

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082619\  
 Data File : VN057501.D  
 Acq On : 26 Aug 2019 10:49  
 Operator : JC/SP  
 Sample : PB122524TB  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB122524TB

Manual Integrations  
 APPROVED

MMDadoda  
 8/27/2019 5:30:25 PM

Quant Time: Aug 26 12:06:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N082219W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 23 05:07:29 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 7.65  | 168  | 421364   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.57  | 114  | 707915   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.40 | 117  | 594153   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 146911   | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 343133   | 46.29 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 92.58% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 231423   | 48.40 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.80% |          |
| 50) Toluene-d8              | 10.08 | 98   | 903712   | 49.98 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.96% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 246465   | 40.22 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 80.44% |          |
| Target Compounds            |       |      |          |       |        |          |
| 20) Methylene Chloride      | 4.53  | 84   | 4649m    | 0.848 | ug/l   |          |
| 43) Isopropyl Acetate       | 8.16  | 43   | 109824   | 8.380 | ug/l   | 99       |

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

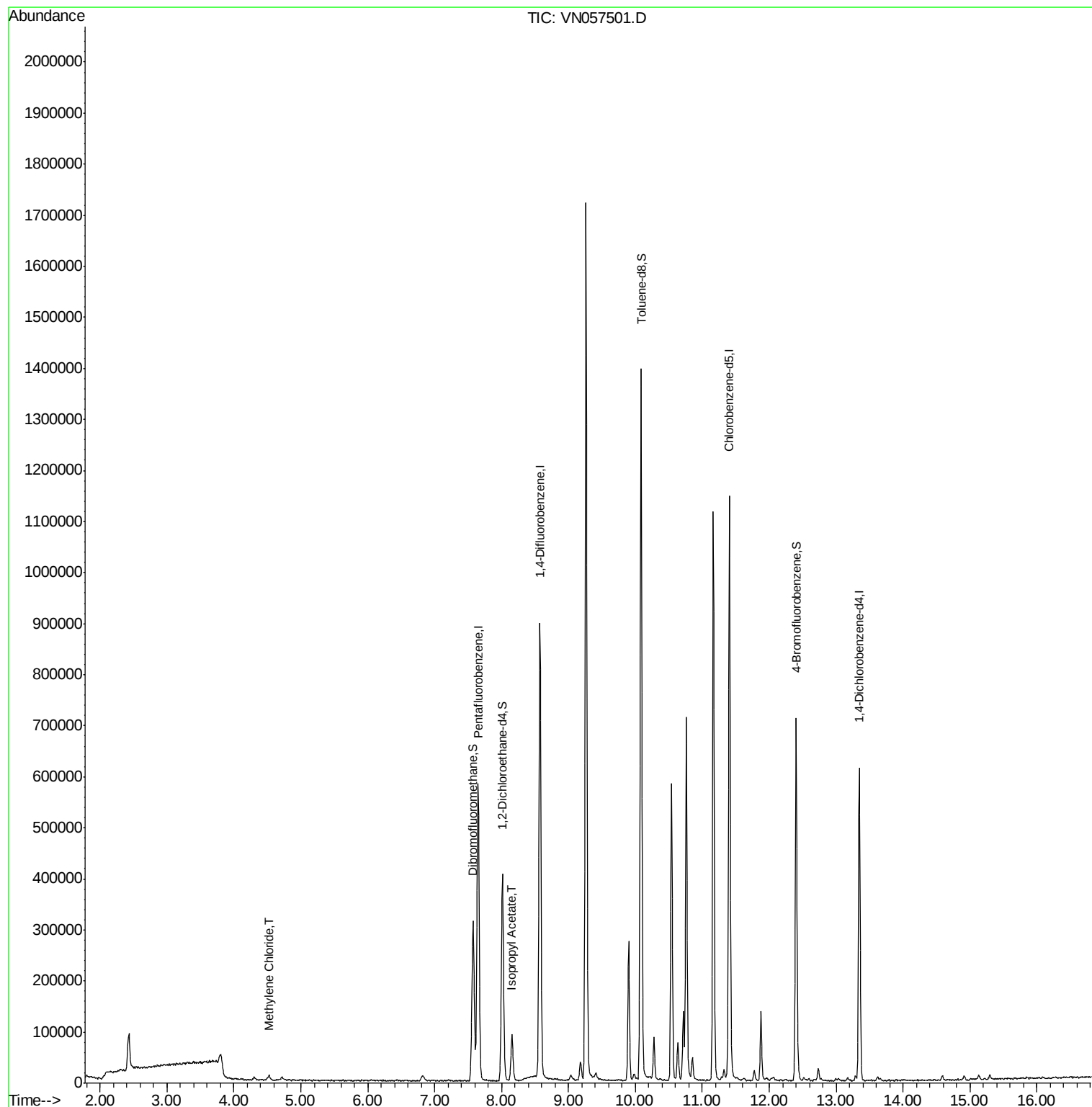
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN082619\  
Data File : VN057501.D  
Acq On : 26 Aug 2019 10:49  
Operator : JC/SP  
Sample : PB122524TB  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 5 Sample Multiplier: 1

