

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092619\  
 Data File : VN058390.D  
 Acq On : 26 Sep 2019 16:49  
 Operator : JC/SP  
 Sample : K5037-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 30315

Quant Time: Sep 27 05:07:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 2019  
 Response via : Initial Calibration

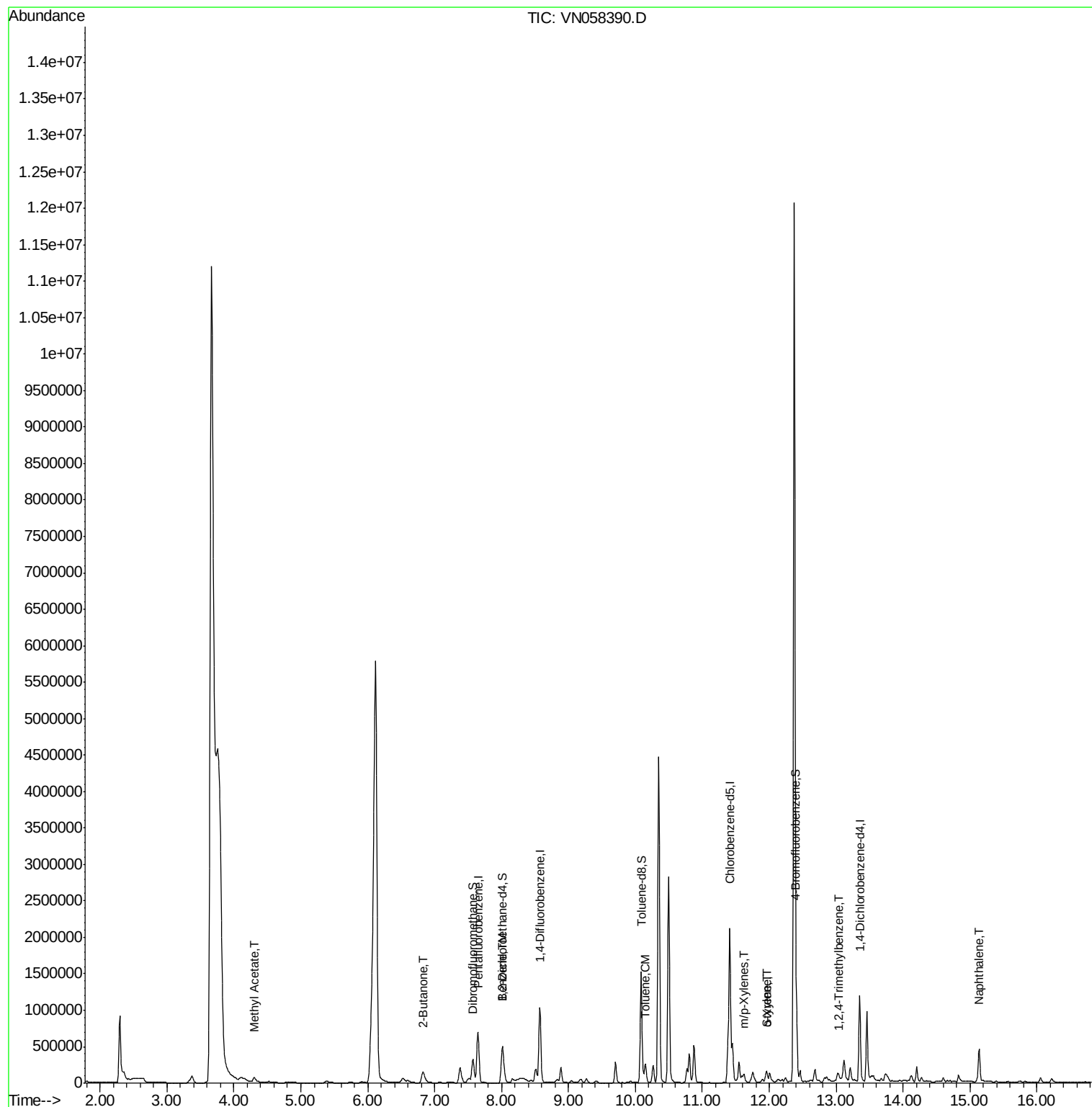
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.65  | 168  | 544495   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.57  | 114  | 864337   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 706869   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 299539   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 374521   | 49.38  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 98.76%  |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 247931   | 47.18  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 94.36%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 1048725  | 51.23  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 102.46% |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 345661   | 45.45  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 90.90%  |          |
| Target Compounds            |       |      |          |        |         |          |
|                             |       |      |          |        | Qvalue  |          |
| 18) Methyl Acetate          | 4.30  | 43   | 128986   | 19.042 | ug/l    | 99       |
| 25) 2-Butanone              | 6.83  | 43   | 324673   | 92.577 | ug/l    | 100      |
| 40) Benzene                 | 8.02  | 78   | 57683    | 3.030  | ug/l    | 97       |
| 52) Toluene                 | 10.15 | 92   | 102639   | 8.602  | ug/l    | 95       |
| 68) m/p-Xylenes             | 11.62 | 106  | 35597    | 4.436  | ug/l    | 97       |
| 69) o-Xylene                | 11.95 | 106  | 17742    | 2.249  | ug/l    | 99       |
| 70) Styrene                 | 11.97 | 104  | 25398    | 1.868  | ug/l    | 97       |
| 84) 1,2,4-Trimethylbenzene  | 13.05 | 105  | 28459    | 1.804  | ug/l    | 88       |
| 95) Naphthalene             | 15.14 | 128  | 337727   | 23.604 | ug/l    | 99       |

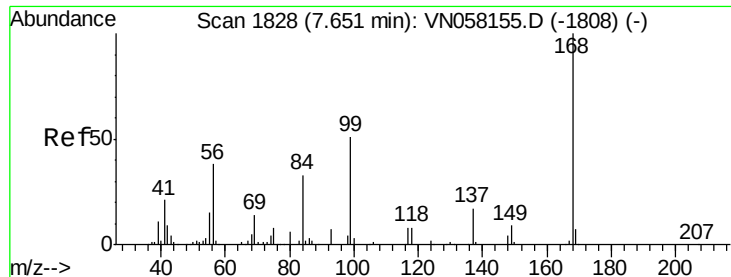
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092619\  
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Sample : K5037-05  
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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
30315

Quant Time: Sep 27 05:07:40 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 19 09:27:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058390.D

Acq: 26 Sep 2019 16:49

Instrument :

MSVOA\_N

ClientSampled :

