

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN032520\  
 Data File : VN060698.D  
 Acq On : 25 Mar 2020 15:36  
 Operator : JC/MD  
 Sample : L2008-03  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MH-4

Quant Time: Mar 26 02:50:26 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 18 08:49:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 200896   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 332909   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 313295   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 147338   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 130510   | 47.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.64%  |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 99419    | 49.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.78%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 410524   | 49.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.86%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 155316   | 51.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.08% |          |

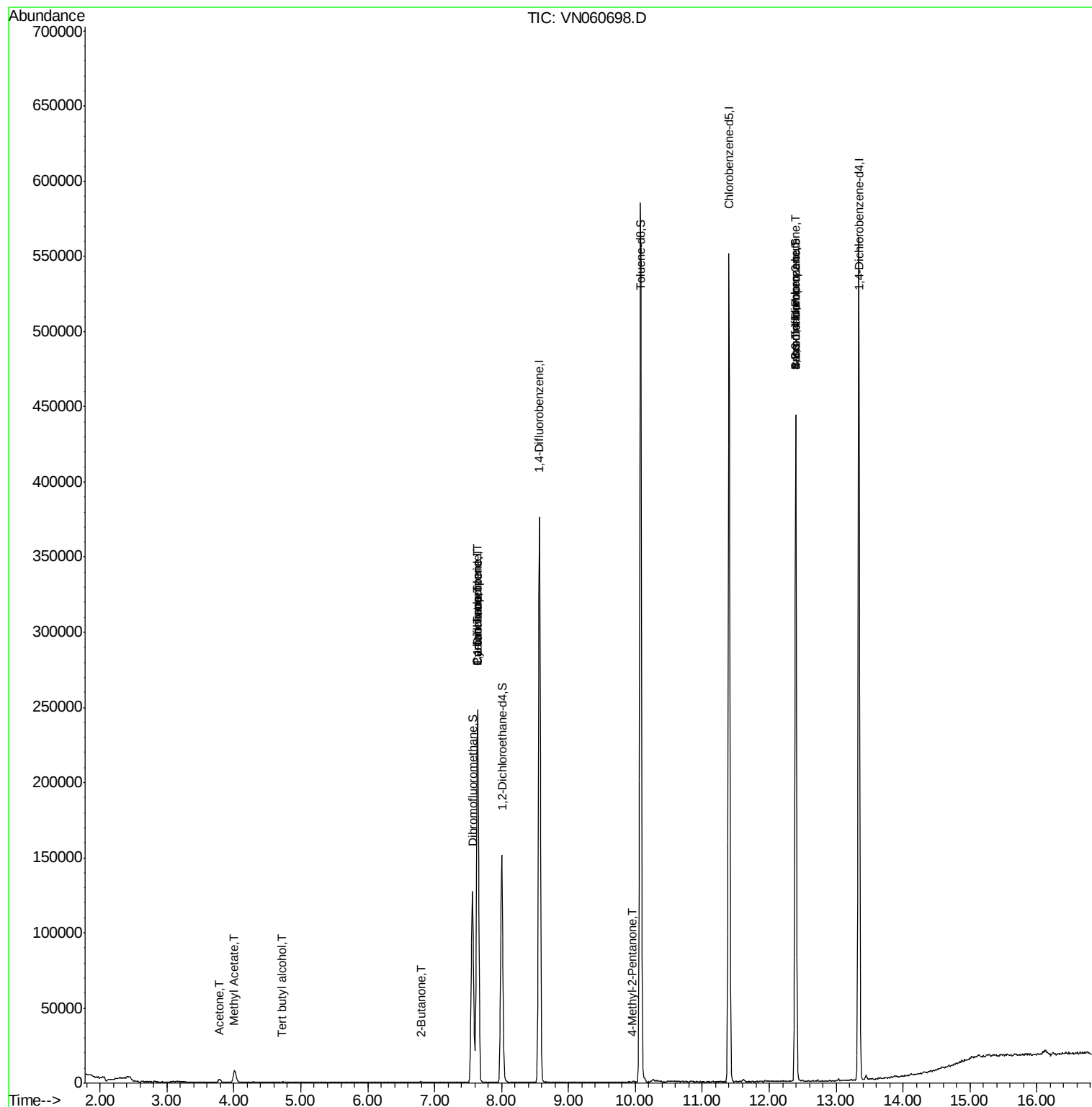
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 4.72  | 59   | 973      | 2.399  | ug/l # | 72     |
| 16) Acetone                    | 3.78  | 43   | 3560     | 3.644  | ug/l   | 95     |
| 18) Methyl Acetate             | 4.01  | 43   | 2897     | 1.054  | ug/l # | 54     |
| 25) 2-Butanone                 | 6.79  | 43   | 349      | 0.221  | ug/l # | 50     |
| 31) Cyclohexane                | 7.64  | 56   | 4199     | 0.945  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 15879    | 4.926  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 18869    | 6.531  | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 1086     | 0.332  | ug/l # | 37     |
| 71) Bromoform                  | 12.40 | 173  | 439      | 1.907  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 78160    | 24.584 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 78160    | 63.140 | ug/l # | 13     |

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

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Instrument :  
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MH-4

Quant Time: Mar 26 02:50:26 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 18 08:49:09 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060698.D

Acq: 25 Mar 2020 15:36

Instrument :

MSVOA\_N

ClientSampleId :