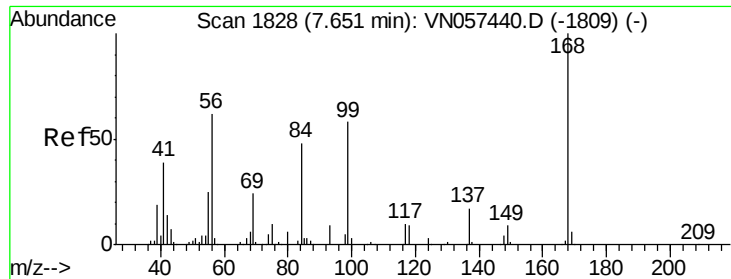
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB122524TB

Manual Integrations  
APPROVED

MMDadoda  
8/27/2019 5:30:25 PM

Quant Time: Aug 26 12:06:00 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N082219W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 23 05:07:29 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: VN057501.D

Acq: 26 Aug 2019 10:49

Instrument :

MSVOA\_N

ClientSampleId :

PB122524TB

Tot Ion:168 Resp: 421364

Ion Ratio Lower Upper

168 100

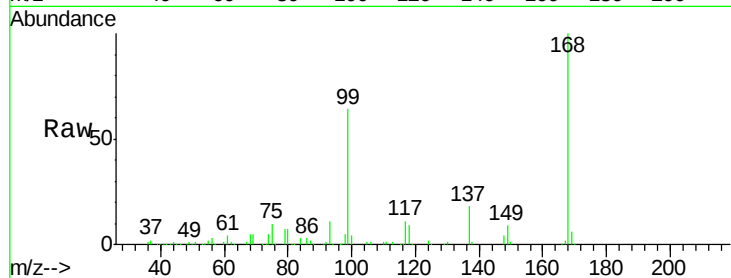
99 64.1 50.6 76.0

Manual Integrations

APPROVED

MMDadoda

8/27/2019 5:30:25 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

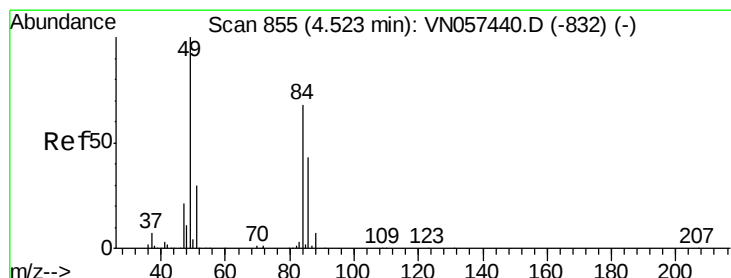
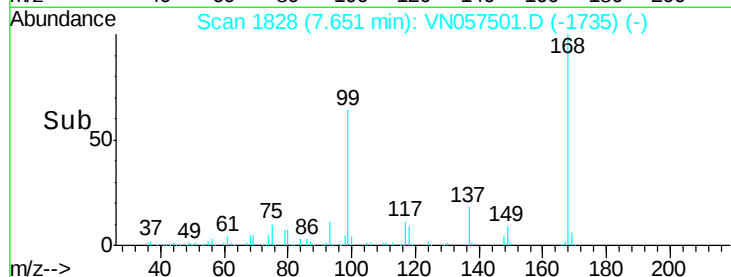
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#20

