

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092519\  
 Data File : VN058353.D  
 Acq On : 25 Sep 2019 10:02  
 Operator : JC/SP  
 Sample : K5002-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 S49-0514

Quant Time: Sep 26 05:51:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 473759   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 779489   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 658828   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 259907   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.01   | 65  | 348028   | 52.74 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.48% |      |
| 35) Dibromofluoromethane    | 7.57   | 113 | 244132   | 51.52 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.04% |      |
| 50) Toluene-d8              | 10.09  | 98  | 969379   | 52.50 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.00% |      |
| 62) 4-Bromofluorobenzene    | 12.41  | 95  | 312702   | 45.60 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.20%  |      |

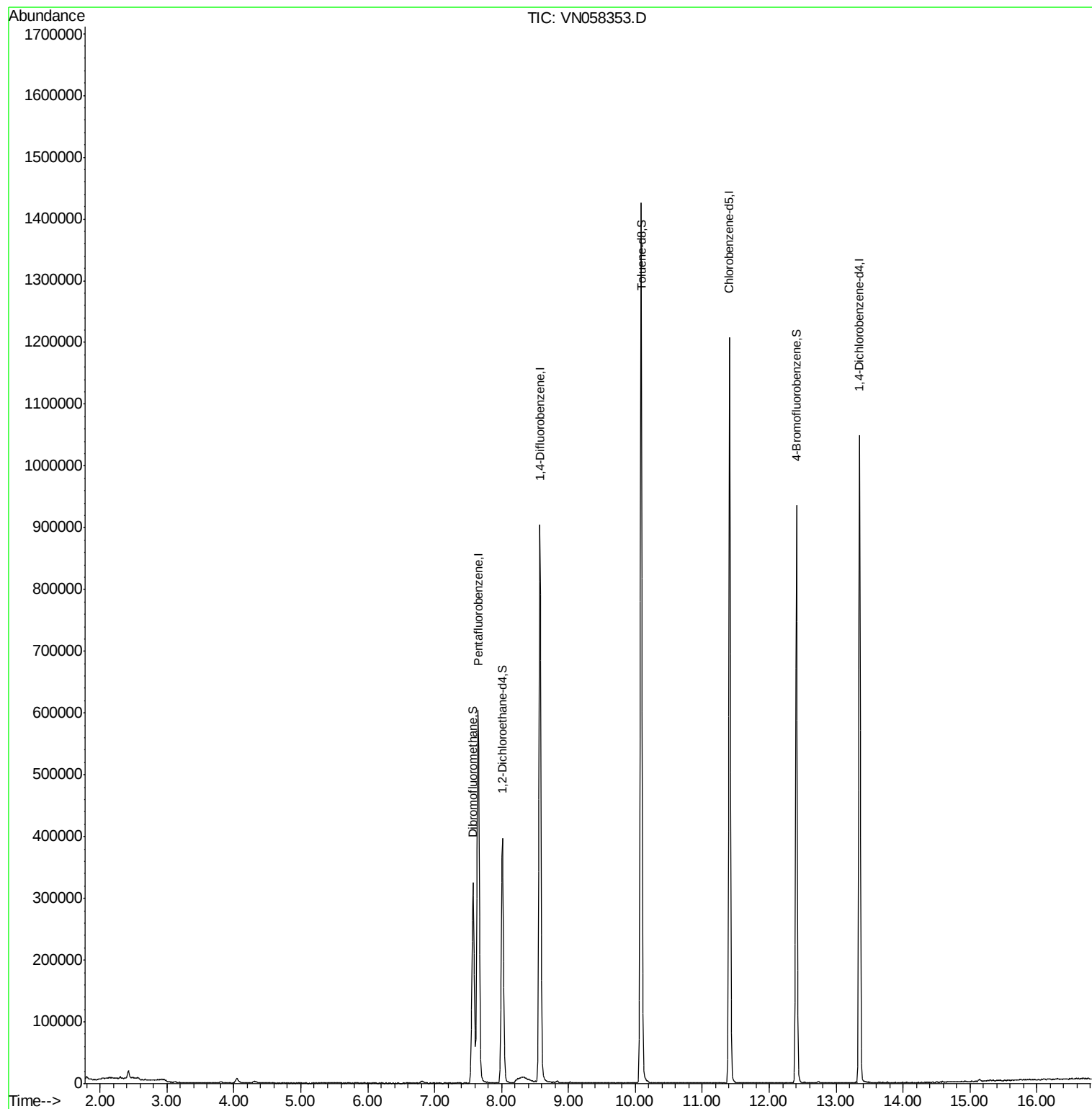
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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Quant Title : SW846 8260  
QLast Update : Thu Sep 19 09:27:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

