

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091318\  
 Data File : VN051164.D  
 Acq On : 13 Sep 2018 11:53  
 Operator : MD\SY  
 Sample : PB112798ZHE#02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB112798ZHE#02

Quant Time: Sep 14 01:05:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 02:27:09 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 573142   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 909142   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 780003   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 256273   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 352220   | 55.22 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.44% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 339430   | 49.69 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.38%  |      |
| 50) Toluene-d8            | 10.09  | 98  | 1239974  | 47.83 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.66%  |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 335627   | 39.14 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 78.28%  |      |

## Target Compounds

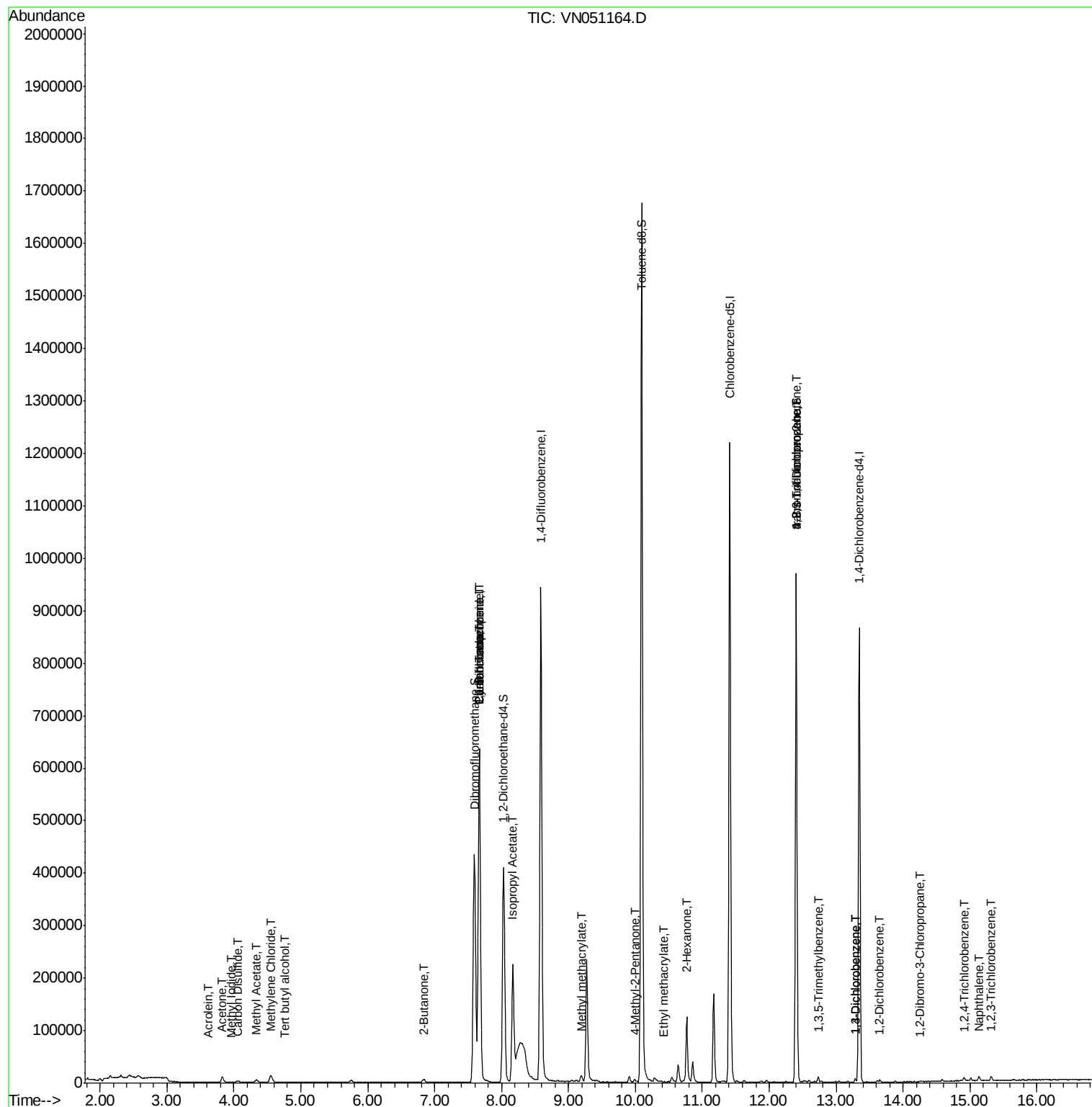
|                                |       |     |        |           |        | Qvalue |
|--------------------------------|-------|-----|--------|-----------|--------|--------|
| 3) Chloromethane               | 2.06  | 50  | 2409   | Below Cal |        | 91     |
| 5) Bromomethane                | 2.57  | 94  | 2773   | Below Cal |        | 98     |
| 10) Methyl Iodide              | 3.95  | 142 | 754    | 5.74      | ug/l # | 49     |
| 11) Tert butyl alcohol         | 4.75  | 59  | 224    | 0.46      | ug/l # | 73     |
| 13) Acrolein                   | 3.61  | 56  | 30     | 24.33     | ug/l # | 13     |
| 16) Acetone                    | 3.83  | 43  | 17519  | 5.40      | ug/l   | 98     |
| 17) Carbon Disulfide           | 4.05  | 76  | 4579   | 0.37      | ug/l   | 100    |
| 18) Methyl Acetate             | 4.34  | 43  | 9801   | 1.92      | ug/l   | 95     |
| 20) Methylene Chloride         | 4.55  | 84  | 10561  | 1.50      | ug/l   | 93     |
| 25) 2-Butanone                 | 6.84  | 43  | 1022   | 0.41      | ug/l # | 82     |
| 31) Cyclohexane                | 7.66  | 56  | 9975   | 0.73      | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75  | 37563  | 3.76      | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.67  | 117 | 48164  | 4.90      | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.17  | 43  | 264361 | 25.92     | ug/l # | 88     |
| 48) Methyl methacrylate        | 9.18  | 41  | 7365   | 1.48      | ug/l # | 19     |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43  | 3672   | 0.65      | ug/l # | 81     |
| 56) Ethyl methacrylate         | 10.44 | 69  | 383    | 2.50      | ug/l # | 29     |
| 59) 2-Hexanone                 | 10.77 | 43  | 18867  | 4.93      | ug/l # | 58     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83  | 499    | Below Cal | #      | 55     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 155785 | 38.88     | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105 | 4998   | 0.29      | ug/l   | 99     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 155785 | 115.45    | ug/l # | 15     |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146 | 2344   | 0.24      | ug/l   | 95     |
| 88) 1,4-Dichlorobenzene        | 13.28 | 146 | 2344   | 0.27      | ug/l   | 96     |
| 90) Hexachloroethane           | 13.62 | 117 | 30     | Below Cal | #      | 2      |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146 | 2326   | 0.24      | ug/l   | 95     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.26 | 75  | 139    | 0.84      | ug/l # | 55     |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180 | 2950   | 4.57      | ug/l   | 96     |
| 94) Hexachlorobutadiene        | 15.01 | 225 | 1443   | Below Cal |        | 95     |
| 95) Naphthalene                | 15.13 | 128 | 6909   | 5.98      | ug/l   | 99     |
| 96) 1,2,3-Trichlorobenzene     | 15.31 | 180 | 2918   | 3.57      | ug/l   | 89     |

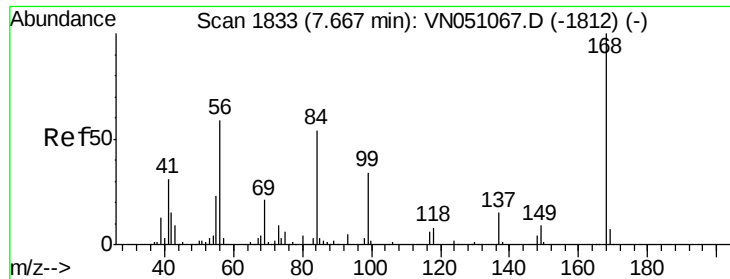
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091318\  
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Sample : PB112798ZHE#02  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 9 Sample Multiplier: 1

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Quant Time: Sep 14 01:05:43 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091018W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 11 02:27:09 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

Instrument :

MSVOA\_N

ClientSampleId :

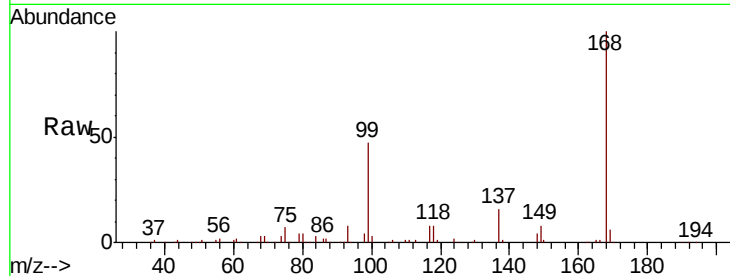
PB112798ZHE#02

Tot Ion:168 Resp: 573142

Ion Ratio Lower Upper

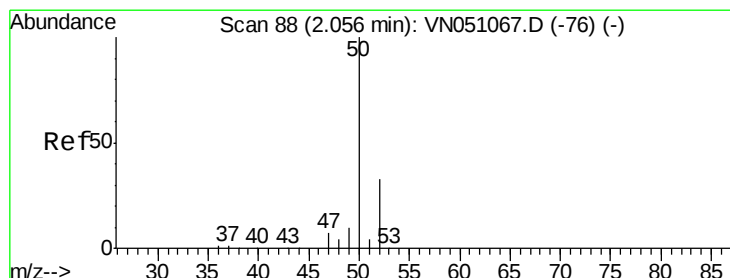
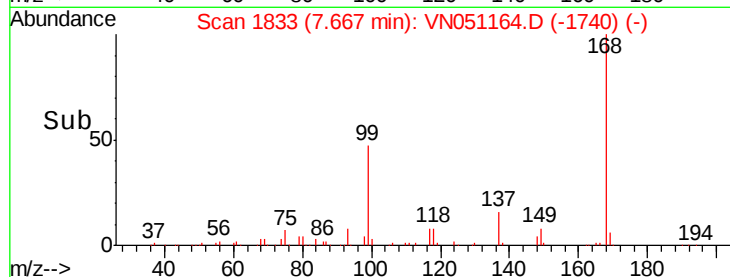
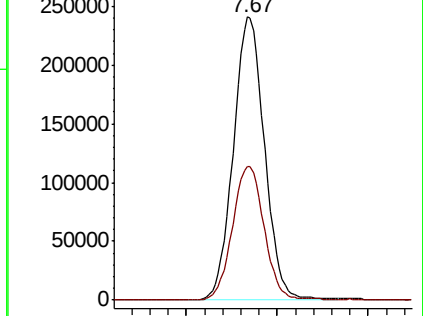
168 100

99 47.2 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051164.D

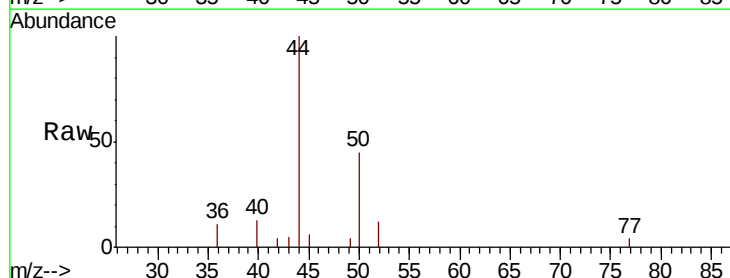
Acq: 13 Sep 2018 11:53

Tgt Ion: 50 Resp: 2409

Ion Ratio Lower Upper

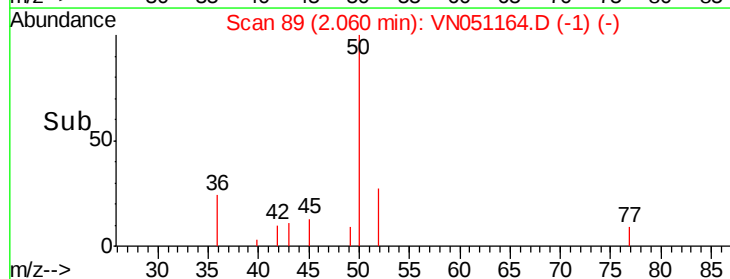
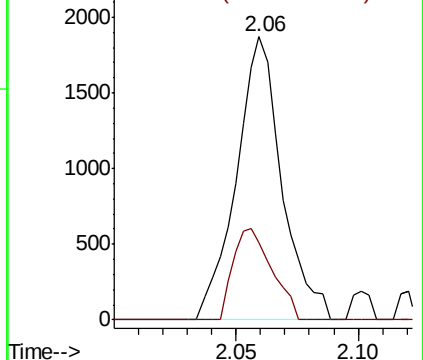
50 100

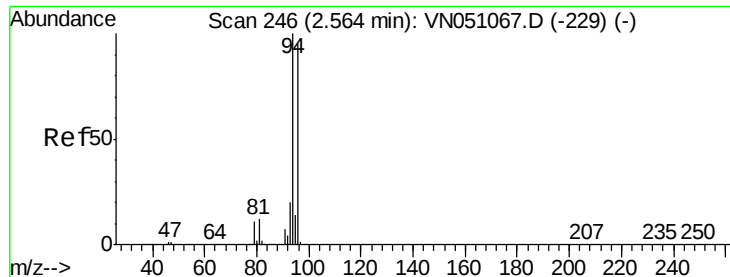
52 27.5 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

Instrument :

MSVOA\_N

ClientSampleId :

