

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\  
 Data File : VN054825.D  
 Acq On : 31 Mar 2019 2:11  
 Operator : JC/SP  
 Sample : K2164-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-3

Quant Time: Mar 31 05:05:45 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  | 506252   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 851645   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 702657   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 244715   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 348180   | 51.02 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.04% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 272823   | 48.05 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.10%  |      |
| 50) Toluene-d8              | 10.09  | 98  | 1002991  | 47.51 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.02%  |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 306559   | 43.67 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 87.34%  |      |

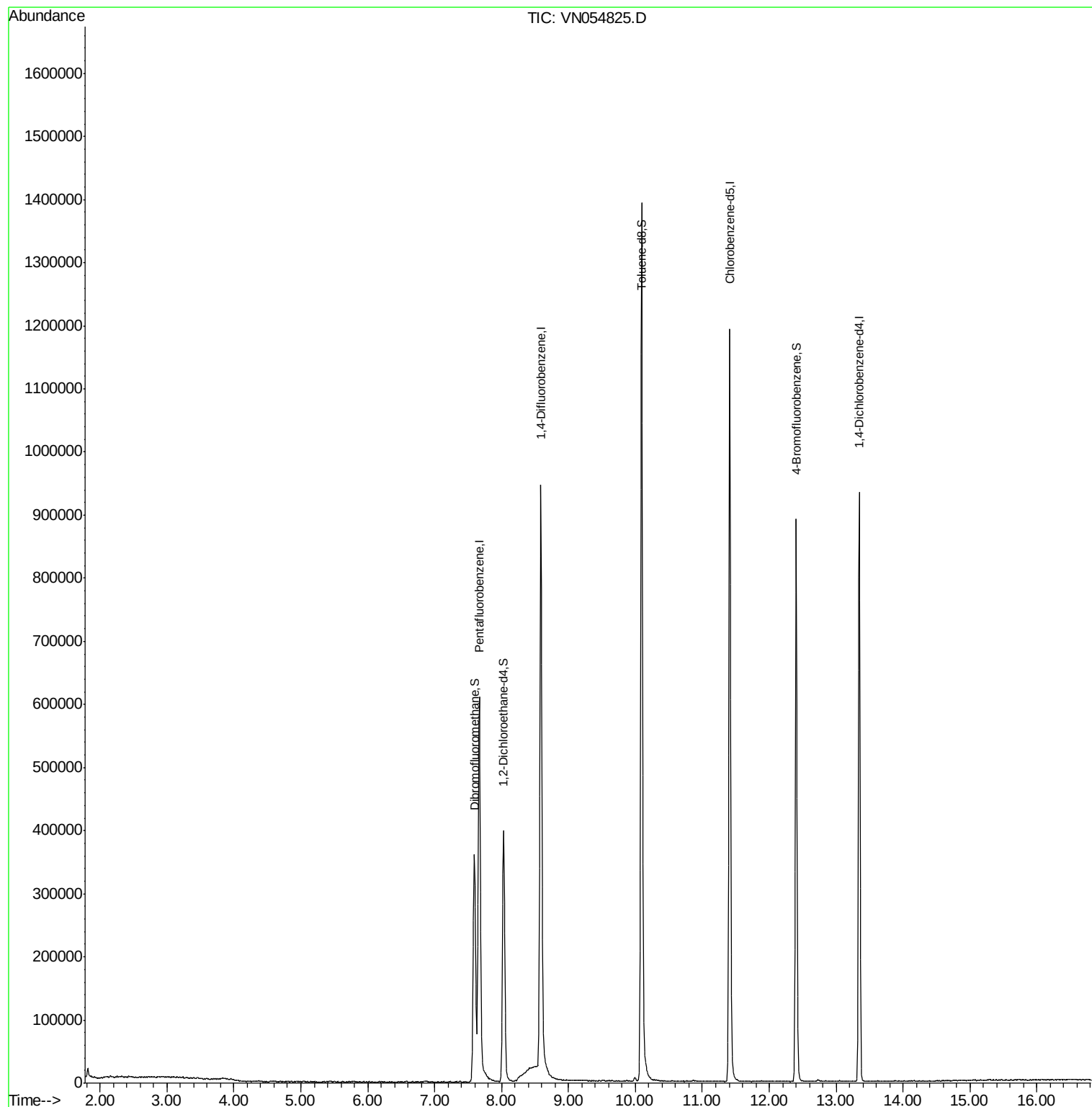
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