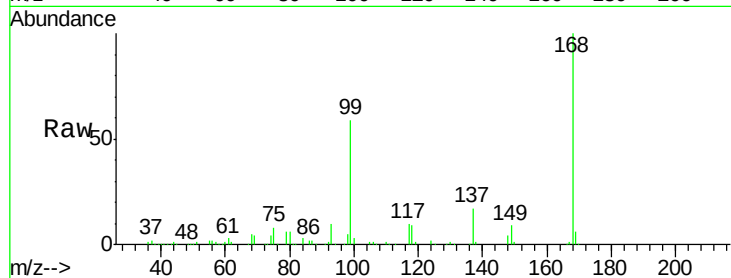
30315

Tot Ion:168 Resp: 544495

Ion Ratio Lower Upper

168 100

99 59.4 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

250000

200000

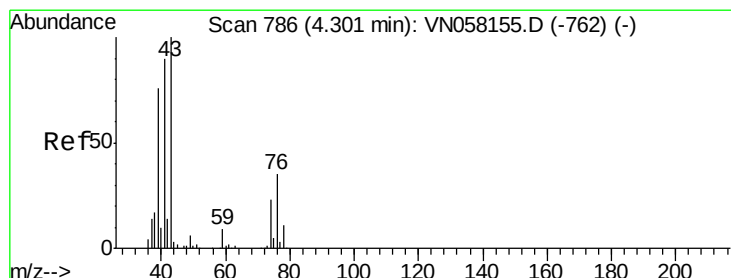
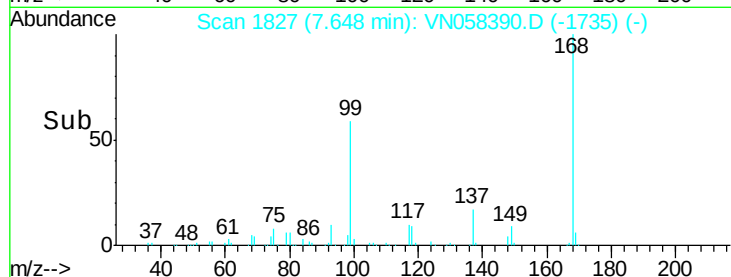
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 19.042 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN058390.D

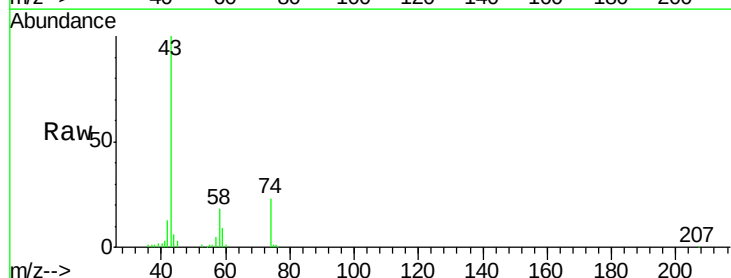
Acq: 26 Sep 2019 16:49

Tgt Ion: 43 Resp: 128986

Ion Ratio Lower Upper

43 100

74 22.7 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.30

50000

40000

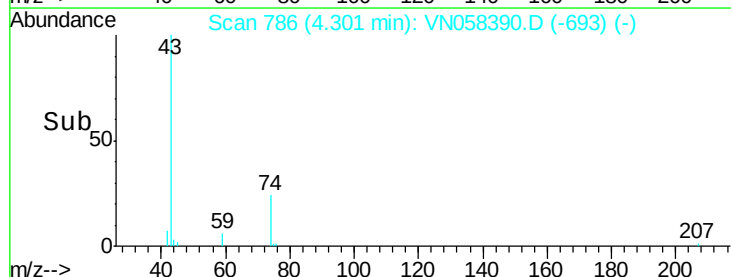
30000

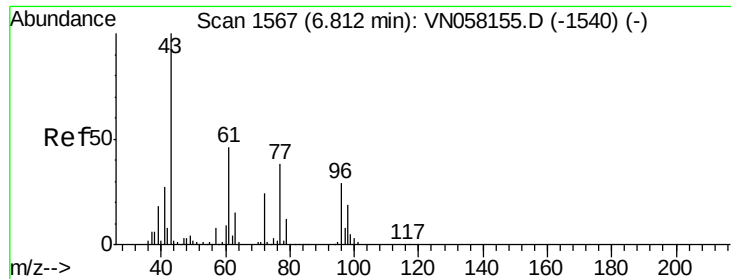
20000

10000

0

Time-->

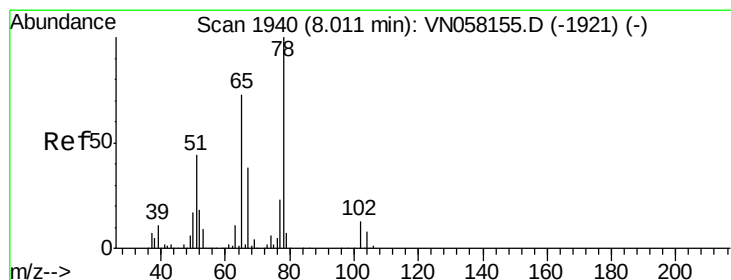
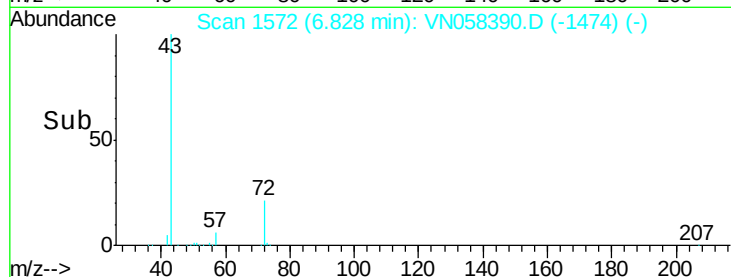
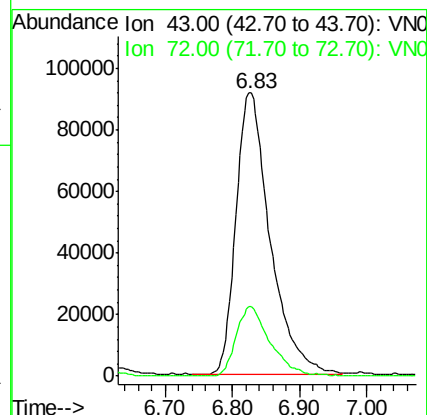
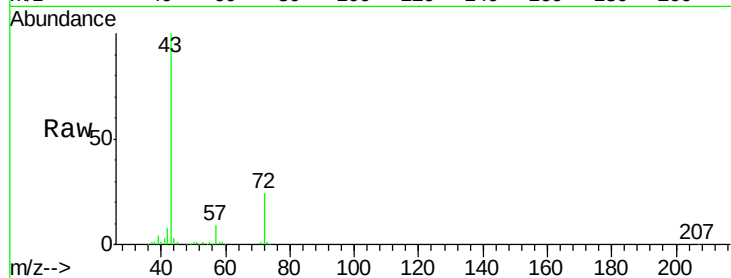




