

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN122718\  
 Data File : VN053202.D  
 Acq On : 27 Dec 2018 10:36  
 Operator : MD\SY  
 Sample : J6571-10 50X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 50081

Quant Time: Dec 28 01:07:32 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 18 13:03:37 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1174801  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1823498  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1653326  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 712857   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 582365   | 48.85 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.70%  |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 508998   | 61.11 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 122.22% |      |
| 50) Toluene-d8              | 10.09  | 98  | 2247356  | 50.26 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.52% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 770703   | 49.10 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.20%  |      |

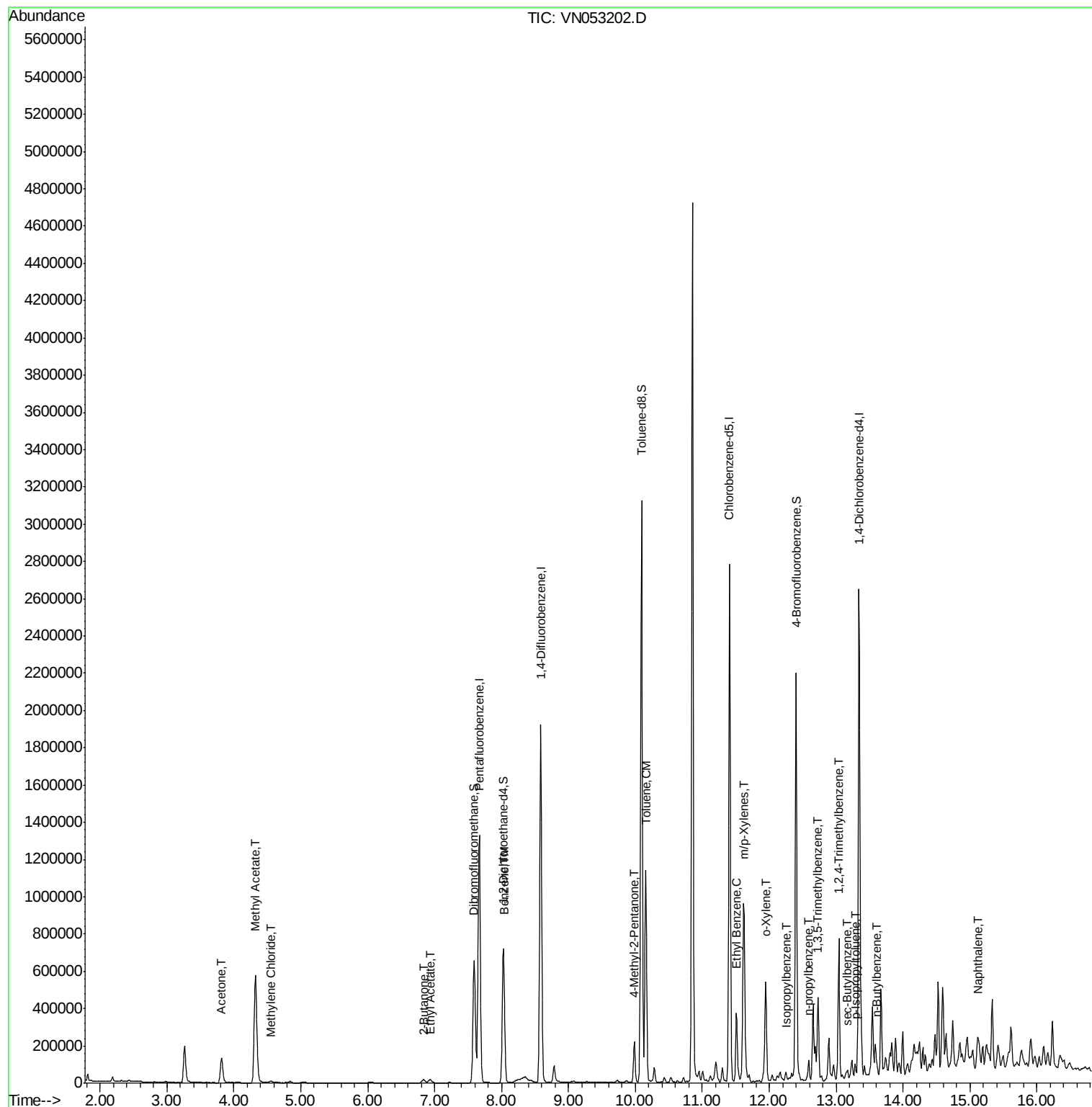
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                | 3.82  | 43   | 227220   | 97.205  | ug/l   | 99     |
| 18) Methyl Acetate         | 4.32  | 43   | 1101976  | 102.799 | ug/l   | 100    |
| 20) Methylene Chloride     | 4.56  | 84   | 5915     | 0.464   | ug/l   | 92     |
| 25) 2-Butanone             | 6.84  | 43   | 26687    | 6.803   | ug/l   | 99     |
| 37) Ethyl Acetate          | 6.93  | 43   | 34161    | 3.496   | ug/l # | 88     |
| 40) Benzene                | 8.04  | 78   | 37623    | 0.723   | ug/l   | 100    |
| 51) 4-Methyl-2-Pentanone   | 9.98  | 43   | 147720   | 15.612  | ug/l   | 100    |
| 52) Toluene                | 10.16 | 92   | 512549   | 15.884  | ug/l   | 100    |
| 67) Ethyl Benzene          | 11.51 | 91   | 266906   | 4.235   | ug/l   | 99     |
| 68) m/p-Xylenes            | 11.62 | 106  | 281587   | 11.752  | ug/l   | 99     |
| 69) o-Xylene               | 11.95 | 106  | 149483   | 6.502   | ug/l   | 99     |
| 73) Isopropylbenzene       | 12.25 | 105  | 28464    | 0.510   | ug/l   | 100    |
| 78) n-propylbenzene        | 12.59 | 91   | 88340    | 1.391   | ug/l   | 99     |
| 80) 1,3,5-Trimethylbenzene | 12.73 | 105  | 101388   | 2.230   | ug/l   | 98     |
| 84) 1,2,4-Trimethylbenzene | 13.04 | 105  | 438151   | 9.587   | ug/l   | 99     |
| 85) sec-Butylbenzene       | 13.17 | 105  | 25247    | 0.464   | ug/l   | 91     |
| 86) p-Isopropyltoluene     | 13.29 | 119  | 14665    | 0.312   | ug/l   | 93     |
| 89) n-Butylbenzene         | 13.61 | 91   | 26542    | 0.657   | ug/l # | 74     |
| 95) Naphthalene            | 15.13 | 128  | 92562    | 4.373   | ug/l   | 95     |

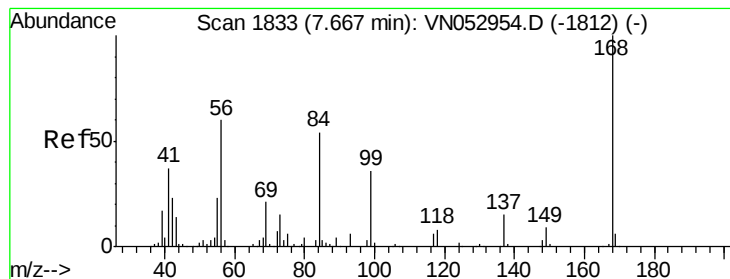
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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50081

Quant Time: Dec 28 01:07:32 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 18 13:03:37 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053202.D

Acq: 27 Dec 2018 10:36

Instrument :

MSVOA\_N

ClientSampled :

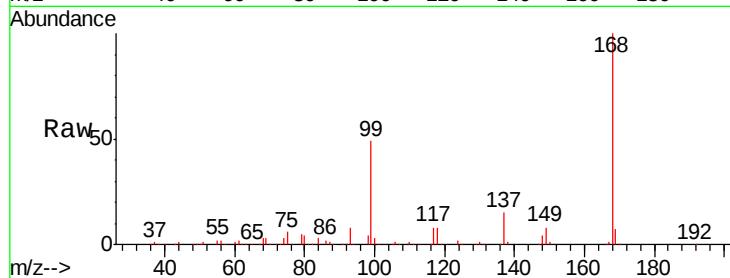
50081

Tgt Ion:168 Resp: 1174801

Ion Ratio Lower Upper

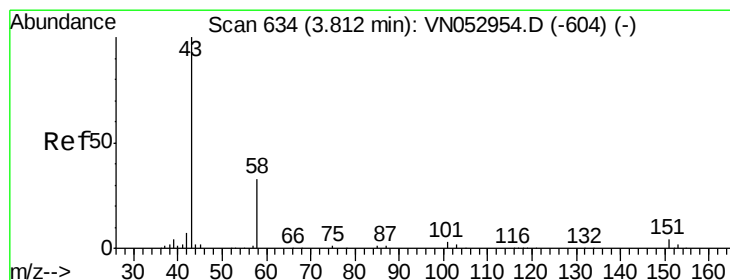
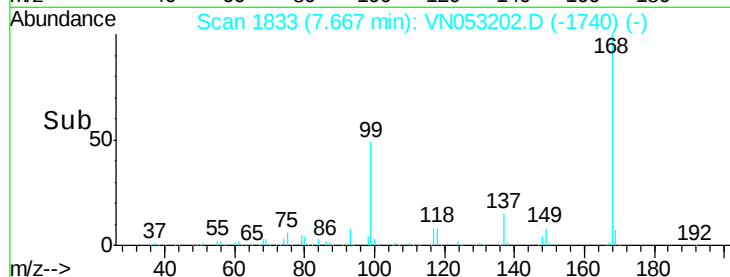
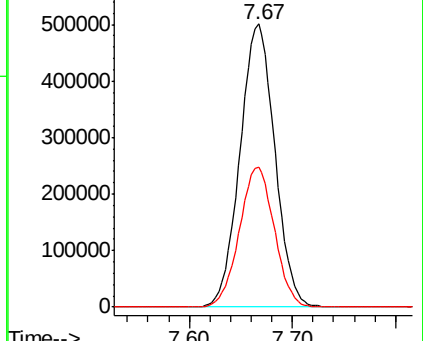
168 100

99 49.3 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN053202.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053202.D (-1740) (-)



