

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN111918\  
 Data File : VN052395.D  
 Acq On : 19 Nov 2018 19:47  
 Operator : MD\SY  
 Sample : J5975-02  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VB44949

Quant Time: Nov 20 07:58:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N111418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 15 03:02:37 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 291867   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 482778   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 401134   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 151036   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 212329   | 51.51 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.02% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 160798   | 51.64 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.28% |      |
| 50) Toluene-d8              | 10.09  | 98  | 604923   | 49.38 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.76%  |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 180330   | 44.75 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.50%  |      |

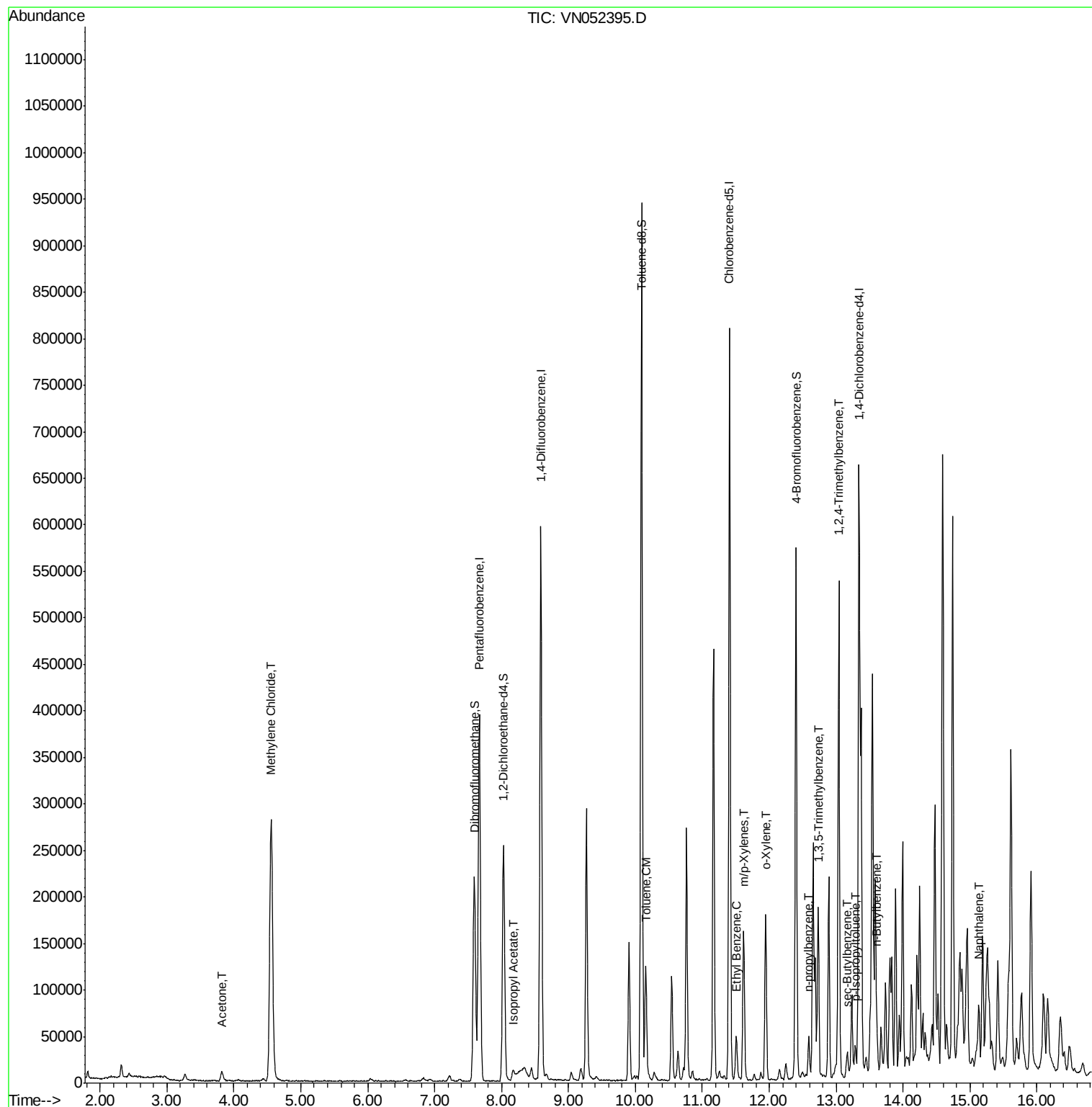
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 16) Acetone                | 3.82  | 43   | 18145    | 15.99 | ug/l   | 89     |
| 20) Methylene Chloride     | 4.56  | 84   | 185621   | 53.81 | ug/l   | 97     |
| 43) Isopropyl Acetate      | 8.17  | 43   | 15519    | 2.29  | ug/l # | 89     |
| 52) Toluene                | 10.16 | 92   | 49275    | 5.96  | ug/l   | 97     |
| 67) Ethyl Benzene          | 11.51 | 91   | 28389    | 1.93  | ug/l   | 98     |
| 68) m/p-Xylenes            | 11.62 | 106  | 45407    | 8.44  | ug/l   | 95     |
| 69) o-Xylene               | 11.95 | 106  | 44318    | 8.60  | ug/l   | 96     |
| 78) n-propylbenzene        | 12.59 | 91   | 31702    | 2.23  | ug/l   | 99     |
| 80) 1,3,5-Trimethylbenzene | 12.73 | 105  | 87195    | 9.03  | ug/l   | 98     |
| 84) 1,2,4-Trimethylbenzene | 13.04 | 105  | 283578   | 29.25 | ug/l   | 98     |
| 85) sec-Butylbenzene       | 13.17 | 105  | 13914    | 1.20  | ug/l   | 92     |
| 86) p-Isopropyltoluene     | 13.29 | 119  | 13545    | 1.38  | ug/l   | 98     |
| 89) n-Butylbenzene         | 13.61 | 91   | 11755    | 1.39  | ug/l # | 51     |
| 95) Naphthalene            | 15.13 | 128  | 45518    | 10.67 | ug/l   | 96     |

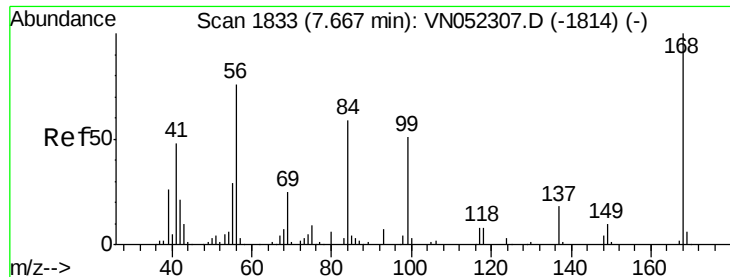
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Nov 15 03:02:37 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052395.D

Acq: 19 Nov 2018 19:47

Instrument :

MSVOA\_N

ClientSampleId :

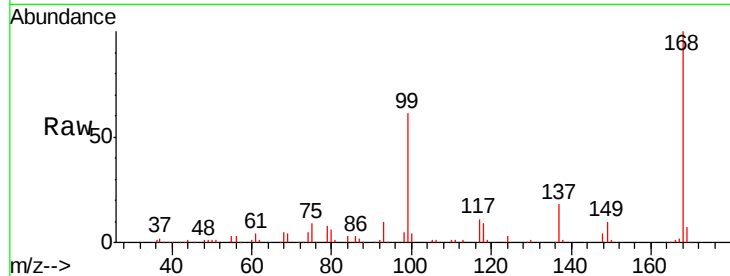
VB44949

Tgt Ion:168 Resp: 291867

Ion Ratio Lower Upper

168 100

99 60.6 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)

