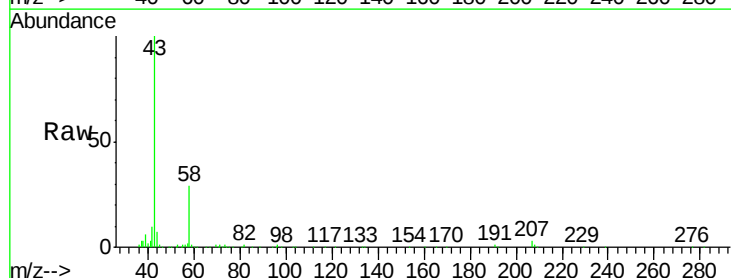
Acq: 06 Feb 2019 15:28

Tgt Ion: 43 Resp: 107079

Ion Ratio Lower Upper

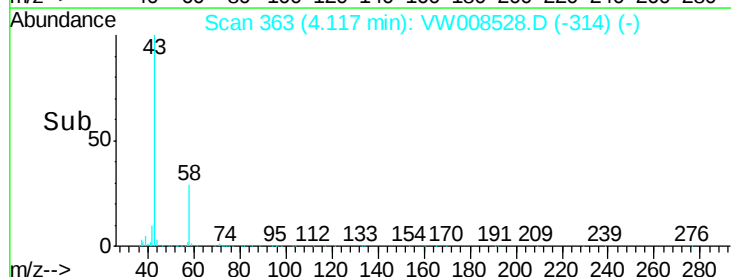
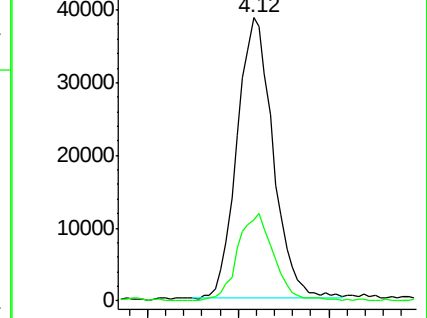
43 100

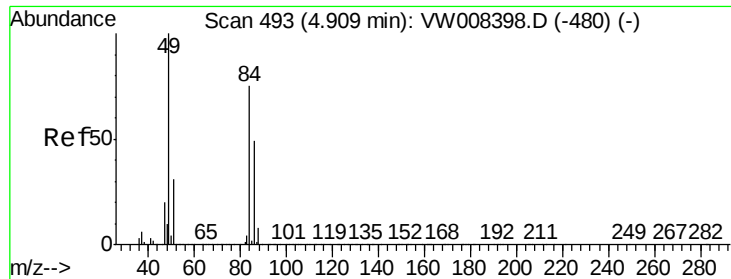
58 28.8 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

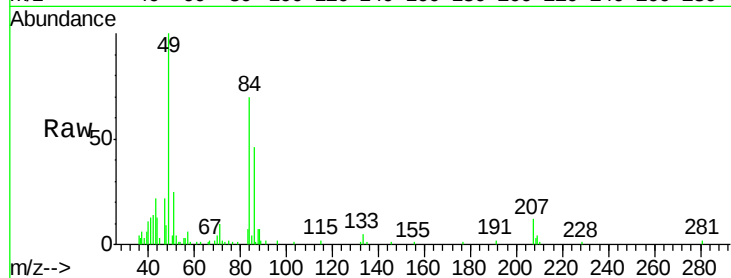




#20  
Methvlene Chloride  
Concen: 3.401 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW008528.D  
Acq: 06 Feb 2019 15:28

Instrument :  
MSVOA\_W  
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SU-01-020519-A

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 18144 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 141.8 | 106.8 | 160.2 |
| 51       | 35.2  | 32.9  | 49.3  |
| 86       | 65.6  | 52.2  | 78.2  |



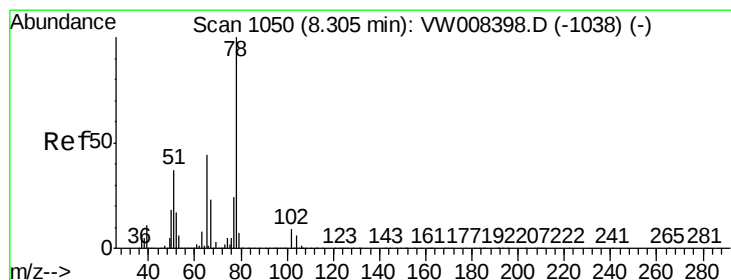
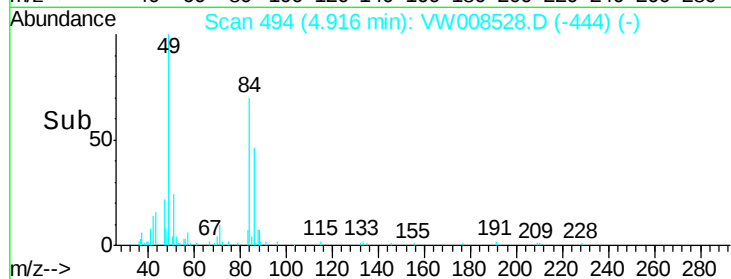
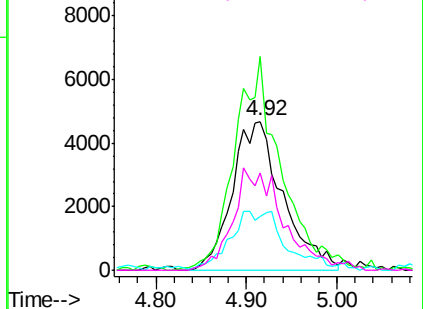
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

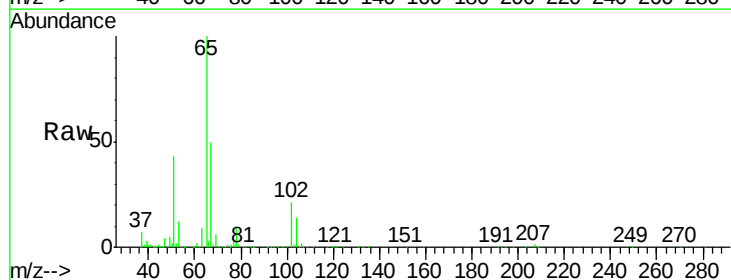
Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#33  
1,2-Dichloroethane-d4  
Concen: 54.993 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. 0.00 min  
Lab File: VW008528.D  
Acq: 06 Feb 2019 15:28

