

Data Path : U:\HPCHEM1\BNA F\DATA\BF101915\  
 Data File : BF082388.D  
 Acq On : 20 Oct 2015 7:53  
 Operator : UM/IZ  
 Sample : G4046-02DL 50X  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GOODLUCK58DL

Manual Integrations  
 APPROVED

MMdadoda  
 10/20/2015 6:29:22 PM

Quant Time: Oct 20 13:13:02 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 12 01:46:21 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 87643    | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 8.09  | 136  | 363932   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10      | 9.85  | 164  | 183232   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10      | 11.35 | 188  | 293126   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 14.01 | 240  | 226533   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.51 | 264  | 225265   | 20.00 | ng    | 0.07     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 5) 2-Fluorophenol           | 5.41  | 112 | 5163  | 1.19 | ng | -0.02 |
| 7) Phenol-d6                | 6.45  | 99  | 8056  | 1.43 | ng | -0.03 |
| 23) Nitrobenzene-d5         | 7.37  | 82  | 4367  | 0.81 | ng | -0.05 |
| 41) 2,4,6-Tribromophenol    | 10.64 | 330 | 2029  | 1.18 | ng | -0.03 |
| 44) 2-Fluorobiphenyl        | 9.17  | 172 | 16272 | 1.47 | ng | -0.04 |
| 78) Terphenyl-d14           | 12.93 | 244 | 15205 | 1.78 | ng | -0.03 |

|                            |       |     |         |        |    |    |
|----------------------------|-------|-----|---------|--------|----|----|
| Target Compounds           |       |     |         | Qvalue |    |    |
| 37) 2-Methylnaphthalene    | 8.81  | 142 | 47952   | 4.38   | ng | 98 |
| 45) 1,1'-Biphenyl          | 9.27  | 154 | 41010   | 2.94   | ng | 98 |
| 51) Acenaphthene           | 9.89  | 154 | 200738  | 19.51  | ng | 97 |
| 54) Dibenzofuran           | 10.06 | 168 | 439449  | 31.12  | ng | 97 |
| 57) Fluorene               | 10.40 | 166 | 517841  | 44.64  | ng | 98 |
| 70) Phenanthrene           | 11.38 | 178 | 2932176 | 204.08 | ng | 95 |
| 71) Anthracene             | 11.42 | 178 | 784913  | 53.01  | ng | 98 |
| 72) Carbazole              | 11.58 | 167 | 424041  | 31.40  | ng | 99 |
| 74) Fluoranthene           | 12.57 | 202 | 2169521 | 140.59 | ng | 96 |
| 77) Pyrene                 | 12.80 | 202 | 1487296 | 110.63 | ng | 99 |
| 80) Benzo(a)anthracene     | 14.00 | 228 | 399358  | 33.88  | ng | 99 |
| 82) Chrysene               | 14.04 | 228 | 517372m | 41.66  | ng |    |
| 85) Indeno(1,2,3-cd)pyrene | 16.92 | 276 | 35944m  | 3.64   | ng |    |
| 87) Benzo(b)fluoranthene   | 15.09 | 252 | 331028m | 24.15  | ng |    |
| 88) Benzo(k)fluoranthene   | 15.11 | 252 | 74694m  | 6.48   | ng |    |
| 89) Benzo(a)pyrene         | 15.44 | 252 | 91219   | 7.74   | ng | 98 |
| 91) Benzo(a,h,i)perylene   | 17.35 | 276 | 27086   | 2.89   | ng | 95 |

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

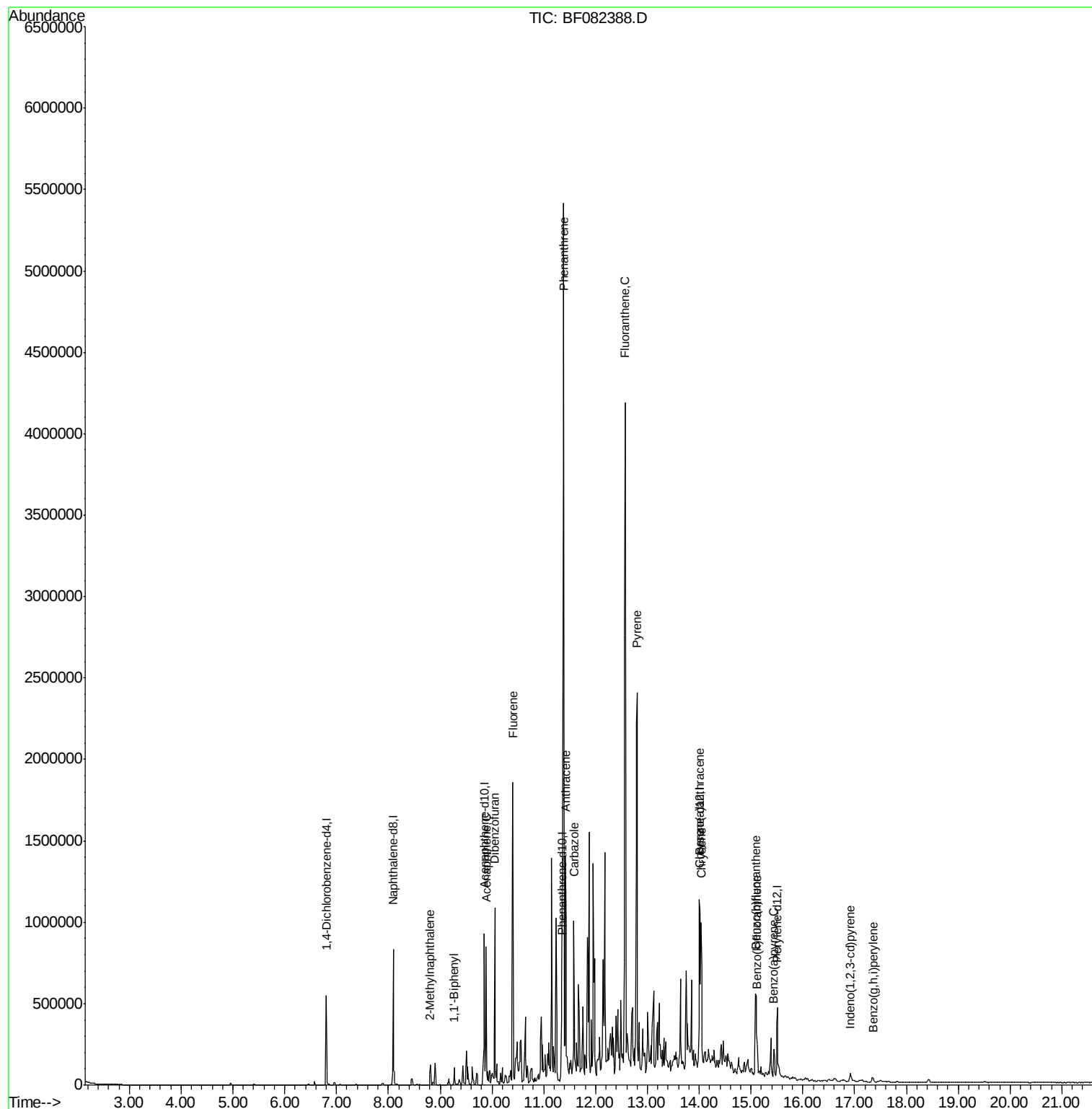
Data Path : U:\HPCHEM1\BNA F\DATA\BF101915\  
Data File : BF082388.D  
Acq On : 20 Oct 2015 7:53  
Operator : UM/IZ  
Sample : G4046-02DL 50X  
Misc :  
ALS Vial : 35 Sample Multiplier: 1

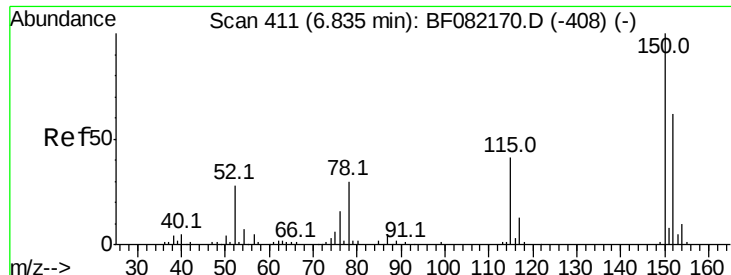
Instrument :  
BNA\_F  
ClientSampleId :  
GOODLUCK58DL

Manual Integrations  
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10/20/2015 6:29:22 PM

Quant Time: Oct 20 13:13:02 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 12 01:46:21 2015  
Response via : Initial Calibration





#1

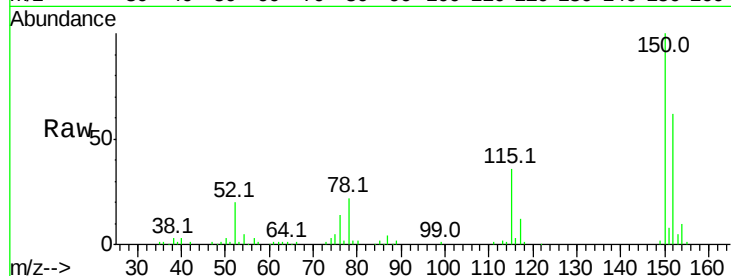
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.80 min Scan# 408  
Delta R.T. -0.03 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

Instrument :  
BNA\_F  
ClientSampleId :  
GOODLUCK58DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.3 | 129.0 | 193.4 |
| 115     | 57.9  | 52.1  | 78.1  |

Manual Integrations  
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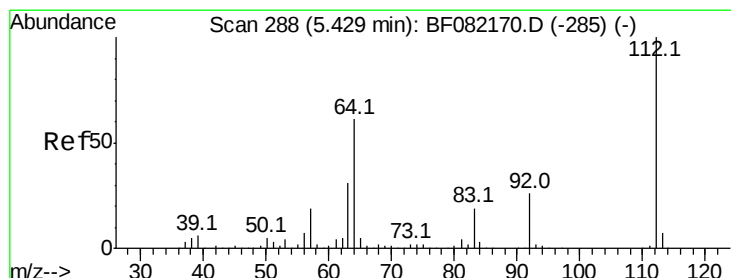
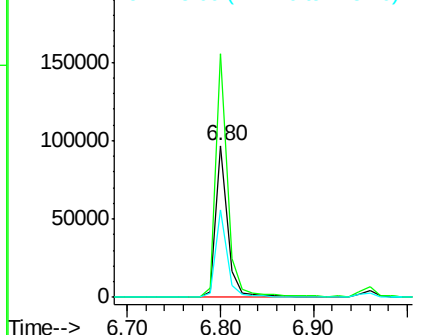
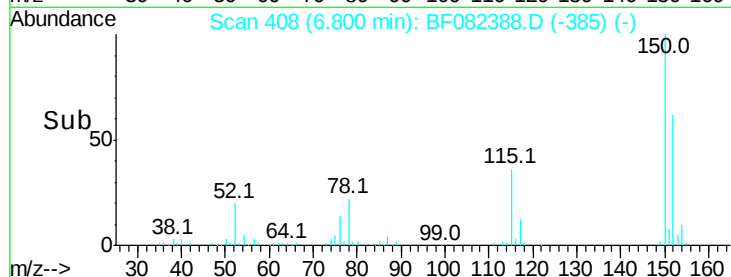


