

Data File : VN057064.D  
Acq On : 2 Aug 2019 14:19  
Operator : JC/SP  
Sample : K4139-04  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

Quant Time: Aug 03 04:24:01 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072719W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 27 01:33:29 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 565993   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 817840   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 665822   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 173226   | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.02   | 65  | 274107   | 47.31 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.62% |      |
| 35) Dibromofluoromethane  | 7.58   | 113 | 251417   | 48.02 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.04% |      |
| 50) Toluene-d8            | 10.08  | 98  | 956351   | 47.90 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.80% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 244257   | 37.58 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 75.16% |      |

Target Compounds

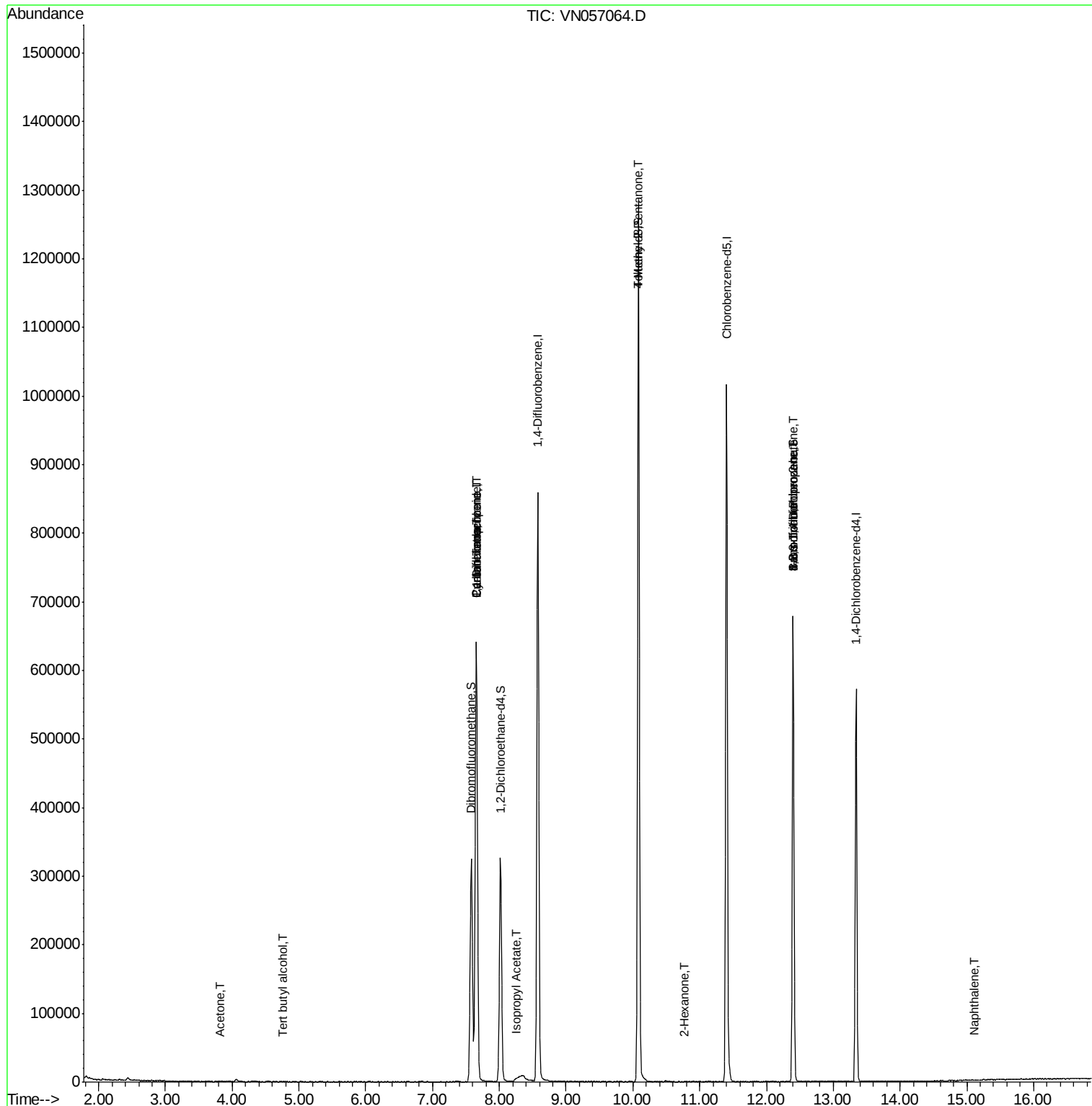
|                                |       |     |        |         |        | Qvalue |
|--------------------------------|-------|-----|--------|---------|--------|--------|
| 11) Tert butyl alcohol         | 4.76  | 59  | 164    | 0.209   | ug/l # | 74     |
| 16) Acetone                    | 3.82  | 43  | 1025   | 0.488   | ug/l   | 97     |
| 31) Cyclohexane                | 7.65  | 56  | 8464   | 0.889   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.65  | 75  | 34665  | 4.817   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.66  | 117 | 48055  | 7.059   | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.25  | 43  | 2705   | 0.284   | ug/l # | 52     |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43  | 3730   | 0.659   | ug/l # | 1      |
| 59) 2-Hexanone                 | 10.76 | 43  | 31     | 2.507   | ug/l # | 23     |
| 71) Bromoform                  | 12.40 | 173 | 1762   | 0.494   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 110934 | 31.534  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 110934 | 101.317 | ug/l # | 15     |
| 95) Naphthalene                | 15.12 | 128 | 219    | 3.615   | ug/l # | 70     |

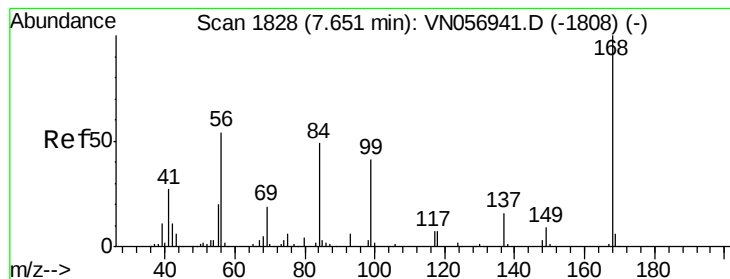
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057064.D

Acq: 2 Aug 2019 14:19

Instrument :

MSVOA\_N

ClientSampleId :

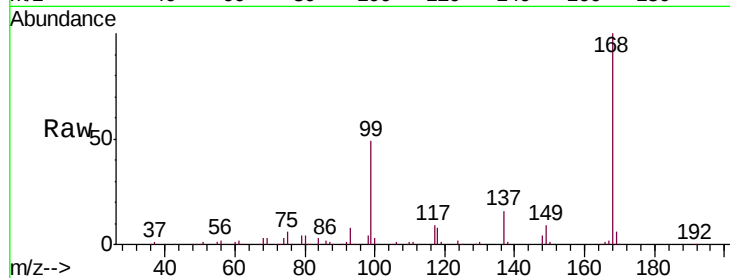
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion:168 Resp: 565993