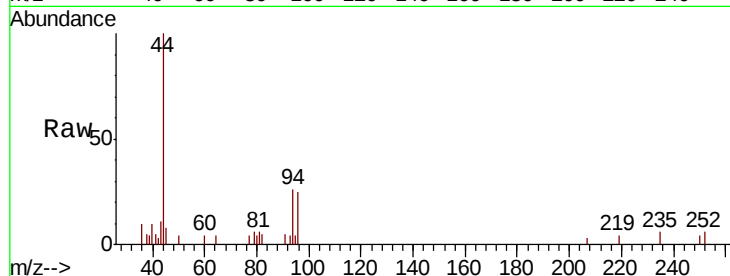
PB112798ZHE#02

Tot Ion: 94 Resp: 2773

Ion Ratio Lower Upper

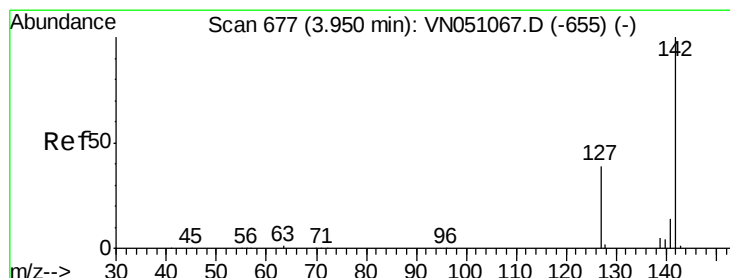
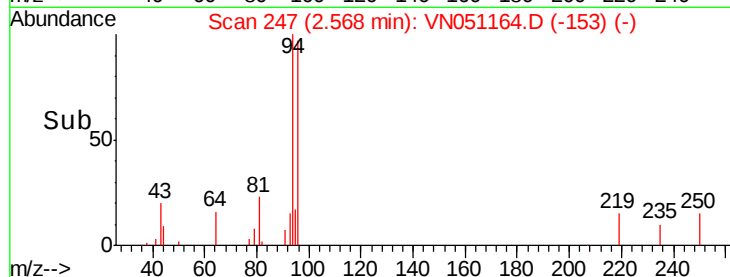
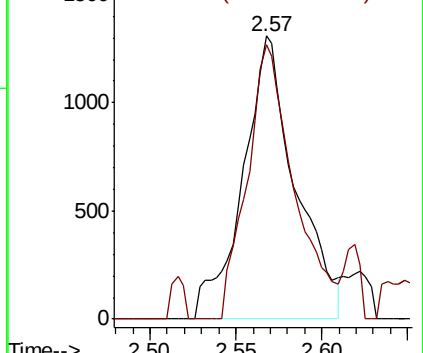
94 100

96 96.8 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VN051164.D (-153) (-)

Ion 95.90 (95.60 to 96.60): VN051164.D (-153) (-)



#10

Methyl Iodide

Concen: 5.74 ug/l

RT: 3.95 min Scan# 677

Delta R.T. 0.00 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

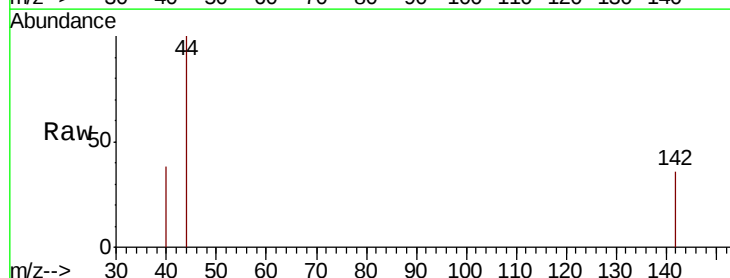
Tgt Ion: 142 Resp: 754

Ion Ratio Lower Upper

142 100

127 3.8 31.0 46.4#

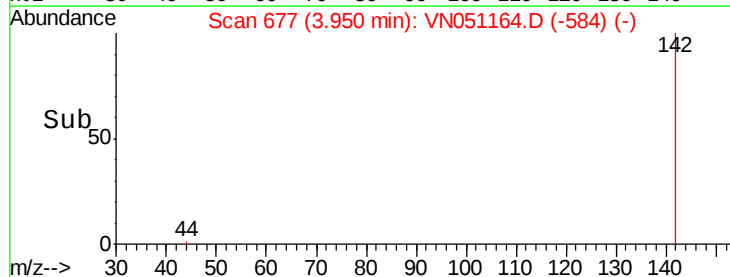
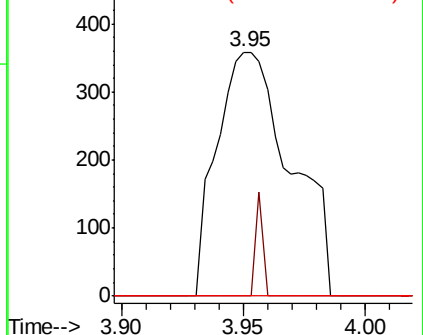
141 0.0 11.3 16.9#

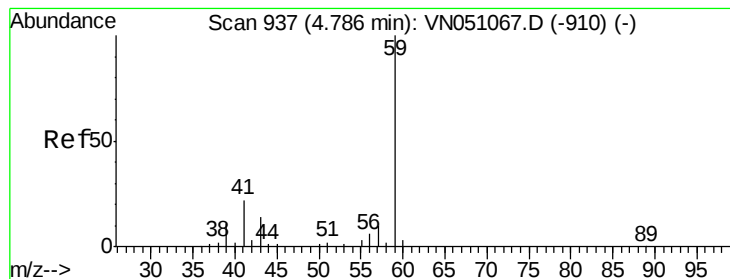


Abundance Ion 141.80 (141.50 to 142.50): VN051164.D (-584) (-)

Ion 126.80 (126.50 to 127.50): VN051164.D (-584) (-)

Ion 140.80 (140.50 to 141.50): VN051164.D (-584) (-)



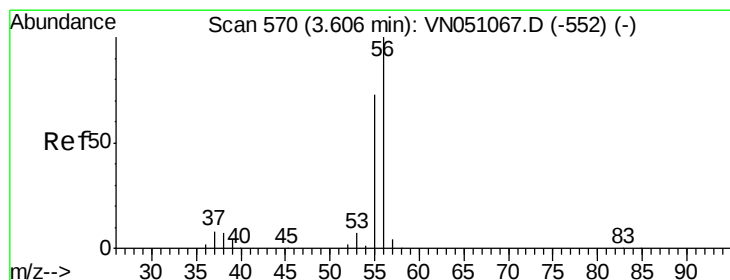
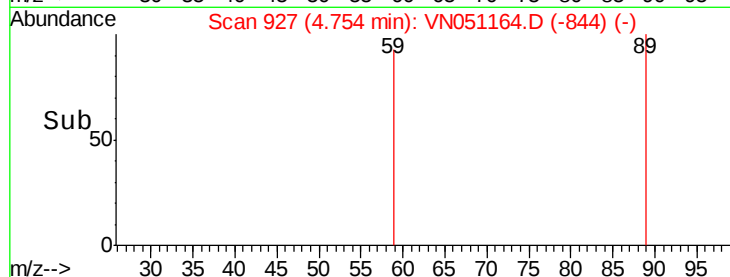
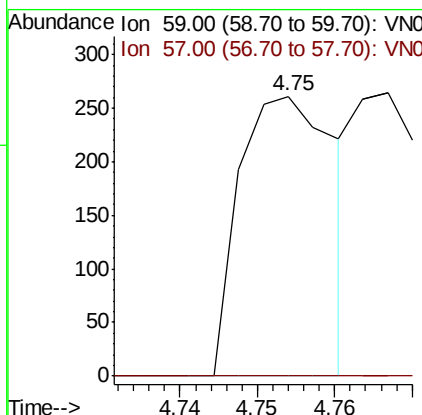
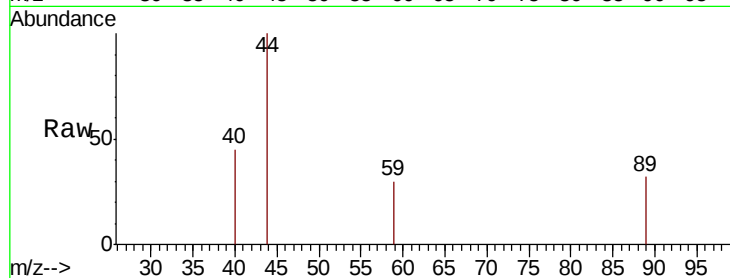


#11

Tert butyl alcohol  
 Concen: 0.46 ug/l  
 RT: 4.75 min Scan# 927  
 Delta R.T. -0.03 min  
 Lab File: VN051164.D  
 Acq: 13 Sep 2018 11:53

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB112798ZHE#02

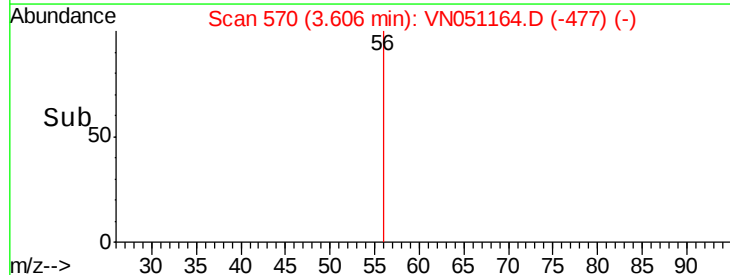
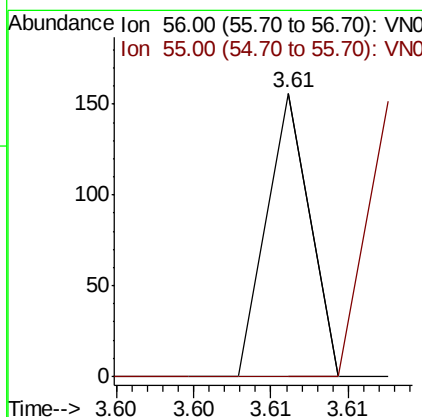
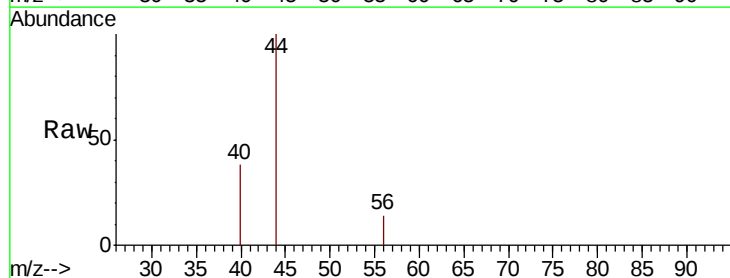
Tot Ion: 59 Resp: 224  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.1 12.1#

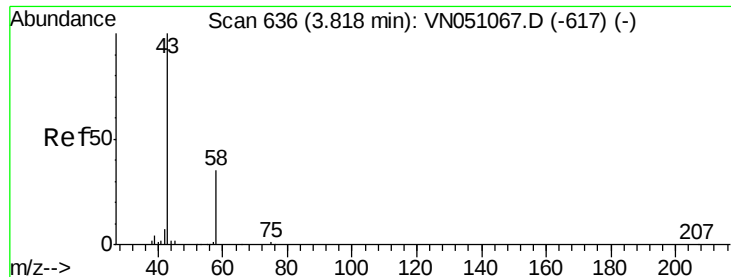


#13

Acrolein  
 Concen: 24.33 ug/l  
 RT: 3.61 min Scan# 570  
 Delta R.T. 0.00 min  
 Lab File: VN051164.D  
 Acq: 13 Sep 2018 11:53

Tgt Ion: 56 Resp: 30  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 58.0 87.0#





#16

Acetone

Concen: 5.40 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

Instrument :

MSVOA\_N

ClientSampleId :

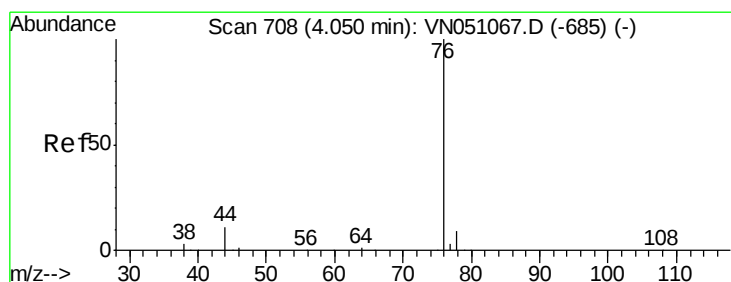
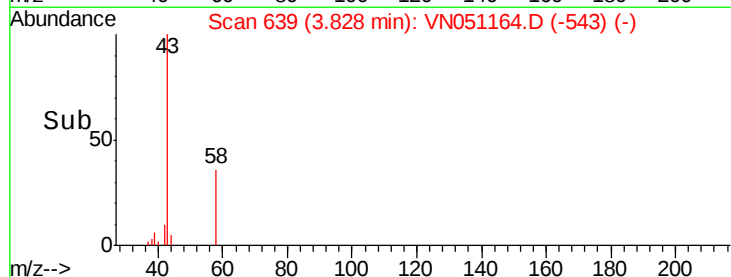
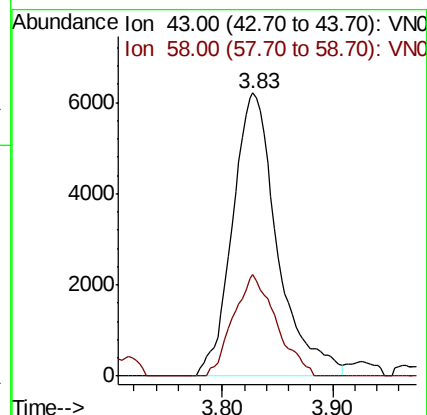
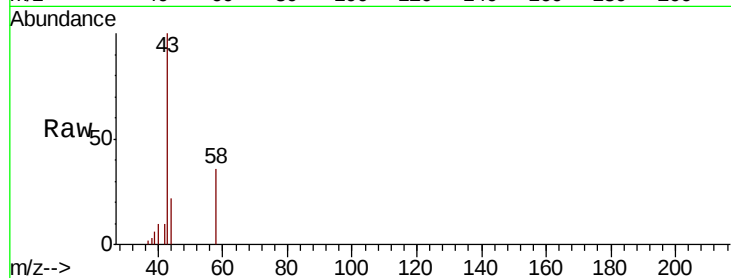
PB112798ZHE#02

Tot Ion: 43 Resp: 17519

Ion Ratio Lower Upper

43 100

58 35.7 27.8 41.6



#17

Carbon Disulfide

Concen: 0.37 ug/l

RT: 4.05 min Scan# 707

Delta R.T. -0.00 min

Lab File: VN051164.D

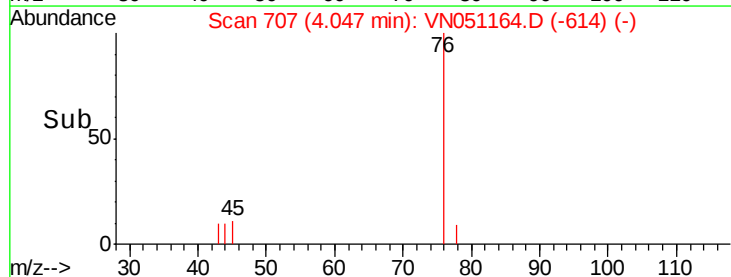
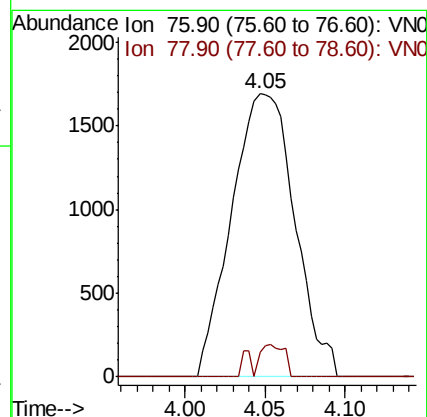
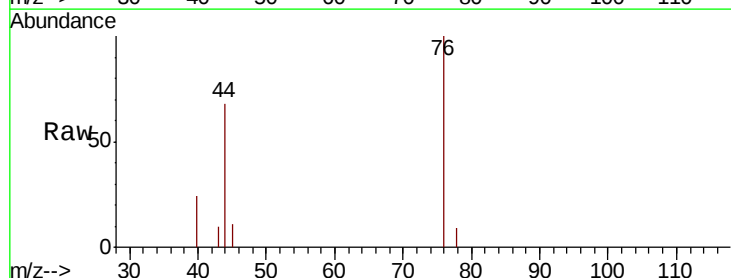
Acq: 13 Sep 2018 11:53

