

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112919\  
 Data File : VN059442.D  
 Acq On : 29 Nov 2019 12:55  
 Operator : JC/SP  
 Sample : K6024-11  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 B-2-(0.5-1.0)

Quant Time: Nov 29 23:20:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112719W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 27 16:56:05 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 345154   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 522659   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 453690   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 168999   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 194296   | 48.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.12%  |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 160548   | 50.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.86% |          |
| 50) Toluene-d8              | 10.08 | 98   | 629062   | 49.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.18%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 198944   | 45.04 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.08%  |          |

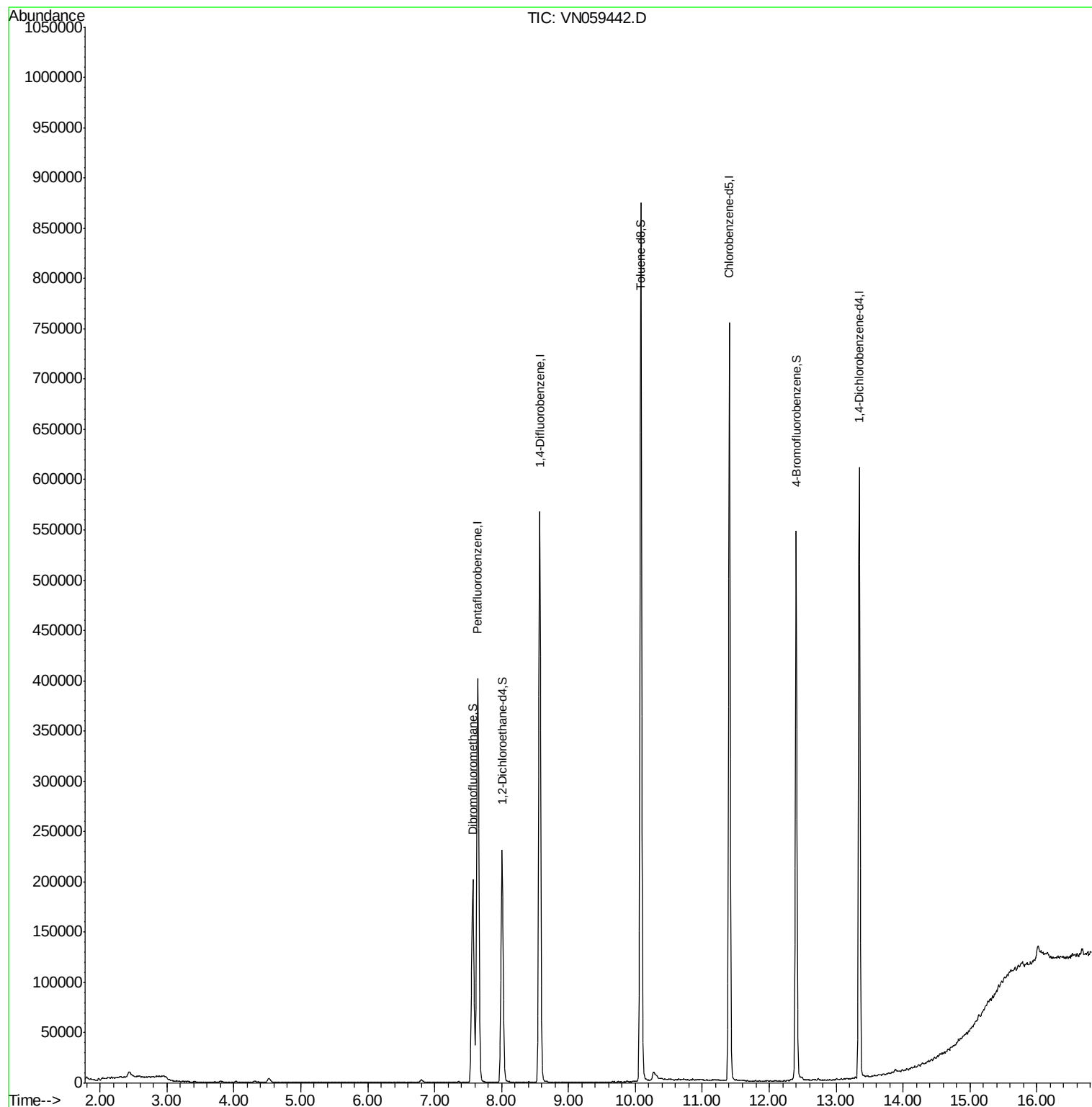
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