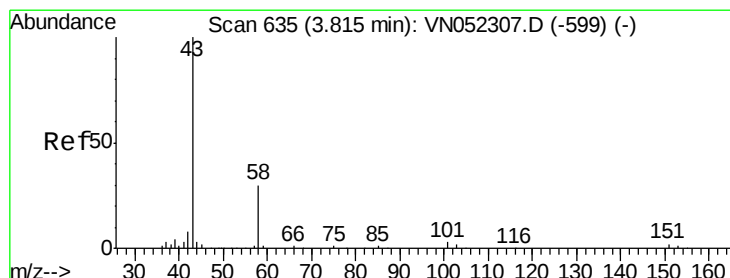
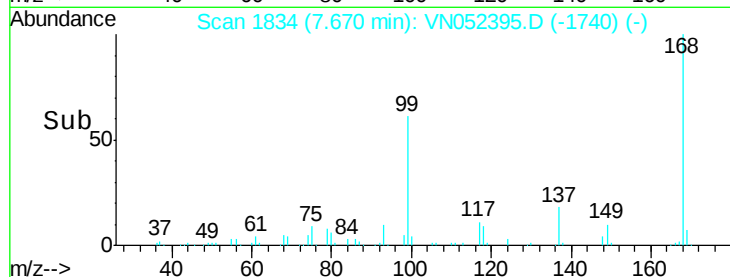
7.67

100000

50000

0

Time-->



#16

Acetone

Concen: 15.99 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052395.D

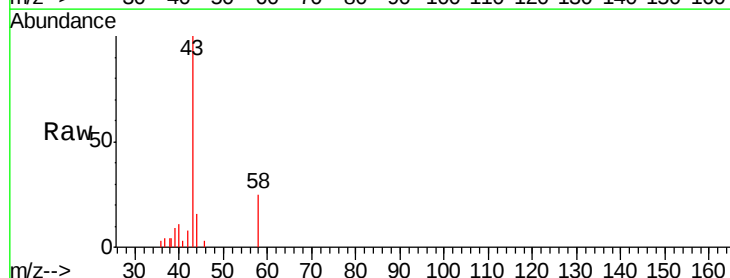
Acq: 19 Nov 2018 19:47

Tgt Ion: 43 Resp: 18145

Ion Ratio Lower Upper

43 100

58 24.5 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN052307.D (-599) (-)

3.82

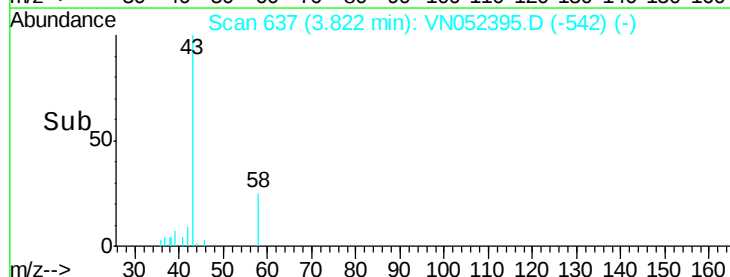
6000

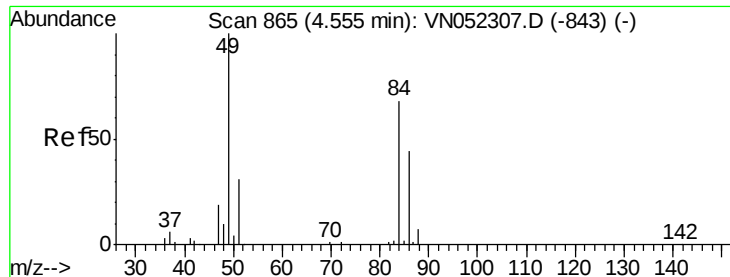
4000

2000

0

Time-->

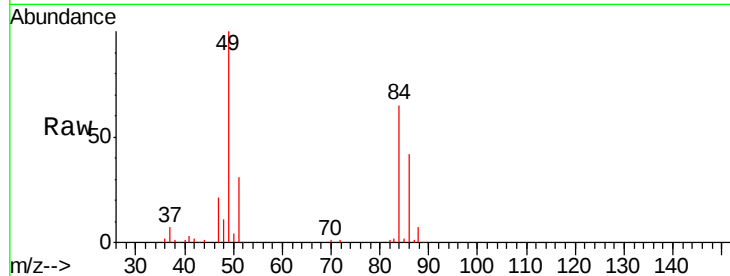




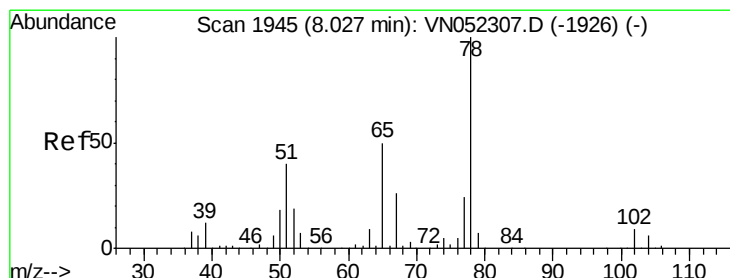
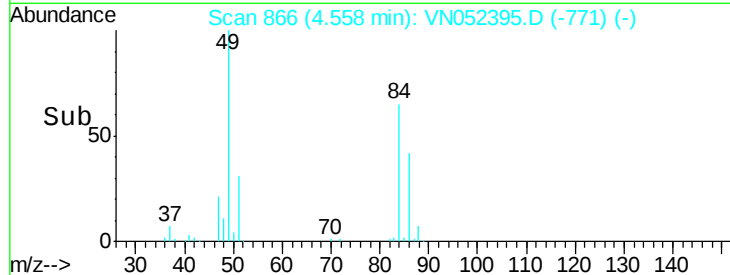
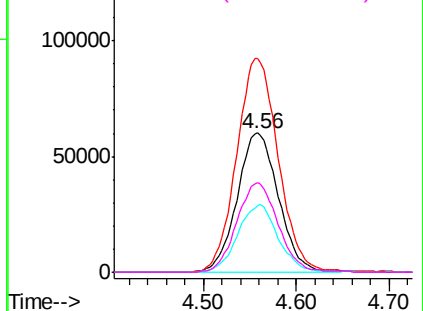
#20  
Methylene Chloride  
Concen: 53.81 ug/l  
RT: 4.56 min Scan# 866  
Delta R.T. 0.00 min  
Lab File: VN052395.D  
Acq: 19 Nov 2018 19:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VB44949

Tgt Ion: 84 Resp: 185621  
Ion Ratio Lower Upper  
84 100  
49 153.3 118.2 177.2  
51 48.2 36.1 54.1  
86 64.5 51.6 77.4

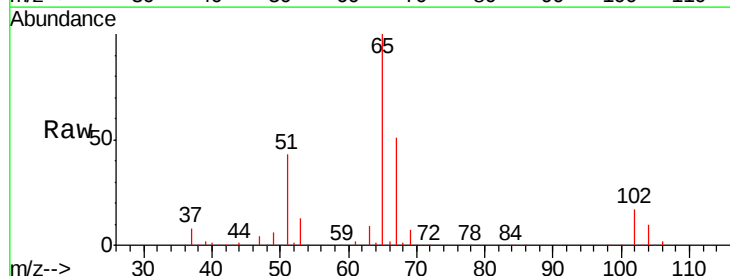


Abundance Ion 83.90 (83.60 to 84.60): VNO  
Ion 48.90 (48.60 to 49.60): VNO  
Ion 50.90 (50.60 to 51.60): VNO  
Ion 85.90 (85.60 to 86.60): VNO

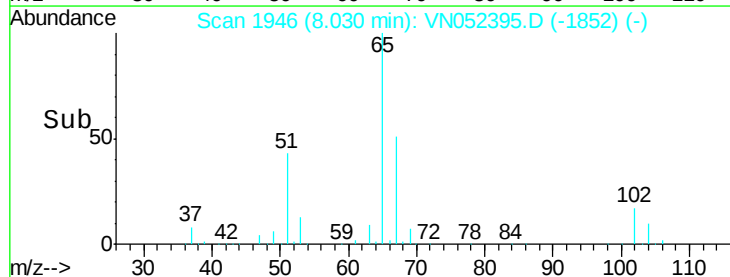
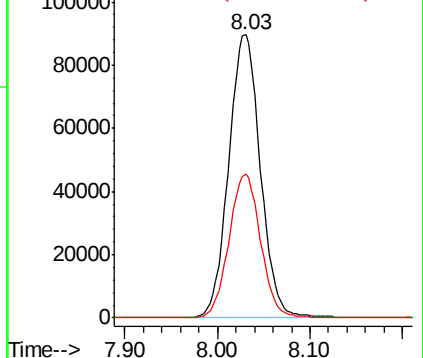