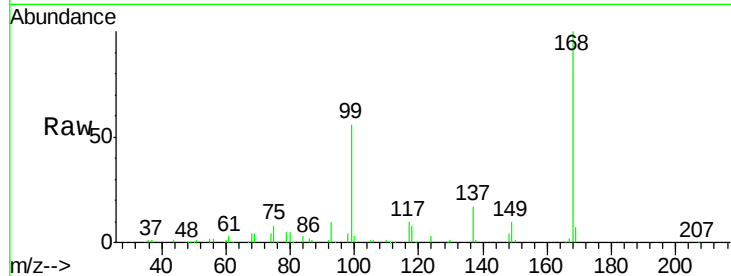
MH-4

Tgt Ion: 168 Resp: 200896

Ion Ratio Lower Upper

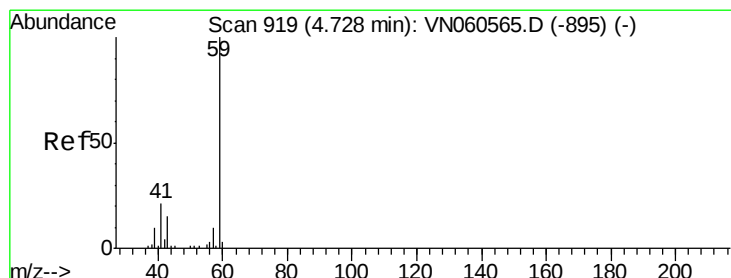
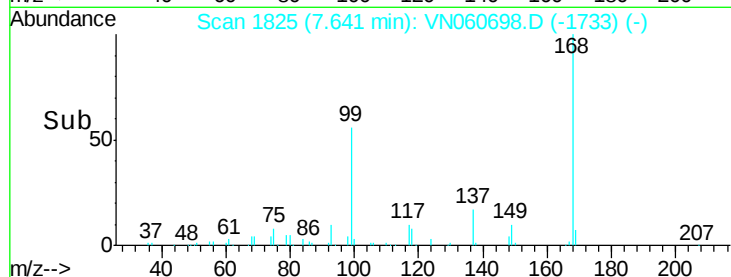
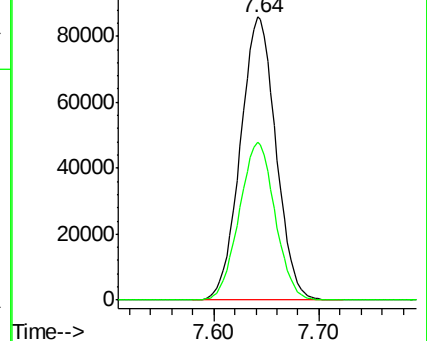
168 100

99 55.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060565.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN060565.D (-1807) (-)



#11

Tert butyl alcohol

Concen: 2.399 ug/l

RT: 4.72 min Scan# 917

Delta R.T. -0.01 min

Lab File: VN060698.D

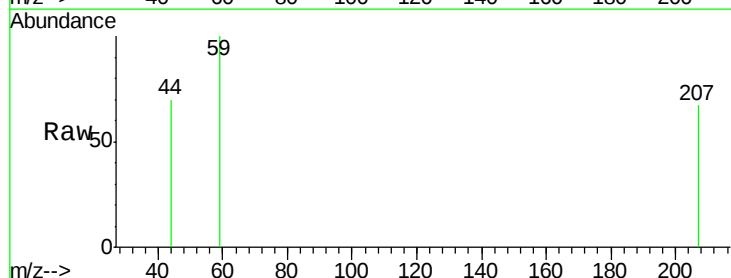
Acq: 25 Mar 2020 15:36

Tgt Ion: 59 Resp: 973

Ion Ratio Lower Upper

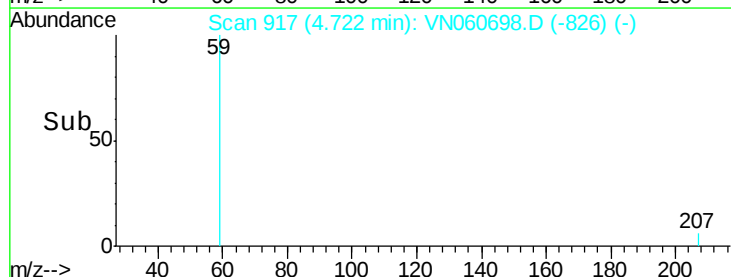
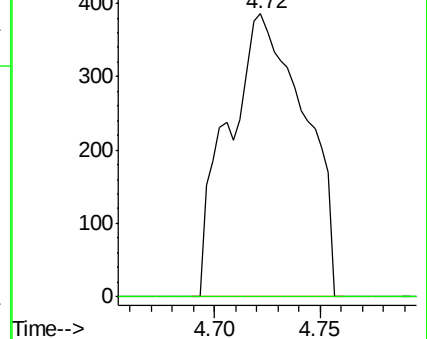
59 100

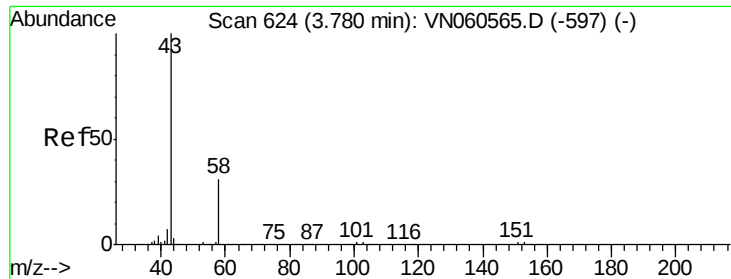
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN060565.D (-895) (-)

Ion 57.00 (56.70 to 57.70): VN060565.D (-895) (-)

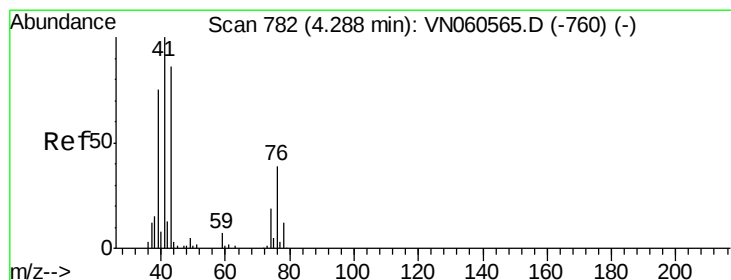
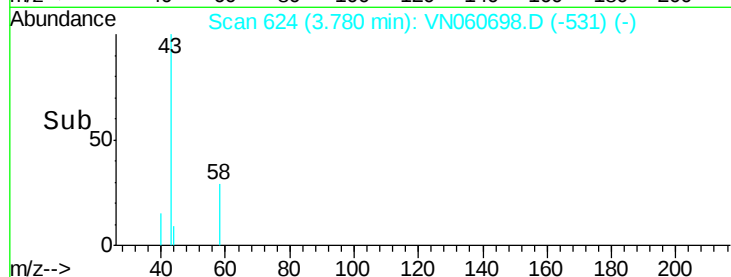
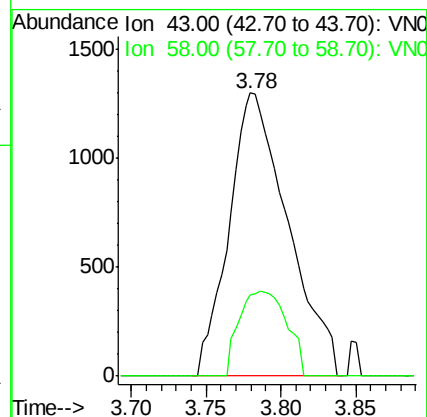
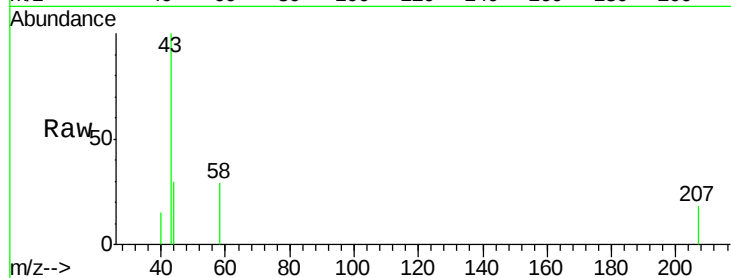




