

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN111518\  
 Data File : VN052344.D  
 Acq On : 15 Nov 2018 16:13  
 Operator : MD\SY  
 Sample : J5957-01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 W-1

Quant Time: Nov 16 16:11:54 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N111418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 15 03:02:37 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 303661   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 511956   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 429020   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 145815   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 209392   | 48.82 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.64% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 161320   | 48.85 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.70% |      |
| 50) Toluene-d8              | 10.09  | 98  | 633395   | 48.76 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.52% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 179958   | 42.11 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 84.22% |      |

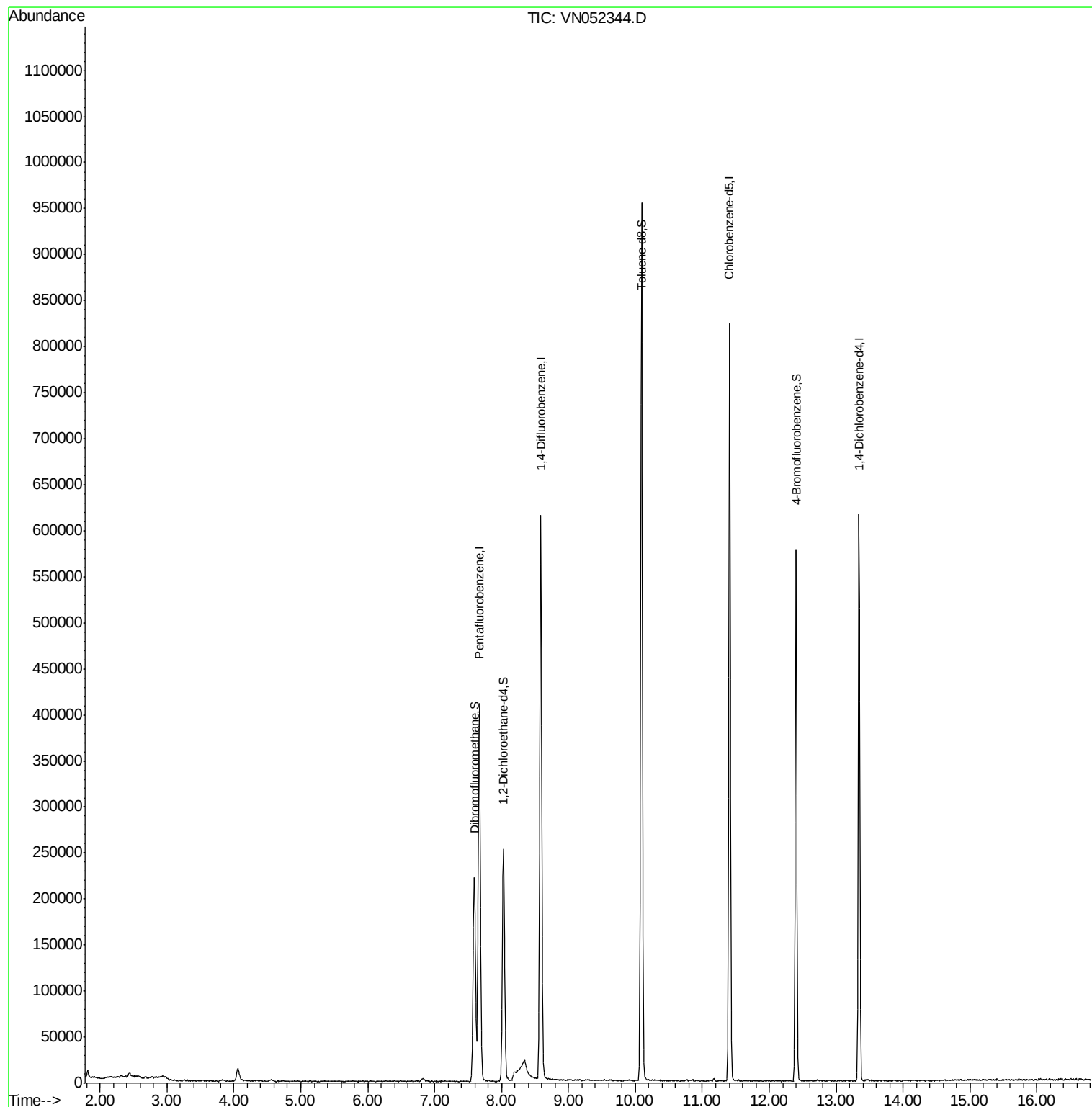
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