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

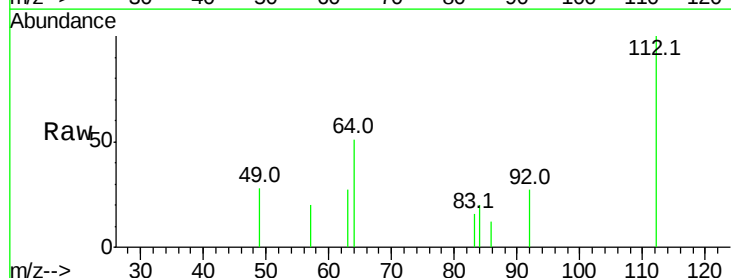
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 1.19 ng  
RT: 5.41 min Scan# 286  
Delta R.T. -0.02 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 50.7  | 48.6  | 73.0  |
| 63      | 27.3  | 25.1  | 37.7  |

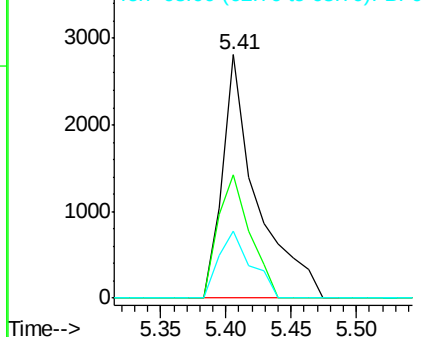
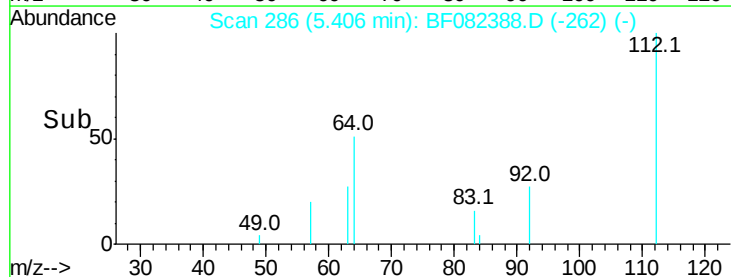


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 1.43 ng

RT: 6.45 min Scan# 377

Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

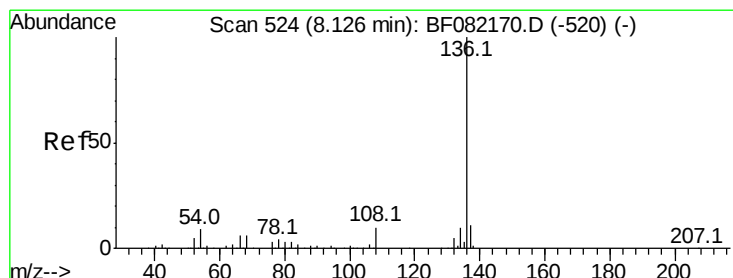
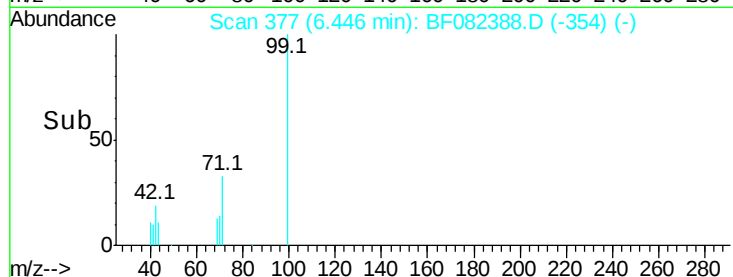
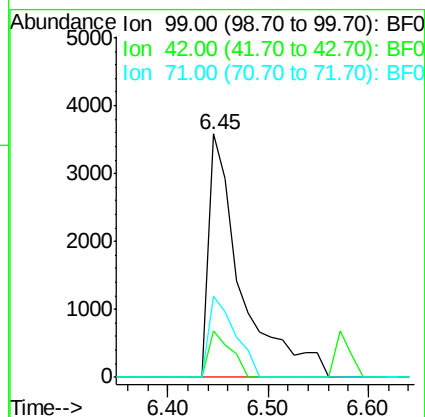
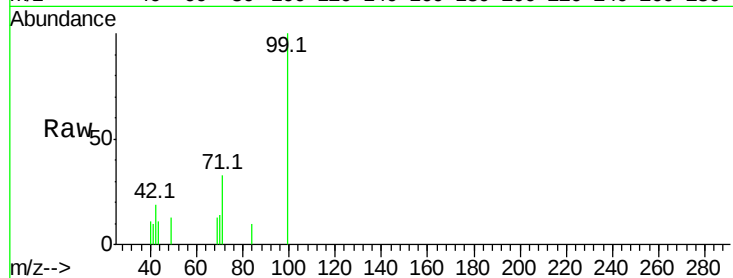
ClientSampleId :

GOODLUCK58DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 99    | Resp: | 8056 |
| Ion Ratio | Lower | Upper |      |
| 99        | 100   |       |      |
| 42        | 18.9  | 13.2  | 19.8 |
| 71        | 33.3  | 25.6  | 38.4 |

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#21

Naphthalene-d8

Concen: 20.00 ng

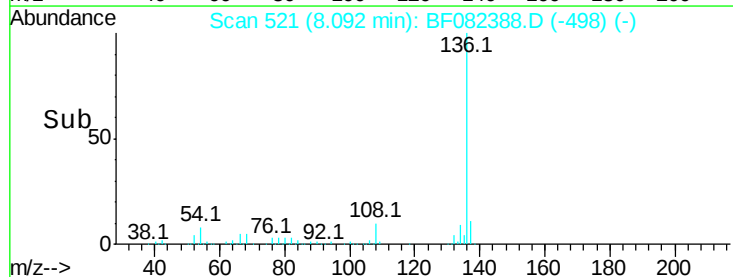
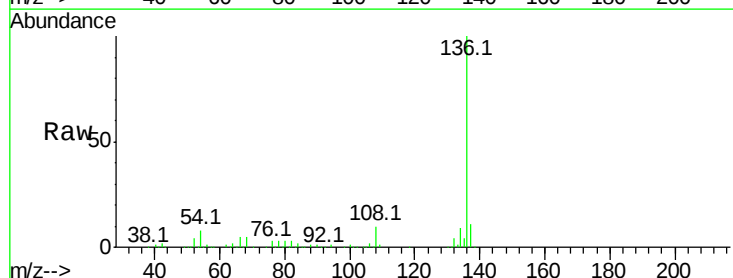
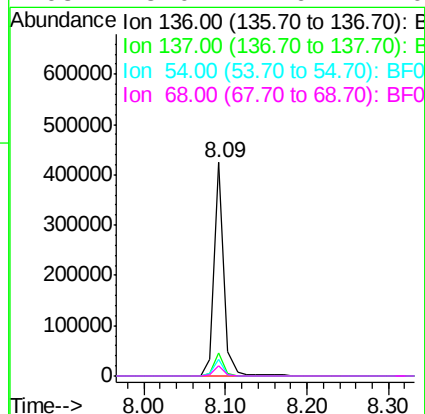
RT: 8.09 min Scan# 521

Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 363932 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.9  | 9.0   | 13.6   |
| 54        | 7.9   | 7.5   | 11.3   |
| 68        | 5.0   | 4.6   | 7.0    |





#23

Nitrobenzene-d5

Concen: 0.81 ng

RT: 7.37 min Scan# 458

Delta R.T. -0.05 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

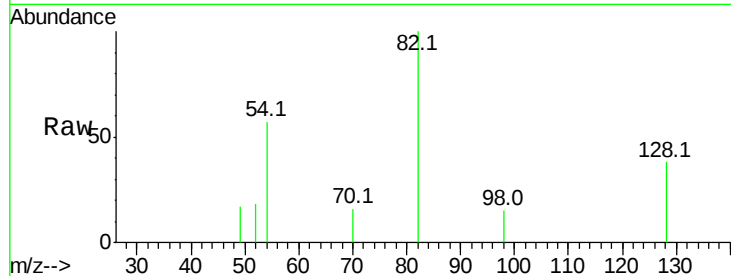
ClientSampleId :

GOODLUCK58DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 37.8  | 38.7  | 58.1# |
| 54      | 57.5  | 40.1  | 60.1  |

Manual Integrations  
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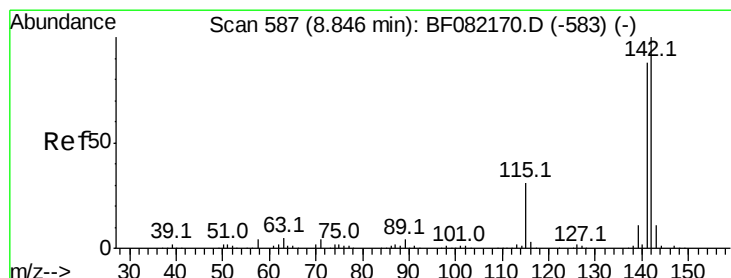
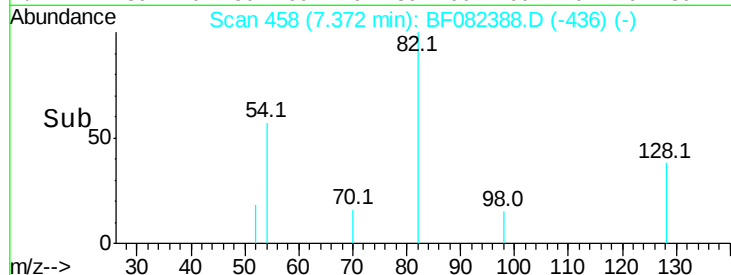
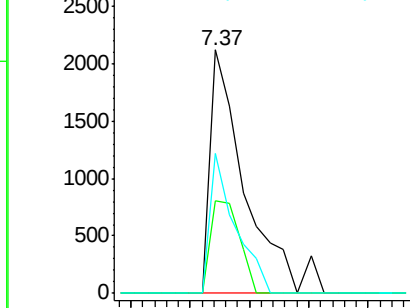
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Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#37

