

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\  
 Data File : VN057805.D  
 Acq On : 9 Sep 2019 16:54  
 Operator : JC/SP  
 Sample : I.BLK  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 I.BLK

Manual Integrations  
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MMDadoda  
 9/10/2019 4:30:23 PM

Quant Time: Sep 10 03:42:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091019W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 10 03:02:13 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 7.65  | 168  | 505542   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.58  | 114  | 828965   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 701191   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 285800   | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 339201   | 33.13 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 66.26% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 241656   | 31.58 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 63.16% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1009544  | 33.99 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 67.98% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 322056   | 28.45 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 56.90% |          |
| Target Compounds            |       |      |          |       |        |          |
| 17) Carbon Disulfide        | 4.03  | 76   | 7574     | 1.060 | ug/l # | 84       |
| 88) 1,4-Dichlorobenzene     | 13.37 | 146  | 8773m    | 0.852 | ug/l   |          |
| 93) 1,2,4-Trichlorobenzene  | 14.91 | 180  | 14701    | 2.218 | ug/l   | 98       |
| 95) Naphthalene             | 15.13 | 128  | 66640    | 2.490 | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene  | 15.30 | 180  | 19421    | 4.288 | ug/l   | 97       |

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

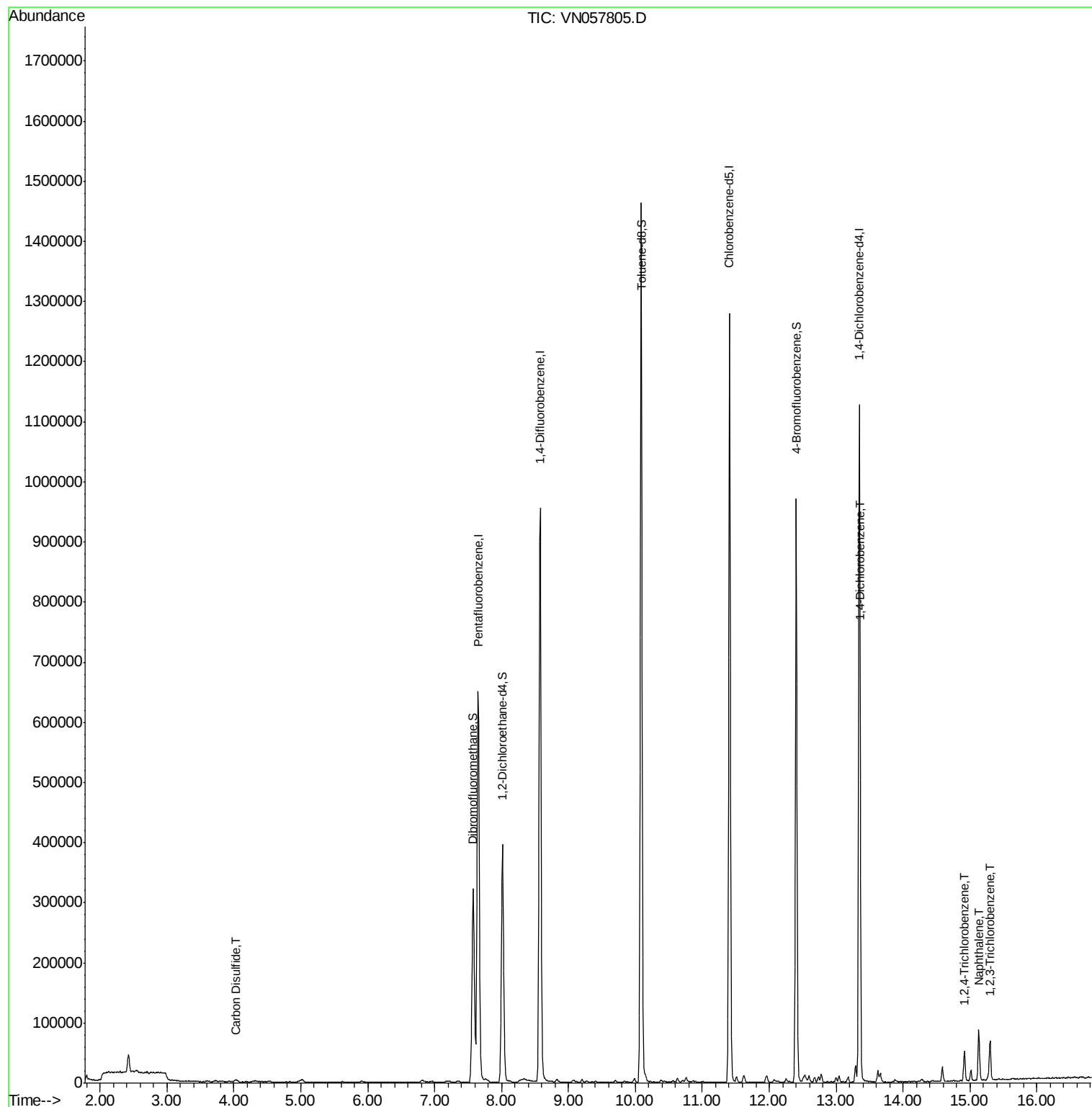
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091019\  
Data File : VN057805.D  
Acq On : 9 Sep 2019 16:54  
Operator : JC/SP  
Sample : I.BLK  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 8 Sample Multiplier: 1