#16

Acetone

Concen: 97.205 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053202.D

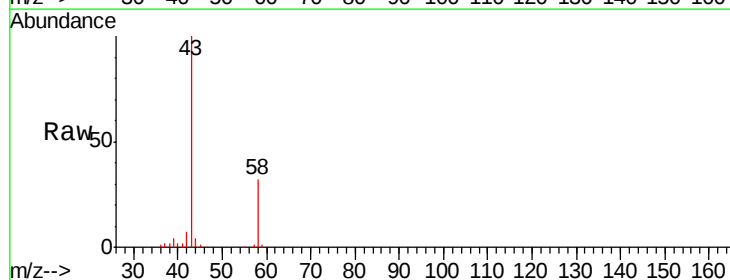
Acq: 27 Dec 2018 10:36

Tgt Ion: 43 Resp: 227220

Ion Ratio Lower Upper

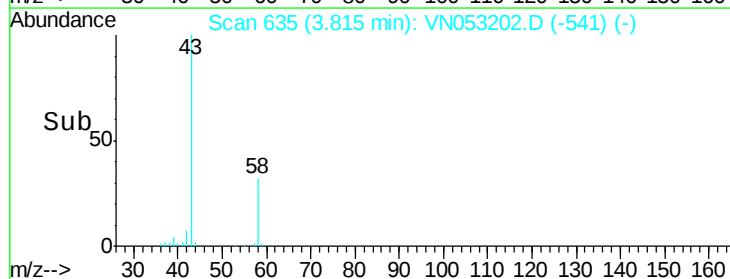
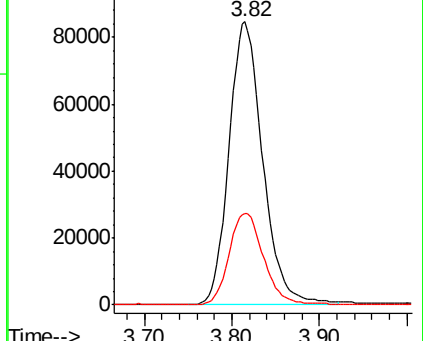
43 100

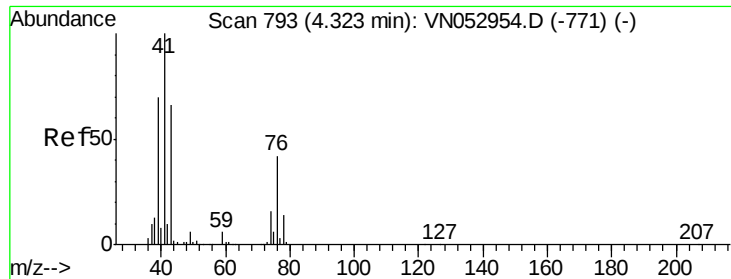
58 32.4 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN053202.D (-541) (-)

Ion 58.00 (57.70 to 58.70): VN053202.D (-541) (-)

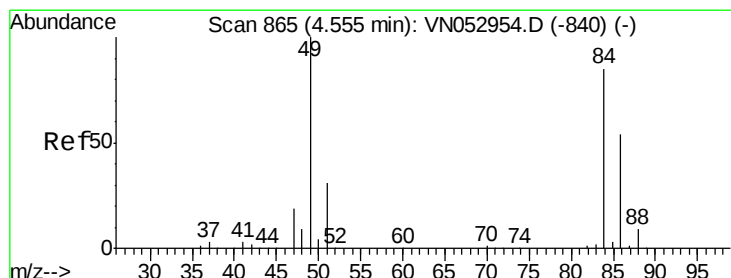
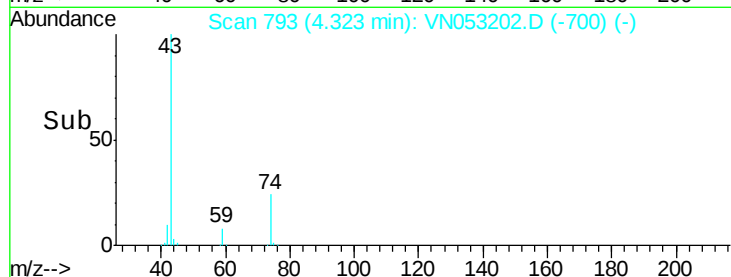
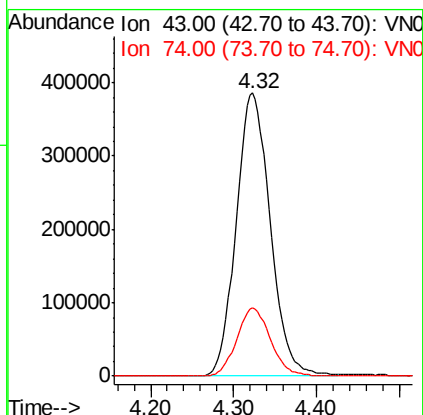
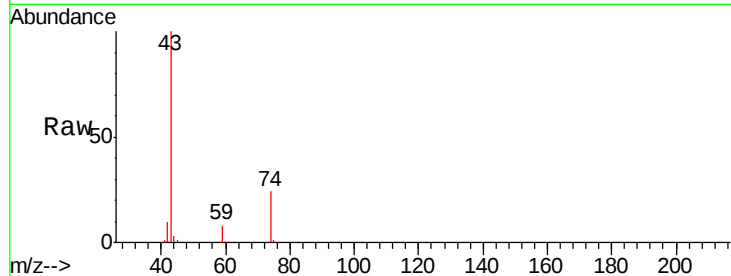




#18  
Methyl Acetate  
Concen: 102.799 ug/l  
RT: 4.32 min Scan# 793  
Delta R.T. 0.00 min  
Lab File: VN053202.D  
Acq: 27 Dec 2018 10:36

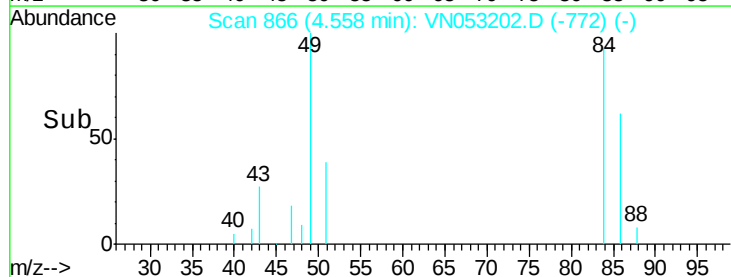
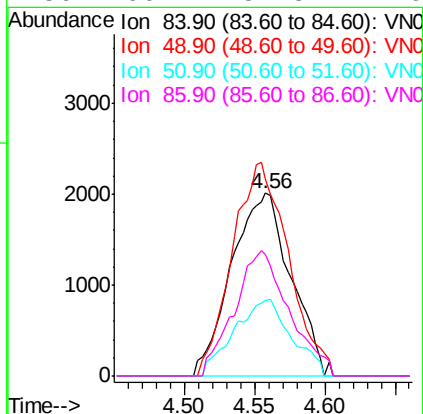
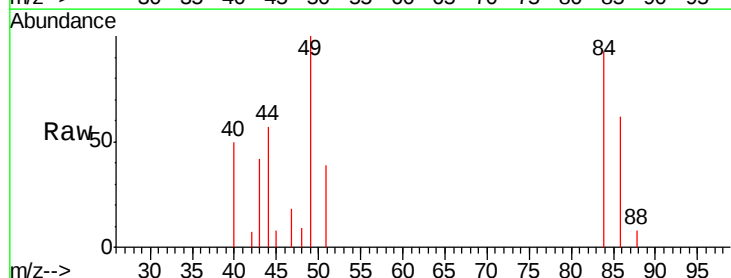
Instrument :  
MSVOA\_N  
ClientSampled :  
50081

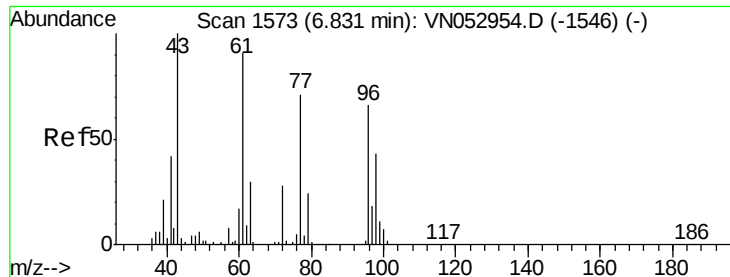
Tgt Ion: 43 Resp: 1101976  
Ion Ratio Lower Upper  
43 100  
74 24.0 19.2 28.8



#20  
Methylene Chloride  
Concen: 0.464 ug/l  
RT: 4.56 min Scan# 866  
Delta R.T. 0.00 min  
Lab File: VN053202.D  
Acq: 27 Dec 2018 10:36

Tgt Ion: 84 Resp: 5915  
Ion Ratio Lower Upper  
84 100  
49 107.7 96.8 145.2  
51 41.5 29.9 44.9  
86 66.7 51.8 77.6





#25

2-Butanone

Concen: 6.803 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VN053202.D

Acq: 27 Dec 2018 10:36

Instrument :

MSVOA\_N

ClientSampled :

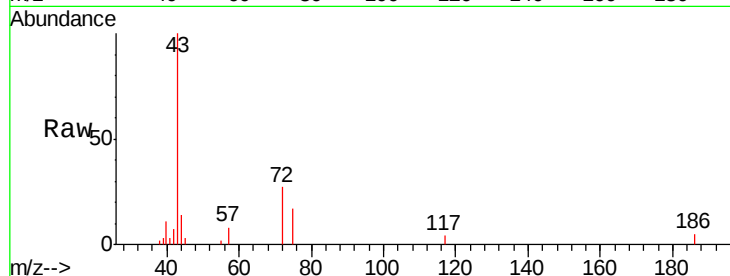
50081

Tgt Ion: 43 Resp: 26687

Ion Ratio Lower Upper

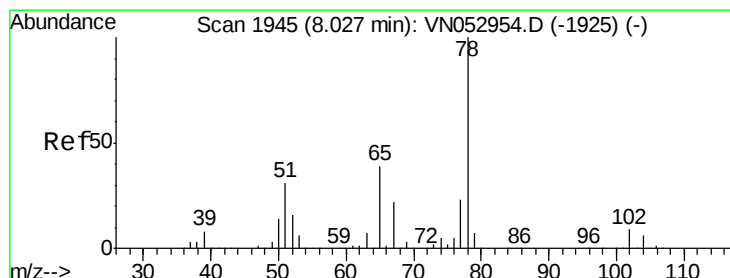
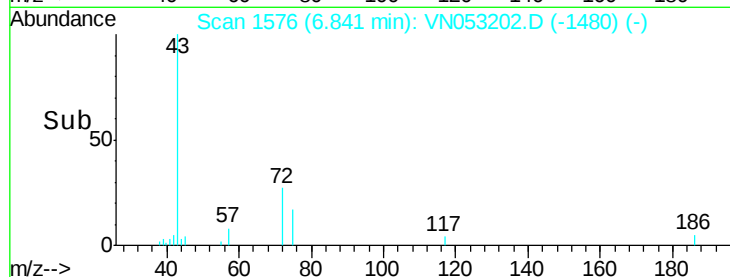
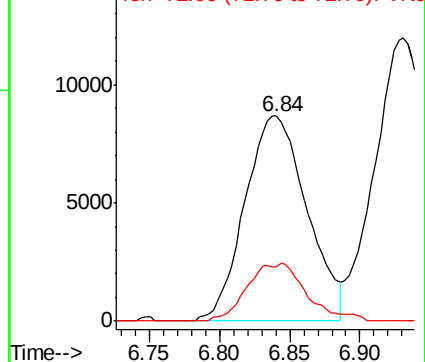
43 100