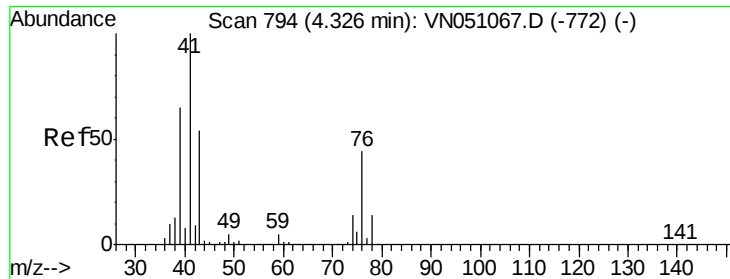
Tgt Ion: 76 Resp: 4579

Ion Ratio Lower Upper

76 100

78 8.9 7.0 10.6

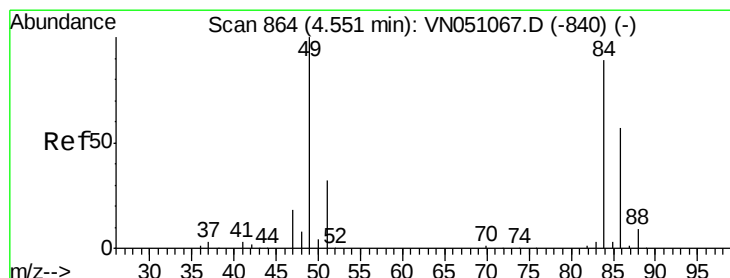
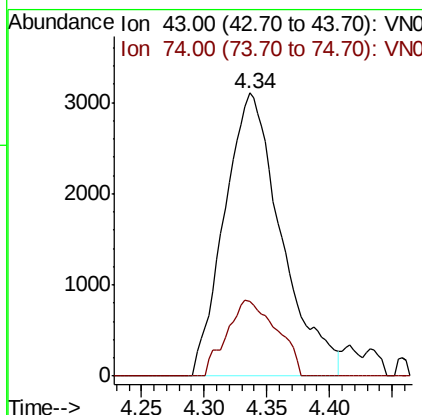
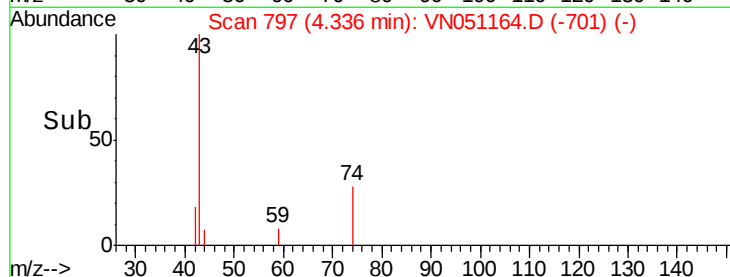
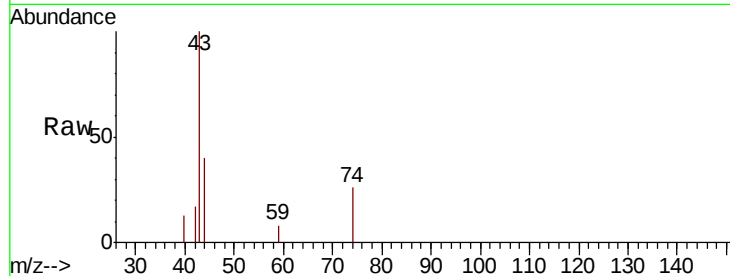




#18  
Methyl Acetate  
Concen: 1.92 ug/l  
RT: 4.34 min Scan# 797  
Delta R.T. 0.01 min  
Lab File: VN051164.D  
Acq: 13 Sep 2018 11:53

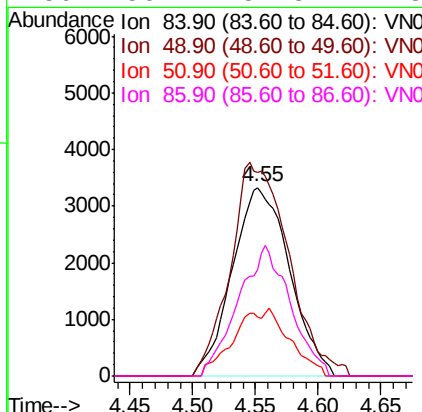
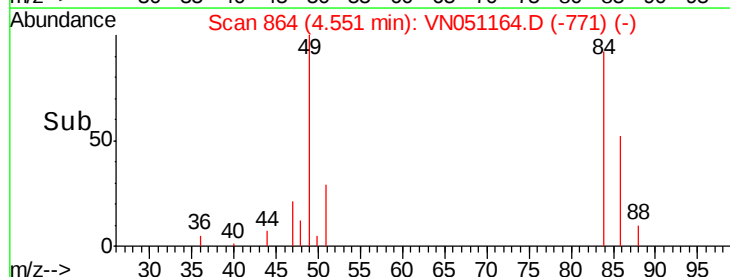
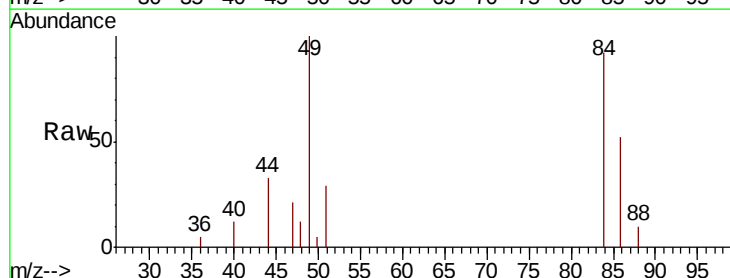
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ClientSampleId :  
PB112798ZHE#02

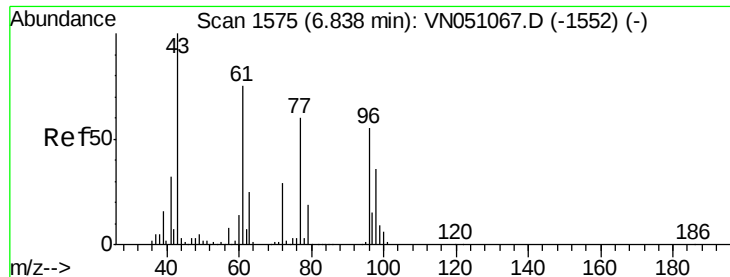
Tot Ion: 43 Resp: 9801  
Ion Ratio Lower Upper  
43 100  
74 23.5 20.7 31.1



#20  
Methylene Chloride  
Concen: 1.50 ug/l  
RT: 4.55 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VN051164.D  
Acq: 13 Sep 2018 11:53

Tgt Ion: 84 Resp: 10561  
Ion Ratio Lower Upper  
84 100  
49 108.1 90.2 135.2  
51 31.1 28.4 42.6  
86 56.7 51.8 77.8

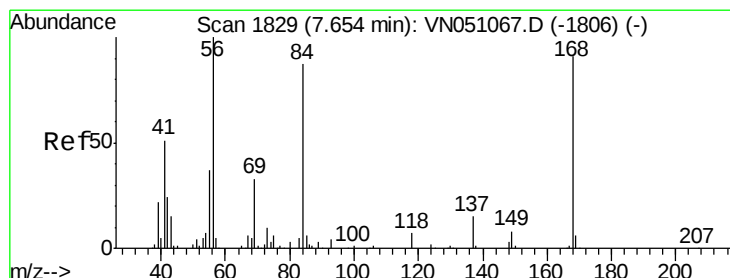
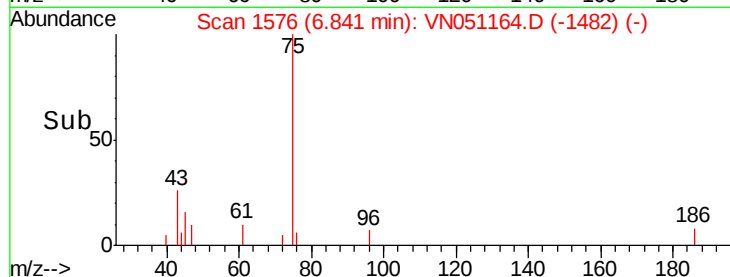
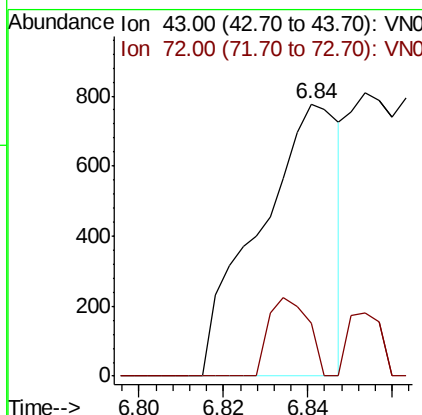
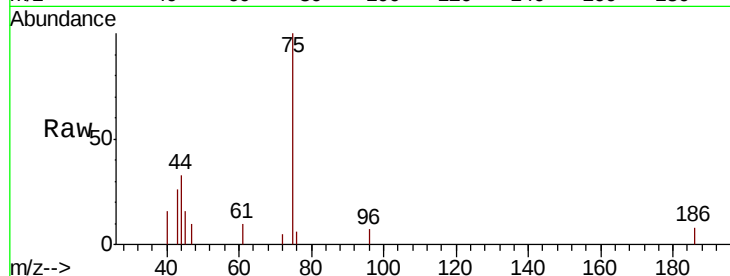




#25  
2-Butanone  
Concen: 0.41 ug/l  
RT: 6.84 min Scan# 1576  
Delta R.T. 0.00 min  
Lab File: VN051164.D  
Acq: 13 Sep 2018 11:53

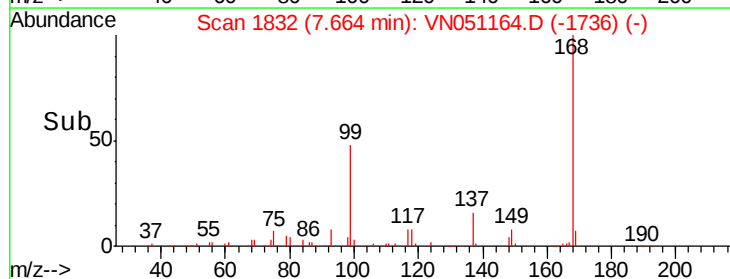
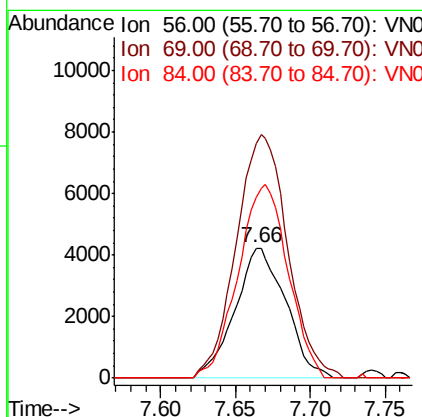
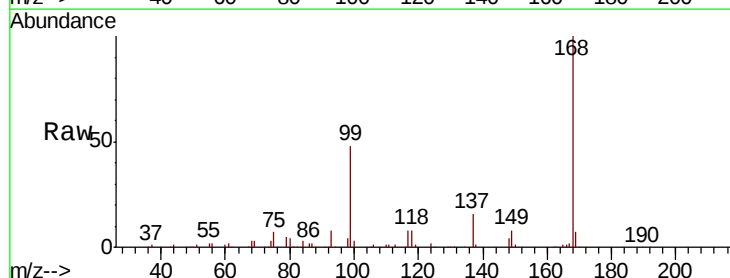
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB112798ZHE#02

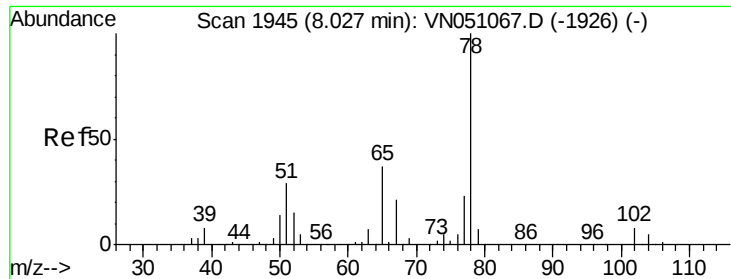
Tot Ion: 43 Resp: 1022  
Ion Ratio Lower Upper  
43 100  
72 19.4 23.0 34.6#



#31  
Cyclohexane  
Concen: 0.73 ug/l  
RT: 7.66 min Scan# 1832  
Delta R.T. 0.01 min  
Lab File: VN051164.D  
Acq: 13 Sep 2018 11:53

Tgt Ion: 56 Resp: 9975  
Ion Ratio Lower Upper  
56 100  
69 180.6 26.3 39.5#  
84 139.0 69.4 104.0#

