

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042216\  
 Data File : BF086410.D  
 Acq On : 24 Apr 2016 00:42  
 Operator : UM/SJ  
 Sample : H2652-13 4X  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPG-B6(0-6.5)-C

Manual Integrations  
 APPROVED

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 4/25/2016 12:36:15 PM

Quant Time: Apr 25 07:20:36 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Apr 23 00:24:02 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)   |
|-----------------------------|-------|------|----------|-------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.84  | 152  | 157063   | 20.00 | ng    | 0.00       |
| 21) Naphthalene-d8          | 8.13  | 136  | 606692   | 20.00 | ng    | 0.00       |
| 38) Acenaphthene-d10        | 9.88  | 164  | 247474   | 20.00 | ng    | 0.00       |
| 63) Phenanthrene-d10        | 11.37 | 188  | 437889   | 20.00 | ng    | 0.00       |
| 75) Chrysene-d12            | 14.00 | 240  | 324207   | 20.00 | ng    | 0.00       |
| 86) Perylene-d12            | 15.43 | 264  | 227387   | 20.00 | ng    | 0.01       |
| System Monitoring Compounds |       |      |          |       |       |            |
| 5) 2-Fluorophenol           | 5.44  | 112  | 266064   | 29.25 | ng    | 0.01       |
| 7) Phenol-d6                | 6.48  | 99   | 346049   | 27.99 | ng    | 0.00       |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 176230   | 17.21 | ng    | -0.01      |
| 41) 2,4,6-Tribromophenol    | 10.67 | 330  | 51696    | 23.08 | ng    | 0.00       |
| 44) 2-Fluorobiphenyl        | 9.21  | 172  | 335355   | 23.12 | ng    | 0.00       |
| 78) Terphenyl-d14           | 12.94 | 244  | 287903   | 22.06 | ng    | 0.00       |
| Target Compounds            |       |      |          |       |       |            |
| 49) Dimethylphthalate       | 9.60  | 163  | 36362    | 2.03  | ng    | Qvalue 100 |
| 74) Fluoranthene            | 12.57 | 202  | 70759    | 2.98  | ng    | 96         |
| 77) Pyrene                  | 12.80 | 202  | 64905    | 2.87  | ng    | 97         |
| 80) Benzo(a)anthracene      | 13.99 | 228  | 34683    | 2.06  | ng    | 92         |
| 87) Benzo(b)fluoranthene    | 15.01 | 252  | 27111m   | 2.17  | ng    |            |

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

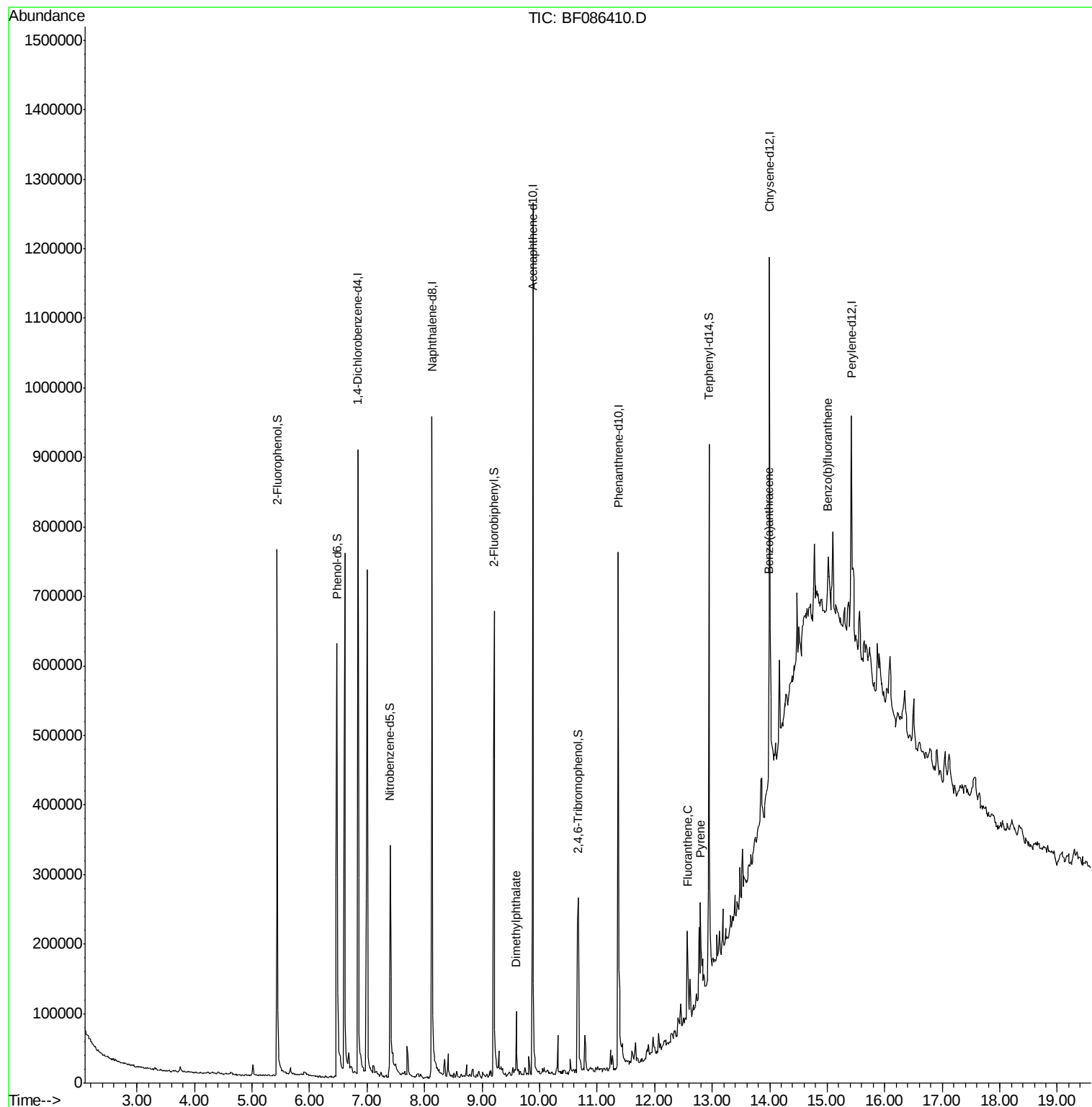
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042216\  
Data File : BF086410.D  
Acq On : 24 Apr 2016 00:42  
Operator : UM/SJ  
Sample : H2652-13 4X  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

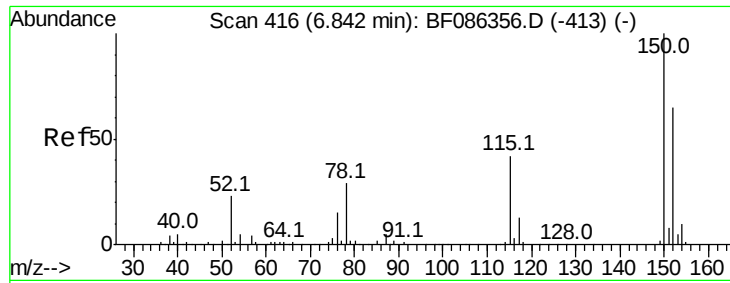
Instrument :  
BNA\_F  
ClientSampleId :  
WPG-B6(0-6.5)-C

