

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052119\  
 Data File : VN055714.D  
 Acq On : 21 May 2019 17:06  
 Operator : JC/SP  
 Sample : K2951-14  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-15-S

Manual Integrations  
 APPROVED

MMDadoda  
 5/22/2019 4:11:53 PM

Quant Time: May 22 06:01:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051719W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 23:54:12 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min)   |
|-----------------------------|-------|------|----------|-------|--------|------------|
| 1) Pentafluorobenzene       | 7.67  | 168  | 466513   | 50.00 | ug/l   | 0.00       |
| 34) 1,4-Difluorobenzene     | 8.59  | 114  | 628241   | 50.00 | ug/l   | 0.00       |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 550010   | 50.00 | ug/l   | 0.00       |
| 72) 1,4-Dichlorobenzene-d4  | 13.34 | 152  | 217188   | 50.00 | ug/l   | 0.00       |
| System Monitoring Compounds |       |      |          |       |        |            |
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 197901   | 38.70 | ug/l   | 0.00       |
| Spiked Amount 50.000        |       |      | Recovery | =     | 77.40% |            |
| 35) Dibromofluoromethane    | 7.59  | 113  | 191286   | 47.93 | ug/l   | 0.00       |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.86% |            |
| 50) Toluene-d8              | 10.09 | 98   | 719831   | 47.70 | ug/l   | 0.00       |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.40% |            |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 233725   | 44.85 | ug/l   | 0.00       |
| Spiked Amount 50.000        |       |      | Recovery | =     | 89.70% |            |
| Target Compounds            |       |      |          |       |        |            |
| 16) Acetone                 | 3.82  | 43   | 15231    | 7.298 | ug/l   | Qvalue 100 |
| 20) Methylene Chloride      | 4.55  | 84   | 8646     | 1.815 | ug/l   | 93         |
| 43) Isopropyl Acetate       | 8.18  | 43   | 28458m   | 3.237 | ug/l   |            |
| 95) Naphthalene             | 15.14 | 128  | 4009     | 2.107 | ug/l # | 90         |

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

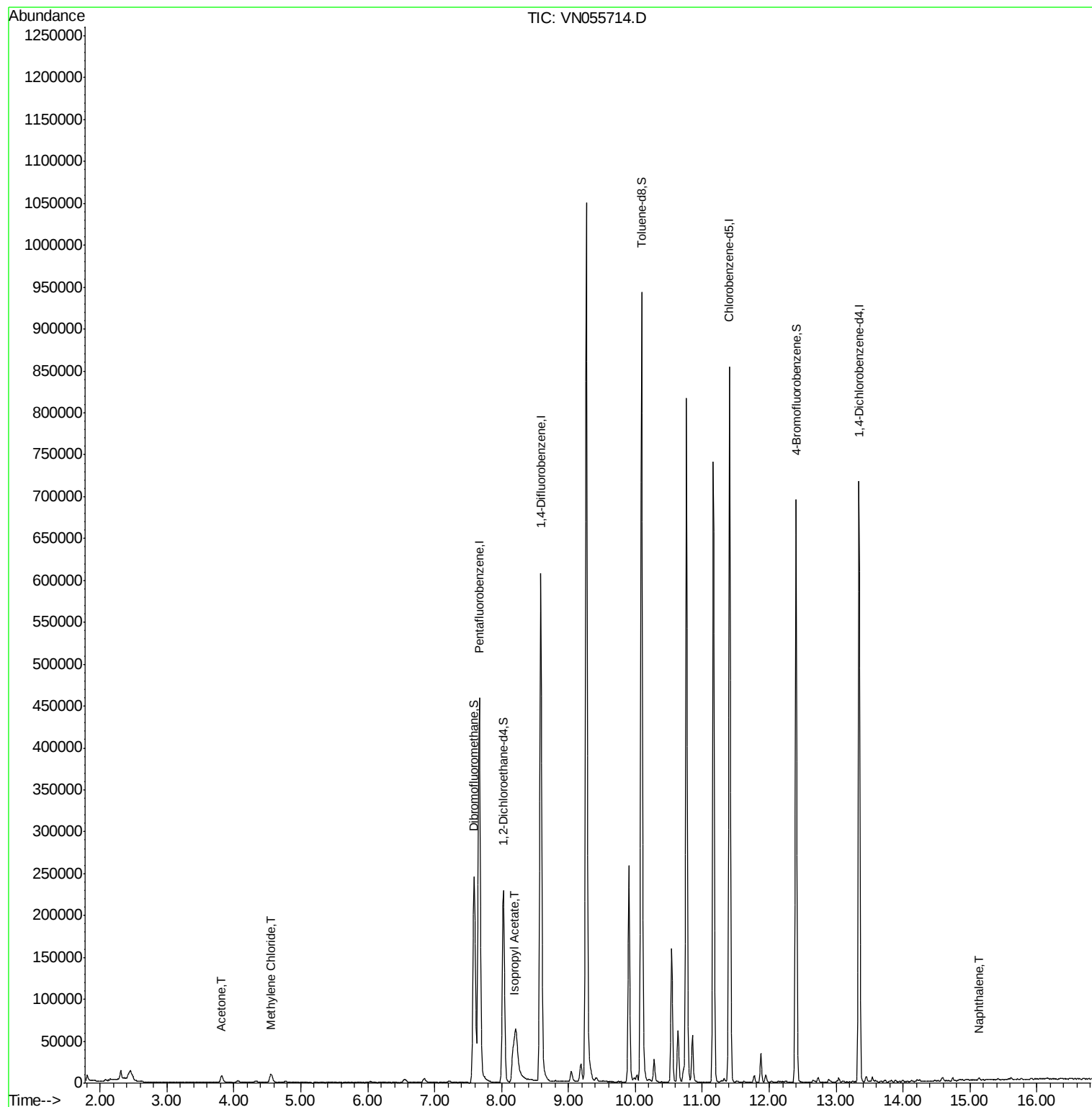
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052119\  
Data File : VN055714.D  
Acq On : 21 May 2019 17:06  
Operator : JC/SP  
Sample : K2951-14  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-15-S