#16  
Acetone  
Concen: 3.644 ug/l  
RT: 3.78 min Scan# 624  
Delta R.T. -0.00 min  
Lab File: VN060698.D  
Acq: 25 Mar 2020 15:36

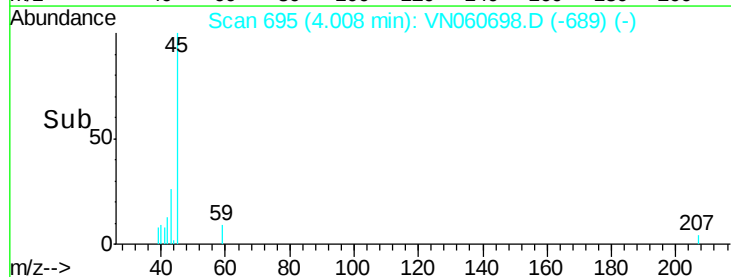
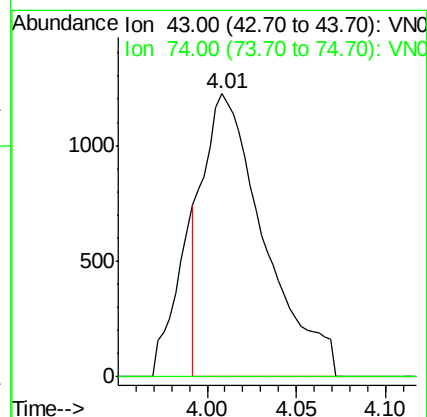
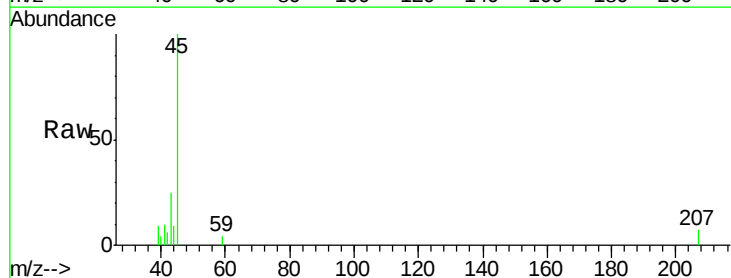
Instrument :  
MSVOA\_N  
ClientSampled :  
MH-4

Tgt Ion: 43 Resp: 3560  
Ion Ratio Lower Upper  
43 100  
58 28.7 25.1 37.7



#18  
Methyl Acetate  
Concen: 1.054 ug/l  
RT: 4.01 min Scan# 695  
Delta R.T. -0.28 min  
Lab File: VN060698.D  
Acq: 25 Mar 2020 15:36

Tgt Ion: 43 Resp: 2897  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.5 26.3#

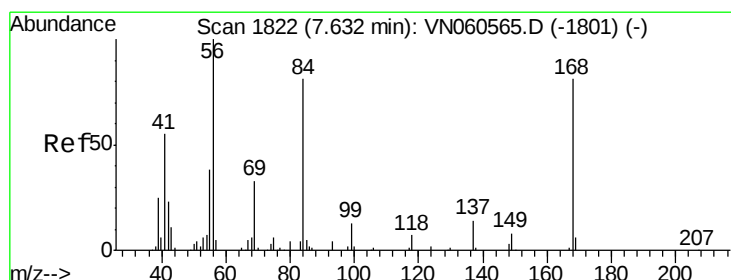
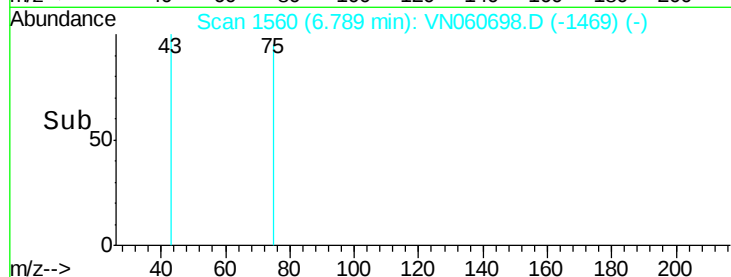
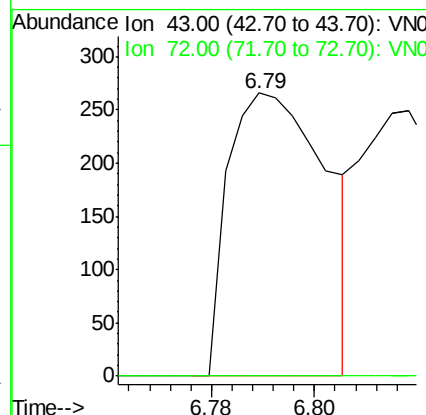
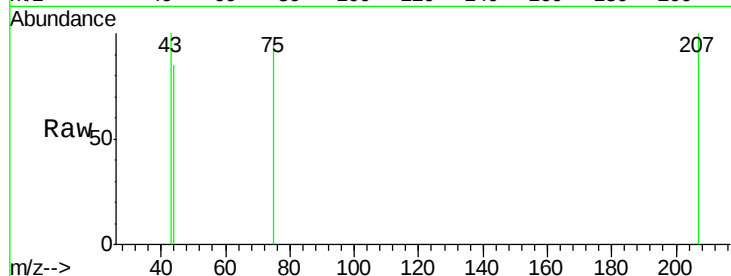




#25  
2-Butanone  
Concen: 0.221 ug/l  
RT: 6.79 min Scan# 1560  
Delta R.T. -0.01 min  
Lab File: VN060698.D  
Acq: 25 Mar 2020 15:36

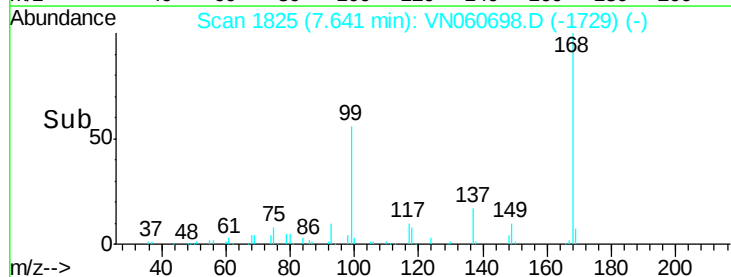
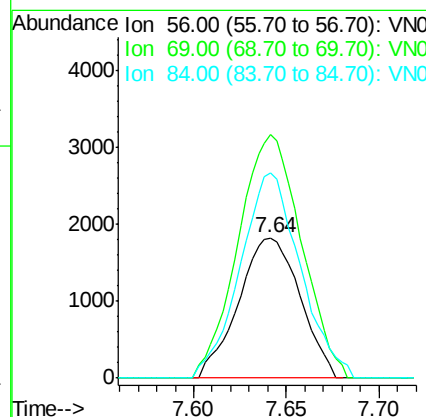
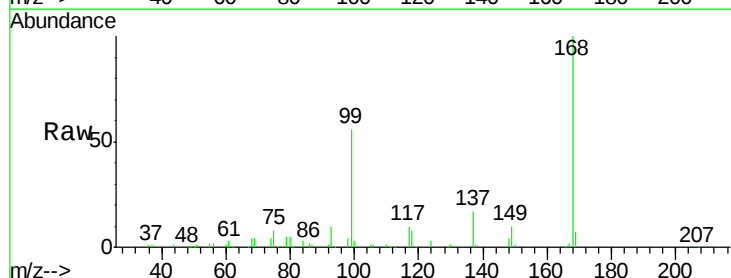
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-4