Instrument :

MSVOA\_N

ClientSampleId :

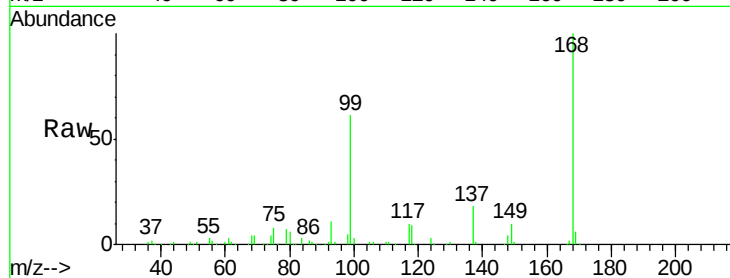
S49-0514

Tot Ion:168 Resp: 473759

Ion Ratio Lower Upper

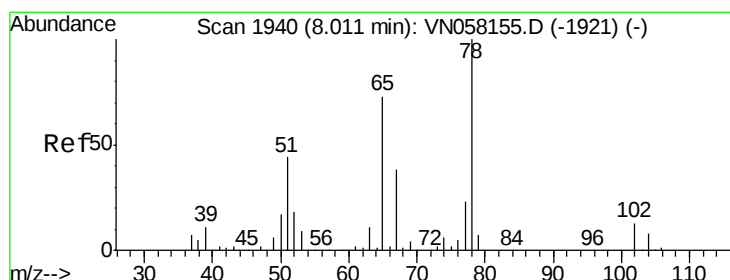
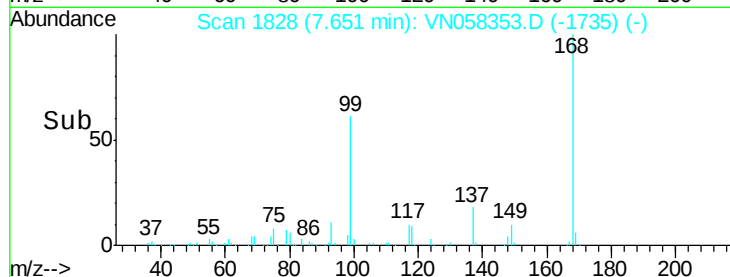
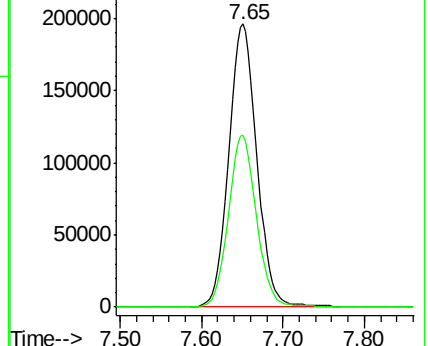
168 100