Manual Integrations  
APPROVED

MMDadoda  
5/22/2019 4:11:53 PM

Quant Time: May 22 06:01:32 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051719W.M  
Quant Title : SW846 8260  
QLast Update : Fri May 17 23:54:12 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: VN055714.D

Acq: 21 May 2019 17:06

Instrument :

MSVOA\_N

ClientSampleId :

TP-15-S

Tot Ion:168 Resp: 466513

Ion Ratio Lower Upper

168 100

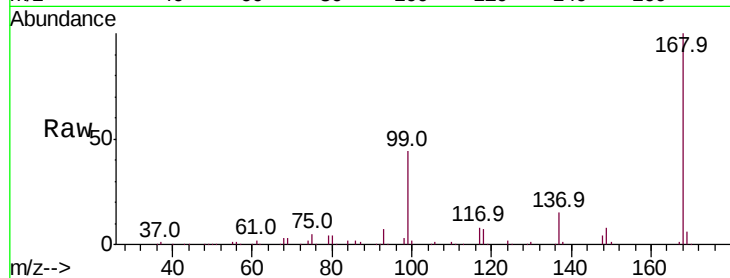
99 43.6 40.2 60.2

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:53 PM



Abundance Ion 167.90 (167.60 to 168.60): VN055714.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055714.D (-1740) (-)

7.67

200000

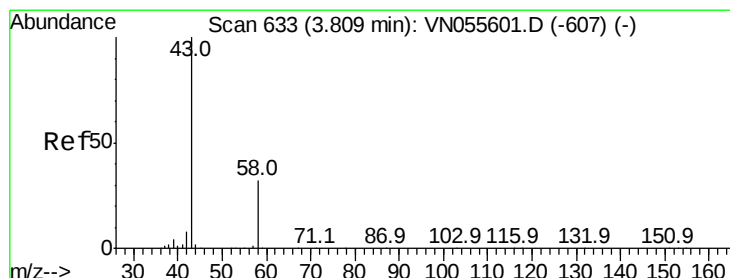
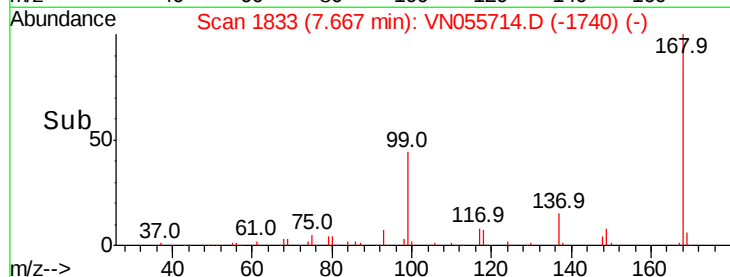
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 7.298 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN055714.D

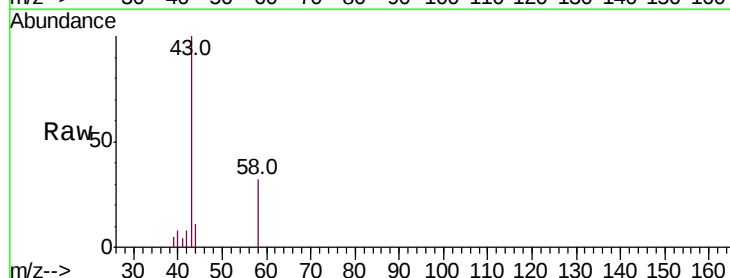
Acq: 21 May 2019 17:06

Tgt Ion: 43 Resp: 15231

Ion Ratio Lower Upper

43 100

58 32.5 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN055714.D (-540) (-)