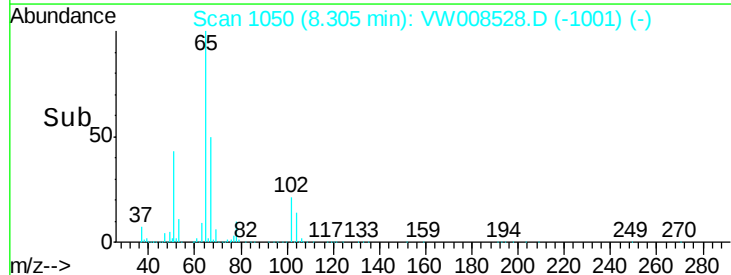
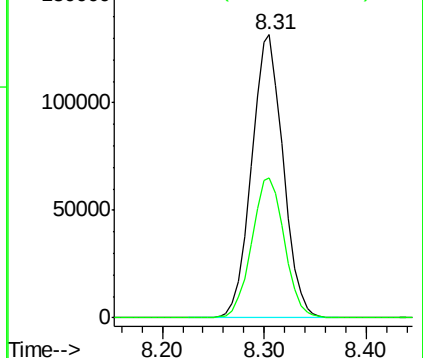
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 283445 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 51.4  | 0.0   | 104.0  |



Abundance

Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

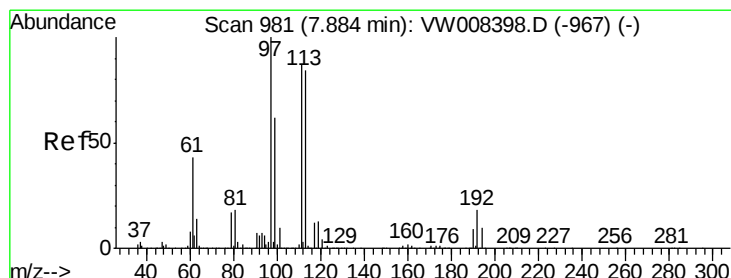
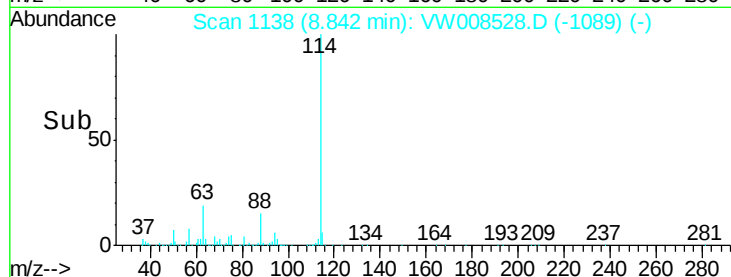
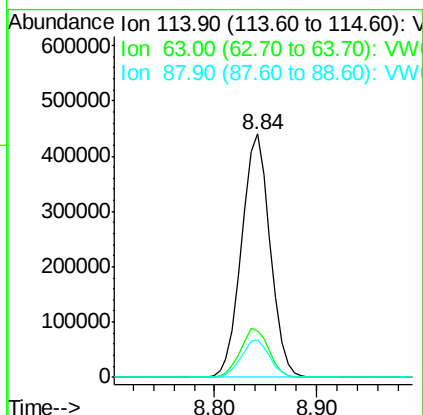
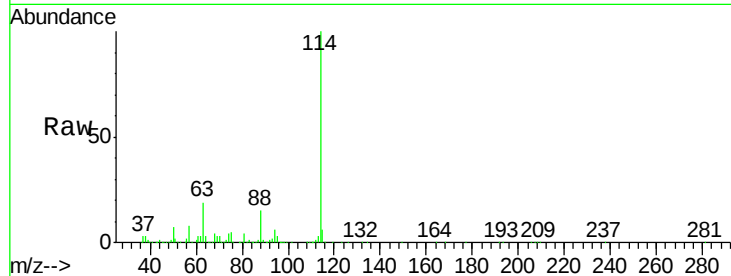




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW008528.D  
 Acq: 06 Feb 2019 15:28

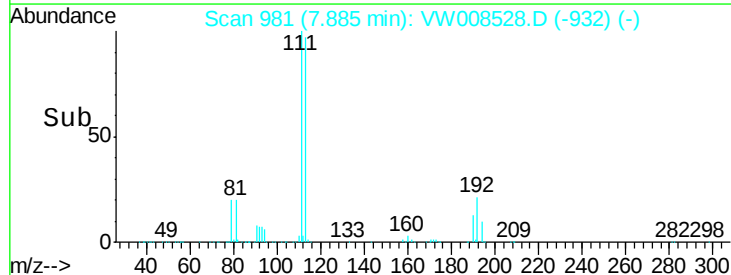
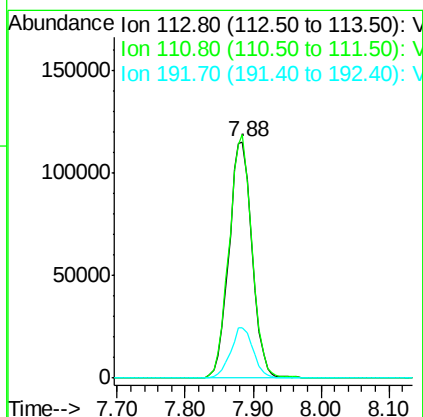
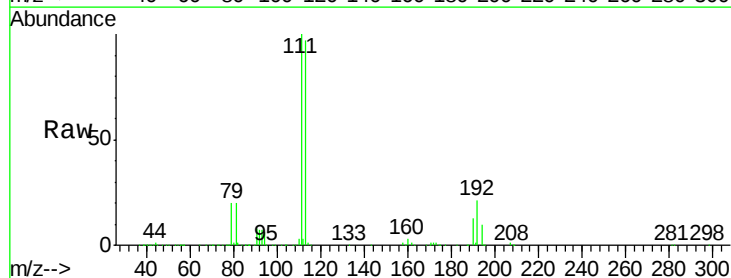
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 MSVOA\_W  
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 SU-01-020519-A

