

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060519\  
 Data File : VN056009.D  
 Acq On : 5 Jun 2019 14:56  
 Operator : JC/SP  
 Sample : K3150-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IRONBOUND-TP

Quant Time: Jun 06 02:02:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 04 11:02:09 2019  
 Response via : Initial Calibration

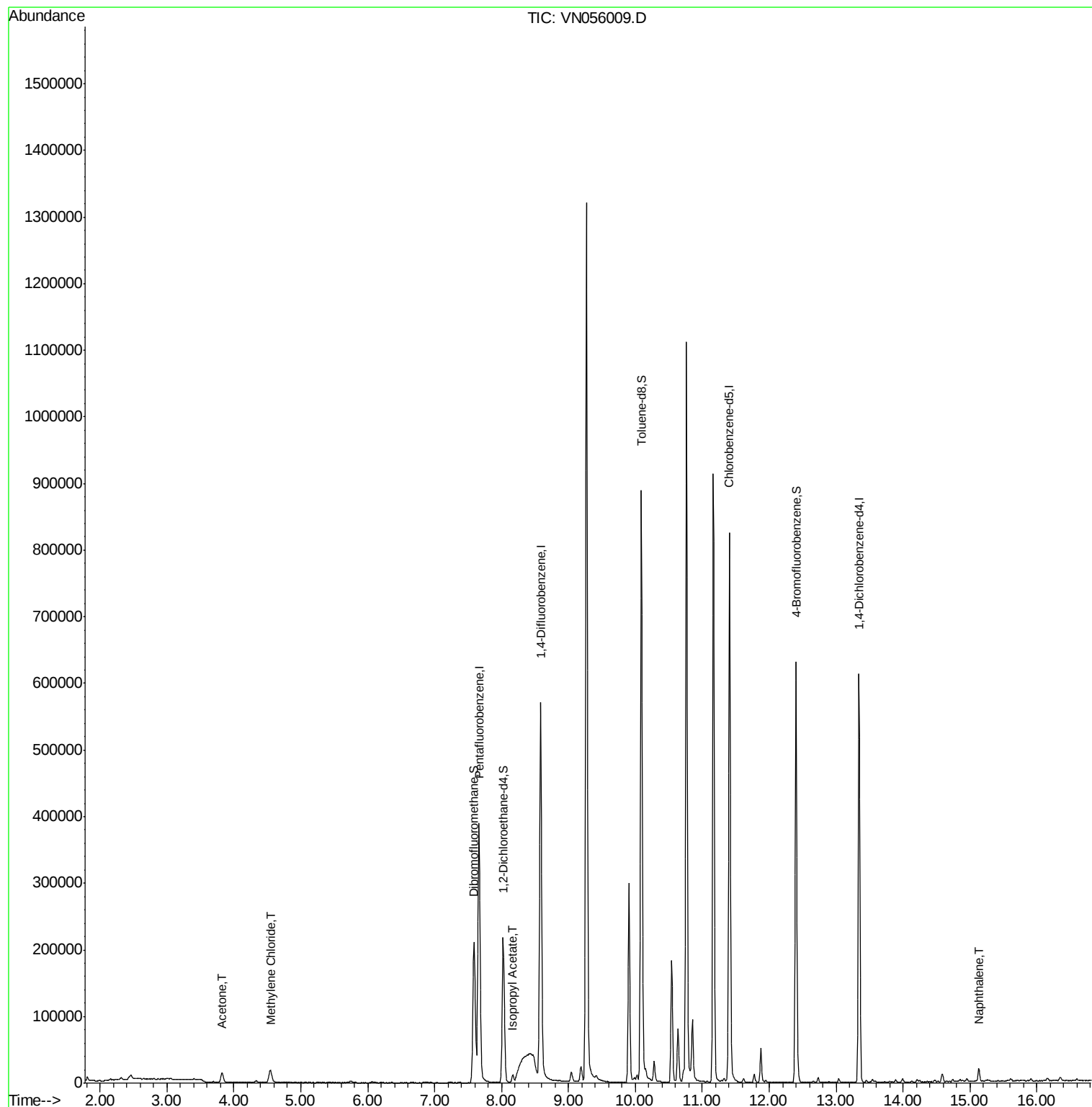
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.66  | 168  | 379682   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.58  | 114  | 569629   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 539328   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.34 | 152  | 189582   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.02  | 65   | 183083   | 48.56  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 97.12%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 163616   | 46.82  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 93.64%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 675028   | 50.19  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 100.38% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 224685   | 49.13  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 98.26%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 3.82  | 43   | 25460    | 14.121 | ug/l    | 97       |
| 20) Methylene Chloride      | 4.55  | 84   | 16405    | 4.416  | ug/l    | 88       |
| 43) Isopropyl Acetate       | 8.17  | 43   | 14106    | 1.997  | ug/l #  | 90       |
| 95) Naphthalene             | 15.13 | 128  | 20007    | 5.888  | ug/l    | 97       |