Ion 58.00 (57.70 to 58.70): VN055714.D (-540) (-)

3.82

6000

5000

4000

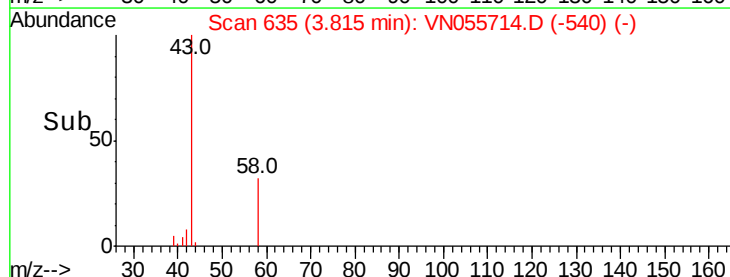
3000

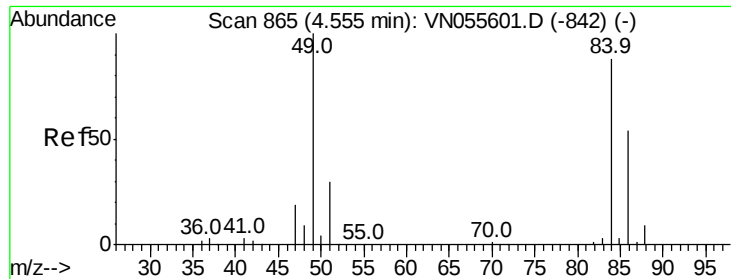
2000

1000

0

Time-->





#20

Methvlene Chloride

Concen: 1.815 ug/l

RT: 4.55 min Scan# 864

Delta R.T. -0.00 min

Lab File: VN055714.D

Acq: 21 May 2019 17:06

Instrument :

MSVOA\_N

ClientSampleId :

TP-15-S

Tot Ion: 84 Resp: 8646

Ion Ratio Lower Upper

84 100

49 106.7 91.0 136.4

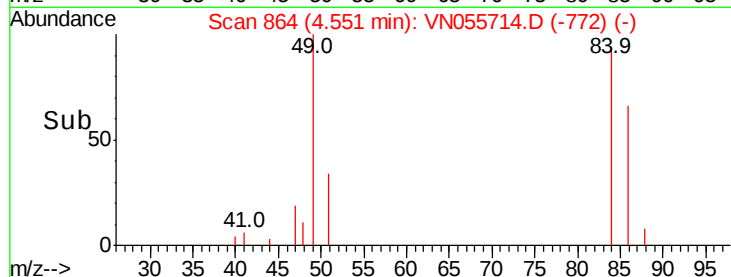
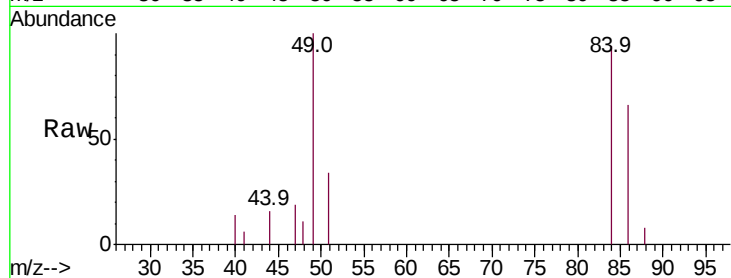
51 36.2 27.5 41.3

86 70.4 49.4 74.0

Manual Integrations  
APPROVED

MMDadoda

5/22/2019 4:11:53 PM

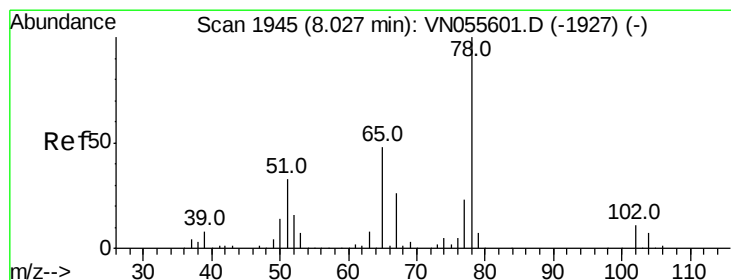
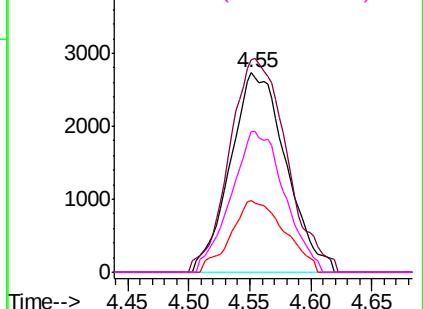


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 38.698 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN055714.D

