

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032019\  
 Data File : VN054486.D  
 Acq On : 21 Mar 2019 2:33  
 Operator : JC/SP  
 Sample : K1688-30  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 JC-02-031919-E

Manual Integrations  
 APPROVED

MMDadoda  
 3/22/2019 3:51:24 PM

Quant Time: Mar 22 06:57:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 02:09:07 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 7.67  | 168  | 743135   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59  | 114  | 1132477  | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 940108   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 360124   | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 443020   | 47.93 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.86% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 351527   | 48.18 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.36% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1352590  | 49.31 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.62% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 422739   | 45.29 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 90.58% |          |
| Target Compounds            |       |      |          |       |        |          |
| 20) Methylene Chloride      | 4.54  | 84   | 10626m   | 1.297 | ug/l   | Qvalue   |
| 43) Isopropyl Acetate       | 8.17  | 43   | 18412    | 1.448 | ug/l   | 99       |

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

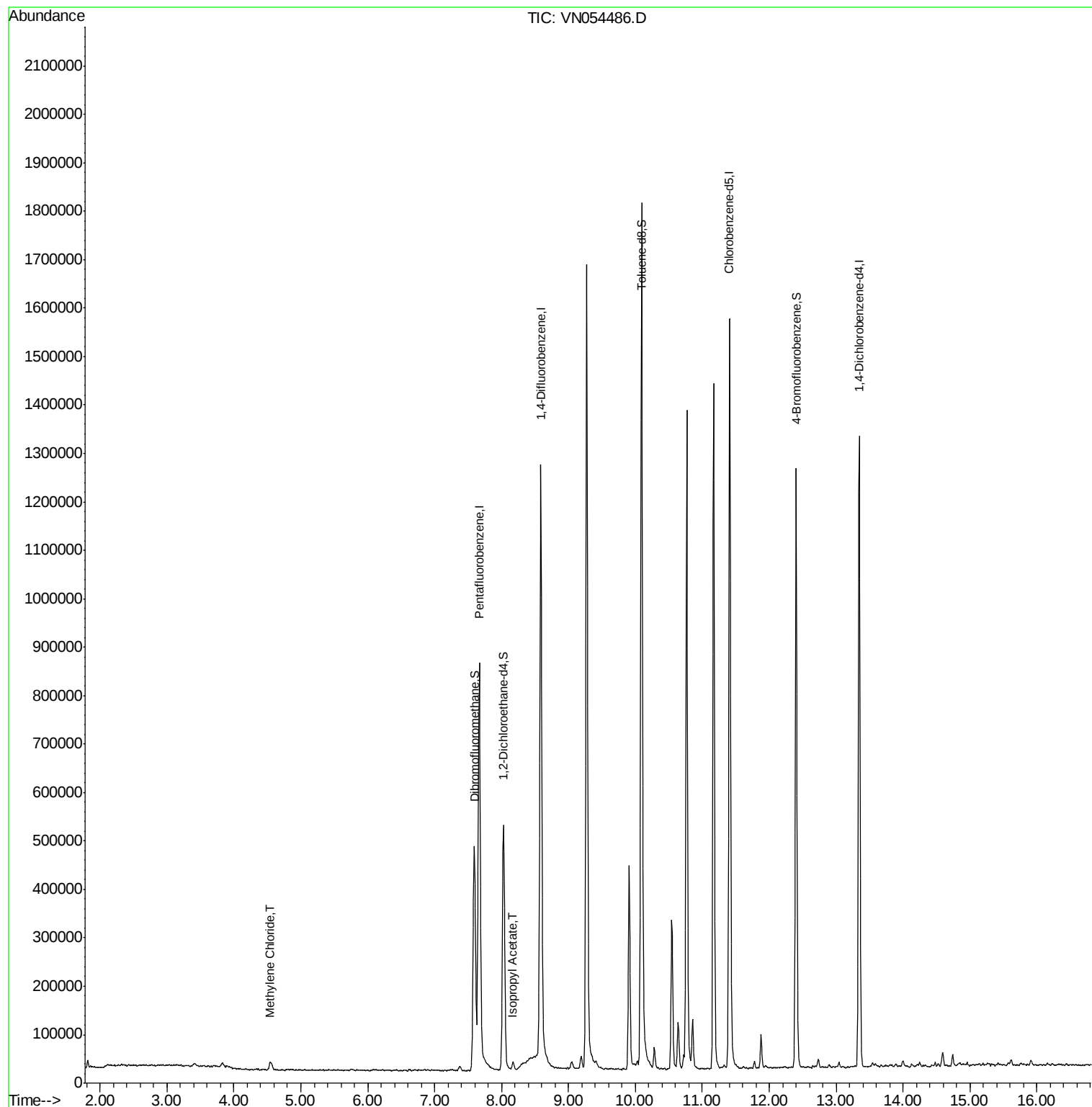
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN032019\  
Data File : VN054486.D  
Acq On : 21 Mar 2019 2:33  
Operator : JC/SP  
Sample : K1688-30  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
JC-02-031919-E

