

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062419\  
 Data File : VN056447.D  
 Acq On : 24 Jun 2019 11:51  
 Operator : JC/SP  
 Sample : PB120834ZHE#02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB120834ZHE#02

Quant Time: Jun 25 01:42:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 21 03:45:40 2019  
 Response via : Initial Calibration

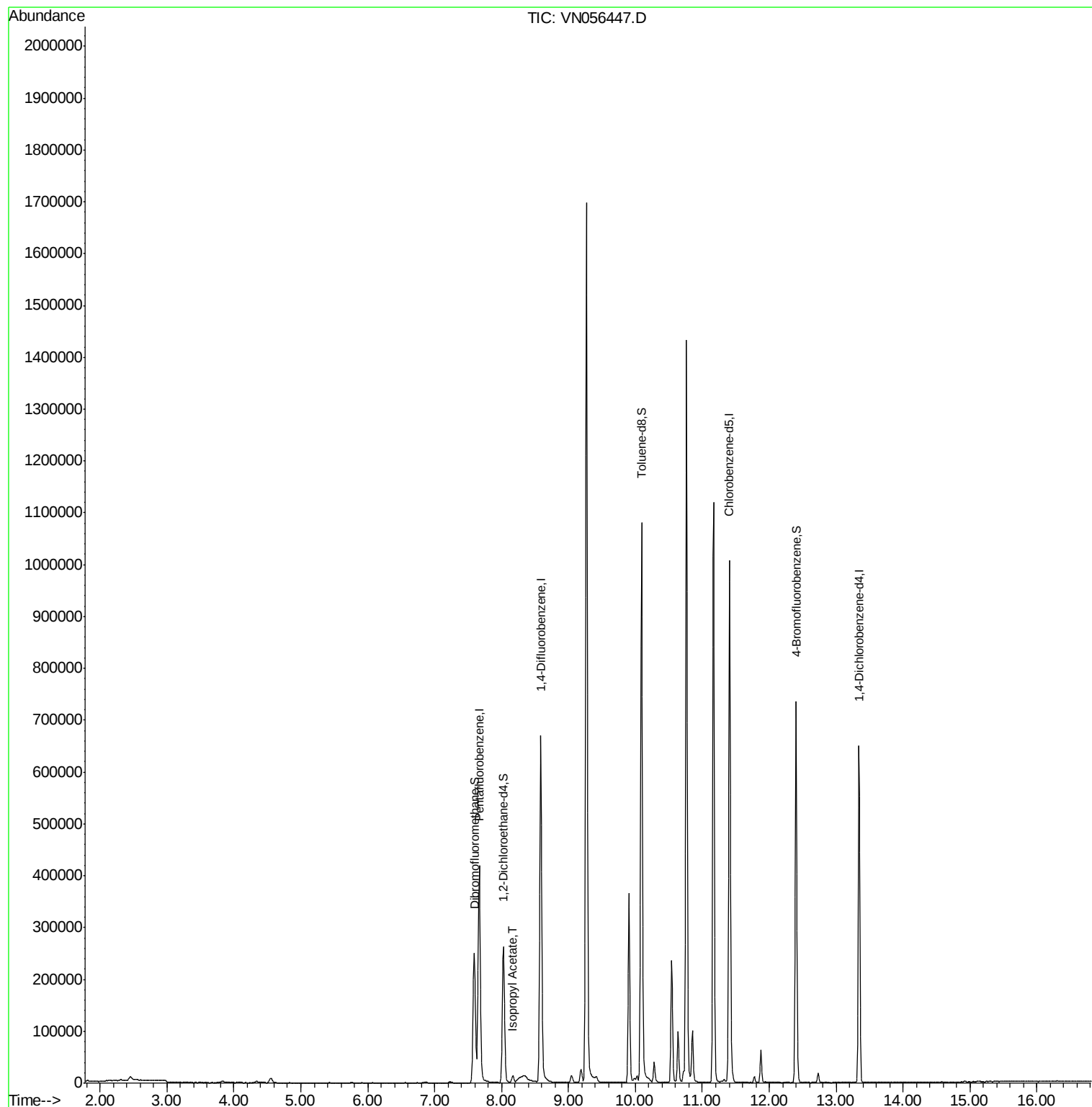
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 7.67  | 168  | 384568   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59  | 114  | 652909   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 650296   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.34 | 152  | 187122   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 220251   | 51.68 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.36% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 194137   | 47.66 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.32%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 819329   | 51.70 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.40% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 261884   | 49.57 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.14%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 43) Isopropyl Acetate       | 8.17  | 43   | 16236    | 1.864 | ug/l #  | 77       |

