

Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\  
 Data File : BF102014.D  
 Acq On : 11 Jan 2018 12:44  
 Operator : SJ/JU  
 Sample : J1076-13DL 100X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-50-01DL

Manual Integrations  
 APPROVED

Sohil  
 1/12/2018 10:37:05 AM

Quant Time: Jan 11 13:50:21 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 09 15:20:36 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.72  | 152  | 238550   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.01  | 136  | 994806   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.76  | 164  | 432033   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.25 | 188  | 723884   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.87 | 240  | 408058   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.29 | 264  | 375188   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.32  | 112  | 3823     | 0.23   | ng    | 0.00     |
| 7) Phenol-d6                | 6.34  | 99   | 4201     | 0.21   | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.28  | 82   | 2534     | 0.15   | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.54 | 330  | 693      | 0.18   | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.08  | 172  | 4901     | 0.18   | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.82 | 244  | 4915     | 0.25   | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.36  | 94   | 88678    | 3.893  | ng    | 98       |
| 20) 3+4-Methylphenols       | 7.13  | 107  | 66832    | 3.642  | ng    | 87       |
| 31) Naphthalene             | 8.03  | 128  | 3004662  | 60.445 | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.72  | 142  | 564555   | 17.252 | ng    | 99       |
| 45) 1,1'-Biphenyl           | 9.18  | 154  | 154191   | 4.038  | ng    | 99       |
| 48) Acenaphthylene          | 9.62  | 152  | 598601   | 12.738 | ng    | 99       |
| 51) Acenaphthene            | 9.79  | 154  | 112684   | 3.951  | ng    | 99       |
| 54) Dibenzofuran            | 9.96  | 168  | 492395   | 12.578 | ng    | 98       |
| 57) Fluorene                | 10.30 | 166  | 611462   | 22.595 | ng    | 100      |
| 70) Phenanthrene            | 11.27 | 178  | 1952089  | 46.166 | ng    | 99       |
| 71) Anthracene              | 11.32 | 178  | 705104   | 16.442 | ng    | 99       |
| 72) Carbazole               | 11.47 | 167  | 228634   | 5.424  | ng    | 98       |
| 74) Fluoranthene            | 12.46 | 202  | 1298398  | 31.210 | ng    | 99       |
| 77) Pyrene                  | 12.68 | 202  | 1069744  | 29.658 | ng    | 100      |
| 80) Benzo(a)anthracene      | 13.86 | 228  | 416285m  | 15.989 | ng    |          |
| 82) Chrysene                | 13.90 | 228  | 331264   | 12.202 | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.66 | 276  | 151020   | 7.643  | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 14.89 | 252  | 327804m  | 13.400 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.91 | 252  | 110605m  | 4.687  | ng    |          |
| 89) Benzo(a)pyrene          | 15.23 | 252  | 263596   | 11.974 | ng    | 97       |
| 90) Dibenzo(a,h)anthracene  | 16.67 | 278  | 42020m   | 2.392  | ng    |          |
| 91) Benzo(g,h,i)perylene    | 17.07 | 276  | 139896   | 7.905  | ng    | 94       |

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

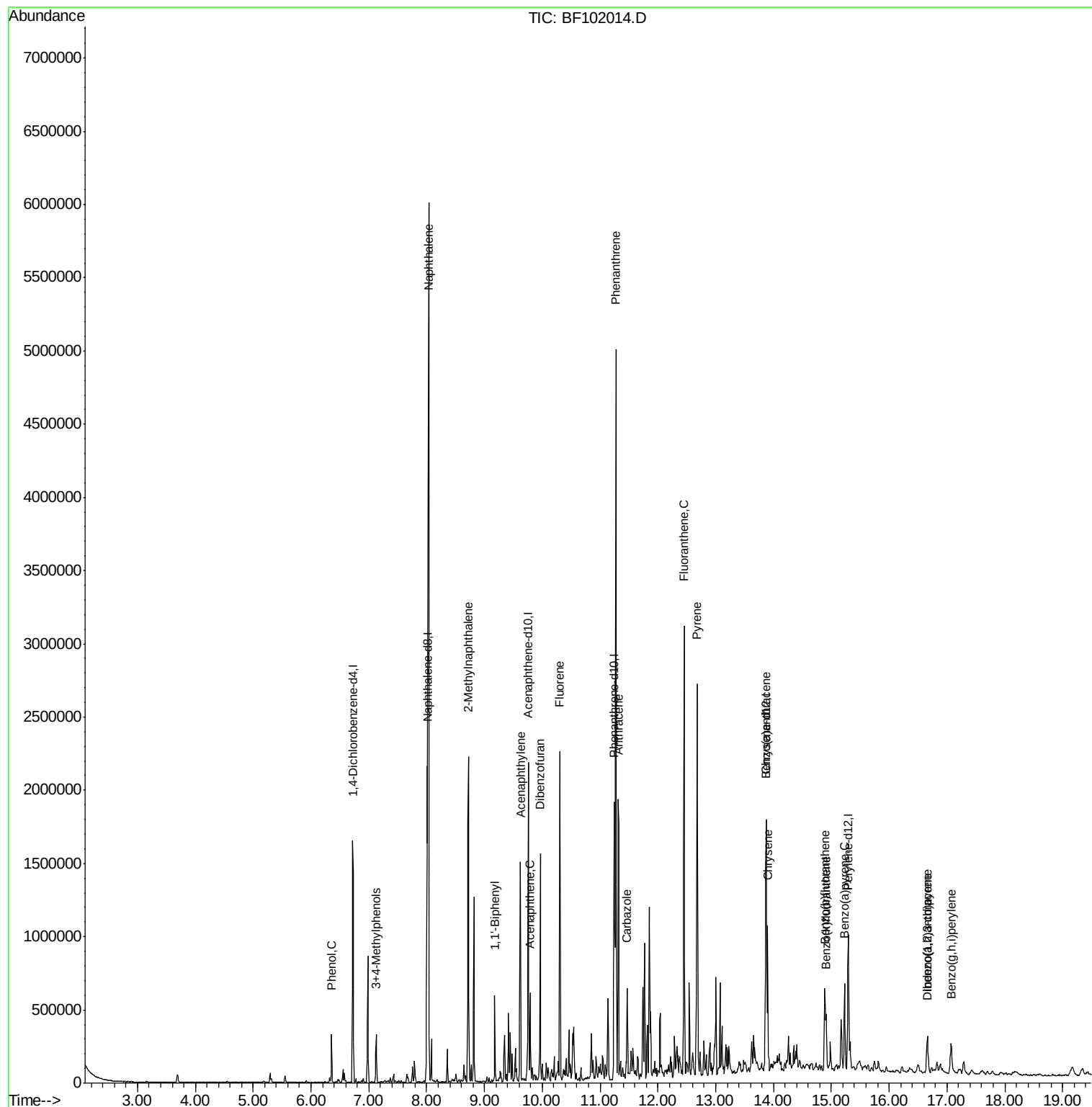
Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\  
Data File : BF102014.D  
Acq On : 11 Jan 2018 12:44  
Operator : SJ/JU  
Sample : J1076-13DL 100X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

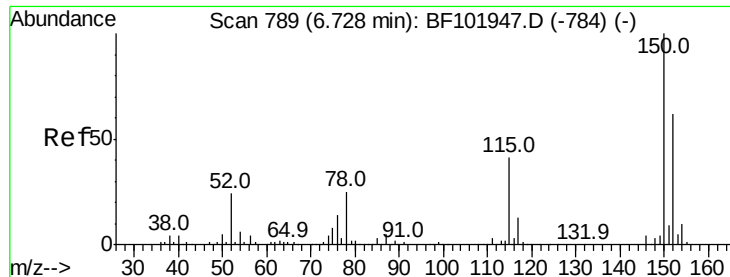
Instrument :  
BNA\_F  
ClientSampleId :  
WC-50-01DL

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Quant Time: Jan 11 13:50:21 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 09 15:20:36 2018  
Response via : Initial Calibration





#1

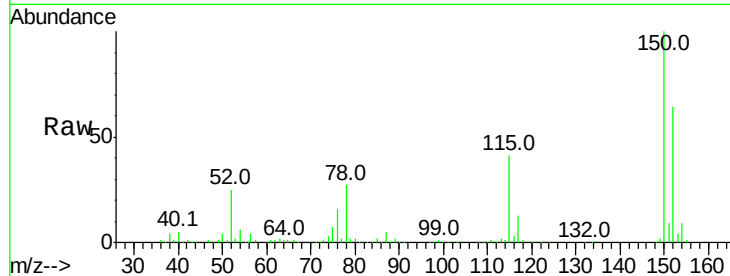
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 788  
Delta R.T. -0.01 min  
Lab File: BF102014.D  
Acq: 11 Jan 2018 12:44

Instrument :  
BNA\_F  
ClientSampleId :  
WC-50-01DL

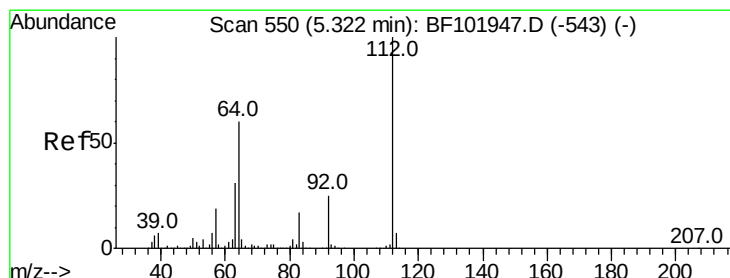
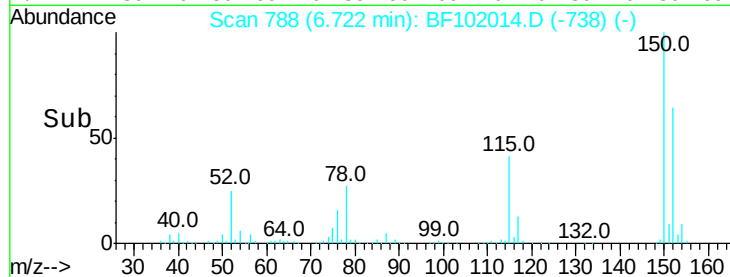
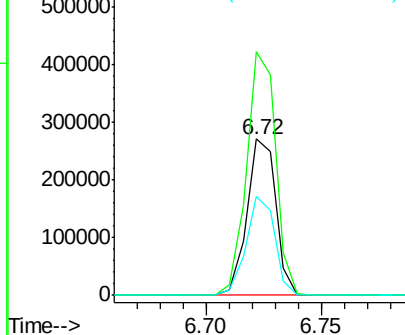
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.8 | 124.6 | 186.8 |
| 115     | 63.5  | 50.1  | 75.1  |

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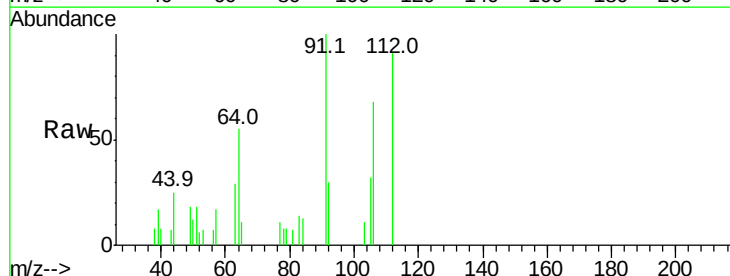
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



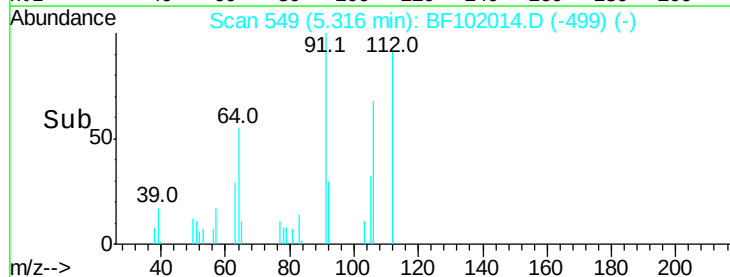
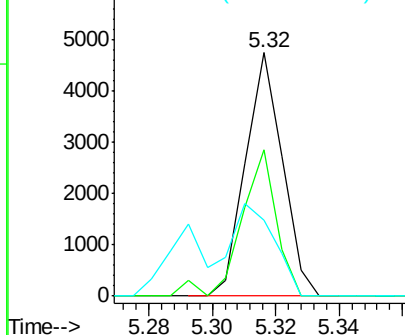
#5

