

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\  
 Data File : VN054824.D  
 Acq On : 31 Mar 2019 1:44  
 Operator : JC/SP  
 Sample : K2164-02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-2R

Quant Time: Mar 31 05:03:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032919W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 30 00:48:18 2019  
 Response via : Initial Calibration

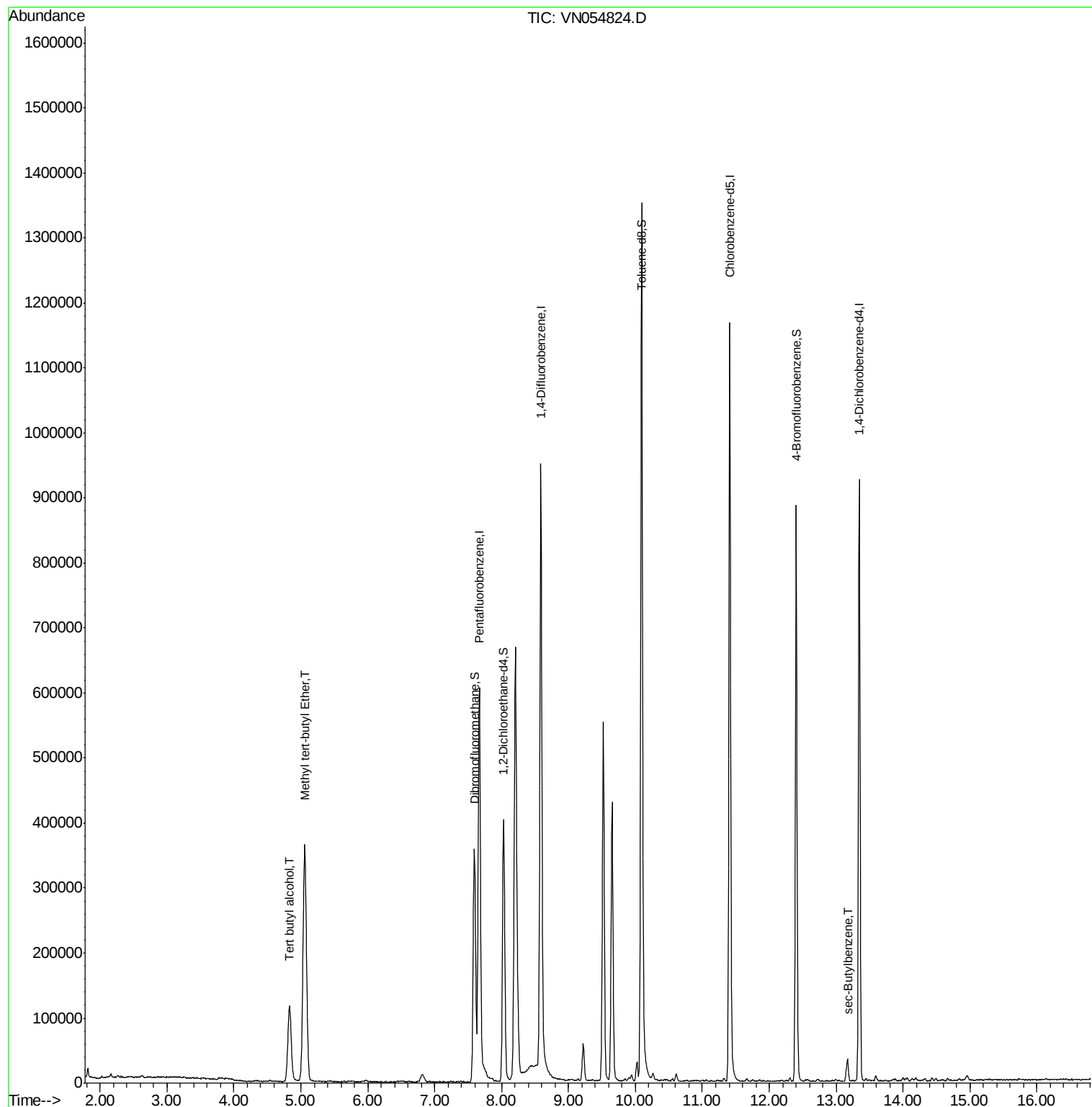
| Internal Standards          | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|---------|--------|----------|
| 1) Pentafluorobenzene       | 7.67  | 168  | 521243   | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59  | 114  | 852709   | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 695299   | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 246026   | 50.00   | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 347974   | 49.52   | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 99.04% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 273024   | 48.03   | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 96.06% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1007095  | 47.65   | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 95.30% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 298811   | 42.51   | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 85.02% |          |
| Target Compounds            |       |      |          |         |        |          |
| 11) Tert butyl alcohol      | 4.83  | 59   | 193408   | 528.302 | ug/l   | 98       |
| 19) Methyl tert-butyl Ether | 5.06  | 73   | 581113   | 40.546  | ug/l   | 94       |
| 85) sec-Butylbenzene        | 13.17 | 105  | 19989    | 1.115   | ug/l   | 81       |

