

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121318\  
 Data File : VN052858.D  
 Acq On : 13 Dec 2018 12:27  
 Operator : MD\SY  
 Sample : J6319-02  
 Misc : 5.16g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 8 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 056\_BT-1-2

Quant Time: Dec 14 01:36:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 13 01:08:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 1149137  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1721502  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1499909  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 792901   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.02  | 65   | 549441   | 44.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.94%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 442862   | 46.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.18%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 2770773  | 66.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 133.00% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 938406   | 66.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 132.94% |          |

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 13) Acrolein                  | 3.60  | 56   | 152      | 0.236   | ug/l # | 14     |
| 14) Allyl chloride            | 4.59  | 41   | 295658   | 17.133  | ug/l # | 57     |
| 15) Acrylonitrile             | 5.05  | 53   | 19705    | 5.145   | ug/l # | 39     |
| 16) Acetone                   | 3.79  | 43   | 11765    | 4.287   | ug/l # | 43     |
| 18) Methyl Acetate            | 4.58  | 43   | 734314   | 72.912  | ug/l # | 51     |
| 23) Vinyl Acetate             | 5.92  | 43   | 7363     | 0.336   | ug/l # | 73     |
| 25) 2-Butanone                | 6.82  | 43   | 21413    | 5.029   | ug/l # | 49     |
| 29) Tetrahydrofuran           | 7.22  | 42   | 6380     | 2.195   | ug/l # | 41     |
| 30) Chloroform                | 7.32  | 83   | 198845   | 9.605   | ug/l # | 18     |
| 31) Cyclohexane               | 7.64  | 56   | 1682473  | 81.625  | ug/l # | 77     |
| 36) 1,1-Dichloropropene       | 7.66  | 75   | 78107    | 4.927   | ug/l # | 68     |
| 37) Ethyl Acetate             | 6.82  | 43   | 21413    | 2.248   | ug/l # | 68     |
| 38) Carbon Tetrachloride      | 7.66  | 117  | 98959    | 6.782   | ug/l # | 15     |
| 39) Methylcyclohexane         | 9.08  | 83   | 9617750  | 494.384 | ug/l   | 98     |
| 40) Benzene                   | 8.04  | 78   | 79972    | 1.681   | ug/l   | 94     |
| 41) Methacrylonitrile         | 7.21  | 41   | 40055    | 7.591   | ug/l # | 45     |
| 43) Isopropyl Acetate         | 8.15  | 43   | 479684   | 24.567  | ug/l # | 53     |
| 45) 1,2-Dichloropropane       | 9.15  | 63   | 2921     | 0.234   | ug/l # | 1      |
| 47) Bromodichloromethane      | 9.39  | 83   | 833980   | 55.645  | ug/l # | 25     |
| 48) Methyl methacrylate       | 9.14  | 41   | 387062   | 45.203  | ug/l # | 29     |
| 51) 4-Methyl-2-Pentanone      | 10.02 | 43   | 339640   | 37.935  | ug/l # | 50     |
| 52) Toluene                   | 10.16 | 92   | 20760    | 0.720   | ug/l # | 67     |
| 55) 1,1,2-Trichloroethane     | 10.53 | 97   | 2207784  | 214.621 | ug/l # | 18     |
| 56) Ethyl methacrylate        | 10.43 | 69   | 723774   | 54.825  | ug/l # | 15     |
| 58) 2-Chloroethyl Vinyl ether | 9.67  | 63   | 8032     | 1.090   | ug/l # | 49     |
| 59) 2-Hexanone                | 10.72 | 43   | 2839548  | 462.782 | ug/l # | 28     |
| 60) Dibromochloromethane      | 10.82 | 129  | 6431     | 0.578   | ug/l   | 72     |
| 61) 1,2-Dibromoethane         | 10.98 | 107  | 4990     | 0.491   | ug/l # | 1      |
| 65) Chlorobenzene             | 11.54 | 112  | 50352    | 1.618   | ug/l # | 43     |
| 67) Ethyl Benzene             | 11.51 | 91   | 57008    | 1.067   | ug/l # | 87     |
| 68) m/p-Xylenes               | 11.62 | 106  | 58205    | 2.901   | ug/l # | 57     |
| 69) o-Xylene                  | 11.95 | 106  | 11333    | 0.578   | ug/l # | 7      |
| 73) Isopropylbenzene          | 12.25 | 105  | 1592820  | 26.905  | ug/l   | 99     |
| 74) N-amyl acetate            | 12.04 | 43   | 1493048  | 91.863  | ug/l # | 53     |

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 Operator : MD\SY  
 Sample : J6319-02  
 Misc : 5.16g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 8 Sample Multiplier: 28

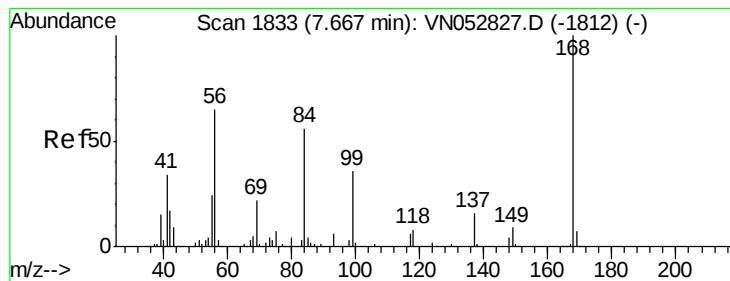
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 056\_BT-1-2

Quant Time: Dec 14 01:36:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 13 01:08:35 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 75) 1,1,2,2-Tetrachloroethane  | 12.56 | 83   | 355781   | 26.815 | ug/l # | 41       |
| 76) 1,2,3-Trichloropropane     | 12.59 | 75   | 19812    | 1.694  | ug/l # | 100      |
| 77) Bromobenzene               | 12.55 | 156  | 18874    | 1.253  | ug/l # | 1        |
| 78) n-propylbenzene            | 12.59 | 91   | 3597823  | 53.287 | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.59 | 91   | 3597823  | 90.136 | ug/l # | 40       |
| 80) 1,3,5-Trimethylbenzene     | 12.89 | 105  | 284397   | 5.951  | ug/l   | 72       |
| 81) trans-1,4-Dichloro-2-buten | 12.25 | 75   | 16037    | 4.404  | ug/l # | 1        |
| 82) 4-Chlorotoluene            | 12.59 | 91   | 3597823  | 88.158 | ug/l # | 40       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 72165    | 1.712  | ug/l   | 73       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 33943    | 0.702  | ug/l   | 94       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 878590   | 15.389 | ug/l # | 59       |
| 86) p-Isopropyltoluene         | 13.24 | 119  | 118645   | 2.399  | ug/l   | 95       |
| 89) n-Butylbenzene             | 13.62 | 91   | 1504201  | 36.124 | ug/l # | 80       |
| 90) Hexachloroethane           | 13.89 | 117  | 586564   | 70.819 | ug/l # | 4        |
| 92) 1,2-Dibromo-3-Chloropropan | 14.29 | 75   | 13650    | 6.825  | ug/l # | 1        |
| 95) Naphthalene                | 15.11 | 128  | 71274    | 2.460  | ug/l # | 38       |
| 96) 1,2,3-Trichlorobenzene     | 15.34 | 180  | 3291     | 0.256  | ug/l # | 12       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampled :

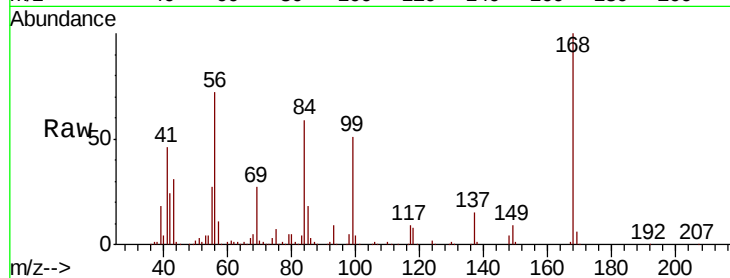
056\_BT-1-2

Tot Ion:168 Resp: 1149137

Ion Ratio Lower Upper

168 100

99 50.5 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052827.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052827.D (-1812) (-)

7.66

500000

400000

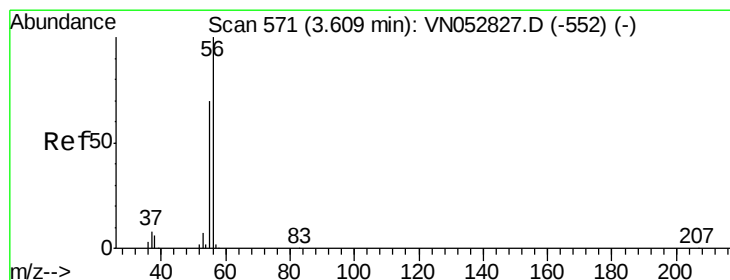
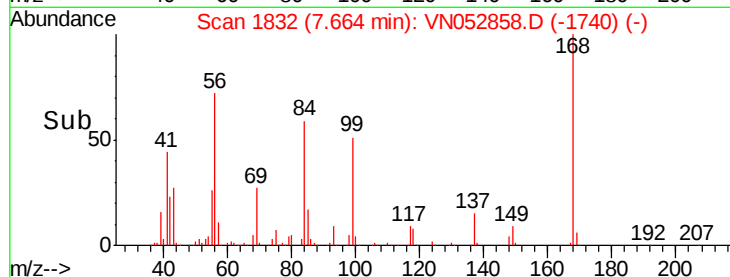
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.236 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN052858.D

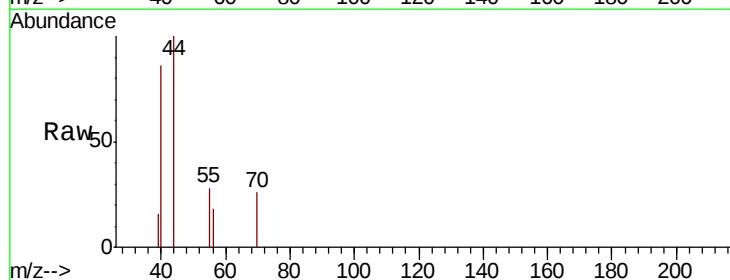
Acq: 13 Dec 2018 12:27

Tgt Ion: 56 Resp: 152

Ion Ratio Lower Upper

56 100

55 0.0 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN052827.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN052827.D (-552) (-)

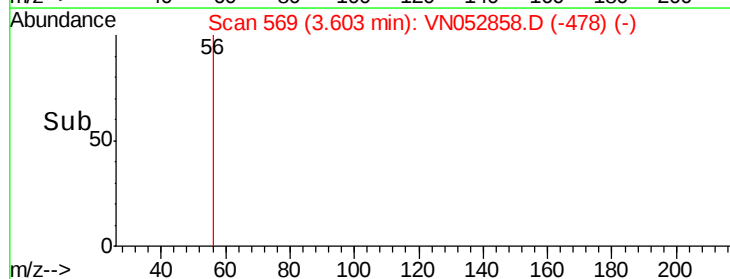
1500

1000

500

0

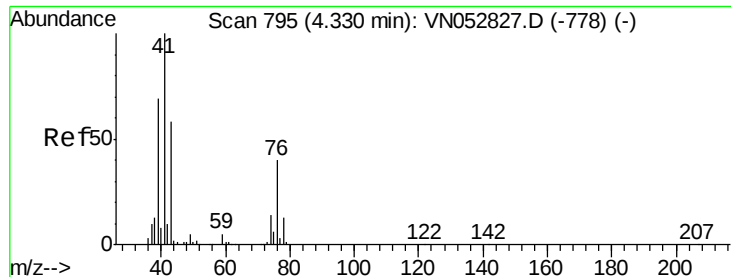
Time-->



3.60

0

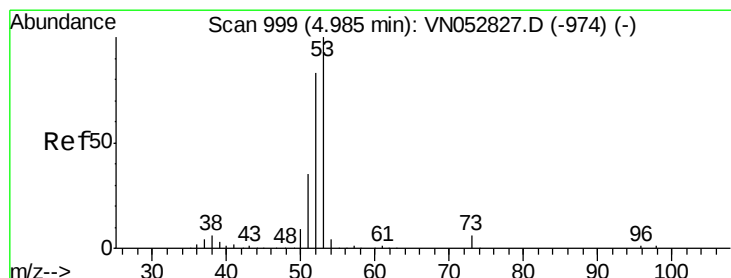
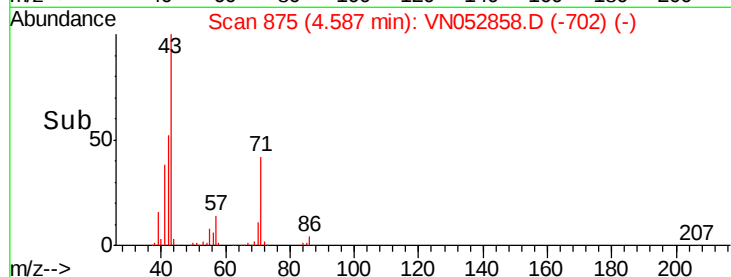
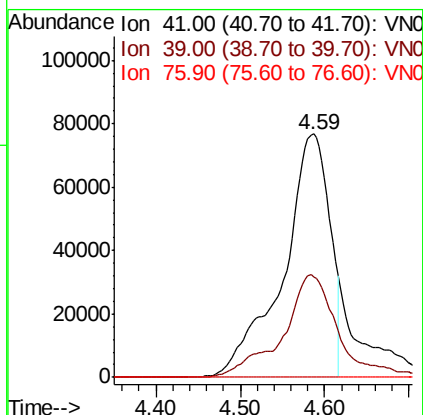
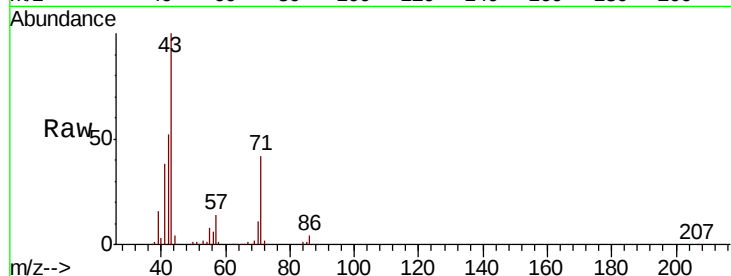
Time-->



#14  
Allvl chloride  
Concen: 17.133 ug/l  
RT: 4.59 min Scan# 875  
Delta R.T. 0.26 min  
Lab File: VN052858.D  
Acq: 13 Dec 2018 12:27

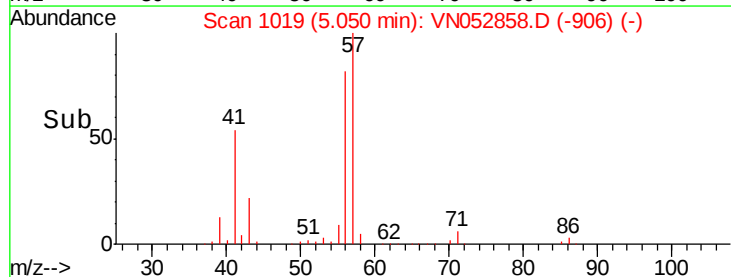
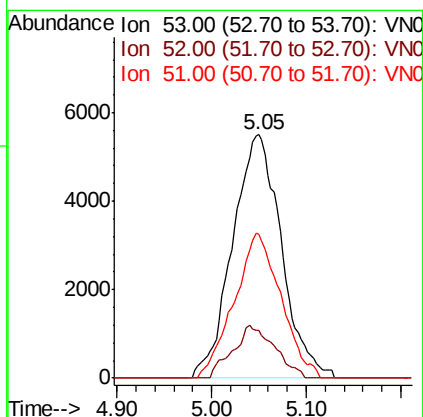
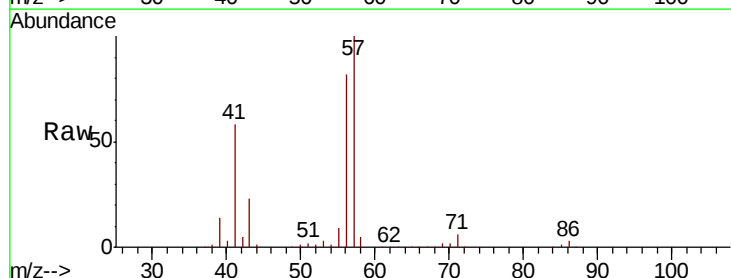
Instrument :  
MSVOA\_N  
ClientSampled :  
056\_BT-1-2

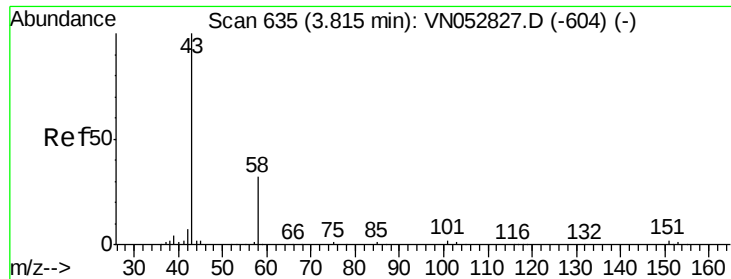
Tot Ion: 41 Resp: 295658  
Ion Ratio Lower Upper  
41 100  
39 41.4 54.1 81.1#  
76 0.0 30.3 45.5#



#15  
Acrylonitrile  
Concen: 5.145 ug/l  
RT: 5.05 min Scan# 1019  
Delta R.T. 0.06 min  
Lab File: VN052858.D  
Acq: 13 Dec 2018 12:27

Tgt Ion: 53 Resp: 19705  
Ion Ratio Lower Upper  
53 100  
52 18.5 65.1 97.7#  
51 57.0 28.1 42.1#





#16

Acetone

Concen: 4.287 ug/l

RT: 3.79 min Scan# 627

Delta R.T. -0.03 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampleId :

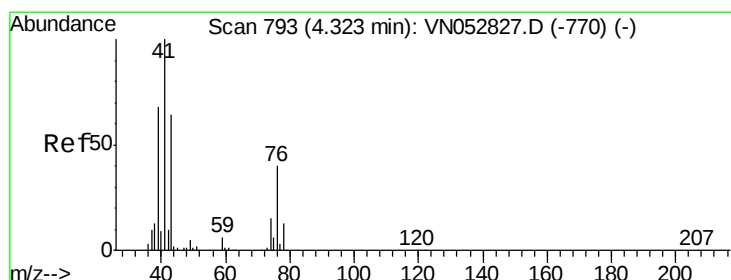
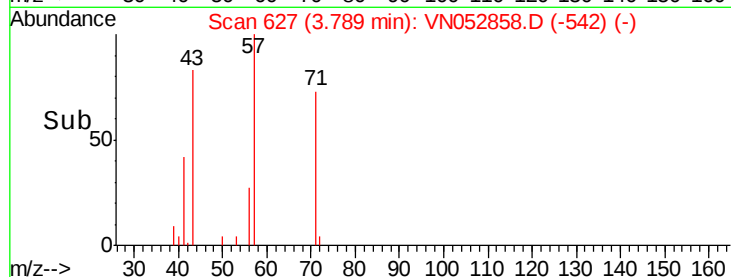
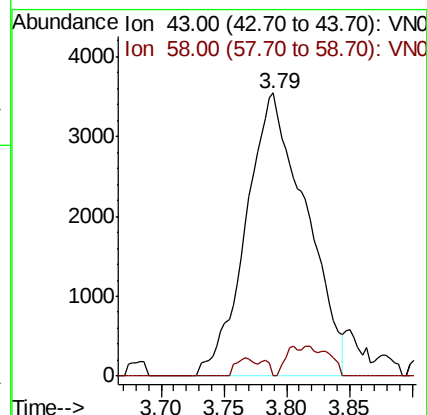
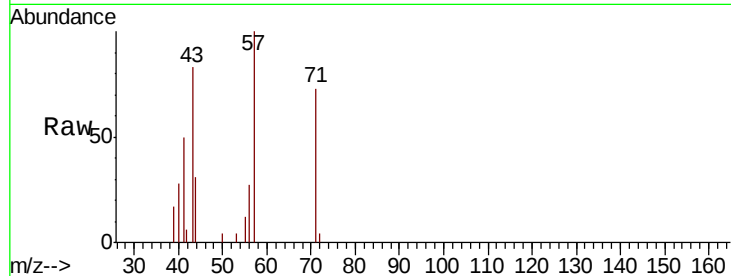
056\_BT-1-2