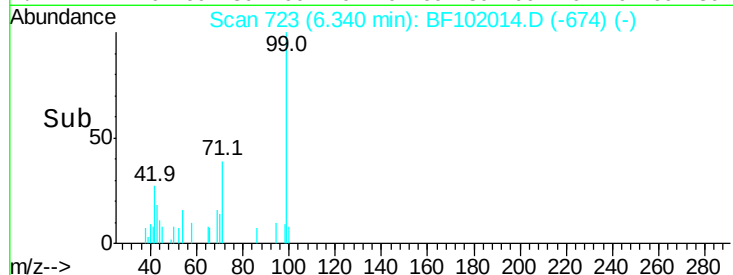
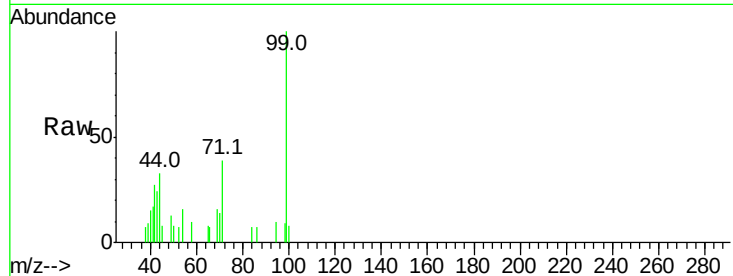
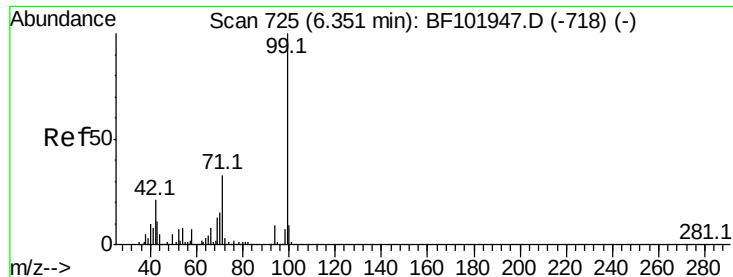
2-Fluorophenol  
Concen: 0.226 ng  
RT: 5.32 min Scan# 549  
Delta R.T. -0.01 min  
Lab File: BF102014.D  
Acq: 11 Jan 2018 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.2  | 47.9  | 71.9  |
| 63      | 31.3  | 23.7  | 35.5  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 0.208 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 4201  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 27.4  | 14.5  | 21.7# |
| 71       | 39.4  | 25.4  | 38.0# |

Instrument :

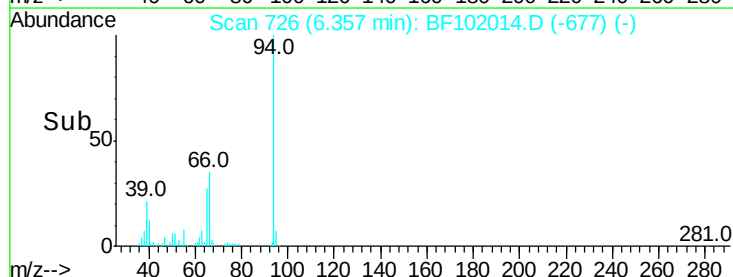
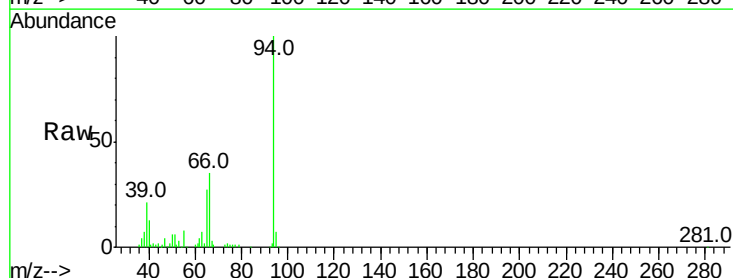
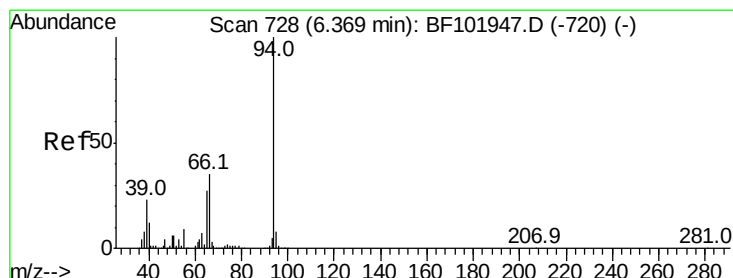
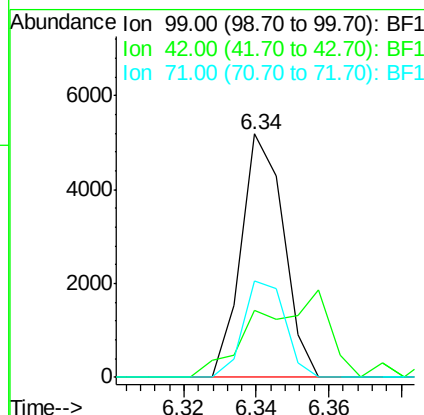
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#10

Phenol

Concen: 3.893 ng

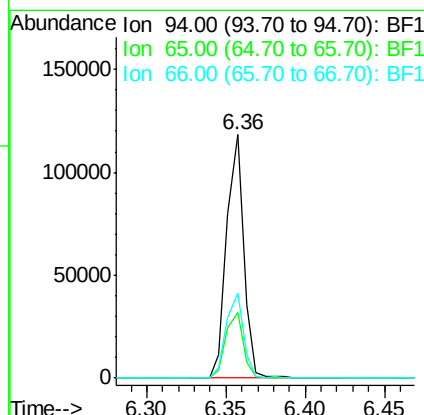
RT: 6.36 min Scan# 726

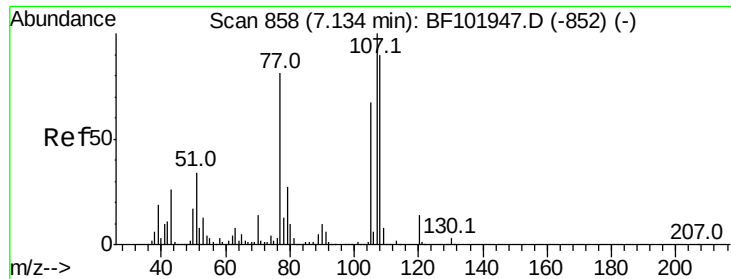
Delta R.T. -0.01 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 88678 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 26.8  | 7.9   | 47.9  |
| 66       | 34.7  | 16.2  | 56.2  |





#20

3+4-Methylphenols

Concen: 3.642 ng

RT: 7.13 min Scan# 857

Delta R.T. -0.01 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

Instrument :

BNA\_F

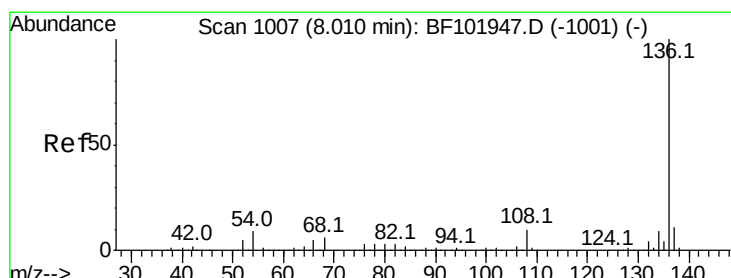
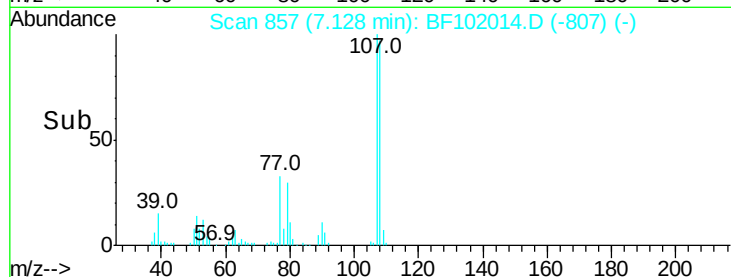
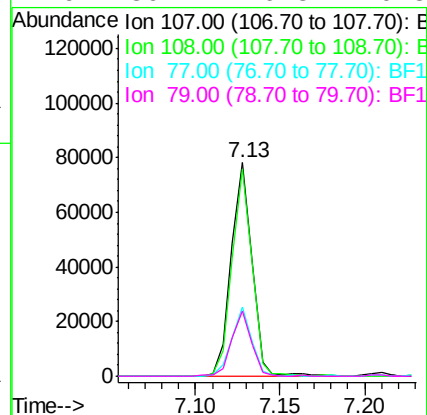
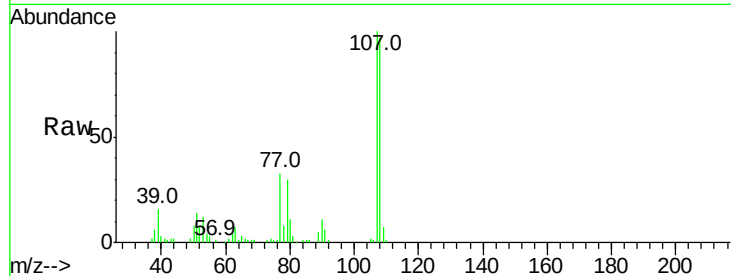
ClientSampleId :

WC-50-01DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 97.0  | 68.2  | 108.2 |
| 77      | 32.6  | 26.7  | 66.7  |
| 79      | 30.4  | 6.3   | 46.3  |

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#21

Naphthalene-d8

Concen: 20.000 ng

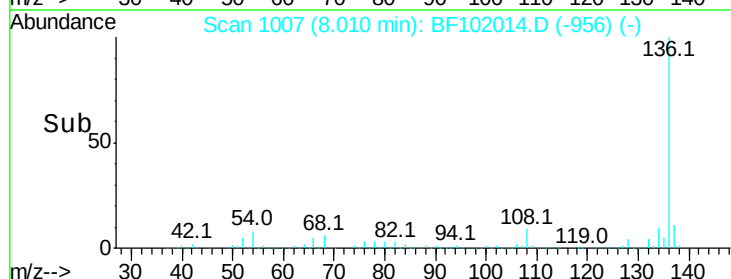
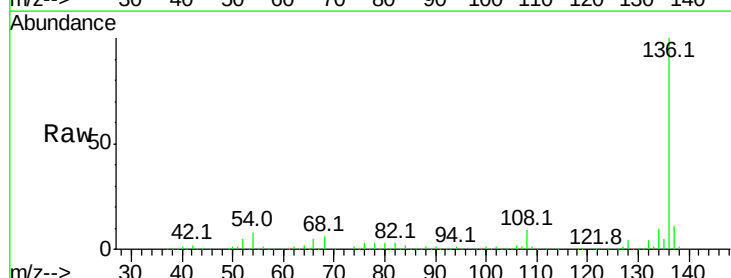
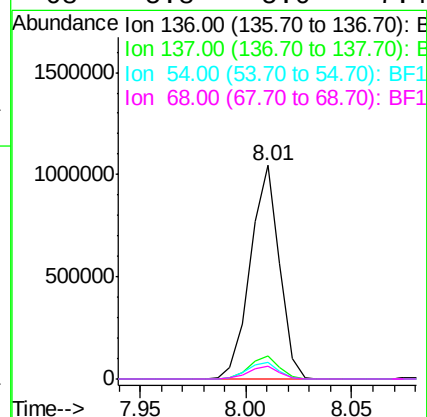
RT: 8.01 min Scan# 1007

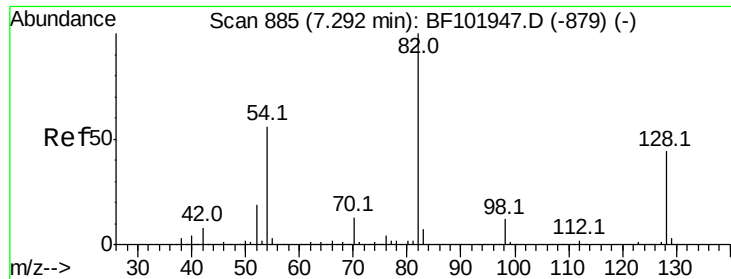
Delta R.T. 0.00 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.8  | 8.9   | 13.3  |
| 54      | 8.1   | 6.6   | 9.8   |
| 68      | 5.8   | 5.0   | 7.4   |





