

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\  
 Data File : VN058209.D  
 Acq On : 19 Sep 2019 17:25  
 Operator : JC/SP  
 Sample : K4896-17  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EB01-20190912

Manual Integrations  
 APPROVED

MMDadoda  
 9/20/2019 3:37:40 PM

Quant Time: Sep 20 08:08:45 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  | 506306   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.57  | 114  | 830864   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 701839   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 289735   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 365340   | 51.81  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 103.62% |          |
| 35) Dibromofluoromethane    | 7.58  | 113  | 252418   | 49.97  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 99.94%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 1037572  | 52.72  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 105.44% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 332217   | 45.45  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 90.90%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 3.80  | 43   | 34562    | 14.439 | ug/l    | 92       |
| 20) Methylene Chloride      | 4.54  | 84   | 5220m    | 1.028  | ug/l    |          |
| 52) Toluene                 | 10.15 | 92   | 15154    | 1.321  | ug/l    | 98       |

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

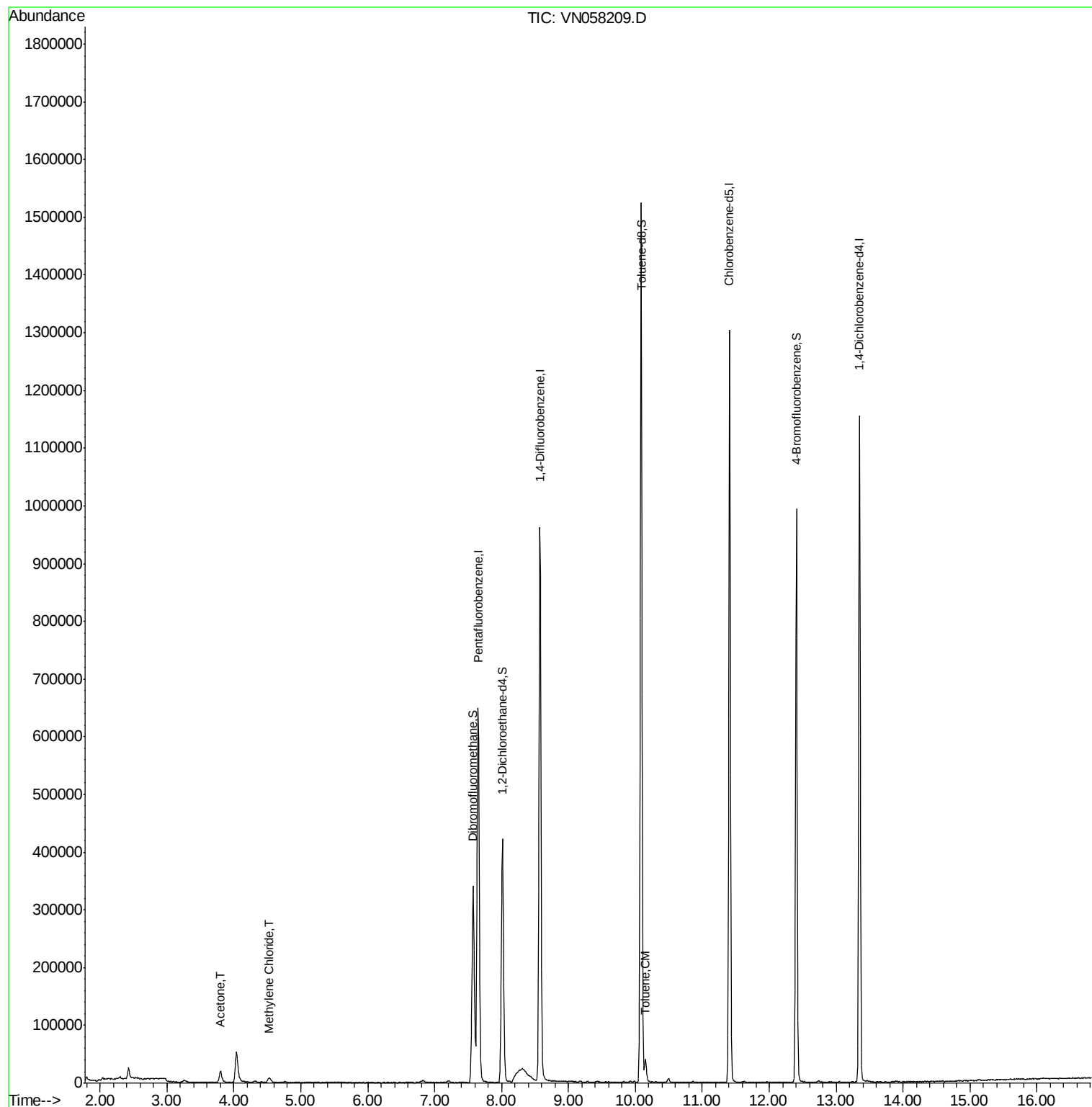
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091919\  
Data File : VN058209.D  
Acq On : 19 Sep 2019 17:25  
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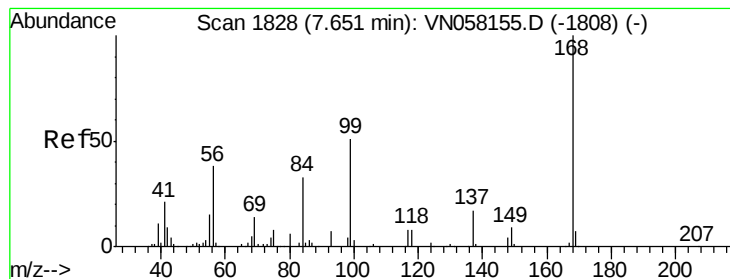
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-20190912