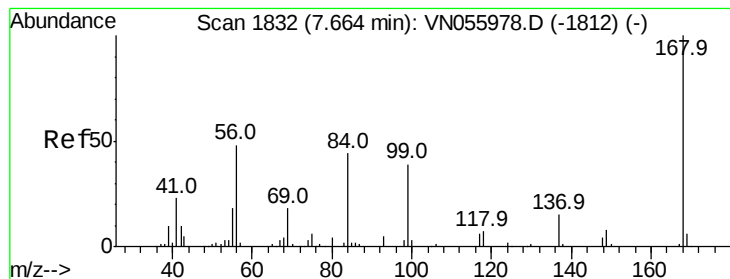
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 04 11:02:09 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056009.D

Acq: 5 Jun 2019 14:56

Instrument :

MSVOA\_N

ClientSampleId :

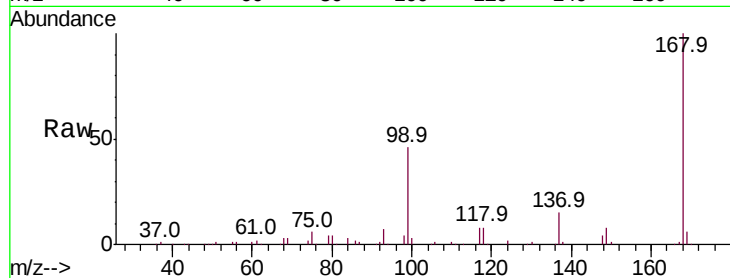
IRONBOUND-TP

Tot Ion:168 Resp: 379682

Ion Ratio Lower Upper

168 100

99 45.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

150000

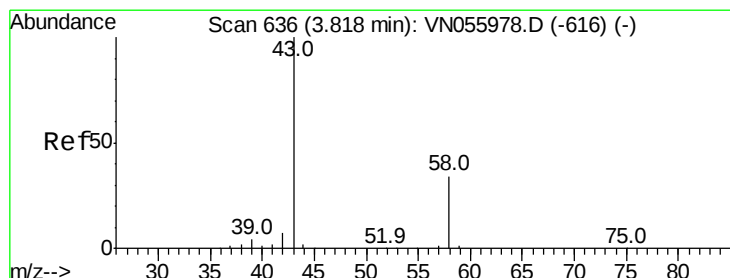
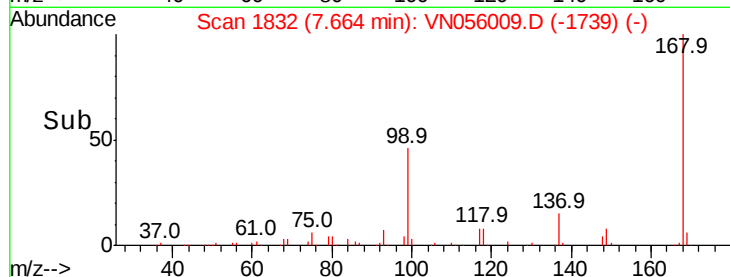
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 14.121 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056009.D

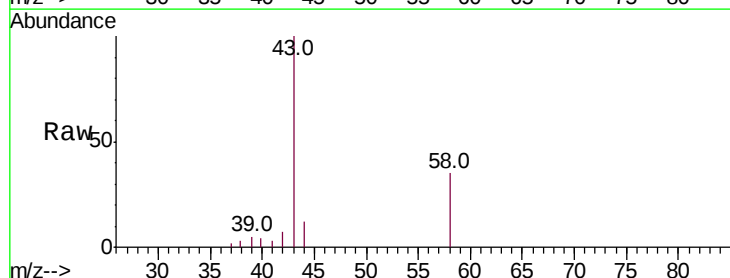
Acq: 5 Jun 2019 14:56

Tgt Ion: 43 Resp: 25460

Ion Ratio Lower Upper

43 100

58 34.9 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-616) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-616) (-)