Manual Integrations  
APPROVED

MMDadoda  
3/22/2019 3:51:24 PM

Quant Time: Mar 22 06:57:58 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 22 02:09:07 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054486.D

Acq: 21 Mar 2019 2:33

Instrument :

MSVOA\_N

ClientSampleId :

JC-02-031919-E

Tot Ion:168 Resp: 743135

Ion Ratio Lower Upper

168 100

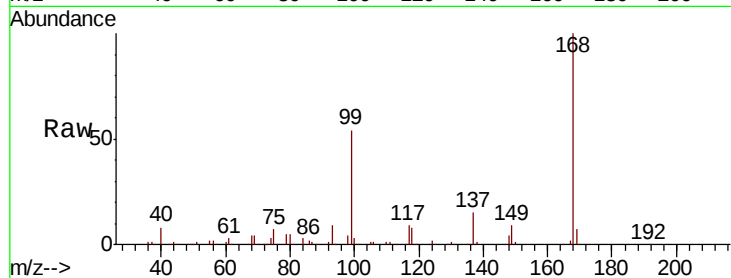
99 53.8 37.1 55.7

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:51:24 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

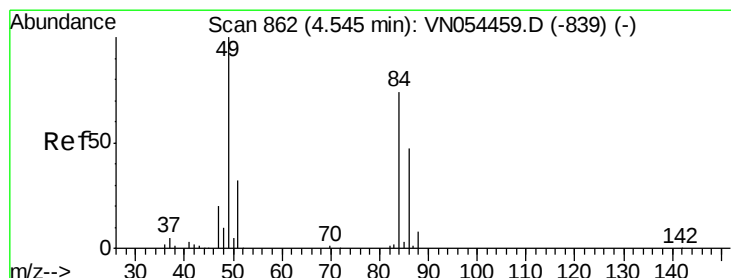
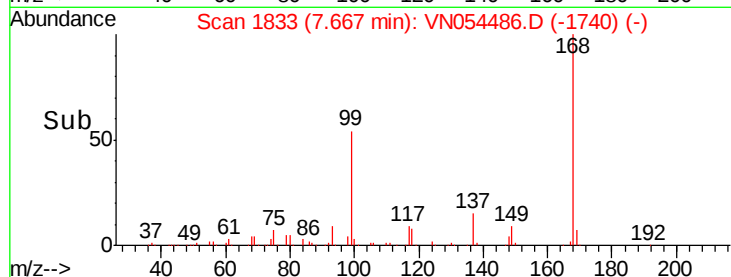
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 1.297 ug/l m