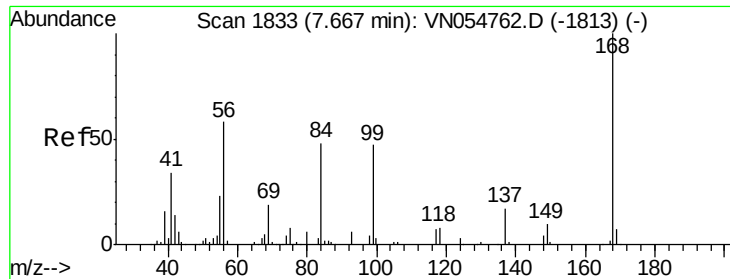
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN054825.D

Acq: 31 Mar 2019 2:11

Instrument :

MSVOA\_N

ClientSampled :

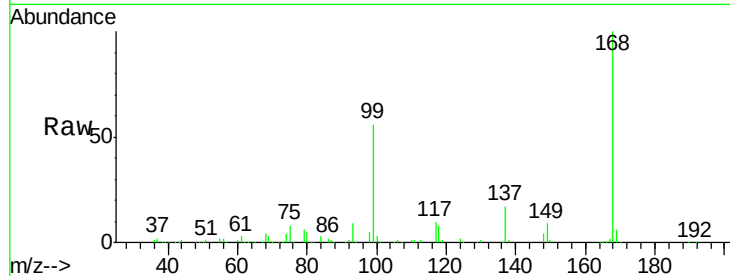
MW-3

Tot Ion:168 Resp: 506252

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

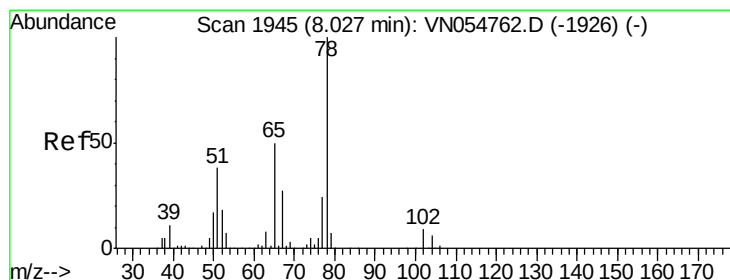
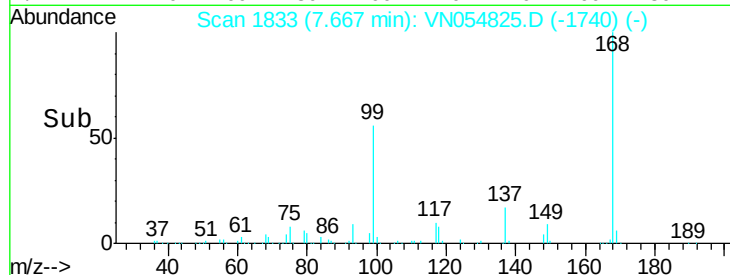
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.020 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN054825.D