Tot Ion: 43 Resp: 11765

Ion Ratio Lower Upper

43 100

58 0.0 25.4 38.0#



#18

Methyl Acetate

Concen: 72.912 ug/l

RT: 4.58 min Scan# 874

Delta R.T. 0.26 min

Lab File: VN052858.D

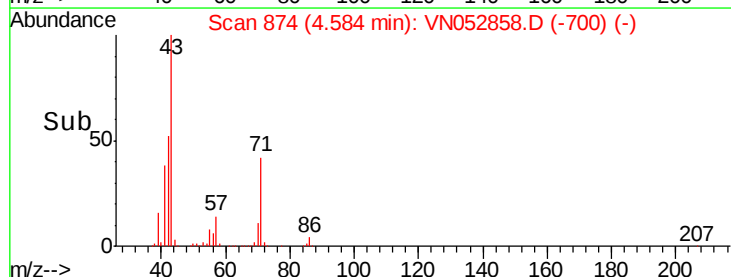
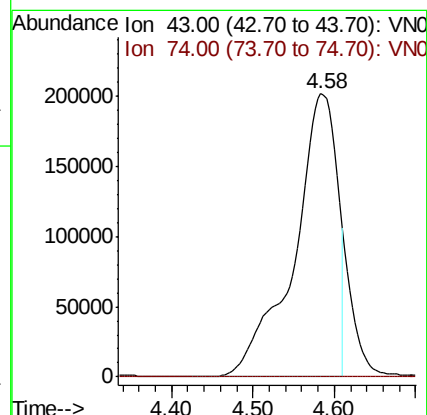
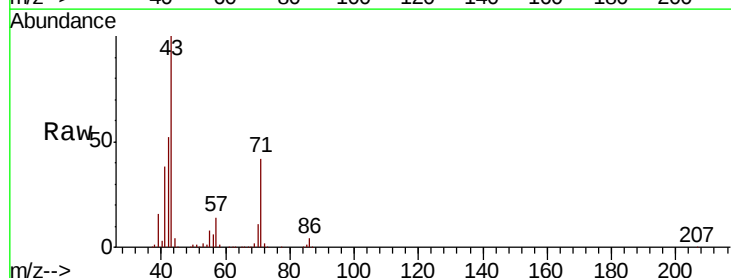
Acq: 13 Dec 2018 12:27

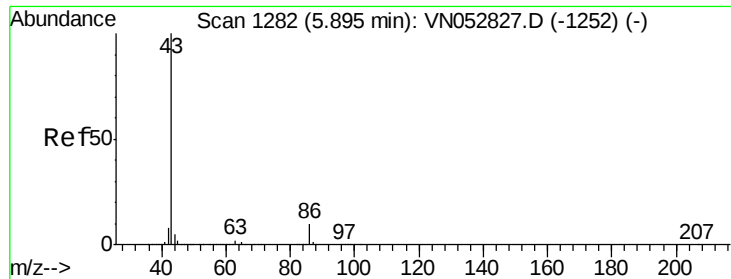
Tgt Ion: 43 Resp: 734314

Ion Ratio Lower Upper

43 100

74 0.0 19.2 28.8#





#23

Vinyl Acetate

Concen: 0.336 ug/l

RT: 5.92 min Scan# 1290

Delta R.T. 0.03 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampled :

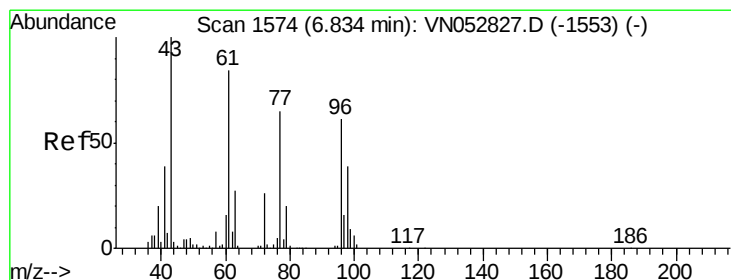
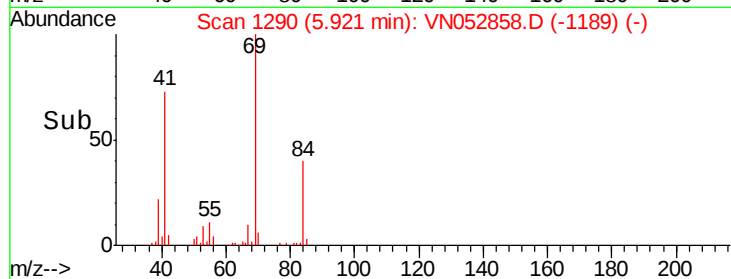
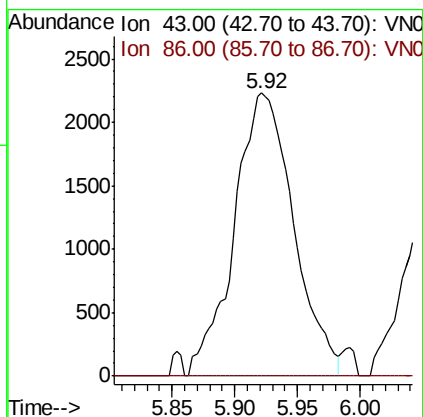
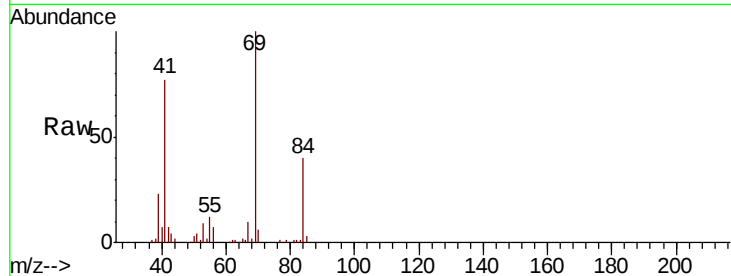
056\_BT-1-2

Tot Ion: 43 Resp: 7363

Ion Ratio Lower Upper

43 100

86 0.0 8.1 12.1#



#25

2-Butanone

Concen: 5.029 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VN052858.D

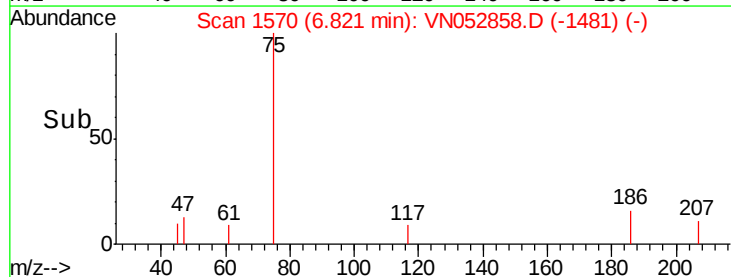
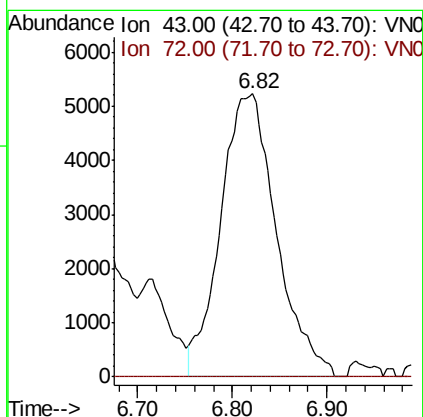
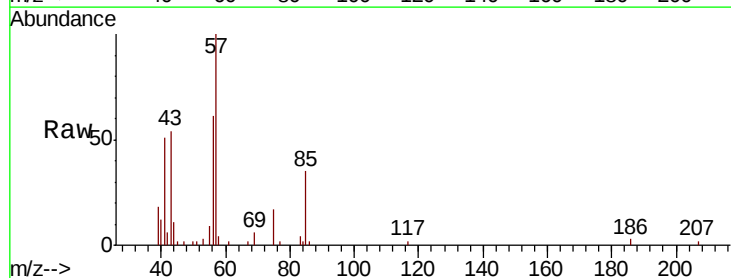
Acq: 13 Dec 2018 12:27

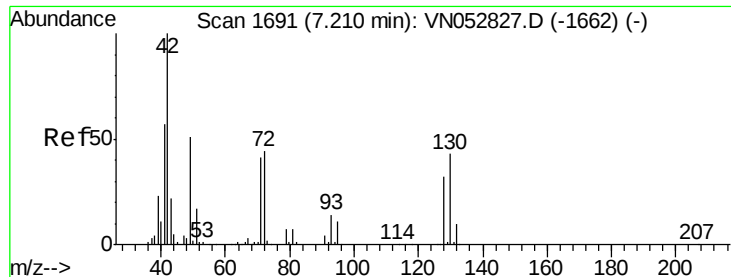
Tgt Ion: 43 Resp: 21413

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.6#

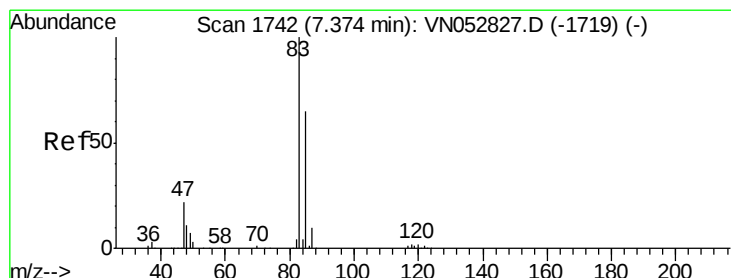
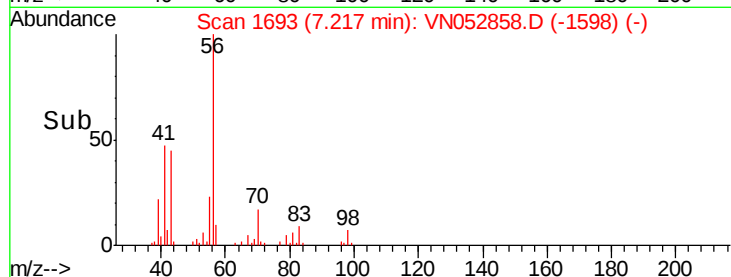
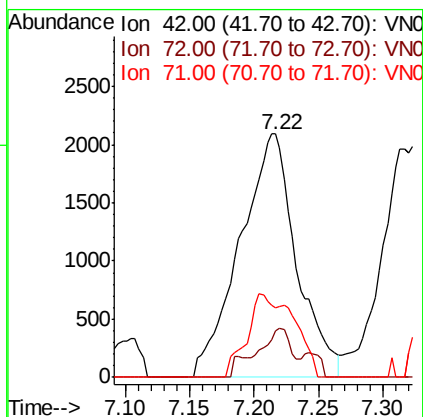
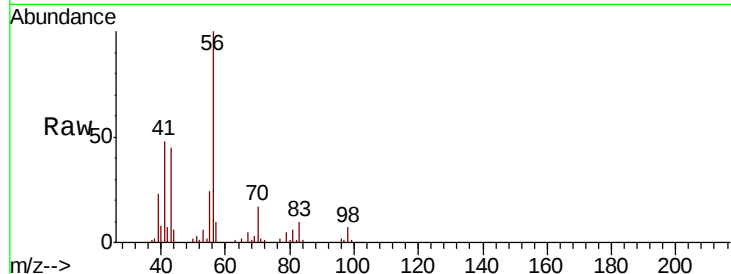




#29  
Tetrahydrofuran  
Concen: 2.195 ug/l  
RT: 7.22 min Scan# 1693  
Delta R.T. 0.01 min  
Lab File: VN052858.D  
Acq: 13 Dec 2018 12:27

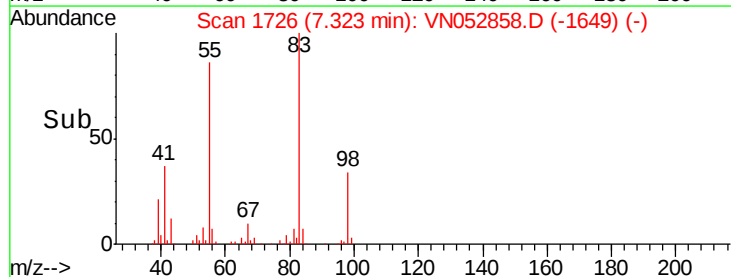
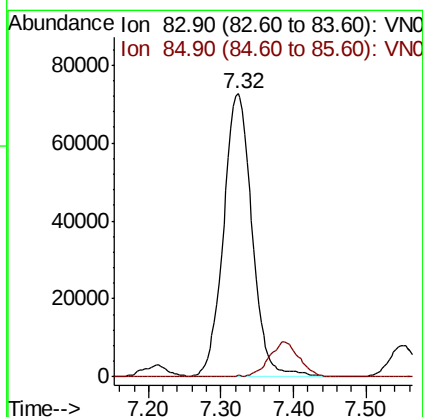
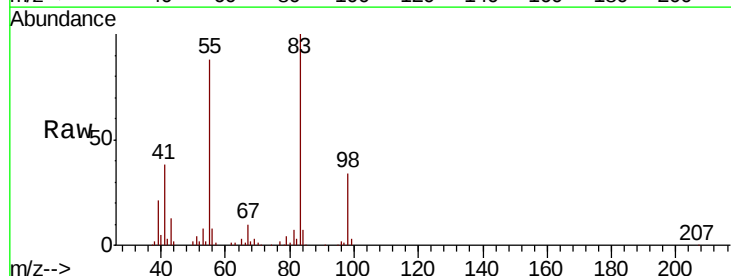
Instrument :  
MSVOA\_N  
ClientSampled :  
056\_BT-1-2

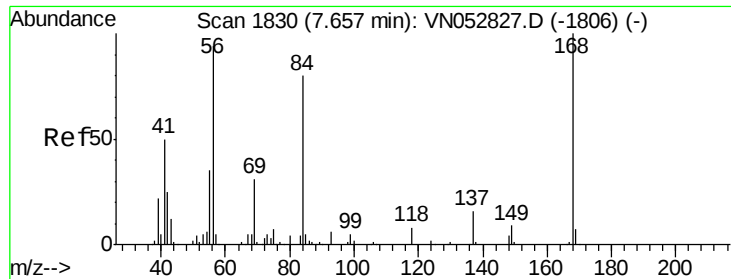
Tot Ion: 42 Resp: 6380  
Ion Ratio Lower Upper  
42 100  
72 9.6 34.7 52.1#  
71 0.0 32.3 48.5#



#30  
Chloroform  
Concen: 9.605 ug/l  
RT: 7.32 min Scan# 1726  
Delta R.T. -0.05 min  
Lab File: VN052858.D  
Acq: 13 Dec 2018 12:27

Tgt Ion: 83 Resp: 198845  
Ion Ratio Lower Upper  
83 100  
85 0.4 52.1 78.1#

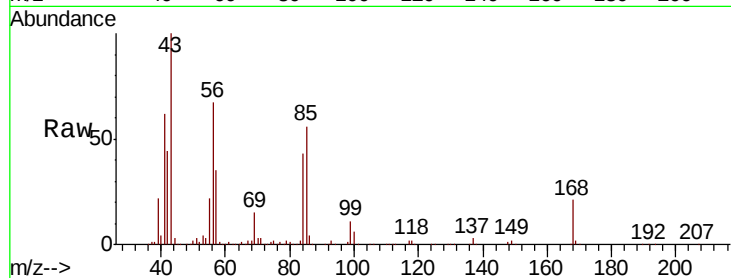




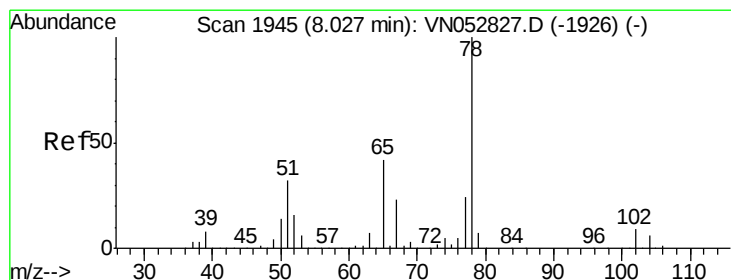
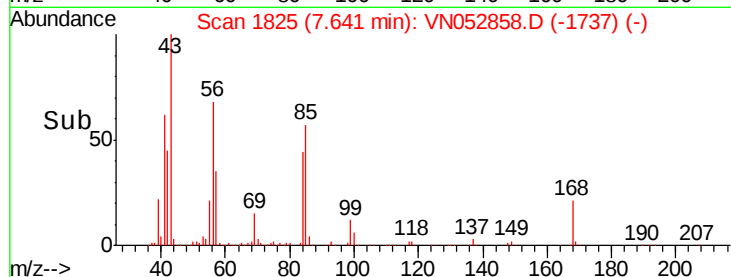
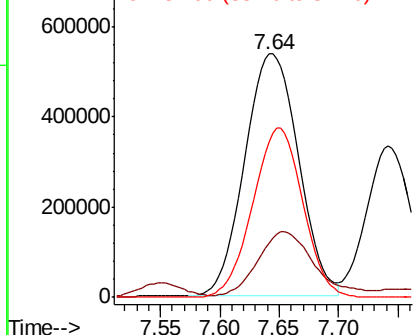
#31  
Cyclohexane  
Concen: 81.625 ug/l  
RT: 7.64 min Scan# 1825  
Delta R.T. -0.02 min  
Lab File: VN052858.D  
Acq: 13 Dec 2018 12:27

Instrument :  
MSVOA\_N  
ClientSampleId :  
056\_BT-1-2

Tot Ion: 56 Resp: 1682473  
Ion Ratio Lower Upper  
56 100  
69 19.8 26.6 39.8#  
84 64.2 68.4 102.6#

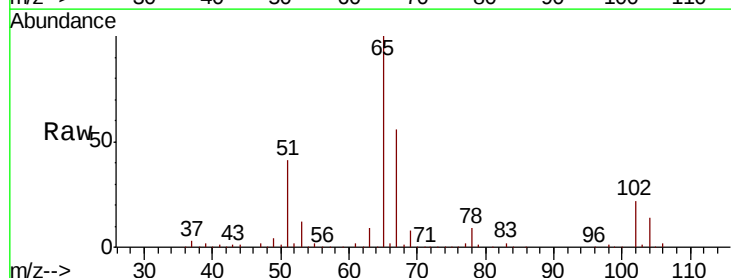


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

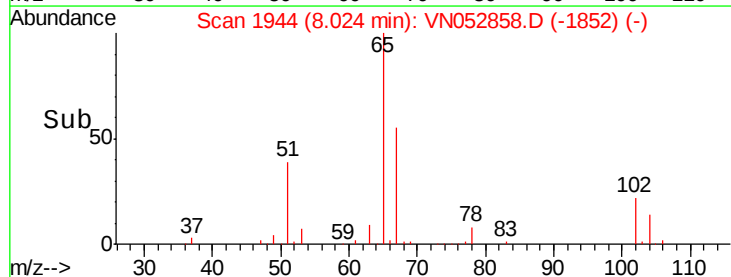
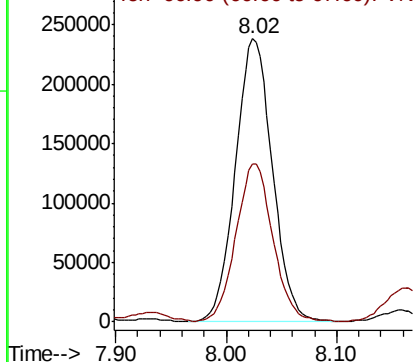


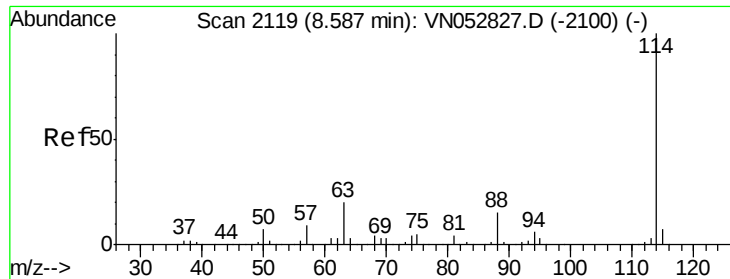
#33  
1,2-Dichloroethane-d4  
Concen: Below ug/l  
RT: 8.02 min Scan# 1944  
Delta R.T. -0.00 min  
Lab File: VN052858.D  
Acq: 13 Dec 2018 12:27

Tgt Ion: 65 Resp: 549441  
Ion Ratio Lower Upper  
65 100  
67 55.4 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0



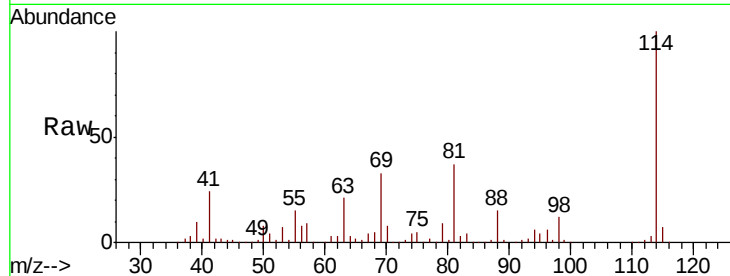


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN052858.D  
 Acq: 13 Dec 2018 12:27

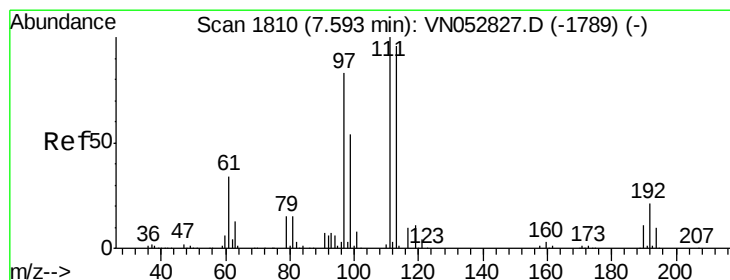
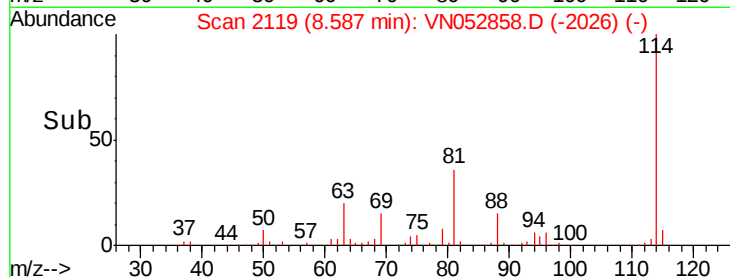
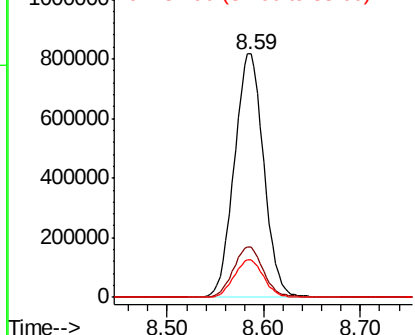
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 056\_BT-1-2

