

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080618\  
 Data File : VN050417.D  
 Acq On : 7 Aug 2018 5:56  
 Operator : MD\SY  
 Sample : J4283-02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TR-04-080318

Quant Time: Aug 07 08:20:24 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 05:22:15 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 629350   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1034531  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 902368   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 396960   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 440355   | 52.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.74% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 399403   | 48.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.24%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1424006  | 45.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.26%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 423866   | 39.85 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.70%  |          |

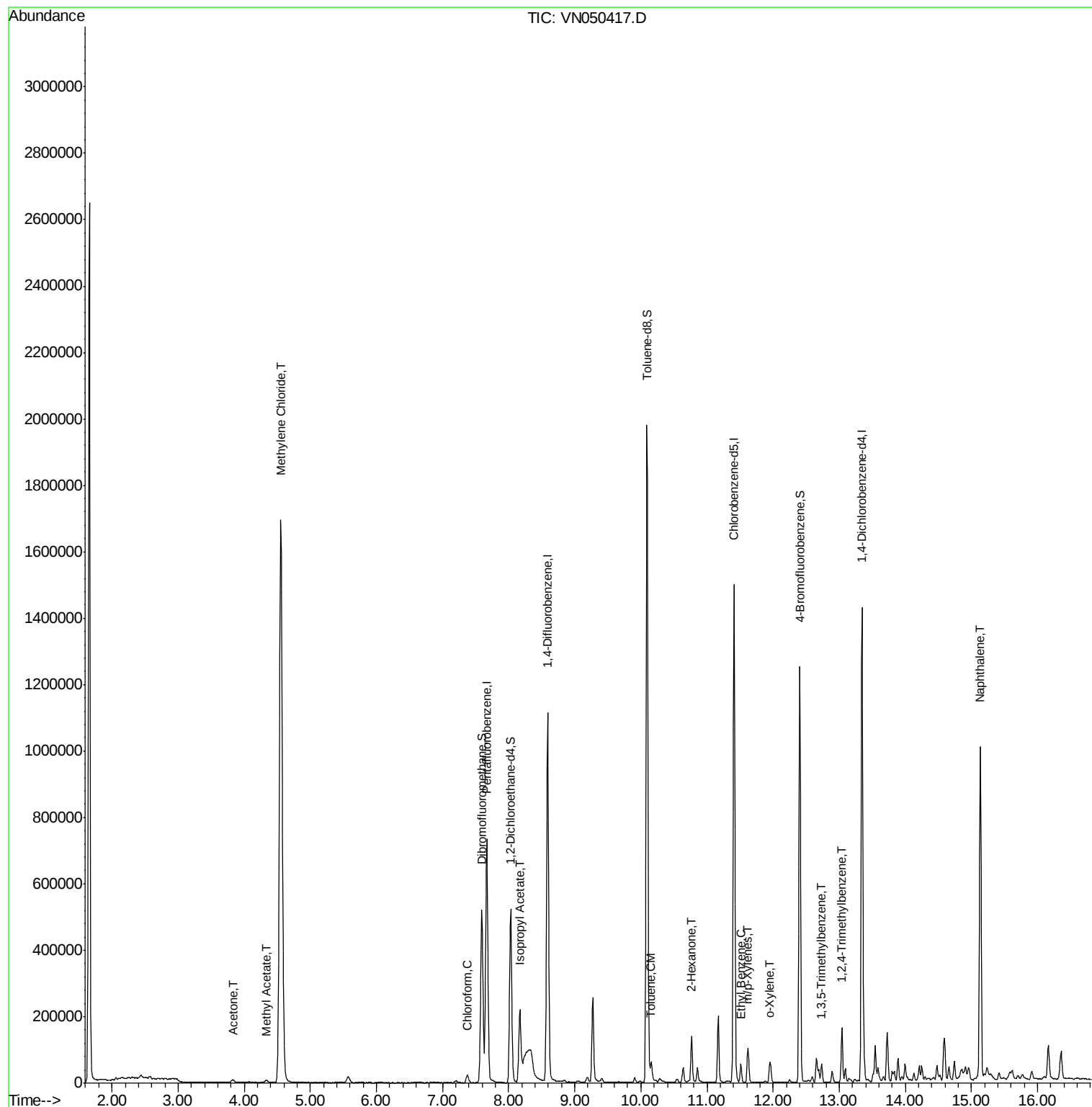
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 16) Acetone                | 3.83  | 43   | 16410    | 6.19   | ug/l  | 97     |
| 18) Methyl Acetate         | 4.33  | 43   | 13550    | 1.89   | ug/l  | # 67   |
| 20) Methylene Chloride     | 4.55  | 84   | 1344910  | 179.38 | ug/l  | 99     |
| 30) Chloroform             | 7.37  | 83   | 25525    | 1.86   | ug/l  | 99     |
| 43) Isopropyl Acetate      | 8.17  | 43   | 267810   | 18.95  | ug/l  | 99     |
| 52) Toluene                | 10.16 | 92   | 21404    | 1.02   | ug/l  | 96     |
| 59) 2-Hexanone             | 10.77 | 43   | 19799    | 2.79   | ug/l  | # 58   |
| 67) Ethyl Benzene          | 11.51 | 91   | 38631    | 1.06   | ug/l  | 97     |
| 68) m/p-Xylenes            | 11.62 | 106  | 32954    | 2.37   | ug/l  | 99     |
| 69) o-Xylene               | 11.95 | 106  | 13642    | 1.02   | ug/l  | 95     |
| 80) 1,3,5-Trimethylbenzene | 12.73 | 105  | 26294    | 1.09   | ug/l  | 95     |
| 84) 1,2,4-Trimethylbenzene | 13.04 | 105  | 91495    | 3.73   | ug/l  | 100    |
| 95) Naphthalene            | 15.14 | 128  | 891801   | 46.66  | ug/l  | 100    |

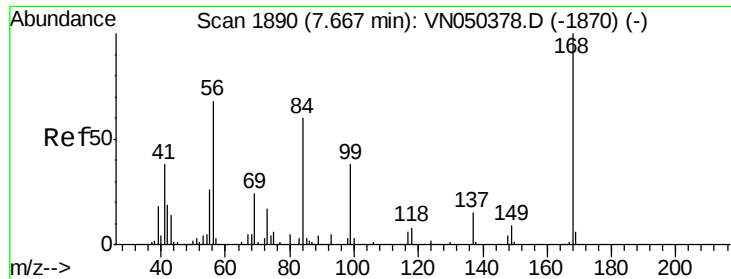
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TR-04-080318

Quant Time: Aug 07 08:20:24 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080618W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 05:22:15 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050417.D

Acq: 7 Aug 2018 5:56

Instrument :

MSVOA\_N

ClientSampleId :

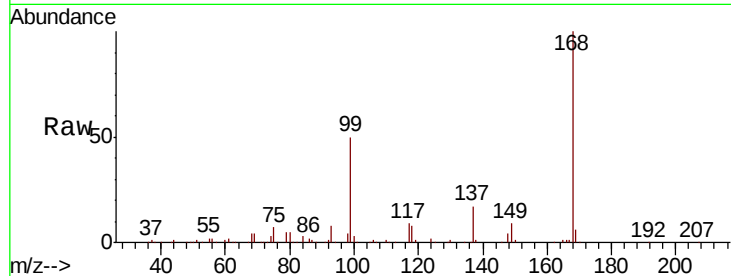
TR-04-080318

Tot Ion:168 Resp: 629350

Ion Ratio Lower Upper

168 100

99 50.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

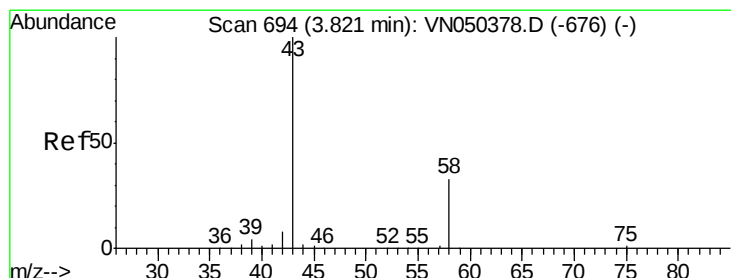
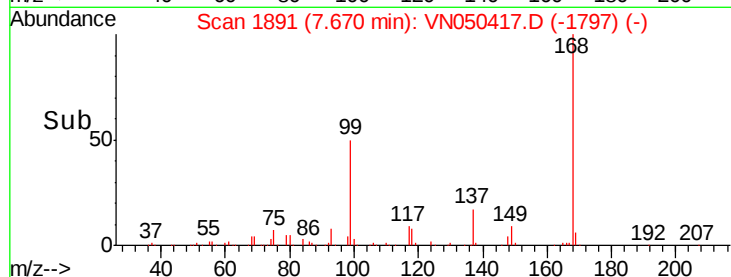
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 6.19 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050417.D

