

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030219\  
 Data File : VN054033.D  
 Acq On : 1 Mar 2019 17:02  
 Operator : JC/SP  
 Sample : VN0302WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0302WBL01

Quant Time: Mar 02 05:16:06 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N022519W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 28 04:05:45 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 550300   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 999697   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 954122   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 327718   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 357715   | 55.45 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 110.90% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 326045   | 50.44 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.88% |      |
| 50) Toluene-d8              | 10.09  | 98  | 1252809  | 52.06 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.12% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 409963   | 51.13 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.26% |      |

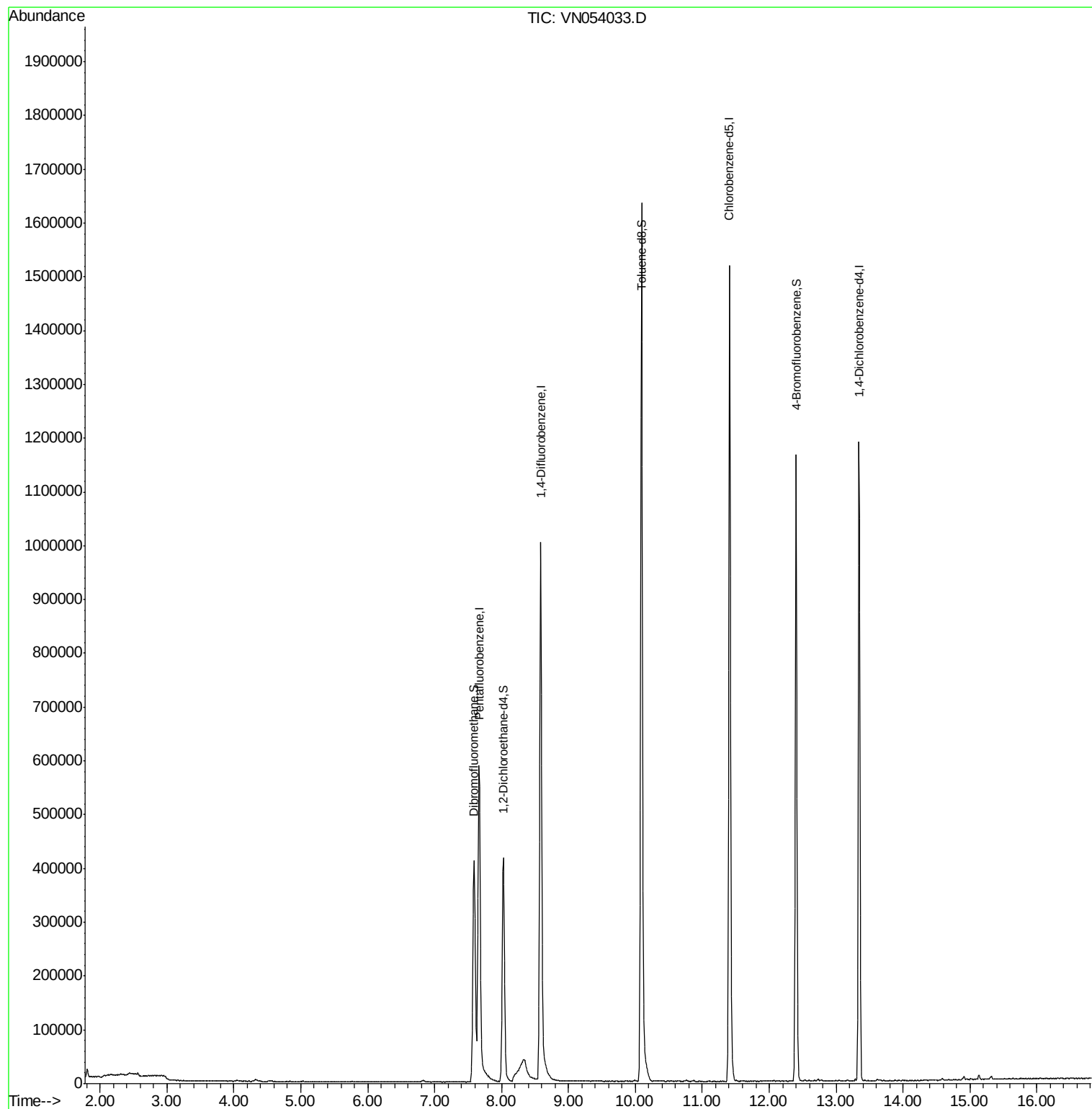
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