Tgt Ion: 43 Resp: 349  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.4 30.6#



#31  
Cyclohexane  
Concen: 0.945 ug/l  
RT: 7.64 min Scan# 1825  
Delta R.T. 0.01 min  
Lab File: VN060698.D  
Acq: 25 Mar 2020 15:36

Tgt Ion: 56 Resp: 4199  
Ion Ratio Lower Upper  
56 100  
69 173.9 26.6 40.0#  
84 146.7 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 47.323 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060698.D

Acq: 25 Mar 2020 15:36

Instrument :

MSVOA\_N

ClientSampleId :

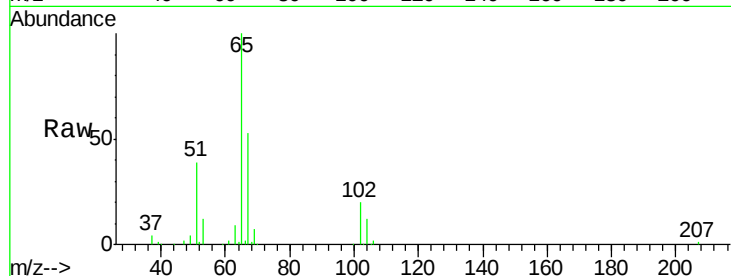
MH-4

Tgt Ion: 65 Resp: 130510

Ion Ratio Lower Upper

65 100

67 53.1 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060698.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060698.D (-1845) (-)

8.00

60000

50000

40000

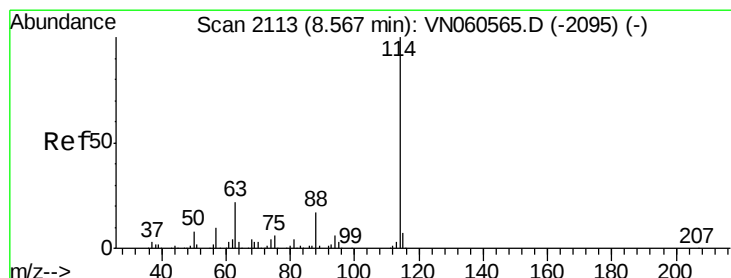
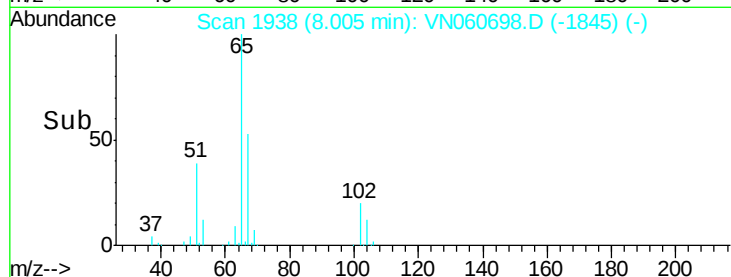
30000

20000

10000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060698.D

Acq: 25 Mar 2020 15:36

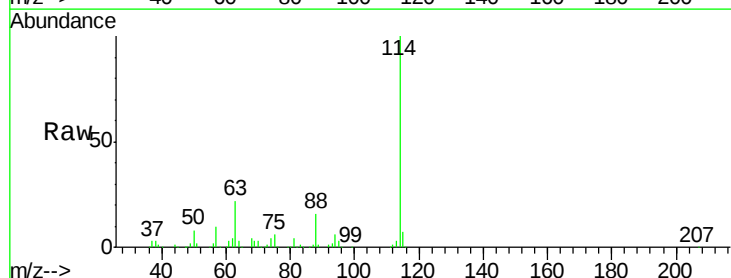
Tgt Ion: 114 Resp: 332909

Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.8

88 16.5 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): VN060698.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN060698.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN060698.D (-2020) (-)