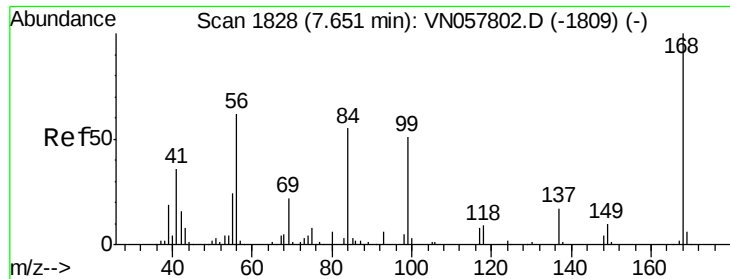
Instrument :  
MSVOA\_N  
ClientSampleId :  
I.BLK

Manual Integrations  
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9/10/2019 4:30:23 PM

Quant Time: Sep 10 03:42:48 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091019W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 10 03:02:13 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: VN057805.D

Acq: 9 Sep 2019 16:54

Instrument :

MSVOA\_N

ClientSampled :

I.BLK

Tot Ion:168 Resp: 505542

Ion Ratio Lower Upper

168 100

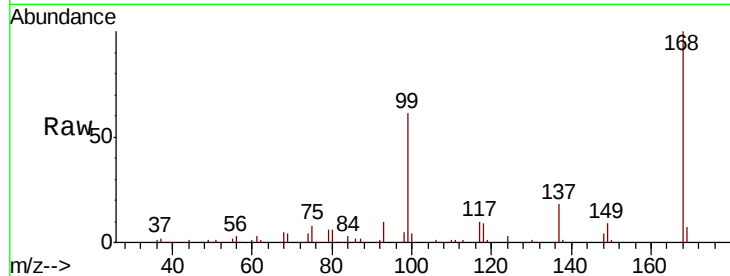
99 60.6 48.0 72.0

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

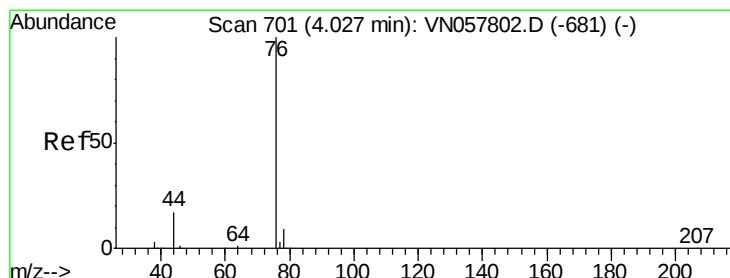
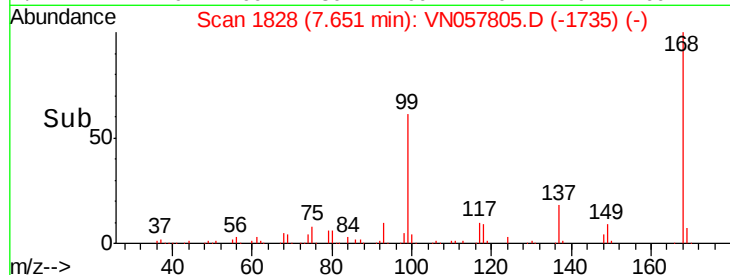
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#17