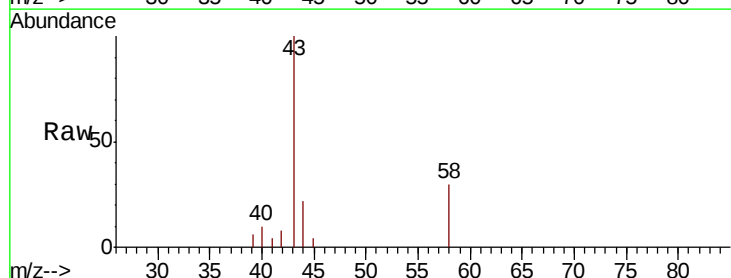
Acq: 7 Aug 2018 5:56

Tgt Ion: 43 Resp: 16410

Ion Ratio Lower Upper

43 100

58 30.4 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.83

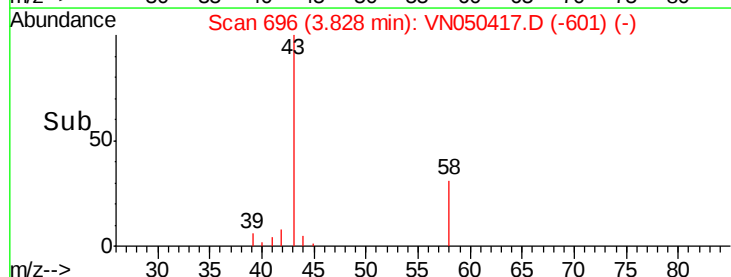
6000

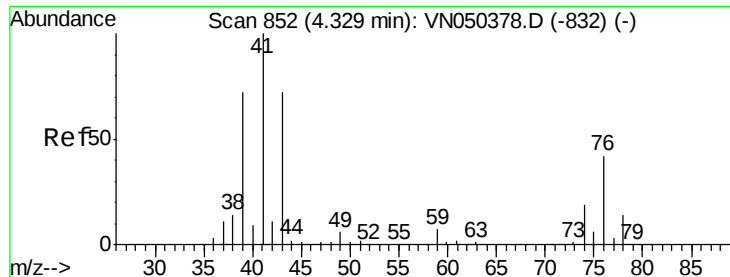
4000

2000

0

Time-->

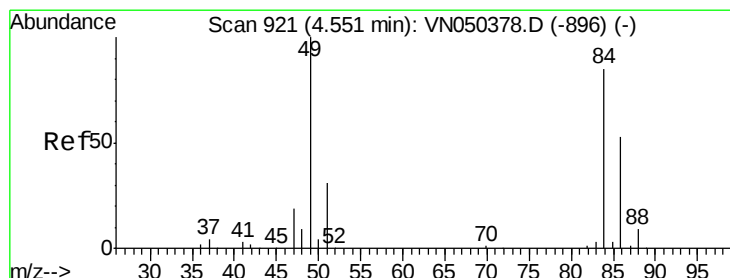
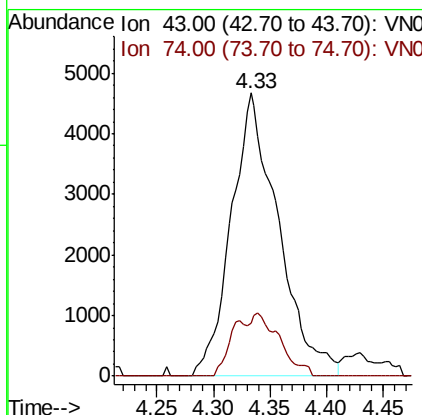
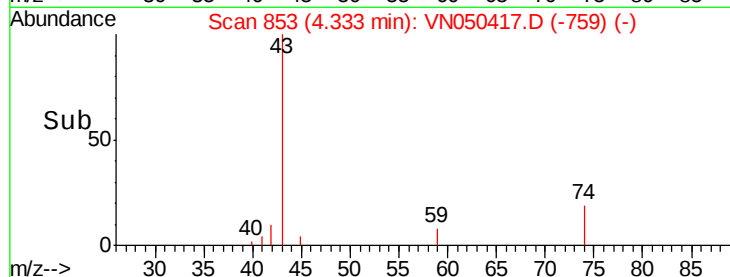
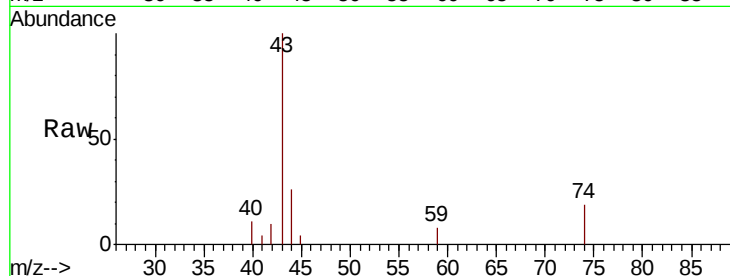




#18  
Methyl Acetate  
Concen: 1.89 ug/l  
RT: 4.33 min Scan# 853  
Delta R.T. 0.00 min  
Lab File: VN050417.D  
Acq: 7 Aug 2018 5:56

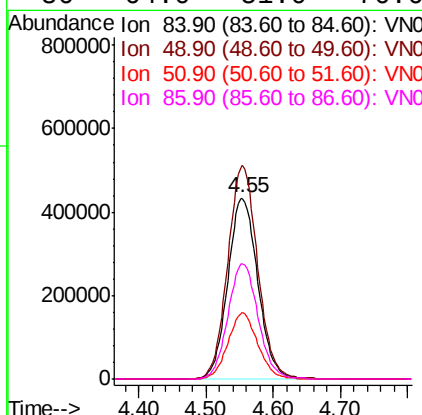
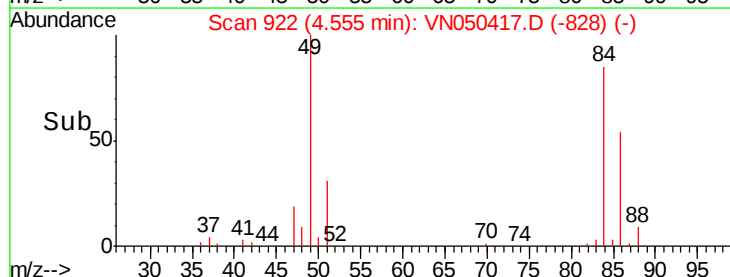
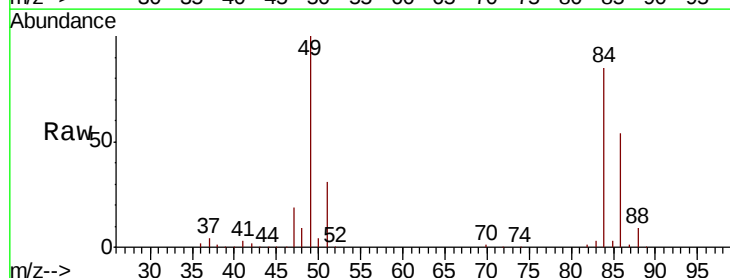
Instrument :  
MSVOA\_N  
ClientSampled :  
TR-04-080318