RT: 4.54 min Scan# 862

Delta R.T. -0.00 min

Lab File: VN054486.D

Acq: 21 Mar 2019 2:33

Tgt Ion: 84 Resp: 10626

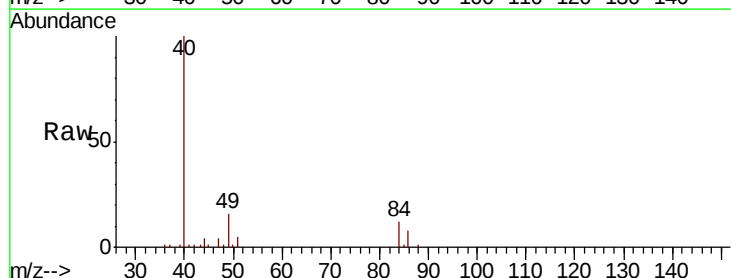
Ion Ratio Lower Upper

84 100

49 126.6 89.7 134.5

51 43.7 28.2 42.4#

86 66.8 50.8 76.2



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

4.54

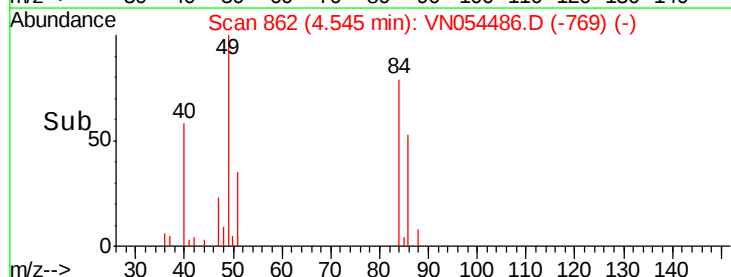
6000

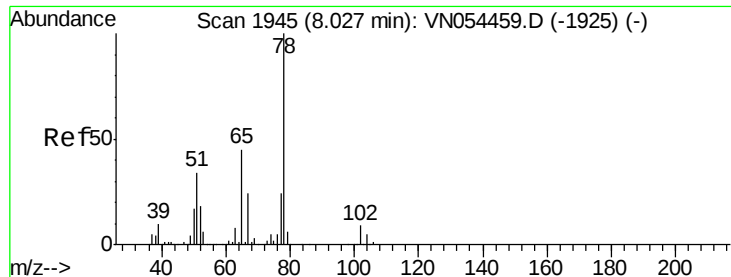
4000

2000

0

Time-->





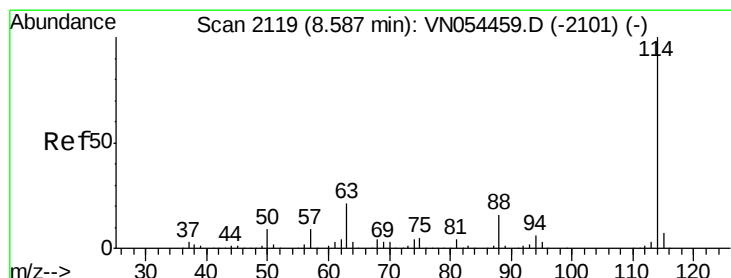
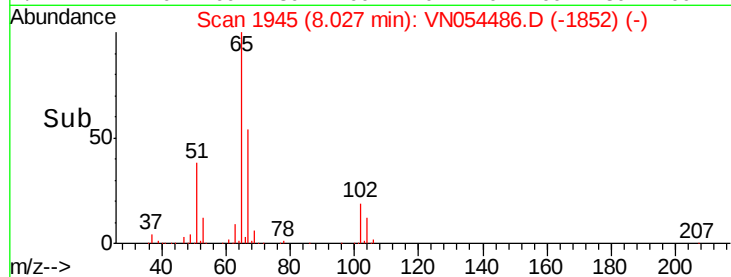
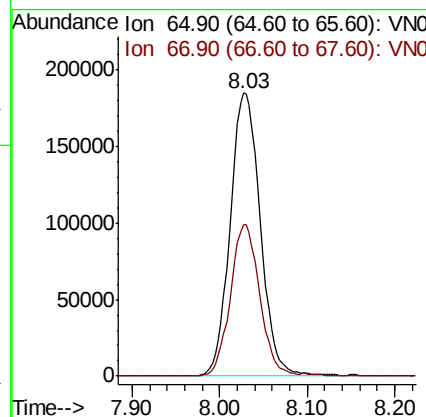
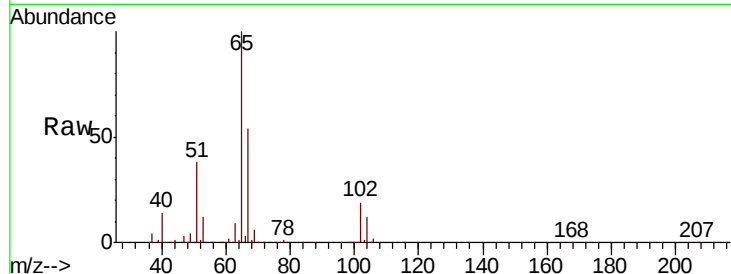
#33  
 1,2-Dichloroethane-d4  
 Concen: 47.928 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN054486.D  
 Acq: 21 Mar 2019 2:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 JC-02-031919-E

