

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100219\  
 Data File : VN058483.D  
 Acq On : 2 Oct 2019 18:29  
 Operator : JC/SP  
 Sample : K4663-12  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OK-01-093019

Quant Time: Oct 03 05:44:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092719W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 30 08:07:38 2019  
 Response via : Initial Calibration

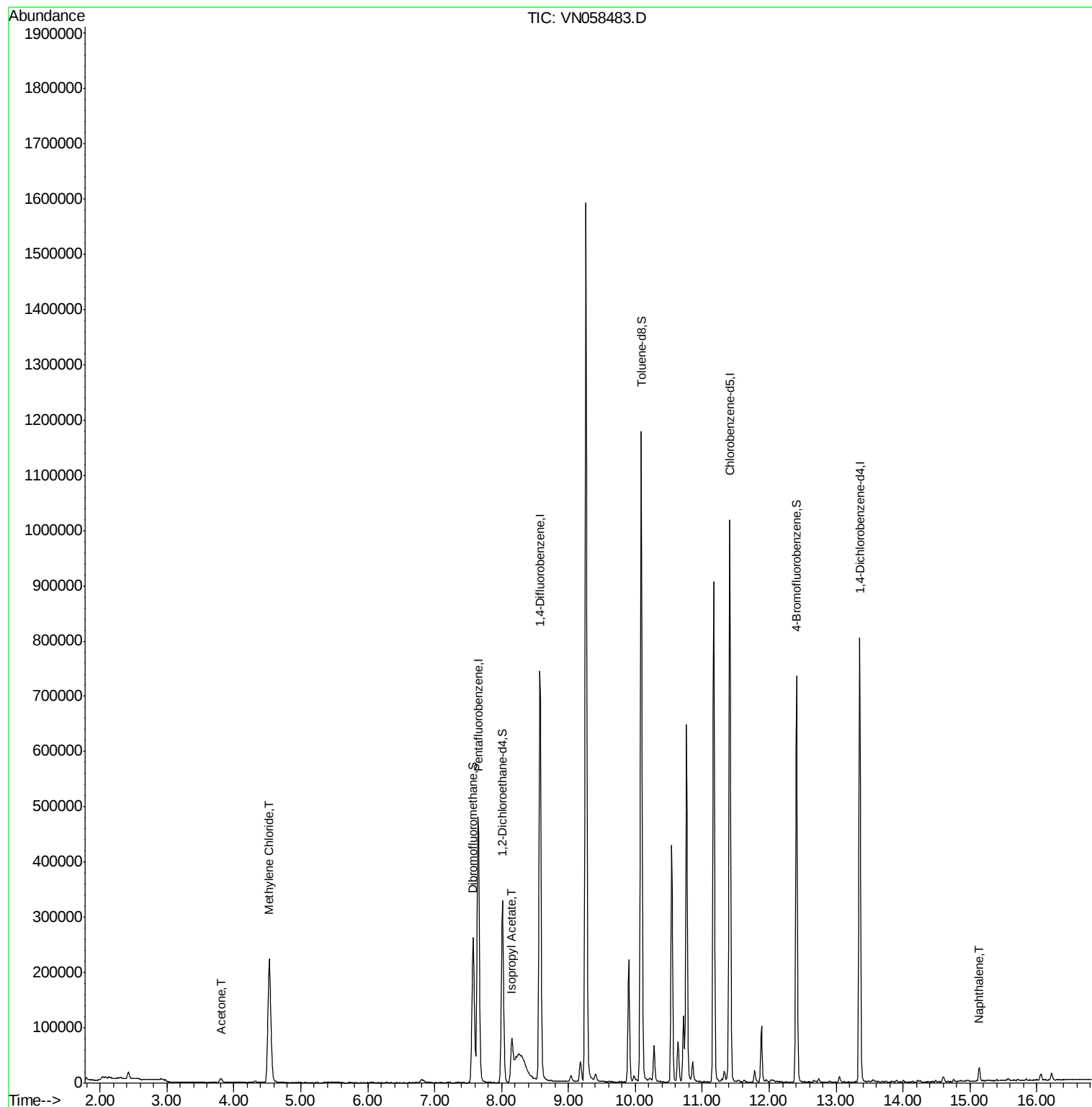
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.65  | 168  | 378762   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.57  | 114  | 635546   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 547485   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 195566   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 287213   | 51.89  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 103.78% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 200400   | 51.45  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 102.90% |          |
| 50) Toluene-d8              | 10.08 | 98   | 797560   | 52.27  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 104.54% |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 245713   | 44.53  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 89.06%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 3.80  | 43   | 13563    | 7.188  | ug/l    | 99       |
| 20) Methylene Chloride      | 4.53  | 84   | 161281   | 37.040 | ug/l    | 98       |
| 43) Isopropyl Acetate       | 8.15  | 43   | 119461   | 12.330 | ug/l #  | 92       |
| 95) Naphthalene             | 15.14 | 128  | 20787    | 2.148  | ug/l    | 98       |