#25  
 2-Butanone  
 Concen: 92.577 ug/l  
 RT: 6.83 min Scan# 1572  
 Delta R.T. 0.02 min  
 Lab File: VN058390.D  
 Acq: 26 Sep 2019 16:49

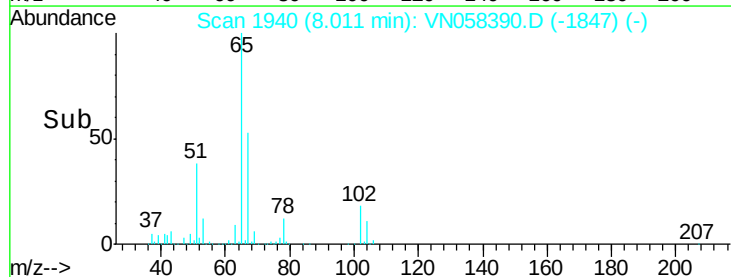
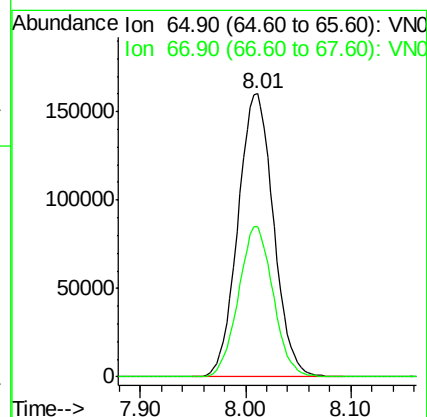
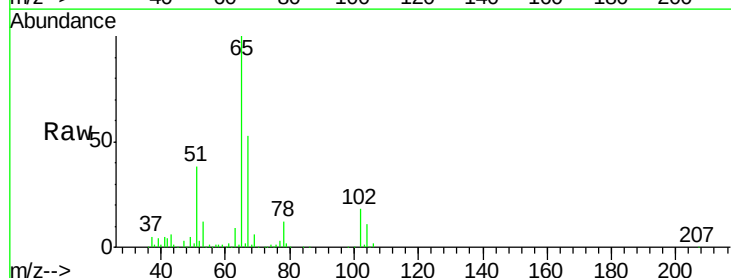
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 30315

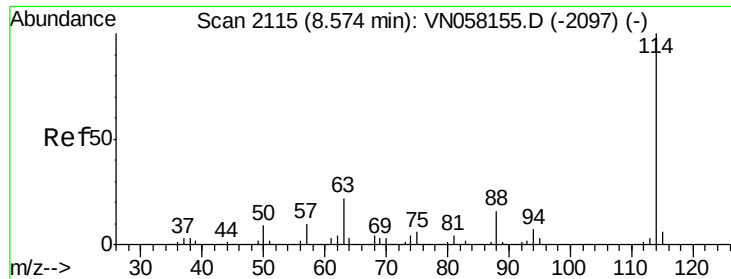
Tot Ion: 43 Resp: 324673  
 Ion Ratio Lower Upper  
 43 100  
 72 24.6 19.5 29.3



#33  
 1,2-Dichloroethane-d4  
 Concen: 49.385 ug/l  
 RT: 8.01 min Scan# 1940  
 Delta R.T. -0.00 min  
 Lab File: VN058390.D  
 Acq: 26 Sep 2019 16:49

Tgt Ion: 65 Resp: 374521  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. -0.00 min

Lab File: VN058390.D

Acq: 26 Sep 2019 16:49

Instrument :

MSVOA\_N

ClientSampled :

30315

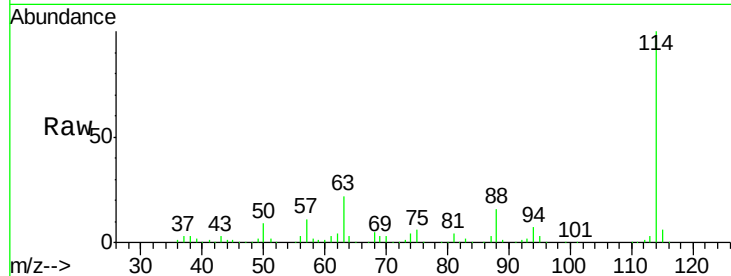
Tot Ion:114 Resp: 864337

Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.2

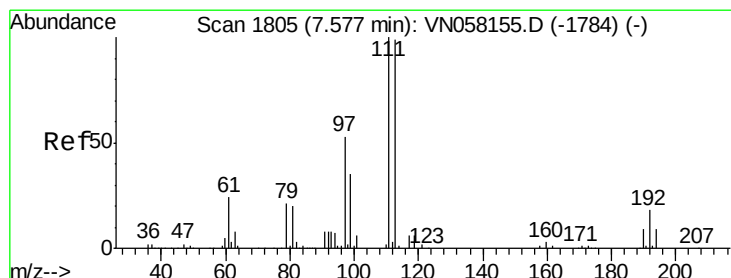
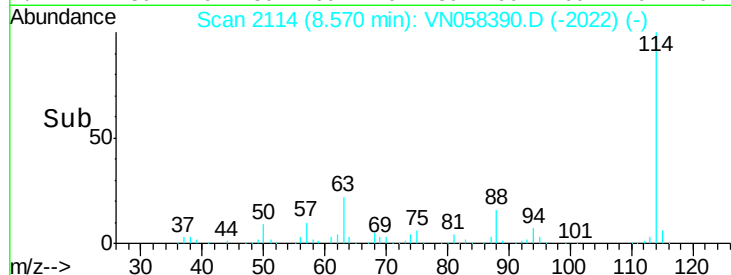
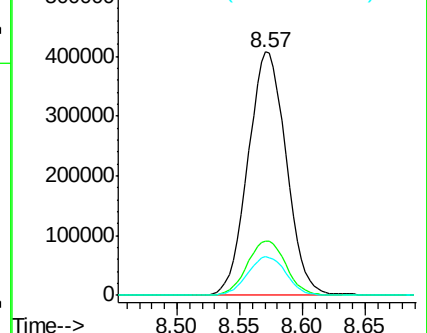
88 15.7 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.185 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN058390.D