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 52.0  | 0.0   | 104.6 |

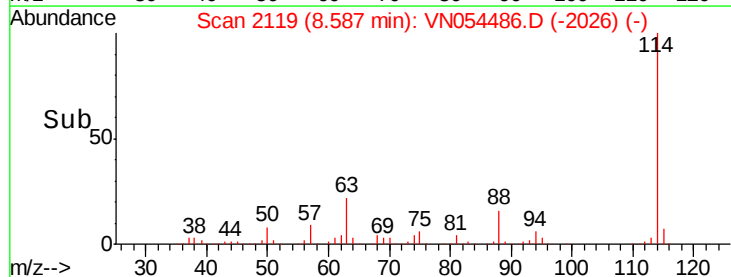
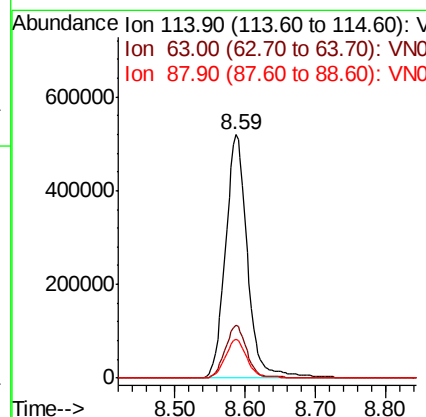
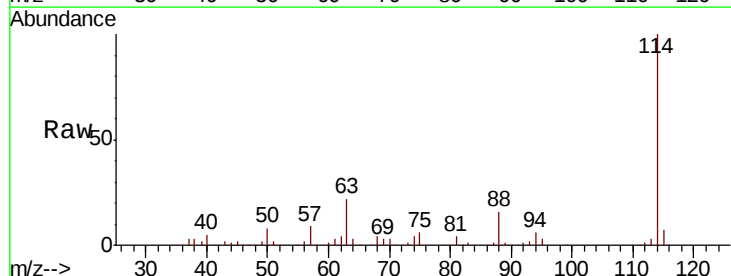
Manual Integrations  
 APPROVED

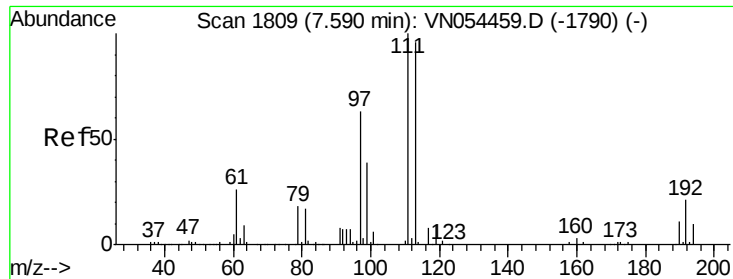
MMDadoda  
 3/22/2019 3:51:24 PM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN054486.D  
 Acq: 21 Mar 2019 2:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.6  | 0.0   | 35.2  |
| 88      | 15.9  | 0.0   | 30.2  |