2-Methylnaphthalene

Concen: 4.38 ng

RT: 8.81 min Scan# 584

Delta R.T. -0.03 min

Lab File: BF082388.D

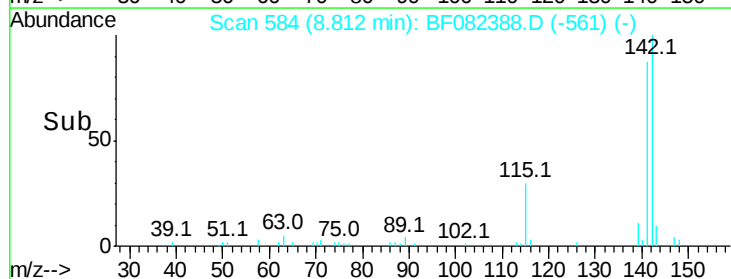
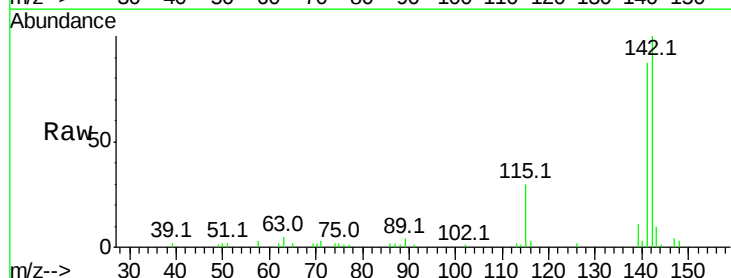
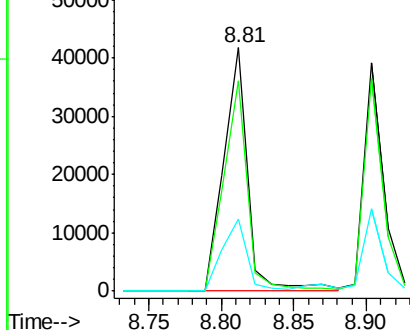
Acq: 20 Oct 2015 7:53

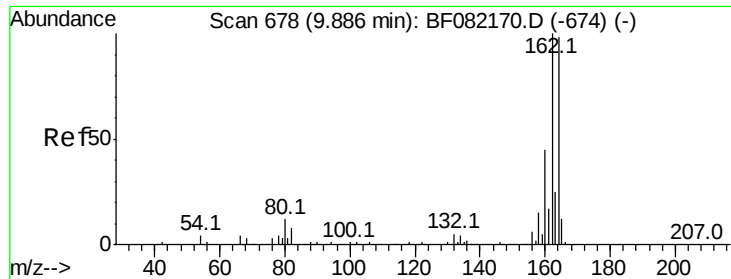
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 86.6  | 70.4  | 105.6 |
| 115     | 29.8  | 24.6  | 37.0  |

Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.85 min Scan# 675

Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

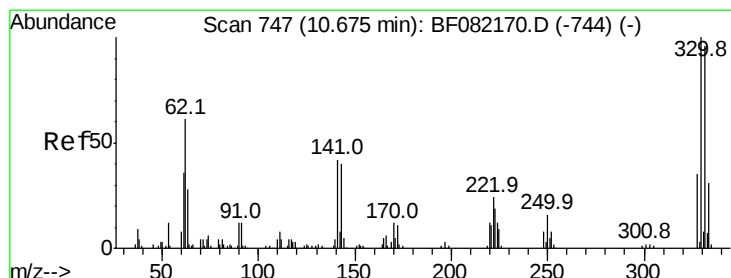
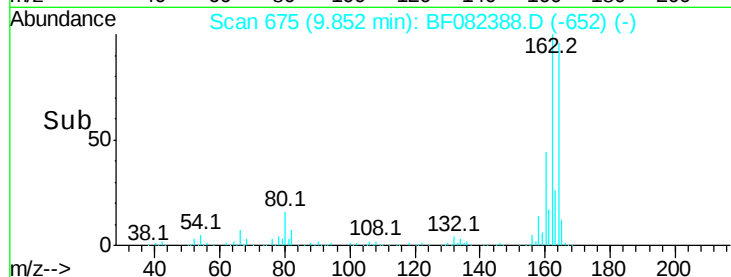
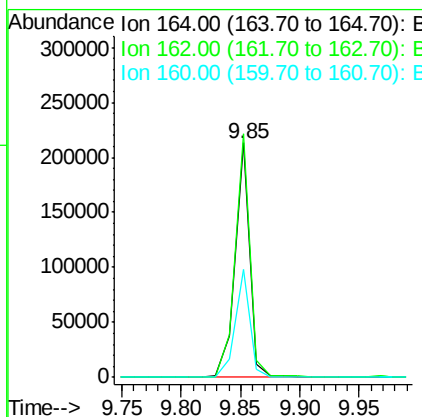
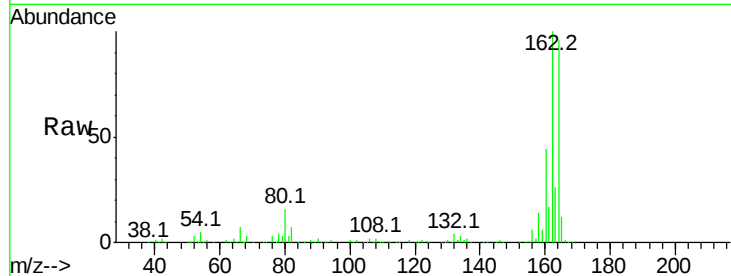
ClientSampleId :

GOODLUCK58DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 164   | Resp: | 183232 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 103.9 | 81.6  | 122.4  |
| 160       | 45.9  | 36.4  | 54.6   |

Manual Integrations  
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#41

2,4,6-Tribromophenol

Concen: 1.18 ng

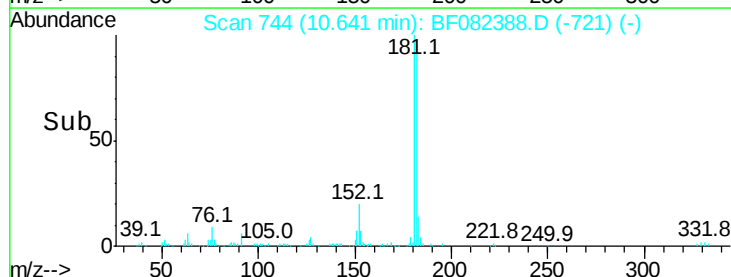
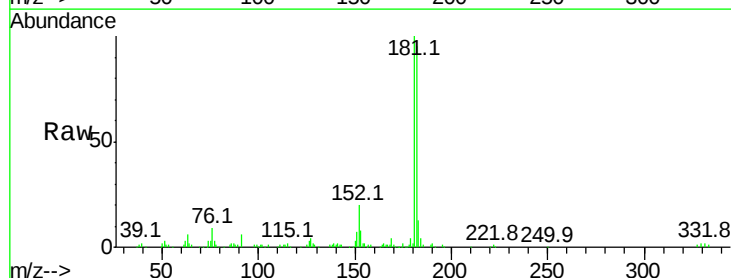
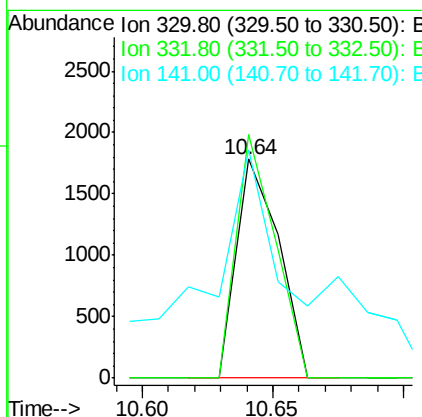
RT: 10.64 min Scan# 744

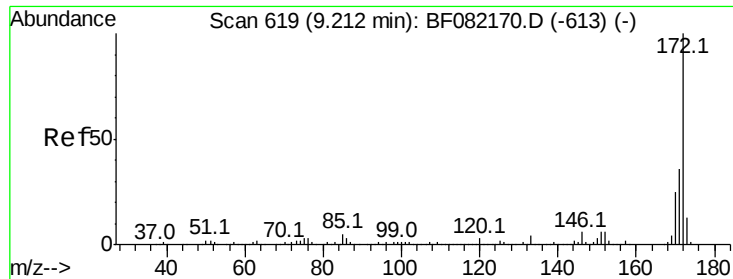
Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 2029  |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 102.5 | 77.1  | 115.7 |
| 141       | 251.1 | 29.8  | 44.8# |





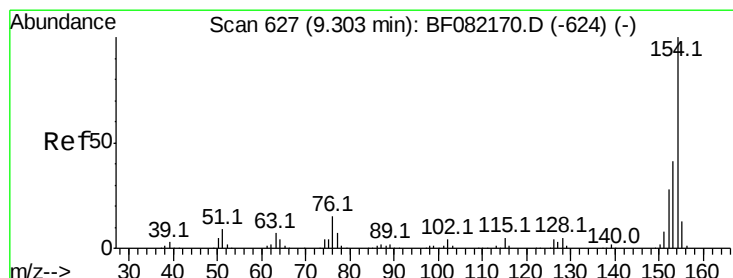
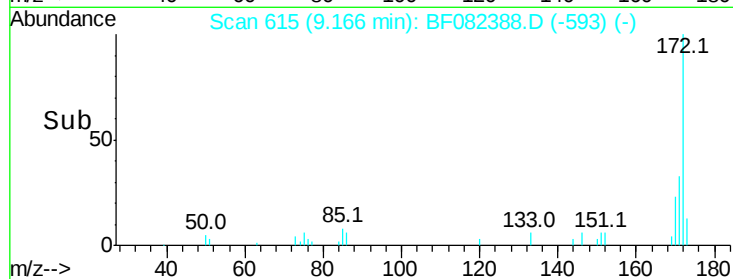
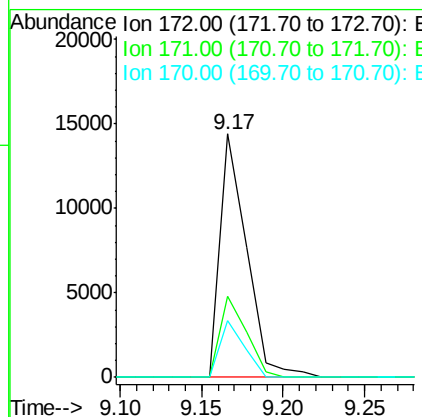
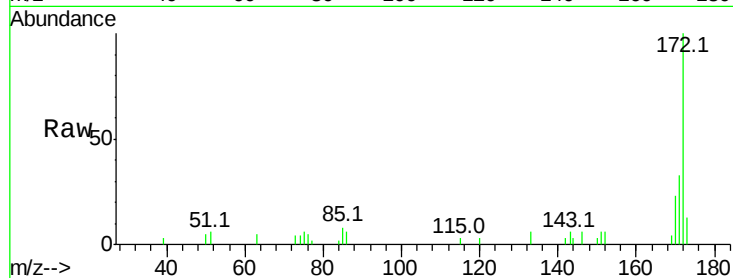
#44  
 2-Fluorobiphenyl  
 Concen: 1.47 ng  
 RT: 9.17 min Scan# 615  
 Delta R.T. -0.04 min  
 Lab File: BF082388.D  
 Acq: 20 Oct 2015 7:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GOODLUCK58DL

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 172     | 100   | 16272 |       |       |
| 171     | 33.5  |       | 28.6  | 42.8  |
| 170     | 23.0  |       | 19.7  | 29.5  |