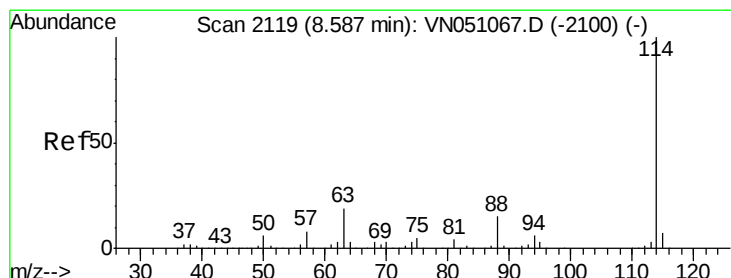
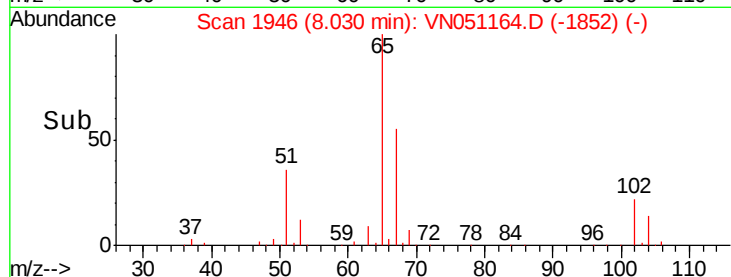
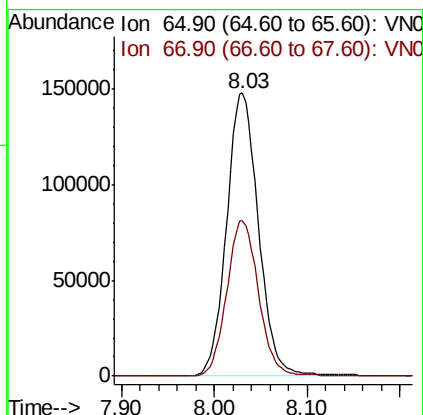
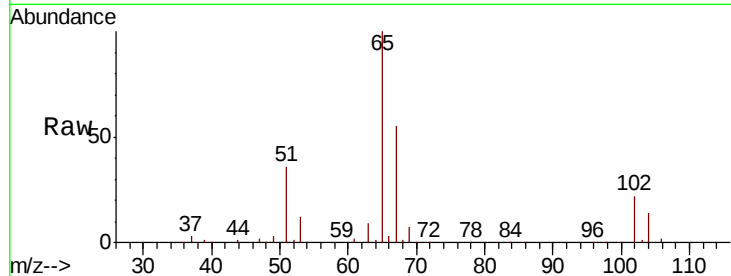




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.22 ug/l  
 RT: 8.03 min Scan# 1946  
 Delta R.T. 0.00 min  
 Lab File: VN051164.D  
 Acq: 13 Sep 2018 11:53

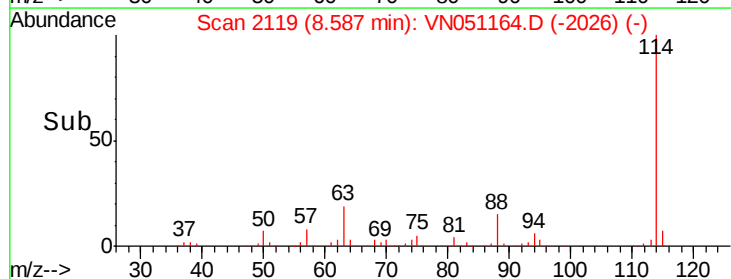
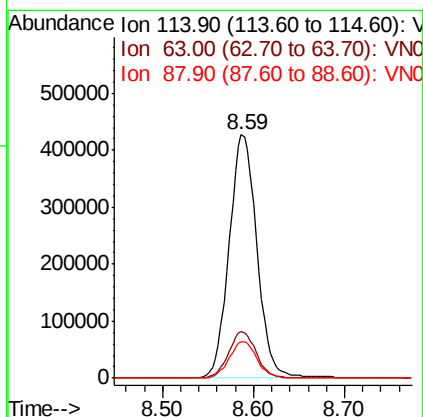
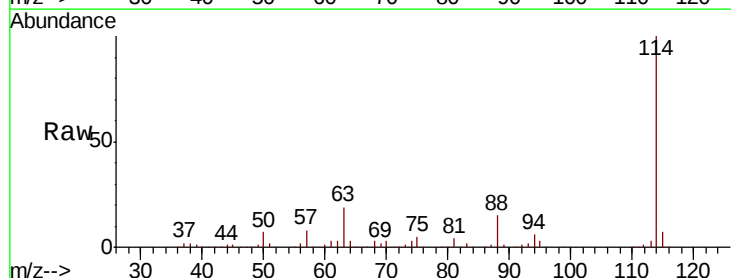
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB112798ZHE#02

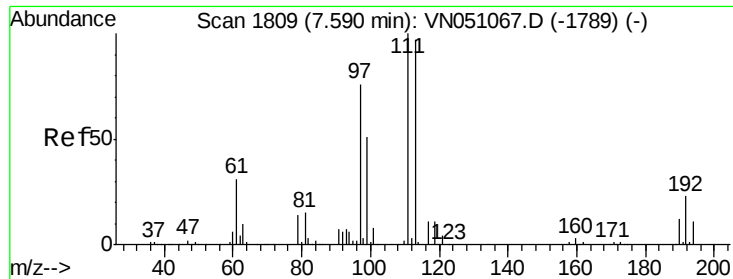
Tot Ion: 65 Resp: 352220  
 Ion Ratio Lower Upper  
 65 100  
 67 54.6 0.0 112.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN051164.D  
 Acq: 13 Sep 2018 11:53

Tgt Ion: 114 Resp: 909142  
 Ion Ratio Lower Upper  
 114 100  
 63 19.0 0.0 37.8  
 88 15.0 0.0 30.8

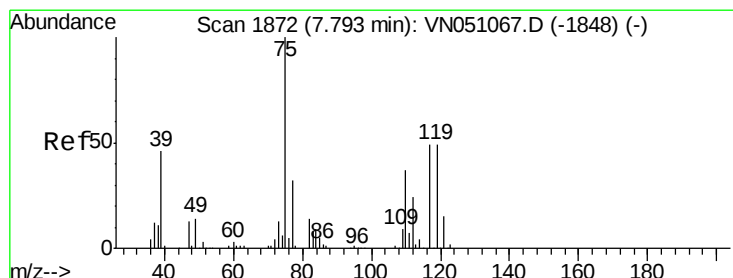
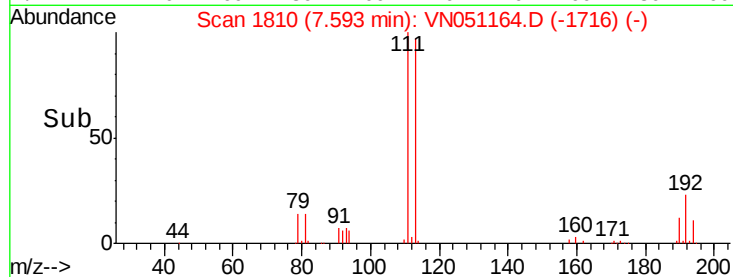
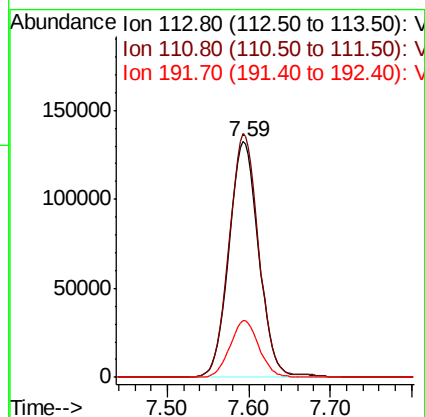
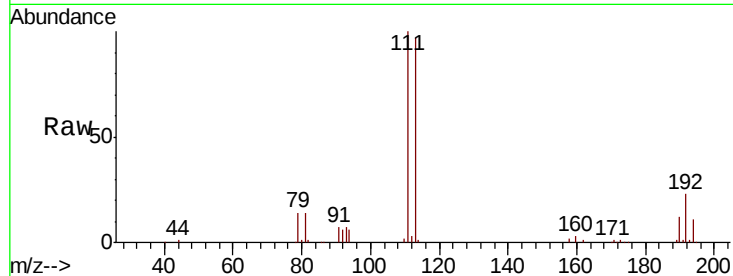




#35  
 Dibromofluoromethane  
 Concen: 49.69 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN051164.D  
 Acq: 13 Sep 2018 11:53

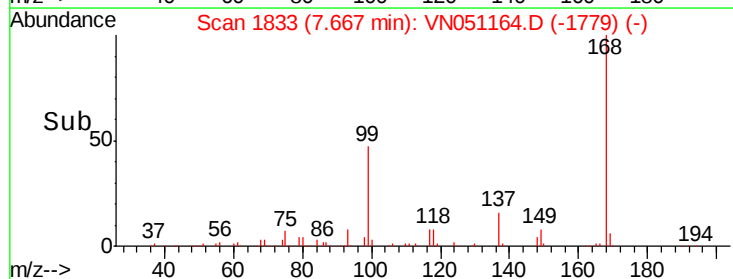
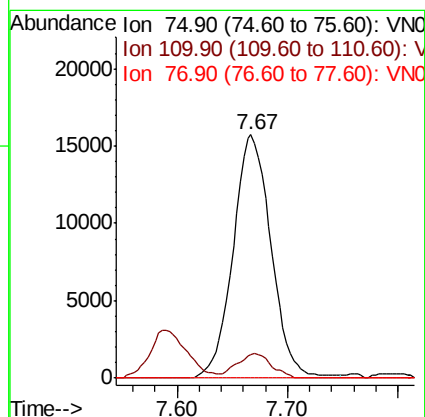
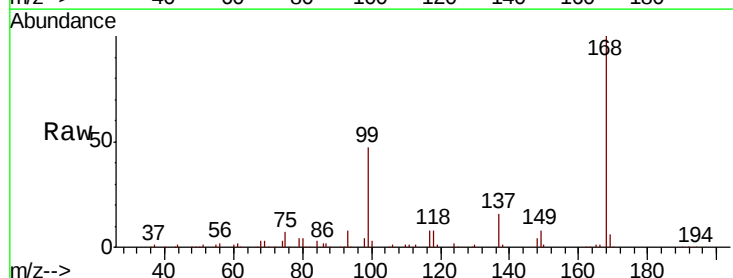
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB112798ZHE#02

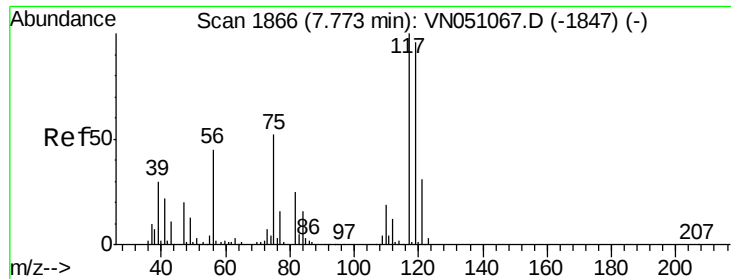
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.3 | 83.0  | 124.6 |
| 192     | 23.5  | 18.7  | 28.1  |



#36  
 1,1-Dichloropropene  
 Concen: 3.76 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.13 min  
 Lab File: VN051164.D  
 Acq: 13 Sep 2018 11:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.3   | 18.6  | 55.8# |
| 77      | 0.0   | 25.2  | 37.8# |

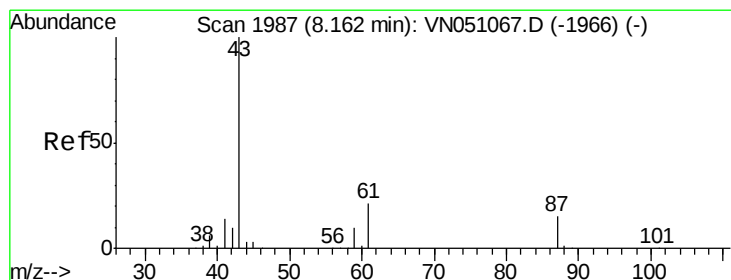
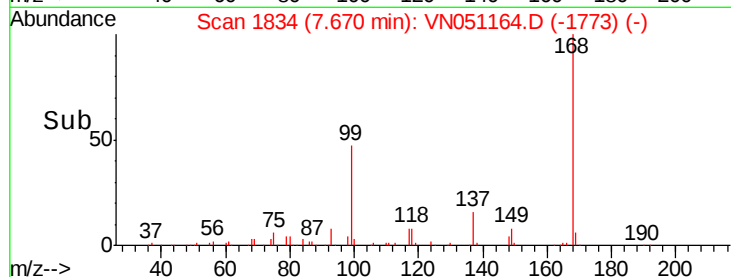
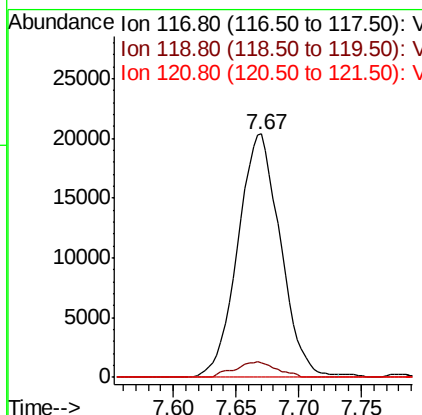
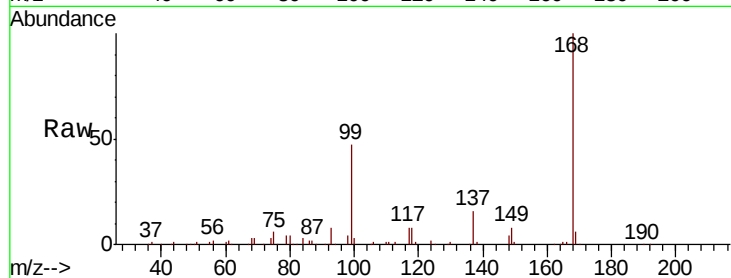




#38  
Carbon Tetrachloride  
Concen: 4.90 ug/l  
RT: 7.67 min Scan# 1834  
Delta R.T. -0.10 min  
Lab File: VN051164.D  
Acq: 13 Sep 2018 11:53

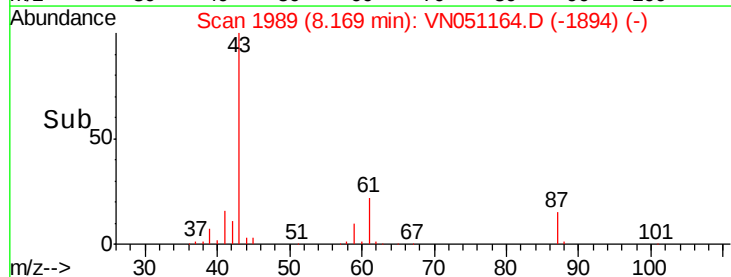
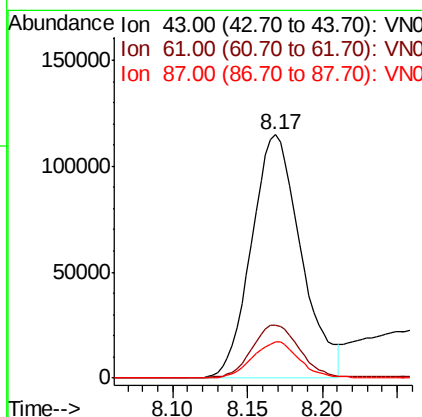
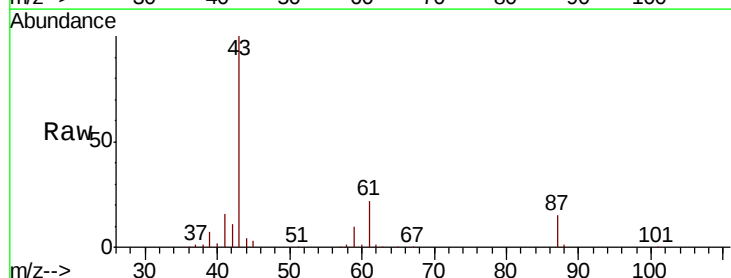
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB112798ZHE#02