Tot Ion:114 Resp: 1721502

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 20.6  | 0.0   | 39.8  |
| 88  | 15.4  | 0.0   | 31.0  |



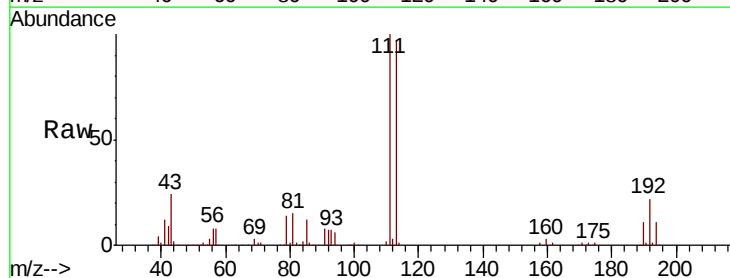
Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN



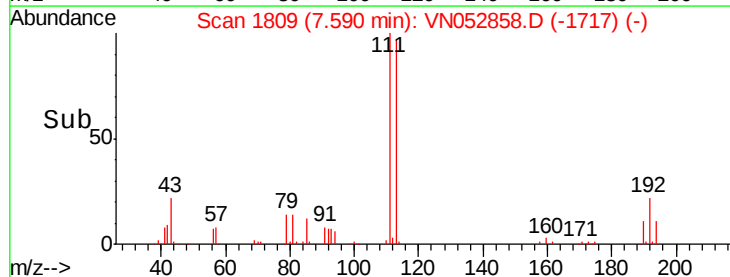
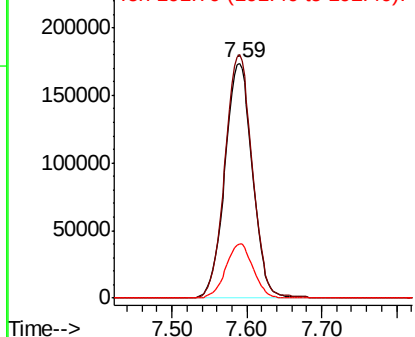
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. -0.00 min  
 Lab File: VN052858.D  
 Acq: 13 Dec 2018 12:27

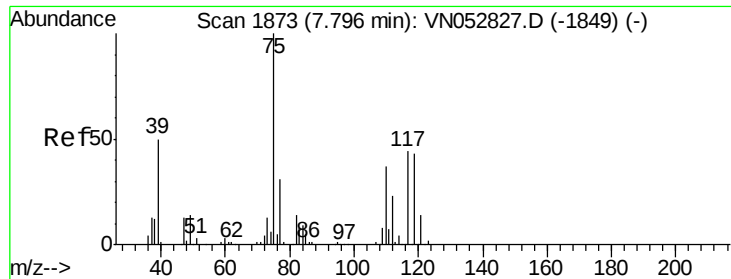
Tgt Ion:113 Resp: 442862

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 103.0 | 83.0  | 124.4 |
| 192 | 22.9  | 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





#36

1,1-Dichloropropene

Concen: 4.927 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampled :

056\_BT-1-2

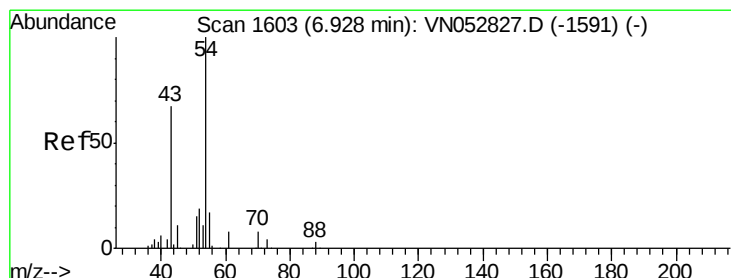
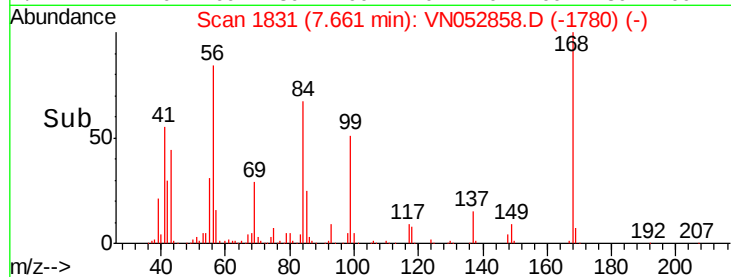
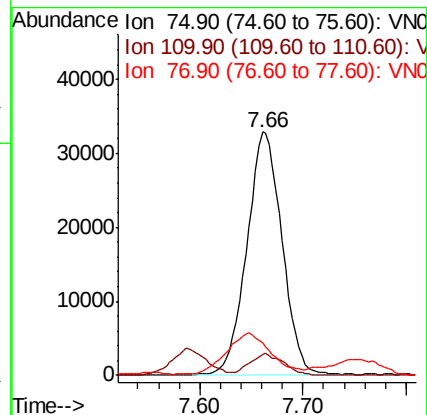
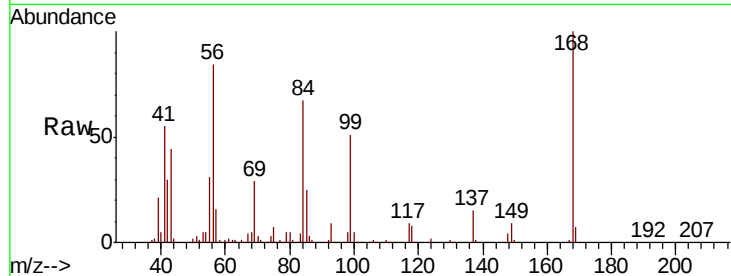
Tot Ion: 75 Resp: 78107

Ion Ratio Lower Upper

75 100

110 8.6 18.2 54.6#

77 22.7 24.9 37.3#



#37

Ethyl Acetate

Concen: 2.248 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.11 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

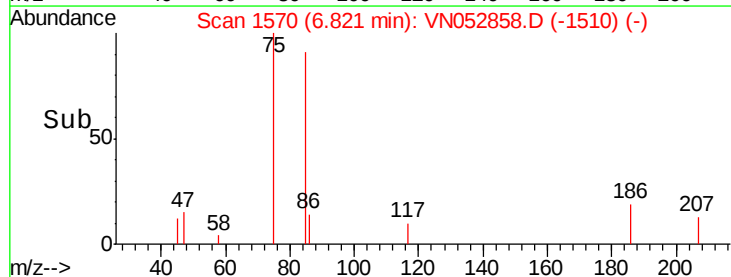
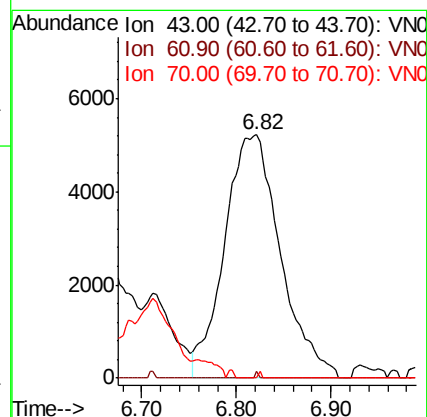
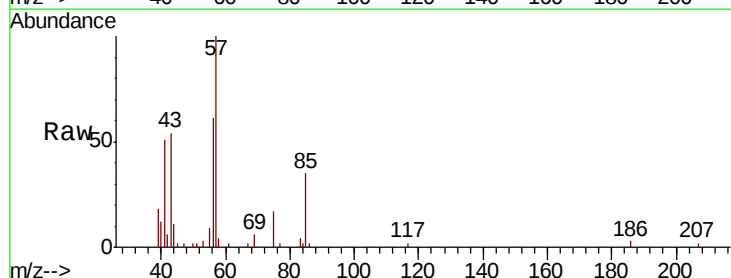
Tgt Ion: 43 Resp: 21413

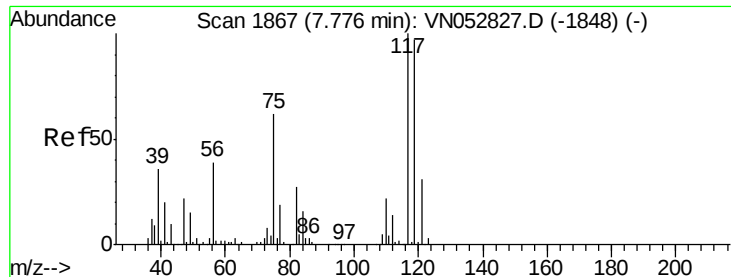
Ion Ratio Lower Upper

43 100

61 0.1 11.8 17.6#

70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 6.782 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.12 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampled :

056\_BT-1-2

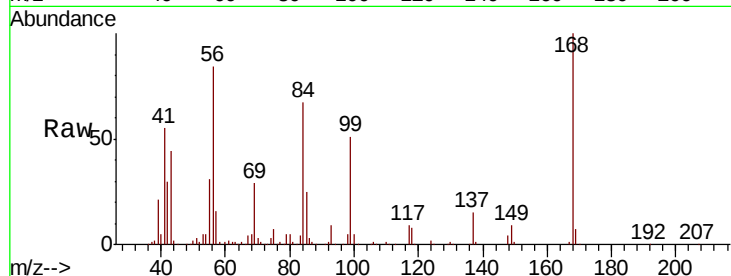
Tot Ion:117 Resp: 98959

Ion Ratio Lower Upper

117 100

119 4.4 77.1 115.7#

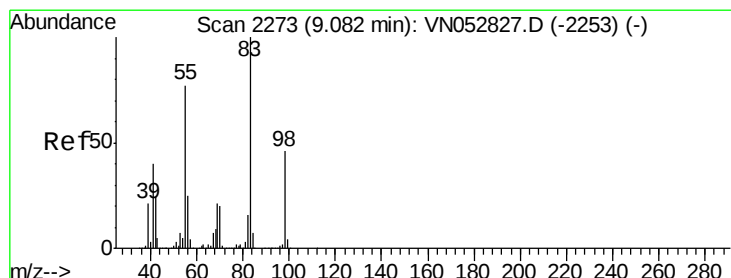
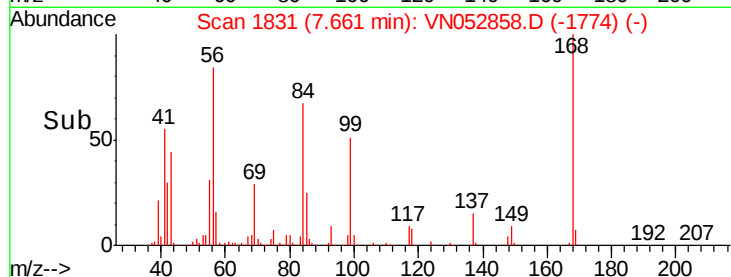
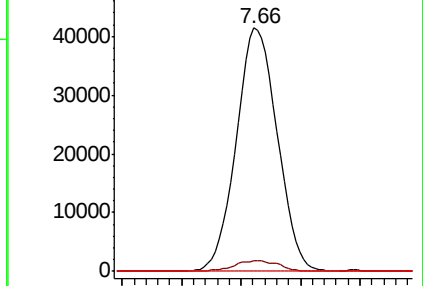
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 494.384 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

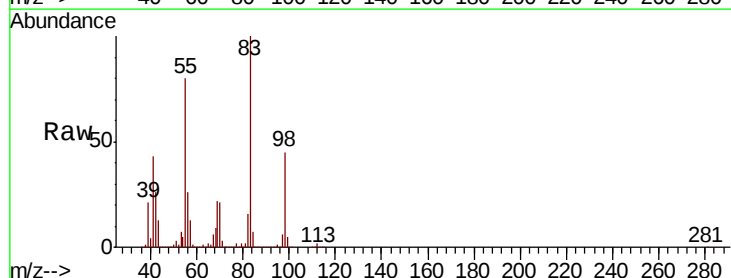
Tgt Ion: 83 Resp: 9617750

Ion Ratio Lower Upper

83 100

55 79.4 61.3 91.9

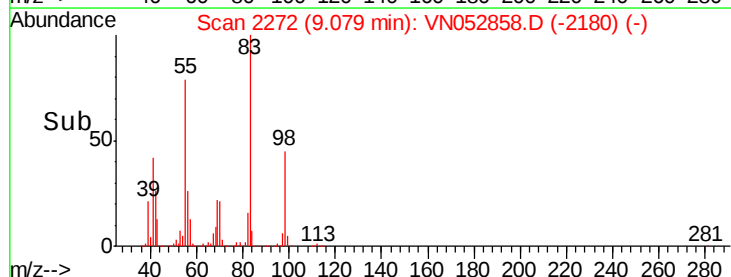
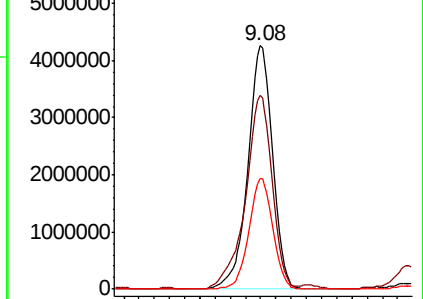
98 45.4 37.0 55.4

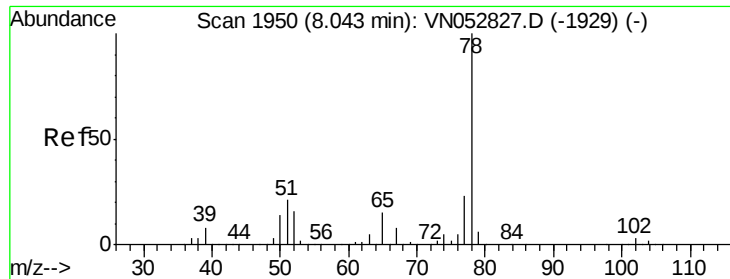


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0





#40

Benzene

Concen: 1.681 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. -0.00 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampleId :

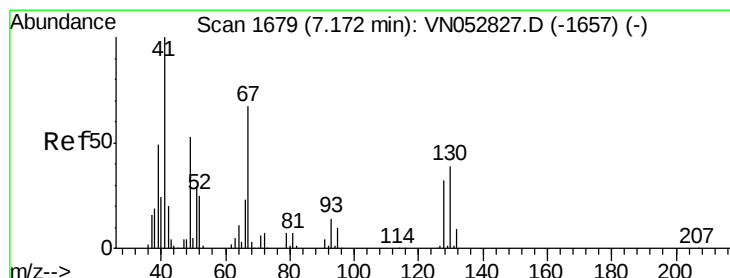
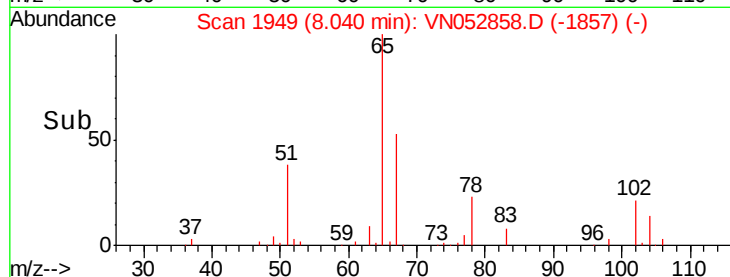
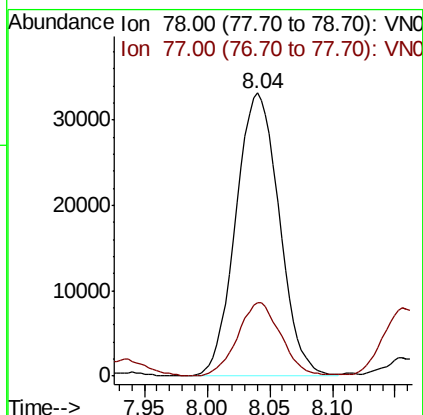
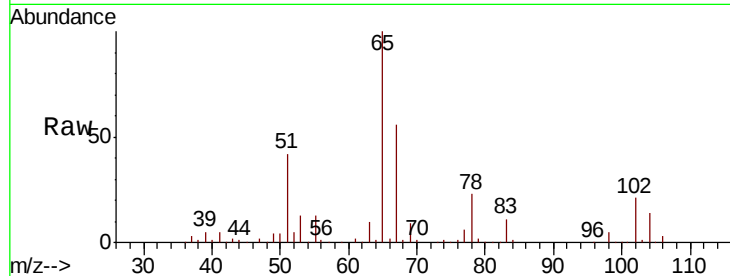
056\_BT-1-2

Tot Ion: 78 Resp: 79972

Ion Ratio Lower Upper

78 100

77 26.2 18.5 27.7



#41

Methacrylonitrile

Concen: 7.591 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.04 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Tgt Ion: 41 Resp: 40055

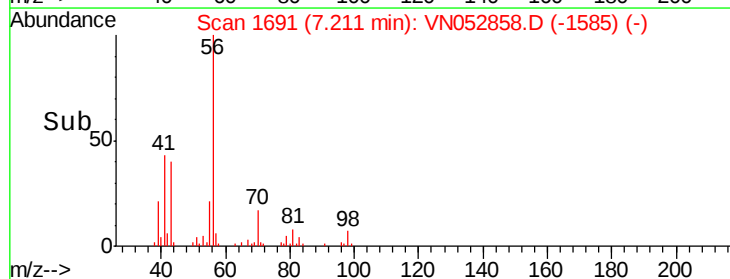
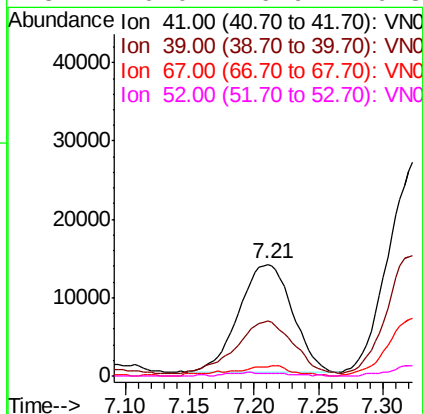
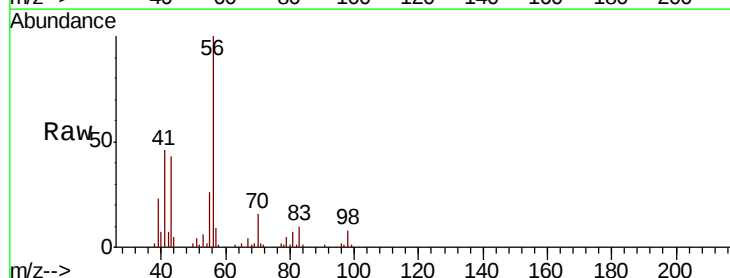
Ion Ratio Lower Upper

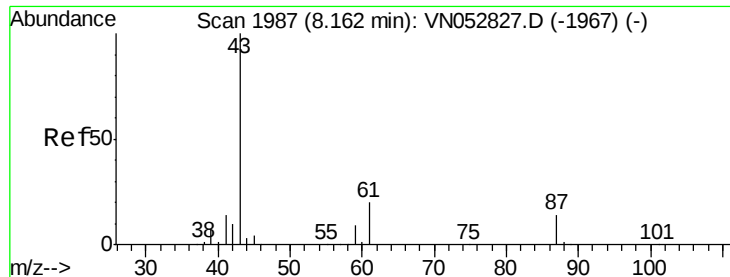
41 100

39 52.6 48.0 72.0

67 10.1 70.3 105.5#

52 0.0 26.9 40.3#





#43

Isopropyl Acetate

Concen: 24.567 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. -0.02 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampled :

056\_BT-1-2

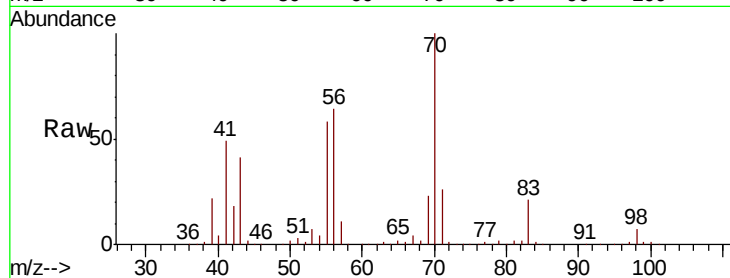
Tot Ion: 43 Resp: 479684

Ion Ratio Lower Upper

43 100

61 0.2 22.9 34.3#

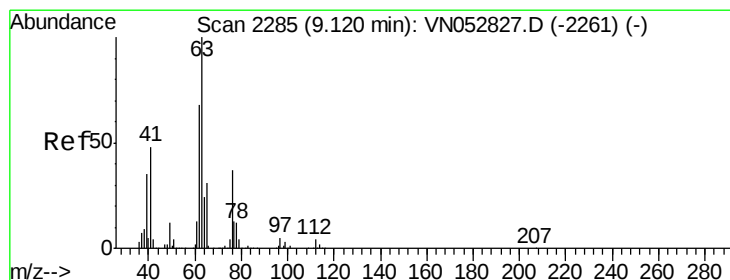
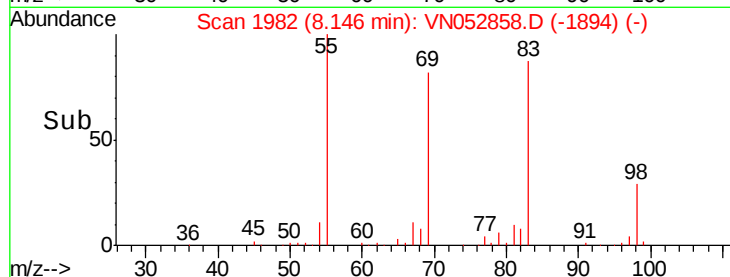
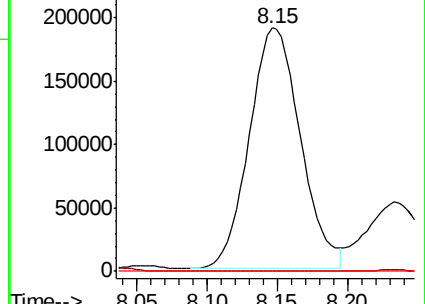
87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-1967) (-)