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

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QLast Update : Mon Sep 30 08:07:38 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: VN058483.D

Acq: 2 Oct 2019 18:29

Instrument :

MSVOA\_N

ClientSampleId :

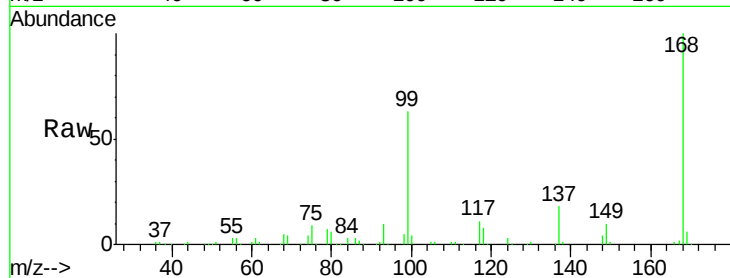
OK-01-093019

Tot Ion:168 Resp: 378762

Ion Ratio Lower Upper

168 100

99 62.8 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

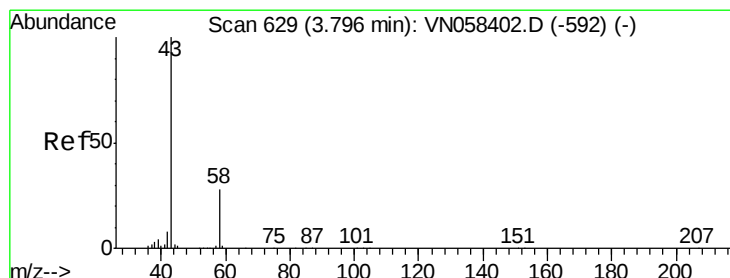
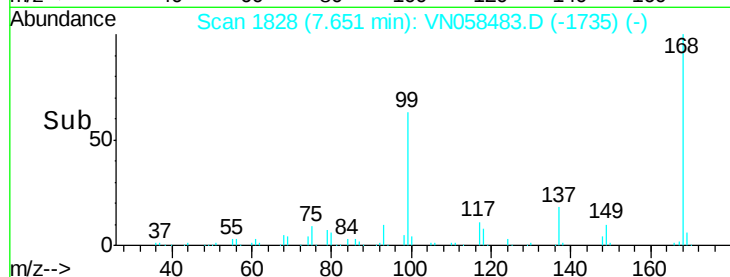
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 7.188 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058483.D

