

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060816\  
 Data File : BF087824.D  
 Acq On : 8 Jun 2016 22:16  
 Operator : UM/SJ  
 Sample : H3379-14 2X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-9

Manual Integrations  
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Quant Time: Jun 09 04:33:19 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 07 18:51:55 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.82  | 152  | 96375    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.11  | 136  | 432479   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.87  | 164  | 186429   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.36 | 188  | 278545   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 13.99 | 240  | 242367   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.42 | 264  | 196536   | 20.00 | ng    | 0.02     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.42  | 112  | 250268   | 44.39 | ng    | -0.01    |
| 7) Phenol-d6                | 6.46  | 99   | 360174   | 52.72 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.38  | 82   | 187583   | 25.33 | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.66 | 330  | 65585    | 33.32 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.19  | 172  | 269031   | 18.33 | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.94 | 244  | 222794   | 20.92 | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 9.59  | 163  | 107289   | 7.94  | ng    | 99       |
| 70) Phenanthrene            | 11.38 | 178  | 204421   | 13.99 | ng    | 97       |
| 71) Anthracene              | 11.43 | 178  | 60588    | 4.11  | ng    | 97       |
| 74) Fluoranthene            | 12.56 | 202  | 244430   | 15.85 | ng    | 96       |
| 77) Pyrene                  | 12.79 | 202  | 212995   | 11.84 | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.98 | 228  | 121236   | 8.78  | ng    | 99       |
| 82) Chrysene                | 14.01 | 228  | 83710m   | 6.44  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.80 | 276  | 30849    | 2.56  | ng    | # 100    |
| 87) Benzo(b)fluoranthene    | 15.01 | 252  | 82152m   | 6.00  | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.02 | 252  | 39680m   | 3.84  | ng    |          |
| 89) Benzo(a)pyrene          | 15.36 | 252  | 67621    | 6.10  | ng    | # 94     |
| 91) Benzo(a,h,i)perylene    | 17.21 | 276  | 29511    | 2.79  | ng    | 97       |

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

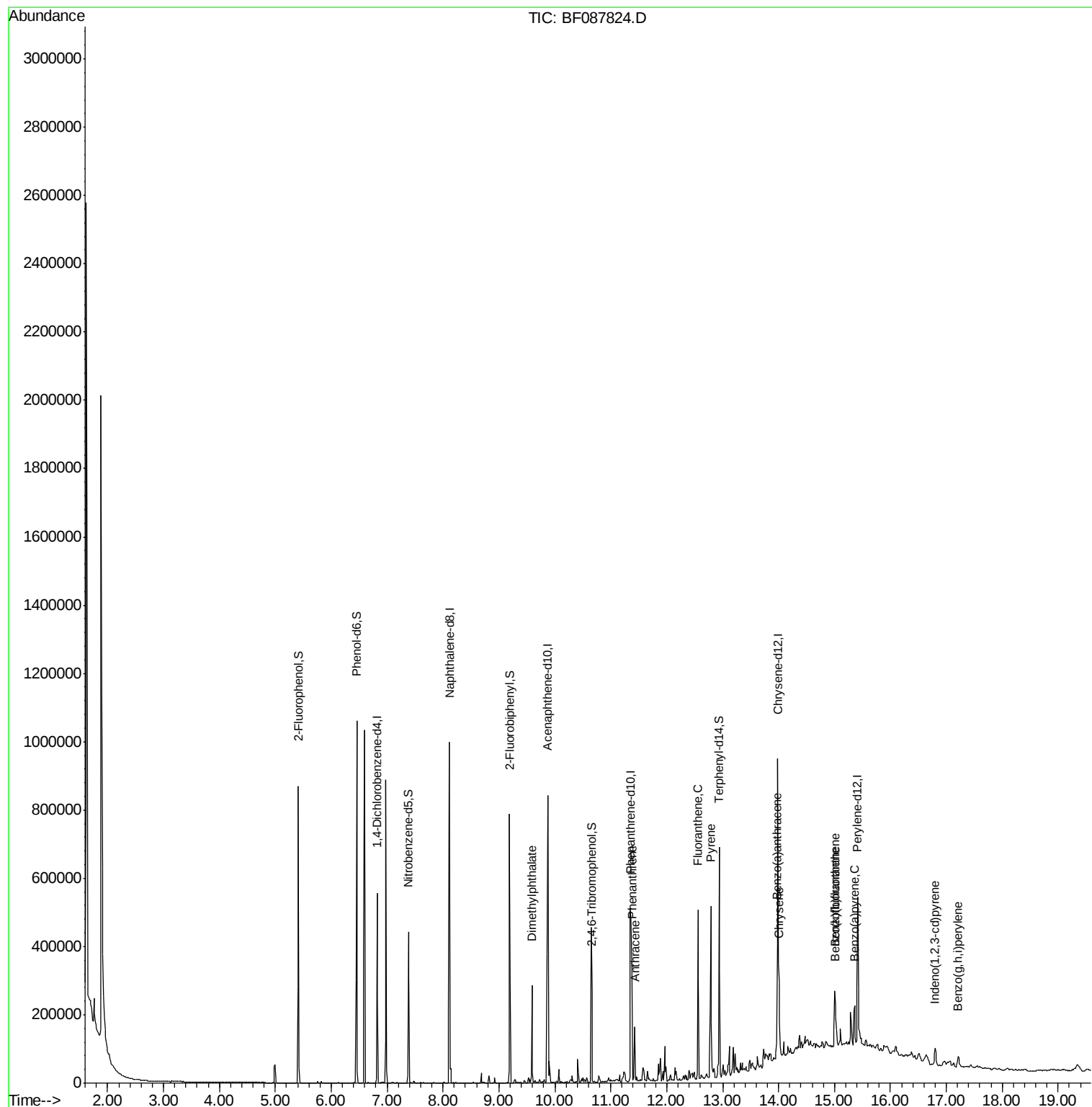
Data Path : Z:\HPCHEM1\BNA F\DATA\BF060816\  
Data File : BF087824.D  
Acq On : 8 Jun 2016 22:16  
Operator : UM/SJ  
Sample : H3379-14 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-9

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Quant Time: Jun 09 04:33:19 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 07 18:51:55 2016  
Response via : Initial Calibration





#1

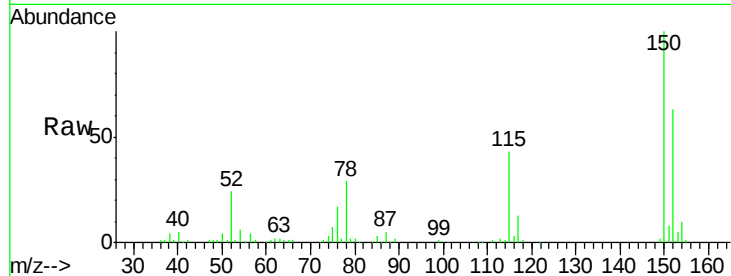
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.82 min Scan# 458  
Delta R.T. -0.02 min  
Lab File: BF087824.D  
Acq: 8 Jun 2016 22:16

Instrument :  
BNA\_F  
ClientSampled :  
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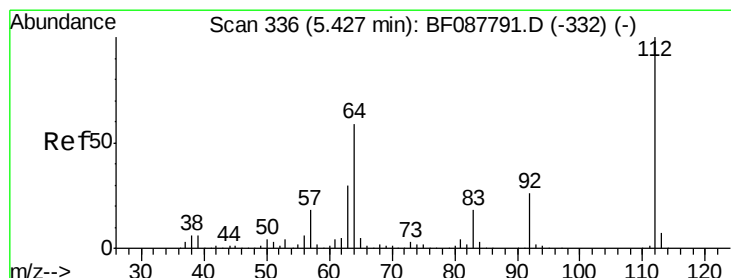
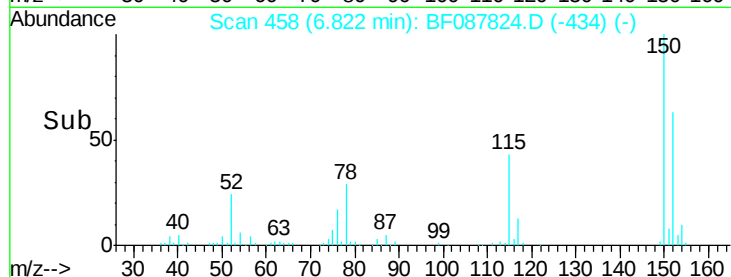
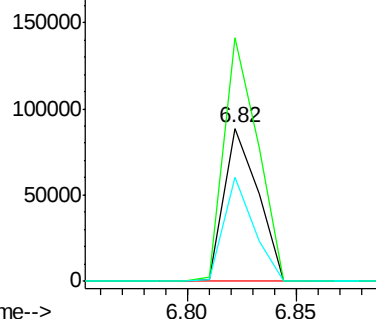
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.3 | 123.8 | 185.6 |
| 115     | 68.1  | 39.6  | 59.4  |