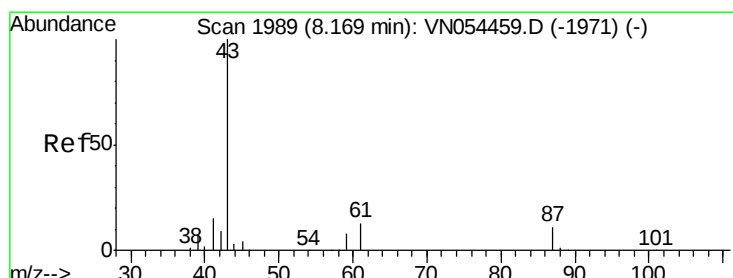
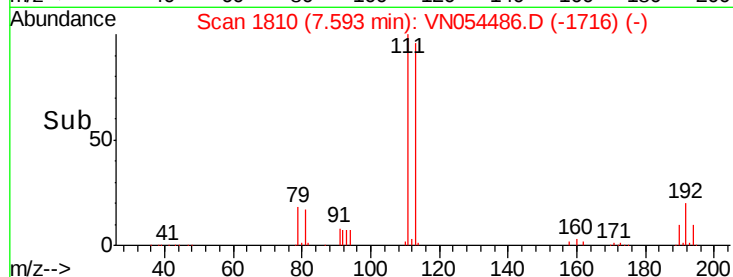
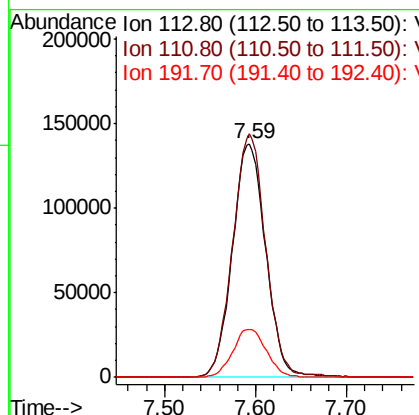
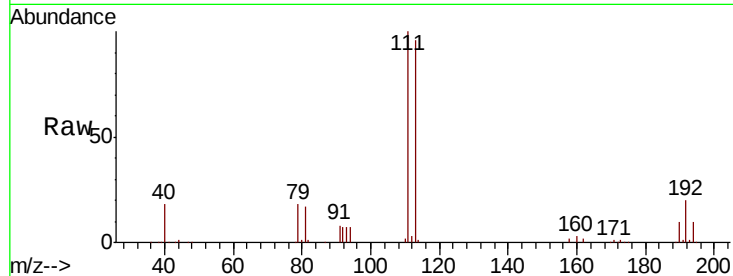
#35  
 Dibromofluoromethane  
 Concen: 48.181 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN054486.D  
 Acq: 21 Mar 2019 2:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 JC-02-031919-E

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 113     | 100   |      |       |       |
| 111     | 103.5 | 82.2 | 123.4 |       |
| 192     | 21.1  | 19.2 | 28.8  |       |

