

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090718\  
 Data File : VN051057.D  
 Acq On : 7 Sep 2018 16:40  
 Operator : MD\SY  
 Sample : J4693-15 5X  
 Misc : 5.51g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EP1-MW-D(10-15)

Quant Time: Sep 07 23:14:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N082118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 22 05:38:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 659187   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 996173   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 991568   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 538506   | 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   | 391289   | 49.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.62%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 374144   | 47.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.42%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1516136  | 51.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.34% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 845219   | 85.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 171.68% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 3) Chloromethane               | 2.05  | 50   | 2748     | 0.25   | ug/l  | # 82   |
| 5) Bromomethane                | 2.53  | 94   | 3010     | Below  | Cal   | # 89   |
| 10) Methyl Iodide              | 3.95  | 142  | 1002     | 6.46   | ug/l  | # 69   |
| 11) Tert butyl alcohol         | 4.75  | 59   | 1132     | 2.24   | ug/l  | # 72   |
| 13) Acrolein                   | 3.61  | 56   | 65       | 18.12  | ug/l  | # 14   |
| 16) Acetone                    | 3.83  | 43   | 1081     | Below  | Cal   | # 88   |
| 18) Methyl Acetate             | 4.33  | 43   | 3657     | 0.49   | ug/l  | # 71   |
| 20) Methylene Chloride         | 4.55  | 84   | 2771     | 0.31   | ug/l  | # 79   |
| 29) Tetrahydrofuran            | 7.22  | 42   | 372      | 0.20   | ug/l  | # 33   |
| 31) Cyclohexane                | 7.67  | 56   | 10397    | 1.23   | ug/l  | # 1    |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 43175    | 3.67   | ug/l  | # 49   |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 58014    | 4.88   | ug/l  | # 16   |
| 39) Methylcyclohexane          | 9.08  | 83   | 22531    | 1.77   | ug/l  | # 91   |
| 48) Methyl methacrylate        | 9.14  | 41   | 5358     | 0.91   | ug/l  | # 42   |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 117374   | 15.06  | ug/l  | # 20   |
| 56) Ethyl methacrylate         | 10.43 | 69   | 56036    | 7.62   | ug/l  | # 1    |
| 58) 2-Chloroethyl Vinyl ether  | 9.51  | 63   | 64       | 12.23  | ug/l  | # 47   |
| 59) 2-Hexanone                 | 10.72 | 43   | 376355   | 81.60  | ug/l  | # 28   |
| 67) Ethyl Benzene              | 11.51 | 91   | 139321   | 3.31   | ug/l  | # 98   |
| 68) m/p-Xylenes                | 11.63 | 106  | 181643   | 11.36  | ug/l  | # 90   |
| 70) Styrene                    | 11.97 | 104  | 605      | 1.29   | ug/l  | # 1    |
| 73) Isopropylbenzene           | 12.25 | 105  | 1128895  | 25.32  | ug/l  | # 100  |
| 74) N-amyl acetate             | 12.05 | 43   | 3647352  | 325.54 | ug/l  | # 59   |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 312484   | 28.70  | ug/l  | # 26   |
| 76) 1,2,3-Trichloropropane     | 12.59 | 75   | 17338    | 1.84   | ug/l  | # 100  |
| 77) Bromobenzene               | 12.51 | 156  | 7094     | 0.59   | ug/l  | # 1    |
| 78) n-propylbenzene            | 12.59 | 91   | 3102761  | 62.29  | ug/l  | # 99   |
| 79) 2-Chlorotoluene            | 12.66 | 91   | 122927   | 3.96   | ug/l  | # 39   |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 4420183  | 122.85 | ug/l  | # 100  |
| 81) trans-1,4-Dichloro-2-buten | 12.25 | 75   | 12353    | 4.43   | ug/l  | # 7    |
| 82) 4-Chlorotoluene            | 12.73 | 91   | 470120   | 15.35  | ug/l  | # 59   |
| 83) tert-Butylbenzene          | 12.99 | 119  | 258330   | 8.29   | ug/l  | # 88   |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 15453145 | 426.98 | ug/l  | # 92   |
| 85) sec-Butylbenzene           | 13.17 | 105  | 1968951  | 48.22  | ug/l  | # 63   |

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 Sample : J4693-15 5X  
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 ALS Vial : 18 Sample Multiplier: 1

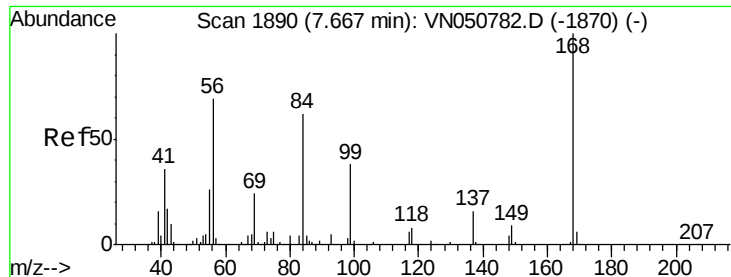
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EP1-MW-D(10-15)

Quant Time: Sep 07 23:14:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N082118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 22 05:38:12 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 86) p-Isopropyltoluene         | 13.29 | 119  | 1766324  | 50.77 | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.62 | 91   | 1485550  | 53.39 | ug/l # | 79       |
| 90) Hexachloroethane           | 13.89 | 117  | 250580   | 37.84 | ug/l # | 4        |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 8848     | 5.53  | ug/l # | 1        |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 422      | 4.12  | ug/l # | 1        |
| 95) Naphthalene                | 15.14 | 128  | 1507     | 5.46  | ug/l # | 69       |
| 96) 1,2,3-Trichlorobenzene     | 15.32 | 180  | 145      | 3.31  | ug/l # | 1        |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

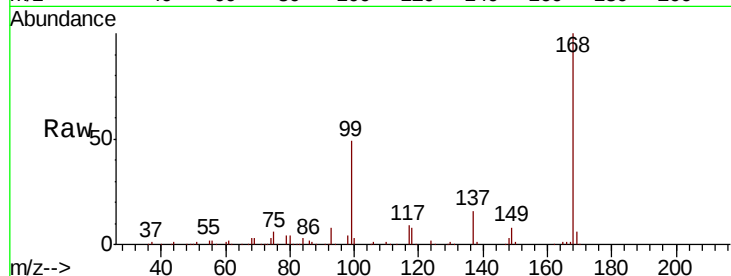
EP1-MW-D(10-15)

Tot Ion:168 Resp: 659187

Ion Ratio Lower Upper

168 100

99 49.1 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN051057.D

Ion 98.90 (98.60 to 99.60): VN051057.D

7.67

300000

250000

200000

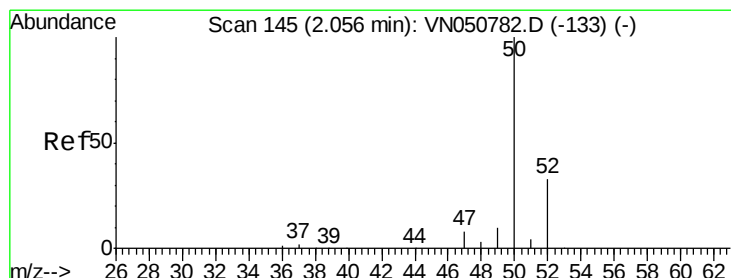
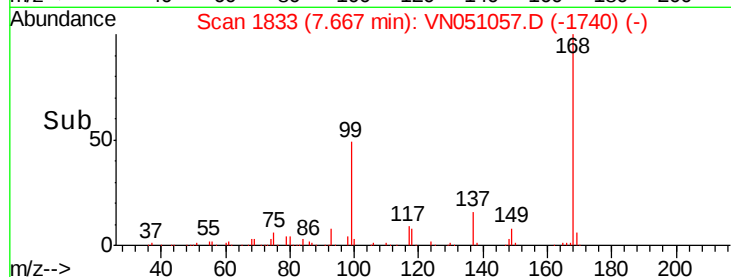
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.25 ug/l

RT: 2.05 min Scan# 87

Delta R.T. -0.00 min

Lab File: VN051057.D

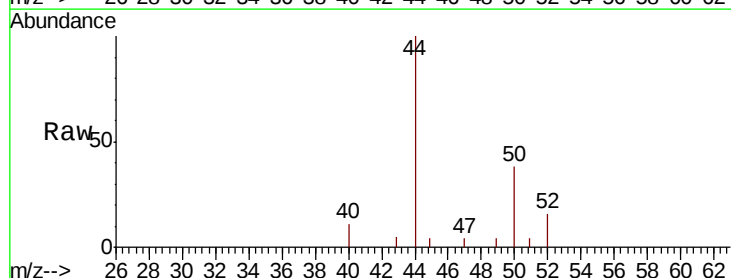
Acq: 7 Sep 2018 16:40

Tgt Ion: 50 Resp: 2748

Ion Ratio Lower Upper

50 100

52 43.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN051057.D

Ion 51.90 (51.60 to 52.60): VN051057.D

2000

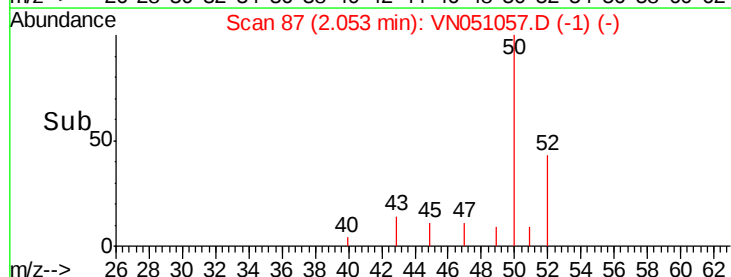
1500

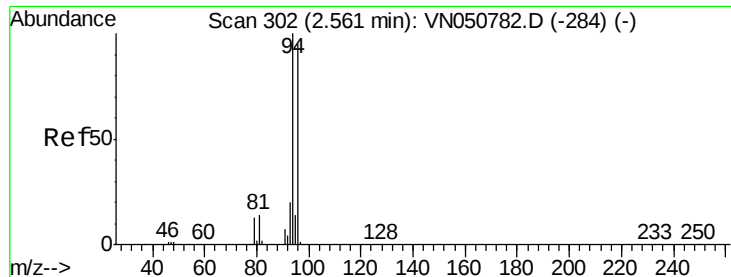
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 235

Delta R.T. -0.03 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

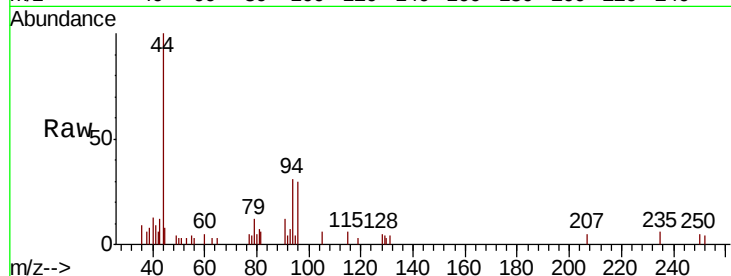
EP1-MW-D(10-15)

Tot Ion: 94 Resp: 3010

Ion Ratio Lower Upper

94 100

96 84.9 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN051057.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VN051057.D (-152) (-)

2.53

1500

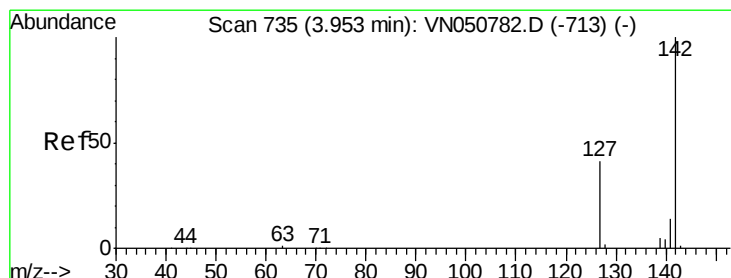
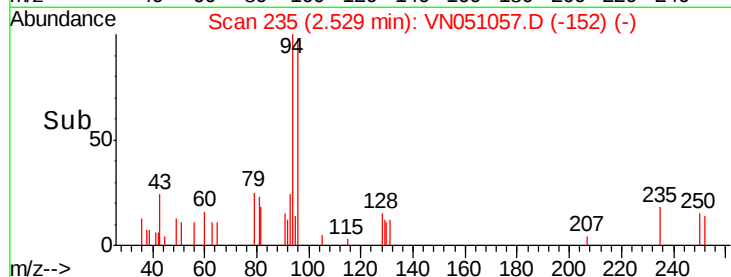
1000

500

0

2.50 2.55 2.60

Time-->



#10

Methyl Iodide

Concen: 6.46 ug/l

RT: 3.95 min Scan# 676

Delta R.T. -0.01 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

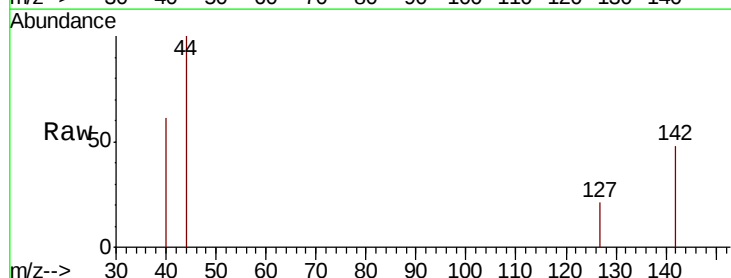
Tgt Ion: 142 Resp: 1002

Ion Ratio Lower Upper

142 100

127 21.8 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN051057.D (-585) (-)

Ion 126.80 (126.50 to 127.50): VN051057.D (-585) (-)

Ion 140.80 (140.50 to 141.50): VN051057.D (-585) (-)

3.95

600

500

400

300

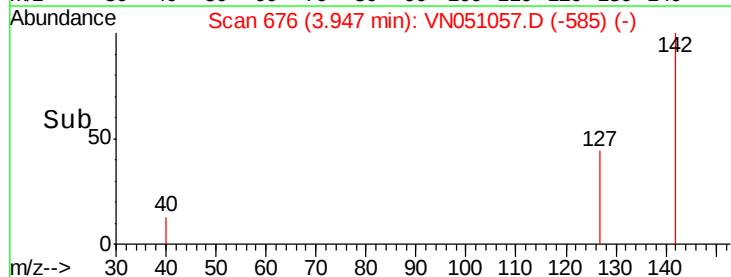
200

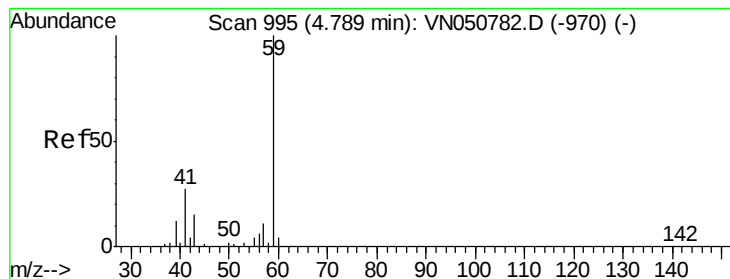
100

0

3.90 3.95 4.00

Time-->



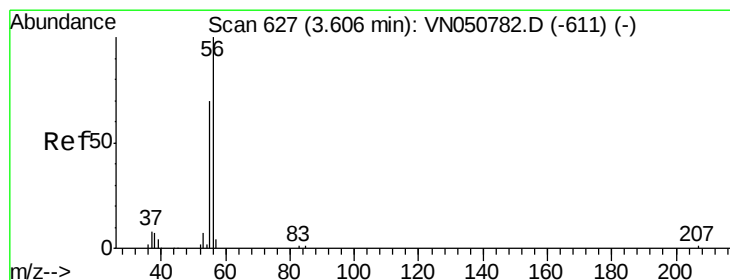
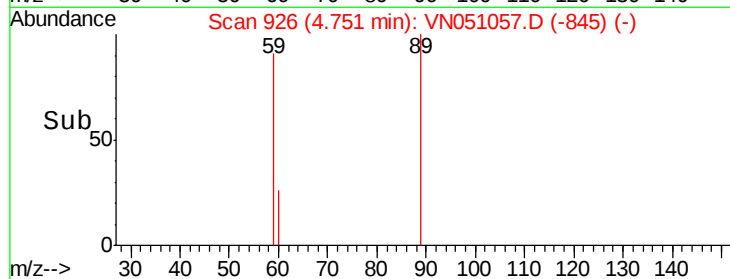
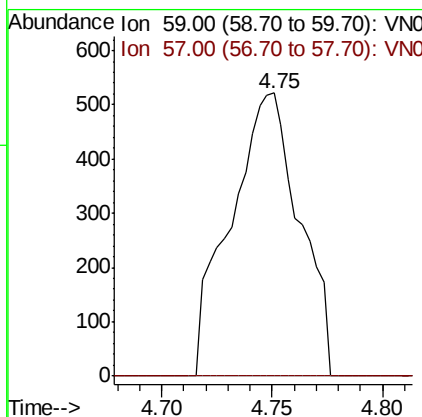
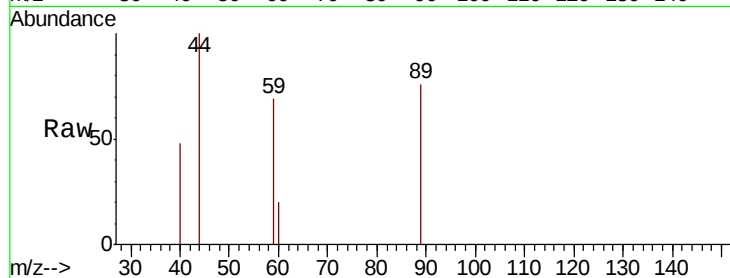