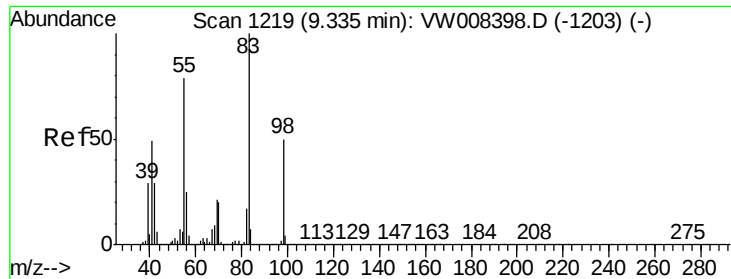
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.3  | 0.0   | 43.6  |
| 88      | 15.2  | 0.0   | 31.8  |



#35  
 Dibromofluoromethane  
 Concen: 54.290 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW008528.D  
 Acq: 06 Feb 2019 15:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.5 | 81.0  | 121.4 |
| 192     | 21.1  | 16.8  | 25.2  |

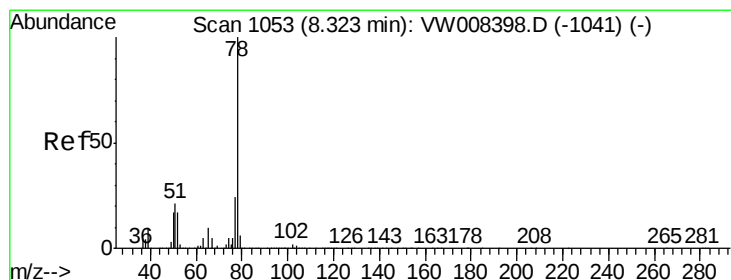
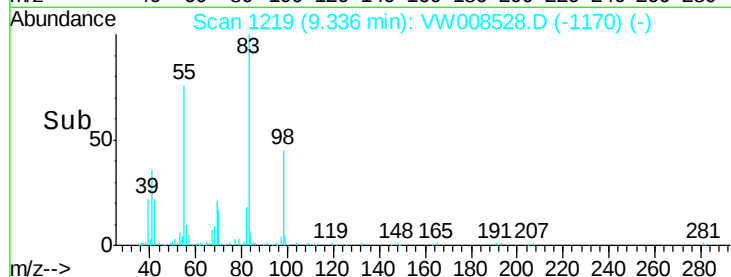
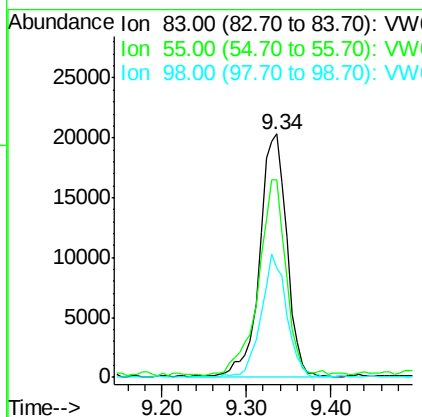
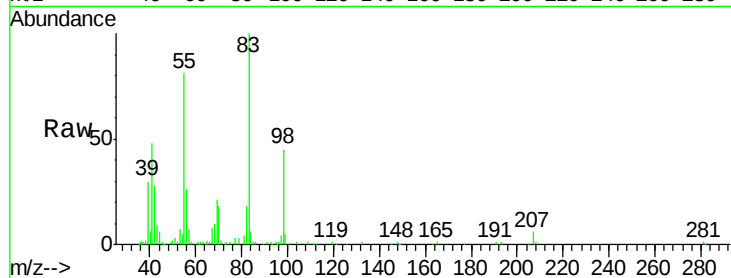




#39  
Methvlcvclohexane  
Concen: 4.286 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. 0.00 min  
Lab File: VW008528.D  
Acq: 06 Feb 2019 15:28

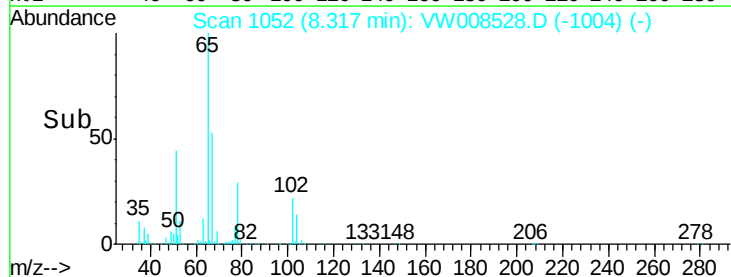
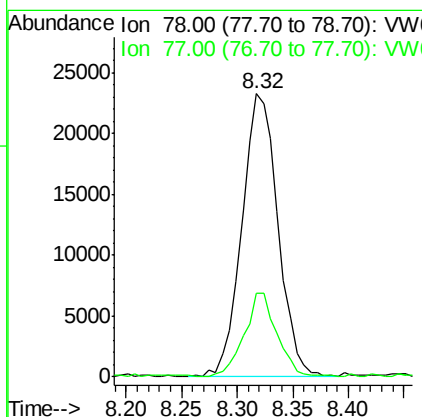
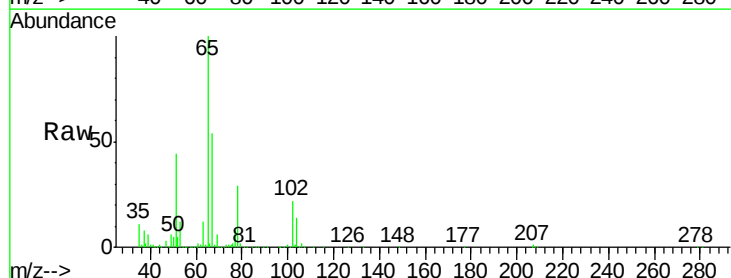
Instrument :  
MSVOA\_W  
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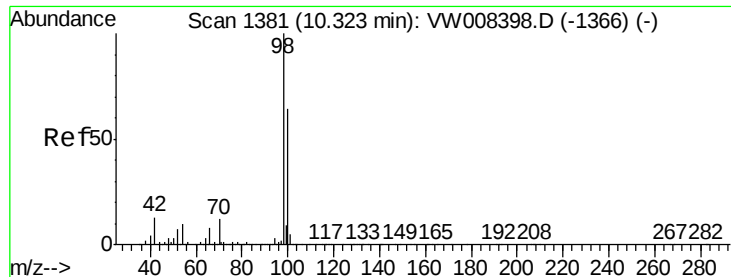
Tot Ion: 83 Resp: 45452  
Ion Ratio Lower Upper  
83 100  
55 79.4 63.3 94.9  
98 44.8 39.7 59.5