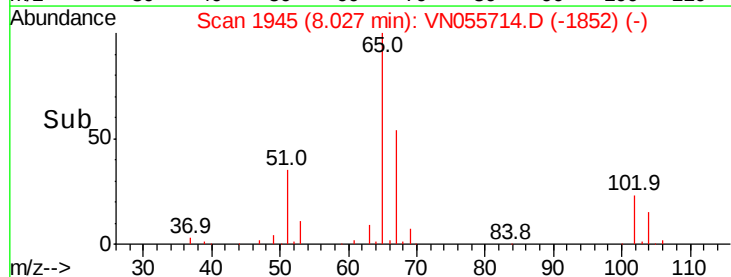
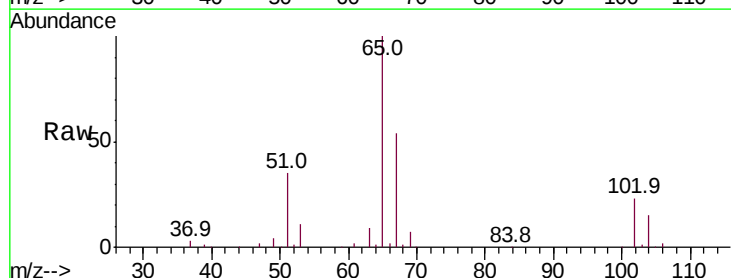
Acq: 21 May 2019 17:06

Tgt Ion: 65 Resp: 197901

Ion Ratio Lower Upper

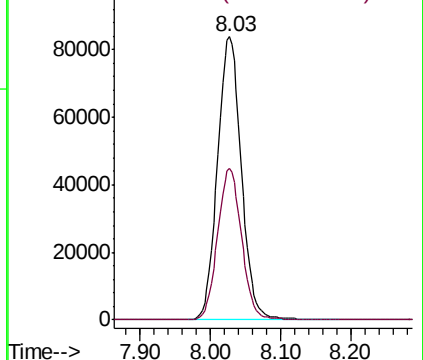
65 100

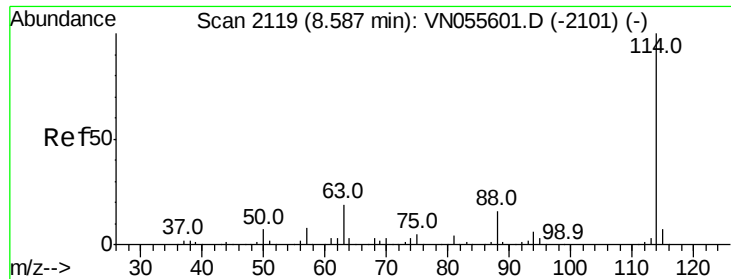
67 53.8 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





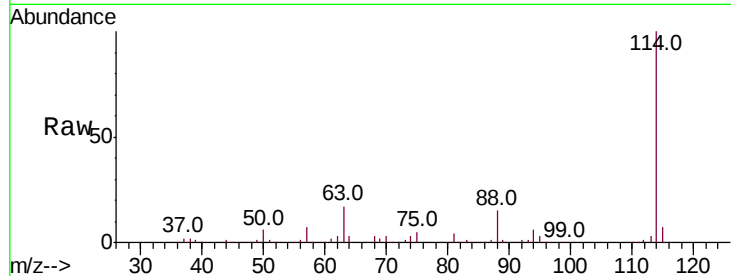
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.59 min Scan# 2119  
Delta R.T. -0.00 min  
Lab File: VN055714.D  
Acq: 21 May 2019 17:06

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-15-S

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 628241 |       |       |
| 63      | 17.4  | 0.0    | 38.2  |       |
| 88      | 14.6  | 0.0    | 31.0  |       |

Manual Integrations  
APPROVED

MMDadoda  
5/22/2019 4:11:53 PM

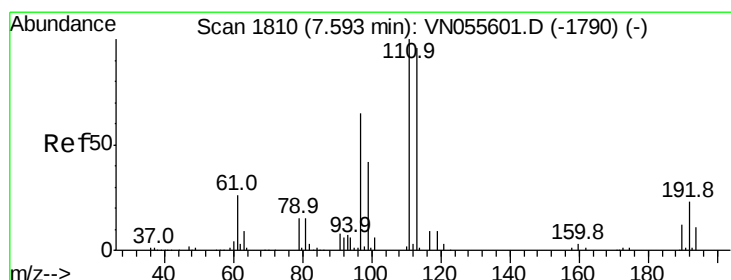
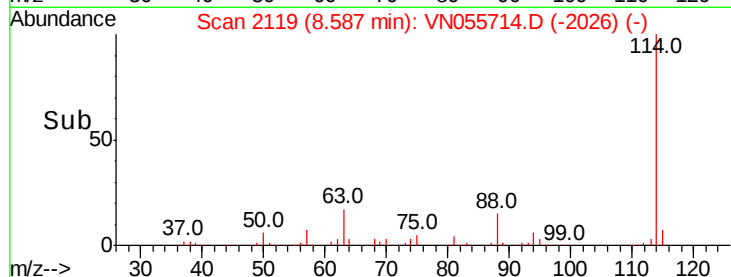
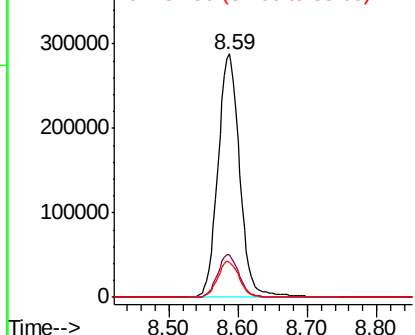