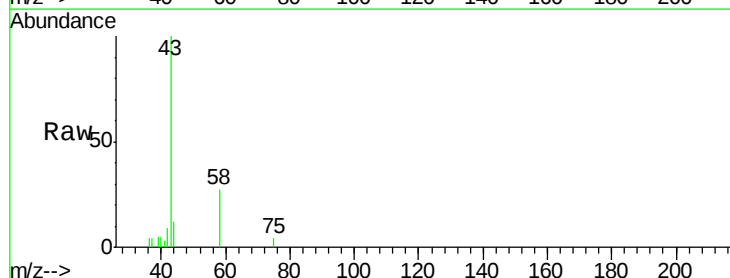
Acq: 2 Oct 2019 18:29

Tgt Ion: 43 Resp: 13563

Ion Ratio Lower Upper

43 100

58 27.2 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.80

5000

4000

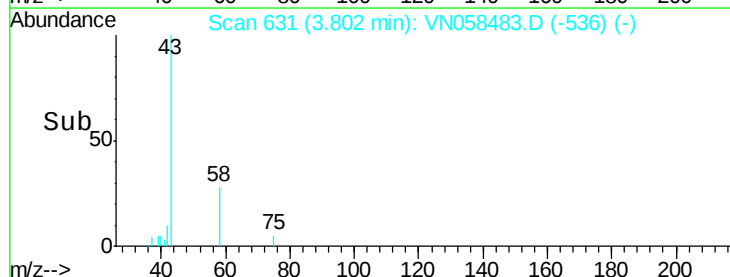
3000

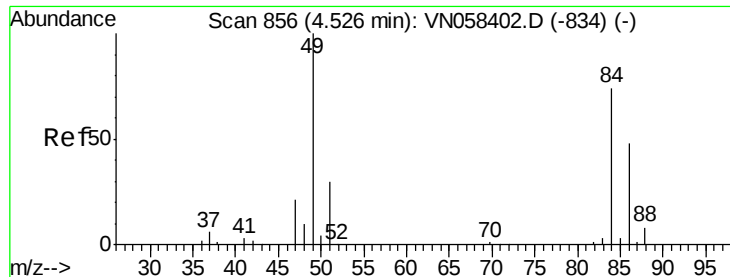
2000

1000

0

Time-->

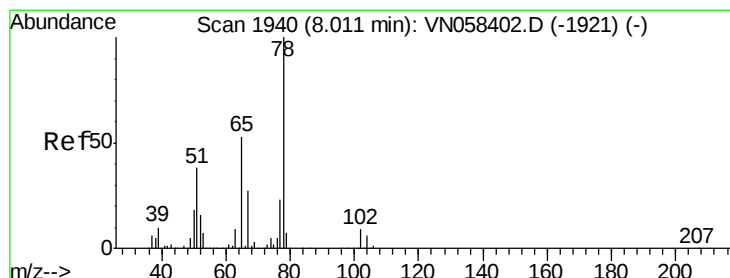
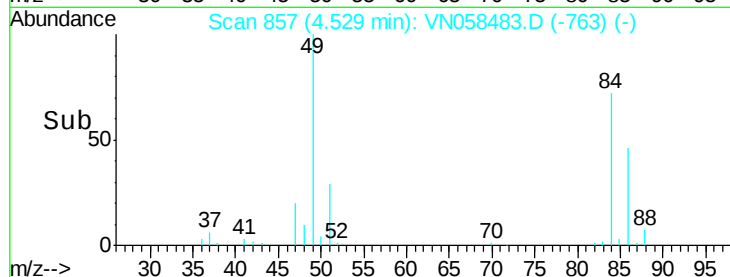
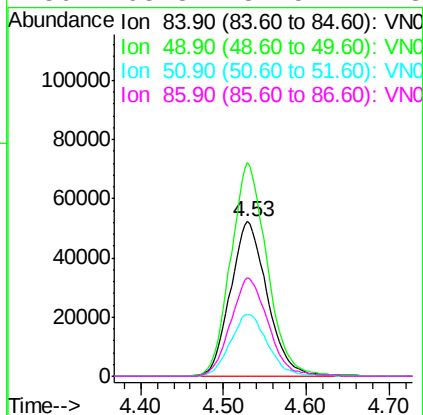
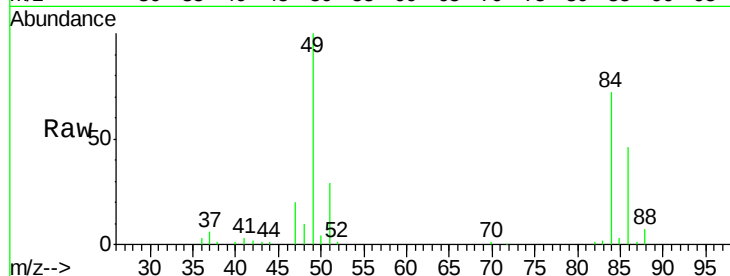




#20  
Methvlene Chloride  
Concen: 37.040 ug/l  
RT: 4.53 min Scan# 857  
Delta R.T. 0.00 min  
Lab File: VN058483.D  
Acq: 2 Oct 2019 18:29

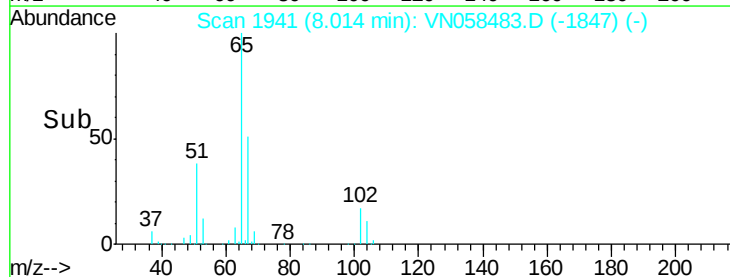
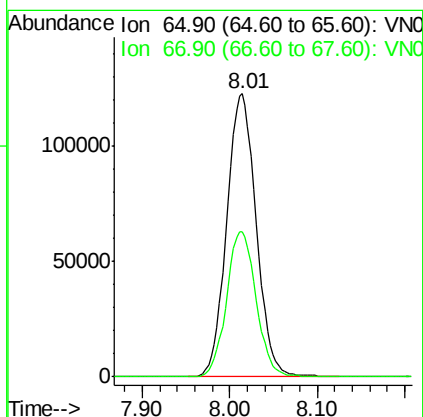
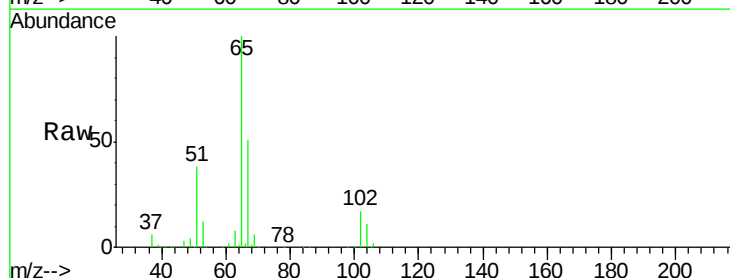
Instrument :  
MSVOA\_N  
ClientSampled :  
OK-01-093019