Ion Ratio Lower Upper

168 100

99 48.9 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

250000

200000

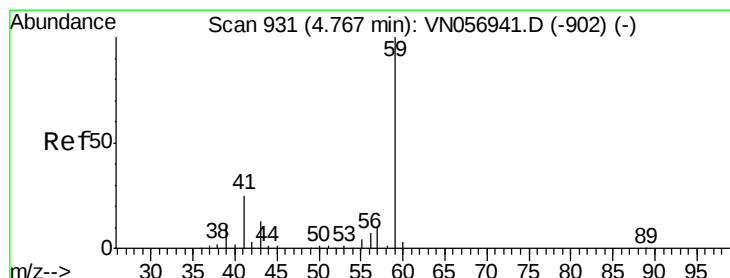
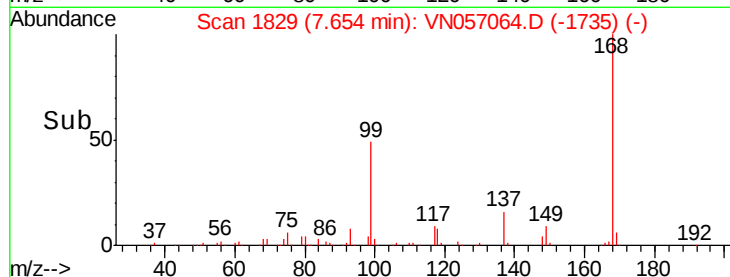
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.209 ug/l

RT: 4.76 min Scan# 930

Delta R.T. -0.00 min

Lab File: VN057064.D

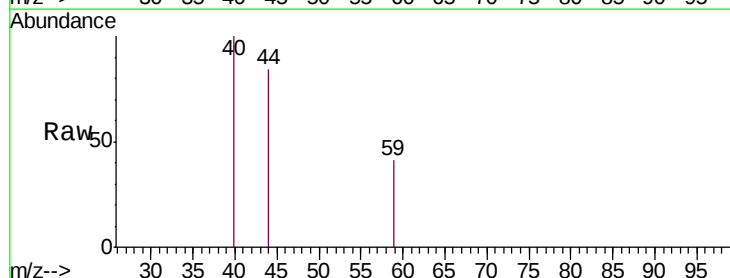
Acq: 2 Aug 2019 14:19

Tgt Ion: 59 Resp: 164

Ion Ratio Lower Upper

59 100

57 0.0 7.5 11.3#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.76

200

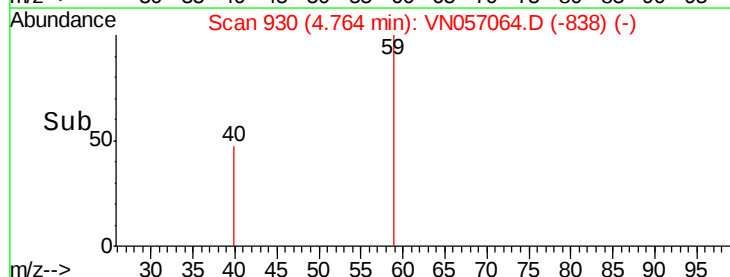
150

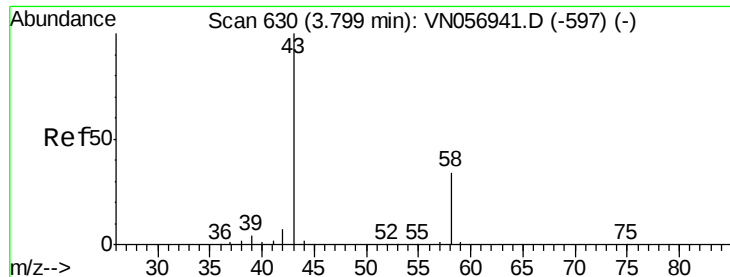
100

50

0

Time-->





#16

Acetone

Concen: 0.488 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.02 min

Lab File: VN057064.D

Acq: 2 Aug 2019 14:19

Instrument :

MSVOA\_N

ClientSampleId :

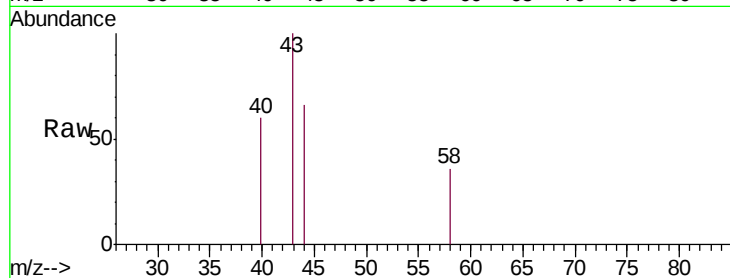
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion: 43 Resp: 1025

Ion Ratio Lower Upper

43 100

58 35.6 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

600

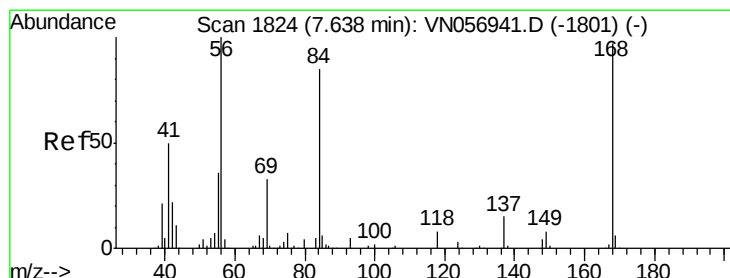
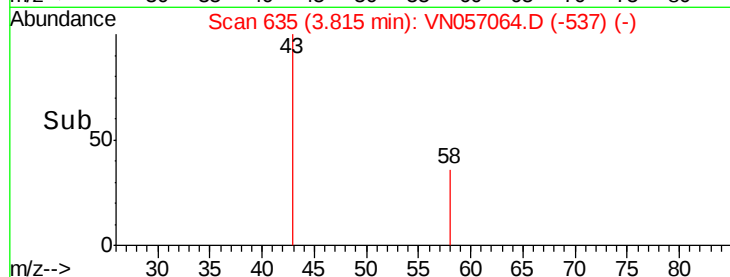
400