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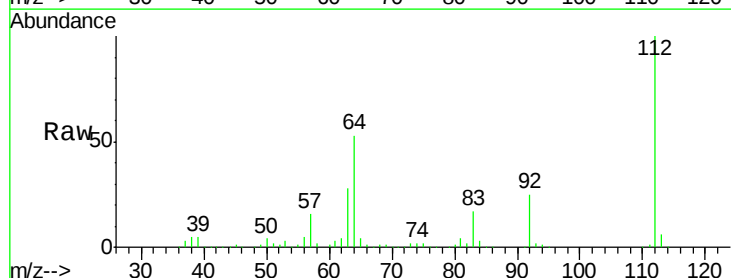
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



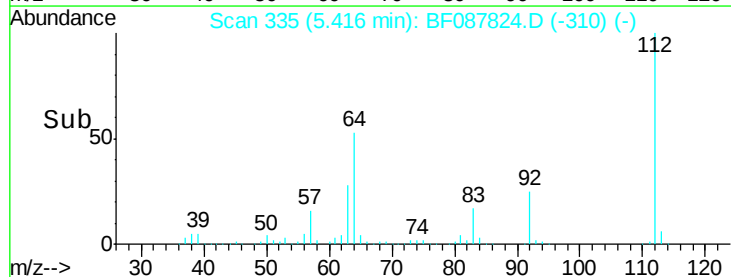
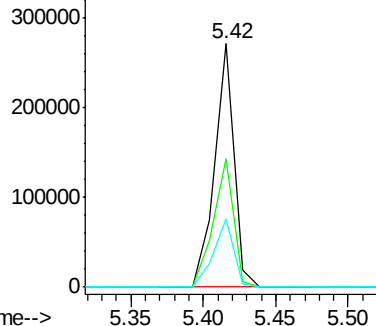
#5

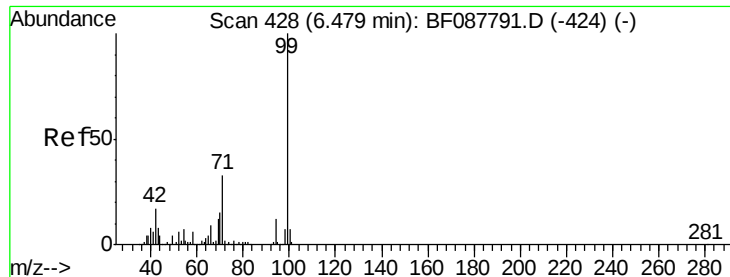
2-Fluorophenol  
Concen: 44.39 ng  
RT: 5.42 min Scan# 335  
Delta R.T. -0.01 min  
Lab File: BF087824.D  
Acq: 8 Jun 2016 22:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.9  | 42.2  | 63.2  |
| 63      | 27.8  | 21.8  | 32.8  |



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: 52.72 ng

RT: 6.46 min Scan# 426

Delta R.T. -0.02 min

Lab File: BF087824.D

Acq: 8 Jun 2016 22:16

Instrument :

BNA\_F

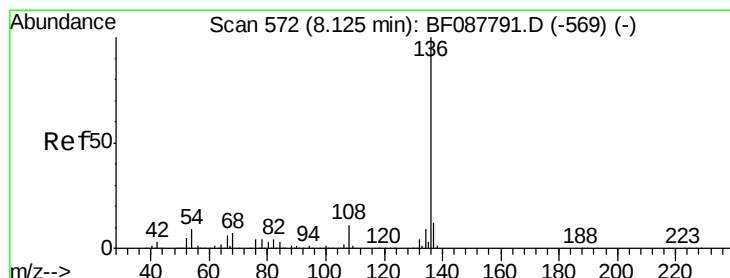
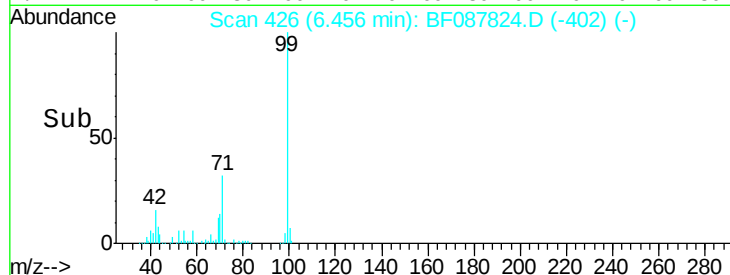
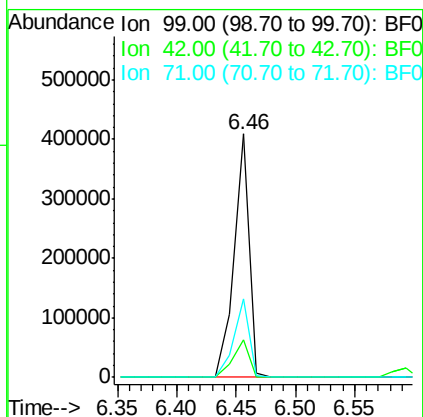
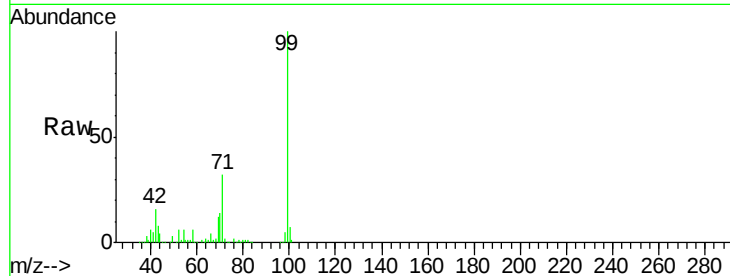
ClientSampleId :

SS-9

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 360174 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 15.6  | 12.2  | 18.2   |
| 71        | 32.5  | 23.4  | 35.0   |

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#21

Naphthalene-d8

Concen: 20.00 ng

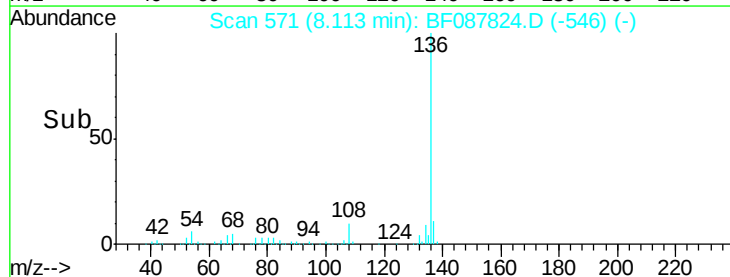
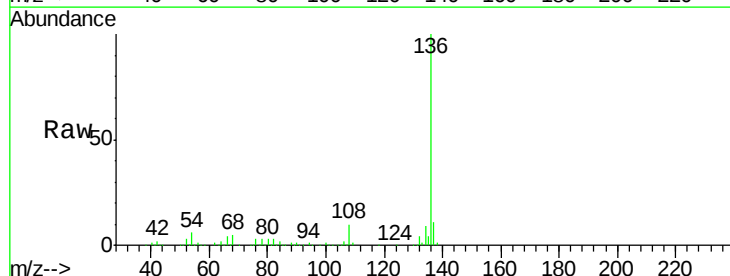
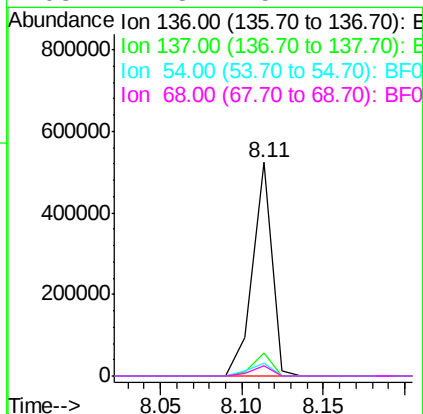
RT: 8.11 min Scan# 571

Delta R.T. -0.01 min

Lab File: BF087824.D

Acq: 8 Jun 2016 22:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 432479 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.1  | 9.1   | 13.7   |
| 54        | 6.2   | 6.6   | 10.0#  |
| 68        | 4.8   | 5.1   | 7.7#   |





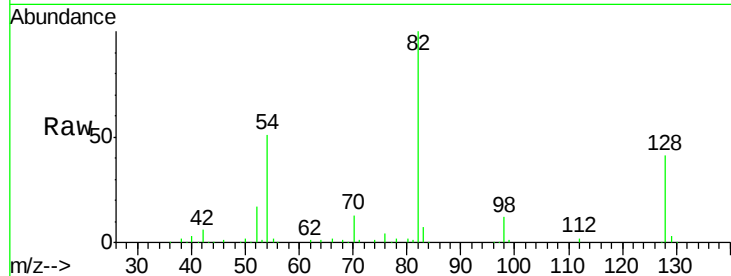
#23  
 Nitrobenzene-d5  
 Concen: 25.33 ng  
 RT: 7.38 min Scan# 507  
 Delta R.T. -0.03 min  
 Lab File: BF087824.D  
 Acq: 8 Jun 2016 22:16