72 26.7 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053202.D

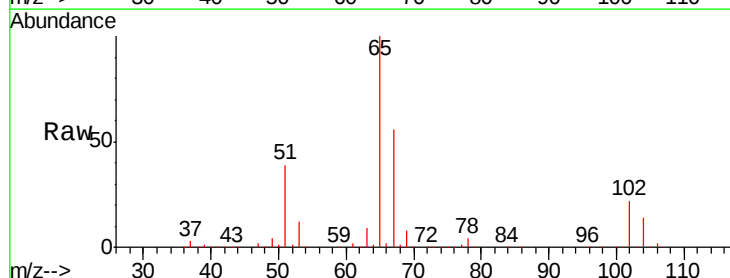
Acq: 27 Dec 2018 10:36

Tgt Ion: 65 Resp: 582365

Ion Ratio Lower Upper

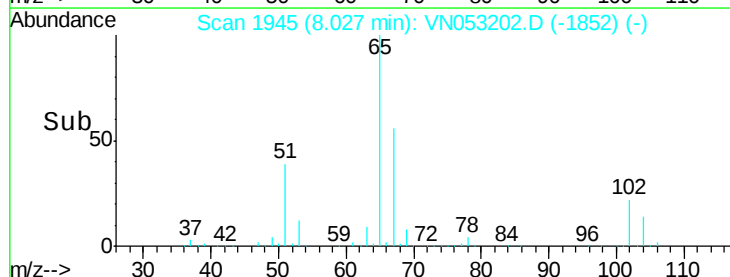
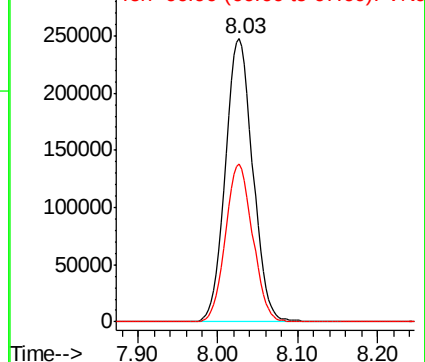
65 100

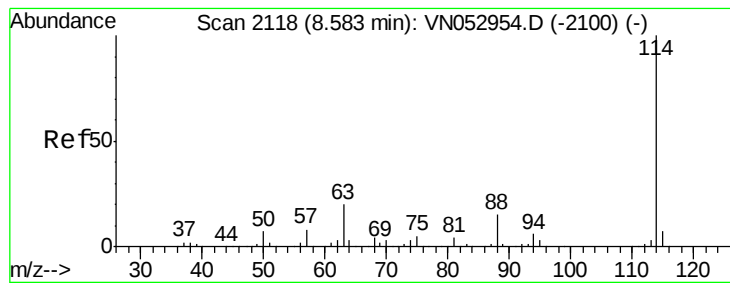
67 55.3 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053202.D

Acq: 27 Dec 2018 10:36

Instrument :

MSVOA\_N

ClientSampled :

50081

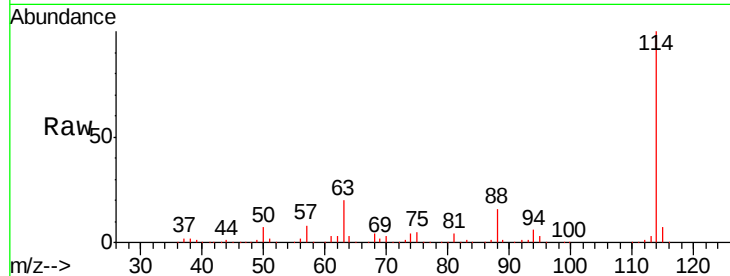
Tgt Ion:114 Resp: 1823498

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.8

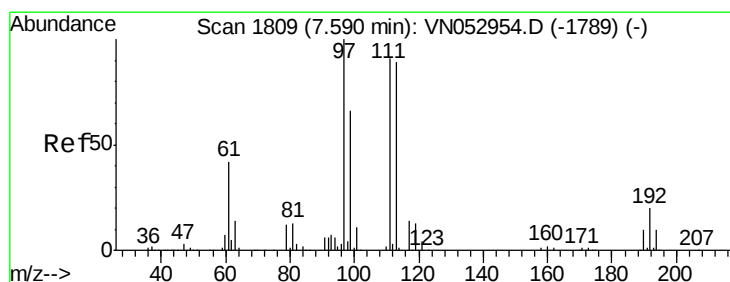
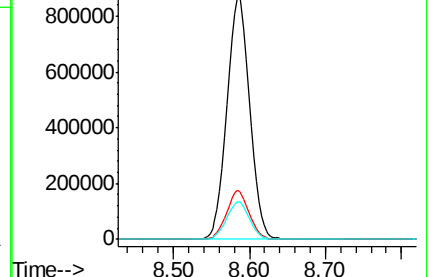
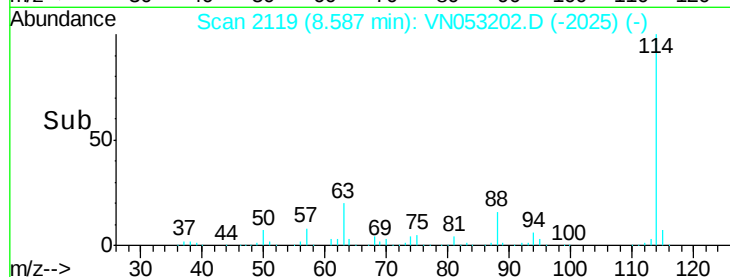
88 15.5 0.0 31.0



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: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN053202.D

Acq: 27 Dec 2018 10:36

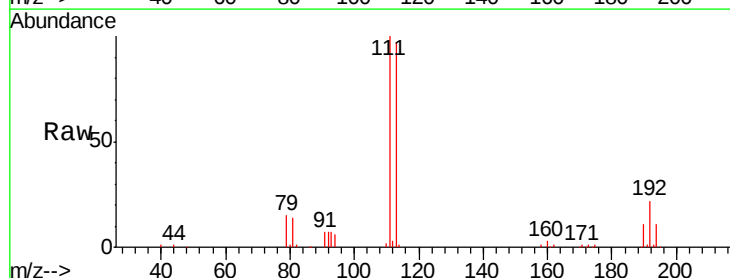
Tgt Ion:113 Resp: 508998

Ion Ratio Lower Upper

113 100

111 102.0 83.0 124.4

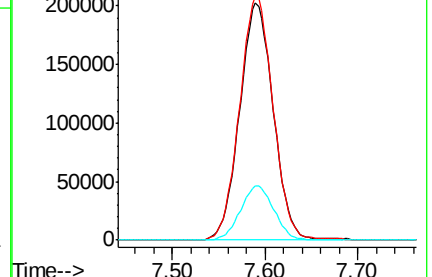
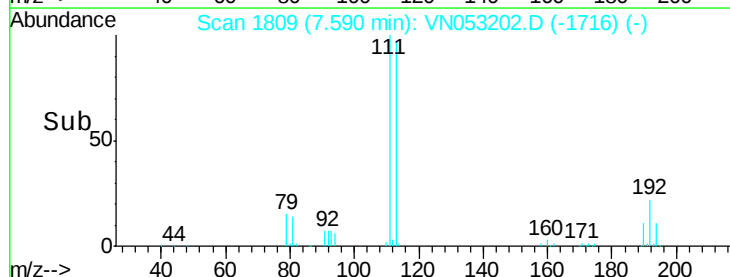
192 22.7 17.5 26.3

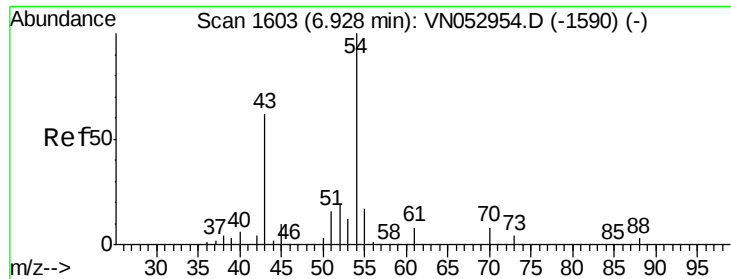


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

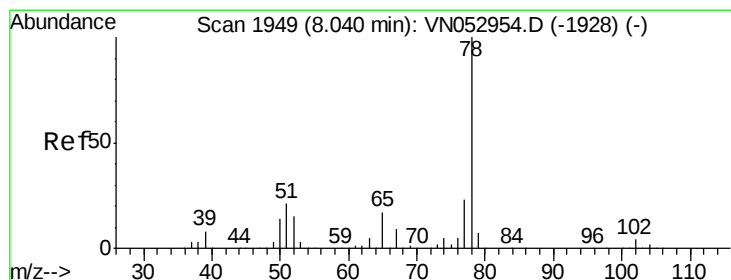
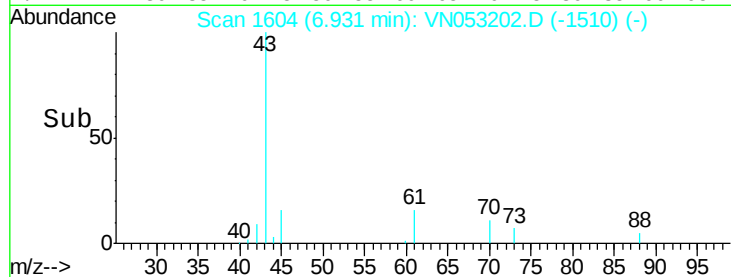
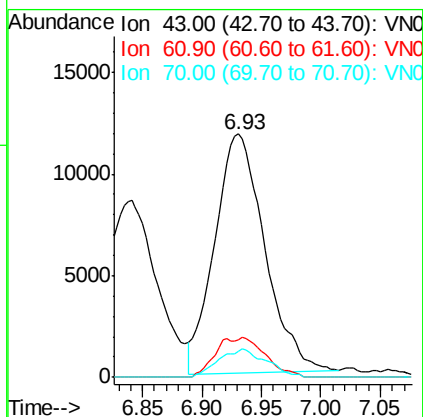
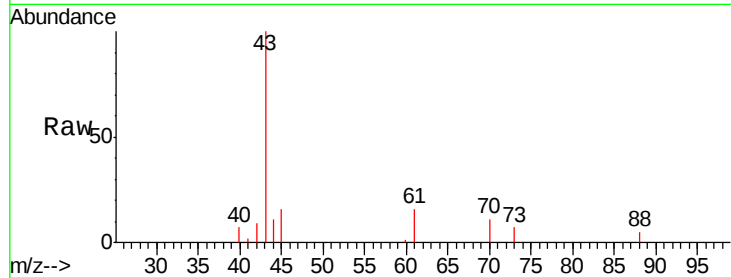