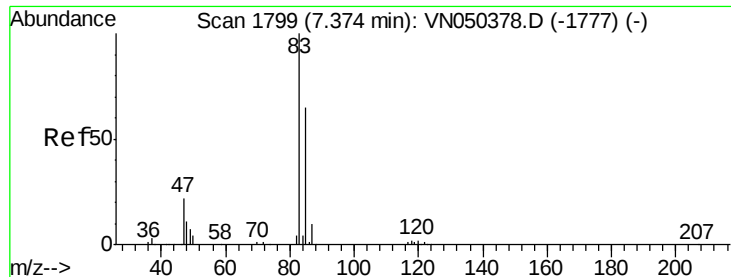
Tot Ion: 43 Resp: 13550  
Ion Ratio Lower Upper  
43 100  
74 7.9 19.2 28.8#



#20  
Methylene Chloride  
Concen: 179.38 ug/l  
RT: 4.55 min Scan# 922  
Delta R.T. 0.00 min  
Lab File: VN050417.D  
Acq: 7 Aug 2018 5:56

Tgt Ion: 84 Resp: 1344910  
Ion Ratio Lower Upper  
84 100  
49 118.1 94.8 142.2  
51 36.7 28.3 42.5  
86 64.0 51.0 76.6

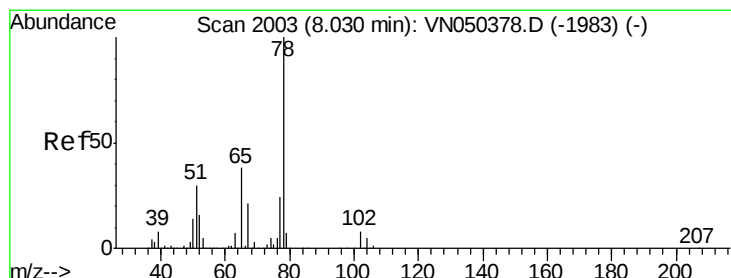
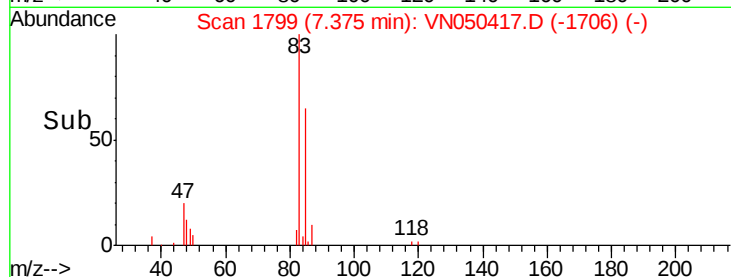
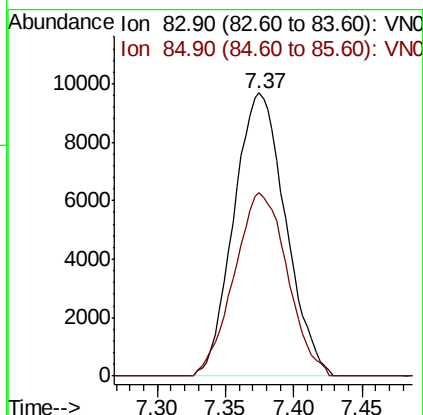
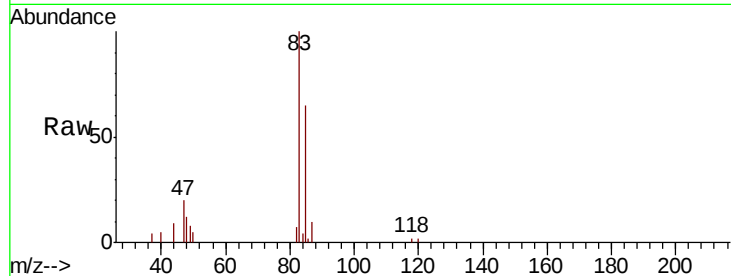




#30  
Chloroform  
Concen: 1.86 ug/l  
RT: 7.37 min Scan# 1799  
Delta R.T. 0.00 min  
Lab File: VN050417.D  
Acq: 7 Aug 2018 5:56

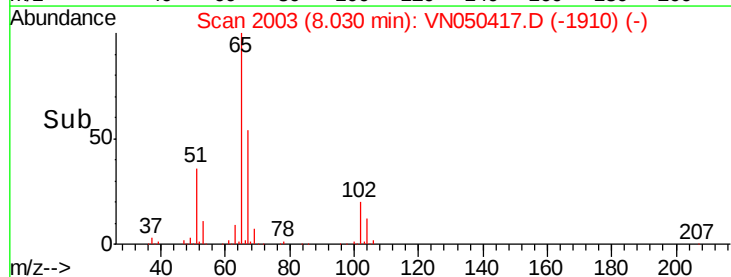
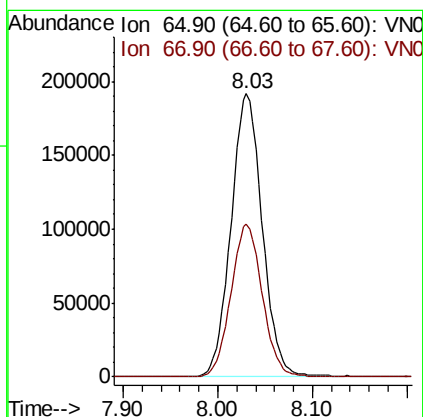
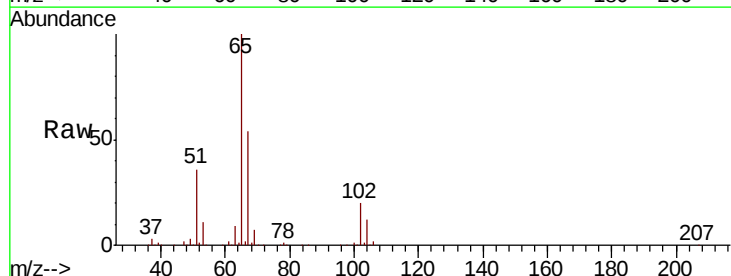
Instrument :  
MSVOA\_N  
ClientSampled :  
TR-04-080318

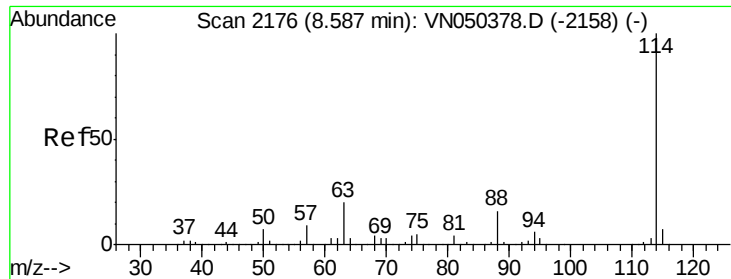
Tot Ion: 83 Resp: 25525  
Ion Ratio Lower Upper  
83 100  
85 65.0 52.5 78.7



#33  
1,2-Dichloroethane-d4  
Concen: 52.37 ug/l  
RT: 8.03 min Scan# 2003  
Delta R.T. 0.00 min  
Lab File: VN050417.D  
Acq: 7 Aug 2018 5:56