Instrument :  
 BNA\_F  
 ClientSampled :  
 SS-9

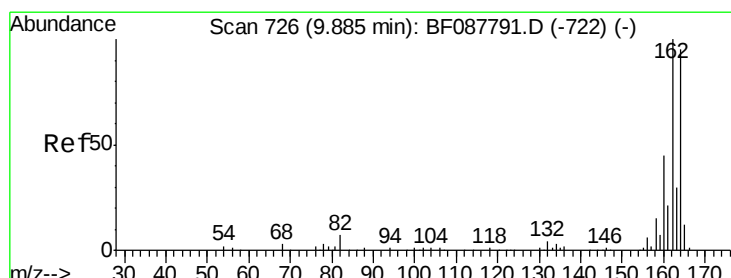
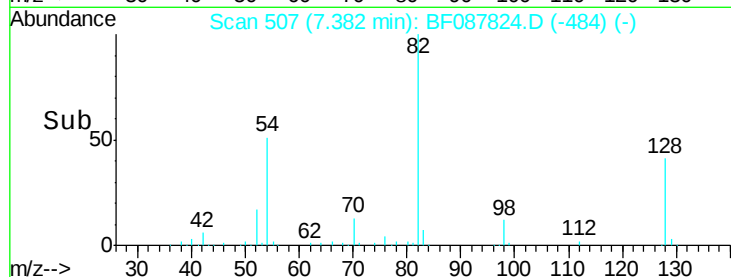
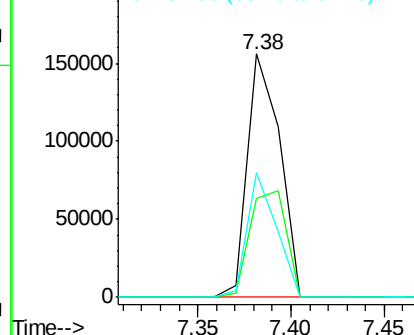
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 187583 |       |       |
| 128     | 40.9  | 35.9   | 53.9  |       |
| 54      | 51.1  | 40.9   | 61.3  |       |

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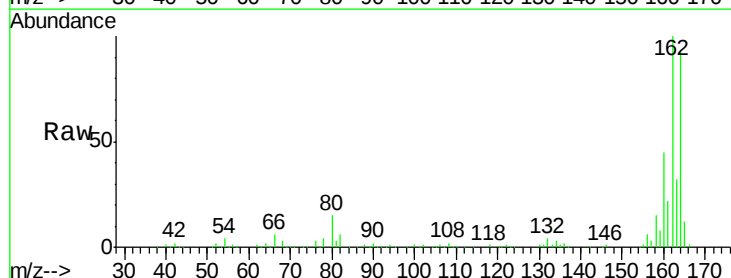


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

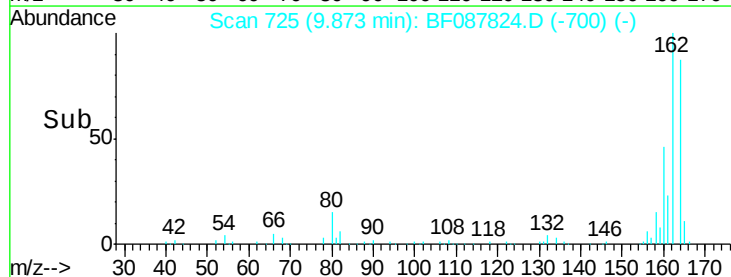
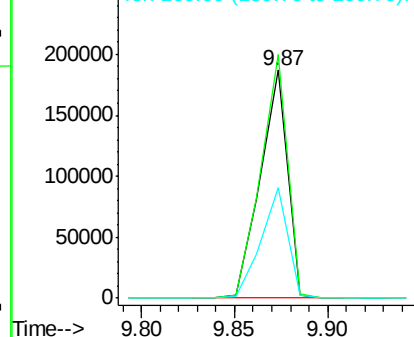


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.87 min Scan# 725  
 Delta R.T. -0.01 min  
 Lab File: BF087824.D  
 Acq: 8 Jun 2016 22:16

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 186429 |       |       |
| 162     | 107.0 | 85.4   | 128.2 |       |
| 160     | 48.6  | 39.5   | 59.3  |       |



Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E





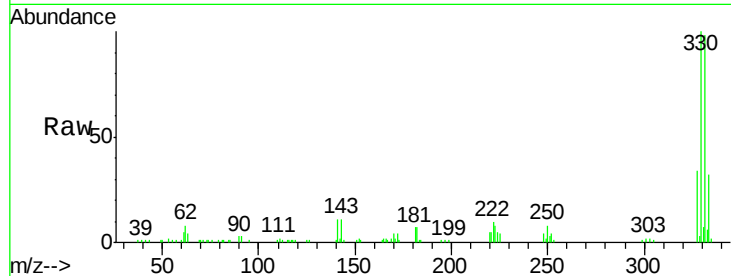
#41  
 2,4,6-Tribromophenol  
 Concen: 33.32 ng  
 RT: 10.66 min Scan# 794  
 Delta R.T. -0.01 min  
 Lab File: BF087824.D  
 Acq: 8 Jun 2016 22:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
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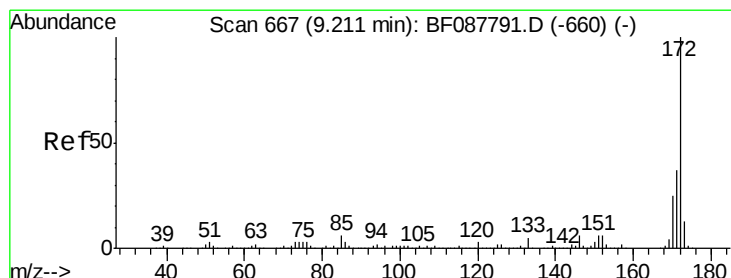
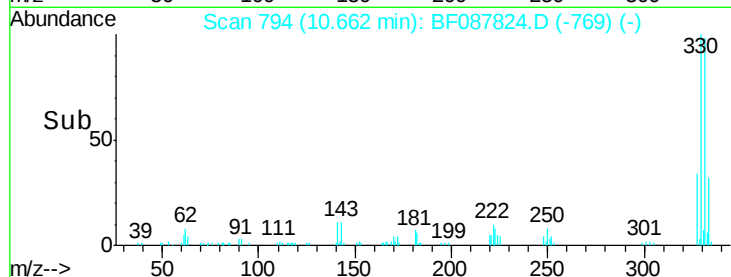
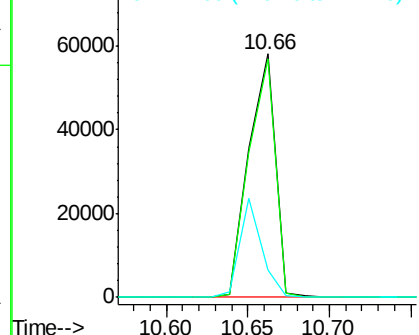
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 330     | 100   |            |       |
| 332     | 97.4  | 0.0        | 0.0#  |
| 141     | 33.4  | 0.0        | 0.0#  |

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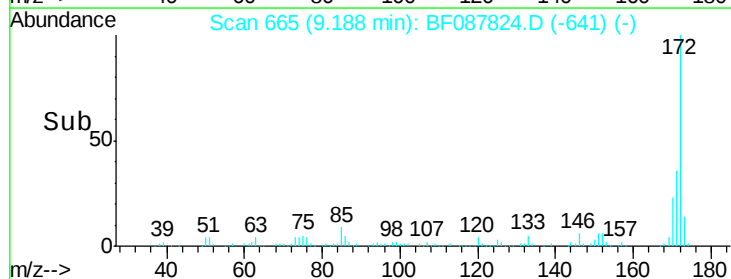
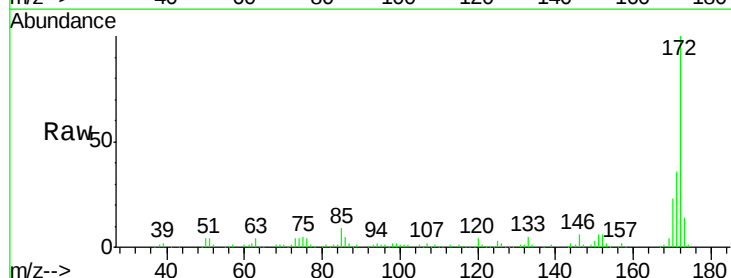
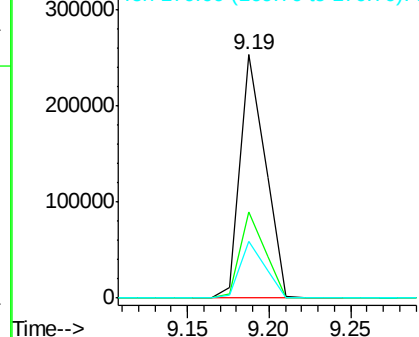
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

