

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120715\  
 Data File : BF083580.D  
 Acq On : 8 Dec 2015 4:13  
 Operator : UM/IZ  
 Sample : G4594-04DL 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G9BK2DL

Manual Integrations  
 APPROVED

Mmdadoda  
 12/8/2015 6:15:50 PM

Quant Time: Dec 08 11:50:34 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Dec 05 04:12:46 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 5.72  | 152  | 153163   | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8          | 7.62  | 136  | 561320   | 20.00 | ng    | -0.06    |
| 38) Acenaphthene-d10        | 10.41 | 164  | 253313   | 20.00 | ng    | -0.06    |
| 63) Phenanthrene-d10        | 12.81 | 188  | 405823   | 20.00 | ng    | -0.05    |
| 75) Chrysene-d12            | 17.01 | 240  | 369376   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12            | 18.66 | 264  | 283586   | 20.00 | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 4.01  | 112  | 195598   | 19.37 | ng    | -0.02    |
| 7) Phenol-d6                | 5.30  | 99   | 272955   | 19.62 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 6.56  | 82   | 169856   | 14.14 | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 11.71 | 330  | 38592    | 16.52 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl        | 9.37  | 172  | 239290   | 12.81 | ng    | -0.06    |
| 78) Terphenyl-d14           | 15.44 | 244  | 171939   | 10.36 | ng    | -0.05    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 48) Acenaphthylene          | 10.19 | 152  | 254216   | 9.15  | ng    | 96       |
| 49) Dimethylphthalate       | 10.05 | 163  | 57415    | 2.88  | ng    | 99       |
| 70) Phenanthrene            | 12.85 | 178  | 195072   | 8.26  | ng    | 98       |
| 71) Anthracene              | 12.93 | 178  | 129152   | 5.36  | ng    | 98       |
| 74) Fluoranthene            | 14.77 | 202  | 542110   | 23.16 | ng    | 98       |
| 77) Pyrene                  | 15.14 | 202  | 744175   | 26.93 | ng    | 99       |
| 80) Benzo(a)anthracene      | 17.00 | 228  | 431105m  | 19.95 | ng    |          |
| 82) Chrysene                | 17.05 | 228  | 430131   | 19.98 | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 19.92 | 276  | 171080   | 9.27  | ng    | # 100    |
| 87) Benzo(b)fluoranthene    | 18.28 | 252  | 399580m  | 25.09 | ng    |          |
| 88) Benzo(k)fluoranthene    | 18.31 | 252  | 136070m  | 8.34  | ng    |          |
| 89) Benzo(a)pyrene          | 18.60 | 252  | 282069   | 18.21 | ng    | 97       |
| 90) Dibenzo(a,h)anthracene  | 19.92 | 278  | 42363m   | 2.84  | ng    |          |
| 91) Benzo(a,h,i)perylene    | 20.27 | 276  | 170740   | 11.37 | ng    | 99       |

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

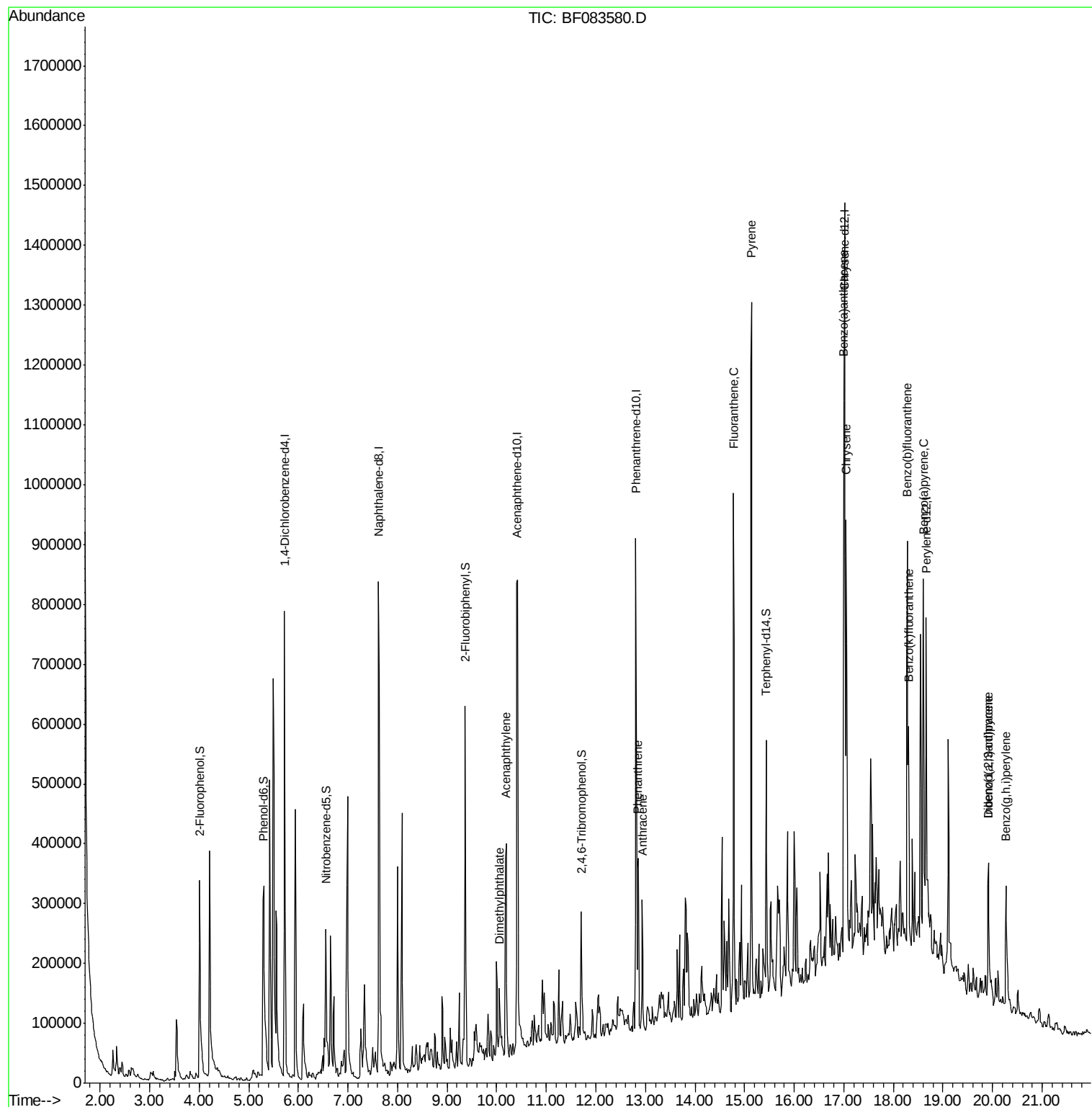
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120715\  
Data File : BF083580.D  
Acq On : 8 Dec 2015 4:13  
Operator : UM/IZ  
Sample : G4594-04DL 5X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

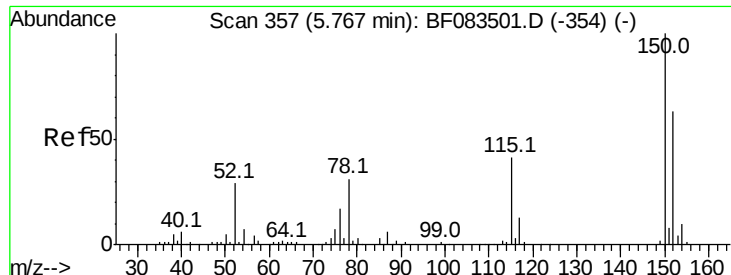
Instrument :  
BNA\_F  
ClientSampleId :  
G9BK2DL

Manual Integrations  
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12/8/2015 6:15:50 PM

Quant Time: Dec 08 11:50:34 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Dec 05 04:12:46 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.72 min Scan# 353

Delta R.T. -0.05 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

Instrument :

BNA\_F

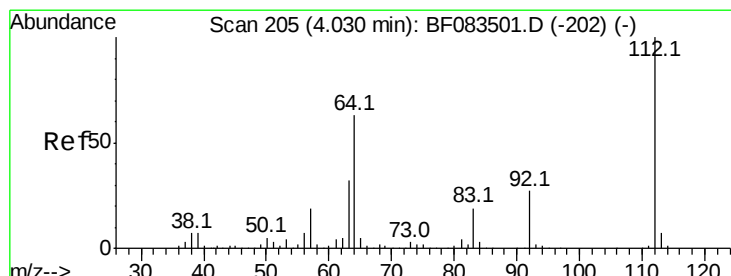
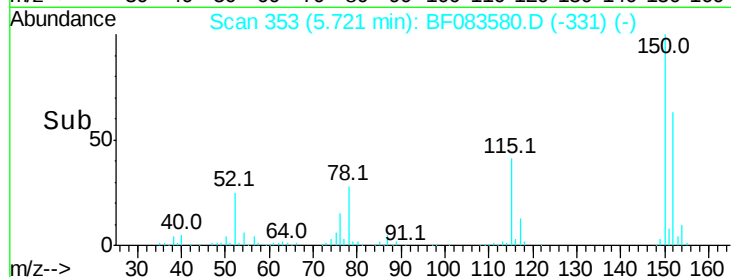
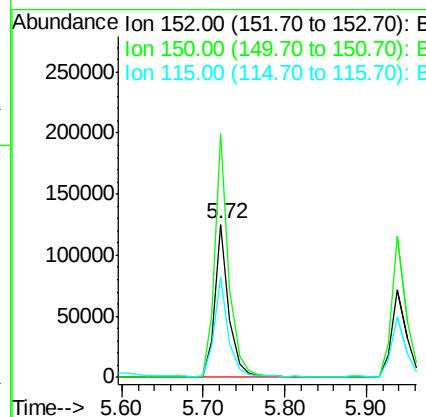
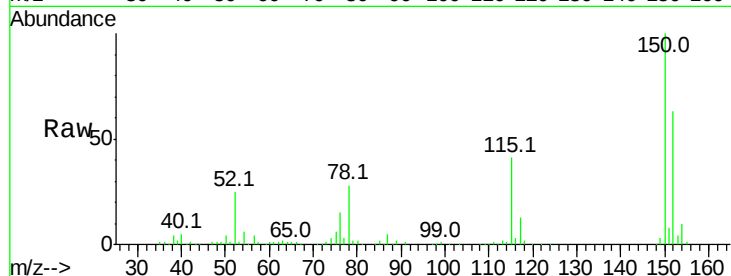
ClientSampleId :