Methylene Chloride

Concen: 0.848 ug/l m

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

Lab File: VN057501.D

Acq: 26 Aug 2019 10:49

Tgt Ion: 84 Resp: 4649

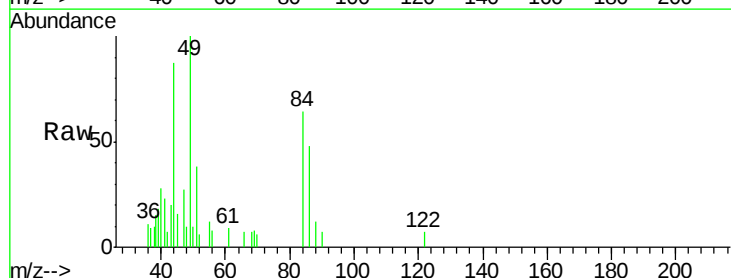
Ion Ratio Lower Upper

84 100

49 155.3 117.0 175.4

51 58.9 35.5 53.3#

86 74.7 49.8 74.8



Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

4000

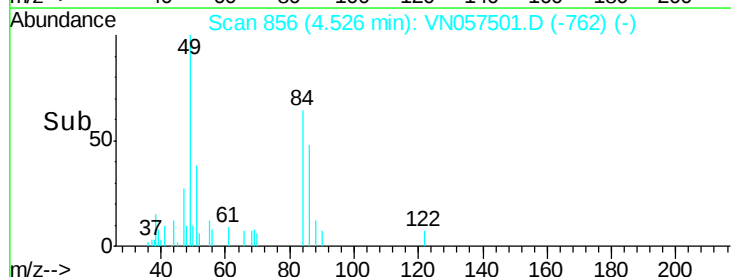
3000

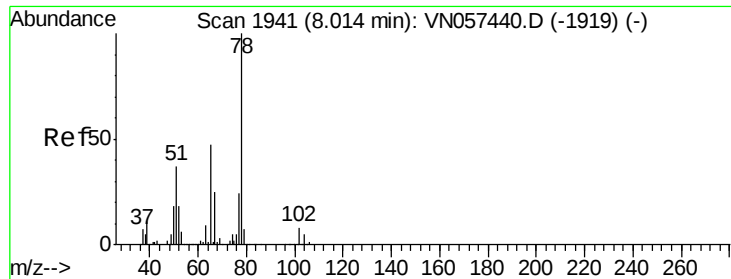
2000

1000

0

Time--> 4.45 4.50 4.55 4.60 4.65





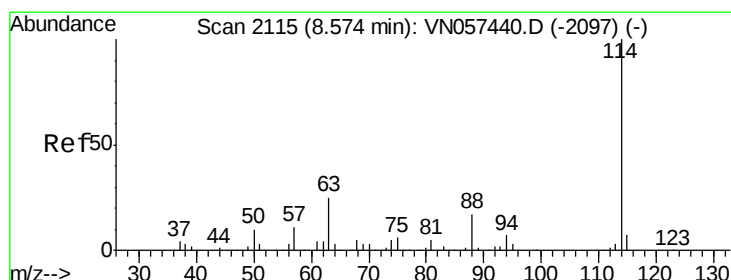
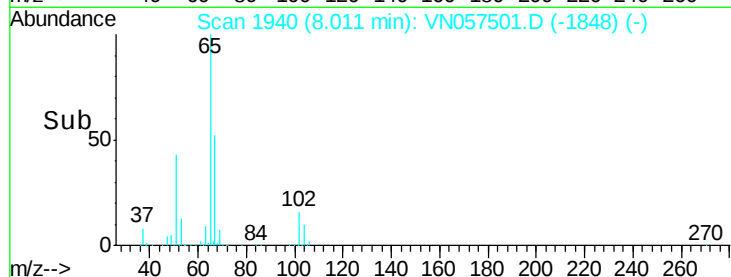