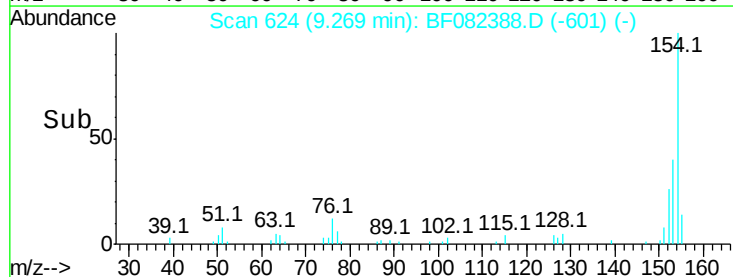
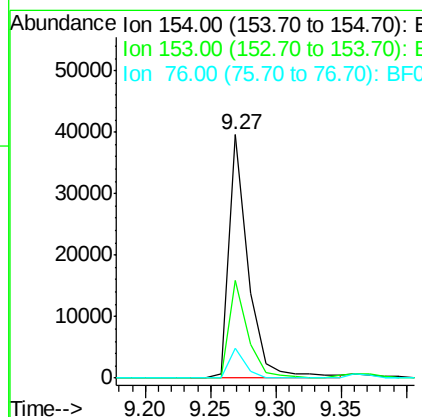
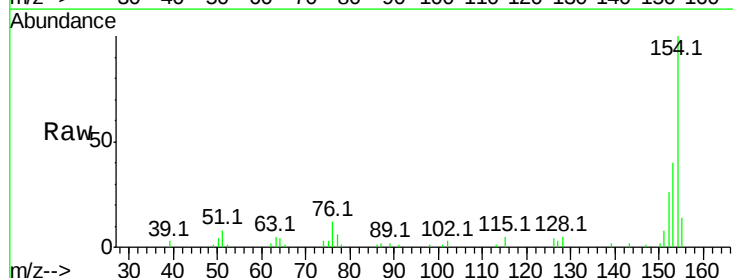
Manual Integrations  
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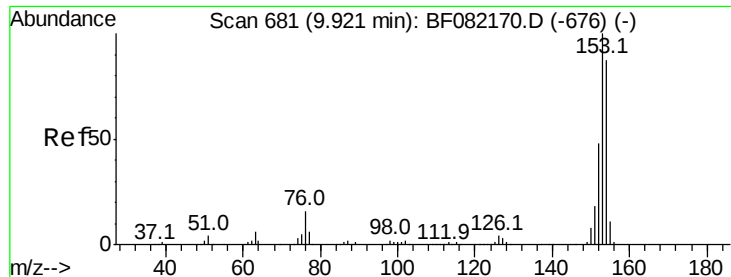
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 10/20/2015 6:29:22 PM



#45  
 1,1'-Biphenyl  
 Concen: 2.94 ng  
 RT: 9.27 min Scan# 624  
 Delta R.T. -0.03 min  
 Lab File: BF082388.D  
 Acq: 20 Oct 2015 7:53

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 41010 |       |       |
| 153     | 40.3  |       | 20.6  | 60.6  |
| 76      | 12.3  |       | 0.0   | 35.2  |





#51

Acenaphthene

Concen: 19.51 ng

RT: 9.89 min Scan# 678

Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

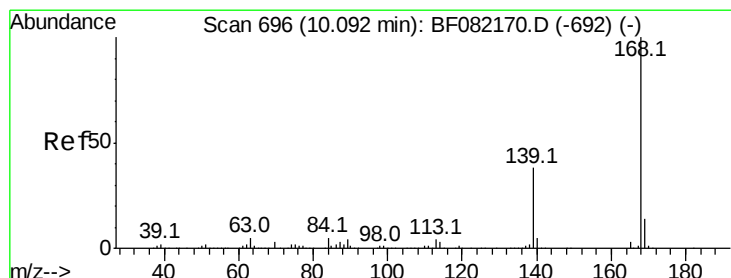
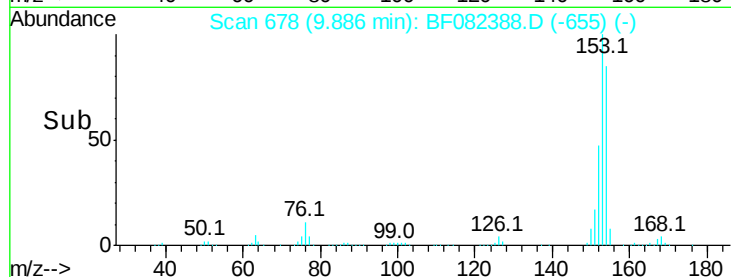
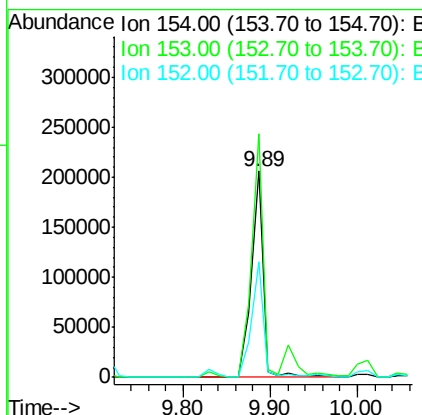
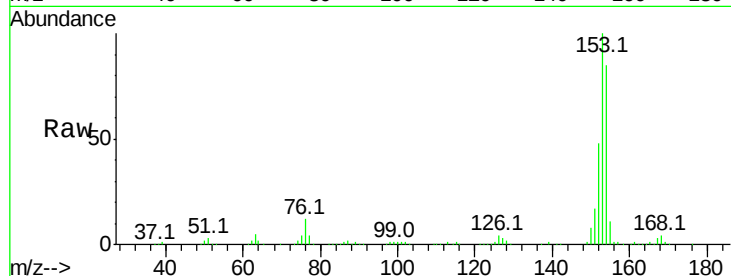
ClientSampleId :

GOODLUCK58DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 200738 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 118.0 | 91.4  | 137.2  |
| 152       | 56.0  | 44.3  | 66.5   |

Manual Integrations  
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#54

Dibenzofuran

Concen: 31.12 ng

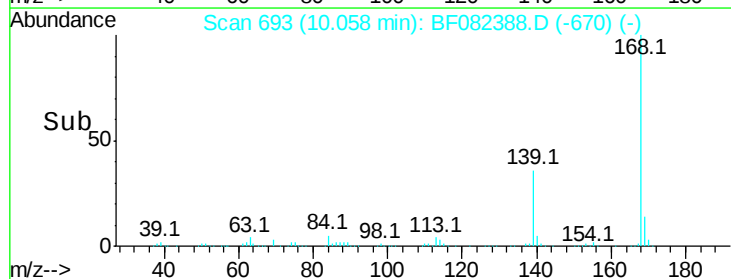
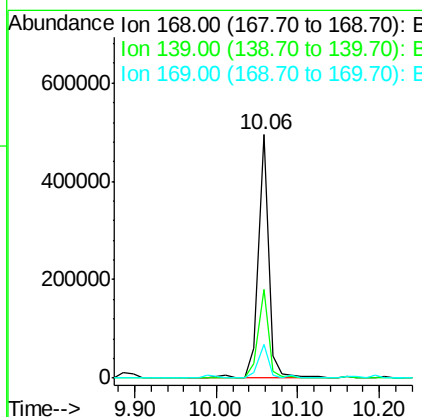
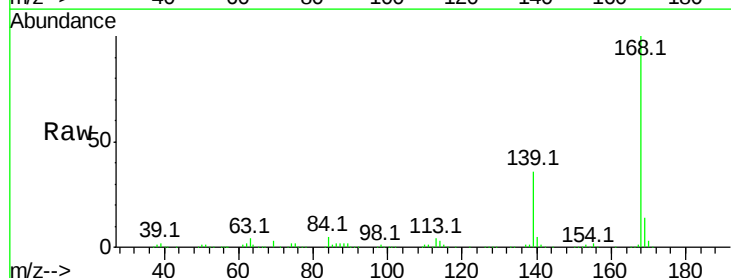
RT: 10.06 min Scan# 693

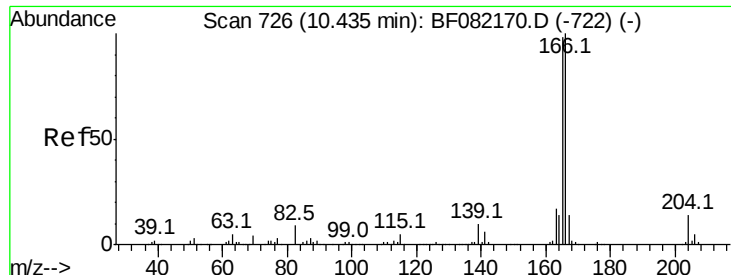
Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 168   | Resp: | 439449 |
| Ion Ratio | Lower | Upper |        |
| 168       | 100   |       |        |
| 139       | 36.4  | 31.0  | 46.6   |
| 169       | 13.8  | 10.9  | 16.3   |





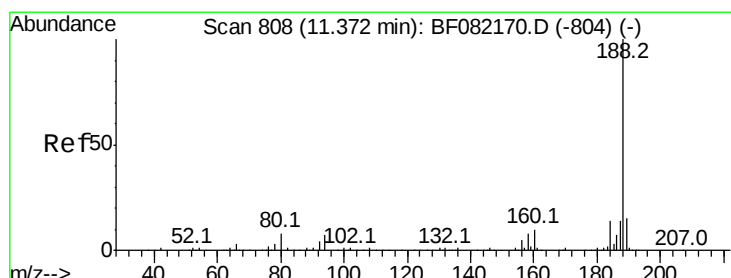
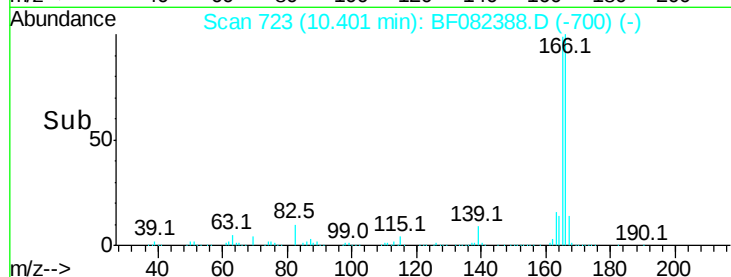
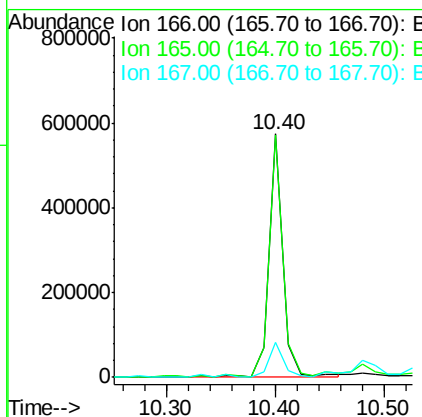
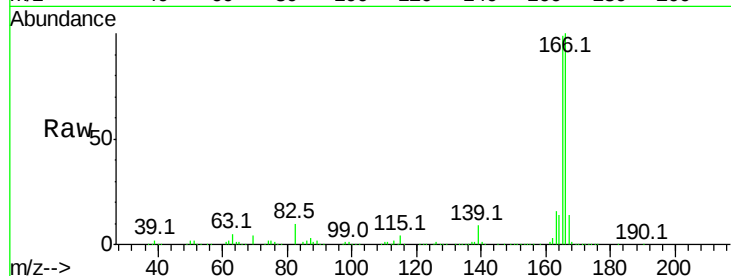
#57  
Fluorene  
Concen: 44.64 ng  
RT: 10.40 min Scan# 723  
Delta R.T. -0.03 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