99 60.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#33

1,2-Dichloroethane-d4

Concen: 52.743 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058353.D

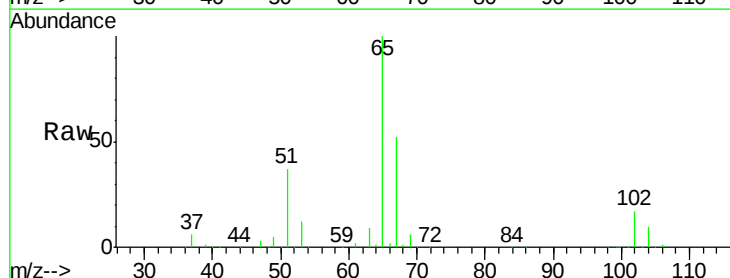
Acq: 25 Sep 2019 10:02

Tgt Ion: 65 Resp: 348028

Ion Ratio Lower Upper

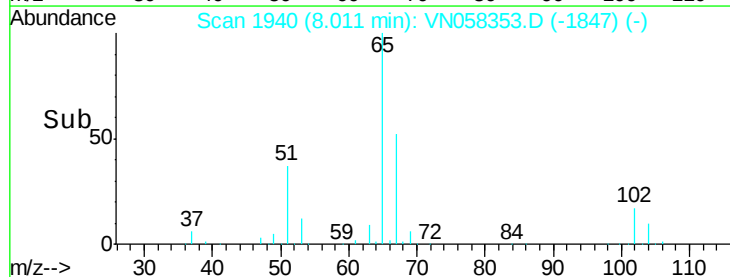
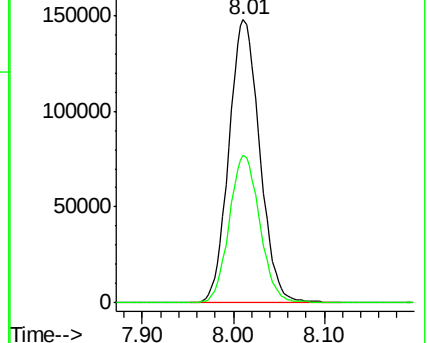
65 100

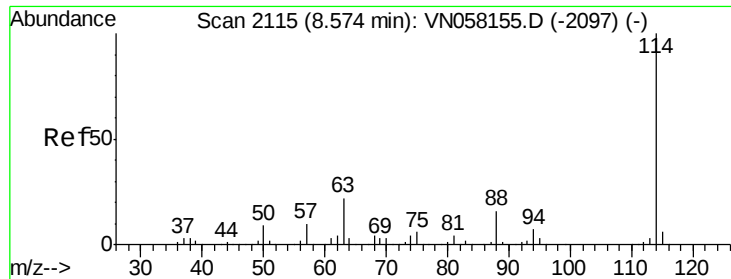
67 51.8 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

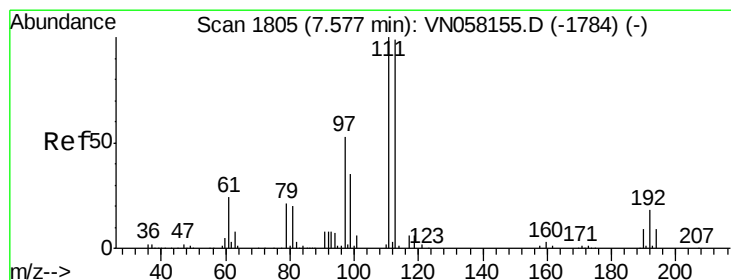
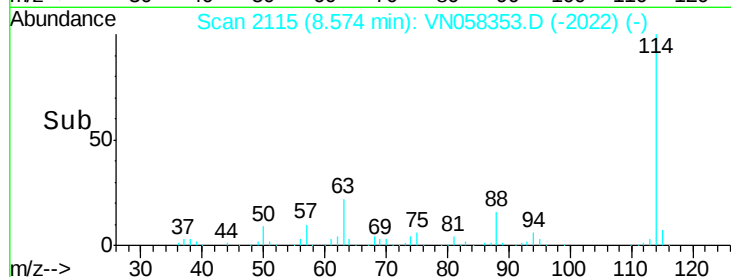
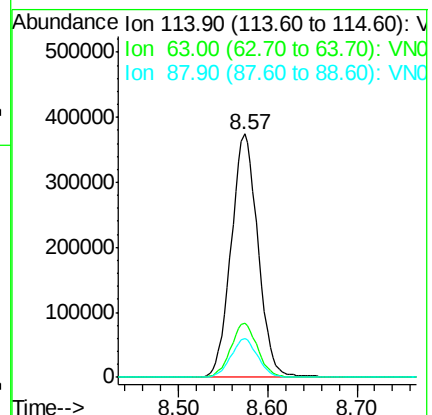
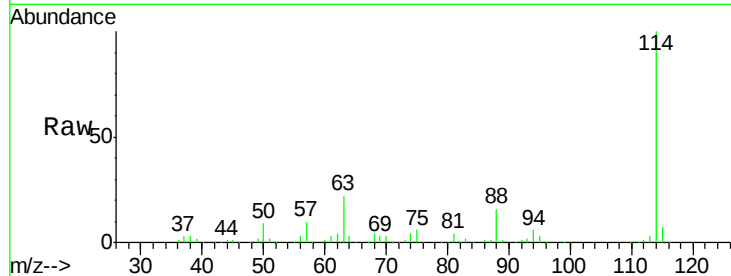