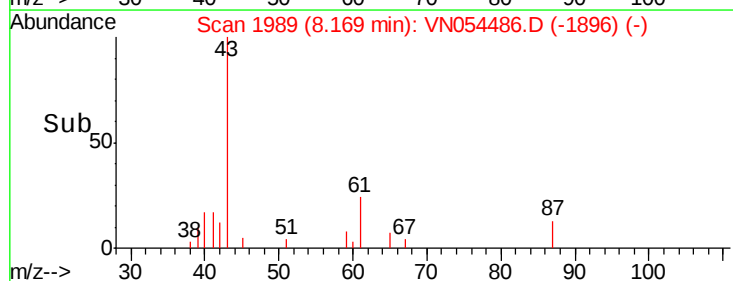
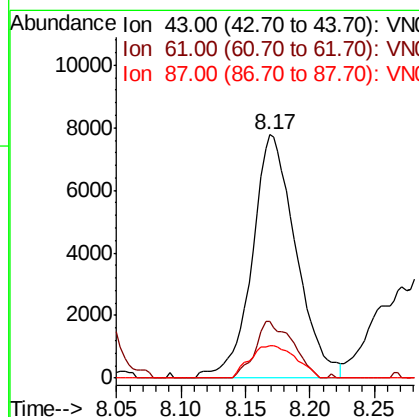
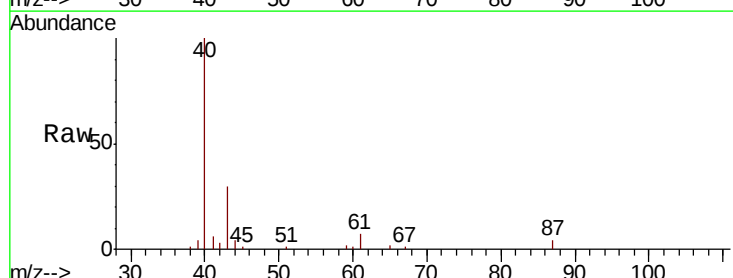
Manual Integrations  
 APPROVED

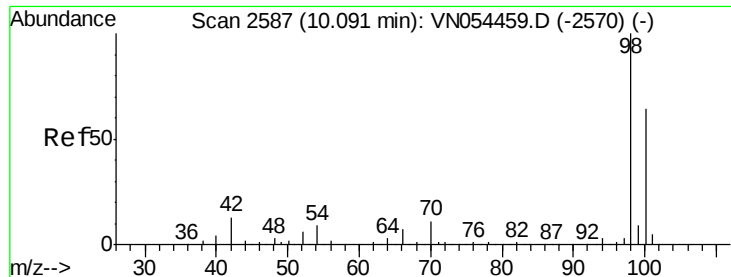
MMDadoda  
 3/22/2019 3:51:24 PM



#43  
 Isopropyl Acetate  
 Concen: 1.448 ug/l  
 RT: 8.17 min Scan# 1989  
 Delta R.T. -0.00 min  
 Lab File: VN054486.D  
 Acq: 21 Mar 2019 2:33

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 43      | 100   |      |       |       |
| 61      | 19.8  | 15.8 | 23.8  |       |
| 87      | 14.0  | 12.0 | 18.0  |       |