#40  
Benzene  
Concen: 2.344 ug/l  
RT: 8.32 min Scan# 1052  
Delta R.T. -0.01 min  
Lab File: VW008528.D  
Acq: 06 Feb 2019 15:28

Tgt Ion: 78 Resp: 52506  
Ion Ratio Lower Upper  
78 100  
77 29.4 19.0 28.6#





#50

Toluene-d8

Concen: 49.861 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008528.D

Acq: 06 Feb 2019 15:28

Instrument :

MSVOA\_W

ClientSampleId :

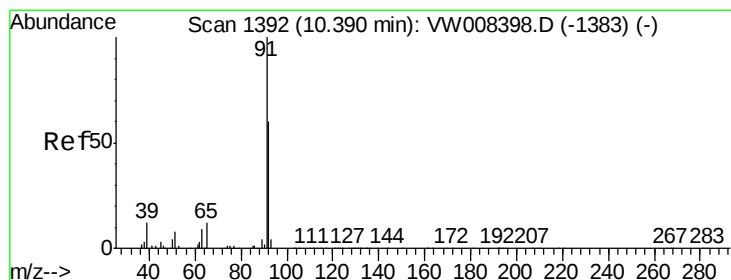
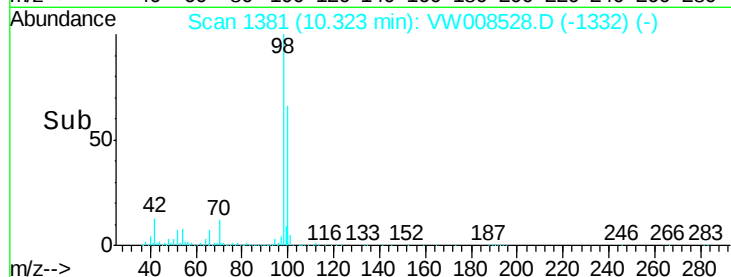
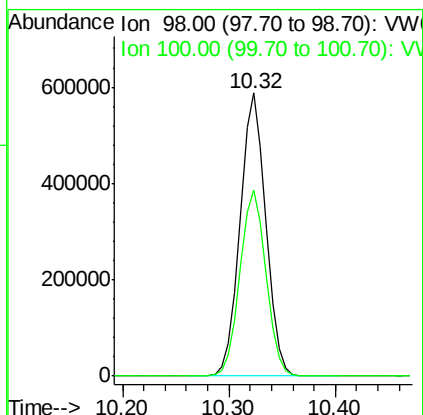
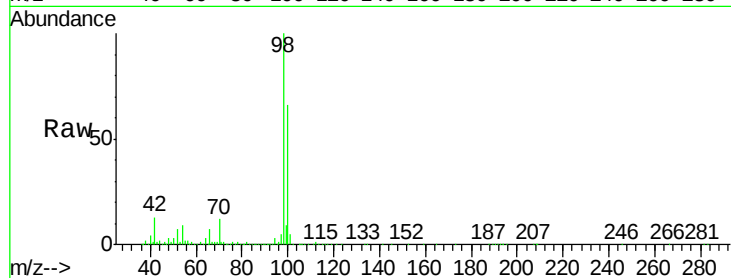
SU-01-020519-A

Tot Ion: 98 Resp: 999076

Ion Ratio Lower Upper

98 100

100 66.6 52.6 78.8



#52

Toluene

Concen: 4.875 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW008528.D

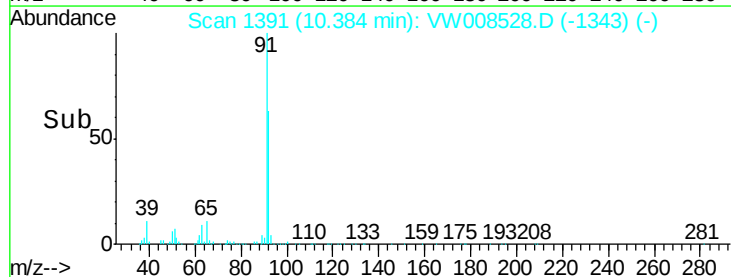
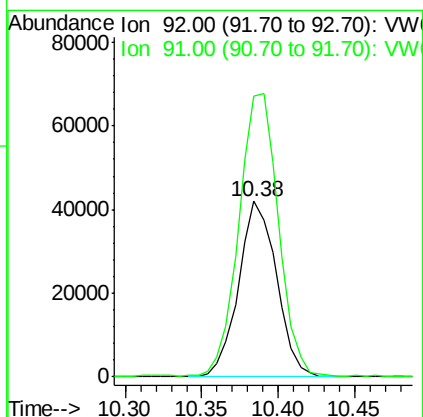
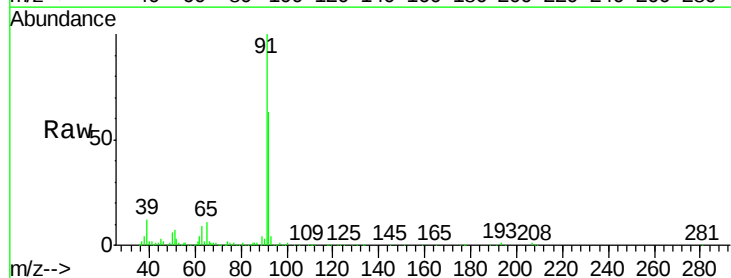
Acq: 06 Feb 2019 15:28

