

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060816\  
 Data File : BF087811.D  
 Acq On : 8 Jun 2016 15:52  
 Operator : UM/SJ  
 Sample : H3378-04  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-16

Manual Integrations  
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 6/9/2016 7:59:33 PM

Quant Time: Jun 09 07:19:53 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  | 99781    | 20.00 | ng    | -0.02      |
| 21) Naphthalene-d8             | 8.11  | 136  | 439857   | 20.00 | ng    | -0.01      |
| 38) Acenaphthene-d10           | 9.87  | 164  | 188807   | 20.00 | ng    | -0.01      |
| 63) Phenanthrene-d10           | 11.35 | 188  | 306498   | 20.00 | ng    | -0.01      |
| 75) Chrysene-d12               | 13.99 | 240  | 210257   | 20.00 | ng    | 0.00       |
| 86) Perylene-d12               | 15.42 | 264  | 210337   | 20.00 | ng    | 0.02       |
| System Monitoring Compounds    |       |      |          |       |       |            |
| 5) 2-Fluorophenol              | 5.42  | 112  | 545775   | 93.51 | ng    | -0.01      |
| 7) Phenol-d6                   | 6.46  | 99   | 689460   | 97.47 | ng    | -0.02      |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 505092   | 67.05 | ng    | -0.02      |
| 41) 2,4,6-Tribromophenol       | 10.66 | 330  | 189799   | 95.20 | ng    | -0.01      |
| 44) 2-Fluorobiphenyl           | 9.20  | 172  | 920168   | 75.97 | ng    | -0.01      |
| 78) Terphenyl-d14              | 12.95 | 244  | 625019   | 67.64 | ng    | 0.00       |
| Target Compounds               |       |      |          |       |       |            |
| 49) Dimethylphthalate          | 9.59  | 163  | 90470    | 6.61  | ng    | Qvalue 100 |
| 70) Phenanthrene               | 11.37 | 178  | 51290    | 3.19  | ng    | 99         |
| 74) Fluoranthene               | 12.56 | 202  | 91835    | 5.41  | ng    | 98         |
| 77) Pyrene                     | 12.79 | 202  | 84620    | 5.42  | ng    | 98         |
| 80) Benzo(a)anthracene         | 13.98 | 228  | 49884    | 4.16  | ng    | 95         |
| 82) Chrysene                   | 14.01 | 228  | 37548m   | 3.33  | ng    |            |
| 83) Bis(2-ethylhexyl)phthalate | 13.99 | 149  | 59527    | 7.09  | ng    | 99         |
| 85) Indeno(1,2,3-cd)pyrene     | 16.80 | 276  | 30350    | 2.90  | ng    | # 100      |
| 87) Benzo(b)fluoranthene       | 15.01 | 252  | 56910m   | 3.88  | ng    |            |
| 88) Benzo(k)fluoranthene       | 15.02 | 252  | 24525m   | 2.22  | ng    |            |
| 89) Benzo(a)pyrene             | 15.36 | 252  | 43800    | 3.69  | ng    | 97         |
| 91) Benzo(a,h,i)perylene       | 17.21 | 276  | 27106    | 2.39  | ng    | 98         |

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

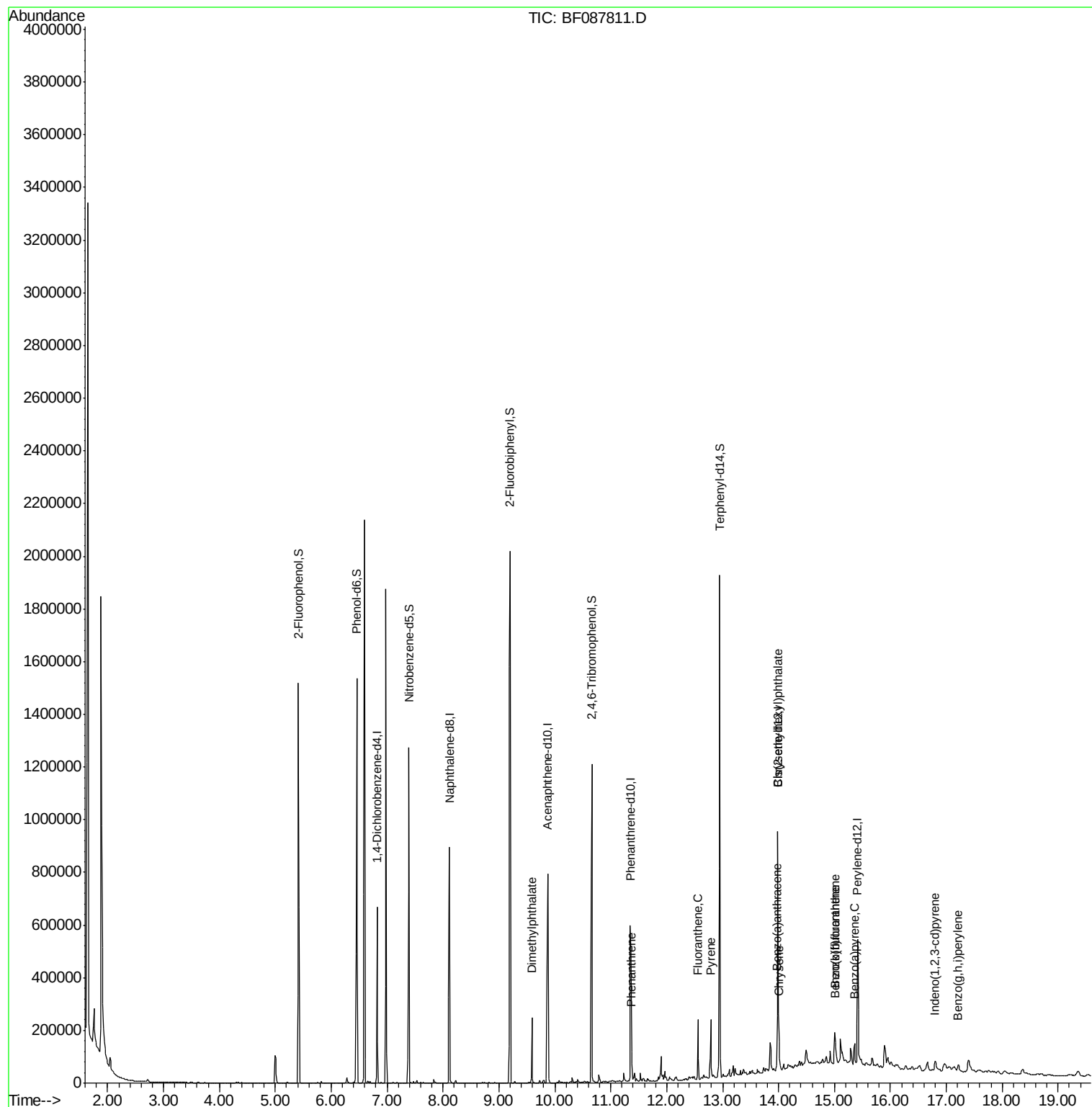
Data Path : Z:\HPCHEM1\BNA F\DATA\BF060816\  
Data File : BF087811.D  
Acq On : 8 Jun 2016 15:52  
Operator : UM/SJ  
Sample : H3378-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

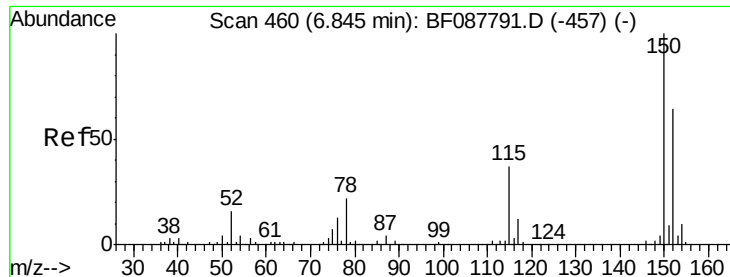
Instrument :  
BNA\_F  
ClientSampleId :  
SS-16

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Quant Time: Jun 09 07:19:53 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