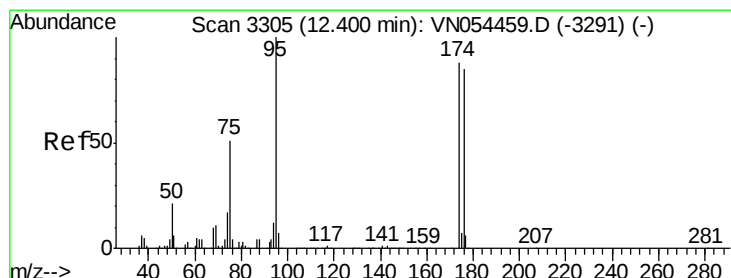
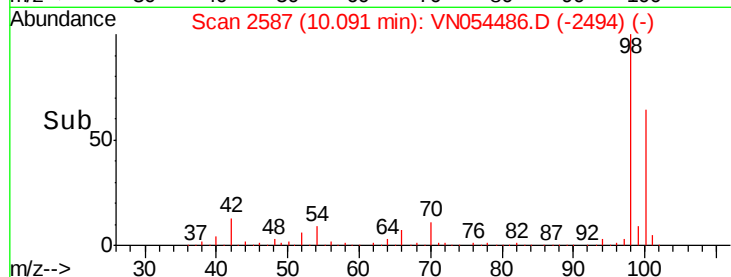
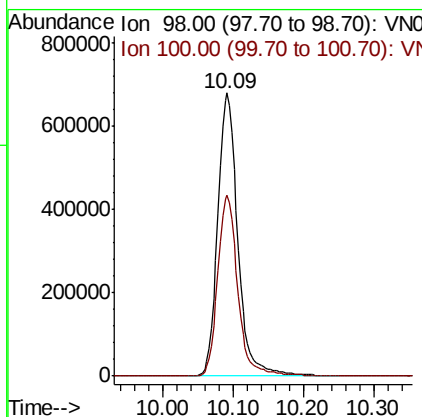
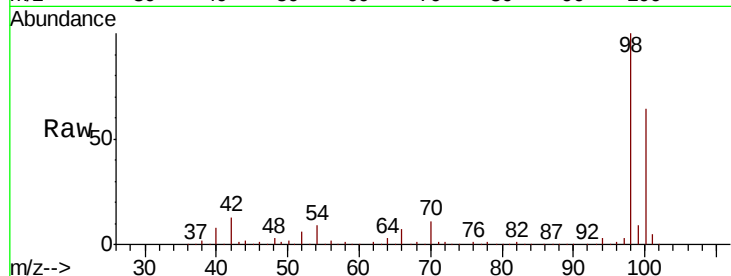
#50  
Toluene-d8  
Concen: 49.314 ug/l  
RT: 10.09 min Scan# 2587  
Delta R.T. -0.00 min  
Lab File: VN054486.D  
Acq: 21 Mar 2019 2:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
JC-02-031919-E

Tot Ion: 98 Resp: 1352590  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.2 76.8

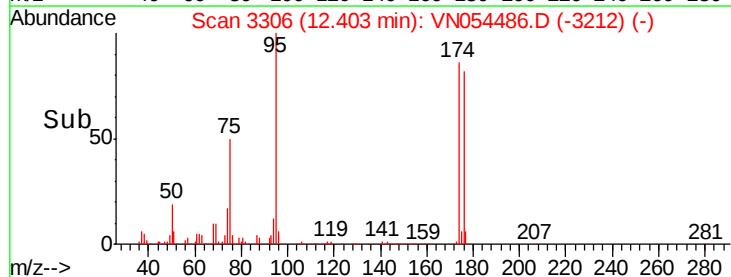
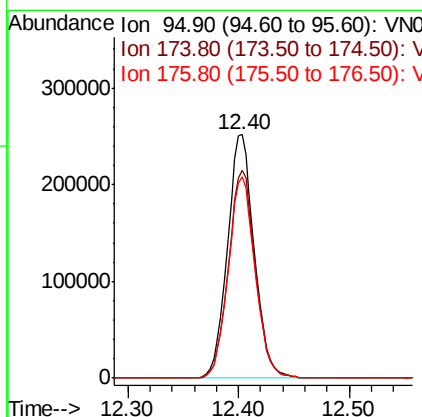
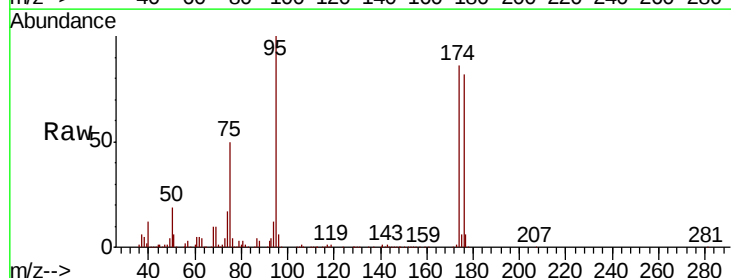
Manual Integrations  
APPROVED