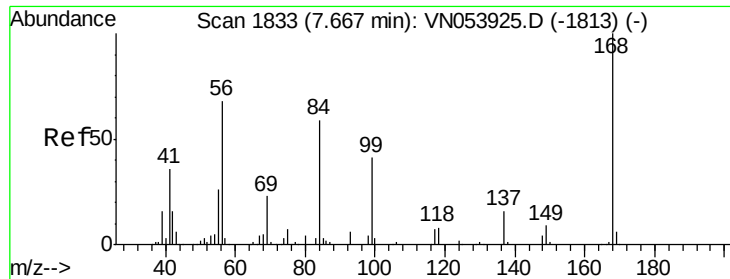
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0302WBL01

Quant Time: Mar 02 05:16:06 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N022519W.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 28 04:05:45 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054033.D

Acq: 1 Mar 2019 17:02

Instrument :

MSVOA\_N

ClientSampleId :

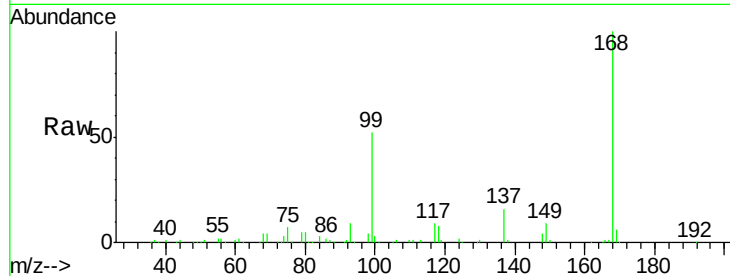
VN0302WBL01

Tot Ion:168 Resp: 550300

Ion Ratio Lower Upper

168 100

99 51.6 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

200000

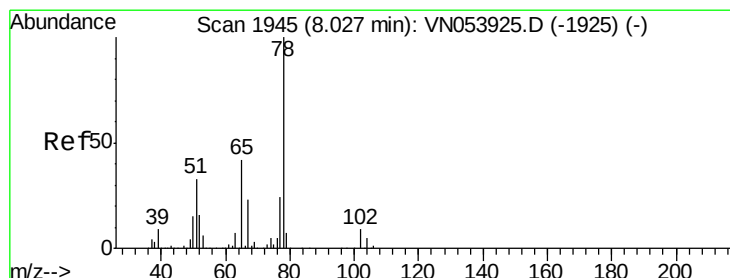
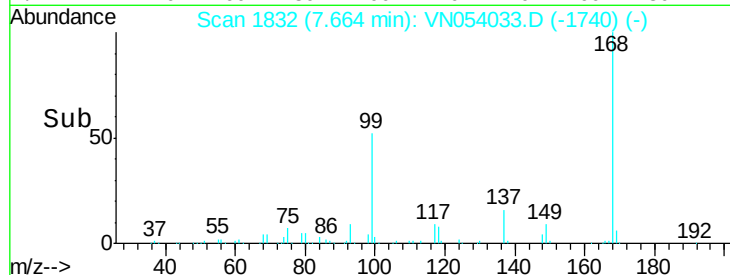
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#33