Carbon Disulfide

Concen: 1.060 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN057805.D

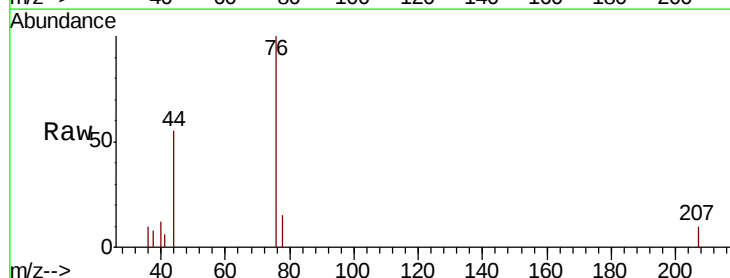
Acq: 9 Sep 2019 16:54

Tgt Ion: 76 Resp: 7574

Ion Ratio Lower Upper

76 100

78 14.6 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.03

3000

2500

2000

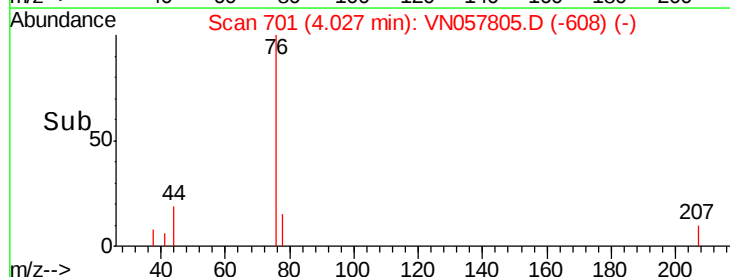
1500

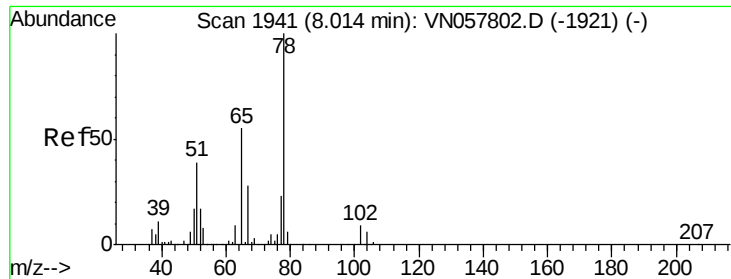
1000

500

0

Time--> 3.95 4.00 4.05 4.10





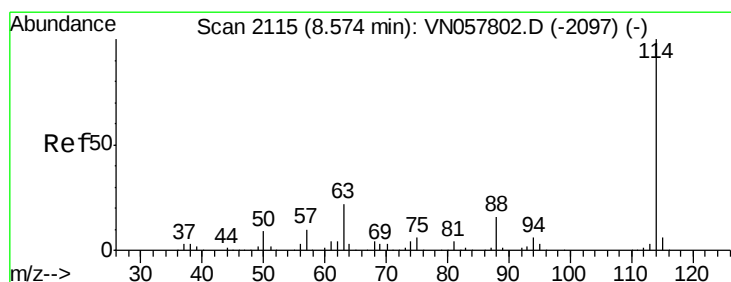
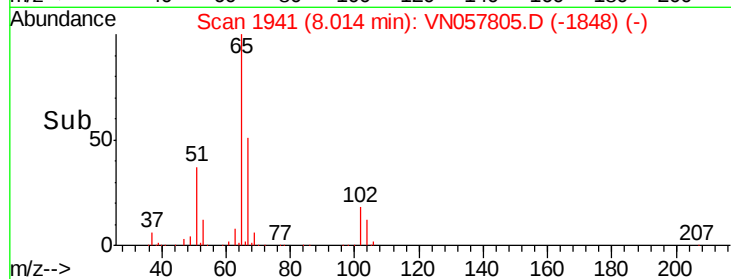
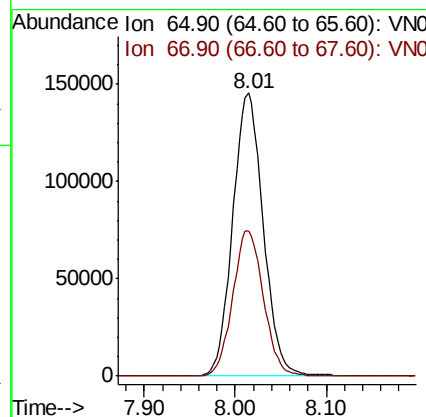
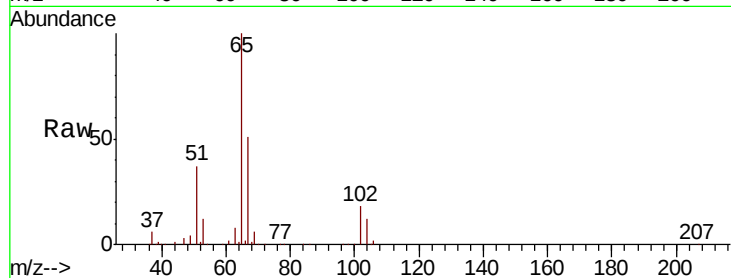
#33  
 1,2-Dichloroethane-d4  
 Concen: 33.127 ug/l  
 RT: 8.01 min Scan# 1941  
 Delta R.T. 0.00 min  
 Lab File: VN057805.D  
 Acq: 9 Sep 2019 16:54