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.57 min Scan# 2115  
Delta R.T. 0.00 min  
Lab File: VN058353.D  
Acq: 25 Sep 2019 10:02

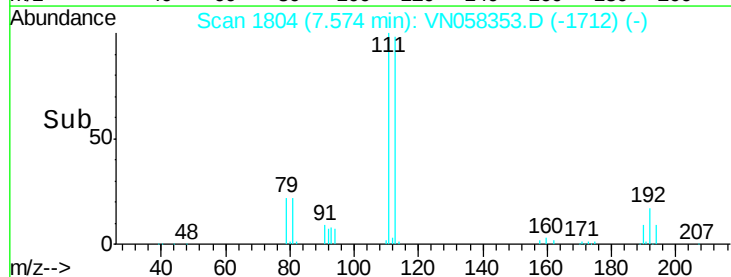
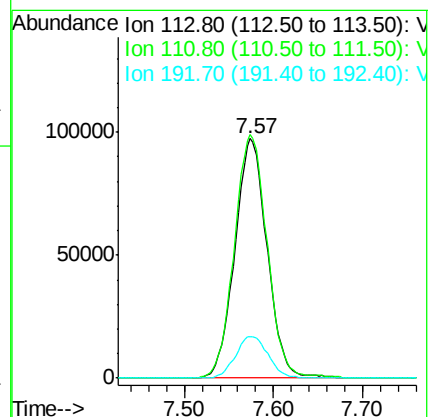
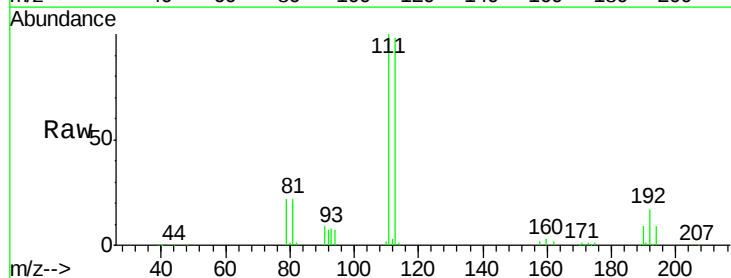
Instrument :  
MSVOA\_N  
ClientSampleId :  
S49-0514

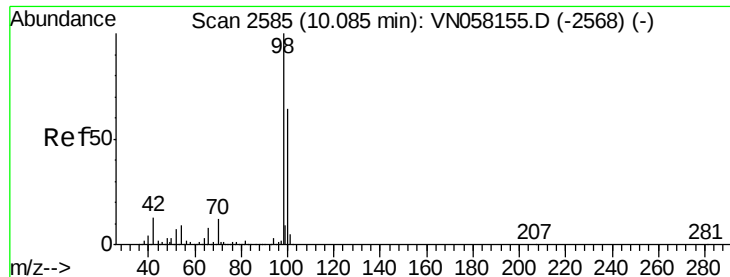
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.3  | 0.0   | 44.2  |
| 88      | 15.8  | 0.0   | 31.6  |



#35  
Dibromofluoromethane  
Concen: 51.519 ug/l  
RT: 7.57 min Scan# 1804  
Delta R.T. -0.00 min  
Lab File: VN058353.D  
Acq: 25 Sep 2019 10:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.7 | 81.8  | 122.6 |
| 192     | 17.7  | 14.5  | 21.7  |





#50

Toluene-d8

Concen: 52.505 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

Instrument :

MSVOA\_N

ClientSampled :

