

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\  
 Data File : VN056173.D  
 Acq On : 10 Jun 2019 16:38  
 Operator : JC/SP  
 Sample : K3280-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-HN-MW271-20190608

Quant Time: Jun 11 02:21:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 04 11:02:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 316905   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 476338   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 448383   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 128733   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 164565   | 52.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.60% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 151796   | 51.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.88% |          |
| 50) Toluene-d8              | 10.09 | 98   | 599280   | 53.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.58% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 179059   | 46.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.64%  |          |

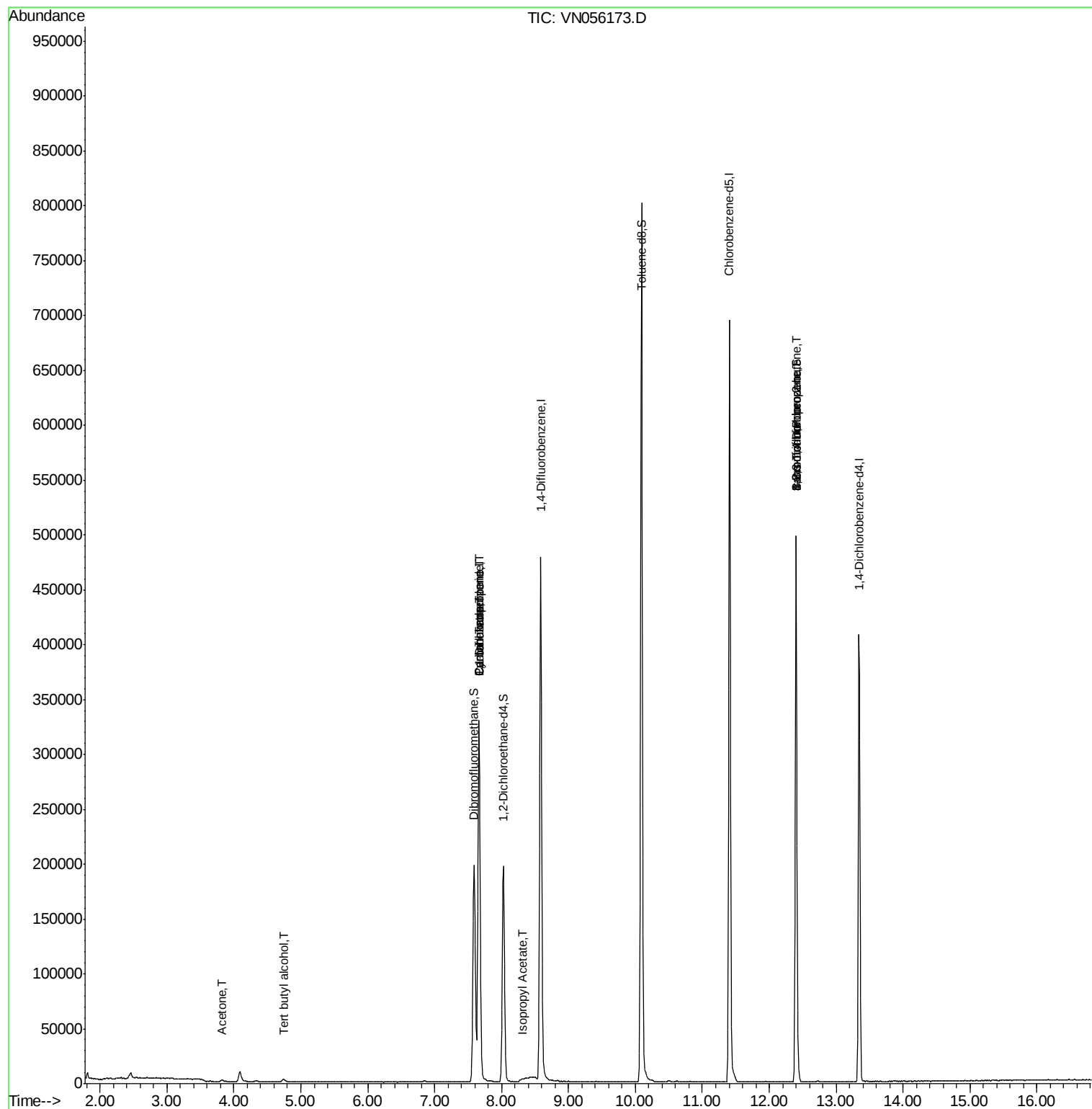
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.74  | 59   | 2258     | 4.124     | ug/l # | 74     |
| 16) Acetone                    | 3.82  | 43   | 3024     | 2.009     | ug/l   | 97     |
| 18) Methyl Acetate             | 4.33  | 43   | 1669     | Below Cal | #      | 55     |
| 31) Cyclohexane                | 7.67  | 56   | 4476     | 0.896     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 17575    | 4.291     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 25182    | 6.669     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 8.31  | 43   | 2379     | 0.403     | ug/l # | 53     |
| 71) Bromoform                  | 12.40 | 173  | 1535     | 3.303     | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.40 | 105  | 30       | Below Cal | #      | 48     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 81153    | 34.260    | ug/l # | 100    |
| 79) 2-Chlorotoluene            | 12.40 | 91   | 527      | Below Cal | #      | 39     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 81153    | 114.092   | ug/l # | 15     |

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

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Quant Title : SW846 8260  
QLast Update : Tue Jun 04 11:02:09 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056173.D

Acq: 10 Jun 2019 16:38

Instrument :

MSVOA\_N

ClientSampleId :

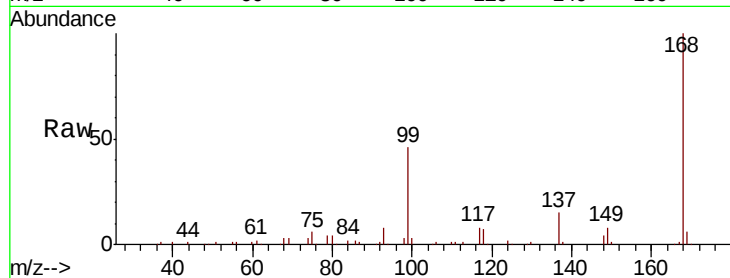
BP-HN-MW271-20190608

Tot Ion:168 Resp: 316905

Ion Ratio Lower Upper

168 100

99 45.6 37.2 55.8



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

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

7.66

150000

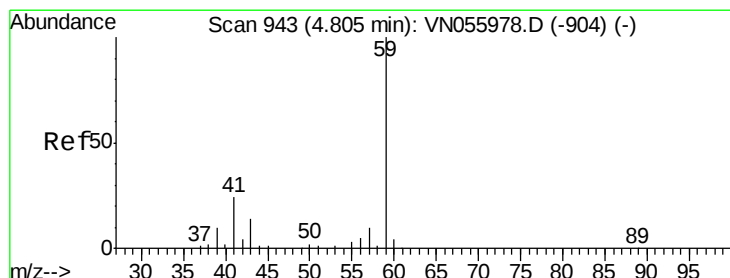
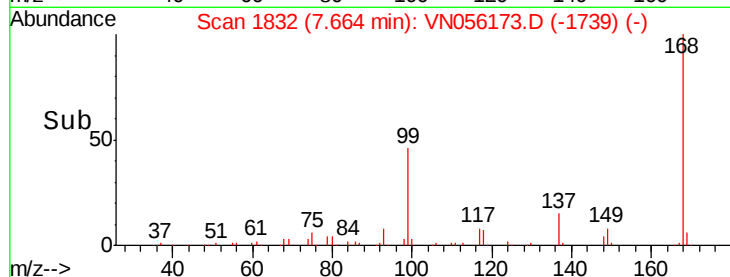
100000

