

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101520\  
 Data File : VN064137.D  
 Acq On : 15 Oct 2020 12:38  
 Operator : JC/MD  
 Sample : L4415-02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CAL-TB01-20201014

Quant Time: Oct 16 16:07:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101420W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 15 01:16:44 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 270366   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 518155   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 544753   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 190570   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.98  | 65   | 221112   | 57.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.84% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 183998   | 51.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.60% |          |
| 50) Toluene-d8              | 10.06 | 98   | 674127   | 49.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.64%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 228237   | 49.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.14%  |          |

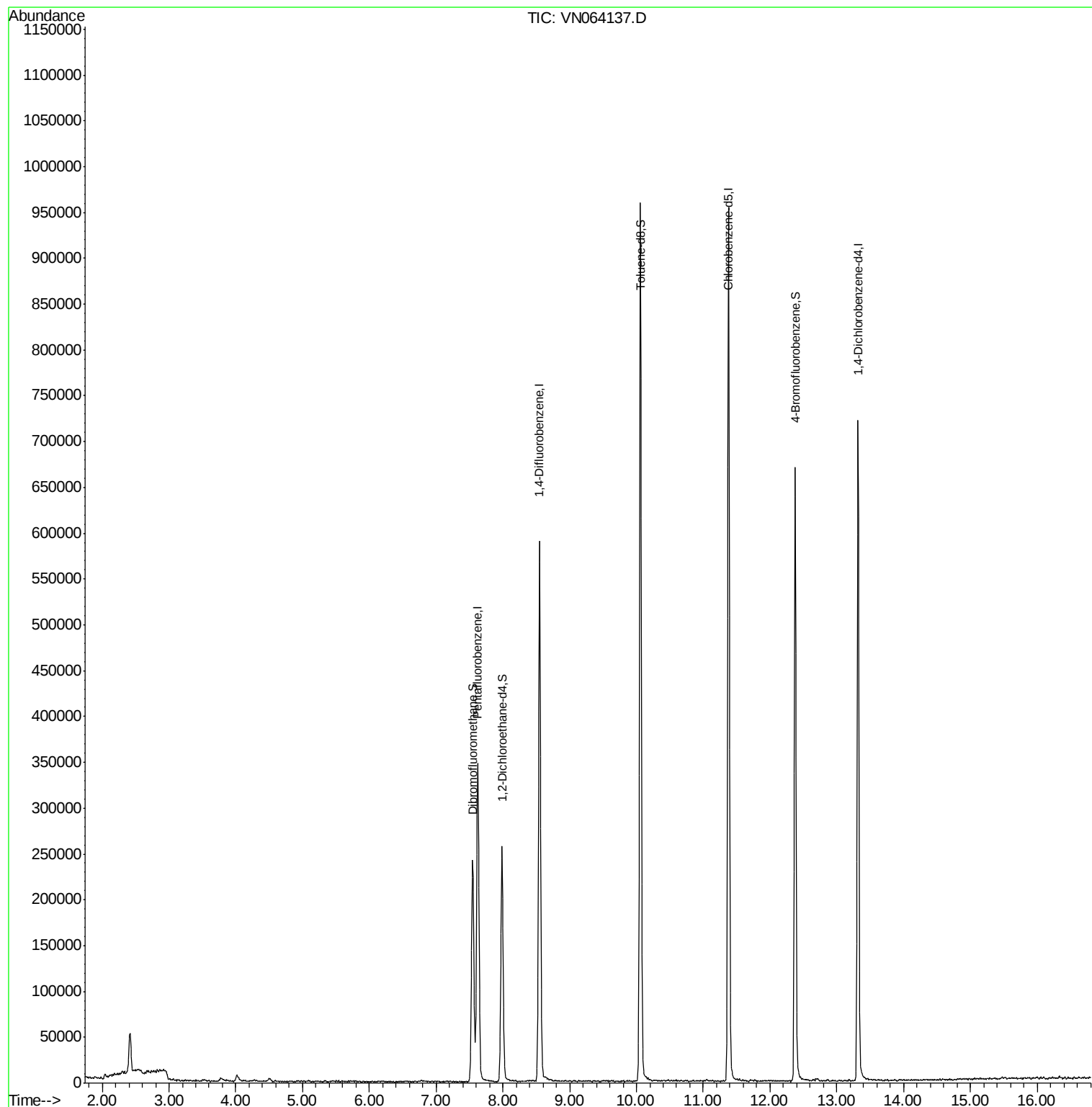
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