#11

Tert butyl alcohol  
 Concen: 2.24 ug/l  
 RT: 4.75 min Scan# 926  
 Delta R.T. -0.04 min  
 Lab File: VN051057.D  
 Acq: 7 Sep 2018 16:40

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EP1-MW-D(10-15)

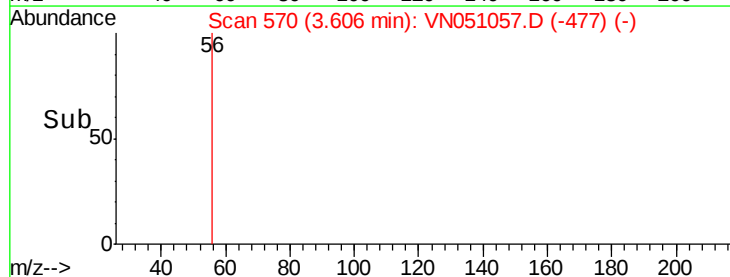
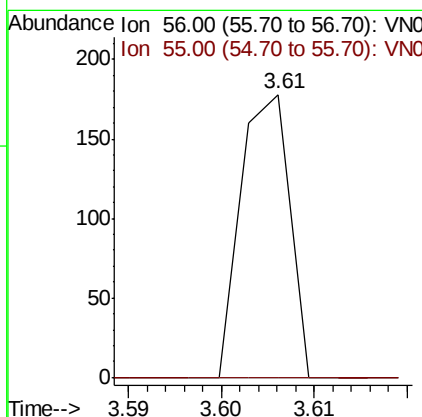
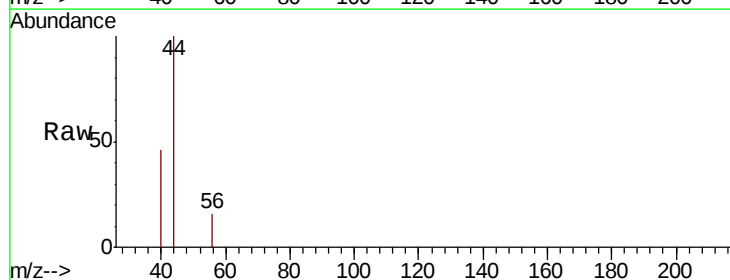
Tot Ion: 59 Resp: 1132  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.3 12.5#

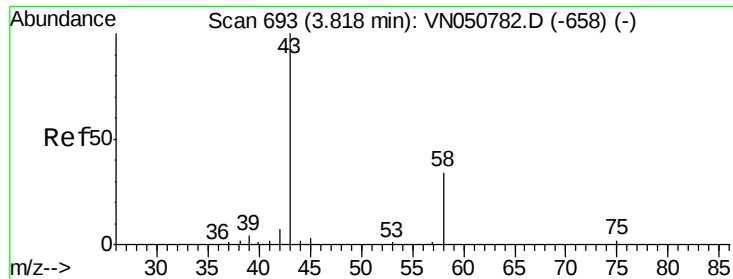


#13

Acrolein  
 Concen: 18.12 ug/l  
 RT: 3.61 min Scan# 570  
 Delta R.T. 0.00 min  
 Lab File: VN051057.D  
 Acq: 7 Sep 2018 16:40

Tgt Ion: 56 Resp: 65  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 57.7 86.5#





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

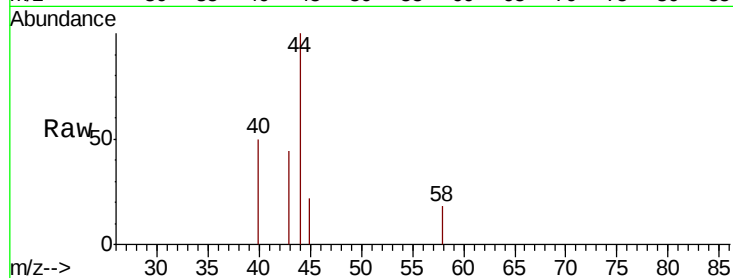
EP1-MW-D(10-15)

Tot Ion: 43 Resp: 1081

Ion Ratio Lower Upper

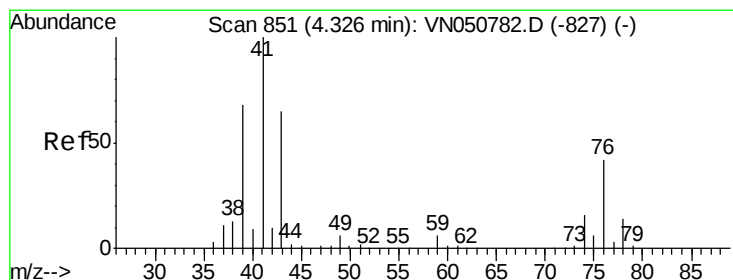
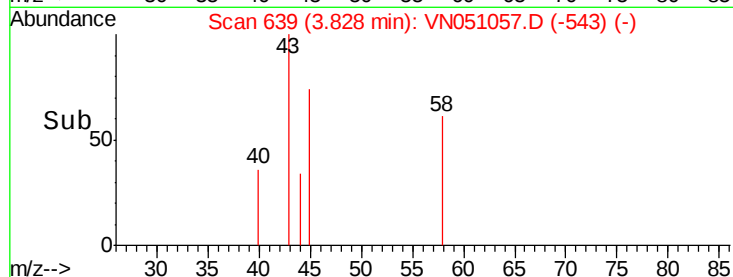
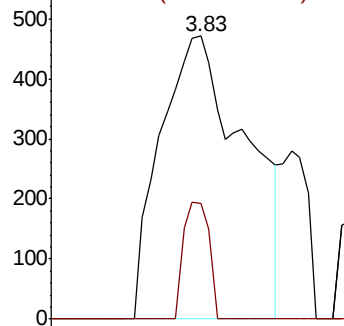
43 100

58 41.0 27.2 40.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.49 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN051057.D

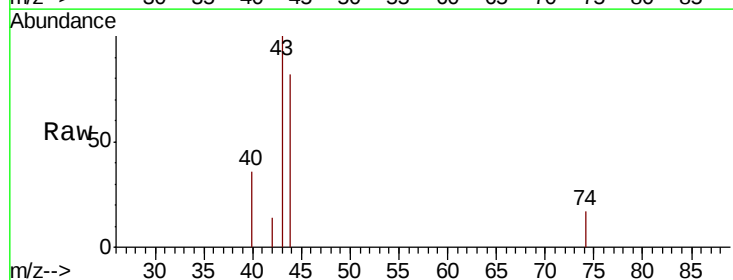
Acq: 7 Sep 2018 16:40

Tgt Ion: 43 Resp: 3657

Ion Ratio Lower Upper

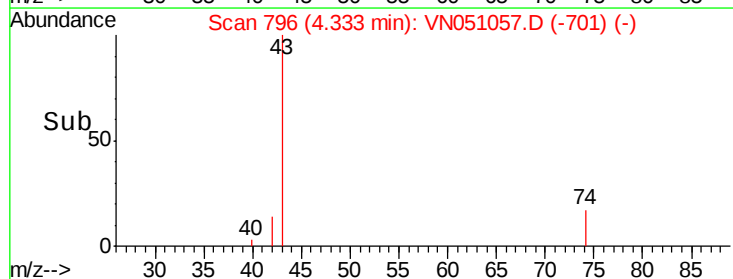
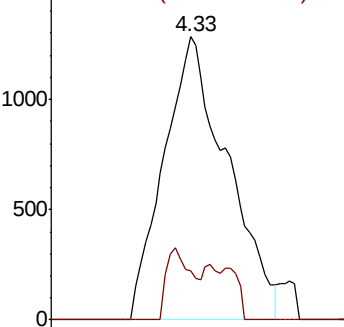
43 100

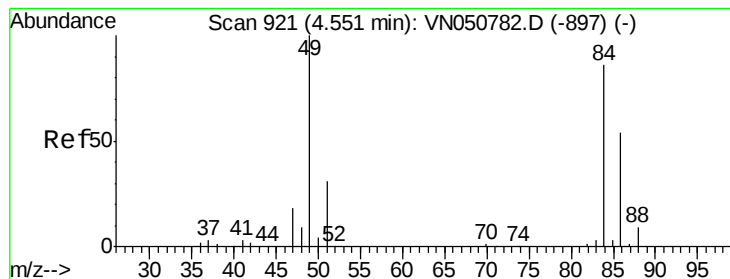
74 10.2 19.8 29.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 0.31 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.00 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

EP1-MW-D(10-15)

Tot Ion: 84 Resp: 2771

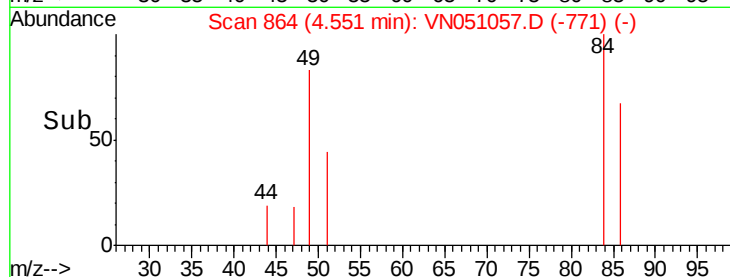
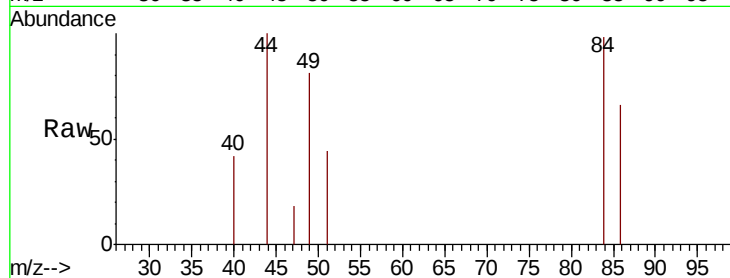
Ion Ratio Lower Upper

84 100

49 82.6 93.2 139.8#

51 44.3 29.0 43.6#

86 67.3 49.8 74.8

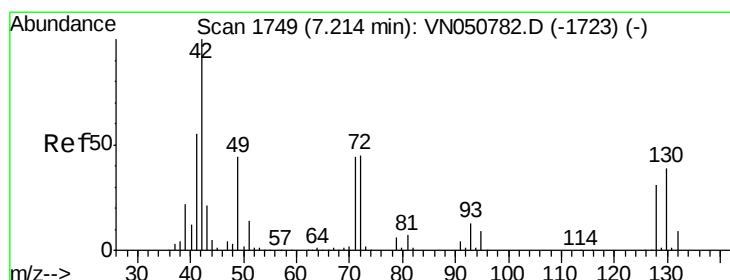
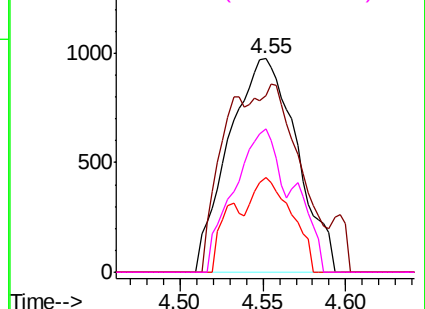


Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC



#29

Tetrahydrofuran

Concen: 0.20 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

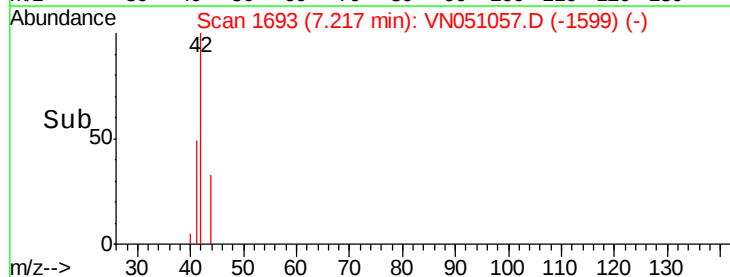
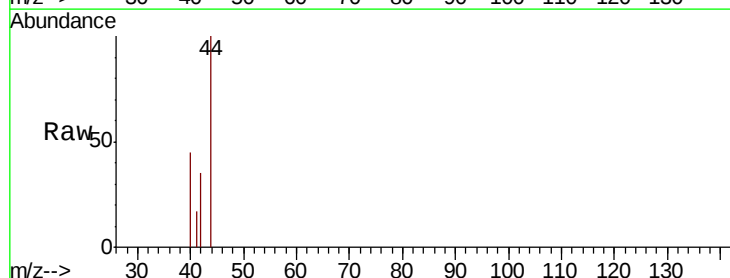
Tgt Ion: 42 Resp: 372

Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

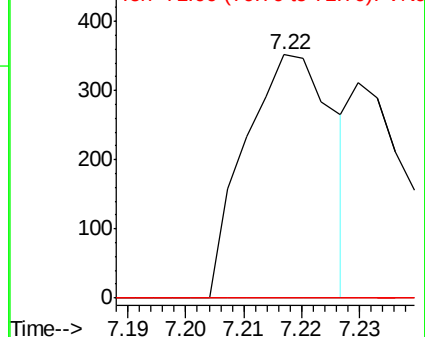
71 0.0 33.7 50.5#

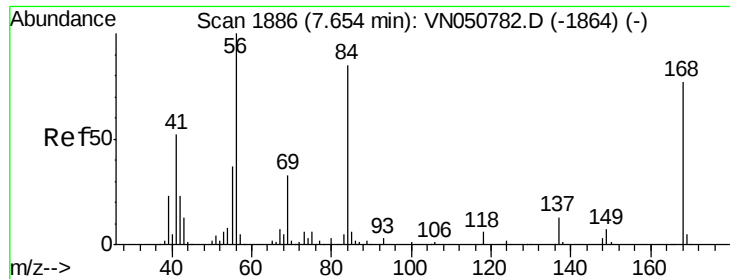


Abundance Ion 42.00 (41.70 to 42.70): VNC

Ion 72.00 (71.70 to 72.70): VNC

Ion 71.00 (70.70 to 71.70): VNC

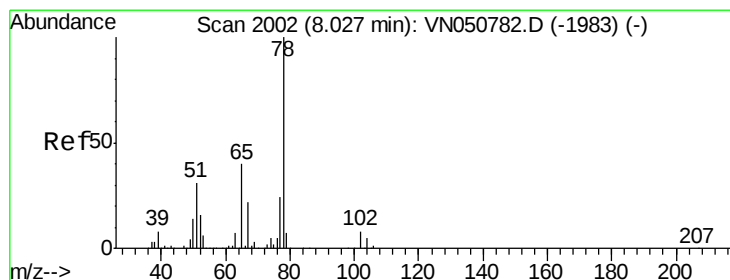
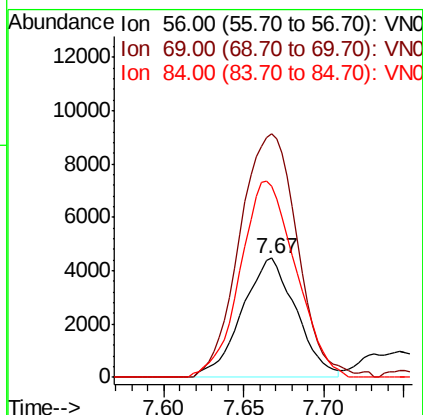
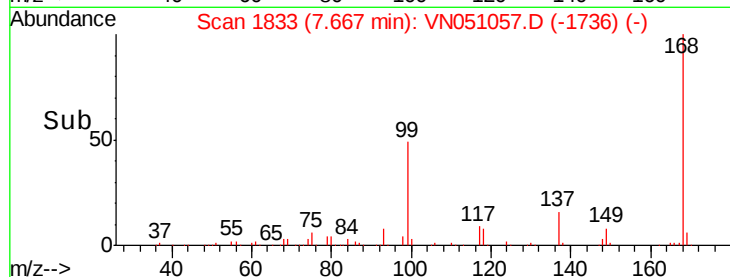
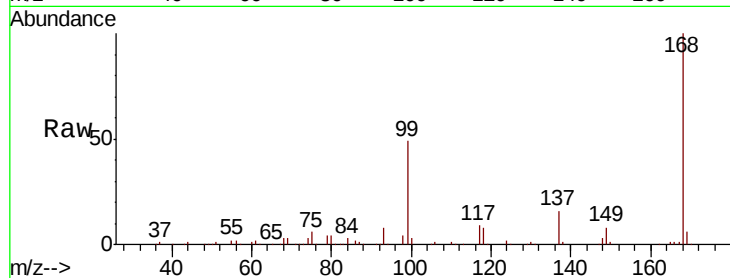




#31  
Cyclohexane  
Concen: 1.23 ug/l  
RT: 7.67 min Scan# 1833  
Delta R.T. 0.01 min  
Lab File: VN051057.D  
Acq: 7 Sep 2018 16:40