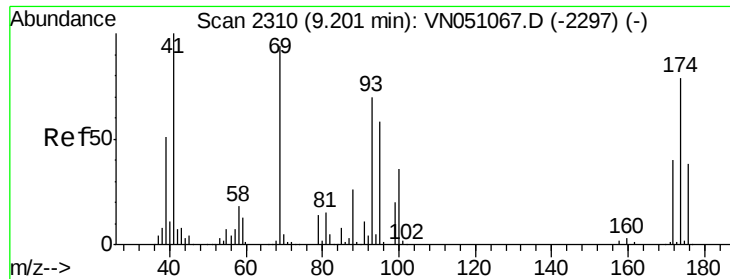
Tot Ion:117 Resp: 48164  
Ion Ratio Lower Upper  
117 100  
119 6.0 76.8 115.2#  
121 0.0 24.6 36.8#



#43  
Isopropyl Acetate  
Concen: 25.92 ug/l  
RT: 8.17 min Scan# 1989  
Delta R.T. 0.01 min  
Lab File: VN051164.D  
Acq: 13 Sep 2018 11:53

Tgt Ion: 43 Resp: 264361  
Ion Ratio Lower Upper  
43 100  
61 21.6 25.0 37.6#  
87 14.1 11.8 17.8

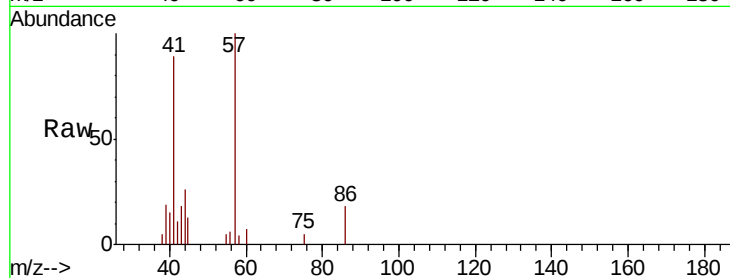




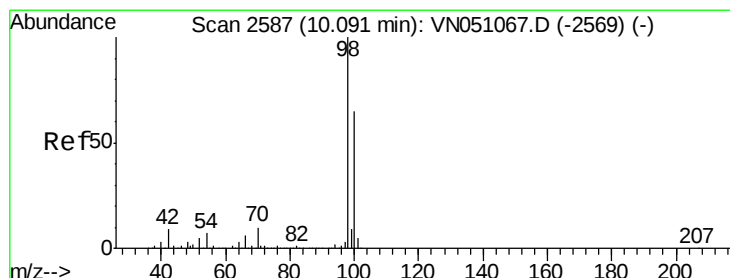
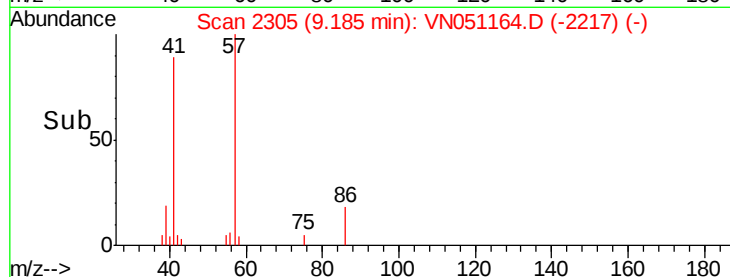
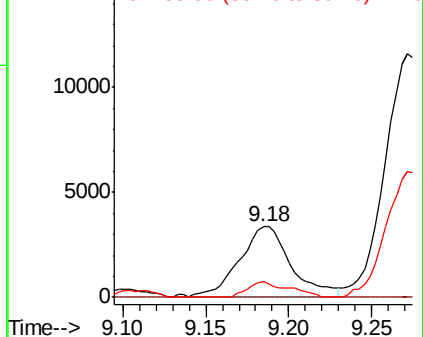
#48  
Methyl methacrylate  
Concen: 1.48 ug/l  
RT: 9.18 min Scan# 2305  
Delta R.T. -0.02 min  
Lab File: VN051164.D  
Acq: 13 Sep 2018 11:53

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB112798ZHE#02

Tot Ion: 41 Resp: 7365  
Ion Ratio Lower Upper  
41 100  
69 0.0 77.7 116.5#  
39 17.5 41.6 62.4#

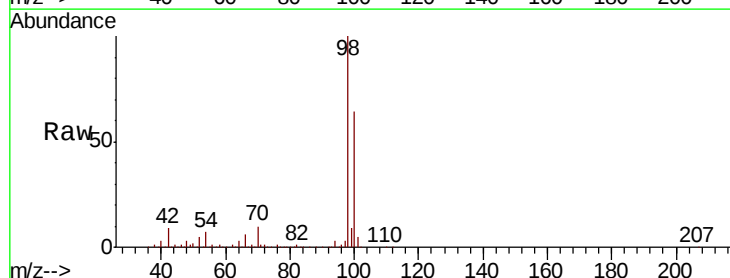


Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0

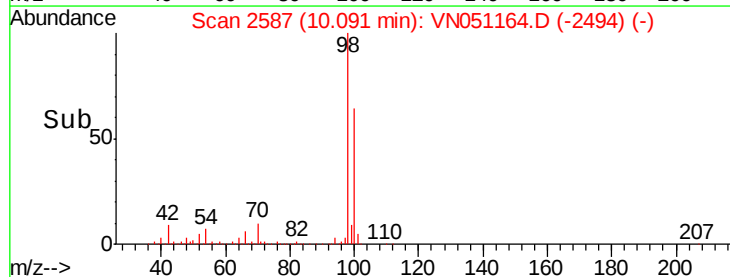
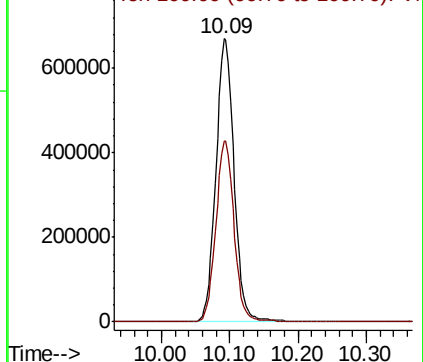


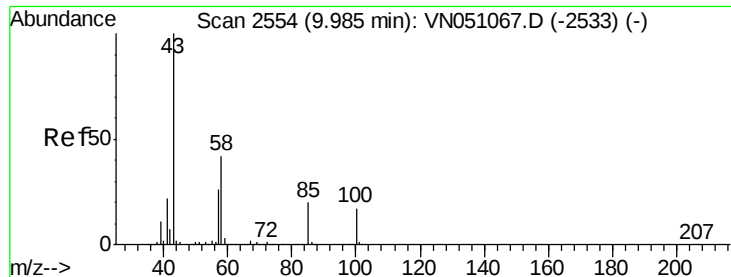
#50  
Toluene-d8  
Concen: 47.83 ug/l  
RT: 10.09 min Scan# 2587  
Delta R.T. -0.00 min  
Lab File: VN051164.D  
Acq: 13 Sep 2018 11:53

Tgt Ion: 98 Resp: 1239974  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0  
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.65 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

Instrument :

MSVOA\_N

ClientSampleId :

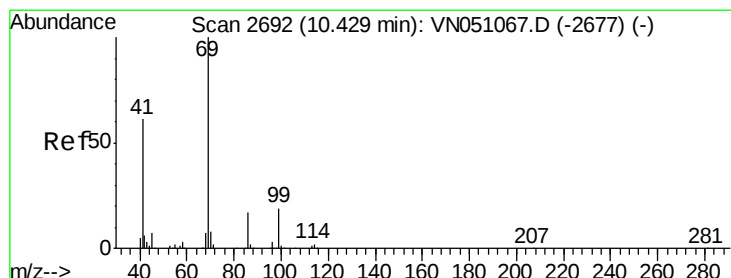
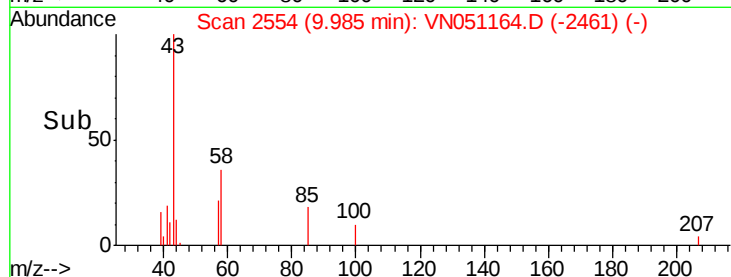
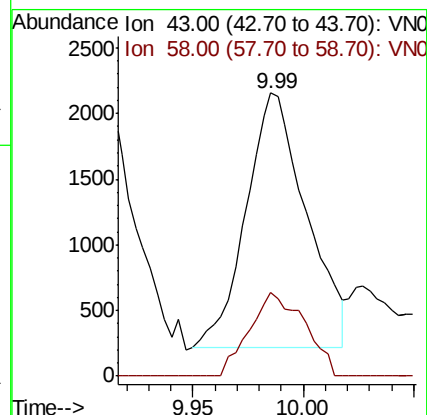
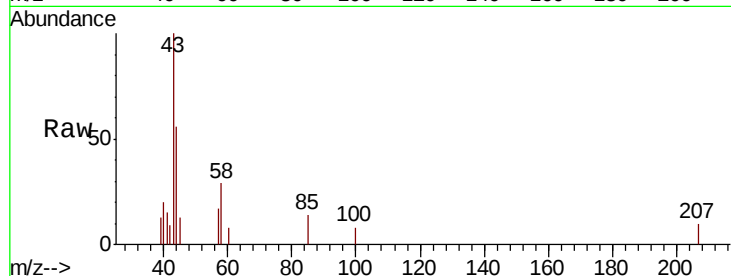
PB112798ZHE#02

Tot Ion: 43 Resp: 3672

Ion Ratio Lower Upper

43 100

58 30.0 33.5 50.3#



#56

Ethyl methacrylate

Concen: 2.50 ug/l

RT: 10.44 min Scan# 2694

Delta R.T. 0.01 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

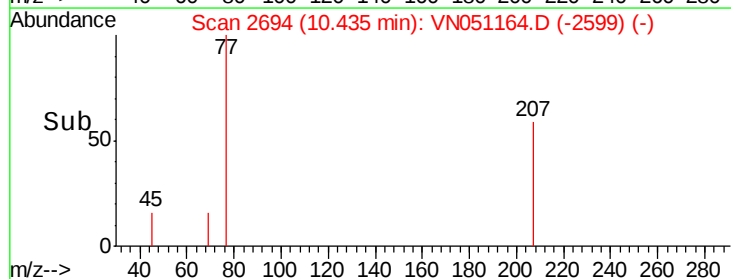
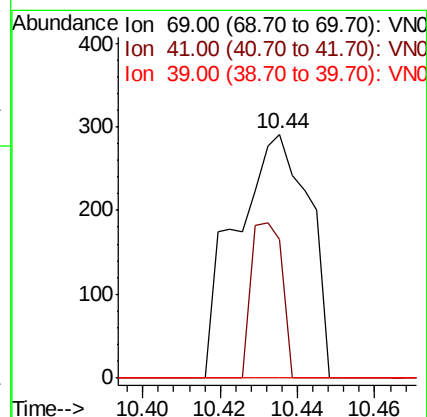
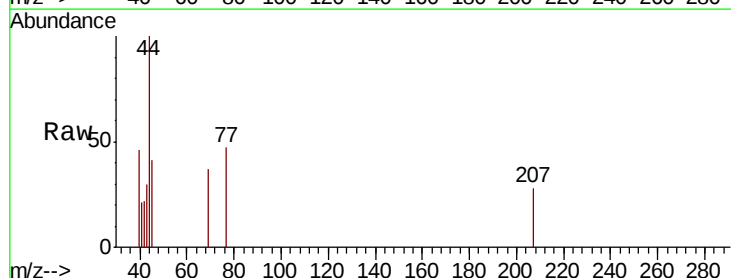
Tgt Ion: 69 Resp: 383