Instrument :  
BNA\_F  
ClientSampleId :  
GOODLUCK58DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 517841 |       |       |
| 165     | 99.5  | 78.3   | 117.5 |       |
| 167     | 14.1  | 10.8   | 16.2  |       |

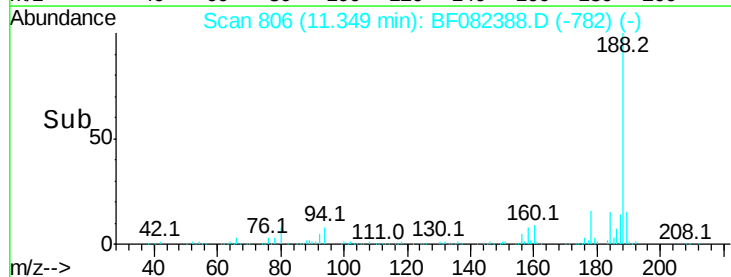
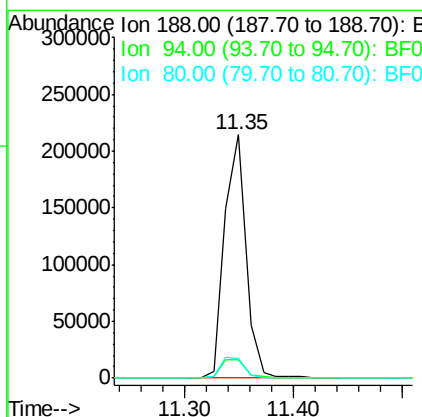
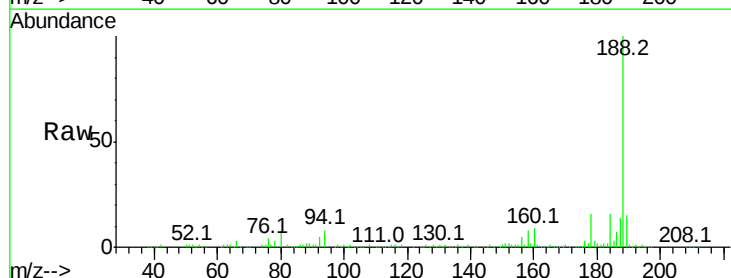
Manual Integrations  
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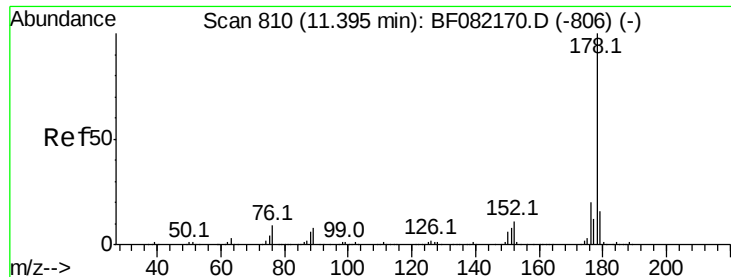
MMdadoda  
10/20/2015 6:29:22 PM



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.35 min Scan# 806  
Delta R.T. -0.02 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 293126 |       |       |
| 94      | 7.6   | 5.8    | 8.6   |       |
| 80      | 8.1   | 6.4    | 9.6   |       |





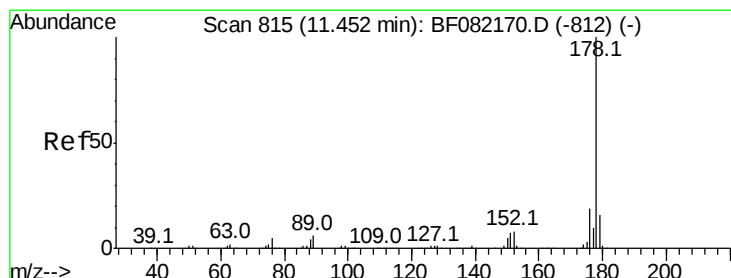
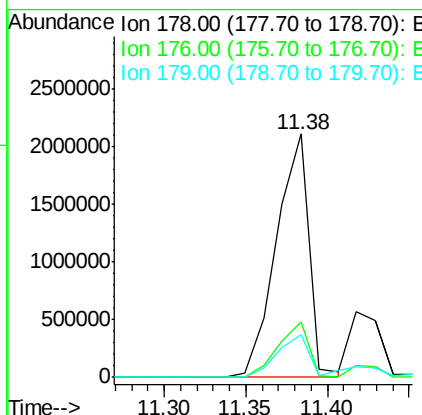
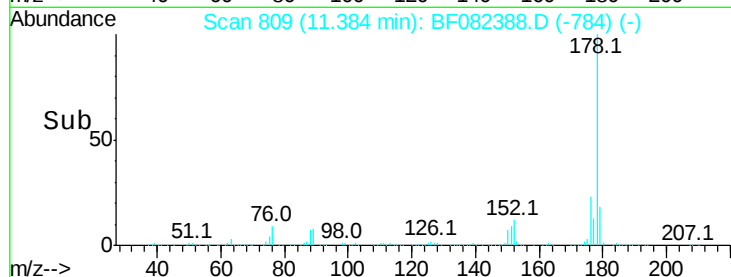
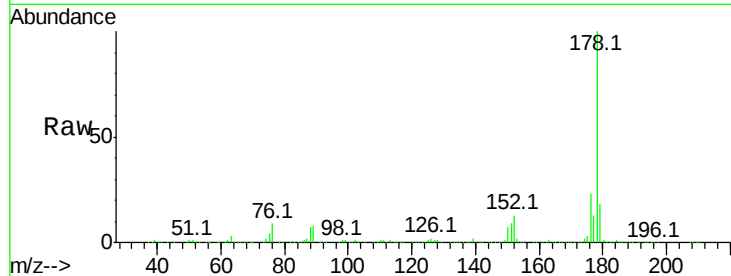
#70  
Phenanthrene  
Concen: 204.08 ng  
RT: 11.38 min Scan# 809  
Delta R.T. -0.01 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

Instrument :  
BNA\_F  
ClientSampleId :  
GOODLUCK58DL

Tot Ion:178 Resp: 2932176  
Ion Ratio Lower Upper  
178 100  
176 22.7 16.0 24.0  
179 17.7 12.6 19.0

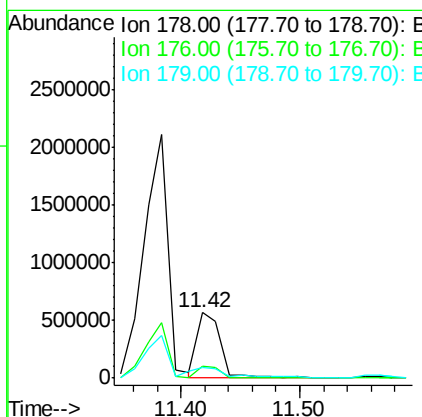
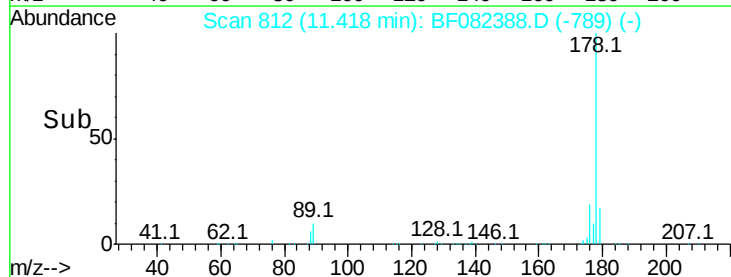
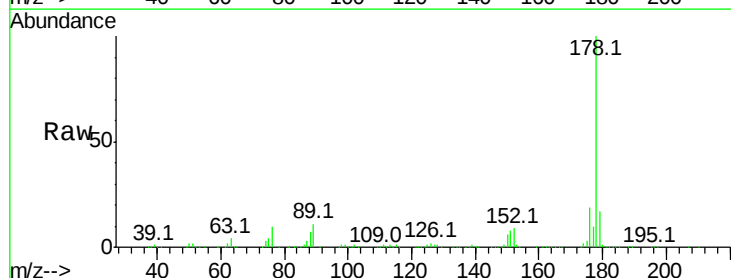
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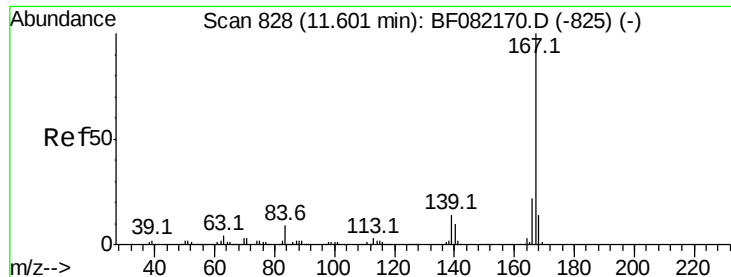
MMdadoda  
10/20/2015 6:29:22 PM



#71  
Anthracene  
Concen: 53.01 ng  
RT: 11.42 min Scan# 812  
Delta R.T. -0.03 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

Tgt Ion:178 Resp: 784913  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.4 23.0  
179 17.2 12.5 18.7





#72

Carbazole

Concen: 31.40 ng

RT: 11.58 min Scan# 826

Delta R.T. -0.02 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

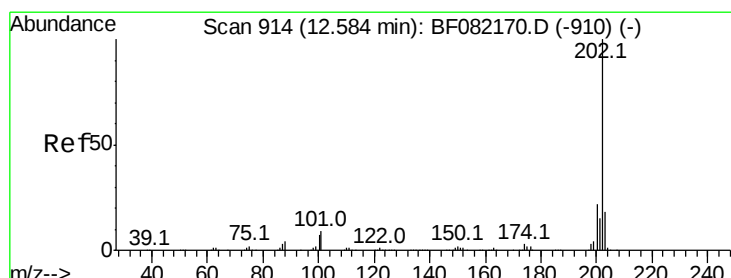
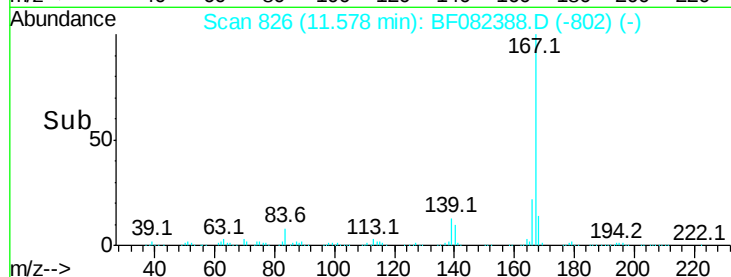
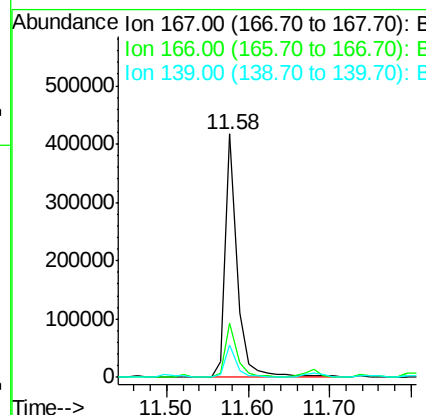
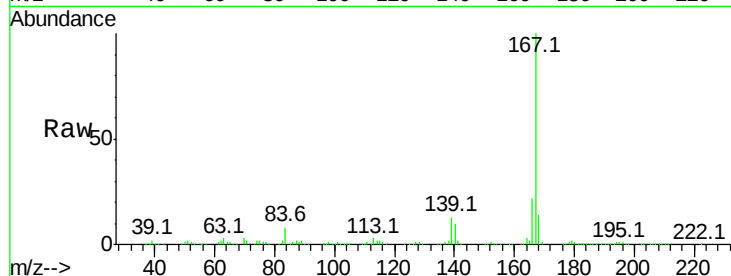
ClientSampleId :