50000

0

7.50 7.60 7.70 7.80 7.90

Time-->



#11

Tert butyl alcohol

Concen: 4.124 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.06 min

Lab File: VN056173.D

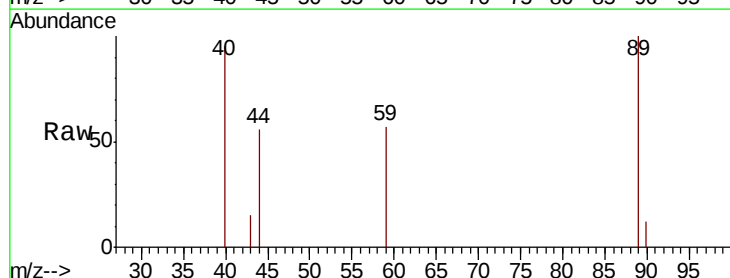
Acq: 10 Jun 2019 16:38

Tgt Ion: 59 Resp: 2258

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055978.D (-904) (-)

Ion 57.00 (56.70 to 57.70): VN055978.D (-904) (-)

4.74

800

600

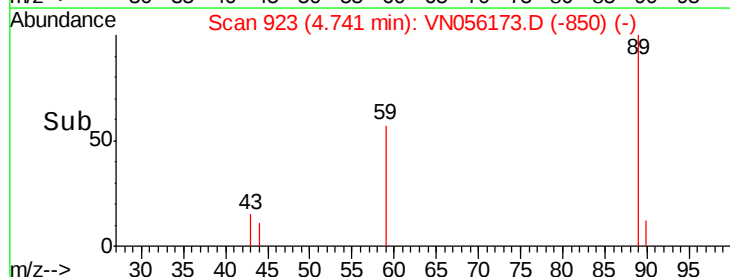
400

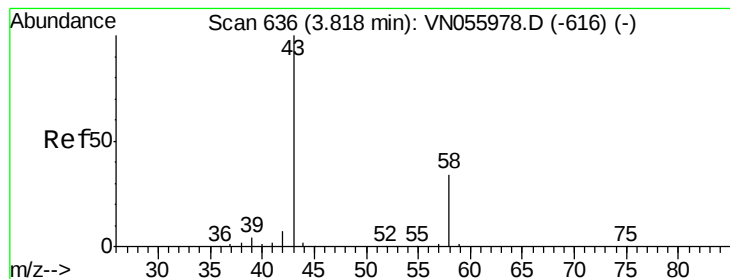
200

0

4.65 4.70 4.75 4.80

Time-->





#16

Acetone

Concen: 2.009 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056173.D

Acq: 10 Jun 2019 16:38

Instrument :

MSVOA\_N

ClientSampleId :

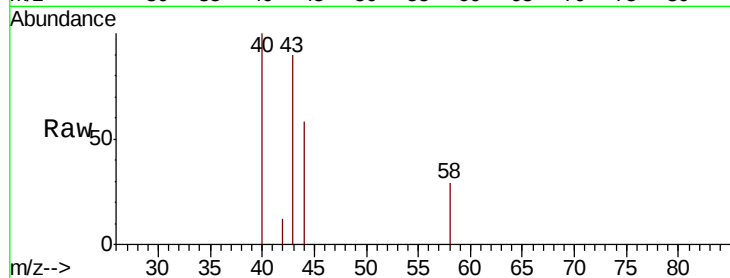
BP-HN-MW271-20190608

Tot Ion: 43 Resp: 3024

Ion Ratio Lower Upper

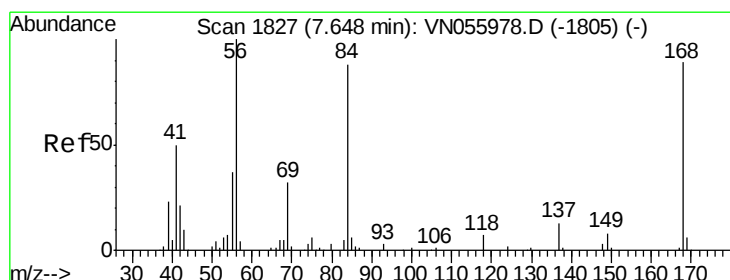
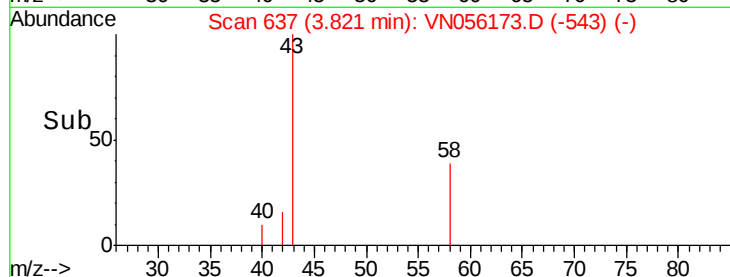
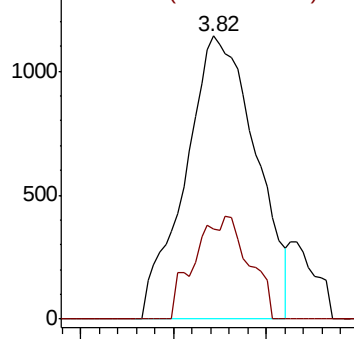
43 100