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 I.BLK

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 51.8  | 0.0   | 104.0 |

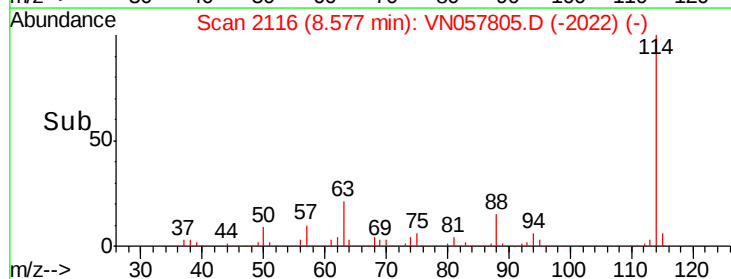
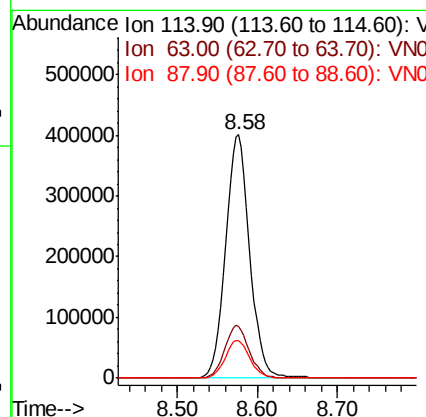
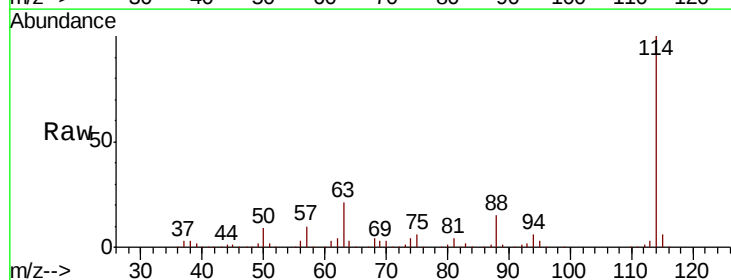
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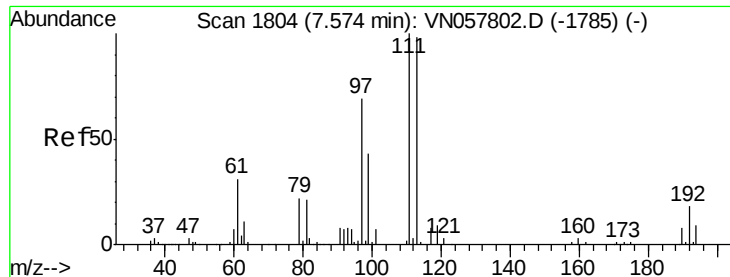
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2116  
 Delta R.T. 0.00 min  
 Lab File: VN057805.D  
 Acq: 9 Sep 2019 16:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.4  | 0.0   | 44.0  |
| 88      | 15.2  | 0.0   | 31.4  |





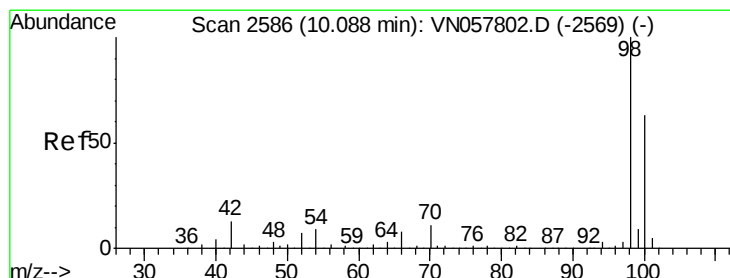
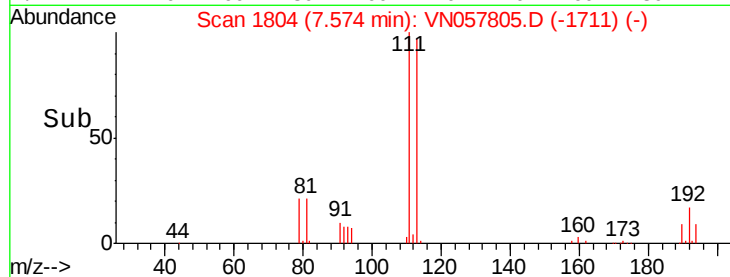
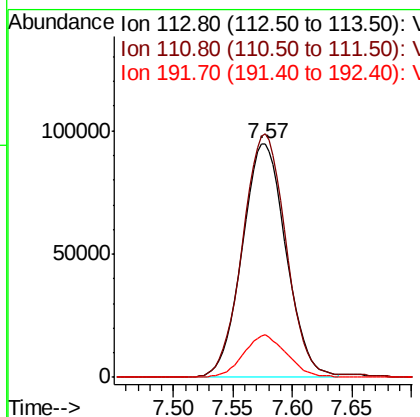
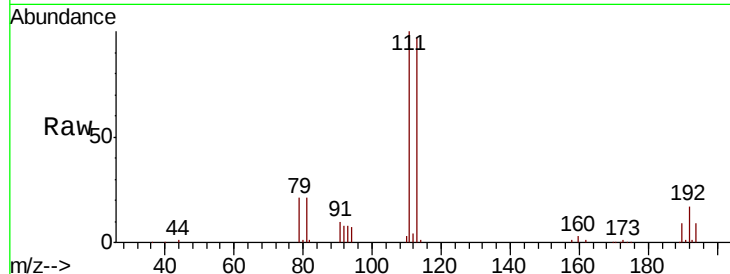
#35  
 Dibromofluoromethane  
 Concen: 31.585 ug/l  
 RT: 7.57 min Scan# 1804  
 Delta R.T. 0.00 min  
 Lab File: VN057805.D  
 Acq: 9 Sep 2019 16:54

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 I.BLK

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 241656 |       |       |
| 111     | 103.6 | 81.3   | 121.9 |       |
| 192     | 17.9  | 14.6   | 22.0  |       |