Tgt Ion: 65 Resp: 440355  
Ion Ratio Lower Upper  
65 100  
67 54.3 0.0 108.4

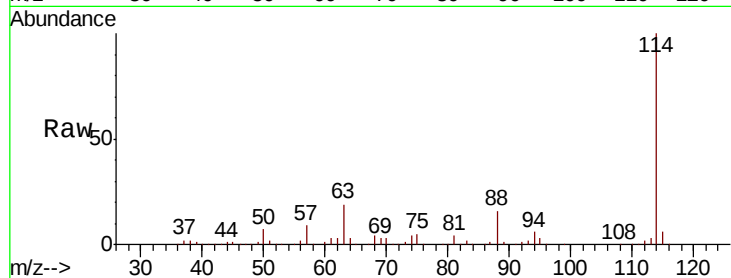




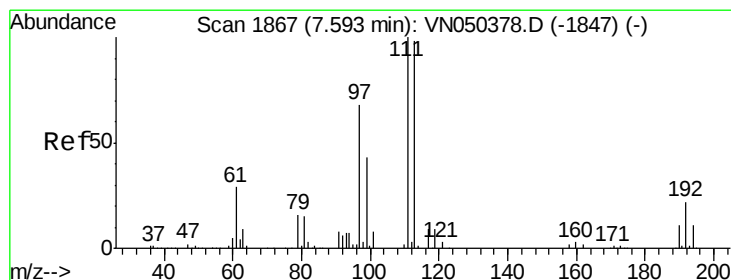
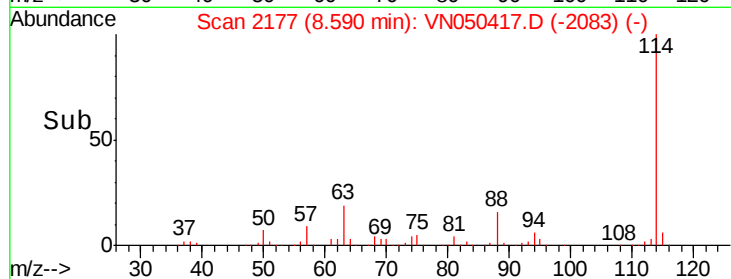
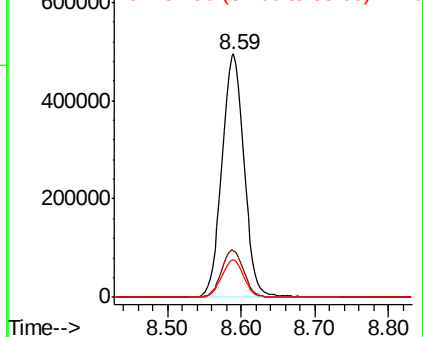
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2177  
 Delta R.T. 0.00 min  
 Lab File: VN050417.D  
 Acq: 7 Aug 2018 5:56

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TR-04-080318

Tot Ion:114 Resp: 1034531  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 0.0 40.0  
 88 15.5 0.0 31.2

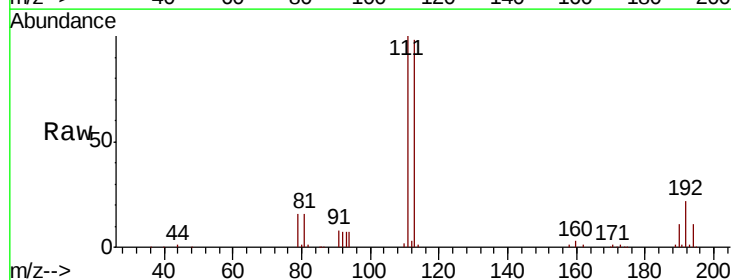


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

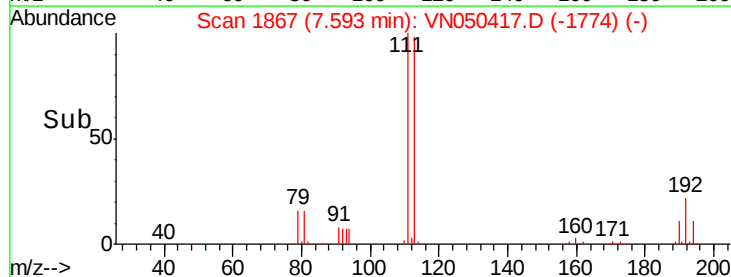
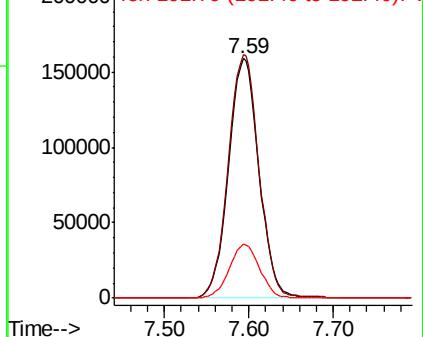


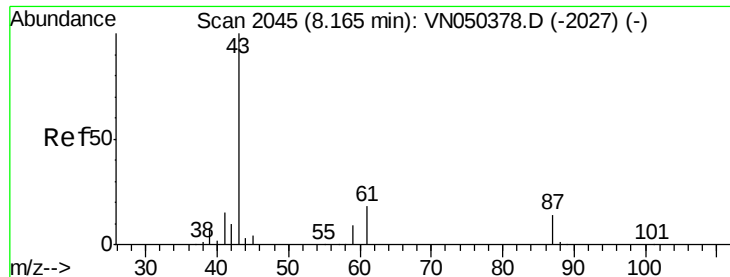
#35  
 Dibromofluoromethane  
 Concen: 48.12 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VN050417.D  
 Acq: 7 Aug 2018 5:56

Tgt Ion:113 Resp: 399403  
 Ion Ratio Lower Upper  
 113 100  
 111 102.8 80.7 121.1  
 192 22.3 17.8 26.6



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: 18.95 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050417.D

Acq: 7 Aug 2018 5:56

Instrument :

MSVOA\_N

ClientSampled :

TR-04-080318

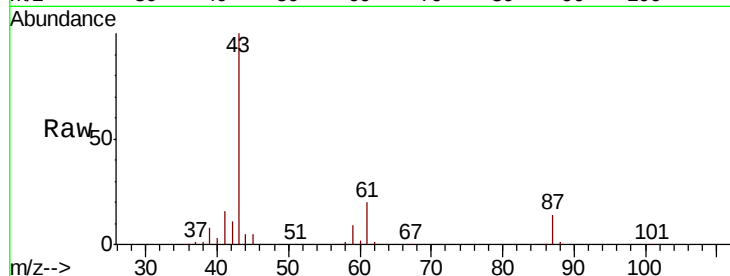
Tot Ion: 43 Resp: 267810

Ion Ratio Lower Upper

43 100

61 19.1 15.8 23.6

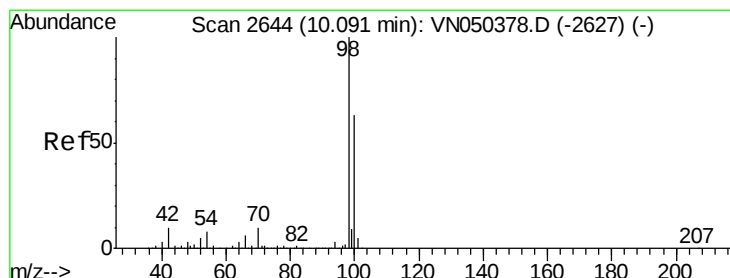
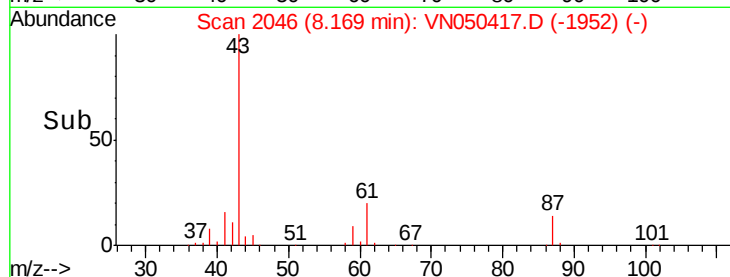
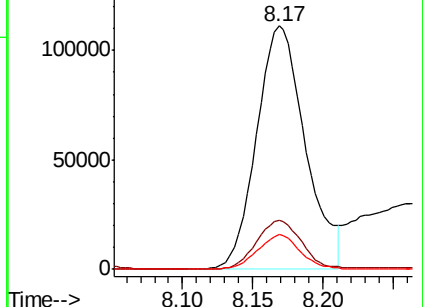
87 12.6 10.3 15.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 45.63 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050417.D