G9BK2DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 153163 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 158.8 | 126.5 | 189.7  |
| 115       | 65.2  | 52.3  | 78.5   |

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#5

2-Fluorophenol

Concen: 19.37 ng

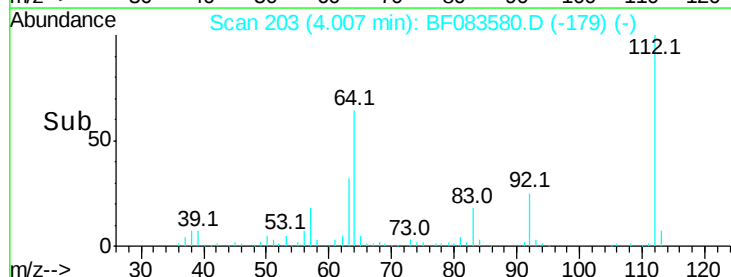
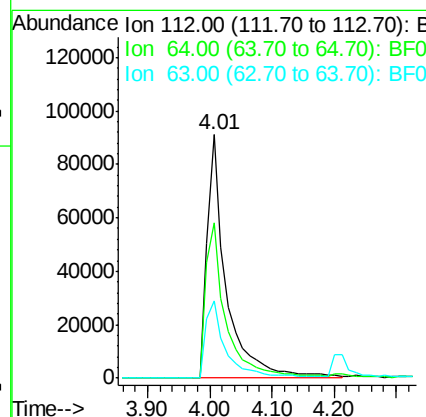
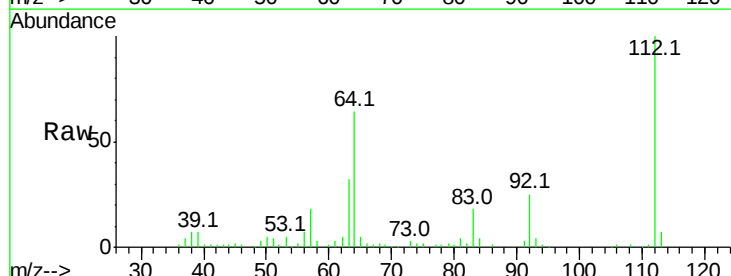
RT: 4.01 min Scan# 203

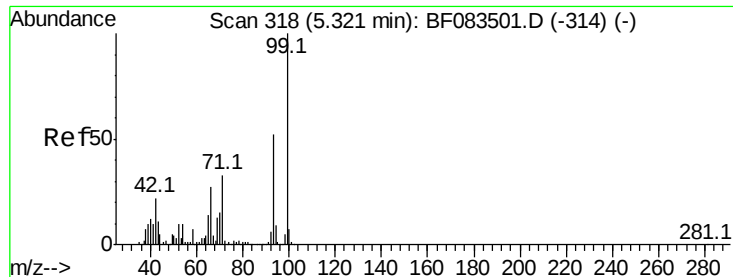
Delta R.T. -0.02 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 195598 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 64.0  | 50.5  | 75.7   |
| 63        | 31.6  | 25.8  | 38.6   |





#7

Phenol-d6

Concen: 19.62 ng

RT: 5.30 min Scan# 316

Delta R.T. -0.02 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

Instrument :

BNA\_F

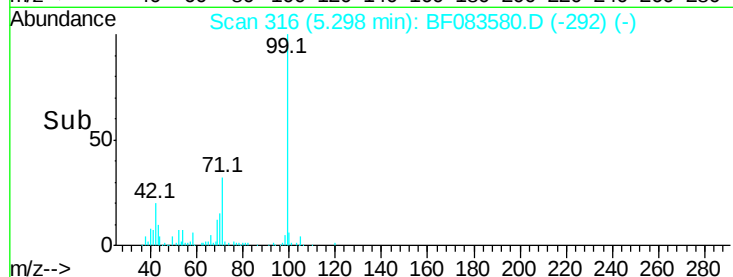
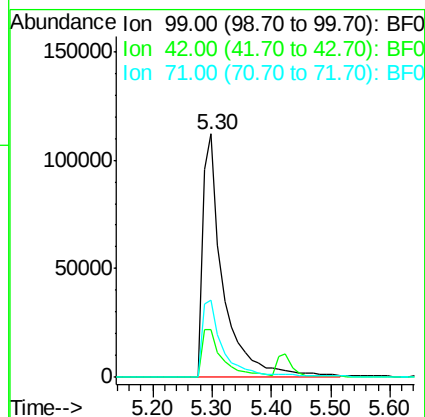
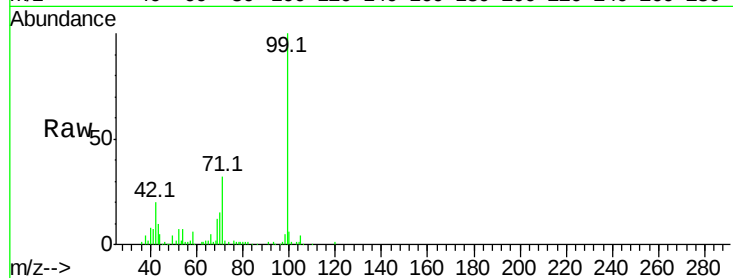
ClientSampleId :

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| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 272955 |       |       |
| 42      | 19.7 | 17.3  | 25.9   |       |       |
| 71      | 31.6 | 26.6  | 40.0   |       |       |



#21

Naphthalene-d8

Concen: 20.00 ng

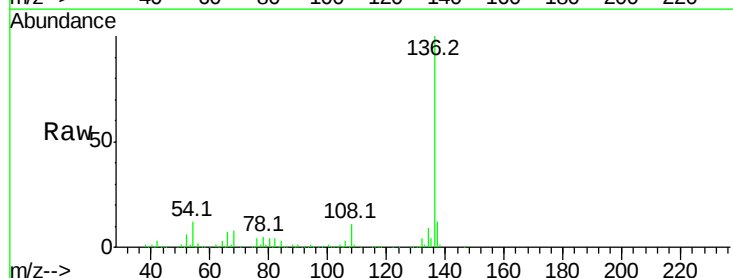
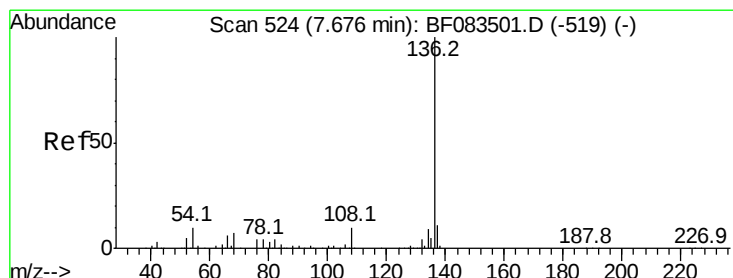
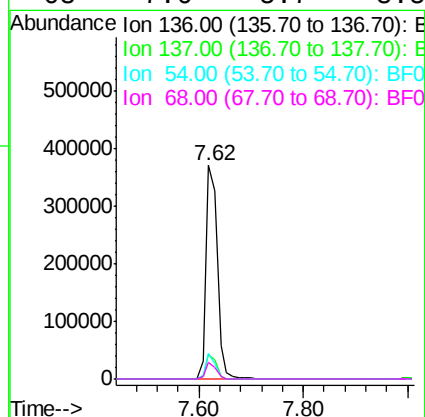
RT: 7.62 min Scan# 519

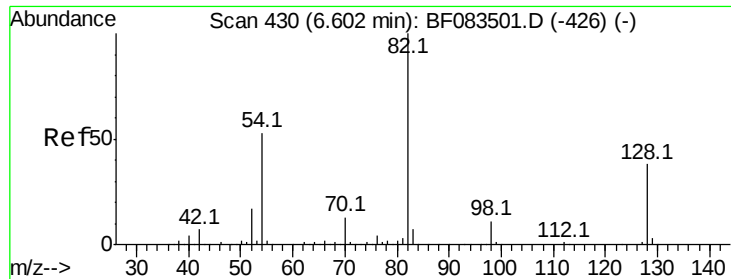
Delta R.T. -0.06 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 561320 |       |       |
| 137     | 11.5 | 8.7   | 13.1   |       |       |
| 54      | 12.2 | 7.8   | 11.6#  |       |       |
| 68      | 7.6  | 5.7   | 8.5    |       |       |





#23

Nitrobenzene-d5

Concen: 14.14 ng

RT: 6.56 min Scan# 426

Delta R.T. -0.05 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

Instrument :