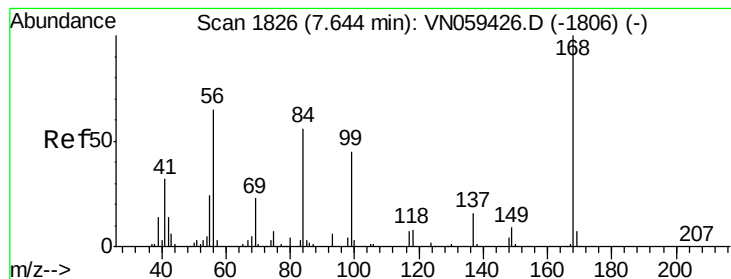
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Nov 27 16:56:05 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059442.D

Acq: 29 Nov 2019 12:55

Instrument :

MSVOA\_N

ClientSampleId :

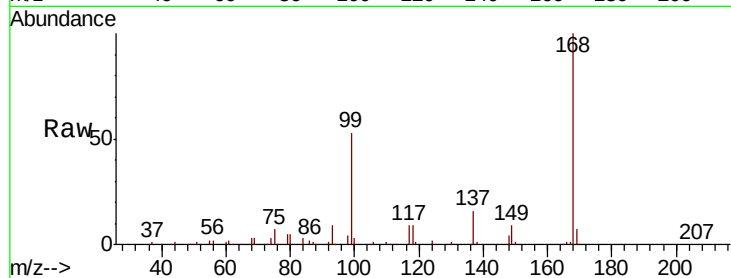
B-2-(0.5-1.0)

Tot Ion:168 Resp: 345154

Ion Ratio Lower Upper

168 100

99 52.7 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

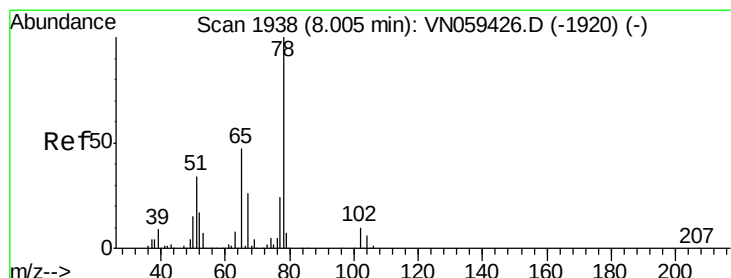
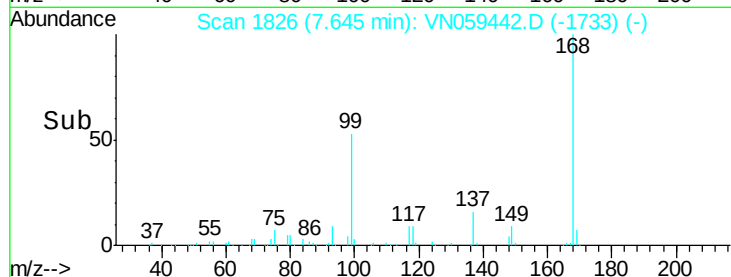
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#33