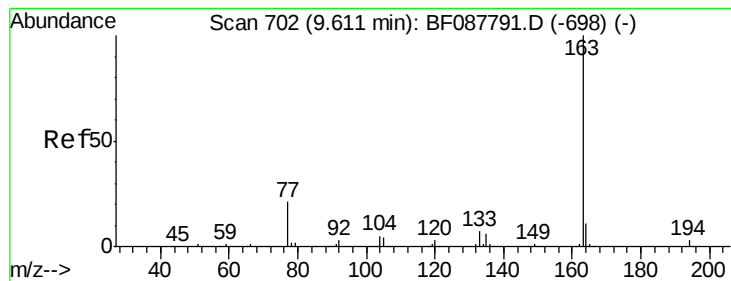


#44  
 2-Fluorobiphenyl  
 Concen: 18.33 ng  
 RT: 9.19 min Scan# 665  
 Delta R.T. -0.02 min  
 Lab File: BF087824.D  
 Acq: 8 Jun 2016 22:16

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 172     | 100   |            |       |
| 171     | 35.6  | 28.6       | 43.0  |
| 170     | 23.4  | 19.2       | 28.8  |

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: 7.94 ng

RT: 9.59 min Scan# 700

Delta R.T. -0.02 min

Lab File: BF087824.D

Acq: 8 Jun 2016 22:16

Instrument :

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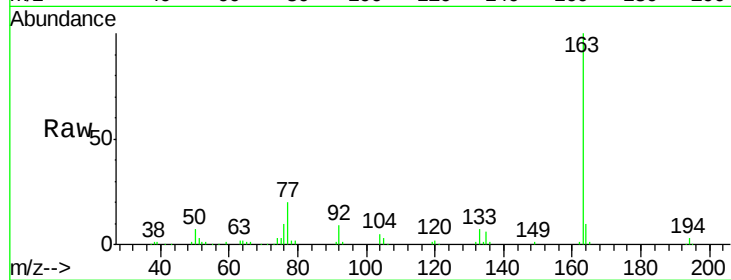
ClientSampleId :

SS-9

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 107289 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.1   | 2.8   | 4.2    |
| 164       | 10.2  | 8.3   | 12.5   |

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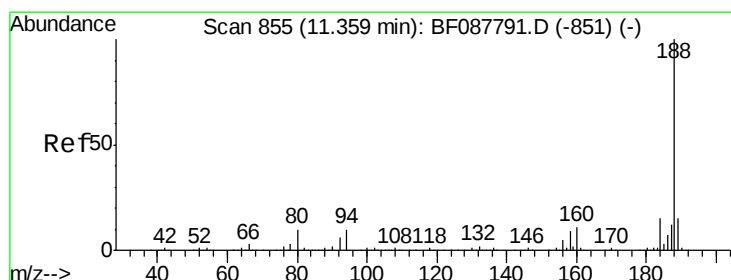
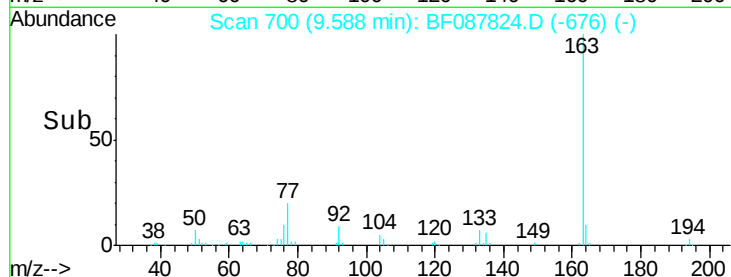
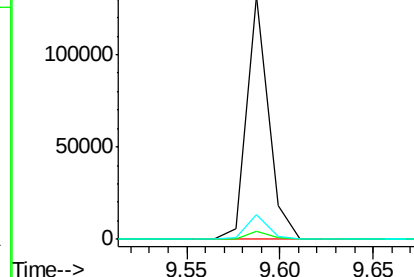
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Abundance Ion 163.00 (162.70 to 163.70): E

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

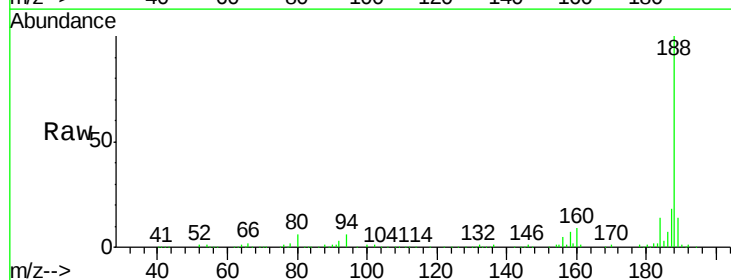
RT: 11.36 min Scan# 855

Delta R.T. -0.00 min

Lab File: BF087824.D

Acq: 8 Jun 2016 22:16

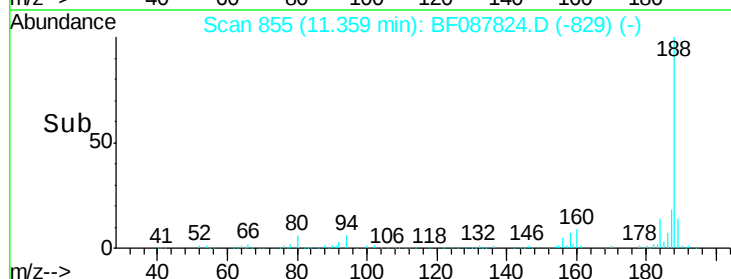
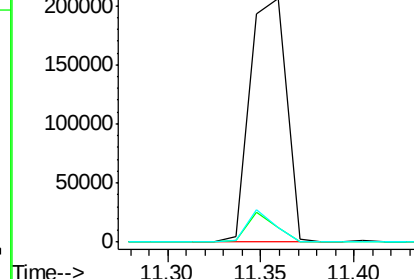
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 278545 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 6.1   | 9.0   | 13.6#  |
| 80        | 6.1   | 10.0  | 15.0#  |

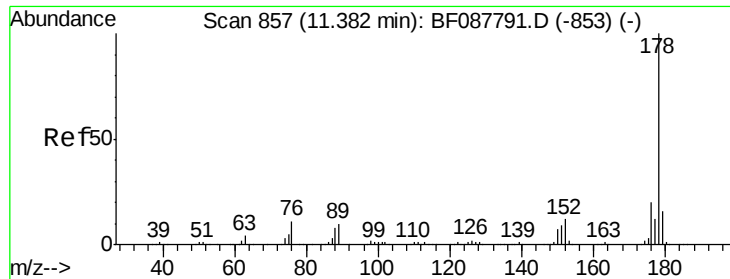


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





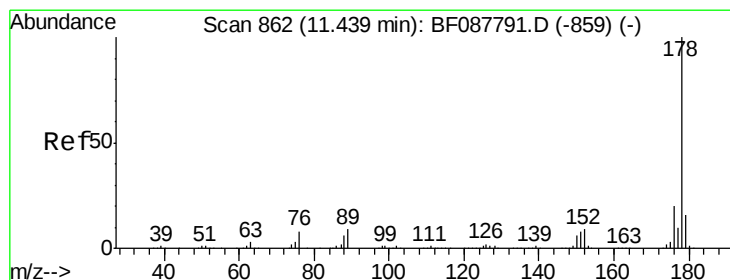
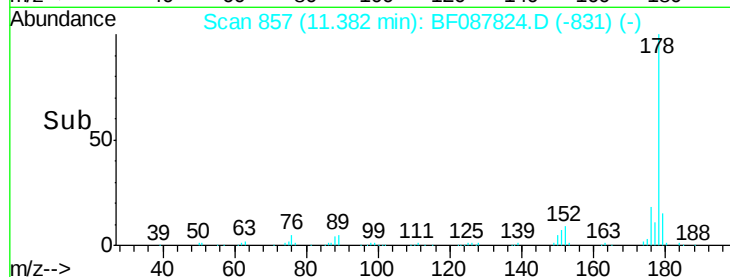
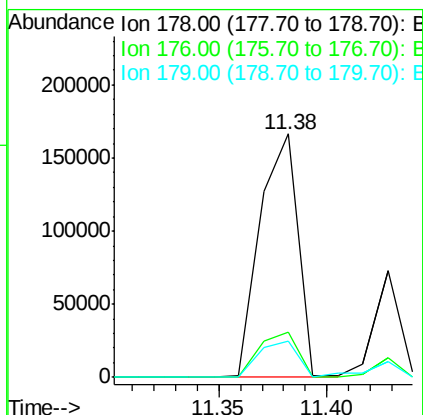
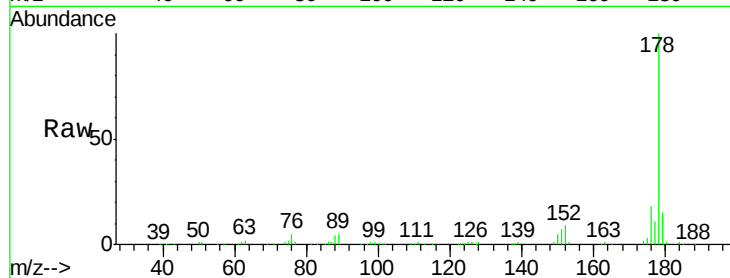
#70  
Phenanthrene  
Concen: 13.99 ng  
RT: 11.38 min Scan# 857  
Delta R.T. -0.00 min  
Lab File: BF087824.D  
Acq: 8 Jun 2016 22:16