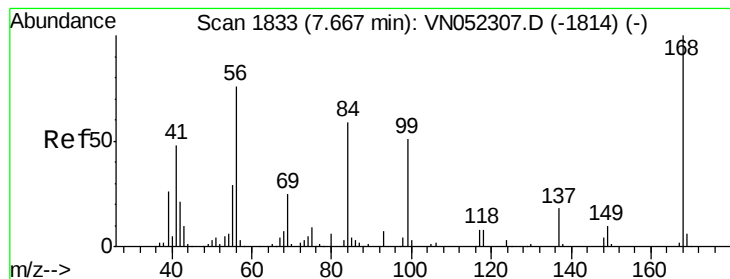
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN111518\  
Data File : VN052344.D  
Acq On : 15 Nov 2018 16:13  
Operator : MD\SY  
Sample : J5957-01  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 16 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
W-1

Quant Time: Nov 16 16:11:54 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N111418W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 15 03:02:37 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: VN052344.D

Acq: 15 Nov 2018 16:13

Instrument :

MSVOA\_N

ClientSampled :

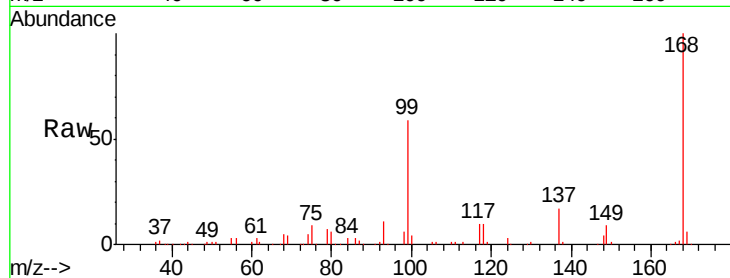
W-1

Tgt Ion:168 Resp: 303661

Ion Ratio Lower Upper

168 100

99 59.4 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

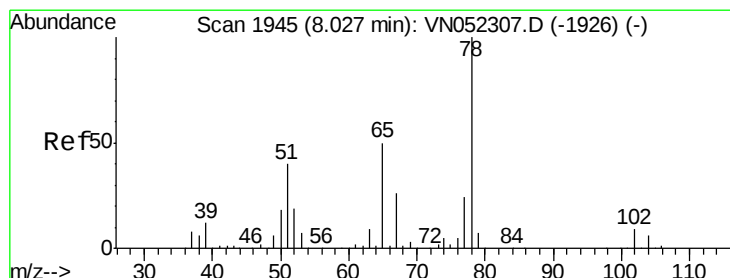
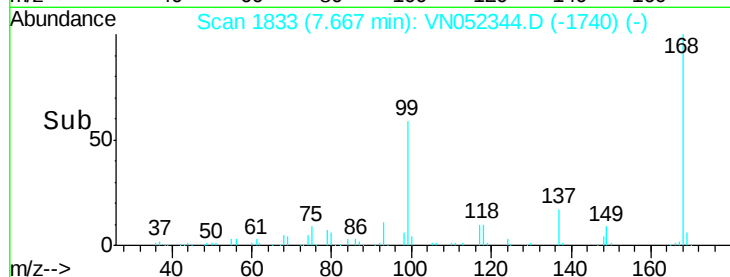
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052344.D