Manual Integrations  
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Quant Time: Sep 20 08:08:45 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
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: VN058209.D

Acq: 19 Sep 2019 17:25

Instrument :

MSVOA\_N

ClientSampleId :

EB01-20190912

Tot Ion:168 Resp: 506306

Ion Ratio Lower Upper

168 100

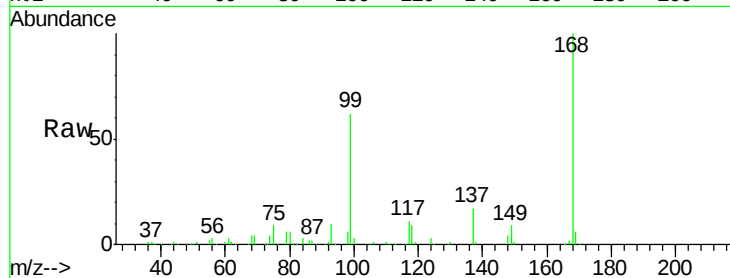
99 61.6 47.4 71.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

250000

200000

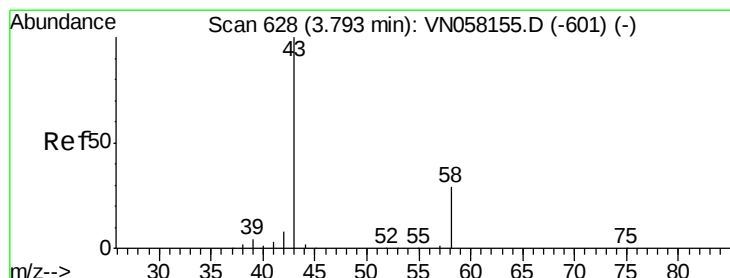
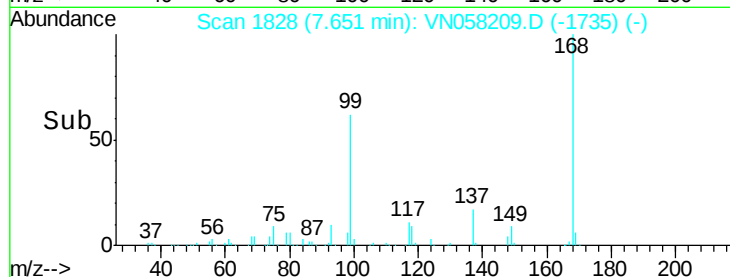
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 14.439 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058209.D