#37  
**Ethyl Acetate**  
 Concen: 3.496 ug/l  
 RT: 6.93 min Scan# 1604  
 Delta R.T. 0.00 min  
 Lab File: VN053202.D  
 Acq: 27 Dec 2018 10:36

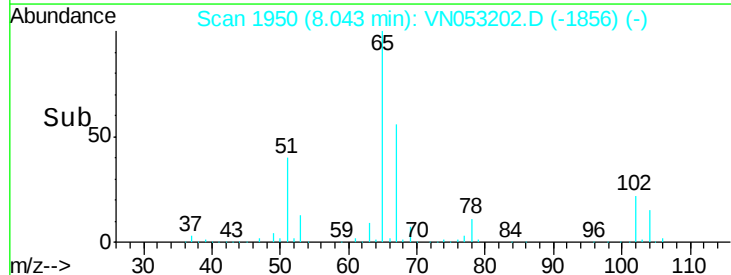
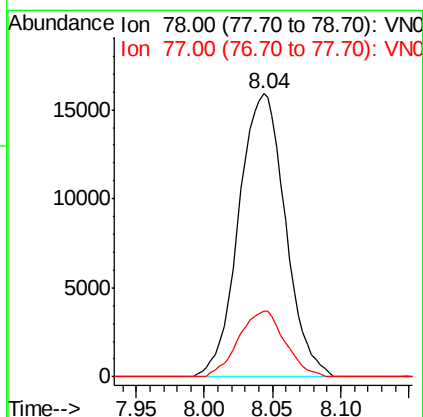
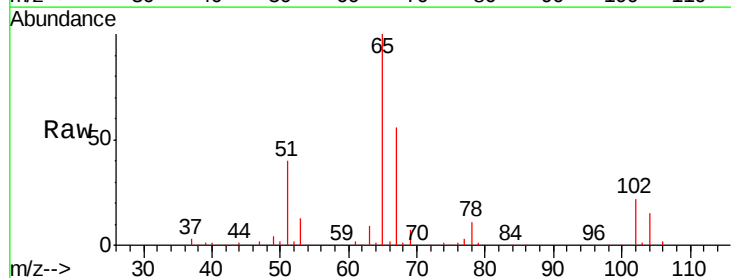
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 50081

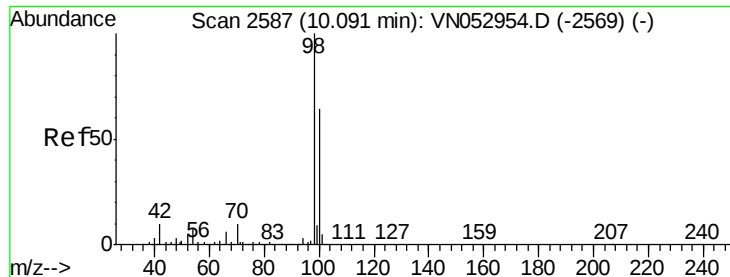
Tgt Ion: 43 Resp: 34161  
 Ion Ratio Lower Upper  
 43 100  
 61 7.0 11.8 17.6#  
 70 11.5 8.4 12.6



#40  
**Benzene**  
 Concen: 0.723 ug/l  
 RT: 8.04 min Scan# 1950  
 Delta R.T. 0.00 min  
 Lab File: VN053202.D  
 Acq: 27 Dec 2018 10:36

Tgt Ion: 78 Resp: 37623  
 Ion Ratio Lower Upper  
 78 100  
 77 23.0 18.5 27.7





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053202.D

Acq: 27 Dec 2018 10:36

Instrument :

MSVOA\_N

ClientSampled :

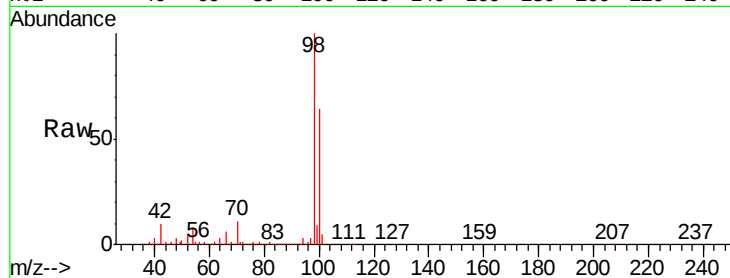
50081

Tgt Ion: 98 Resp: 2247356

Ion Ratio Lower Upper

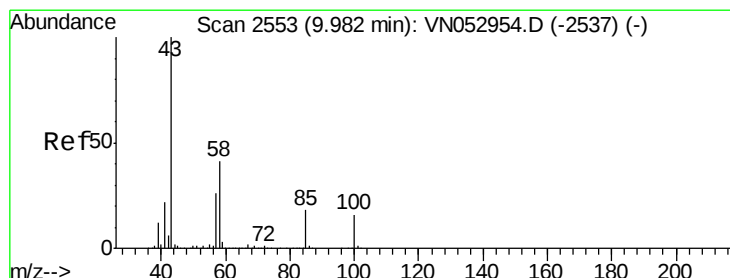
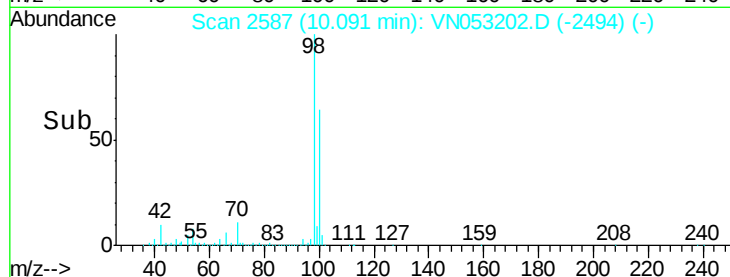
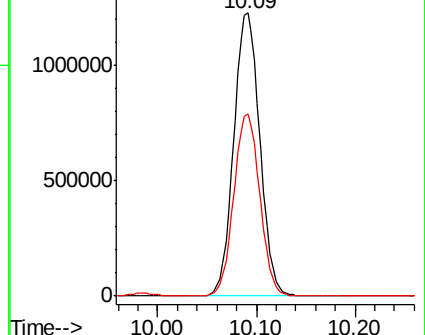
98 100

100 64.3 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN053202.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN053202.D (-2494) (-)



#51

4-Methyl-2-Pentanone

Concen: 15.612 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053202.D

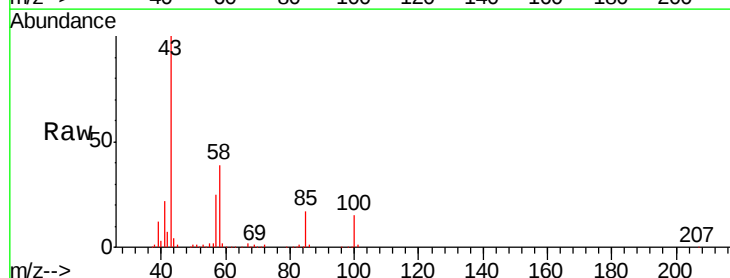
Acq: 27 Dec 2018 10:36

Tgt Ion: 43 Resp: 147720

Ion Ratio Lower Upper

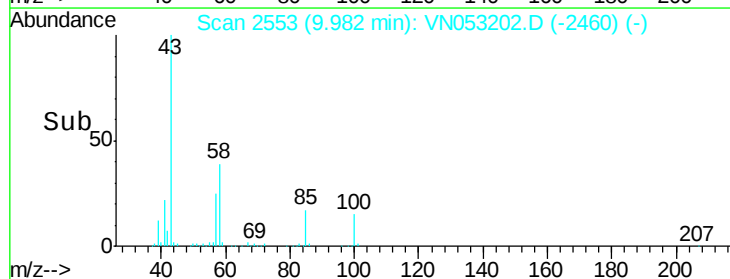
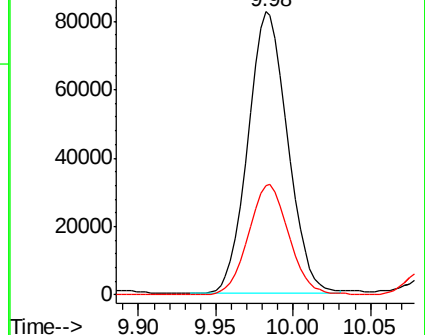
43 100

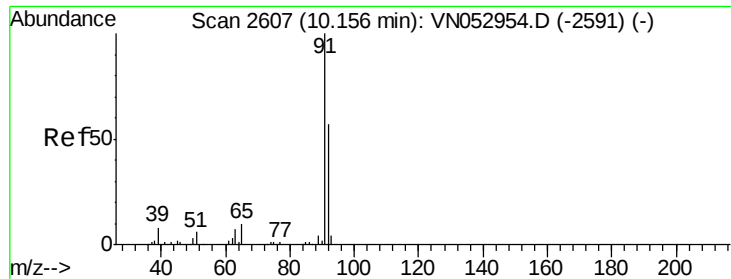
58 40.1 32.2 48.4



Abundance Ion 43.00 (42.70 to 43.70): VN053202.D (-2460) (-)