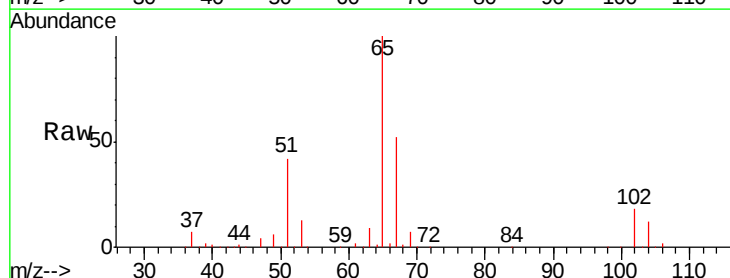
Acq: 15 Nov 2018 16:13

Tgt Ion: 65 Resp: 209392

Ion Ratio Lower Upper

65 100

67 51.9 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN

Ion 66.90 (66.60 to 67.60): VN

8.03

100000

80000

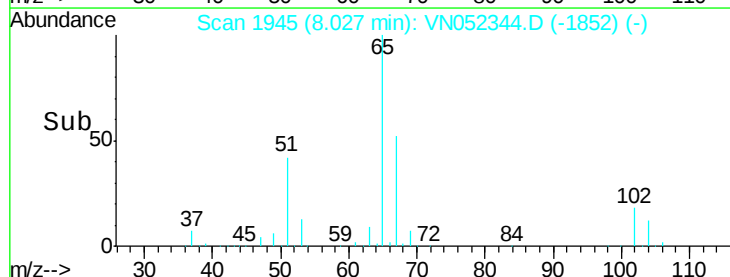
60000

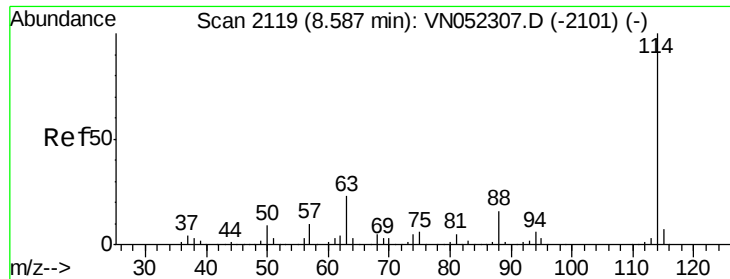
40000

20000

0

Time-->

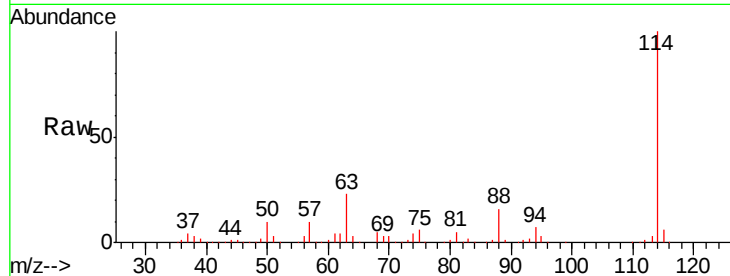




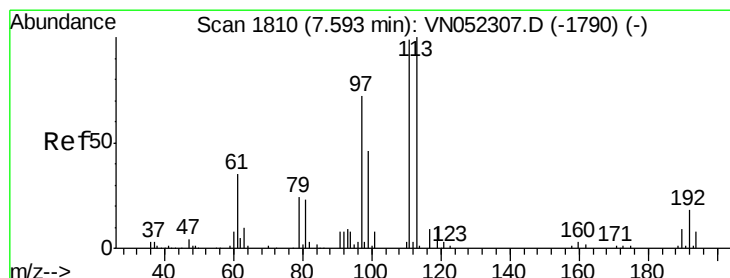
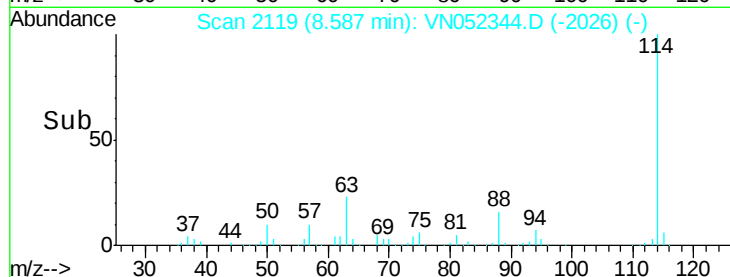
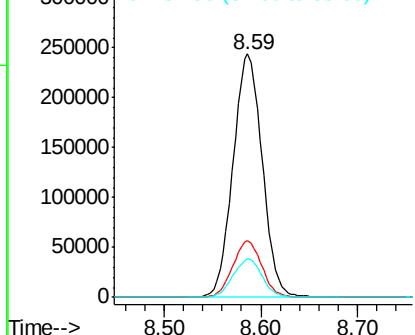
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN052344.D  
 Acq: 15 Nov 2018 16:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 W-1