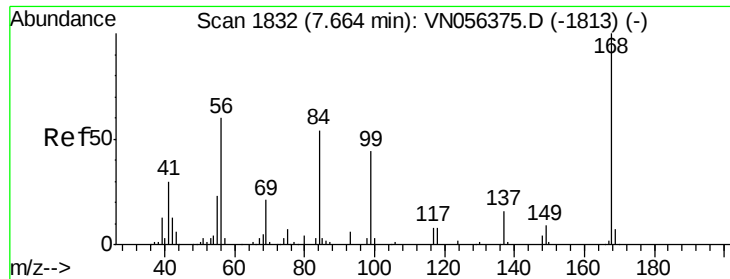
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jun 21 03:45:40 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

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Instrument :

MSVOA\_N

ClientSampleId :

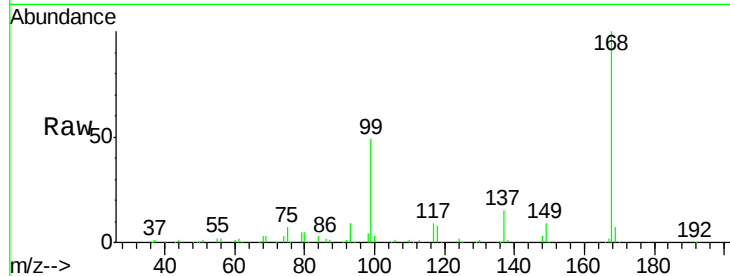
PB120834ZHE#02

Tot Ion:168 Resp: 384568

Ion Ratio Lower Upper

168 100

99 49.4 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

150000

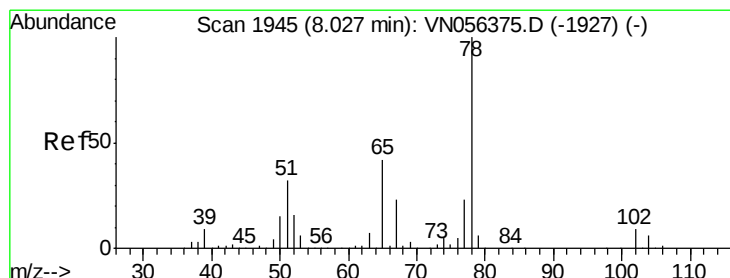
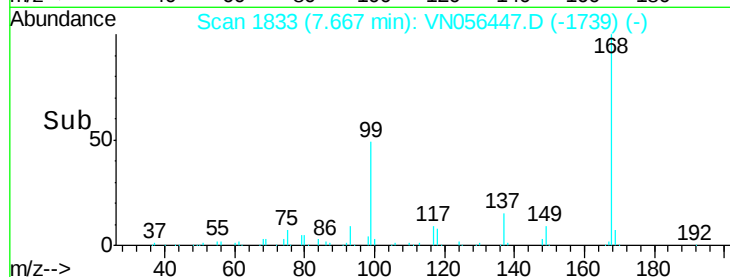
100000

50000

0

7.60 7.70 7.80

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.675 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN056447.D