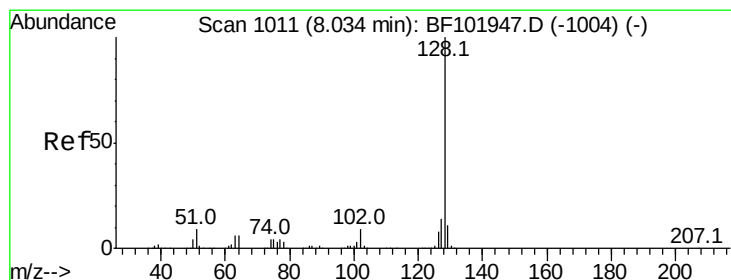
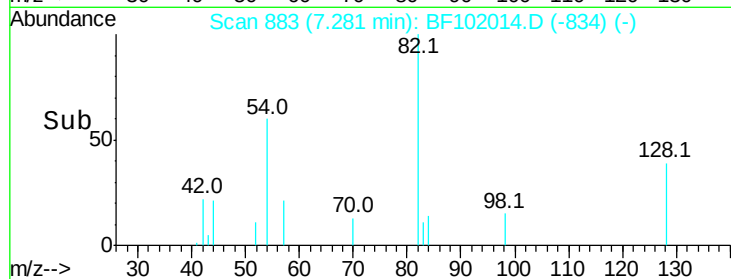
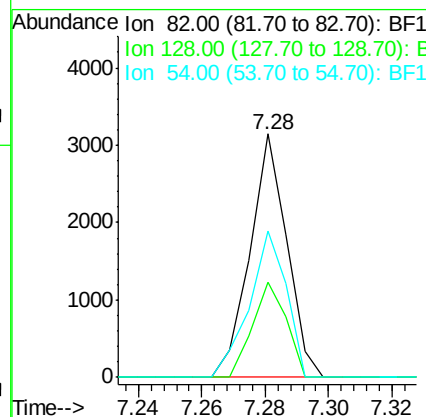
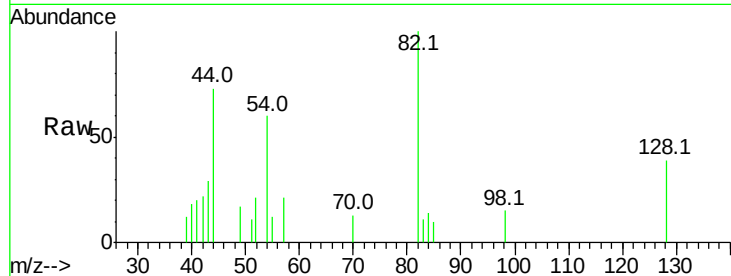
#23  
Nitrobenzene-d5  
Concen: 0.150 ng  
RT: 7.28 min Scan# 883  
Delta R.T. -0.01 min  
Lab File: BF102014.D  
Acq: 11 Jan 2018 12:44

Instrument :  
BNA\_F  
ClientSampleId :  
WC-50-01DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 38.8  | 36.1  | 54.1  |
| 54      | 60.0  | 41.4  | 62.2  |

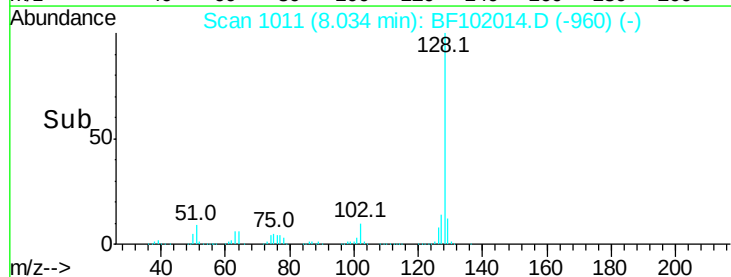
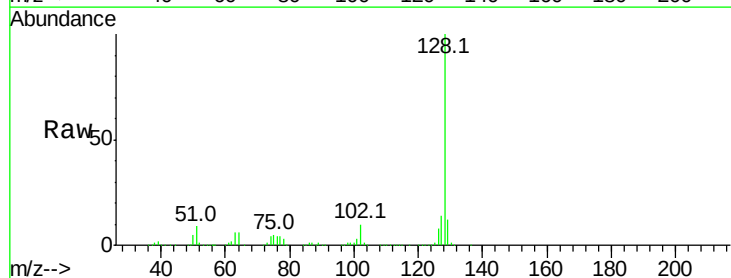
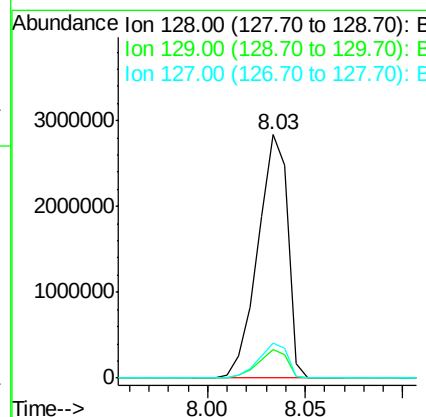
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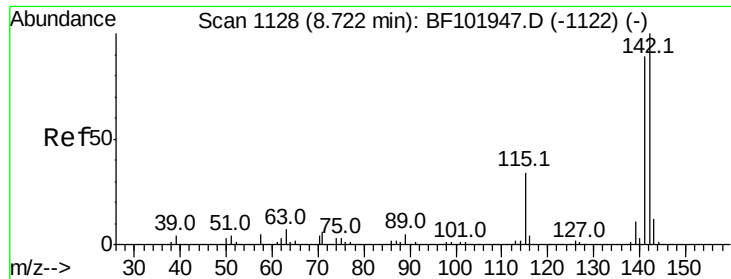
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#31  
Naphthalene  
Concen: 60.445 ng  
RT: 8.03 min Scan# 1011  
Delta R.T. 0.00 min  
Lab File: BF102014.D  
Acq: 11 Jan 2018 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.8  | 8.8   | 13.2  |
| 127     | 14.3  | 10.9  | 16.3  |





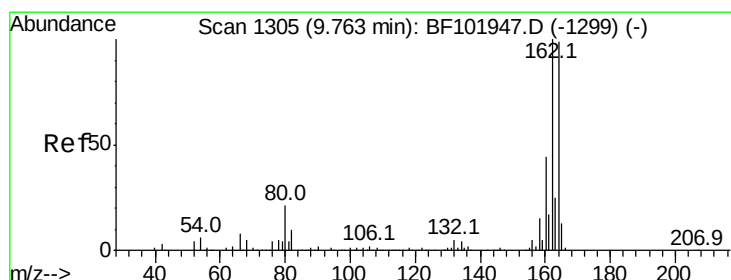
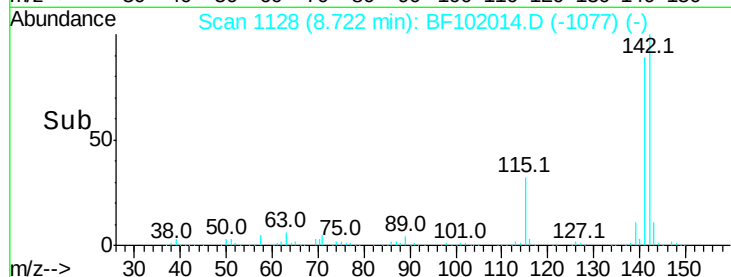
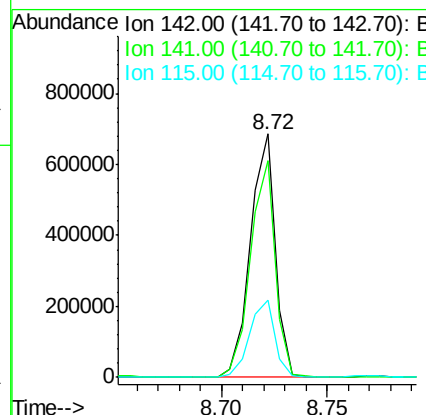
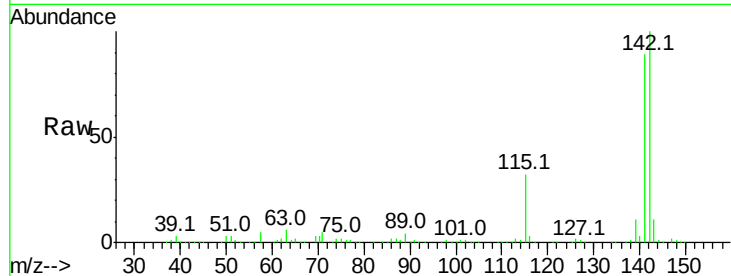
#37  
2-Methylnaphthalene  
Concen: 17.252 ng  
RT: 8.72 min Scan# 1128  
Delta R.T. 0.00 min  
Lab File: BF102014.D  
Acq: 11 Jan 2018 12:44

Instrument :  
BNA\_F  
ClientSampled :  
WC-50-01DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.9  | 70.8  | 106.2 |
| 115     | 31.6  | 26.1  | 39.1  |

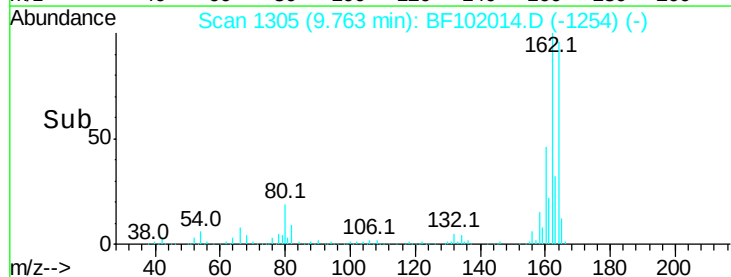
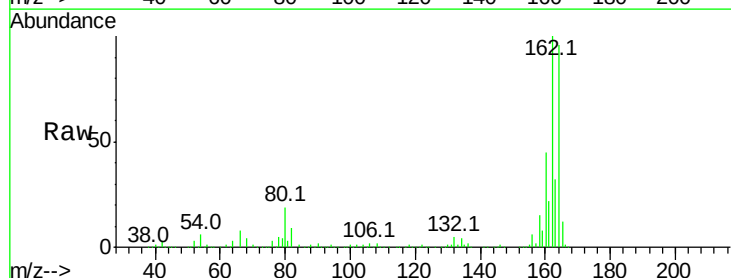
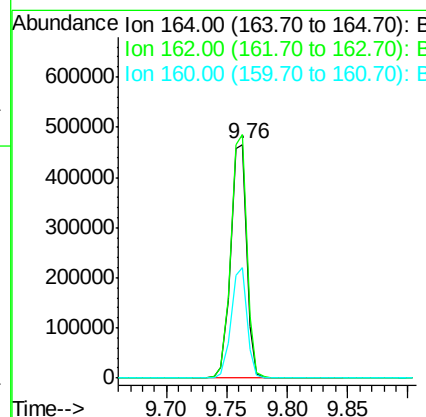
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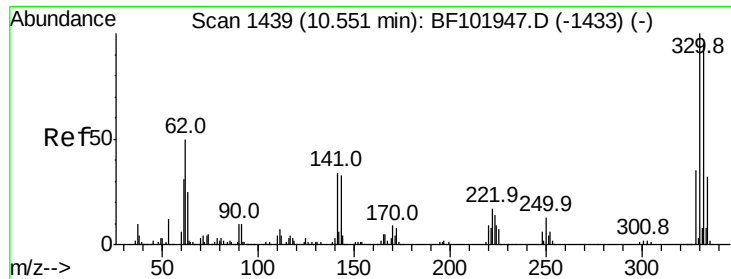
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. 0.00 min  
Lab File: BF102014.D  
Acq: 11 Jan 2018 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.1 | 86.1  | 129.1 |
| 160     | 47.3  | 38.3  | 57.5  |





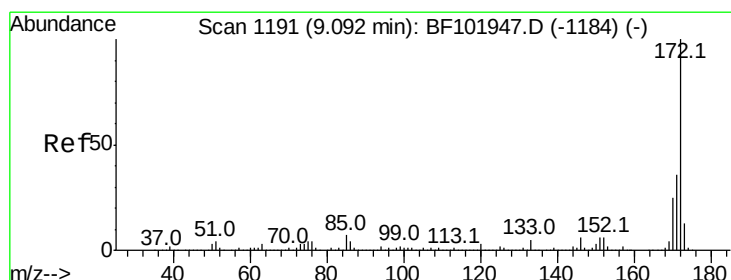
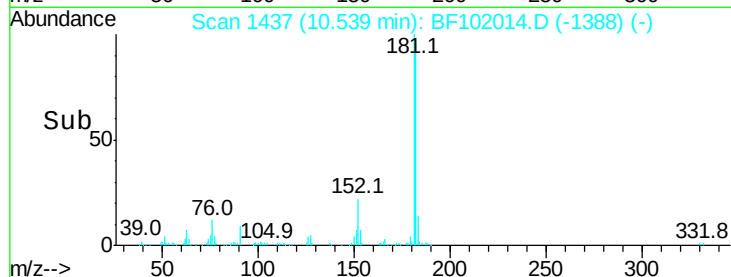
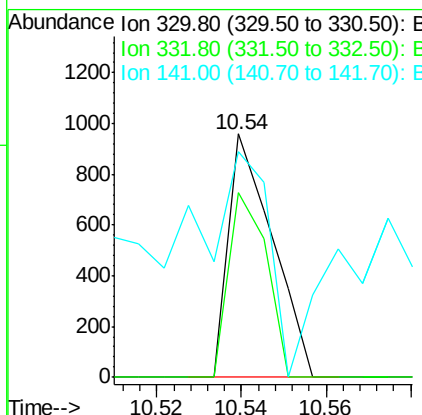
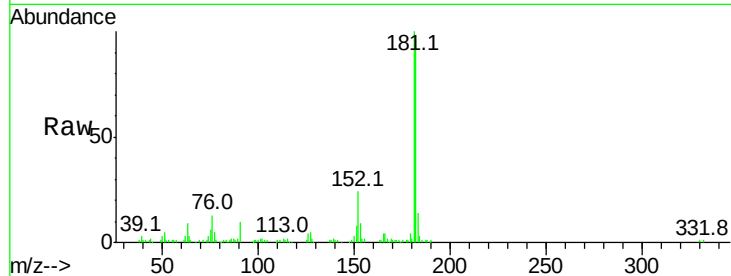
#41  
 2,4,6-Tribromophenol  
 Concen: 0.184 ng  
 RT: 10.54 min Scan# 1437  
 Delta R.T. -0.01 min  
 Lab File: BF102014.D  
 Acq: 11 Jan 2018 12:44