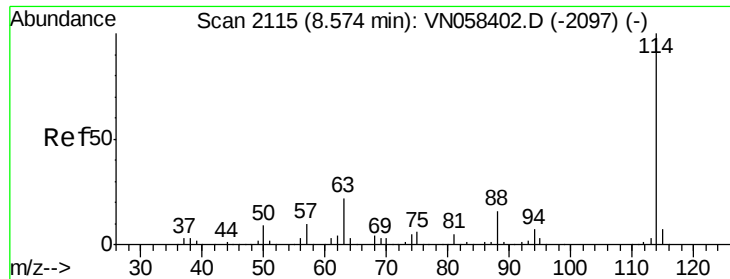
Tot Ion: 84 Resp: 161281  
Ion Ratio Lower Upper  
84 100  
49 138.2 107.9 161.9  
51 40.1 32.8 49.2  
86 63.8 51.5 77.3



#33  
1,2-Dichloroethane-d4  
Concen: 51.890 ug/l  
RT: 8.01 min Scan# 1941  
Delta R.T. 0.00 min  
Lab File: VN058483.D  
Acq: 2 Oct 2019 18:29

Tgt Ion: 65 Resp: 287213  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 102.4

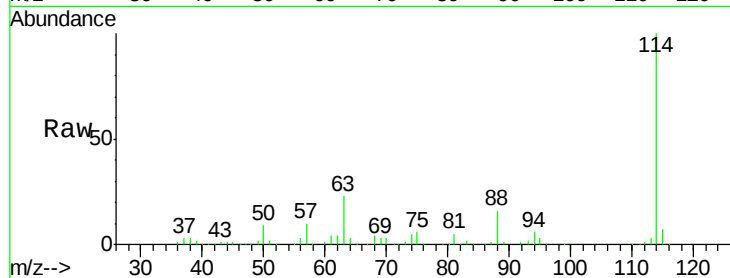




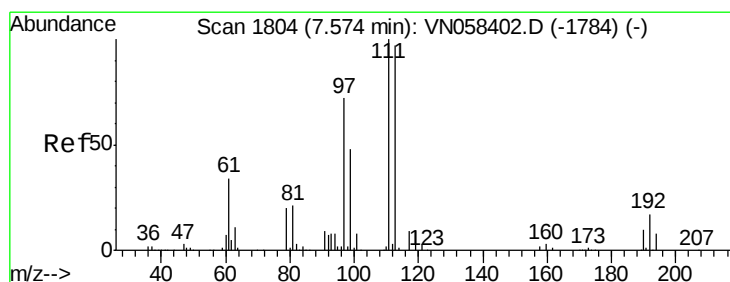
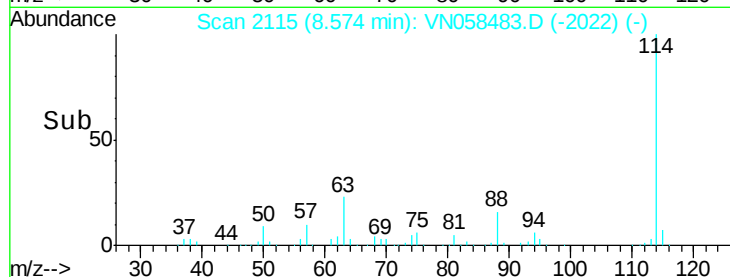
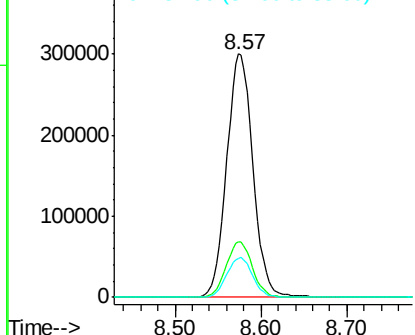
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.57 min Scan# 2115  
Delta R.T. 0.00 min  
Lab File: VN058483.D  
Acq: 2 Oct 2019 18:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-01-093019