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4/25/2016 12:36:15 PM

Quant Time: Apr 25 07:20:36 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Apr 23 00:24:02 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.84 min Scan# 416

Delta R.T. -0.00 min

Lab File: BF086410.D

Acq: 24 Apr 2016 00:42

Instrument :

BNA\_F

ClientSampleId :

WPG-B6(0-6.5)-C

Tot Ion:152 Resp: 157063

Ion Ratio Lower Upper

152 100

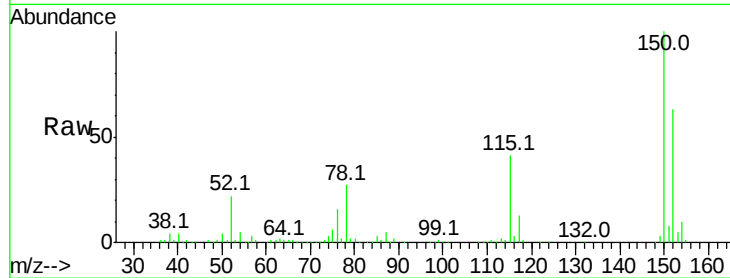
150 158.6 125.8 188.6

115 64.8 51.5 77.3

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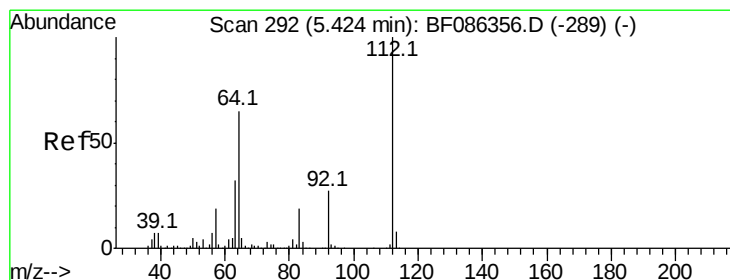
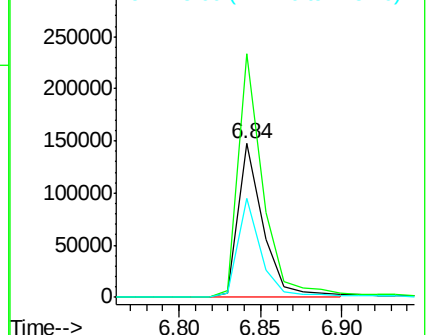
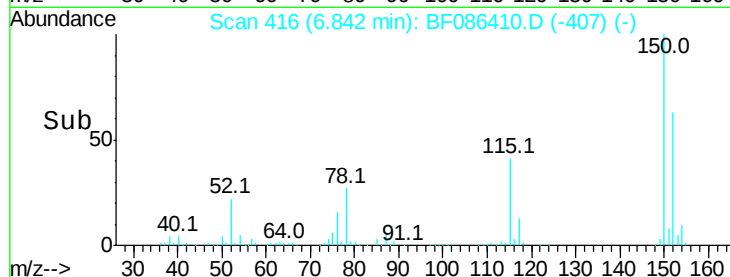


Abundance

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: 29.25 ng

RT: 5.44 min Scan# 293

Delta R.T. 0.01 min

Lab File: BF086410.D

Acq: 24 Apr 2016 00:42

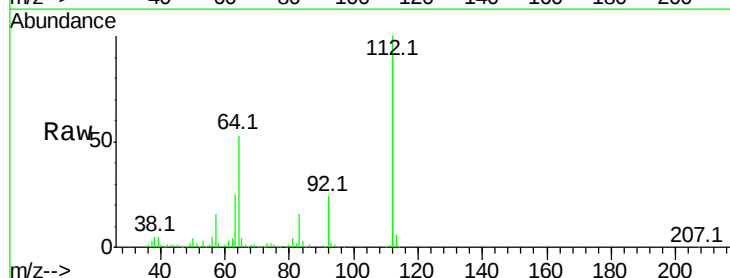
Tgt Ion:112 Resp: 266064

Ion Ratio Lower Upper

112 100

64 52.6 52.1 78.1

63 25.5 25.7 38.5#

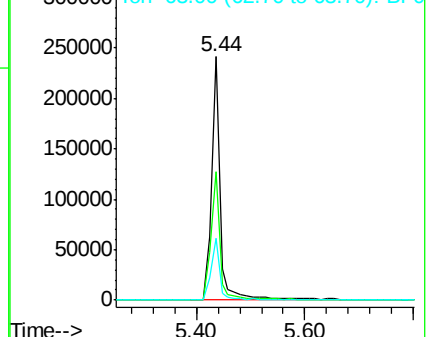
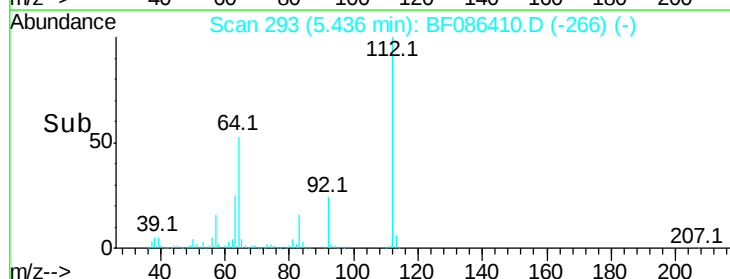


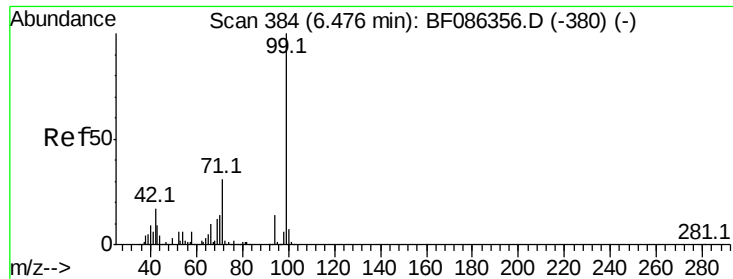
Abundance

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: 27.99 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.00 min

Lab File: BF086410.D

Acq: 24 Apr 2016 00:42

Instrument :