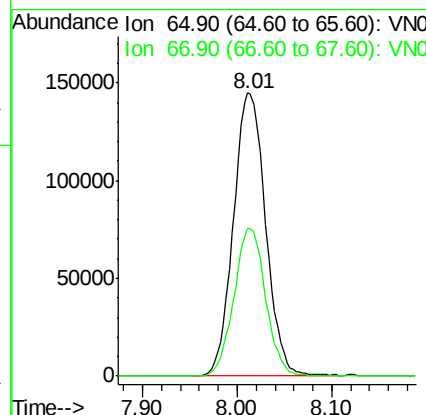
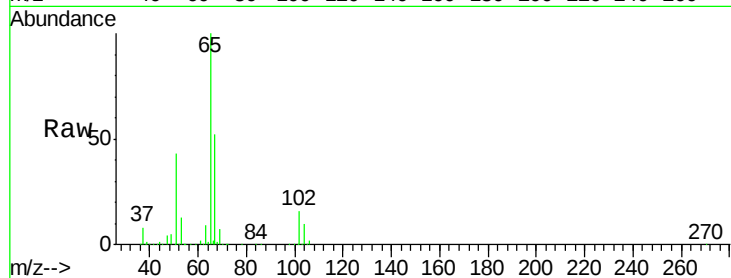
#33  
 1,2-Dichloroethane-d4  
 Concen: 46.292 ug/l  
 RT: 8.01 min Scan# 1940  
 Delta R.T. -0.00 min  
 Lab File: VN057501.D  
 Acq: 26 Aug 2019 10:49

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB122524TB

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 65      | 100   |      |       |       |
| 67      | 51.5  | 0.0  | 103.8 |       |

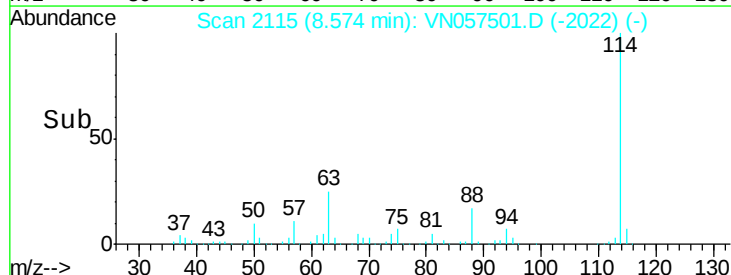
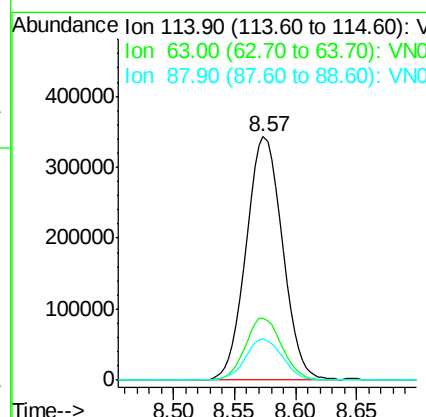
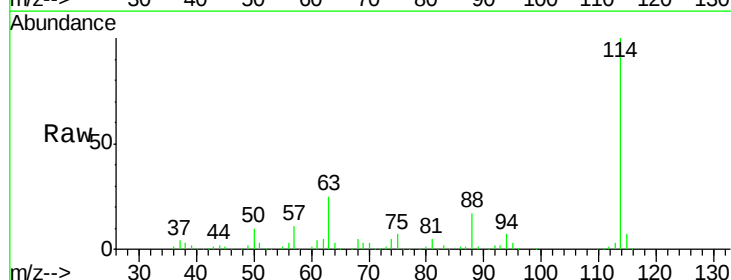
Manual Integrations  
 APPROVED