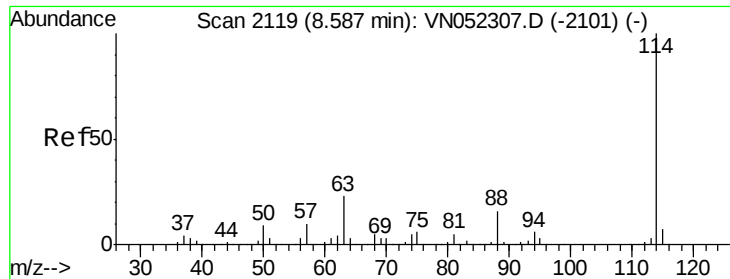
#33  
1,2-Dichloroethane-d4  
Concen: Below ug/l  
RT: 8.03 min Scan# 1946  
Delta R.T. 0.00 min  
Lab File: VN052395.D  
Acq: 19 Nov 2018 19:47

Tgt Ion: 65 Resp: 212329  
Ion Ratio Lower Upper  
65 100  
67 50.7 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VNO  
Ion 66.90 (66.60 to 67.60): VNO

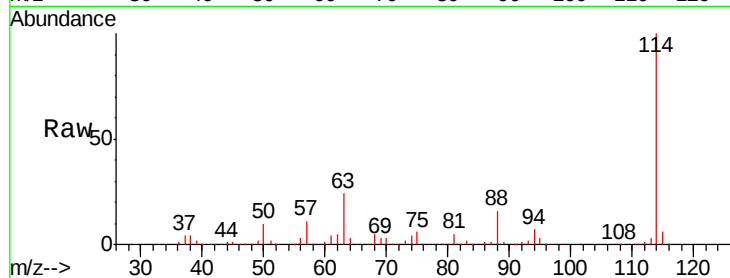




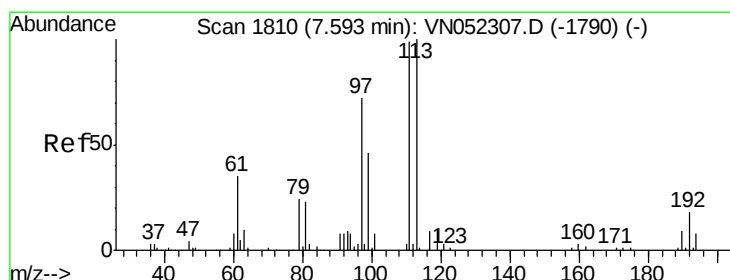
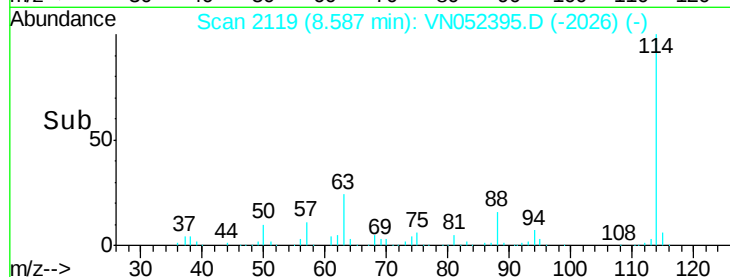
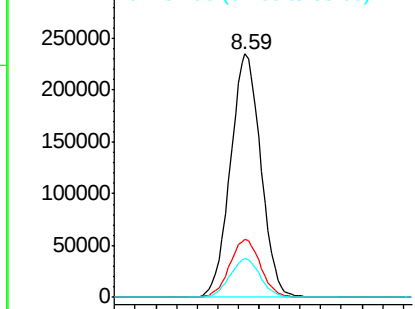
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN052395.D  
 Acq: 19 Nov 2018 19:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VB44949

Tgt Ion:114 Resp: 482778  
 Ion Ratio Lower Upper  
 114 100  
 63 23.6 0.0 45.4  
 88 15.8 0.0 31.2

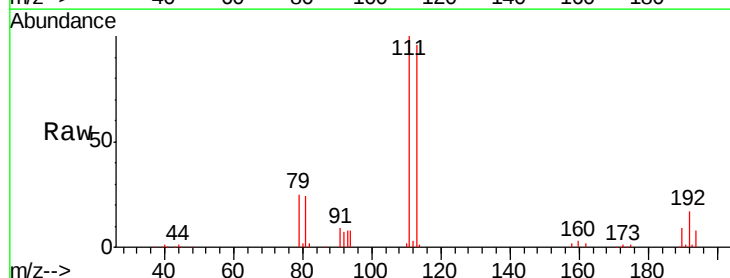


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

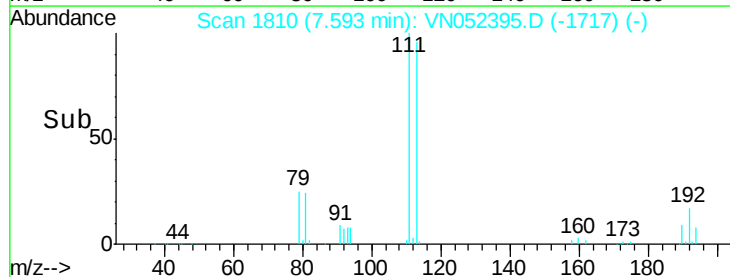
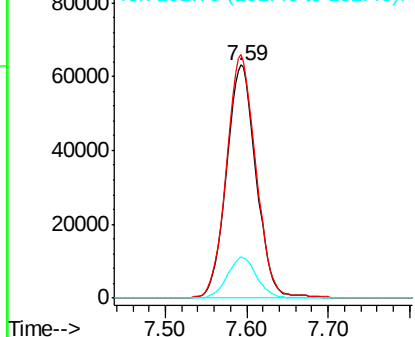


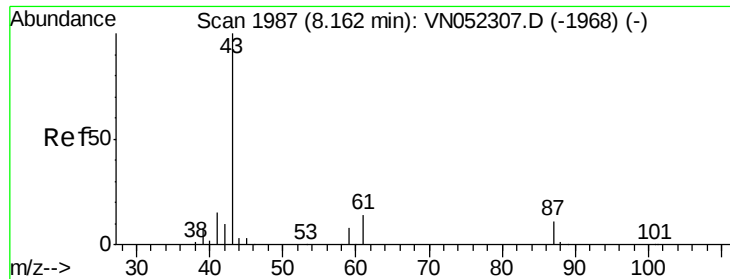
#35  
 Dibromofluoromethane  
 Concen: 50.00 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN052395.D  
 Acq: 19 Nov 2018 19:47

Tgt Ion:113 Resp: 160798  
 Ion Ratio Lower Upper  
 113 100  
 111 103.5 81.0 121.6  
 192 17.3 13.8 20.6



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: 2.29 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052395.D

Acq: 19 Nov 2018 19:47

Instrument :

MSVOA\_N

ClientSampleId :

VB44949

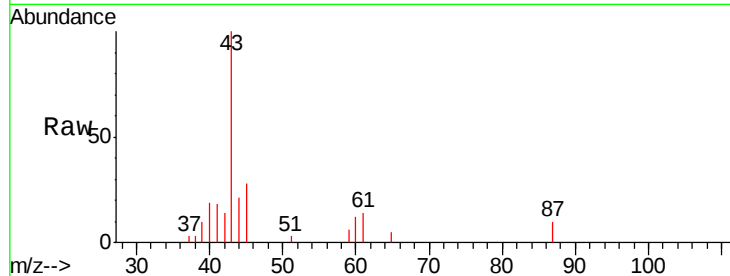
Tgt Ion: 43 Resp: 15519

Ion Ratio Lower Upper

43 100

61 10.3 12.0 18.0#

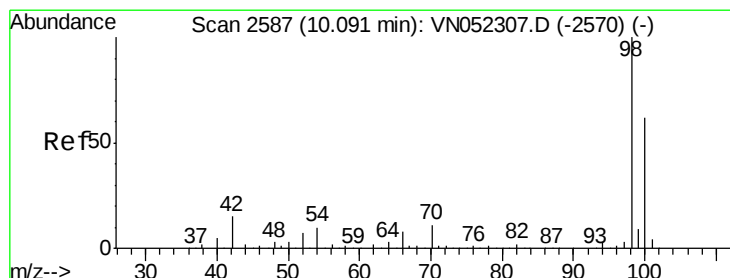
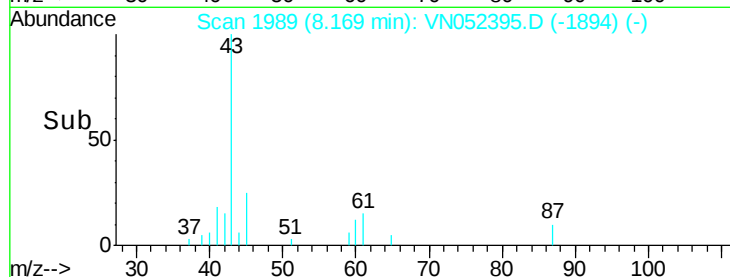
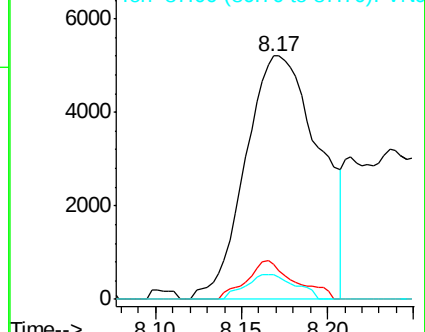
87 6.8 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN052307.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN052307.D (-1968) (-)