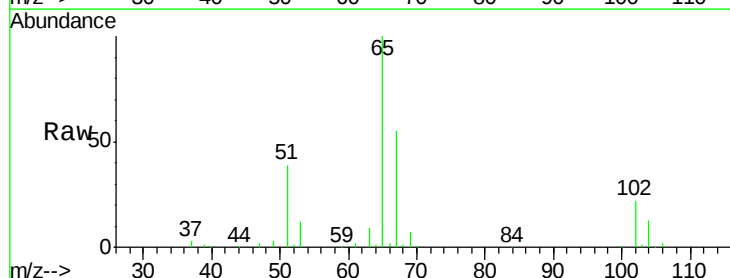
Acq: 24 Jun 2019 11:51

Tgt Ion: 65 Resp: 220251

Ion Ratio Lower Upper

65 100

67 55.5 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

8.03

100000

80000

60000

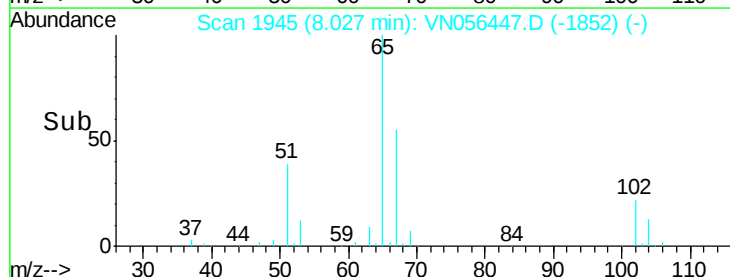
40000

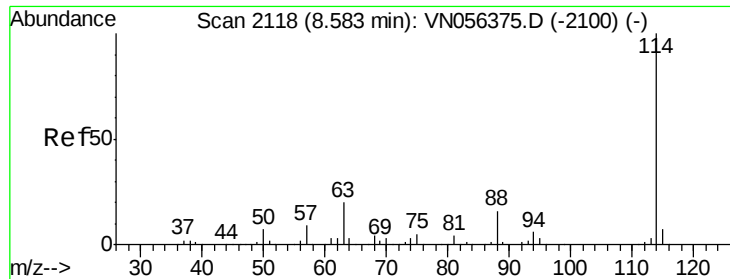
20000

0

7.90 8.00 8.10

Time-->

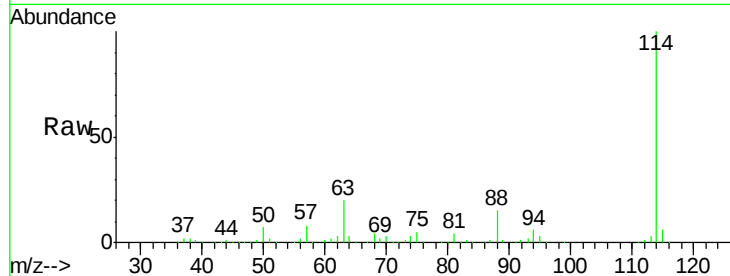




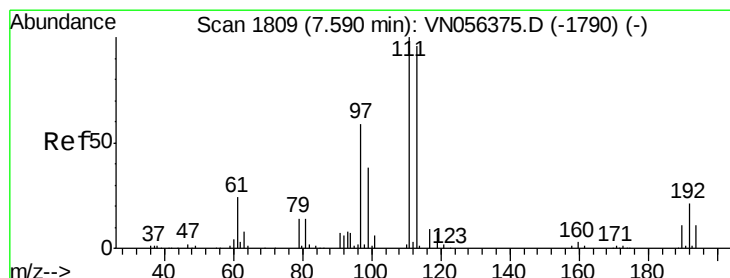
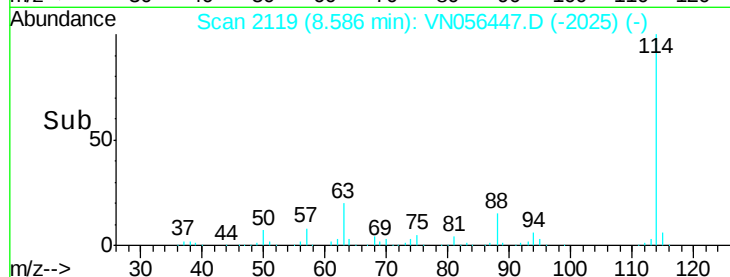
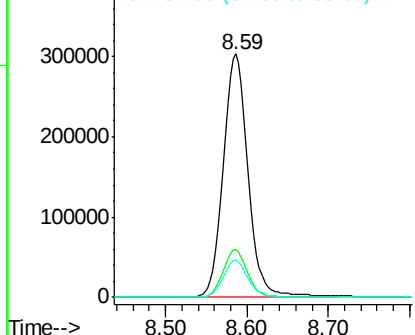
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN056447.D  
 Acq: 24 Jun 2019 11:51