58 31.7 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#31

Cyclohexane

Concen: 0.896 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN056173.D

Acq: 10 Jun 2019 16:38

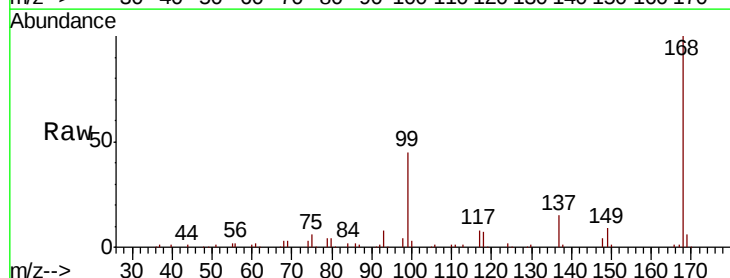
Tgt Ion: 56 Resp: 4476

Ion Ratio Lower Upper

56 100

69 180.7 25.6 38.4#

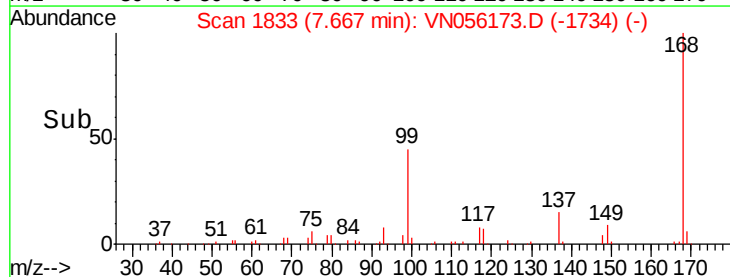
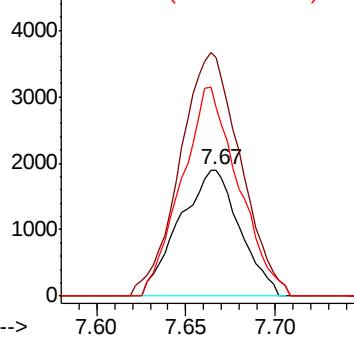
84 149.1 67.4 101.0#

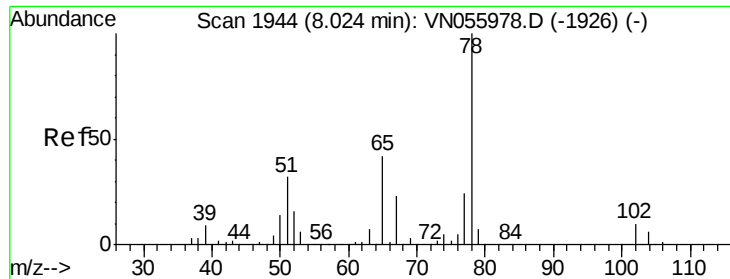


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

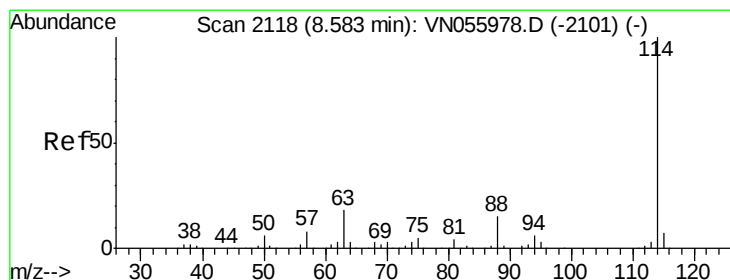
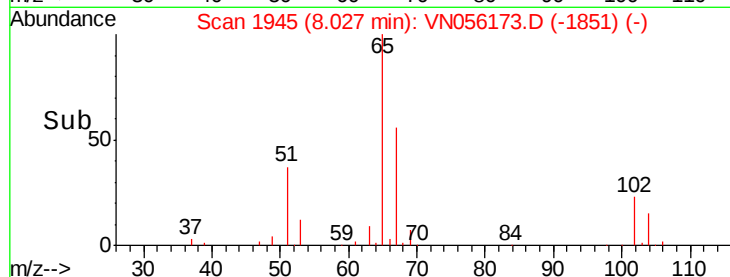
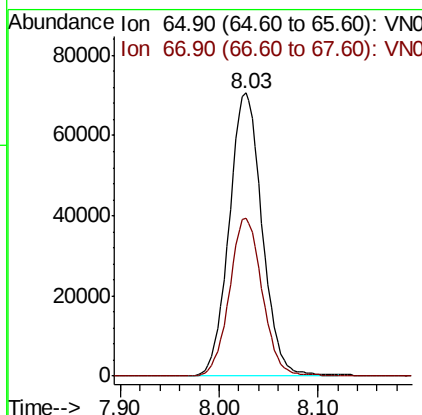
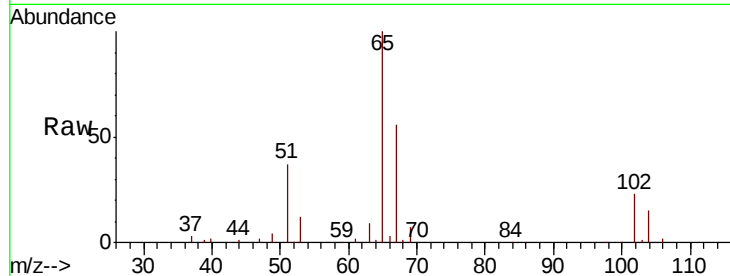




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.299 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN056173.D  
 Acq: 10 Jun 2019 16:38

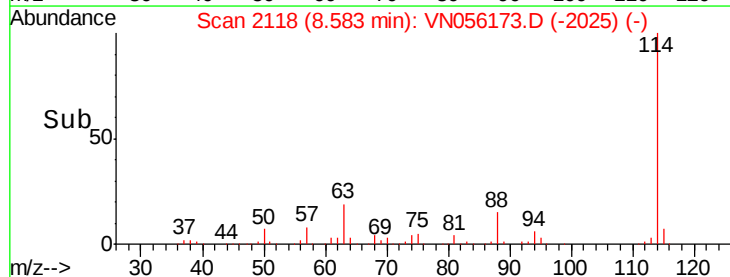
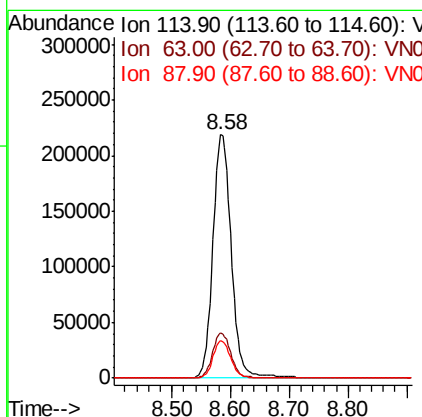
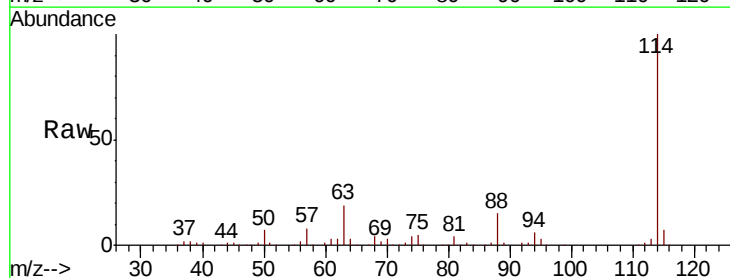
Instrument :  
 MSVOA\_N  
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 BP-HN-MW271-20190608