BNA\_F

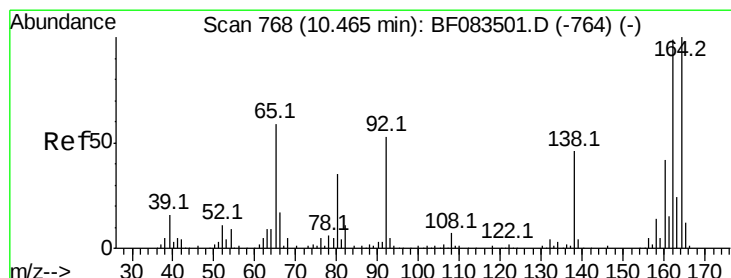
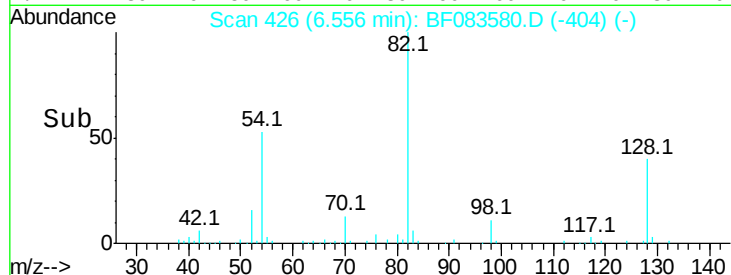
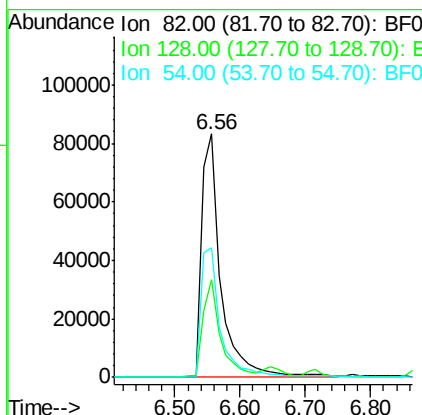
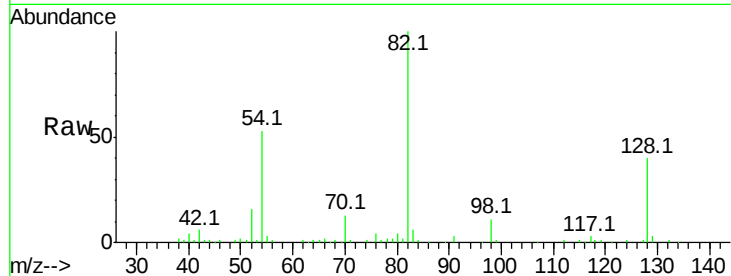
ClientSampleId :

G9BK2DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 169856 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 40.0  | 30.7  | 46.1   |
| 54        | 53.1  | 42.5  | 63.7   |

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#38

Acenaphthene-d10

Concen: 20.00 ng

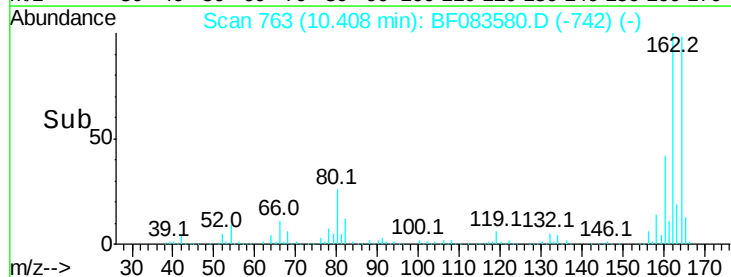
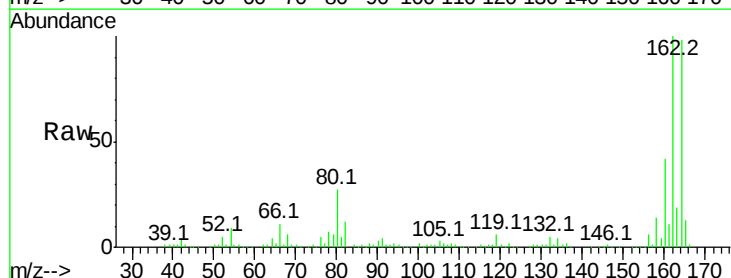
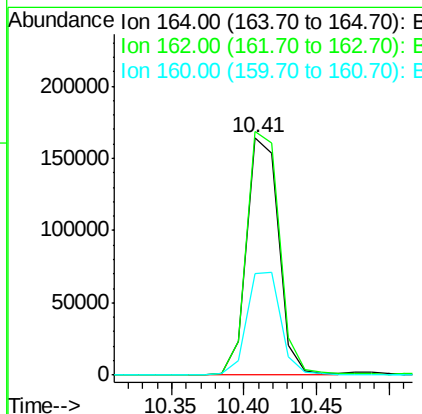
RT: 10.41 min Scan# 763

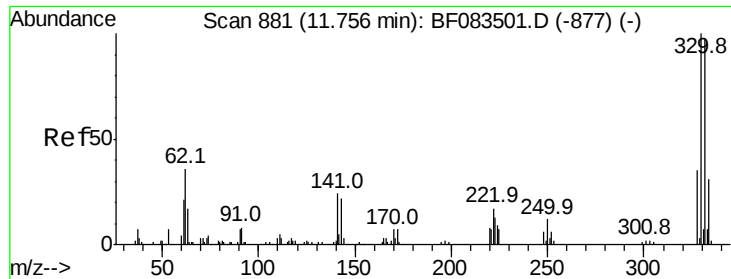
Delta R.T. -0.06 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 253313 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 102.4 | 78.8  | 118.2  |
| 160       | 43.0  | 33.4  | 50.2   |





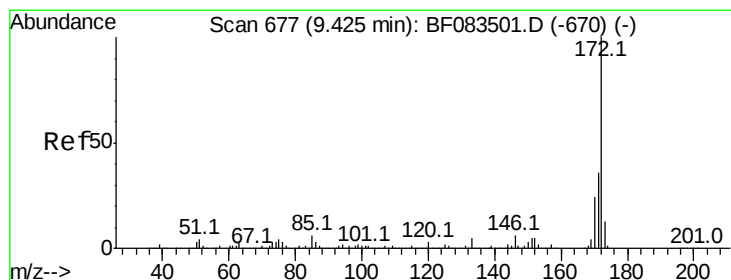
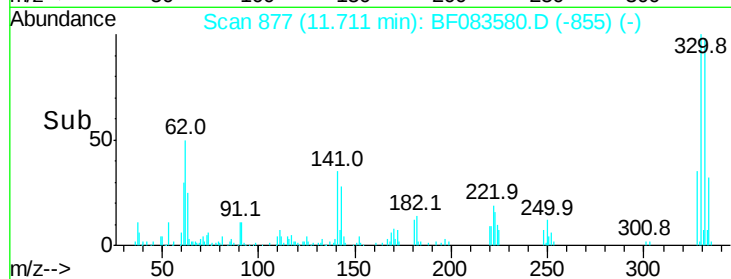
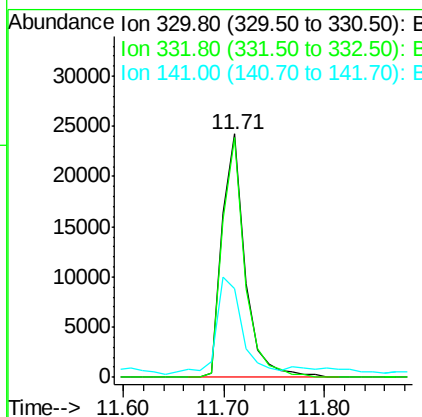
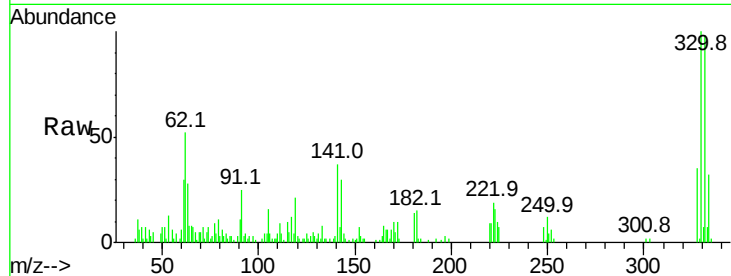
#41  
 2,4,6-Tribromophenol  
 Concen: 16.52 ng  
 RT: 11.71 min Scan# 877  
 Delta R.T. -0.05 min  
 Lab File: BF083580.D  
 Acq: 8 Dec 2015 4:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G9BK2DL

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 330     | 100   |            |            |
| 332     | 96.5  | 0.0        | 0.0#       |
| 141     | 44.8  | 0.0        | 0.0#       |

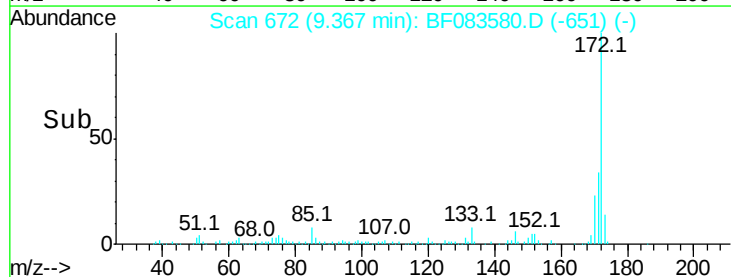
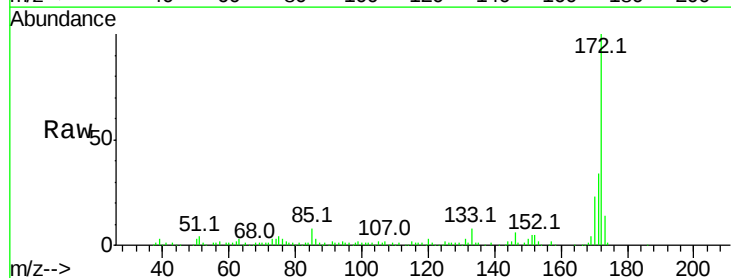
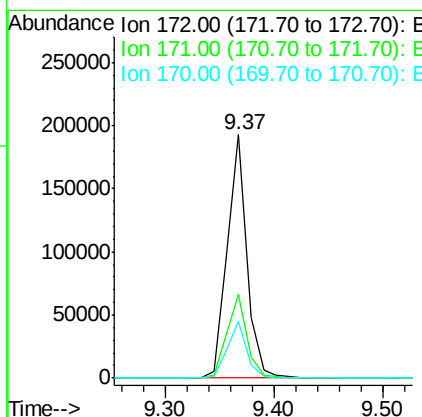
Manual Integrations  
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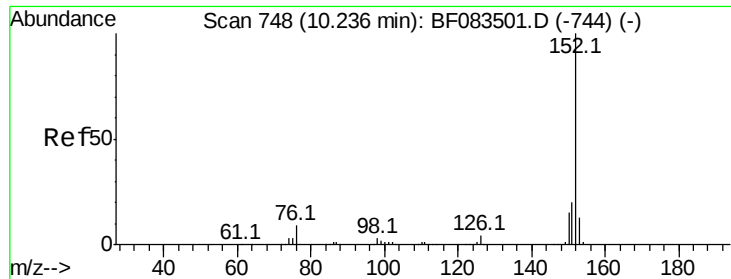
Mmdadoda  
 12/8/2015 6:15:50 PM