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052395.D

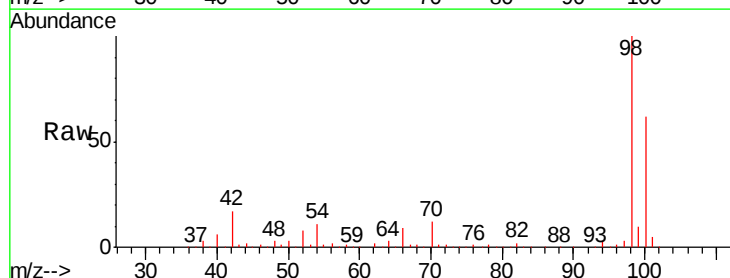
Acq: 19 Nov 2018 19:47

Tgt Ion: 98 Resp: 604923

Ion Ratio Lower Upper

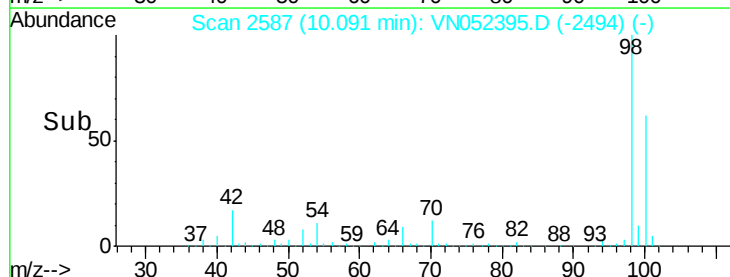
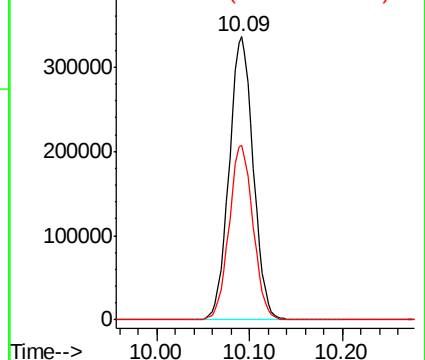
98 100

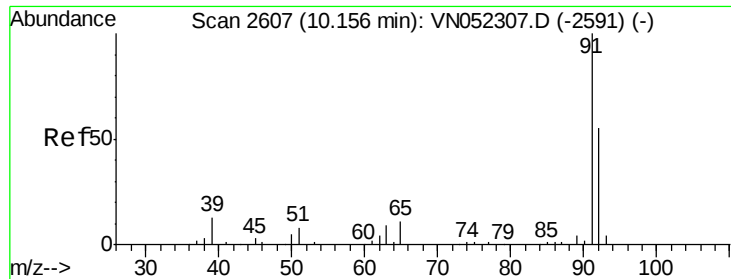
100 61.4 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN052307.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052307.D (-2570) (-)





#52

Toluene

Concen: 5.96 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052395.D

Acq: 19 Nov 2018 19:47

Instrument :

MSVOA\_N

ClientSampled :

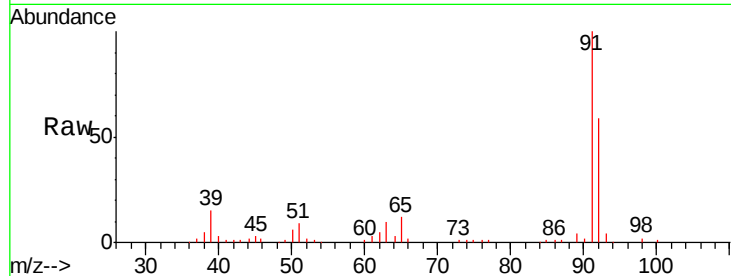
VB44949

Tgt Ion: 92 Resp: 49275

Ion Ratio Lower Upper

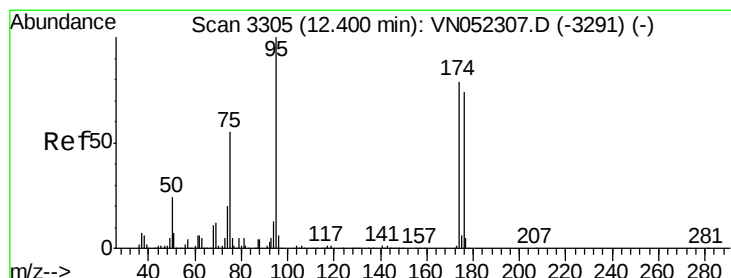
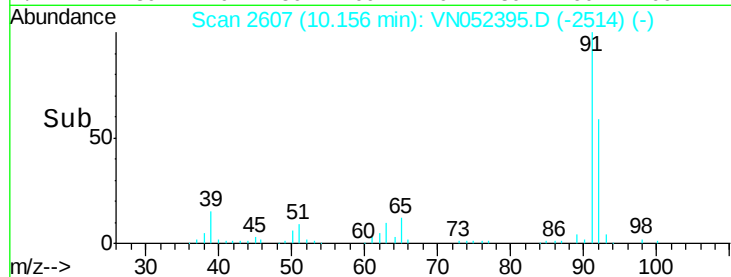
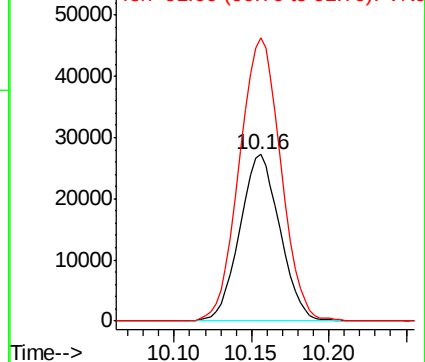
92 100

91 174.6 143.6 215.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052395.D

Acq: 19 Nov 2018 19:47

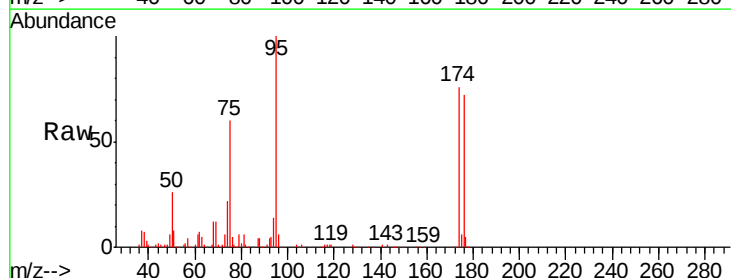
Tgt Ion: 95 Resp: 180330

Ion Ratio Lower Upper

95 100

174 74.6 0.0 156.0

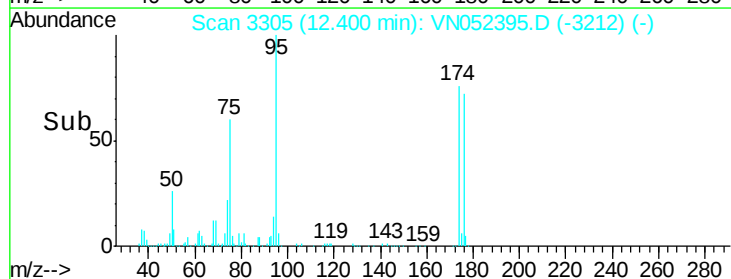
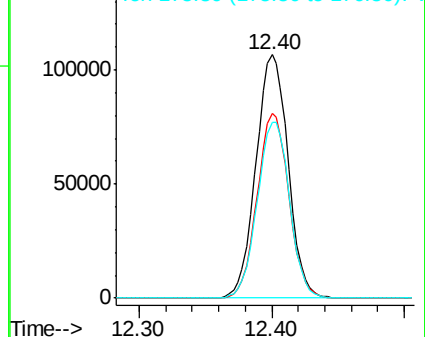
176 72.6 0.0 148.4