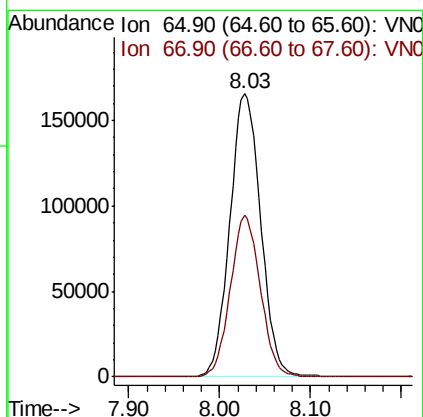
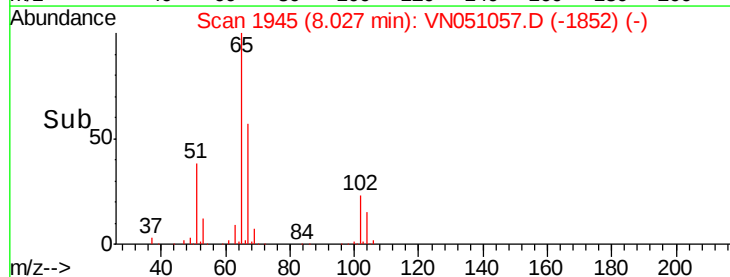
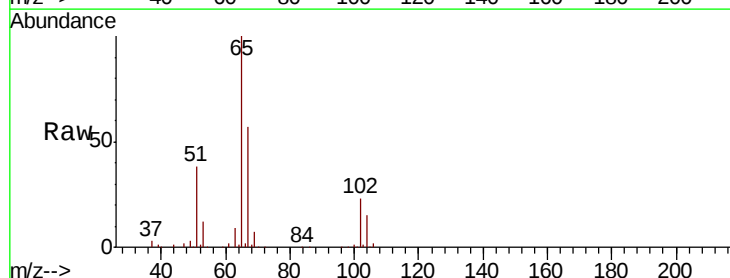
Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-MW-D(10-15)

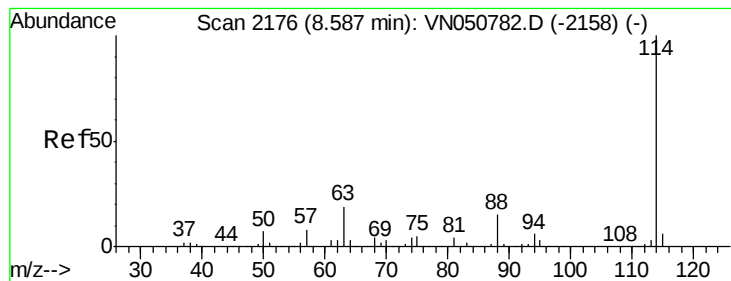
Tot Ion: 56 Resp: 10397  
Ion Ratio Lower Upper  
56 100  
69 204.8 26.2 39.4#  
84 161.0 68.3 102.5#



#33  
1,2-Dichloroethane-d4  
Concen: 49.31 ug/l  
RT: 8.03 min Scan# 1945  
Delta R.T. 0.00 min  
Lab File: VN051057.D  
Acq: 7 Sep 2018 16:40

Tgt Ion: 65 Resp: 391289  
Ion Ratio Lower Upper  
65 100  
67 55.3 0.0 110.4





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

EP1-MW-D(10-15)

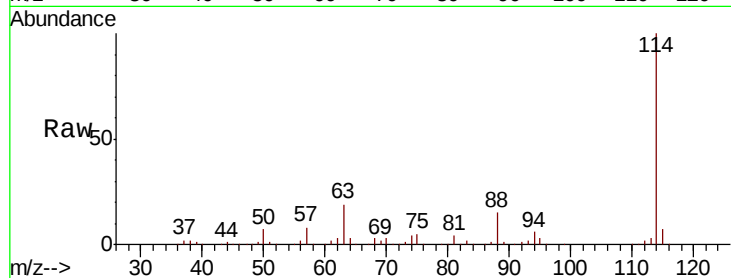
Tot Ion:114 Resp: 996173

Ion Ratio Lower Upper

114 100

63 18.8 0.0 38.6

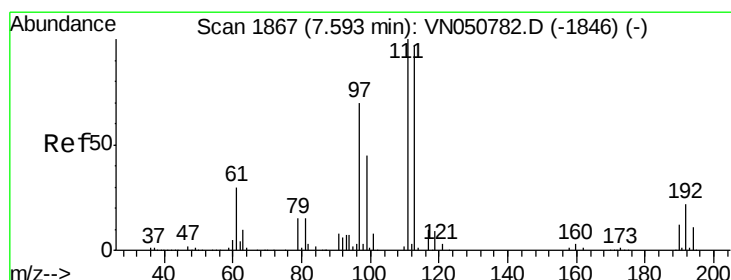
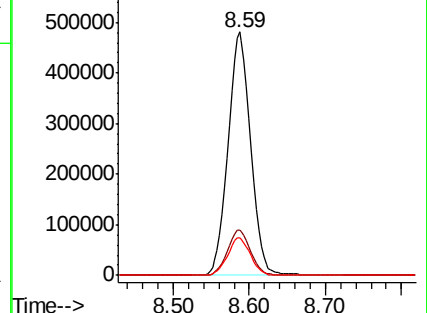
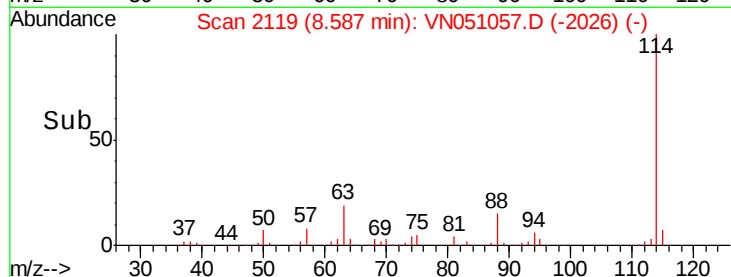
88 15.4 0.0 30.6



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: 47.21 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

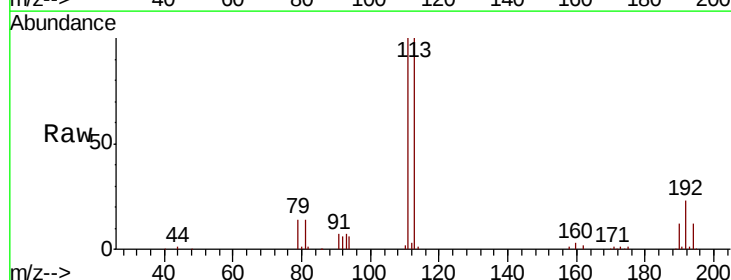
Tgt Ion:113 Resp: 374144

Ion Ratio Lower Upper

113 100

111 100.2 82.6 123.8

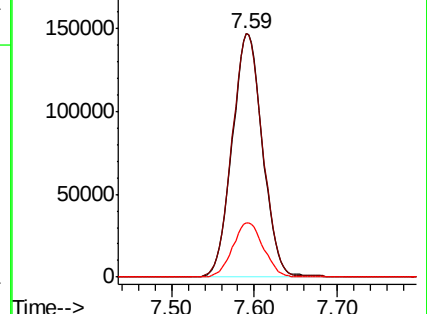
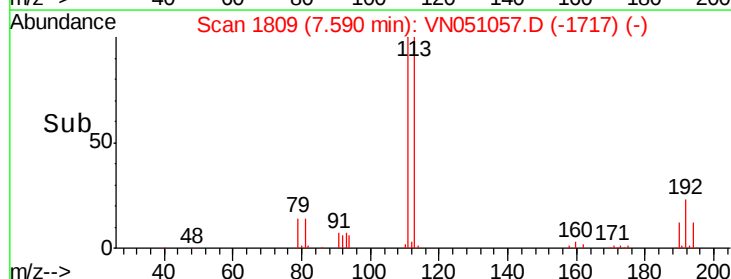
192 22.6 18.0 27.0

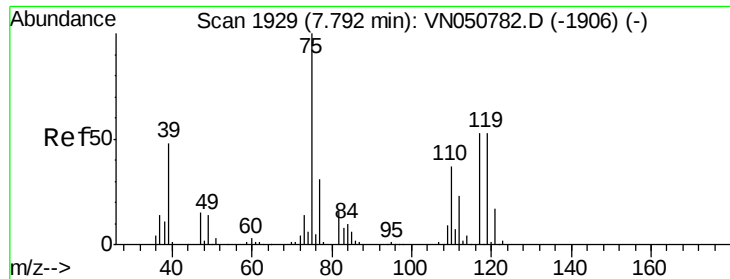


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

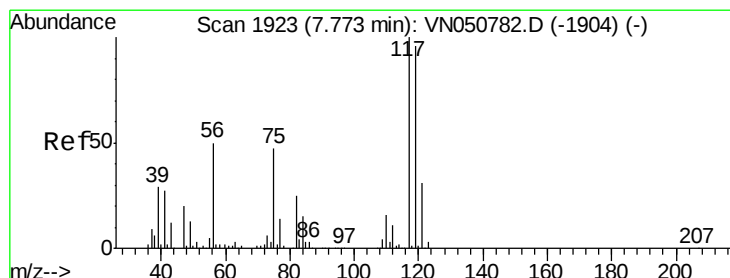
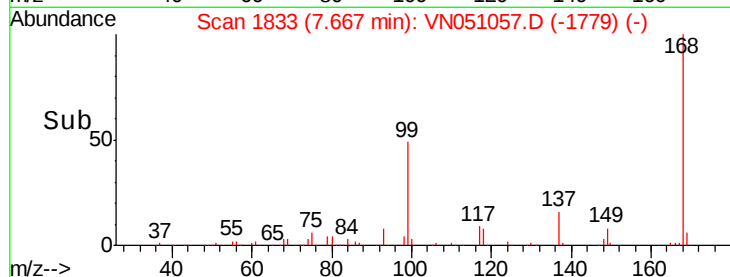
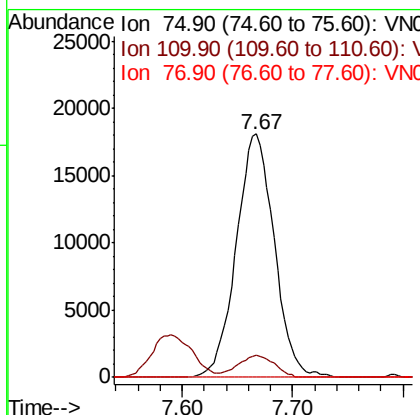
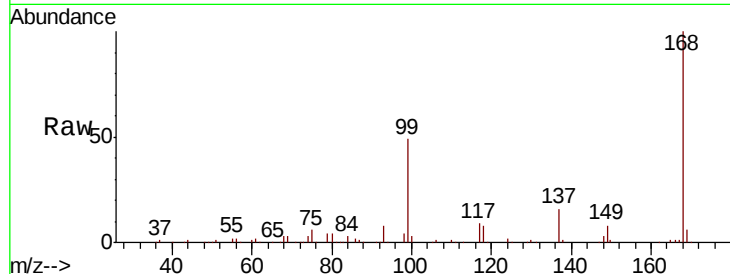




#36  
 1,1-Dichloropropene  
 Concen: 3.67 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.13 min  
 Lab File: VN051057.D  
 Acq: 7 Sep 2018 16:40

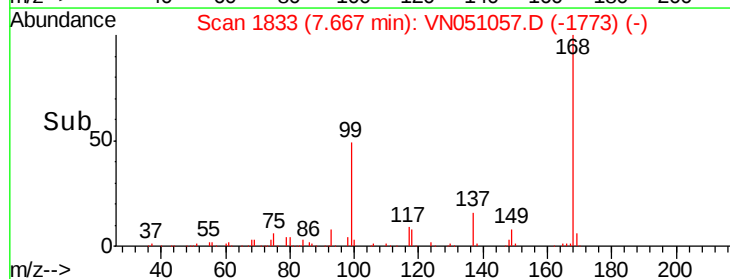
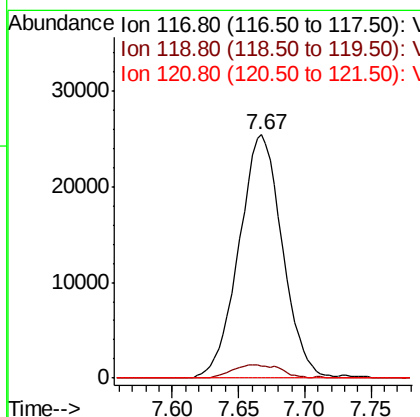
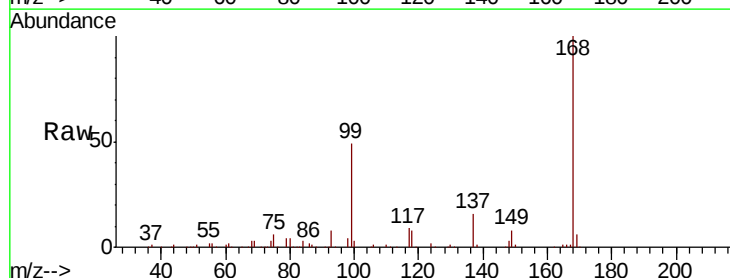
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EP1-MW-D(10-15)

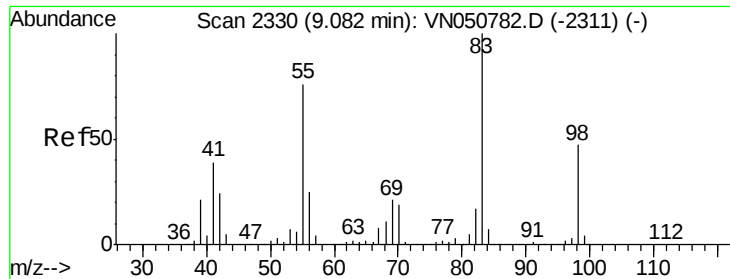
| Tot Ion   | 75    | Resp  | 43175 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 8.8   | 18.1  | 54.4# |
| 77        | 0.0   | 24.8  | 37.2# |



#38  
 Carbon Tetrachloride  
 Concen: 4.88 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.11 min  
 Lab File: VN051057.D  
 Acq: 7 Sep 2018 16:40

| Tgt Ion   | 117   | Resp  | 58014  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 5.0   | 76.3  | 114.5# |
| 121       | 0.0   | 24.6  | 36.8#  |

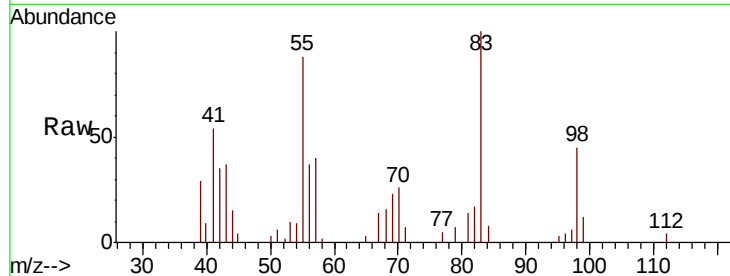




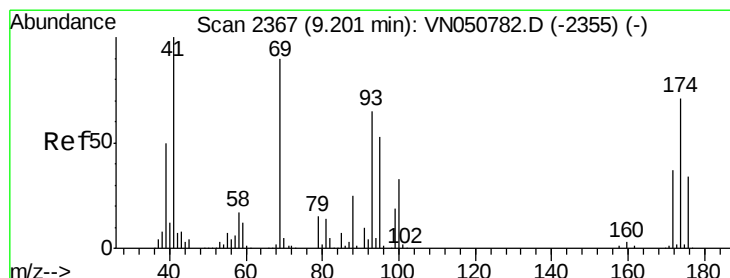
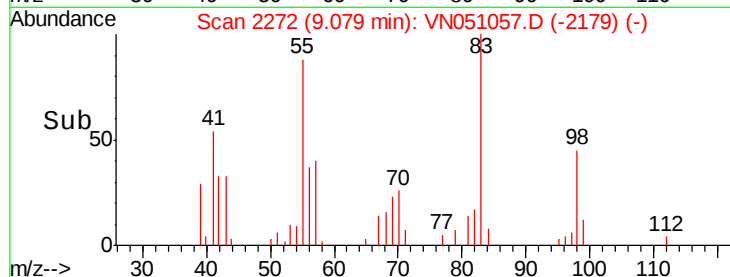
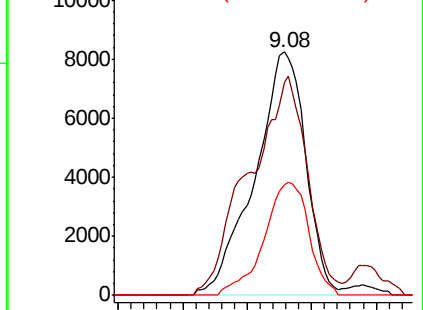
#39  
Methvlcvclohexane  
Concen: 1.77 ug/l  
RT: 9.08 min Scan# 2272  
Delta R.T. -0.00 min  
Lab File: VN051057.D  
Acq: 7 Sep 2018 16:40

Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-MW-D(10-15)

Tot Ion: 83 Resp: 22531  
Ion Ratio Lower Upper  
83 100  
55 87.5 61.0 91.4  
98 45.4 37.5 56.3

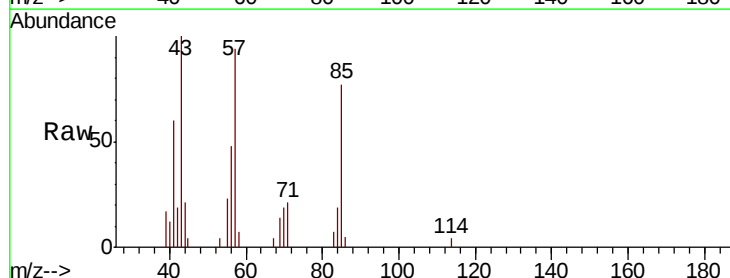


Abundance Ion 83.00 (82.70 to 83.70): VN0  
Ion 55.00 (54.70 to 55.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