200

0

3.76 3.78 3.80 3.82 3.84

Time-->



#31

Cyclohexane

Concen: 0.889 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057064.D

Acq: 2 Aug 2019 14:19

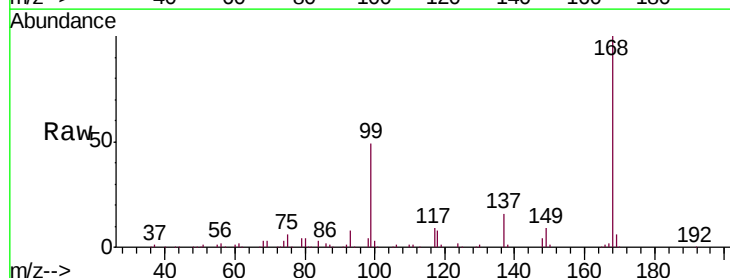
Tgt Ion: 56 Resp: 8464

Ion Ratio Lower Upper

56 100

69 198.4 26.2 39.2#

84 167.9 68.2 102.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

10000

8000

6000

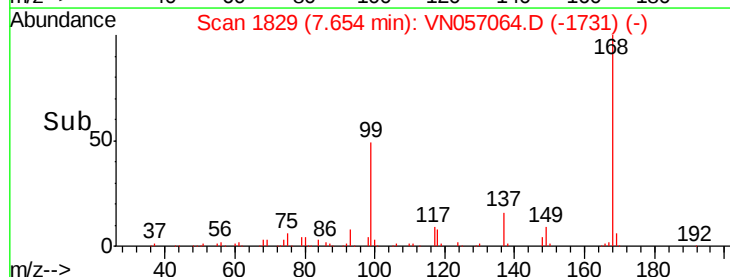
4000

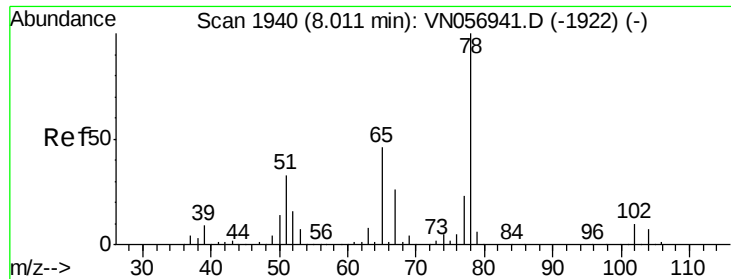
2000

0

7.60 7.65 7.70

Time-->

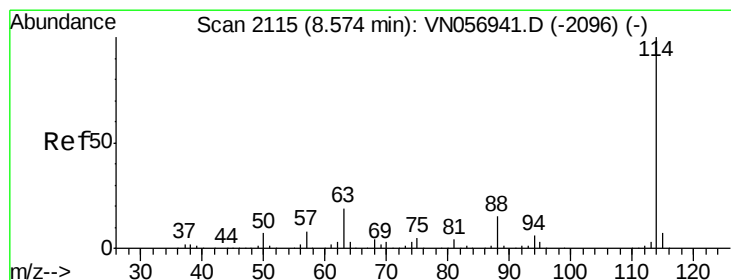
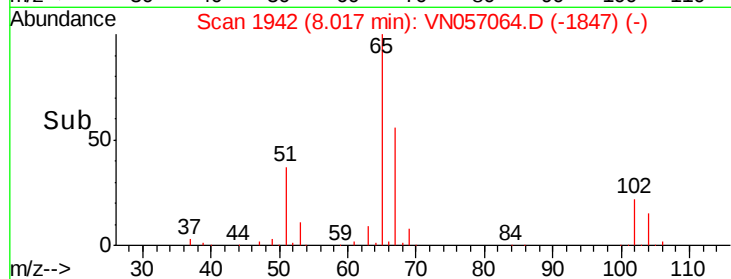
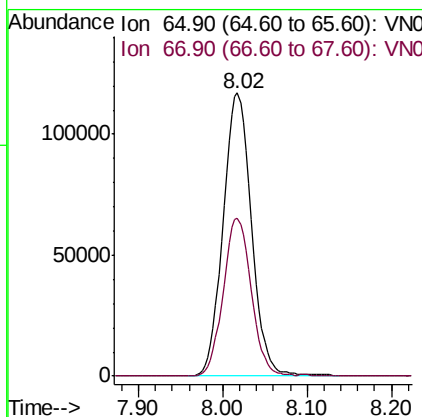
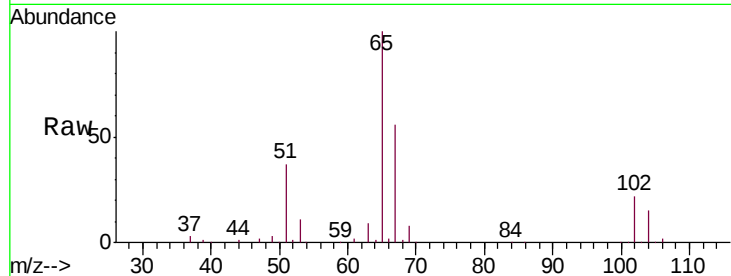




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.311 ug/l  
 RT: 8.02 min Scan# 1942  
 Delta R.T. 0.01 min  
 Lab File: VN057064.D  
 Acq: 2 Aug 2019 14:19

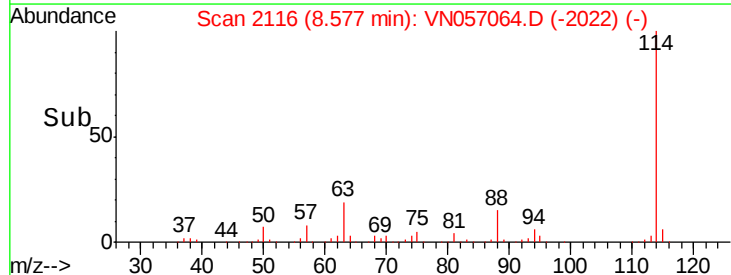
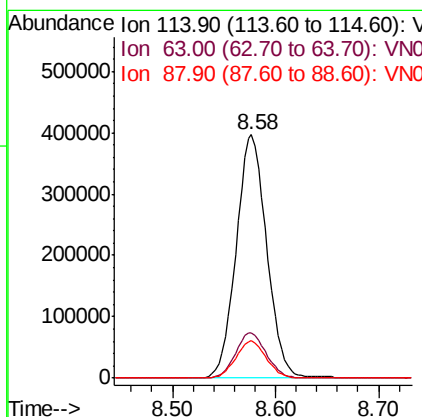
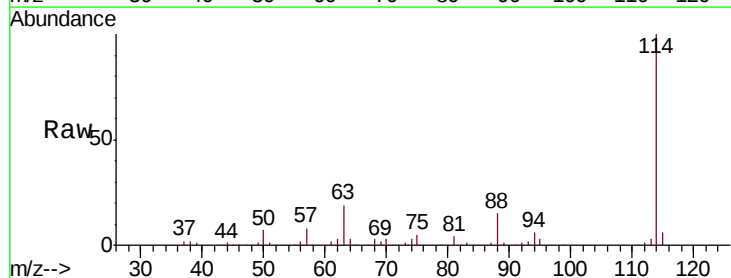
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANA

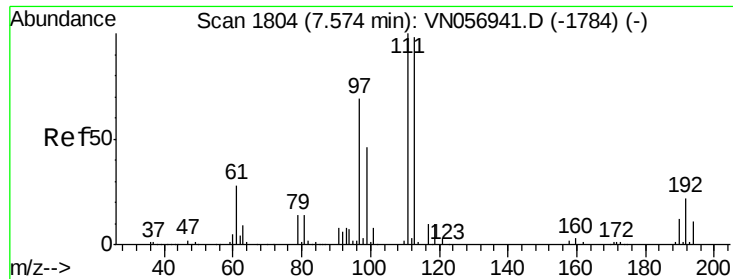
Tgt Ion: 65 Resp: 274107  
 Ion Ratio Lower Upper  
 65 100  
 67 54.8 0.0 112.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2116  
 Delta R.T. 0.00 min  
 Lab File: VN057064.D  
 Acq: 2 Aug 2019 14:19

Tgt Ion: 114 Resp: 817840  
 Ion Ratio Lower Upper  
 114 100  
 63 18.7 0.0 38.0  
 88 15.3 0.0 30.0