BNA\_F

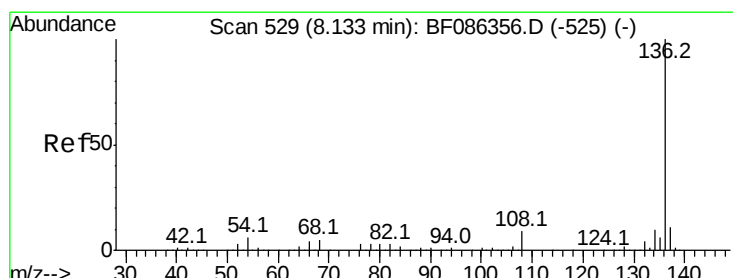
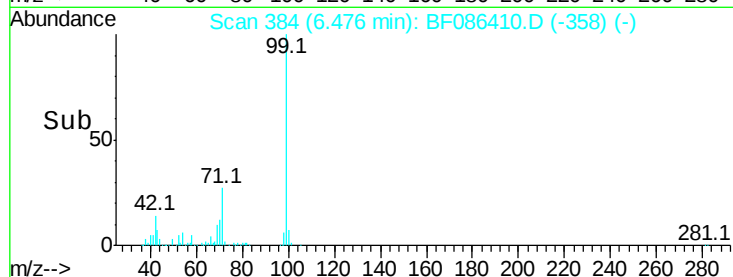
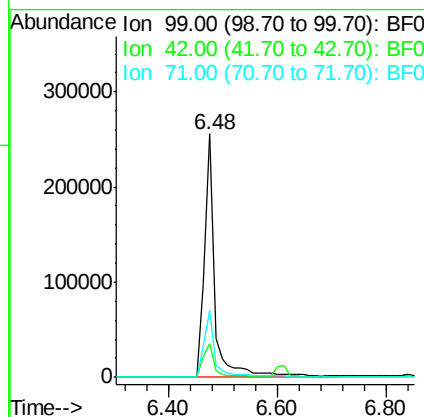
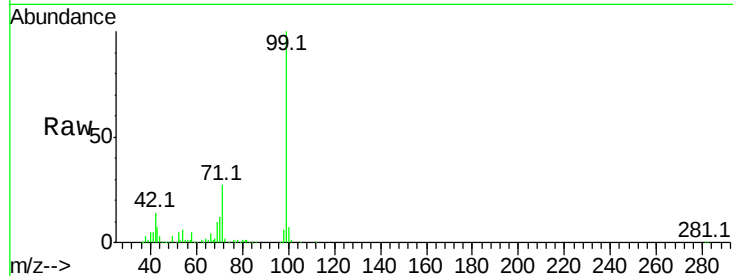
ClientSampleId :

WPG-B6(0-6.5)-C

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 346049 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 13.7  | 13.6  | 20.4   |
| 71        | 27.4  | 24.6  | 36.8   |

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#21

Naphthalene-d8

Concen: 20.00 ng

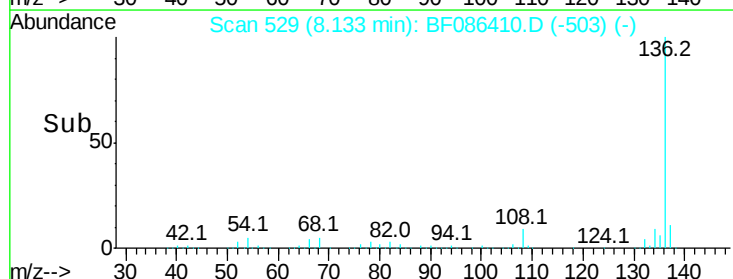
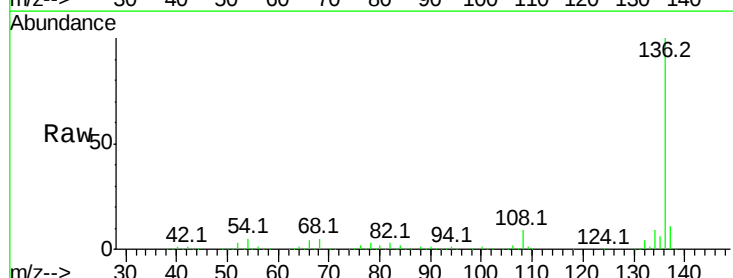
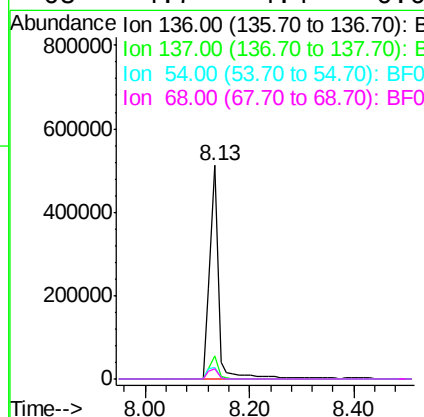
RT: 8.13 min Scan# 529

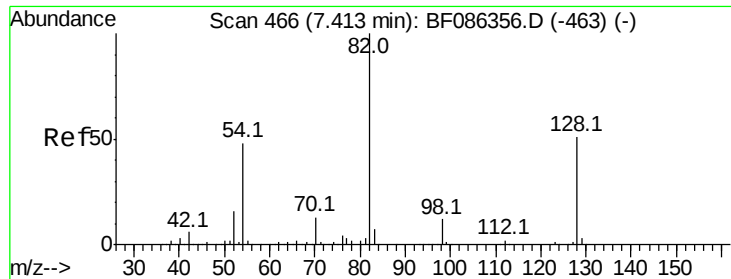
Delta R.T. -0.00 min

Lab File: BF086410.D

Acq: 24 Apr 2016 00:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 606692 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.7  | 8.8   | 13.2   |
| 54        | 5.3   | 5.0   | 7.4    |
| 68        | 4.7   | 4.4   | 6.6    |





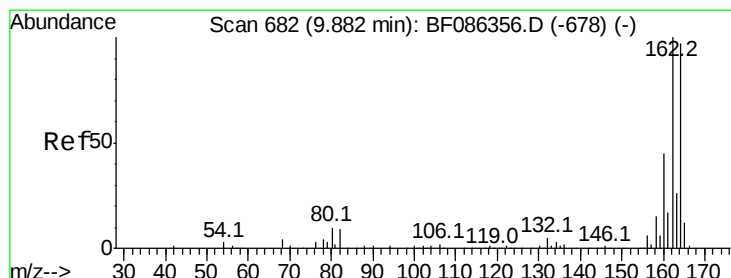
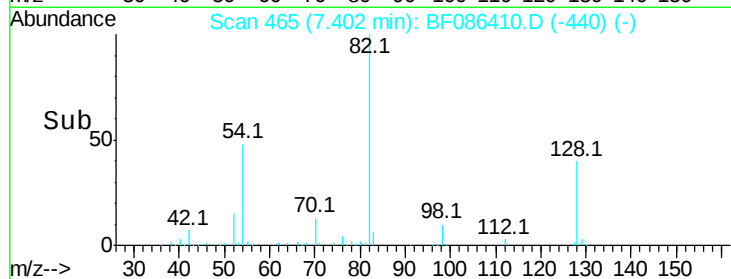
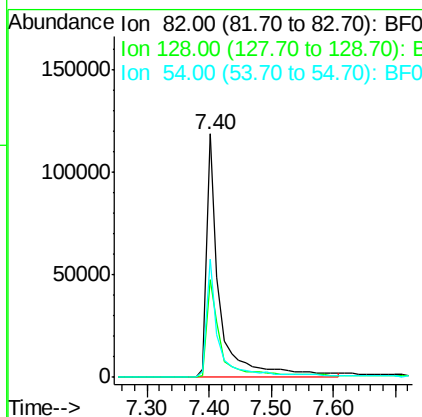
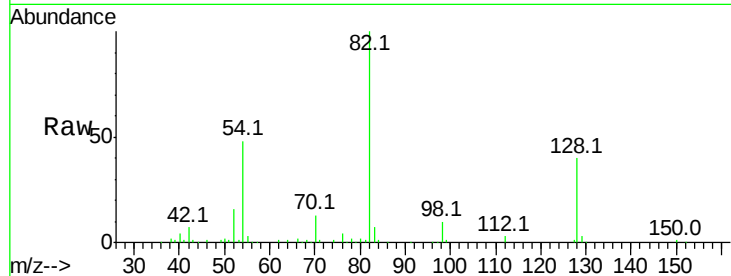
#23  
 Nitrobenzene-d5  
 Concen: 17.21 ng  
 RT: 7.40 min Scan# 465  
 Delta R.T. -0.01 min  
 Lab File: BF086410.D  
 Acq: 24 Apr 2016 00:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPG-B6(0-6.5)-C