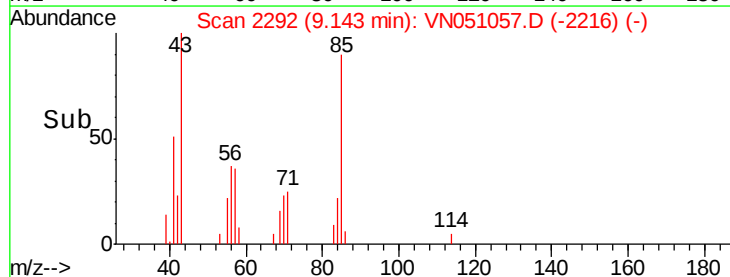
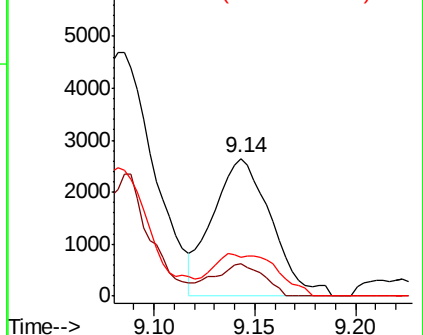


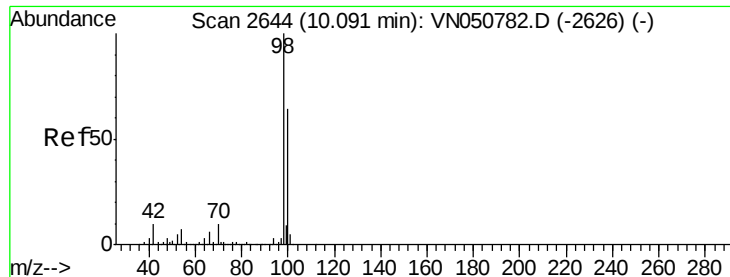
#48  
Methyl methacrylate  
Concen: 0.91 ug/l  
RT: 9.14 min Scan# 2292  
Delta R.T. -0.06 min  
Lab File: VN051057.D  
Acq: 7 Sep 2018 16:40

Tgt Ion: 41 Resp: 5358  
Ion Ratio Lower Upper  
41 100  
69 19.6 74.7 112.1#  
39 34.2 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 51.17 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

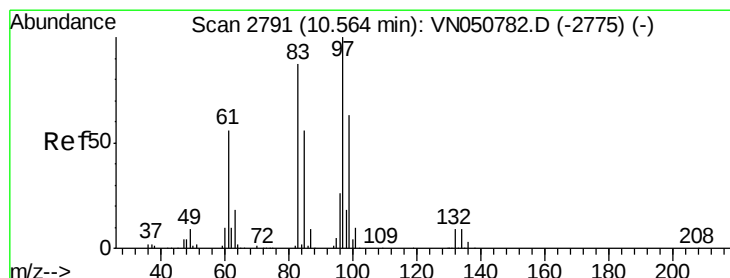
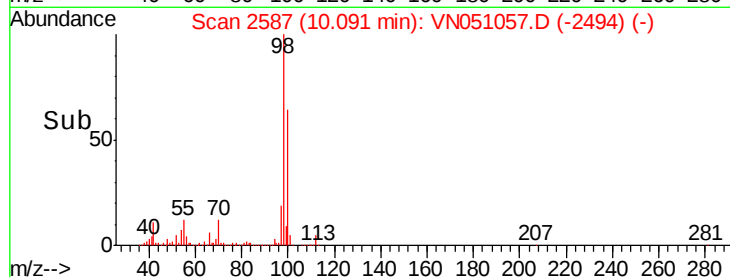
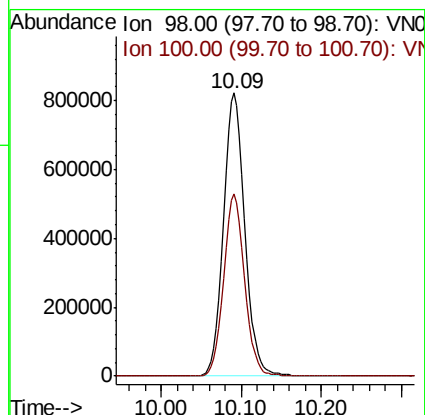
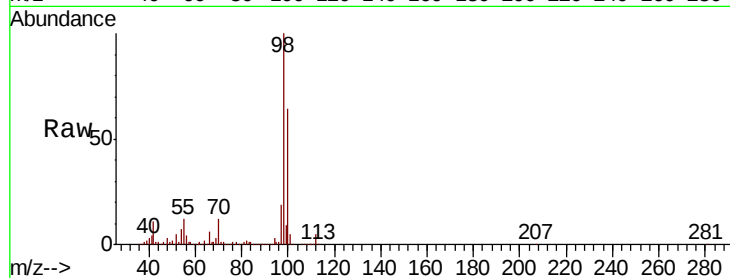
EP1-MW-D(10-15)

Tot Ion: 98 Resp: 1516136

Ion Ratio Lower Upper

98 100

100 63.0 51.5 77.3



#55

1,1,2-Trichloroethane

Concen: 15.06 ug/l

RT: 10.53 min Scan# 2724

Delta R.T. -0.03 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Tgt Ion: 97 Resp: 117374

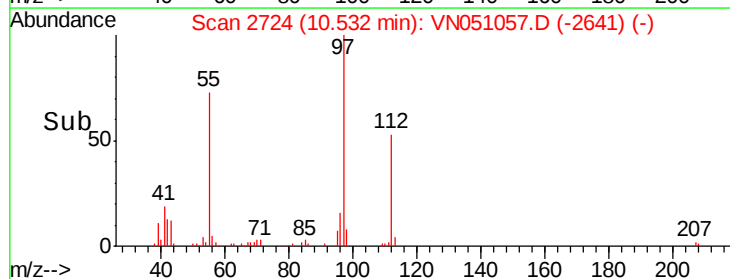
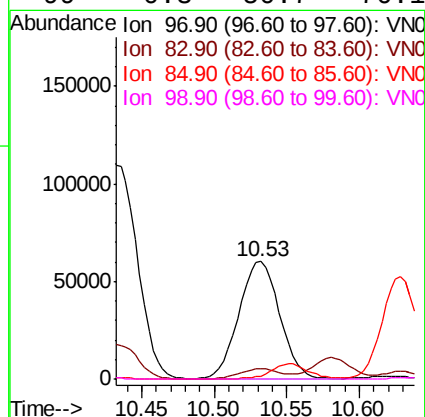
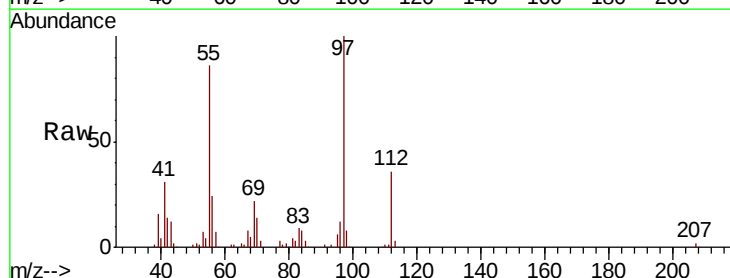
Ion Ratio Lower Upper

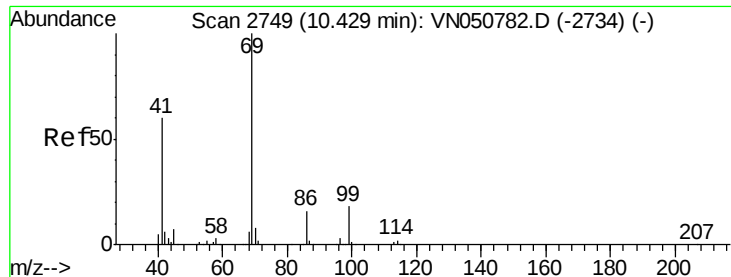
97 100

83 8.8 69.7 104.5#

85 2.6 44.5 66.7#

99 0.3 50.7 76.1#





#56

Ethyl methacrylate

Concen: 7.62 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampled :

EP1-MW-D(10-15)

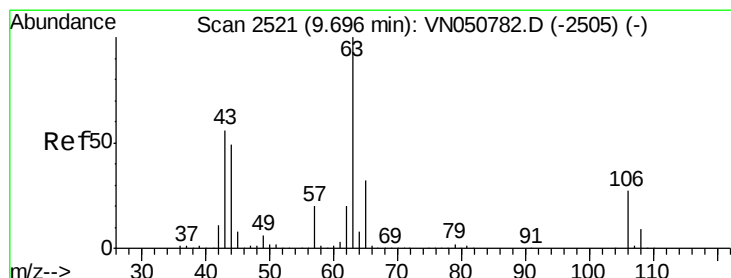
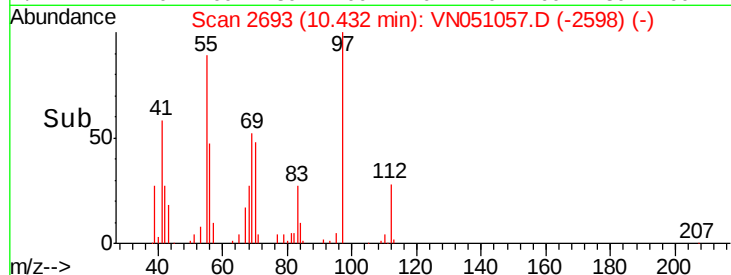
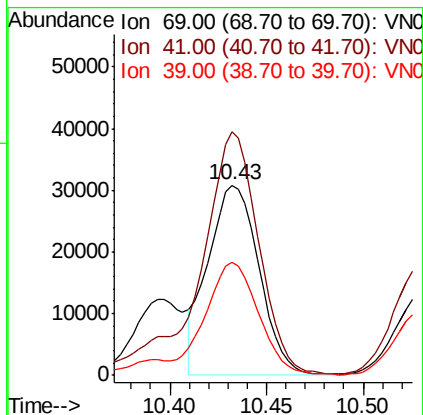
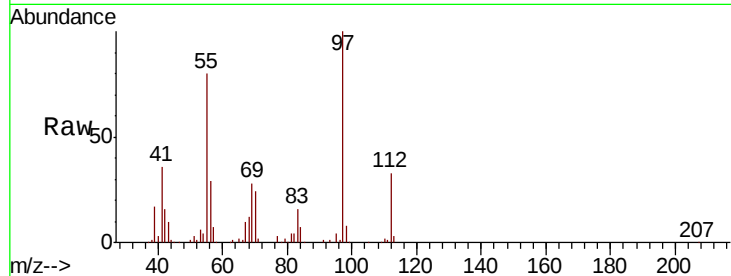
Tot Ion: 69 Resp: 56036

Ion Ratio Lower Upper

69 100

41 153.7 48.3 72.5#

39 63.0 24.0 36.0#



#58

2-Chloroethyl Vinyl ether

Concen: 12.23 ug/l

RT: 9.51 min Scan# 2405

Delta R.T. -0.19 min

Lab File: VN051057.D

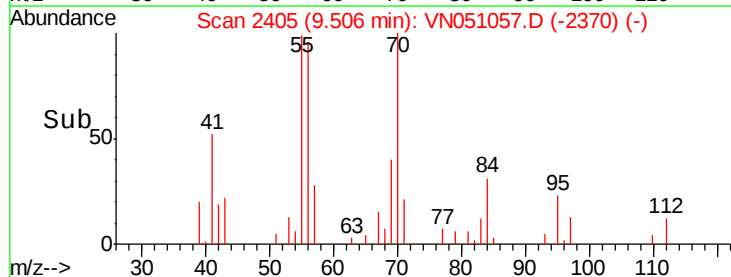
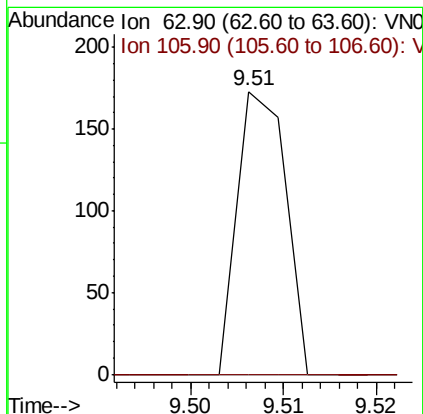
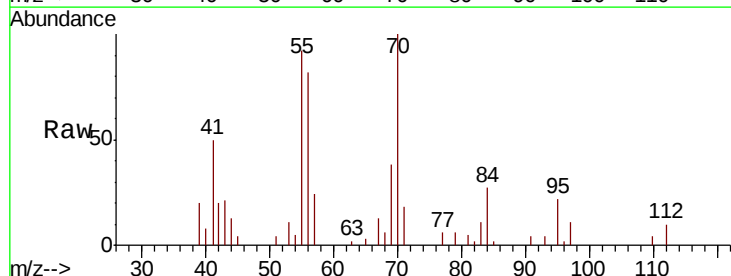
Acq: 7 Sep 2018 16:40

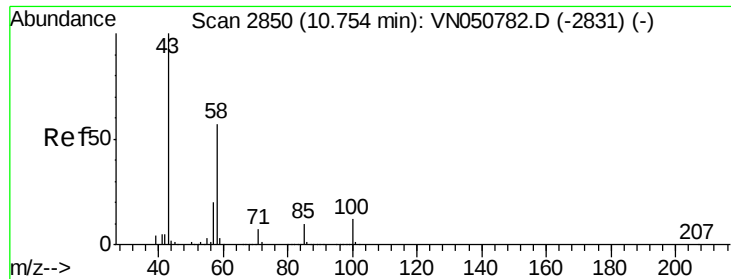
Tgt Ion: 63 Resp: 64

Ion Ratio Lower Upper

63 100

106 0.0 21.9 32.9#

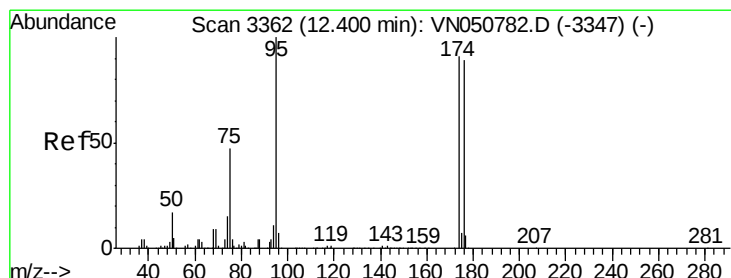
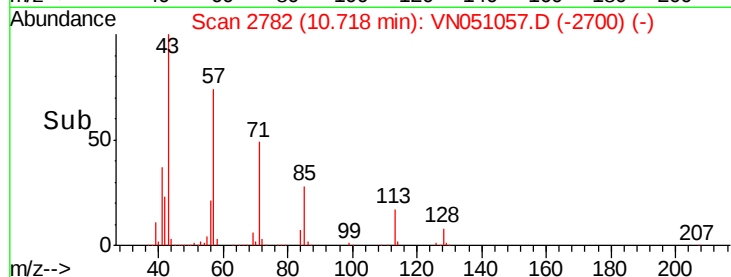
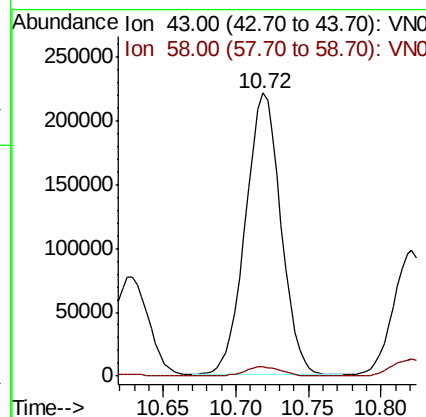
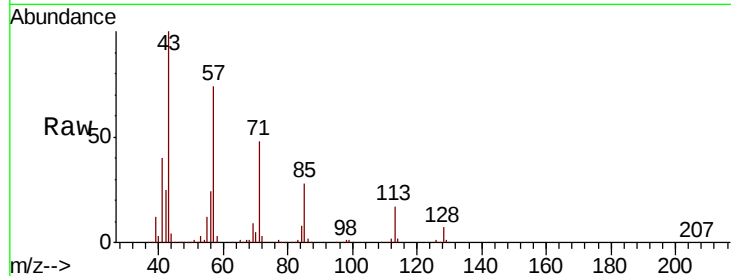




#59  
2-Hexanone  
Concen: 81.60 ug/l  
RT: 10.72 min Scan# 2782  
Delta R.T. -0.04 min  
Lab File: VN051057.D  
Acq: 7 Sep 2018 16:40

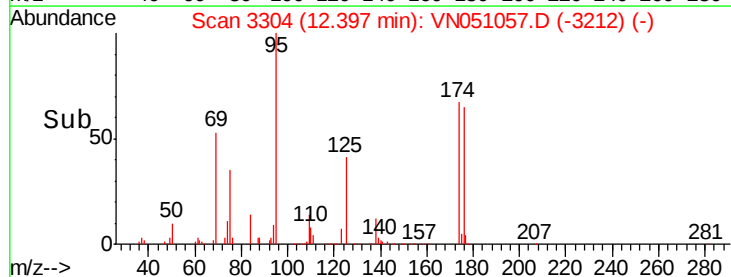
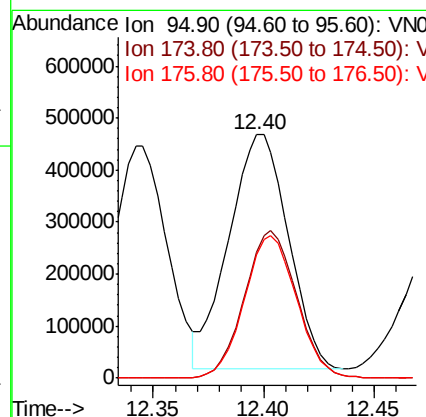
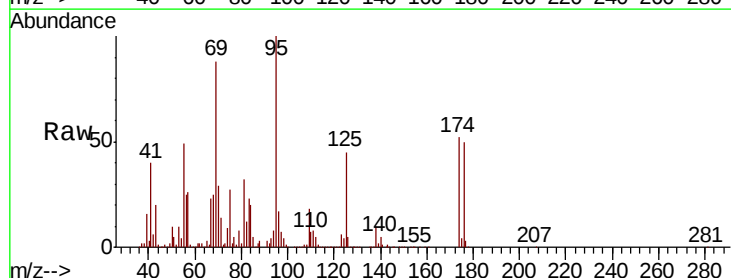
Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-MW-D(10-15)