#44  
 2-Fluorobiphenyl  
 Concen: 12.81 ng  
 RT: 9.37 min Scan# 672  
 Delta R.T. -0.06 min  
 Lab File: BF083580.D  
 Acq: 8 Dec 2015 4:13

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 172     | 100   |            |            |
| 171     | 34.3  | 28.6       | 42.8       |
| 170     | 23.3  | 19.4       | 29.0       |





#48

Acenaphthylene

Concen: 9.15 ng

RT: 10.19 min Scan# 744

Delta R.T. -0.05 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

Instrument :

BNA\_F

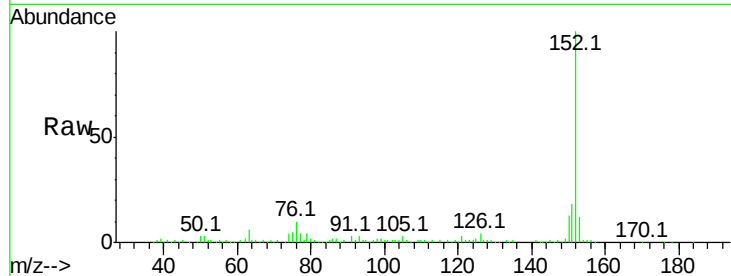
ClientSampleId :

G9BK2DL

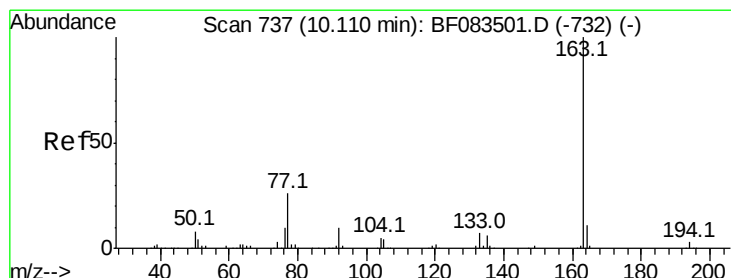
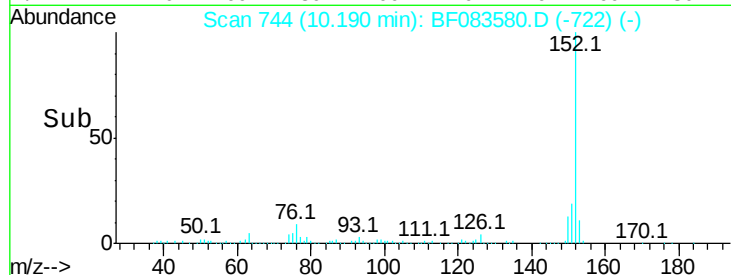
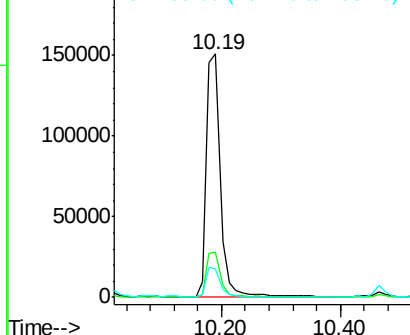
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 254216 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 18.5  | 16.3  | 24.5   |
| 153       | 11.9  | 10.8  | 16.2   |

Manual Integrations  
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12/8/2015 6:15:50 PM



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 2.88 ng

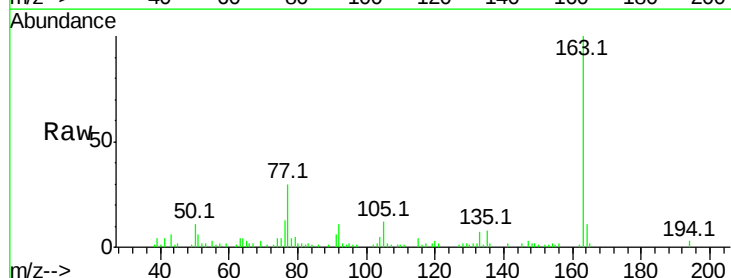
RT: 10.05 min Scan# 732

Delta R.T. -0.06 min

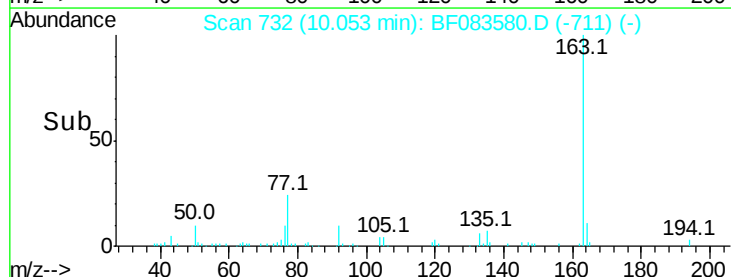
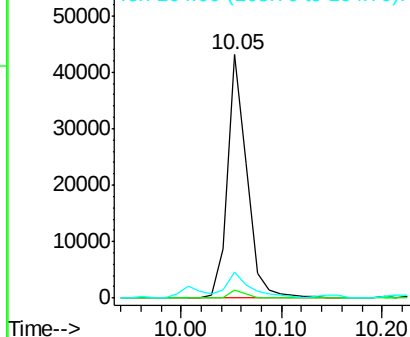
Lab File: BF083580.D

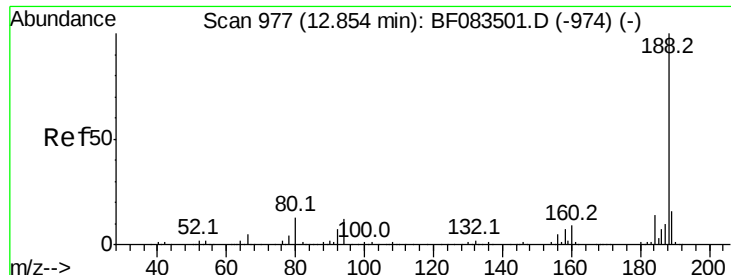
Acq: 8 Dec 2015 4:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 57415 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.2   | 2.8   | 4.2   |
| 164       | 10.6  | 8.6   | 13.0  |



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E





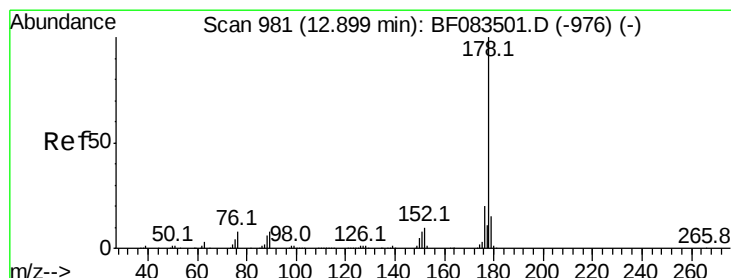
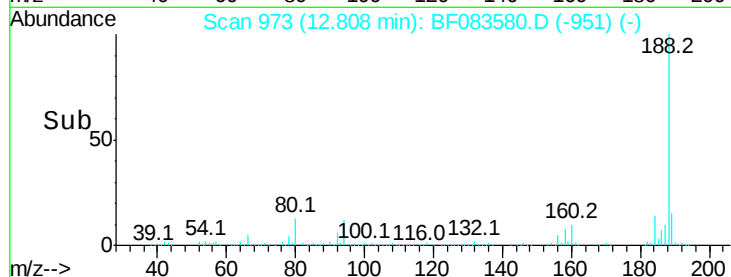
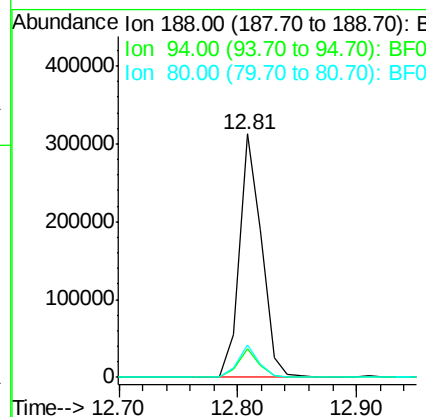
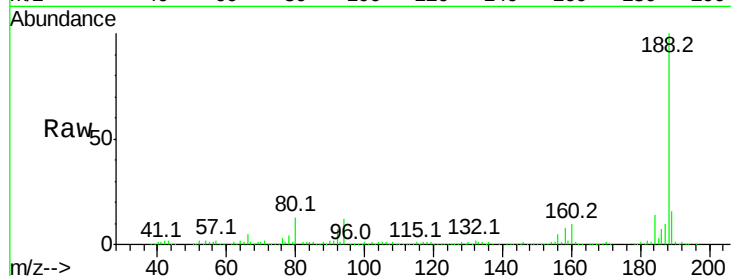
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.81 min Scan# 973  
Delta R.T. -0.05 min  
Lab File: BF083580.D  
Acq: 8 Dec 2015 4:13

Instrument :  
BNA\_F  
ClientSampleId :  
G9BK2DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 405823 |       |       |
| 94      | 11.9  |        | 9.4   | 14.2  |
| 80      | 13.1  |        | 10.6  | 16.0  |

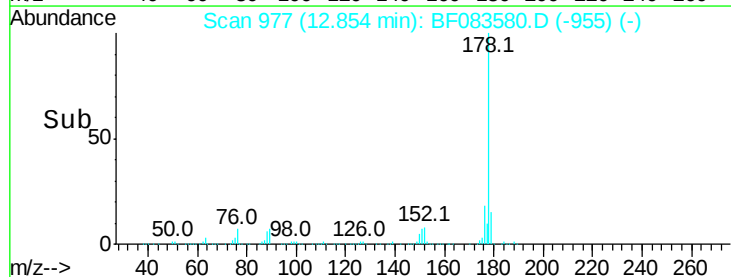
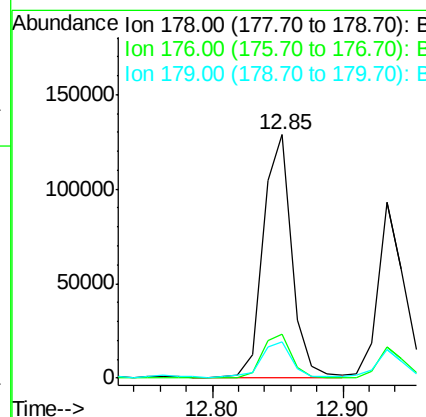
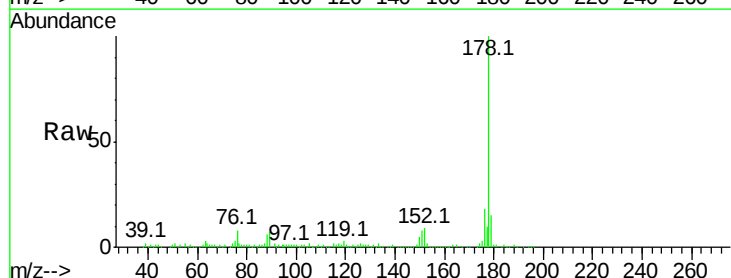
Manual Integrations  
APPROVED