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB120834ZHE#02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.5  | 0.0   | 39.2  |
| 88      | 15.3  | 0.0   | 31.4  |

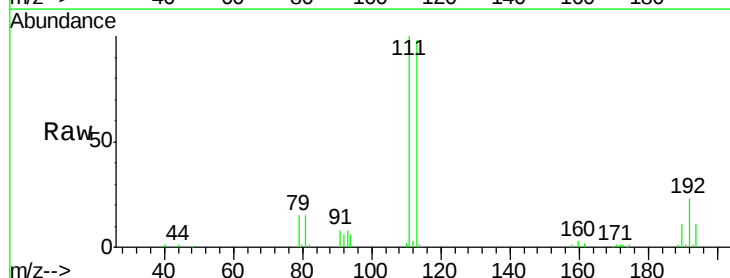


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VNO  
 Ion 87.90 (87.60 to 88.60): VNO

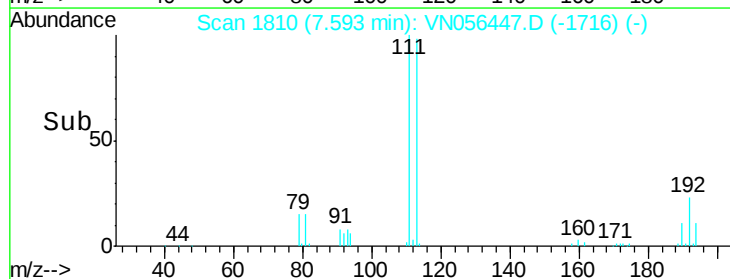
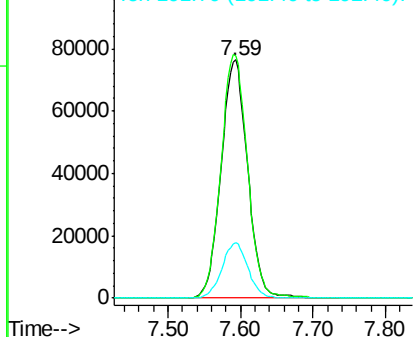


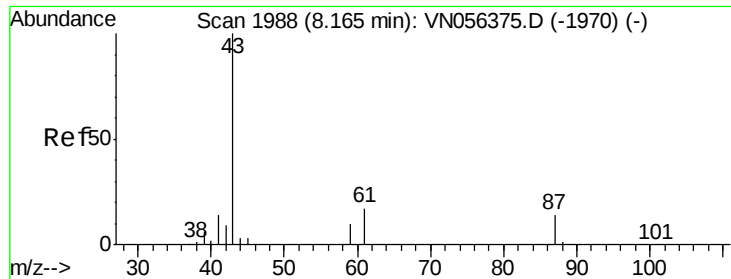
#35  
 Dibromofluoromethane  
 Concen: 47.663 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN056447.D  
 Acq: 24 Jun 2019 11:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.0 | 82.9  | 124.3 |
| 192     | 22.8  | 17.7  | 26.5  |



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: 1.864 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN056447.D

Acq: 24 Jun 2019 11:51

Instrument :

MSVOA\_N

ClientSampleId :