Ion 61.00 (60.70 to 61.70): VN052827.D (-1967) (-)

Ion 87.00 (86.70 to 87.70): VN052827.D (-1967) (-)



#45

1,2-Dichloropropane

Concen: 0.234 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. 0.03 min

Lab File: VN052858.D

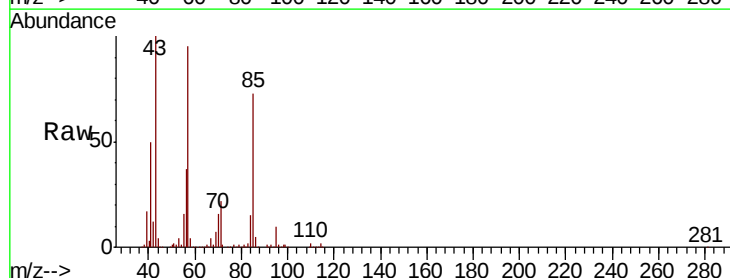
Acq: 13 Dec 2018 12:27

Tgt Ion: 63 Resp: 2921

Ion Ratio Lower Upper

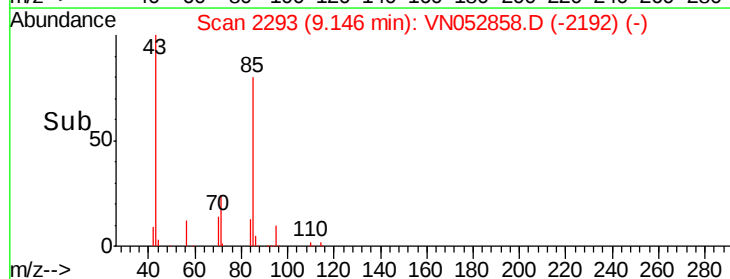
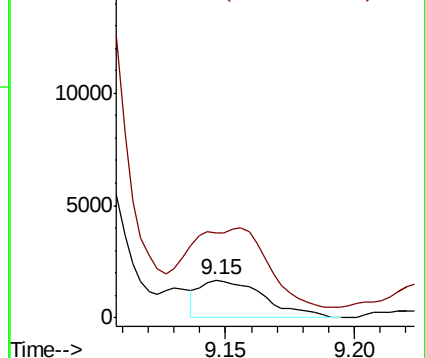
63 100

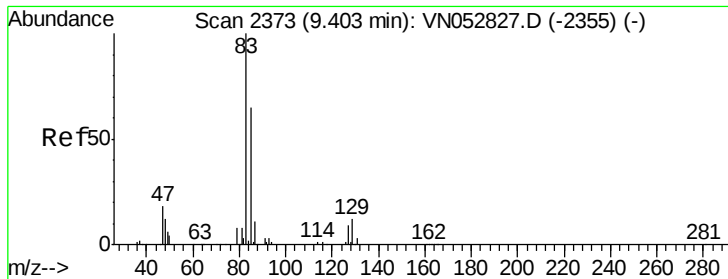
65 195.7 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN052827.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN052827.D (-2261) (-)





#47

Bromodichloromethane

Concen: 55.645 ug/l

RT: 9.39 min Scan# 2368

Delta R.T. -0.02 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampleId :

056\_BT-1-2

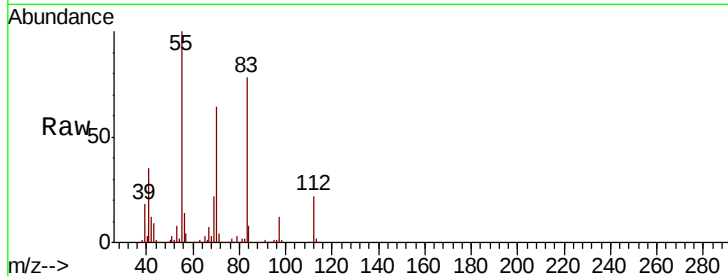
Tot Ion: 83 Resp: 833980

Ion Ratio Lower Upper

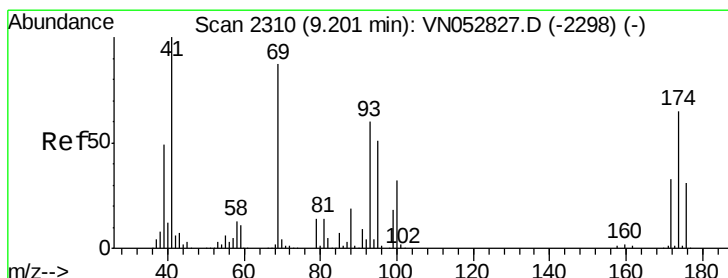
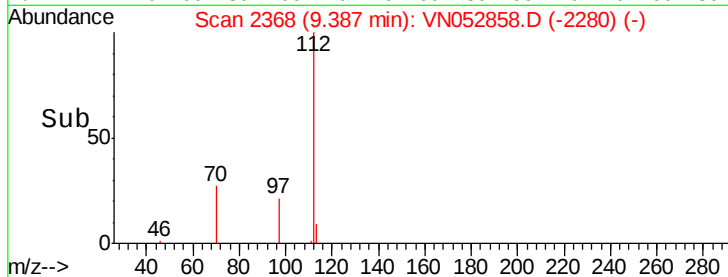
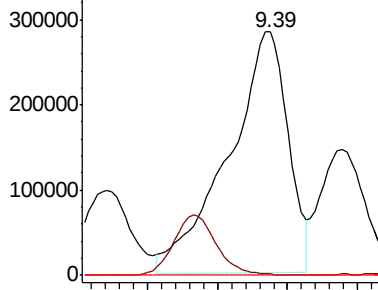
83 100

85 0.4 51.6 77.4#

127 0.0 7.1 10.7#



Abundance Ion 82.90 (82.60 to 83.60): VNC  
Ion 84.90 (84.60 to 85.60): VNC  
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 45.203 ug/l

RT: 9.14 min Scan# 2292

Delta R.T. -0.06 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

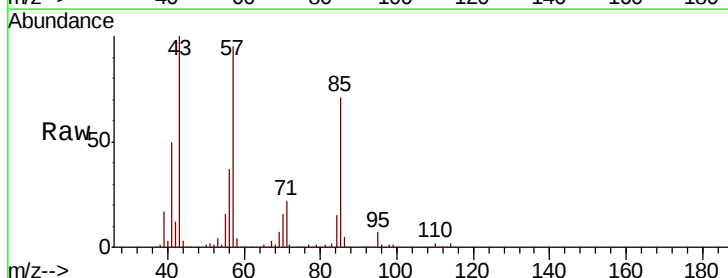
Tgt Ion: 41 Resp: 387062

Ion Ratio Lower Upper

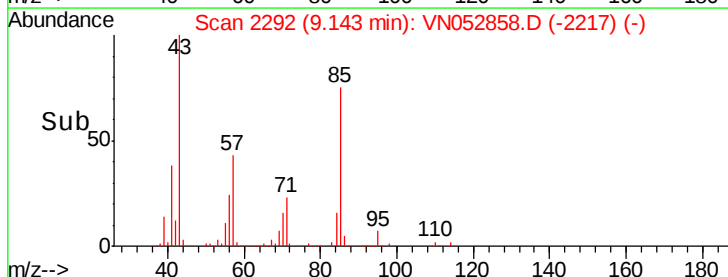
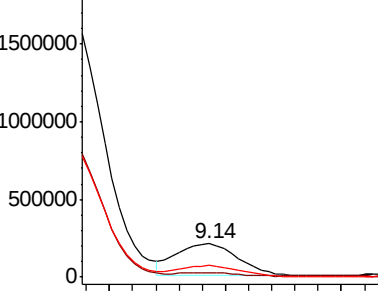
41 100

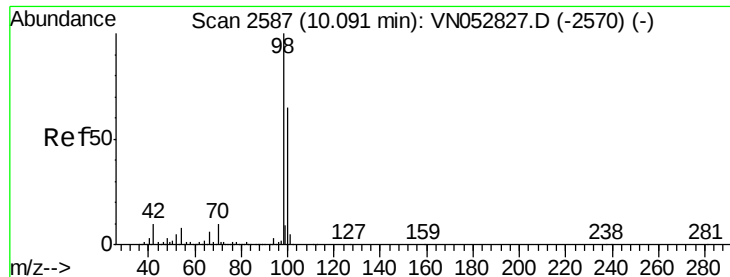
69 0.0 72.2 108.2#

39 33.2 41.9 62.9#



Abundance Ion 41.00 (40.70 to 41.70): VNC  
Ion 69.00 (68.70 to 69.70): VNC  
Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampled :

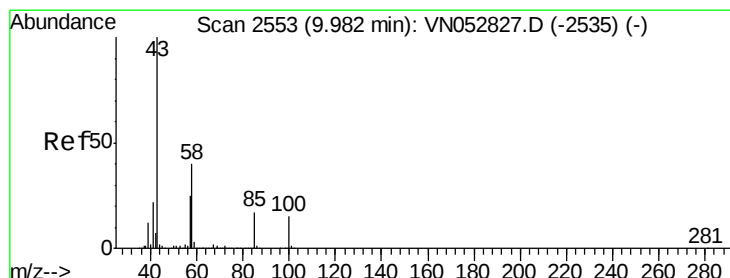
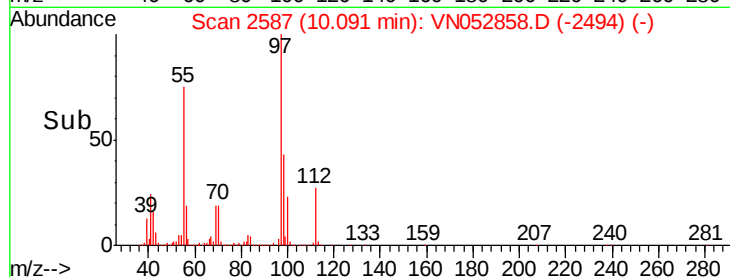
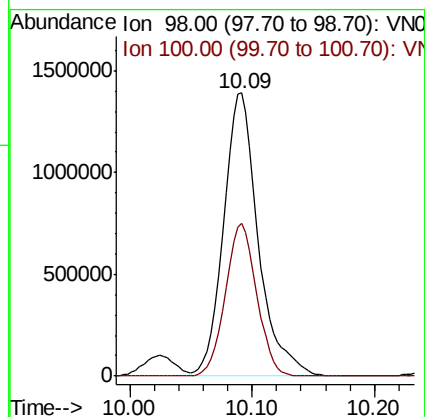
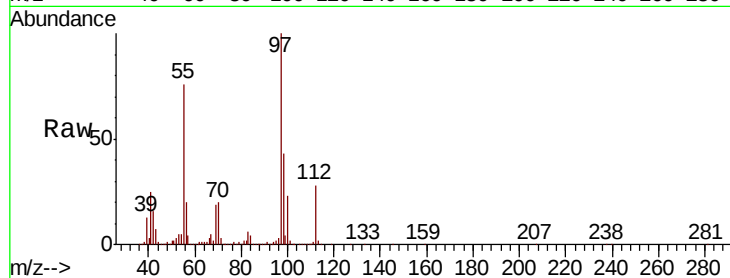
056\_BT-1-2

Tot Ion: 98 Resp: 2770773

Ion Ratio Lower Upper

98 100

100 48.6 51.6 77.4#



#51

4-Methyl-2-Pentanone

Concen: 37.935 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052858.D

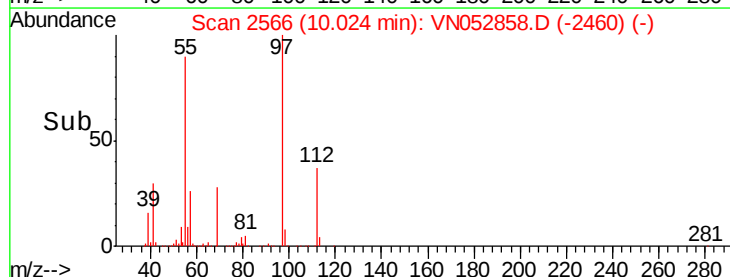
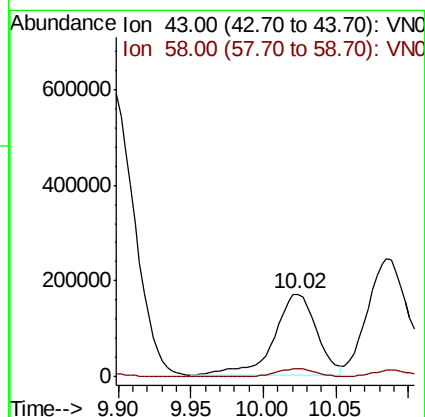
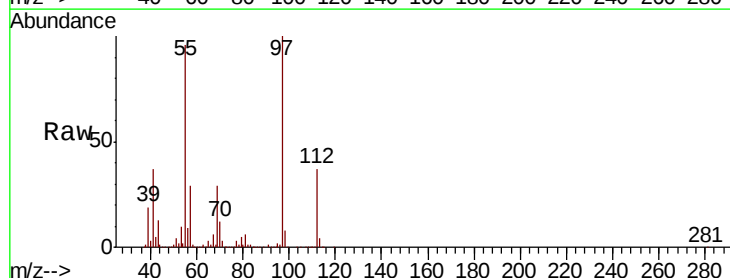
Acq: 13 Dec 2018 12:27

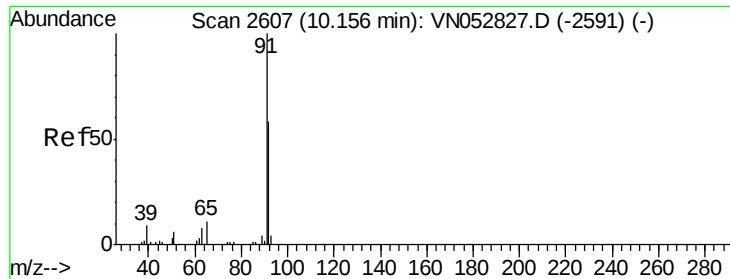
Tgt Ion: 43 Resp: 339640

Ion Ratio Lower Upper

43 100

58 9.2 32.2 48.4#





#52

Toluene

Concen: 0.720 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampled :

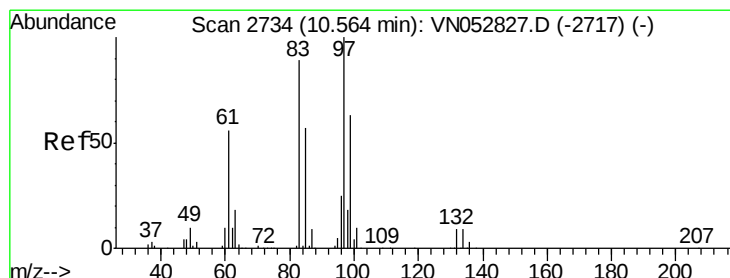
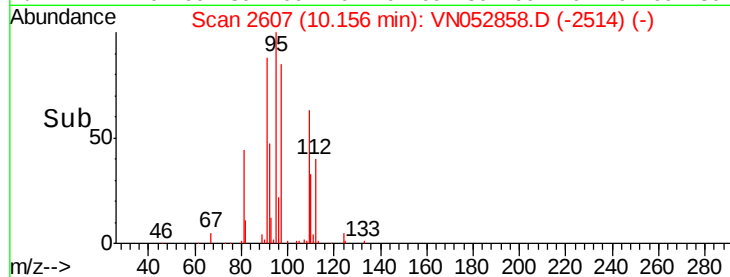
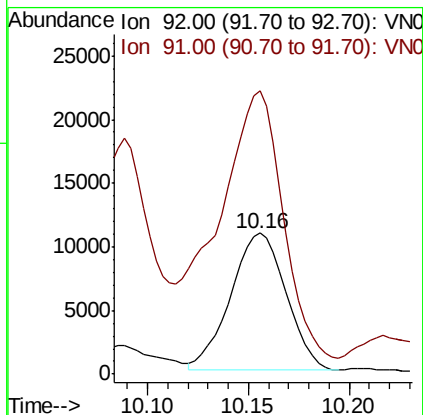
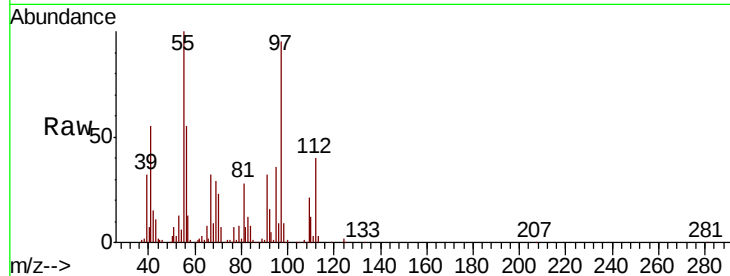
056\_BT-1-2

Tot Ion: 92 Resp: 20760

Ion Ratio Lower Upper

92 100

91 220.2 139.8 209.6#



#55

1,1,2-Trichloroethane

Concen: 214.621 ug/l

RT: 10.53 min Scan# 2724

Delta R.T. -0.03 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Tgt Ion: 97 Resp: 2207784

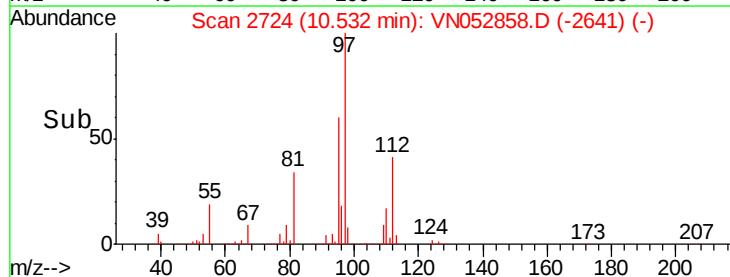
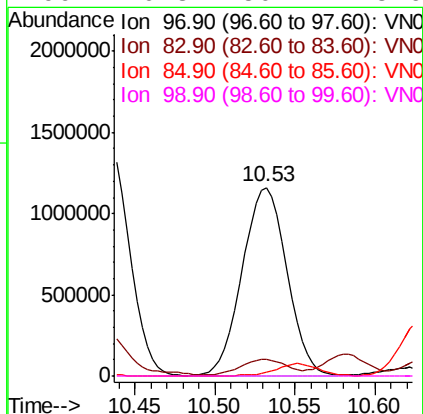
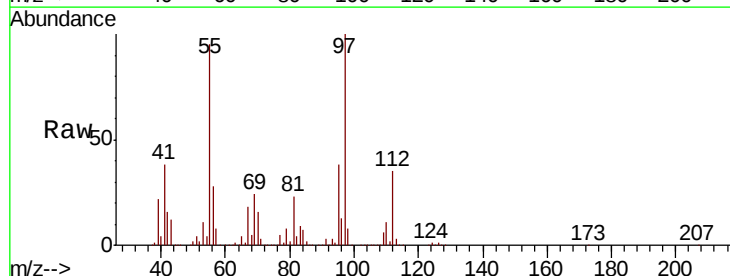
Ion Ratio Lower Upper

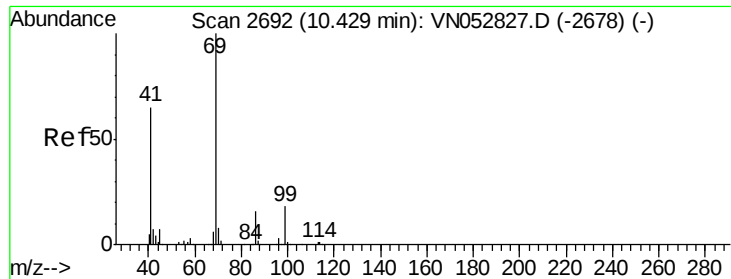
97 100

83 7.6 70.9 106.3#

85 1.8 45.4 68.2#

99 0.3 50.4 75.6#





#56

Ethyl methacrylate

Concen: 54.825 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampled :

056\_BT-1-2

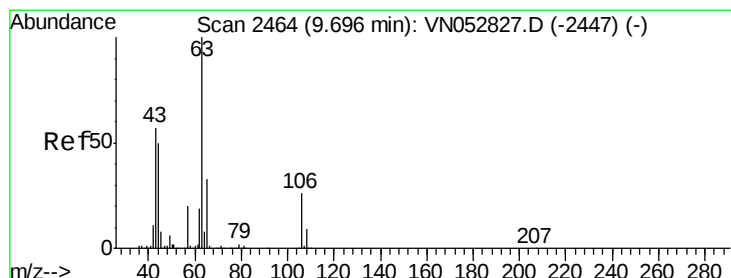
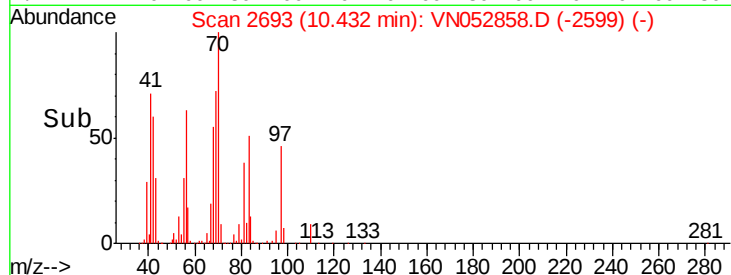
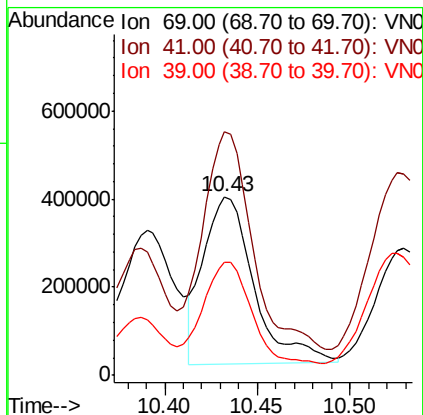
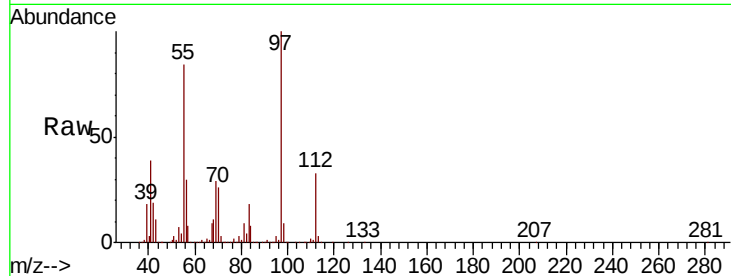
Tot Ion: 69 Resp: 723774

Ion Ratio Lower Upper

69 100

41 146.5 51.7 77.5#

39 55.9 24.6 37.0#



#58

2-Chloroethyl Vinyl ether

Concen: 1.090 ug/l

RT: 9.67 min Scan# 2455

Delta R.T. -0.03 min

Lab File: VN052858.D

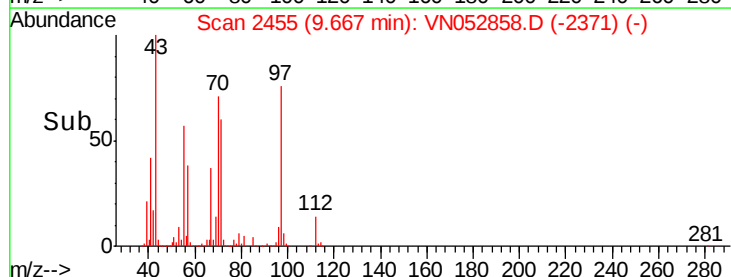
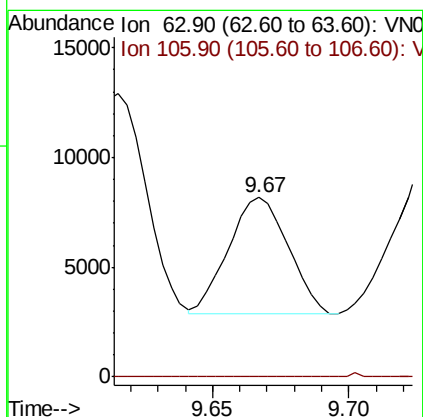
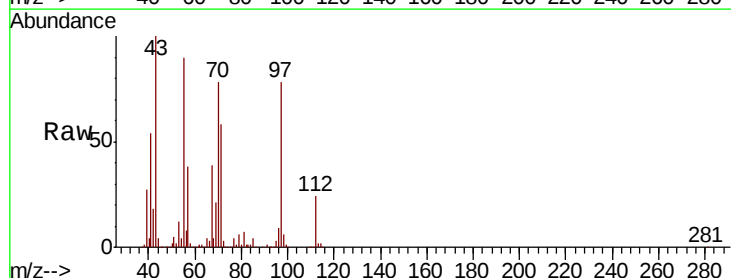
Acq: 13 Dec 2018 12:27

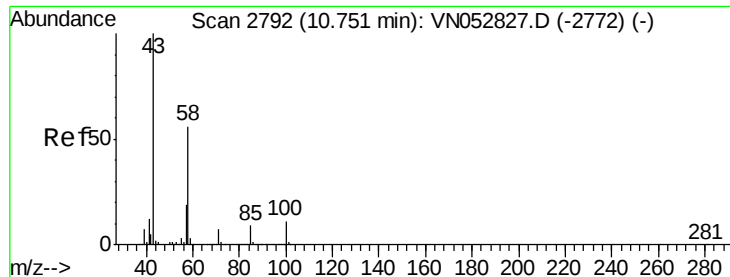
Tgt Ion: 63 Resp: 8032

Ion Ratio Lower Upper

63 100

106 0.0 21.0 31.6#





#59

2-Hexanone

Concen: 462.782 ug/l

RT: 10.72 min Scan# 2782

Delta R.T. -0.03 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampled :

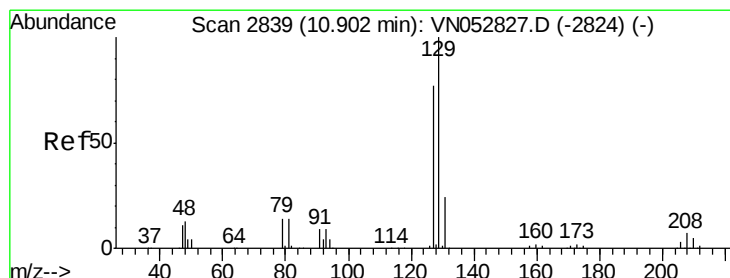
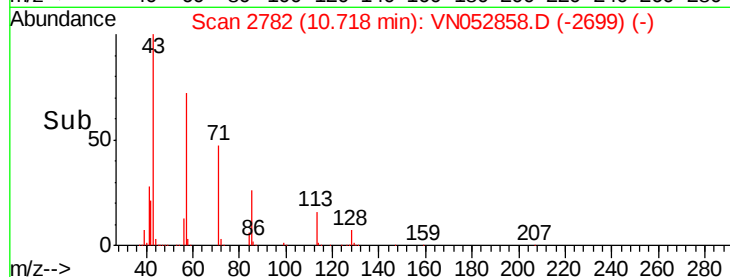
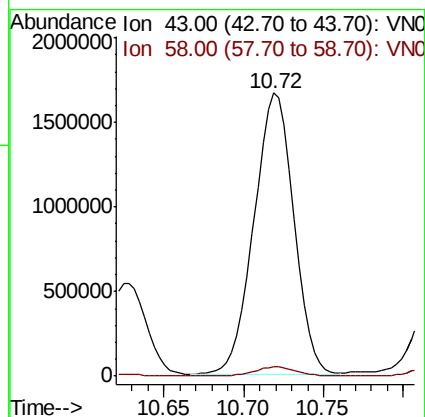
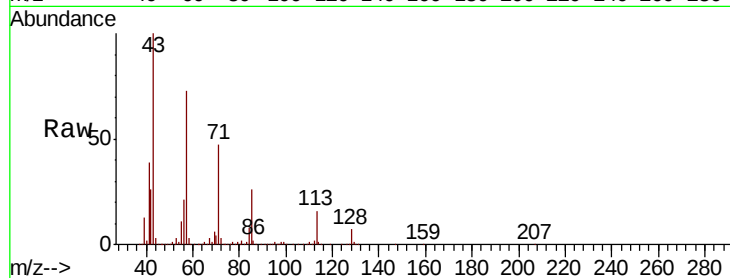
056\_BT-1-2

Tot Ion: 43 Resp: 2839548

Ion Ratio Lower Upper

43 100

58 3.3 28.1 84.3#



#60

Dibromochloromethane

Concen: 0.578 ug/l

RT: 10.82 min Scan# 2814

Delta R.T. -0.08 min

Lab File: VN052858.D

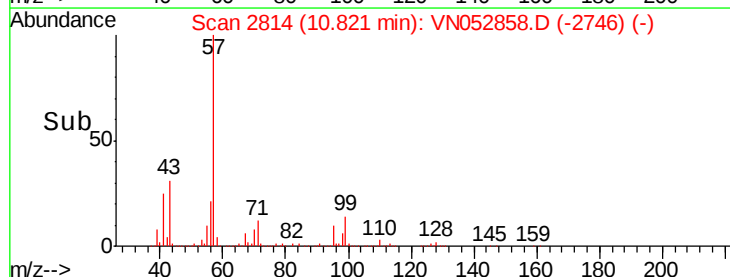
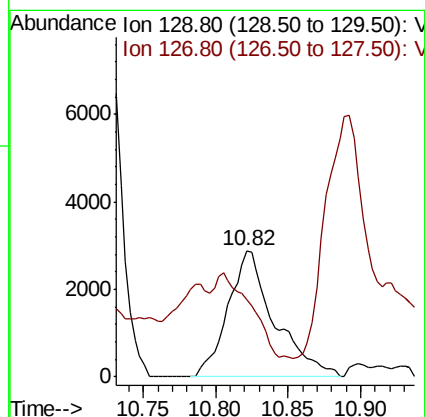
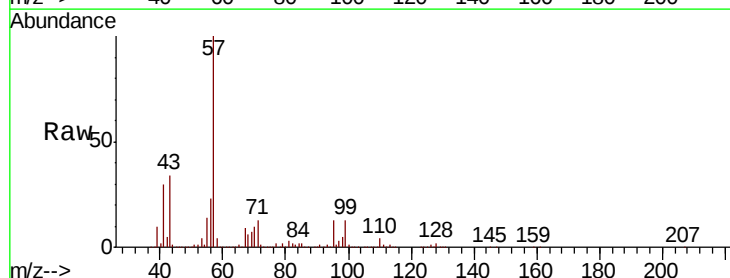
Acq: 13 Dec 2018 12:27

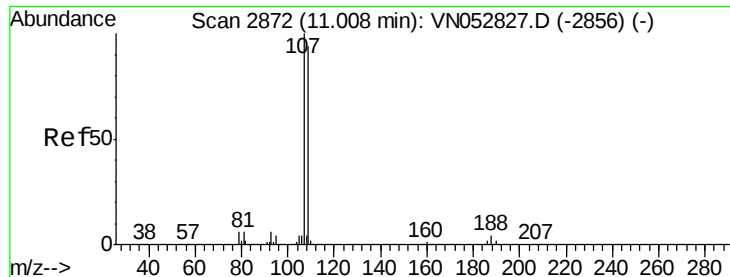
Tgt Ion: 129 Resp: 6431

Ion Ratio Lower Upper

129 100

127 52.9 38.6 116.0

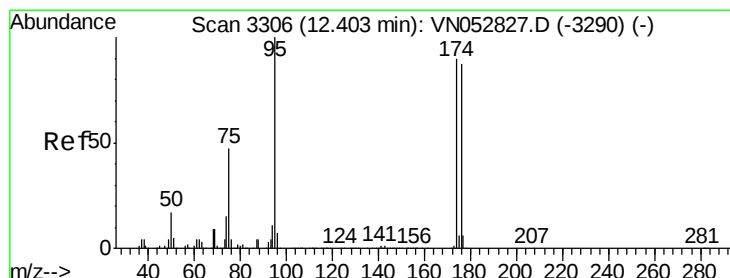
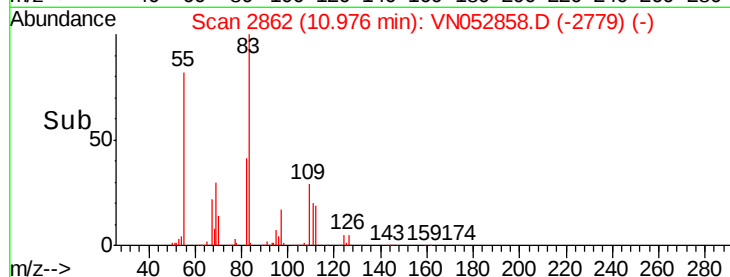
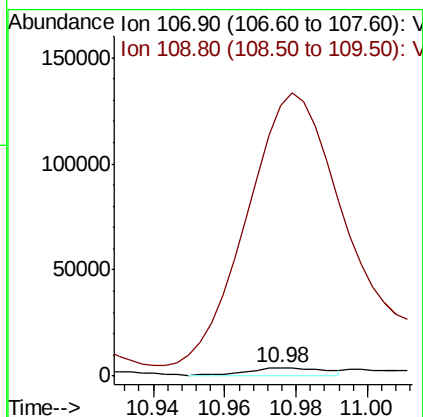
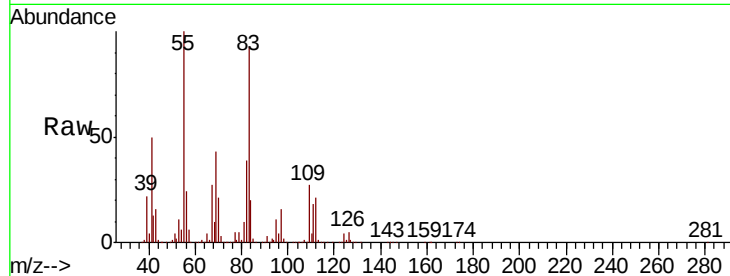




#61  
 1,2-Dibromoethane  
 Concen: 0.491 ug/l  
 RT: 10.98 min Scan# 2862  
 Delta R.T. -0.03 min  
 Lab File: VN052858.D  
 Acq: 13 Dec 2018 12:27

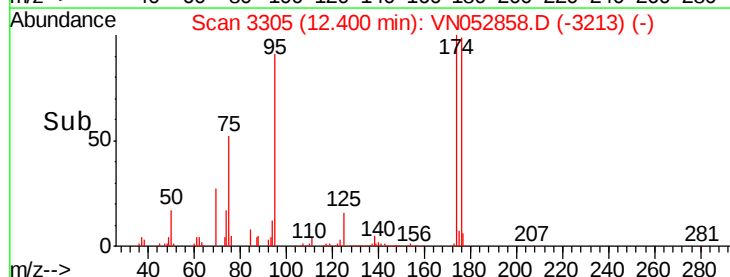
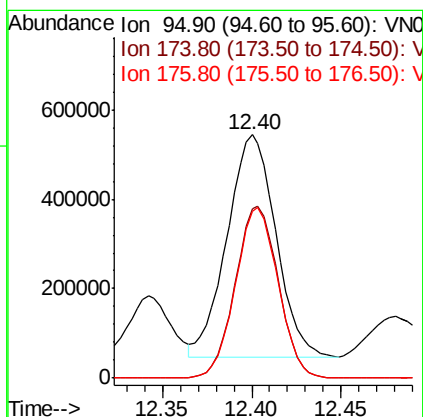
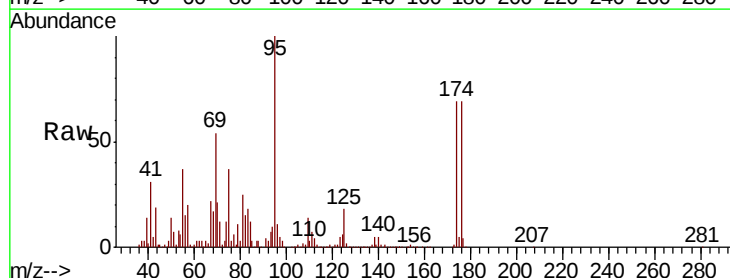
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 056\_BT-1-2

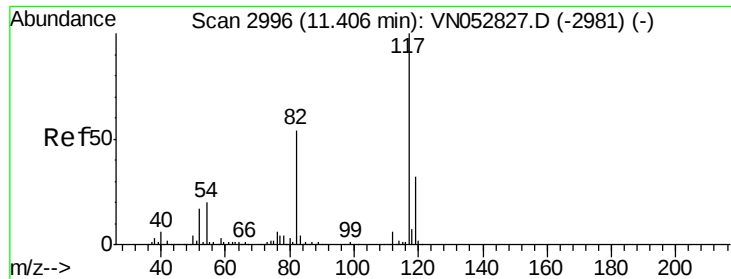
Tot Ion:107 Resp: 4990  
 Ion Ratio Lower Upper  
 107 100  
 109 5404.9 75.4 113.0#



#62  
 4-Bromofluorobenzene  
 Concen: 0.491 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. -0.00 min  
 Lab File: VN052858.D  
 Acq: 13 Dec 2018 12:27

Tgt Ion: 95 Resp: 938406  
 Ion Ratio Lower Upper  
 95 100  
 174 68.9 0.0 178.8  
 176 67.7 0.0 173.8

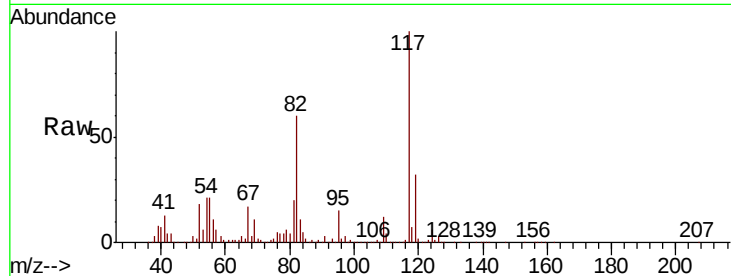




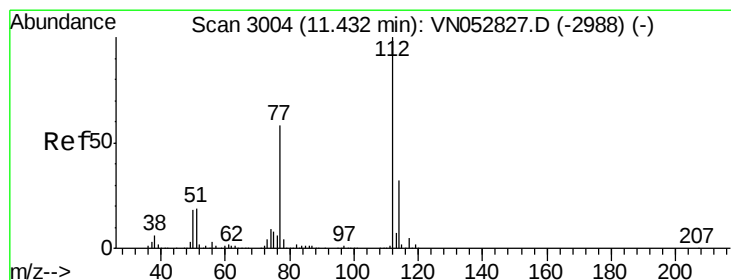
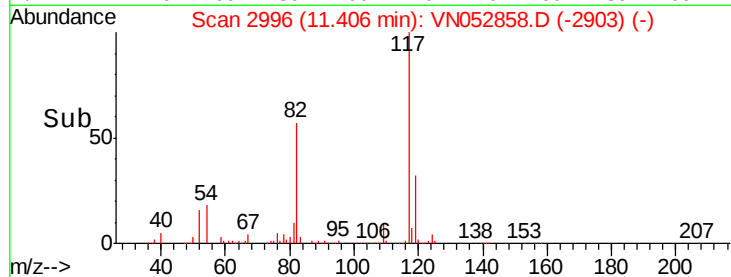
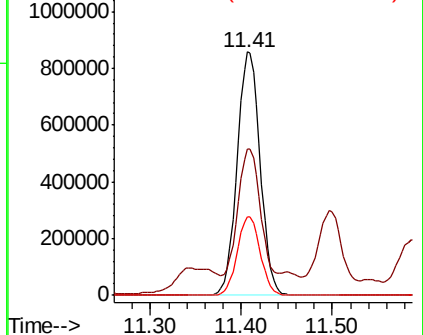
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN052858.D  
Acq: 13 Dec 2018 12:27

Instrument :  
MSVOA\_N  
ClientSampleId :  
056\_BT-1-2

Tot Ion:117 Resp: 1499909  
Ion Ratio Lower Upper  
117 100  
82 48.8 42.8 64.2  
119 32.3 25.5 38.3

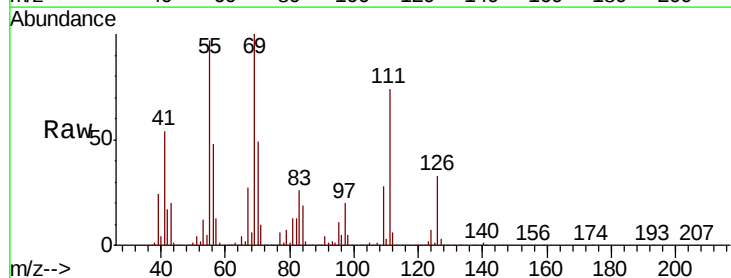


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

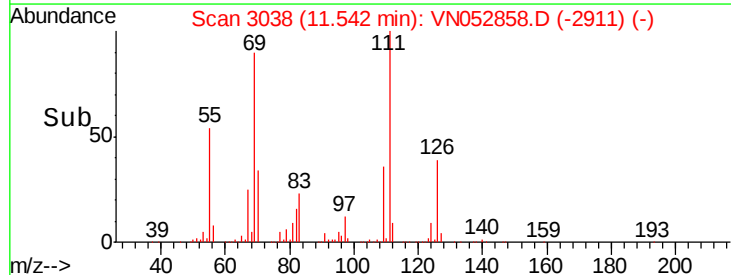
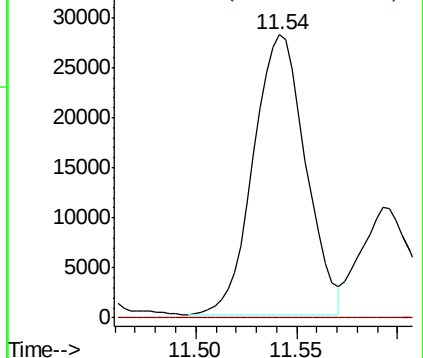