1,2-Dichloroethane-d4

Concen: 48.056 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059442.D

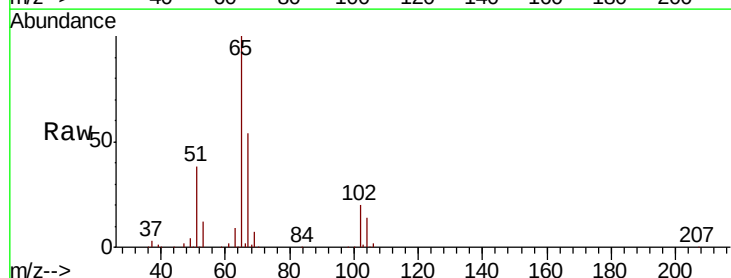
Acq: 29 Nov 2019 12:55

Tgt Ion: 65 Resp: 194296

Ion Ratio Lower Upper

65 100

67 54.3 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN

Ion 66.90 (66.60 to 67.60): VN

8.01

100000

80000

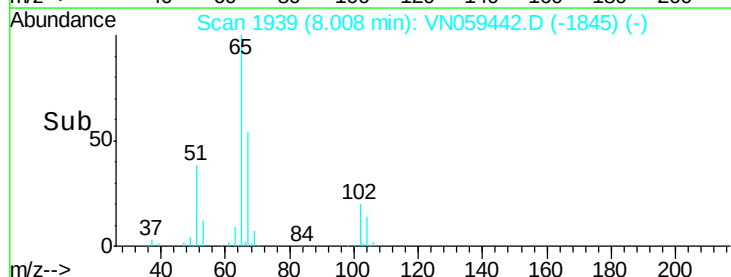
60000

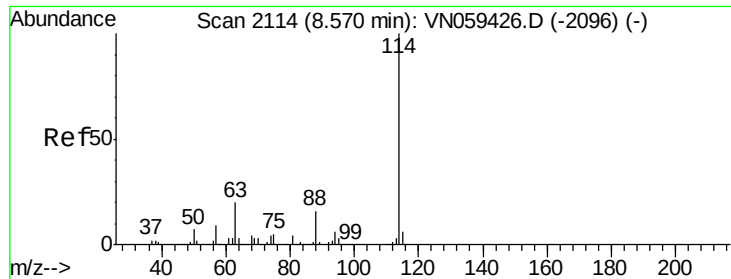
40000

20000

0

Time--> 7.90 8.00 8.10

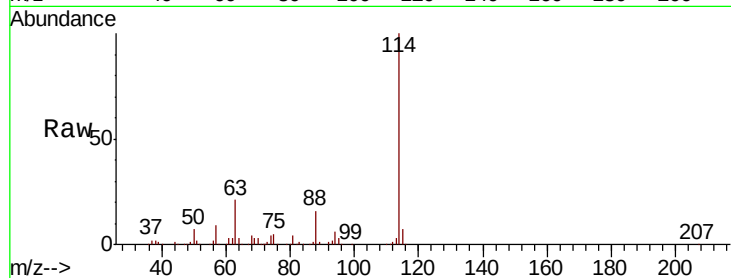




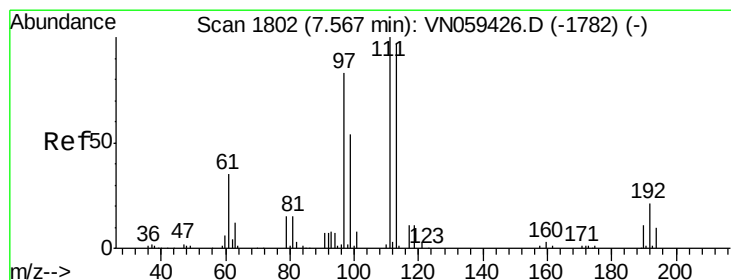
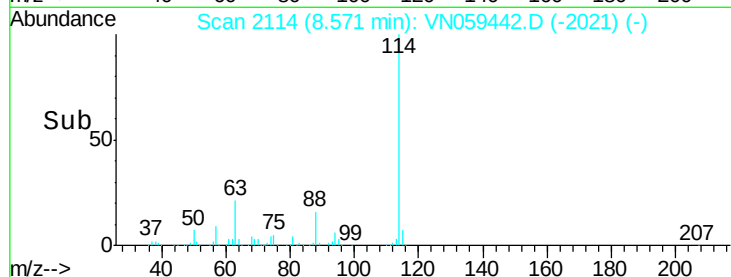
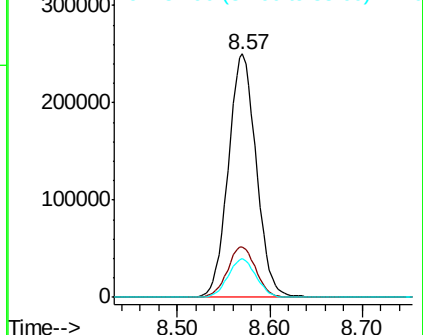
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2114  
 Delta R.T. 0.00 min  
 Lab File: VN059442.D  
 Acq: 29 Nov 2019 12:55