Abundance

Ion 113.90 (113.60 to 114.60): V

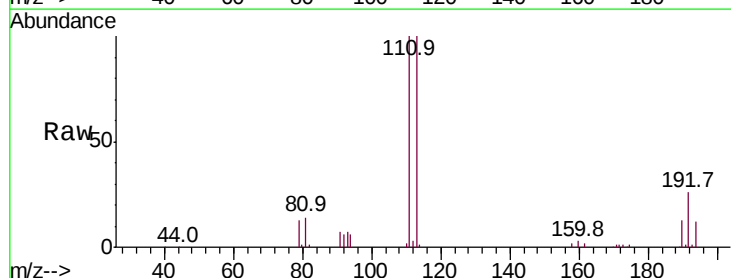
Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35  
Dibromofluoromethane  
Concen: 47.931 ug/l  
RT: 7.59 min Scan# 1809  
Delta R.T. -0.00 min  
Lab File: VN055714.D  
Acq: 21 May 2019 17:06

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 191286 |       |       |
| 111     | 101.4 | 82.5   | 123.7 |       |
| 192     | 26.4  | 18.7   | 28.1  |       |

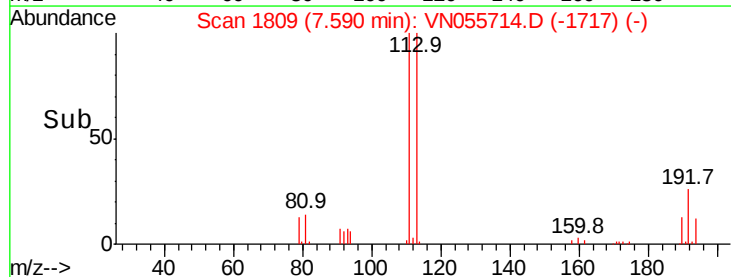
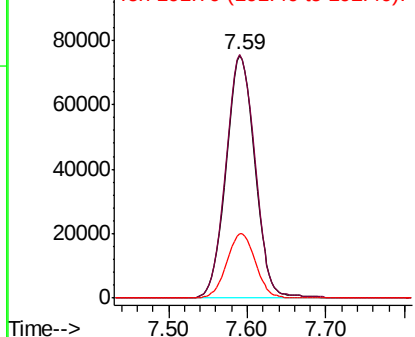


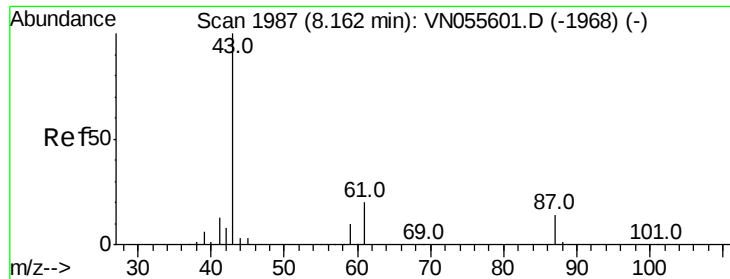
Abundance

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: 3.237 ug/l m

RT: 8.18 min Scan# 1992

Delta R.T. 0.02 min

Lab File: VN055714.D

Acq: 21 May 2019 17:06

Instrument :