PB120834ZHE#02

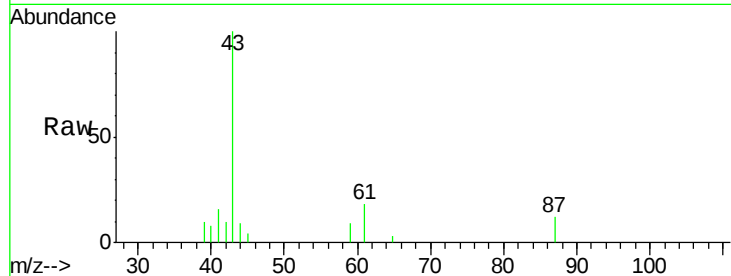
Tot Ion: 43 Resp: 16236

Ion Ratio Lower Upper

43 100

61 9.8 22.0 33.0#

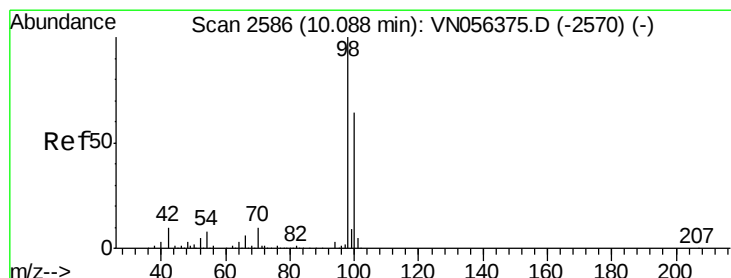
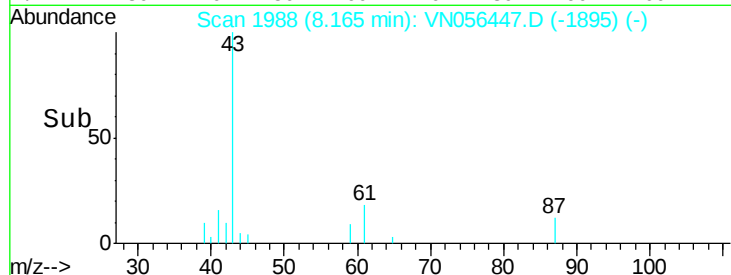
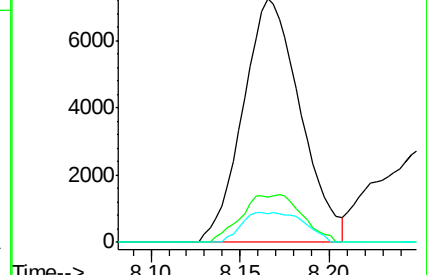
87 13.1 11.0 16.4



Abundance Ion 43.00 (42.70 to 43.70): VN056375.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN056375.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN056375.D (-1970) (-)



#50

Toluene-d8

Concen: 51.697 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056447.D

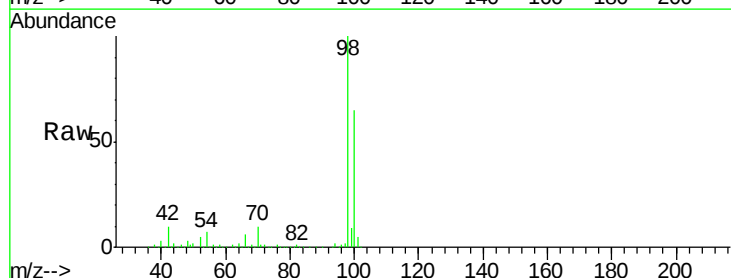
Acq: 24 Jun 2019 11:51

Tgt Ion: 98 Resp: 819329

Ion Ratio Lower Upper

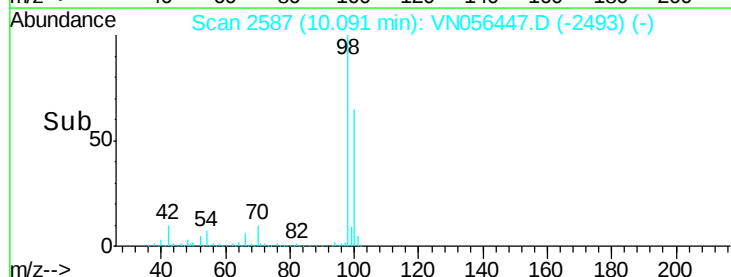
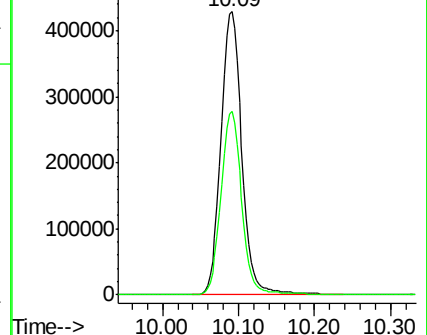
98 100