Ion 58.00 (57.70 to 58.70): VN053202.D (-2460) (-)





#52

Toluene

Concen: 15.884 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053202.D

Acq: 27 Dec 2018 10:36

Instrument :

MSVOA\_N

ClientSampled :

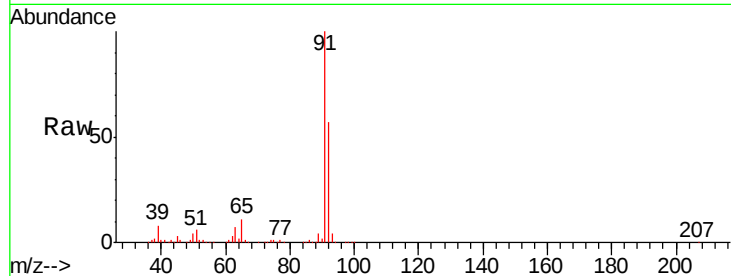
50081

Tgt Ion: 92 Resp: 512549

Ion Ratio Lower Upper

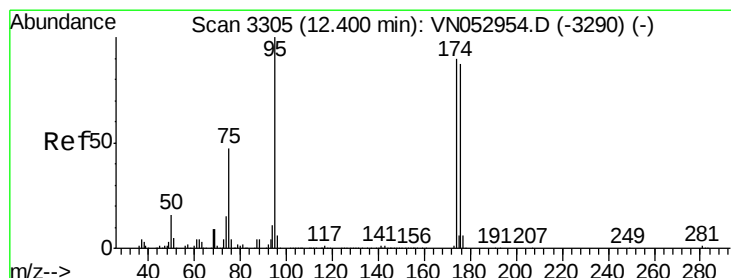
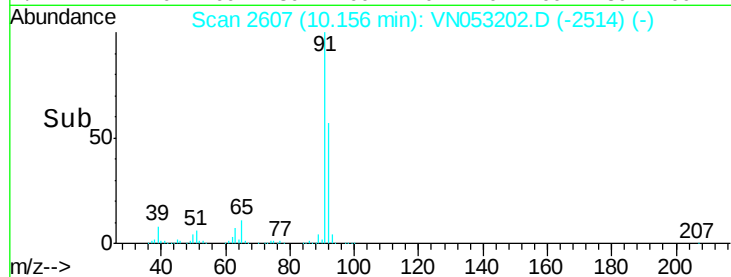
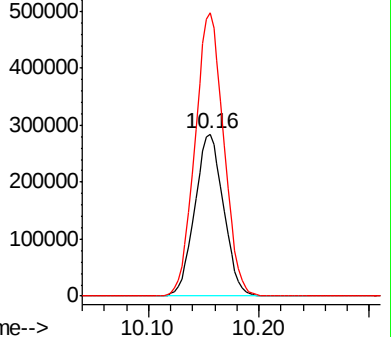
92 100

91 175.0 139.8 209.6



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: VN053202.D

Acq: 27 Dec 2018 10:36

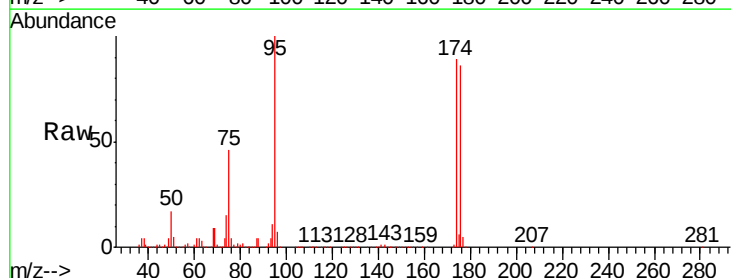
Tgt Ion: 95 Resp: 770703

Ion Ratio Lower Upper

95 100

174 89.9 0.0 178.8

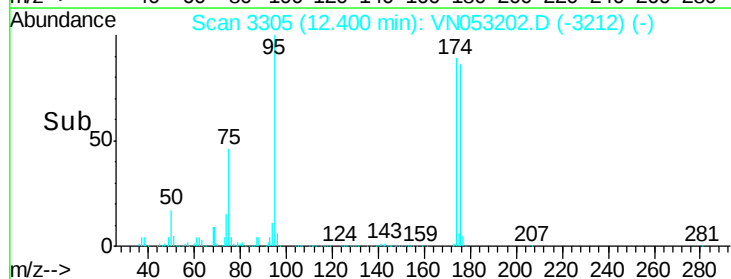
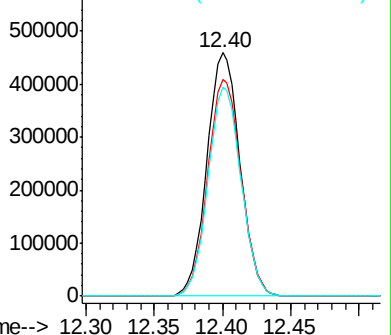
176 85.9 0.0 173.8

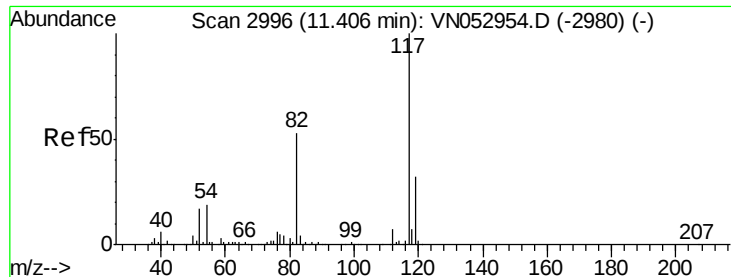


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

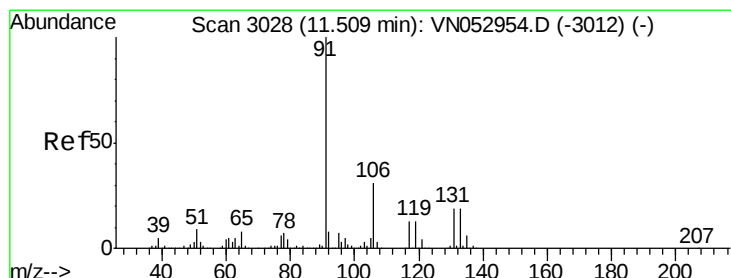
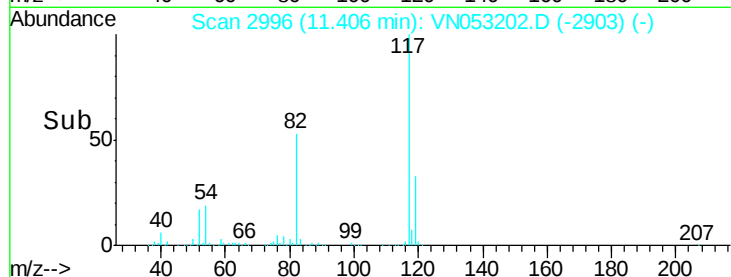
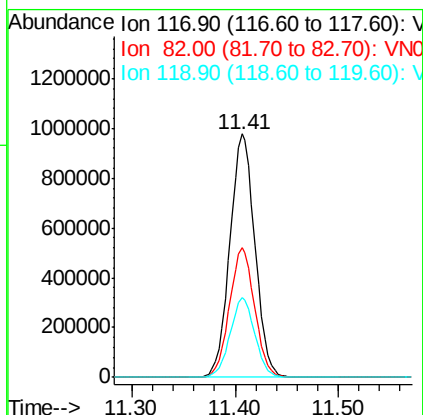
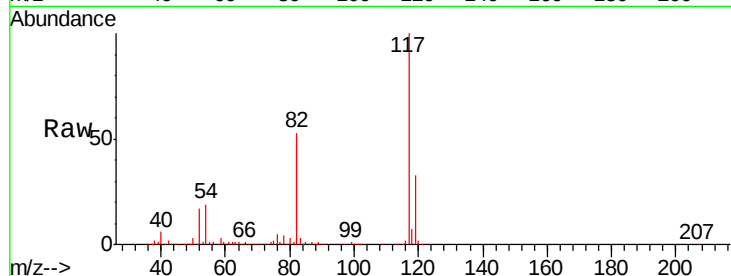




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN053202.D  
Acq: 27 Dec 2018 10:36

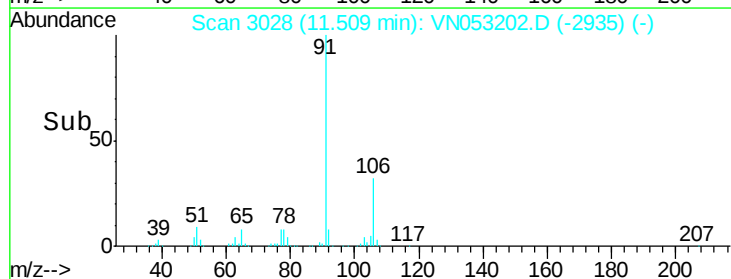
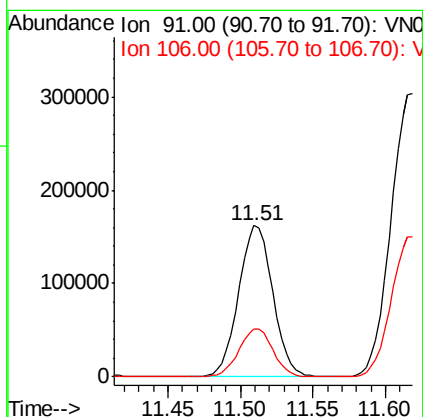
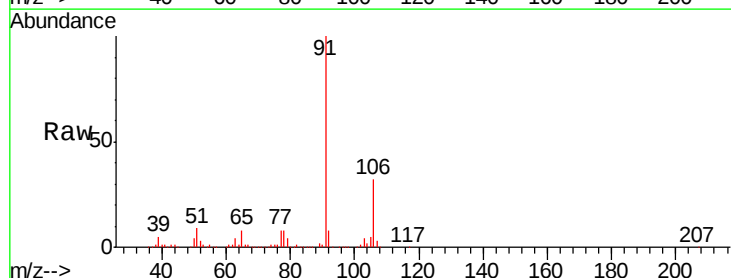
Instrument :  
MSVOA\_N  
ClientSampled :  
50081