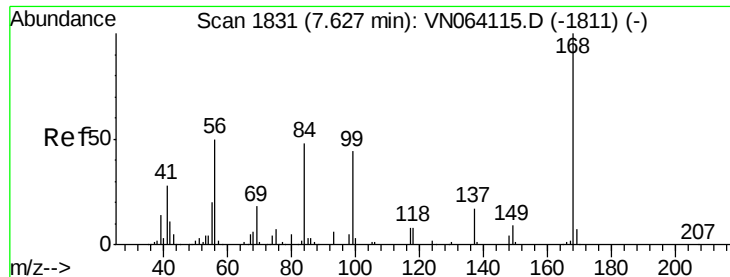
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Oct 15 01:16:44 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064137.D

Acq: 15 Oct 2020 12:38

Instrument :

MSVOA\_N

ClientSampleId :

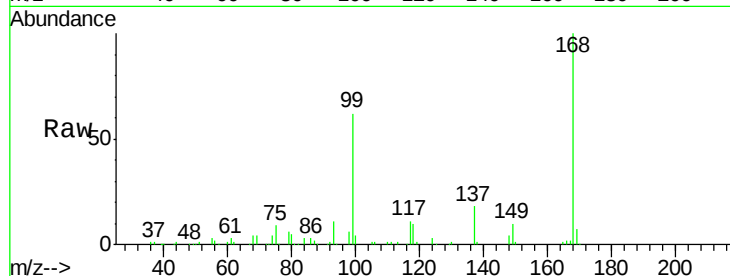
CAL-TB01-20201014

Tot Ion:168 Resp: 270366

Ion Ratio Lower Upper

168 100

99 62.3 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

120000

100000

80000

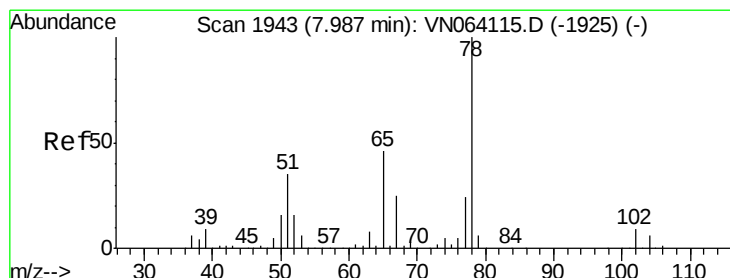
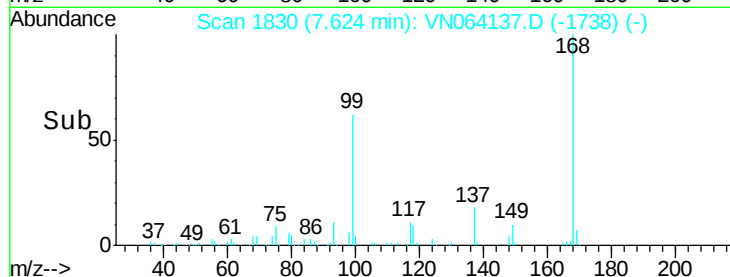
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#33