| Tot Ion   | 82   | Resp  | 176230 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 40.0 | 40.6  | 61.0#  |
| 54        | 48.4 | 38.1  | 57.1   |

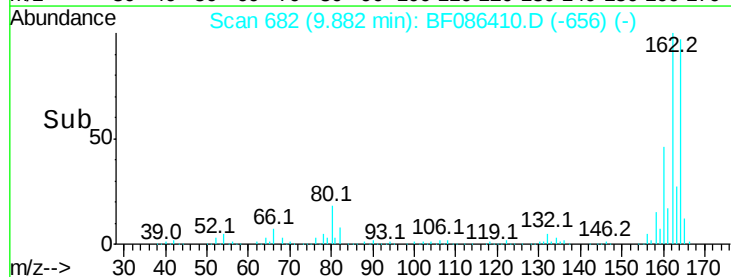
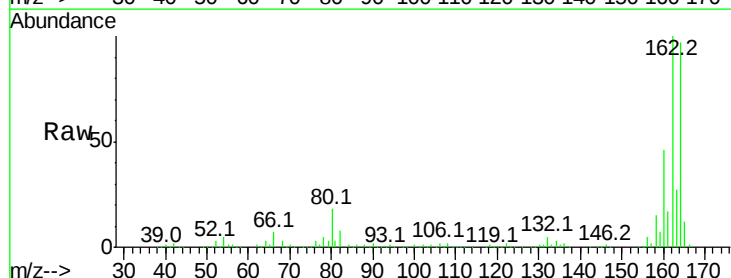
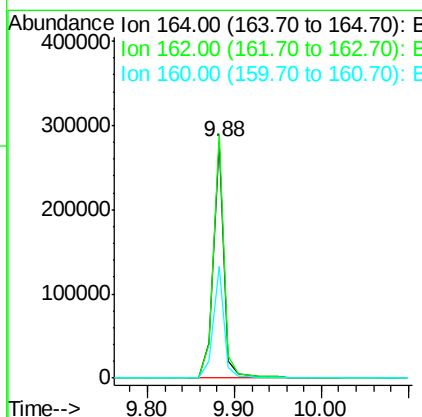
Manual Integrations  
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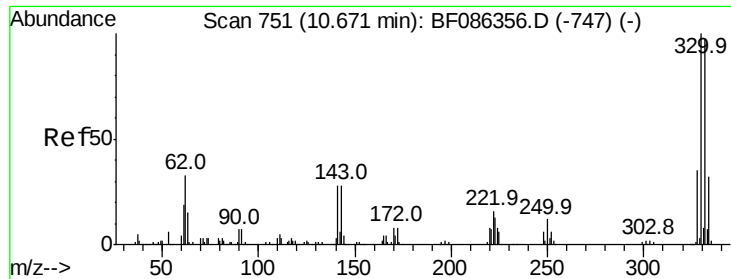
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.88 min Scan# 682  
 Delta R.T. -0.00 min  
 Lab File: BF086410.D  
 Acq: 24 Apr 2016 00:42

| Tgt Ion   | 164   | Resp  | 247474 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 162       | 103.2 | 82.8  | 124.2  |
| 160       | 47.6  | 36.9  | 55.3   |





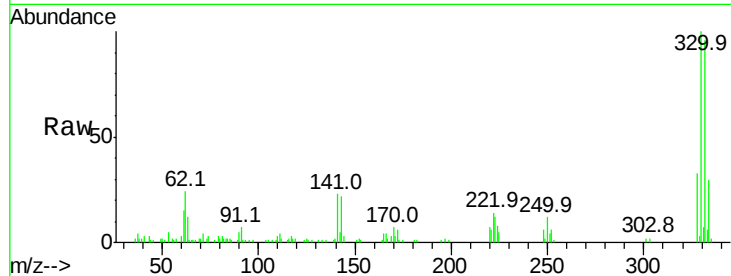
#41  
 2,4,6-Tribromophenol  
 Concen: 23.08 ng  
 RT: 10.67 min Scan# 751  
 Delta R.T. -0.00 min  
 Lab File: BF086410.D  
 Acq: 24 Apr 2016 00:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPG-B6(0-6.5)-C

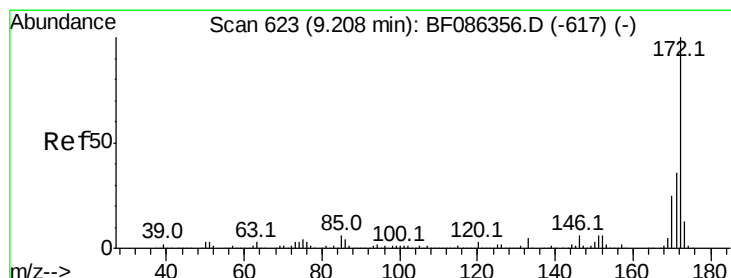
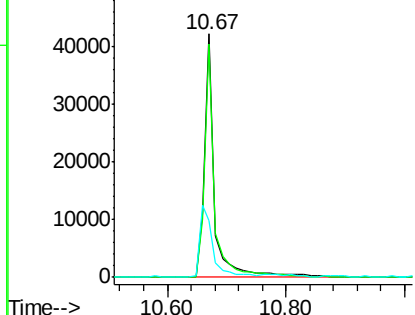
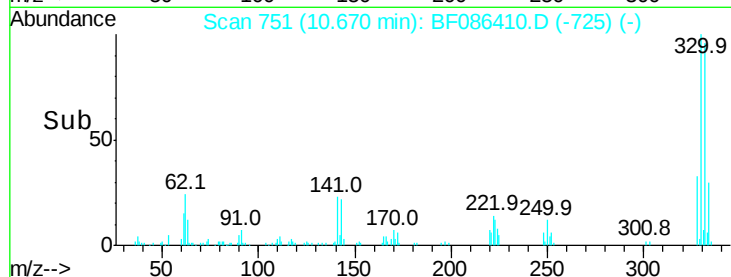
| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 51696 |       |       |
| 332     | 95.1  |       | 79.0  | 118.4 |
| 141     | 38.8  |       | 31.2  | 46.8  |