GOODLUCK58DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.1  | 17.3  | 25.9  |
| 139     | 13.2  | 11.2  | 16.8  |

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#74

Fluoranthene

Concen: 140.59 ng

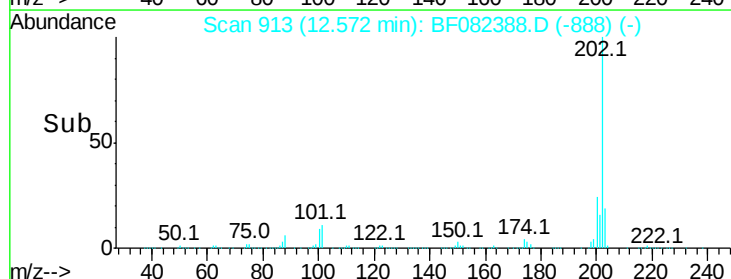
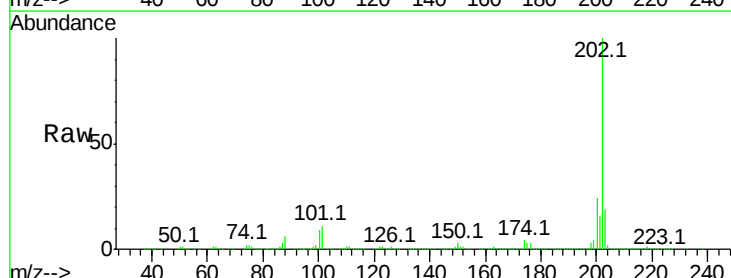
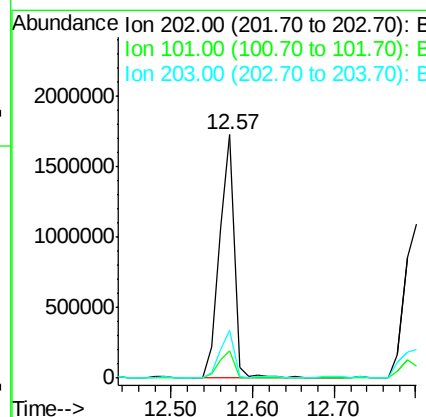
RT: 12.57 min Scan# 913

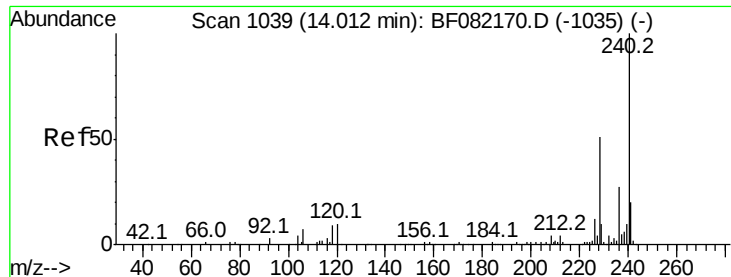
Delta R.T. -0.01 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.1  | 0.0   | 29.3  |
| 203     | 19.4  | 0.0   | 37.8  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.01 min Scan# 1039

Delta R.T. 0.00 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

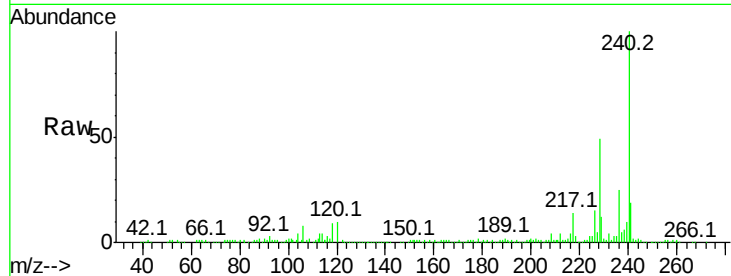
ClientSampleId :

GOODLUCK58DL

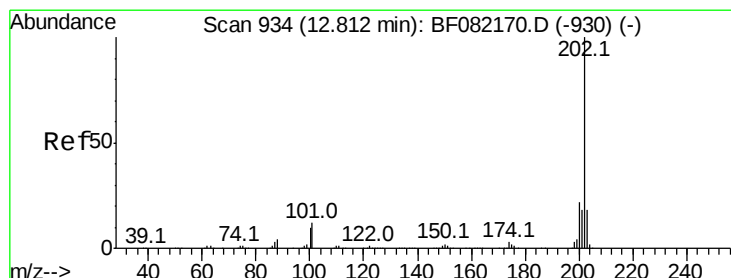
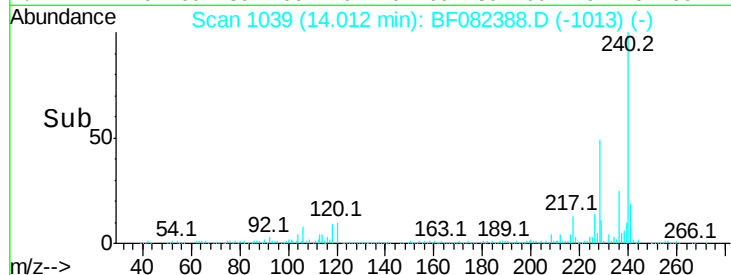
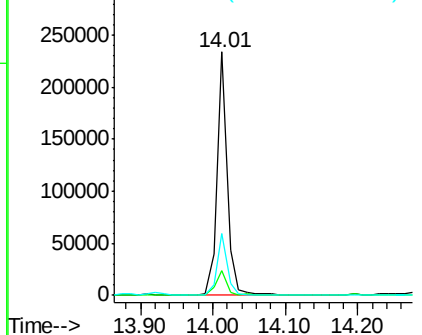
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 226533 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.1  | 8.1   | 12.1   |
| 236       | 25.3  | 21.3  | 31.9   |

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Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 110.63 ng

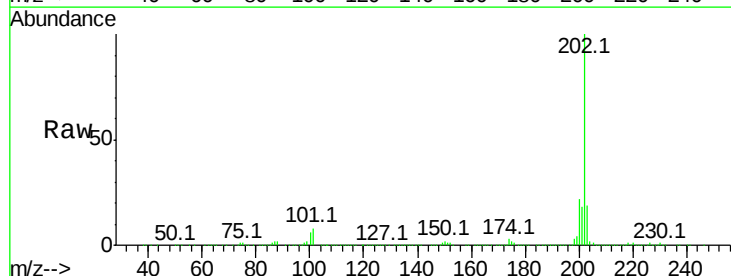
RT: 12.80 min Scan# 933

Delta R.T. -0.01 min

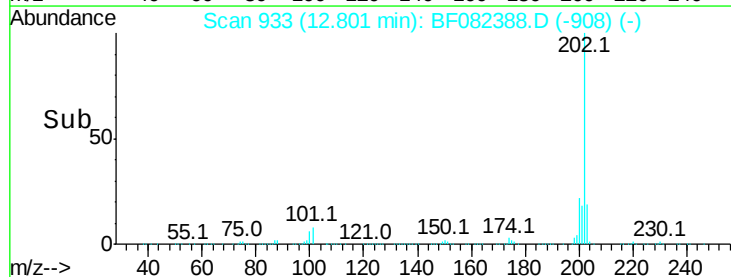
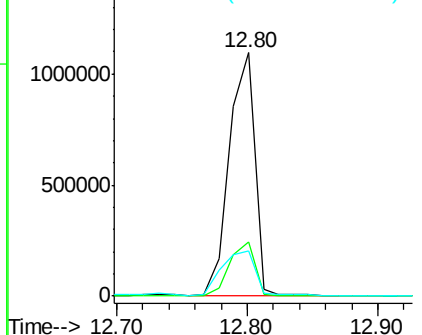
Lab File: BF082388.D

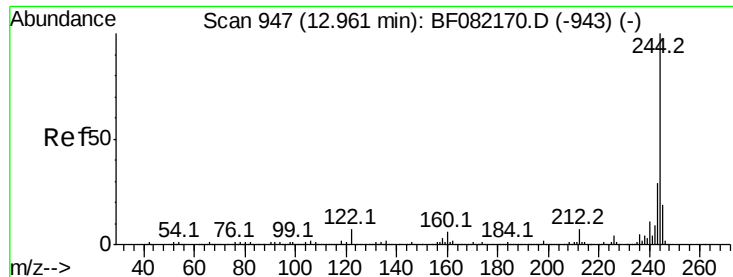
Acq: 20 Oct 2015 7:53

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1487296 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 200       | 22.1  | 17.9  | 26.9    |
| 203       | 18.7  | 14.5  | 21.7    |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 1.78 ng

RT: 12.93 min Scan# 944

Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

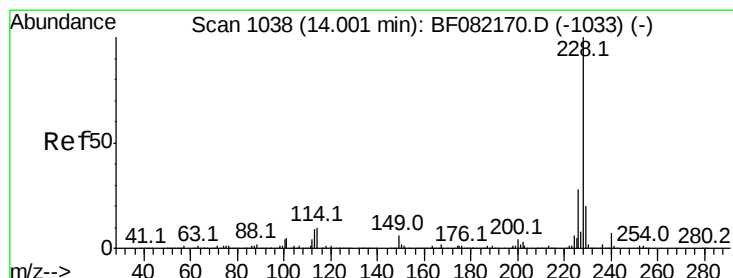
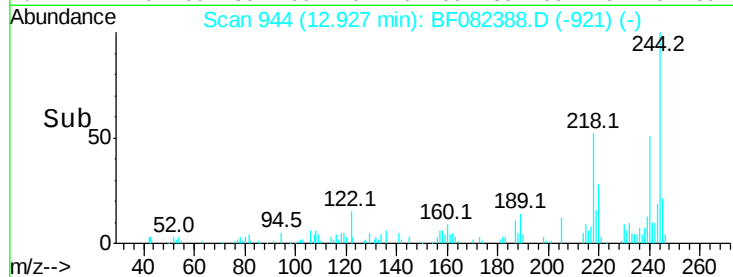
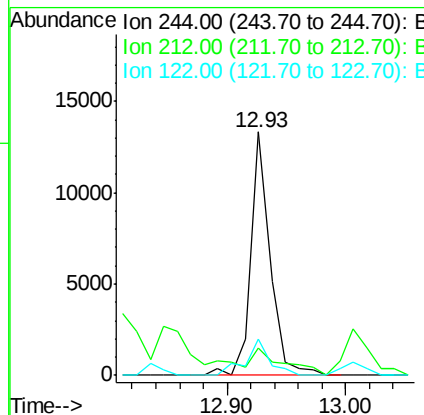
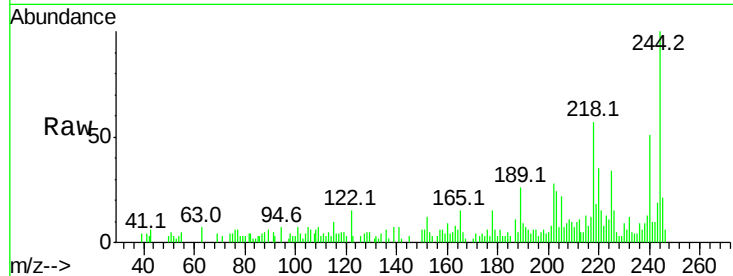
ClientSampleId :