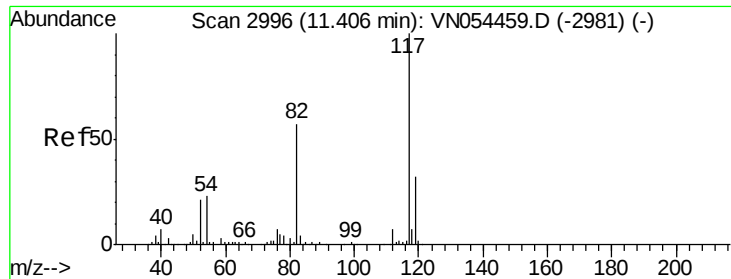
MMDadoda  
3/22/2019 3:51:24 PM



#62  
4-Bromofluorobenzene  
Concen: 45.293 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN054486.D  
Acq: 21 Mar 2019 2:33

Tgt Ion: 95 Resp: 422739  
Ion Ratio Lower Upper  
95 100  
174 85.8 0.0 191.0  
176 83.0 0.0 187.4





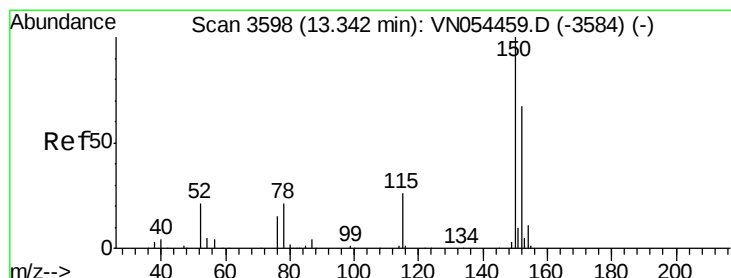
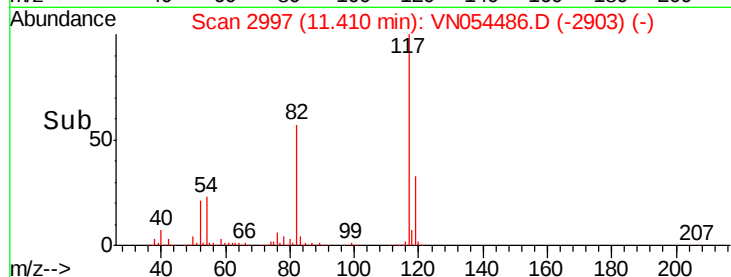
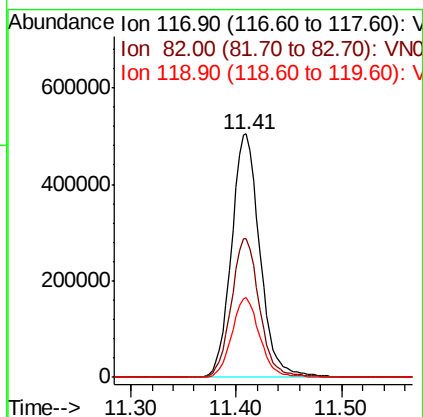
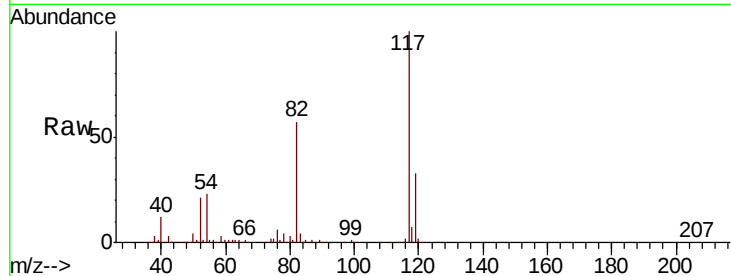
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN054486.D  
Acq: 21 Mar 2019 2:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
JC-02-031919-E

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 940108 |       |       |
| 82      | 57.0  |        | 40.0  | 60.0  |
| 119     | 32.6  |        | 25.8  | 38.6  |

Manual Integrations  
APPROVED

MMDadoda  
3/22/2019 3:51:24 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: VN054486.D  
Acq: 21 Mar 2019 2:33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 360124 |       |       |
| 115     | 57.5  |        | 27.2  | 81.6  |
| 150     | 157.0 |        | 0.0   | 349.2 |