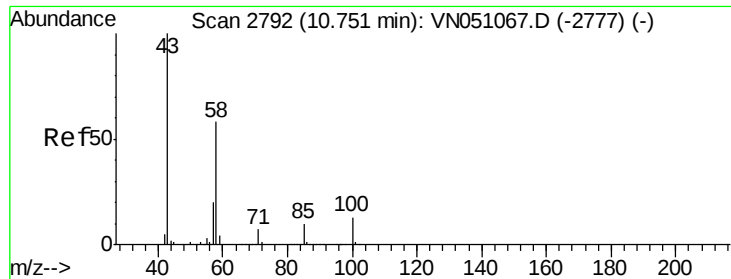
Ion Ratio Lower Upper

69 100

41 0.0 47.8 71.8#

39 0.0 23.0 34.4#

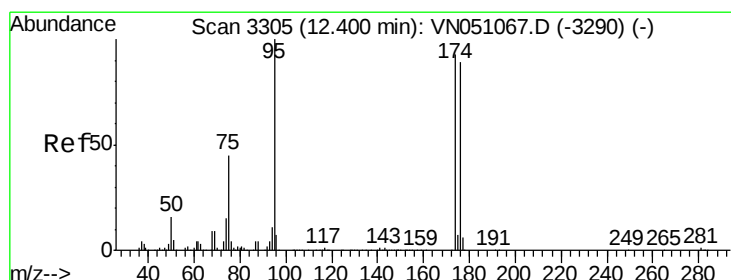
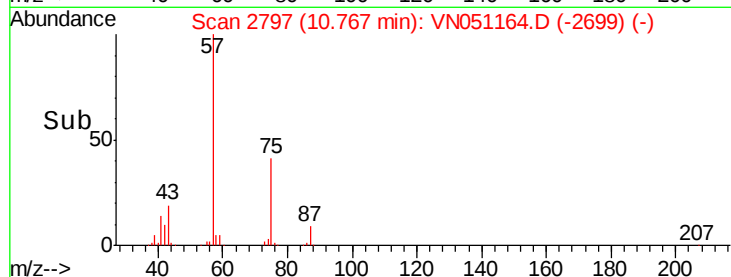
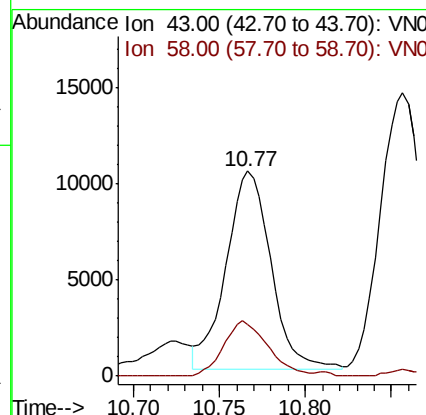
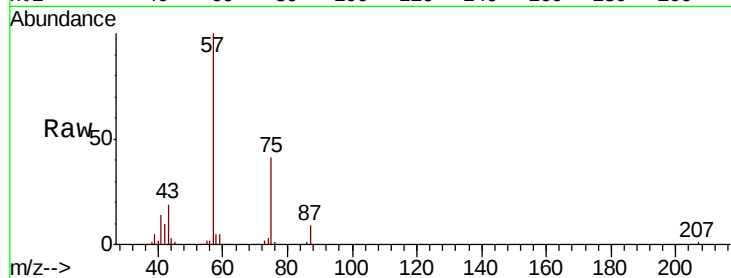




#59  
2-Hexanone  
Concen: 4.93 ug/l  
RT: 10.77 min Scan# 2797  
Delta R.T. 0.02 min  
Lab File: VN051164.D  
Acq: 13 Sep 2018 11:53

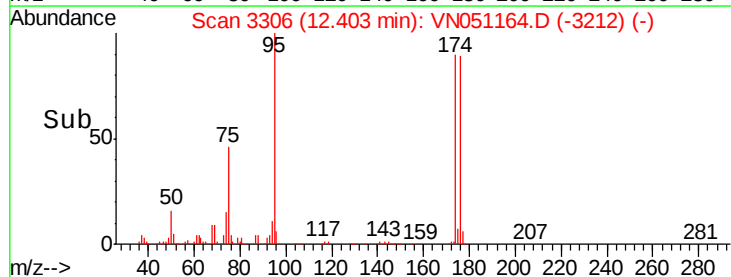
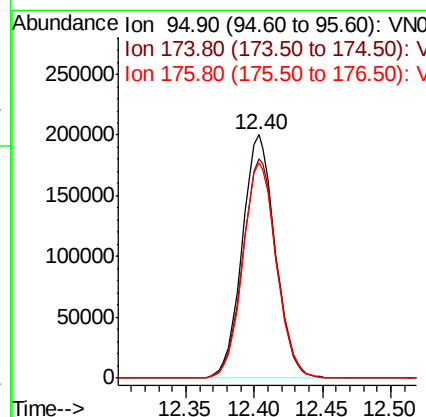
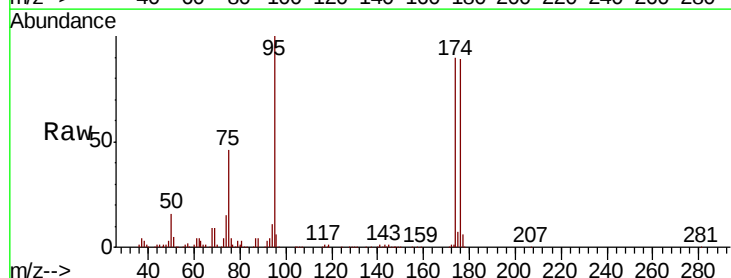
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB112798ZHE#02

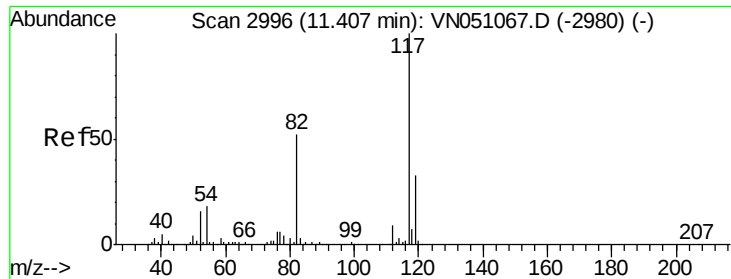
Tot Ion: 43 Resp: 18867  
Ion Ratio Lower Upper  
43 100  
58 27.6 29.3 88.0#



#62  
4-Bromofluorobenzene  
Concen: 39.14 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN051164.D  
Acq: 13 Sep 2018 11:53

Tgt Ion: 95 Resp: 335627  
Ion Ratio Lower Upper  
95 100  
174 92.5 0.0 184.8  
176 89.8 0.0 178.6

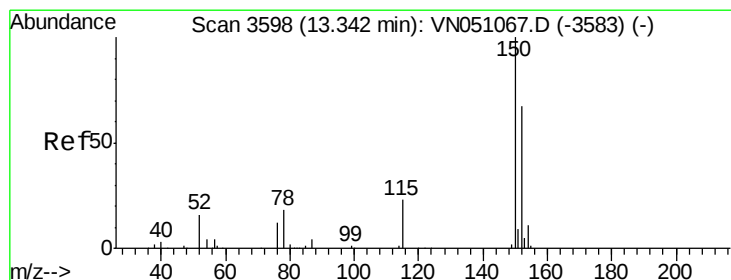
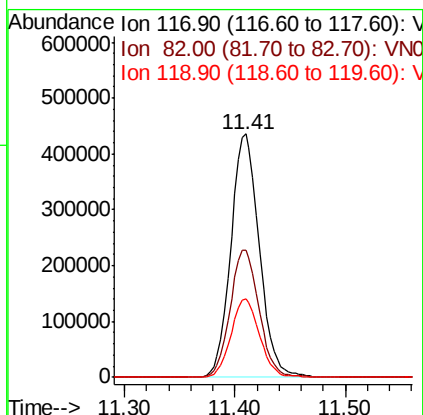
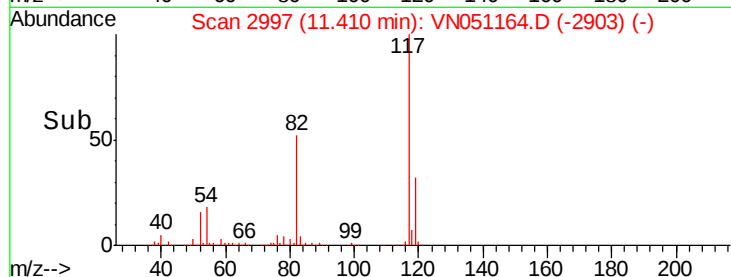
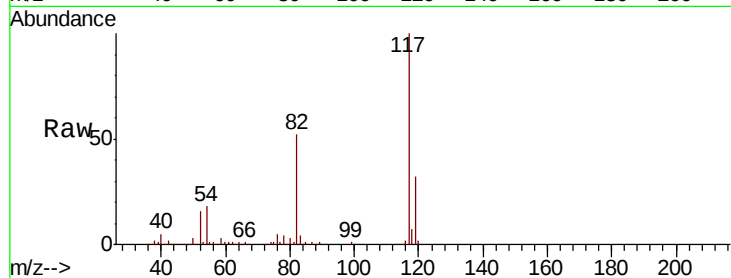




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN051164.D  
Acq: 13 Sep 2018 11:53

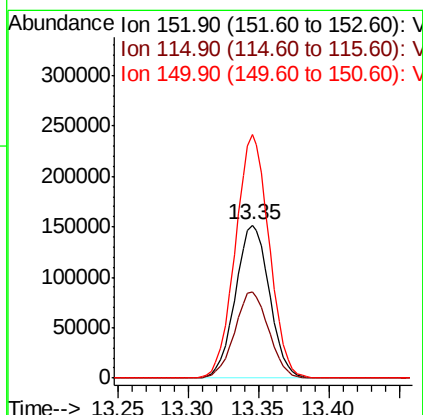
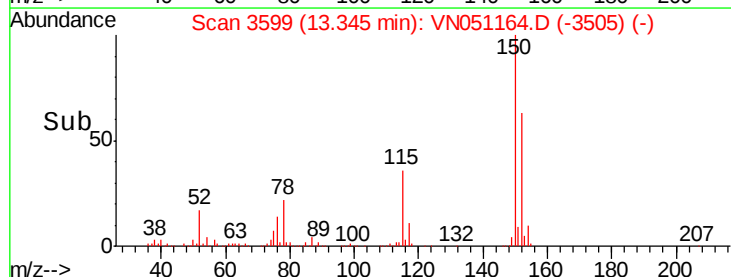
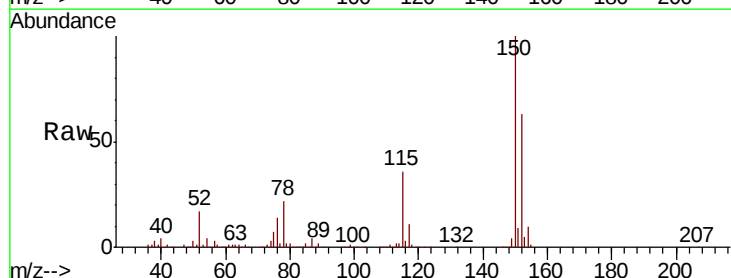
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB112798ZHE#02

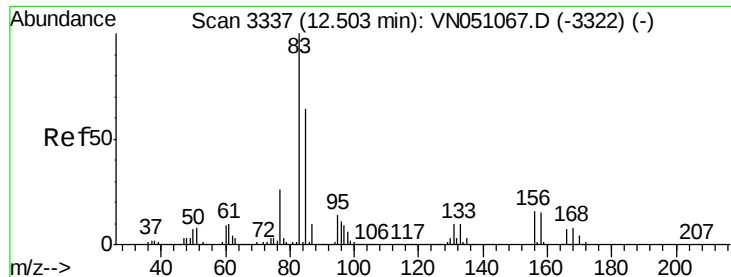
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.3  | 41.8  | 62.6  |
| 119     | 32.5  | 26.2  | 39.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN051164.D  
Acq: 13 Sep 2018 11:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.2  | 28.2  | 84.7  |
| 150     | 157.6 | 0.0   | 349.0 |





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

Instrument :

MSVOA\_N

ClientSampleId :

PB112798ZHE#02

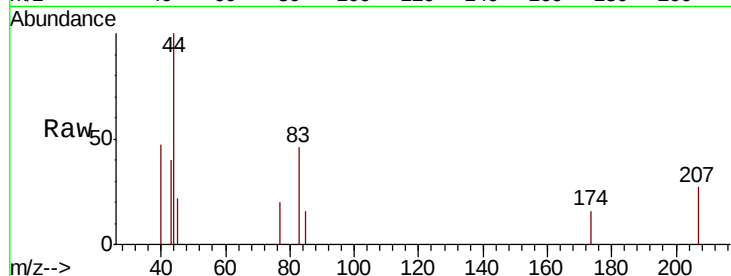
Tot Ion: 83 Resp: 499

Ion Ratio Lower Upper

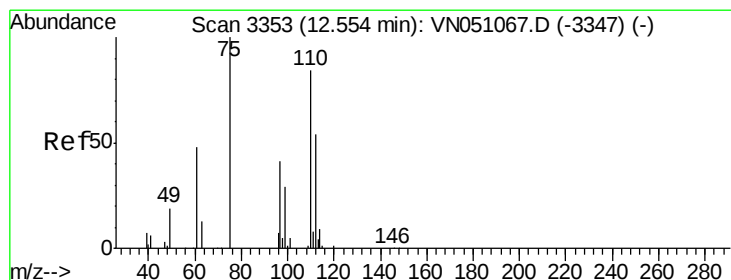
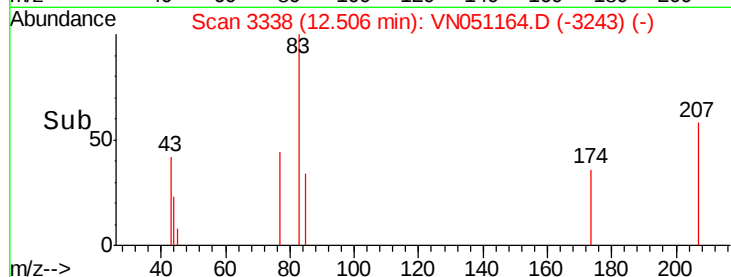
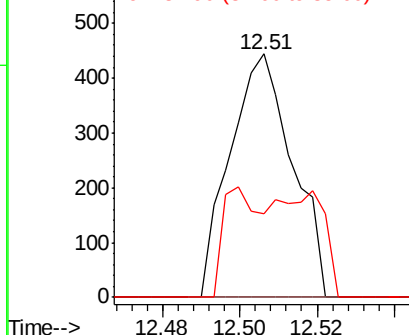
83 100

131 0.0 5.3 16.1#

85 27.1 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VNO  
Ion 130.80 (130.50 to 131.50): VNO  
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 38.88 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051164.D

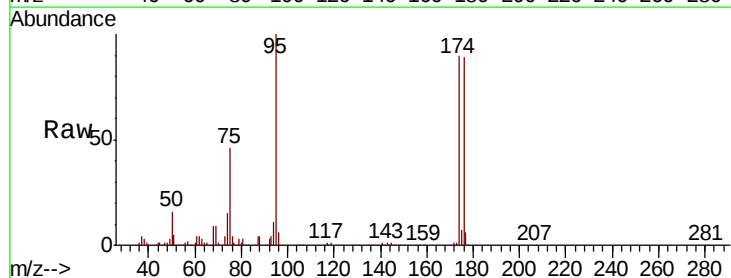
Acq: 13 Sep 2018 11:53

Tgt Ion: 75 Resp: 155785

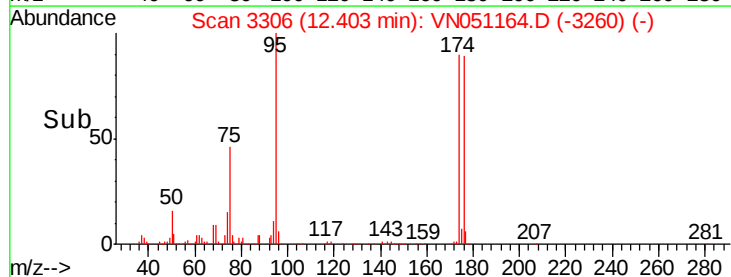
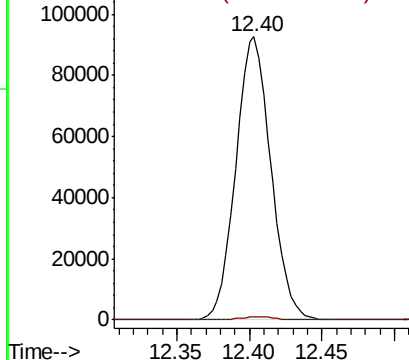
Ion Ratio Lower Upper