1,2-Dichloroethane-d4

Concen: 55.453 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054033.D

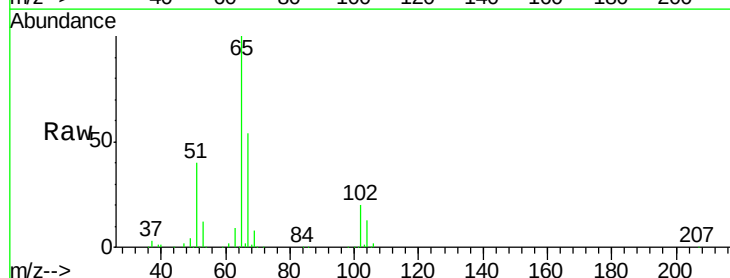
Acq: 1 Mar 2019 17:02

Tgt Ion: 65 Resp: 357715

Ion Ratio Lower Upper

65 100

67 54.6 0.0 111.8



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

8.03

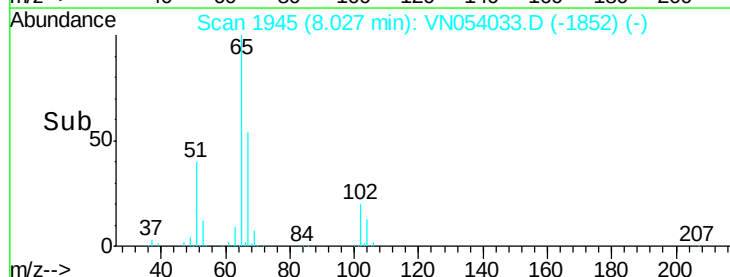
150000

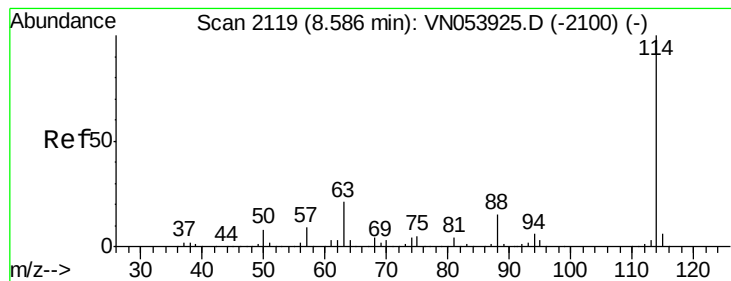
100000

50000

0

Time--> 7.90 8.00 8.10





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054033.D

Acq: 1 Mar 2019 17:02

Instrument :

MSVOA\_N

ClientSampleId :

VN0302WBL01

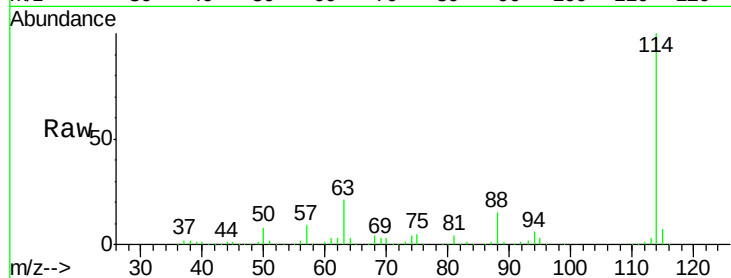
Tot Ion:114 Resp: 999697

Ion Ratio Lower Upper

114 100

63 20.7 0.0 37.4

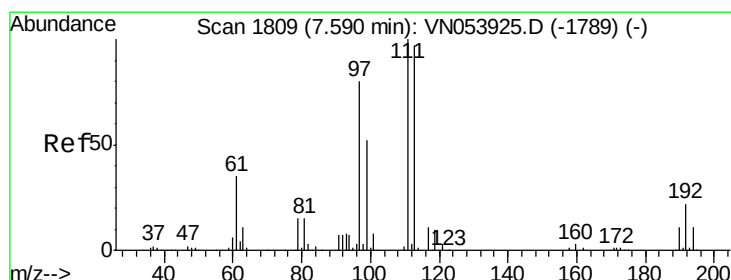
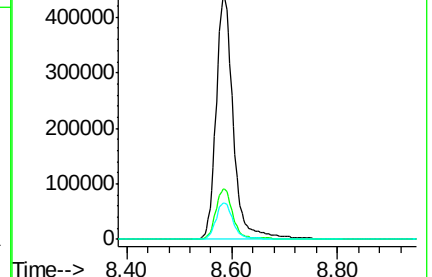
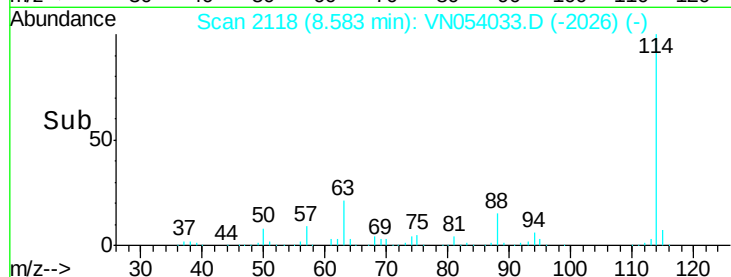
88 15.0 0.0 30.4