1,2-Dichloroethane-d4

Concen: 57.423 ug/l

RT: 7.98 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VN064137.D

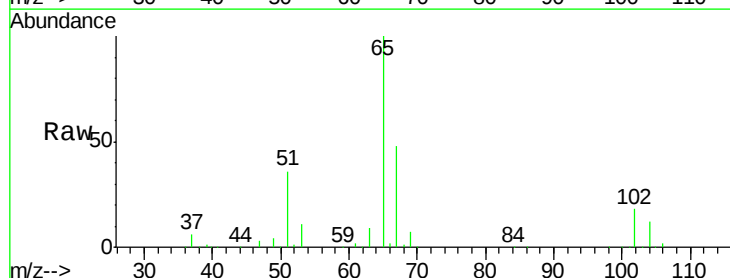
Acq: 15 Oct 2020 12:38

Tgt Ion: 65 Resp: 221112

Ion Ratio Lower Upper

65 100

67 51.7 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

7.98

100000

80000

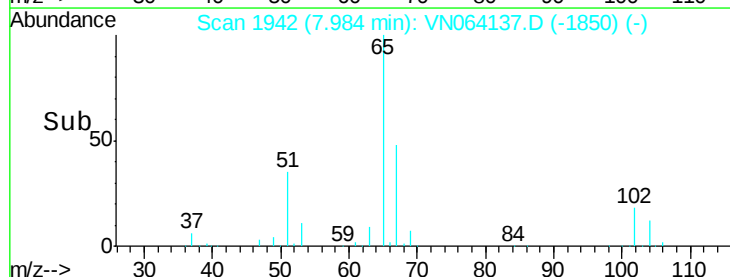
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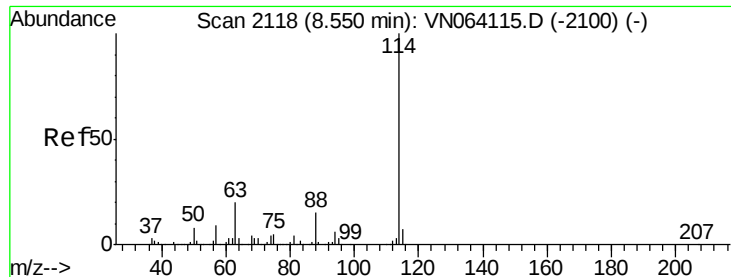
40000

20000

0

Time--> 7.90 8.00 8.10

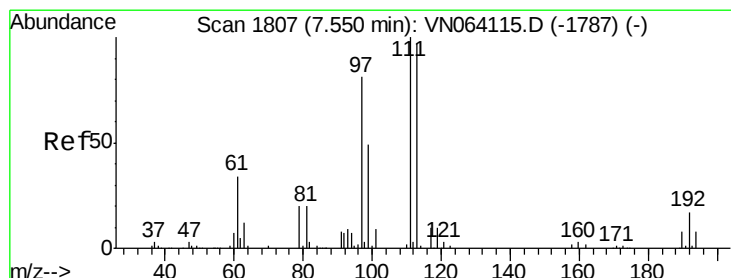
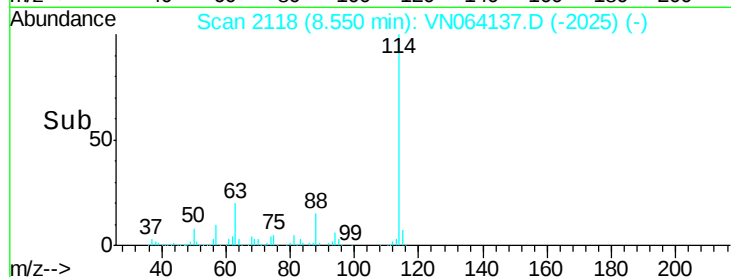
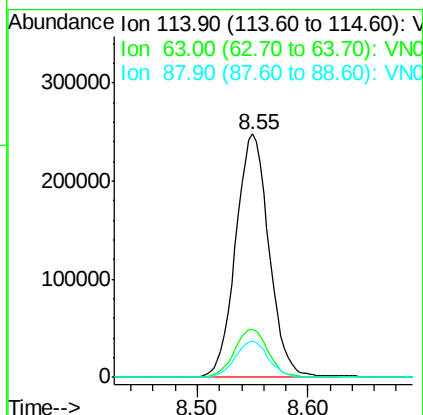
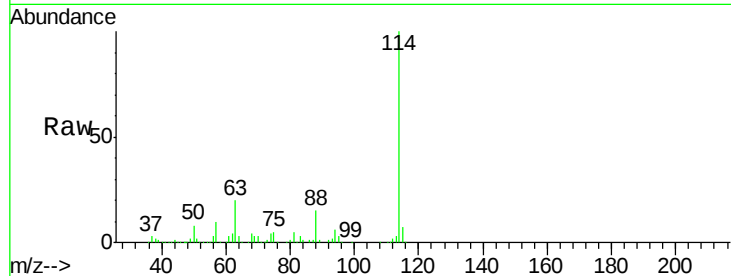




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN064137.D  
 Acq: 15 Oct 2020 12:38