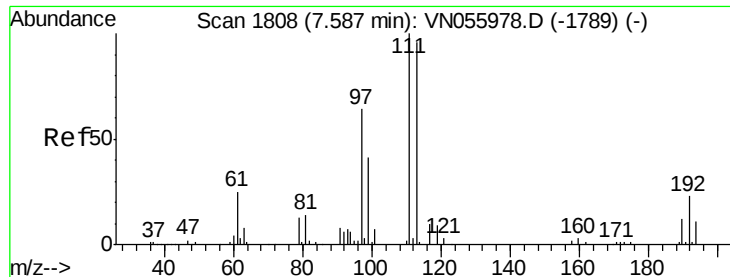
Tot Ion: 65 Resp: 164565  
 Ion Ratio Lower Upper  
 65 100  
 67 55.5 0.0 109.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN056173.D  
 Acq: 10 Jun 2019 16:38

Tgt Ion: 114 Resp: 476338  
 Ion Ratio Lower Upper  
 114 100  
 63 18.6 0.0 39.2  
 88 15.2 0.0 31.0





#35

Dibromofluoromethane

Concen: 51.941 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056173.D

Acq: 10 Jun 2019 16:38

Instrument :

MSVOA\_N

ClientSampleId :

BP-HN-MW271-20190608

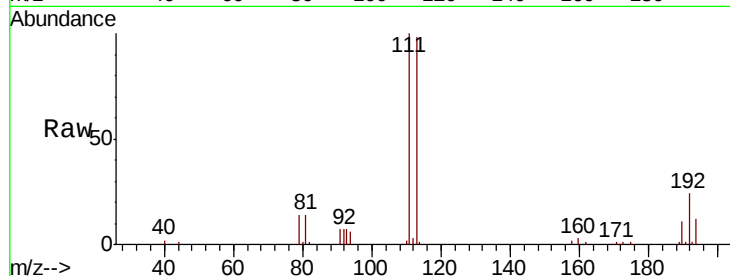
Tot Ion:113 Resp: 151796

Ion Ratio Lower Upper

113 100

111 103.6 81.9 122.9

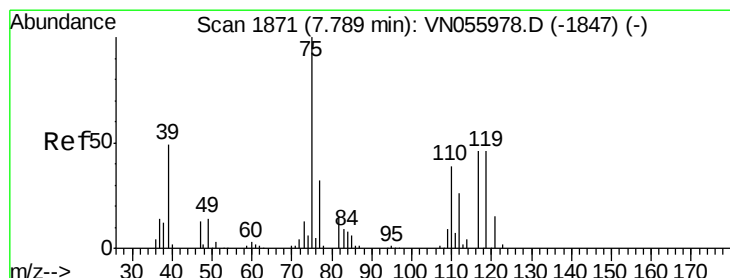
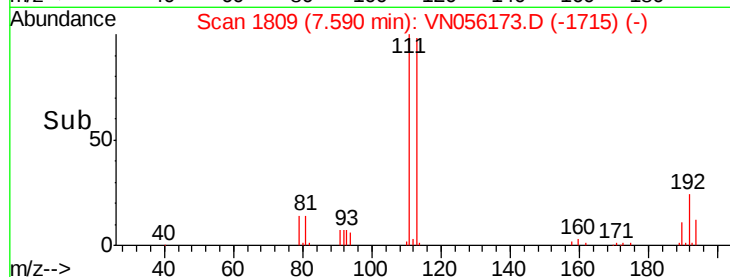
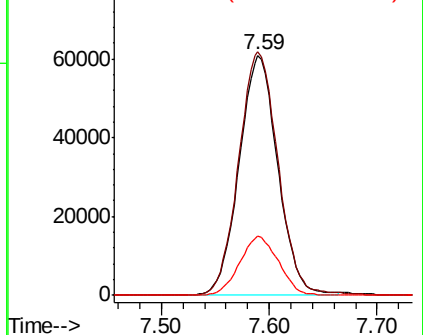
192 24.7 19.5 29.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.291 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056173.D

Acq: 10 Jun 2019 16:38

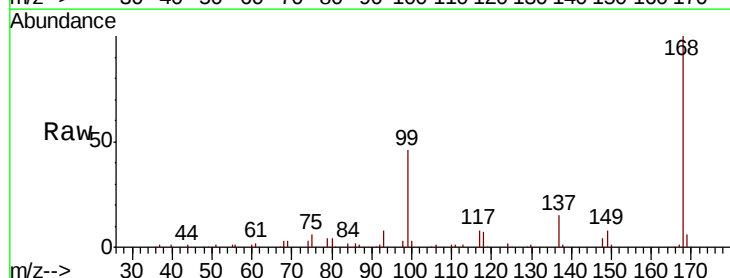
Tgt Ion: 75 Resp: 17575

Ion Ratio Lower Upper

75 100

110 10.5 19.0 57.0#

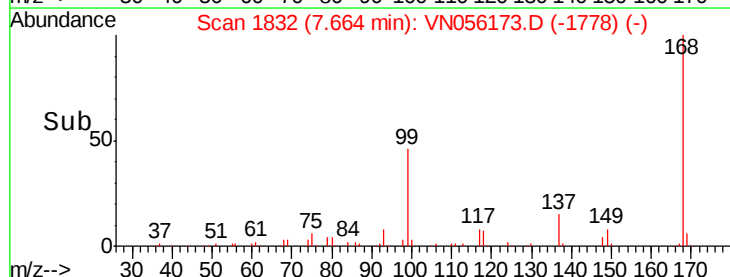
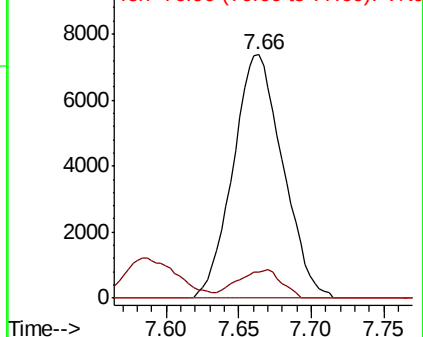
77 0.0 25.1 37.7#

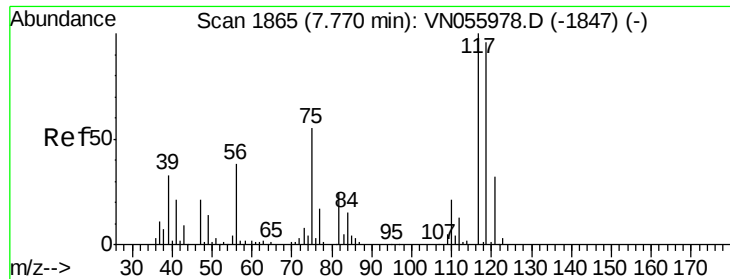


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.669 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056173.D

Acq: 10 Jun 2019 16:38

Instrument :

MSVOA\_N

ClientSampleId :