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-50-01DL

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 330     | 100   |       |        |
| 332     | 65.1  | 77.0  | 115.6# |
| 141     | 142.0 | 29.9  | 44.9#  |

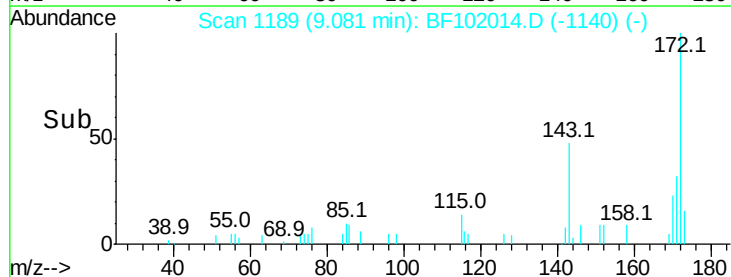
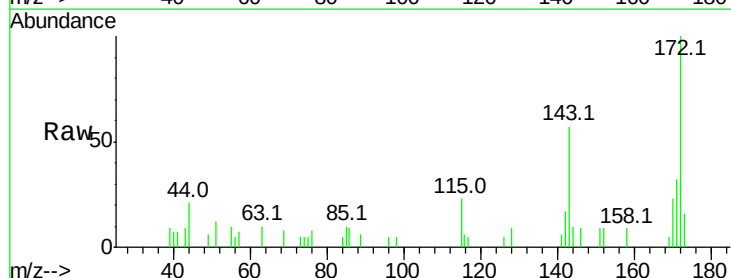
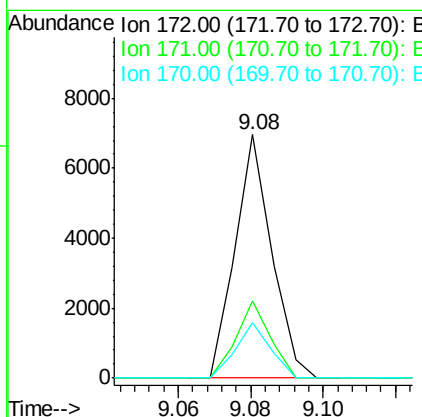
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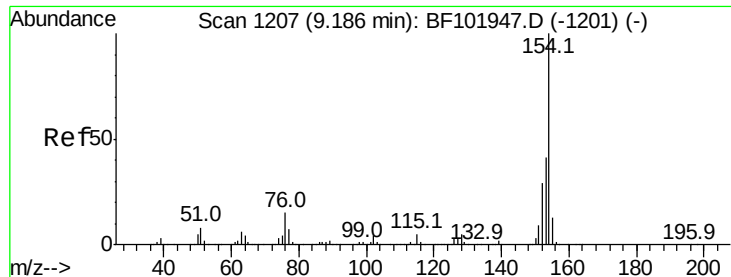


#44  
 2-Fluorobiphenyl  
 Concen: 0.177 ng  
 RT: 9.08 min Scan# 1189  
 Delta R.T. -0.01 min  
 Lab File: BF102014.D  
 Acq: 11 Jan 2018 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 31.6  | 29.7  | 44.5  |
| 170     | 22.8  | 19.6  | 29.4  |







#45

1,1'-Biphenyl

Concen: 4.038 ng

RT: 9.18 min Scan# 1206

Delta R.T. -0.01 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

Instrument :

BNA\_F

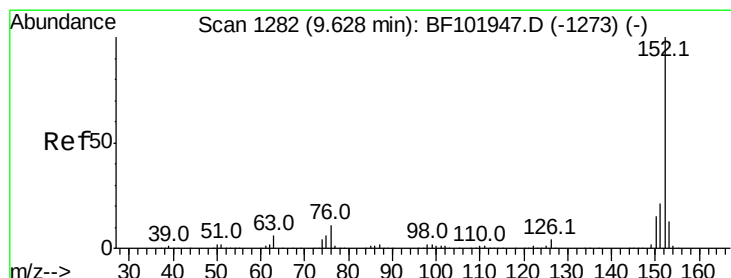
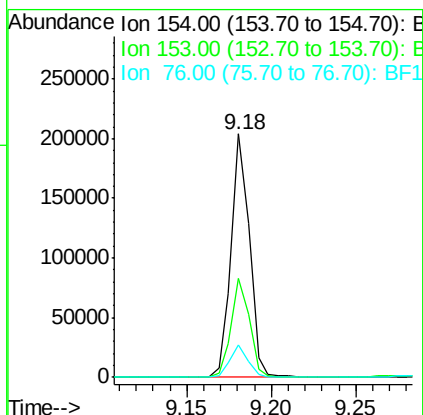
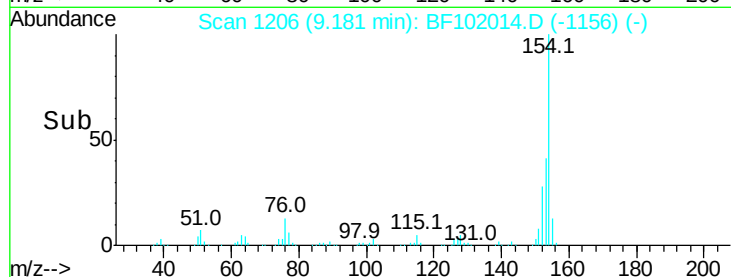
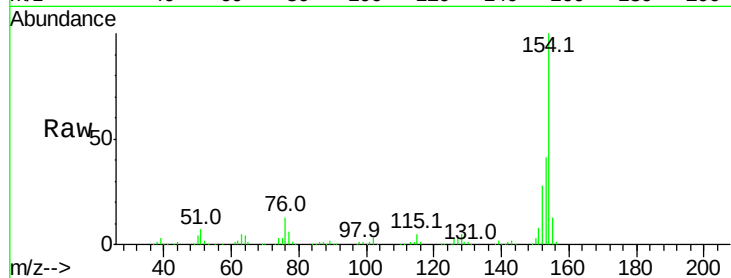
ClientSampled :

WC-50-01DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 154191 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 40.8  | 21.3  | 61.3   |
| 76        | 13.1  | 0.0   | 34.0   |

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#48

Acenaphthylene

Concen: 12.738 ng

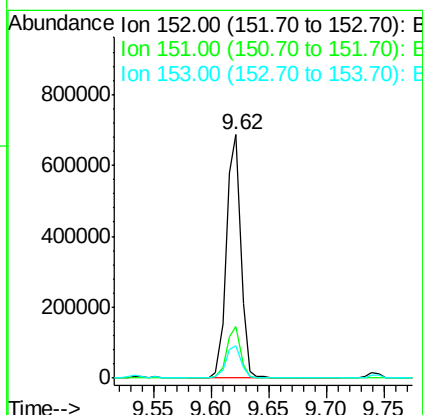
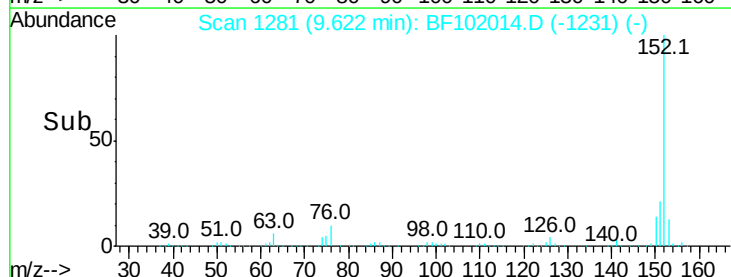
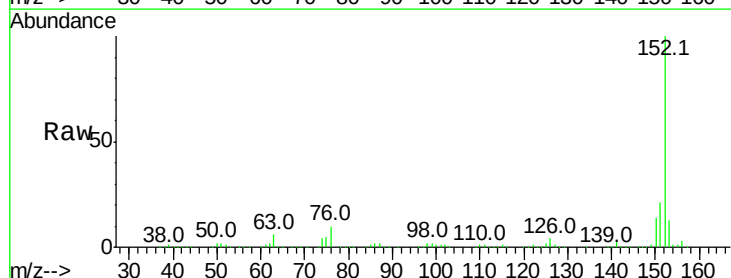
RT: 9.62 min Scan# 1281

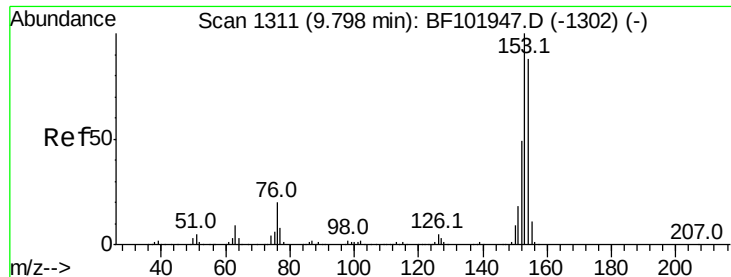
Delta R.T. -0.01 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 598601 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 21.0  | 16.3  | 24.5   |
| 153       | 13.4  | 10.7  | 16.1   |





#51

Acenaphthene

Concen: 3.951 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

Instrument :

BNA\_F

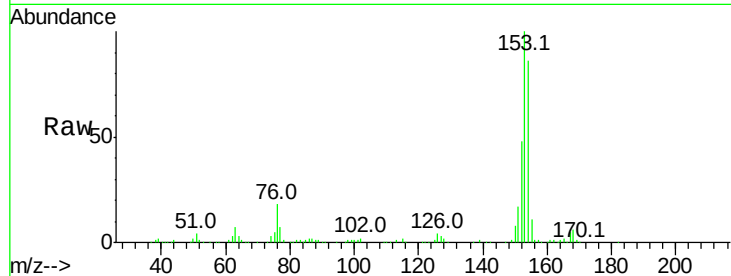
ClientSampleId :

WC-50-01DL

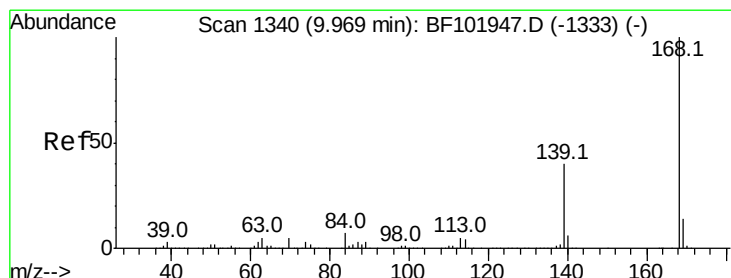
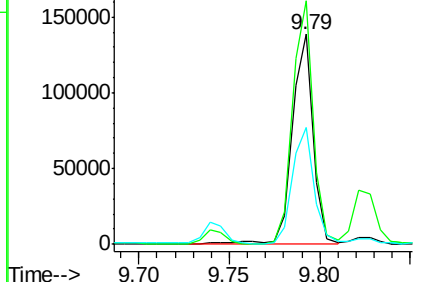
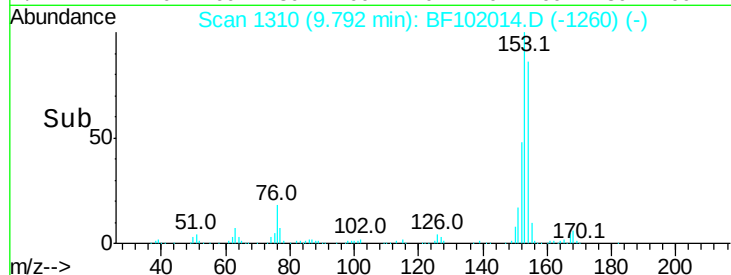
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 154   | Resp: | 112684 |
| Ion      | Ratio | Lower | Upper  |
| 154      | 100   |       |        |
| 153      | 115.9 | 91.2  | 136.8  |
| 152      | 55.3  | 43.8  | 65.8   |

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Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 12.578 ng