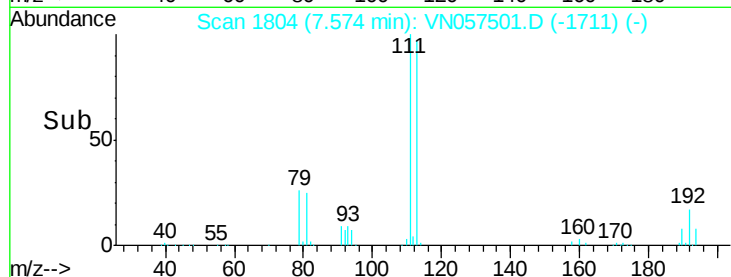
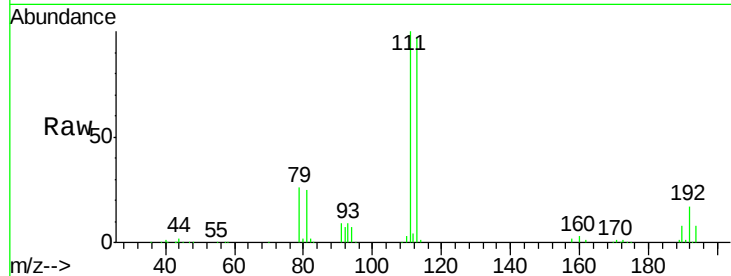
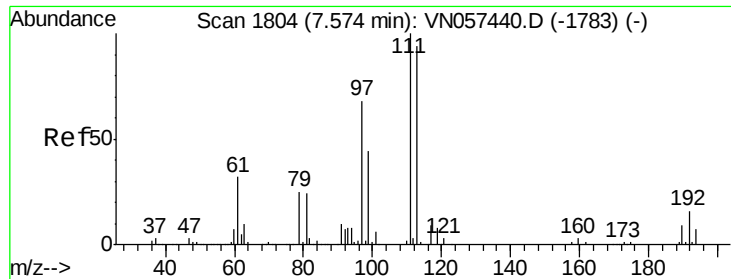
MMDadoda  
 8/27/2019 5:30:25 PM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. -0.00 min  
 Lab File: VN057501.D  
 Acq: 26 Aug 2019 10:49

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 114     | 100   |      |       |       |
| 63      | 25.4  | 0.0  | 50.2  |       |
| 88      | 16.8  | 0.0  | 34.6  |       |





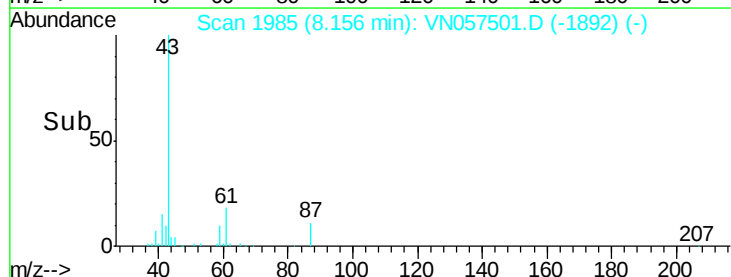
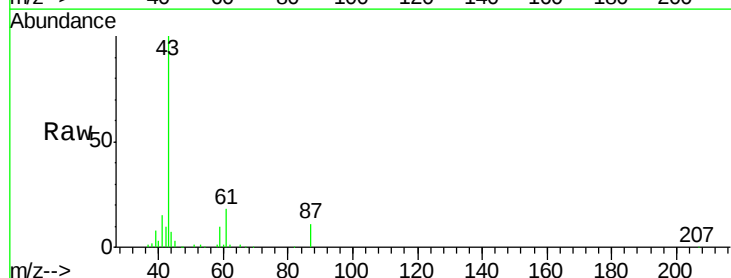
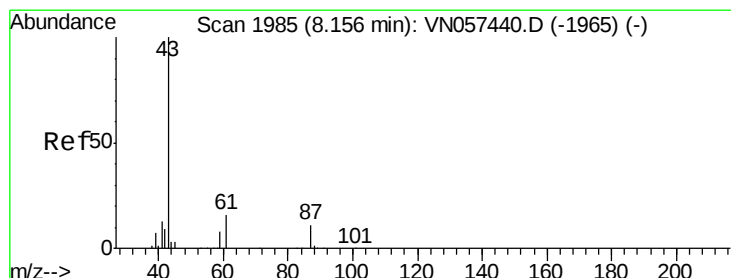
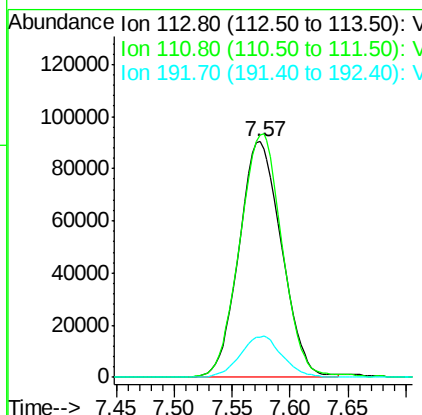
#35  
Dibromofluoromethane  
Concen: 48.398 ug/l  
RT: 7.57 min Scan# 1804  
Delta R.T. -0.00 min  
Lab File: VN057501.D  
Acq: 26 Aug 2019 10:49