3.82

10000

8000

6000

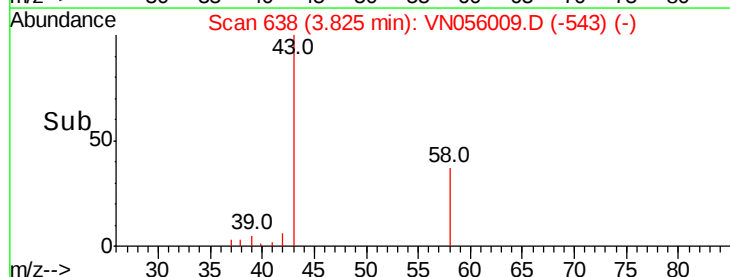
4000

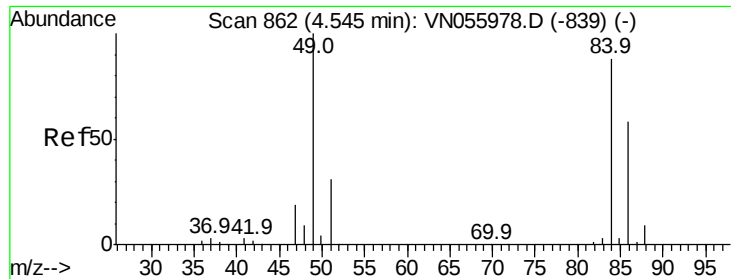
2000

0

3.70 3.80 3.90

Time-->

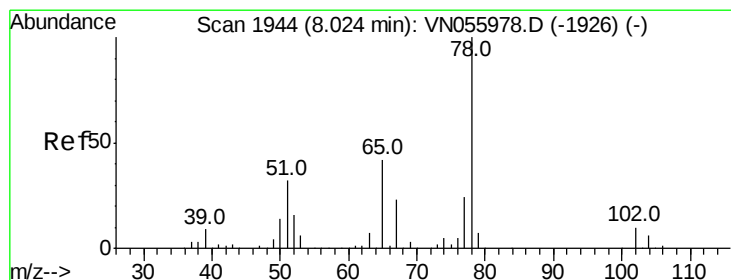
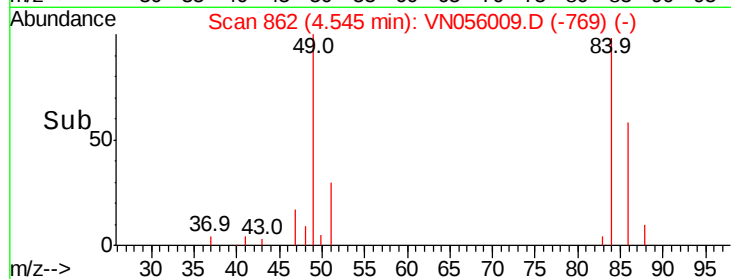
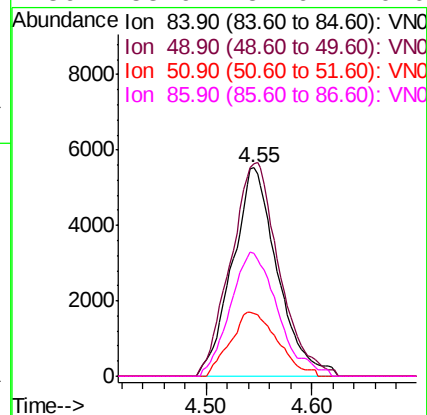
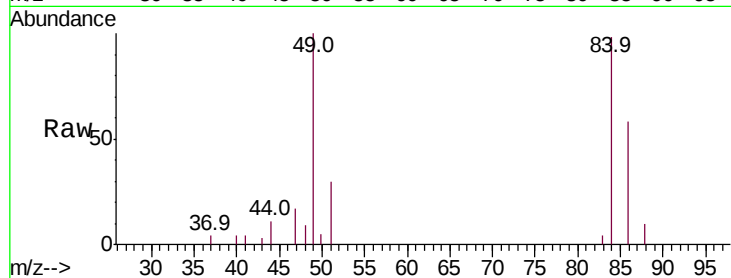




#20  
Methvlene Chloride  
Concen: 4.416 ug/l  
RT: 4.55 min Scan# 862  
Delta R.T. 0.00 min  
Lab File: VN056009.D  
Acq: 5 Jun 2019 14:56