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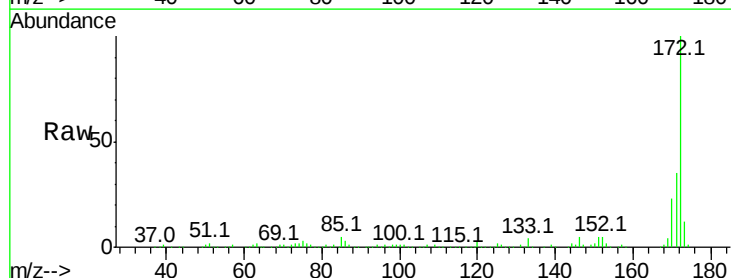


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

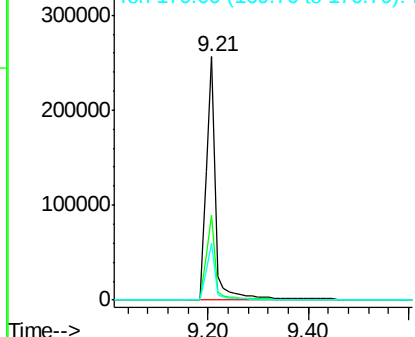
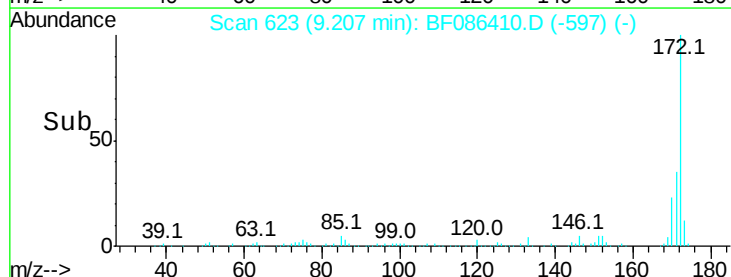


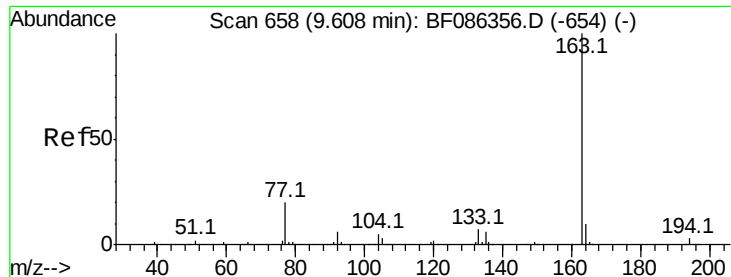
#44  
 2-Fluorobiphenyl  
 Concen: 23.12 ng  
 RT: 9.21 min Scan# 623  
 Delta R.T. -0.00 min  
 Lab File: BF086410.D  
 Acq: 24 Apr 2016 00:42

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 335355 |       |       |
| 171     | 34.8  |        | 29.0  | 43.6  |
| 170     | 23.5  |        | 19.8  | 29.8  |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





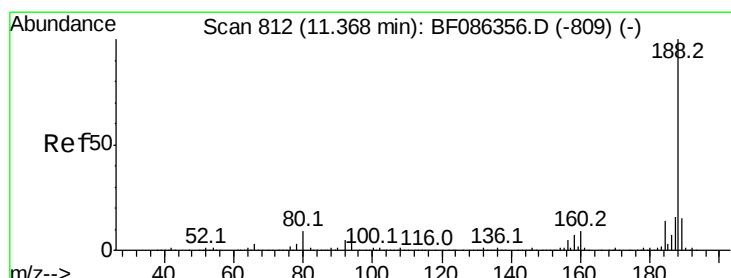
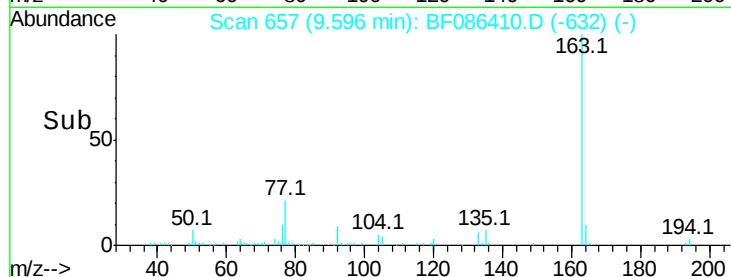
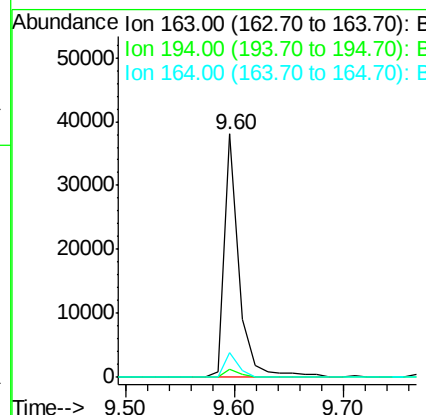
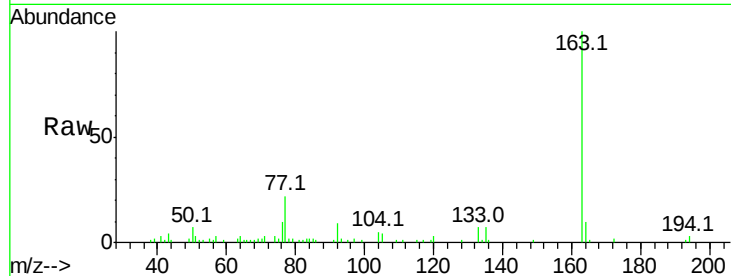
#49  
Dimethylphthalate  
Concen: 2.03 ng  
RT: 9.60 min Scan# 657  
Delta R.T. -0.01 min  
Lab File: BF086410.D  
Acq: 24 Apr 2016 00:42

Instrument :  
BNA\_F  
ClientSampleId :  
WPG-B6(0-6.5)-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.4   | 2.6   | 4.0   |
| 164     | 10.4  | 8.2   | 12.4  |