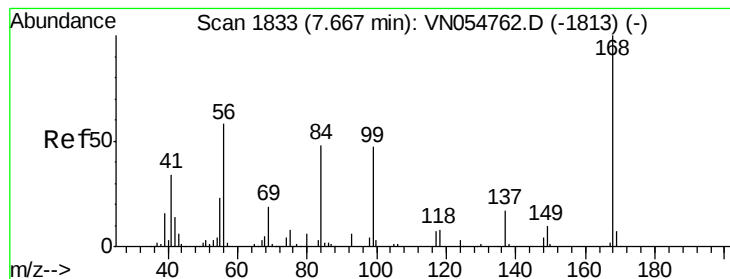
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN033019\  
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ClientSampleId :  
MW-2R

Quant Time: Mar 31 05:03:16 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N032919W.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 30 00:48:18 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA\_N

ClientSampleId :

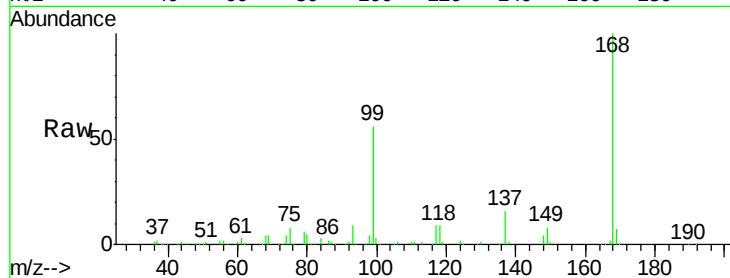
MW-2R

Tot Ion:168 Resp: 521243

Ion Ratio Lower Upper

168 100

99 55.8 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

200000

150000

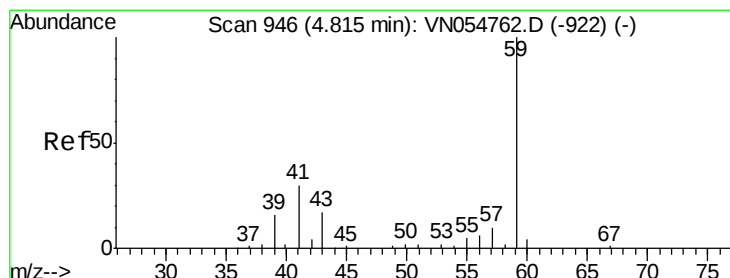
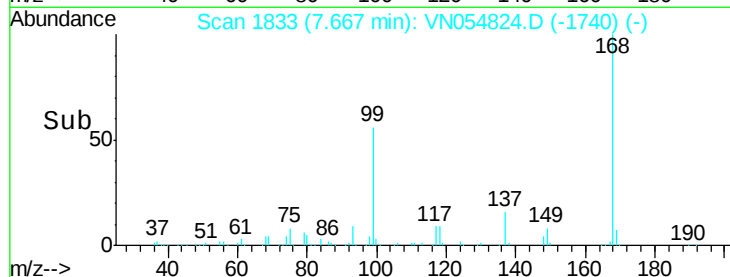
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 528.302 ug/l