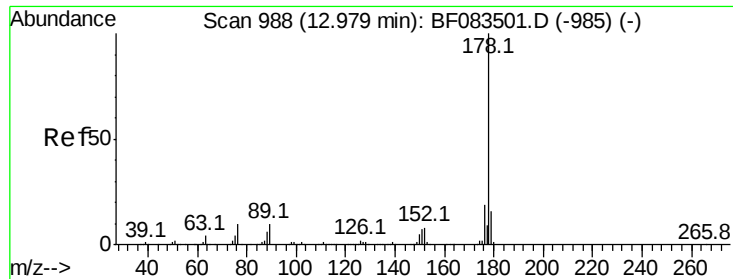
Mmdadoda  
12/8/2015 6:15:50 PM



#70  
Phenanthrene  
Concen: 8.26 ng  
RT: 12.85 min Scan# 977  
Delta R.T. -0.05 min  
Lab File: BF083580.D  
Acq: 8 Dec 2015 4:13

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 195072 |       |       |
| 176     | 18.2  |        | 15.7  | 23.5  |
| 179     | 15.1  |        | 12.2  | 18.4  |





#71

Anthracene

Concen: 5.36 ng

RT: 12.93 min Scan# 984

Delta R.T. -0.05 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

Instrument :

BNA\_F

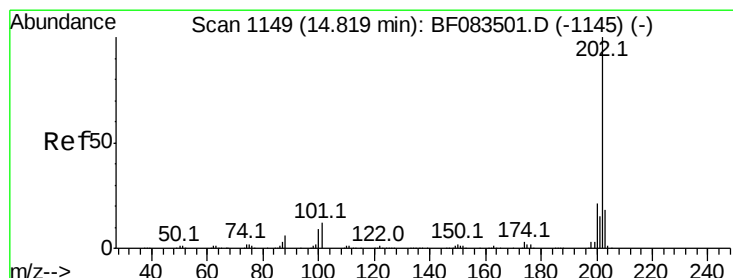
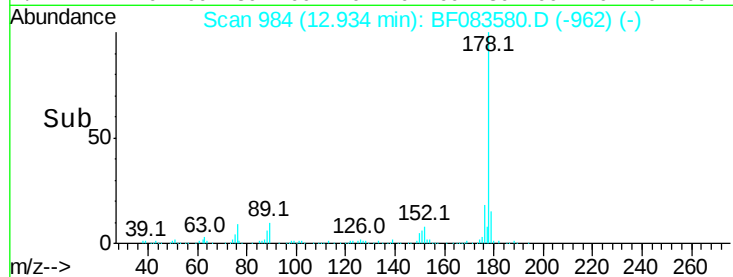
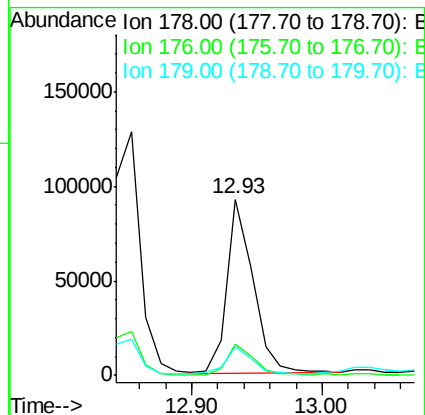
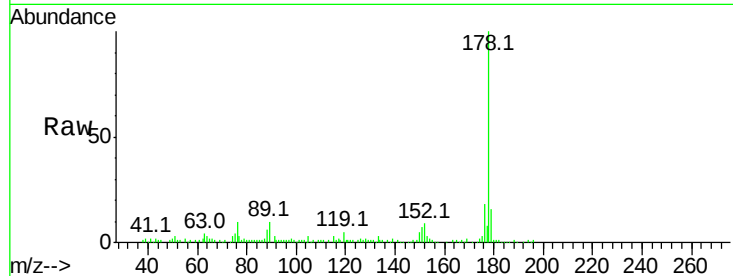
ClientSampleId :

G9BK2DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 129152 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 17.6  | 15.2  | 22.8   |
| 179       | 16.2  | 12.6  | 18.8   |

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#74

Fluoranthene

Concen: 23.16 ng

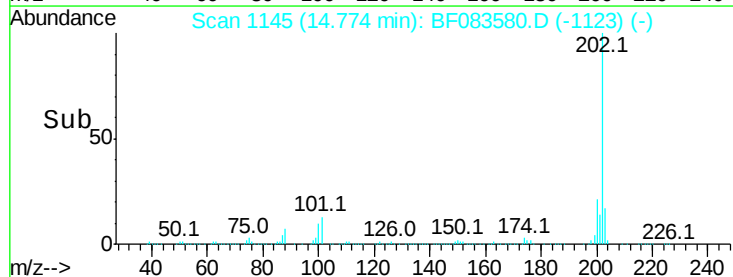
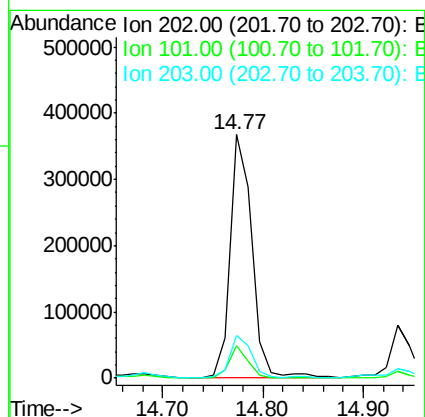
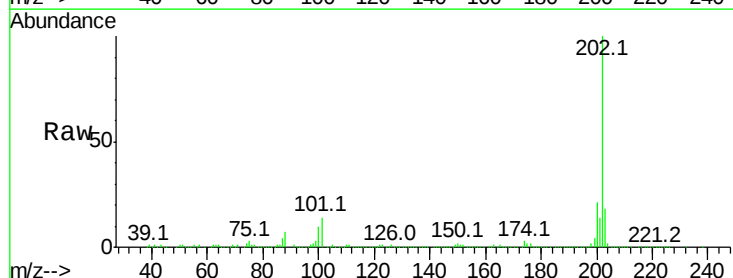
RT: 14.77 min Scan# 1145

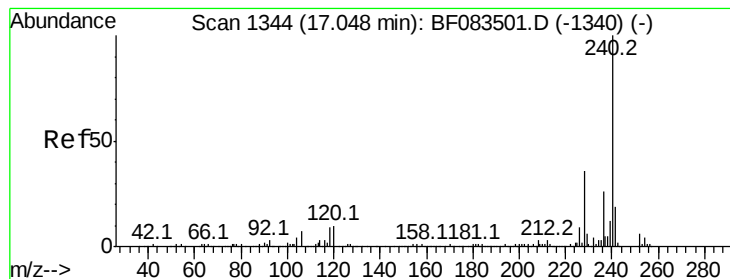
Delta R.T. -0.05 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 542110 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 13.6  | 0.0   | 31.5   |
| 203       | 17.6  | 0.0   | 37.6   |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 17.01 min Scan# 1341

Delta R.T. -0.03 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

Instrument :

BNA\_F

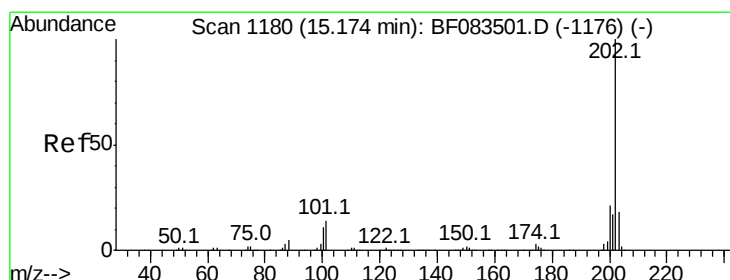
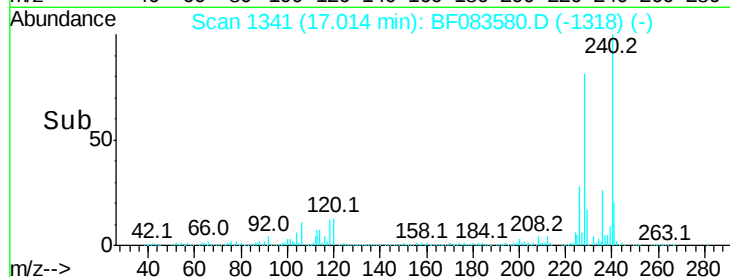
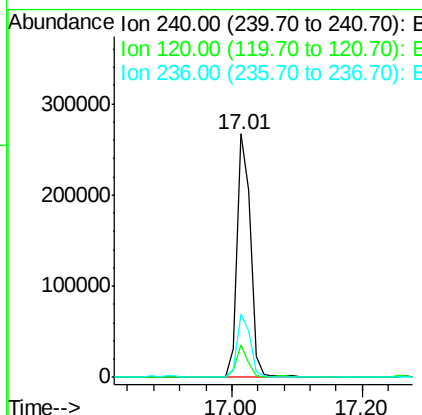
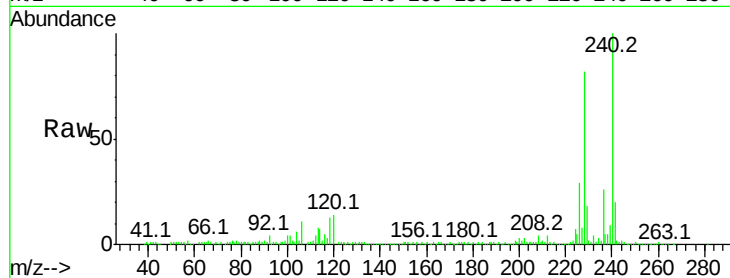
ClientSampleId :