Instrument :  
BNA\_F  
ClientSampleId :  
SS-9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.4  | 15.8  | 23.6  |
| 179     | 15.0  | 13.0  | 19.4  |

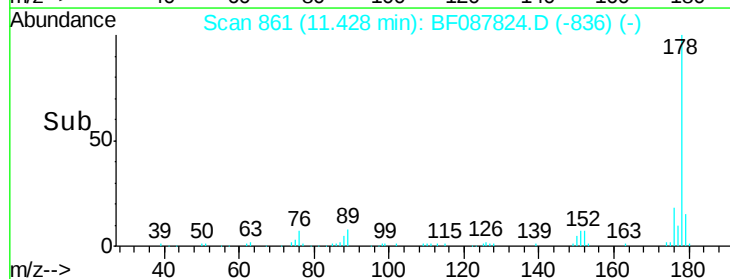
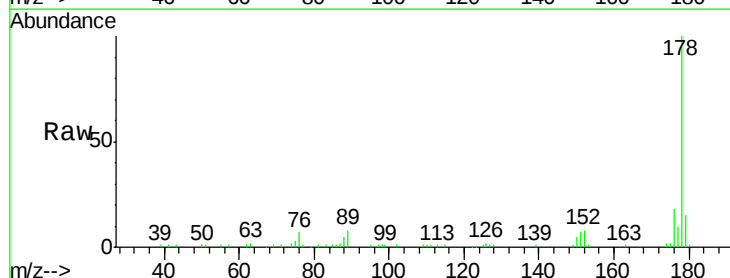
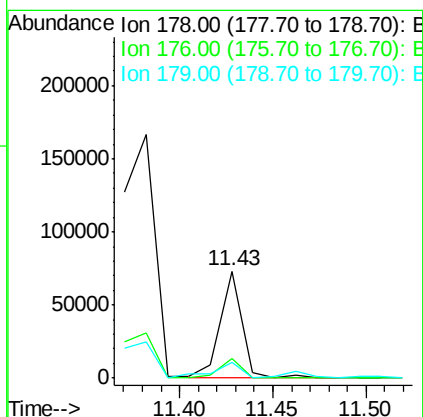
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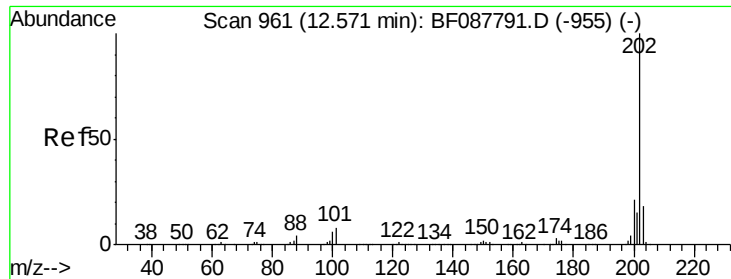
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#71  
Anthracene  
Concen: 4.11 ng  
RT: 11.43 min Scan# 861  
Delta R.T. -0.01 min  
Lab File: BF087824.D  
Acq: 8 Jun 2016 22:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.9  | 15.6  | 23.4  |
| 179     | 15.4  | 12.8  | 19.2  |





#74

Fluoranthene

Concen: 15.85 ng

RT: 12.56 min Scan# 960

Delta R.T. -0.01 min

Lab File: BF087824.D

Acq: 8 Jun 2016 22:16

Instrument :

BNA\_F

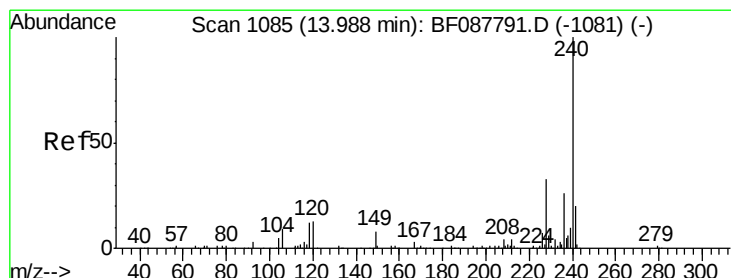
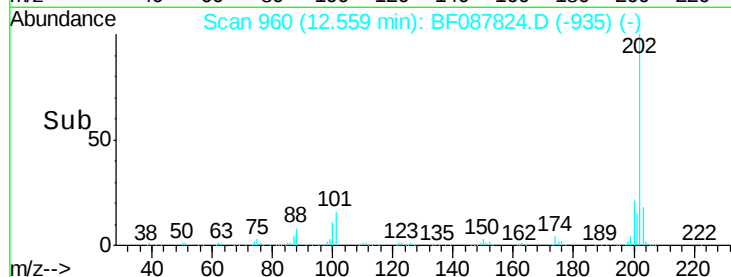
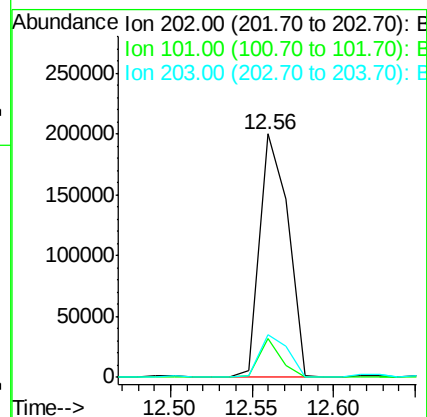
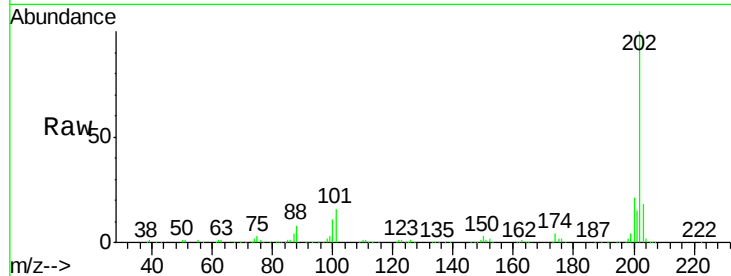
ClientSampled :

SS-9

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 16.1  | 0.0        | 33.1  |
| 203     | 17.8  | 0.0        | 38.1  |

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#75

Chrysene-d12

Concen: 20.00 ng

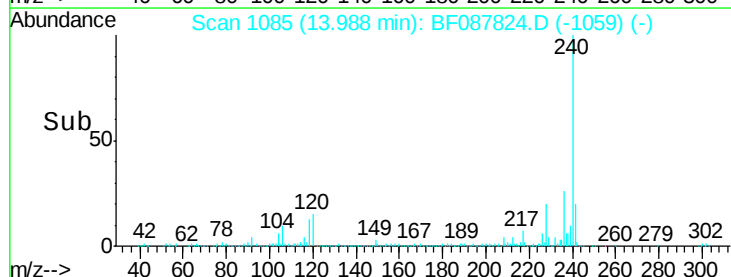
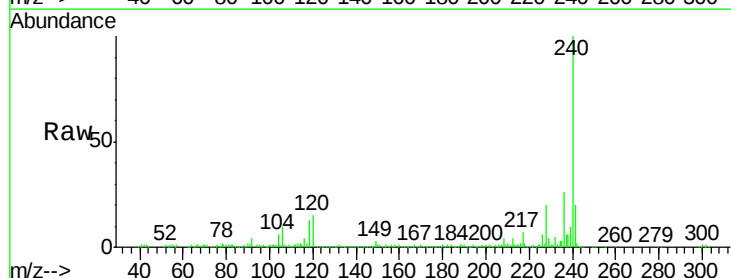
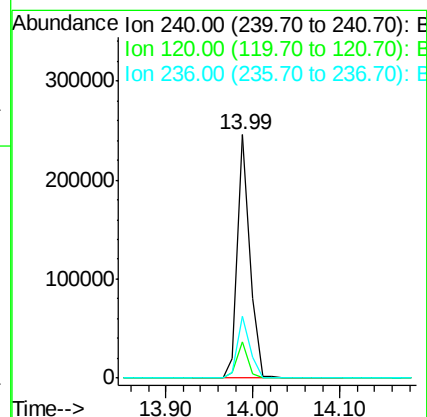
RT: 13.99 min Scan# 1085

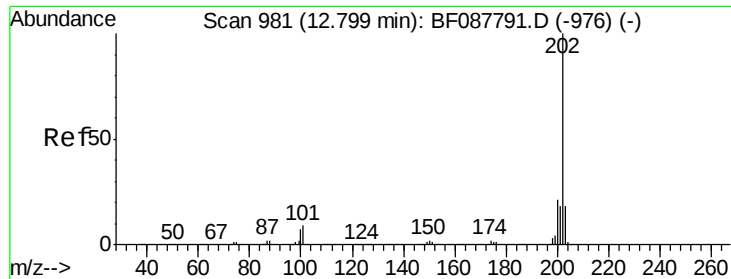
Delta R.T. -0.00 min

Lab File: BF087824.D

Acq: 8 Jun 2016 22:16

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 14.9  | 6.8        | 10.2# |
| 236     | 25.6  | 20.2       | 30.2  |