8.57

200000

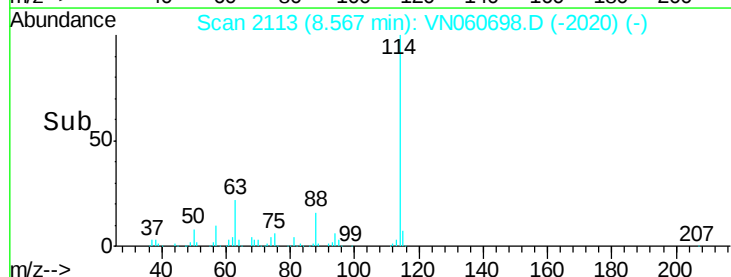
150000

100000

50000

0

Time--> 8.45 8.50 8.55 8.60 8.65

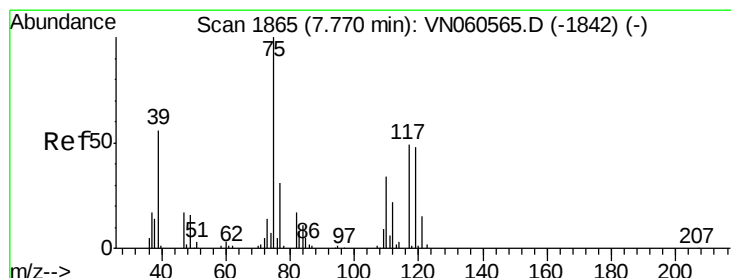
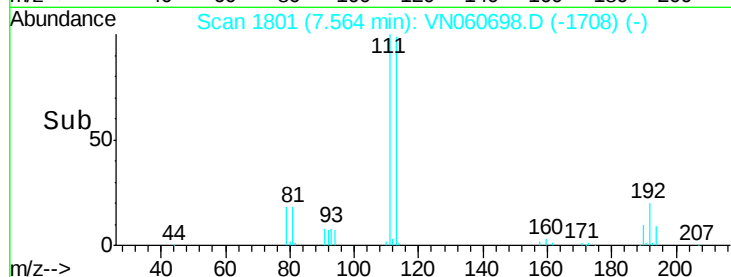
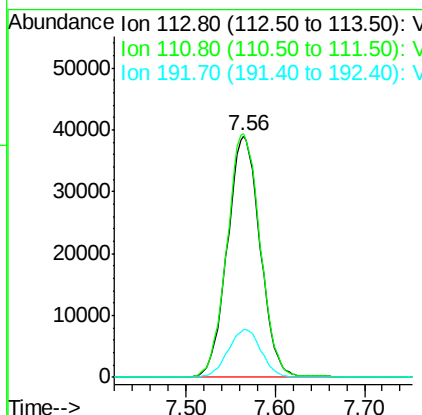
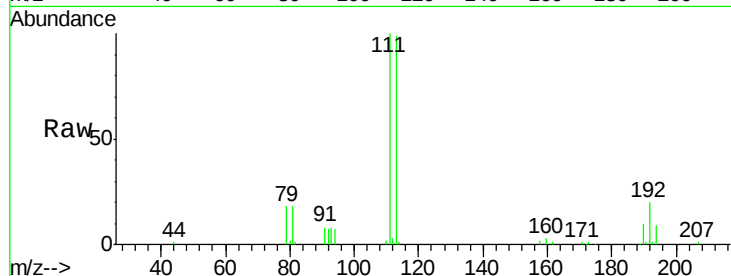




#35  
 Dibromofluoromethane  
 Concen: 49.389 ug/l  
 RT: 7.56 min Scan# 1801  
 Delta R.T. -0.00 min  
 Lab File: VN060698.D  
 Acq: 25 Mar 2020 15:36

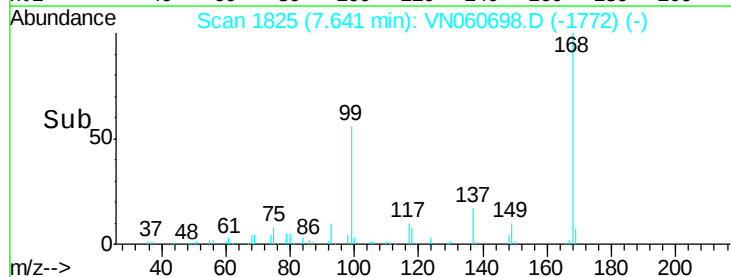
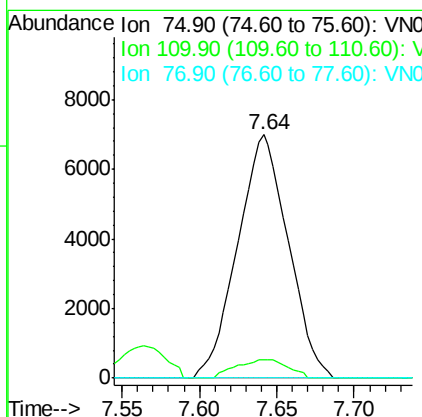
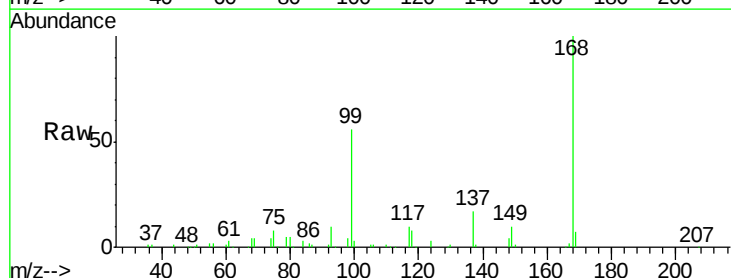
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 MH-4

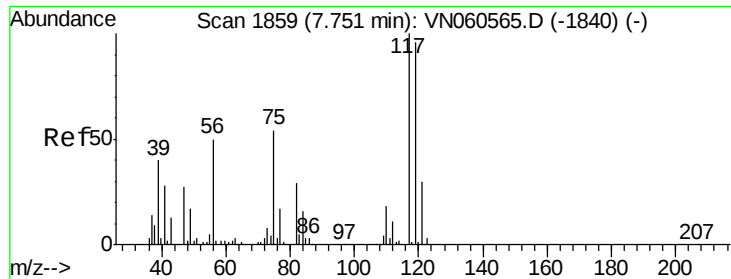
Tgt Ion:113 Resp: 99419  
 Ion Ratio Lower Upper  
 113 100  
 111 101.9 82.9 124.3  
 192 19.9 15.8 23.8



#36  
 1,1-Dichloropropene  
 Concen: 4.926 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.13 min  
 Lab File: VN060698.D  
 Acq: 25 Mar 2020 15:36

Tgt Ion: 75 Resp: 15879  
 Ion Ratio Lower Upper  
 75 100  
 110 7.8 16.9 50.6#  
 77 0.0 24.6 36.8#

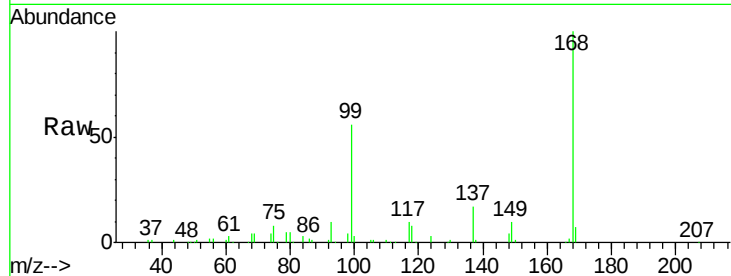




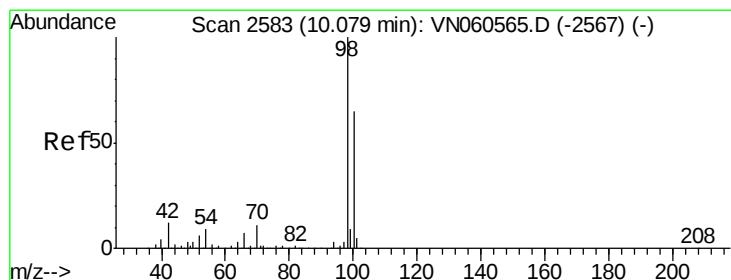
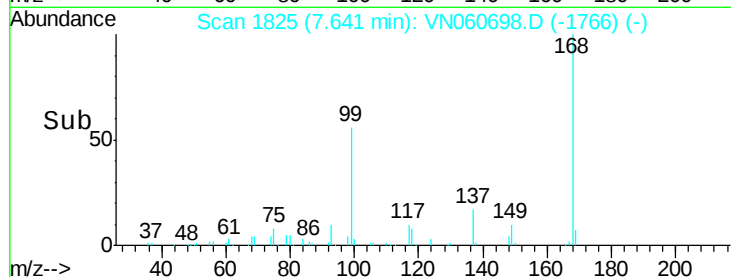
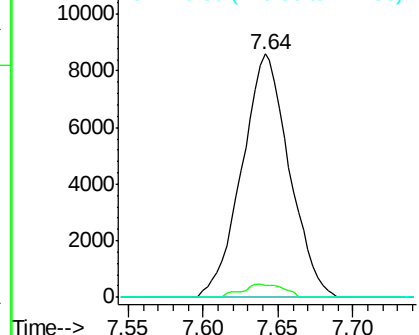
#38  
Carbon Tetrachloride  
Concen: 6.531 ug/l  
RT: 7.64 min Scan# 1825  
Delta R.T. -0.11 min  
Lab File: VN060698.D  
Acq: 25 Mar 2020 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-4