MSVOA\_N

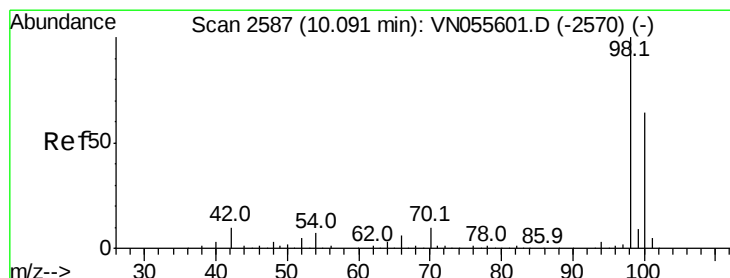
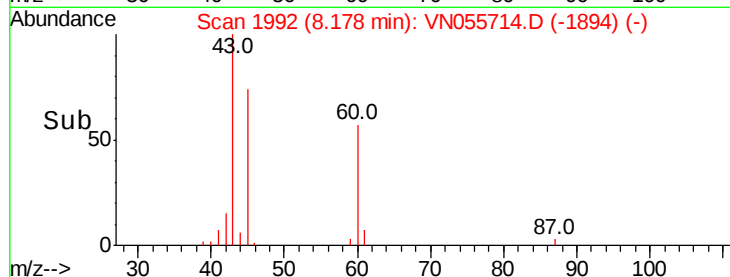
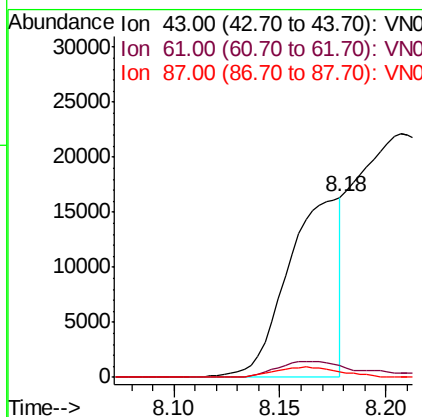
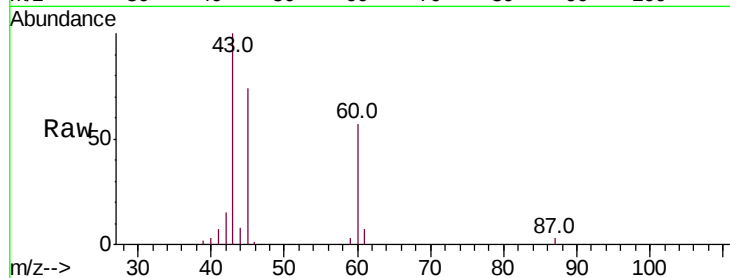
ClientSampled :

TP-15-S

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 43    | Resp: | 28458 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 61        | 0.0   | 22.1  | 33.1# |
| 87        | 0.0   | 11.8  | 17.6# |

Manual Integrations  
APPROVED

MMDadoda  
5/22/2019 4:11:53 PM



#50

Toluene-d8

Concen: 47.703 ug/l

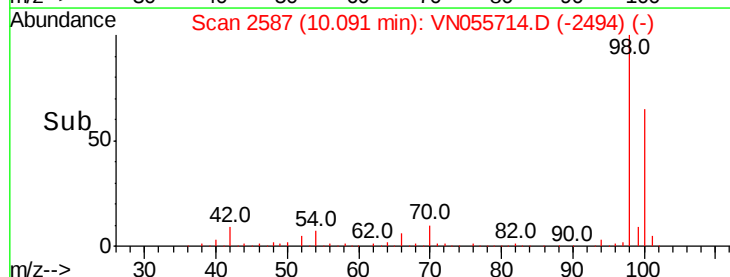
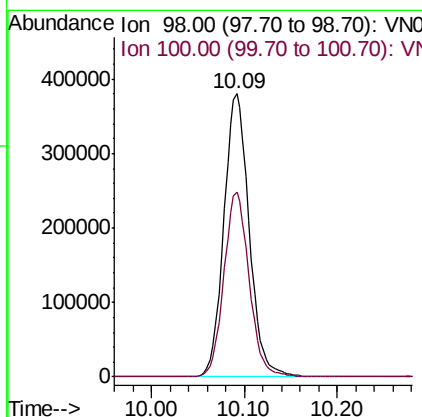
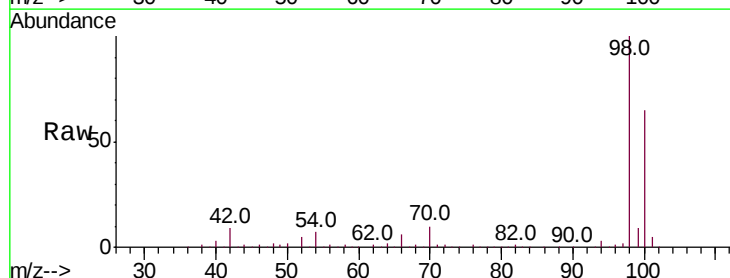
RT: 10.09 min Scan# 2587

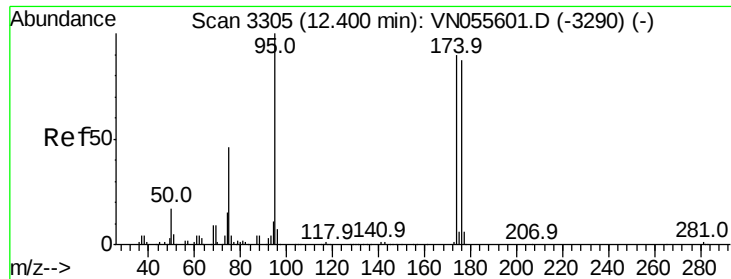
Delta R.T. -0.00 min

Lab File: VN055714.D

Acq: 21 May 2019 17:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 98    | Resp: | 719831 |
| Ion Ratio | Lower | Upper |        |
| 98        | 100   |       |        |
| 100       | 65.0  | 51.9  | 77.9   |