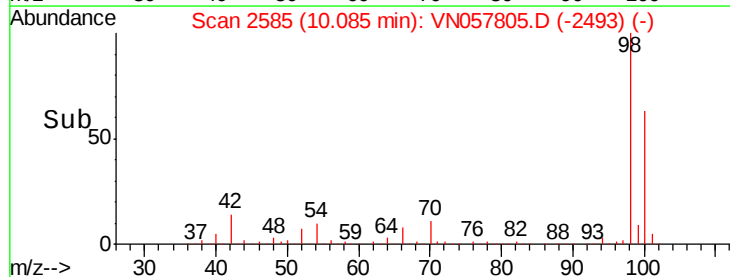
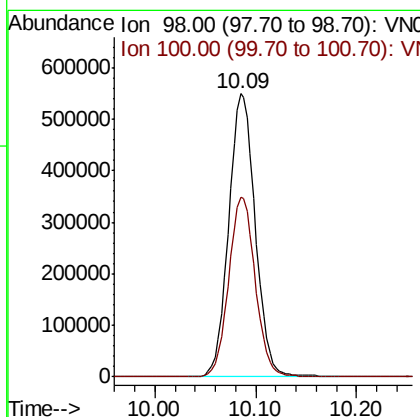
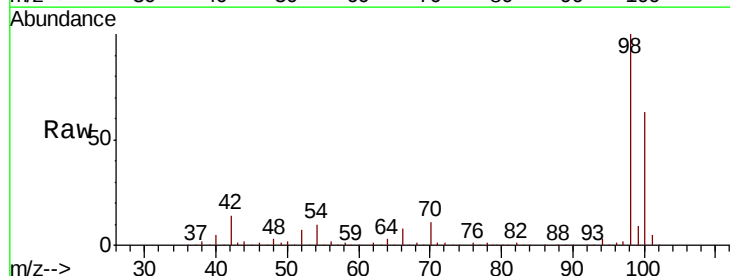
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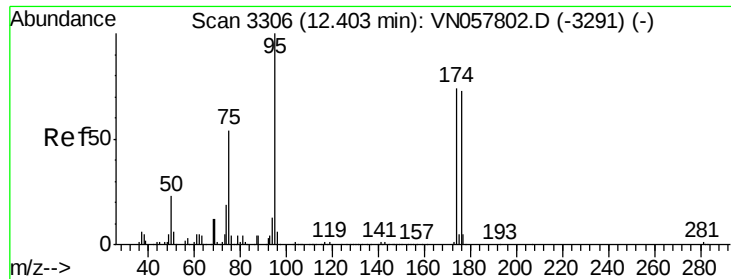
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#50  
 Toluene-d8  
 Concen: 33.985 ug/l  
 RT: 10.09 min Scan# 2585  
 Delta R.T. -0.00 min  
 Lab File: VN057805.D  
 Acq: 9 Sep 2019 16:54

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 98      | 100   | 1009544 |       |       |
| 100     | 63.6  | 50.3    | 75.5  |       |





#62

4-Bromofluorobenzene

Concen: 28.449 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057805.D

Acq: 9 Sep 2019 16:54

Instrument :

MSVOA\_N

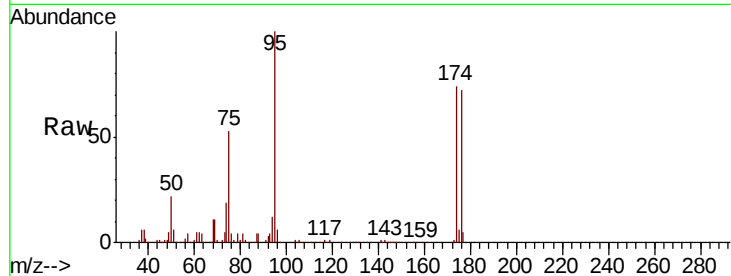
ClientSampled :

I.BLK

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 322056 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 75.7  | 0.0   | 150.2  |
| 176       | 72.8  | 0.0   | 146.0  |

Manual Integrations  
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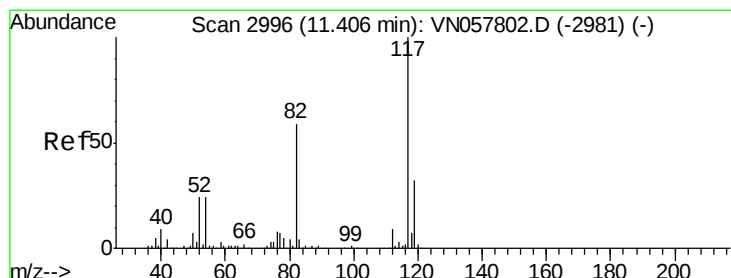
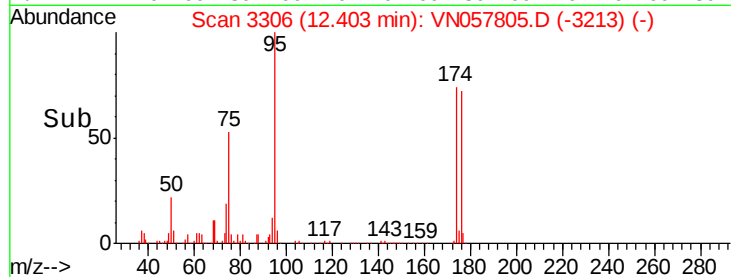
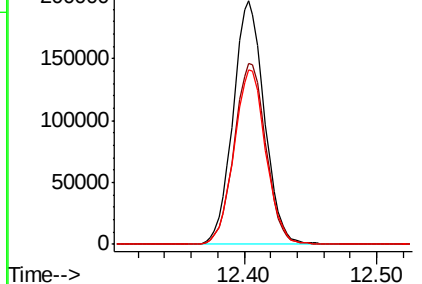


Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

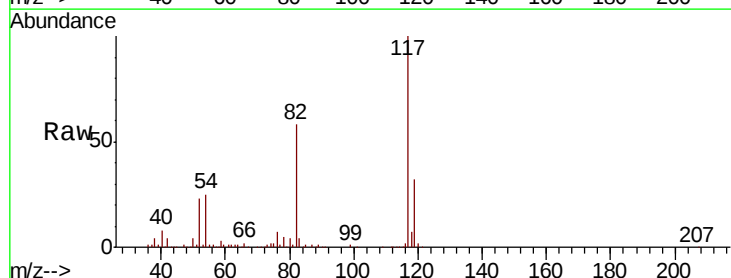
RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057805.D

Acq: 9 Sep 2019 16:54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 701191 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 58.0  | 47.2  | 70.8   |
| 119       | 31.9  | 25.3  | 37.9   |

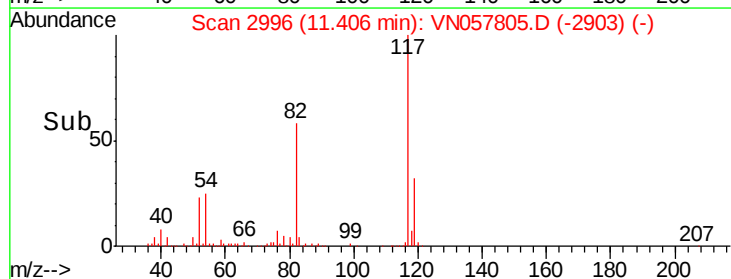
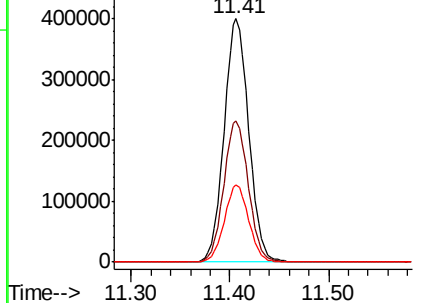


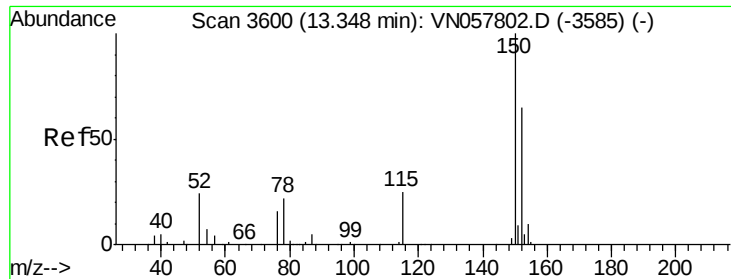
Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

11.41





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057805.D

Acq: 9 Sep 2019 16:54

Instrument :

MSVOA\_N

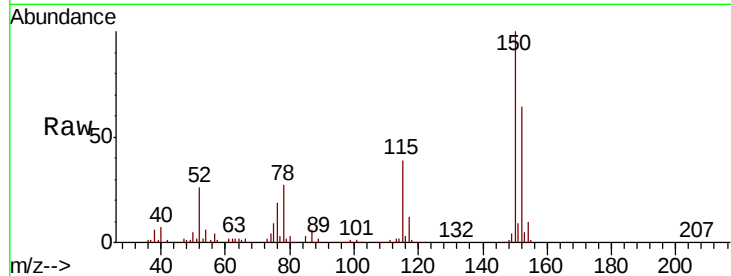
ClientSampleId :

I.BLK

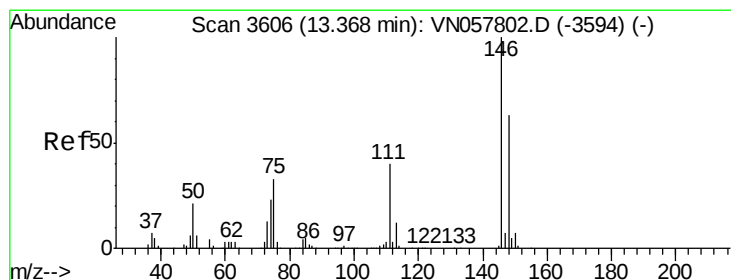
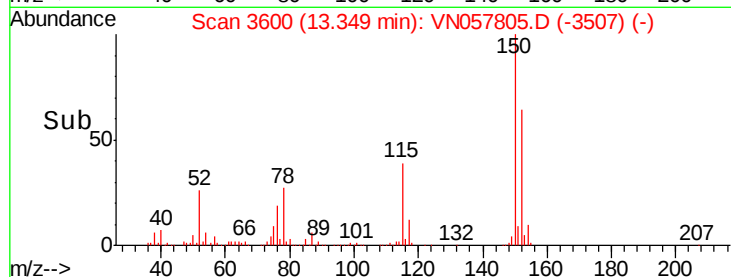
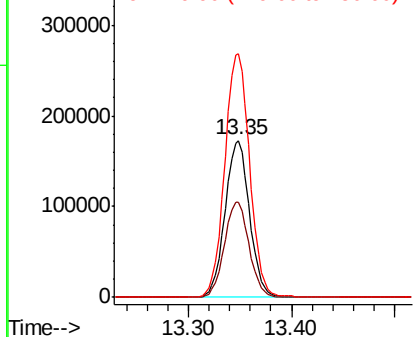
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 285800 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 60.5  | 30.3  | 91.0   |
| 150       | 157.6 | 0.0   | 352.4  |