BP-HN-MW271-20190608

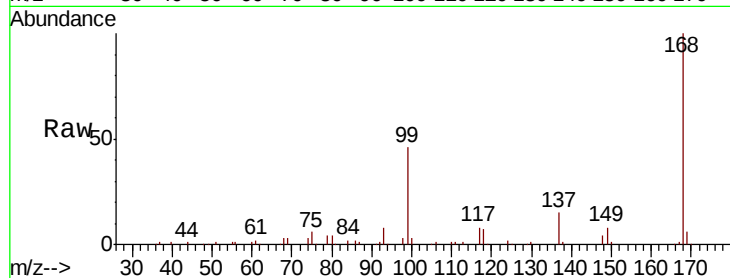
Tot Ion:117 Resp: 25182

Ion Ratio Lower Upper

117 100

119 5.4 79.0 118.6#

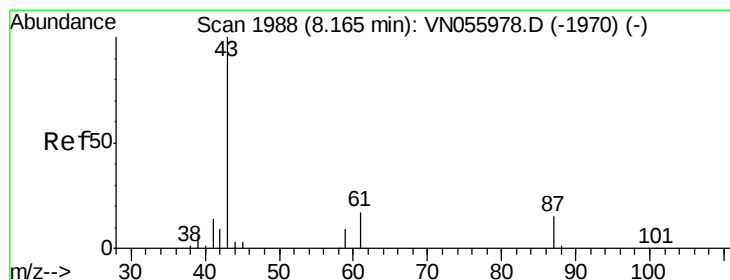
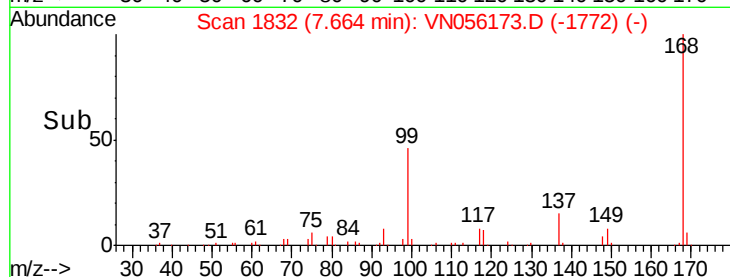
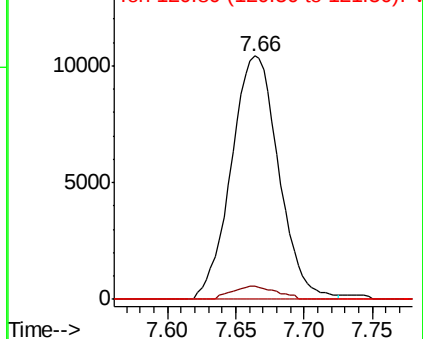
121 0.0 24.7 37.1#



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



#43

Isopropyl Acetate

Concen: 0.403 ug/l

RT: 8.31 min Scan# 2032

Delta R.T. 0.14 min

Lab File: VN056173.D

Acq: 10 Jun 2019 16:38

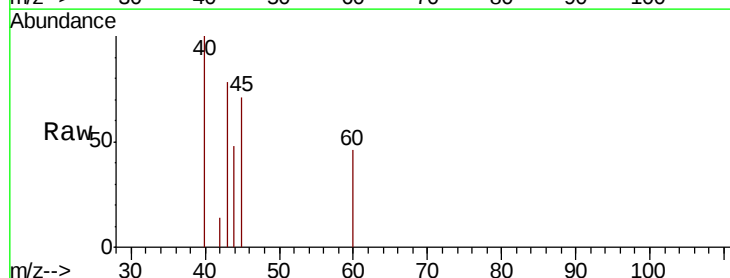
Tgt Ion: 43 Resp: 2379

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

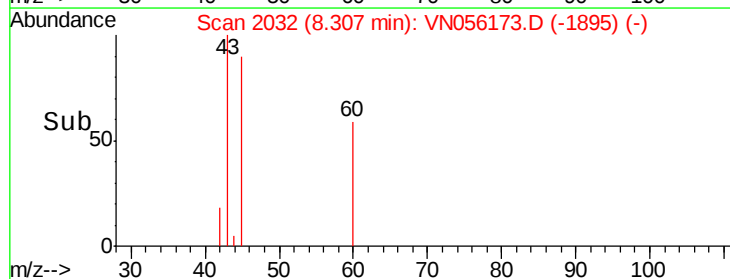
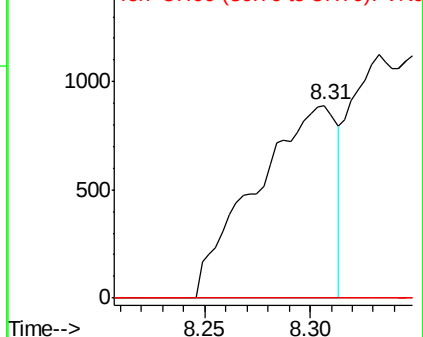
87 0.0 11.4 17.2#

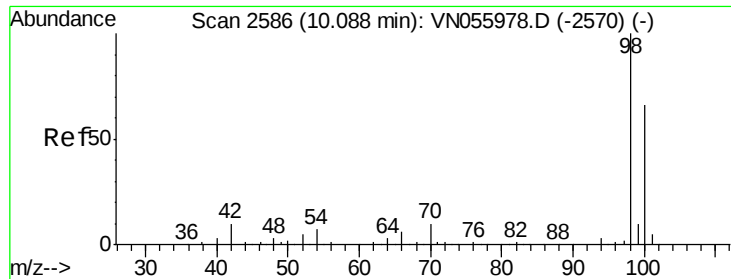


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 53.289 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056173.D

Acq: 10 Jun 2019 16:38

Instrument :

MSVOA\_N

ClientSampleId :

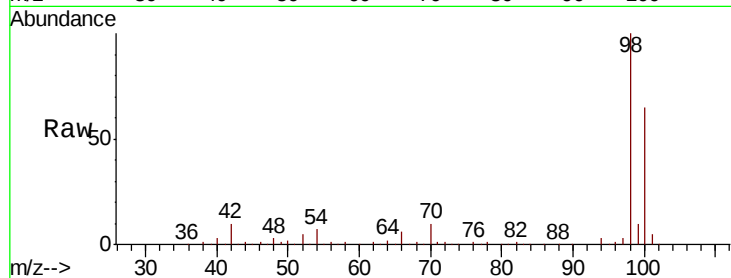
BP-HN-MW271-20190608

Tot Ion: 98 Resp: 599280

Ion Ratio Lower Upper

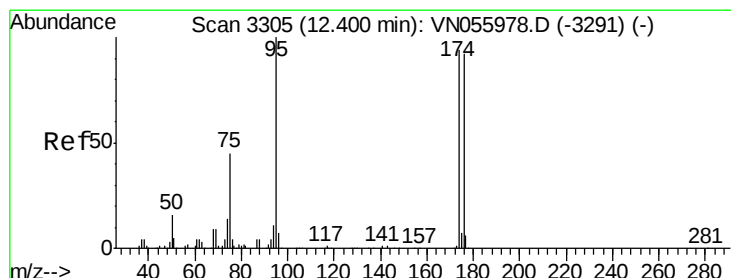
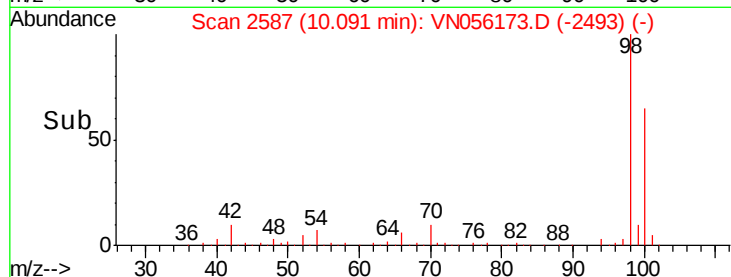
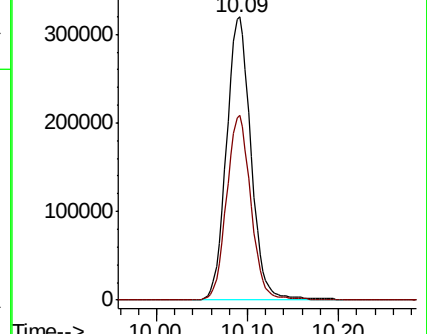
98 100