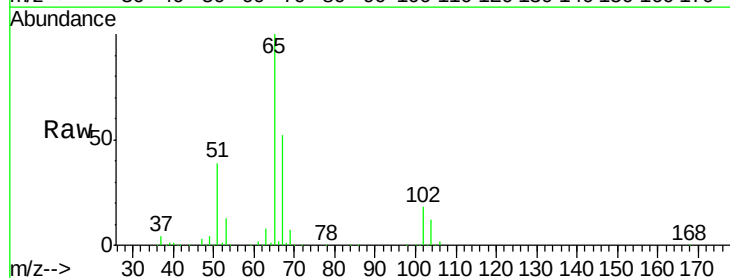
Acq: 31 Mar 2019 2:11

Tgt Ion: 65 Resp: 348180

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

8.03

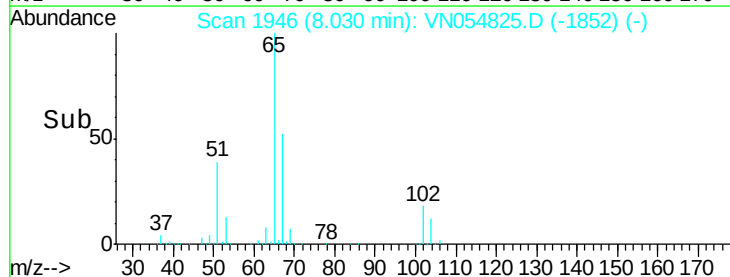
150000

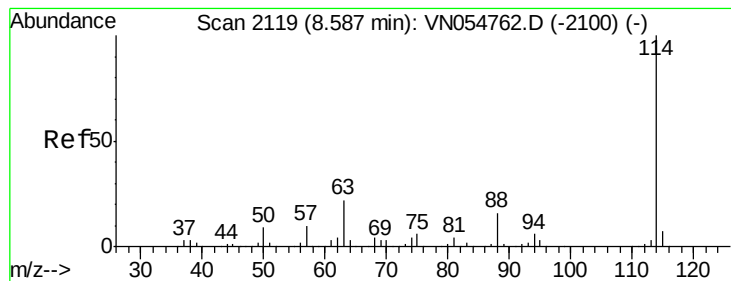
100000

50000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054825.D

Acq: 31 Mar 2019 2:11

Instrument :

MSVOA\_N

ClientSampleId :

MW-3

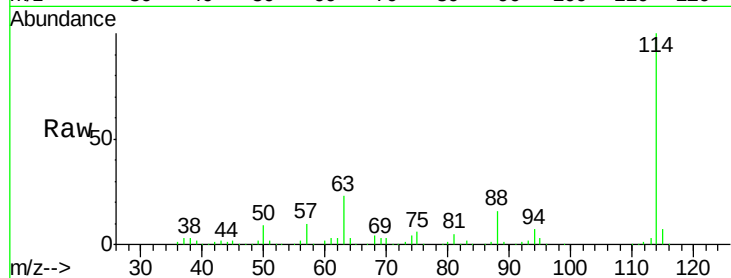
Tot Ion:114 Resp: 851645

Ion Ratio Lower Upper

114 100

63 22.8 0.0 35.2

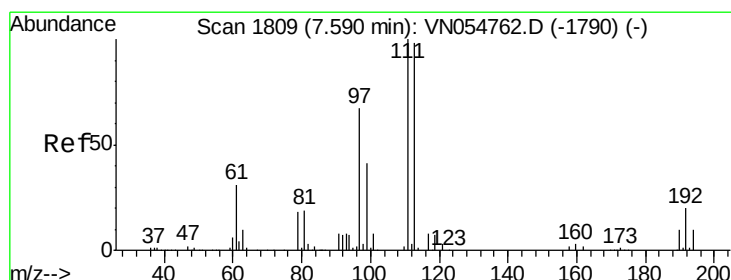
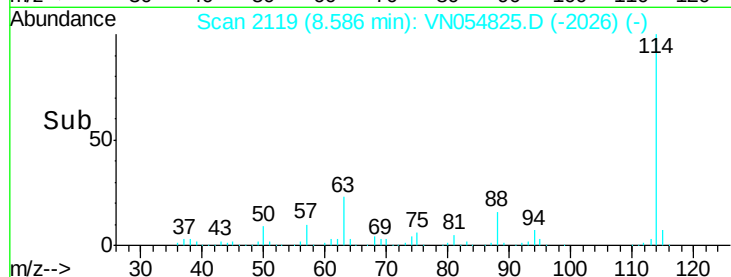
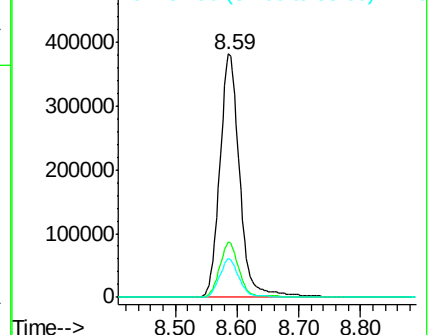
88 15.7 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.051 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054825.D