Acq: 26 Sep 2019 16:49

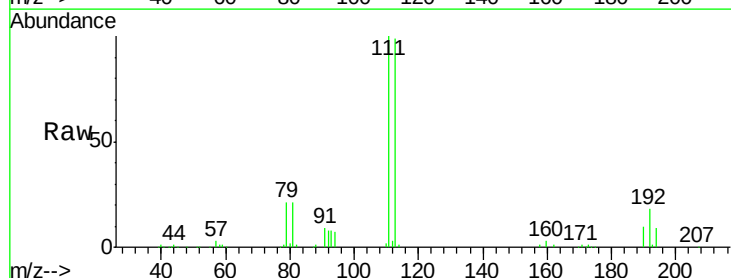
Tgt Ion:113 Resp: 247931

Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.6

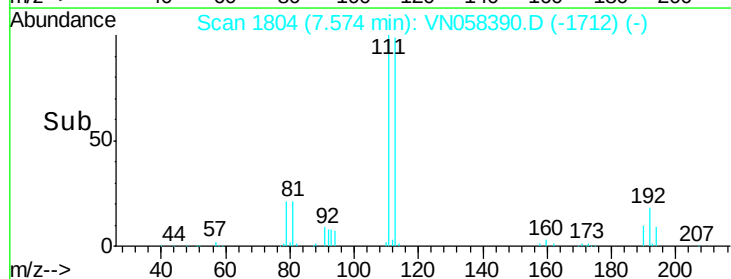
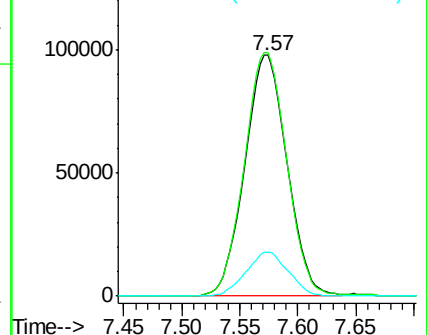
192 18.4 14.5 21.7

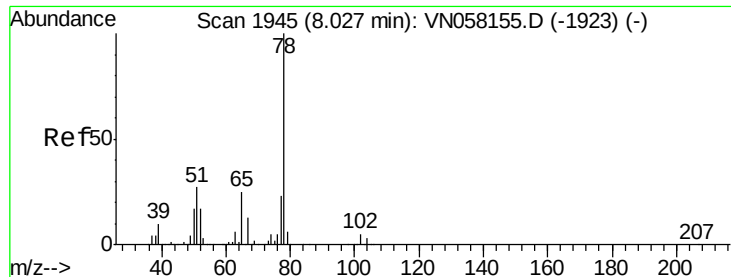


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 3.030 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. -0.01 min

Lab File: VN058390.D

Acq: 26 Sep 2019 16:49

Instrument :

MSVOA\_N

ClientSampled :

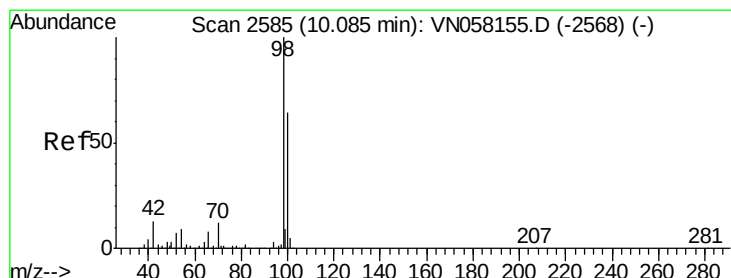
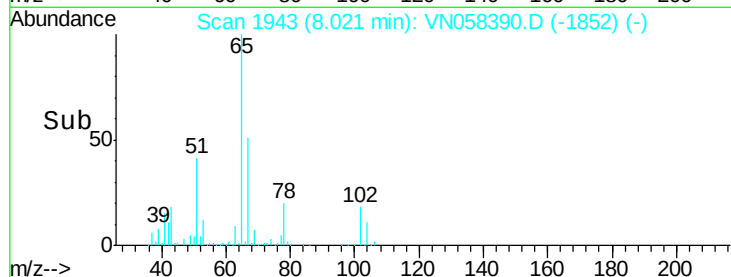
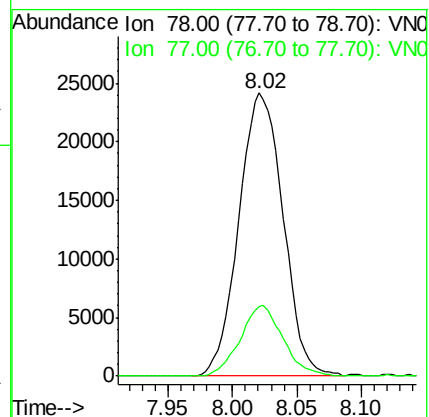
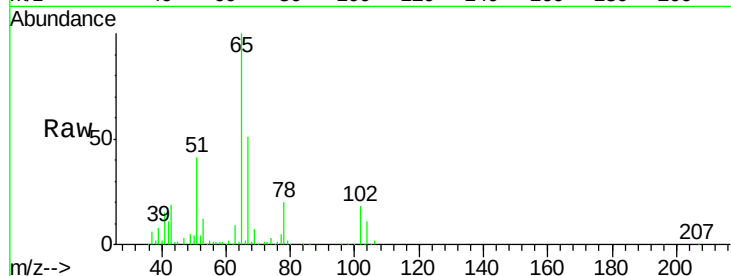
30315