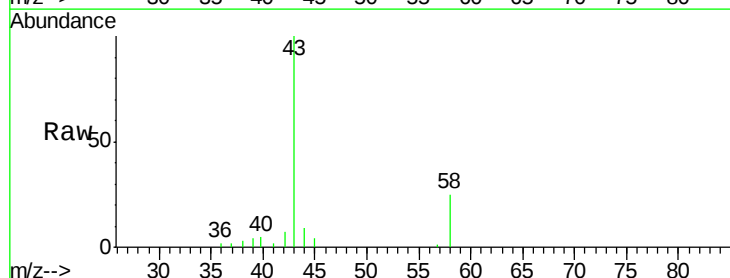
Acq: 19 Sep 2019 17:25

Tgt Ion: 43 Resp: 34562

Ion Ratio Lower Upper

43 100

58 25.3 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.80

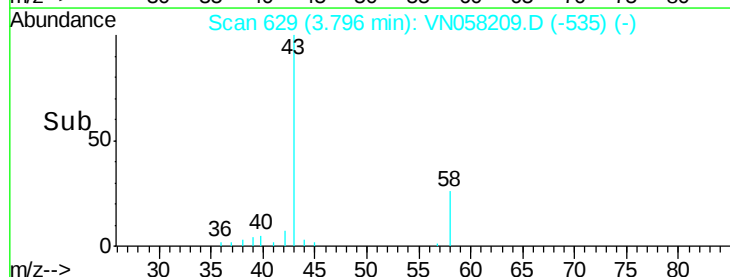
15000

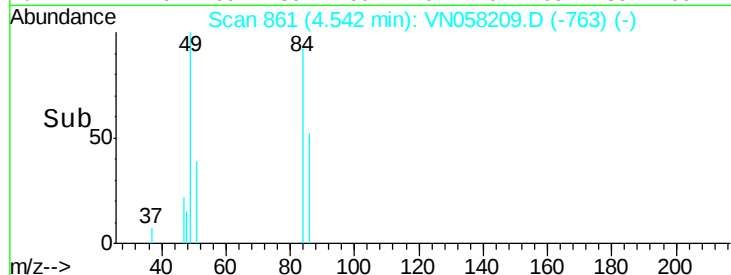
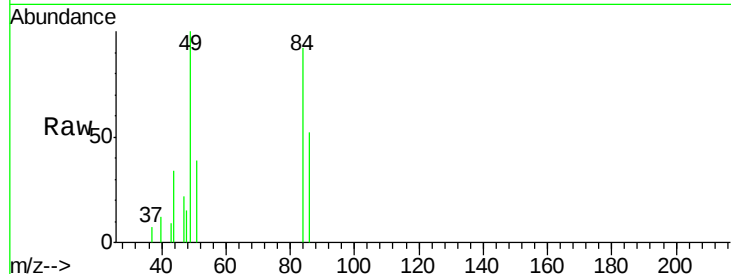
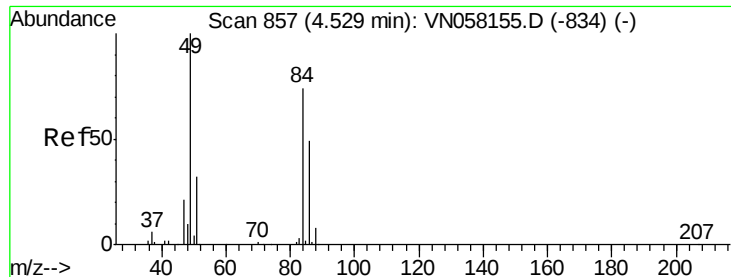
10000