GOODLUCK58DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 244   | Resp: | 15205 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 11.4  | 5.8   | 8.6#  |
| 122       | 14.8  | 5.9   | 8.9#  |

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#80

Benzo(a)anthracene

Concen: 33.88 ng

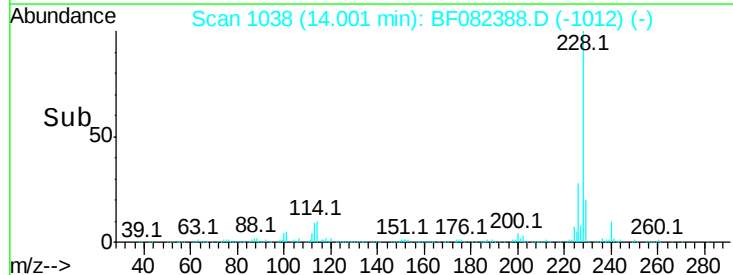
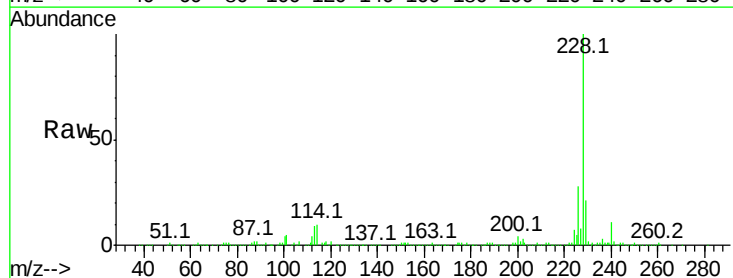
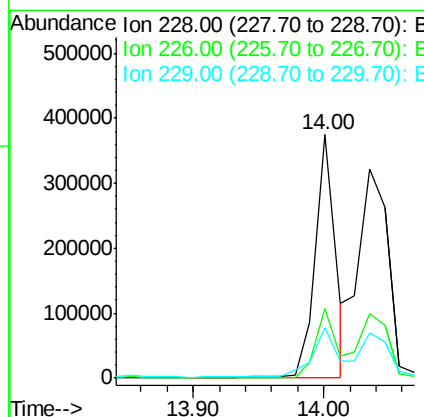
RT: 14.00 min Scan# 1038

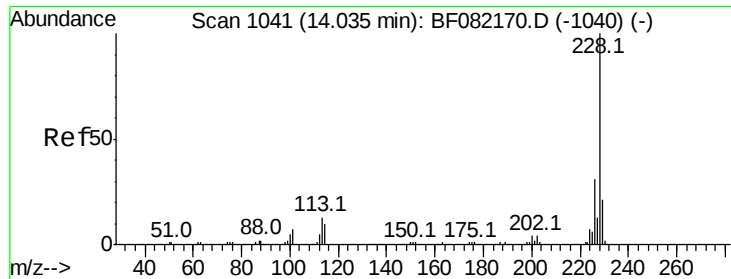
Delta R.T. 0.00 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 399358 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 28.4  | 22.3  | 33.5   |
| 229       | 20.7  | 16.2  | 24.2   |





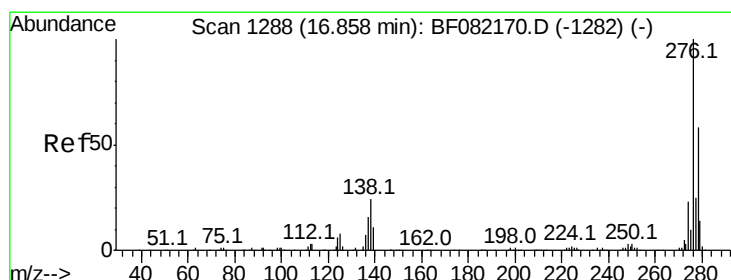
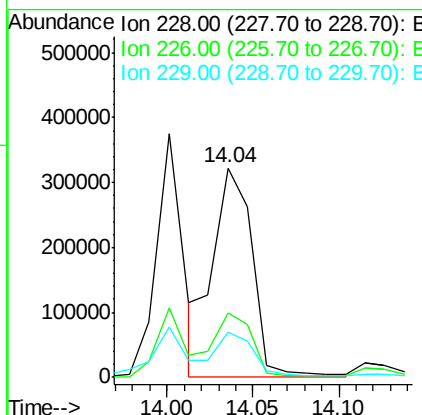
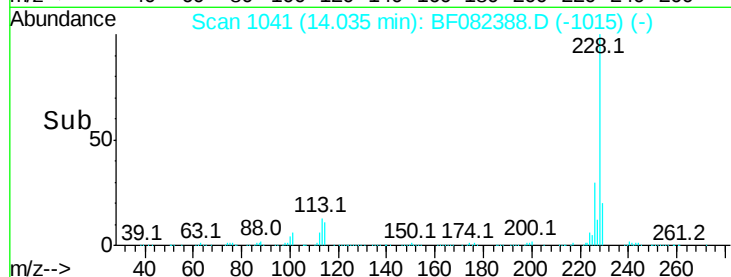
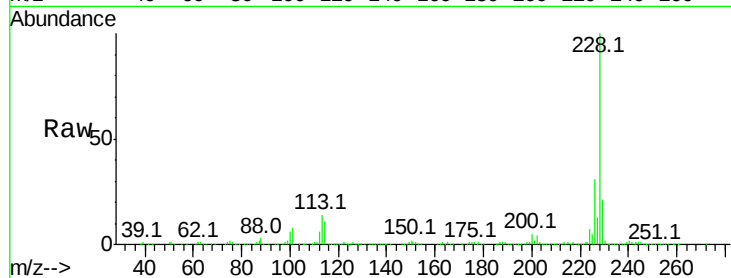
#82  
Chrysene  
Concen: 41.66 ng m  
RT: 14.04 min Scan# 1041  
Delta R.T. 0.00 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

Instrument :  
BNA\_F  
ClientSampleId :  
GOODLUCK58DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 517372 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.8  | 24.4  | 36.6   |
| 229       | 21.3  | 16.3  | 24.5   |

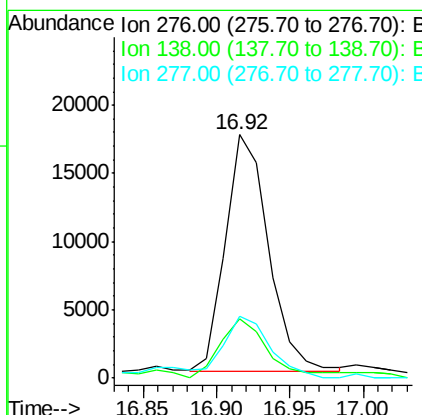
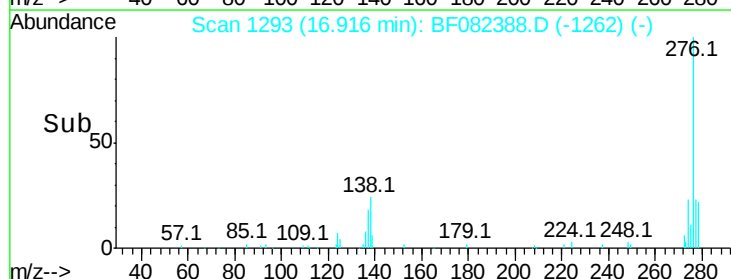
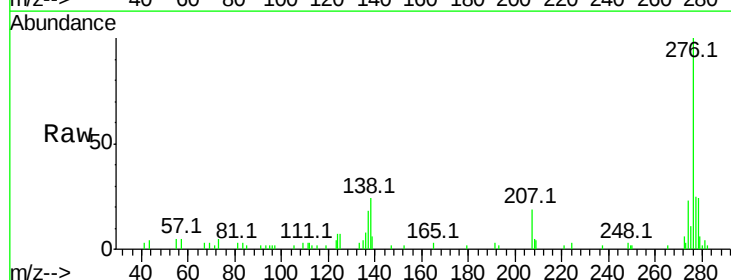
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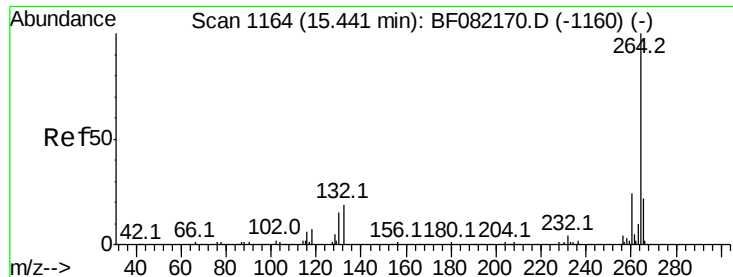
MMdadoda  
10/20/2015 6:29:22 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.64 ng m  
RT: 16.92 min Scan# 1293  
Delta R.T. 0.06 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 35944 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 7.3   | 19.7  | 29.5# |
| 277       | 7.9   | 20.1  | 30.1# |