Tot Ion: 78 Resp: 57683

Ion Ratio Lower Upper

78 100

77 24.8 18.8 28.2



#50

Toluene-d8

Concen: 51.226 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058390.D

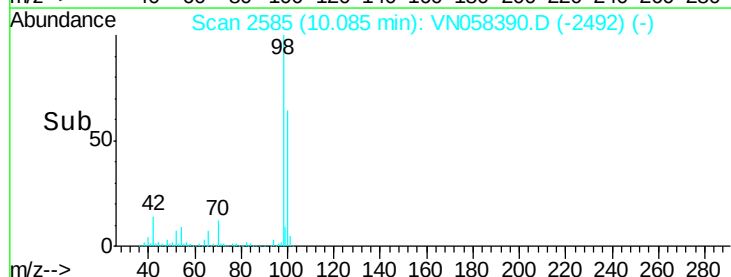
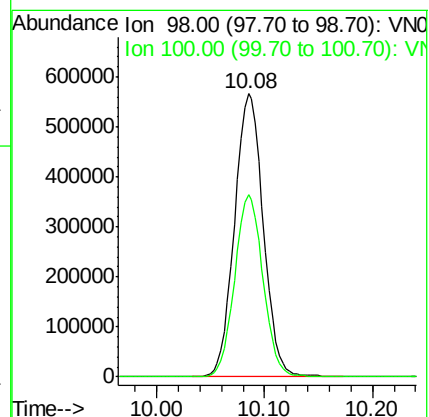
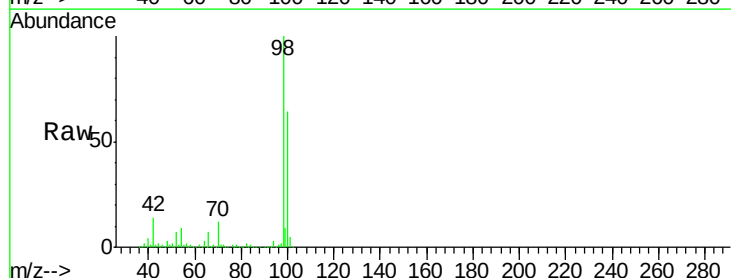
Acq: 26 Sep 2019 16:49

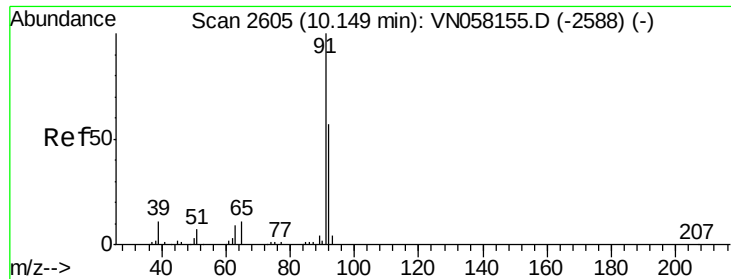
Tgt Ion: 98 Resp: 1048725

Ion Ratio Lower Upper

98 100

100 63.5 51.1 76.7





#52

Toluene

Concen: 8.602 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058390.D

Acq: 26 Sep 2019 16:49

Instrument :

MSVOA\_N

ClientSampled :

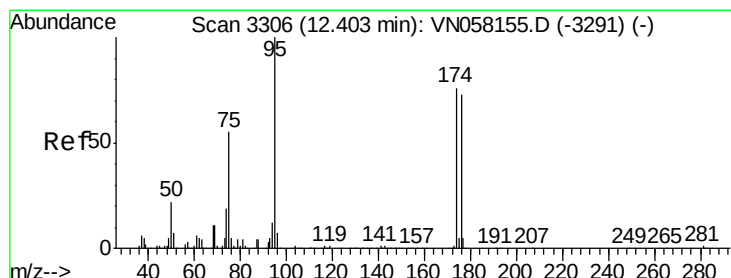
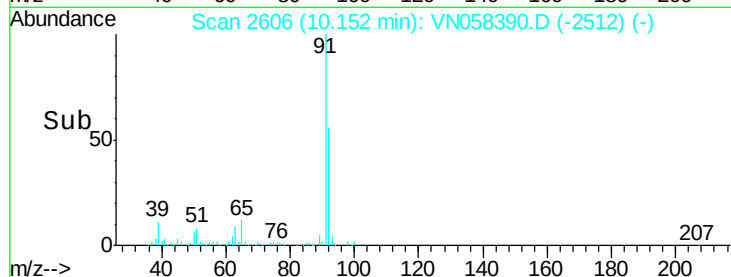
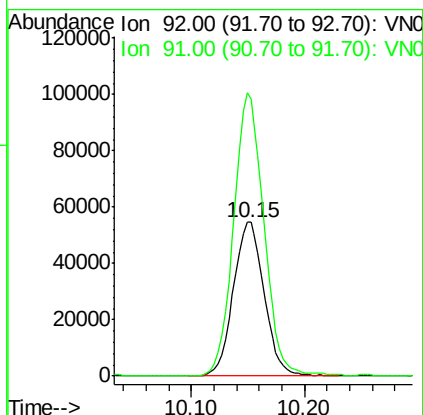
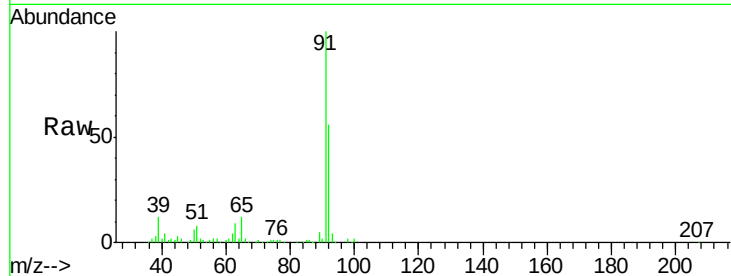
30315

Tot Ion: 92 Resp: 102639

Ion Ratio Lower Upper

92 100

91 182.7 140.2 210.2



#62

4-Bromofluorobenzene

Concen: 45.453 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058390.D

Acq: 26 Sep 2019 16:49

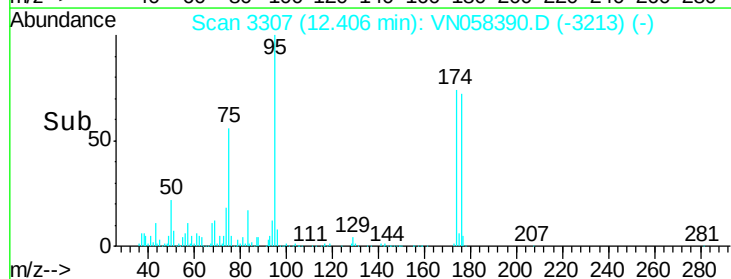
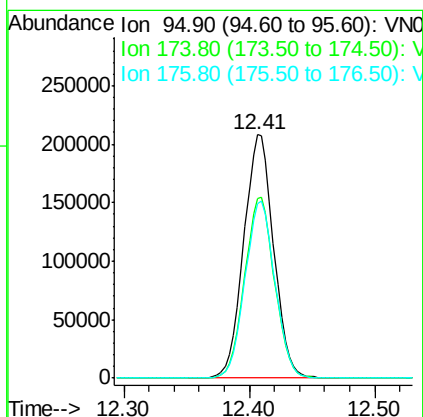
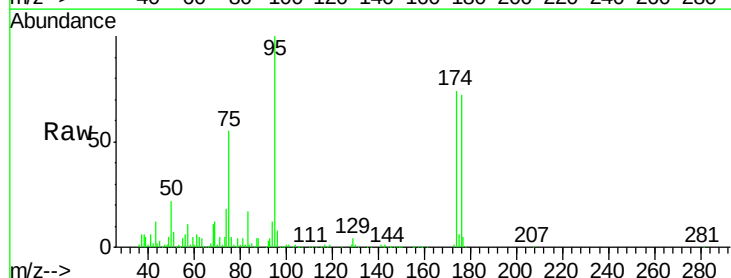
Tgt Ion: 95 Resp: 345661