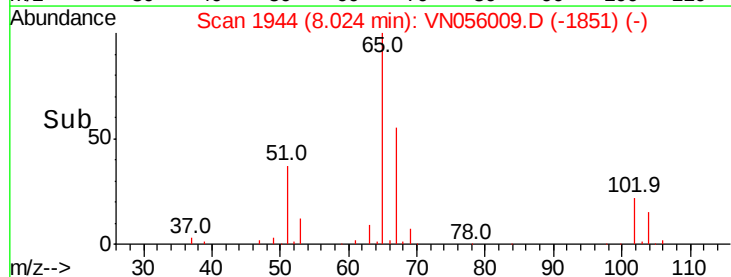
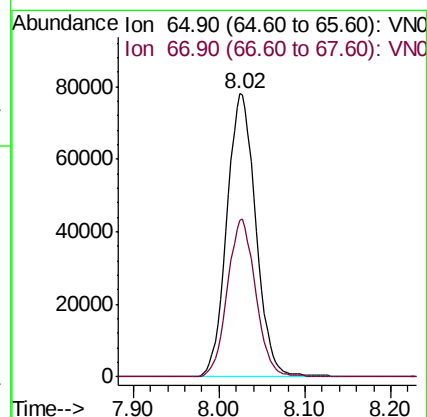
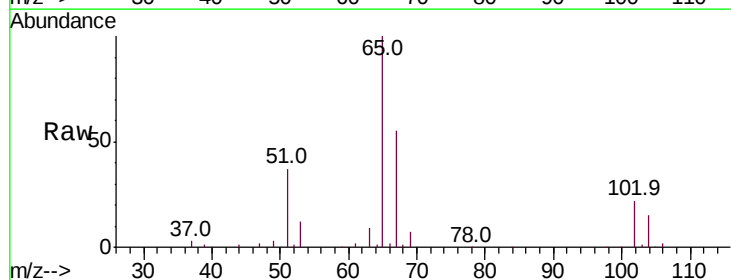
Instrument :  
MSVOA\_N  
ClientSampleId :  
IRONBOUND-TP

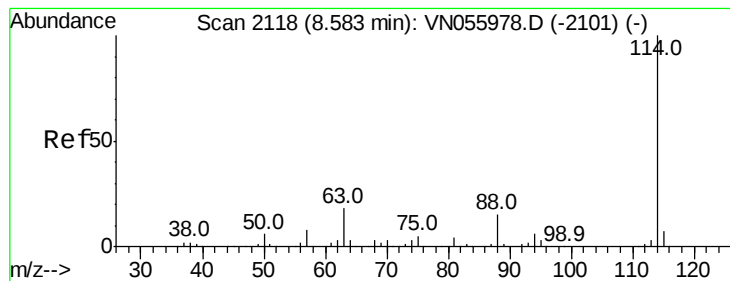
Tot Ion: 84 Resp: 16405  
Ion Ratio Lower Upper  
84 100  
49 101.8 93.5 140.3  
51 30.1 28.6 43.0  
86 58.9 52.6 79.0



#33  
1,2-Dichloroethane-d4  
Concen: 48.564 ug/l  
RT: 8.02 min Scan# 1944  
Delta R.T. 0.00 min  
Lab File: VN056009.D  
Acq: 5 Jun 2019 14:56

Tgt Ion: 65 Resp: 183083  
Ion Ratio Lower Upper  
65 100  
67 54.5 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN056009.D

Acq: 5 Jun 2019 14:56

Instrument :

MSVOA\_N

ClientSampleId :

IRONBOUND-TP

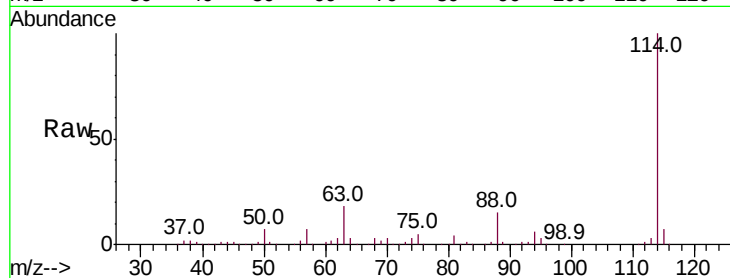
Tot Ion:114 Resp: 569629

Ion Ratio Lower Upper

114 100

63 18.4 0.0 39.2

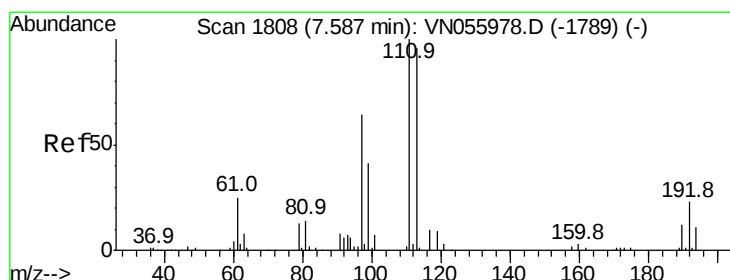
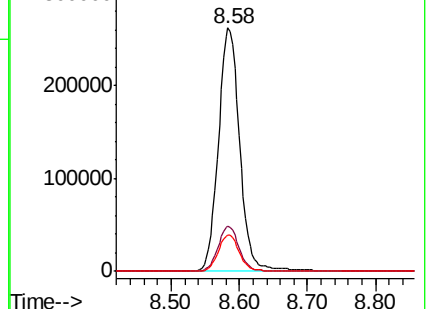
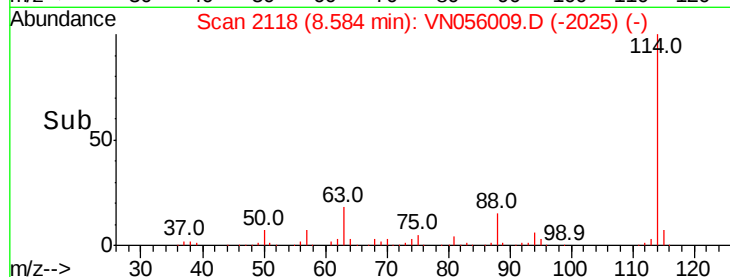
88 14.9 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 46.816 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056009.D