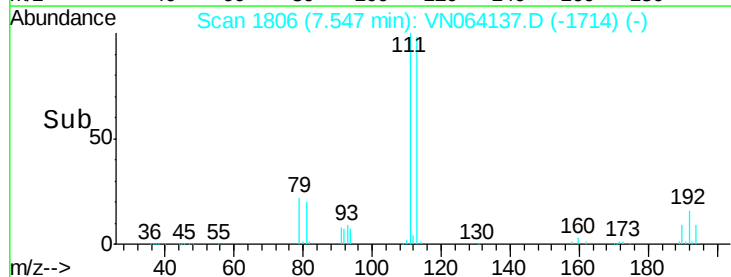
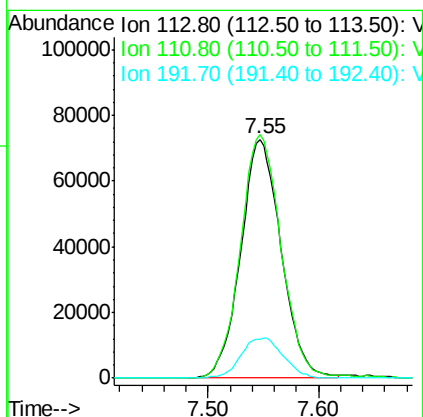
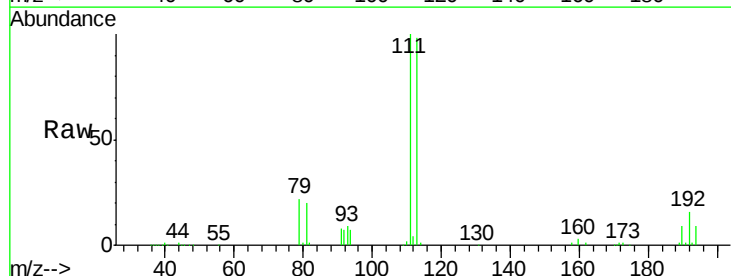
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CAL-TB01-20201014

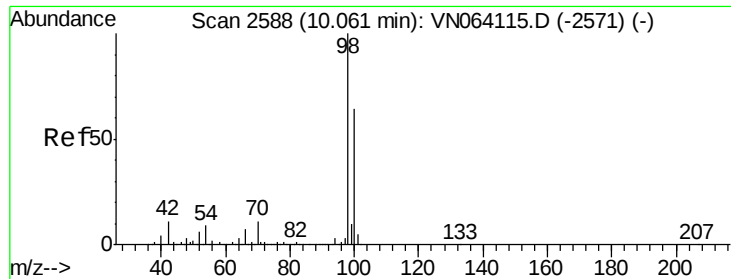
|             |       |        |
|-------------|-------|--------|
| Tot Ion:114 | Resp: | 518155 |
| Ion Ratio   | Lower | Upper  |
| 114 100     |       |        |
| 63 19.8     | 0.0   | 41.0   |
| 88 14.8     | 0.0   | 29.2   |



#35  
 Dibromofluoromethane  
 Concen: 51.304 ug/l  
 RT: 7.55 min Scan# 1806  
 Delta R.T. -0.00 min  
 Lab File: VN064137.D  
 Acq: 15 Oct 2020 12:38

|             |       |        |
|-------------|-------|--------|
| Tgt Ion:113 | Resp: | 183998 |
| Ion Ratio   | Lower | Upper  |
| 113 100     |       |        |
| 111 103.3   | 81.9  | 122.9  |
| 192 17.6    | 14.3  | 21.5   |





#50

Toluene-d8

Concen: 49.817 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064137.D

Acq: 15 Oct 2020 12:38

Instrument :

MSVOA\_N

ClientSampleId :