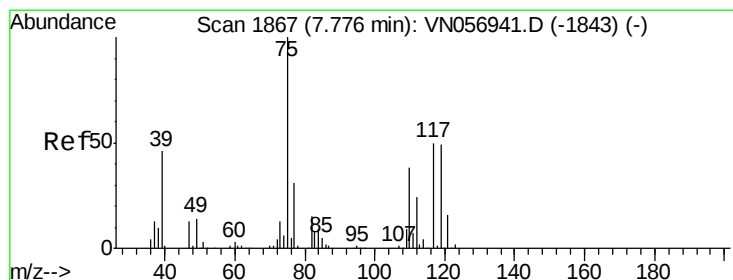
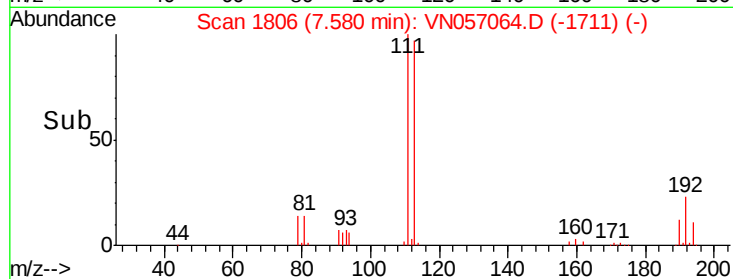
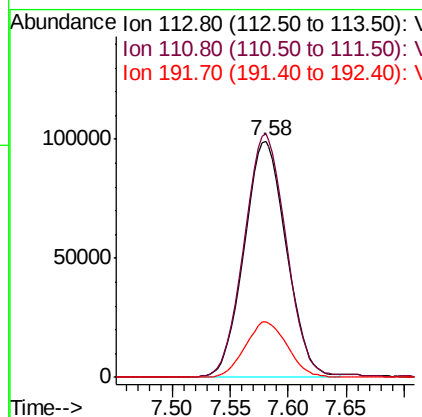
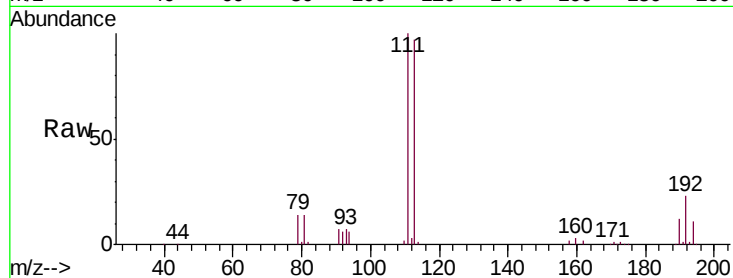




#35  
Dibromofluoromethane  
Concen: 48.021 ug/l  
RT: 7.58 min Scan# 1806  
Delta R.T. 0.01 min  
Lab File: VN057064.D  
Acq: 2 Aug 2019 14:19

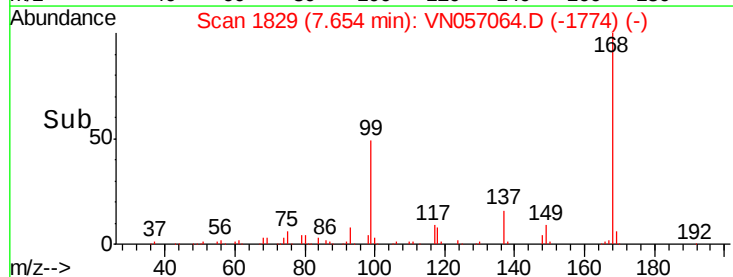
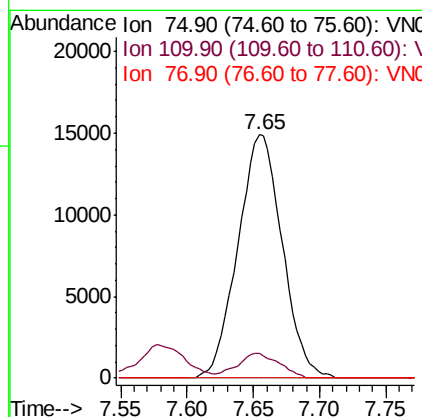
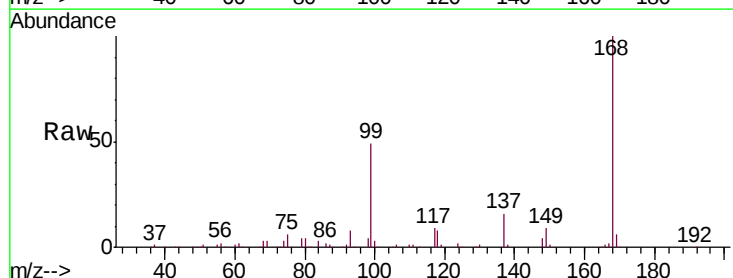
Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

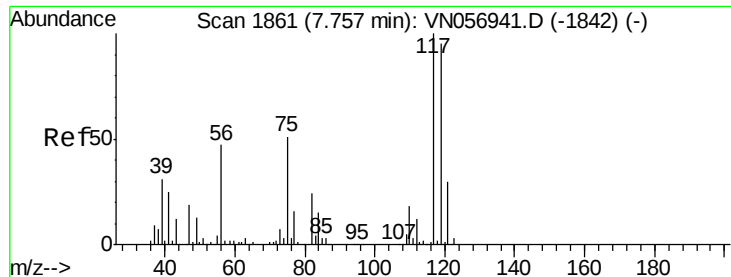
Tgt Ion:113 Resp: 251417  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.0 123.0  
192 23.5 18.4 27.6



#36  
1,1-Dichloropropene  
Concen: 4.817 ug/l  
RT: 7.65 min Scan# 1829  
Delta R.T. -0.12 min  
Lab File: VN057064.D  
Acq: 2 Aug 2019 14:19

Tgt Ion: 75 Resp: 34665  
Ion Ratio Lower Upper  
75 100  
110 9.7 18.6 55.8#  
77 0.0 25.2 37.8#





#38

Carbon Tetrachloride

Concen: 7.059 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. -0.10 min

Lab File: VN057064.D

Acq: 2 Aug 2019 14:19

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

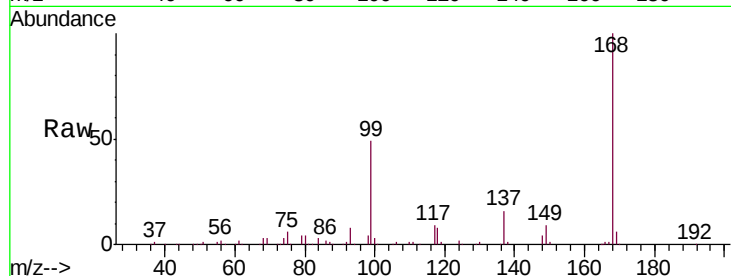
Tgt Ion:117 Resp: 48055

Ion Ratio Lower Upper

117 100

119 5.7 75.3 112.9#

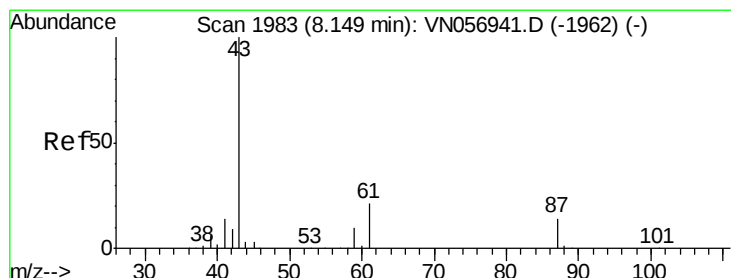
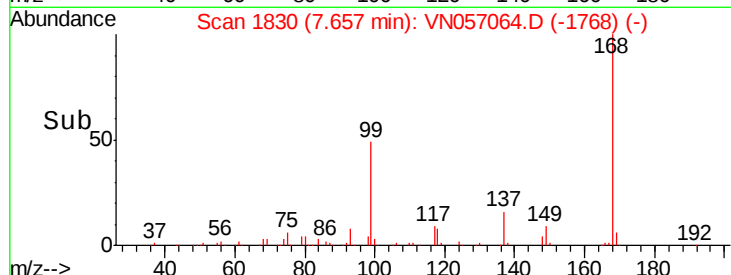
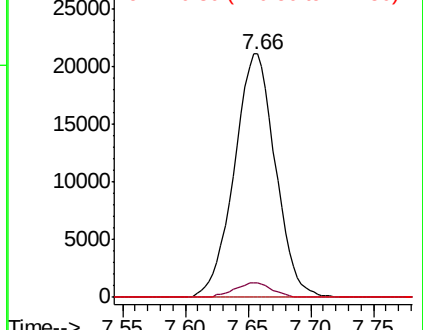
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.284 ug/l