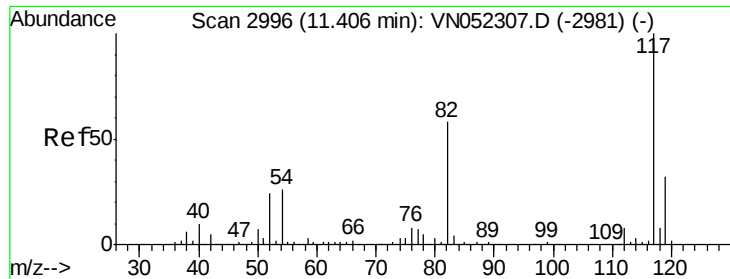


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052395.D

Acq: 19 Nov 2018 19:47

Instrument :

MSVOA\_N

ClientSampled :

VB44949

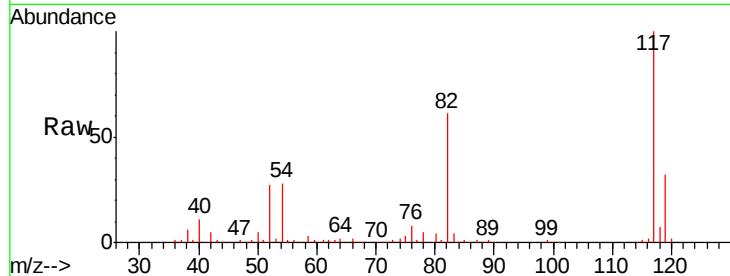
Tgt Ion: 117 Resp: 401134

Ion Ratio Lower Upper

117 100

82 61.3 46.5 69.7

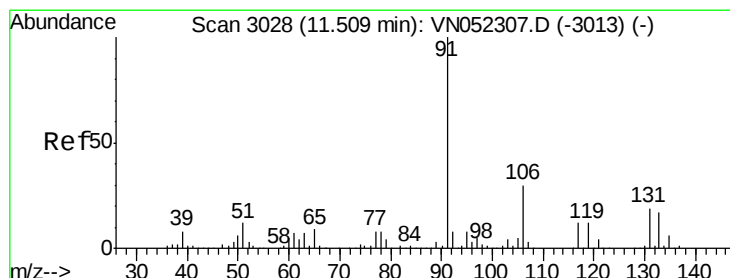
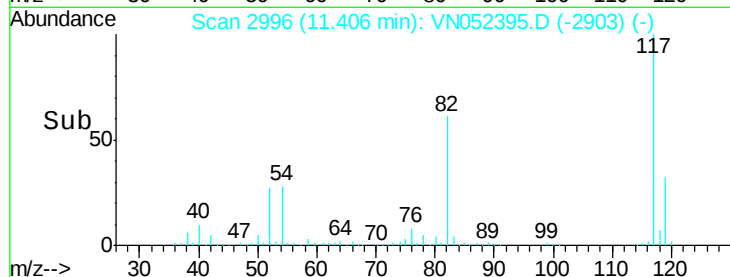
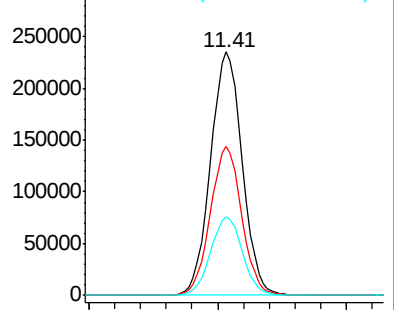
119 32.2 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 1.93 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052395.D

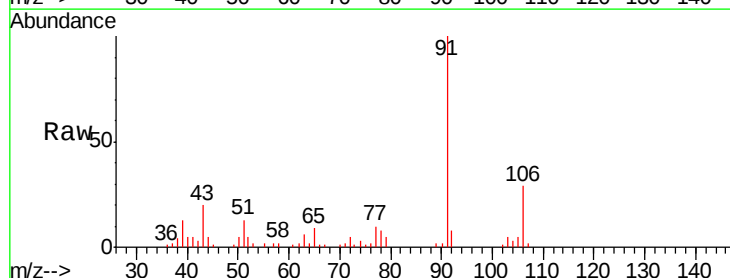
Acq: 19 Nov 2018 19:47

Tgt Ion: 91 Resp: 28389

Ion Ratio Lower Upper

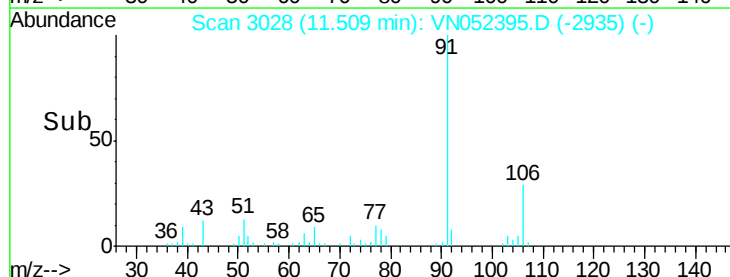
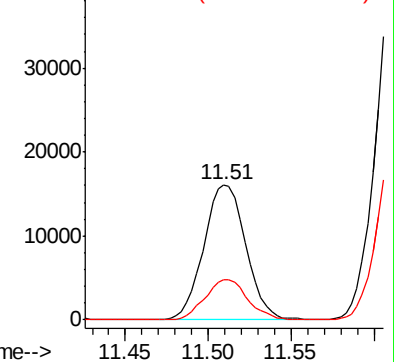
91 100

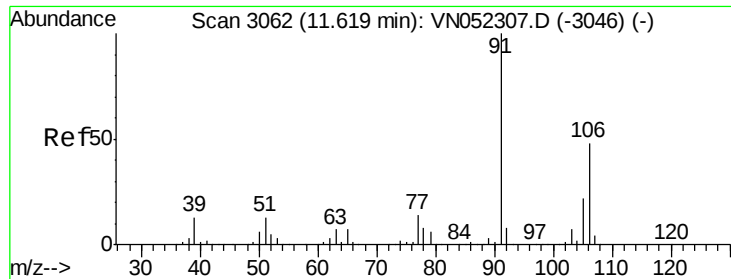
106 29.3 24.2 36.2



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 106.00 (105.70 to 106.70): V

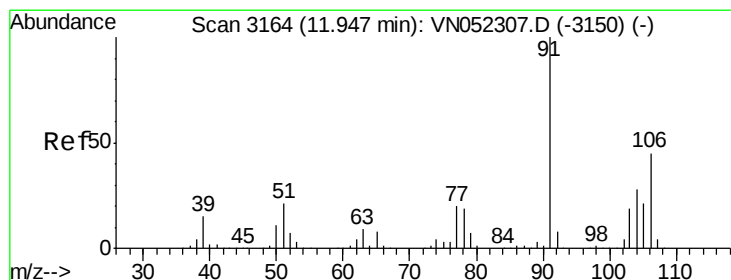
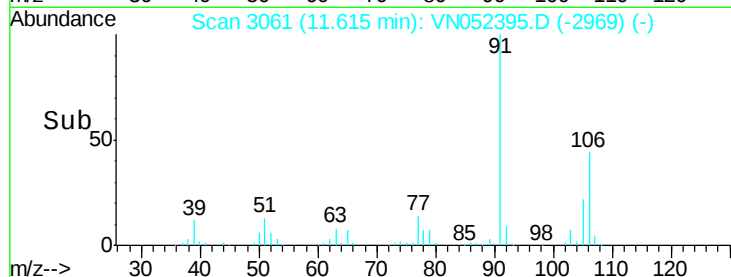
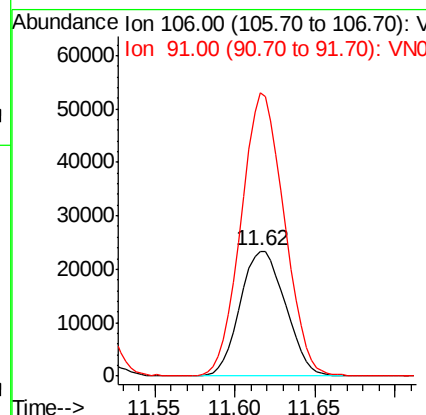
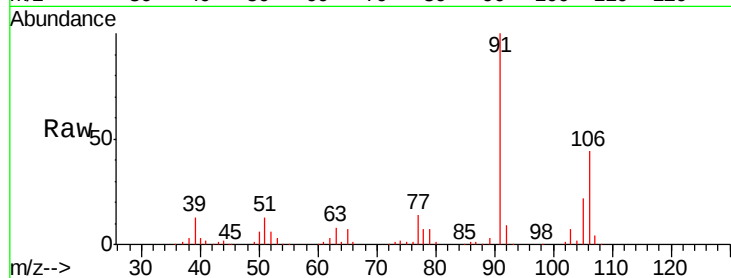