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: 50.435 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054033.D

Acq: 1 Mar 2019 17:02

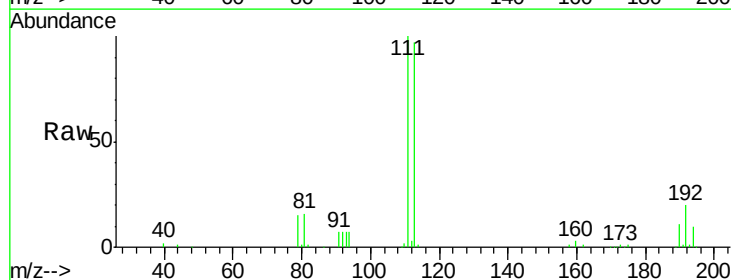
Tgt Ion:113 Resp: 326045

Ion Ratio Lower Upper

113 100

111 102.8 81.1 121.7

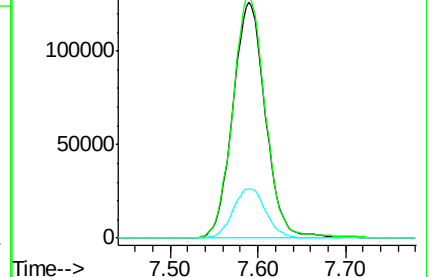
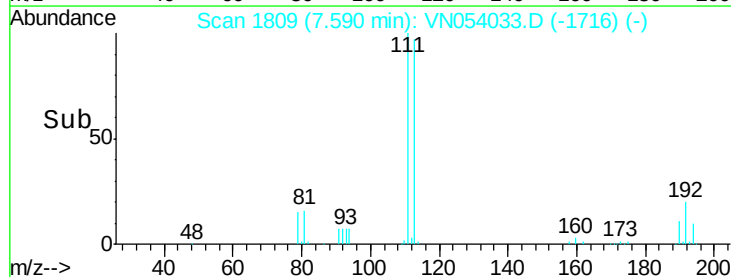
192 21.2 18.8 28.2

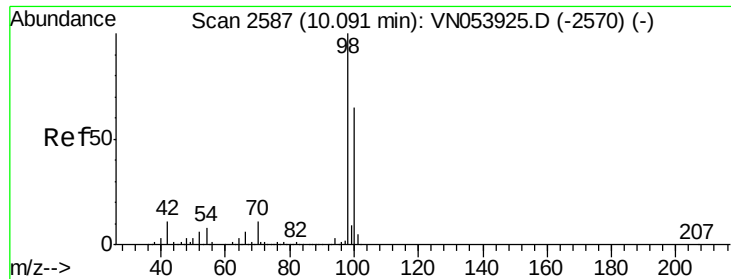


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 52.059 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054033.D

Acq: 1 Mar 2019 17:02

Instrument :

MSVOA\_N

ClientSampleId :