RT: 4.83 min Scan# 950

Delta R.T. 0.01 min

Lab File: VN054824.D

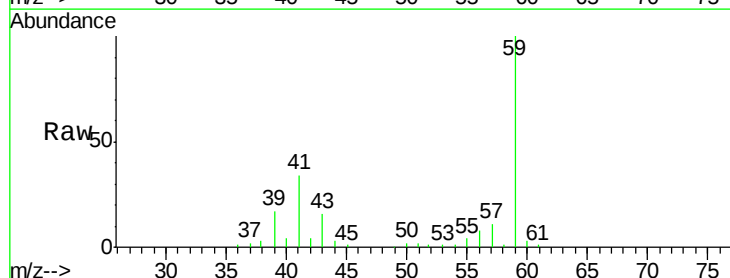
Acq: 31 Mar 2019 1:44

Tgt Ion: 59 Resp: 193408

Ion Ratio Lower Upper

59 100

57 10.6 9.0 13.6



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.83

60000

50000

40000

30000

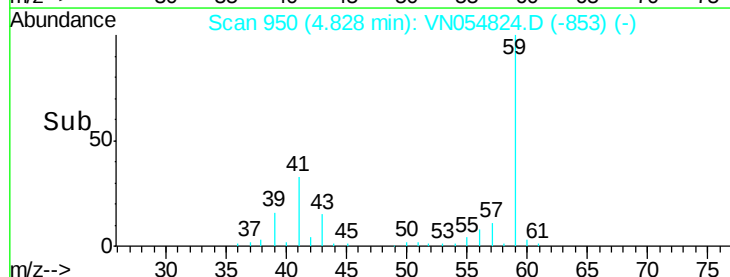
20000

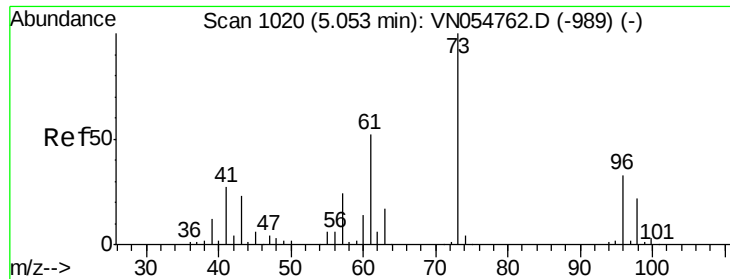
10000

0

4.70 4.80 4.90

Time-->

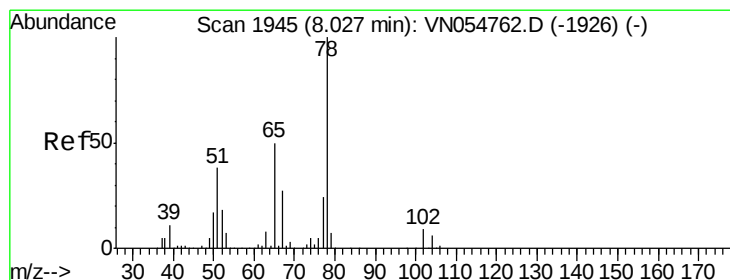
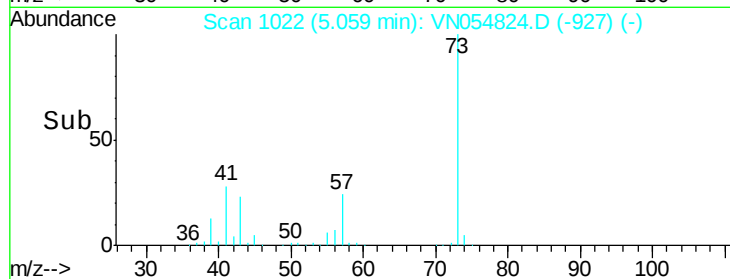
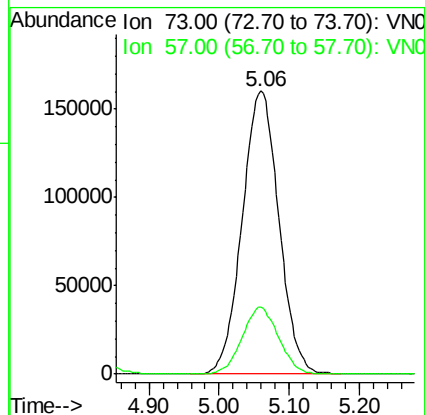
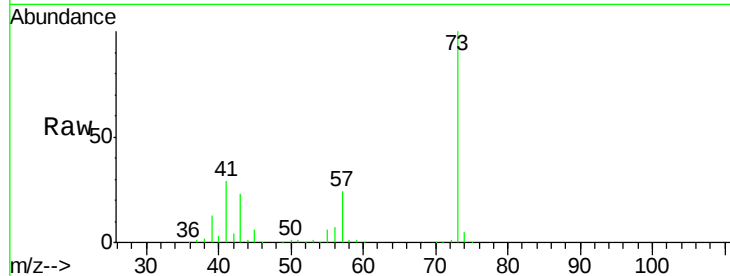