100 65.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: 46.820 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056173.D

Acq: 10 Jun 2019 16:38

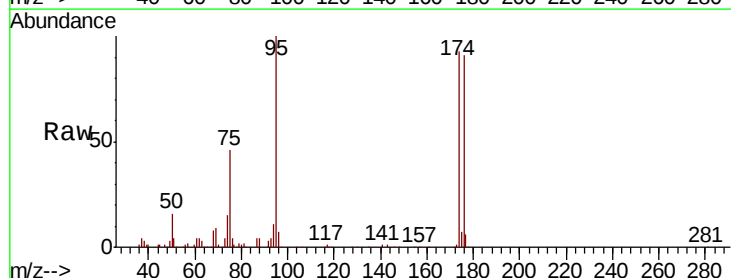
Tgt Ion: 95 Resp: 179059

Ion Ratio Lower Upper

95 100

174 95.1 0.0 191.0

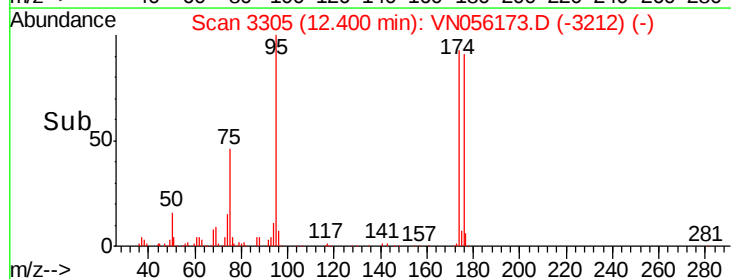
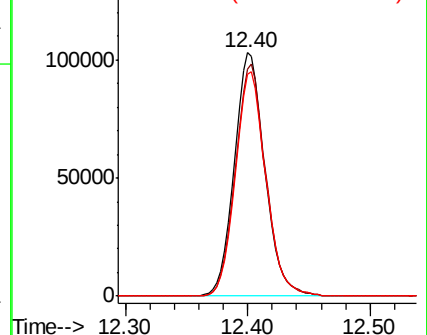
176 92.3 0.0 185.2

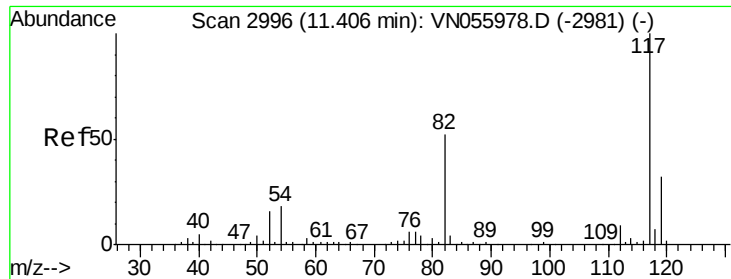


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

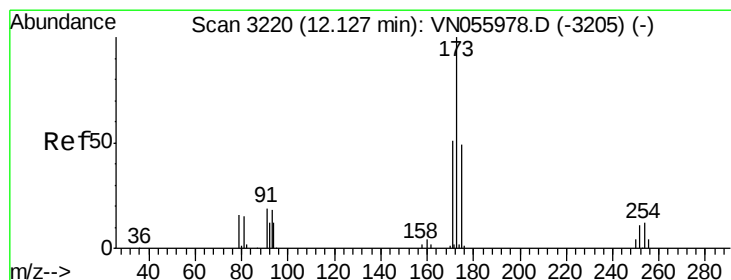
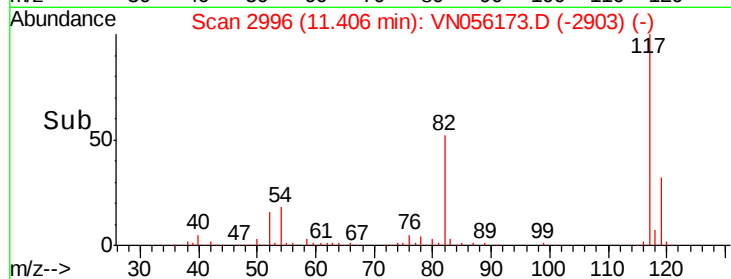
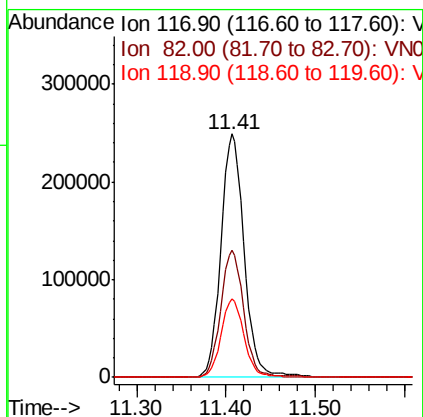
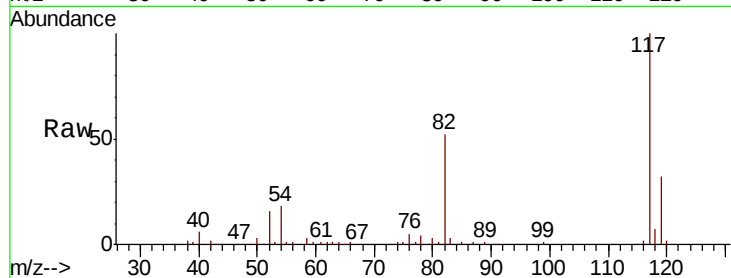




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN056173.D  
Acq: 10 Jun 2019 16:38