G9BK2DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 369376 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 13.5  | 8.1   | 12.1#  |
| 236       | 25.8  | 20.8  | 31.2   |

Manual Integrations  
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#77

Pyrene

Concen: 26.93 ng

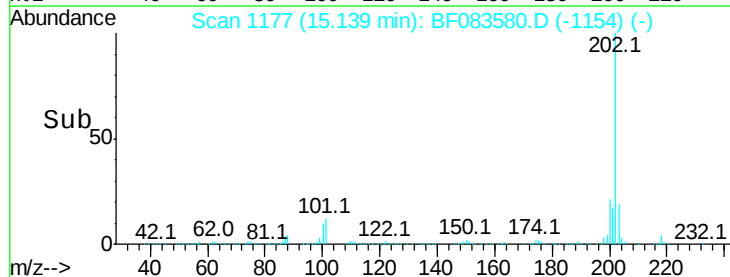
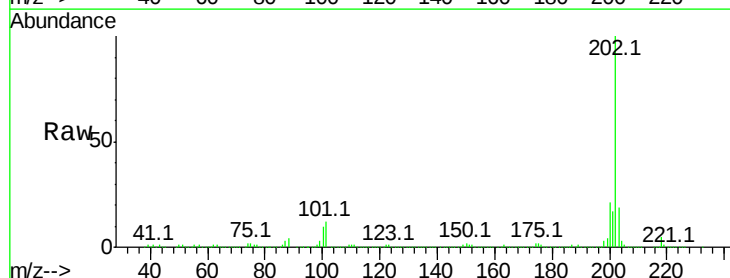
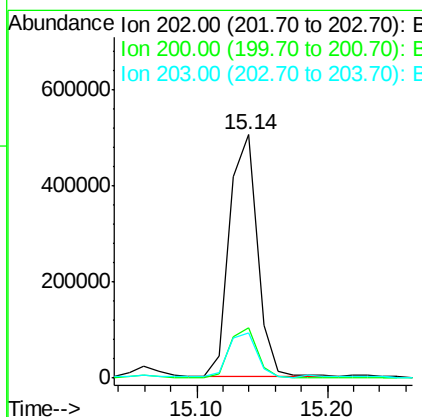
RT: 15.14 min Scan# 1177

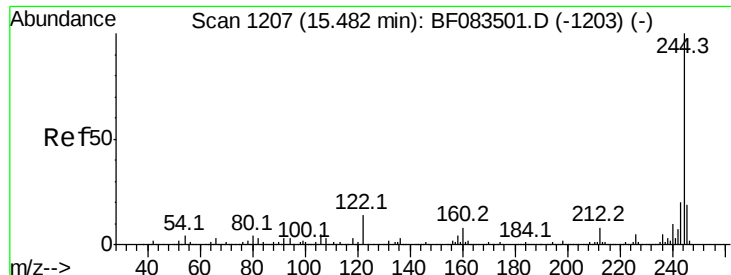
Delta R.T. -0.03 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 744175 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.8  | 16.7  | 25.1   |
| 203       | 18.8  | 14.3  | 21.5   |





#78

Terphenyl-d14

Concen: 10.36 ng

RT: 15.44 min Scan# 1203

Delta R.T. -0.05 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

Instrument :

BNA\_F

ClientSampleId :

G9BK2DL

Tot Ion:244 Resp: 171939

Ion Ratio Lower Upper

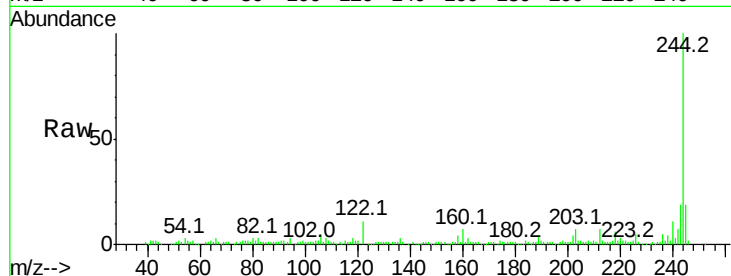
244 100

212 7.1 6.1 9.1

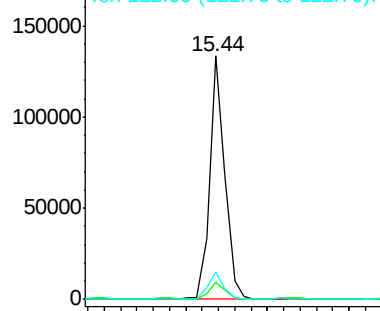
122 11.2 11.0 16.6

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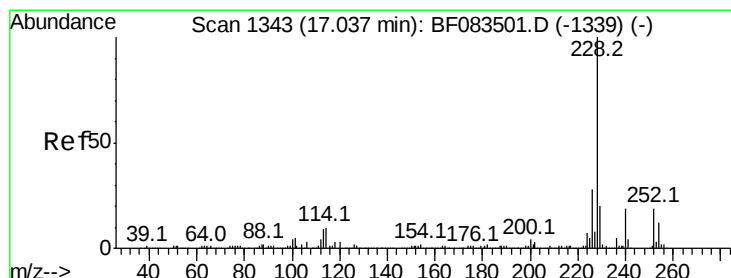
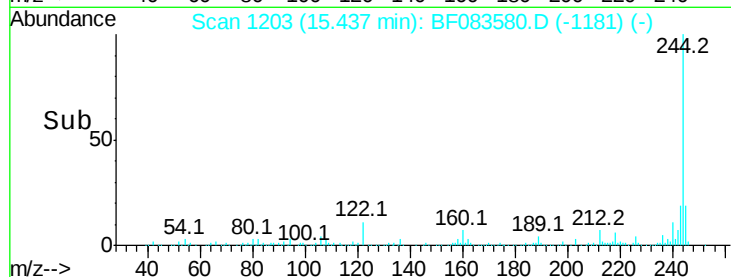
Mmdadoda  
12/8/2015 6:15:50 PM



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



Time-->



#80

Benzo(a)anthracene

Concen: 19.95 ng m

RT: 17.00 min Scan# 1340

Delta R.T. -0.03 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

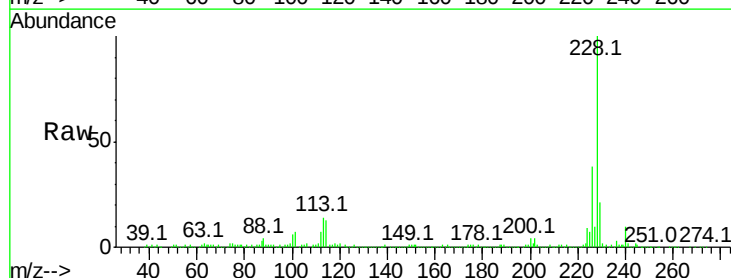
Tgt Ion:228 Resp: 431105

Ion Ratio Lower Upper

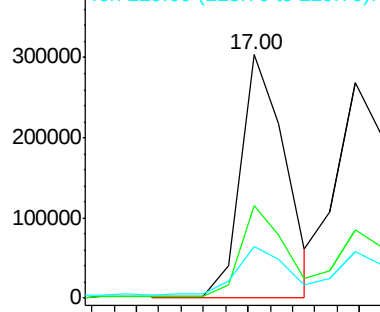
228 100

226 38.1 22.3 33.5#

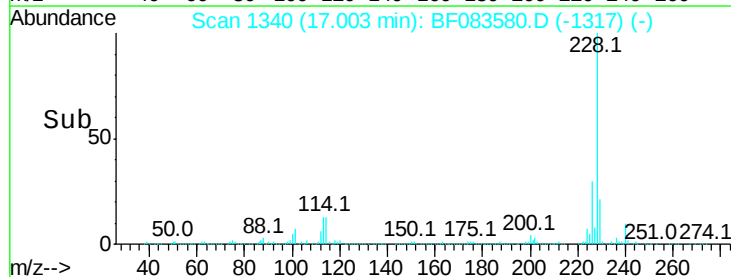
229 21.4 15.7 23.5

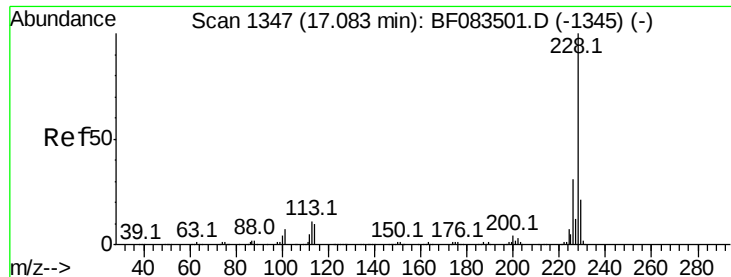


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



Time-->





#82

Chrysene

Concen: 19.98 ng

RT: 17.05 min Scan# 1344

Delta R.T. -0.03 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

Instrument :