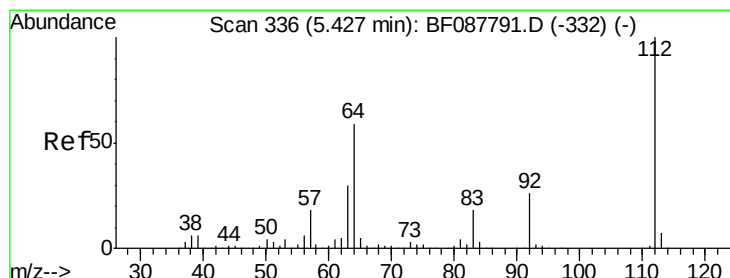
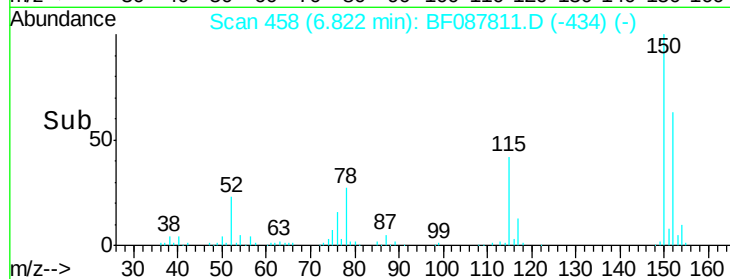
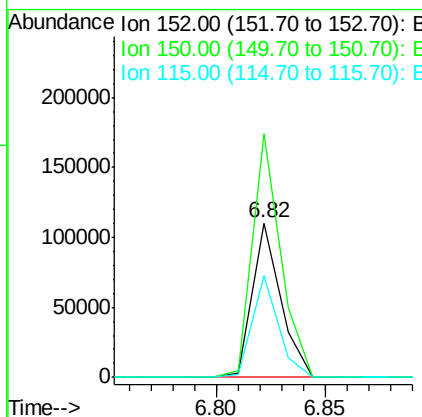
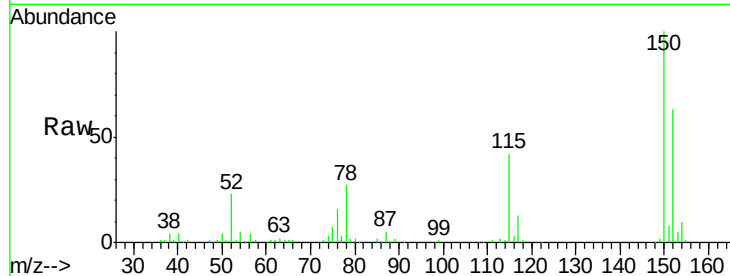
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.82 min Scan# 458  
Delta R.T. -0.02 min  
Lab File: BF087811.D  
Acq: 8 Jun 2016 15:52

Instrument :  
BNA\_F  
ClientSampled :  
SS-16

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.0 | 123.8 | 185.6 |
| 115     | 65.6  | 39.6  | 59.4  |

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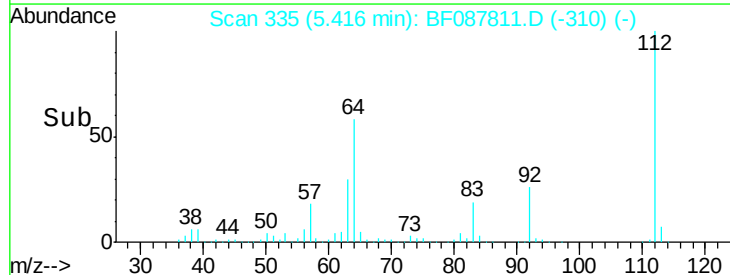
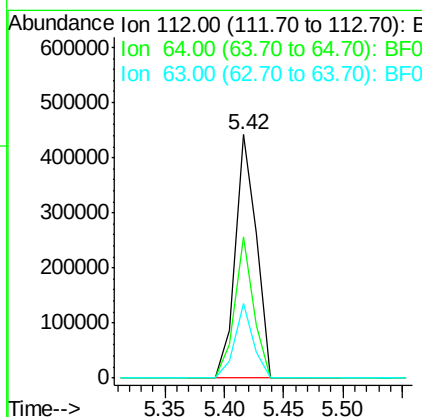
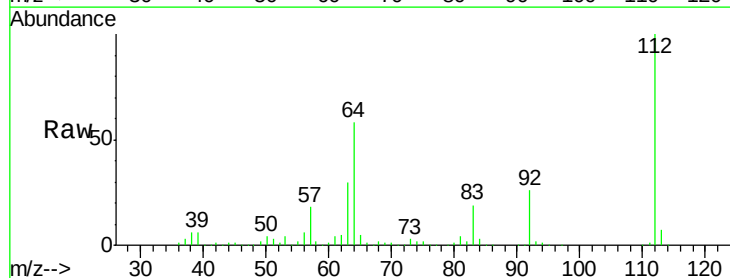
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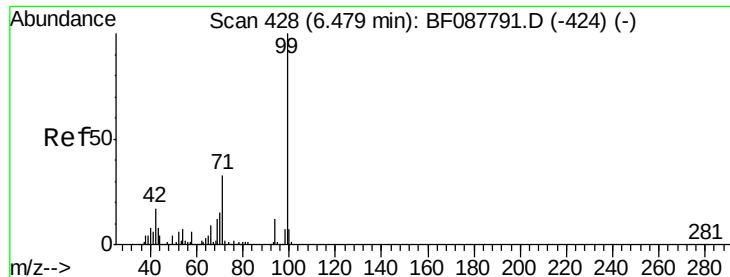


#5

2-Fluorophenol  
Concen: 93.51 ng  
RT: 5.42 min Scan# 335  
Delta R.T. -0.01 min  
Lab File: BF087811.D  
Acq: 8 Jun 2016 15:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.2  | 42.2  | 63.2  |
| 63      | 30.5  | 21.8  | 32.8  |





#7

Phenol-d6

Concen: 97.47 ng

RT: 6.46 min Scan# 426

Delta R.T. -0.02 min

Lab File: BF087811.D

Acq: 8 Jun 2016 15:52

Instrument :

BNA\_F

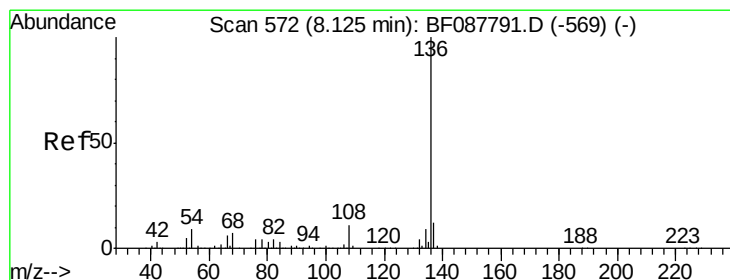
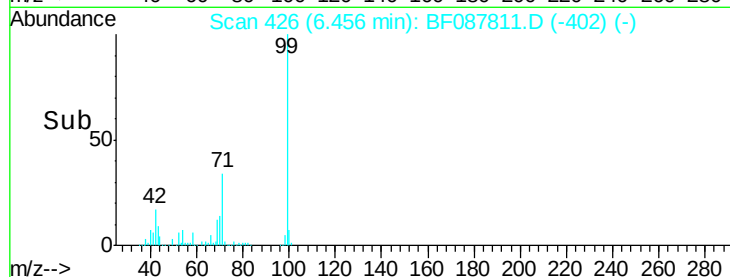
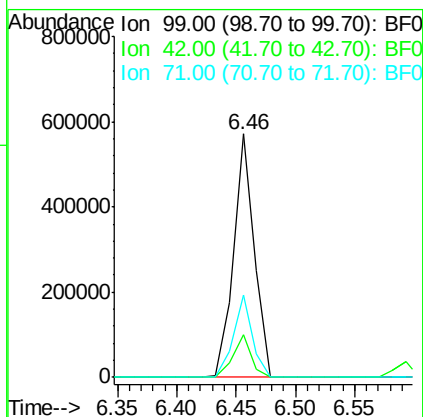
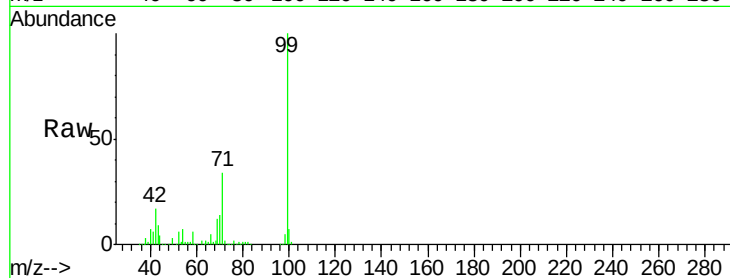
ClientSampleId :