RT: 8.25 min Scan# 2013

Delta R.T. 0.10 min

Lab File: VN057064.D

Acq: 2 Aug 2019 14:19

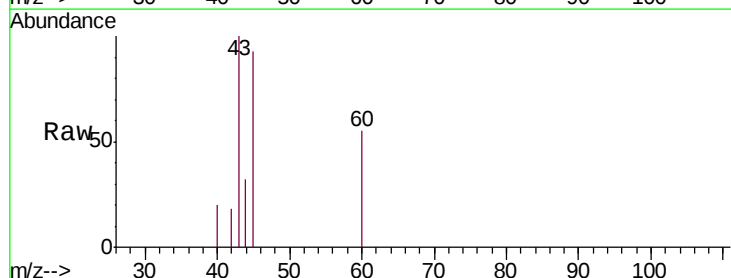
Tgt Ion: 43 Resp: 2705

Ion Ratio Lower Upper

43 100

61 0.0 23.0 34.6#

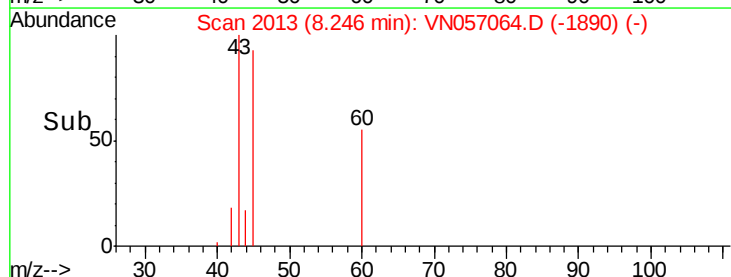
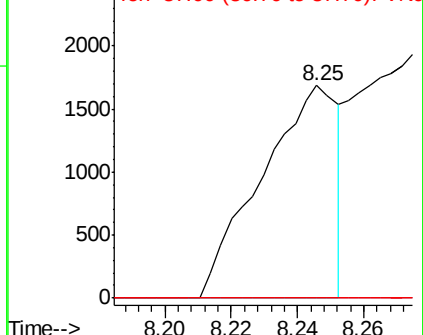
87 0.0 11.7 17.5#

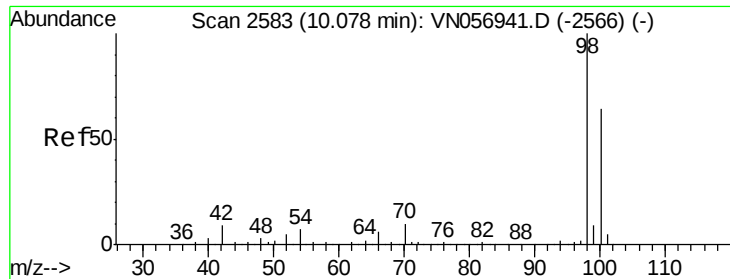


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 47.900 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057064.D

Acq: 2 Aug 2019 14:19

Instrument :

MSVOA\_N

ClientSampleId :

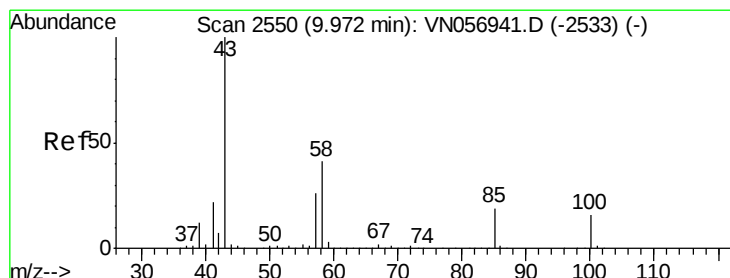
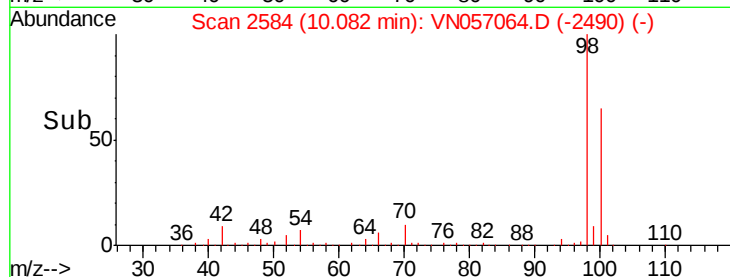
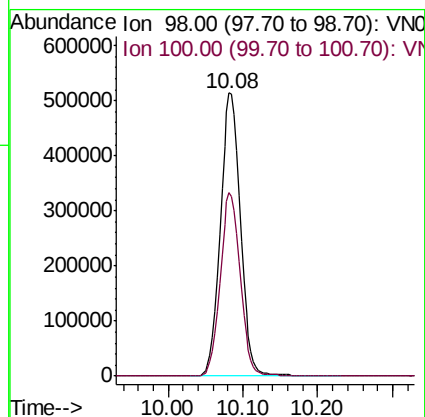
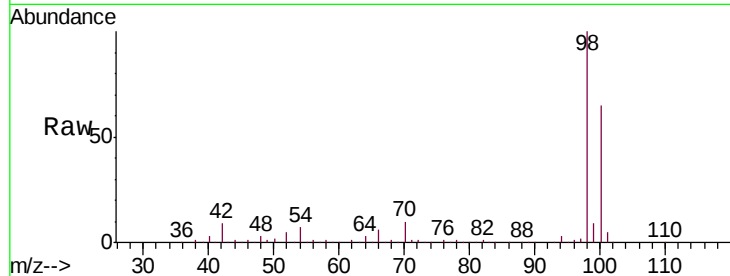
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion: 98 Resp: 956351

Ion Ratio Lower Upper

98 100

100 64.5 51.3 76.9



#51

4-Methyl-2-Pentanone

Concen: 0.659 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.11 min

Lab File: VN057064.D

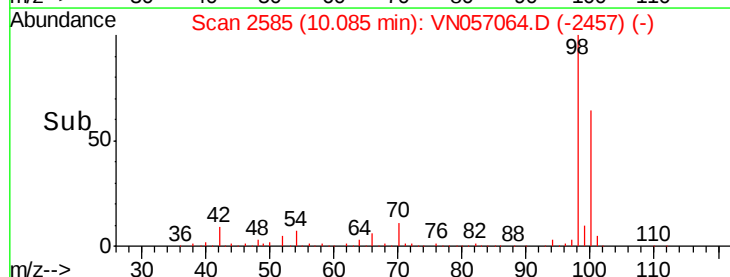
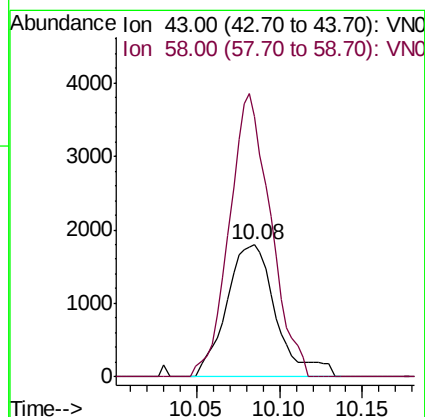
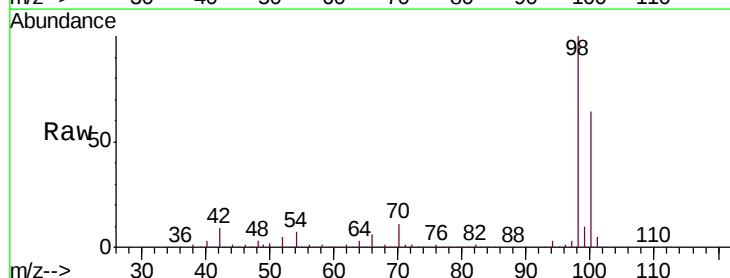
Acq: 2 Aug 2019 14:19