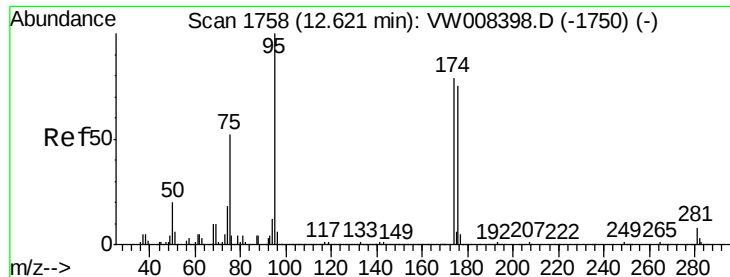
Tgt Ion: 92 Resp: 72076

Ion Ratio Lower Upper

92 100

91 167.6 135.5 203.3

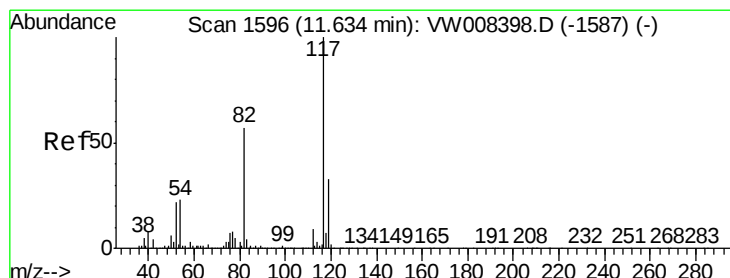
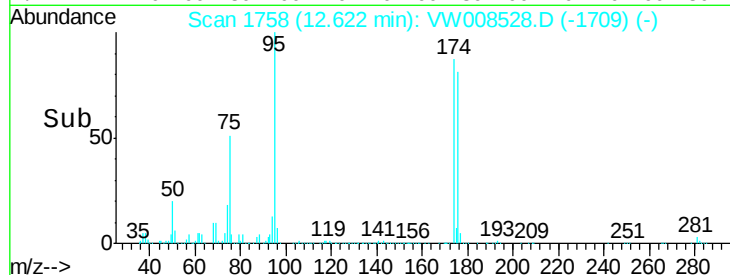
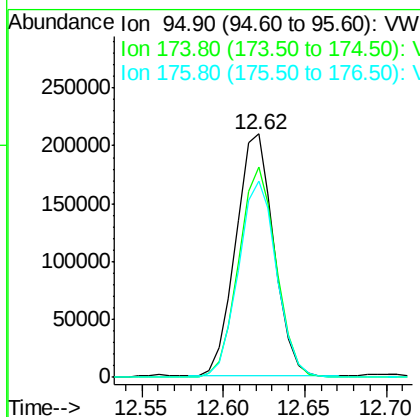
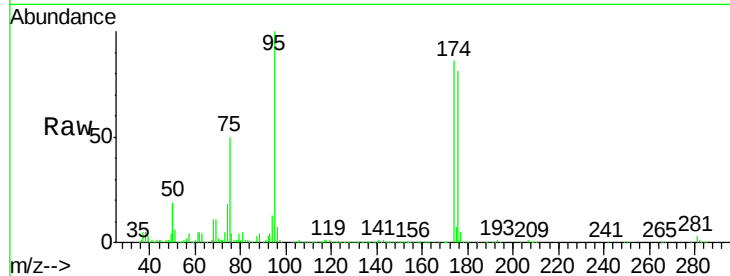




#62  
4-Bromofluorobenzene  
Concen: 43.926 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW008528.D  
Acq: 06 Feb 2019 15:28

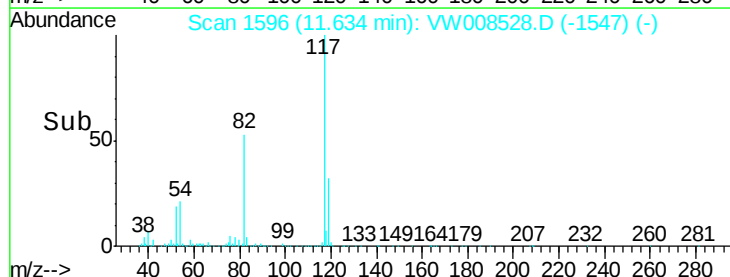
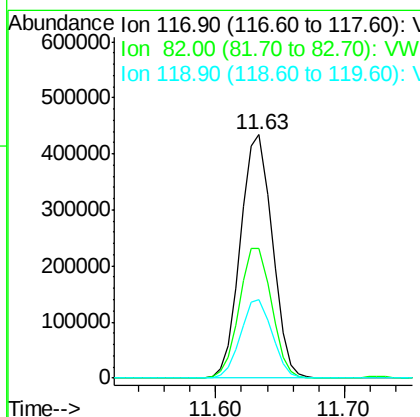
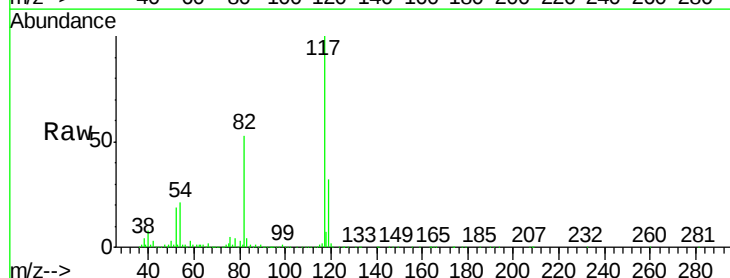
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MSVOA\_W  
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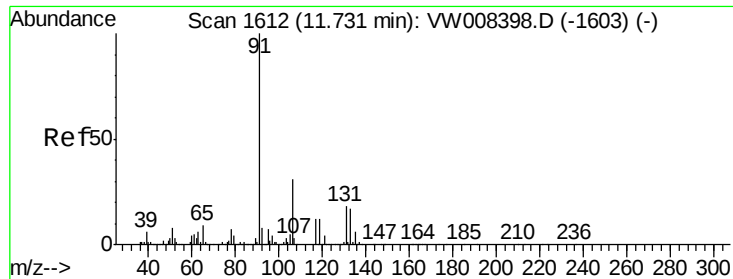
| Tot Ion   | 95    | Resp  | 338316 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 85.6  | 0.0   | 157.6  |
| 176       | 81.8  | 0.0   | 151.8  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW008528.D  
Acq: 06 Feb 2019 15:28

| Tgt Ion   | 117   | Resp  | 744864 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 53.2  | 45.4  | 68.0   |
| 119       | 32.4  | 26.2  | 39.4   |