Acq: 5 Jun 2019 14:56

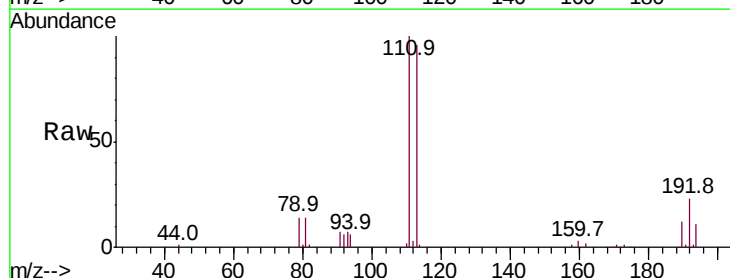
Tgt Ion:113 Resp: 163616

Ion Ratio Lower Upper

113 100

111 100.9 81.9 122.9

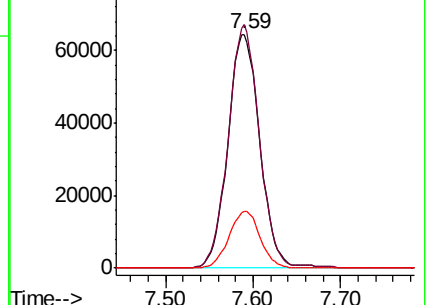
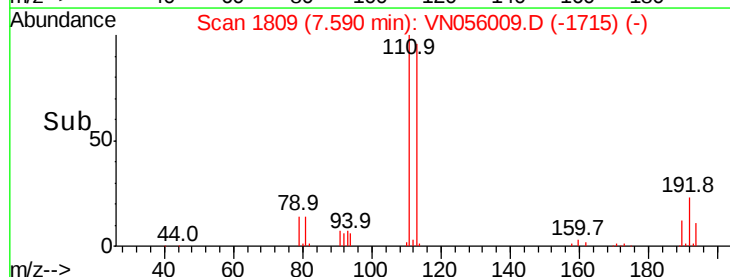
192 23.8 19.5 29.3

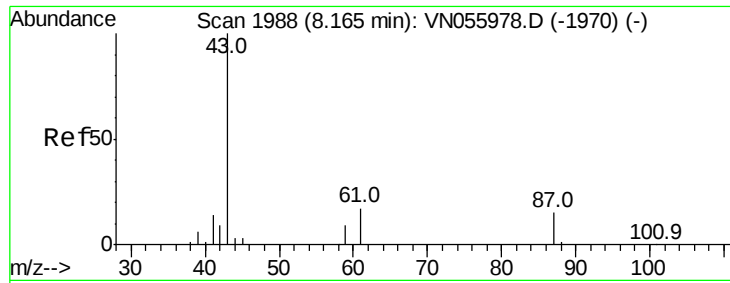


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#43

Isopropyl Acetate

Concen: 1.997 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN056009.D

Acq: 5 Jun 2019 14:56

Instrument :

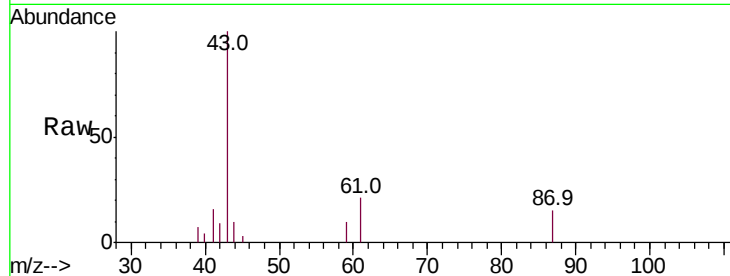
MSVOA\_N

ClientSampleId :

IRONBOUND-TP

Tot Ion: 43 Resp: 14106

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 61  | 20.2  | 22.2  | 33.4# |
| 87  | 13.3  | 11.4  | 17.2  |