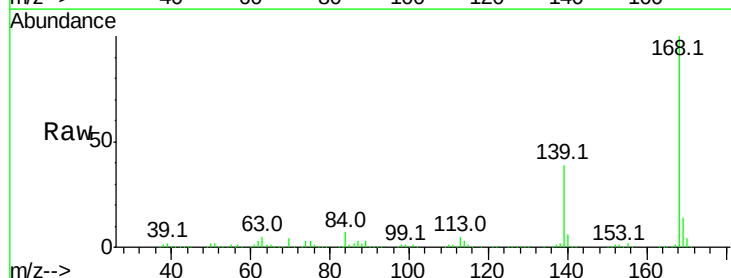
RT: 9.96 min Scan# 1339

Delta R.T. -0.01 min

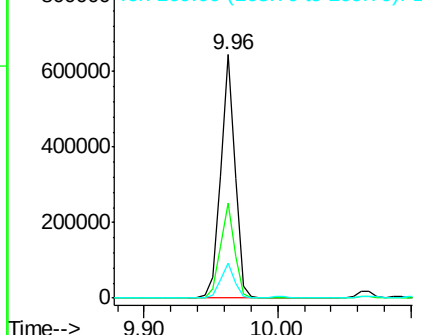
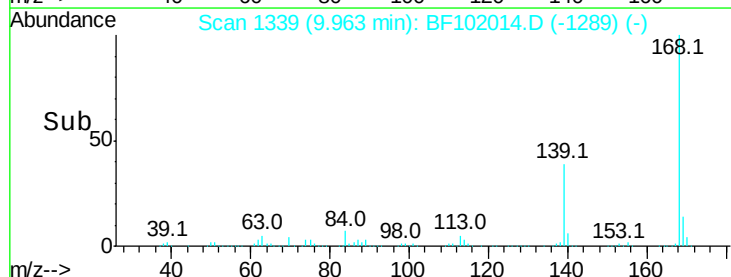
Lab File: BF102014.D

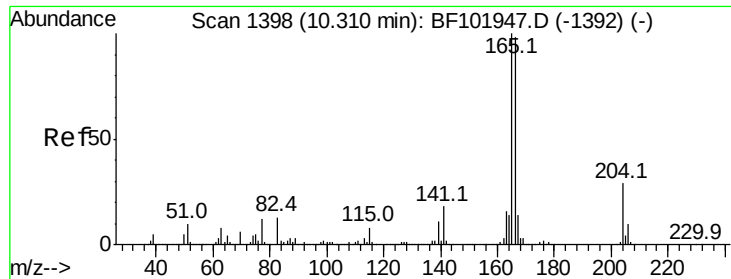
Acq: 11 Jan 2018 12:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 168   | Resp: | 492395 |
| Ion      | Ratio | Lower | Upper  |
| 168      | 100   |       |        |
| 139      | 39.2  | 30.1  | 45.1   |
| 169      | 14.2  | 10.9  | 16.3   |



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E





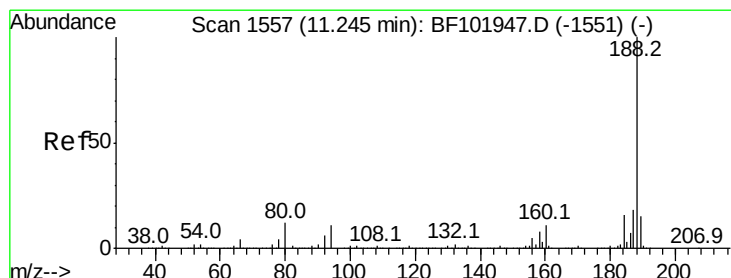
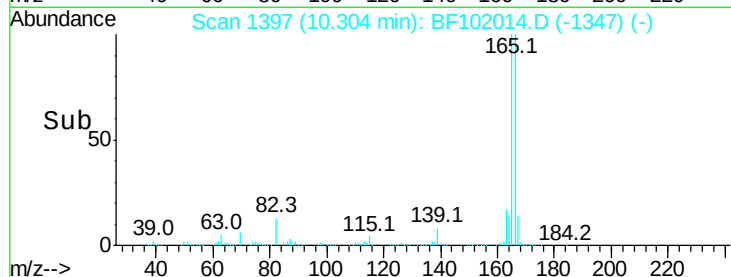
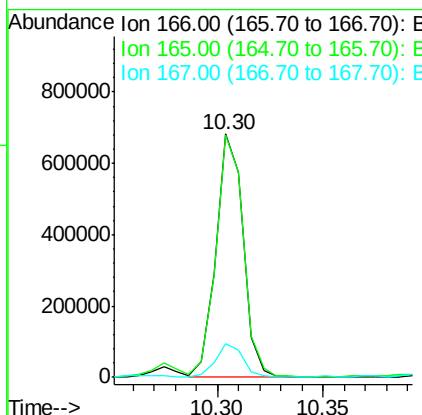
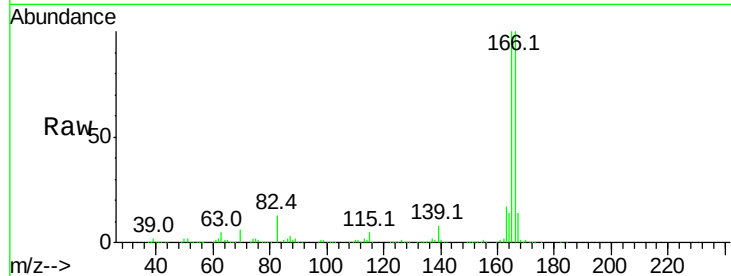
#57  
**Fluorene**  
 Concen: 22.595 ng  
 RT: 10.30 min Scan# 1397  
 Delta R.T. -0.00 min  
 Lab File: BF102014.D  
 Acq: 11 Jan 2018 12:44

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-50-01DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.6  | 79.8  | 119.8 |
| 167     | 13.9  | 10.6  | 16.0  |

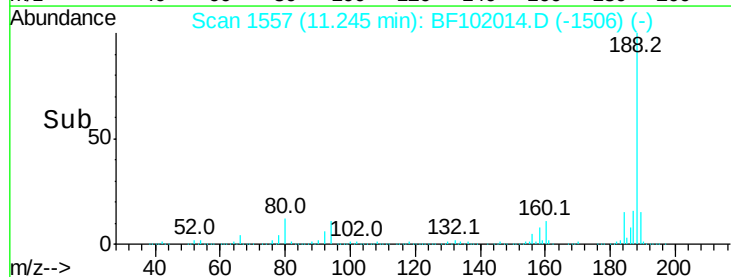
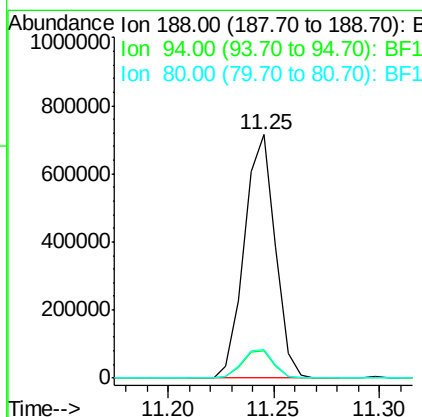
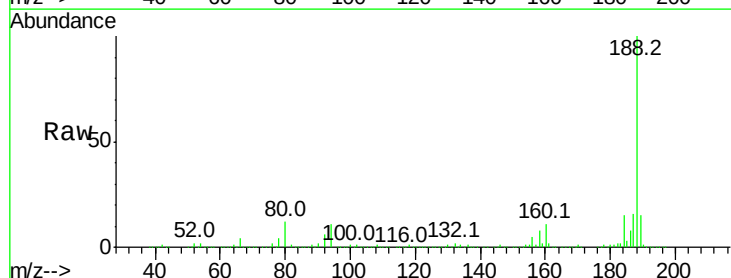
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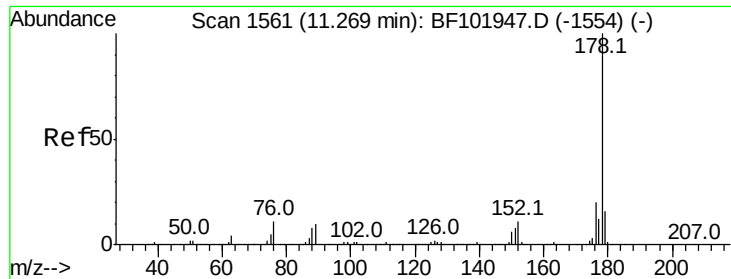
Sohil  
 1/12/2018 10:37:05 AM



#63  
**Phenanthrene-d10**  
 Concen: 20.000 ng  
 RT: 11.25 min Scan# 1557  
 Delta R.T. 0.00 min  
 Lab File: BF102014.D  
 Acq: 11 Jan 2018 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.3  | 8.5   | 12.7  |
| 80      | 11.8  | 9.2   | 13.8  |





#70

Phenanthrene

Concen: 46.166 ng

RT: 11.27 min Scan# 1562

Delta R.T. 0.01 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

Instrument :

BNA\_F

ClientSampled :

WC-50-01DL

Tot Ion:178 Resp: 1952089

Ion Ratio Lower Upper

178 100

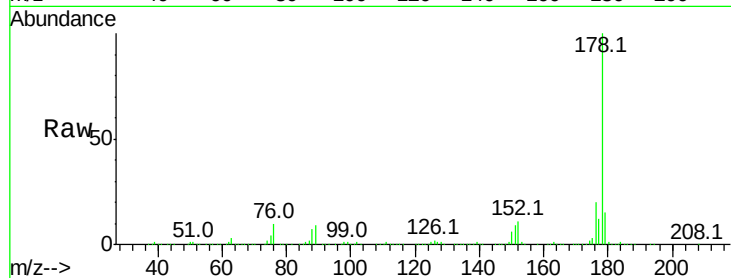
176 20.2 15.8 23.8

179 15.4 13.0 19.6

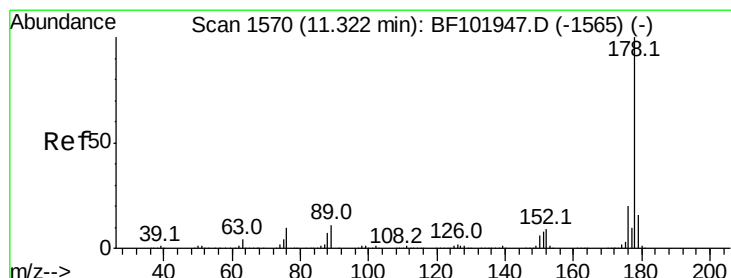
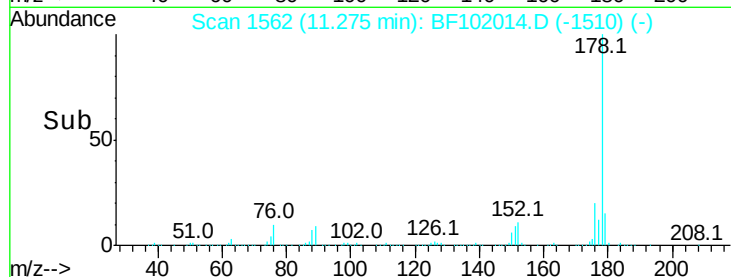
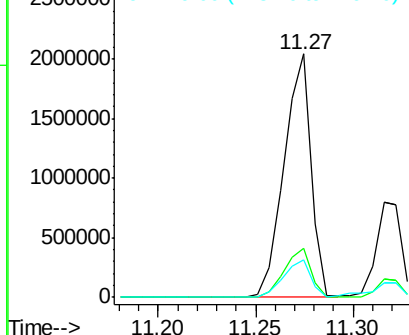
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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 16.442 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

Tgt Ion:178 Resp: 705104

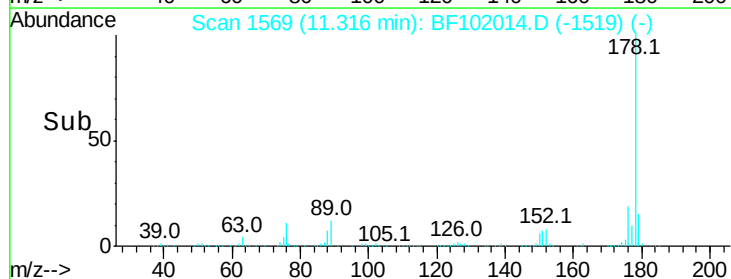
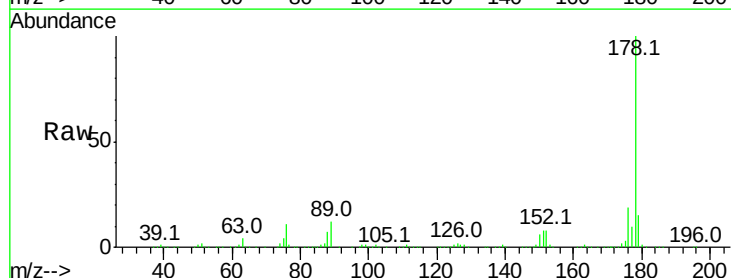
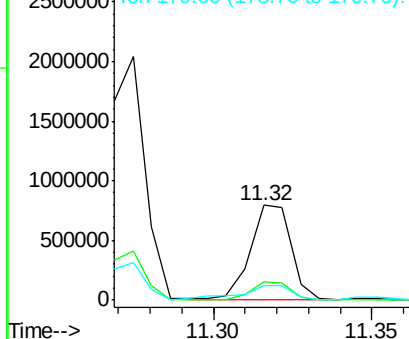
Ion Ratio Lower Upper