5000

0

Time--> 3.70 3.80 3.90





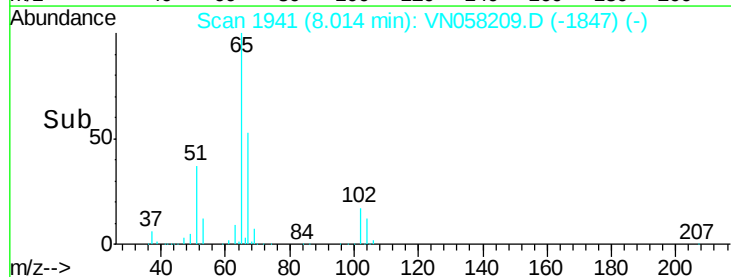
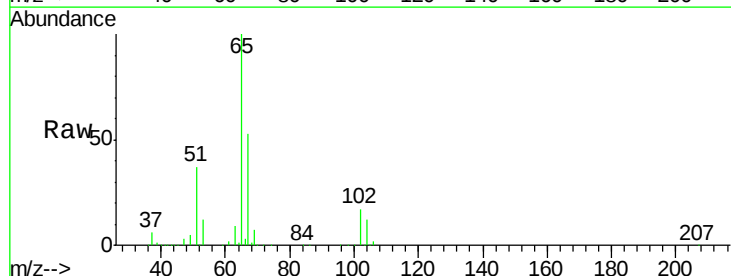
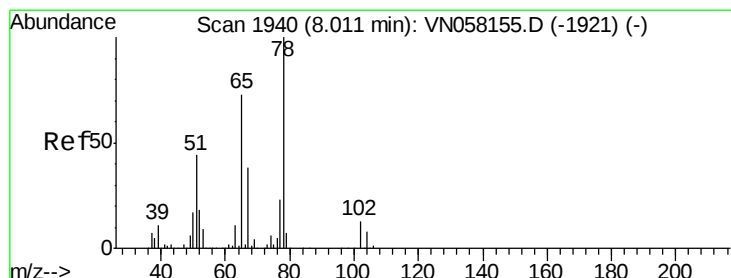
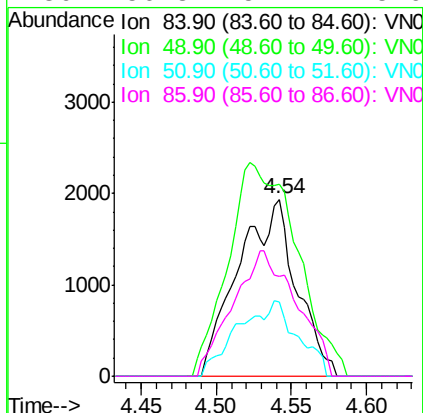
#20  
Methvlene Chloride  
Concen: 1.028 ug/l m  
RT: 4.54 min Scan# 861  
Delta R.T. 0.01 min  
Lab File: VN058209.D  
Acq: 19 Sep 2019 17:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 5220  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 108.4 | 107.5 | 161.3 |
| 51       | 42.1  | 33.9  | 50.9  |
| 86       | 56.3  | 52.4  | 78.6  |

Instrument :  
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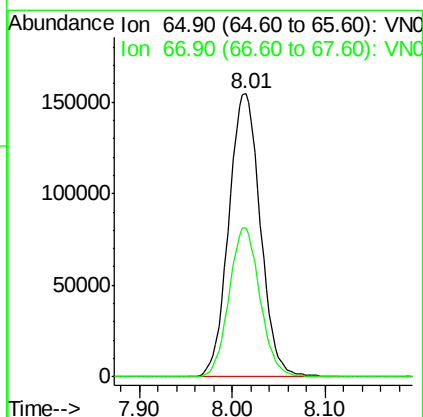
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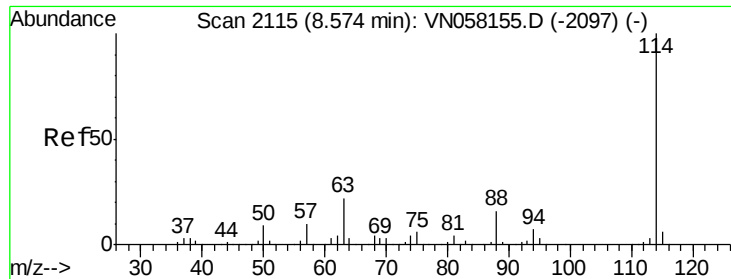
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#33  
1,2-Dichloroethane-d4  
Concen: 51.808 ug/l  
RT: 8.01 min Scan# 1941  
Delta R.T. 0.00 min  
Lab File: VN058209.D  
Acq: 19 Sep 2019 17:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 365340 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 51.6  | 0.0   | 103.4  |