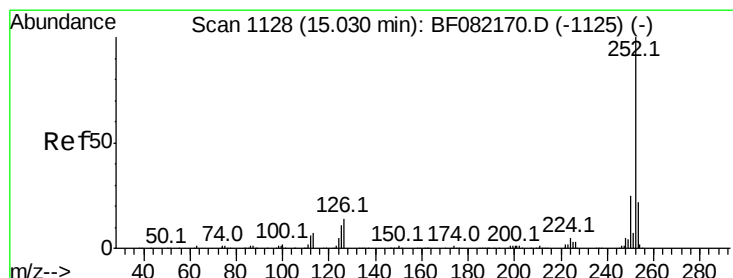
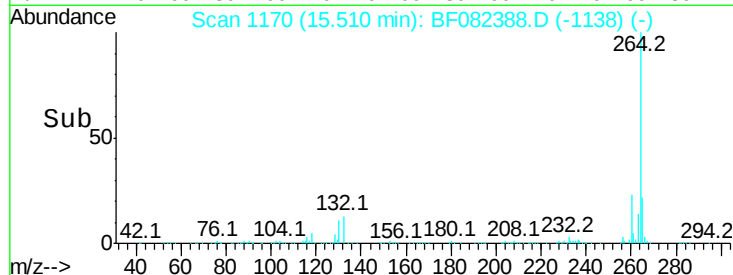
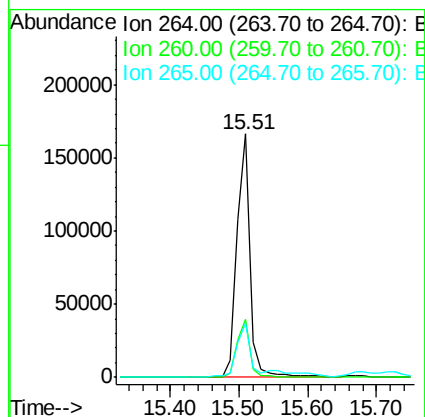
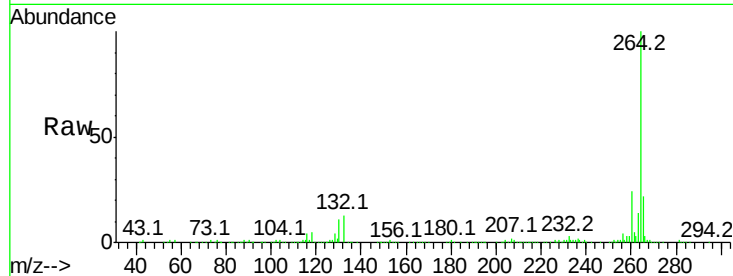
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.51 min Scan# 1170  
Delta R.T. 0.07 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

Instrument :  
BNA\_F  
ClientSampleId :  
GOODLUCK58DL

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 264     | 100   |      |       |       |
| 260     | 23.7  | 19.0 | 28.6  |       |
| 265     | 22.1  | 17.3 | 25.9  |       |

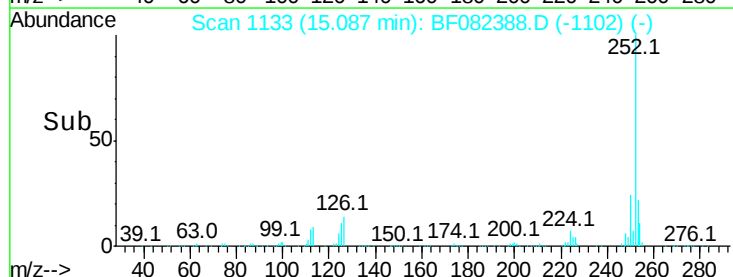
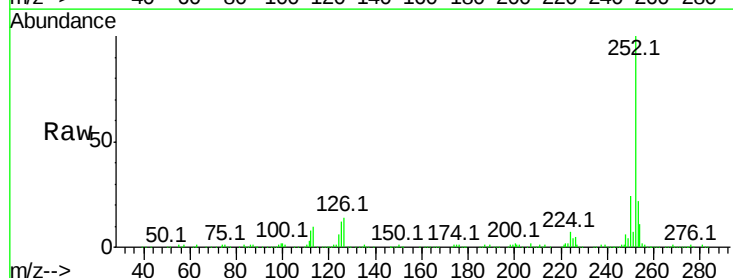
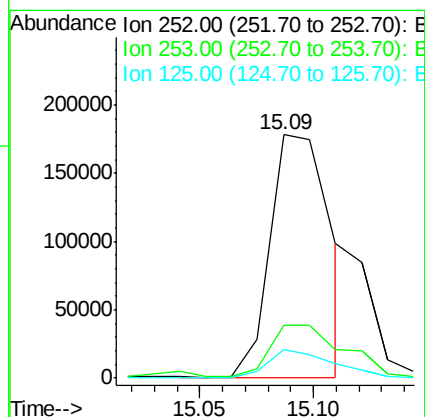
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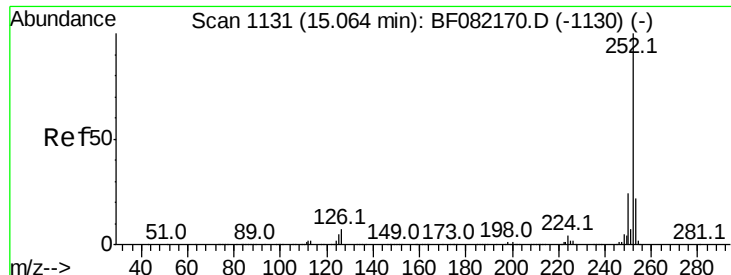
MMdadoda  
10/20/2015 6:29:22 PM



#87  
Benzo(b)fluoranthene  
Concen: 24.15 ng m  
RT: 15.09 min Scan# 1133  
Delta R.T. 0.06 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 252     | 100   |      |       |       |
| 253     | 21.8  | 18.0 | 27.0  |       |
| 125     | 11.6  | 8.6  | 12.8  |       |





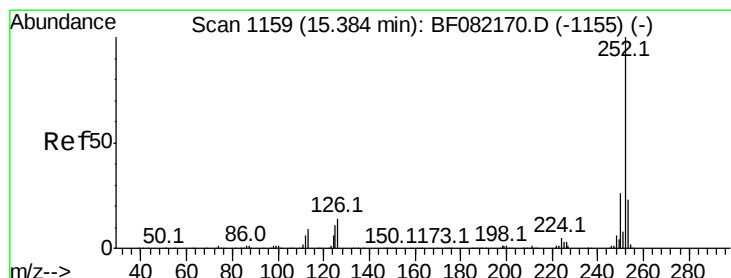
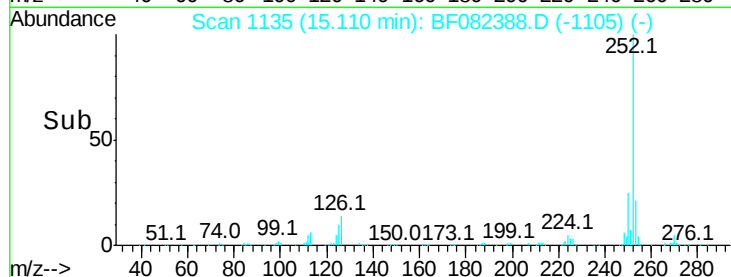
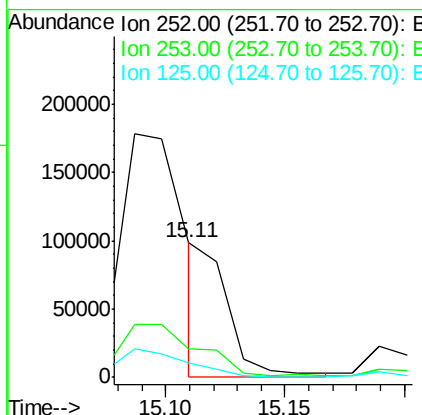
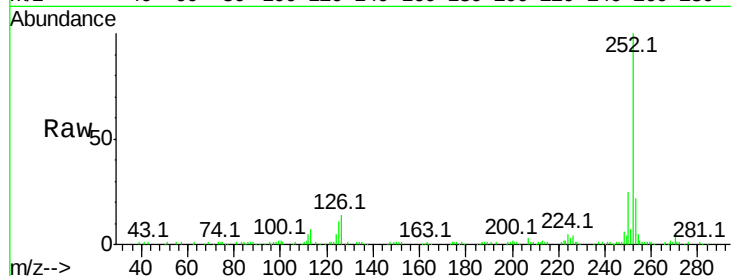
#88  
Benzo(k)fluoranthene  
Concen: 6.48 ng m  
RT: 15.11 min Scan# 1135  
Delta R.T. 0.05 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

Instrument :  
BNA\_F  
ClientSampleId :  
GOODLUCK58DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.7  | 17.8  | 26.6  |
| 125     | 10.8  | 6.7   | 10.1  |

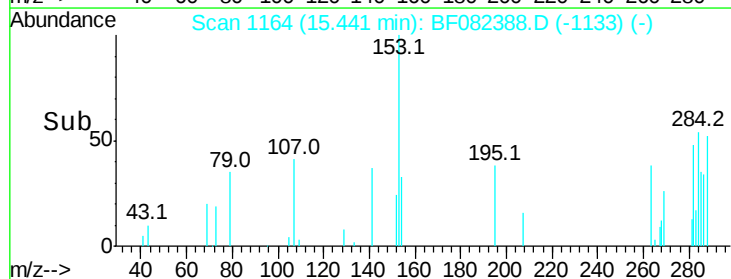
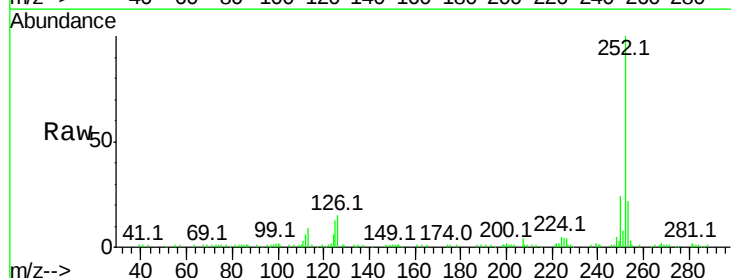
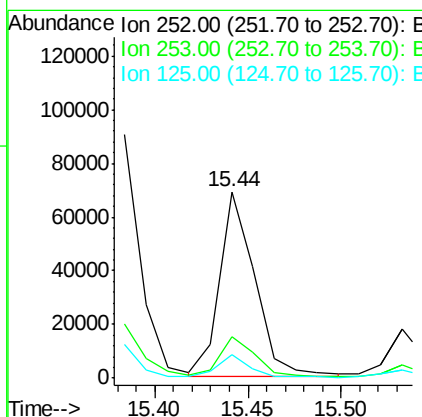
Manual Integrations  
APPROVED

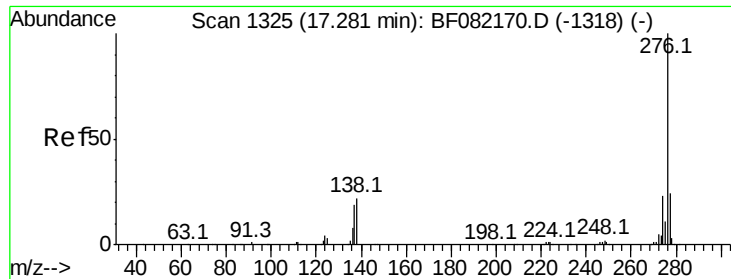
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#89  
Benzo(a)pyrene  
Concen: 7.74 ng  
RT: 15.44 min Scan# 1164  
Delta R.T. 0.06 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 18.2  | 27.2  |
| 125     | 12.7  | 8.9   | 13.3  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 2.89 ng  
 RT: 17.35 min Scan# 1331  
 Delta R.T. 0.07 min  
 Lab File: BF082388.D  
 Acq: 20 Oct 2015 7:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GOODLUCK58DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 27086 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 26.2  | 18.8  | 28.2  |
| 138       | 23.8  | 17.4  | 26.2  |

Manual Integrations  
 APPROVED

MMdadoda  
 10/20/2015 6:29:22 PM