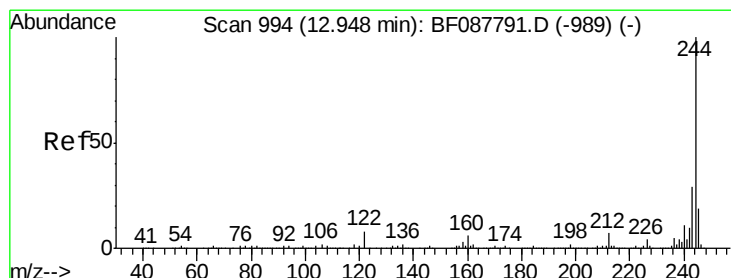
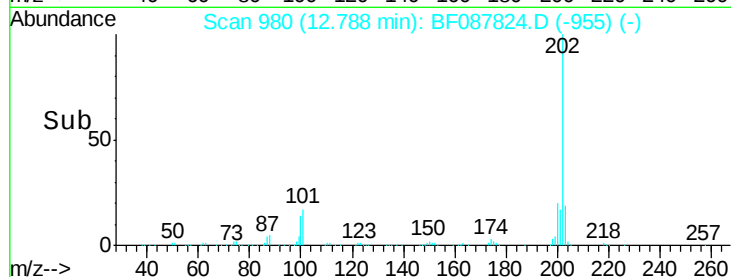
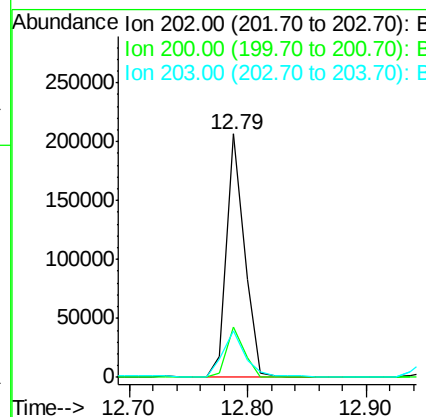
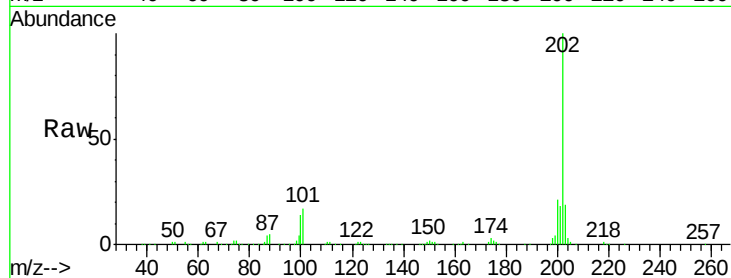
#77  
Pvrene  
Concen: 11.84 ng  
RT: 12.79 min Scan# 980  
Delta R.T. -0.01 min  
Lab File: BF087824.D  
Acq: 8 Jun 2016 22:16

Instrument :  
BNA\_F  
ClientSampleId :  
SS-9

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 20.5  | 17.4       | 26.2  |
| 203     | 19.1  | 14.5       | 21.7  |

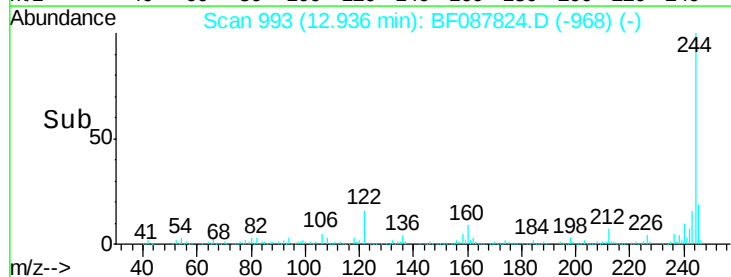
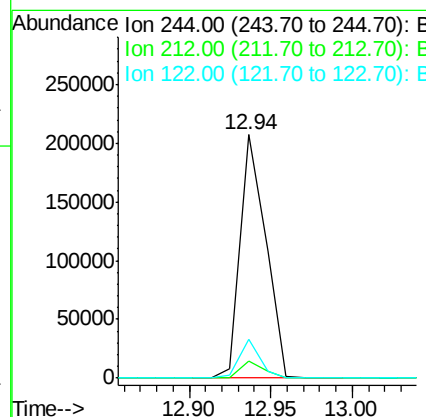
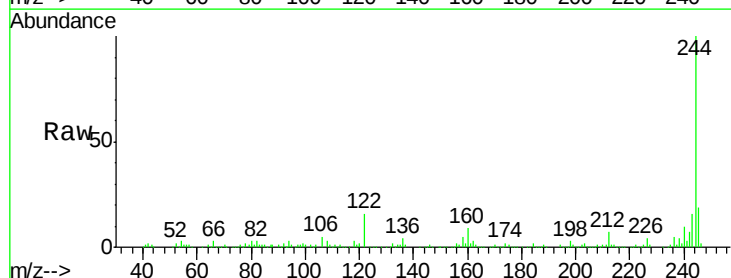
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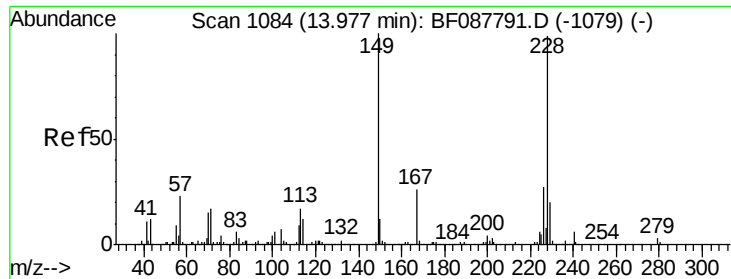
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6/9/2016 8:04:47 PM



#78  
Terphenyl-d14  
Concen: 20.92 ng  
RT: 12.94 min Scan# 993  
Delta R.T. -0.01 min  
Lab File: BF087824.D  
Acq: 8 Jun 2016 22:16

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 7.1   | 6.0        | 9.0   |
| 122     | 16.1  | 11.2       | 16.8  |





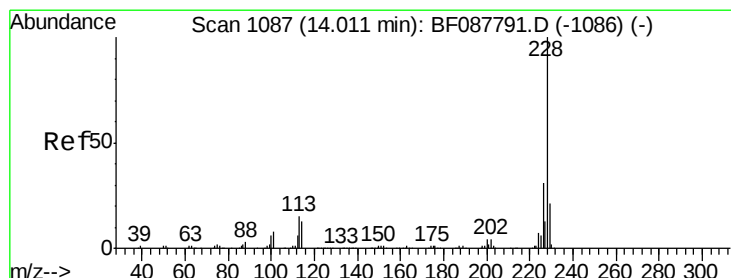
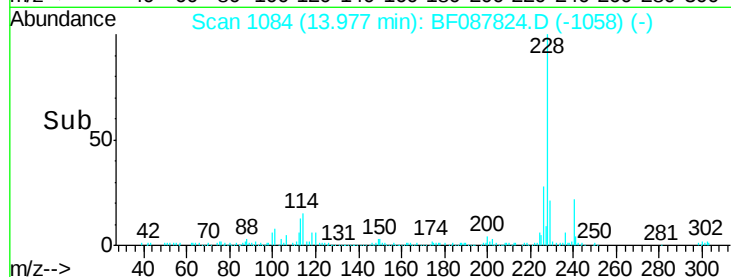
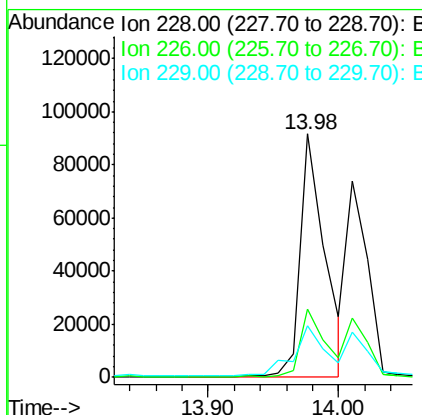
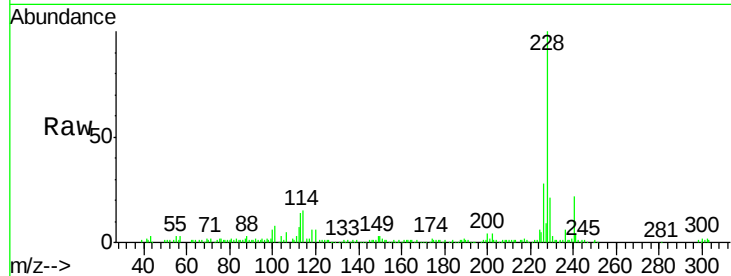
#80  
Benzo(a)anthracene  
Concen: 8.78 ng  
RT: 13.98 min Scan# 1084  
Delta R.T. -0.00 min  
Lab File: BF087824.D  
Acq: 8 Jun 2016 22:16

Instrument :  
BNA\_F  
ClientSampleId :  
SS-9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.1  | 22.3  | 33.5  |
| 229     | 21.0  | 16.0  | 24.0  |