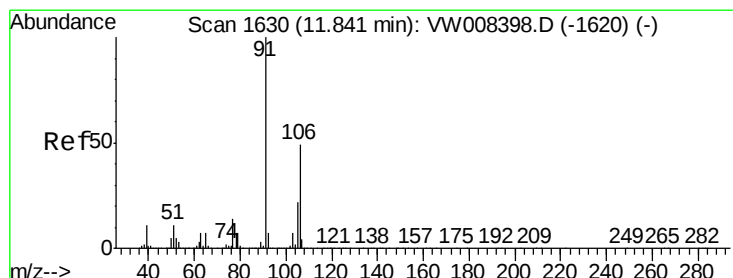
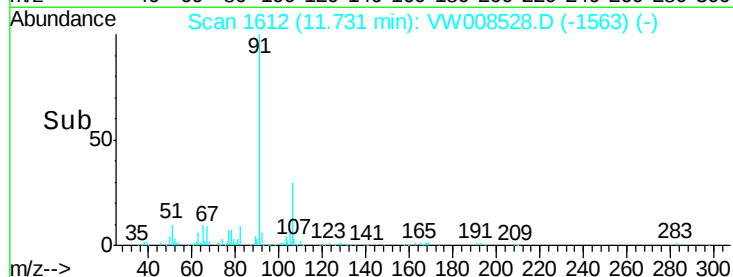
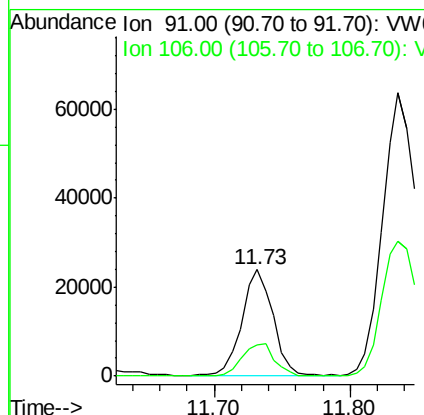
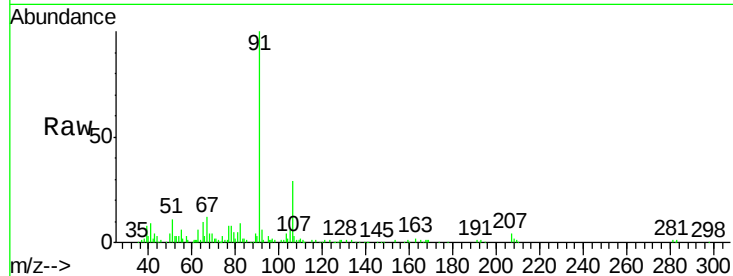




#67  
Ethyl Benzene  
Concen: 1.360 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW008528.D  
Acq: 06 Feb 2019 15:28

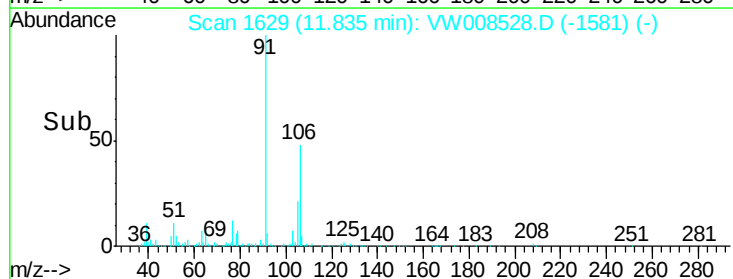
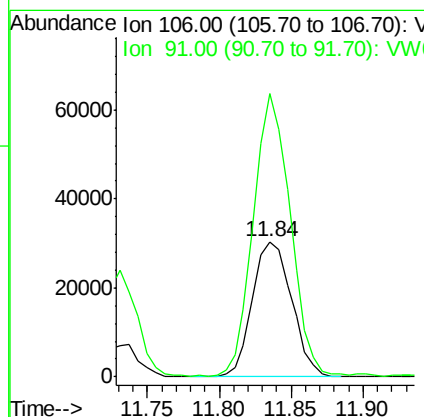
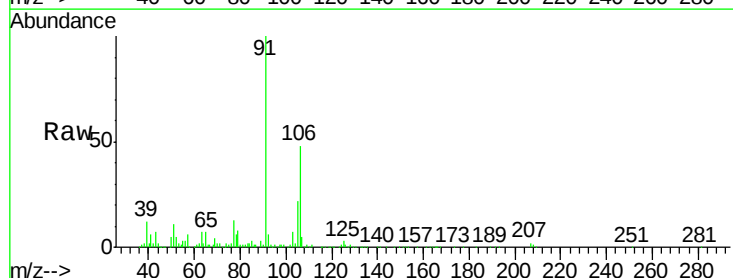
Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-01-020519-A

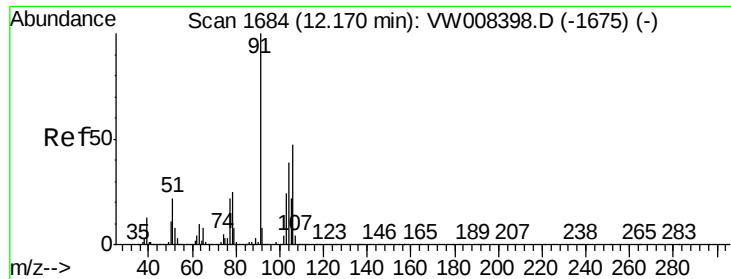
Tot Ion: 91 Resp: 38013  
Ion Ratio Lower Upper  
91 100  
106 29.5 24.7 37.1