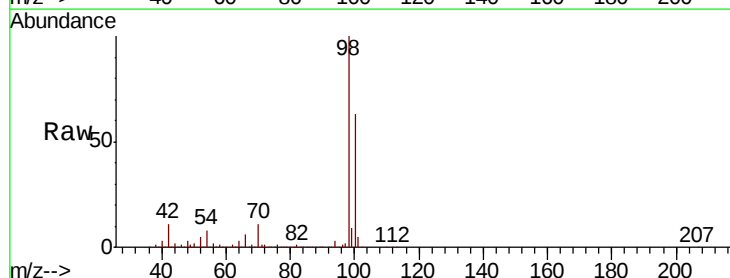
Acq: 7 Aug 2018 5:56

Tgt Ion: 98 Resp: 1424006

Ion Ratio Lower Upper

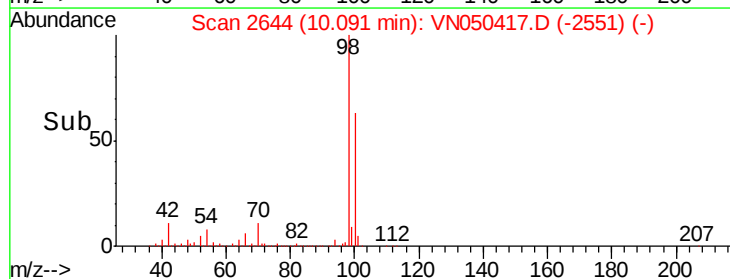
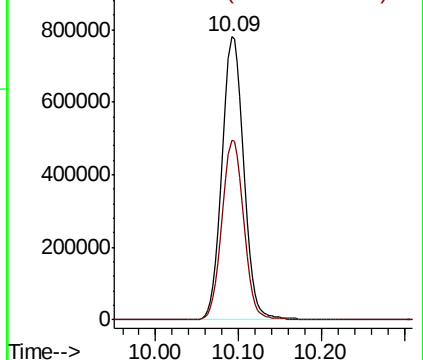
98 100

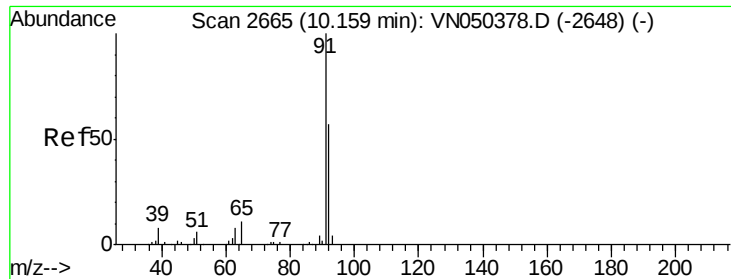
100 63.8 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#52

Toluene

Concen: 1.02 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. 0.00 min

Lab File: VN050417.D

Acq: 7 Aug 2018 5:56

Instrument :

MSVOA\_N

ClientSampleId :

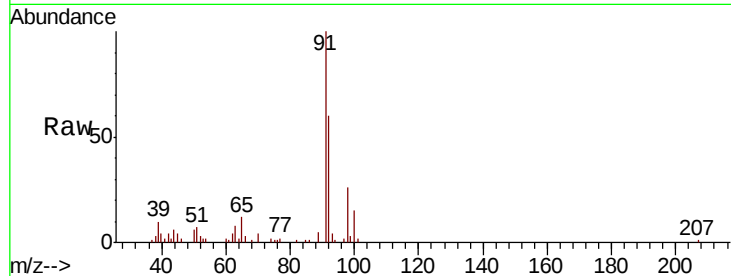
TR-04-080318

Tot Ion: 92 Resp: 21404

Ion Ratio Lower Upper

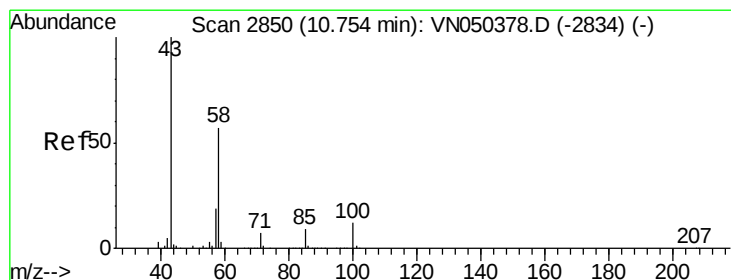
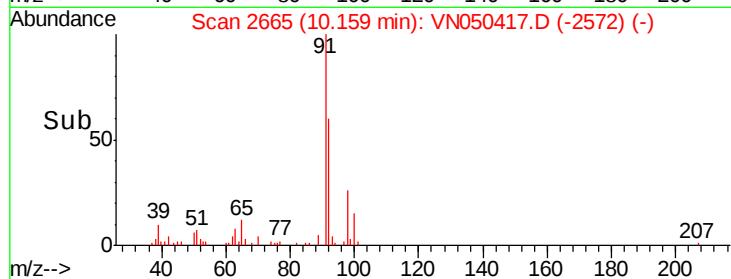
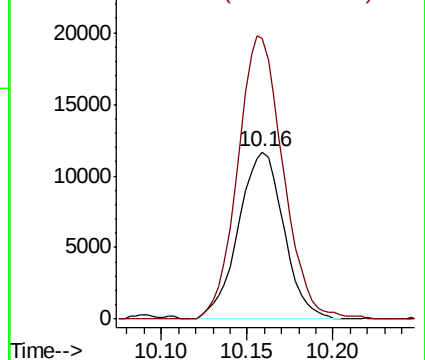
92 100

91 169.9 140.3 210.5



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#59

2-Hexanone

Concen: 2.79 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050417.D

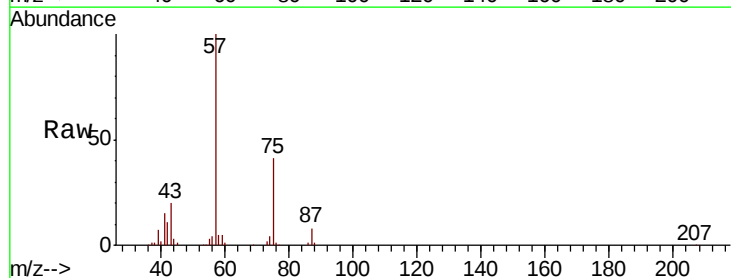
Acq: 7 Aug 2018 5:56

Tgt Ion: 43 Resp: 19799

Ion Ratio Lower Upper

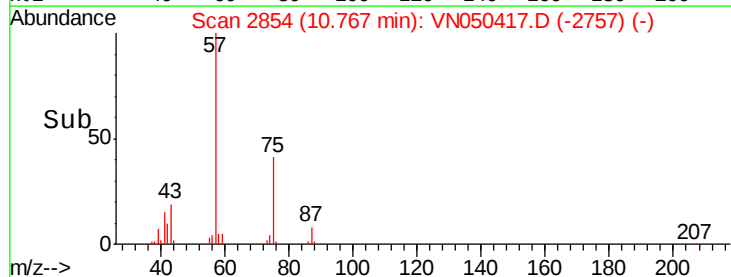
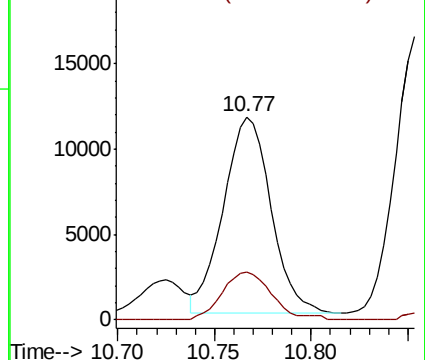
43 100

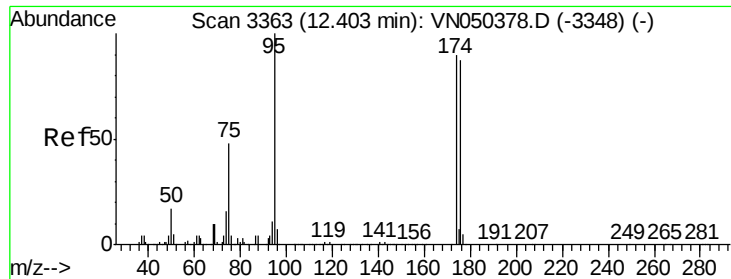
58 24.6 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 39.85 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050417.D

Acq: 7 Aug 2018 5:56

Instrument :

MSVOA\_N

ClientSampleId :