Tgt Ion: 117 Resp: 18869  
Ion Ratio Lower Upper  
117 100  
119 4.8 76.2 114.2#  
121 0.0 23.7 35.5#

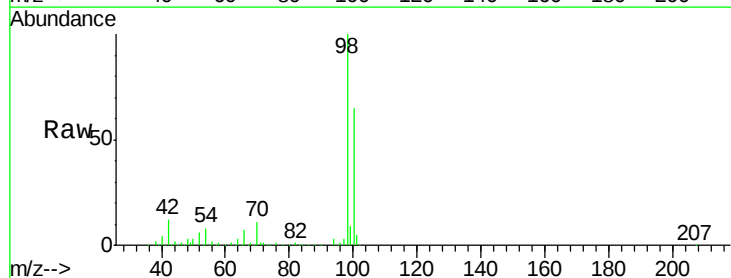


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

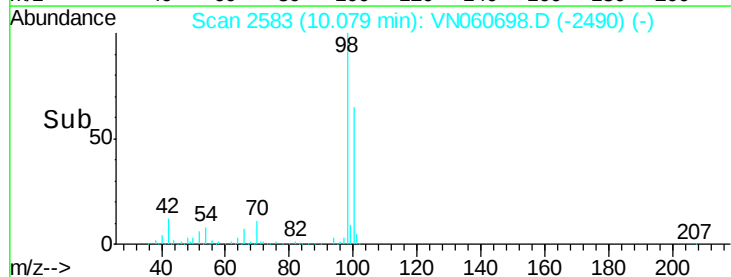
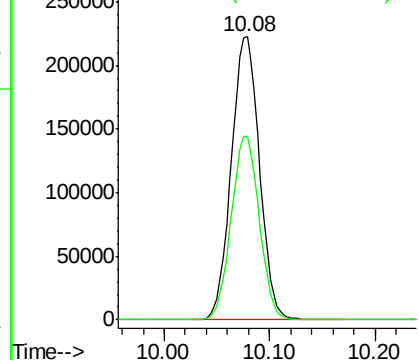


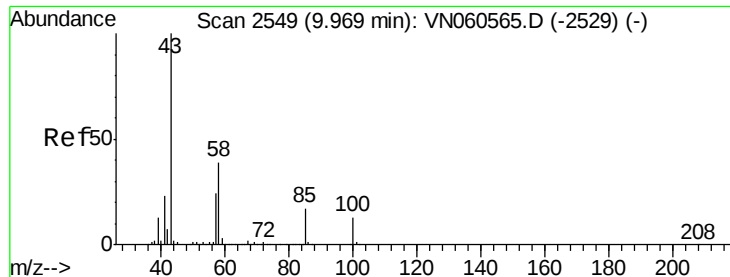
#50  
Toluene-d8  
Concen: 49.928 ug/l  
RT: 10.08 min Scan# 2583  
Delta R.T. -0.00 min  
Lab File: VN060698.D  
Acq: 25 Mar 2020 15:36

Tgt Ion: 98 Resp: 410524  
Ion Ratio Lower Upper  
98 100  
100 64.6 51.8 77.8



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





#51

4-Methyl-2-Pentanone

Concen: 0.332 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060698.D

Acq: 25 Mar 2020 15:36

Instrument :

MSVOA\_N

ClientSampleId :

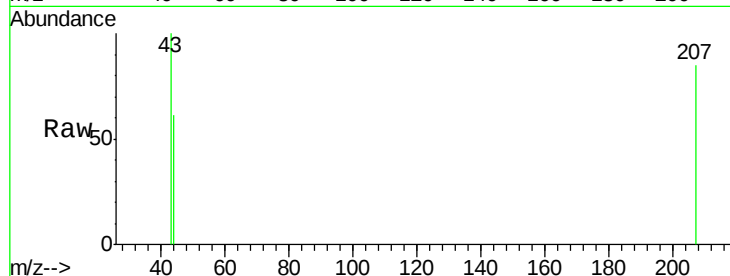
MH-4

Tgt Ion: 43 Resp: 1086

Ion Ratio Lower Upper

43 100

58 0.0 30.8 46.2#



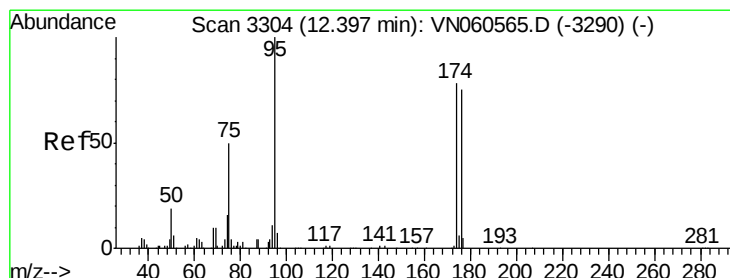
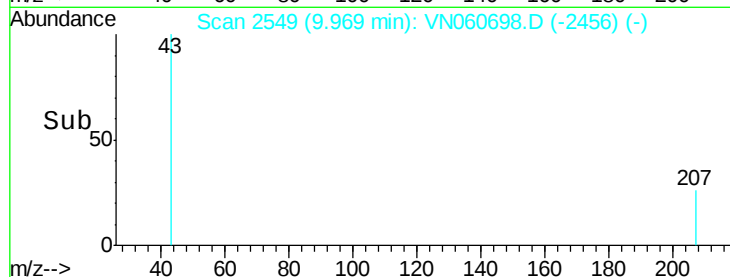
Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-2529) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-2529) (-)

9.97

9.95 10.00

Time-->



#62

4-Bromofluorobenzene

Concen: 51.542 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060698.D

Acq: 25 Mar 2020 15:36

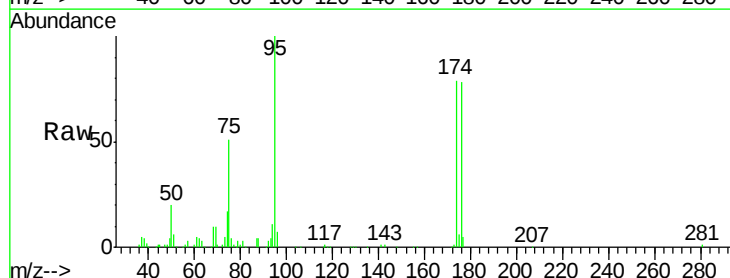
Tgt Ion: 95 Resp: 155316

Ion Ratio Lower Upper

95 100

174 78.2 0.0 157.6

176 76.0 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060565.D (-3290) (-)