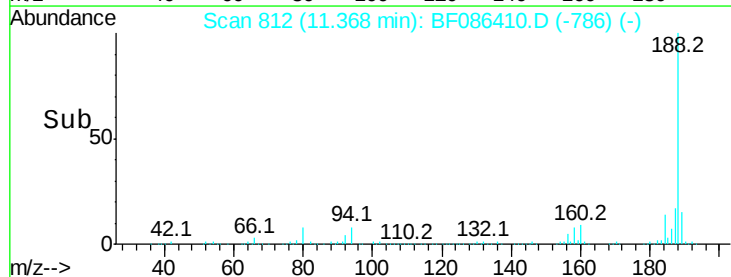
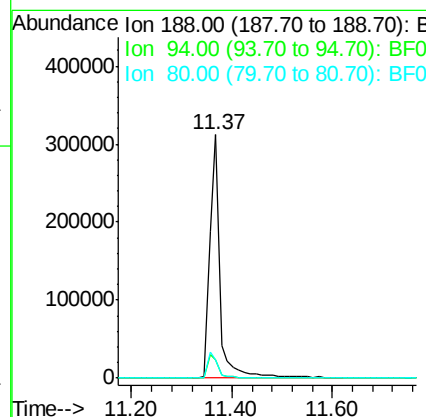
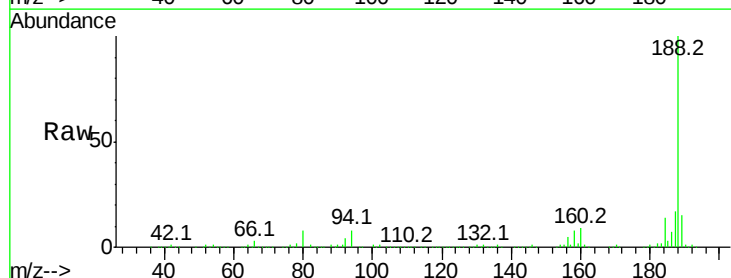
Manual Integrations  
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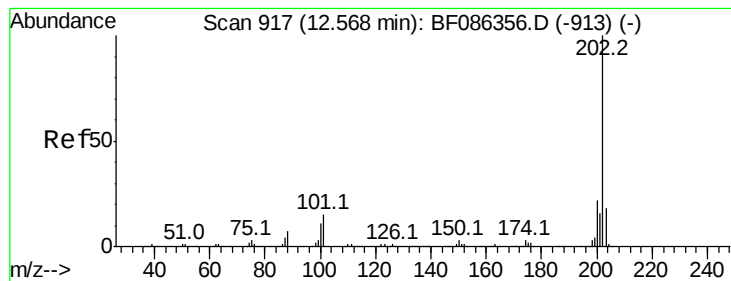
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.37 min Scan# 812  
Delta R.T. -0.00 min  
Lab File: BF086410.D  
Acq: 24 Apr 2016 00:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.6   | 6.8   | 10.2  |
| 80      | 7.7   | 7.1   | 10.7  |





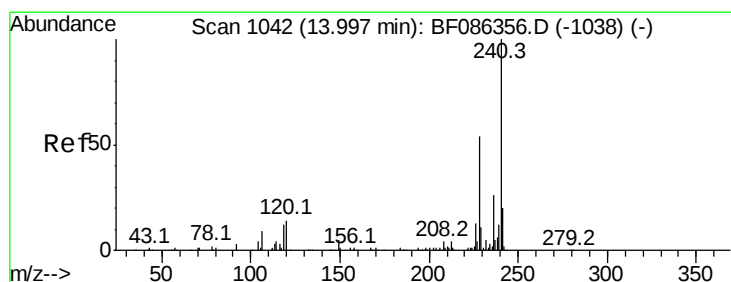
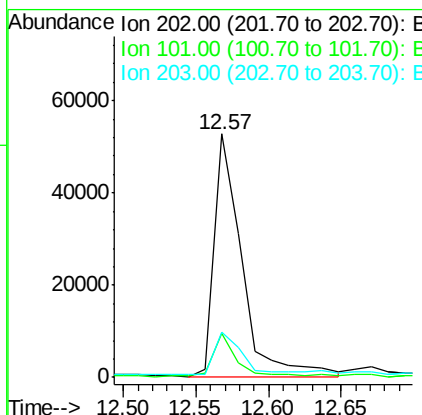
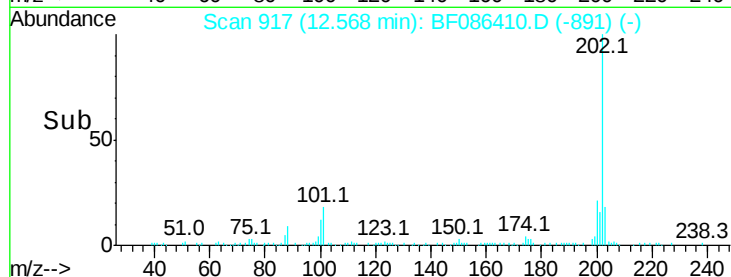
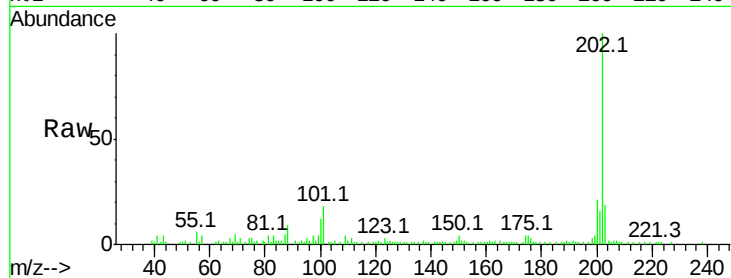
#74  
 Fluoranthene  
 Concen: 2.98 ng  
 RT: 12.57 min Scan# 917  
 Delta R.T. -0.00 min  
 Lab File: BF086410.D  
 Acq: 24 Apr 2016 00:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPG-B6(0-6.5)-C

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 18.0  | 0.0        | 35.4  |
| 203     | 18.7  | 0.0        | 38.1  |

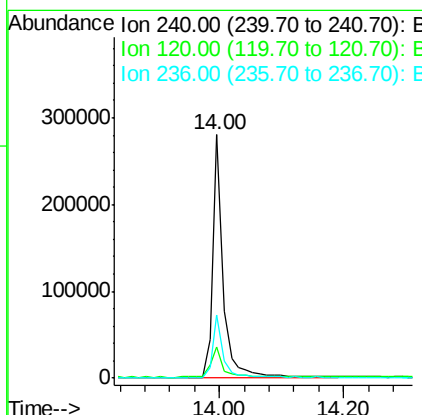
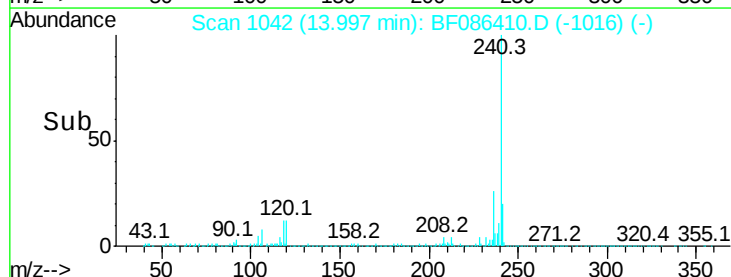
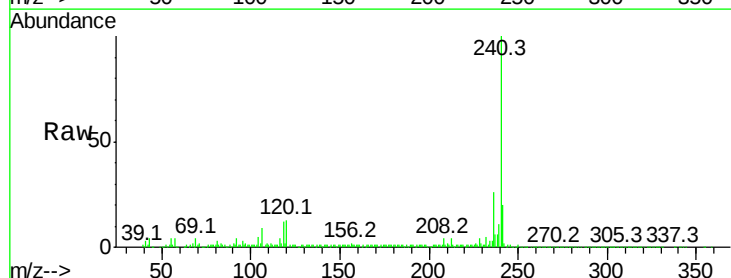
Manual Integrations  
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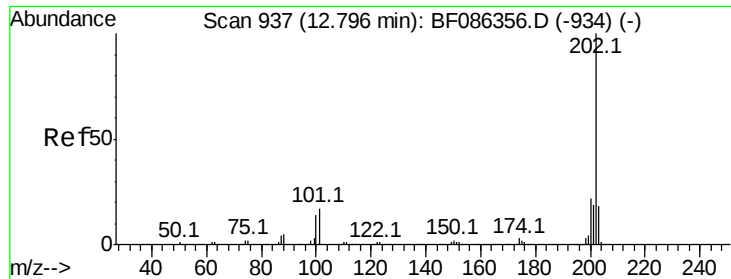
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#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.00 min Scan# 1042  
 Delta R.T. -0.00 min  
 Lab File: BF086410.D  
 Acq: 24 Apr 2016 00:42