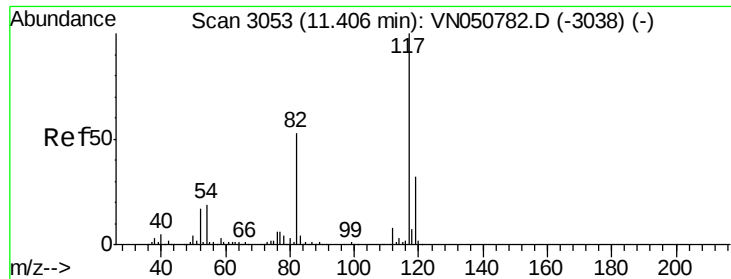
Tot Ion: 43 Resp: 376355  
Ion Ratio Lower Upper  
43 100  
58 3.5 28.3 85.0#



#62  
4-Bromofluorobenzene  
Concen: 85.84 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. -0.00 min  
Lab File: VN051057.D  
Acq: 7 Sep 2018 16:40

Tgt Ion: 95 Resp: 845219  
Ion Ratio Lower Upper  
95 100  
174 55.4 0.0 183.0  
176 53.4 0.0 178.8

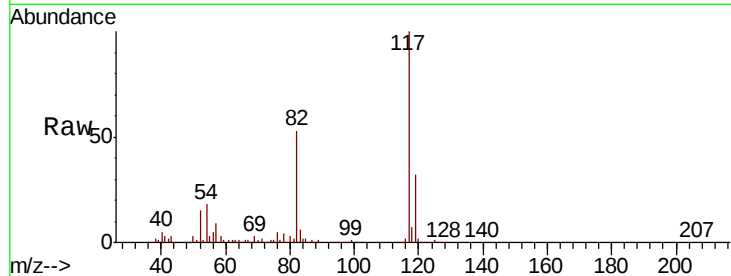




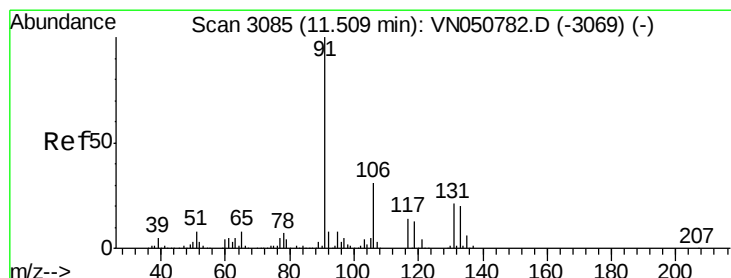
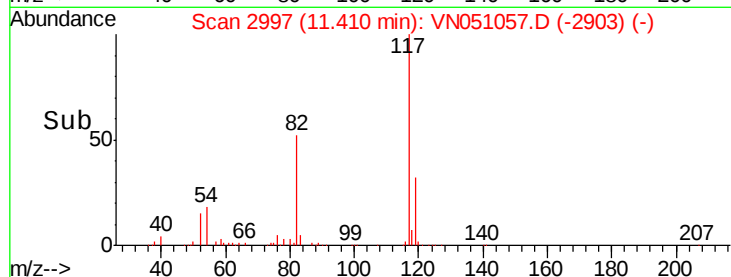
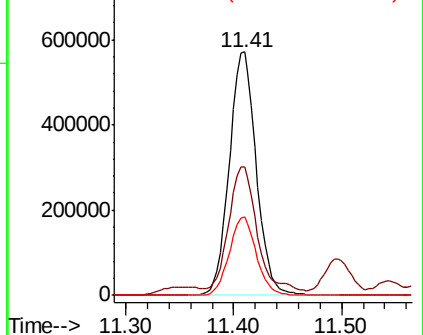
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN051057.D  
Acq: 7 Sep 2018 16:40

Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-MW-D(10-15)

Tot Ion:117 Resp: 991568  
Ion Ratio Lower Upper  
117 100  
82 49.6 42.6 64.0  
119 32.2 25.8 38.6

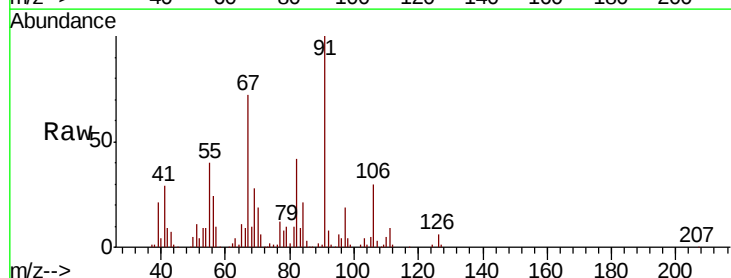


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

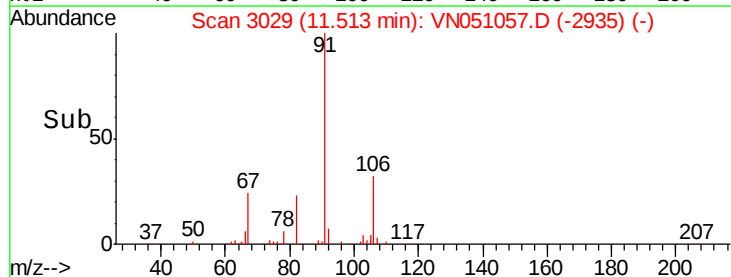
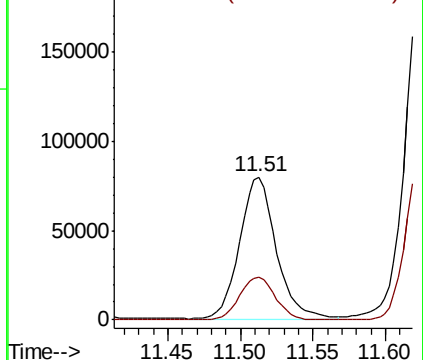


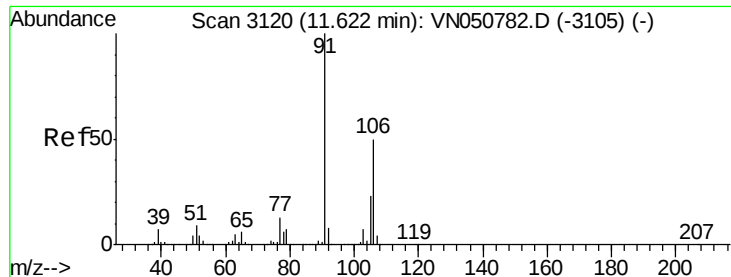
#67  
Ethyl Benzene  
Concen: 3.31 ug/l  
RT: 11.51 min Scan# 3029  
Delta R.T. 0.00 min  
Lab File: VN051057.D  
Acq: 7 Sep 2018 16:40

Tgt Ion: 91 Resp: 139321  
Ion Ratio Lower Upper  
91 100  
106 30.2 25.0 37.4



Abundance Ion 91.00 (90.70 to 91.70): V  
Ion 106.00 (105.70 to 106.70): V

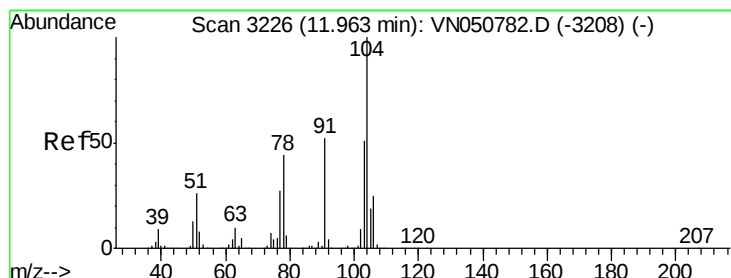
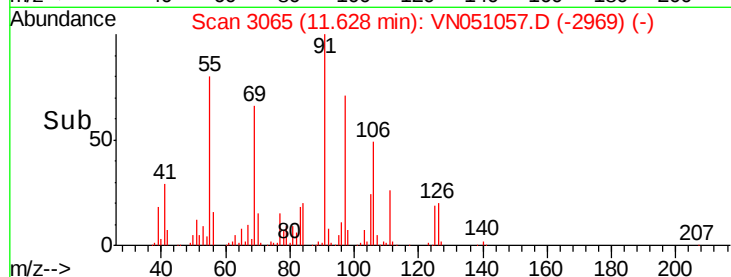
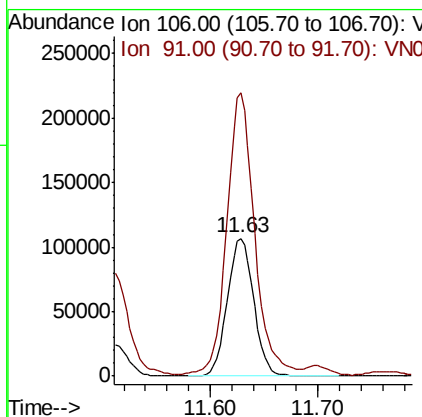
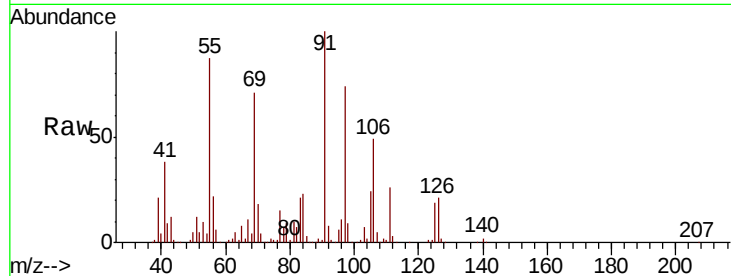




#68  
m/p-Xvlenes  
Concen: 11.36 ug/l  
RT: 11.63 min Scan# 3065  
Delta R.T. 0.01 min  
Lab File: VN051057.D  
Acq: 7 Sep 2018 16:40

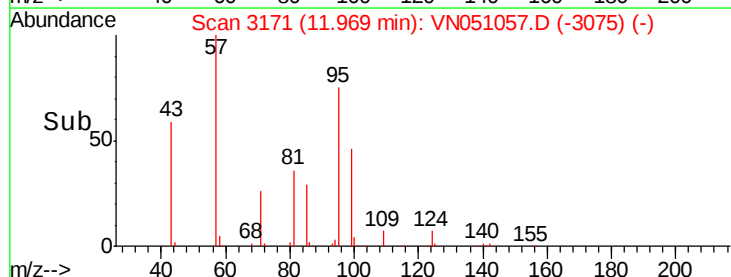
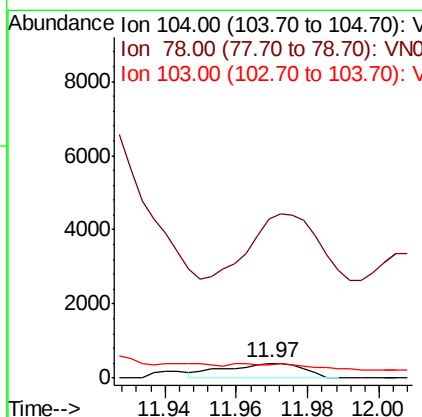
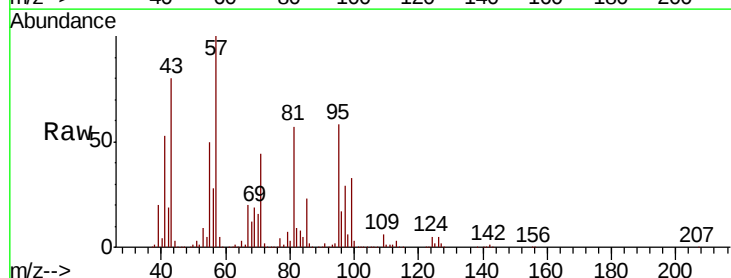
Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-MW-D(10-15)

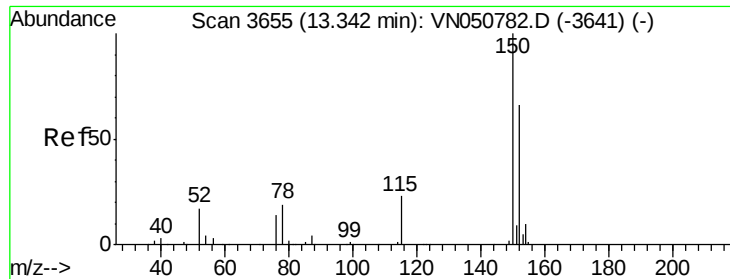
Tot Ion:106 Resp: 181643  
Ion Ratio Lower Upper  
106 100  
91 216.6 161.0 241.6



#70  
Styrene  
Concen: 1.29 ug/l  
RT: 11.97 min Scan# 3171  
Delta R.T. 0.01 min  
Lab File: VN051057.D  
Acq: 7 Sep 2018 16:40

Tgt Ion:104 Resp: 605  
Ion Ratio Lower Upper  
104 100  
78 446.4 38.2 57.4#  
103 0.0 44.4 66.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

EP1-MW-D(10-15)

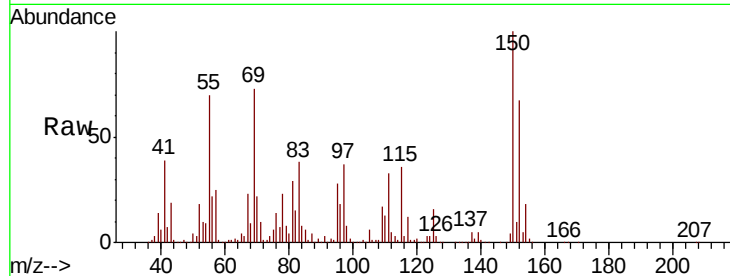
Tot Ion:152 Resp: 538506

Ion Ratio Lower Upper

152 100

115 44.1 27.8 83.4

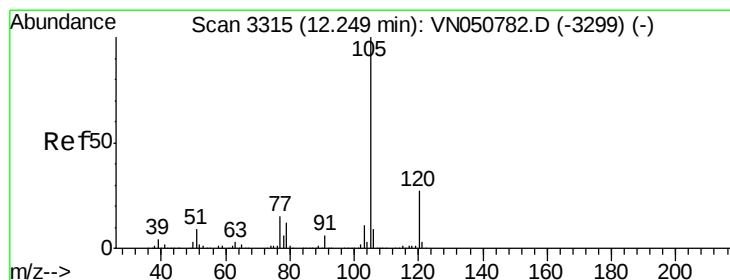
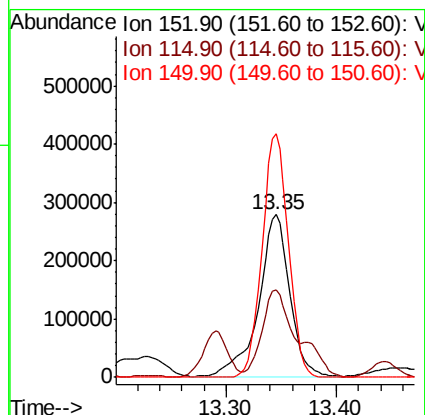
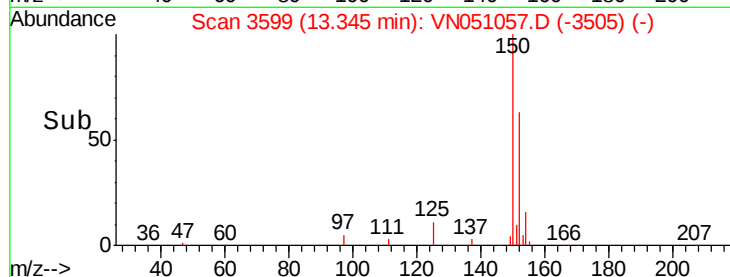
150 127.4 0.0 351.4



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: 25.32 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN051057.D

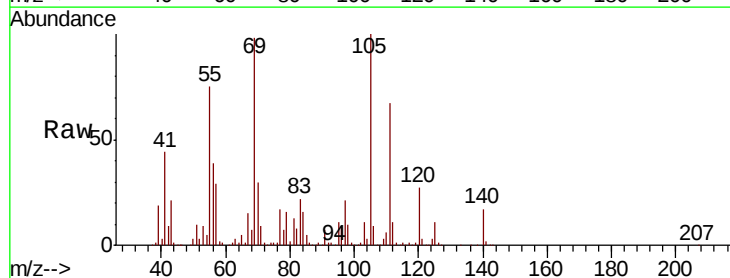
Acq: 7 Sep 2018 16:40

Tgt Ion:105 Resp: 1128895

Ion Ratio Lower Upper

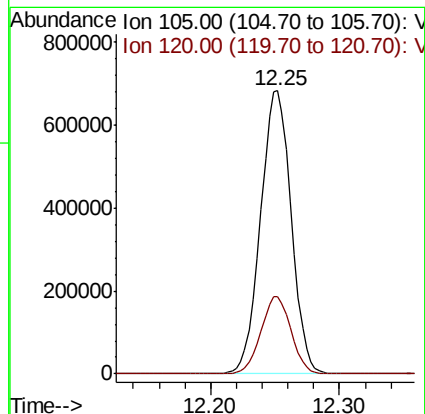
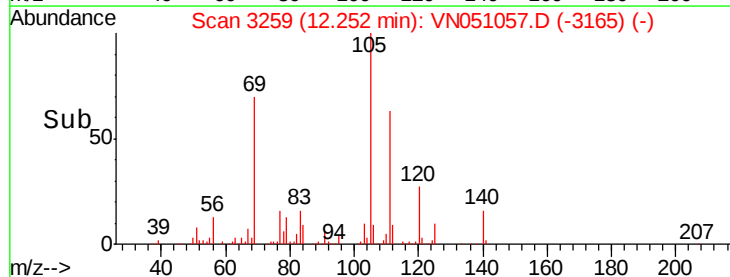
105 100