Tgt Ion:114 Resp: 511956  
 Ion Ratio Lower Upper  
 114 100  
 63 23.3 0.0 45.4  
 88 15.9 0.0 31.2

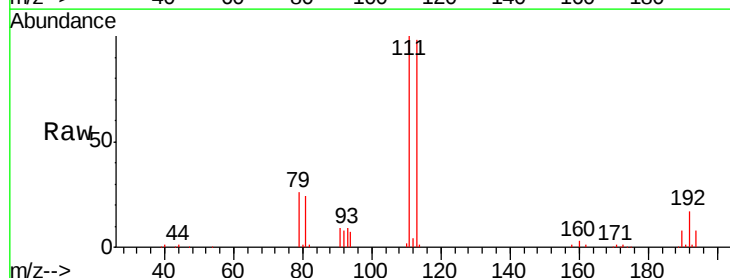


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

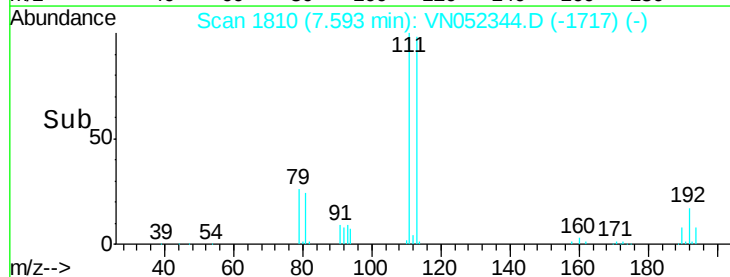
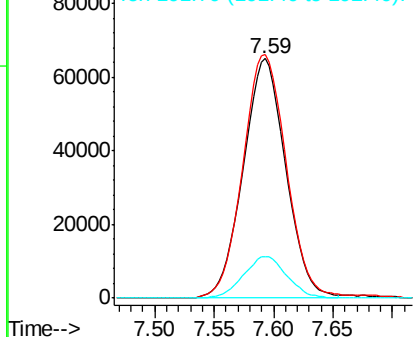


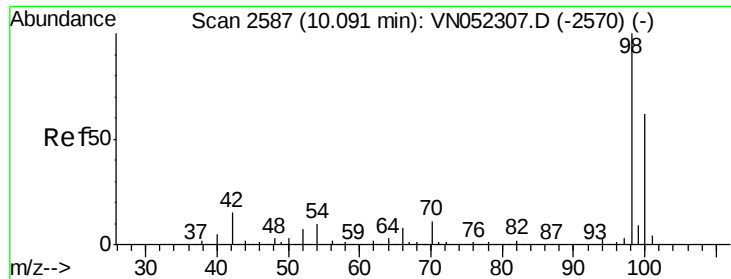
#35  
 Dibromofluoromethane  
 Concen: 50.00 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. -0.00 min  
 Lab File: VN052344.D  
 Acq: 15 Nov 2018 16:13

Tgt Ion:113 Resp: 161320  
 Ion Ratio Lower Upper  
 113 100  
 111 104.2 81.0 121.6  
 192 17.7 13.8 20.6



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: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052344.D

Acq: 15 Nov 2018 16:13

Instrument :

MSVOA\_N

ClientSampled :