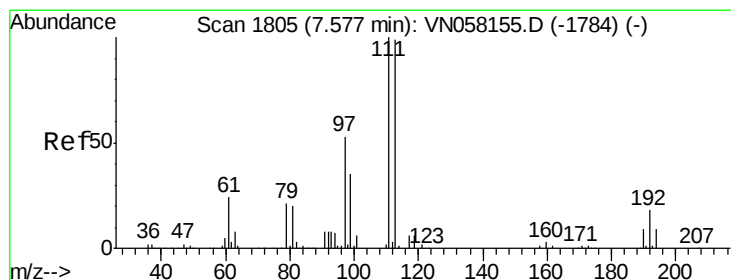
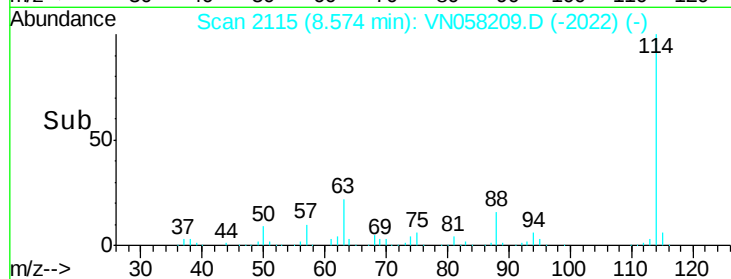
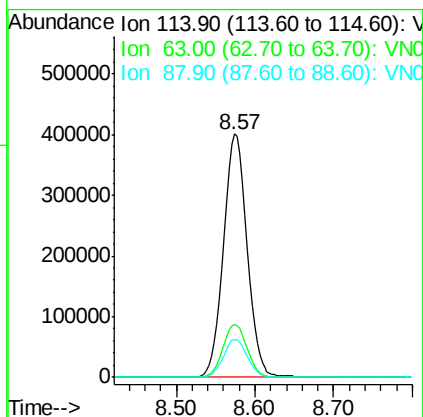
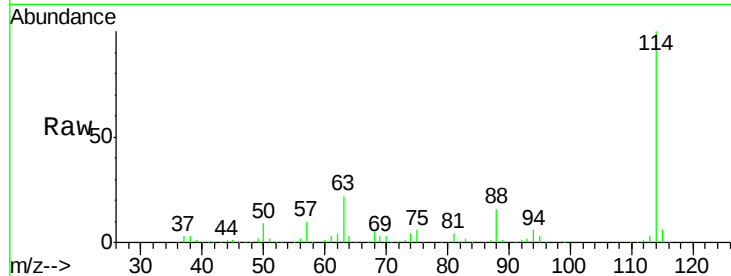
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.57 min Scan# 2115  
Delta R.T. -0.00 min  
Lab File: VN058209.D  
Acq: 19 Sep 2019 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-20190912

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 830864 |       |       |
| 63      | 21.6  | 0.0    | 44.2  |       |
| 88      | 15.6  | 0.0    | 31.6  |       |

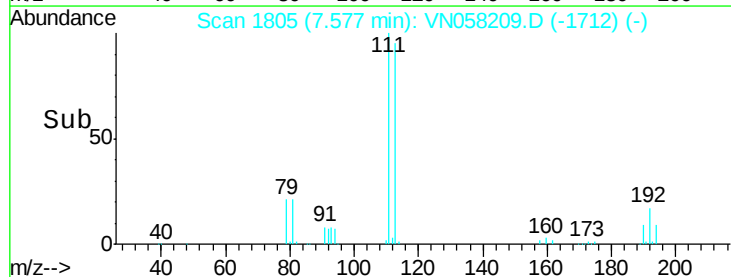
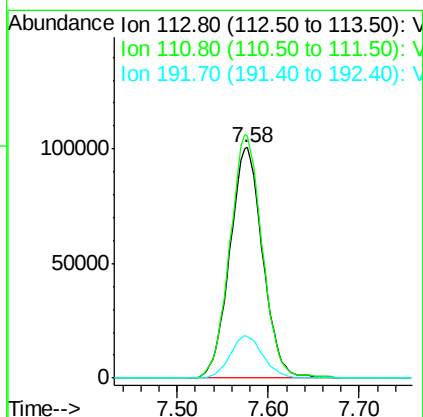
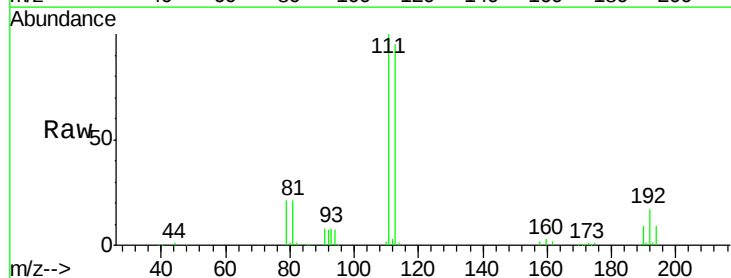
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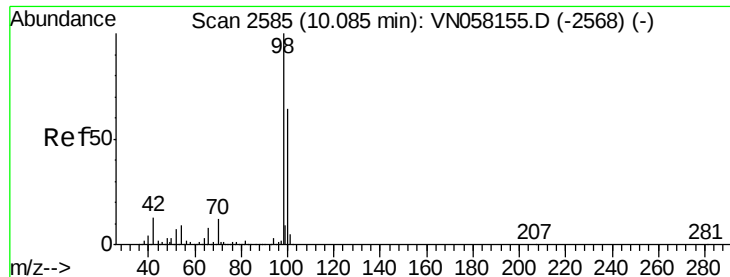
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#35  
Dibromofluoromethane  
Concen: 49.974 ug/l  
RT: 7.58 min Scan# 1805  
Delta R.T. -0.00 min  
Lab File: VN058209.D  
Acq: 19 Sep 2019 17:25