SS-16

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 689460 |       |       |
| 42      | 17.3 | 12.2  | 18.2   |       |       |
| 71      | 33.7 | 23.4  | 35.0   |       |       |

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#21

Naphthalene-d8

Concen: 20.00 ng

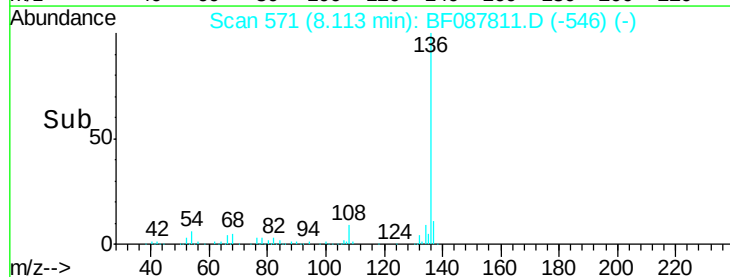
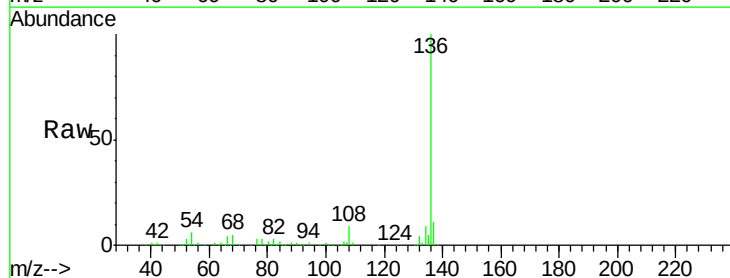
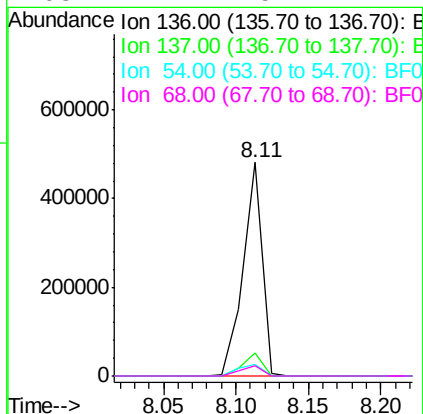
RT: 8.11 min Scan# 571

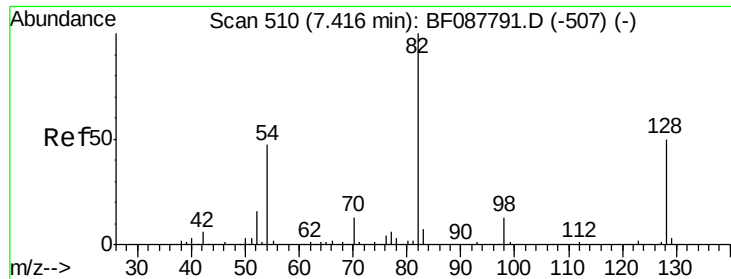
Delta R.T. -0.01 min

Lab File: BF087811.D

Acq: 8 Jun 2016 15:52

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 439857 |       |       |
| 137     | 10.8 | 9.1   | 13.7   |       |       |
| 54      | 5.6  | 6.6   | 10.0#  |       |       |
| 68      | 4.7  | 5.1   | 7.7#   |       |       |





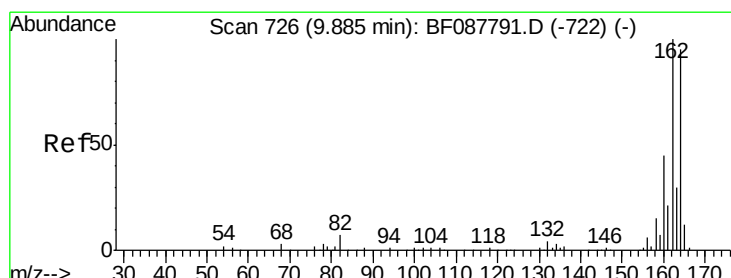
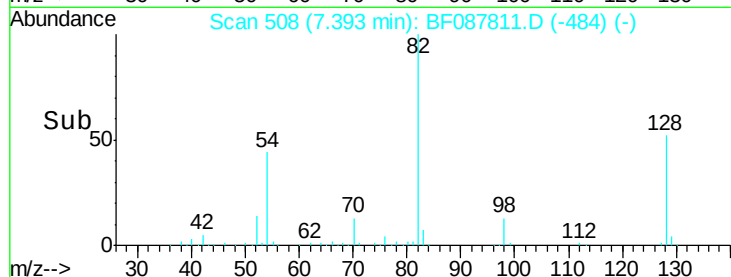
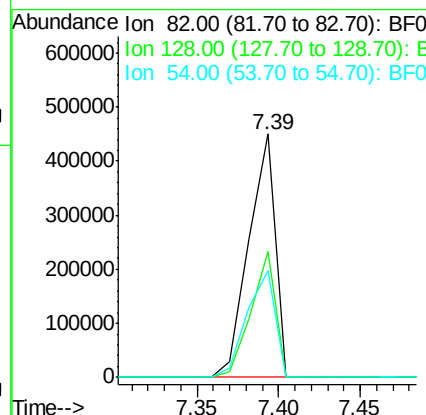
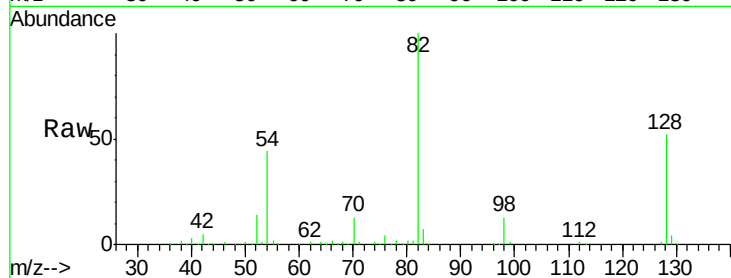
#23  
 Nitrobenzene-d5  
 Concen: 67.05 ng  
 RT: 7.39 min Scan# 508  
 Delta R.T. -0.02 min  
 Lab File: BF087811.D  
 Acq: 8 Jun 2016 15:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 505092 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 51.8  | 35.9  | 53.9   |
| 54        | 43.9  | 40.9  | 61.3   |

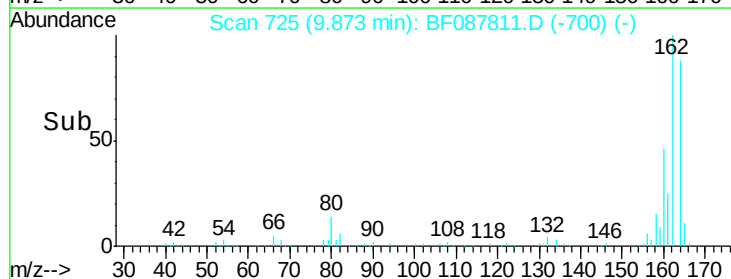
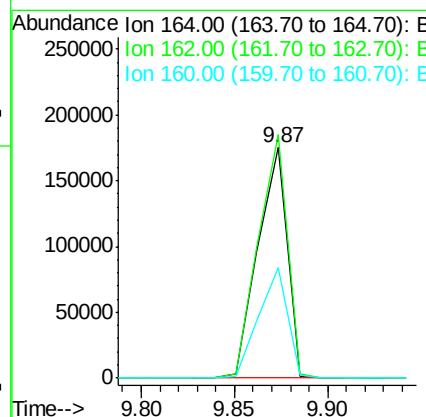
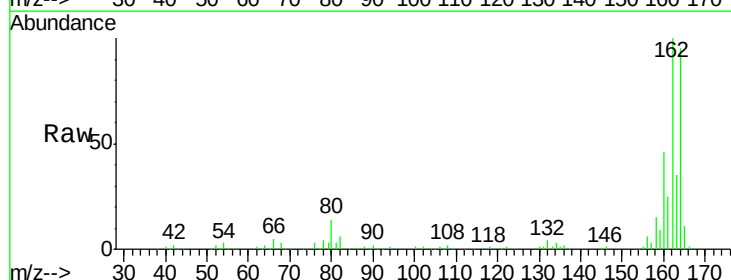
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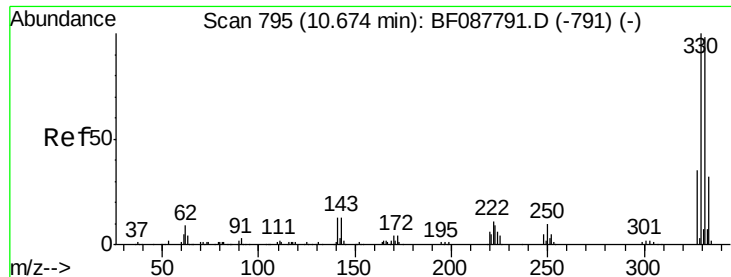
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.87 min Scan# 725  
 Delta R.T. -0.01 min  
 Lab File: BF087811.D  
 Acq: 8 Jun 2016 15:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 188807 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 105.7 | 85.4  | 128.2  |
| 160       | 48.1  | 39.5  | 59.3   |