Acq: 31 Mar 2019 2:11

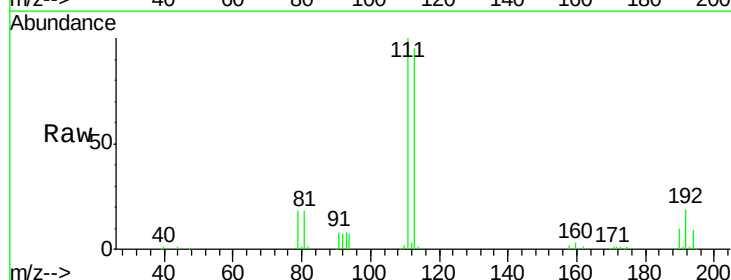
Tgt Ion:113 Resp: 272823

Ion Ratio Lower Upper

113 100

111 101.6 82.2 123.4

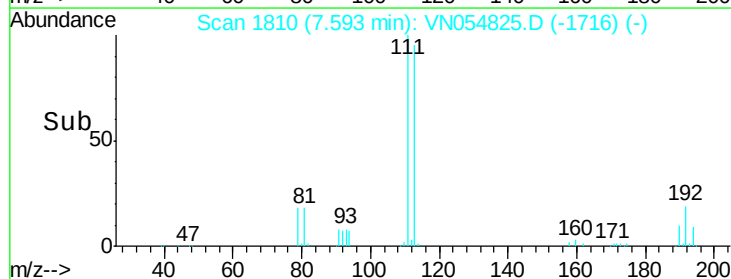
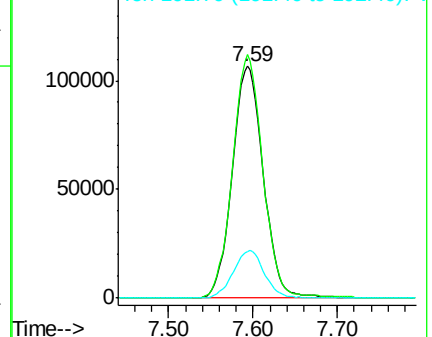
192 20.6 19.2 28.8

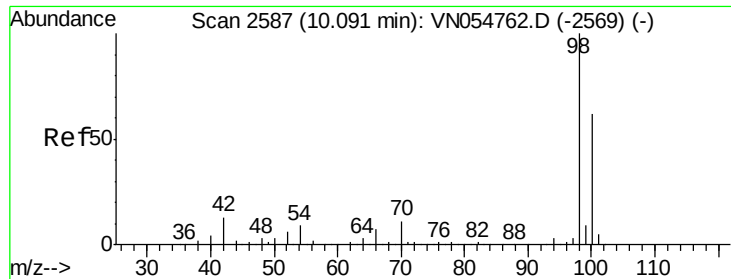


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

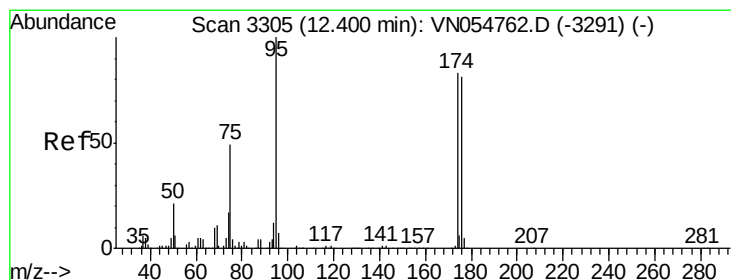
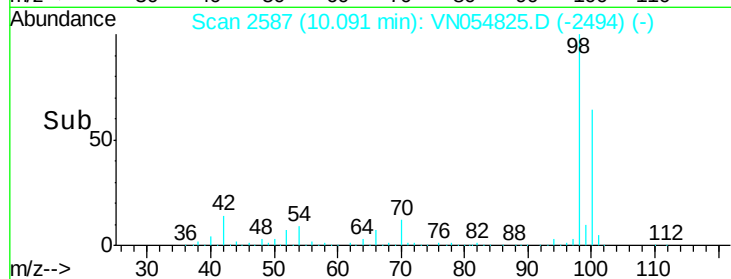
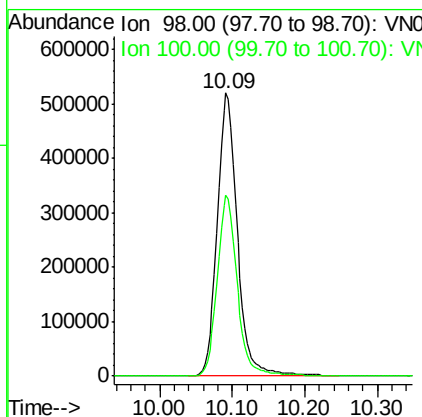
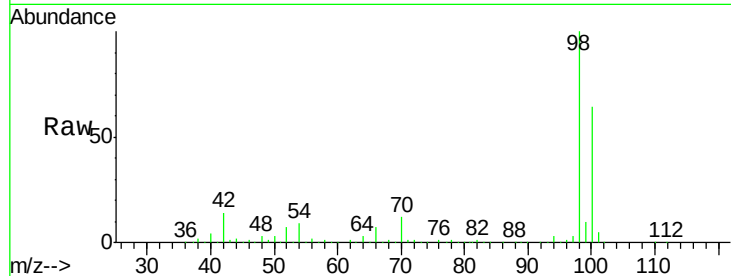