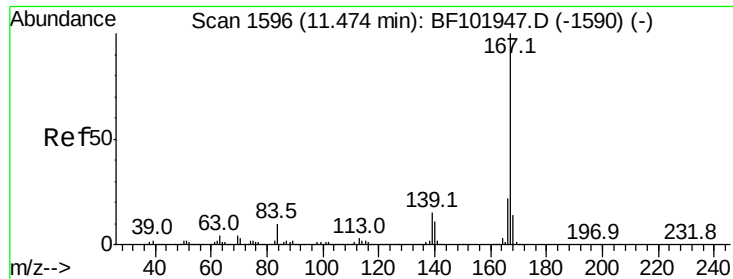
178 100

176 19.3 15.4 23.2

179 15.3 12.6 19.0

Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 5.424 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

Instrument :

BNA\_F

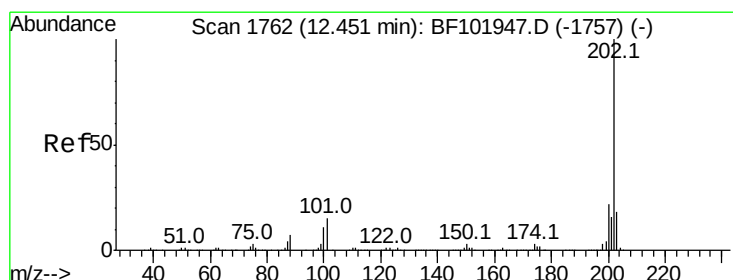
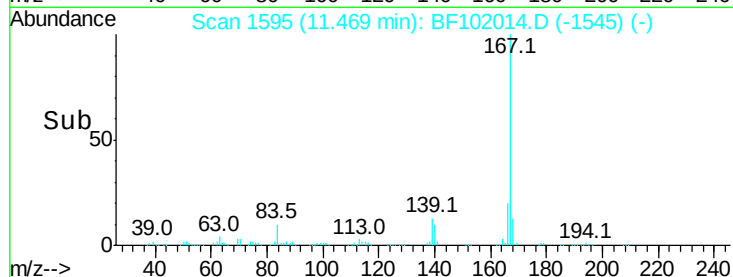
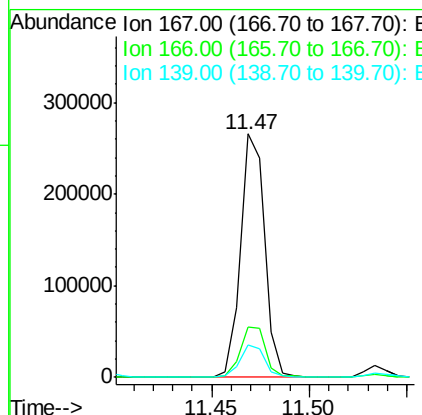
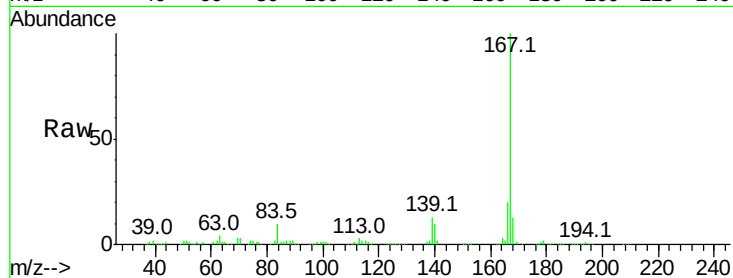
ClientSampleId :

WC-50-01DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 167   | Resp: | 228634 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 20.5  | 17.6  | 26.4   |
| 139       | 13.2  | 10.9  | 16.3   |

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#74

Fluoranthene

Concen: 31.210 ng

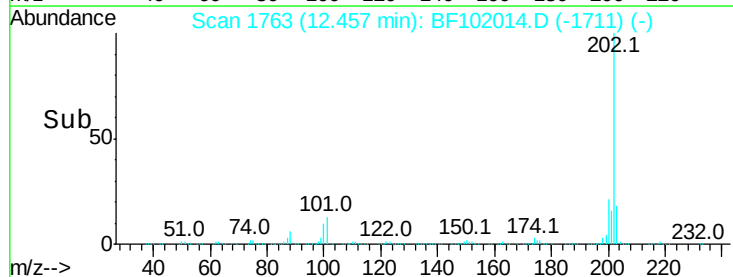
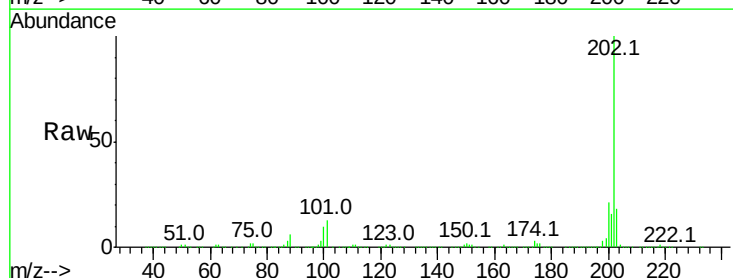
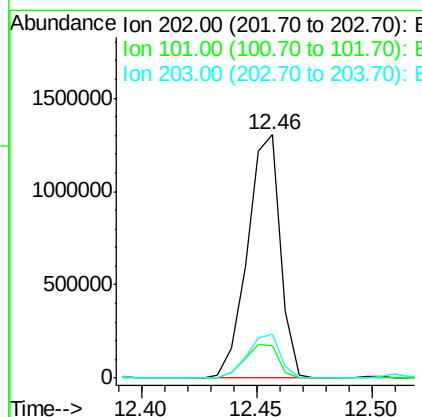
RT: 12.46 min Scan# 1763

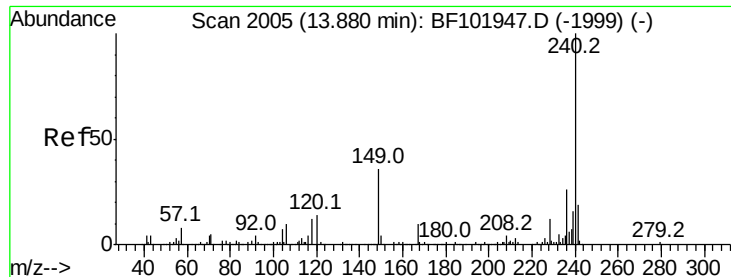
Delta R.T. 0.01 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1298398 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 13.3  | 0.0   | 34.1    |
| 203       | 18.0  | 0.0   | 38.1    |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

Instrument :

BNA\_F

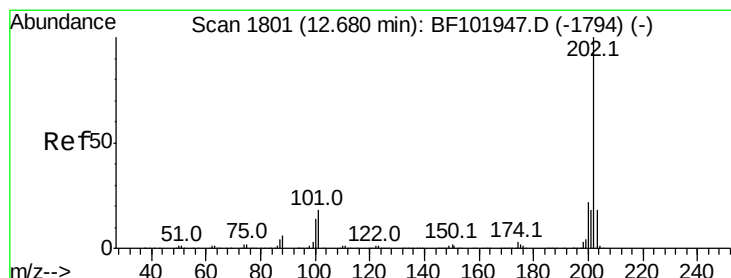
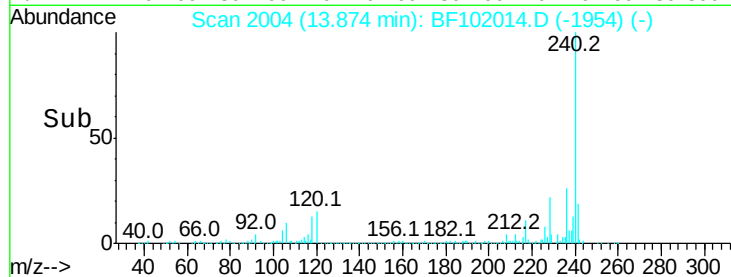
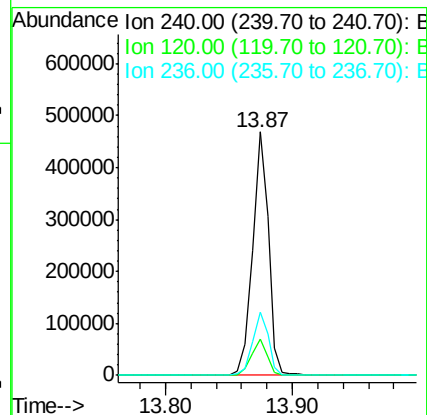
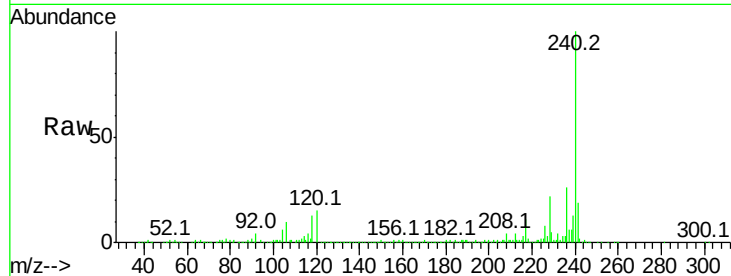
ClientSampleId :

WC-50-01DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 15.1  | 9.5   | 14.3# |
| 236     | 25.8  | 20.7  | 31.1  |

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#77

Pyrene

Concen: 29.658 ng

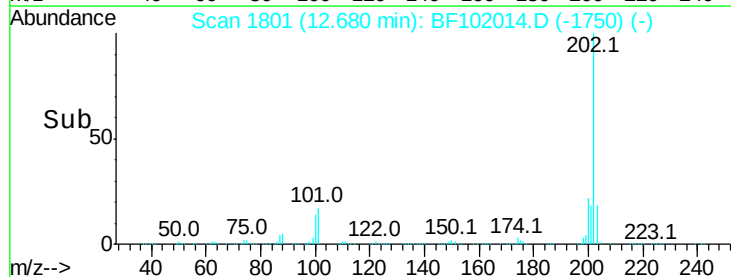
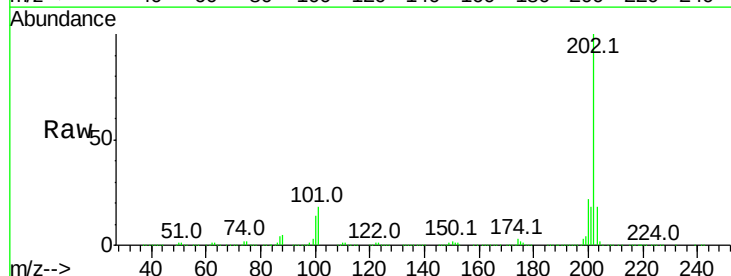
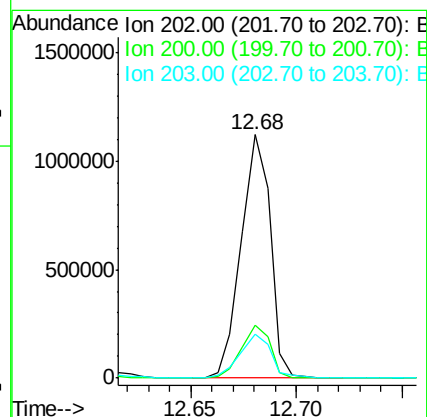
RT: 12.68 min Scan# 1801

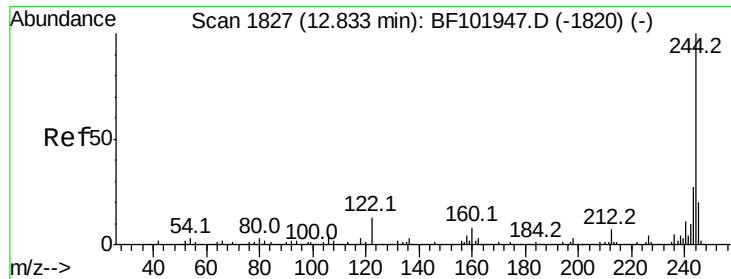
Delta R.T. 0.00 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.7  | 17.4  | 26.2  |
| 203     | 18.2  | 14.3  | 21.5  |





#78

Terphenyl-d14

Concen: 0.250 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

Instrument :

BNA\_F

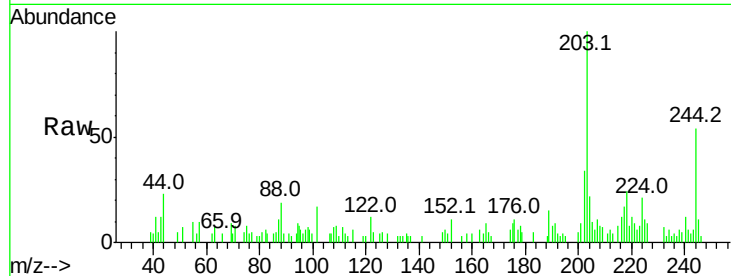
ClientSampleId :