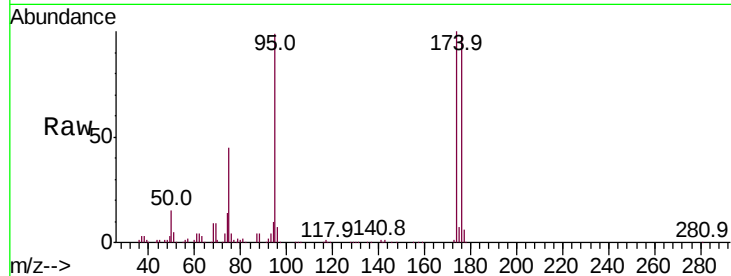
#62  
4-Bromofluorobenzene  
Concen: 44.854 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN055714.D  
Acq: 21 May 2019 17:06

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-15-S

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 233725 |       |       |
| 174     | 101.6 | 0.0    | 180.6 |       |
| 176     | 99.3  | 0.0    | 177.4 |       |

Manual Integrations  
APPROVED

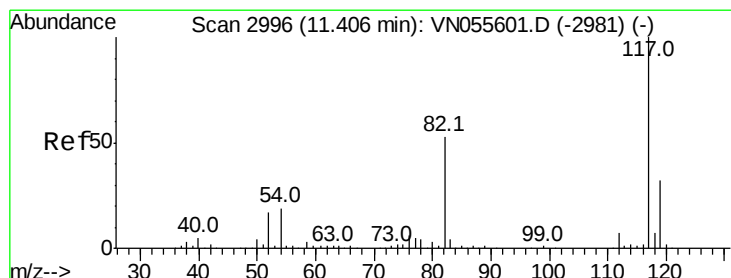
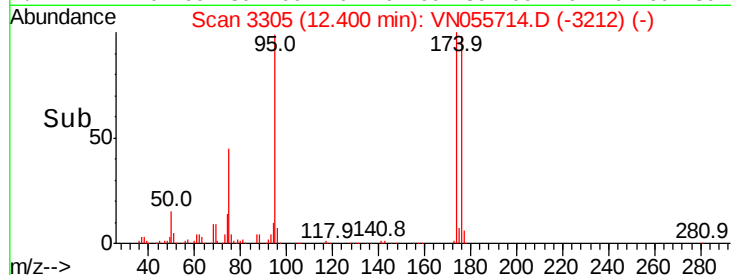
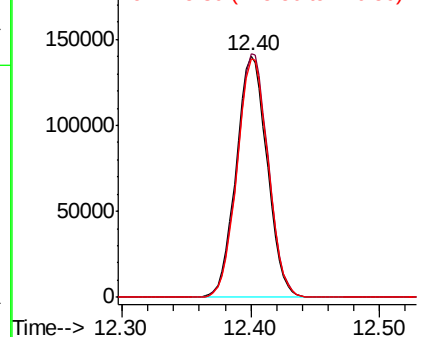
MMDadoda  
5/22/2019 4:11:53 PM



Abundance Ion 94.90 (94.60 to 95.60): VN055714.D (-3212) (-)

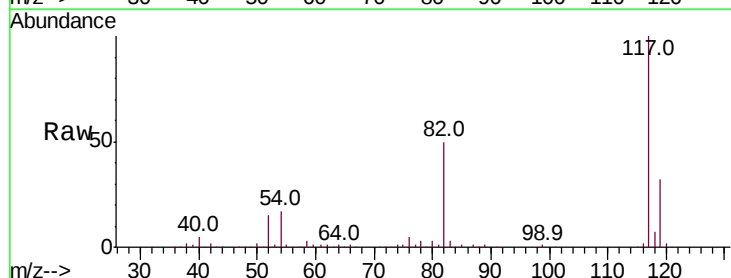
Ion 173.80 (173.50 to 174.50): VN055714.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN055714.D (-3212) (-)



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN055714.D  
Acq: 21 May 2019 17:06