Tot Ion:114 Resp: 635546  
Ion Ratio Lower Upper  
114 100  
63 23.0 0.0 45.0  
88 16.2 0.0 32.2

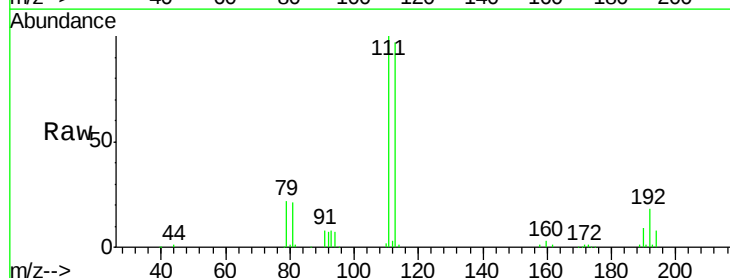


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): V  
Ion 87.90 (87.60 to 88.60): V

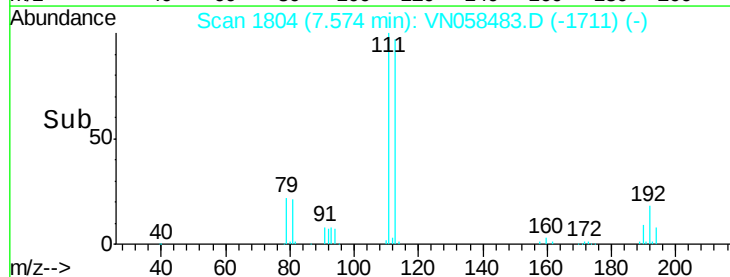
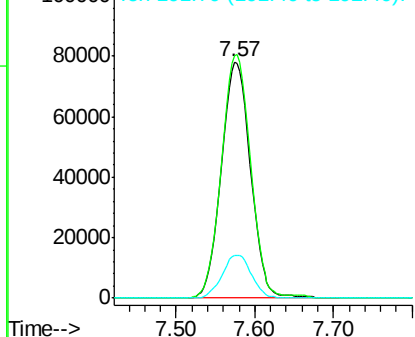


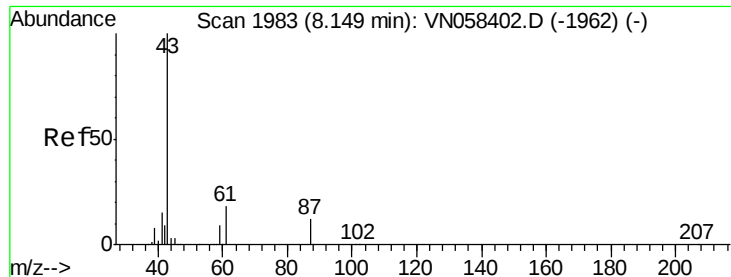
#35  
Dibromofluoromethane  
Concen: 51.448 ug/l  
RT: 7.57 min Scan# 1804  
Delta R.T. 0.00 min  
Lab File: VN058483.D  
Acq: 2 Oct 2019 18:29

Tgt Ion:113 Resp: 200400  
Ion Ratio Lower Upper  
113 100  
111 102.8 83.4 125.2  
192 18.3 14.9 22.3



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





#43

Isopropyl Acetate

Concen: 12.330 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058483.D

Acq: 2 Oct 2019 18:29

Instrument :

MSVOA\_N

ClientSampled :