#68  
m/p-Xylenes  
Concen: 8.44 ug/l  
RT: 11.62 min Scan# 3061  
Delta R.T. -0.00 min  
Lab File: VN052395.D  
Acq: 19 Nov 2018 19:47

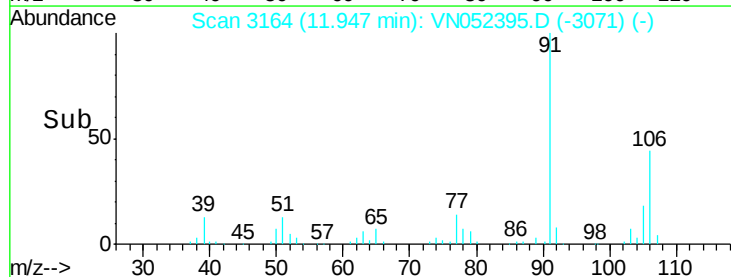
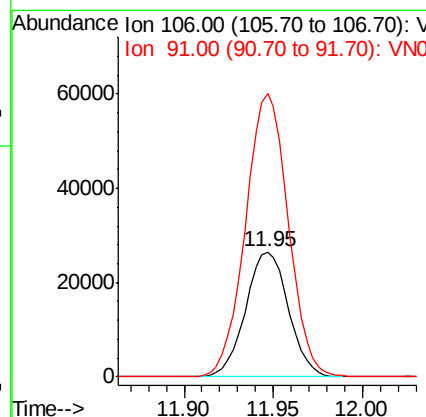
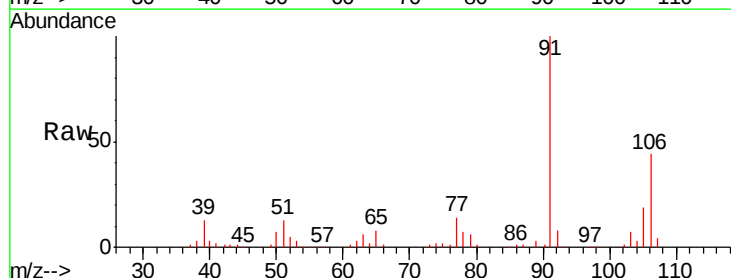
Instrument :  
MSVOA\_N  
ClientSampled :  
VB44949

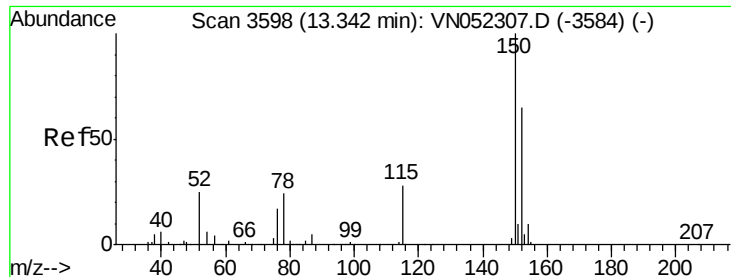
Tgt Ion:106 Resp: 45407  
Ion Ratio Lower Upper  
106 100  
91 215.2 165.5 248.3



#69  
o-Xylene  
Concen: 8.60 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: VN052395.D  
Acq: 19 Nov 2018 19:47

Tgt Ion:106 Resp: 44318  
Ion Ratio Lower Upper  
106 100  
91 226.7 110.0 330.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052395.D

Acq: 19 Nov 2018 19:47

Instrument :

MSVOA\_N

ClientSampleId :

VB44949

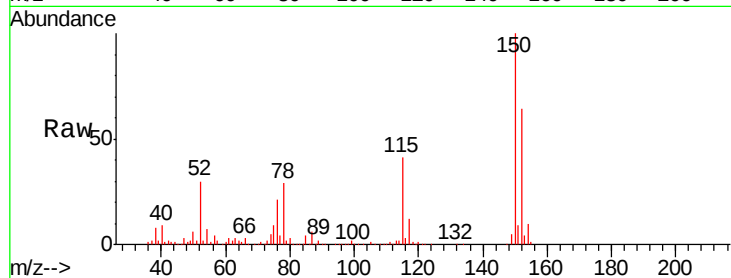
Tgt Ion:152 Resp: 151036

Ion Ratio Lower Upper

152 100

115 67.5 30.3 91.0

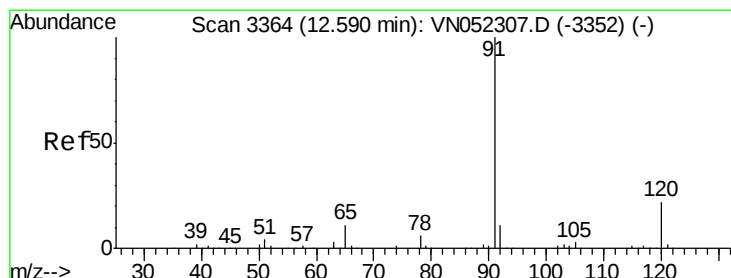
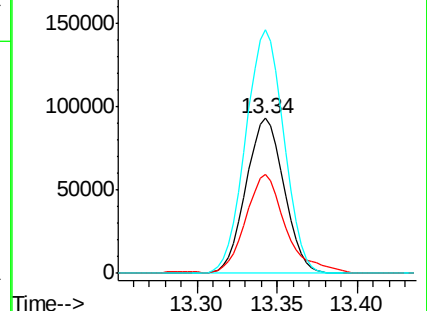
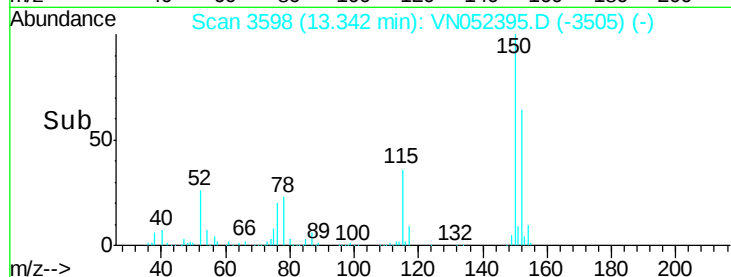
150 157.7 0.0 348.2



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



#78

n-propylbenzene

Concen: 2.23 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN052395.D

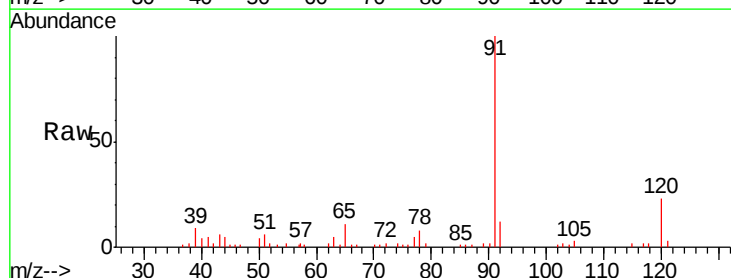
Acq: 19 Nov 2018 19:47

Tgt Ion: 91 Resp: 31702

Ion Ratio Lower Upper

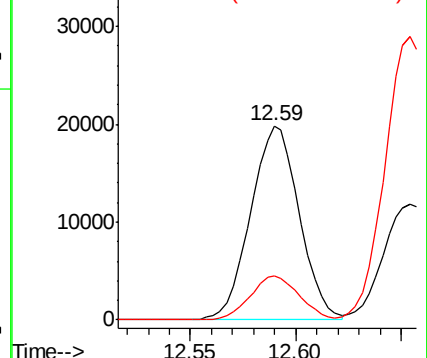
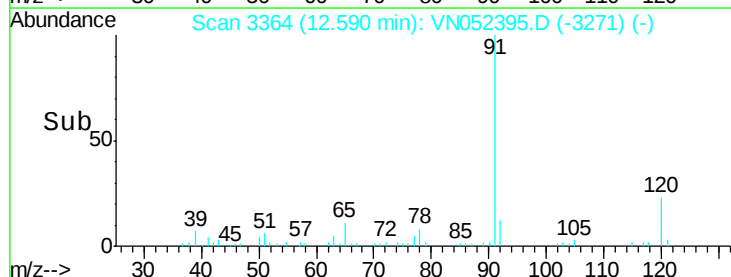
91 100