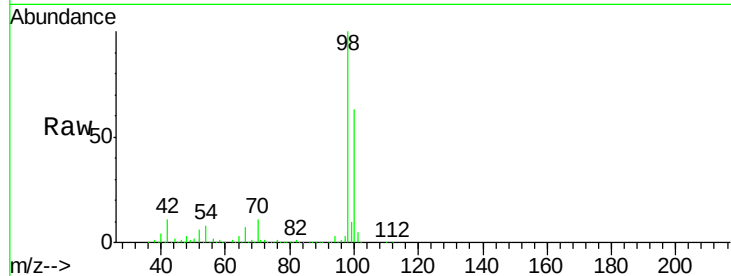
VN0302WBL01

Tot Ion: 98 Resp: 1252809

Ion Ratio Lower Upper

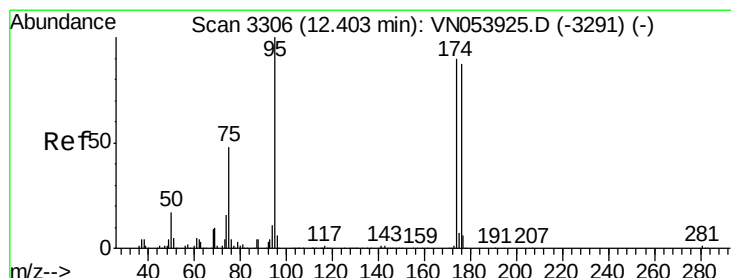
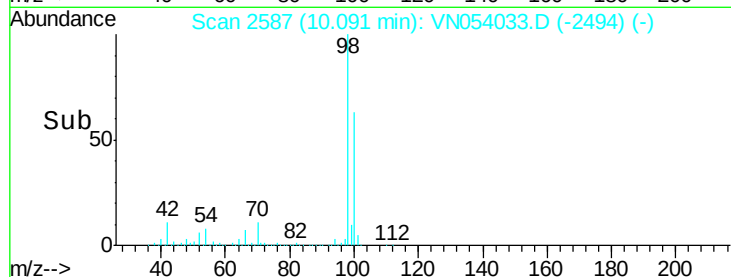
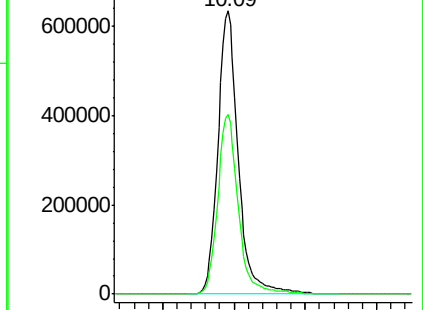
98 100

100 64.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN054033.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN054033.D (-2494) (-)



#62

4-Bromofluorobenzene

Concen: 51.132 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054033.D

Acq: 1 Mar 2019 17:02

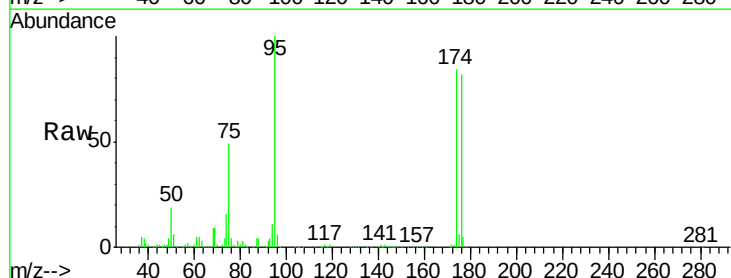
Tgt Ion: 95 Resp: 409963

Ion Ratio Lower Upper

95 100

174 86.2 0.0 188.8

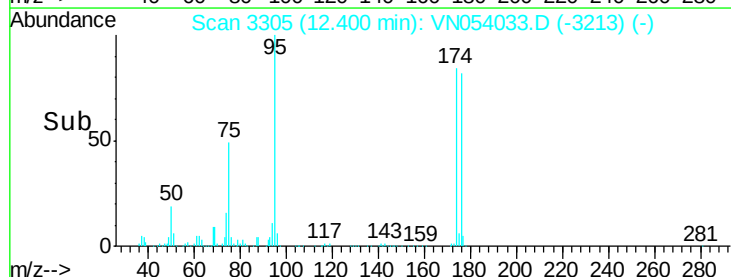
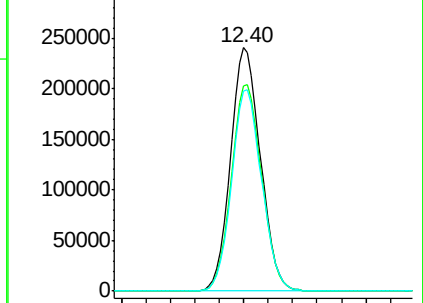
176 83.0 0.0 182.6