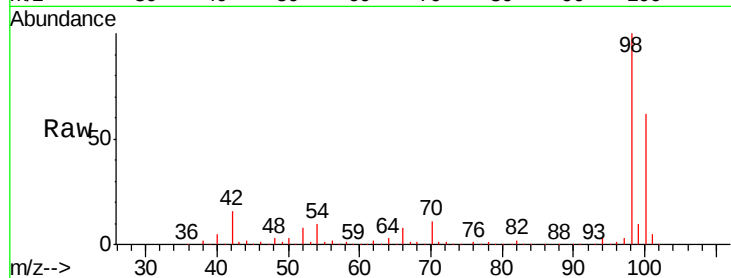
W-1

Tgt Ion: 98 Resp: 633395

Ion Ratio Lower Upper

98 100

100 62.2 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN052307.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052307.D (-2570) (-)

10.09

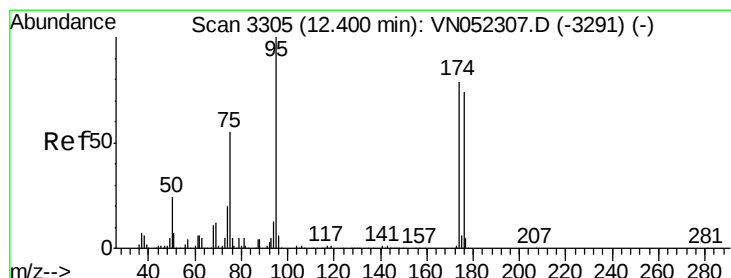
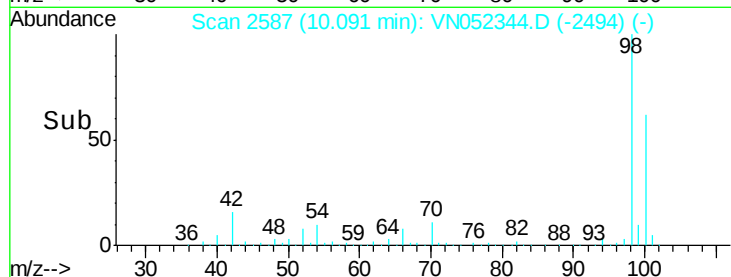
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052344.D

Acq: 15 Nov 2018 16:13

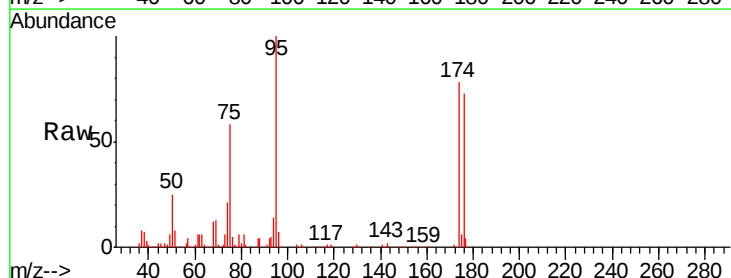
Tgt Ion: 95 Resp: 179958

Ion Ratio Lower Upper

95 100

174 78.4 0.0 156.0

176 73.9 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052307.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052307.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052307.D (-3291) (-)