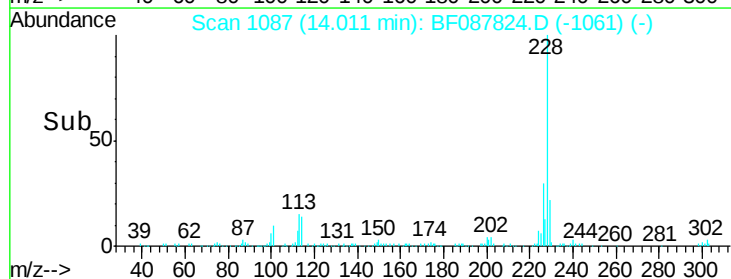
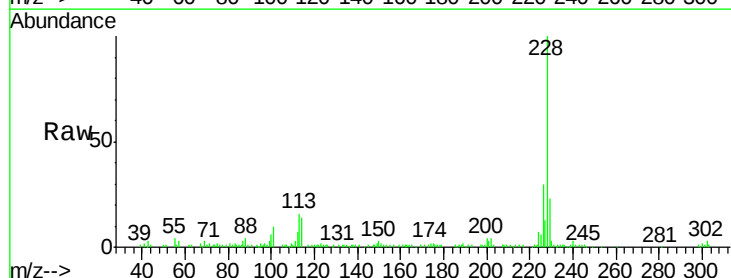
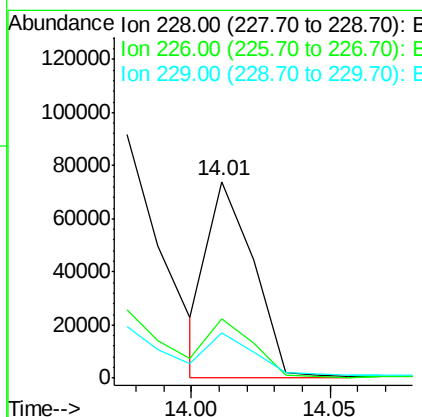
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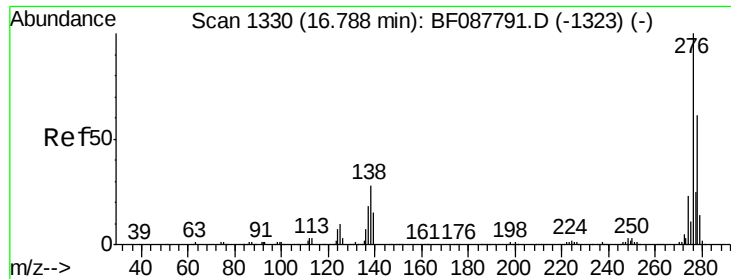
sohil  
6/9/2016 8:04:47 PM



#82  
Chrysene  
Concen: 6.44 ng m  
RT: 14.01 min Scan# 1087  
Delta R.T. -0.00 min  
Lab File: BF087824.D  
Acq: 8 Jun 2016 22:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.0  | 25.4  | 38.2  |
| 229     | 22.8  | 16.3  | 24.5  |





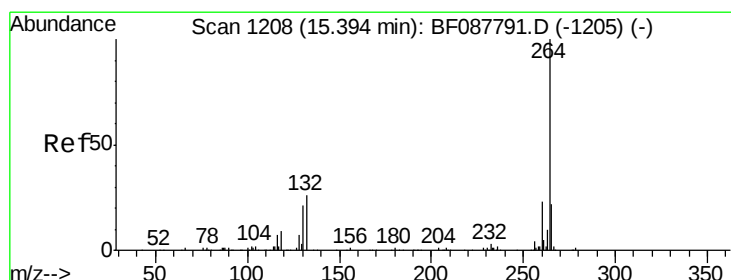
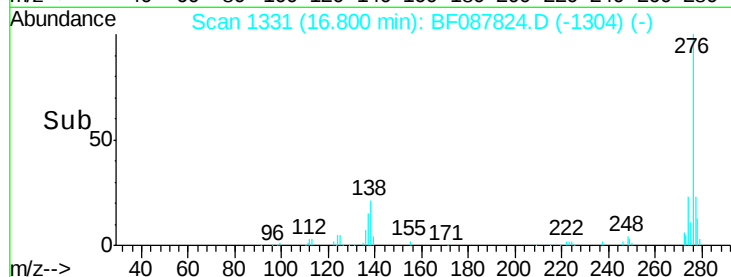
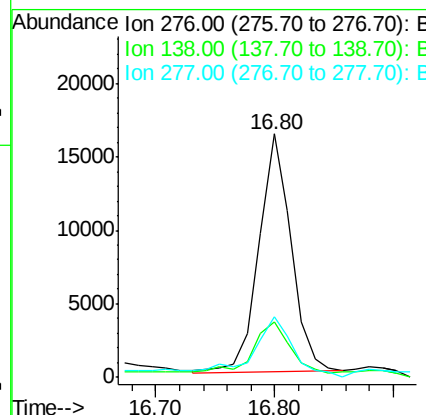
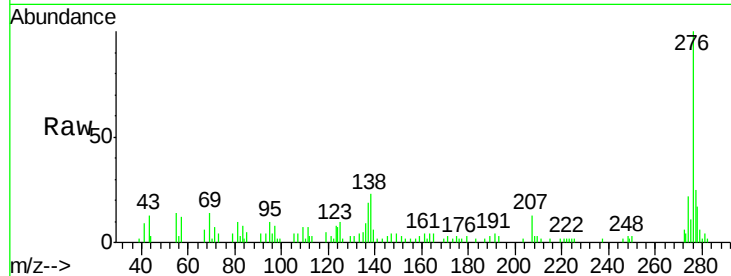
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.56 ng  
RT: 16.80 min Scan# 1331  
Delta R.T. 0.01 min  
Lab File: BF087824.D  
Acq: 8 Jun 2016 22:16

Instrument :  
BNA\_F  
ClientSampleId :  
SS-9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.2  | 0.0   | 0.0#  |
| 277     | 32.0  | 0.0   | 0.0#  |

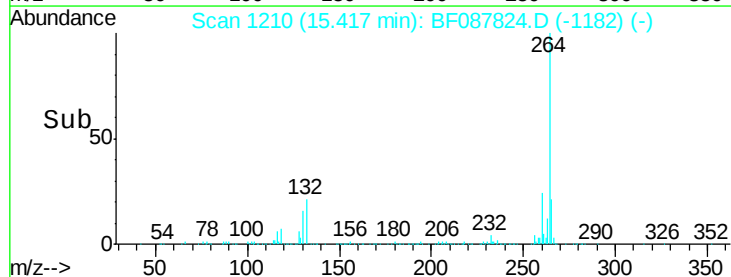
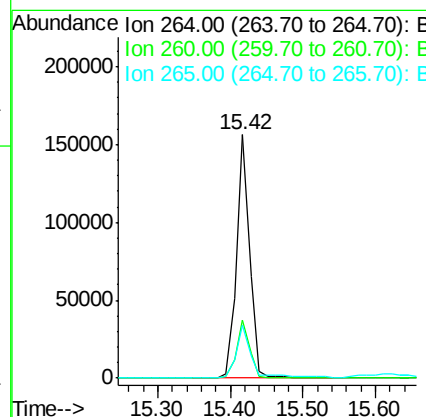
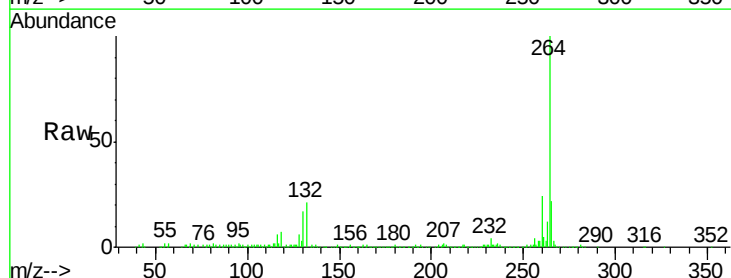
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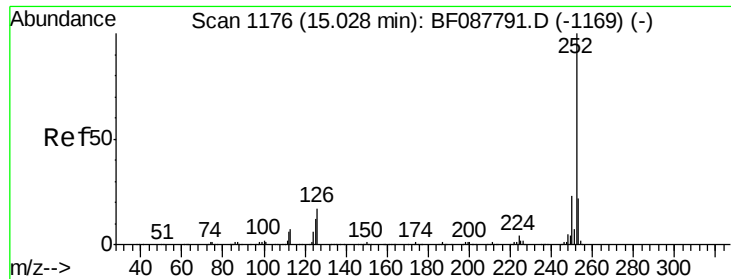
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.42 min Scan# 1210  
Delta R.T. 0.02 min  
Lab File: BF087824.D  
Acq: 8 Jun 2016 22:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 19.2  | 28.8  |
| 265     | 21.6  | 16.9  | 25.3  |





#87

Benzo(b)fluoranthene

Concen: 6.00 ng m

RT: 15.01 min Scan# 1174

Delta R.T. 0.01 min

Lab File: BF087824.D

Acq: 8 Jun 2016 22:16

Instrument :