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 252418 |       |       |
| 111     | 104.3 | 81.8   | 122.6 |       |
| 192     | 18.3  | 14.5   | 21.7  |       |





#50

Toluene-d8

Concen: 52.723 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058209.D

Acq: 19 Sep 2019 17:25

Instrument :

MSVOA\_N

ClientSampleId :

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Tot Ion: 98 Resp: 1037572

Ion Ratio Lower Upper

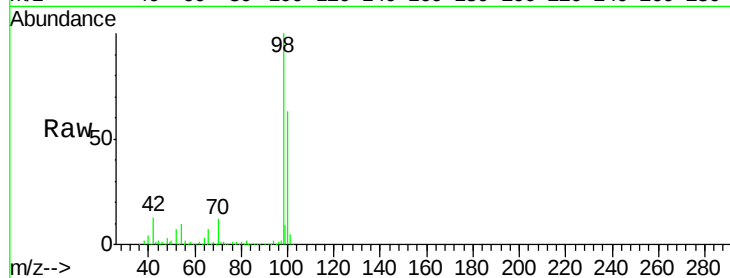
98 100

100 63.7 51.1 76.7

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Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

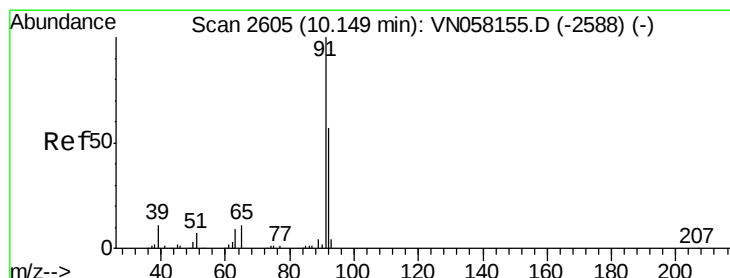
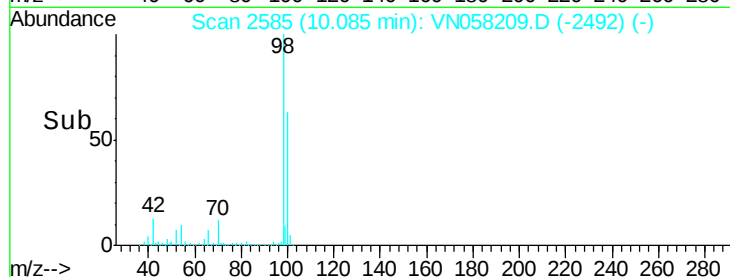
600000