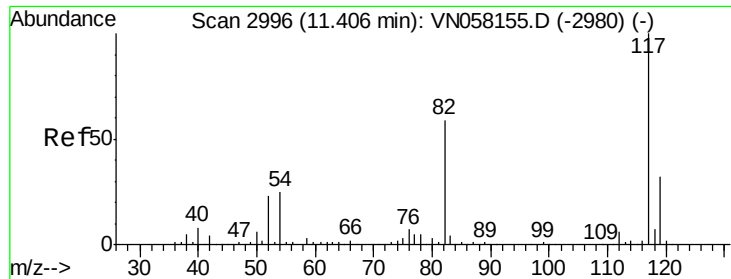
Ion Ratio Lower Upper

95 100

174 74.3 0.0 152.2

176 72.7 0.0 148.0

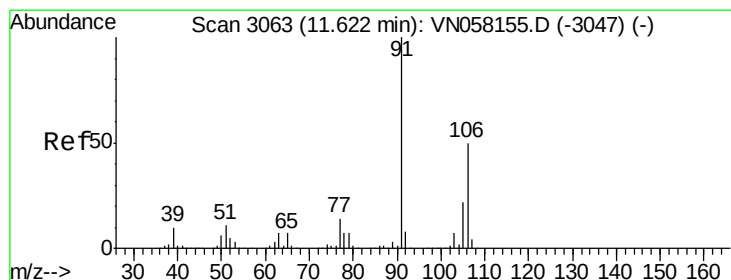
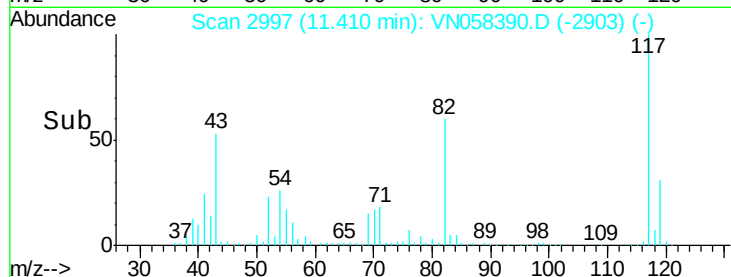
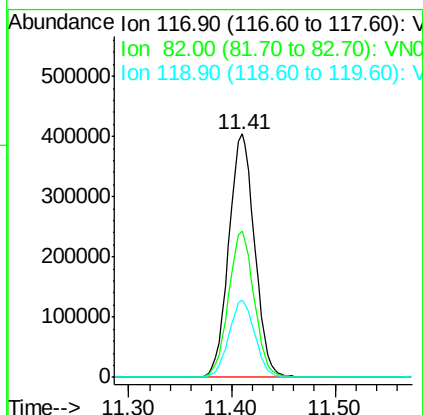
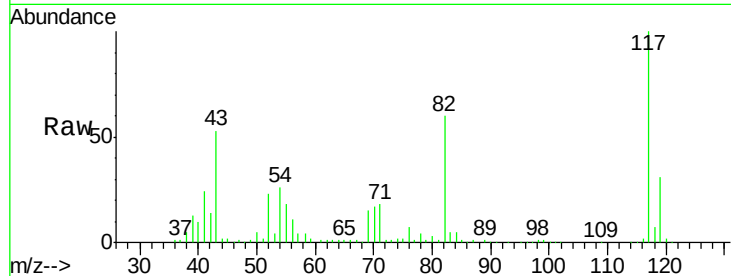




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN058390.D  
Acq: 26 Sep 2019 16:49

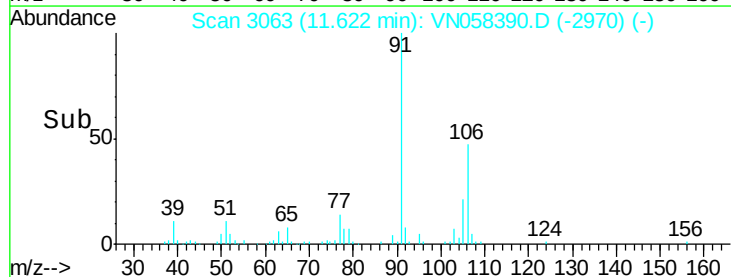
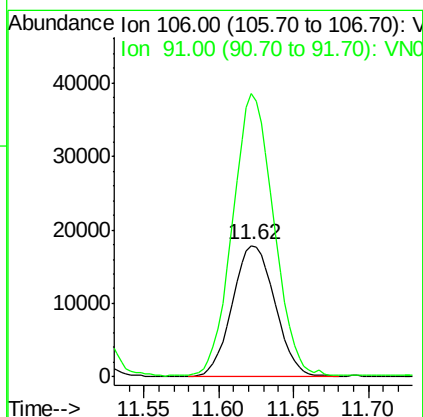
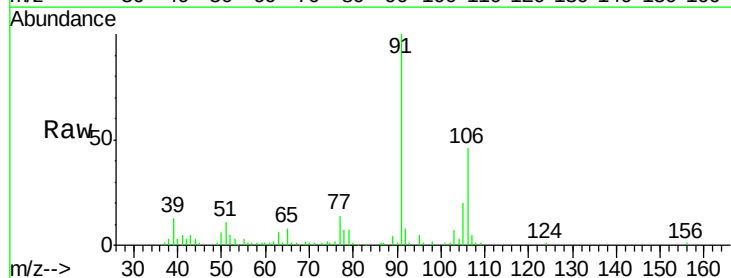
Instrument :  
MSVOA\_N  
ClientSampled :  
30315

Tot Ion:117 Resp: 706869  
Ion Ratio Lower Upper  
117 100  
82 59.9 46.9 70.3  
119 31.5 25.3 37.9

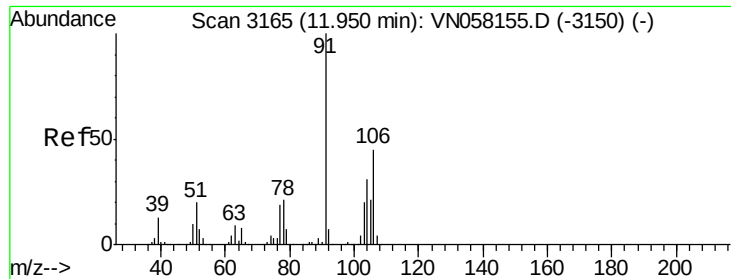


#68  
m/p-Xylenes  
Concen: 4.436 ug/l  
RT: 11.62 min Scan# 3063  
Delta R.T. -0.00 min  
Lab File: VN058390.D  
Acq: 26 Sep 2019 16:49