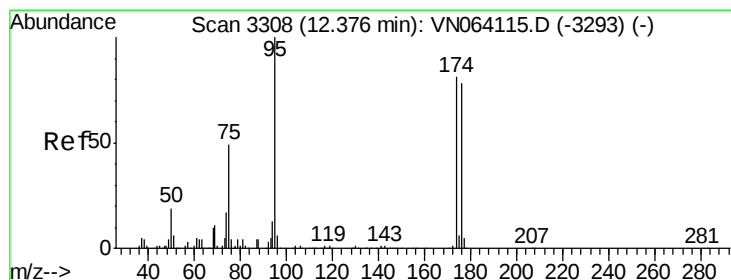
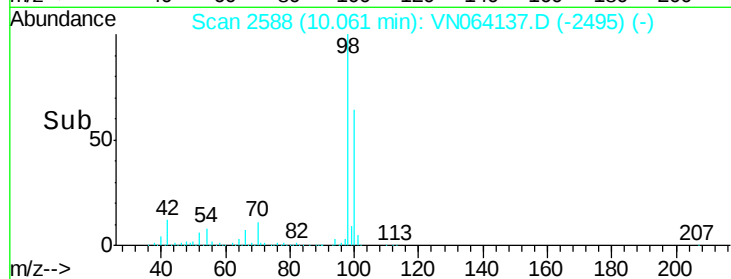
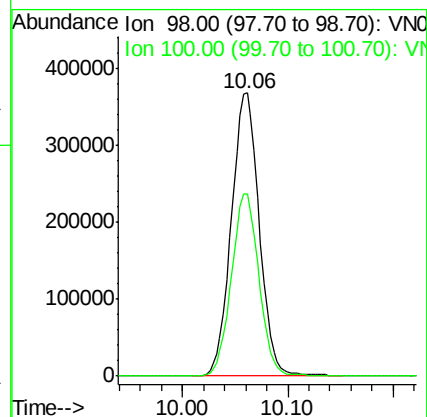
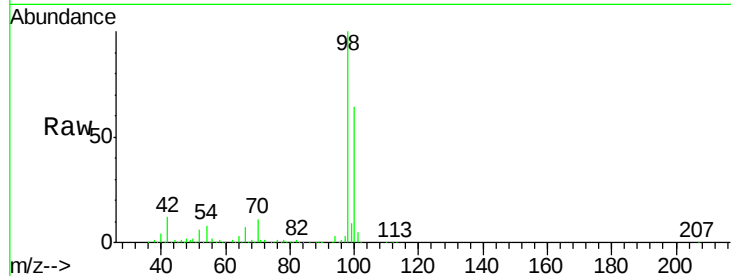
CAL-TB01-20201014

Tot Ion: 98 Resp: 674127

Ion Ratio Lower Upper

98 100

100 63.7 50.8 76.2



#62

4-Bromofluorobenzene

Concen: 49.069 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064137.D

Acq: 15 Oct 2020 12:38

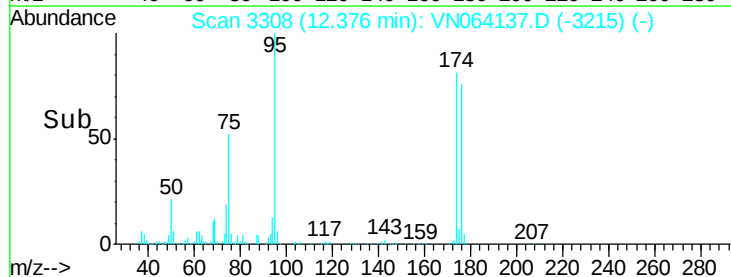
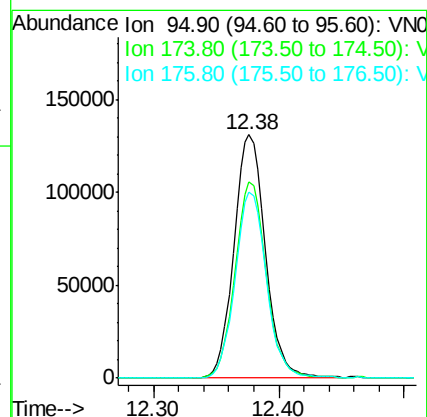
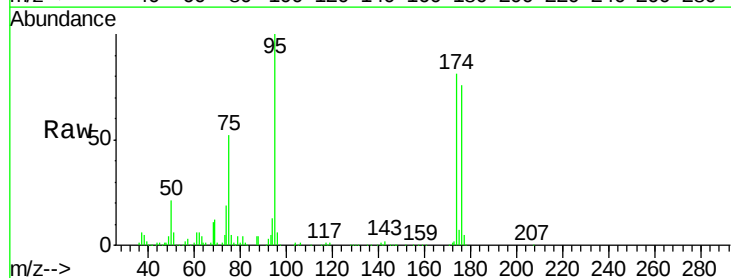
Tgt Ion: 95 Resp: 228237