400000

200000

0

Time-->



#52

Toluene

Concen: 1.321 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058209.D

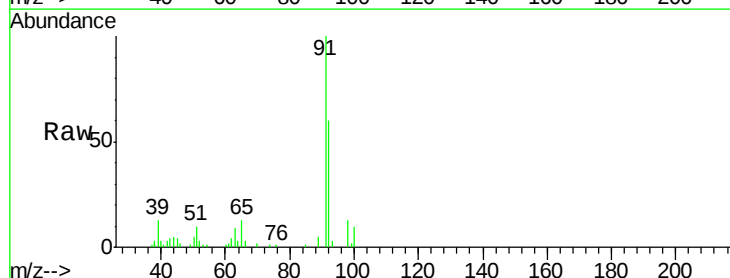
Acq: 19 Sep 2019 17:25

Tgt Ion: 92 Resp: 15154

Ion Ratio Lower Upper

92 100

91 173.1 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

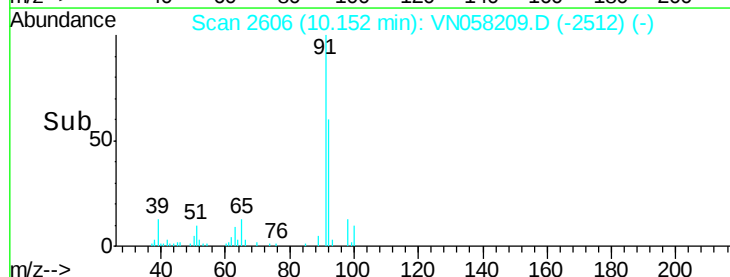
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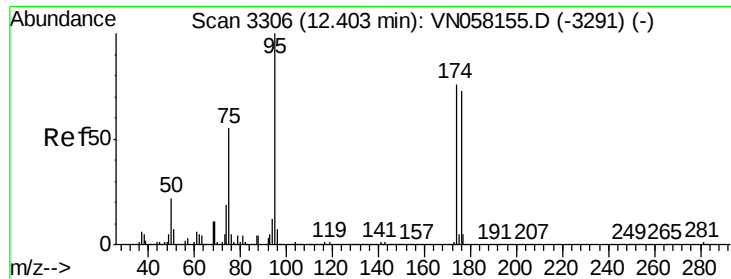
10000

5000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.446 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058209.D

Acq: 19 Sep 2019 17:25

Instrument :

MSVOA\_N

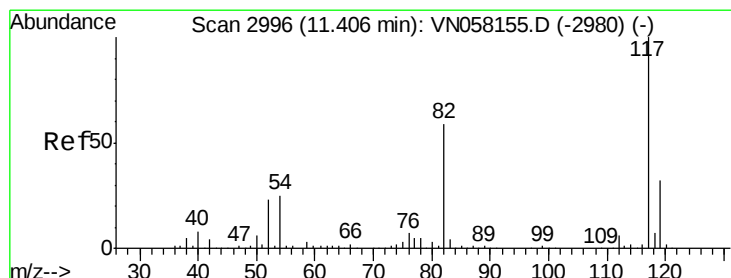
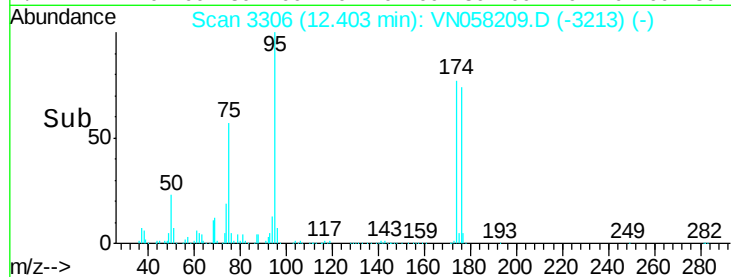
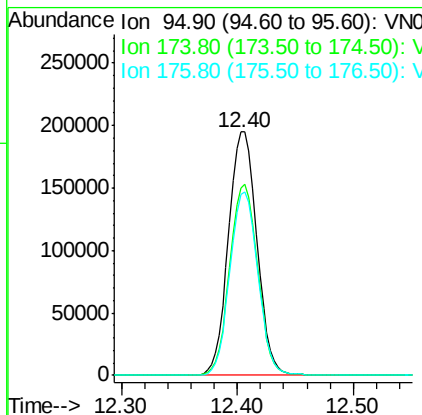
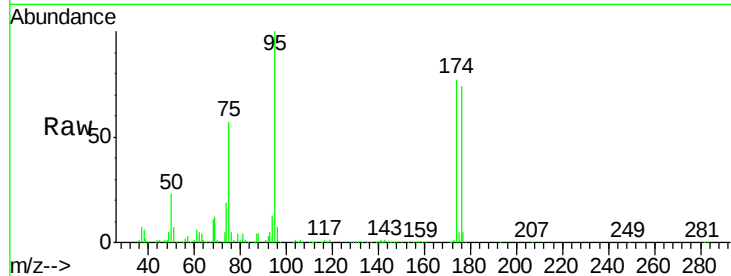
ClientSampleId :