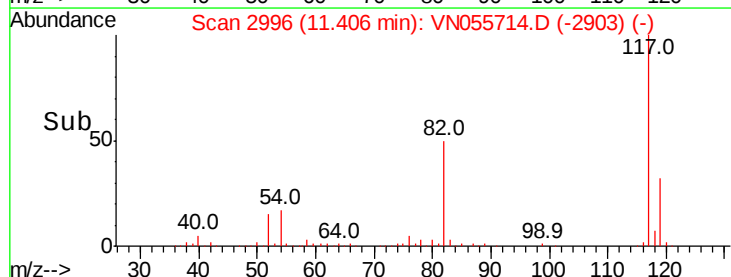
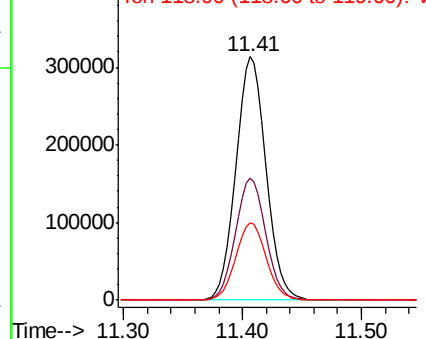
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 550010 |       |       |
| 82      | 50.3  | 42.3   | 63.5  |       |
| 119     | 31.8  | 25.4   | 38.2  |       |

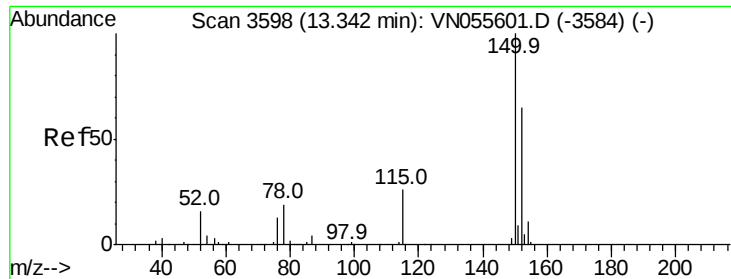


Abundance Ion 116.90 (116.60 to 117.60): VN055714.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN055714.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN055714.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN055714.D

Acq: 21 May 2019 17:06

Instrument :

MSVOA\_N

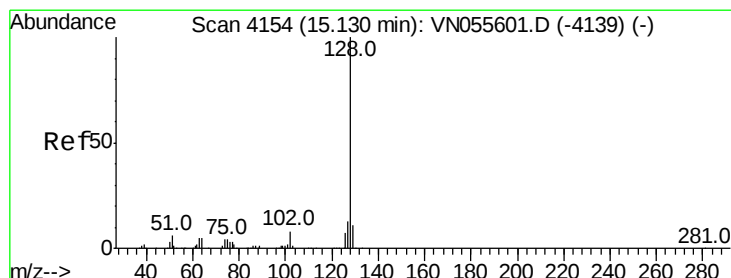
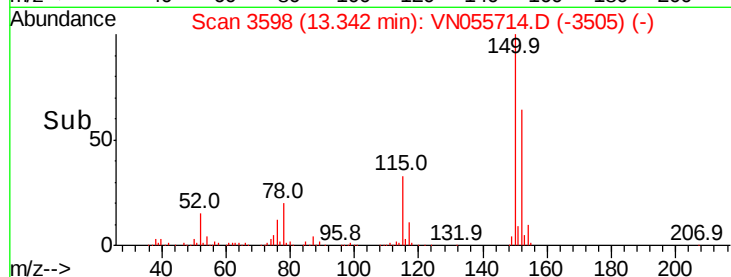
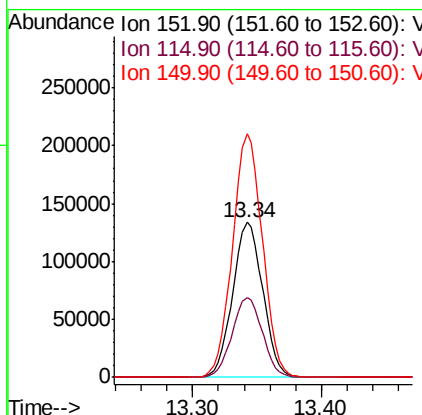
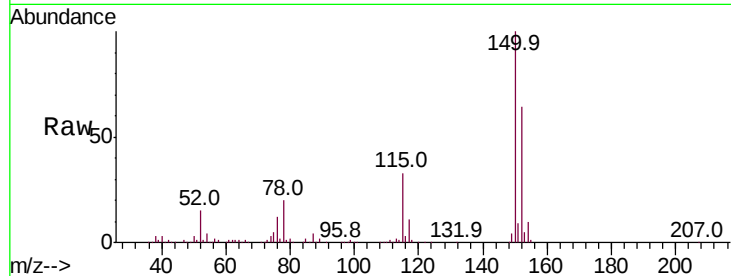
ClientSampled :

TP-15-S

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 217188 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 51.8  | 28.1  | 84.2   |
| 150       | 156.3 | 0.0   | 348.0  |

Manual Integrations  
APPROVED

MMDadoda  
5/22/2019 4:11:53 PM



#95

Naphthalene

Concen: 2.107 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055714.D

Acq: 21 May 2019 17:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 4009  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 8.7   | 10.2  | 15.4# |
| 129       | 7.3   | 8.6   | 12.8# |