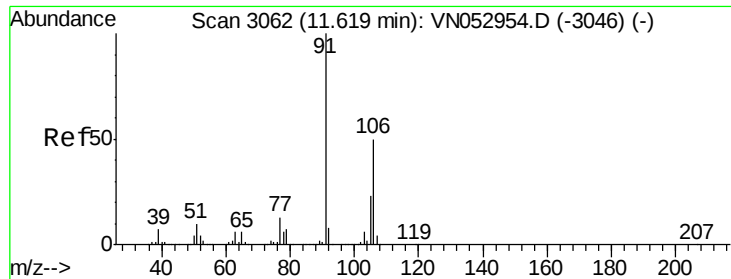
Tgt Ion: 117 Resp: 1653326  
Ion Ratio Lower Upper  
117 100  
82 53.2 42.8 64.2  
119 32.6 25.5 38.3



#67  
Ethyl Benzene  
Concen: 4.235 ug/l  
RT: 11.51 min Scan# 3028  
Delta R.T. -0.00 min  
Lab File: VN053202.D  
Acq: 27 Dec 2018 10:36

Tgt Ion: 91 Resp: 266906  
Ion Ratio Lower Upper  
91 100  
106 31.5 24.9 37.3

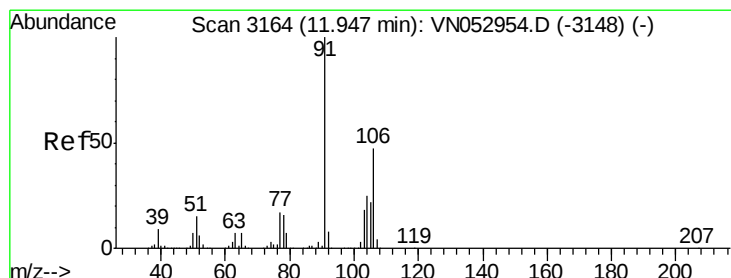
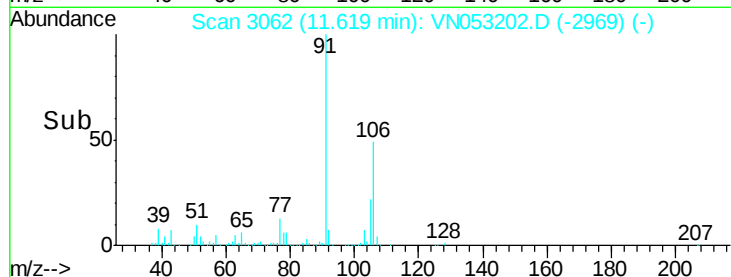
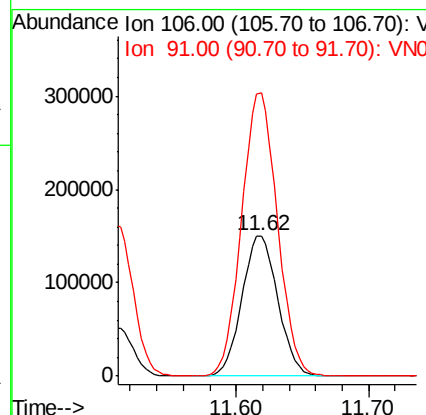
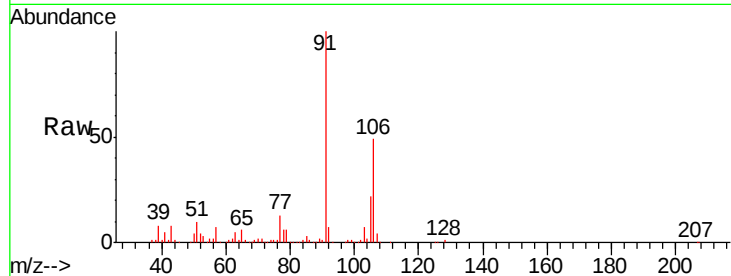




#68  
m/p-Xylenes  
Concen: 11.752 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN053202.D  
Acq: 27 Dec 2018 10:36

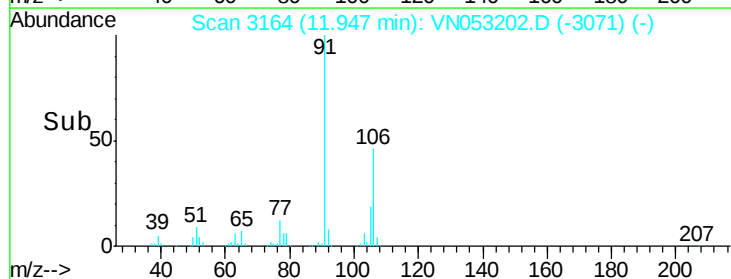
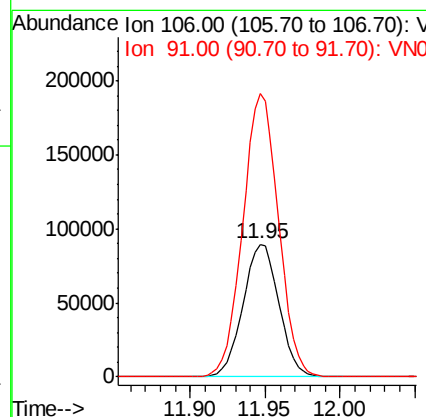
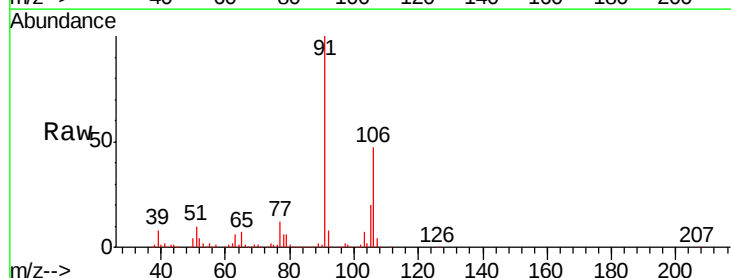
Instrument :  
MSVOA\_N  
ClientSampled :  
50081

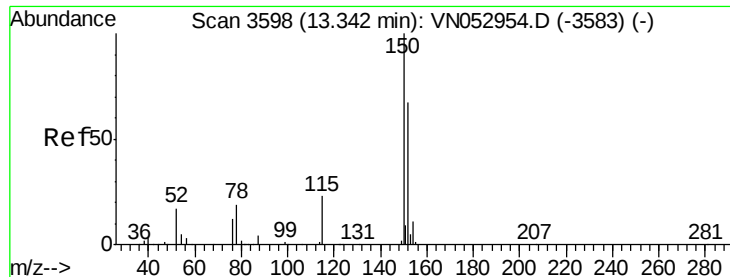
Tgt Ion:106 Resp: 281587  
Ion Ratio Lower Upper  
106 100  
91 201.6 162.2 243.4



#69  
o-Xylene  
Concen: 6.502 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. -0.00 min  
Lab File: VN053202.D  
Acq: 27 Dec 2018 10:36

Tgt Ion:106 Resp: 149483  
Ion Ratio Lower Upper  
106 100  
91 212.3 106.6 319.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053202.D

Acq: 27 Dec 2018 10:36

Instrument :

MSVOA\_N

ClientSampleId :

50081

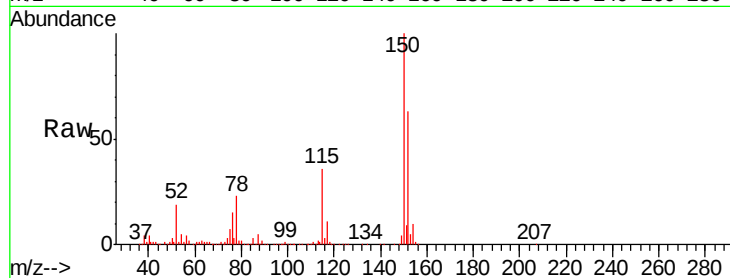
Tgt Ion:152 Resp: 712857

Ion Ratio Lower Upper

152 100

115 57.4 28.3 85.0

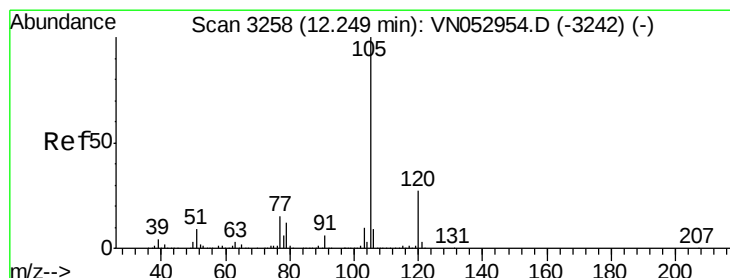
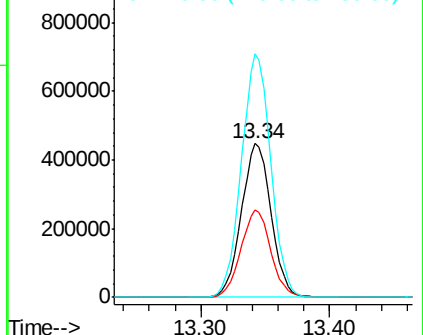
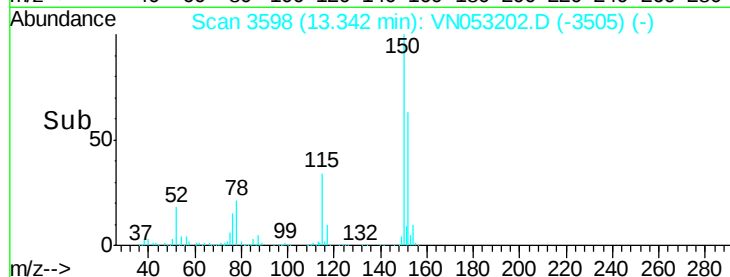
150 157.4 0.0 347.8