#50  
Toluene-d8  
Concen: 47.515 ug/l  
RT: 10.09 min Scan# 2587  
Delta R.T. -0.00 min  
Lab File: VN054825.D  
Acq: 31 Mar 2019 2:11

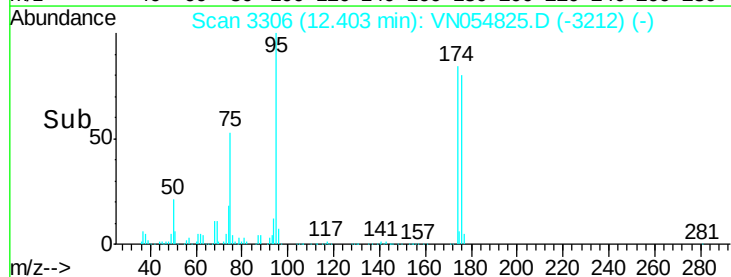
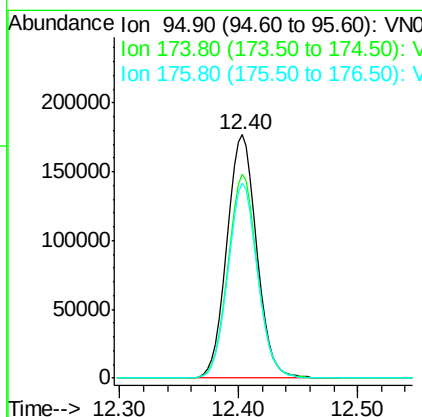
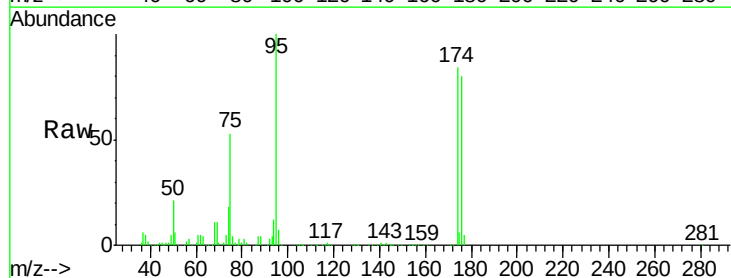
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-3

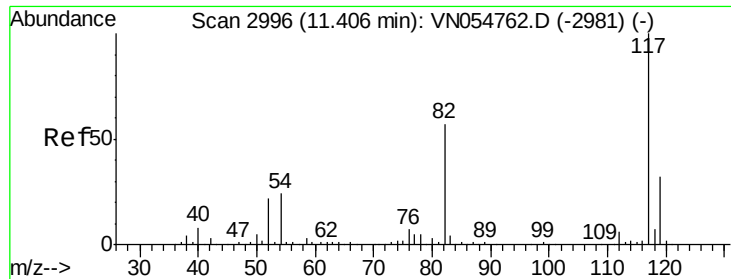
Tot Ion: 98 Resp: 1002991  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.2 76.8