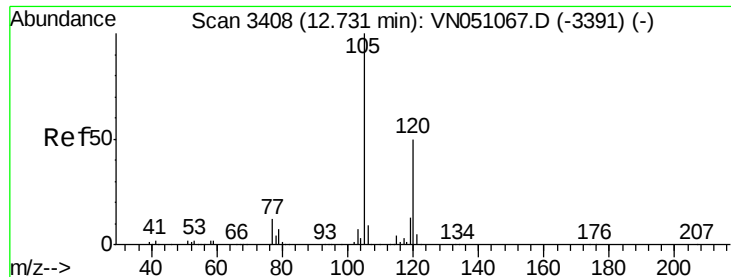
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO  
Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.29 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

Instrument :

MSVOA\_N

ClientSampleId :

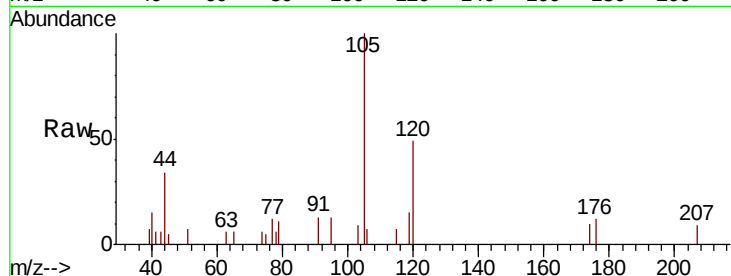
PB112798ZHE#02

Tot Ion:105 Resp: 4998

Ion Ratio Lower Upper

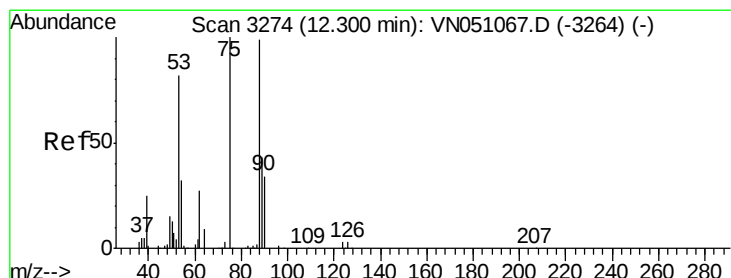
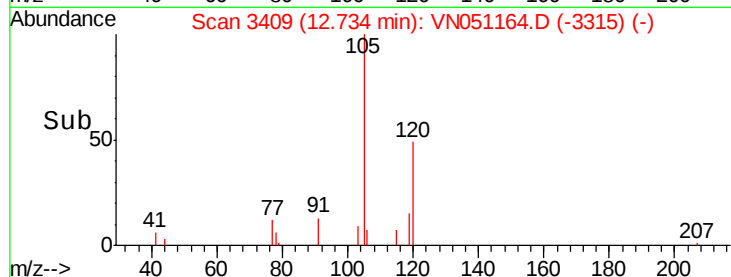
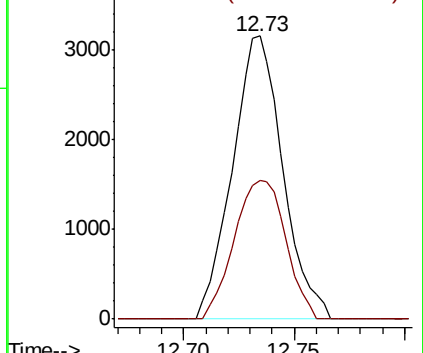
105 100

120 50.1 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 115.45 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

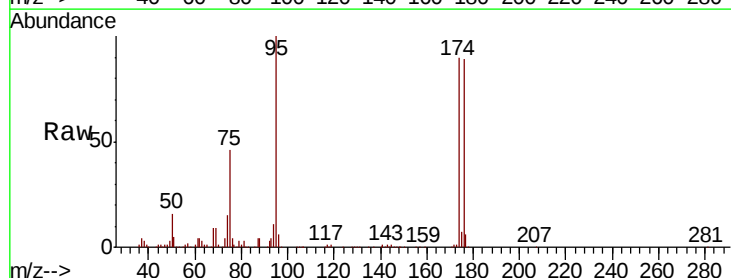
Tgt Ion: 75 Resp: 155785

Ion Ratio Lower Upper

75 100

53 0.1 67.8 101.8#

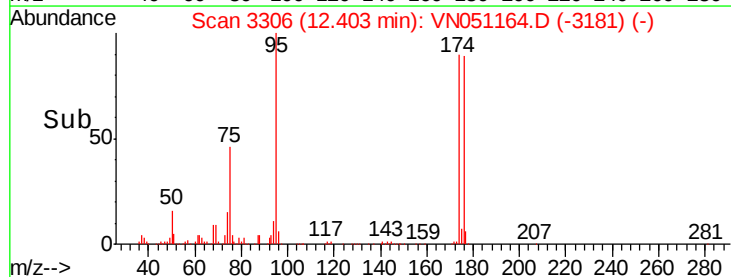
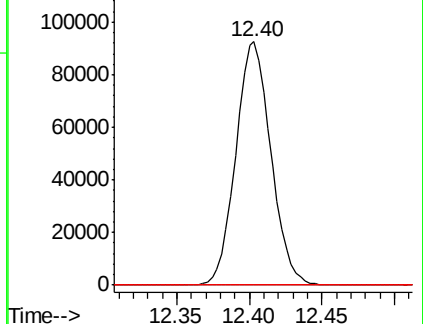
89 0.0 36.0 54.0#

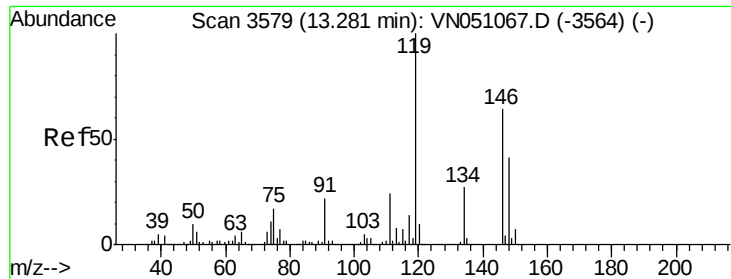


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

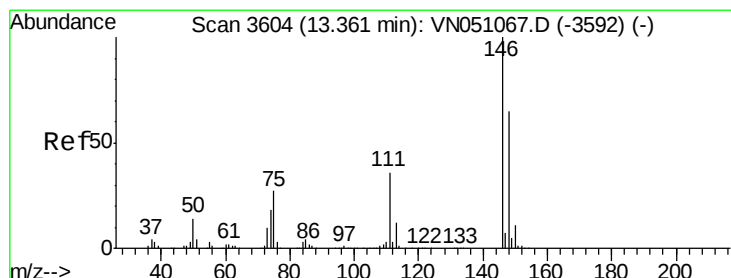
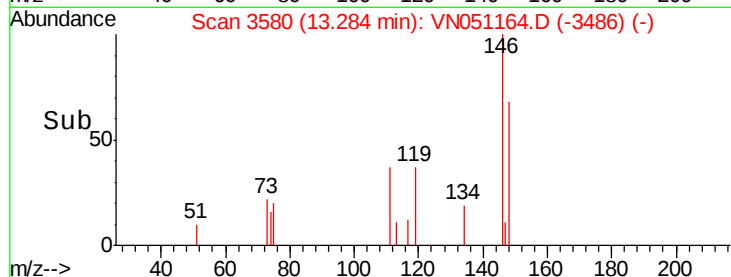
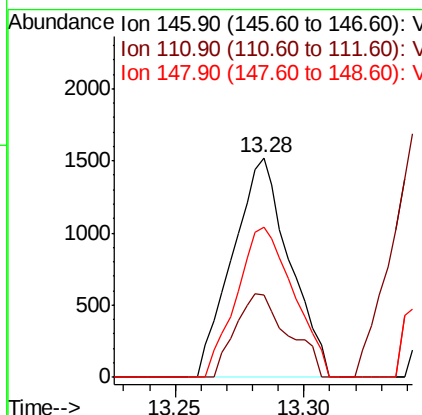
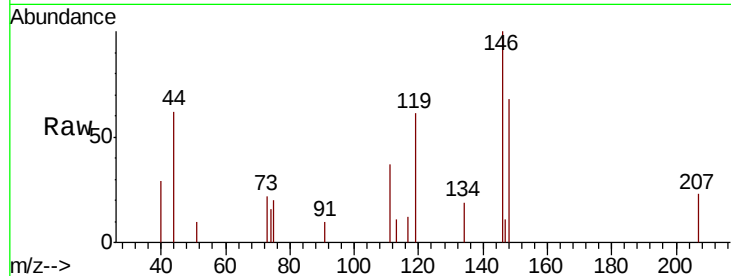




#87  
 1,3-Dichlorobenzene  
 Concen: 0.24 ug/l  
 RT: 13.28 min Scan# 3580  
 Delta R.T. 0.00 min  
 Lab File: VN051164.D  
 Acq: 13 Sep 2018 11:53

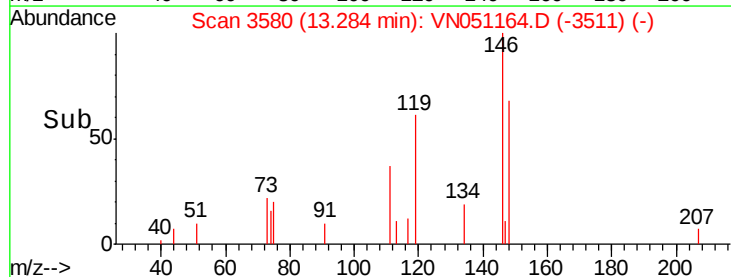
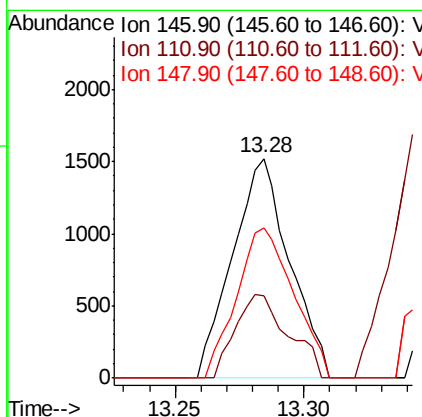
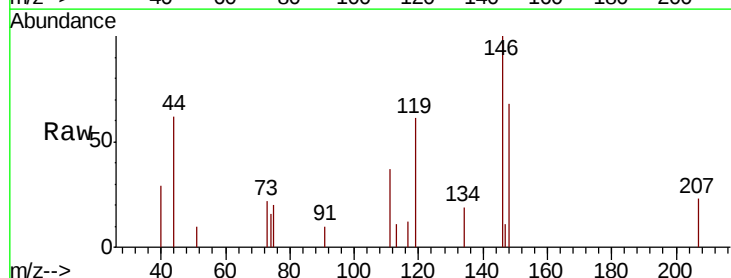
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB112798ZHE#02

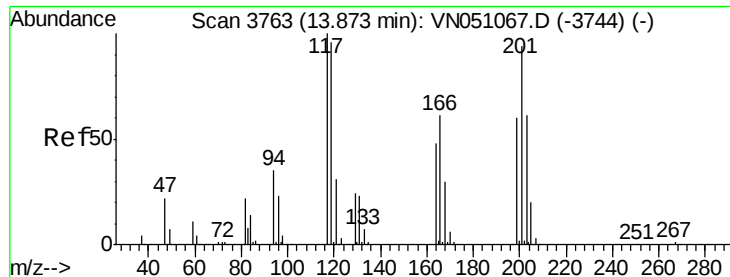
Tot Ion:146 Resp: 2344  
 Ion Ratio Lower Upper  
 146 100  
 111 35.4 19.1 57.1  
 148 68.4 32.2 96.6



#88  
 1,4-Dichlorobenzene  
 Concen: 0.27 ug/l  
 RT: 13.28 min Scan# 3580  
 Delta R.T. -0.08 min  
 Lab File: VN051164.D  
 Acq: 13 Sep 2018 11:53

Tgt Ion:146 Resp: 2344  
 Ion Ratio Lower Upper  
 146 100  
 111 35.4 18.4 55.0  
 148 68.4 32.2 96.6





#90

Hexachloroethane

Concen: Below Cal

RT: 13.62 min Scan# 3684

Delta R.T. -0.25 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

Instrument :

MSVOA\_N

ClientSampleId :

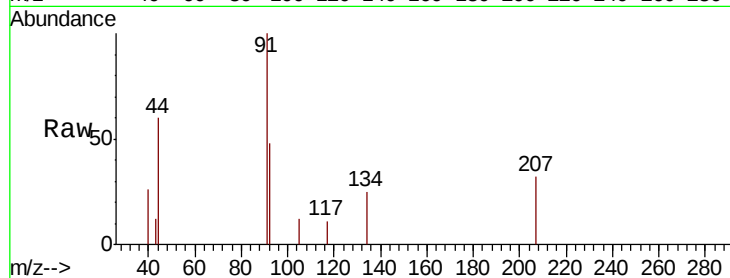
PB112798ZHE#02

Tot Ion:117 Resp: 30

Ion Ratio Lower Upper

117 100

201 0.0 47.3 142.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.62

150

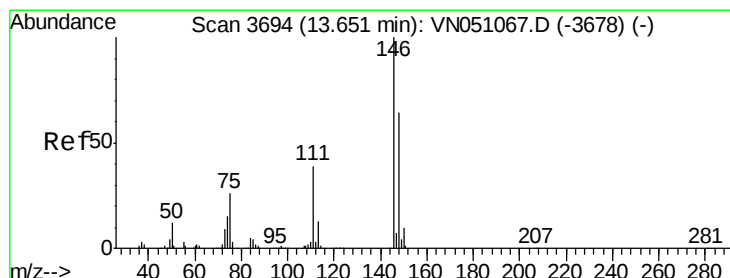
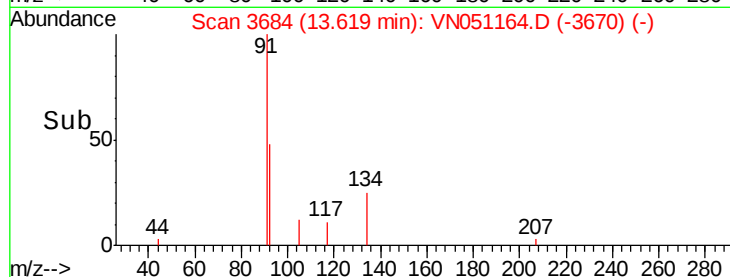
100