WC-50-01DL

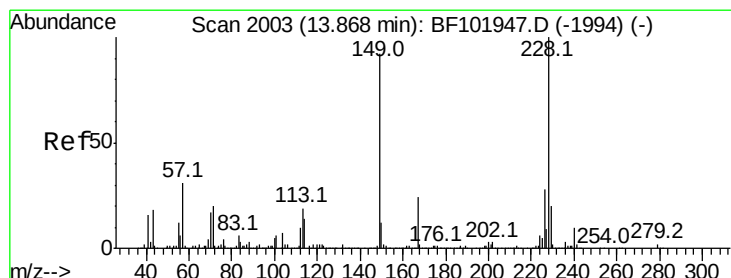
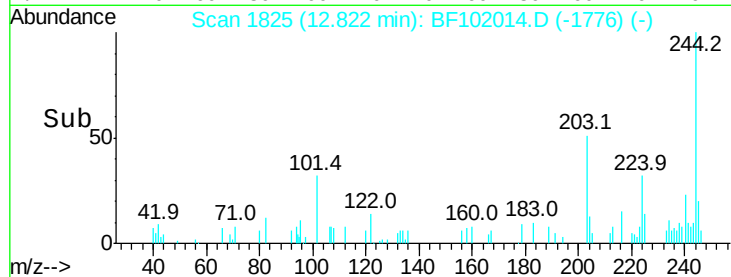
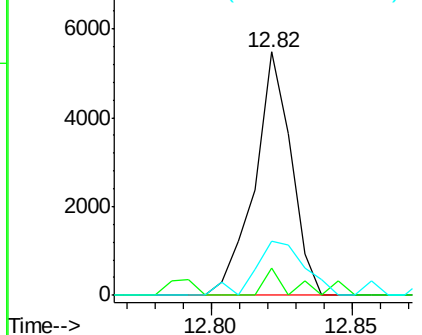
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 11.2  | 5.4   | 8.0#  |
| 122     | 22.2  | 11.0  | 16.4# |

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Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 15.989 ng m

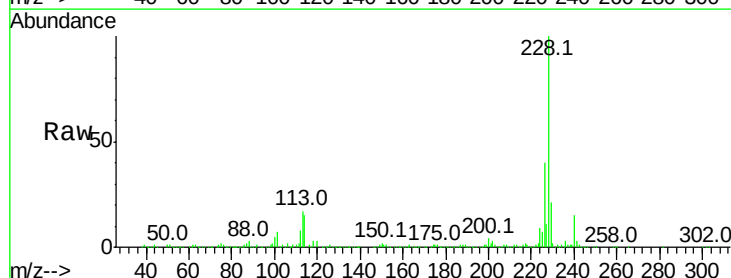
RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

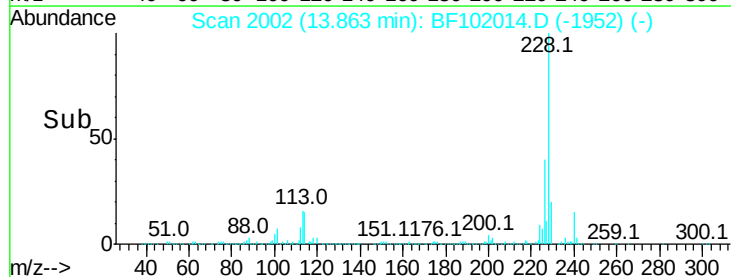
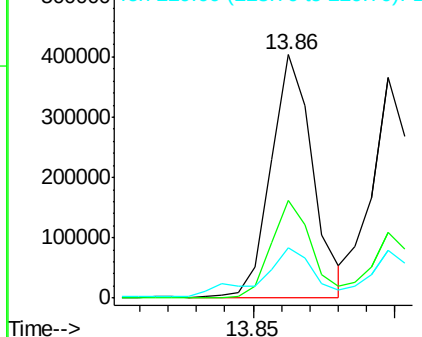
Lab File: BF102014.D

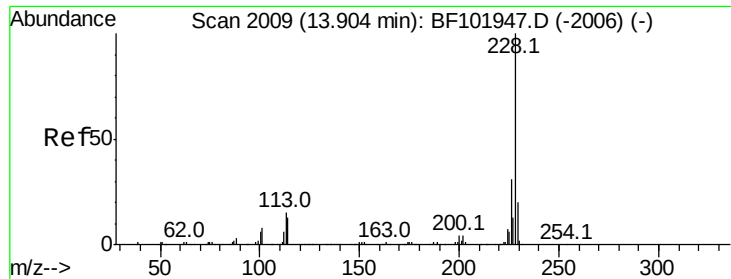
Acq: 11 Jan 2018 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 40.3  | 22.6  | 33.8# |
| 229     | 20.7  | 15.8  | 23.6  |



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





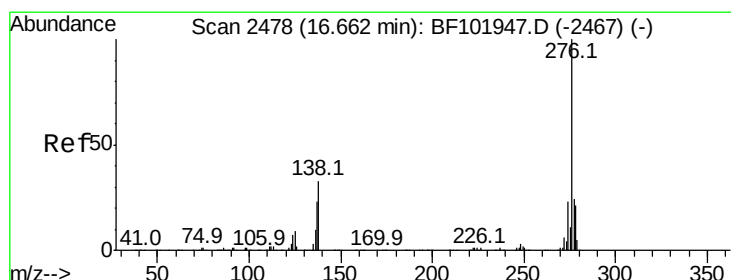
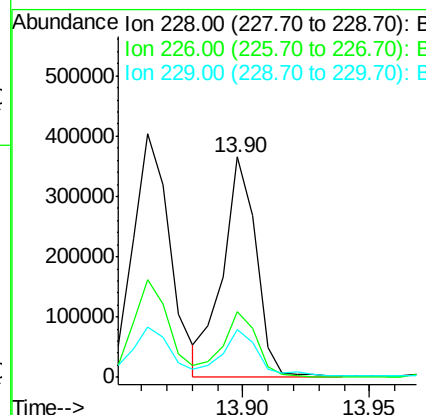
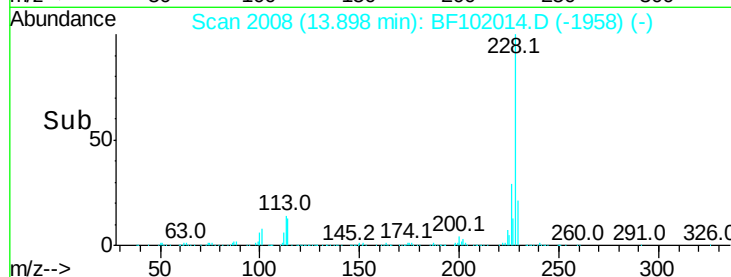
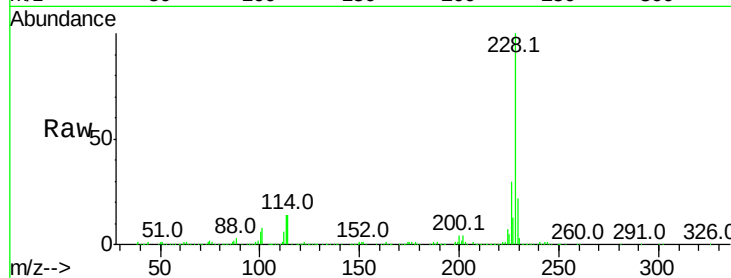
#82  
Chrysene  
Concen: 12.202 ng  
RT: 13.90 min Scan# 2008  
Delta R.T. -0.01 min  
Lab File: BF102014.D  
Acq: 11 Jan 2018 12:44

Instrument :  
BNA\_F  
ClientSampleID :  
WC-50-01DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 331264 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.5  | 25.0  | 37.6   |
| 229       | 21.9  | 16.2  | 24.4   |

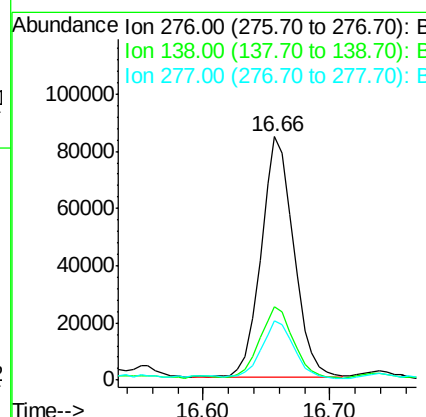
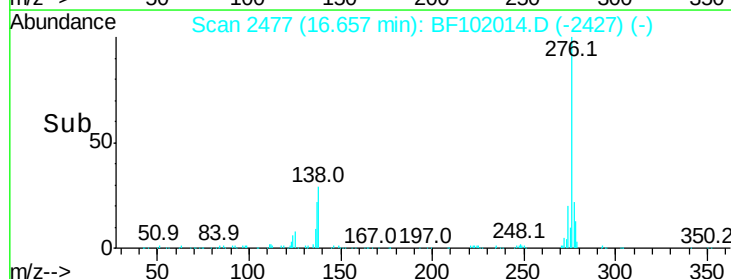
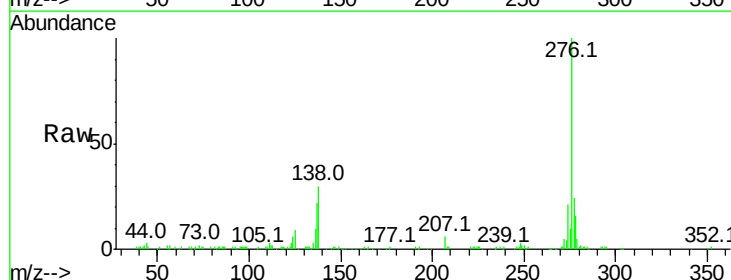
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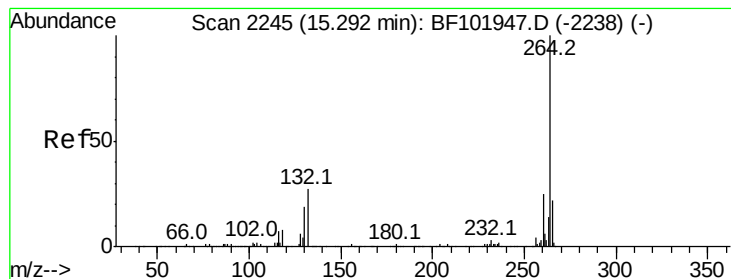


#85  
Indeno(1,2,3-cd)pyrene  
Concen: 7.643 ng  
RT: 16.66 min Scan# 2477  
Delta R.T. -0.01 min  
Lab File: BF102014.D  
Acq: 11 Jan 2018 12:44

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 151020 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 30.2  | 25.0  | 37.6   |
| 277       | 24.0  | 20.1  | 30.1   |







#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.29 min Scan# 2245

Delta R.T. 0.00 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

Instrument :

BNA\_F

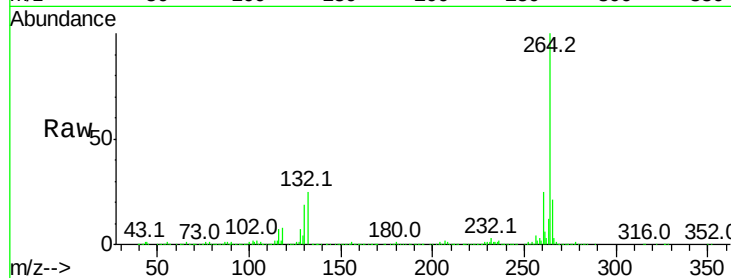
ClientSampleId :

WC-50-01DL

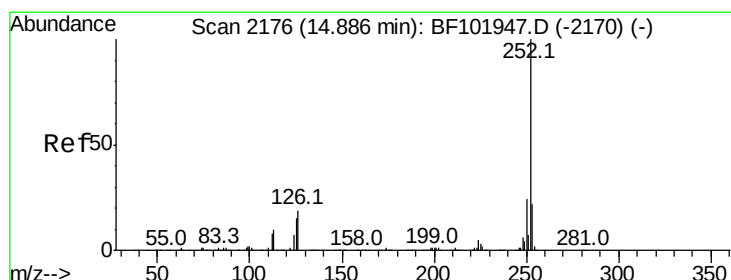
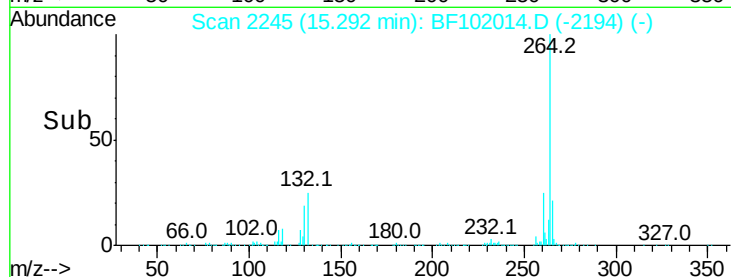
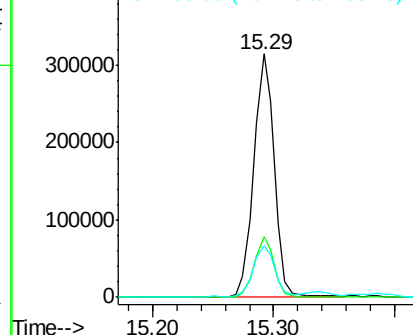
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 375188 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.9  | 19.2  | 28.8   |
| 265       | 21.3  | 17.5  | 26.3   |