#62  
4-Bromofluorobenzene  
Concen: 43.667 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN054825.D  
Acq: 31 Mar 2019 2:11

Tgt Ion: 95 Resp: 306559  
Ion Ratio Lower Upper  
95 100  
174 82.9 0.0 191.0  
176 79.5 0.0 187.4

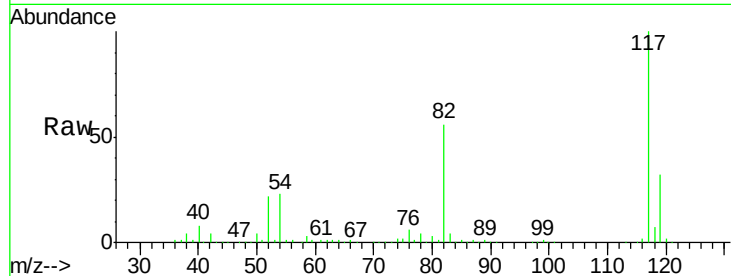




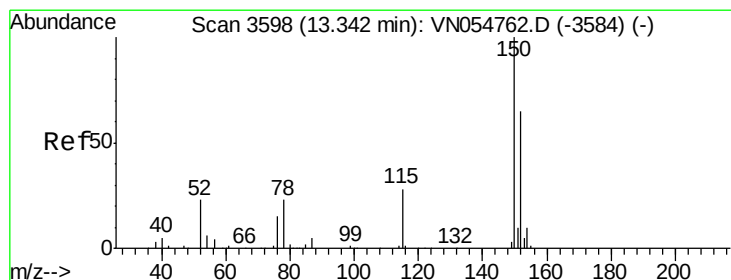
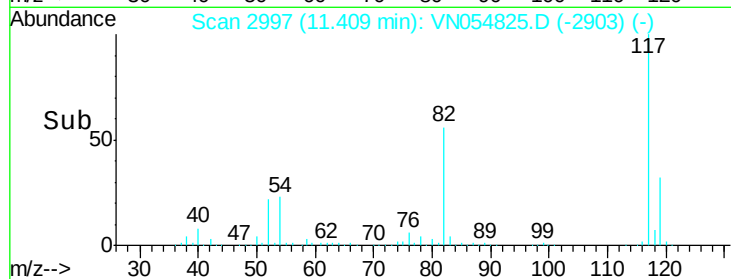
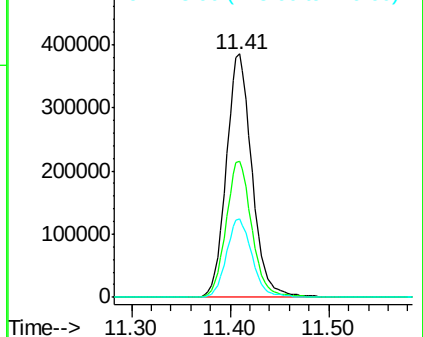
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN054825.D  
Acq: 31 Mar 2019 2:11

Instrument :  
MSVOA\_N  
ClientSampled :  
MW-3

Tot Ion:117 Resp: 702657  
Ion Ratio Lower Upper  
117 100  
82 56.0 40.0 60.0  
119 32.0 25.8 38.6

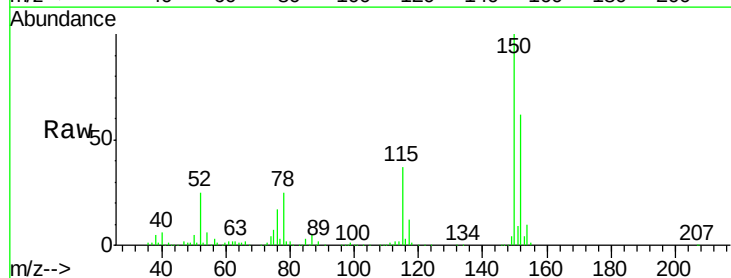


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN054825.D  
Acq: 31 Mar 2019 2:11

Tgt Ion:152 Resp: 244715  
Ion Ratio Lower Upper  
152 100  
115 59.7 27.2 81.6  
150 159.3 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