TR-04-080318

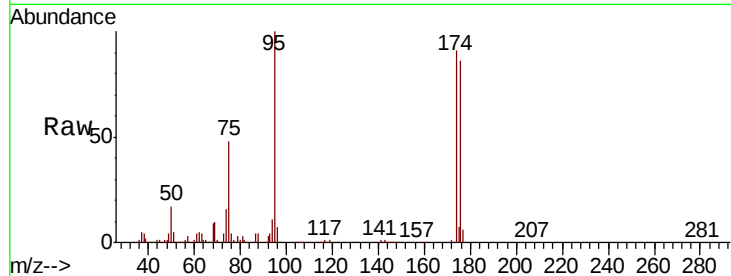
Tot Ion: 95 Resp: 423866

Ion Ratio Lower Upper

95 100

174 91.6 0.0 178.2

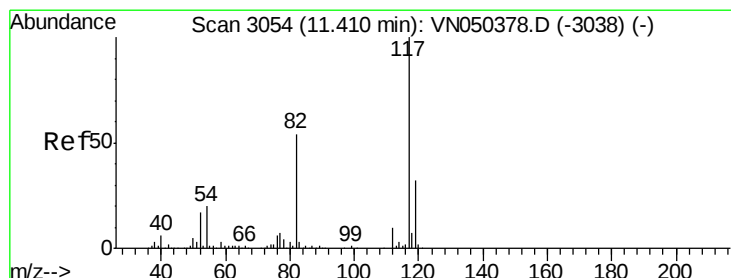
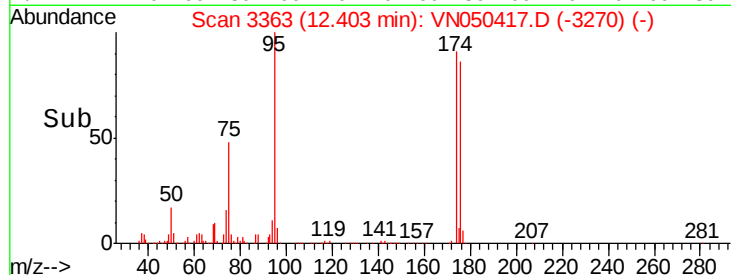
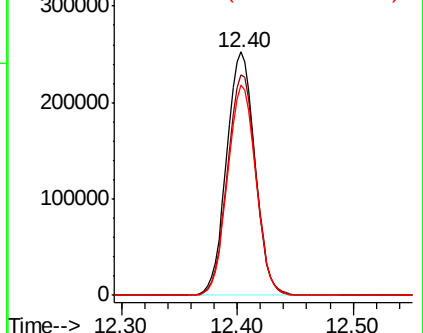
176 86.5 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050417.D

Acq: 7 Aug 2018 5:56

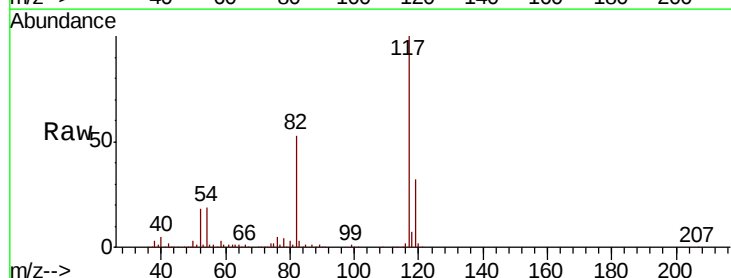
Tgt Ion: 117 Resp: 902368

Ion Ratio Lower Upper

117 100

82 53.4 43.7 65.5

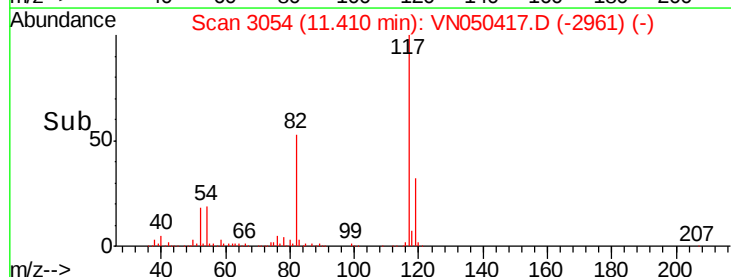
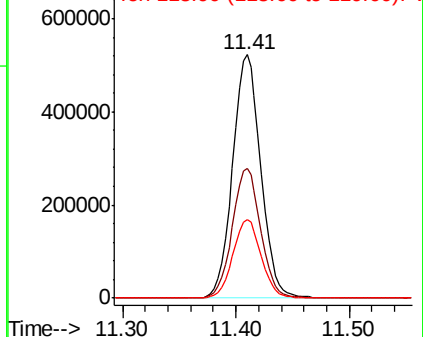
119 32.5 26.1 39.1

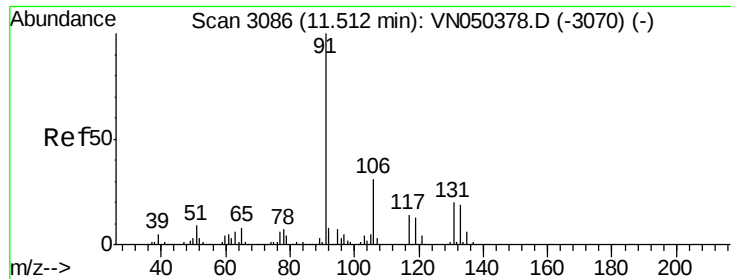


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

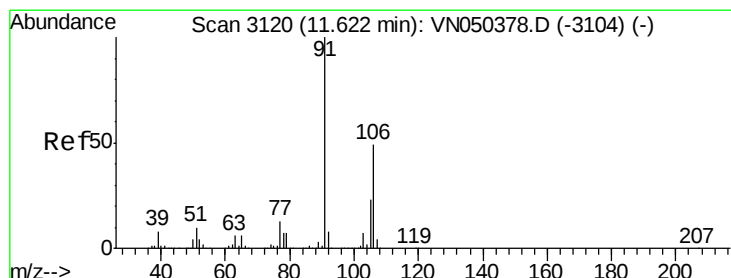
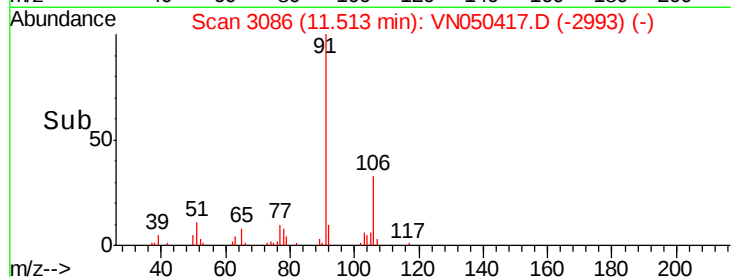
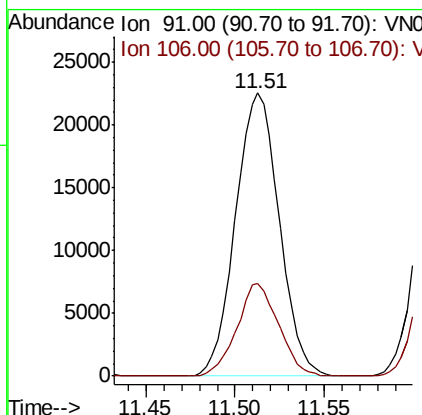
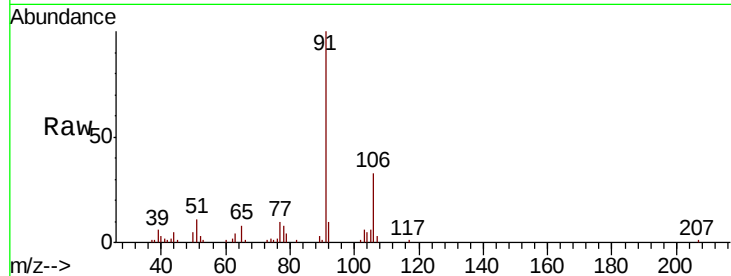