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 B-2-(0.5-1.0)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.8  | 0.0   | 40.4  |
| 88      | 15.8  | 0.0   | 32.2  |

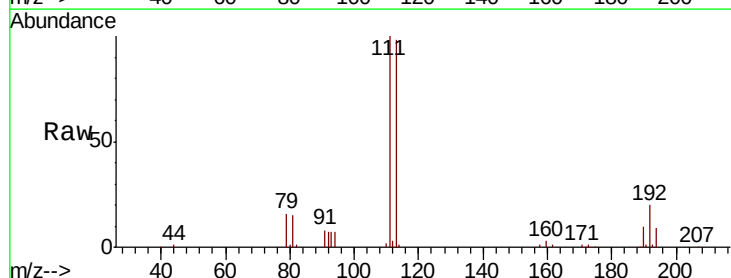


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

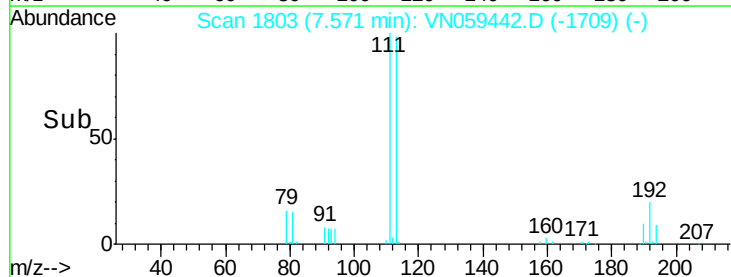
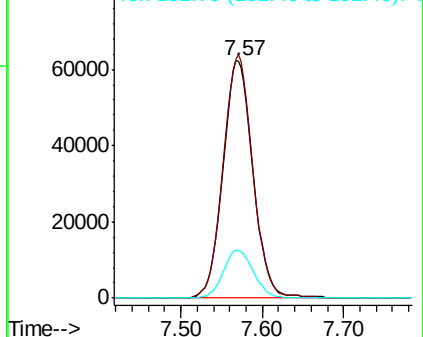


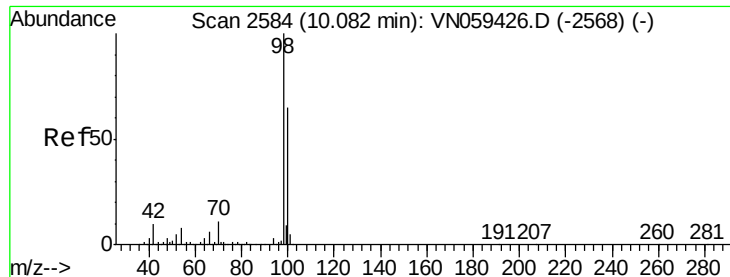
#35  
 Dibromofluoromethane  
 Concen: 50.430 ug/l  
 RT: 7.57 min Scan# 1803  
 Delta R.T. 0.00 min  
 Lab File: VN059442.D  
 Acq: 29 Nov 2019 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.4 | 81.9  | 122.9 |
| 192     | 20.3  | 16.6  | 24.8  |



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: 49.590 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059442.D

Acq: 29 Nov 2019 12:55

Instrument :

MSVOA\_N

ClientSampleId :