BNA\_F

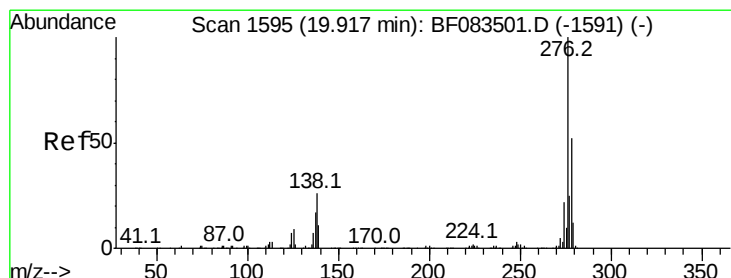
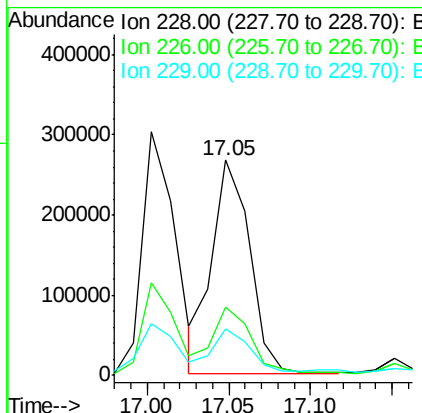
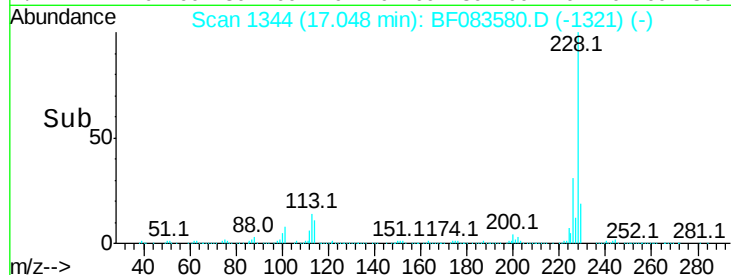
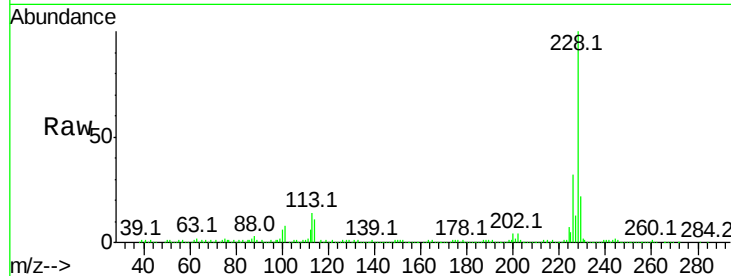
ClientSampleId :

G9BK2DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 430131 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.7  | 24.7  | 37.1   |
| 229       | 21.9  | 16.3  | 24.5   |

Manual Integrations  
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12/8/2015 6:15:50 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.27 ng

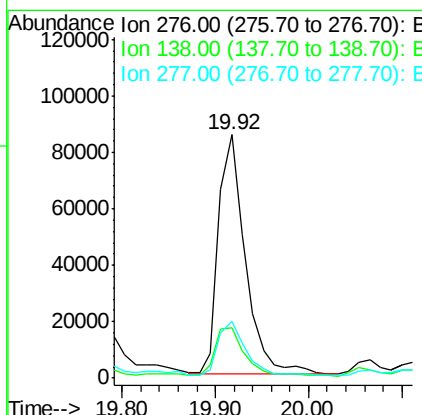
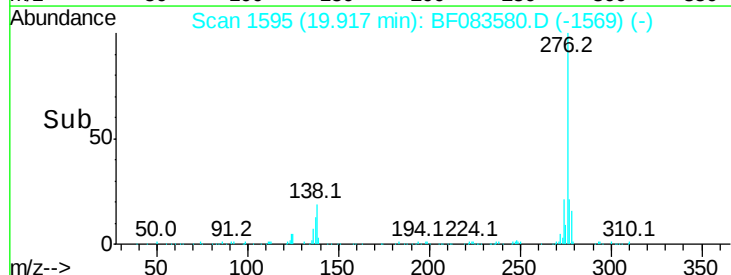
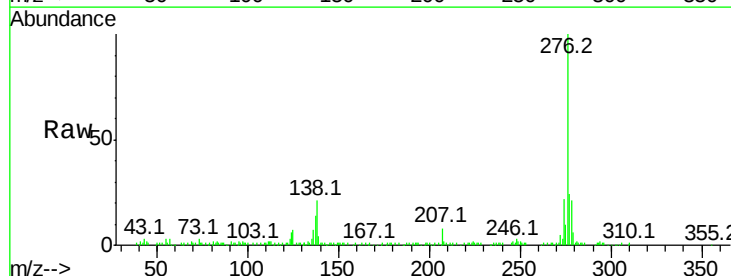
RT: 19.92 min Scan# 1595

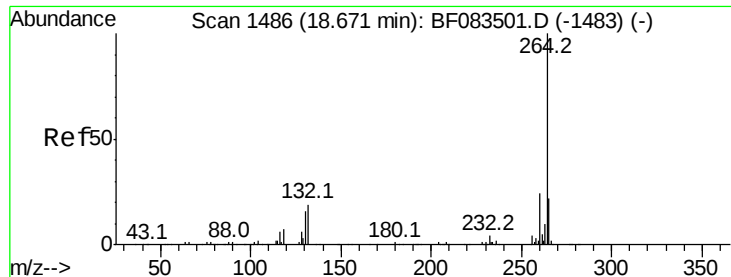
Delta R.T. -0.00 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 171080 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 21.6  | 0.0   | 0.0#   |
| 277       | 23.1  | 0.0   | 0.0#   |





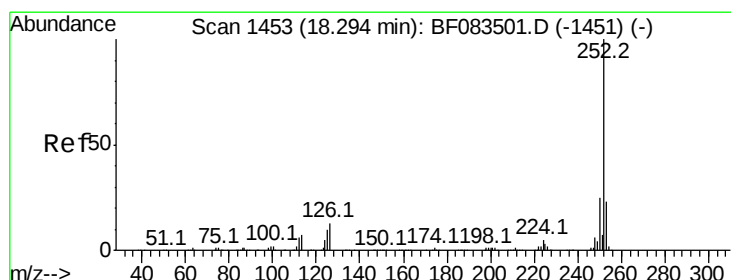
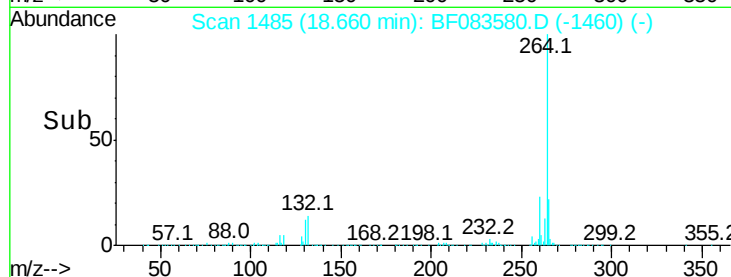
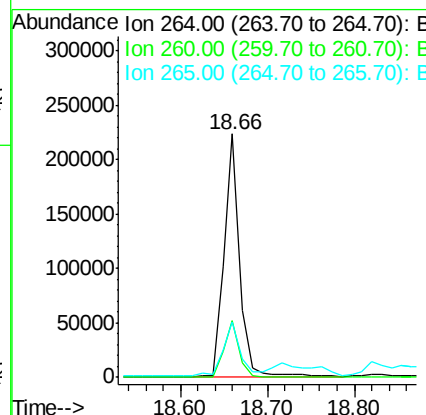
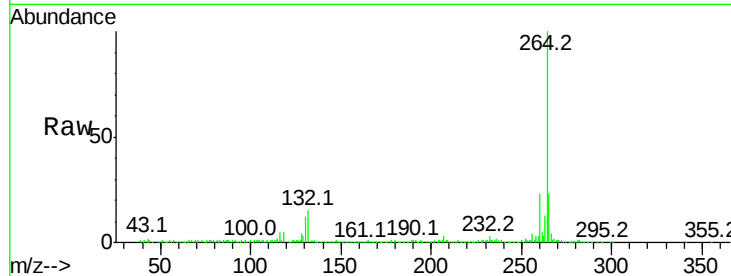
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 18.66 min Scan# 1485  
Delta R.T. -0.01 min  
Lab File: BF083580.D  
Acq: 8 Dec 2015 4:13

Instrument :  
BNA\_F  
ClientSampleId :  
G9BK2DL

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 264     | 100   |            |       |
| 260     | 23.3  | 19.4       | 29.0  |
| 265     | 22.7  | 17.8       | 26.6  |

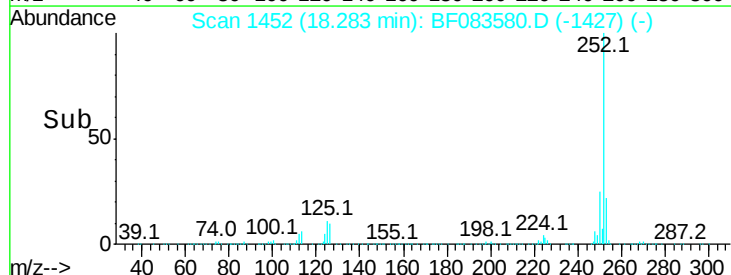
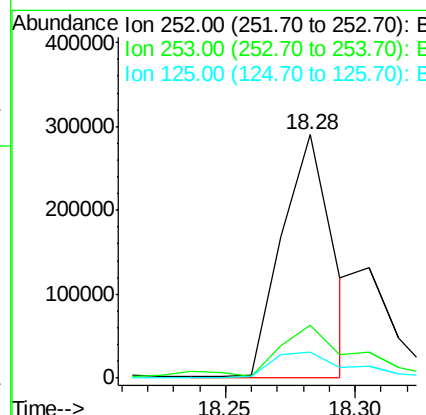
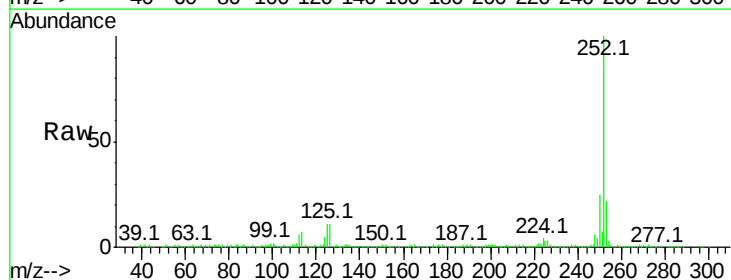
Manual Integrations  
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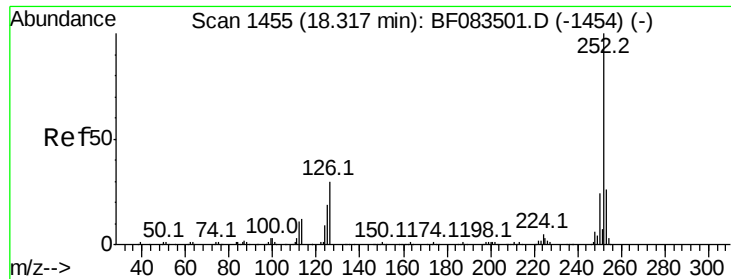
Mmdadoda  
12/8/2015 6:15:50 PM