Manual Integrations  
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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



#88

1,4-Dichlorobenzene

Concen: 0.852 ug/l m

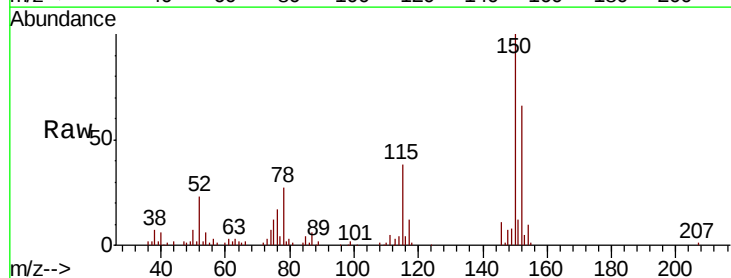
RT: 13.37 min Scan# 3606

Delta R.T. 0.00 min

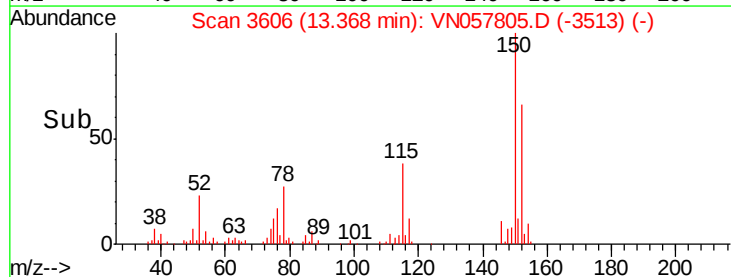
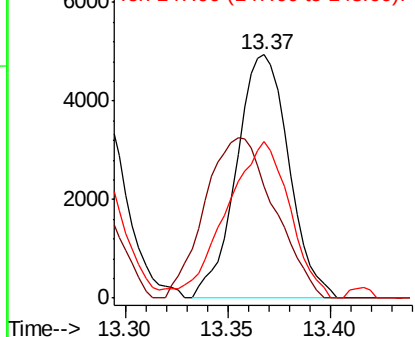
Lab File: VN057805.D

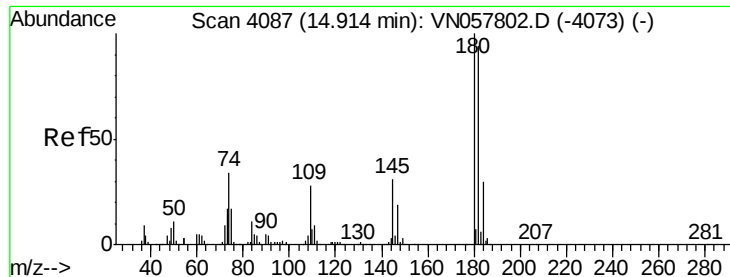
Acq: 9 Sep 2019 16:54

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 146   | Resp: | 8773 |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 32.2  | 20.4  | 61.2 |
| 148       | 49.2  | 31.8  | 95.4 |



Abundance Ion 145.90 (145.60 to 146.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 147.90 (147.60 to 148.60): V