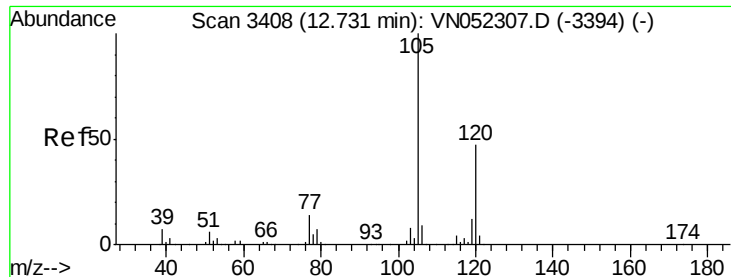
120 22.8 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 9.03 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052395.D

Acq: 19 Nov 2018 19:47

Instrument :

MSVOA\_N

ClientSampled :

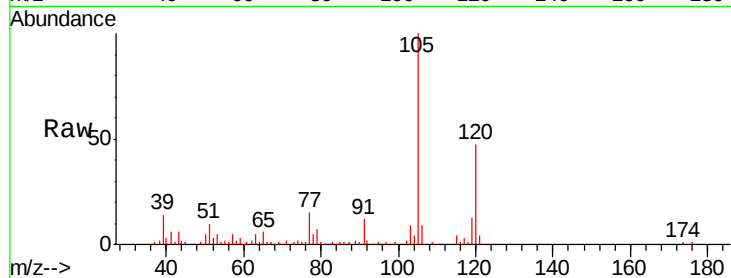
VB44949

Tgt Ion:105 Resp: 87195

Ion Ratio Lower Upper

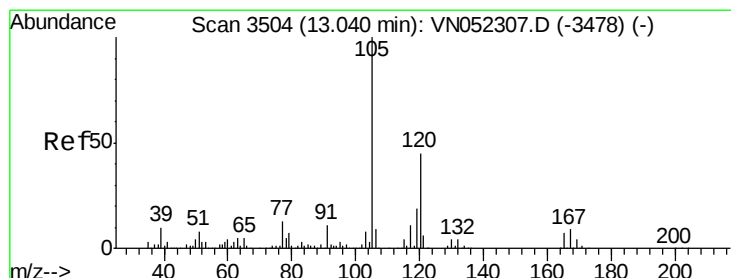
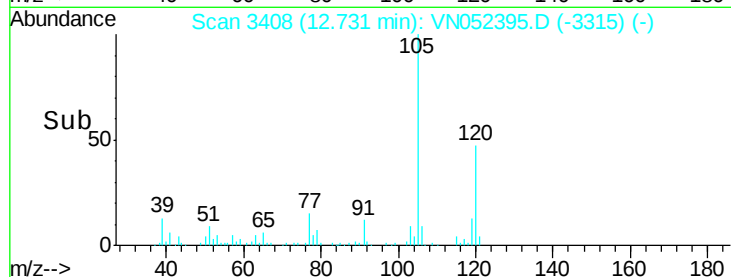
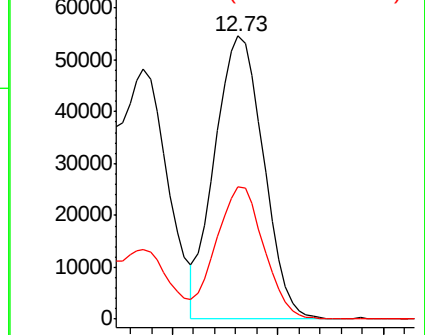
105 100

120 46.1 23.7 71.1



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: 29.25 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN052395.D

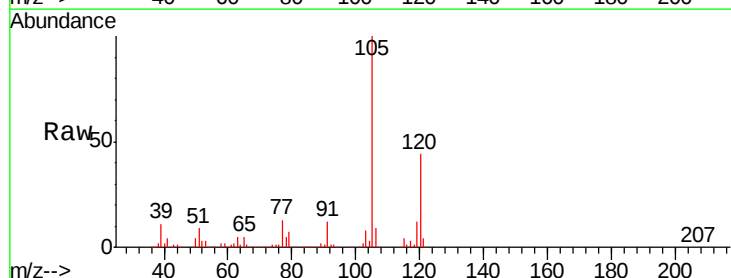
Acq: 19 Nov 2018 19:47

Tgt Ion:105 Resp: 283578

Ion Ratio Lower Upper

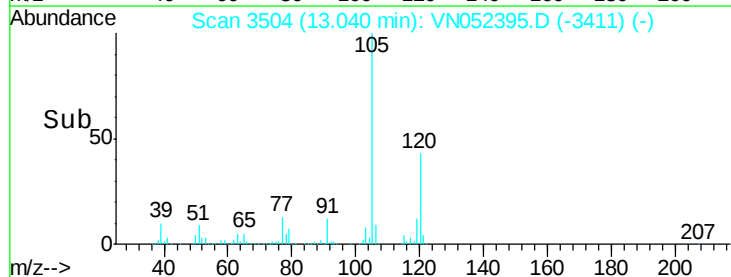
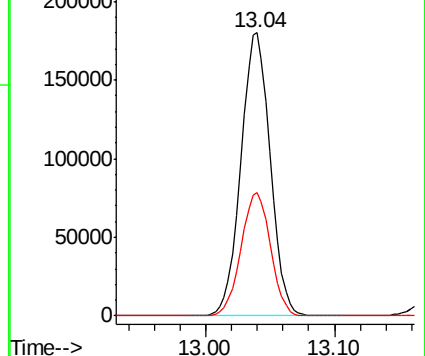
105 100

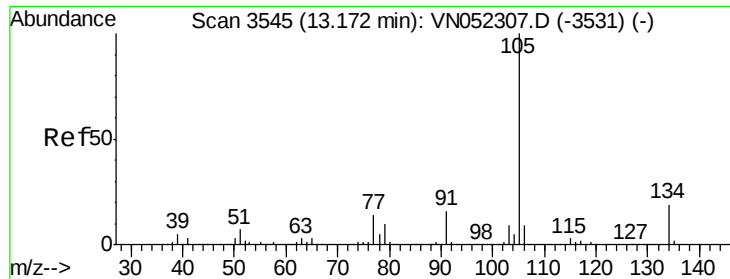
120 43.8 22.5 67.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