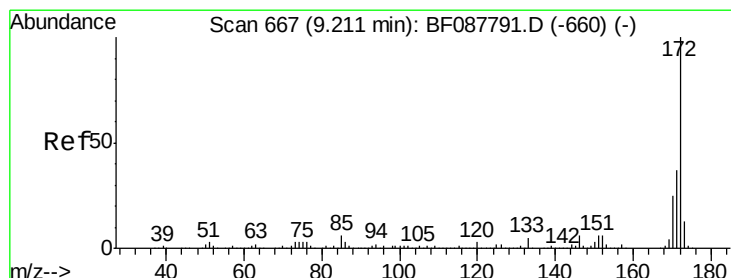
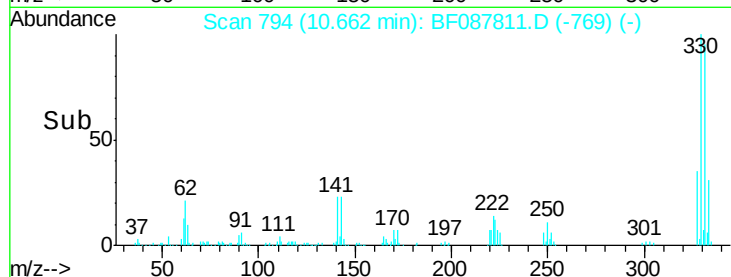
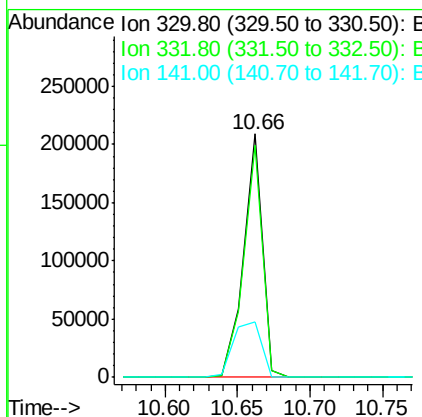
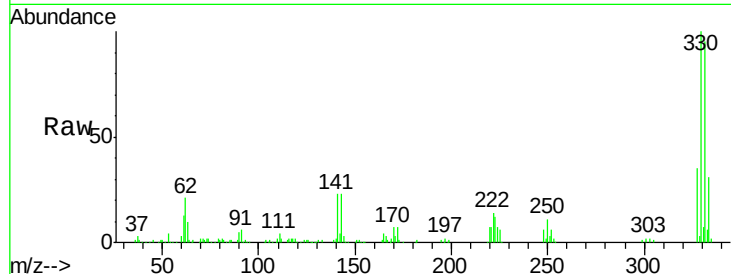
#41  
 2,4,6-Tribromophenol  
 Concen: 95.20 ng  
 RT: 10.66 min Scan# 794  
 Delta R.T. -0.01 min  
 Lab File: BF087811.D  
 Acq: 8 Jun 2016 15:52

Instrument :  
 BNA\_F  
 ClientSampled :  
 SS-16

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 330     | 100   |            |       |
| 332     | 95.3  | 0.0        | 0.0#  |
| 141     | 34.1  | 0.0        | 0.0#  |

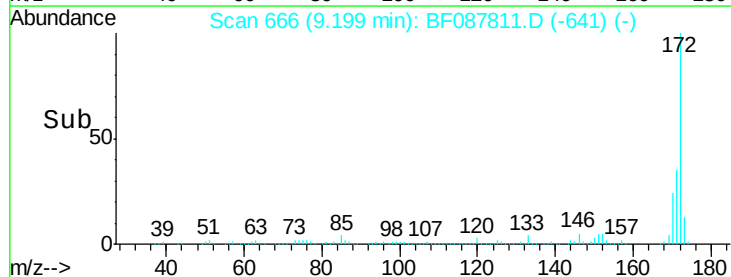
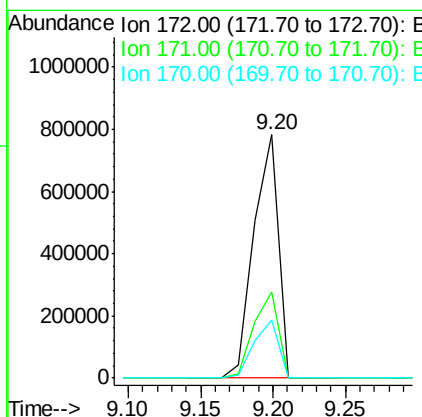
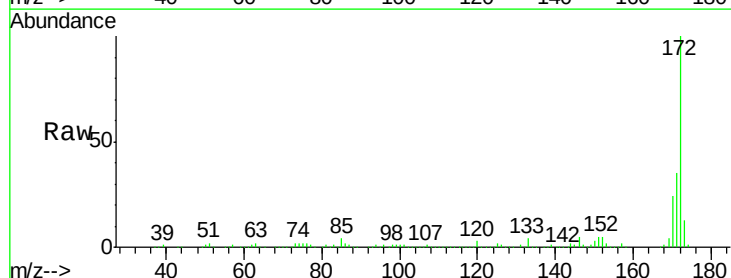
Manual Integrations  
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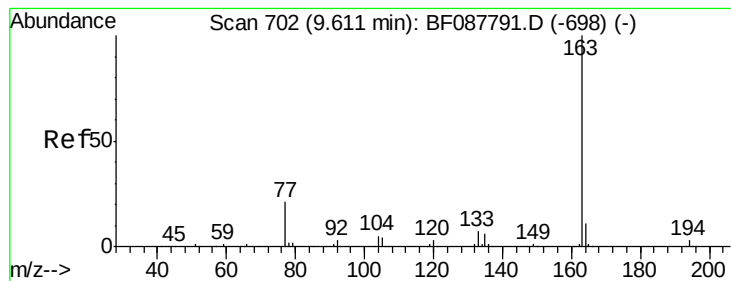
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 6/9/2016 7:59:33 PM



#44  
 2-Fluorobiphenyl  
 Concen: 75.97 ng  
 RT: 9.20 min Scan# 666  
 Delta R.T. -0.01 min  
 Lab File: BF087811.D  
 Acq: 8 Jun 2016 15:52

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 172     | 100   |            |       |
| 171     | 35.3  | 28.6       | 43.0  |
| 170     | 23.6  | 19.2       | 28.8  |





#49

Dimethylphthalate

Concen: 6.61 ng

RT: 9.59 min Scan# 700

Delta R.T. -0.02 min

Lab File: BF087811.D

Acq: 8 Jun 2016 15:52

Instrument :