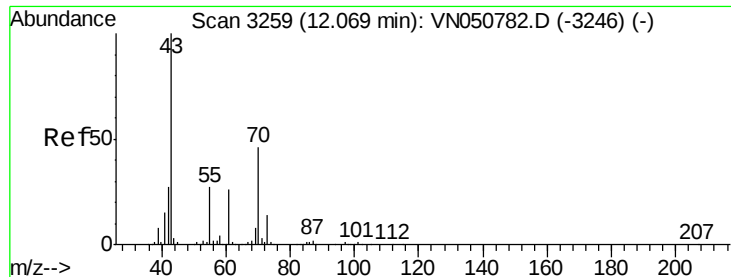
120 26.9 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amyl acetate

Concen: 325.54 ug/l

RT: 12.05 min Scan# 3195

Delta R.T. -0.02 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

EP1-MW-D(10-15)

Tot Ion: 43 Resp: 3647352

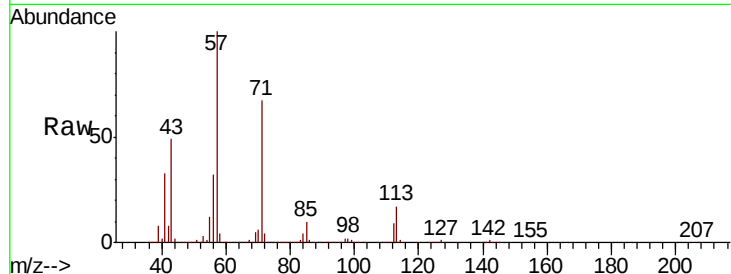
Ion Ratio Lower Upper

43 100

70 10.0 36.2 54.2#

55 20.9 21.8 32.8#

61 0.0 20.5 30.7#

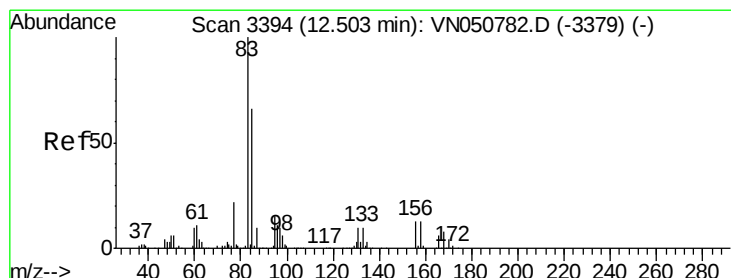
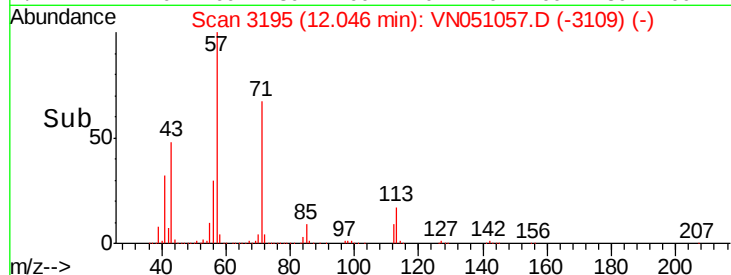
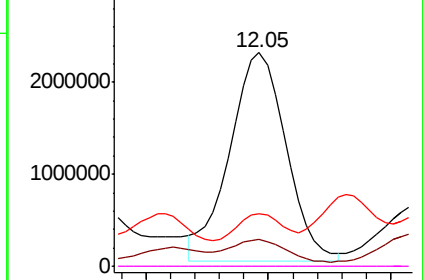


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: 28.70 ug/l

RT: 12.48 min Scan# 3329

Delta R.T. -0.02 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

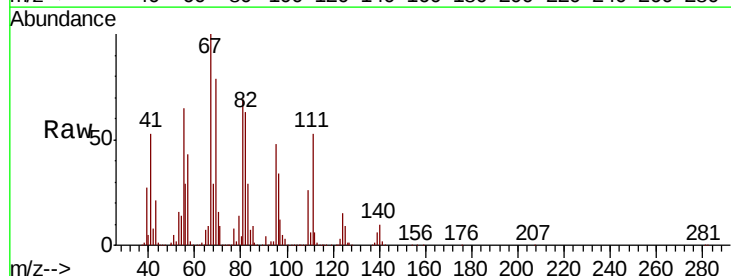
Tgt Ion: 83 Resp: 312484

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

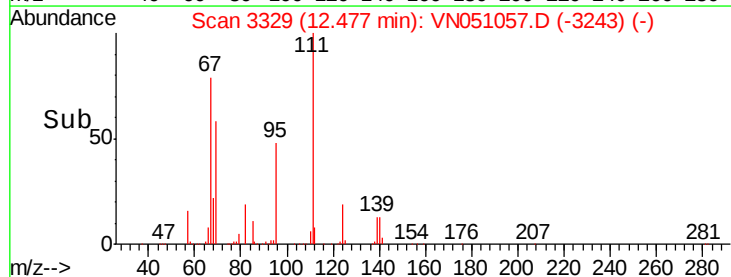
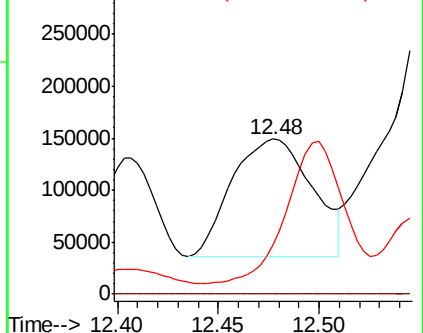
85 0.0 31.9 95.7#

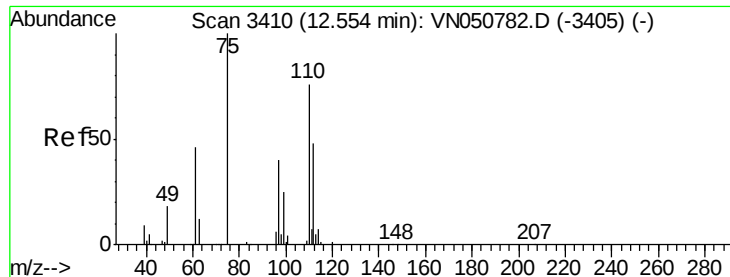


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

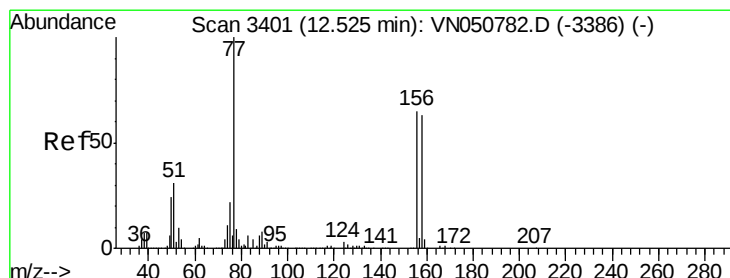
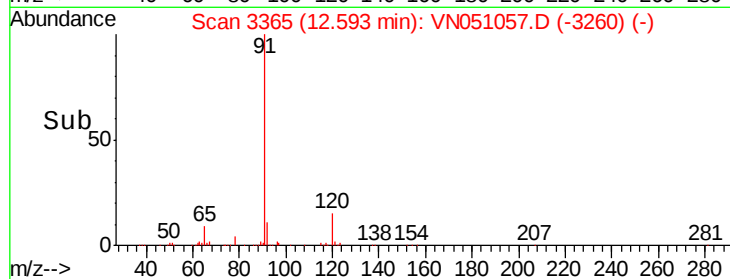
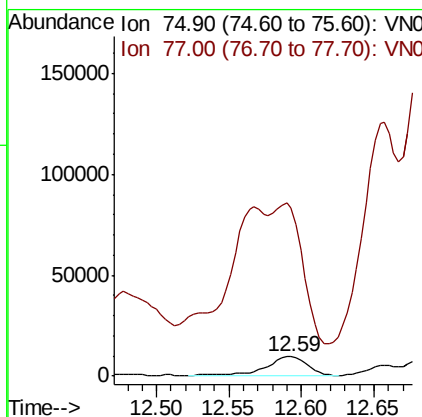
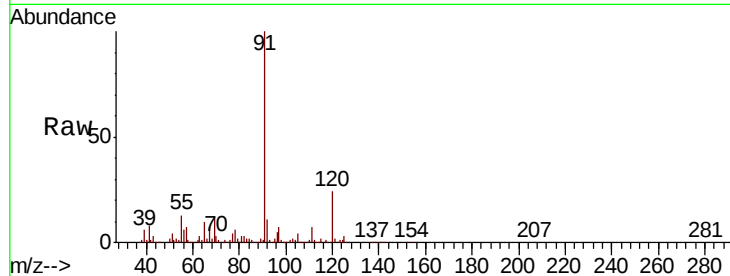




#76  
 1,2,3-Trichloropropane  
 Concen: 1.84 ug/l  
 RT: 12.59 min Scan# 3365  
 Delta R.T. 0.04 min  
 Lab File: VN051057.D  
 Acq: 7 Sep 2018 16:40

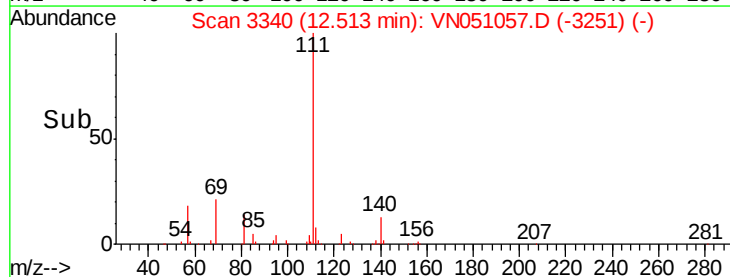
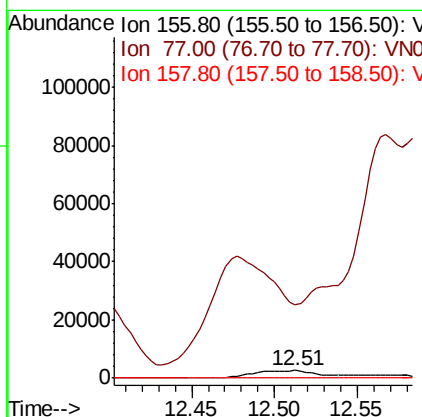
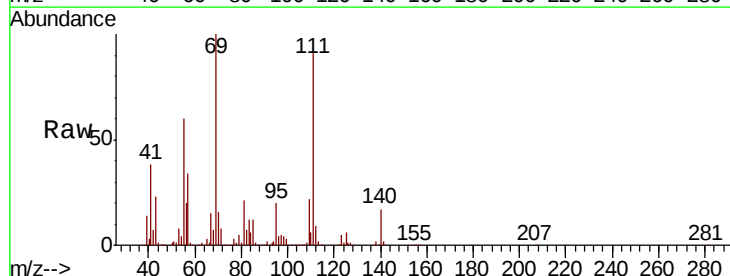
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EP1-MW-D(10-15)

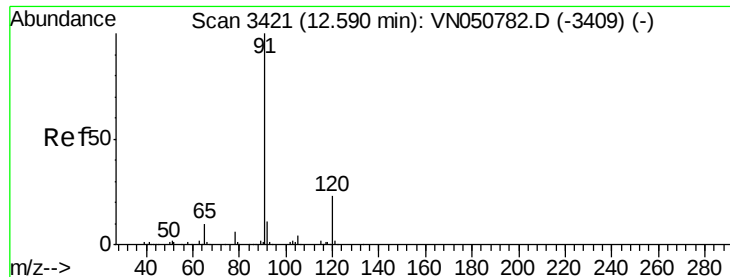
Tot Ion: 75 Resp: 17338  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 0.0 0.0



#77  
 Bromobenzene  
 Concen: 0.59 ug/l  
 RT: 12.51 min Scan# 3340  
 Delta R.T. -0.01 min  
 Lab File: VN051057.D  
 Acq: 7 Sep 2018 16:40

Tgt Ion: 156 Resp: 7094  
 Ion Ratio Lower Upper  
 156 100  
 77 0.0 89.9 269.7#  
 158 0.0 49.3 147.9#





#78

n-propylbenzene

Concen: 62.29 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

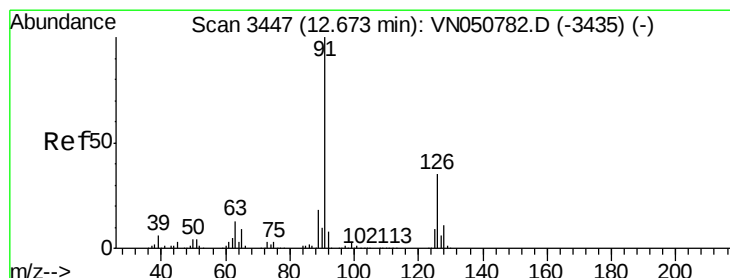
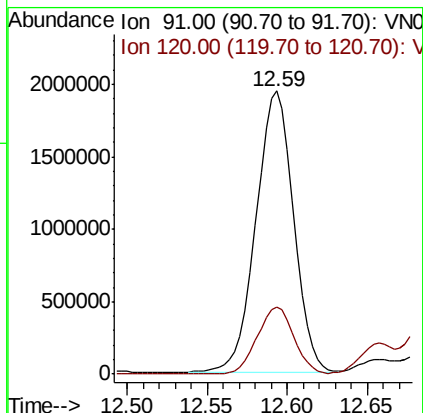
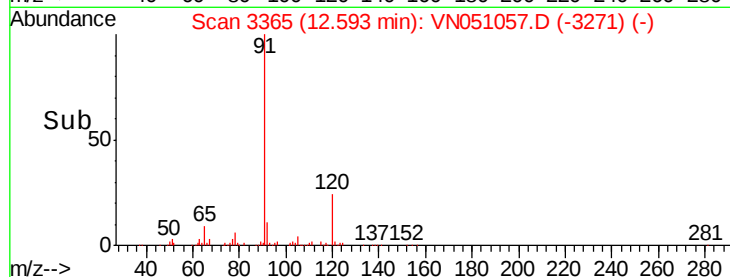
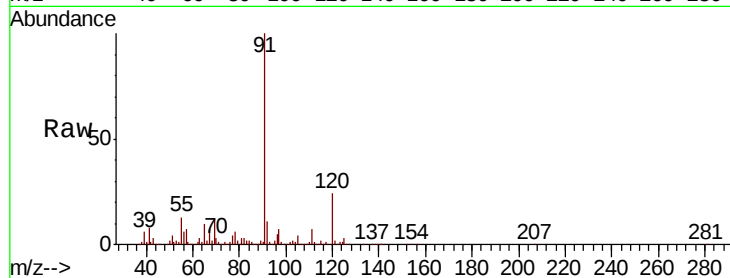
EP1-MW-D(10-15)

Tot Ion: 91 Resp: 3102761

Ion Ratio Lower Upper

91 100

120 23.6 11.7 35.0



#79

2-Chlorotoluene

Concen: 3.96 ug/l

RT: 12.66 min Scan# 3385

Delta R.T. -0.02 min

Lab File: VN051057.D

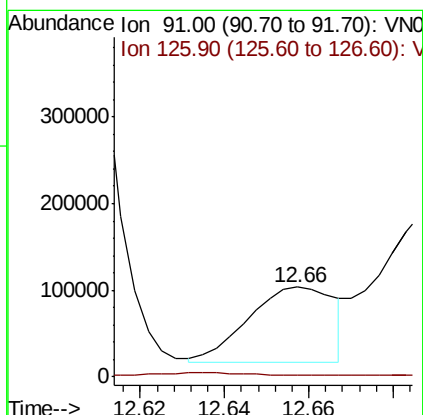
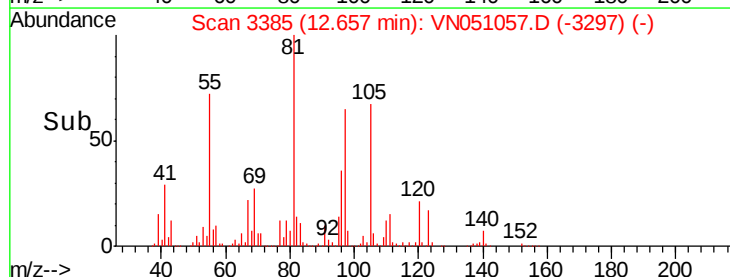
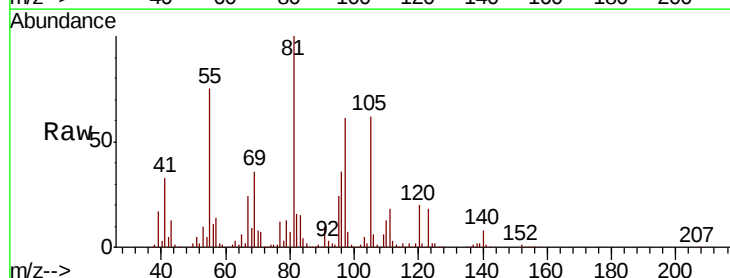
Acq: 7 Sep 2018 16:40