#19  
Methvl tert-butvl Ether  
Concen: 40.546 ug/l  
RT: 5.06 min Scan# 1022  
Delta R.T. 0.01 min  
Lab File: VN054824.D  
Acq: 31 Mar 2019 1:44

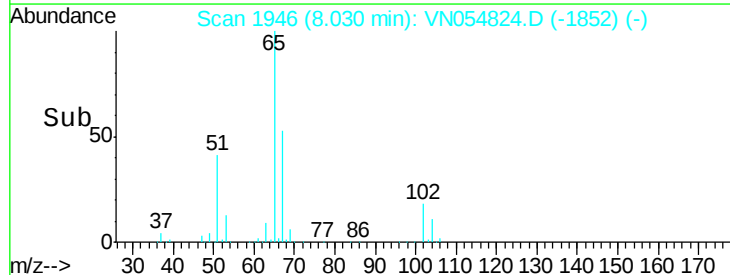
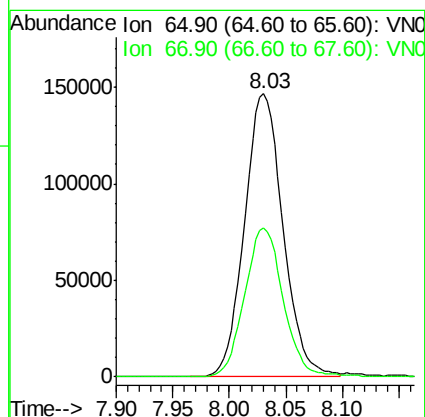
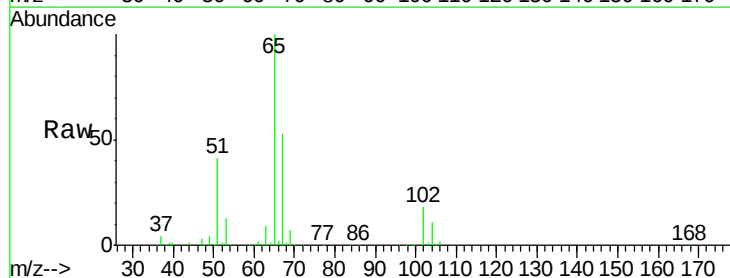
Instrument :  
MSVOA\_N  
ClientSampled :  
MW-2R

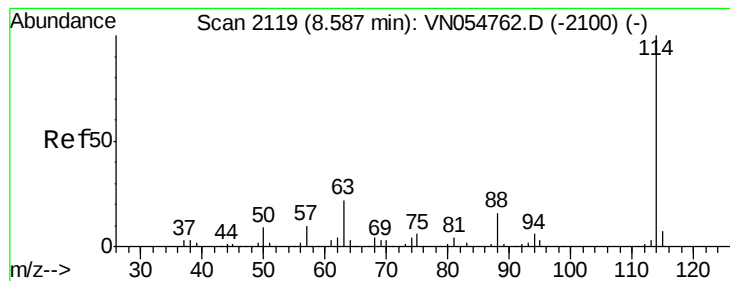
Tot Ion: 73 Resp: 581113  
Ion Ratio Lower Upper  
73 100  
57 23.7 16.8 25.2



#33  
1,2-Dichloroethane-d4  
Concen: 49.523 ug/l  
RT: 8.03 min Scan# 1946  
Delta R.T. 0.00 min  
Lab File: VN054824.D  
Acq: 31 Mar 2019 1:44

Tgt Ion: 65 Resp: 347974  
Ion Ratio Lower Upper  
65 100  
67 52.7 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2120

Delta R.T. 0.00 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA\_N

ClientSampleId :