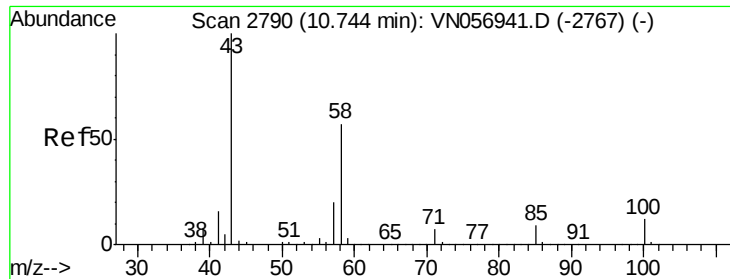
Tgt Ion: 43 Resp: 3730

Ion Ratio Lower Upper

43 100

58 178.6 33.1 49.7#

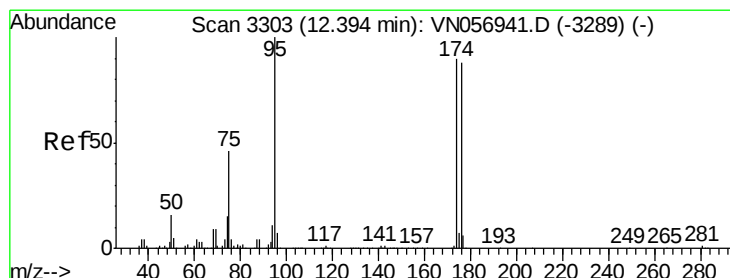
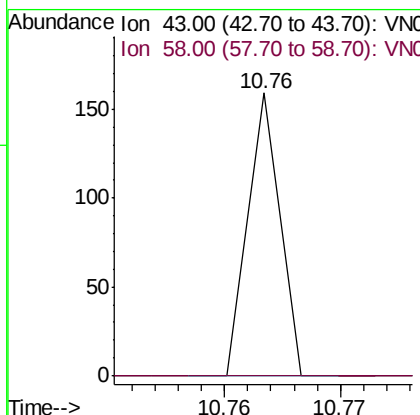
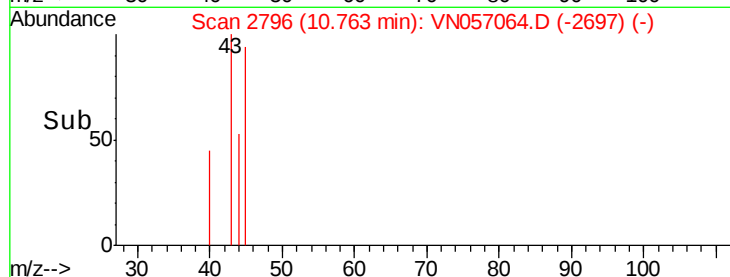
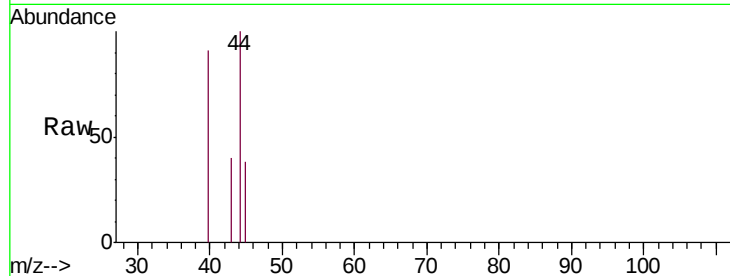




#59  
2-Hexanone  
Concen: 2.507 ug/l  
RT: 10.76 min Scan# 2796  
Delta R.T. 0.02 min  
Lab File: VN057064.D  
Acq: 2 Aug 2019 14:19

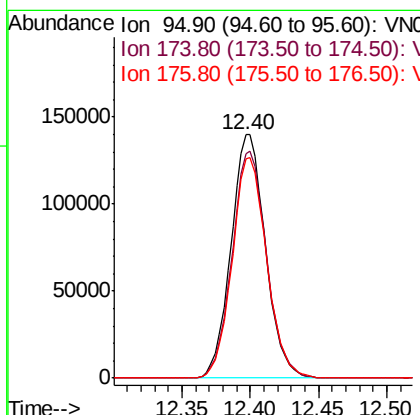
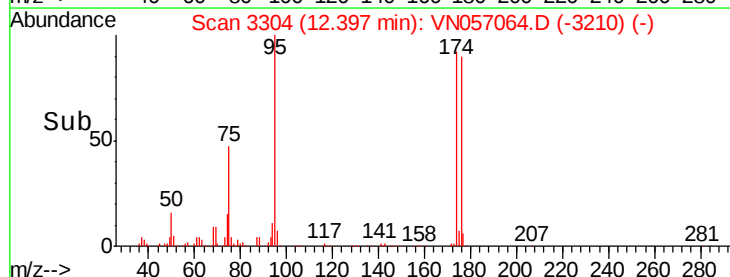
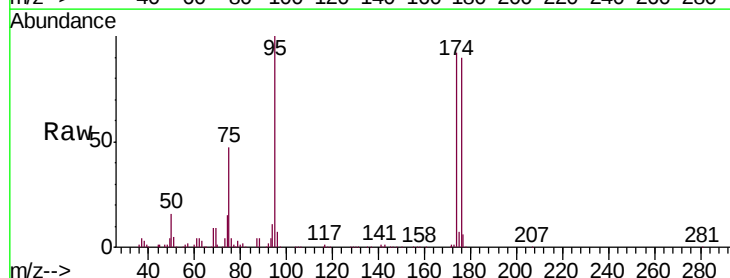
Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

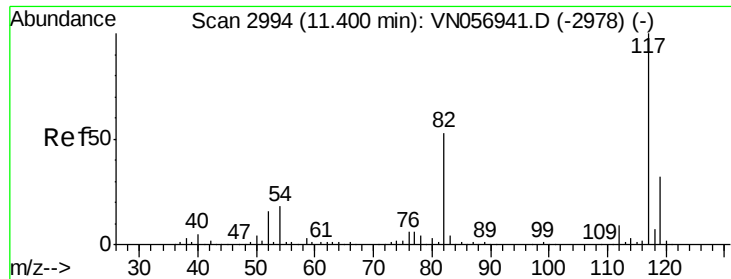
Tgt Ion: 43 Resp: 31  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.5 85.5#



#62  
4-Bromofluorobenzene  
Concen: 37.580 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. 0.00 min  
Lab File: VN057064.D  
Acq: 2 Aug 2019 14:19

Tgt Ion: 95 Resp: 244257  
Ion Ratio Lower Upper  
95 100  
174 93.7 0.0 182.2  
176 91.0 0.0 179.4