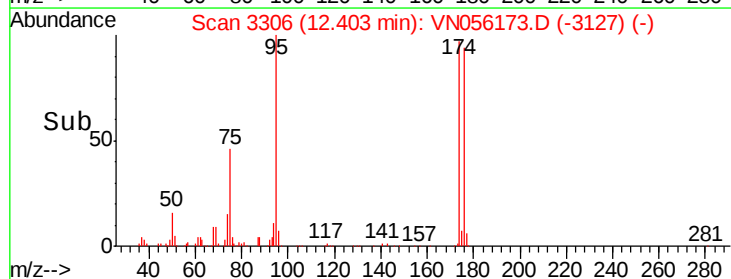
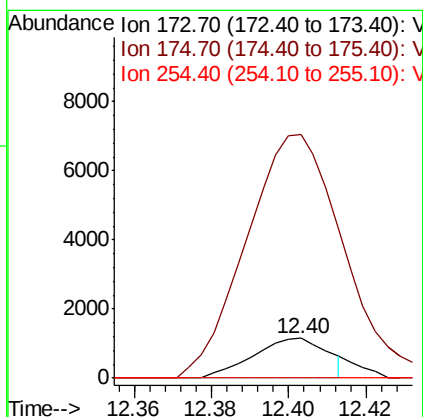
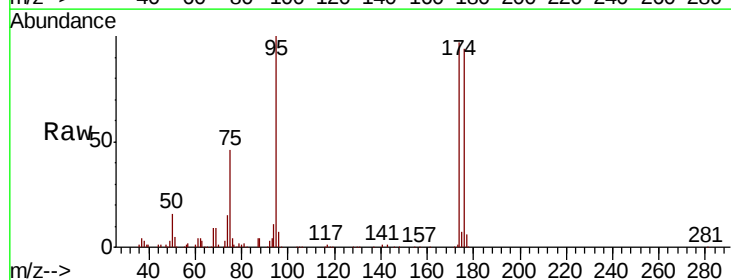
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-HN-MW271-20190608

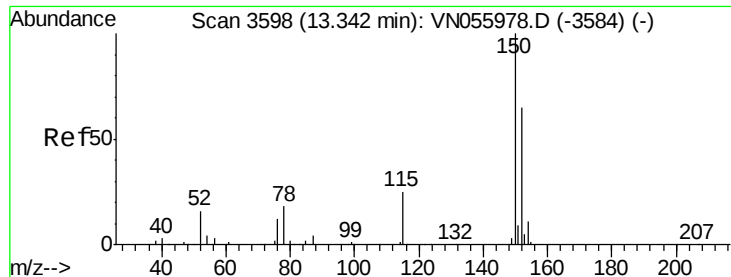
Tot Ion:117 Resp: 448383  
Ion Ratio Lower Upper  
117 100  
82 52.4 41.8 62.8  
119 32.4 25.4 38.0



#71  
Bromoform  
Concen: 3.303 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.28 min  
Lab File: VN056173.D  
Acq: 10 Jun 2019 16:38

Tgt Ion:173 Resp: 1535  
Ion Ratio Lower Upper  
173 100  
175 687.0 24.3 72.8#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN056173.D

Acq: 10 Jun 2019 16:38

Instrument :

MSVOA\_N

ClientSampleId :

BP-HN-MW271-20190608

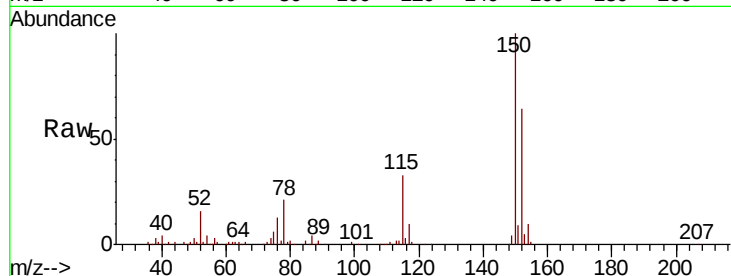
Tot Ion:152 Resp: 128733

Ion Ratio Lower Upper

152 100

115 51.5 27.0 81.0

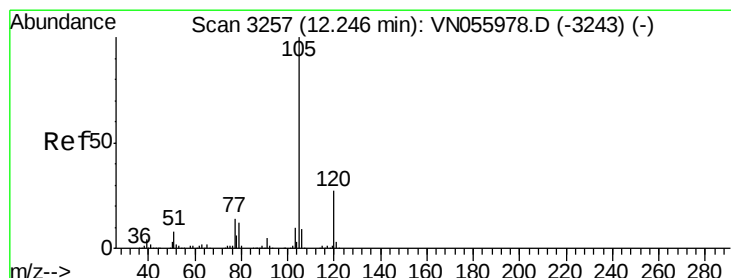
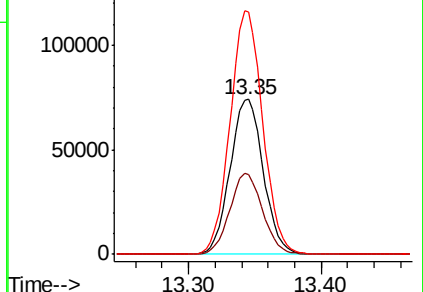
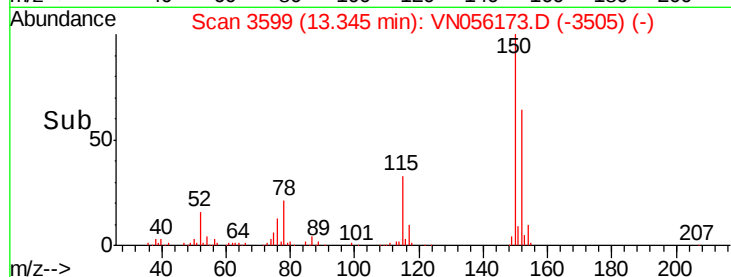
150 154.6 0.0 343.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. 0.16 min

Lab File: VN056173.D

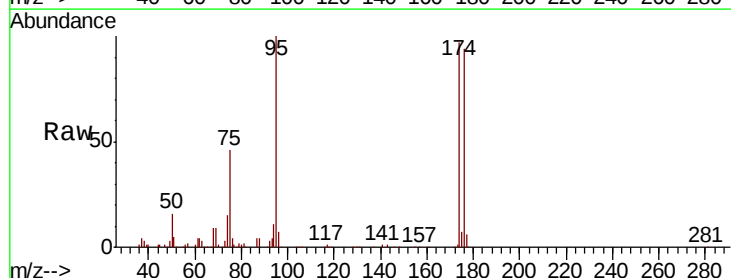
Acq: 10 Jun 2019 16:38

Tgt Ion:105 Resp: 30

Ion Ratio Lower Upper

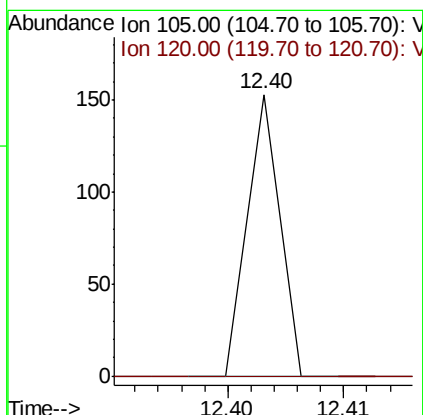
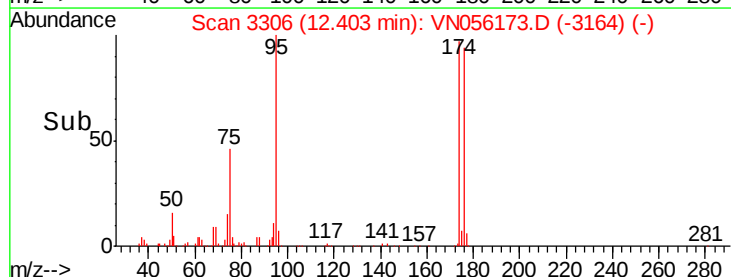
105 100