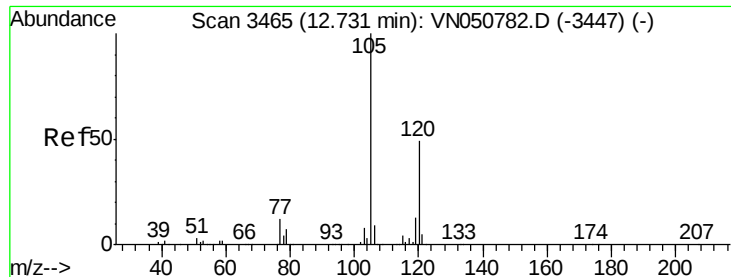
Tgt Ion: 91 Resp: 122927

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.3#





#80

1,3,5-Trimethylbenzene

Concen: 122.85 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

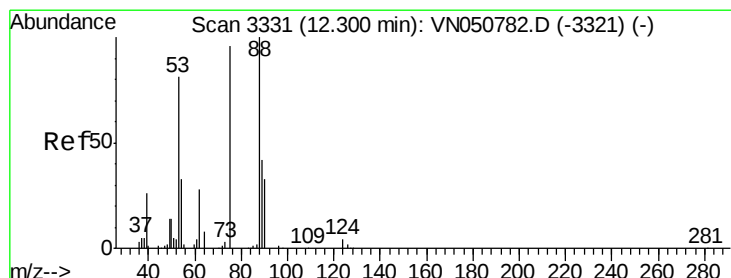
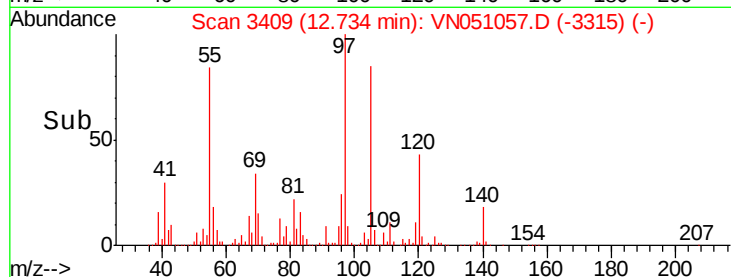
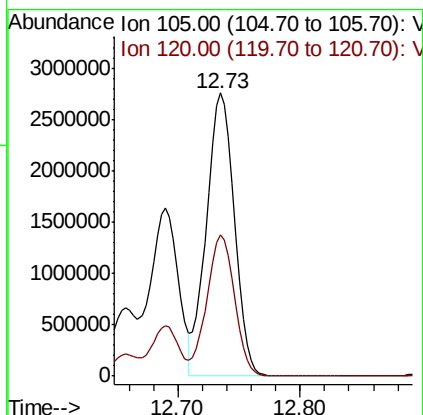
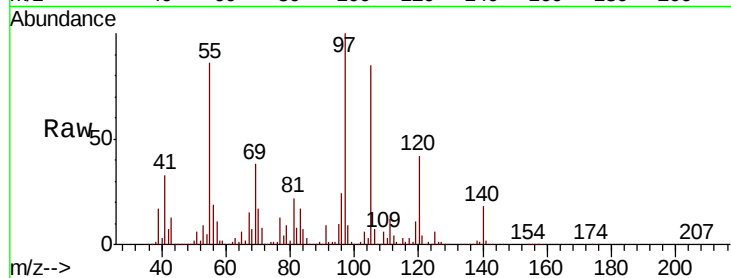
EP1-MW-D(10-15)

Tot Ion:105 Resp: 4420183

Ion Ratio Lower Upper

105 100

120 49.6 24.6 74.0



#81

trans-1,4-Dichloro-2-butene

Concen: 4.43 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. -0.05 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

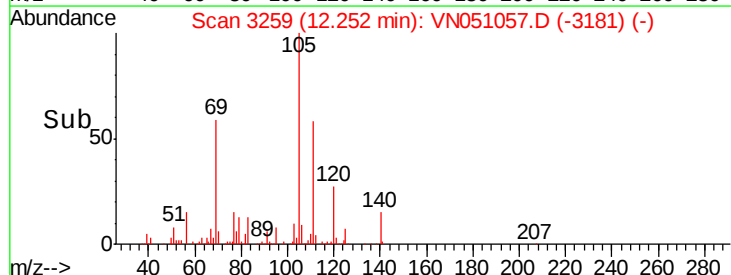
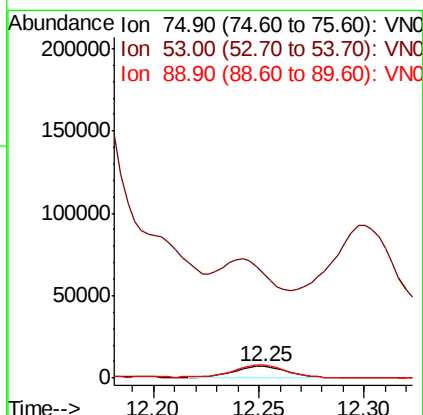
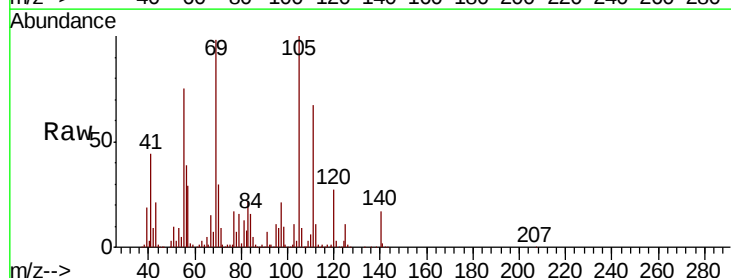
Tgt Ion: 75 Resp: 12353

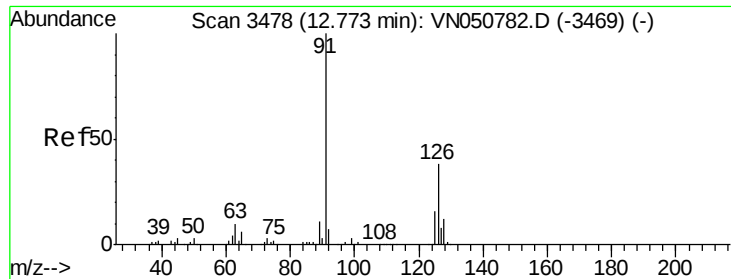
Ion Ratio Lower Upper

75 100

53 0.0 68.9 103.3#

89 105.6 36.1 54.1#





#82

4-Chlorotoluene

Concen: 15.35 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.04 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

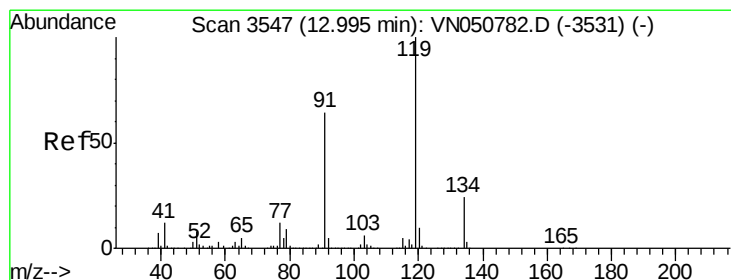
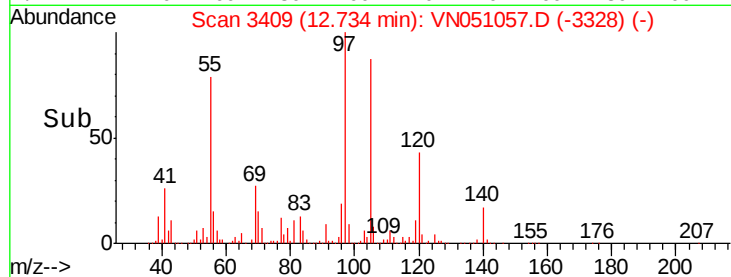
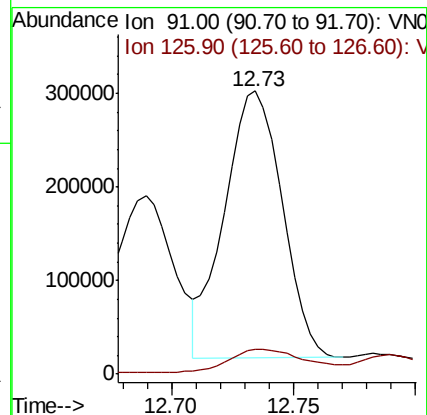
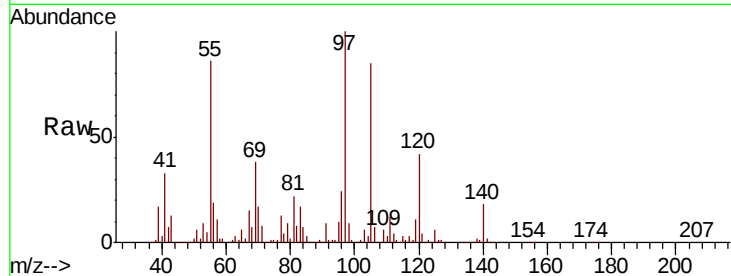
EP1-MW-D(10-15)

Tot Ion: 91 Resp: 470120

Ion Ratio Lower Upper

91 100

126 11.3 17.5 52.5#



#83

tert-Butylbenzene

Concen: 8.29 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

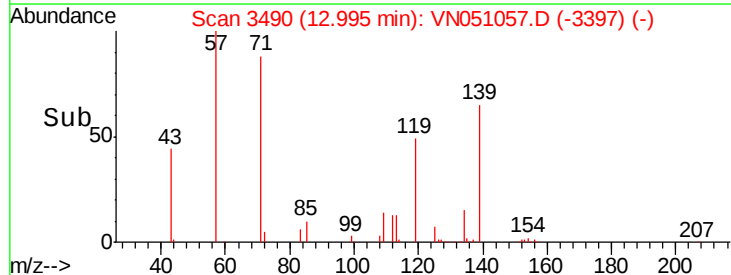
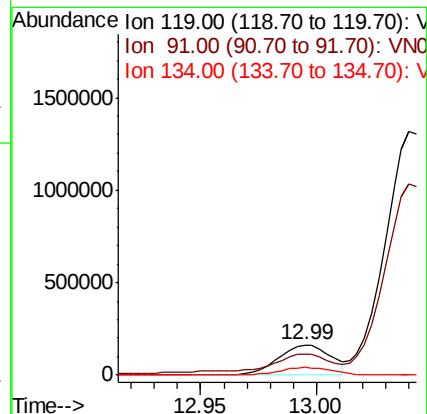
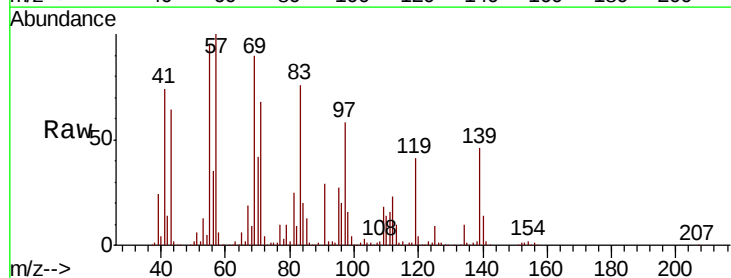
Tgt Ion: 119 Resp: 258330

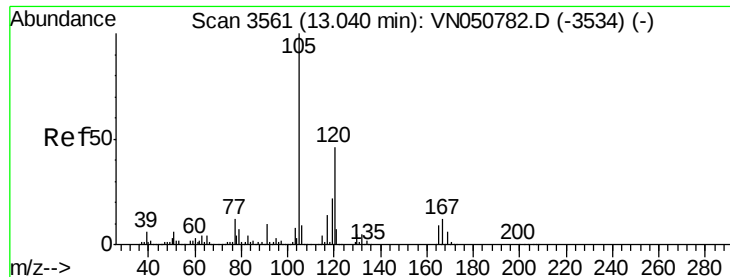
Ion Ratio Lower Upper

119 100

91 75.4 31.6 94.7

134 25.4 13.4 40.1





#84

1,2,4-Trimethylbenzene

Concen: 426.98 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

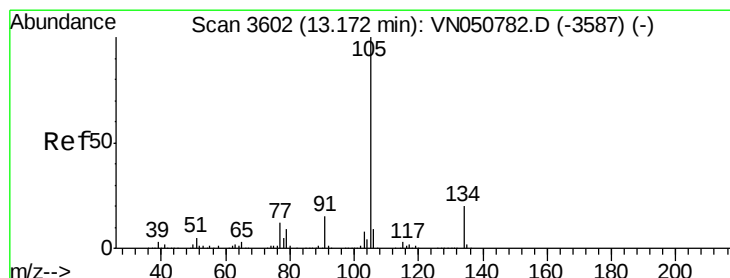
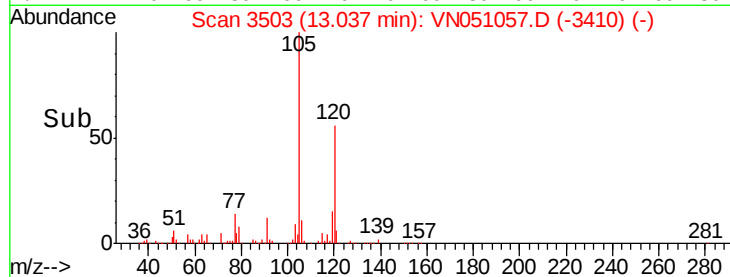
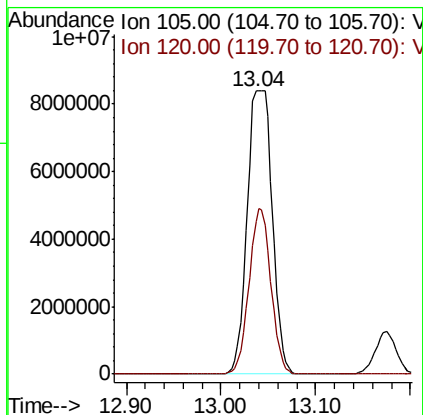
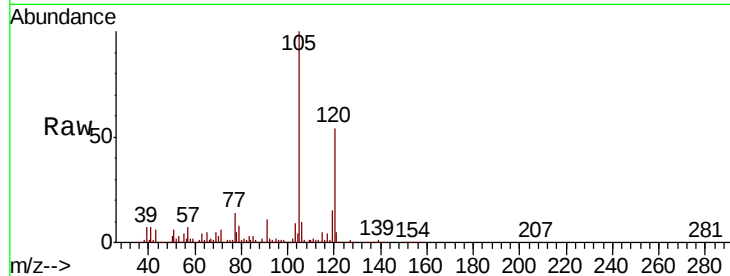
EP1-MW-D(10-15)

Tot Ion:105 Resp:15453145

Ion Ratio Lower Upper

105 100

120 50.9 22.9 68.8



#85

sec-Butylbenzene

Concen: 48.22 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN051057.D

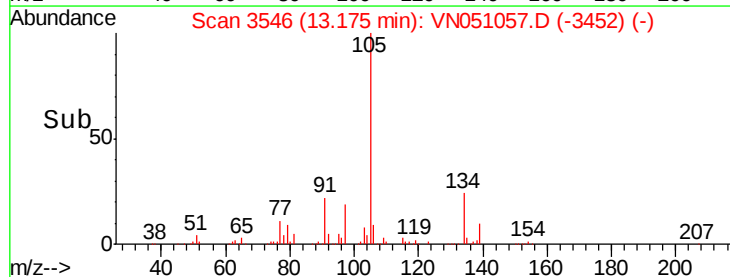
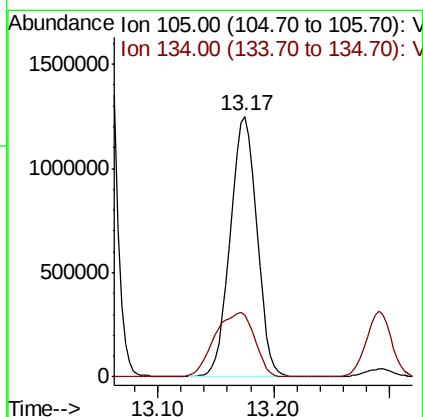
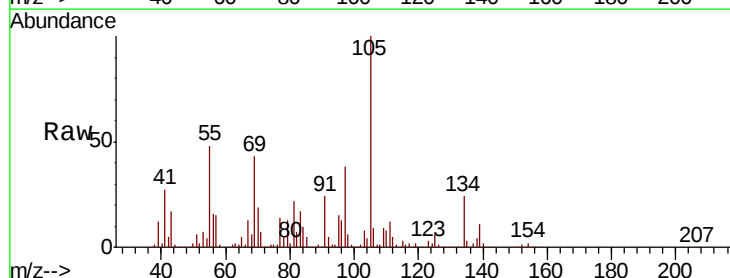
Acq: 7 Sep 2018 16:40