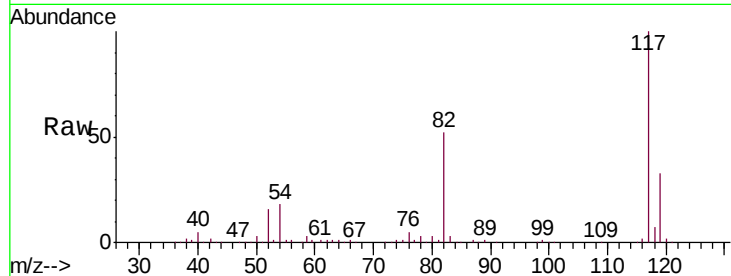




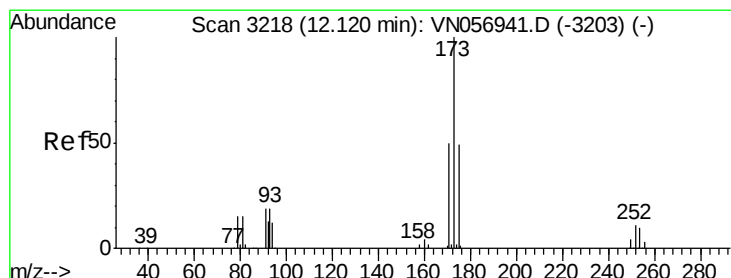
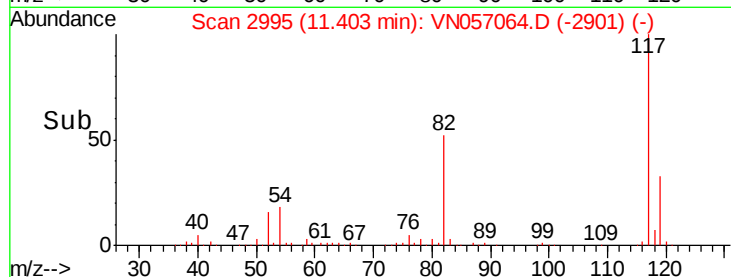
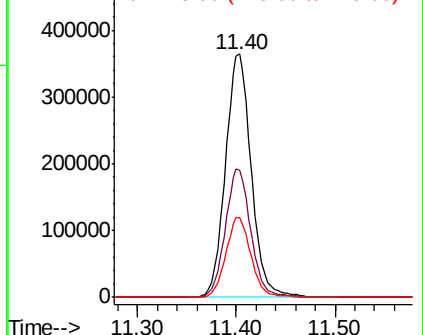
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2995  
Delta R.T. 0.00 min  
Lab File: VN057064.D  
Acq: 2 Aug 2019 14:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion:117 Resp: 665822  
Ion Ratio Lower Upper  
117 100  
82 52.3 42.2 63.4  
119 32.8 25.8 38.6

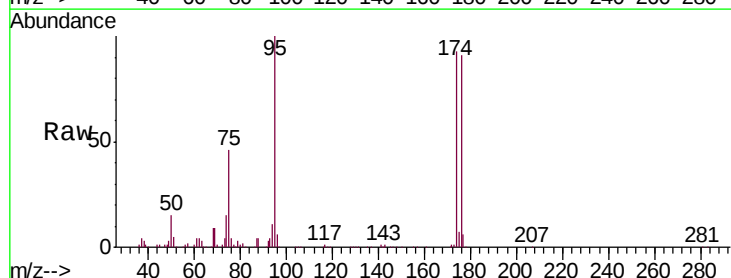


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VN  
Ion 118.90 (118.60 to 119.60): V

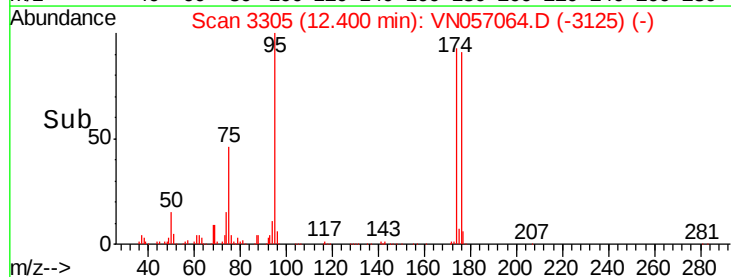
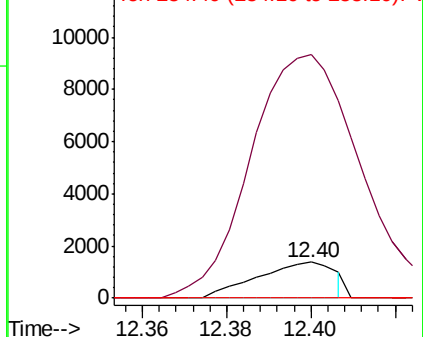


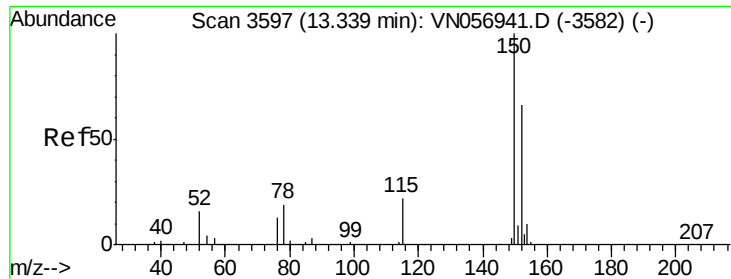
#71  
Bromoform  
Concen: 0.494 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.28 min  
Lab File: VN057064.D  
Acq: 2 Aug 2019 14:19

Tgt Ion:173 Resp: 1762  
Ion Ratio Lower Upper  
173 100  
175 741.9 24.1 72.4#  
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057064.D

Acq: 2 Aug 2019 14:19

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

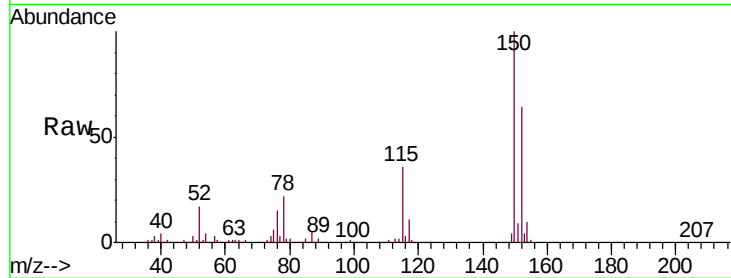
Tgt Ion:152 Resp: 173226

Ion Ratio Lower Upper

152 100

115 55.2 28.2 84.6

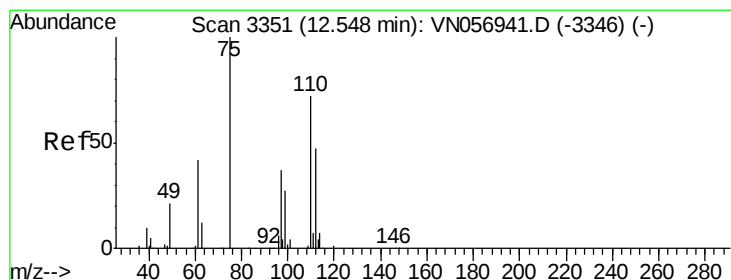
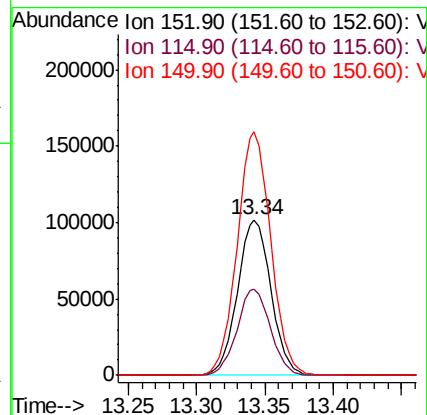
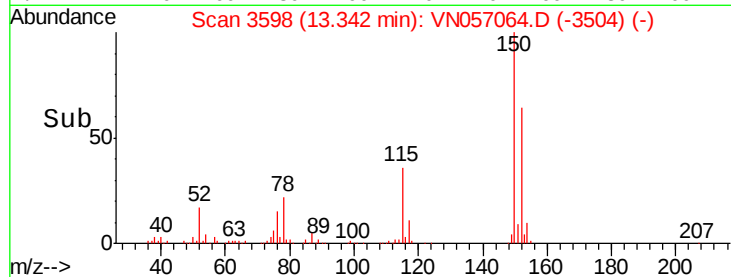
150 156.7 0.0 349.4