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 12.7  | 11.2       | 16.8  |
| 236     | 26.0  | 21.2       | 31.8  |





#77

Pvrene

Concen: 2.87 ng

RT: 12.80 min Scan# 937

Delta R.T. -0.00 min

Lab File: BF086410.D

Acq: 24 Apr 2016 00:42

Instrument :

BNA\_F

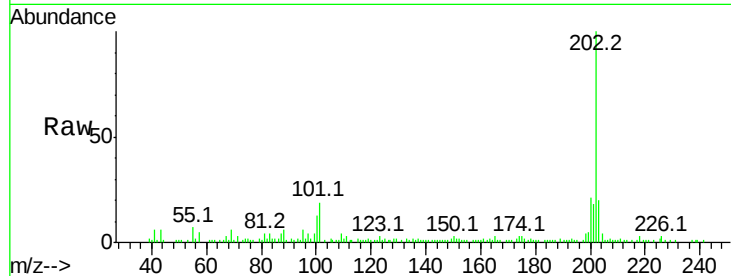
ClientSampleId :

WPG-B6(0-6.5)-C

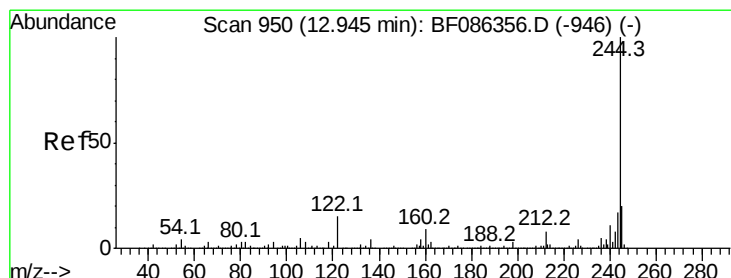
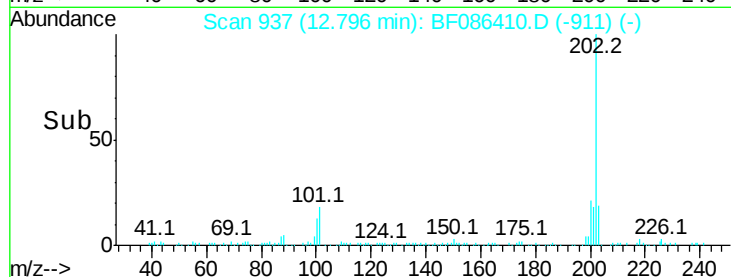
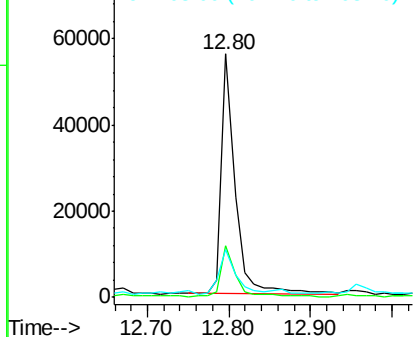
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 64905 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.2  | 17.7  | 26.5  |
| 203       | 19.8  | 14.2  | 21.4  |

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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: 22.06 ng

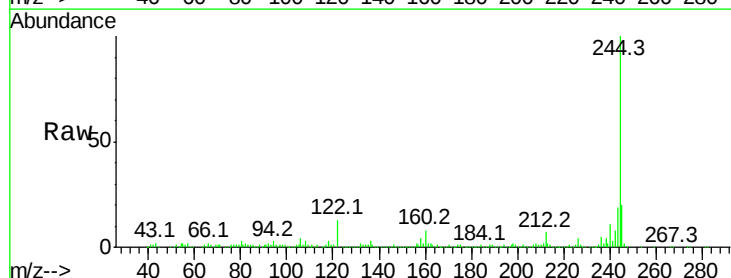
RT: 12.94 min Scan# 950

Delta R.T. -0.00 min

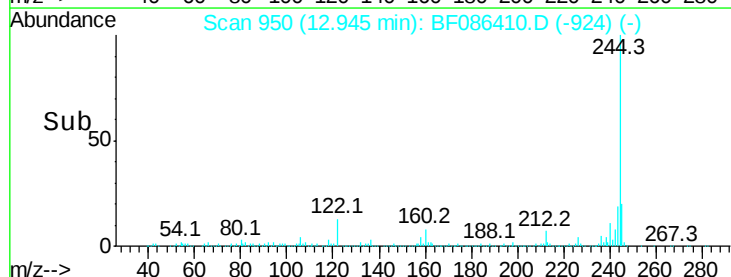
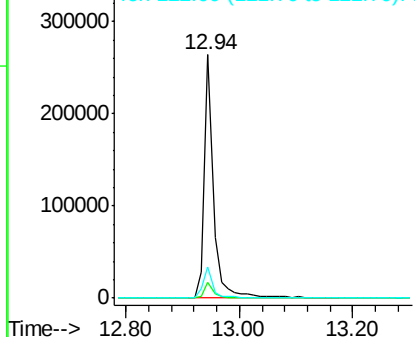
Lab File: BF086410.D

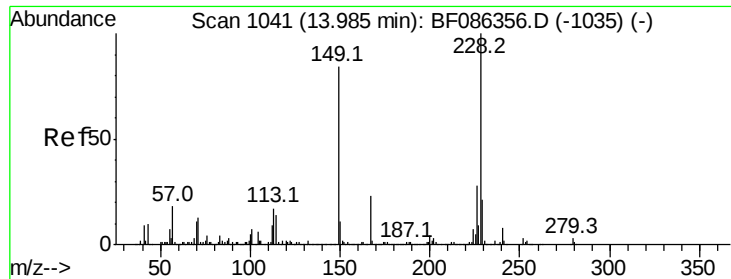
Acq: 24 Apr 2016 00:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 287903 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.6   | 6.2   | 9.2    |
| 122       | 12.9  | 12.0  | 18.0   |