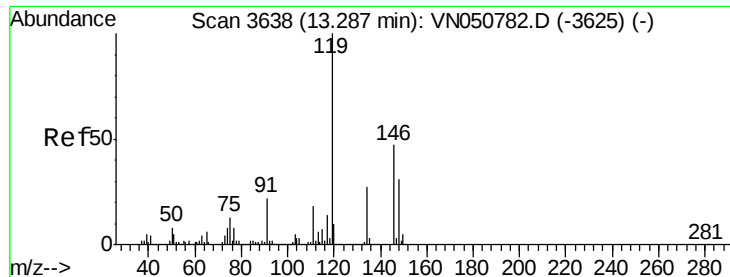
Tgt Ion:105 Resp: 1968951

Ion Ratio Lower Upper

105 100

134 37.5 10.3 30.8#

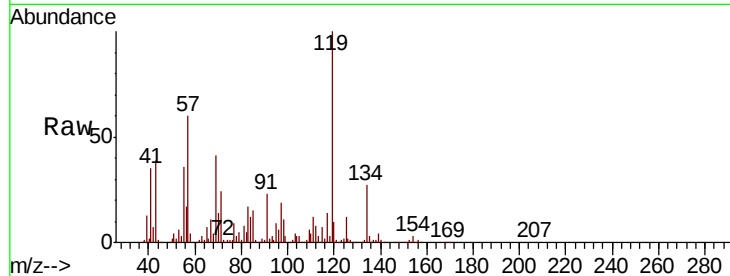




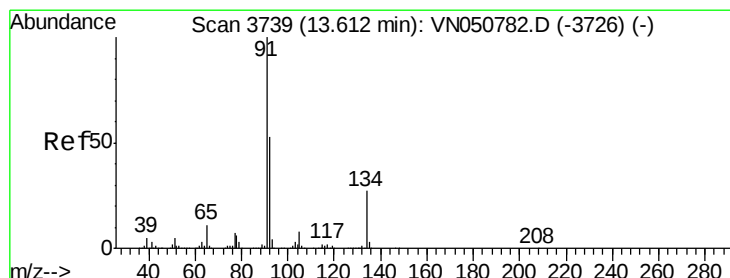
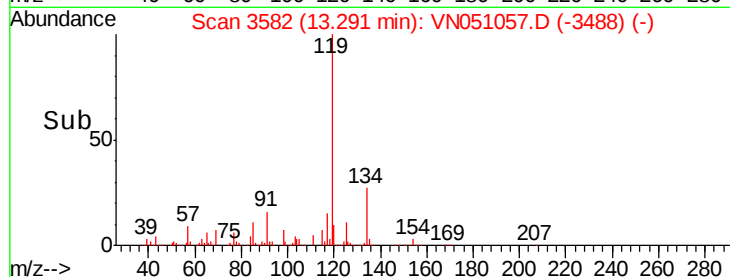
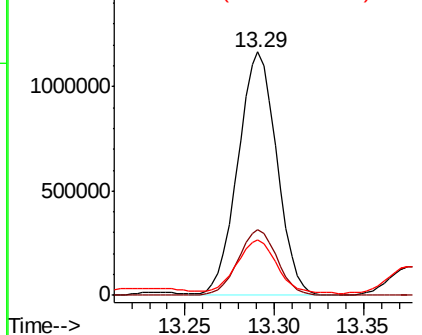
#86  
 p-Isopropyltoluene  
 Concen: 50.77 ug/l  
 RT: 13.29 min Scan# 3582  
 Delta R.T. 0.00 min  
 Lab File: VN051057.D  
 Acq: 7 Sep 2018 16:40

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EP1-MW-D(10-15)

Tot Ion:119 Resp: 1766324  
 Ion Ratio Lower Upper  
 119 100  
 134 26.8 13.7 41.0  
 91 22.5 11.2 33.5

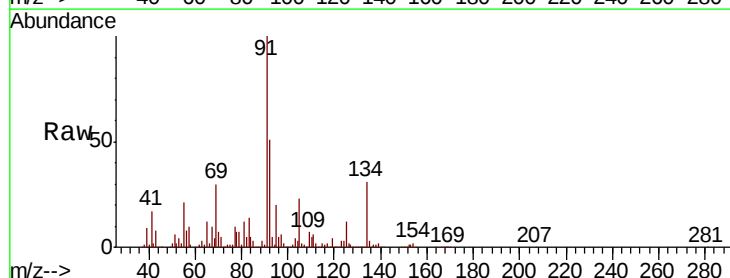


Abundance Ion 119.00 (118.70 to 119.70): V  
 Ion 134.00 (133.70 to 134.70): V  
 Ion 91.00 (90.70 to 91.70): V

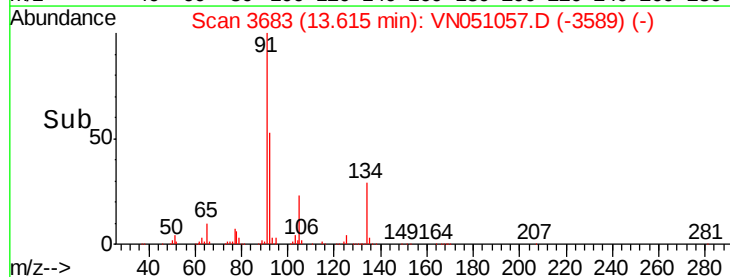
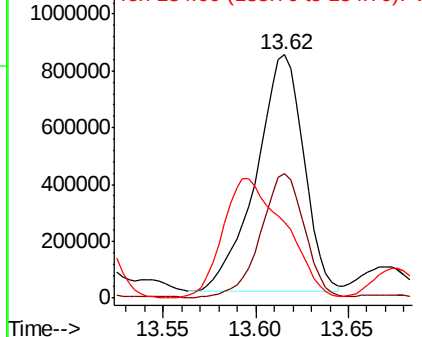


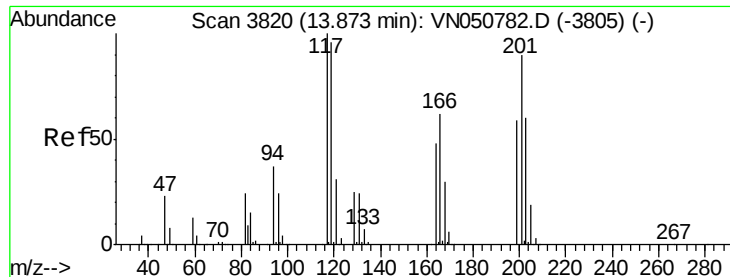
#89  
 n-Butylbenzene  
 Concen: 53.39 ug/l  
 RT: 13.62 min Scan# 3683  
 Delta R.T. 0.00 min  
 Lab File: VN051057.D  
 Acq: 7 Sep 2018 16:40

Tgt Ion: 91 Resp: 1485550  
 Ion Ratio Lower Upper  
 91 100  
 92 47.9 26.1 78.2  
 134 0.0 13.2 39.6#



Abundance Ion 91.00 (90.70 to 91.70): V  
 Ion 92.00 (91.70 to 92.70): V  
 Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 37.84 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.02 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

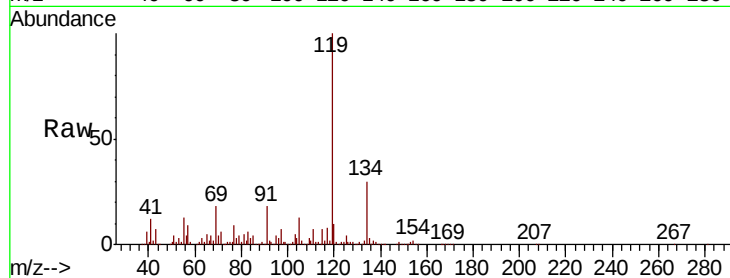
EP1-MW-D(10-15)

Tot Ion:117 Resp: 250580

Ion Ratio Lower Upper

117 100

201 0.0 46.0 137.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

300000

250000

200000

150000

100000

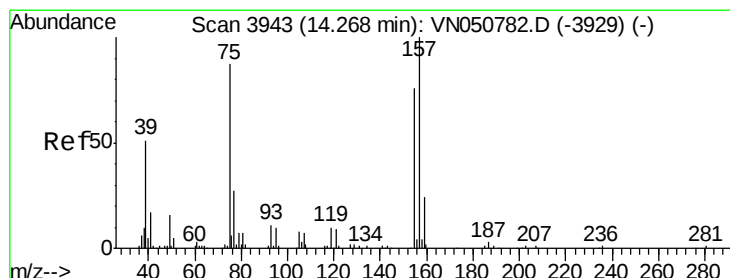
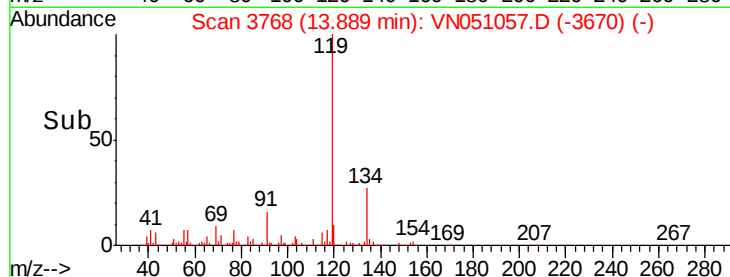
50000

0

13.85

13.89

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.53 ug/l

RT: 14.25 min Scan# 3880

Delta R.T. -0.02 min

Lab File: VN051057.D

Acq: 7 Sep 2018 16:40

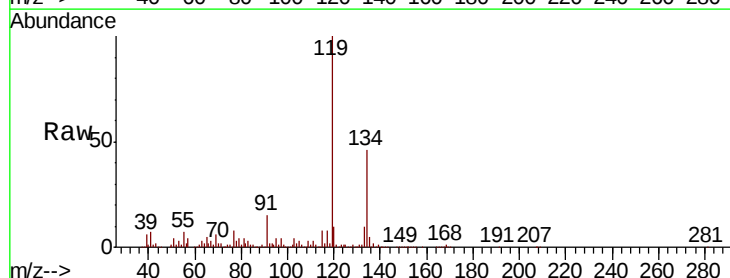
Tgt Ion: 75 Resp: 8848

Ion Ratio Lower Upper

75 100

155 0.0 46.4 139.1#

157 0.0 60.7 182.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

8000

6000

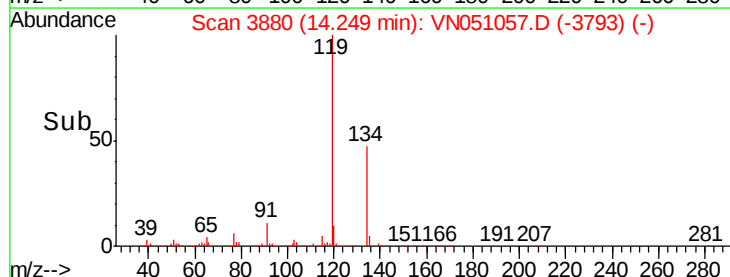
4000

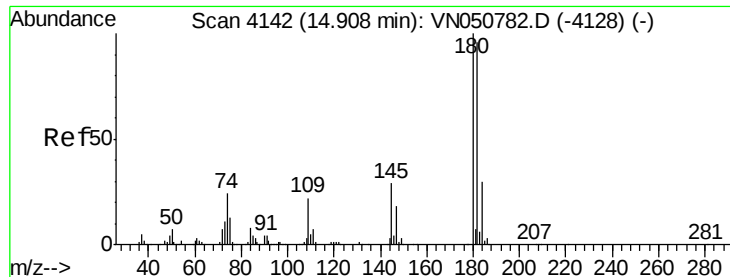
2000

0

14.25

Time-->

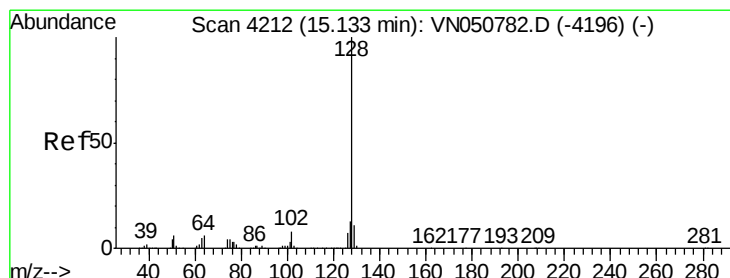
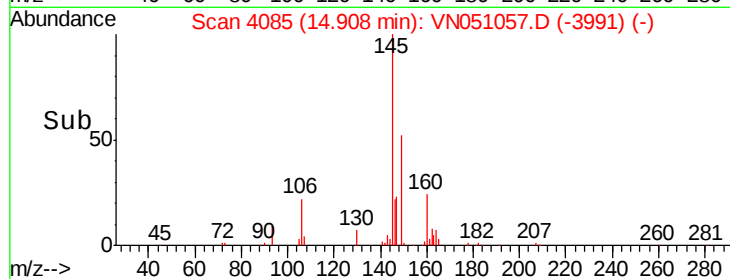
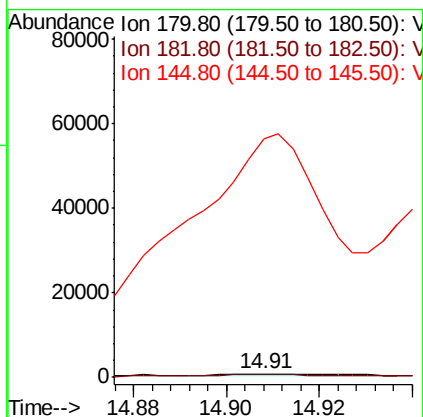
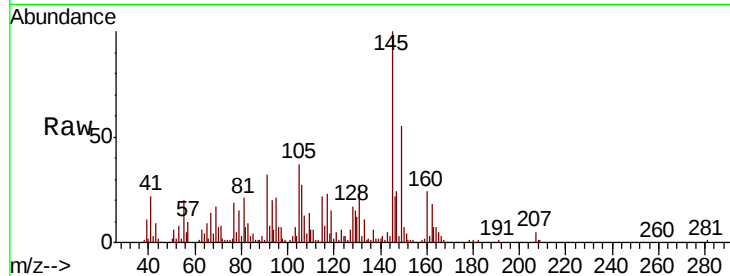




#93  
 1,2,4-Trichlorobenzene  
 Concen: 4.12 ug/l  
 RT: 14.91 min Scan# 4085  
 Delta R.T. 0.00 min  
 Lab File: VN051057.D  
 Acq: 7 Sep 2018 16:40

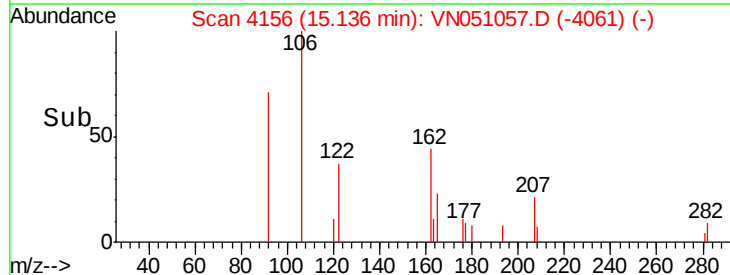
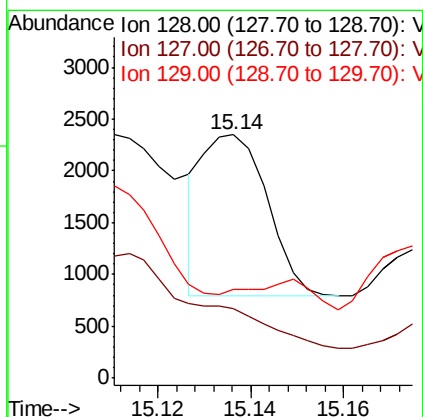
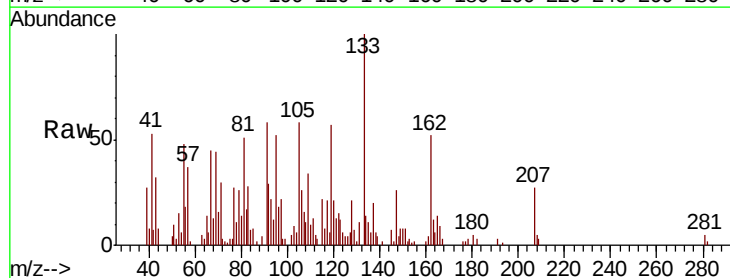
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EP1-MW-D(10-15)

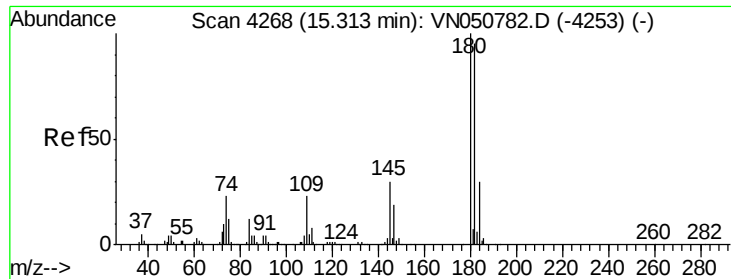
Tot Ion:180 Resp: 422  
 Ion Ratio Lower Upper  
 180 100  
 182 323.0 48.2 144.6#  
 145 33075.8 14.1 42.2#



#95  
 Naphthalene  
 Concen: 5.46 ug/l  
 RT: 15.14 min Scan# 4156  
 Delta R.T. 0.00 min  
 Lab File: VN051057.D  
 Acq: 7 Sep 2018 16:40

Tgt Ion:128 Resp: 1507  
 Ion Ratio Lower Upper  
 128 100  
 127 0.0 10.5 15.7#  
 129 0.0 8.7 13.1#

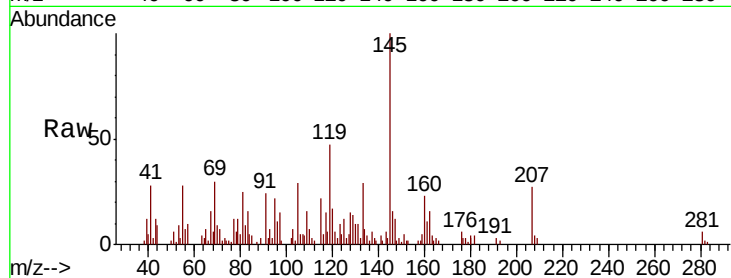




#96  
 1,2,3-Trichlorobenzene  
 Concen: 3.31 ug/l  
 RT: 15.32 min Scan# 4213  
 Delta R.T. 0.01 min  
 Lab File: VN051057.D  
 Acq: 7 Sep 2018 16:40

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EP1-MW-D(10-15)

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 713.8 | 48.0  | 144.2# |
| 145     | 0.0   | 15.2  | 45.6#  |



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