#68  
m/p-Xylenes  
Concen: 5.319 ug/l  
RT: 11.84 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW008528.D  
Acq: 06 Feb 2019 15:28

Tgt Ion: 106 Resp: 57685  
Ion Ratio Lower Upper  
106 100  
91 194.6 162.9 244.3

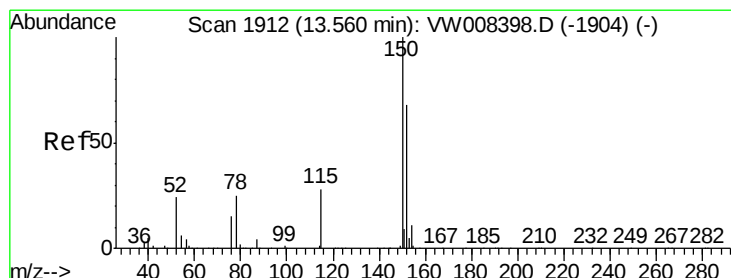
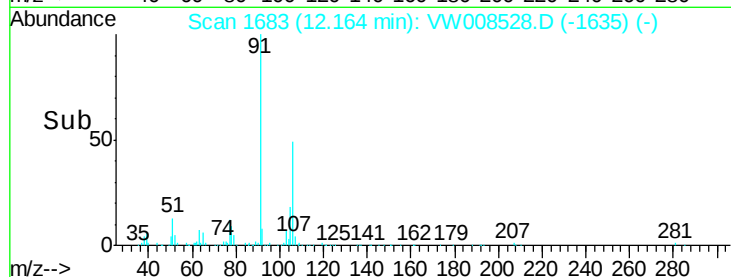
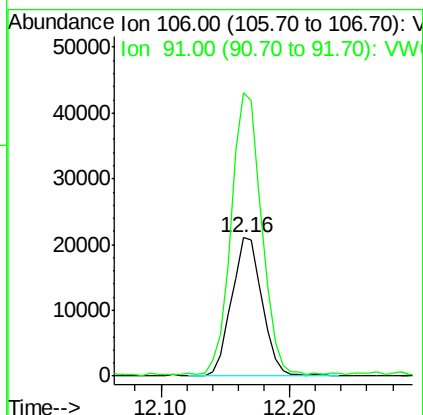
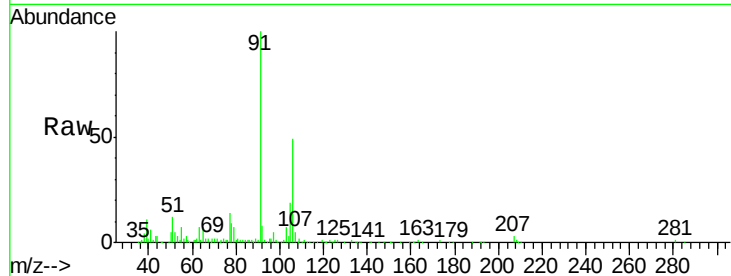




#69  
o-Xylene  
Concen: 3.403 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.01 min  
Lab File: VW008528.D  
Acq: 06 Feb 2019 15:28

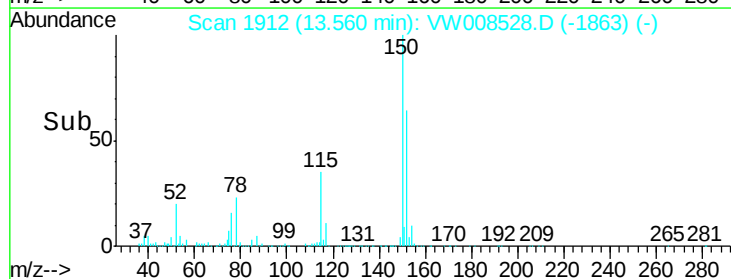
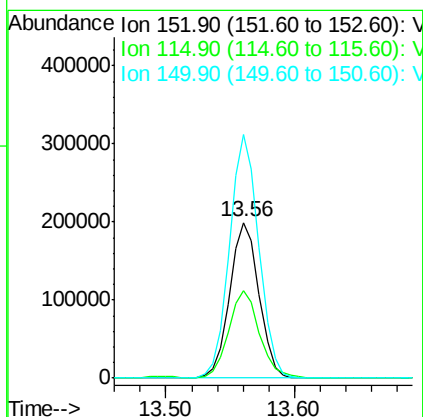
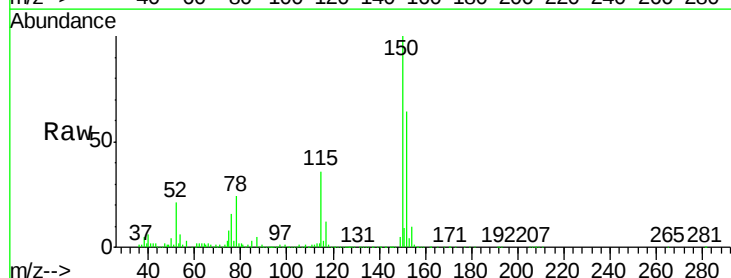
Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-01-020519-A

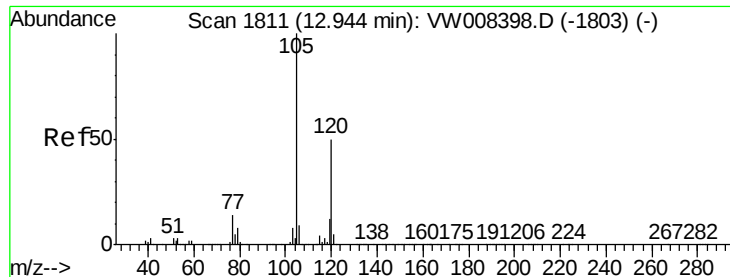
Tot Ion:106 Resp: 35063  
Ion Ratio Lower Upper  
106 100  
91 200.8 107.5 322.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW008528.D  
Acq: 06 Feb 2019 15:28

Tgt Ion:152 Resp: 316900  
Ion Ratio Lower Upper  
152 100  
115 58.6 29.9 89.7  
150 155.6 0.0 351.4