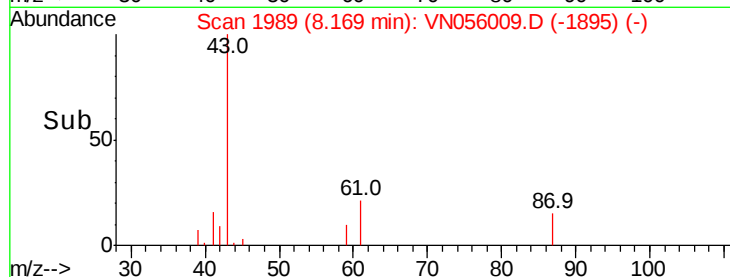


Abundance Ion 43.00 (42.70 to 43.70): VN056009.D (-1989) (-)

Ion 61.00 (60.70 to 61.70): VN056009.D (-1989) (-)

Ion 87.00 (86.70 to 87.70): VN056009.D (-1989) (-)

Time-->



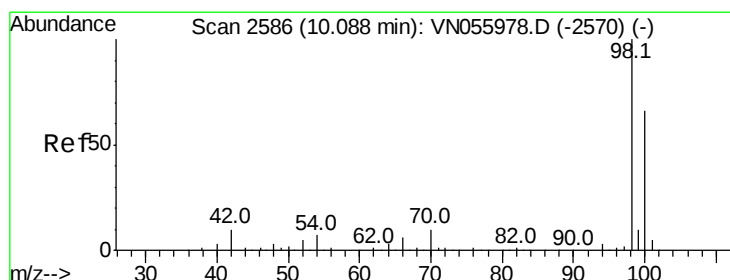
Abundance

Ion 43.00 (42.70 to 43.70): VN056009.D (-1989) (-)

Ion 61.00 (60.70 to 61.70): VN056009.D (-1989) (-)

Ion 87.00 (86.70 to 87.70): VN056009.D (-1989) (-)

Time-->



#50

Toluene-d8

Concen: 50.195 ug/l

RT: 10.09 min Scan# 2586

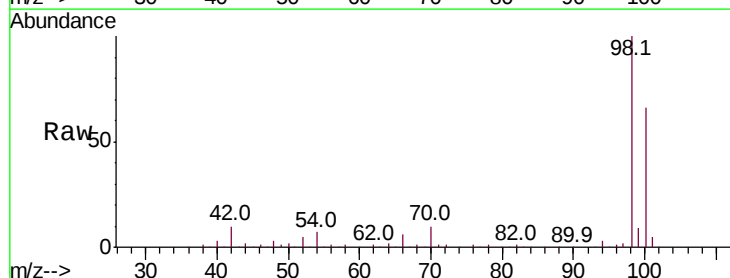
Delta R.T. 0.00 min

Lab File: VN056009.D

Acq: 5 Jun 2019 14:56

Tgt Ion: 98 Resp: 675028

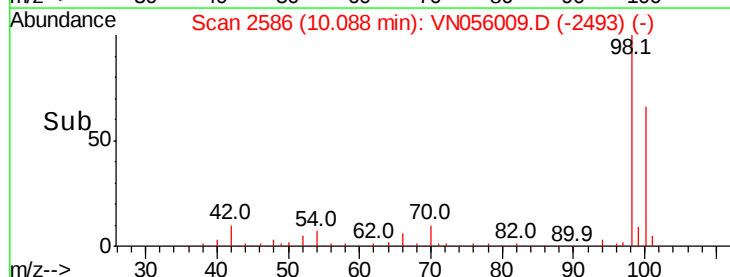
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 65.6  | 51.9  | 77.9  |



Abundance Ion 98.00 (97.70 to 98.70): VN056009.D (-2493) (-)

Ion 100.00 (99.70 to 100.70): VN056009.D (-2493) (-)

Time-->

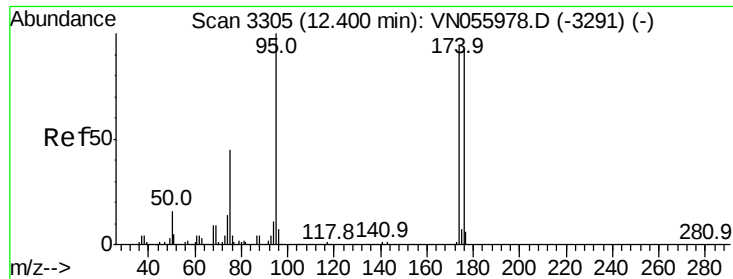


Abundance

Ion 98.00 (97.70 to 98.70): VN056009.D (-2493) (-)

Ion 100.00 (99.70 to 100.70): VN056009.D (-2493) (-)