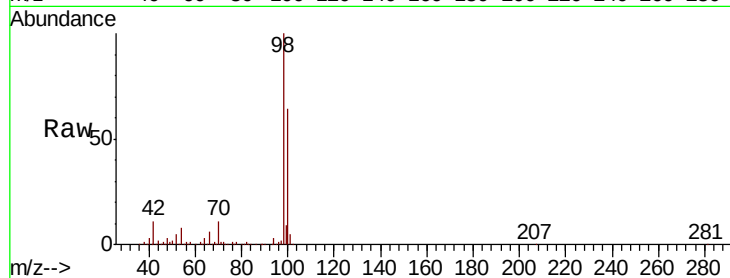
B-2-(0.5-1.0)

Tot Ion: 98 Resp: 629062

Ion Ratio Lower Upper

98 100

100 64.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

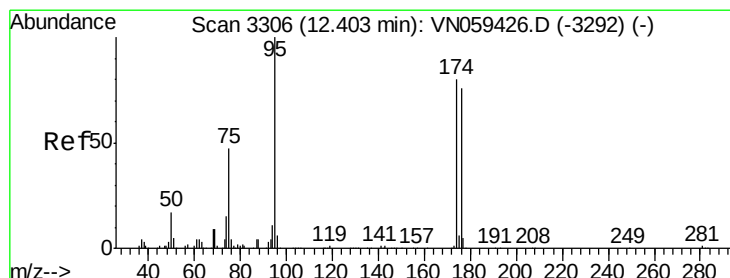
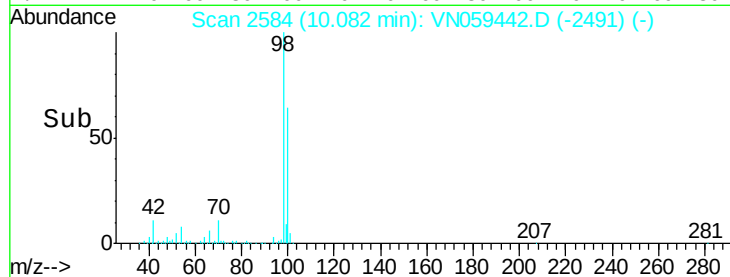
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.043 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059442.D

Acq: 29 Nov 2019 12:55

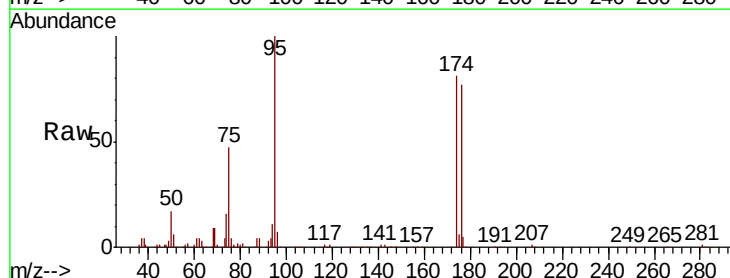
Tgt Ion: 95 Resp: 198944

Ion Ratio Lower Upper

95 100

174 80.5 0.0 158.0

176 77.0 0.0 153.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

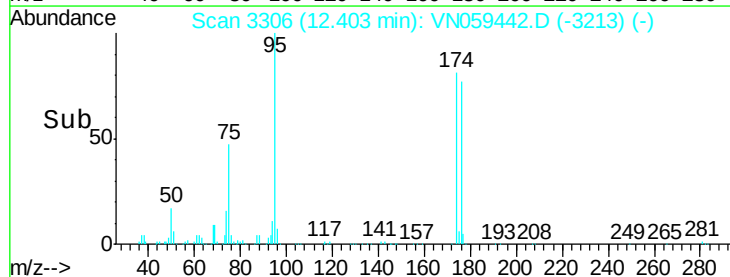
150000

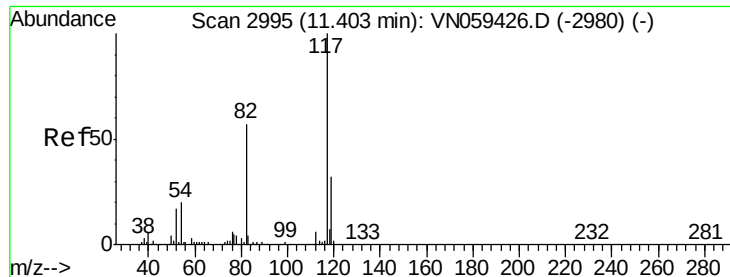
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059442.D