MW-2R

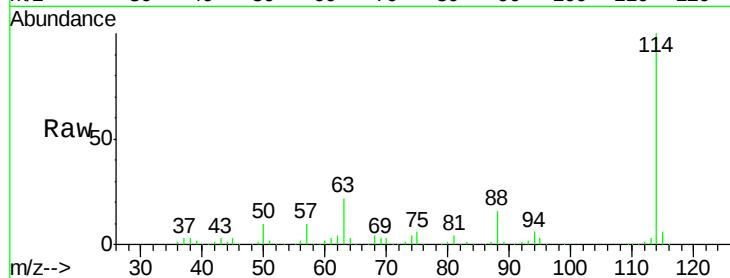
Tot Ion:114 Resp: 852709

Ion Ratio Lower Upper

114 100

63 22.5 0.0 35.2

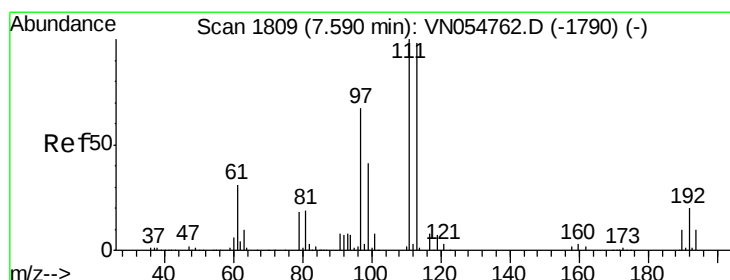
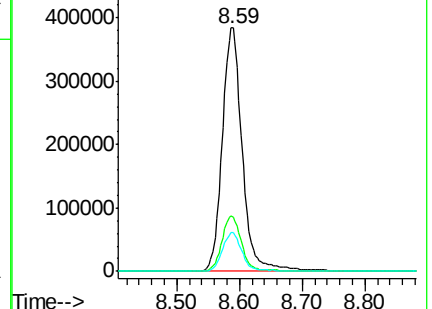
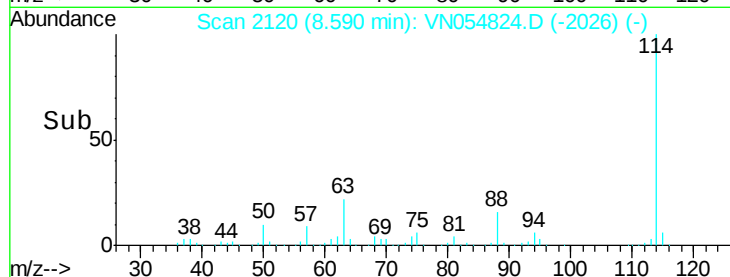
88 16.0 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 48.026 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

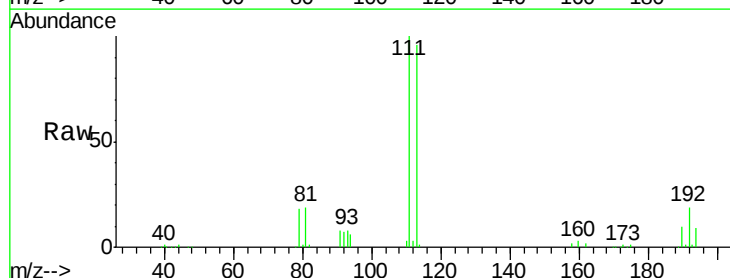
Tgt Ion:113 Resp: 273024

Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.4

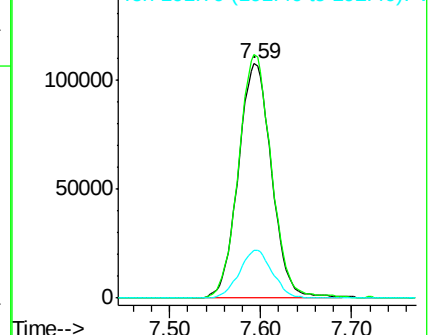
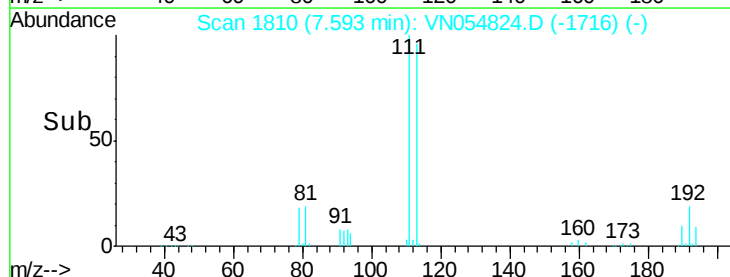
192 20.2 19.2 28.8