#80

1,3,5-Trimethylbenzene

Concen: 3.053 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW008528.D

Acq: 06 Feb 2019 15:28

Instrument :

MSVOA\_W

ClientSampleId :

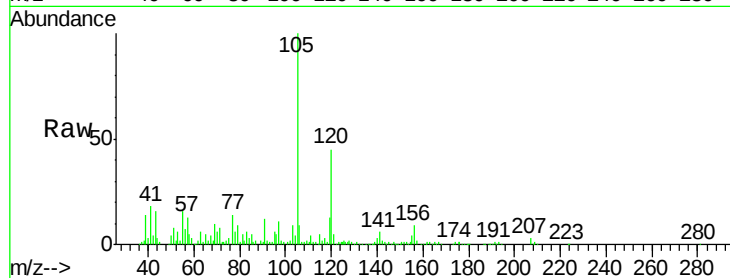
SU-01-020519-A

Tot Ion:105 Resp: 60279

Ion Ratio Lower Upper

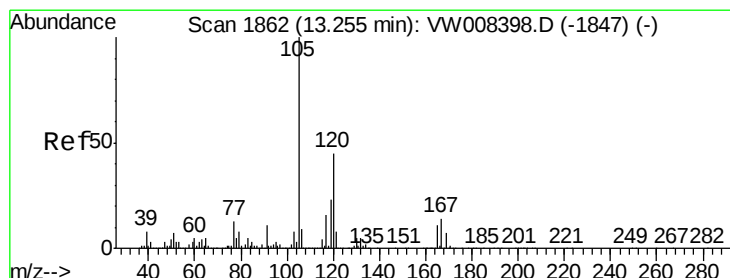
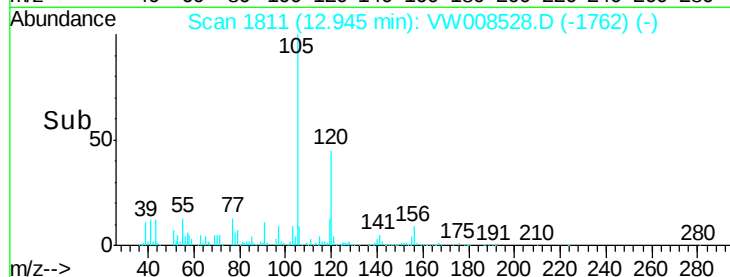
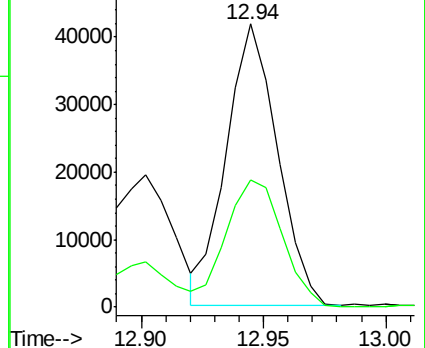
105 100

120 50.5 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 6.752 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW008528.D

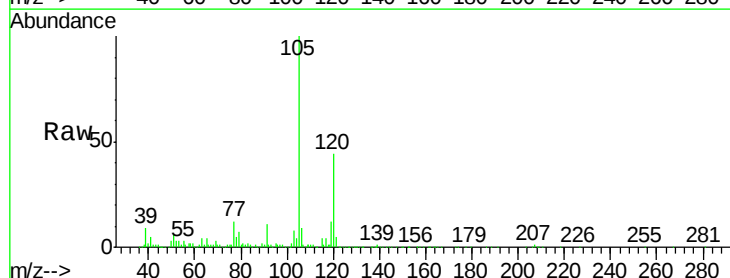
Acq: 06 Feb 2019 15:28

Tgt Ion:105 Resp: 135518

Ion Ratio Lower Upper

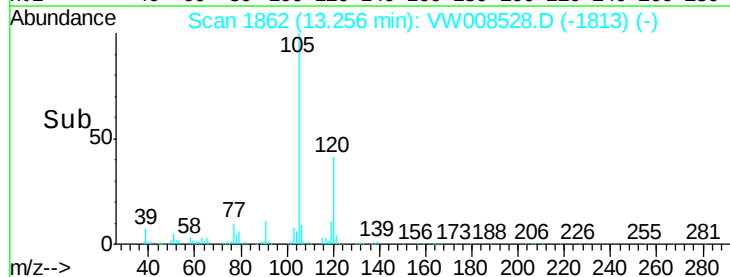
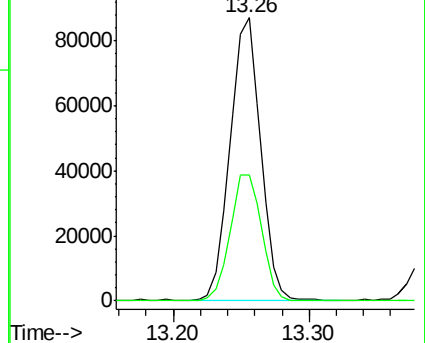
105 100

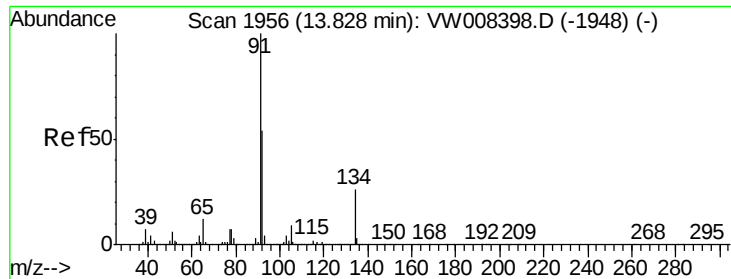
120 46.2 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#89

n-Butylbenzene

Concen: 1.219 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.01 min

Lab File: VW008528.D

Acq: 06 Feb 2019 15:28

Instrument :

MSVOA\_W

ClientSampleId :

SU-01-020519-A

Tot Ion: 91 Resp: 26307

Ion Ratio Lower Upper

91 100

92 56.1 27.4 82.2

134 0.0 13.0 39.0#