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 231423 |       |       |
| 111     | 103.2 | 83.8   | 125.6 |       |
| 192     | 17.2  | 13.5   | 20.3  |       |

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB122524TB

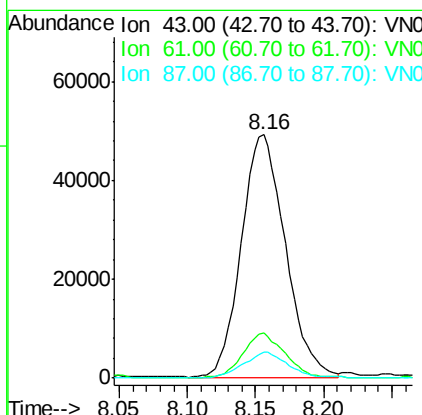
Manual Integrations  
APPROVED

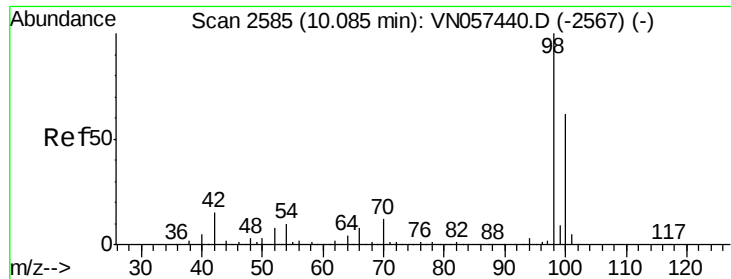
MMDadoda  
8/27/2019 5:30:25 PM



#43  
Isopropyl Acetate  
Concen: 8.380 ug/l  
RT: 8.16 min Scan# 1985  
Delta R.T. -0.00 min  
Lab File: VN057501.D  
Acq: 26 Aug 2019 10:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 43      | 100   | 109824 |       |       |
| 61      | 17.8  | 14.5   | 21.7  |       |
| 87      | 10.9  | 8.6    | 12.8  |       |