#67  
Ethyl Benzene  
Concen: 1.06 ug/l  
RT: 11.51 min Scan# 3086  
Delta R.T. 0.00 min  
Lab File: VN050417.D  
Acq: 7 Aug 2018 5:56

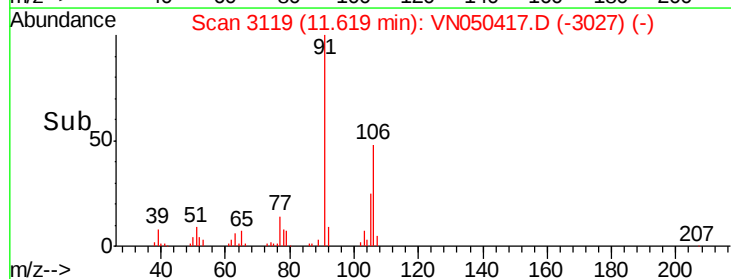
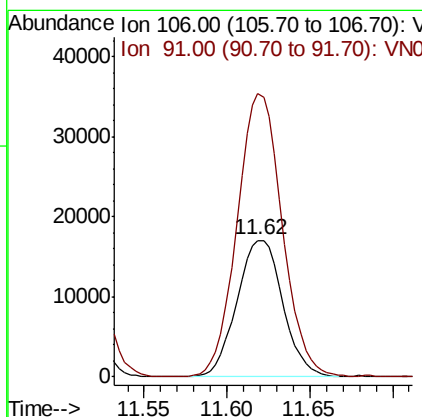
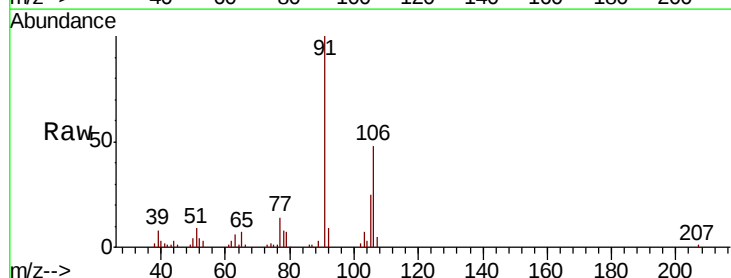
Instrument :  
MSVOA\_N  
ClientSampled :  
TR-04-080318

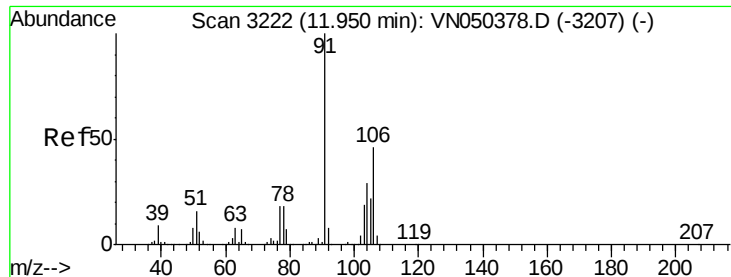
Tot Ion: 91 Resp: 38631  
Ion Ratio Lower Upper  
91 100  
106 32.8 25.0 37.4



#68  
m/p-Xylenes  
Concen: 2.37 ug/l  
RT: 11.62 min Scan# 3119  
Delta R.T. -0.00 min  
Lab File: VN050417.D  
Acq: 7 Aug 2018 5:56

Tgt Ion: 106 Resp: 32954  
Ion Ratio Lower Upper  
106 100  
91 203.5 162.2 243.2

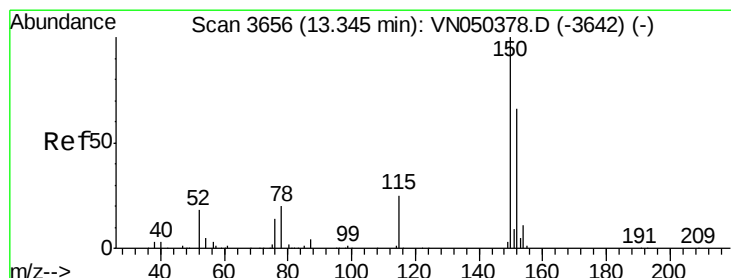
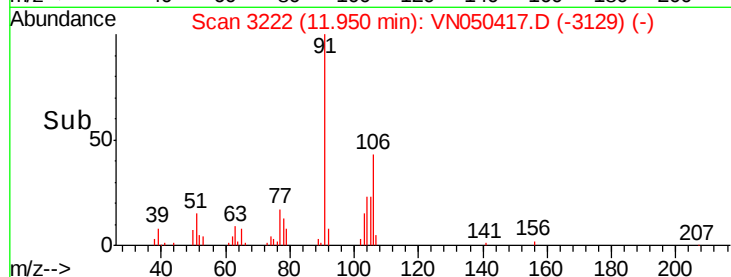
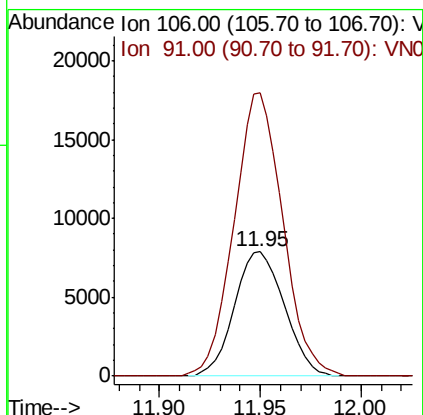
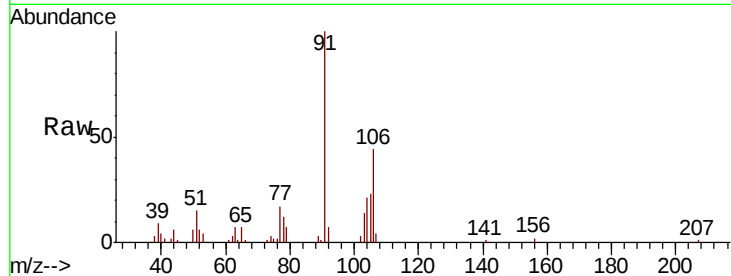




#69  
o-Xylene  
Concen: 1.02 ug/l  
RT: 11.95 min Scan# 3222  
Delta R.T. 0.00 min  
Lab File: VN050417.D  
Acq: 7 Aug 2018 5:56

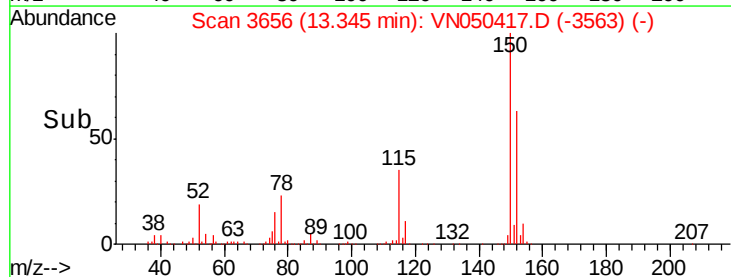
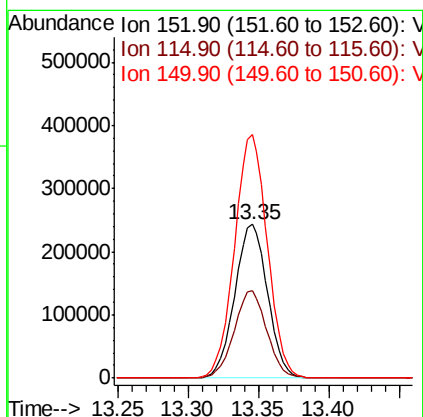
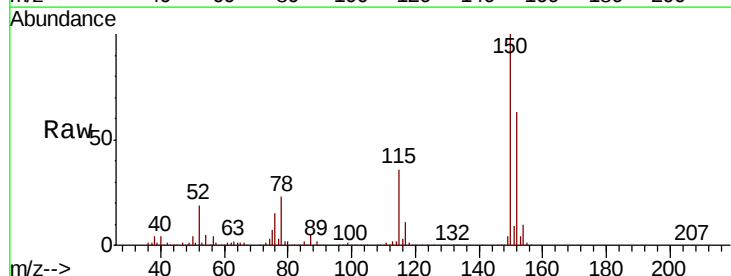
Instrument :  
MSVOA\_N  
ClientSampleId :  
TR-04-080318