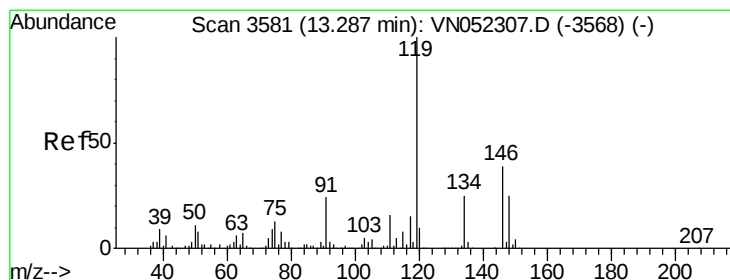
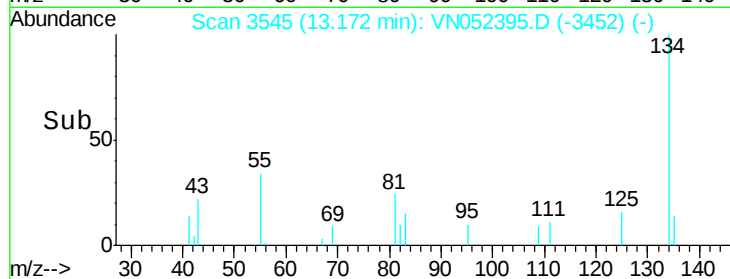
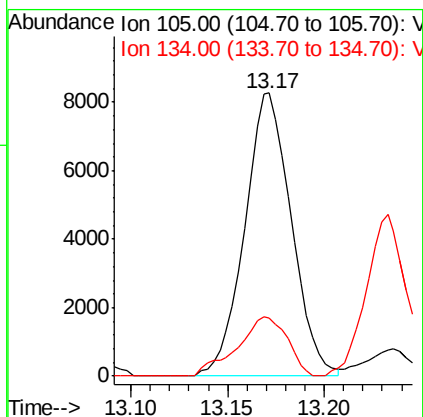
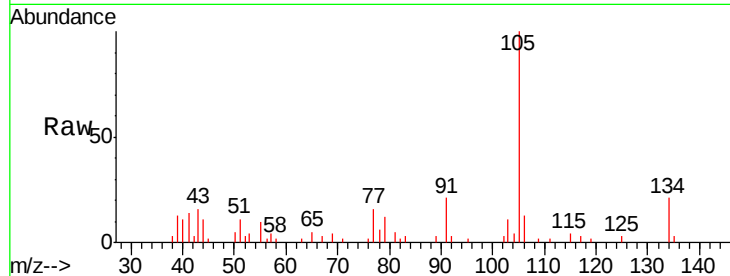




#85  
 sec-Butylbenzene  
 Concen: 1.20 ug/l  
 RT: 13.17 min Scan# 3545  
 Delta R.T. 0.00 min  
 Lab File: VN052395.D  
 Acq: 19 Nov 2018 19:47

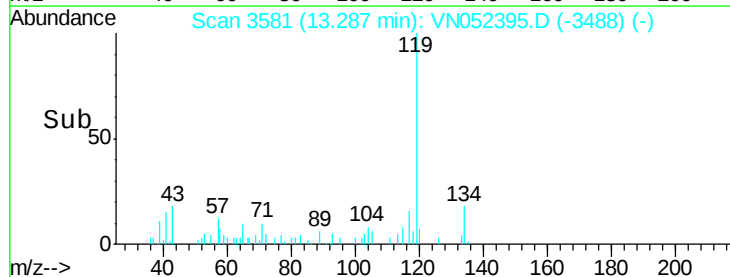
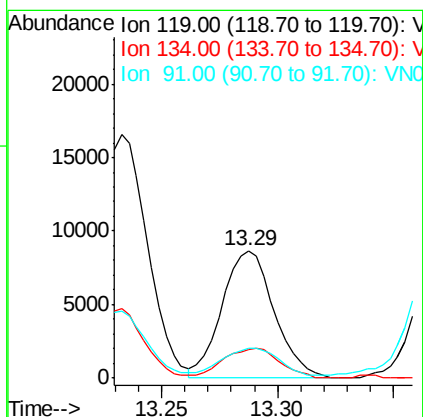
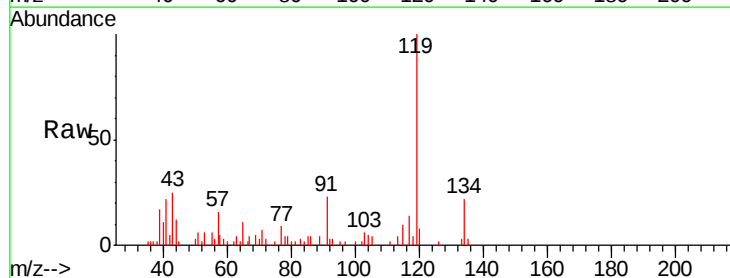
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VB44949

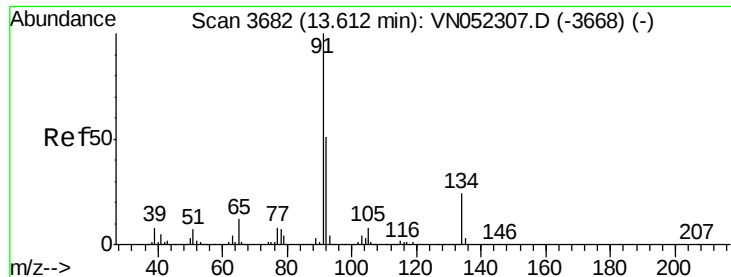
Tgt Ion:105 Resp: 13914  
 Ion Ratio Lower Upper  
 105 100  
 134 22.5 9.5 28.5



#86  
 p-Isopropyltoluene  
 Concen: 1.38 ug/l  
 RT: 13.29 min Scan# 3581  
 Delta R.T. 0.00 min  
 Lab File: VN052395.D  
 Acq: 19 Nov 2018 19:47

Tgt Ion:119 Resp: 13545  
 Ion Ratio Lower Upper  
 119 100  
 134 25.4 13.0 38.9  
 91 23.2 12.4 37.0

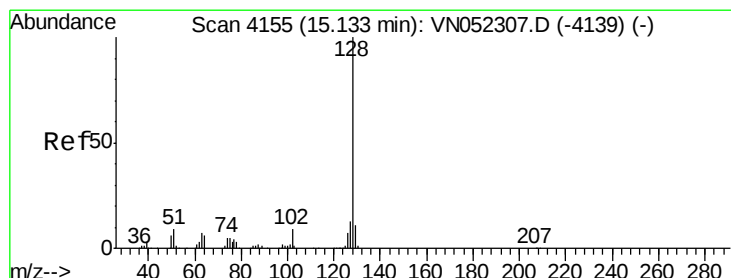
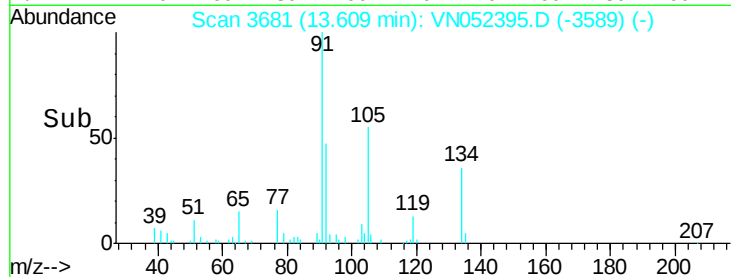
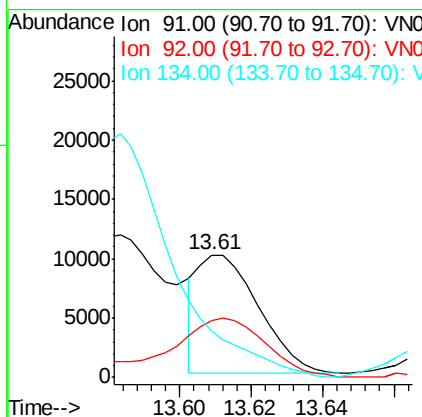
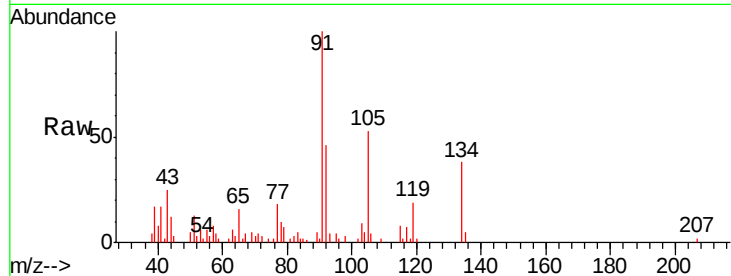




#89  
n-Butylbenzene  
Concen: 1.39 ug/l  
RT: 13.61 min Scan# 3681  
Delta R.T. -0.00 min  
Lab File: VN052395.D  
Acq: 19 Nov 2018 19:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VB44949

Tgt Ion: 91 Resp: 11755  
Ion Ratio Lower Upper  
91 100  
92 85.3 25.4 76.2#  
134 0.0 12.2 36.4#



#95  
Naphthalene  
Concen: 10.67 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN052395.D  
Acq: 19 Nov 2018 19:47

Tgt Ion: 128 Resp: 45518  
Ion Ratio Lower Upper  
128 100  
127 15.4 10.4 15.6  
129 11.1 8.6 13.0