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Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 13.400 ng m

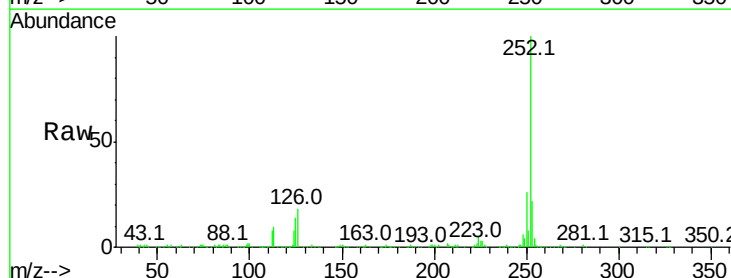
RT: 14.89 min Scan# 2176

Delta R.T. 0.00 min

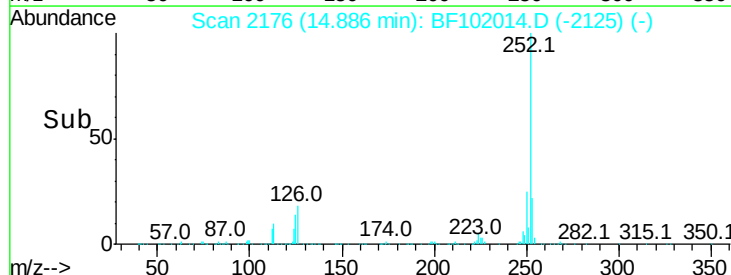
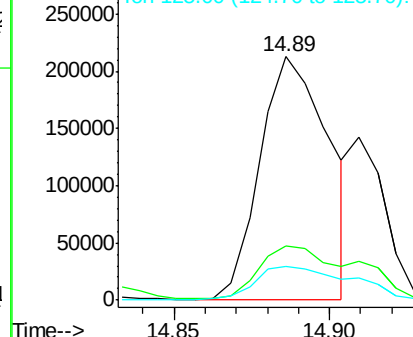
Lab File: BF102014.D

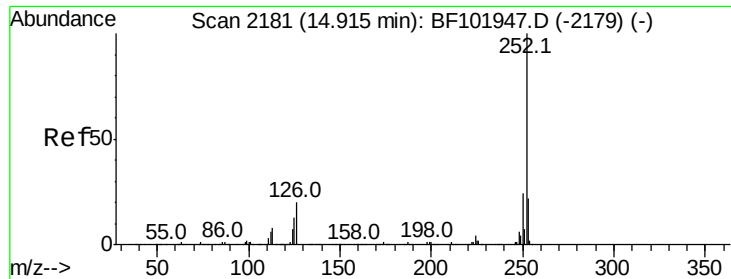
Acq: 11 Jan 2018 12:44

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 327804 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.3  | 17.0  | 25.6   |
| 125       | 13.9  | 9.0   | 13.6#  |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 4.687 ng

RT: 14.91 min Scan# 2180

Delta R.T. -0.01 min

Lab File: BF102014.D

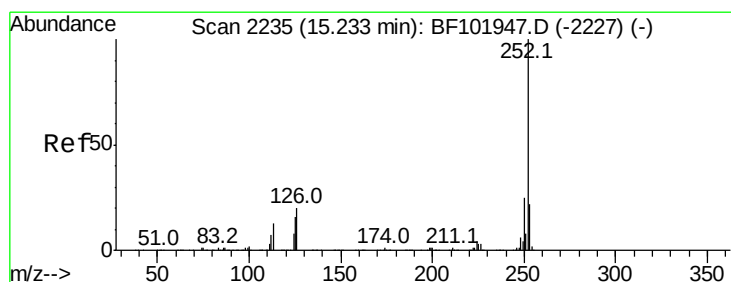
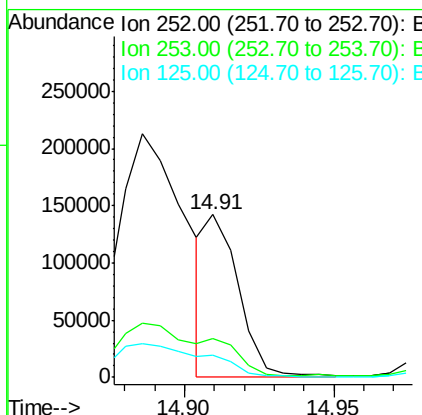
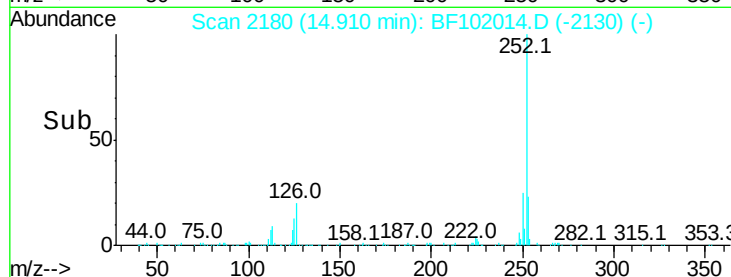
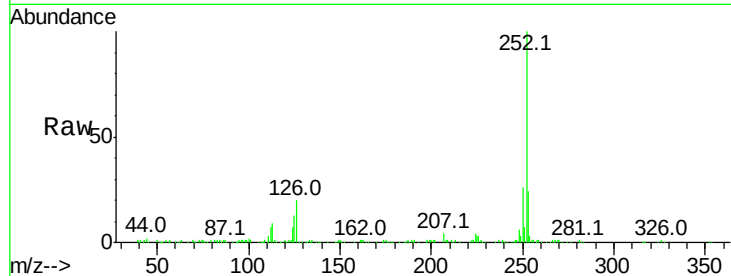
Acq: 11 Jan 2018 12:44

Instrument :  
BNA\_F  
ClientSampleID :  
WC-50-01DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 17.9  | 26.9  |
| 125     | 13.5  | 10.2  | 15.2  |

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#89

Benzo(a)pyrene

Concen: 11.974 ng

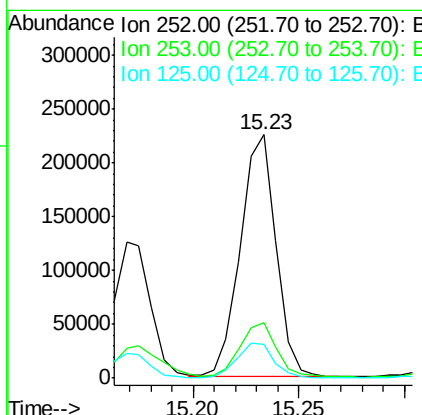
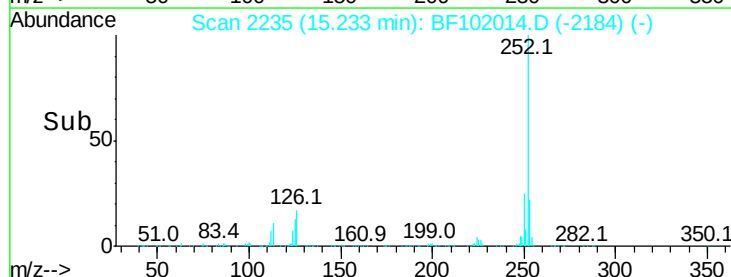
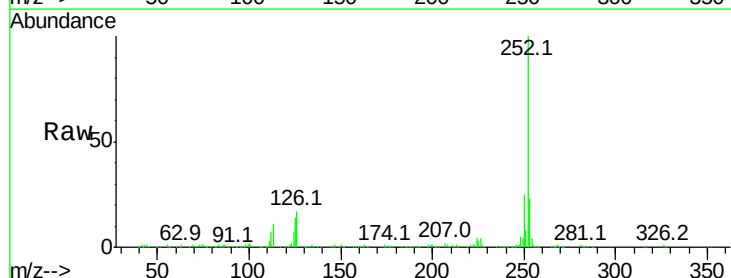
RT: 15.23 min Scan# 2235

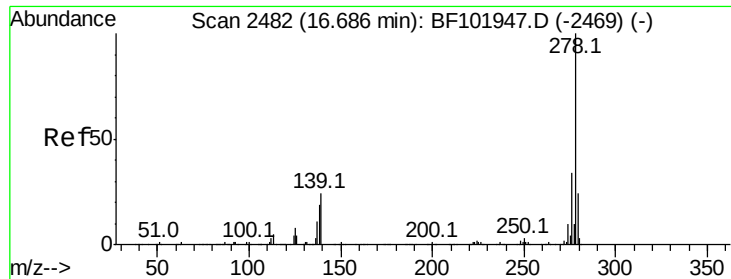
Delta R.T. 0.00 min

Lab File: BF102014.D

Acq: 11 Jan 2018 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 17.1  | 25.7  |
| 125     | 13.7  | 9.8   | 14.6  |





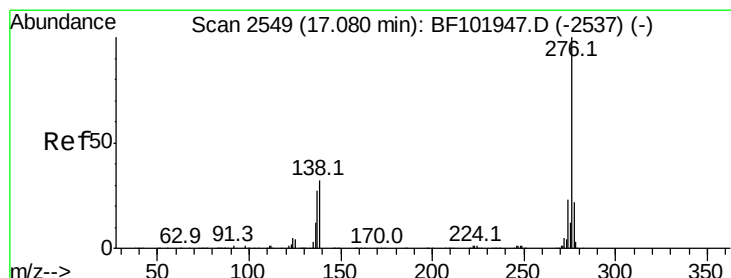
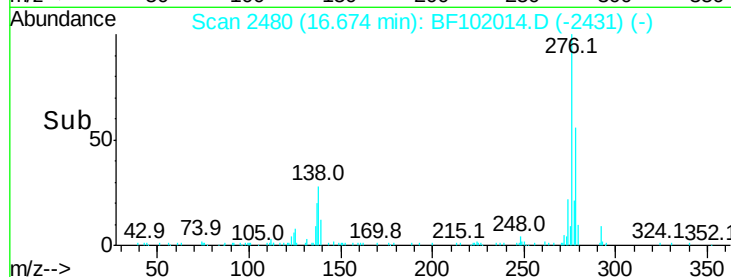
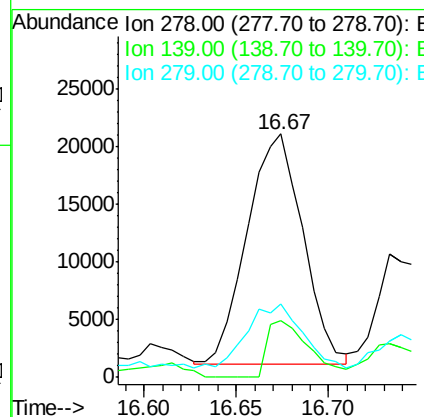
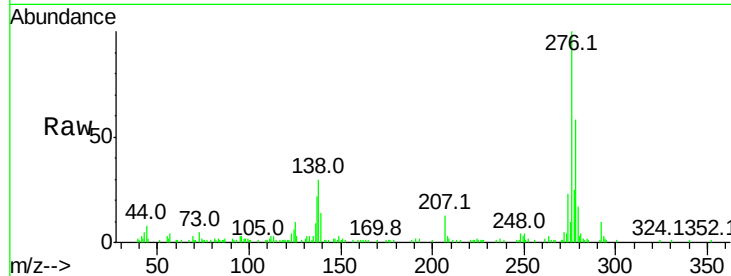
#90  
Dibenzo(a,h)anthracene  
Concen: 2.392 ng/mL  
RT: 16.67 min Scan# 2480  
Delta R.T. -0.01 min  
Lab File: BF102014.D  
Acq: 11 Jan 2018 12:44

Instrument :  
BNA\_F  
ClientSampleID :  
WC-50-01DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 23.4  | 15.9  | 23.9  |
| 279     | 30.1  | 19.0  | 28.4  |

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#91  
Benzo(g,h,i)perylene  
Concen: 7.905 ng/mL  
RT: 17.07 min Scan# 2548  
Delta R.T. -0.01 min  
Lab File: BF102014.D  
Acq: 11 Jan 2018 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.0  | 17.9  | 26.9  |
| 138     | 31.1  | 21.8  | 32.8  |