Tgt Ion:106 Resp: 35597  
Ion Ratio Lower Upper  
106 100  
91 209.6 163.6 245.4







#69

o-Xylene

Concen: 2.249 ug/l

RT: 11.95 min Scan# 3166

Delta R.T. 0.00 min

Lab File: VN058390.D

Acq: 26 Sep 2019 16:49

Instrument :

MSVOA\_N

ClientSampled :

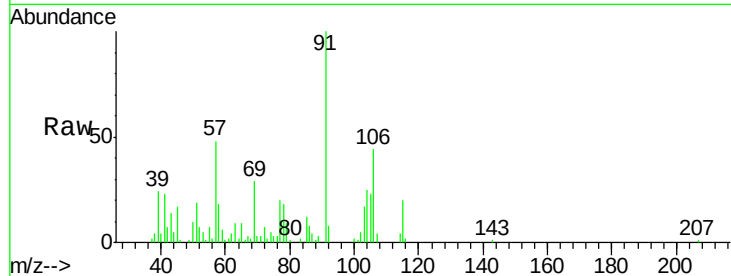
30315

Tot Ion:106 Resp: 17742

Ion Ratio Lower Upper

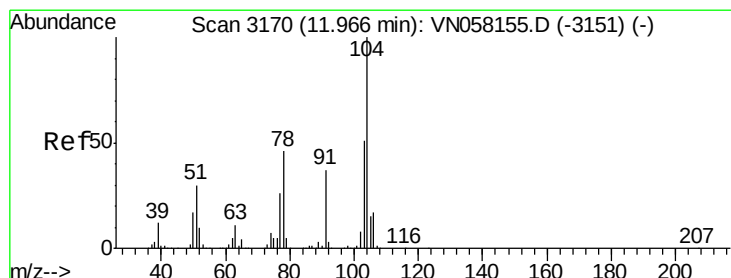
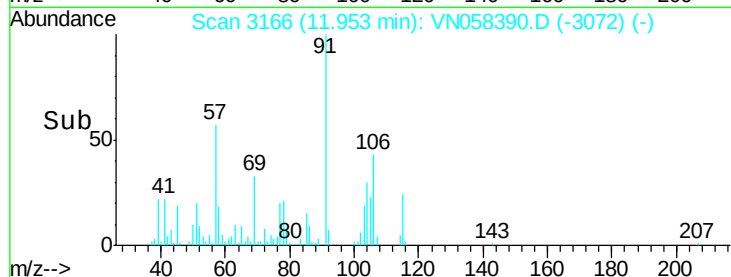
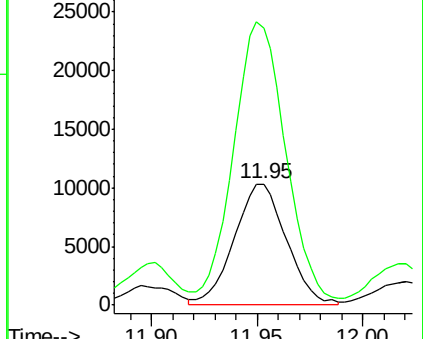
106 100

91 222.4 111.8 335.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#70

Styrene

Concen: 1.868 ug/l

RT: 11.97 min Scan# 3171

Delta R.T. 0.00 min

Lab File: VN058390.D

Acq: 26 Sep 2019 16:49

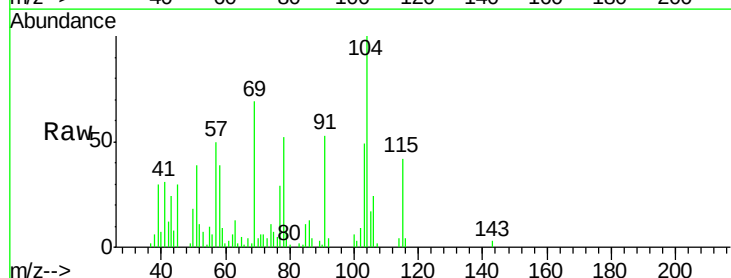
Tgt Ion:104 Resp: 25398

Ion Ratio Lower Upper

104 100

78 53.4 41.8 62.8

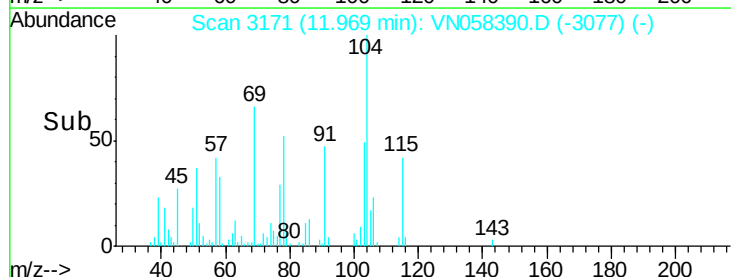
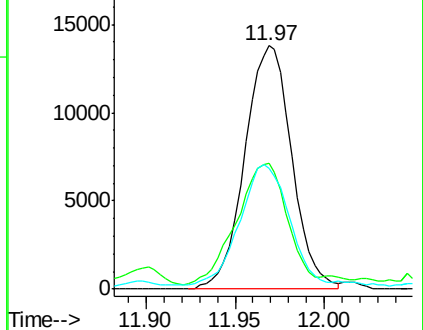
103 52.7 44.2 66.2

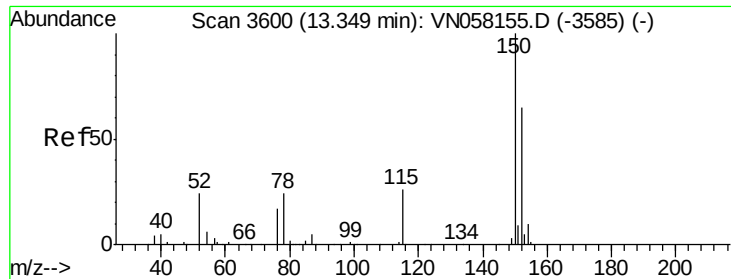


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058390.D

Acq: 26 Sep 2019 16:49

Instrument :