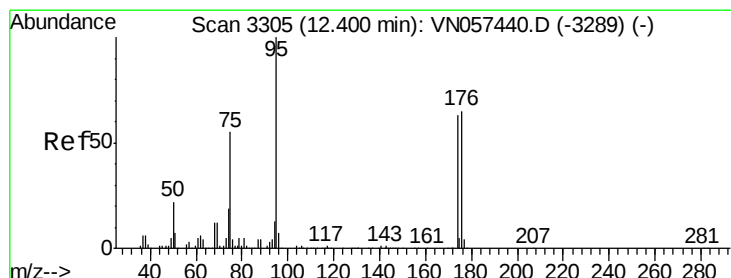
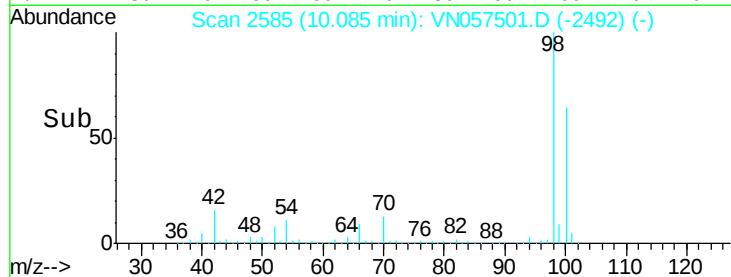
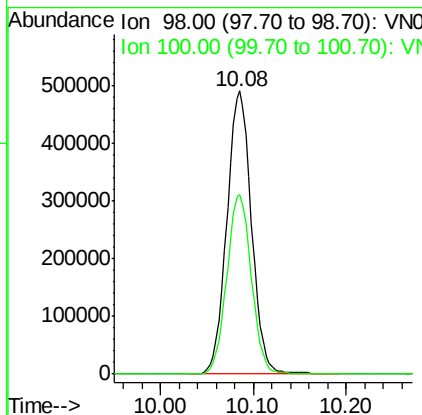
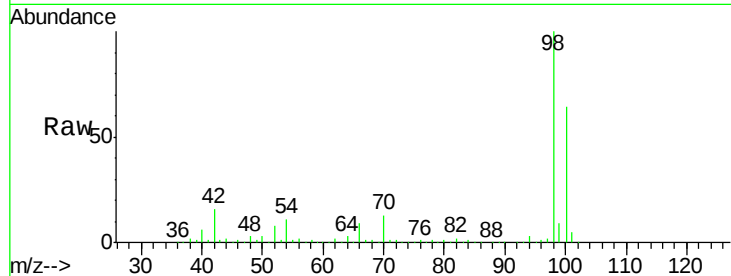
#50  
Toluene-d8  
Concen: 49.983 ug/l  
RT: 10.08 min Scan# 2585  
Delta R.T. -0.00 min  
Lab File: VN057501.D  
Acq: 26 Aug 2019 10:49

Instrument :  
MSVOA\_N  
ClientSampled :  
PB122524TB

Tot Ion: 98 Resp: 903712  
Ion Ratio Lower Upper  
98 100  
100 63.4 50.4 75.6

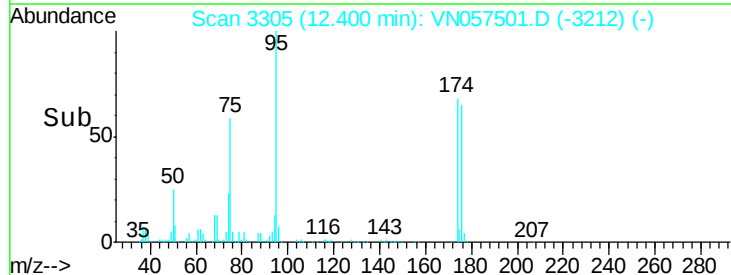
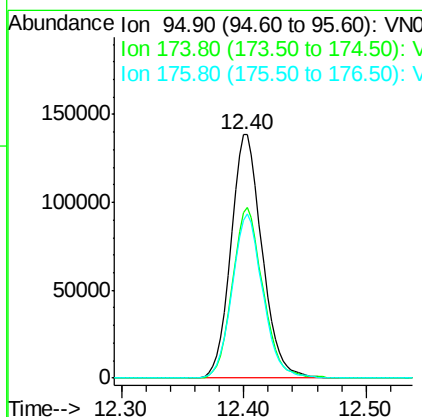
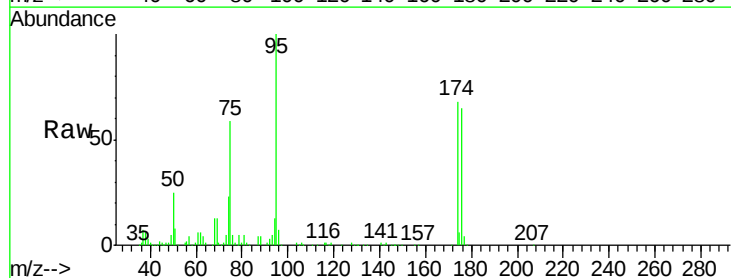
Manual Integrations  
APPROVED