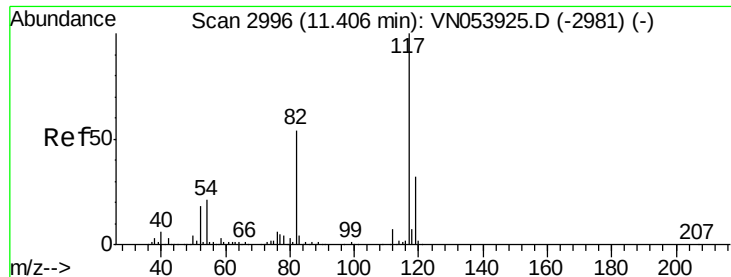


Abundance Ion 94.90 (94.60 to 95.60): VN054033.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN054033.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN054033.D (-3213) (-)

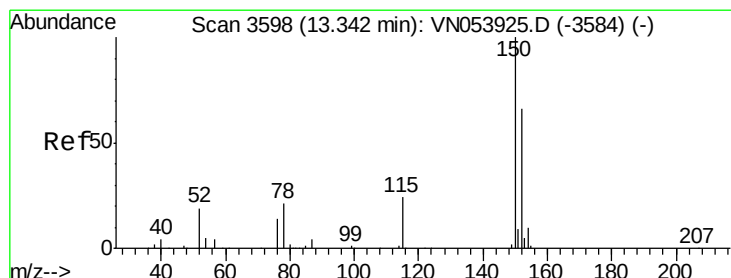
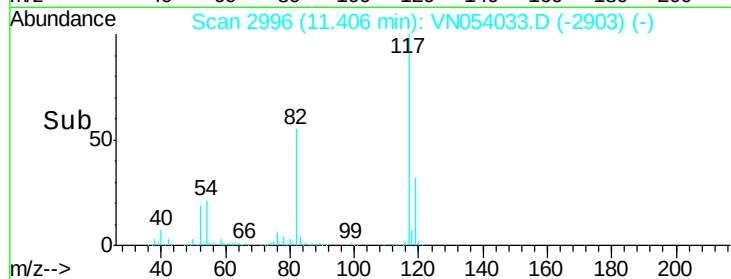
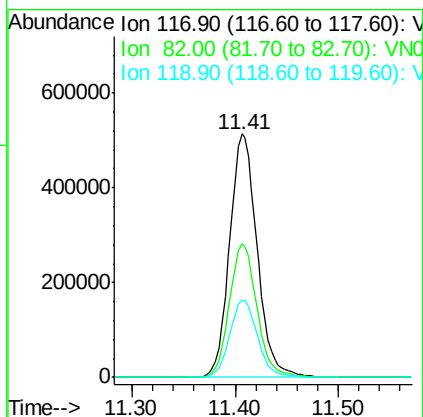
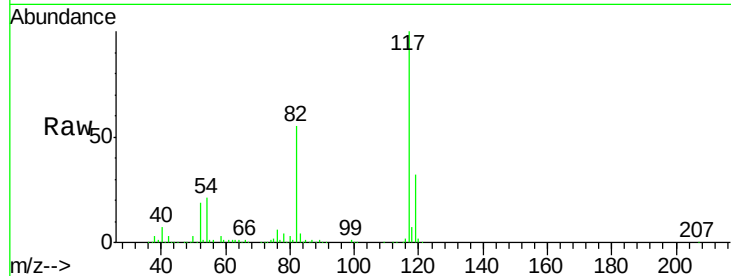




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN054033.D  
Acq: 1 Mar 2019 17:02

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0302WBL01

Tot Ion:117 Resp: 954122  
Ion Ratio Lower Upper  
117 100  
82 55.0 41.4 62.2  
119 32.0 25.3 37.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. 0.00 min  
Lab File: VN054033.D  
Acq: 1 Mar 2019 17:02

Tgt Ion:152 Resp: 327718  
Ion Ratio Lower Upper  
152 100  
115 57.1 27.2 81.6  
150 158.3 0.0 348.2