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



#73

Isopropylbenzene

Concen: 0.510 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN053202.D

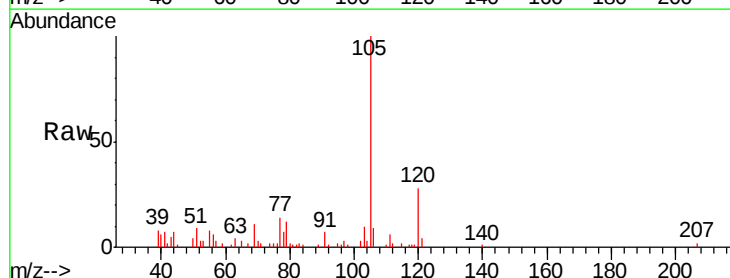
Acq: 27 Dec 2018 10:36

Tgt Ion:105 Resp: 28464

Ion Ratio Lower Upper

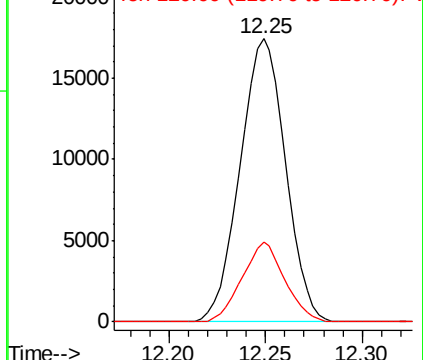
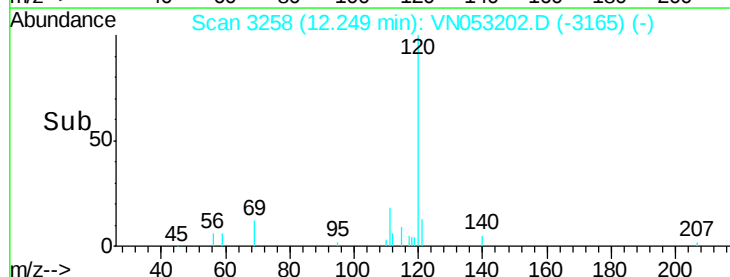
105 100

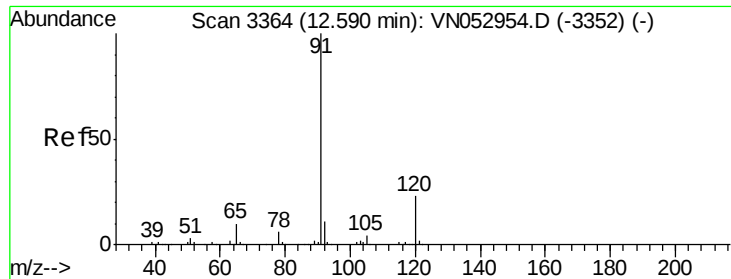
120 26.4 13.3 39.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 1.391 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN053202.D

Acq: 27 Dec 2018 10:36

Instrument :

MSVOA\_N

ClientSampled :

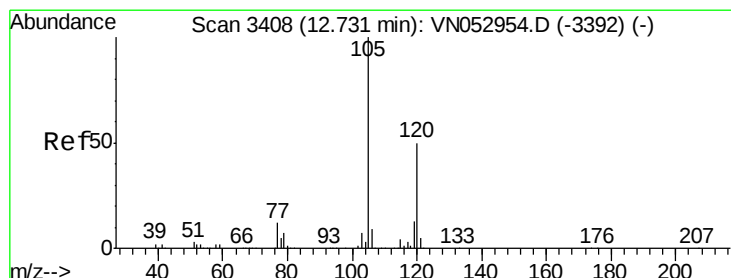
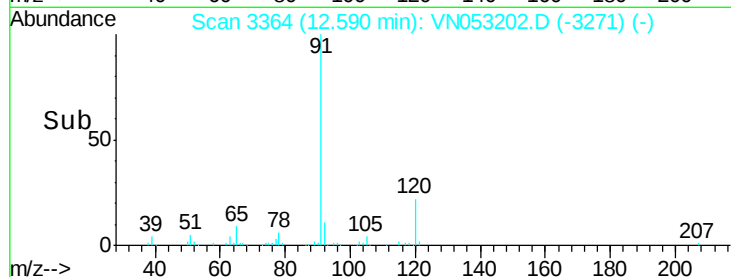
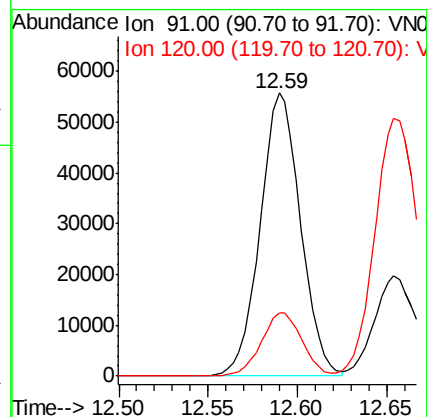
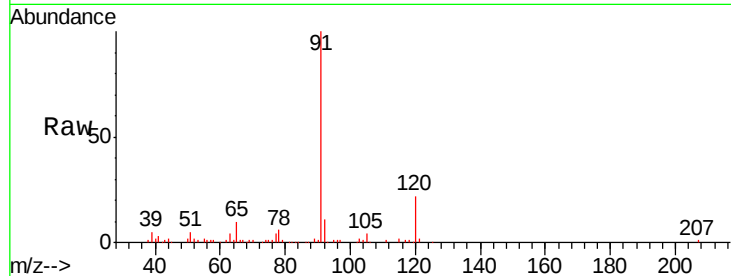
50081

Tgt Ion: 91 Resp: 88340

Ion Ratio Lower Upper

91 100

120 22.5 11.5 34.5



#80

1,3,5-Trimethylbenzene

Concen: 2.230 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN053202.D

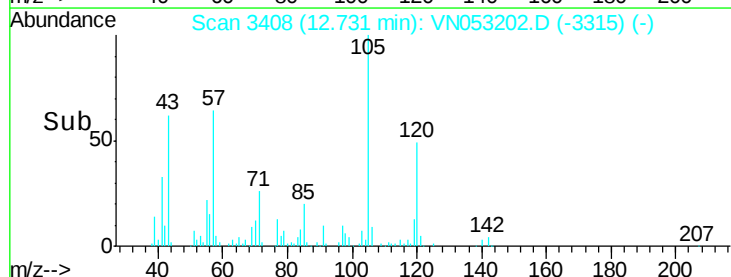
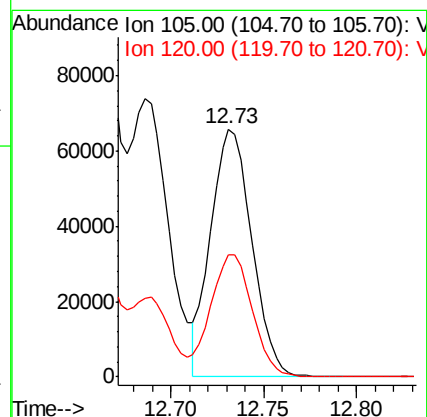
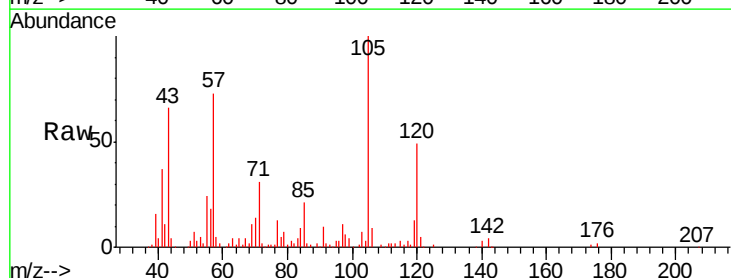
Acq: 27 Dec 2018 10:36

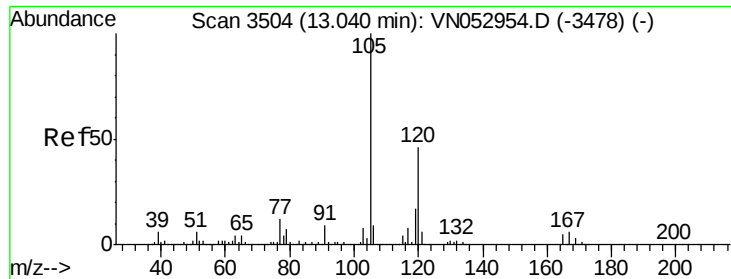
Tgt Ion: 105 Resp: 101388

Ion Ratio Lower Upper

105 100

120 50.1 24.4 73.2

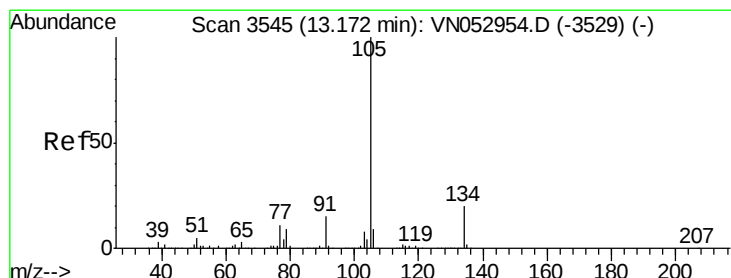
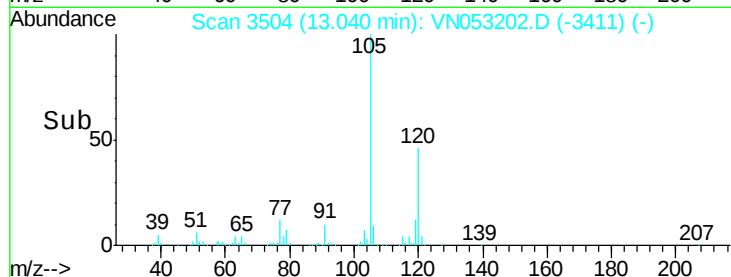
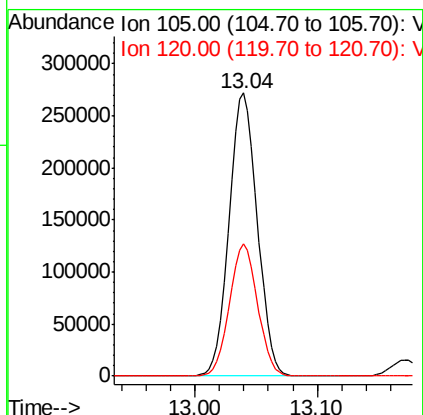
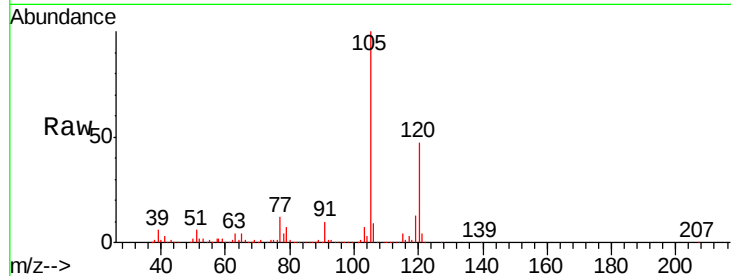