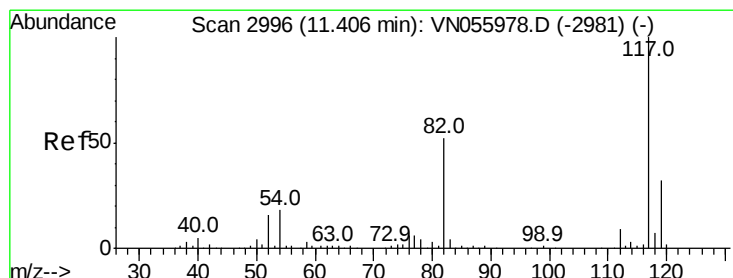
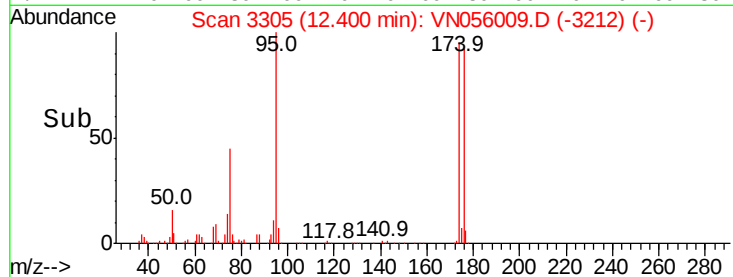
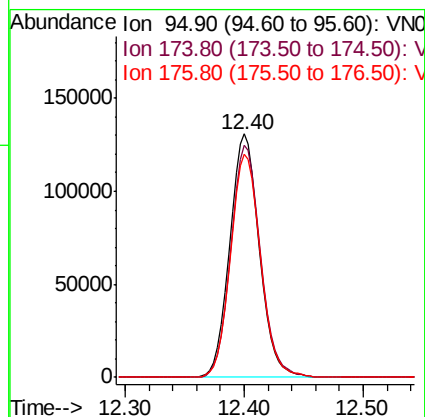
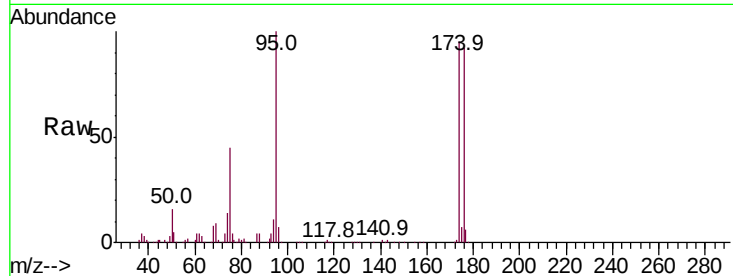
Time-->



#62  
4-Bromofluorobenzene  
Concen: 49.128 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.00 min  
Lab File: VN056009.D  
Acq: 5 Jun 2019 14:56

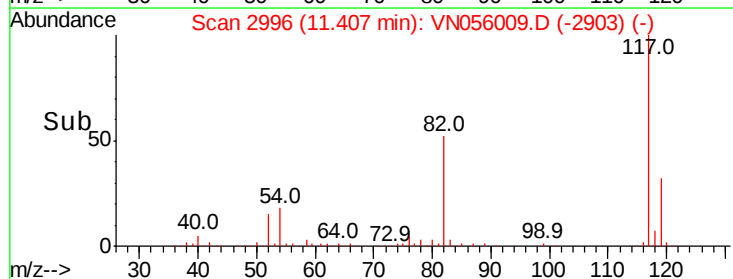
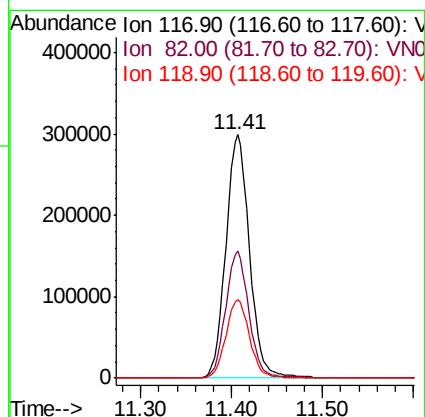
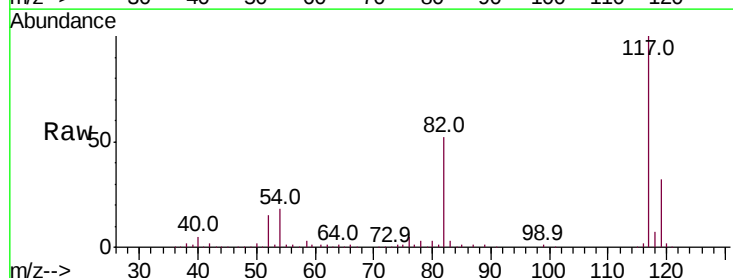
Instrument :  
MSVOA\_N  
ClientSampleId :  
IRONBOUND-TP