Acq: 29 Nov 2019 12:55

Instrument :

MSVOA\_N

ClientSampled :

B-2-(0.5-1.0)

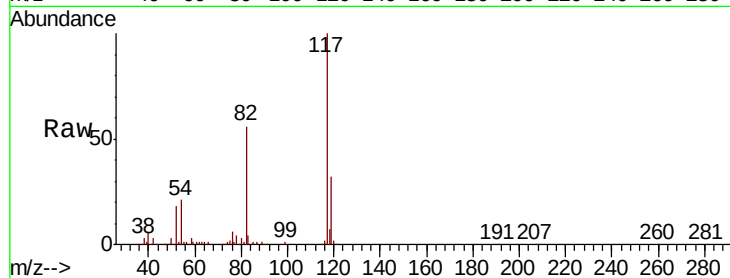
Tot Ion:117 Resp: 453690

Ion Ratio Lower Upper

117 100

82 56.2 45.4 68.0

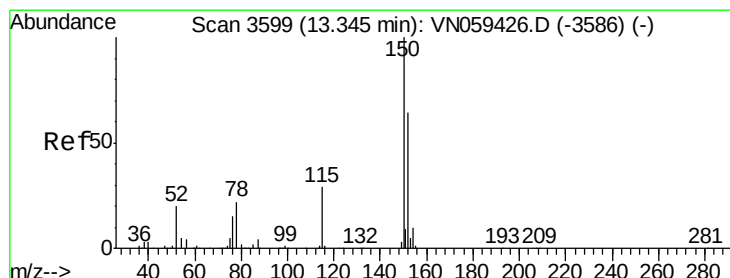
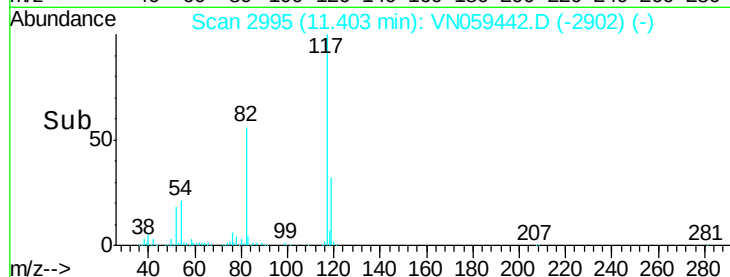
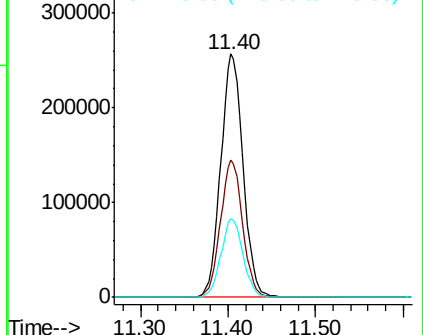
119 32.3 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

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: VN059442.D

Acq: 29 Nov 2019 12:55

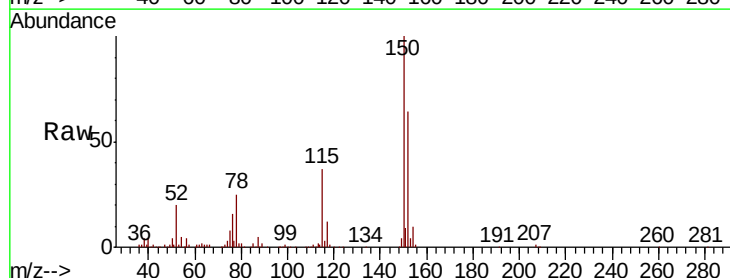
Tgt Ion:152 Resp: 168999

Ion Ratio Lower Upper

152 100

115 59.1 29.5 88.6

150 158.0 0.0 347.2



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