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





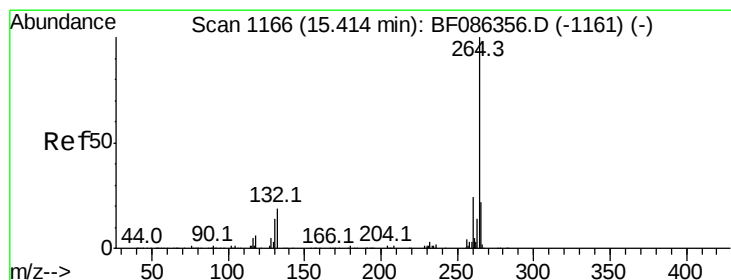
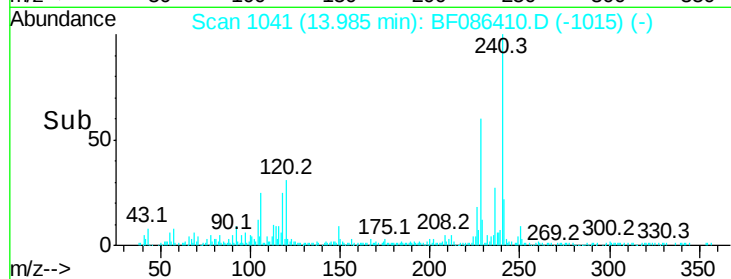
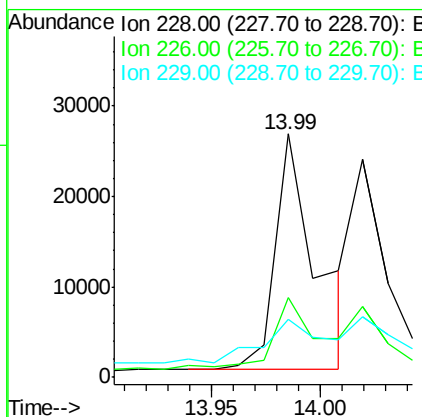
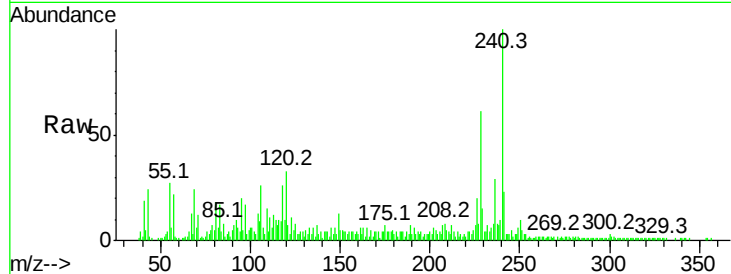
#80  
Benzo(a)anthracene  
Concen: 2.06 ng  
RT: 13.99 min Scan# 1041  
Delta R.T. -0.00 min  
Lab File: BF086410.D  
Acq: 24 Apr 2016 00:42

Instrument :  
BNA\_F  
ClientSampleId :  
WPG-B6(0-6.5)-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.8  | 22.5  | 33.7  |
| 229     | 24.1  | 16.6  | 25.0  |

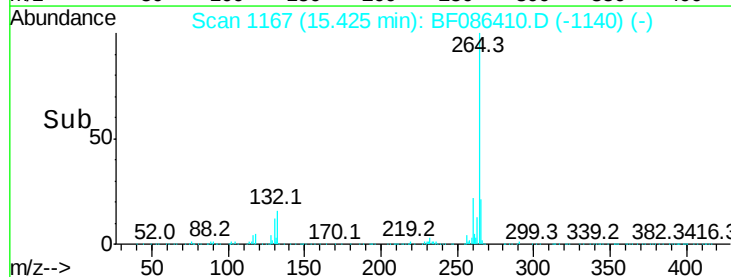
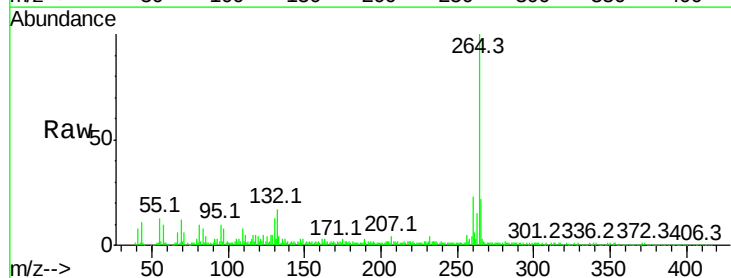
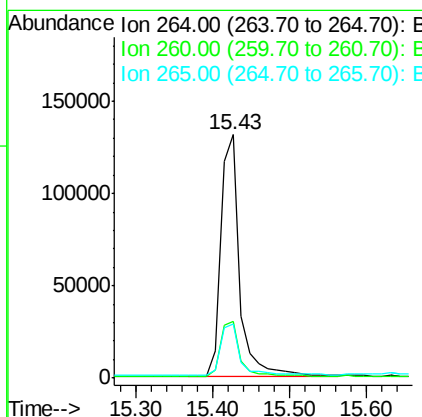
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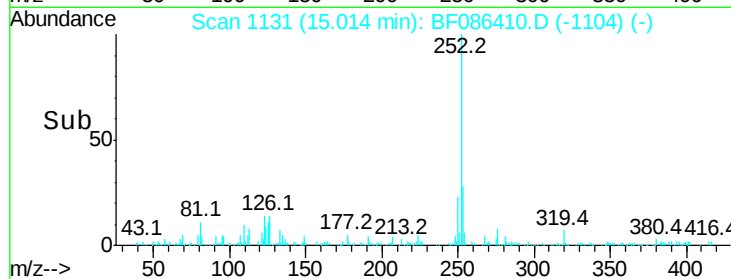
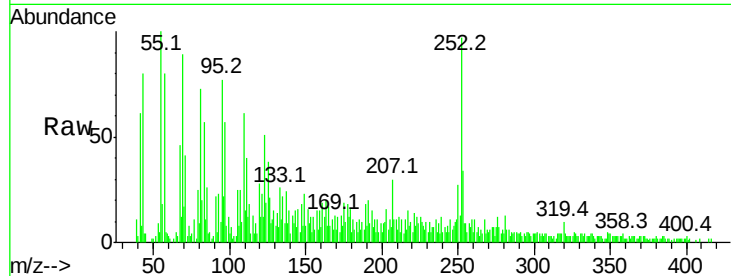
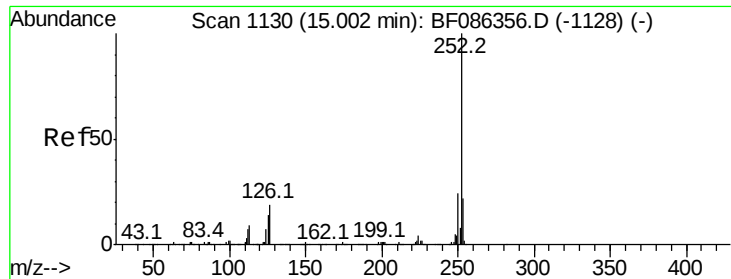
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.43 min Scan# 1167  
Delta R.T. 0.01 min  
Lab File: BF086410.D  
Acq: 24 Apr 2016 00:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 19.5  | 29.3  |
| 265     | 22.1  | 17.3  | 25.9  |





#87  
 Benzo(b)fluoranthene  
 Concen: 2.17 ng m  
 RT: 15.01 min Scan# 1131  
 Delta R.T. 0.01 min  
 Lab File: BF086410.D  
 Acq: 24 Apr 2016 00:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPG-B6(0-6.5)-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 35.4  | 17.8  | 26.6# |
| 125     | 39.3  | 11.4  | 17.0# |

Manual Integrations  
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