BNA\_F

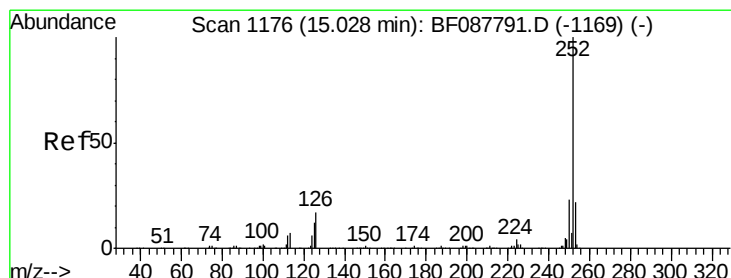
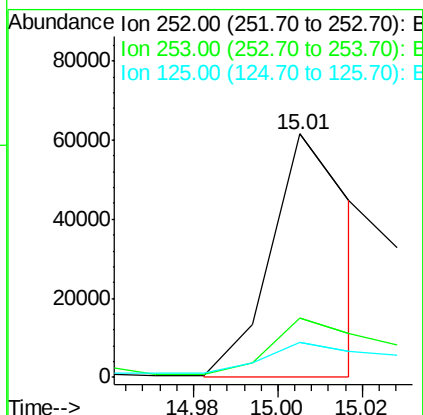
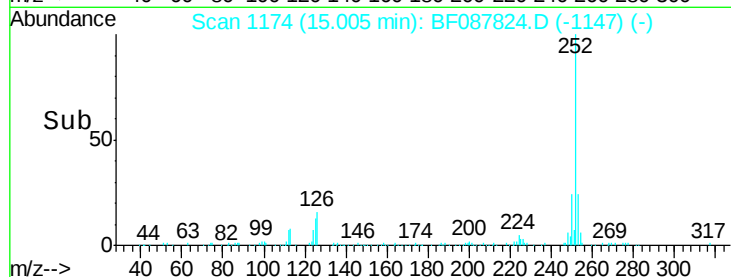
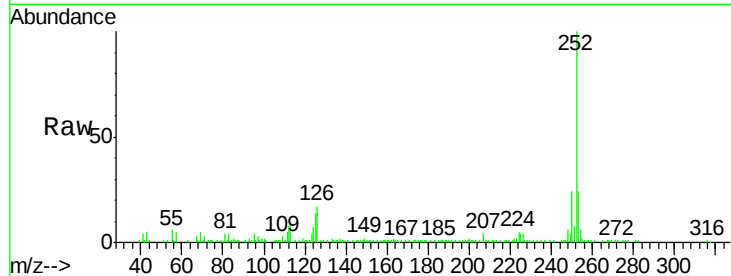
ClientSampleId :

SS-9

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 82152 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 17.4  | 26.2  |
| 125       | 14.5  | 7.1   | 10.7# |

Manual Integrations  
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#88

Benzo(k)fluoranthene

Concen: 3.84 ng m

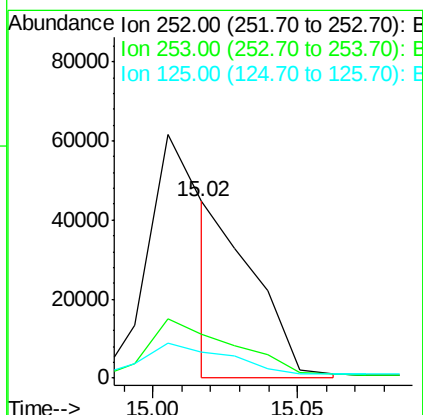
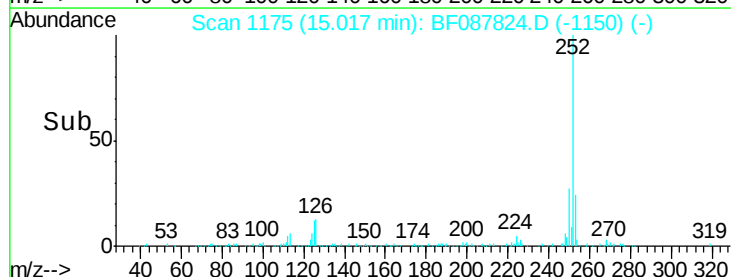
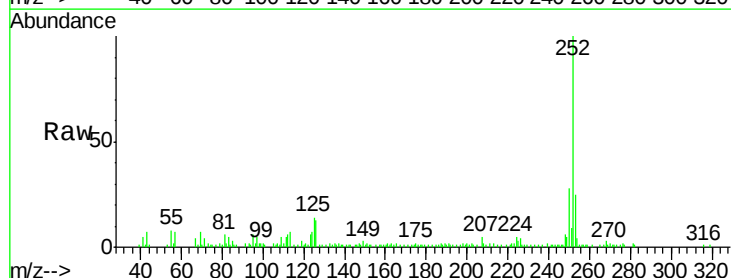
RT: 15.02 min Scan# 1175

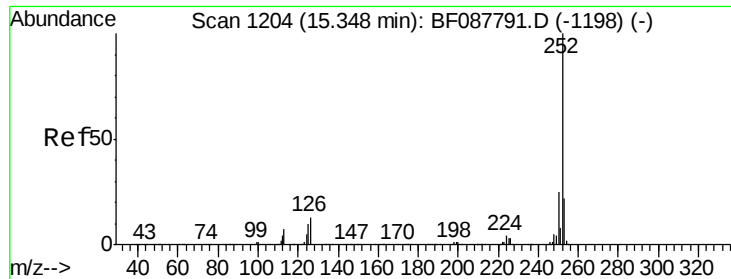
Delta R.T. -0.01 min

Lab File: BF087824.D

Acq: 8 Jun 2016 22:16

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 39680 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.8  | 18.0  | 27.0  |
| 125       | 14.5  | 11.2  | 16.8  |





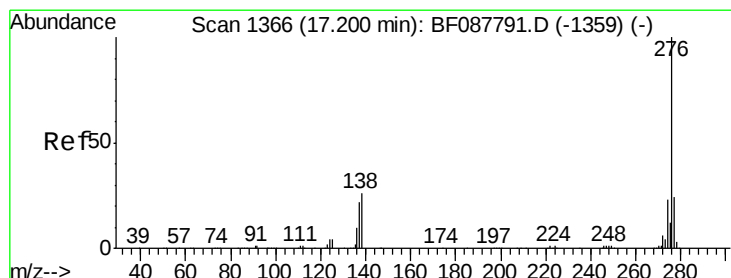
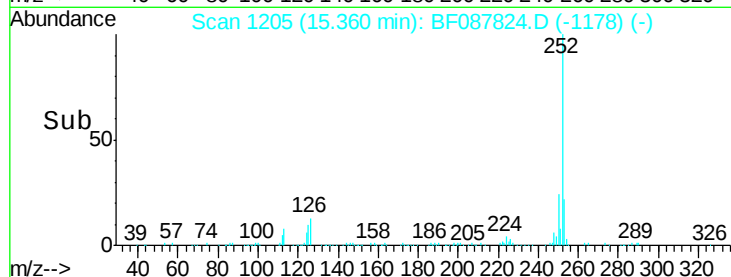
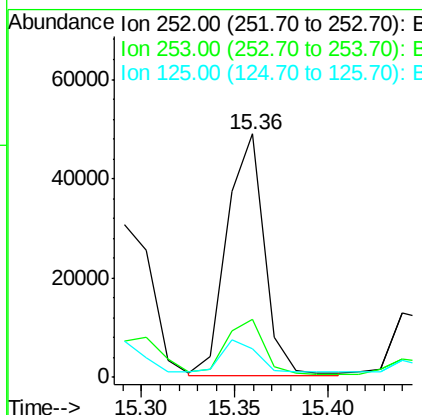
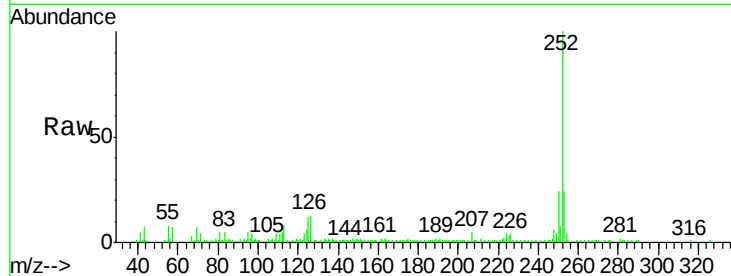
#89  
Benzo(a)pyrene  
Concen: 6.10 ng  
RT: 15.36 min Scan# 1205  
Delta R.T. 0.01 min  
Lab File: BF087824.D  
Acq: 8 Jun 2016 22:16

Instrument :  
BNA\_F  
ClientSampleId :  
SS-9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 17.9  | 26.9  |
| 125     | 11.6  | 12.5  | 18.7# |

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#91  
Benzo(g,h,i)perylene  
Concen: 2.79 ng  
RT: 17.21 min Scan# 1367  
Delta R.T. 0.01 min  
Lab File: BF087824.D  
Acq: 8 Jun 2016 22:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.5  | 18.9  | 28.3  |
| 138     | 27.7  | 21.4  | 32.2  |