BNA\_F

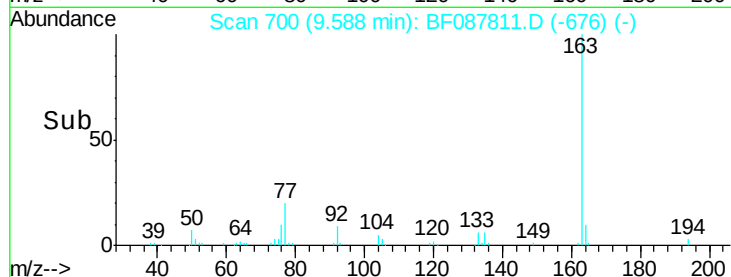
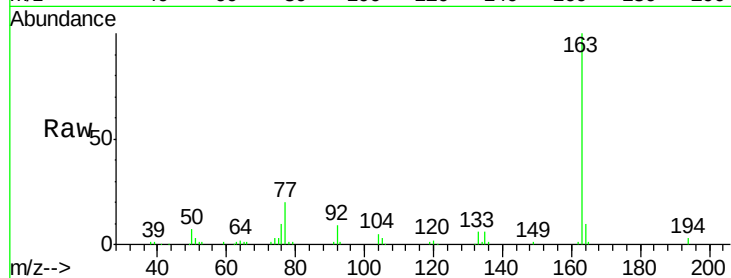
ClientSampleId :

SS-16

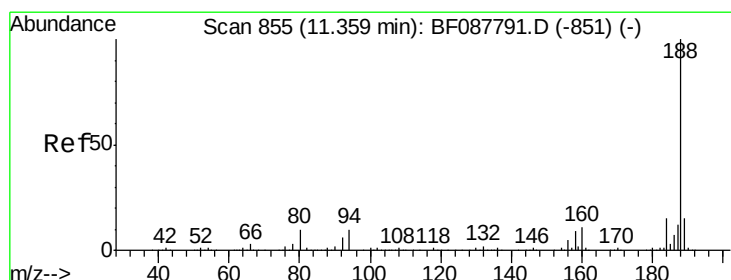
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 90470 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.3   | 2.8   | 4.2   |
| 164       | 10.4  | 8.3   | 12.5  |

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Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

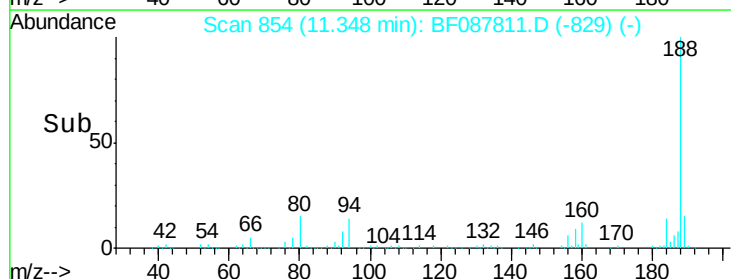
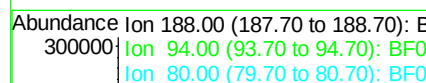
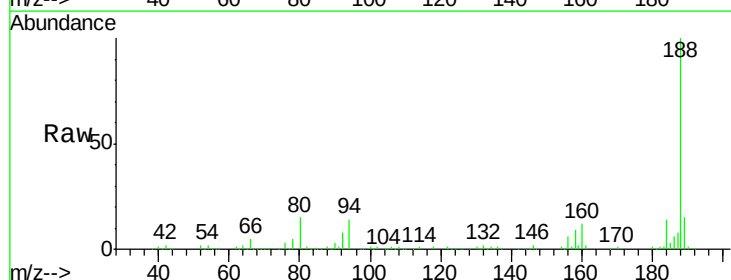
RT: 11.35 min Scan# 854

Delta R.T. -0.01 min

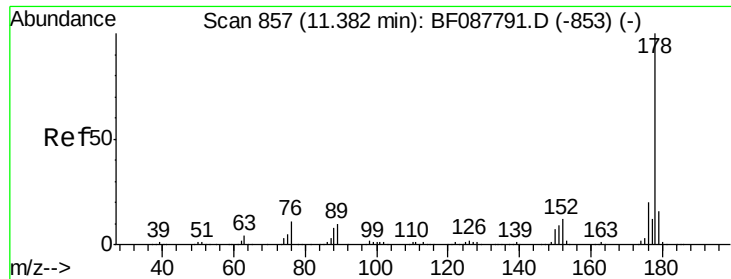
Lab File: BF087811.D

Acq: 8 Jun 2016 15:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 306498 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 13.8  | 9.0   | 13.6#  |
| 80        | 15.5  | 10.0  | 15.0#  |



Time-->



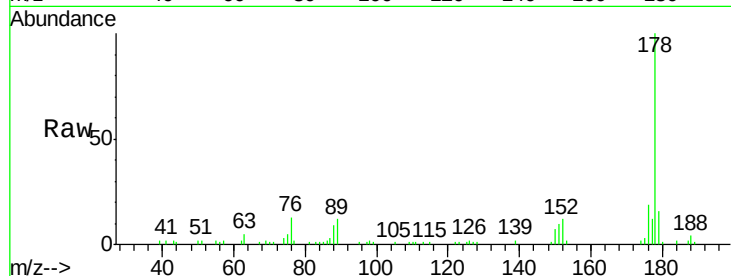
#70  
Phenanthrene  
Concen: 3.19 ng  
RT: 11.37 min Scan# 856  
Delta R.T. -0.01 min  
Lab File: BF087811.D  
Acq: 8 Jun 2016 15:52

Instrument :  
BNA\_F  
ClientSampled :  
SS-16

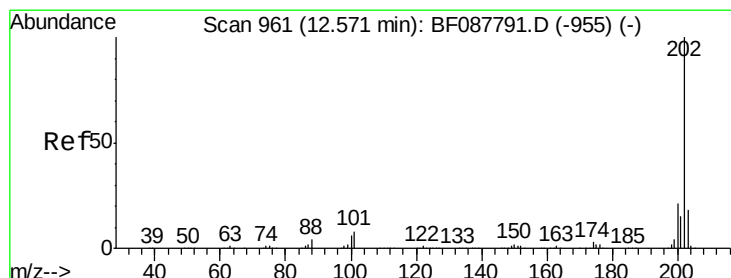
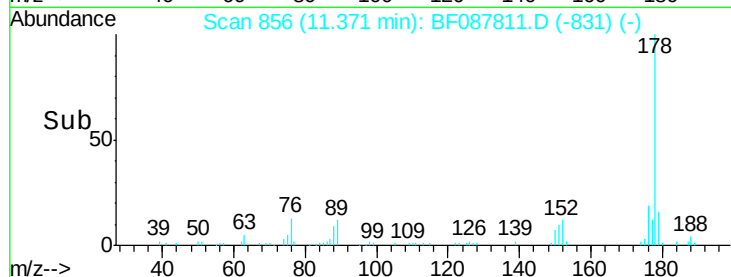
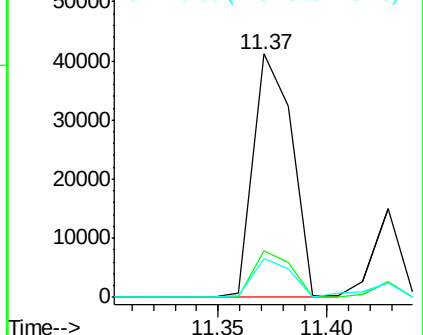
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 15.8  | 23.6  |
| 179     | 16.1  | 13.0  | 19.4  |

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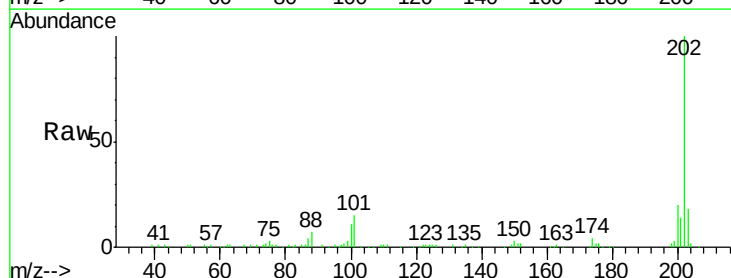