OK-01-093019

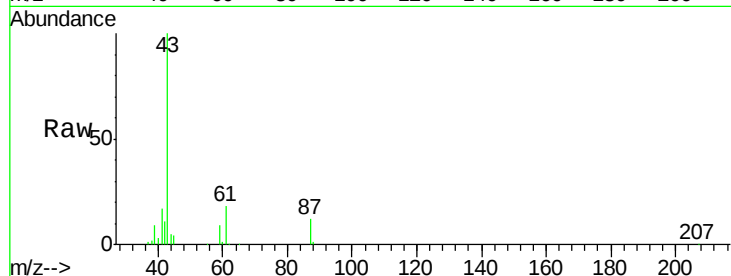
Tot Ion: 43 Resp: 119461

Ion Ratio Lower Upper

43 100

61 14.3 14.8 22.2#

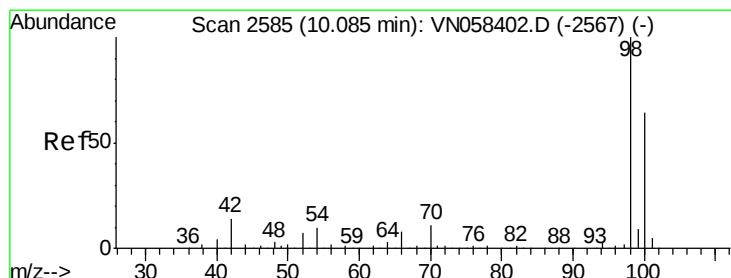
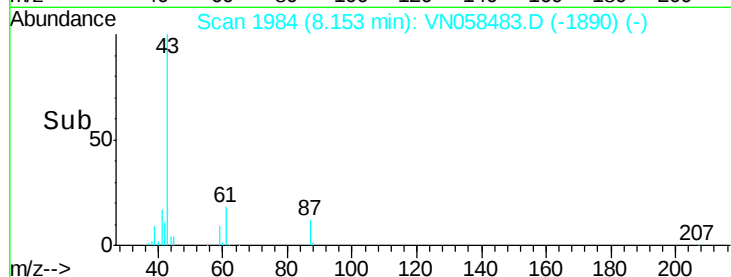
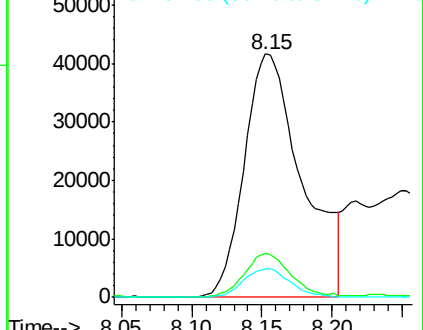
87 9.5 9.7 14.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 52.268 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058483.D

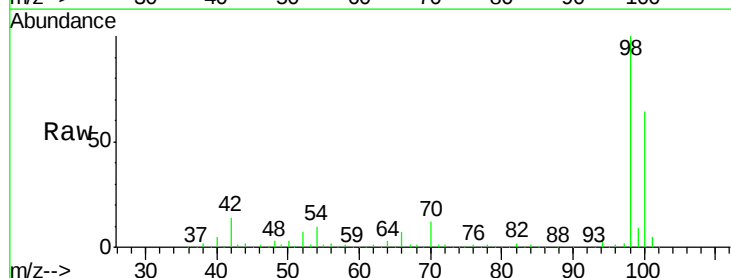
Acq: 2 Oct 2019 18:29

Tgt Ion: 98 Resp: 797560

Ion Ratio Lower Upper

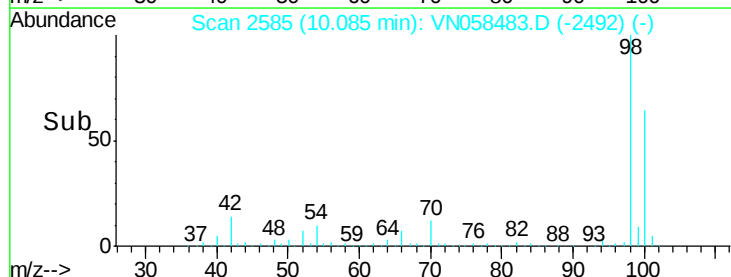
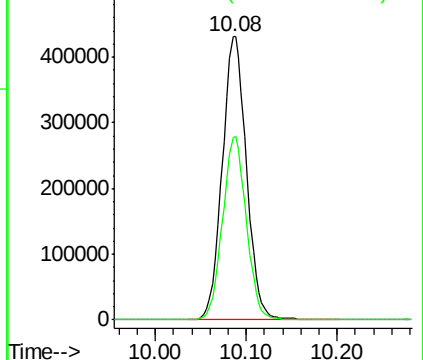
98 100

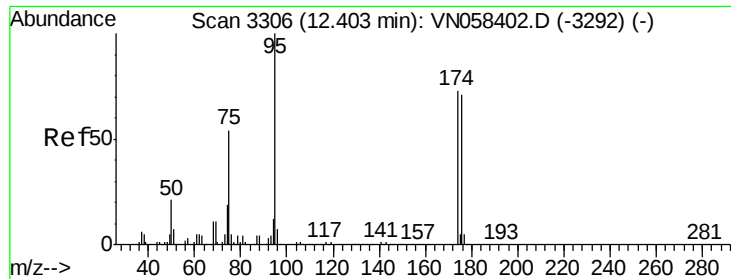
100 63.5 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 44.534 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058483.D

Acq: 2 Oct 2019 18:29

Instrument :

MSVOA\_N

ClientSampleId :