#87  
Benzo(b)fluoranthene  
Concen: 25.09 ng m  
RT: 18.28 min Scan# 1452  
Delta R.T. -0.01 min  
Lab File: BF083580.D  
Acq: 8 Dec 2015 4:13

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 21.9  | 18.2       | 27.4  |
| 125     | 10.8  | 8.2        | 12.4  |





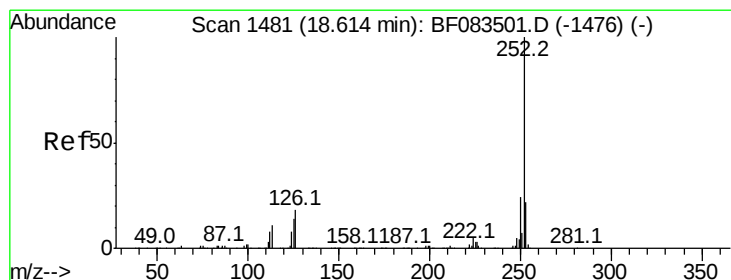
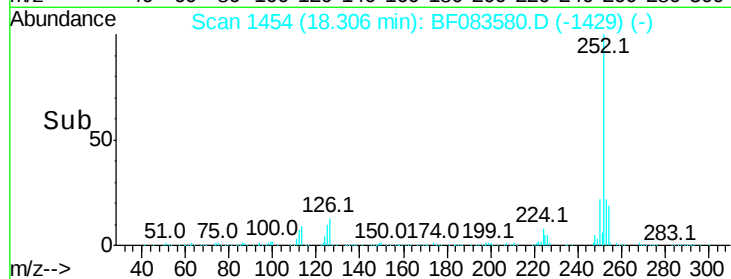
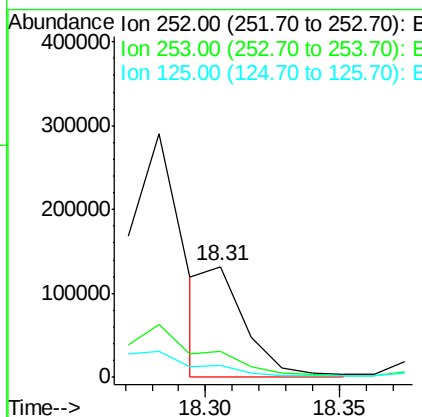
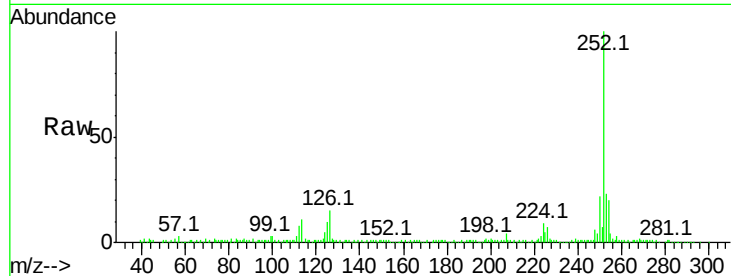
#88  
Benzo(k)fluoranthene  
Concen: 8.34 ng m  
RT: 18.31 min Scan# 1454  
Delta R.T. -0.01 min  
Lab File: BF083580.D  
Acq: 8 Dec 2015 4:13

Instrument :  
BNA\_F  
ClientSampleId :  
G9BK2DL

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 22.9  | 18.6       | 27.8       |
| 125     | 10.4  | 11.5       | 17.3       |

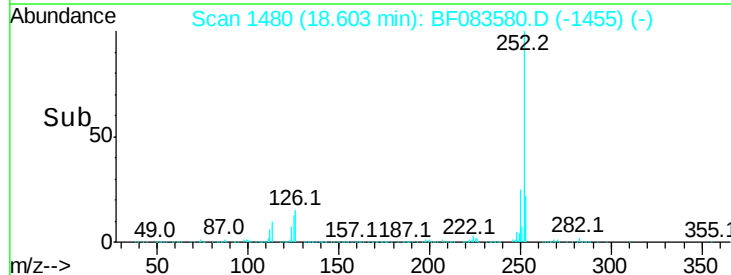
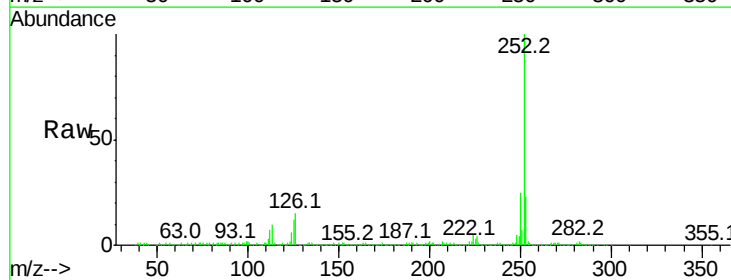
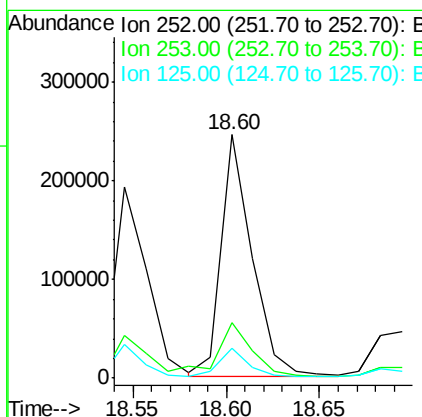
Manual Integrations  
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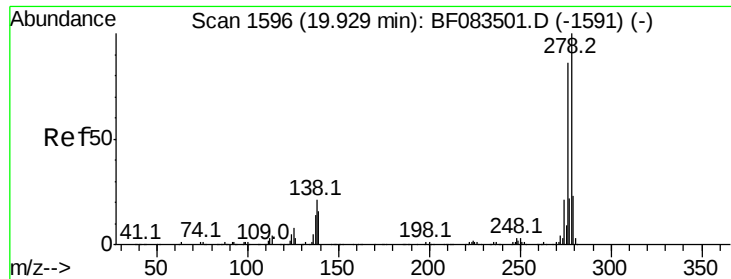
Mmdadoda  
12/8/2015 6:15:50 PM



#89  
Benzo(a)pyrene  
Concen: 18.21 ng  
RT: 18.60 min Scan# 1480  
Delta R.T. -0.01 min  
Lab File: BF083580.D  
Acq: 8 Dec 2015 4:13

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 22.7  | 17.5       | 26.3       |
| 125     | 12.2  | 11.0       | 16.6       |





#90

Dibenzo(a,h)anthracene

Concen: 2.84 ng/mL

RT: 19.92 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

Instrument :

BNA\_F

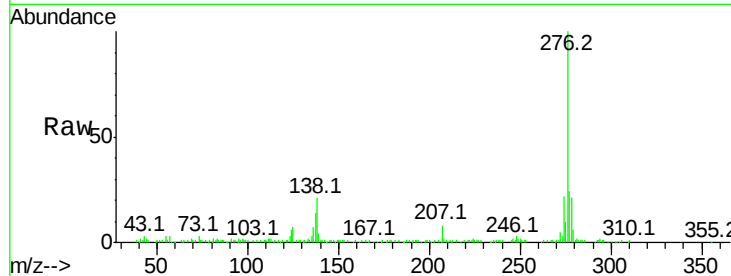
ClientSampleID :

G9BK2DL

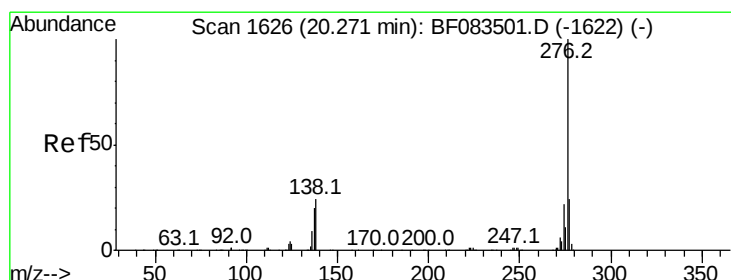
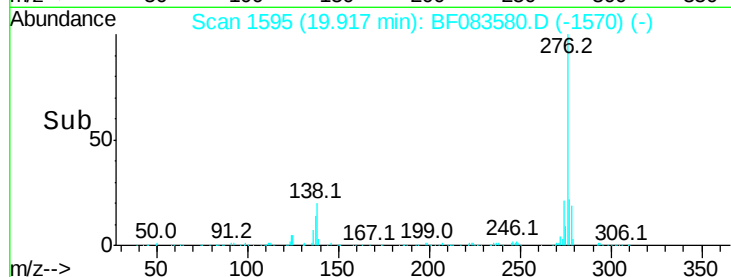
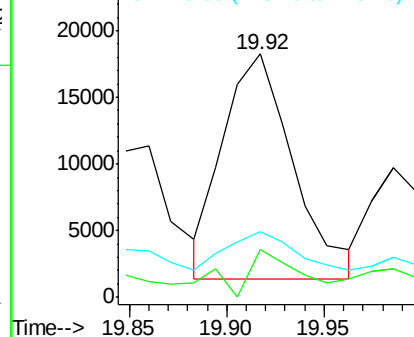
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 278   | Resp: | 42363 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 19.6  | 12.8  | 19.2# |
| 279       | 27.1  | 18.6  | 28.0  |

Manual Integrations  
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12/8/2015 6:15:50 PM



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 11.37 ng/mL

RT: 20.27 min Scan# 1626

Delta R.T. -0.00 min

Lab File: BF083580.D

Acq: 8 Dec 2015 4:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 170740 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.3  | 19.2  | 28.8   |
| 138       | 23.5  | 19.5  | 29.3   |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