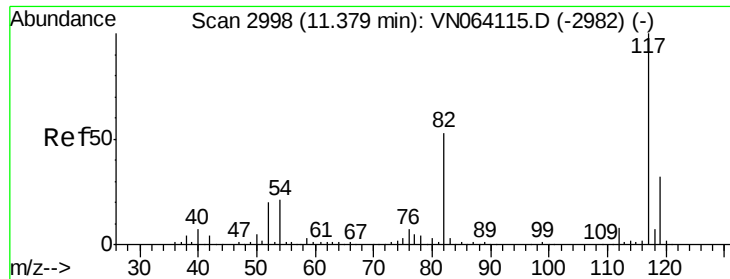
Ion Ratio Lower Upper

95 100

174 80.2 0.0 164.8

176 76.4 0.0 157.8

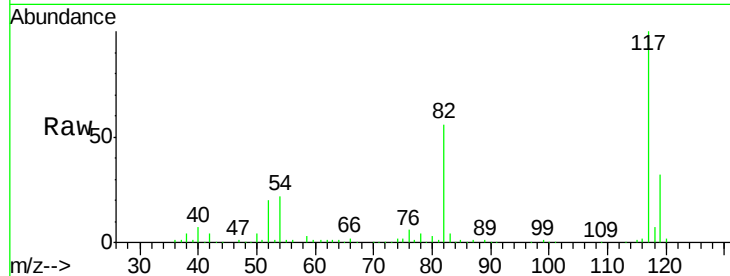




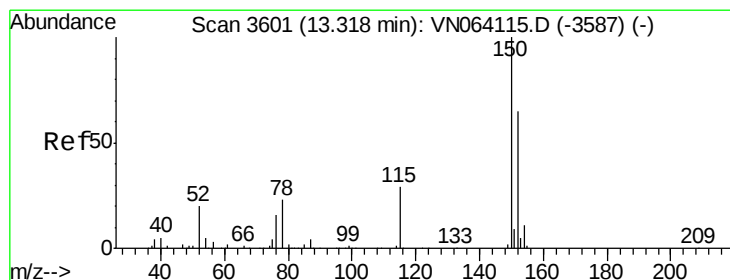
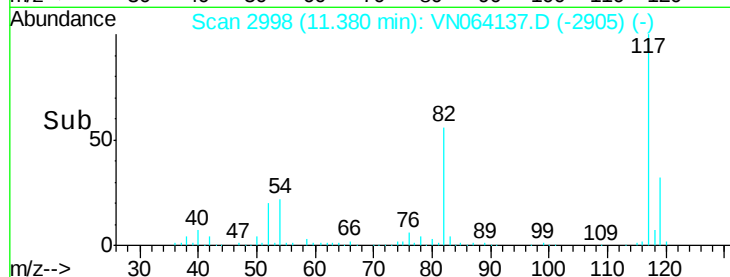
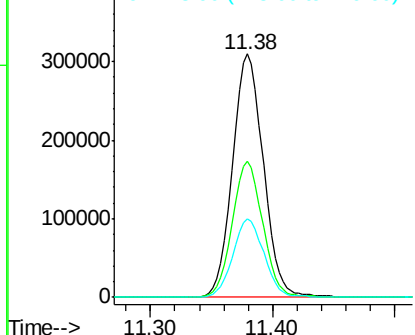
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. 0.00 min  
Lab File: VN064137.D  
Acq: 15 Oct 2020 12:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
CAL-TB01-20201014

Tot Ion:117 Resp: 544753  
Ion Ratio Lower Upper  
117 100  
82 55.8 42.6 63.8  
119 32.1 25.5 38.3

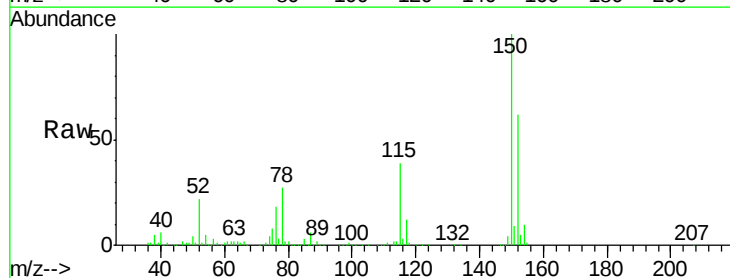


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3601  
Delta R.T. 0.00 min  
Lab File: VN064137.D  
Acq: 15 Oct 2020 12:38

Tgt Ion:152 Resp: 190570  
Ion Ratio Lower Upper  
152 100  
115 61.2 29.3 87.8  
150 160.4 0.0 346.0



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