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

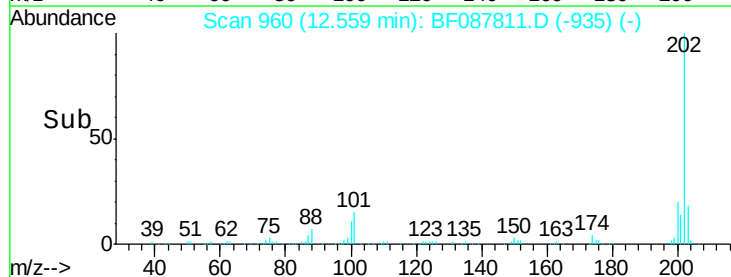
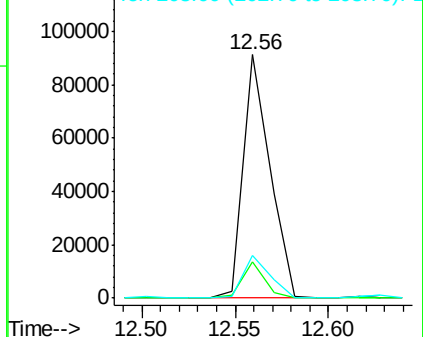


#74  
Fluoranthene  
Concen: 5.41 ng  
RT: 12.56 min Scan# 960  
Delta R.T. -0.01 min  
Lab File: BF087811.D  
Acq: 8 Jun 2016 15:52

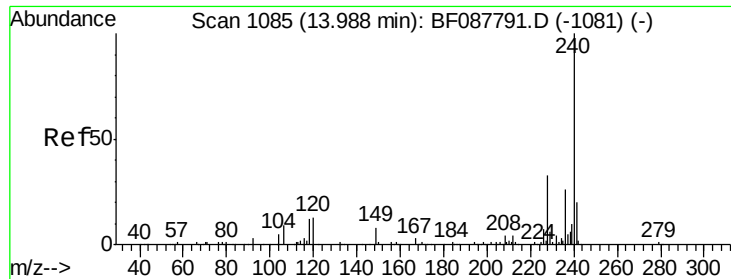
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.6  | 0.0   | 33.1  |
| 203     | 17.6  | 0.0   | 38.1  |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E







#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.99 min Scan# 1085

Delta R.T. -0.00 min

Lab File: BF087811.D

Acq: 8 Jun 2016 15:52

Instrument :

BNA\_F

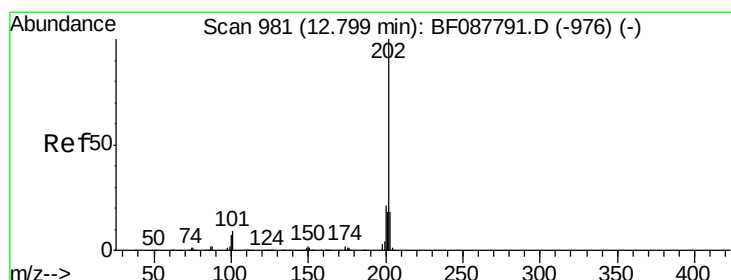
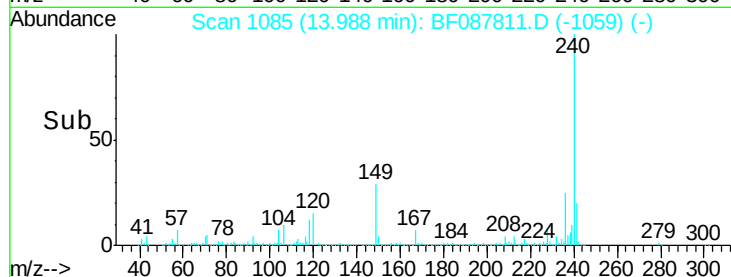
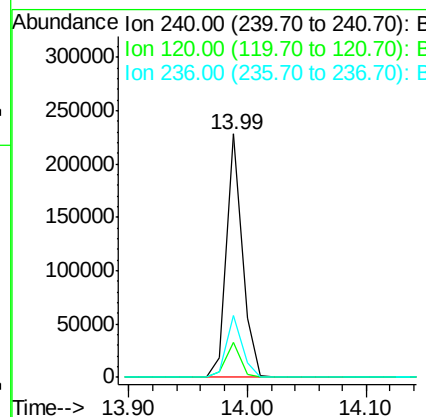
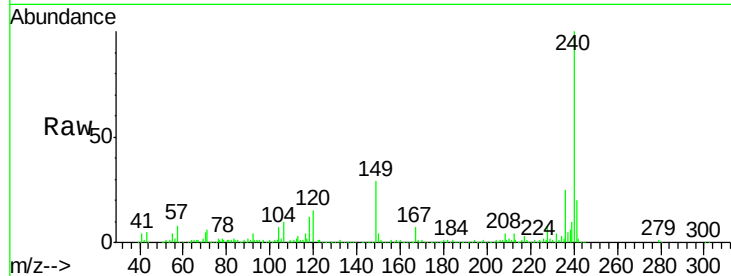
ClientSampleId :

SS-16

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 240  | Resp: | 210257 |
| Ion Ratio |      | Lower | Upper  |
| 240       | 100  |       |        |
| 120       | 14.6 | 6.8   | 10.2#  |
| 236       | 25.3 | 20.2  | 30.2   |

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6/9/2016 7:59:33 PM



#77

Pyrene

Concen: 5.42 ng

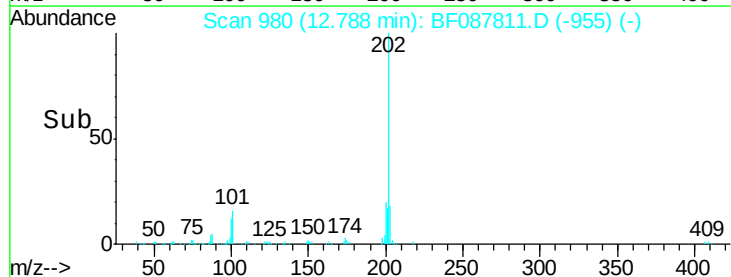
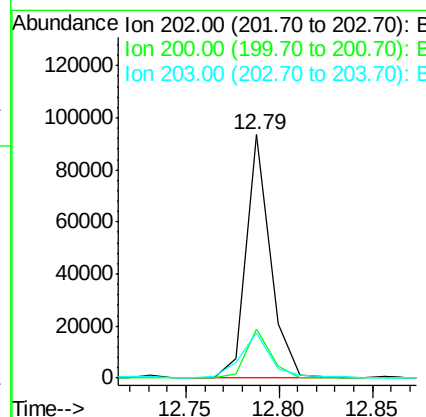
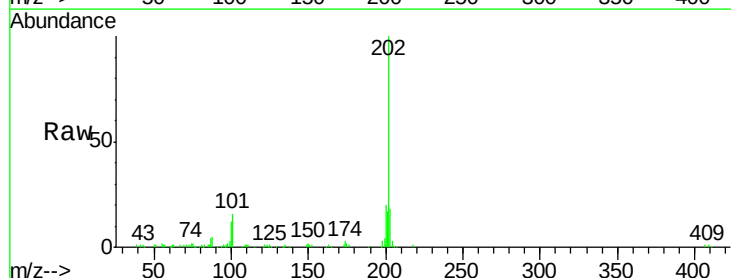
RT: 12.79 min Scan# 980

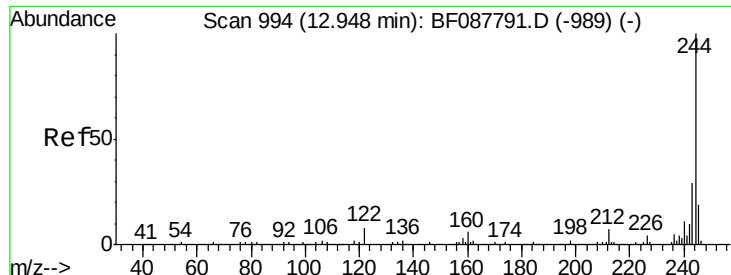
Delta R.T. -0.01 min

Lab File: BF087811.D

Acq: 8 Jun 2016 15:52

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 202  | Resp: | 84620 |
| Ion Ratio |      | Lower | Upper |
| 202       | 100  |       |       |
| 200       | 20.3 | 17.4  | 26.2  |
| 203       | 18.4 | 14.5  | 21.7  |