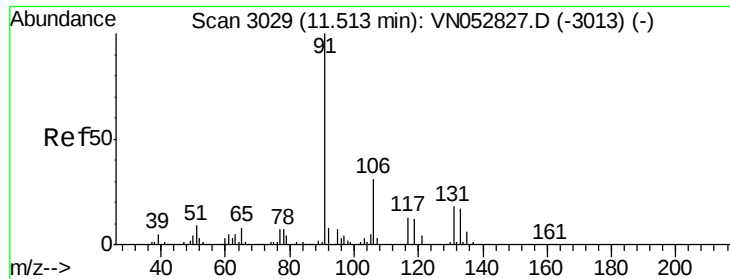
#65  
Chlorobenzene  
Concen: 1.618 ug/l  
RT: 11.54 min Scan# 3038  
Delta R.T. 0.11 min  
Lab File: VN052858.D  
Acq: 13 Dec 2018 12:27

Tgt Ion:112 Resp: 50352  
Ion Ratio Lower Upper  
112 100  
114 0.0 25.5 38.3#



Abundance Ion 111.90 (111.60 to 112.60): V  
Ion 113.90 (113.60 to 114.60): V

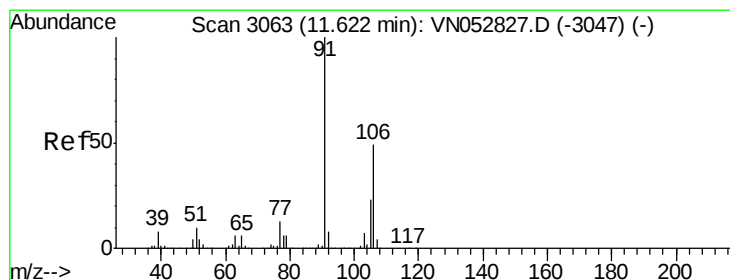
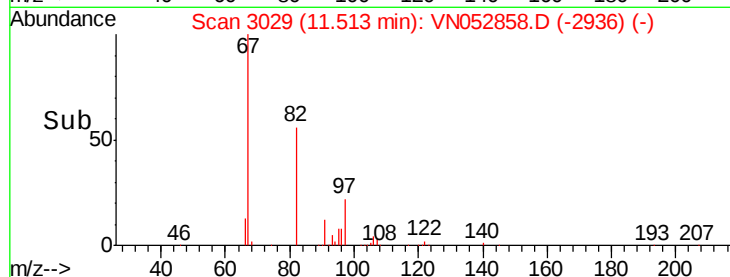
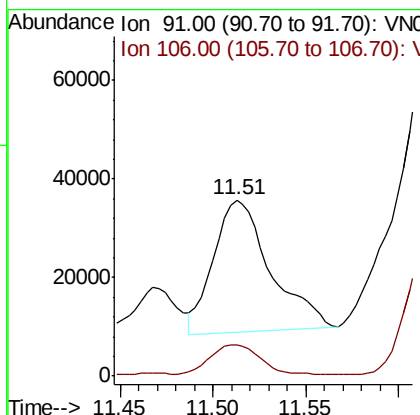
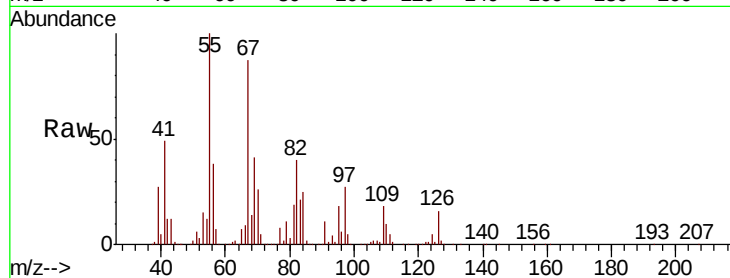




#67  
Ethyl Benzene  
Concen: 1.067 ug/l  
RT: 11.51 min Scan# 3029  
Delta R.T. 0.00 min  
Lab File: VN052858.D  
Acq: 13 Dec 2018 12:27

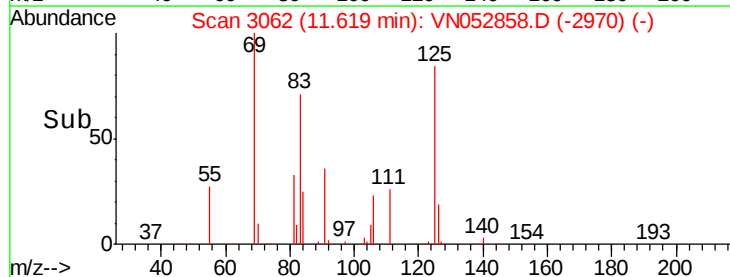
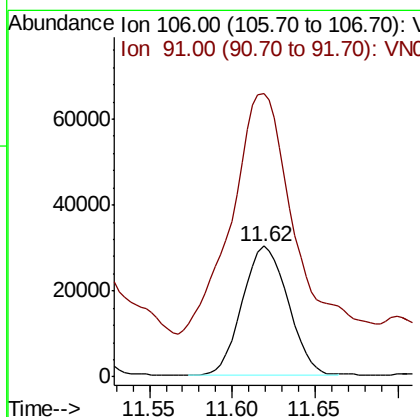
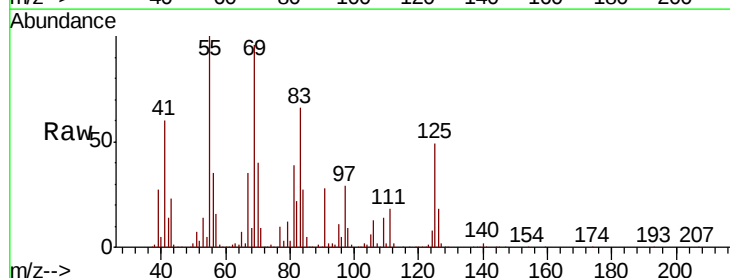
Instrument :  
MSVOA\_N  
ClientSampled :  
056\_BT-1-2

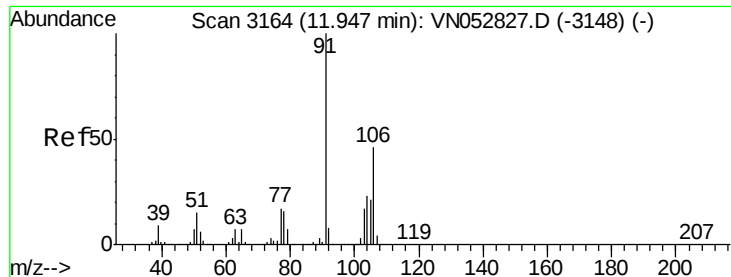
Tot Ion: 91 Resp: 57008  
Ion Ratio Lower Upper  
91 100  
106 23.8 24.9 37.3#



#68  
m/p-Xylenes  
Concen: 2.901 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN052858.D  
Acq: 13 Dec 2018 12:27

Tgt Ion: 106 Resp: 58205  
Ion Ratio Lower Upper  
106 100  
91 269.2 162.2 243.4#

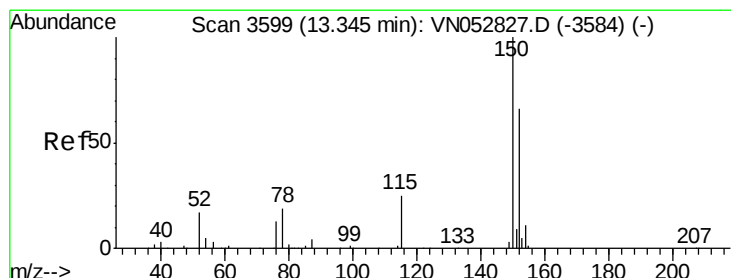
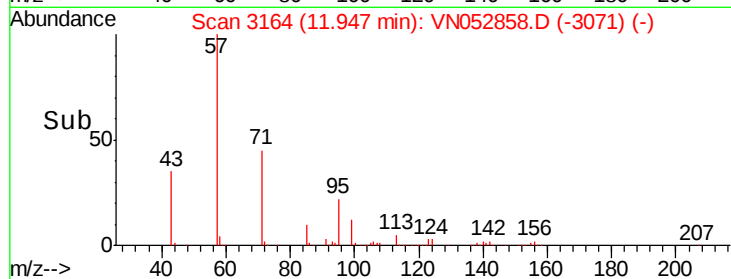
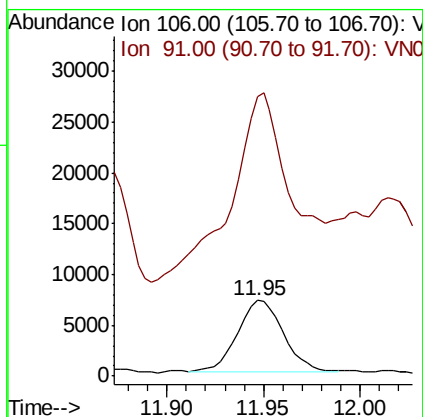
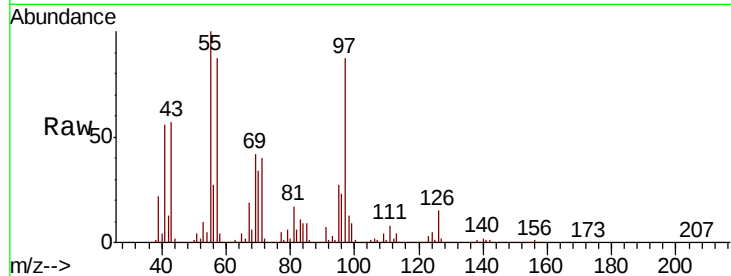




#69  
o-Xylene  
Concen: 0.578 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: VN052858.D  
Acq: 13 Dec 2018 12:27

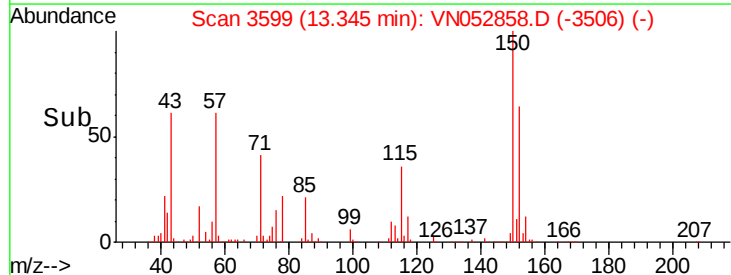
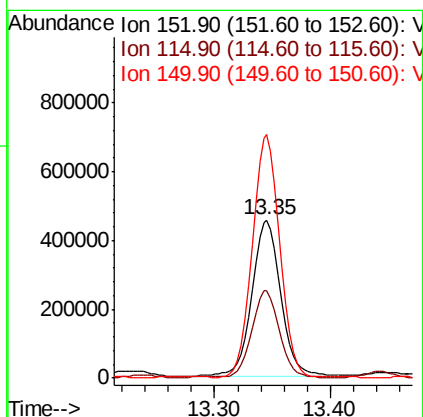
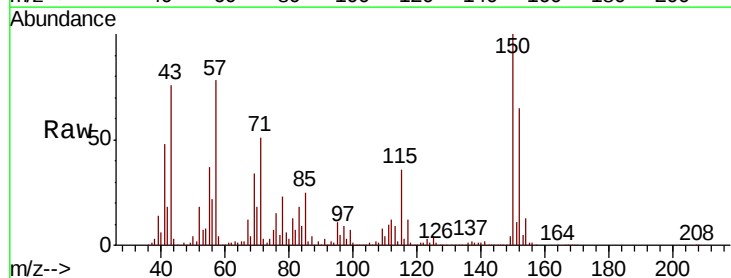
Instrument :  
MSVOA\_N  
ClientSampled :  
056\_BT-1-2

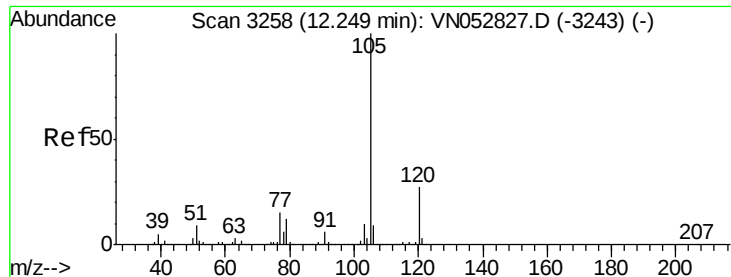
Tot Ion:106 Resp: 11333  
Ion Ratio Lower Upper  
106 100  
91 359.1 106.6 319.8#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN052858.D  
Acq: 13 Dec 2018 12:27

Tgt Ion:152 Resp: 792901  
Ion Ratio Lower Upper  
152 100  
115 52.6 28.3 85.0  
150 146.1 0.0 347.8





#73

Isopropylbenzene

Concen: 26.905 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampled :

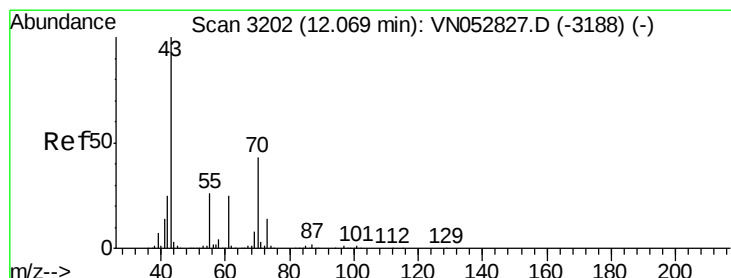
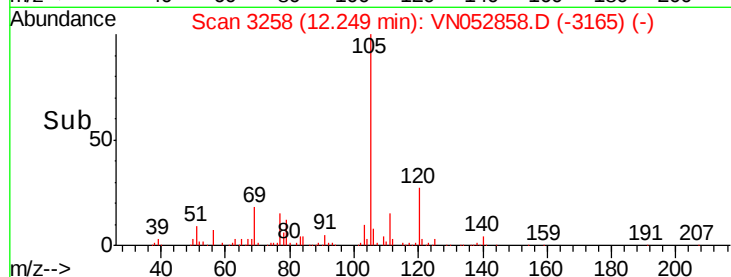
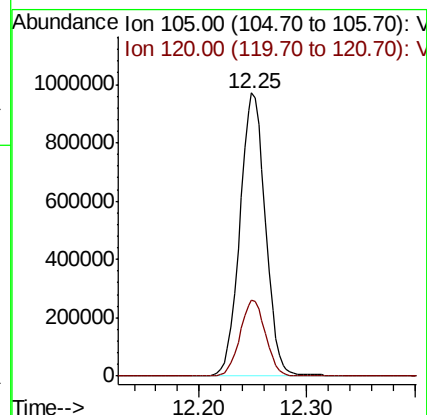
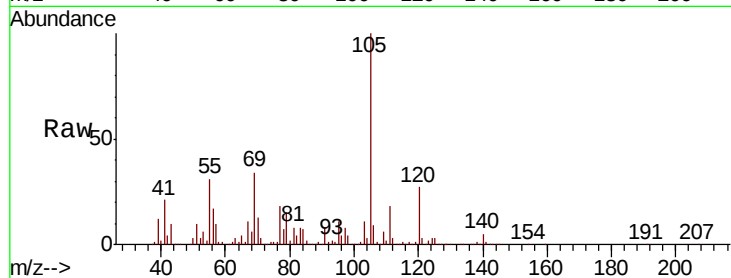
056\_BT-1-2

Tot Ion:105 Resp: 1592820

Ion Ratio Lower Upper

105 100

120 26.9 13.3 39.9



#74

N-ethyl acetate

Concen: 91.863 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Tgt Ion: 43 Resp: 1493048

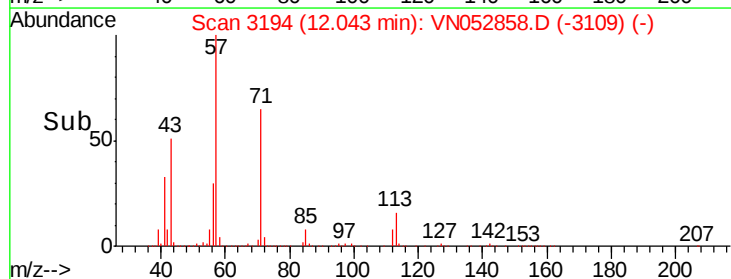
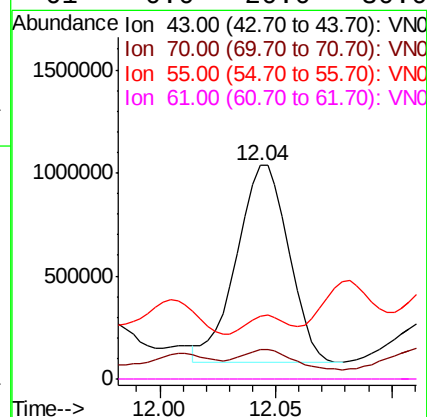
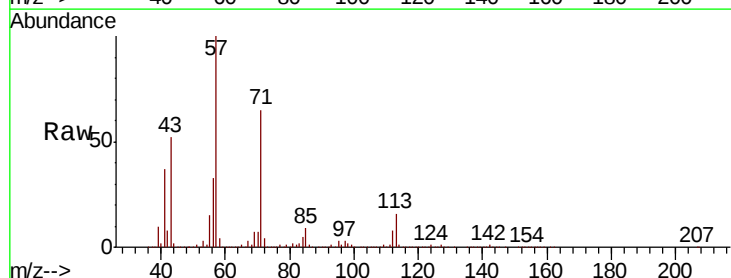
Ion Ratio Lower Upper

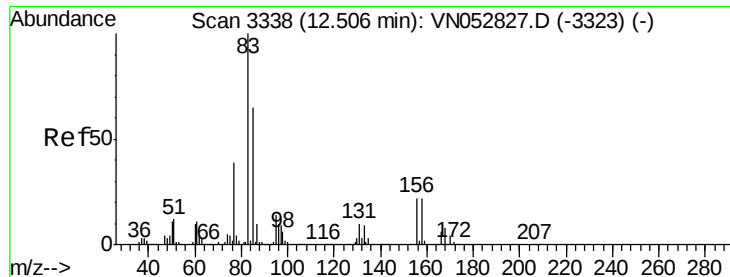
43 100

70 9.9 34.2 51.4#

55 6.7 20.3 30.5#

61 0.0 20.0 30.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 26.815 ug/l

RT: 12.56 min Scan# 3355

Delta R.T. 0.05 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampled :

056\_BT-1-2

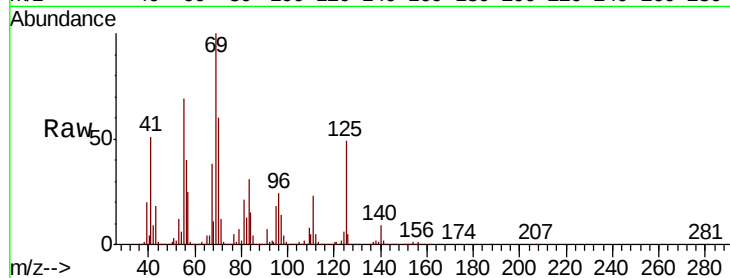
Tot Ion: 83 Resp: 355781

Ion Ratio Lower Upper

83 100

131 0.1 5.2 15.6#

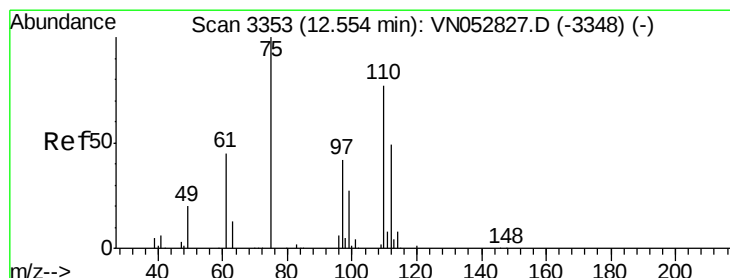
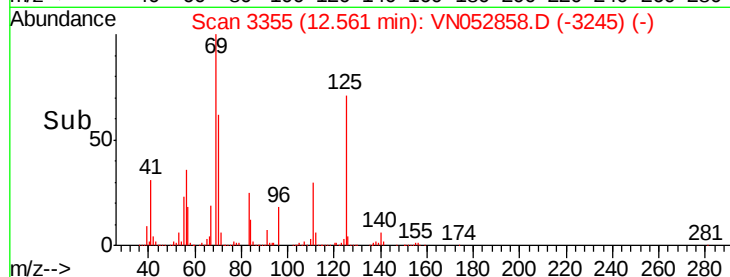
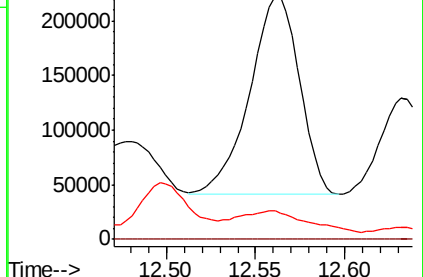
85 13.9 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 1.694 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.04 min