#84  
 1,2,4-Trimethylbenzene  
 Concen: 9.587 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. -0.00 min  
 Lab File: VN053202.D  
 Acq: 27 Dec 2018 10:36

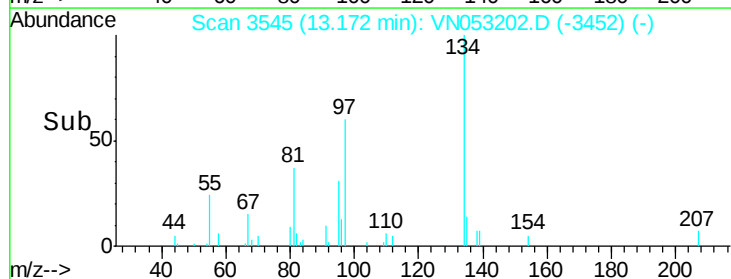
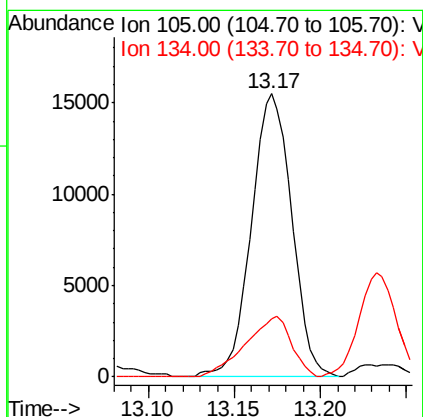
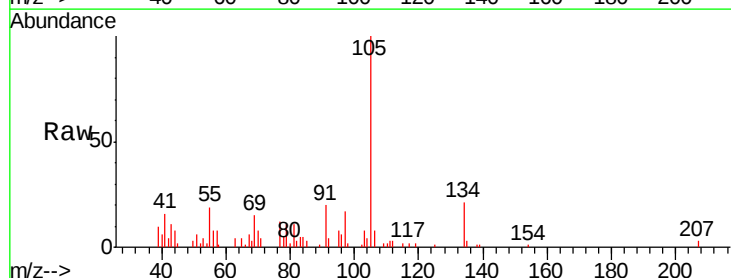
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 50081

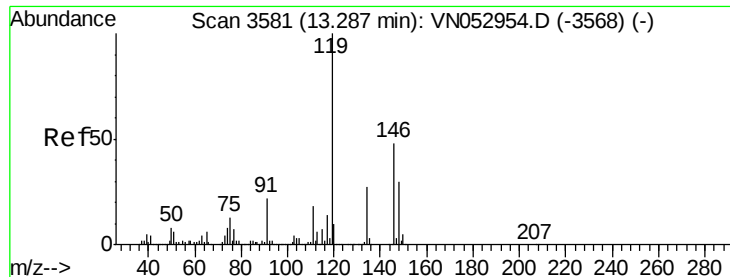
Tgt Ion:105 Resp: 438151  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 22.9 68.8



#85  
 sec-Butylbenzene  
 Concen: 0.464 ug/l  
 RT: 13.17 min Scan# 3545  
 Delta R.T. -0.00 min  
 Lab File: VN053202.D  
 Acq: 27 Dec 2018 10:36

Tgt Ion:105 Resp: 25247  
 Ion Ratio Lower Upper  
 105 100  
 134 24.3 10.1 30.3

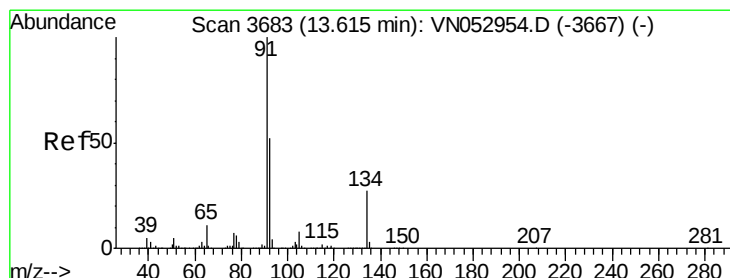
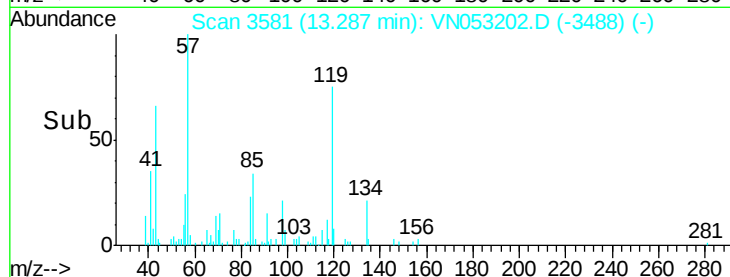
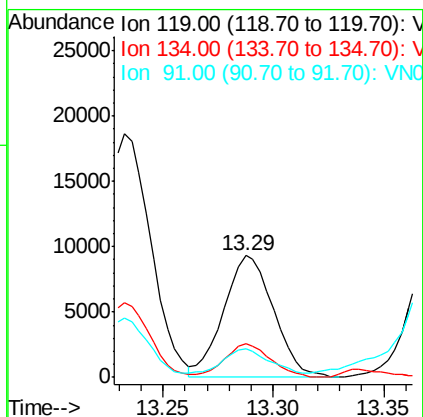
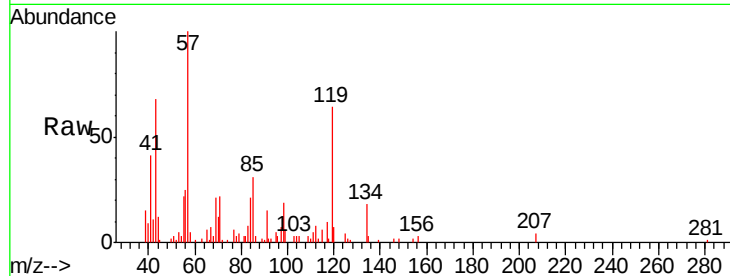




#86  
p-Isopropyltoluene  
Concen: 0.312 ug/l  
RT: 13.29 min Scan# 3581  
Delta R.T. -0.00 min  
Lab File: VN053202.D  
Acq: 27 Dec 2018 10:36

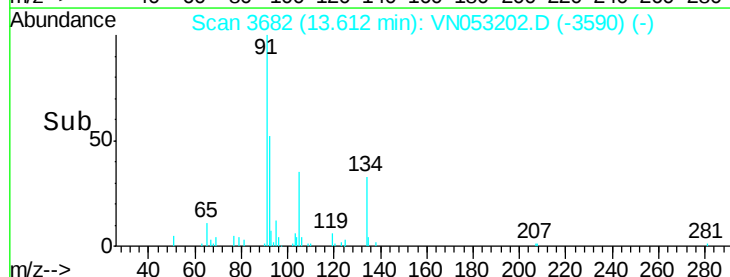
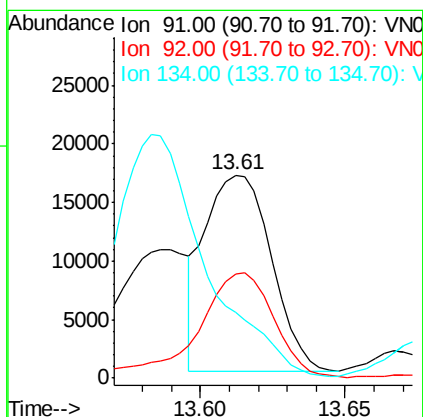
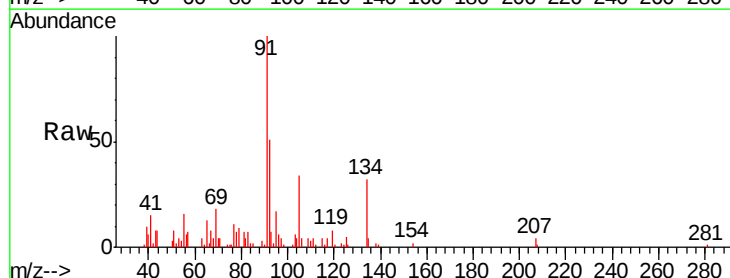
Instrument :  
MSVOA\_N  
ClientSampleId :  
50081

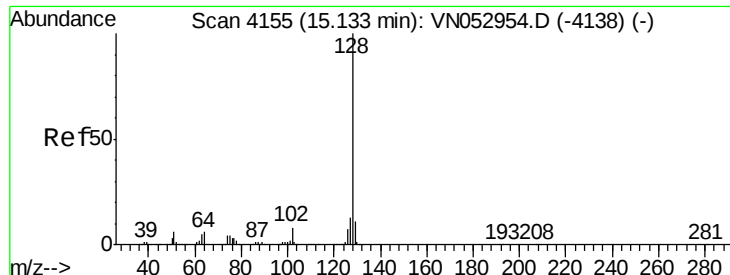
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.1  | 13.4  | 40.2  |
| 91      | 17.1  | 11.1  | 33.3  |



#89  
n-Butylbenzene  
Concen: 0.657 ug/l  
RT: 13.61 min Scan# 3682  
Delta R.T. -0.00 min  
Lab File: VN053202.D  
Acq: 27 Dec 2018 10:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 62.0  | 26.3  | 78.9  |
| 134     | 0.0   | 13.3  | 39.8# |





#95

Naphthalene

Concen: 4.373 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN053202.D

Acq: 27 Dec 2018 10:36

Instrument :

MSVOA\_N

ClientSampleId :

50081

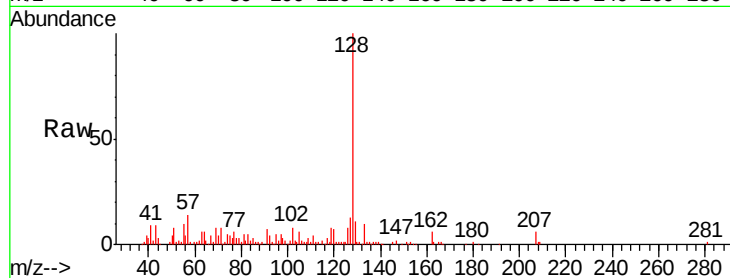
Tgt Ion:128 Resp: 92562

Ion Ratio Lower Upper

128 100

127 15.2 10.2 15.4

129 12.1 8.6 13.0



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