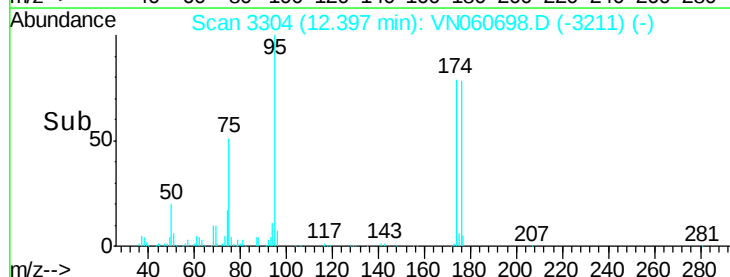
Ion 173.80 (173.50 to 174.50): VN060565.D (-3290) (-)

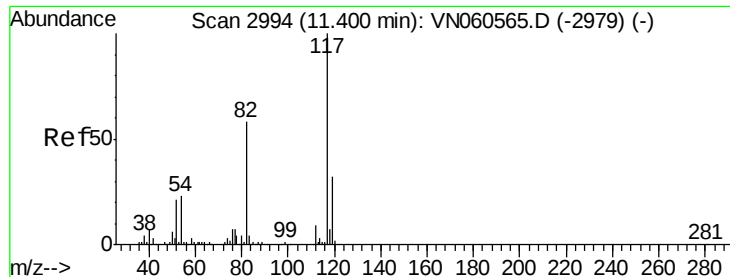
Ion 175.80 (175.50 to 176.50): VN060565.D (-3290) (-)

12.40

12.35 12.45

Time-->

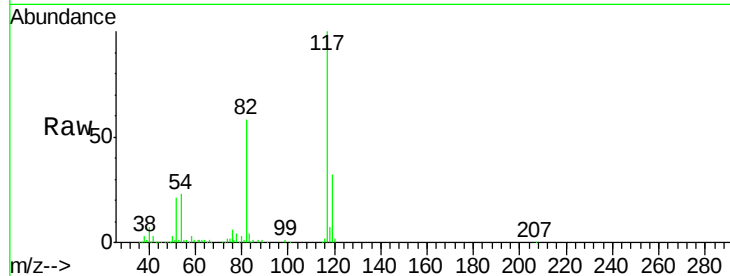




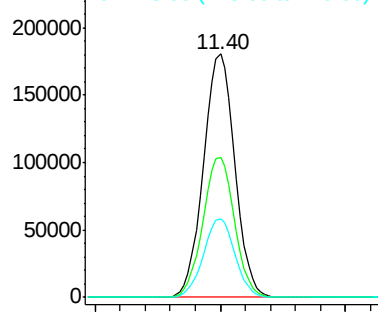
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. -0.00 min  
Lab File: VN060698.D  
Acq: 25 Mar 2020 15:36

Instrument :  
MSVOA\_N  
ClientSampled :  
MH-4

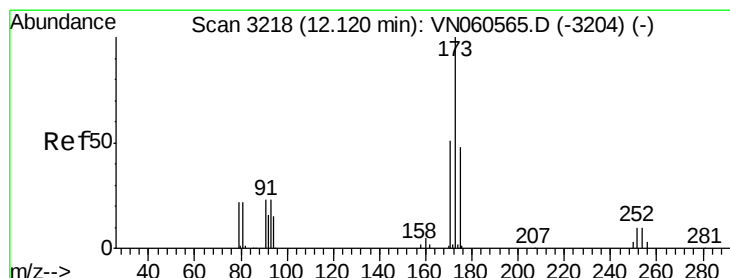
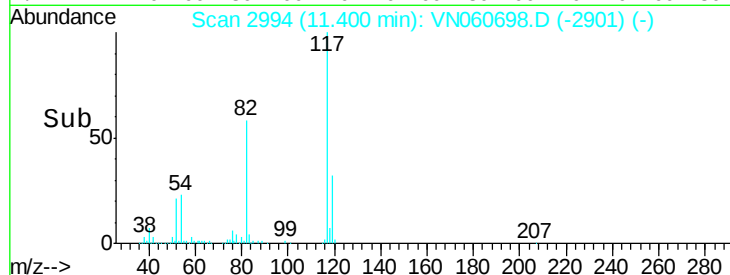
Tgt Ion:117 Resp: 313295  
Ion Ratio Lower Upper  
117 100  
82 57.5 46.7 70.1  
119 32.3 25.5 38.3



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

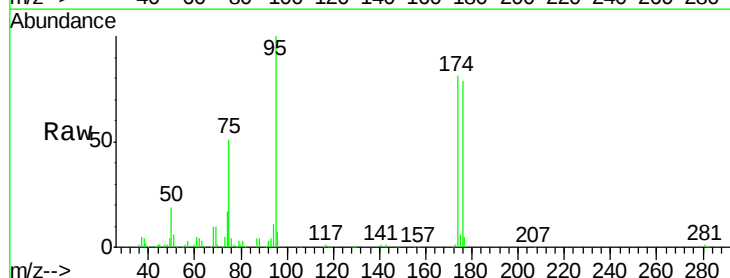


Time--> 11.30 11.40 11.50

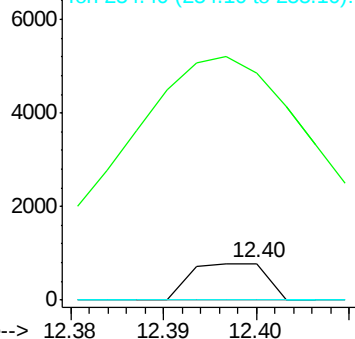


#71  
Bromoform  
Concen: 1.907 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.28 min  
Lab File: VN060698.D  
Acq: 25 Mar 2020 15:36

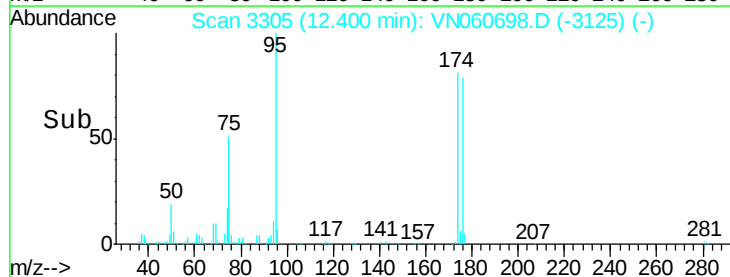
Tgt Ion:173 Resp: 439  
Ion Ratio Lower Upper  
173 100  
175 1672.9 24.1 72.4#  
254 0.0 0.0 0.0