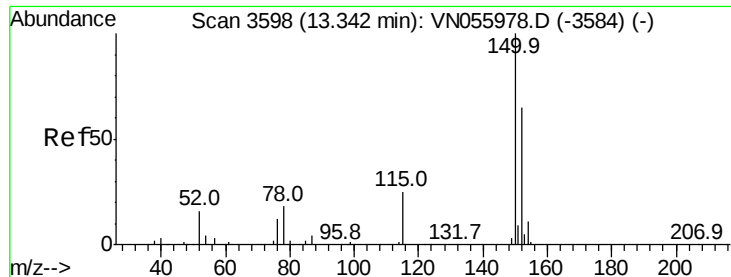
Tot Ion: 95 Resp: 224685  
Ion Ratio Lower Upper  
95 100  
174 95.8 0.0 191.0  
176 93.0 0.0 185.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN056009.D  
Acq: 5 Jun 2019 14:56

Tgt Ion: 117 Resp: 539328  
Ion Ratio Lower Upper  
117 100  
82 52.0 41.8 62.8  
119 32.2 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056009.D

Acq: 5 Jun 2019 14:56

Instrument :

MSVOA\_N

ClientSampleId :

IRONBOUND-TP

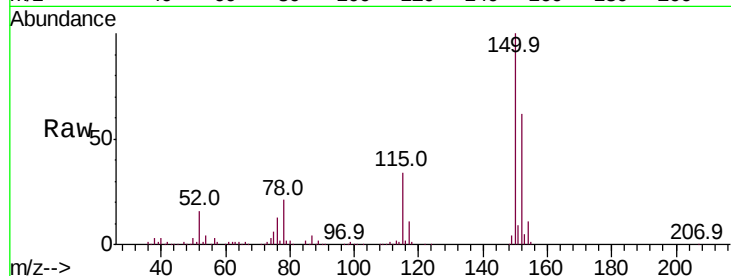
Tot Ion:152 Resp: 189582

Ion Ratio Lower Upper

152 100

115 53.4 27.0 81.0

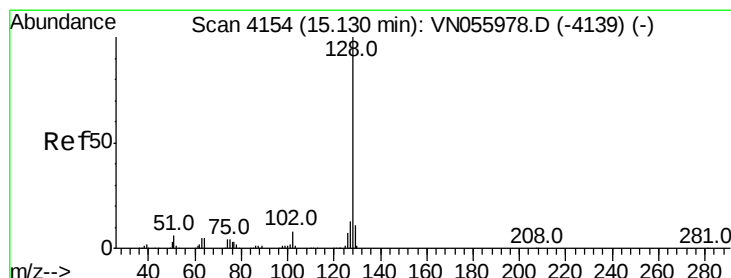
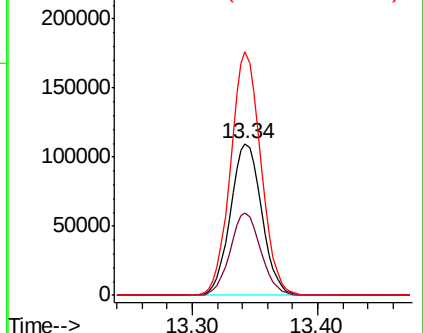
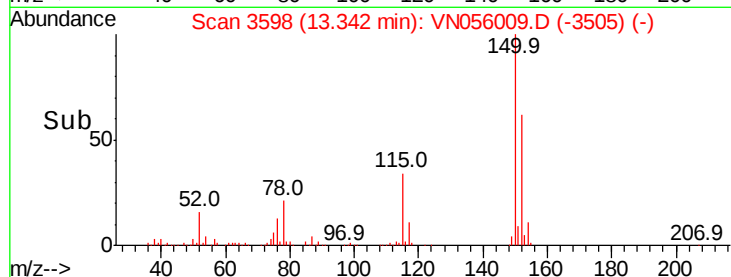
150 155.7 0.0 343.2



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



#95

Naphthalene

Concen: 5.888 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056009.D

Acq: 5 Jun 2019 14:56

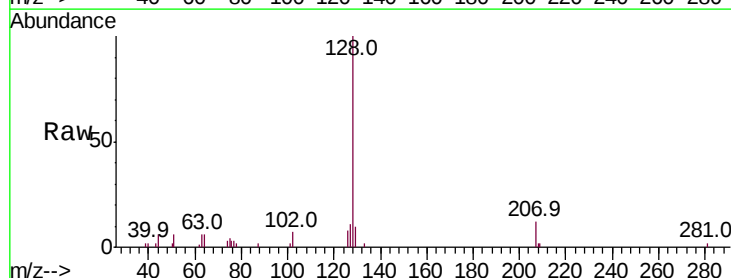
Tgt Ion:128 Resp: 20007

Ion Ratio Lower Upper

128 100

127 11.7 10.3 15.5

129 10.1 8.7 13.1



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