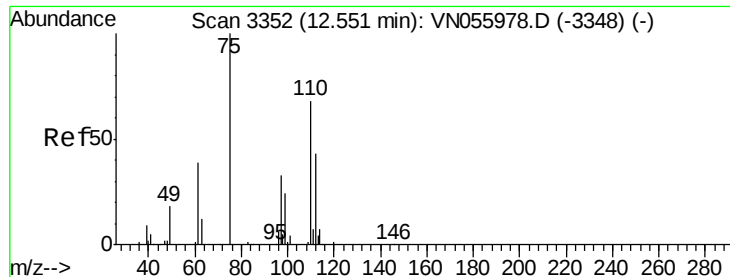
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 34.260 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056173.D

Acq: 10 Jun 2019 16:38

Instrument :

MSVOA\_N

ClientSampleId :

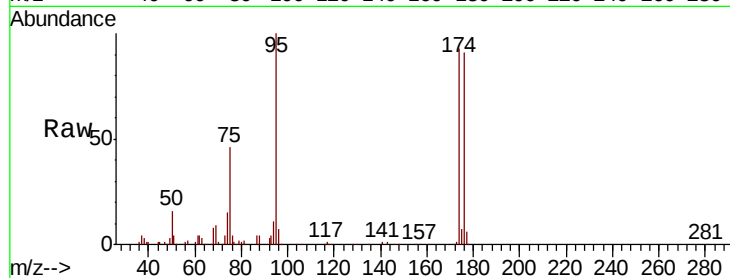
BP-HN-MW271-20190608

Tot Ion: 75 Resp: 81153

Ion Ratio Lower Upper

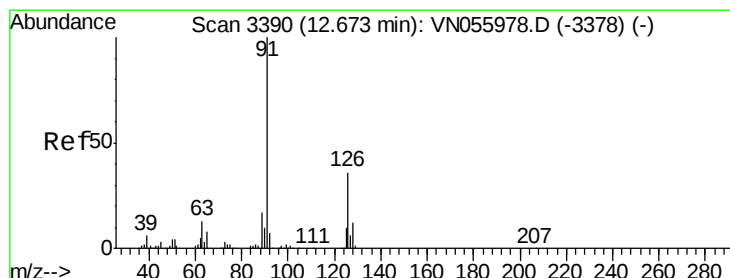
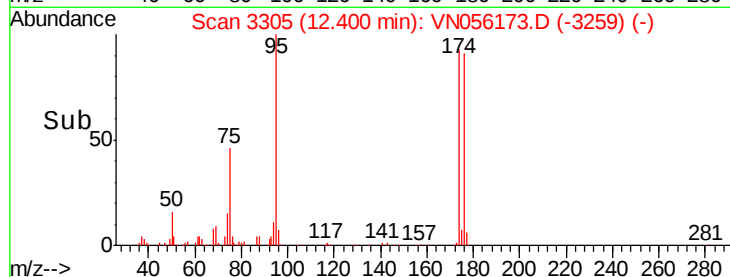
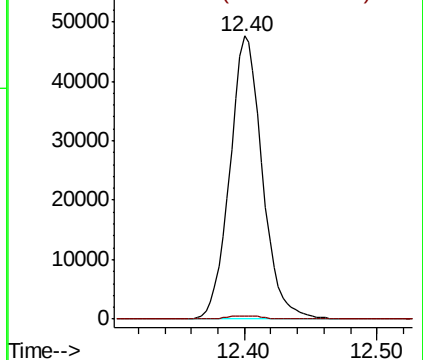
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056173.D

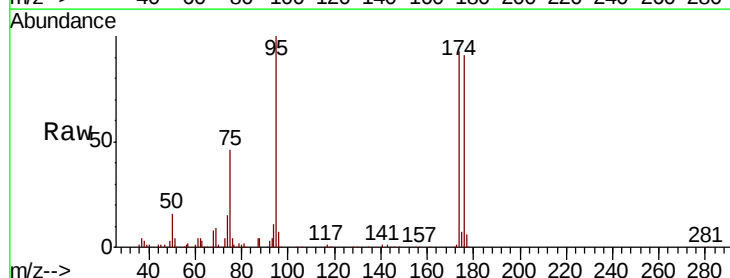
Acq: 10 Jun 2019 16:38

Tgt Ion: 91 Resp: 527

Ion Ratio Lower Upper

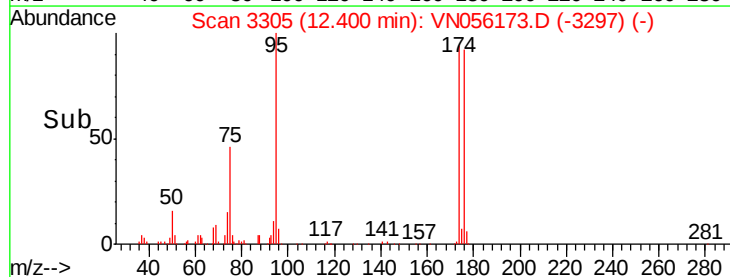
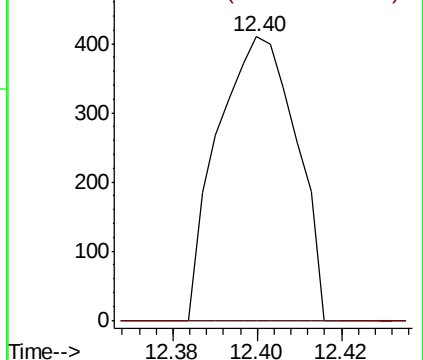
91 100

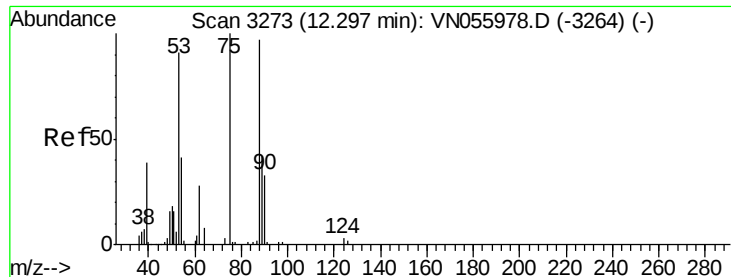
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 114.092 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056173.D

Acq: 10 Jun 2019 16:38

Instrument :

MSVOA\_N

ClientSampleId :

BP-HN-MW271-20190608

Tot Ion: 75 Resp: 81153

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#