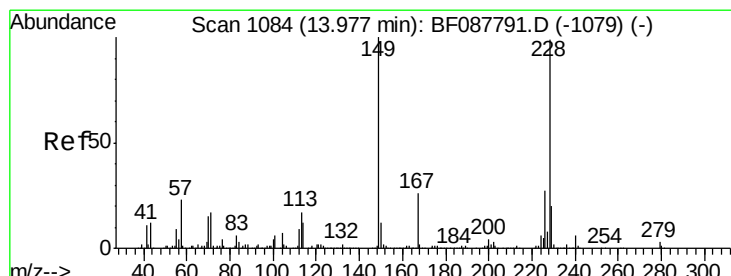
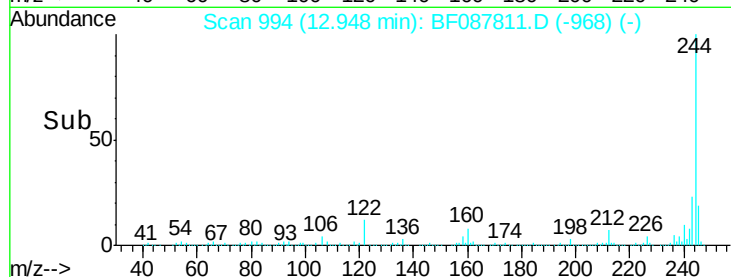
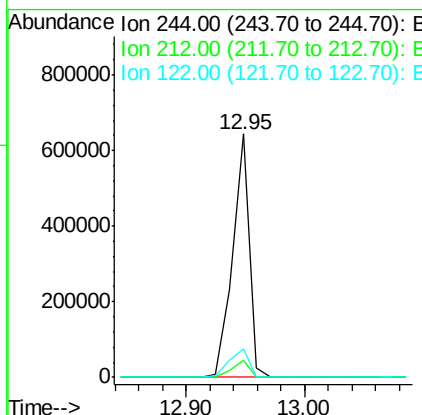
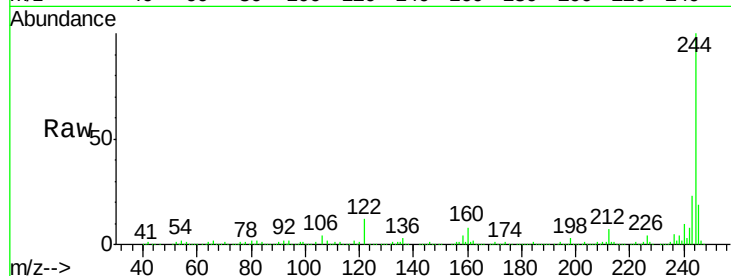
#78  
 Terphenyl-d14  
 Concen: 67.64 ng  
 RT: 12.95 min Scan# 994  
 Delta R.T. -0.00 min  
 Lab File: BF087811.D  
 Acq: 8 Jun 2016 15:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-16

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 6.0   | 9.0   |
| 122     | 11.9  | 11.2  | 16.8  |

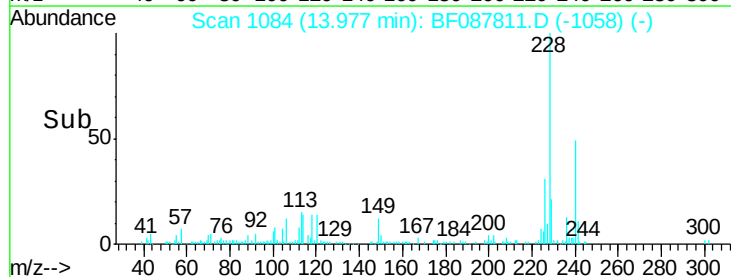
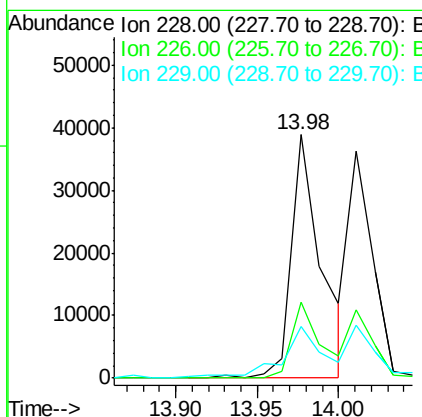
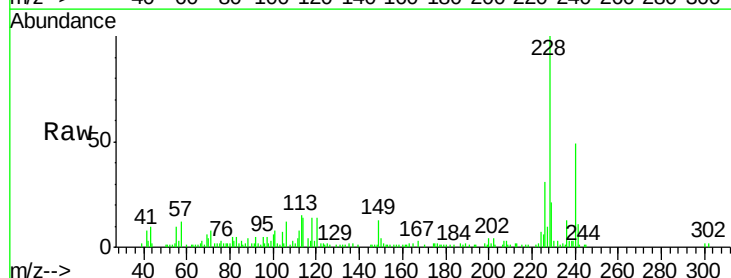
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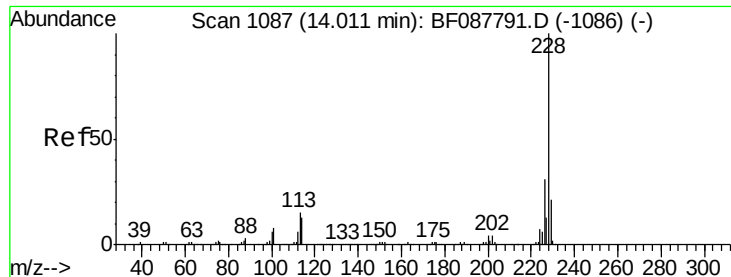
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#80  
 Benzo(a)anthracene  
 Concen: 4.16 ng  
 RT: 13.98 min Scan# 1084  
 Delta R.T. -0.00 min  
 Lab File: BF087811.D  
 Acq: 8 Jun 2016 15:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.3  | 22.3  | 33.5  |
| 229     | 21.3  | 16.0  | 24.0  |





#82

Chrysene

Concen: 3.33 ng/mL

RT: 14.01 min Scan# 1087

Delta R.T. -0.00 min

Lab File: BF087811.D

Acq: 8 Jun 2016 15:52

Instrument :

BNA\_F

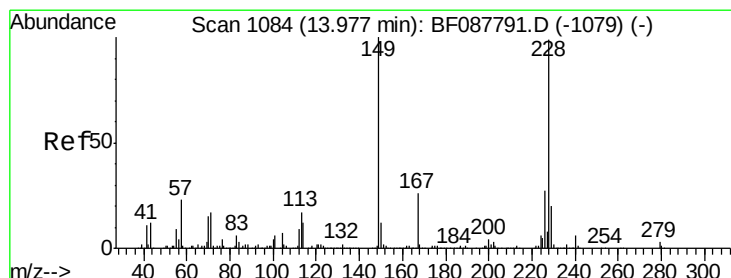
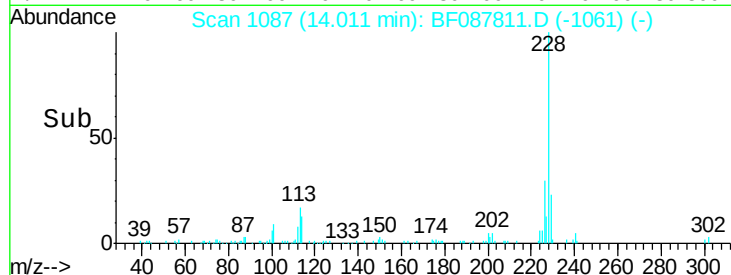
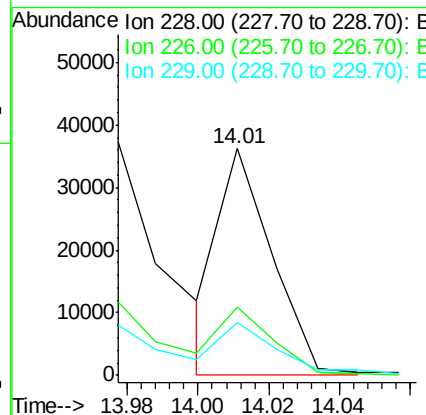
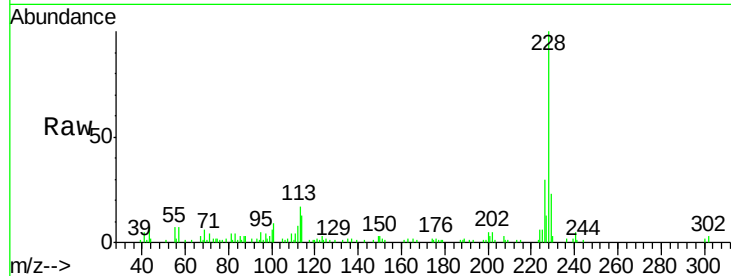
ClientSampled :