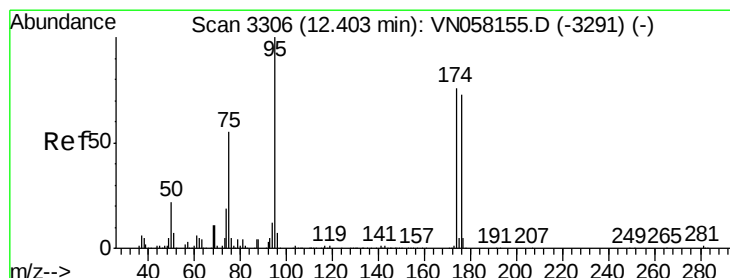
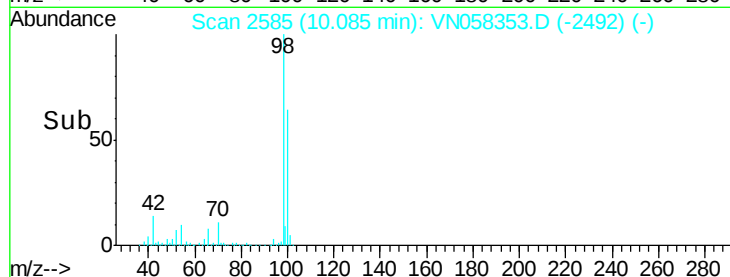
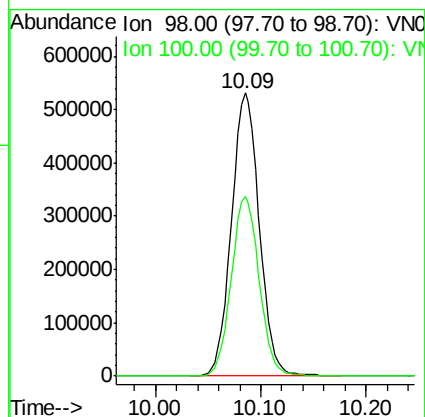
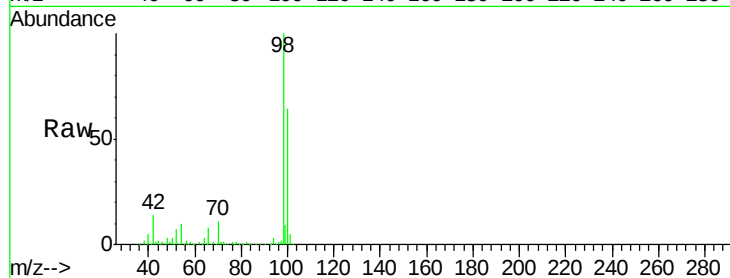
S49-0514

Tot Ion: 98 Resp: 969379

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



#62

4-Bromofluorobenzene

Concen: 45.595 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

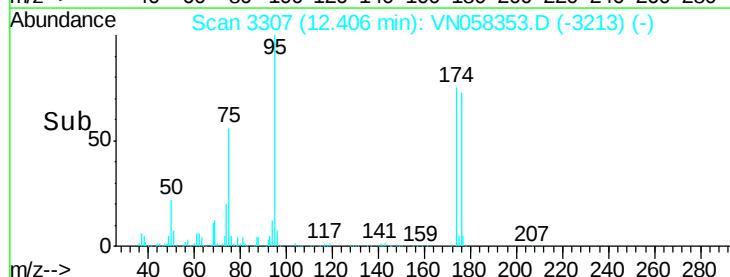
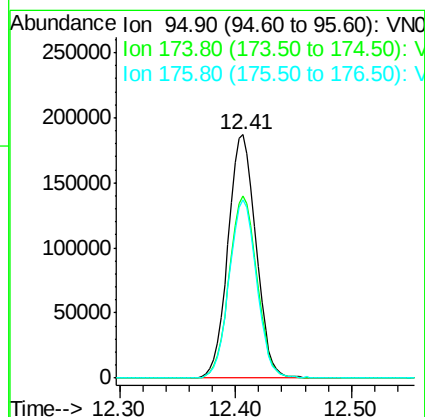
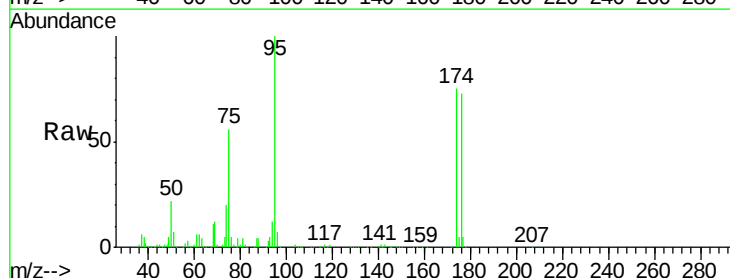
Tgt Ion: 95 Resp: 312702