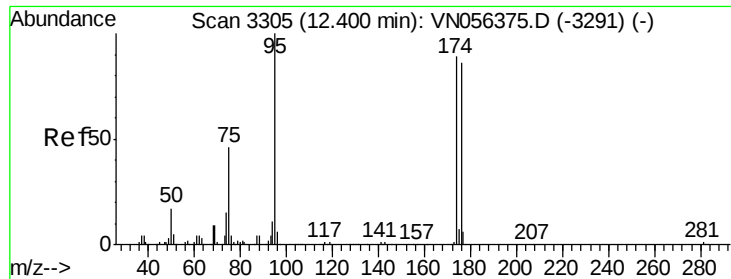
100 64.5 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN056375.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056375.D (-2570) (-)

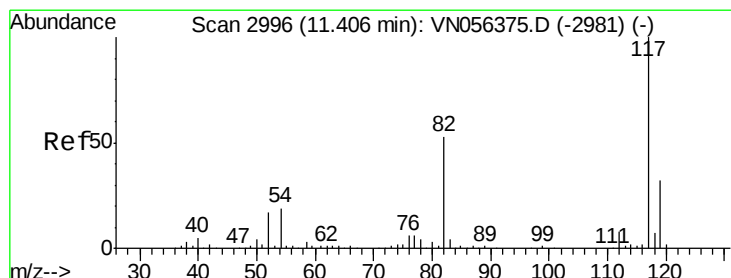
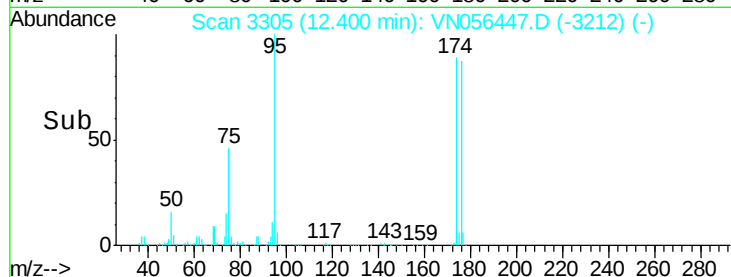
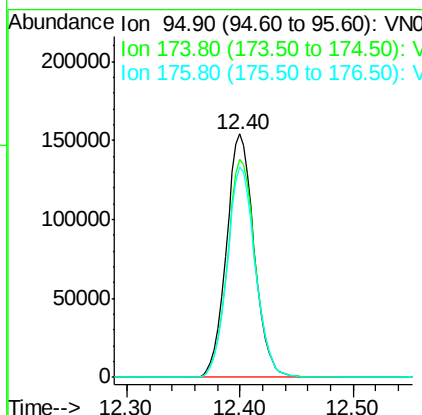
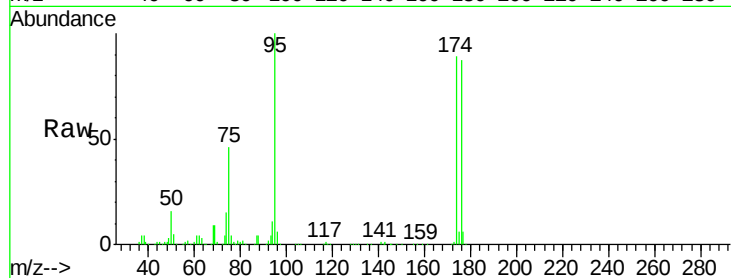




#62  
4-Bromofluorobenzene  
Concen: 49.568 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN056447.D  
Acq: 24 Jun 2019 11:51