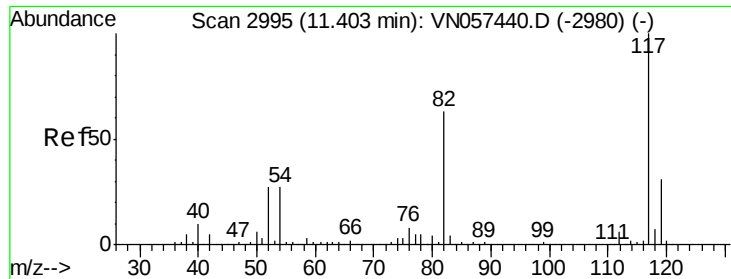
MMDadoda  
8/27/2019 5:30:25 PM



#62  
4-Bromofluorobenzene  
Concen: 40.225 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN057501.D  
Acq: 26 Aug 2019 10:49

Tgt Ion: 95 Resp: 246465  
Ion Ratio Lower Upper  
95 100  
174 68.7 0.0 133.0  
176 66.2 0.0 130.8





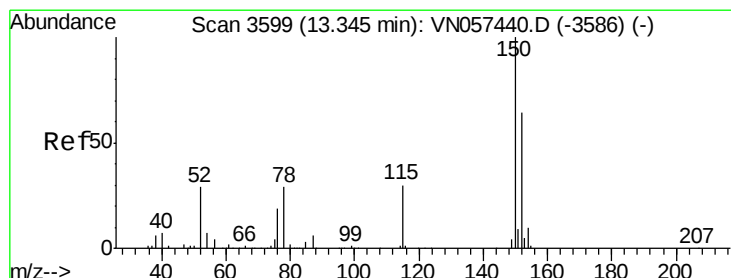
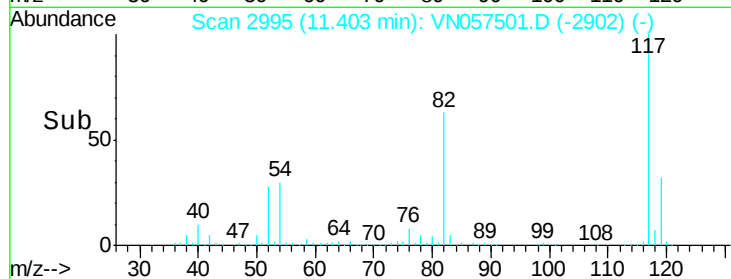
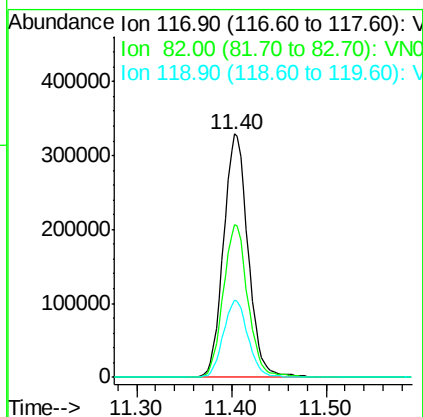
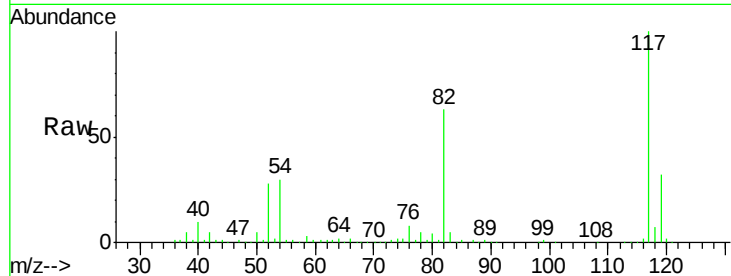
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2995  
Delta R.T. -0.00 min  
Lab File: VN057501.D  
Acq: 26 Aug 2019 10:49

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB122524TB

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 62.8  | 50.6  | 75.8  |
| 119     | 31.8  | 24.6  | 36.8  |

Manual Integrations  
APPROVED

MMDadoda  
8/27/2019 5:30:25 PM



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. -0.00 min  
Lab File: VN057501.D  
Acq: 26 Aug 2019 10:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 63.7  | 32.0  | 96.0  |
| 150     | 156.9 | 0.0   | 346.6 |