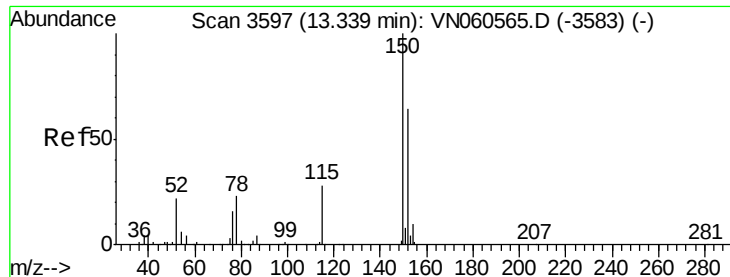


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V



Time--> 12.38 12.39 12.40





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060698.D

Acq: 25 Mar 2020 15:36

Instrument :

MSVOA\_N

ClientSampleId :

MH-4

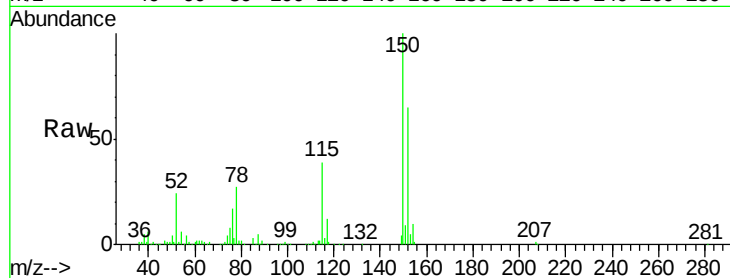
Tgt Ion:152 Resp: 147338

Ion Ratio Lower Upper

152 100

115 59.8 30.2 90.6

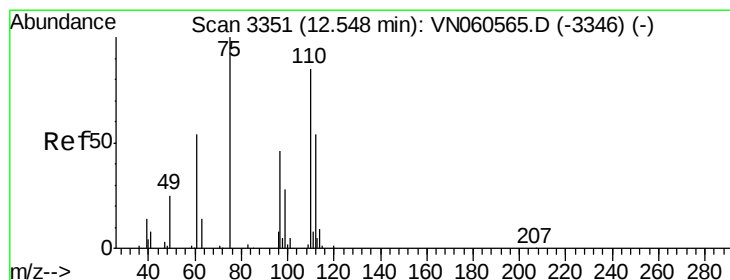
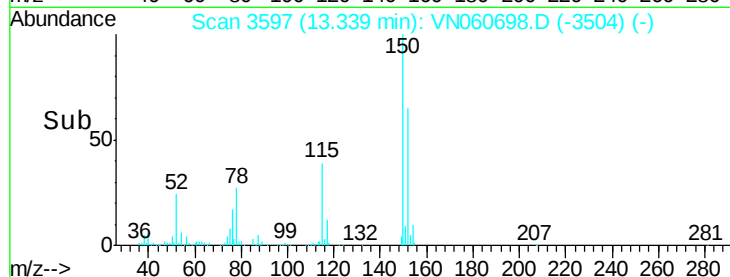
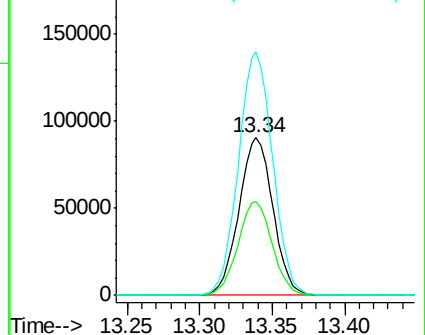
150 155.6 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.584 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060698.D

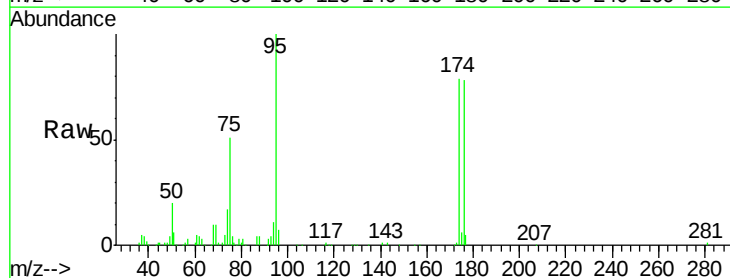
Acq: 25 Mar 2020 15:36

Tgt Ion: 75 Resp: 78160

Ion Ratio Lower Upper

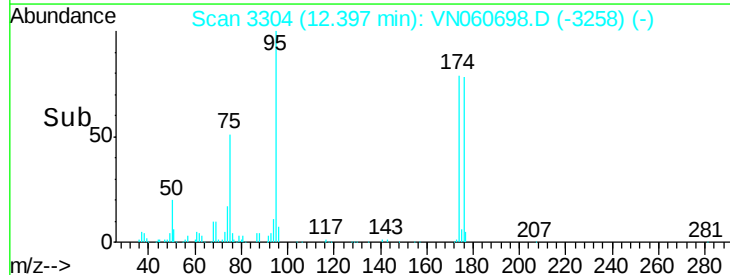
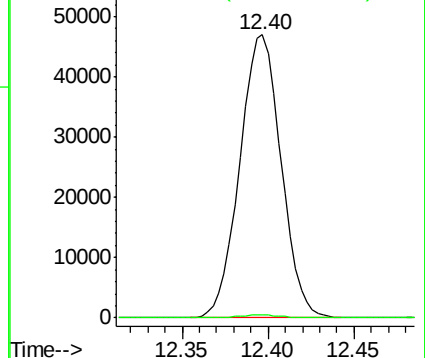
75 100

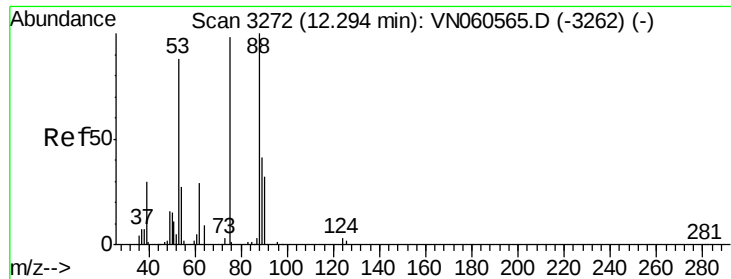
77 0.9 0.0 0.0#



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: 63.140 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060698.D

Acq: 25 Mar 2020 15:36

Instrument :

MSVOA\_N

ClientSampleId :

MH-4

Tgt Ion: 75 Resp: 78160

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