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|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 332217 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 77.2  | 0.0   | 152.2  |
| 176       | 74.0  | 0.0   | 148.0  |

Manual Integrations  
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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

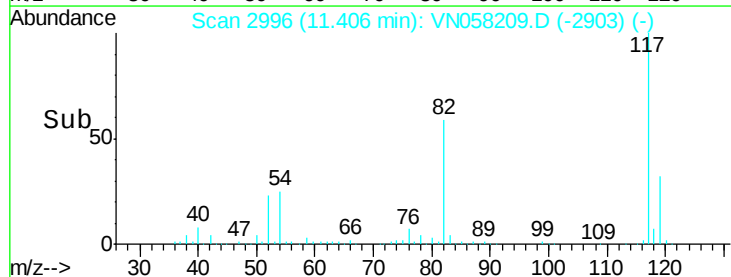
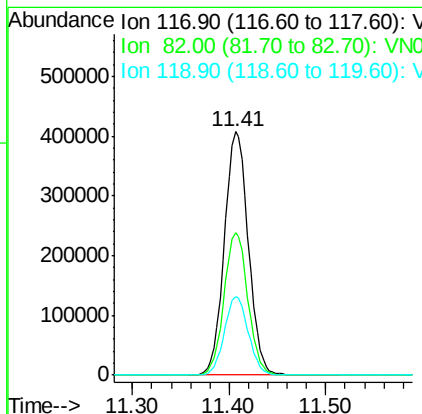
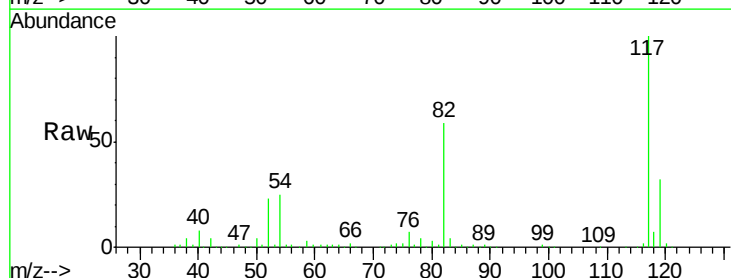
RT: 11.41 min Scan# 2996

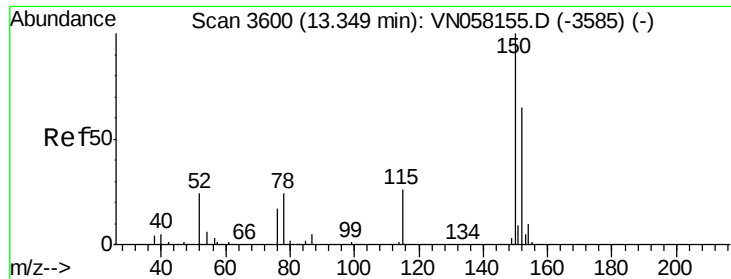
Delta R.T. -0.00 min

Lab File: VN058209.D

Acq: 19 Sep 2019 17:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 701839 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 58.6  | 46.9  | 70.3   |
| 119       | 32.3  | 25.3  | 37.9   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058209.D

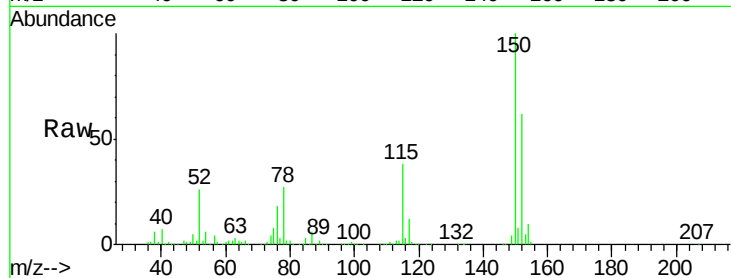
Acq: 19 Sep 2019 17:25

Instrument :

MSVOA\_N

ClientSampleId :

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| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 289735 |       |       |
| 115     | 60.8  | 30.1   | 90.3  |       |
| 150     | 159.4 | 0.0    | 346.4 |       |

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