Lab File: VN052858.D

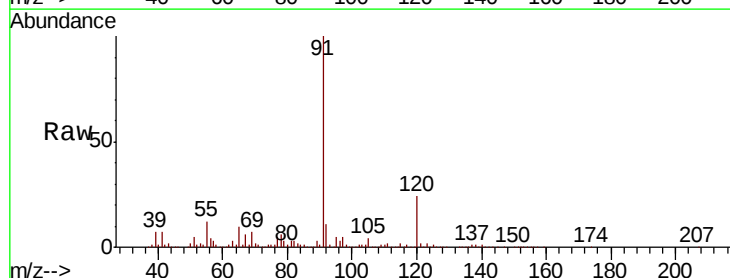
Acq: 13 Dec 2018 12:27

Tgt Ion: 75 Resp: 19812

Ion Ratio Lower Upper

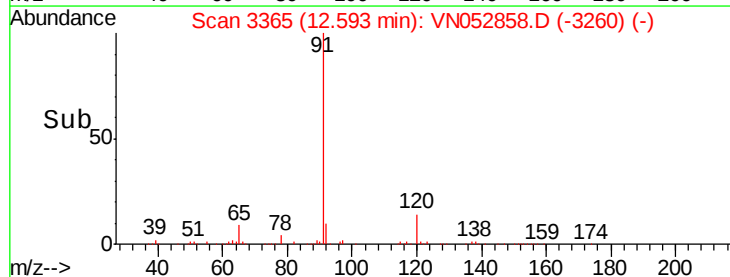
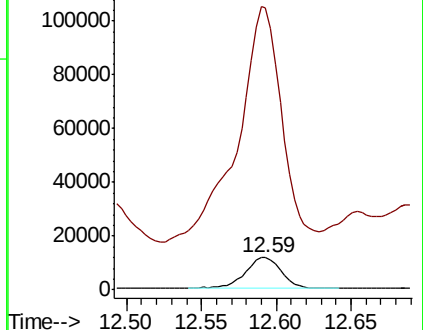
75 100

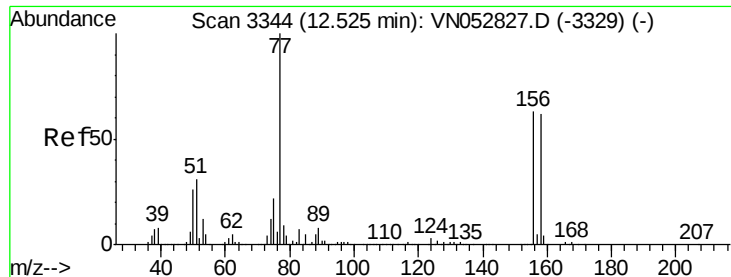
77 913.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 1.253 ug/l

RT: 12.55 min Scan# 3352

Delta R.T. 0.03 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampled :

056\_BT-1-2

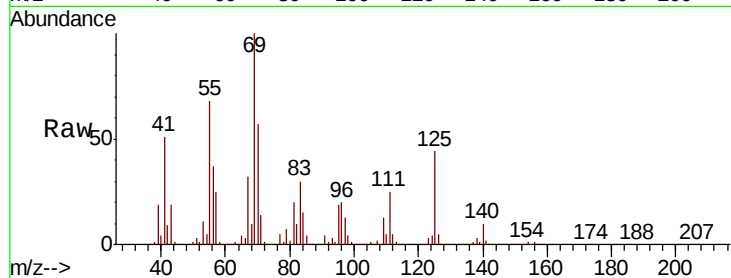
Tot Ion:156 Resp: 18874

Ion Ratio Lower Upper

156 100

77 0.0 91.3 273.8#

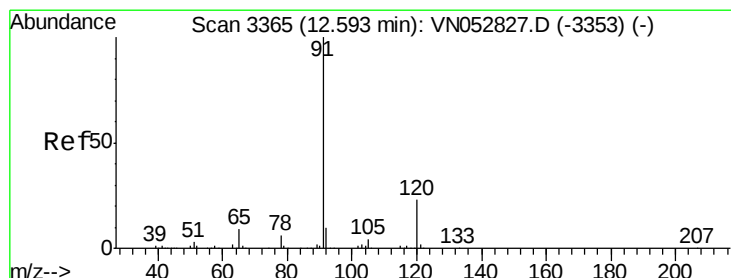
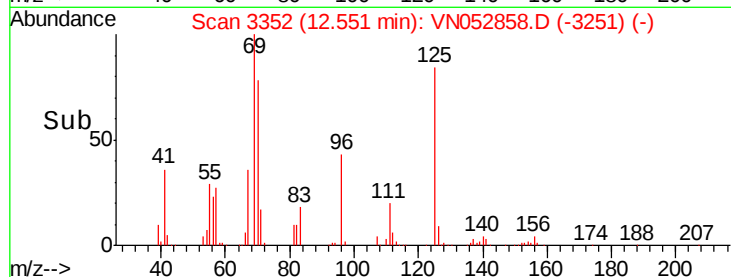
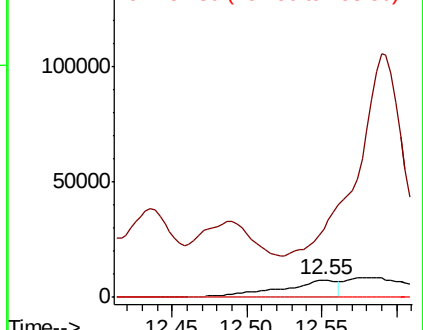
158 0.0 49.0 147.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 53.287 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN052858.D

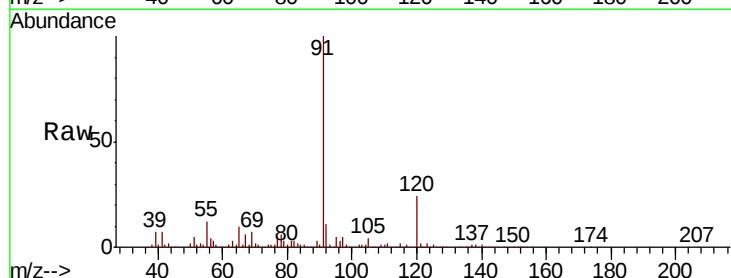
Acq: 13 Dec 2018 12:27

Tgt Ion: 91 Resp: 3597823

Ion Ratio Lower Upper

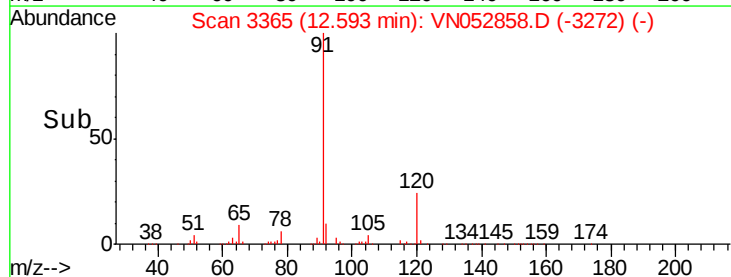
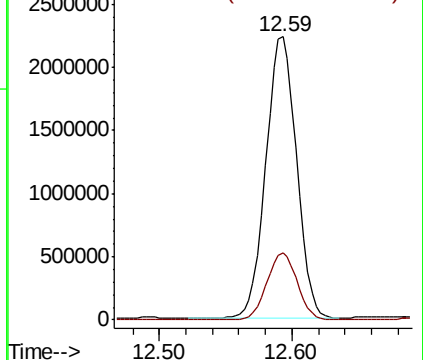
91 100

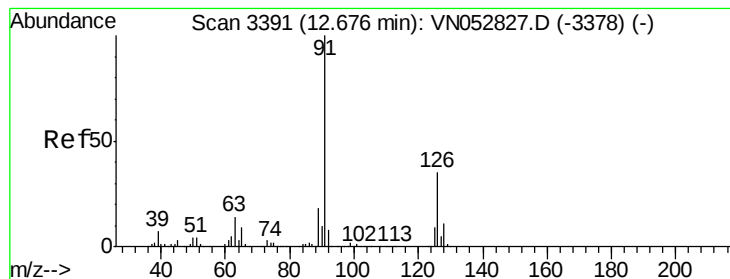
120 23.4 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 90.136 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.08 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampleId :

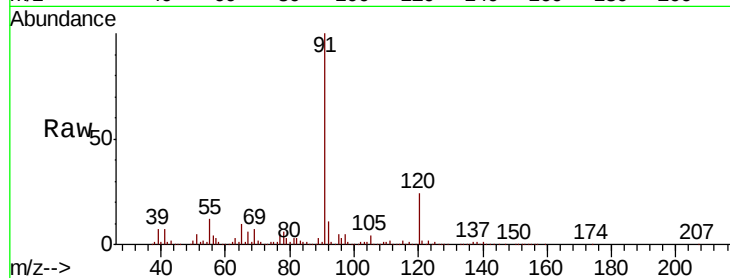
056\_BT-1-2

Tot Ion: 91 Resp: 3597823

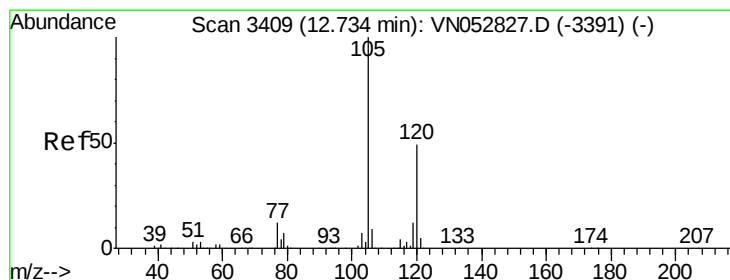
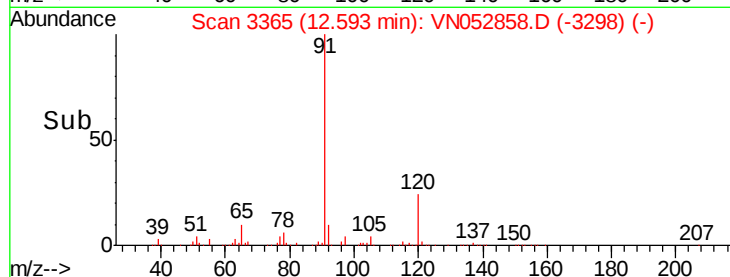
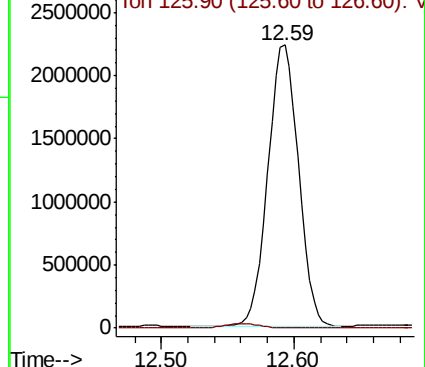
Ion Ratio Lower Upper

91 100

126 0.0 17.4 52.3#



Abundance Ion 91.00 (90.70 to 91.70): VN052827.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 5.951 ug/l

RT: 12.89 min Scan# 3458

Delta R.T. 0.16 min

Lab File: VN052858.D

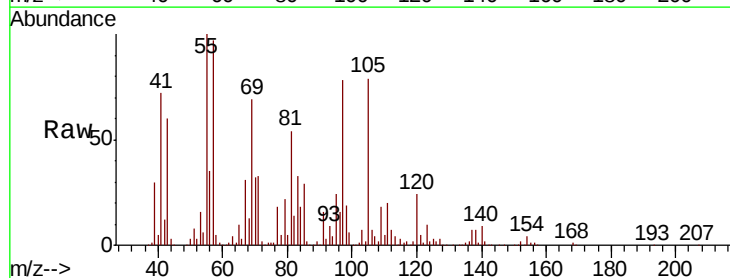
Acq: 13 Dec 2018 12:27

Tgt Ion: 105 Resp: 284397

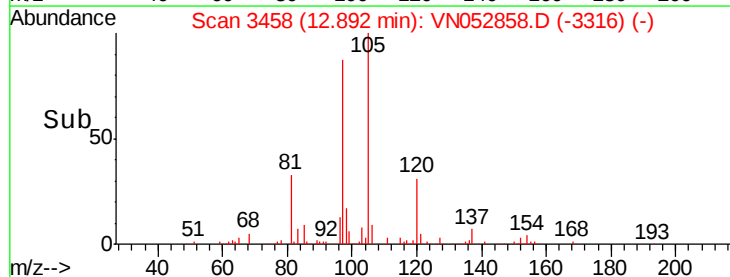
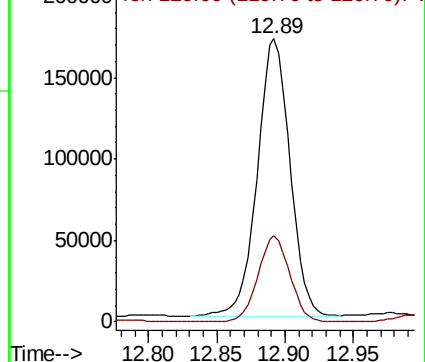
Ion Ratio Lower Upper

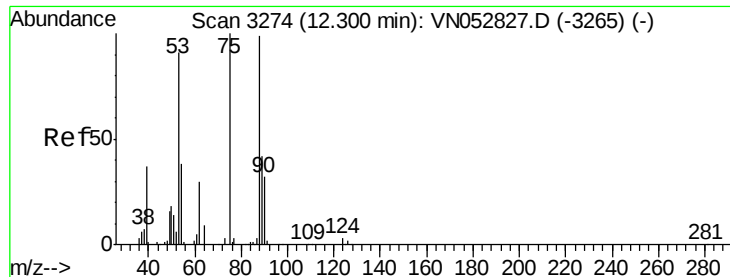
105 100

120 29.7 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052827.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 4.404 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.05 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampled :

056\_BT-1-2

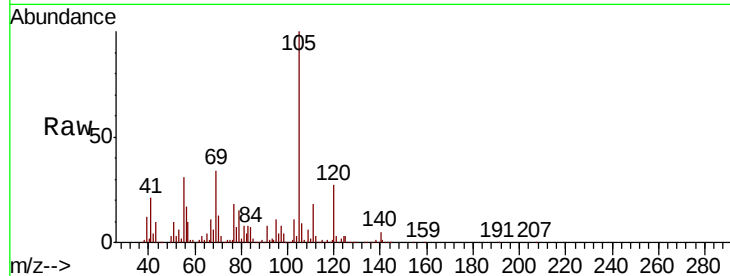
Tot Ion: 75 Resp: 16037

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

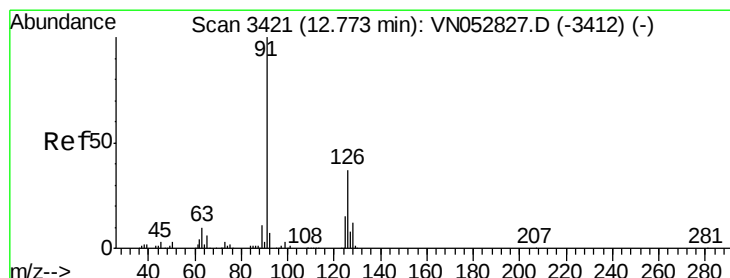
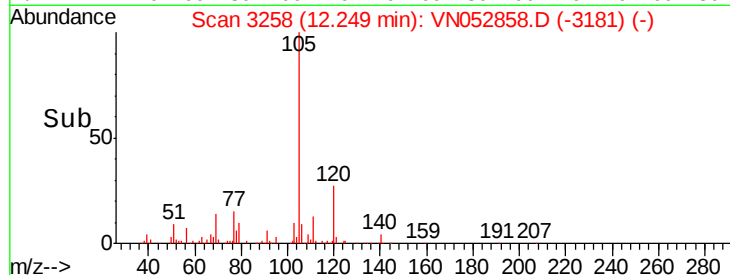
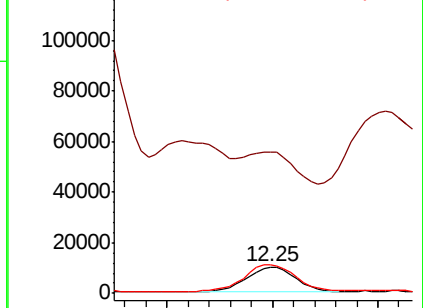
89 121.1 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 88.158 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.18 min

Lab File: VN052858.D

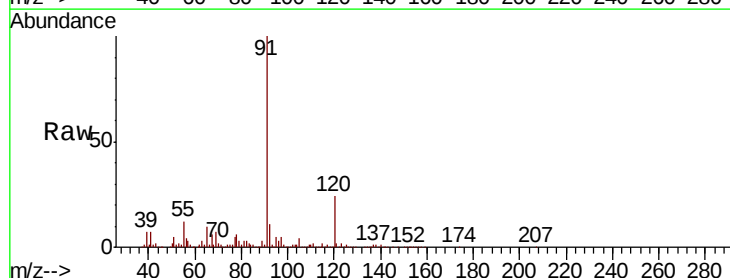
Acq: 13 Dec 2018 12:27

Tgt Ion: 91 Resp: 3597823

Ion Ratio Lower Upper

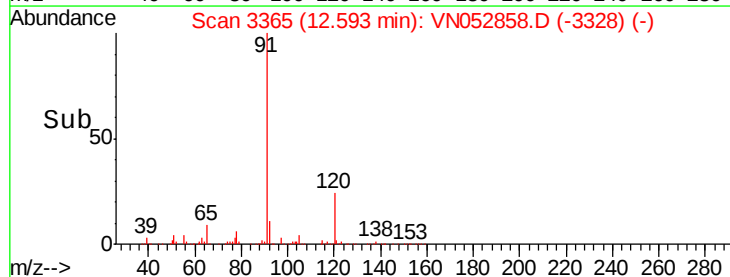
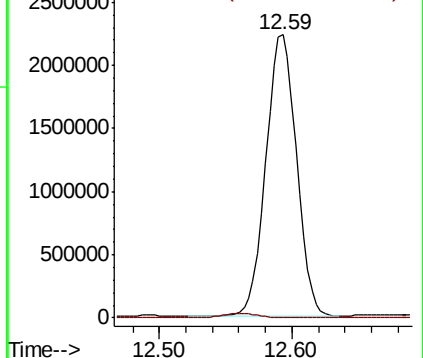
91 100

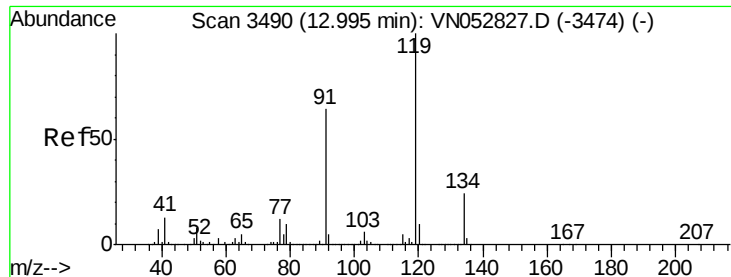
126 0.0 17.3 51.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

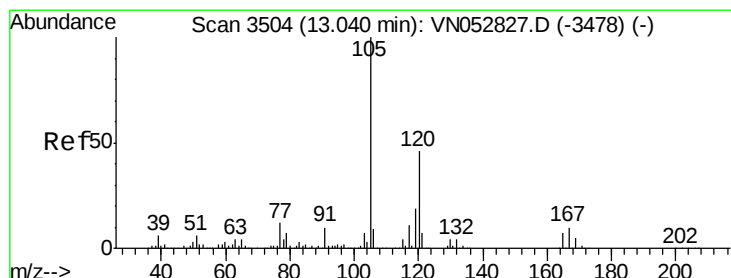
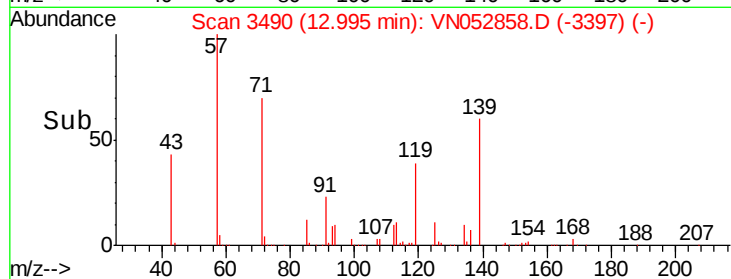
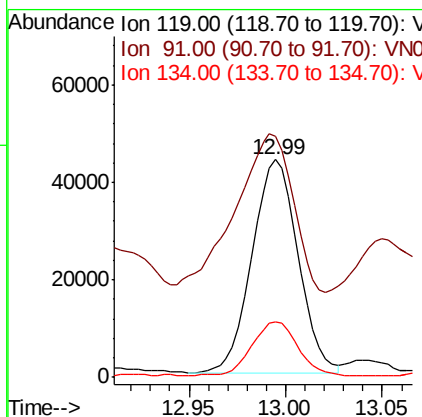
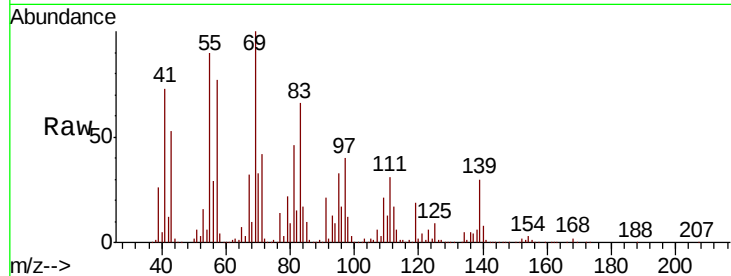