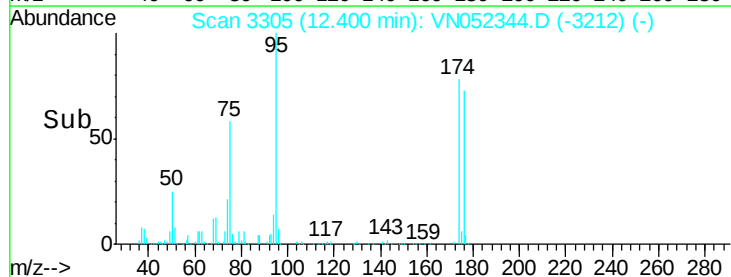
12.40

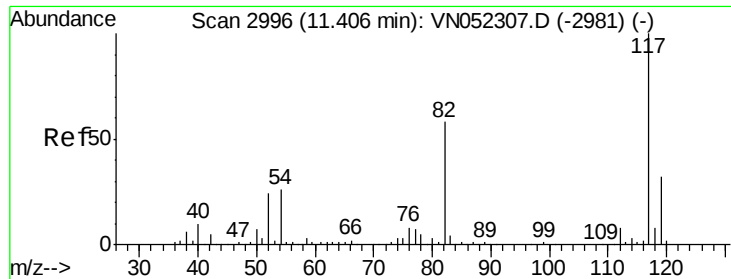
100000

50000

0

Time-->

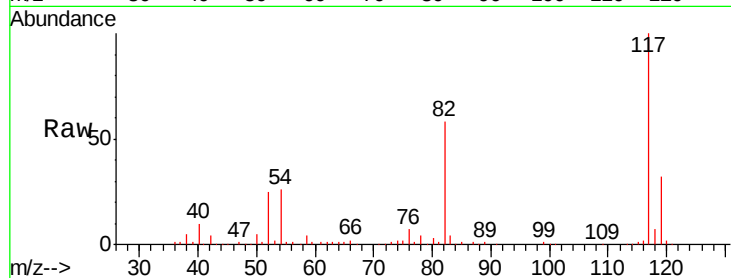




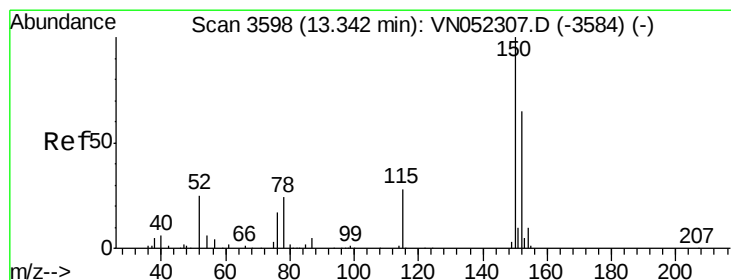
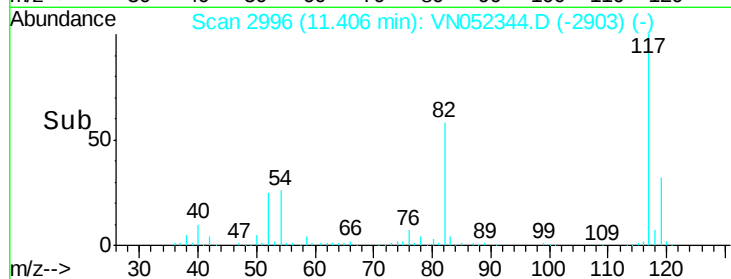
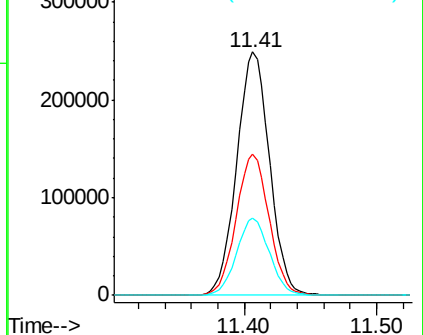
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN052344.D  
Acq: 15 Nov 2018 16:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
W-1

Tgt Ion:117 Resp: 429020  
Ion Ratio Lower Upper  
117 100  
82 57.8 46.5 69.7  
119 31.7 25.7 38.5

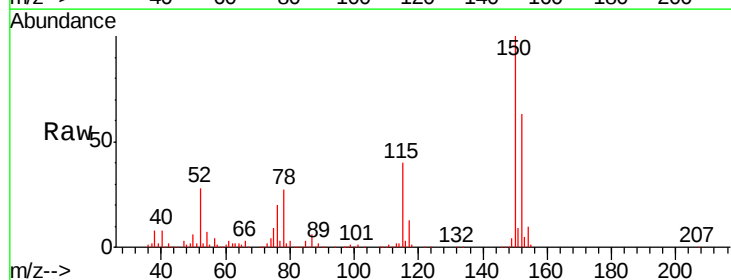


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. -0.00 min  
Lab File: VN052344.D  
Acq: 15 Nov 2018 16:13

Tgt Ion:152 Resp: 145815  
Ion Ratio Lower Upper  
152 100  
115 62.7 30.3 91.0  
150 158.4 0.0 348.2



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