OK-01-093019

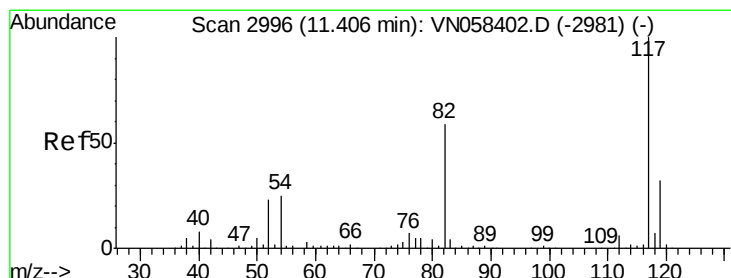
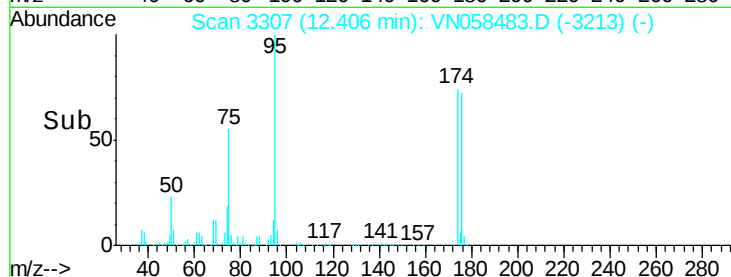
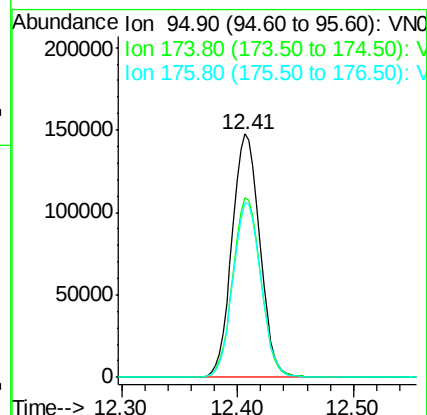
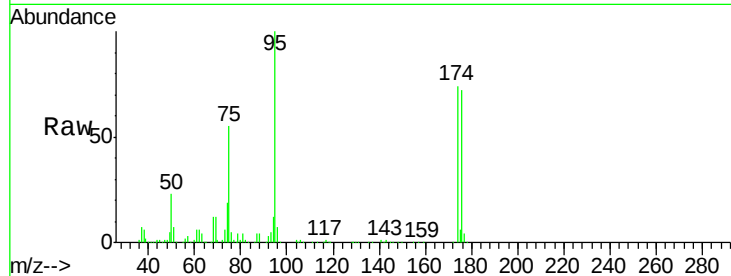
Tot Ion: 95 Resp: 245713

Ion Ratio Lower Upper

95 100

174 74.3 0.0 150.6

176 72.3 0.0 146.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058483.D

Acq: 2 Oct 2019 18:29

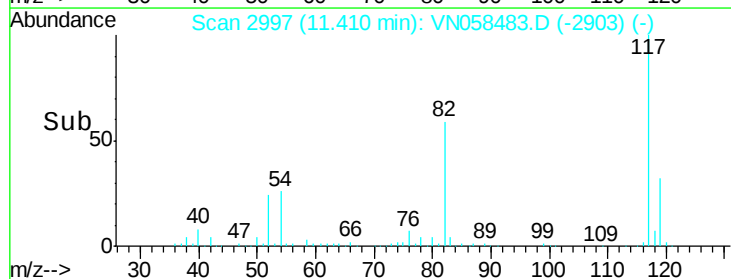
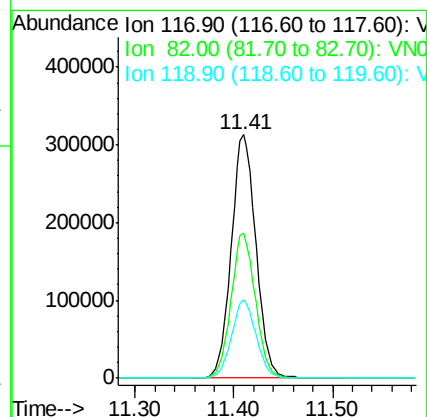
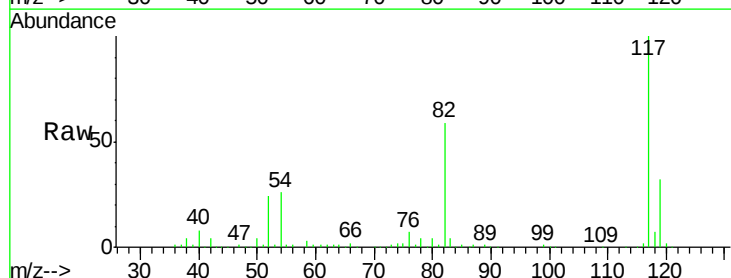
Tgt Ion: 117 Resp: 547485