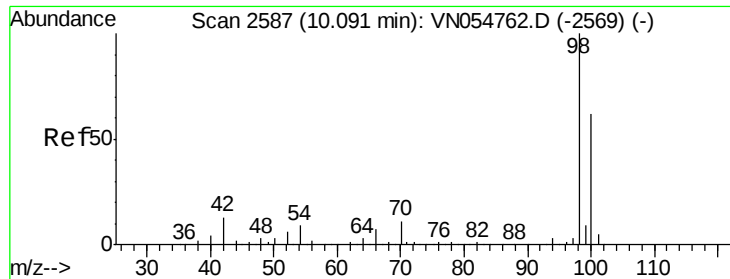


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 47.650 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA\_N

ClientSampleId :

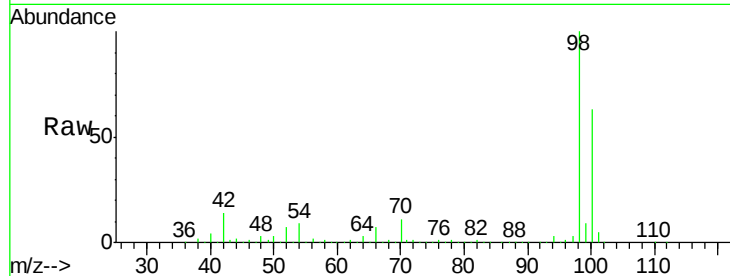
MW-2R

Tot Ion: 98 Resp: 1007095

Ion Ratio Lower Upper

98 100

100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054762.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054762.D (-2569) (-)

10.09

600000

500000

400000

300000

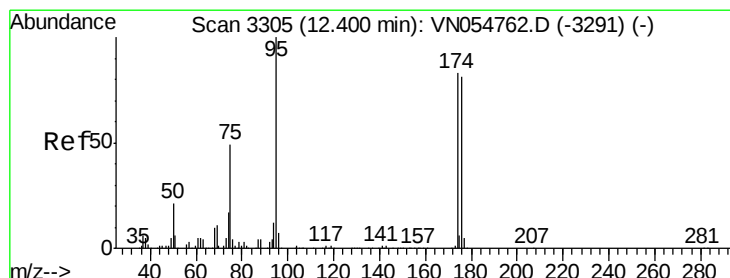
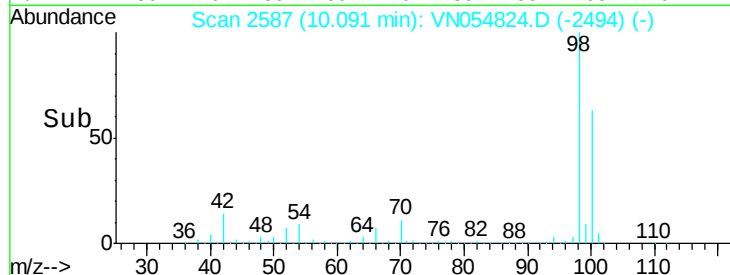
200000

100000

0

Time-->

10.00 10.20



#62

4-Bromofluorobenzene

Concen: 42.511 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

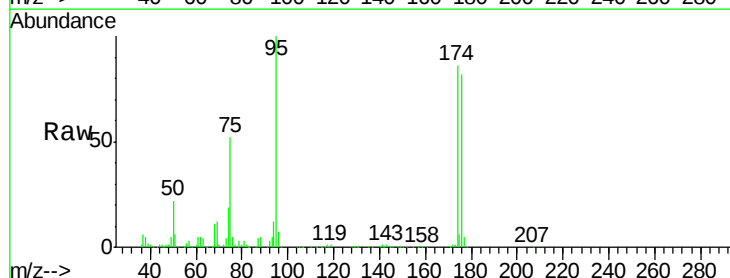
Tgt Ion: 95 Resp: 298811

Ion Ratio Lower Upper

95 100

174 83.9 0.0 191.0

176 80.4 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054762.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054762.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054762.D (-3291) (-)