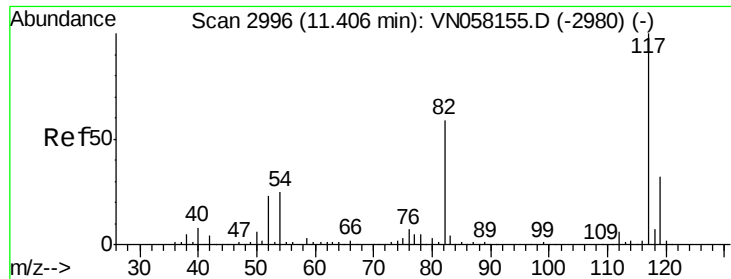
Ion Ratio Lower Upper

95 100

174 74.5 0.0 152.2

176 71.9 0.0 148.0

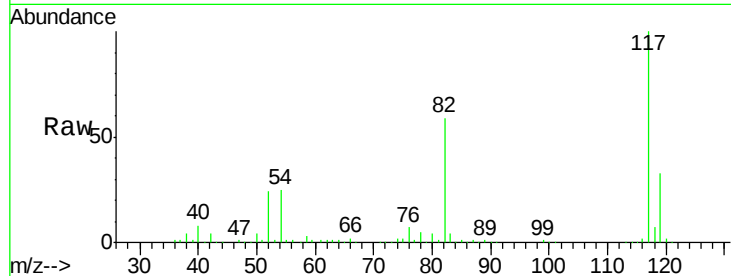




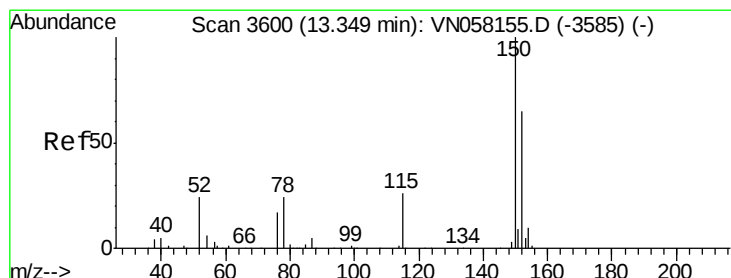
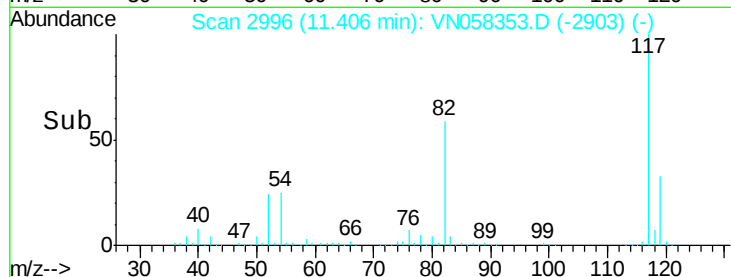
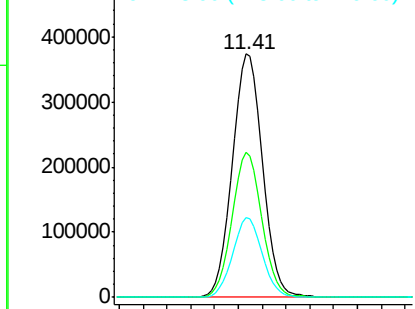
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN058353.D  
Acq: 25 Sep 2019 10:02

Instrument :  
MSVOA\_N  
ClientSampled :  
S49-0514

Tot Ion:117 Resp: 658828  
Ion Ratio Lower Upper  
117 100  
82 59.3 46.9 70.3  
119 32.6 25.3 37.9

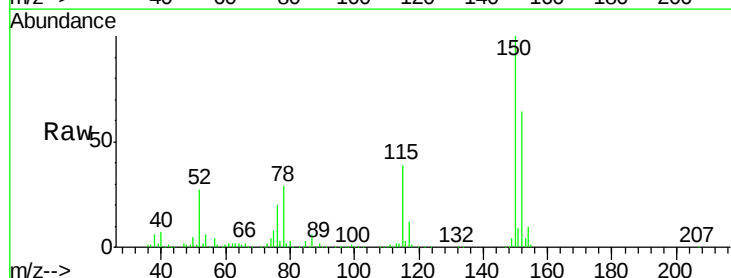


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3600  
Delta R.T. 0.00 min  
Lab File: VN058353.D  
Acq: 25 Sep 2019 10:02

Tgt Ion:152 Resp: 259907  
Ion Ratio Lower Upper  
152 100  
115 61.5 30.1 90.3  
150 159.6 0.0 346.4



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