MSVOA\_N

ClientSampled :  
30315

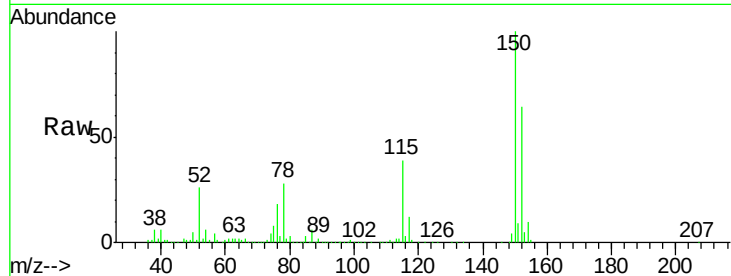
Tot Ion:152 Resp: 299539

Ion Ratio Lower Upper

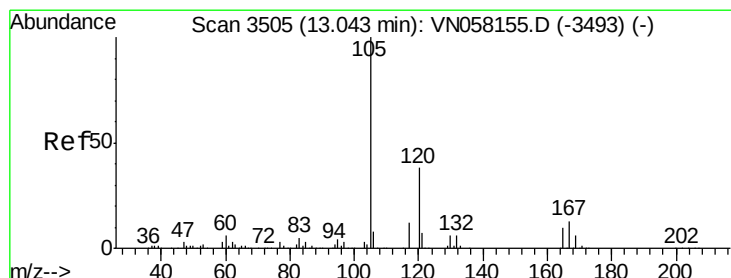
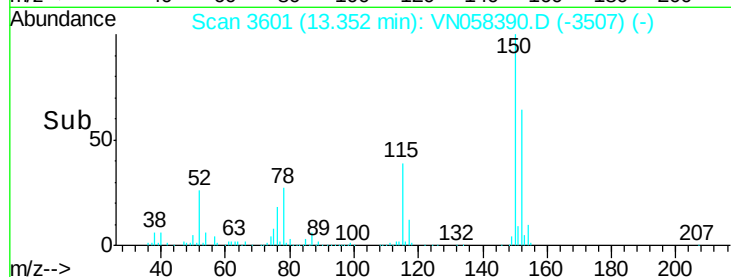
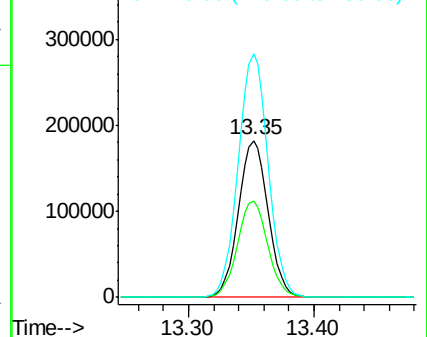
152 100

115 62.7 30.1 90.3

150 156.7 0.0 346.4



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



#84

1,2,4-Trimethylbenzene

Concen: 1.804 ug/l

RT: 13.05 min Scan# 3507

Delta R.T. 0.01 min

Lab File: VN058390.D

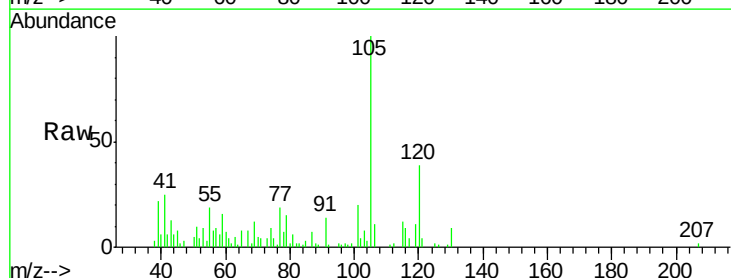
Acq: 26 Sep 2019 16:49

Tgt Ion:105 Resp: 28459

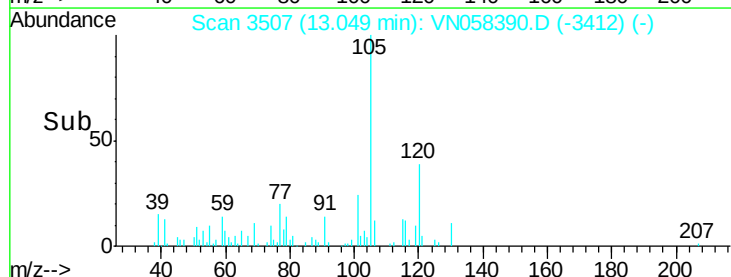
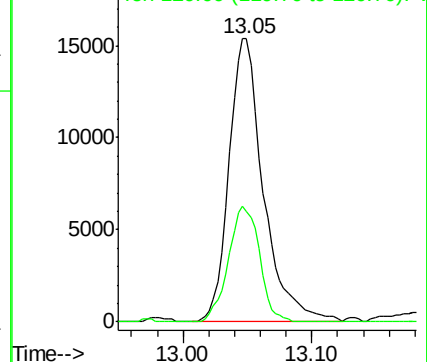
Ion Ratio Lower Upper

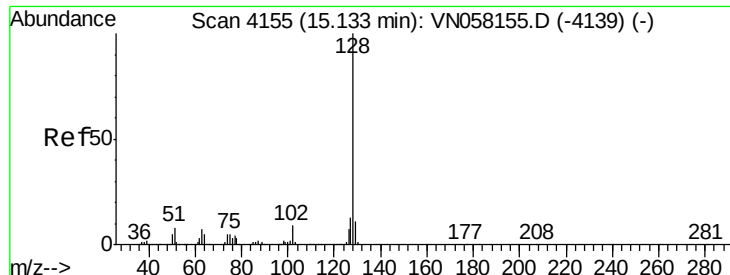
105 100

120 36.8 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V

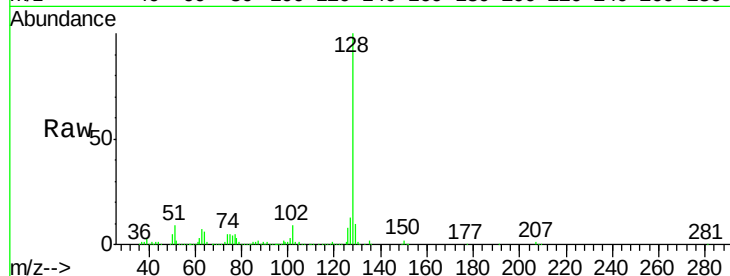




#95  
Naphthalene  
Concen: 23.604 ug/l  
RT: 15.14 min Scan# 4156  
Delta R.T. 0.00 min  
Lab File: VN058390.D  
Acq: 26 Sep 2019 16:49

Instrument :  
MSVOA\_N  
ClientSampleId :  
30315

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.3  | 10.2  | 15.2  |
| 129     | 10.5  | 8.6   | 12.8  |



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