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



#76

1,2,3-Trichloropropane

Concen: 31.534 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057064.D

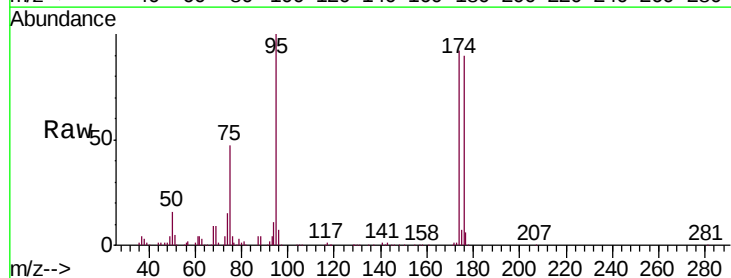
Acq: 2 Aug 2019 14:19

Tgt Ion: 75 Resp: 110934

Ion Ratio Lower Upper

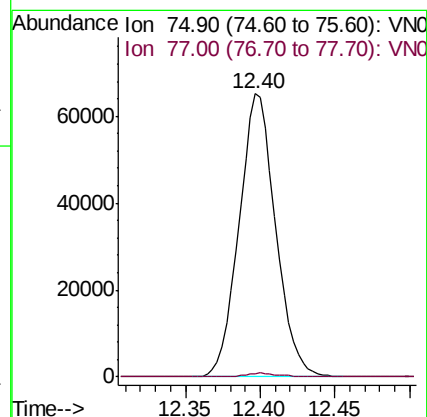
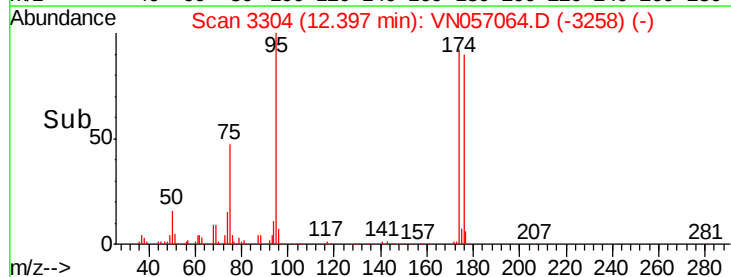
75 100

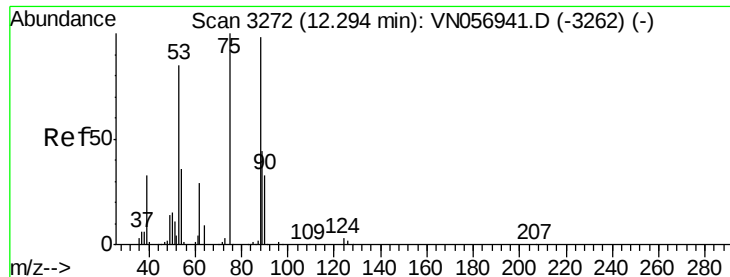
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 101.317 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN057064.D

Acq: 2 Aug 2019 14:19

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

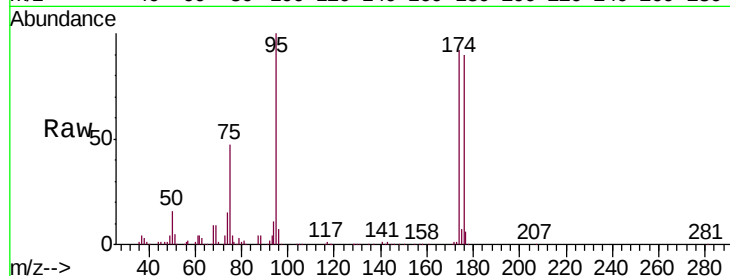
Tgt Ion: 75 Resp: 110934

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

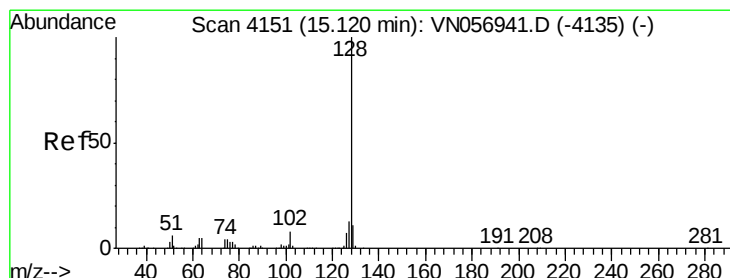
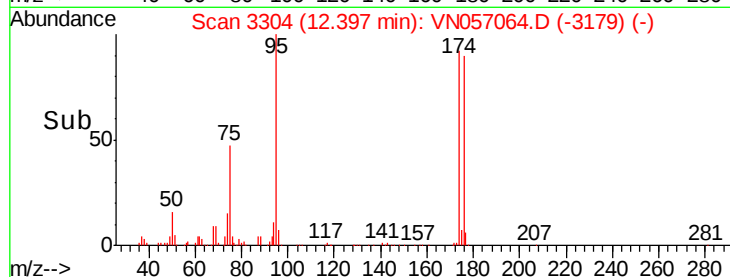
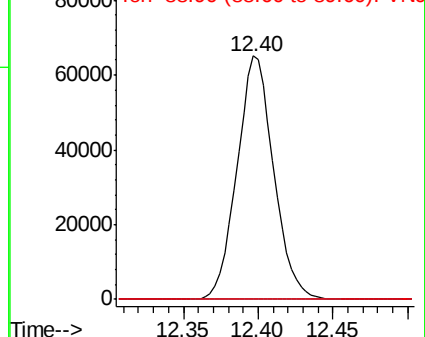
89 0.0 35.8 53.6#



Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-3262) (-)

Ion 53.00 (52.70 to 53.70): VN056941.D (-3262) (-)

Ion 88.90 (88.60 to 89.60): VN056941.D (-3262) (-)



#95

Naphthalene

Concen: 3.615 ug/l

RT: 15.12 min Scan# 4151

Delta R.T. 0.00 min

Lab File: VN057064.D

Acq: 2 Aug 2019 14:19

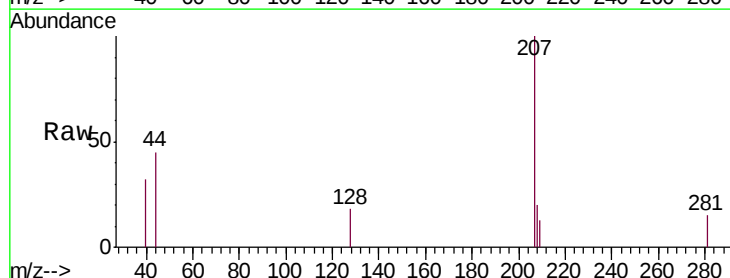
Tgt Ion: 128 Resp: 219

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN056941.D (-4135) (-)

Ion 127.00 (126.70 to 127.70): VN056941.D (-4135) (-)

Ion 129.00 (128.70 to 129.70): VN056941.D (-4135) (-)