12.40

200000

150000

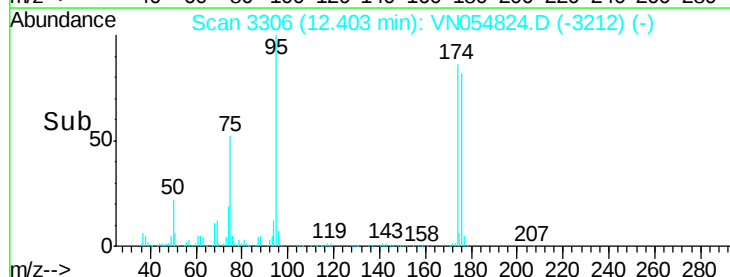
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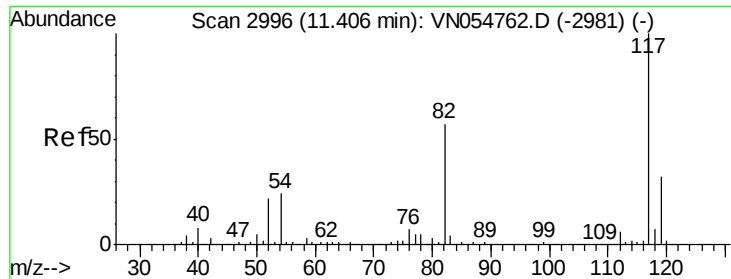
50000

0

Time-->

12.30 12.40 12.50





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA\_N

ClientSampleId :

MW-2R

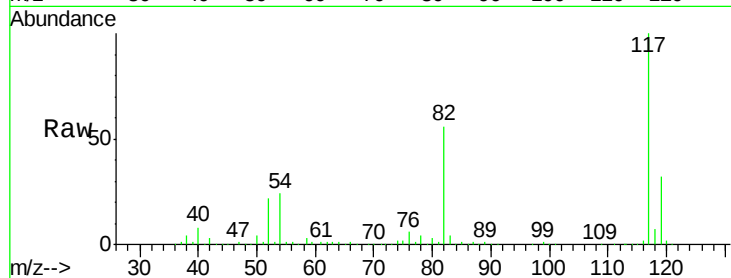
Tot Ion:117 Resp: 695299

Ion Ratio Lower Upper

117 100

82 55.7 40.0 60.0

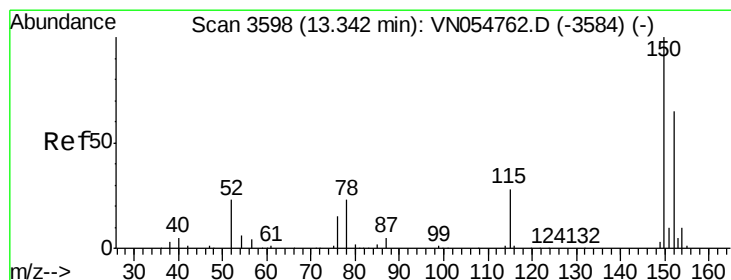
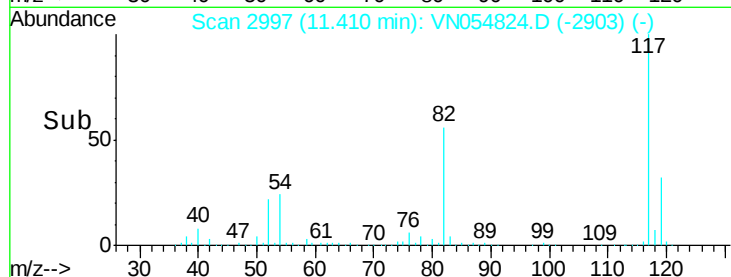
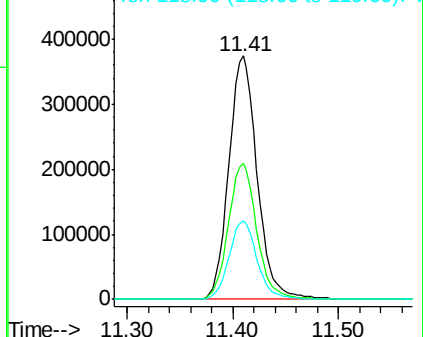
119 32.4 25.8 38.6