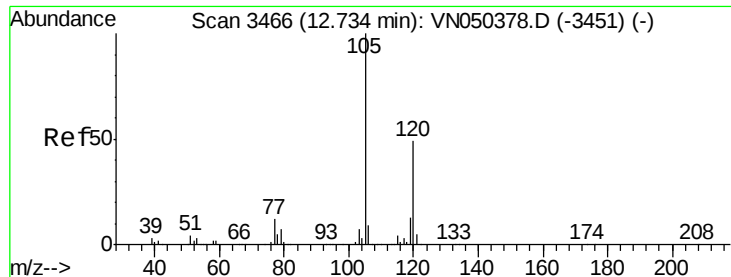
Tot Ion:106 Resp: 13642  
Ion Ratio Lower Upper  
106 100  
91 222.6 107.7 323.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.35 min Scan# 3656  
Delta R.T. 0.00 min  
Lab File: VN050417.D  
Acq: 7 Aug 2018 5:56

Tgt Ion:152 Resp: 396960  
Ion Ratio Lower Upper  
152 100  
115 56.7 27.8 83.3  
150 158.0 0.0 348.6





#80

1,3,5-Trimethylbenzene

Concen: 1.09 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050417.D

Acq: 7 Aug 2018 5:56

Instrument :

MSVOA\_N

ClientSampled :

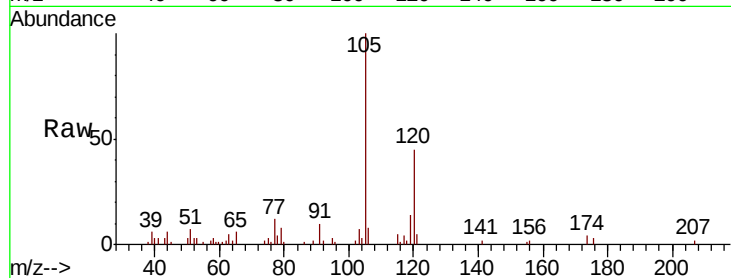
TR-04-080318

Tot Ion:105 Resp: 26294

Ion Ratio Lower Upper

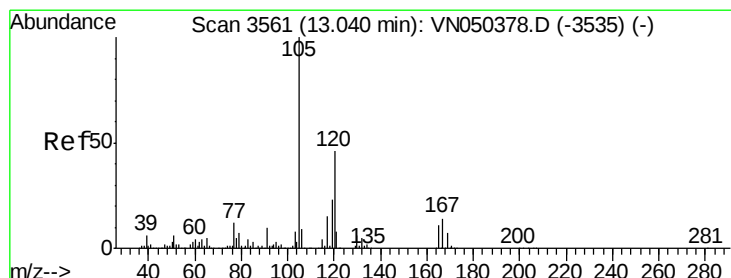
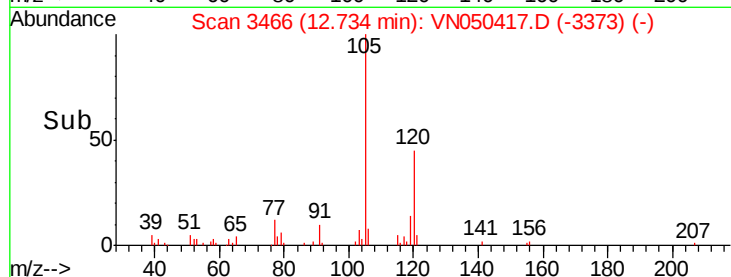
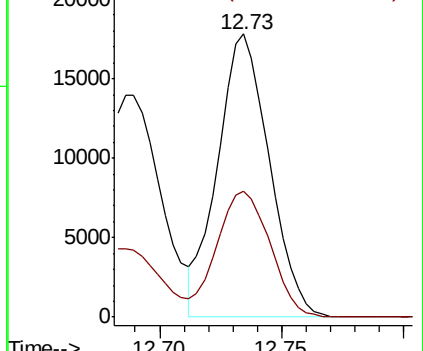
105 100

120 45.7 24.4 73.2



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: 3.73 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. 0.00 min

Lab File: VN050417.D

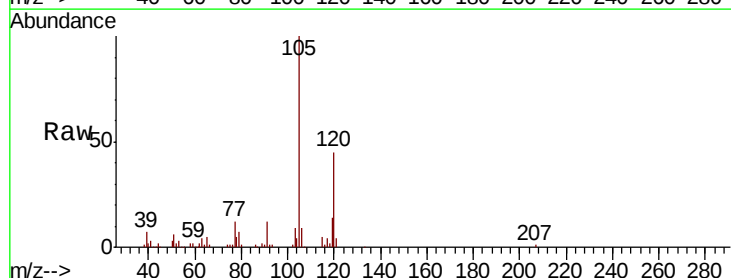
Acq: 7 Aug 2018 5:56

Tgt Ion:105 Resp: 91495

Ion Ratio Lower Upper

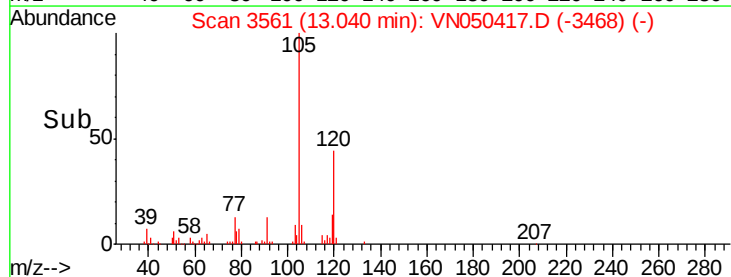
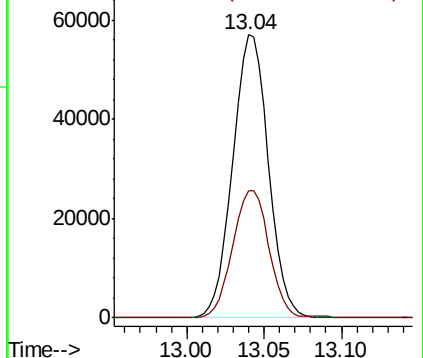
105 100

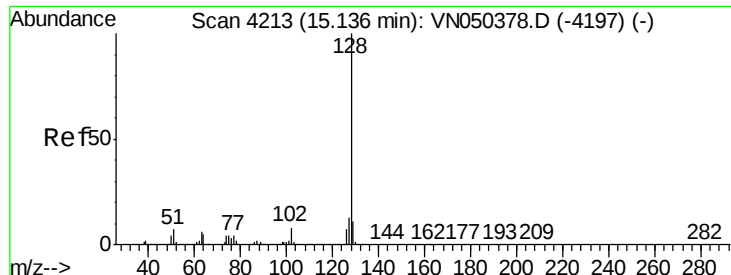
120 45.9 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

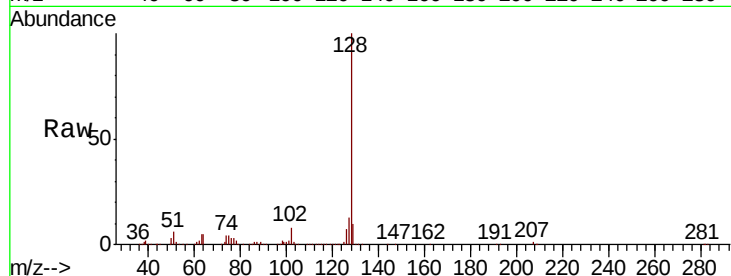




#95  
Naphthalene  
Concen: 46.66 ug/l  
RT: 15.14 min Scan# 4213  
Delta R.T. 0.00 min  
Lab File: VN050417.D  
Acq: 7 Aug 2018 5:56

Instrument :  
MSVOA\_N  
ClientSampleId :  
TR-04-080318

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.0  | 10.4  | 15.6  |
| 129     | 10.8  | 8.8   | 13.2  |



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