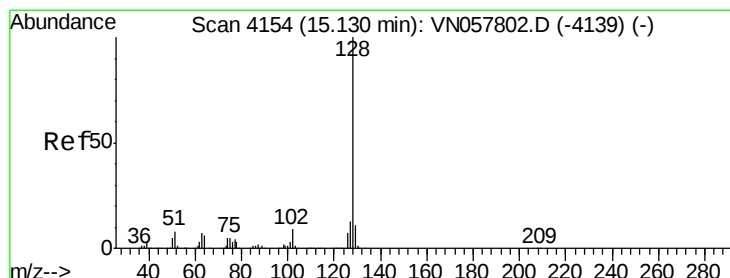
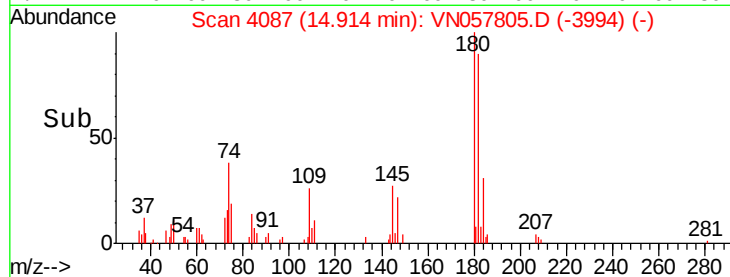
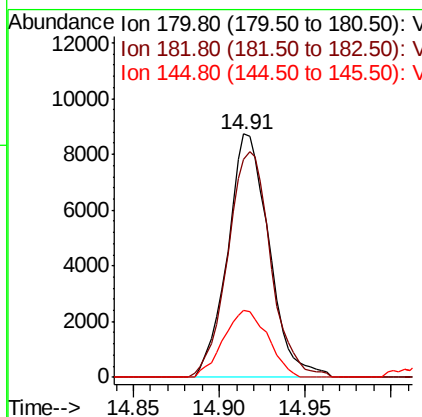
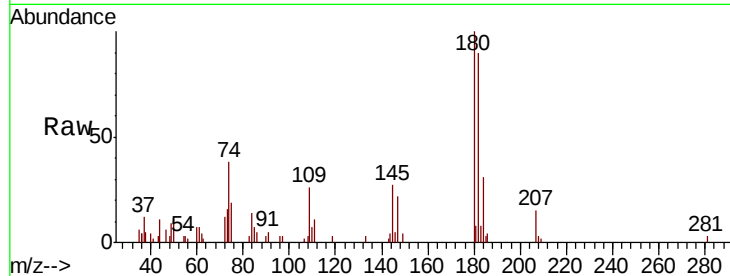
#93  
 1,2,4-Trichlorobenzene  
 Concen: 2.218 ug/l  
 RT: 14.91 min Scan# 4087  
 Delta R.T. 0.00 min  
 Lab File: VN057805.D  
 Acq: 9 Sep 2019 16:54

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 I.BLK

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 180   | Resp: | 14701 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 96.0  | 46.9  | 140.8 |
| 145       | 29.6  | 14.9  | 44.7  |

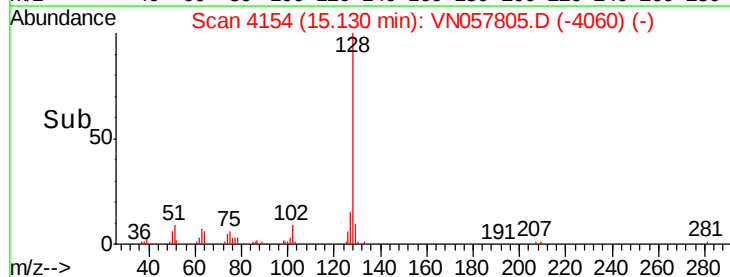
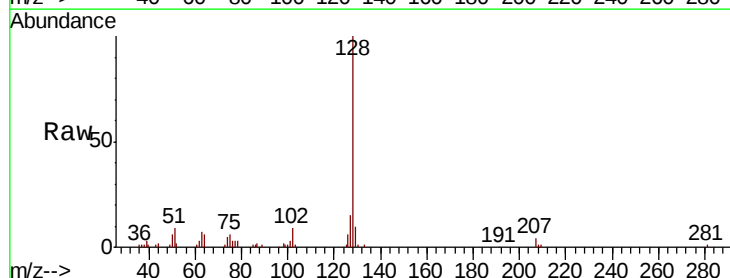
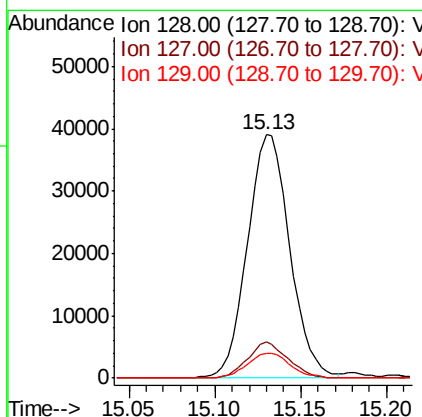
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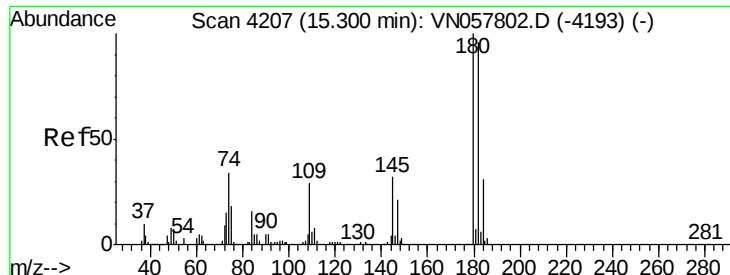
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#95  
 Naphthalene  
 Concen: 2.490 ug/l  
 RT: 15.13 min Scan# 4154  
 Delta R.T. 0.00 min  
 Lab File: VN057805.D  
 Acq: 9 Sep 2019 16:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 66640 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 14.1  | 10.3  | 15.5  |
| 129       | 10.2  | 8.6   | 12.8  |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 4.288 ug/l  
 RT: 15.30 min Scan# 4207  
 Delta R.T. 0.00 min  
 Lab File: VN057805.D  
 Acq: 9 Sep 2019 16:54

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 I.BLK

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.2  | 48.3  | 144.8 |
| 145     | 28.9  | 16.3  | 48.8  |

Manual Integrations  
 APPROVED

MMDadoda  
 9/10/2019 4:30:23 PM