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

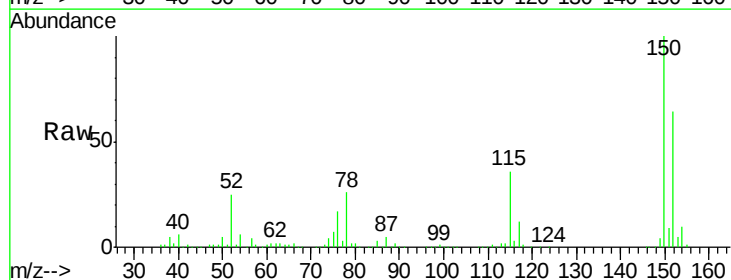
Tgt Ion:152 Resp: 246026

Ion Ratio Lower Upper

152 100

115 57.3 27.2 81.6

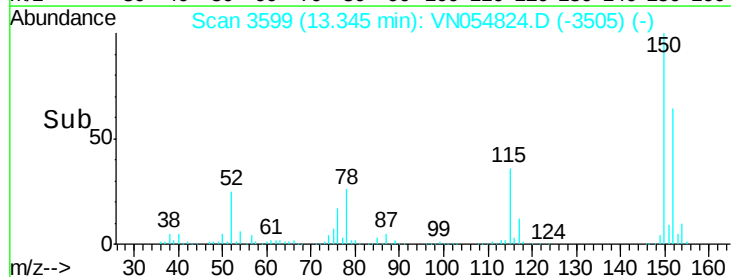
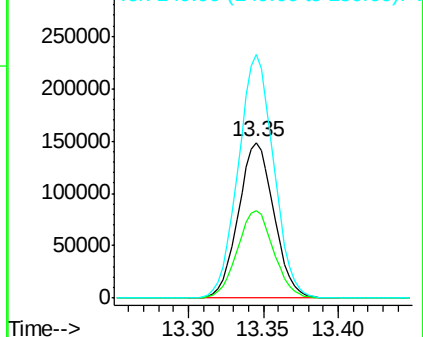
150 155.9 0.0 349.2

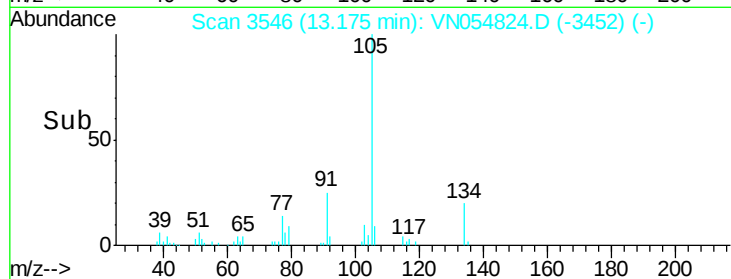
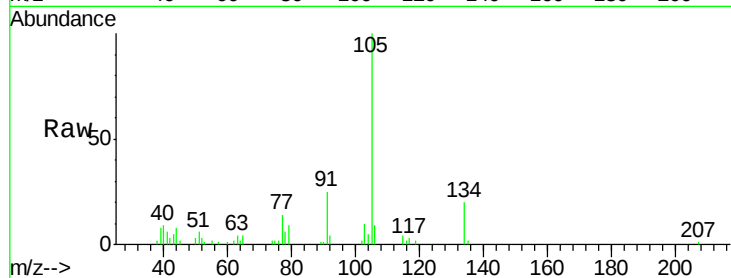
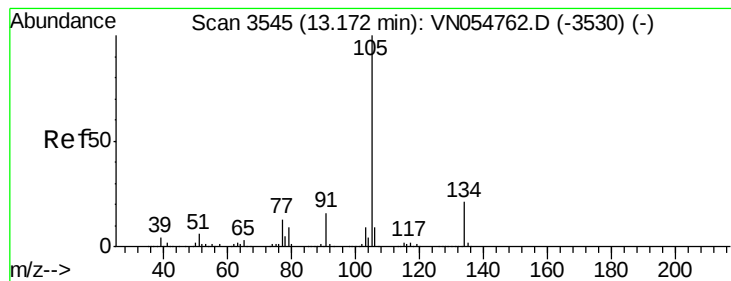


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#85

sec-Butylbenzene

Concen: 1.115 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA\_N

ClientSampleId :

MW-2R

Tot Ion:105 Resp: 19989

Ion Ratio Lower Upper

105 100

134 30.3 10.7 32.1