50

0

13.61 13.62

Time-->



#91

1,2-Dichlorobenzene

Concen: 0.24 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.01 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

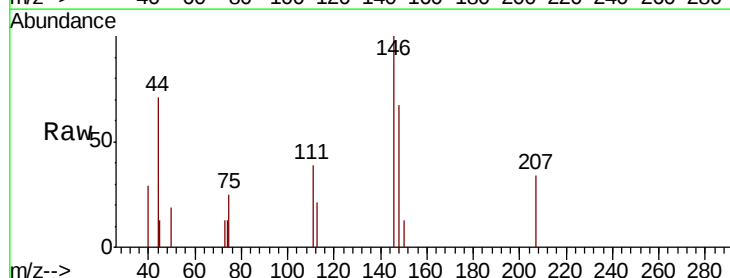
Tgt Ion:146 Resp: 2326

Ion Ratio Lower Upper

146 100

111 36.9 19.7 59.0

148 69.0 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

13.66

1500

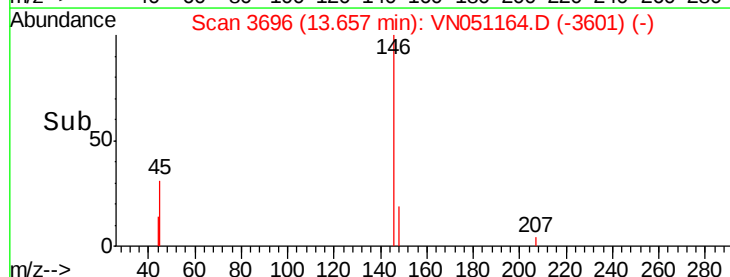
1000

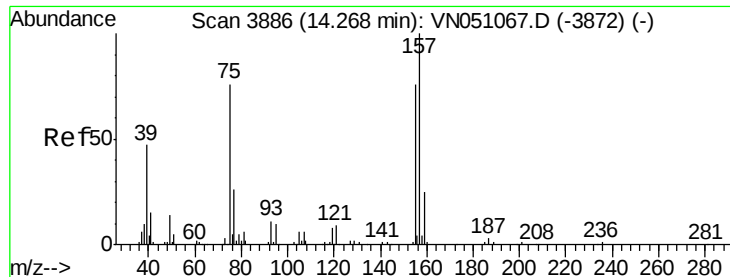
500

0

13.60 13.65 13.70

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.84 ug/l

RT: 14.26 min Scan# 3885

Delta R.T. -0.00 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

Instrument :

MSVOA\_N

ClientSampleId :

PB112798ZHE#02

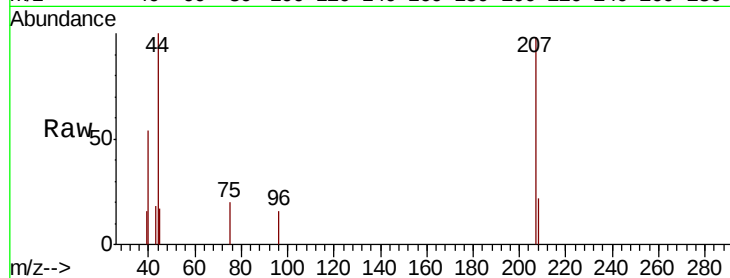
Tot Ion: 75 Resp: 139

Ion Ratio Lower Upper

75 100

155 105.8 48.7 146.1

157 43.2 63.6 190.9#



Abundance Ion 74.90 (74.60 to 75.60): VN051164.D (-3793) (-)

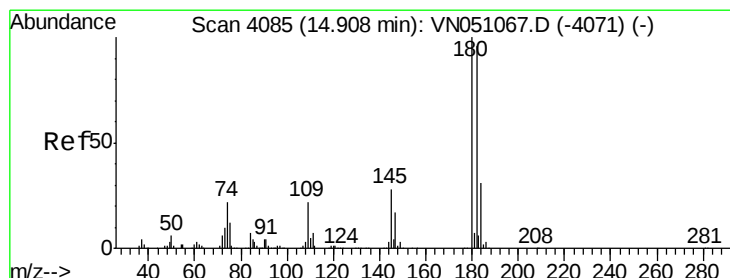
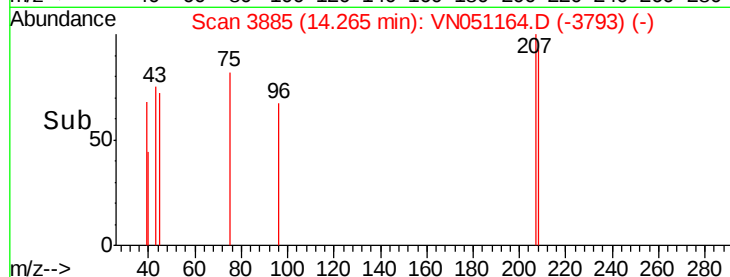
Ion 154.80 (154.50 to 155.50): VN051164.D (-3793) (-)

Ion 156.80 (156.50 to 157.50): VN051164.D (-3793) (-)

14.26

14.28

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 4.57 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

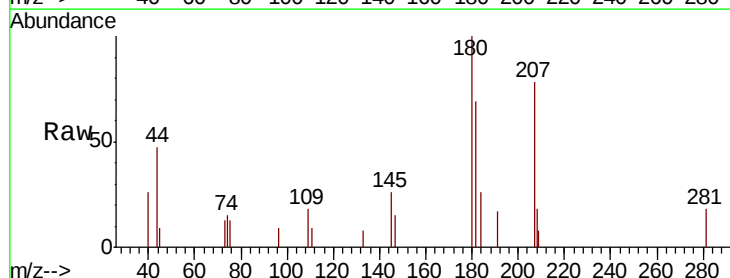
Tgt Ion:180 Resp: 2950

Ion Ratio Lower Upper

180 100

182 90.2 47.3 141.8

145 26.2 14.2 42.6



Abundance Ion 179.80 (179.50 to 180.50): VN051164.D (-3992) (-)

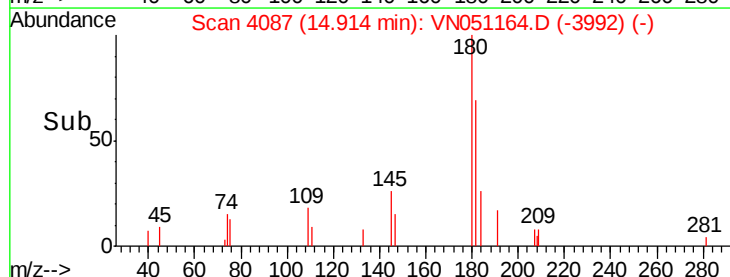
Ion 181.80 (181.50 to 182.50): VN051164.D (-3992) (-)

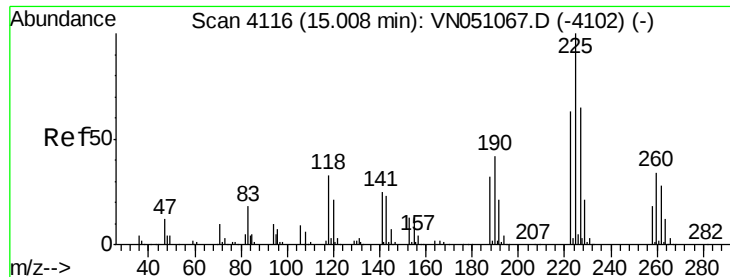
Ion 144.80 (144.50 to 145.50): VN051164.D (-3992) (-)

14.91

14.95

Time-->





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4118

Delta R.T. 0.01 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

Instrument :

MSVOA\_N

ClientSampleId :

PB112798ZHE#02

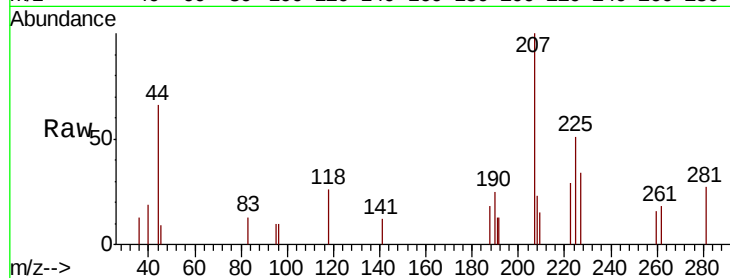
Tot Ion:225 Resp: 1443

Ion Ratio Lower Upper

225 100

223 60.7 31.4 94.0

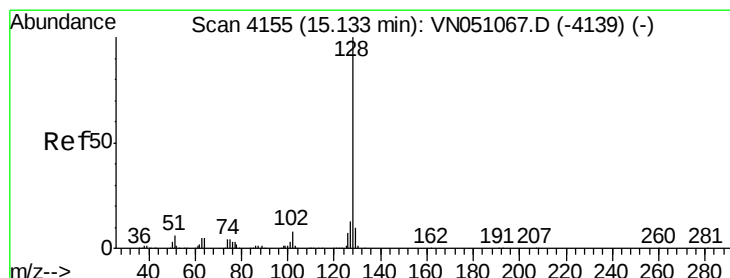
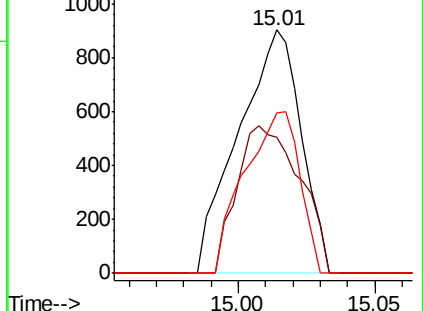
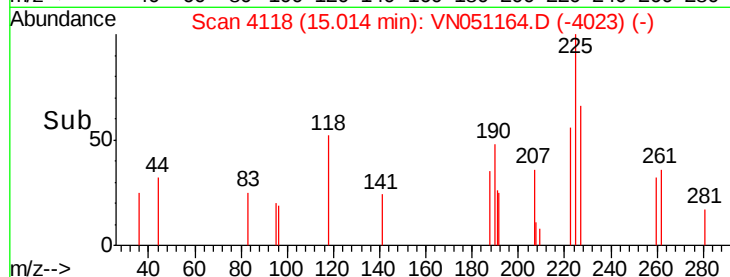
227 58.6 32.1 96.3



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 5.98 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051164.D

Acq: 13 Sep 2018 11:53

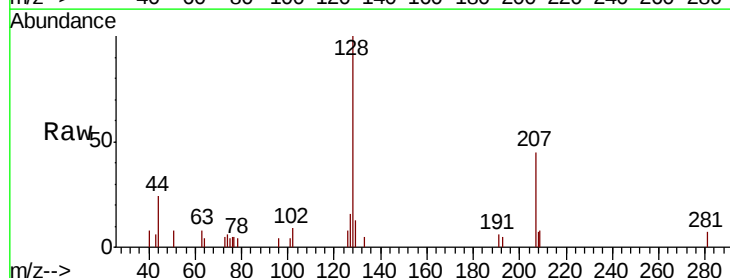
Tgt Ion:128 Resp: 6909

Ion Ratio Lower Upper

128 100

127 12.7 10.6 15.8

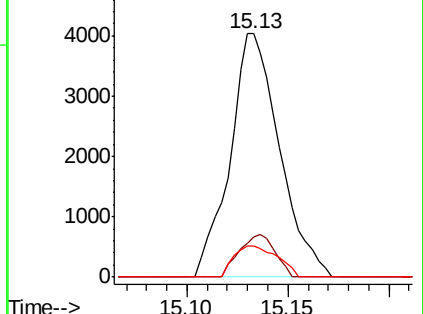
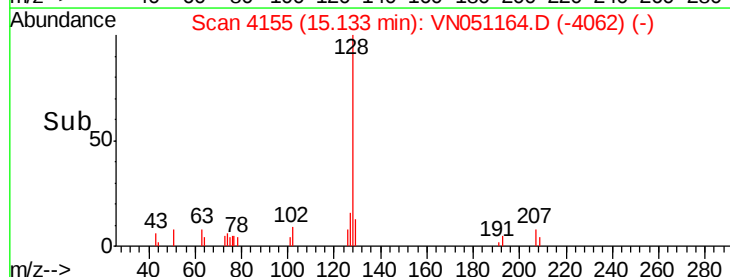
129 11.2 8.6 12.8

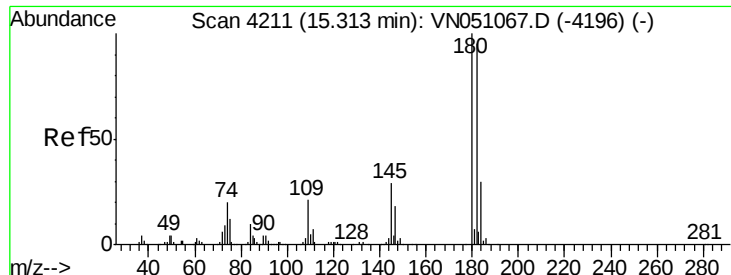


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

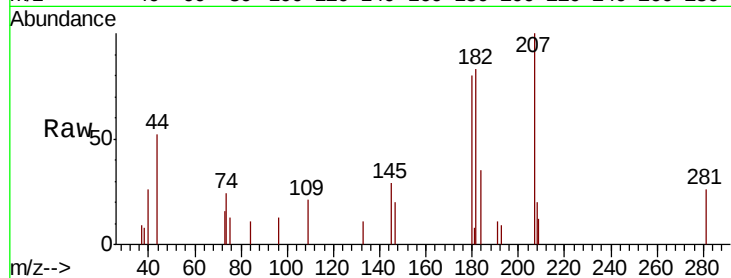




#96  
 1,2,3-Trichlorobenzene  
 Concen: 3.57 ug/l  
 RT: 15.31 min Scan# 4211  
 Delta R.T. 0.00 min  
 Lab File: VN051164.D  
 Acq: 13 Sep 2018 11:53

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB112798ZHE#02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 106.9 | 47.8  | 143.3 |
| 145     | 33.6  | 14.6  | 43.8  |



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