#83  
 tert-Butylbenzene  
 Concen: 1.712 ug/l  
 RT: 12.99 min Scan# 3490  
 Delta R.T. 0.00 min  
 Lab File: VN052858.D  
 Acq: 13 Dec 2018 12:27

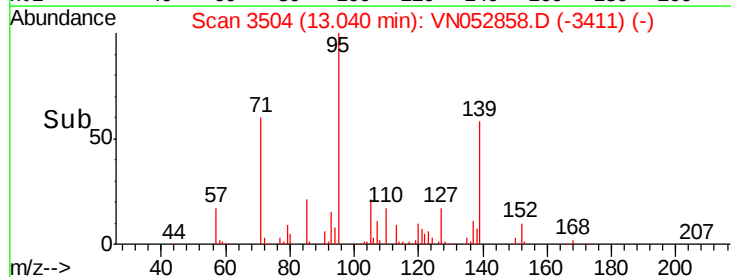
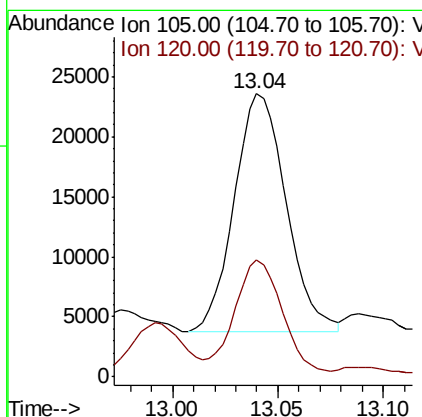
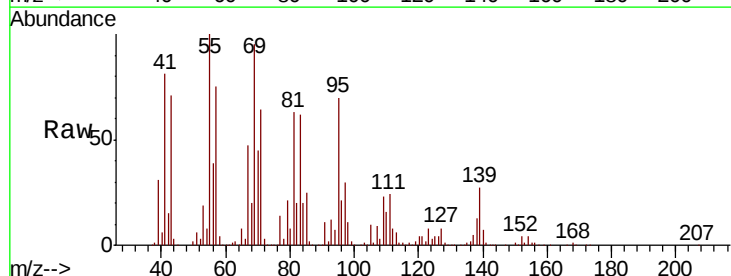
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 056\_BT-1-2

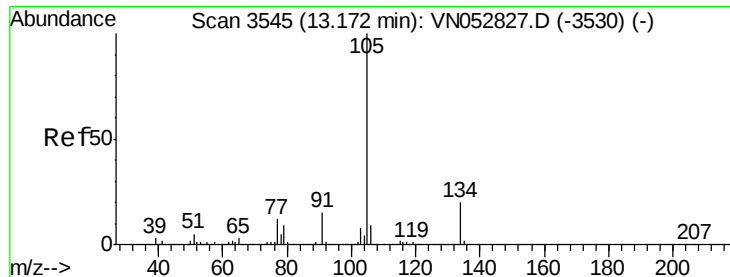
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 119   | Resp: | 72165 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 93.5  | 31.9  | 95.5  |
| 134      | 25.2  | 12.8  | 38.4  |



#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.702 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. 0.00 min  
 Lab File: VN052858.D  
 Acq: 13 Dec 2018 12:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 33943 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 41.9  | 22.9  | 68.8  |





#85

sec-Butylbenzene

Concen: 15.389 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampleId :

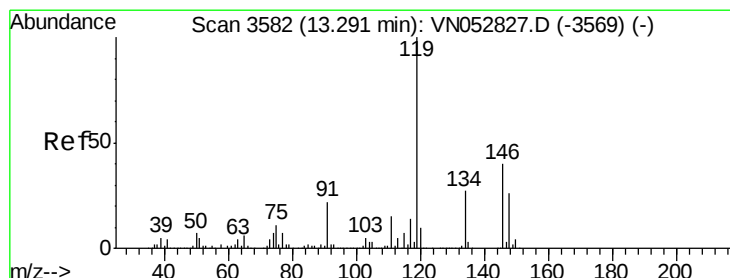
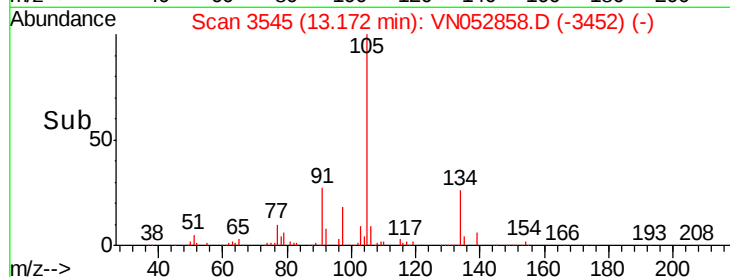
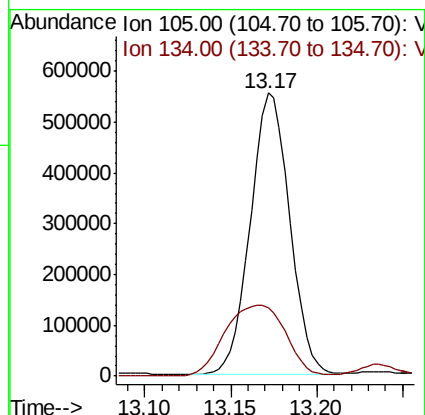
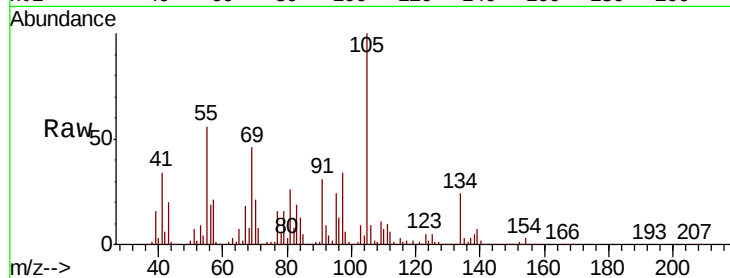
056\_BT-1-2

Tot Ion:105 Resp: 878590

Ion Ratio Lower Upper

105 100

134 39.0 10.1 30.3#



#86

p-Isopropyltoluene

Concen: 2.399 ug/l

RT: 13.24 min Scan# 3565

Delta R.T. -0.05 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

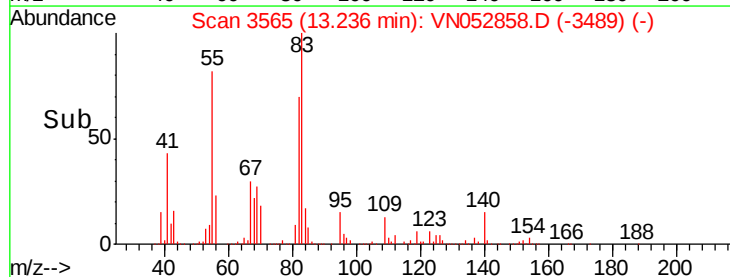
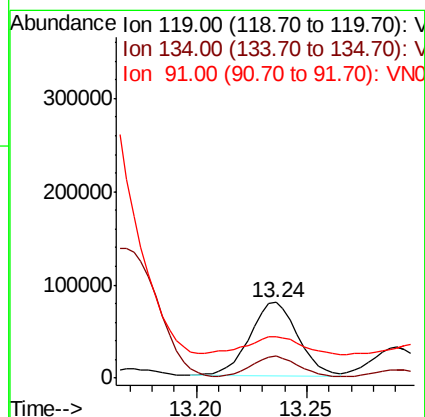
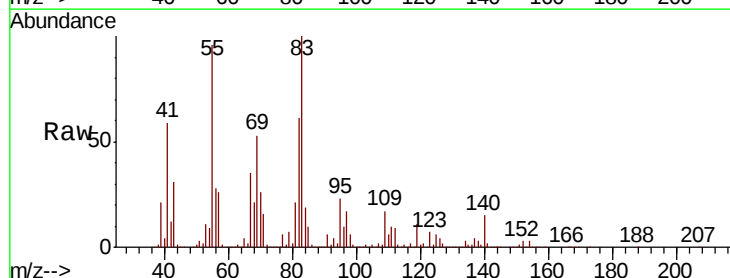
Tgt Ion:119 Resp: 118645

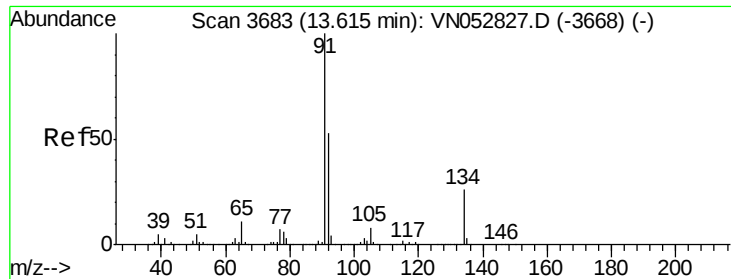
Ion Ratio Lower Upper

119 100

134 27.6 13.4 40.2

91 26.1 11.1 33.3





#89

n-Butylbenzene

Concen: 36.124 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampleId :

056\_BT-1-2

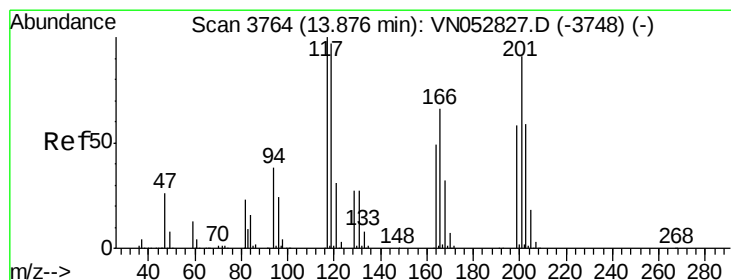
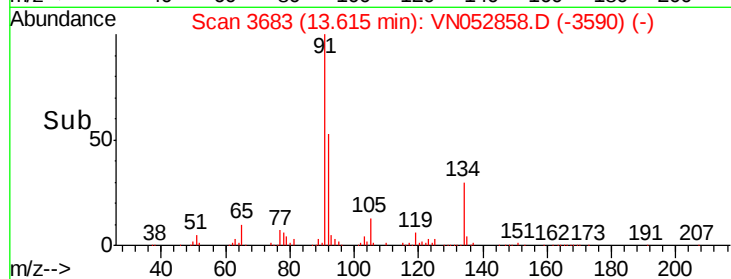
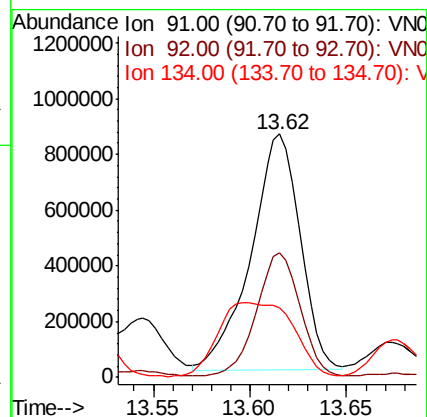
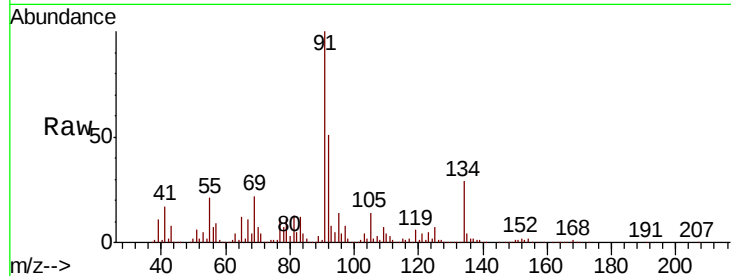
Tot Ion: 91 Resp: 1504201

Ion Ratio Lower Upper

91 100

92 46.1 26.3 78.9

134 47.3 13.3 39.8#



#90

Hexachloroethane

Concen: 70.819 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.01 min

Lab File: VN052858.D

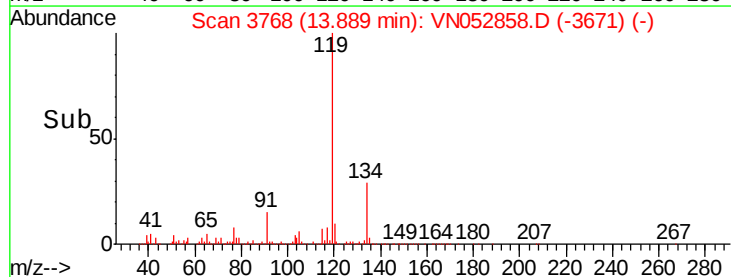
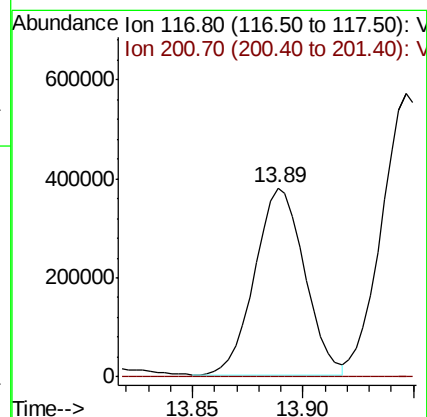
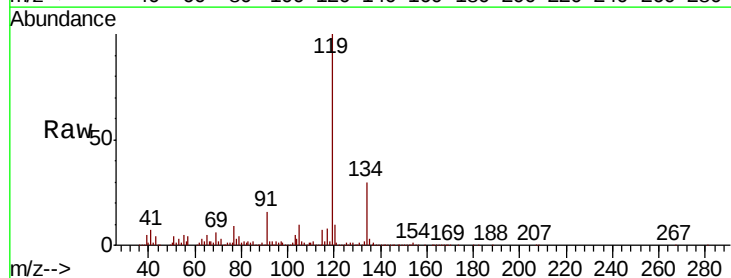
Acq: 13 Dec 2018 12:27

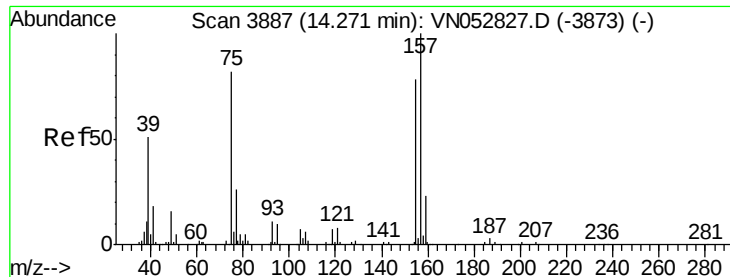
Tgt Ion: 117 Resp: 586564

Ion Ratio Lower Upper

117 100

201 0.0 45.7 137.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 6.825 ug/l

RT: 14.29 min Scan# 3894

Delta R.T. 0.02 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

Instrument :

MSVOA\_N

ClientSampleId :

056\_BT-1-2

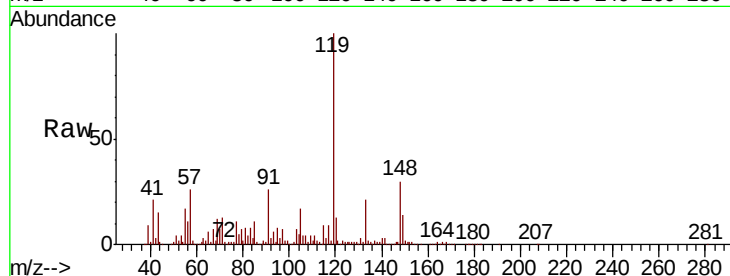
Tot Ion: 75 Resp: 13650

Ion Ratio Lower Upper

75 100

155 10.3 48.2 144.6#

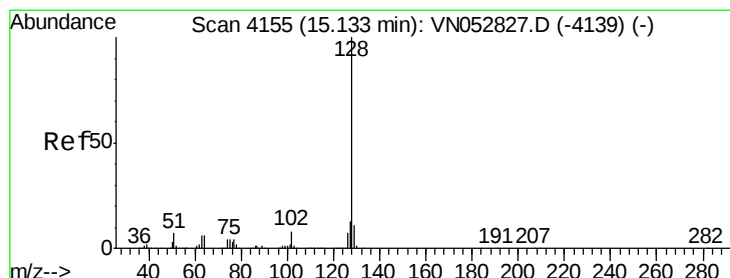
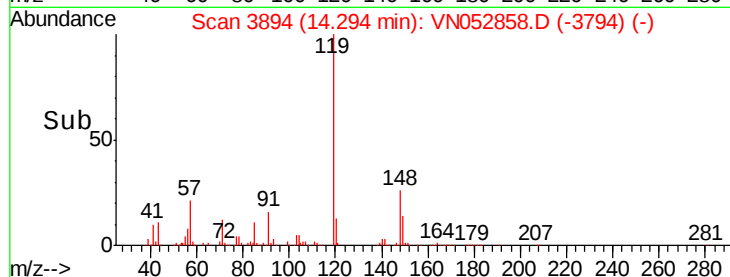
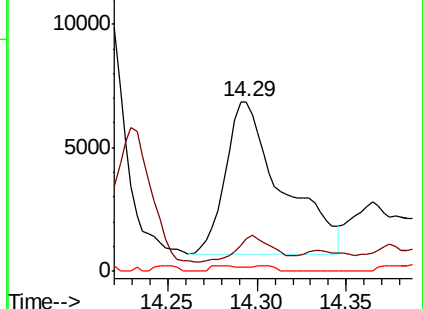
157 1.8 61.2 183.5#



Abundance Ion 74.90 (74.60 to 75.60): VN052827.D (-3873) (-)

Ion 154.80 (154.50 to 155.50): VN052827.D (-3873) (-)

Ion 156.80 (156.50 to 157.50): VN052827.D (-3873) (-)



#95

Naphthalene

Concen: 2.460 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. -0.03 min

Lab File: VN052858.D

Acq: 13 Dec 2018 12:27

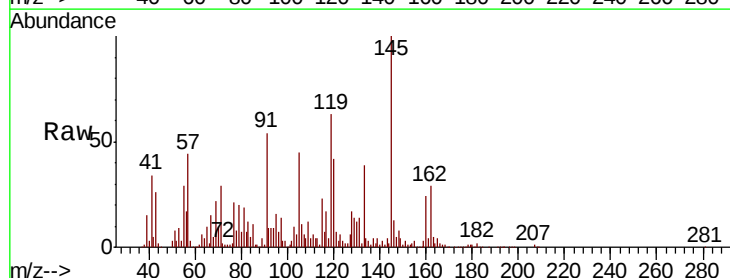
Tgt Ion: 128 Resp: 71274

Ion Ratio Lower Upper

128 100

127 30.7 10.2 15.4#

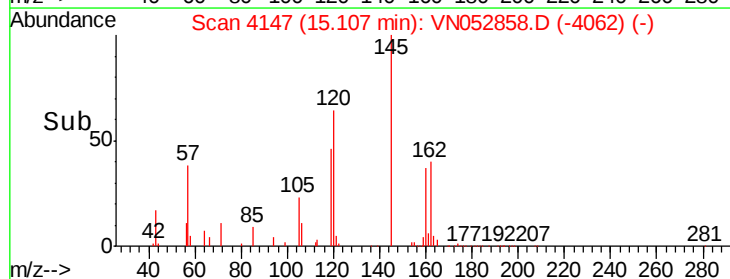
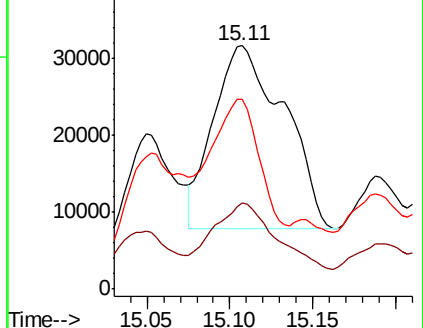
129 41.7 8.6 13.0#

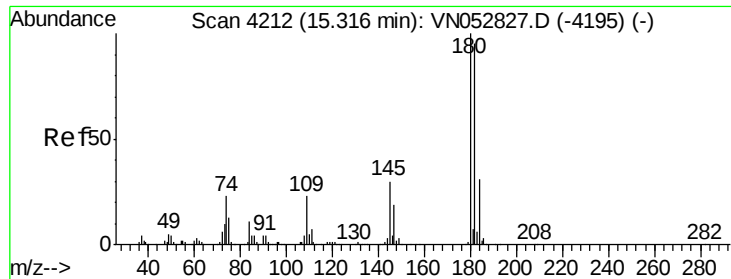


Abundance Ion 128.00 (127.70 to 128.70): VN052827.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN052827.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN052827.D (-4139) (-)

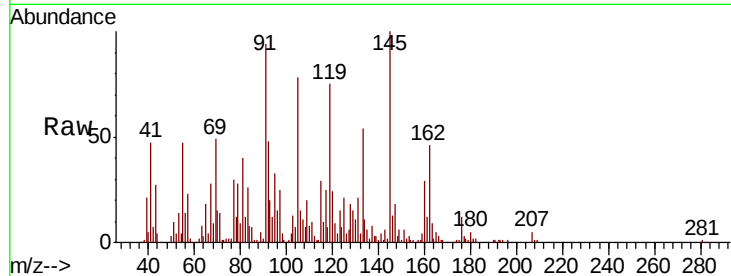




#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.256 ug/l  
 RT: 15.34 min Scan# 4219  
 Delta R.T. 0.02 min  
 Lab File: VN052858.D  
 Acq: 13 Dec 2018 12:27

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 056\_BT-1-2

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 0.0   | 47.9  | 143.7# |
| 145     | 0.0   | 15.0  | 45.0#  |



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