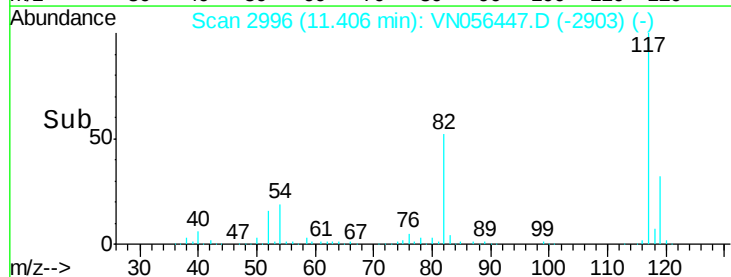
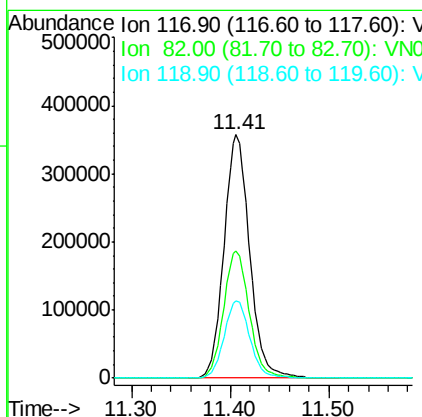
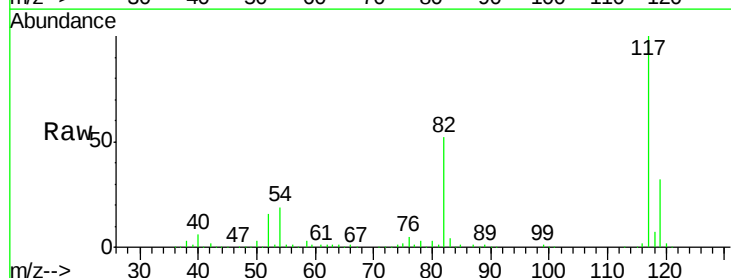
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PB120834ZHE#02

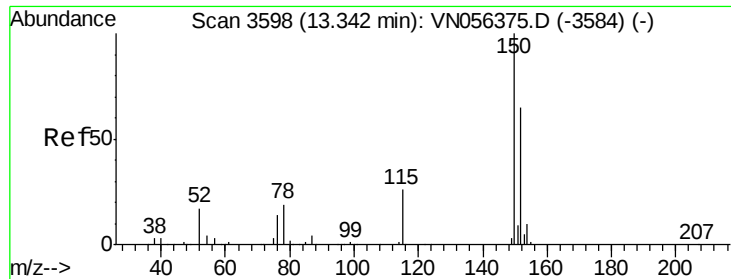
Tot Ion: 95 Resp: 261884  
Ion Ratio Lower Upper  
95 100  
174 90.7 0.0 179.4  
176 87.3 0.0 173.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN056447.D  
Acq: 24 Jun 2019 11:51

Tgt Ion: 117 Resp: 650296  
Ion Ratio Lower Upper  
117 100  
82 52.2 42.0 63.0  
119 31.9 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: VN056447.D

Acq: 24 Jun 2019 11:51

Instrument :

MSVOA\_N

ClientSampleId :

PB120834ZHE#02

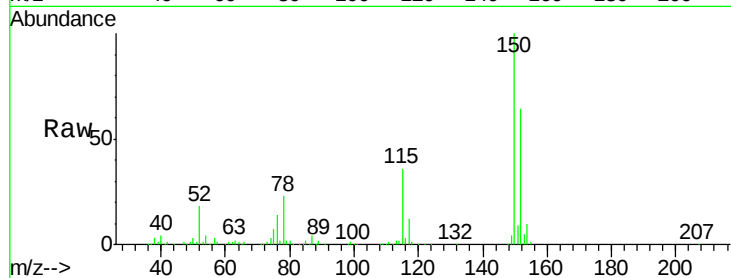
Tot Ion:152 Resp: 187122

Ion Ratio Lower Upper

152 100

115 55.5 28.1 84.4

150 156.3 0.0 348.4



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