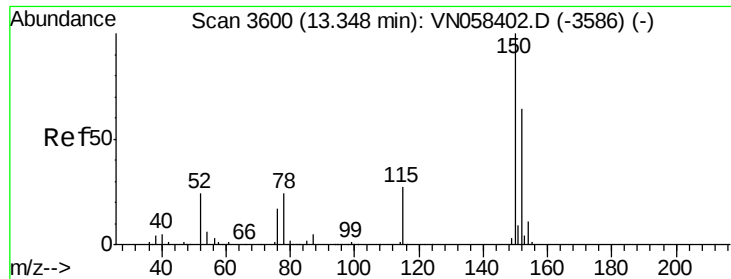
Ion Ratio Lower Upper

117 100

82 59.4 47.4 71.0

119 32.0 25.5 38.3



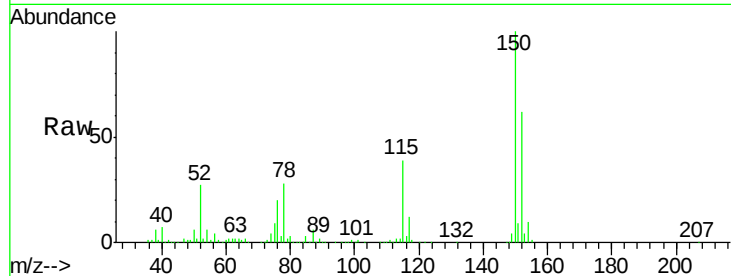


#72

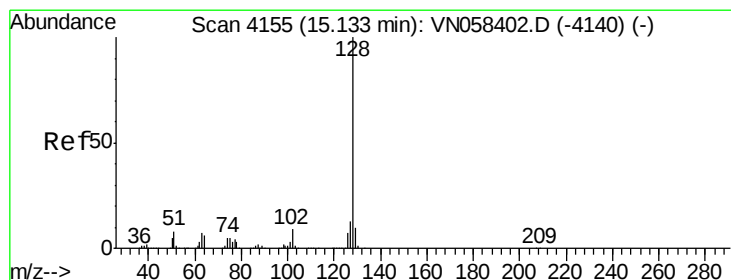
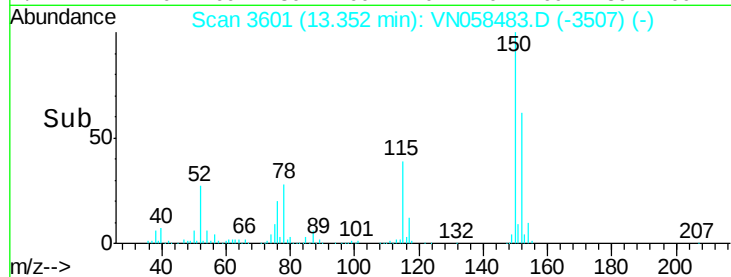
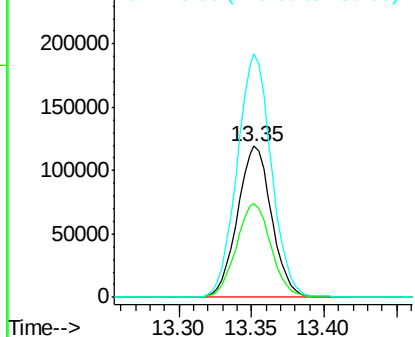
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3601  
Delta R.T. 0.00 min  
Lab File: VN058483.D  
Acq: 2 Oct 2019 18:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-01-093019

Tot Ion:152 Resp: 195566  
Ion Ratio Lower Upper  
152 100  
115 63.1 30.0 90.0  
150 161.4 0.0 348.2



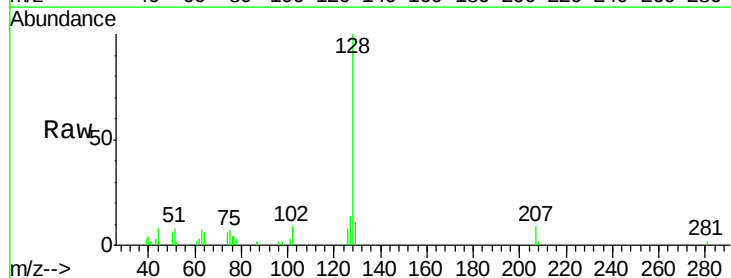
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



#95

Naphthalene  
Concen: 2.148 ug/l  
RT: 15.14 min Scan# 4156  
Delta R.T. 0.00 min  
Lab File: VN058483.D  
Acq: 2 Oct 2019 18:29

Tgt Ion:128 Resp: 20787  
Ion Ratio Lower Upper  
128 100  
127 13.7 10.2 15.4  
129 10.0 8.3 12.5



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