SS-16

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 37548 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.1  | 25.4  | 38.2  |
| 229       | 23.3  | 16.3  | 24.5  |

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6/9/2016 7:59:33 PM



#83

Bis(2-ethylhexyl)phthalate

Concen: 7.09 ng/mL

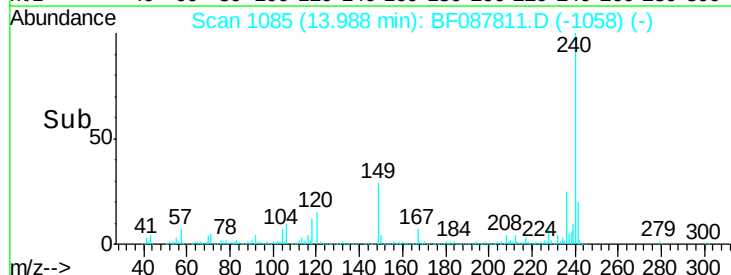
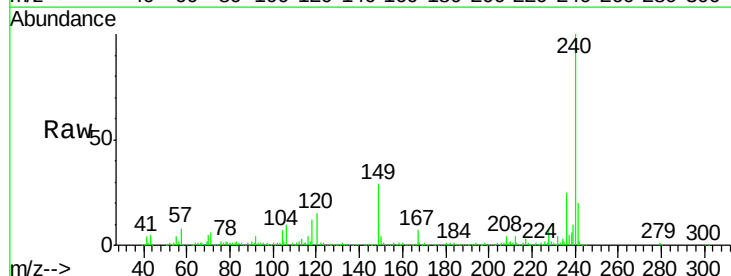
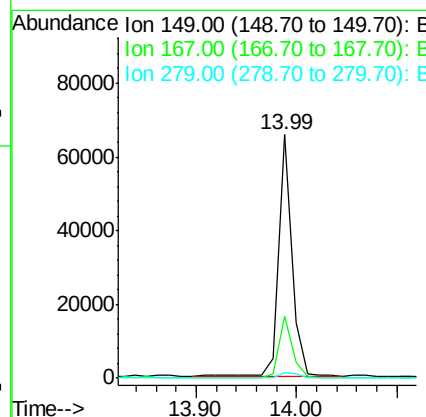
RT: 13.99 min Scan# 1085

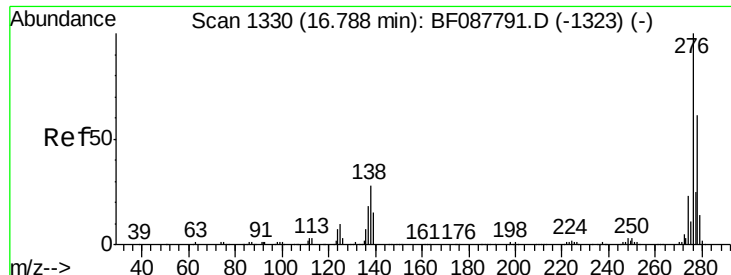
Delta R.T. 0.01 min

Lab File: BF087811.D

Acq: 8 Jun 2016 15:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 59527 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 25.2  | 20.5  | 30.7  |
| 279       | 2.5   | 2.0   | 3.0   |





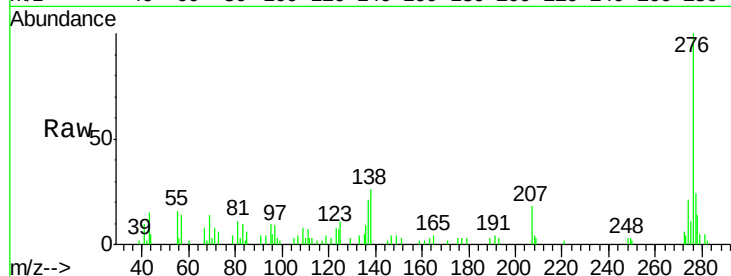
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.90 ng  
 RT: 16.80 min Scan# 1331  
 Delta R.T. 0.01 min  
 Lab File: BF087811.D  
 Acq: 8 Jun 2016 15:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-16

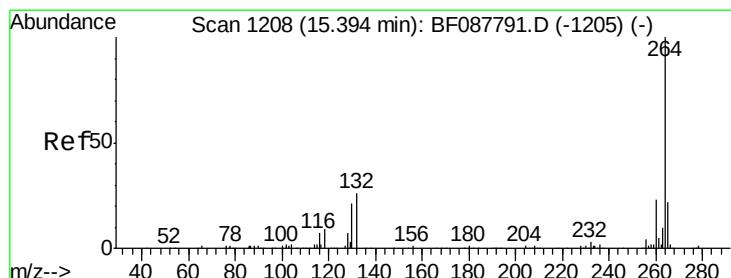
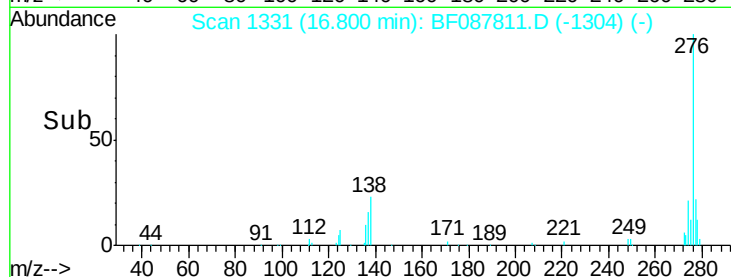
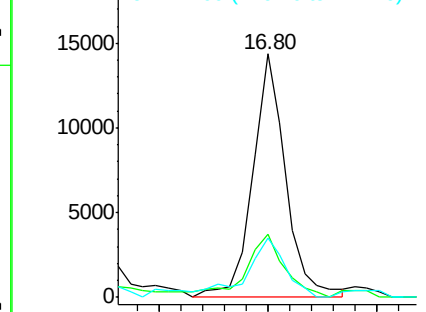
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 30.7  | 0.0        | 0.0#  |
| 277     | 28.3  | 0.0        | 0.0#  |

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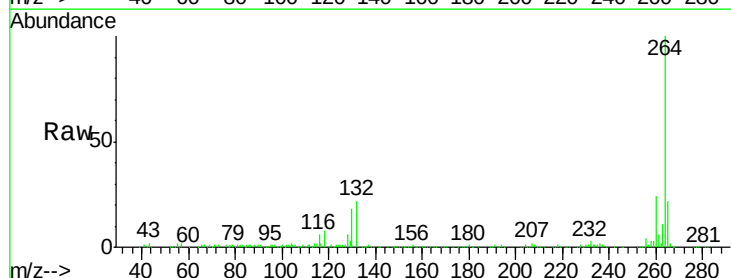


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

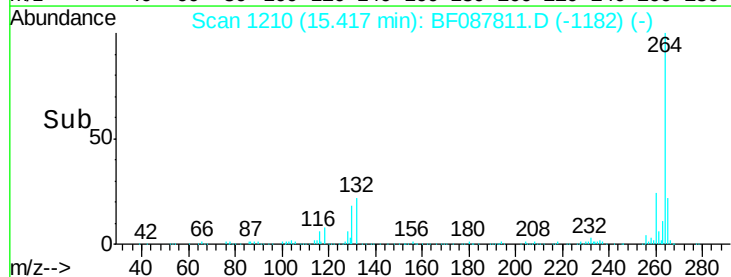
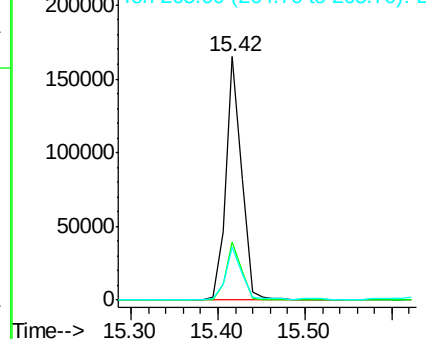


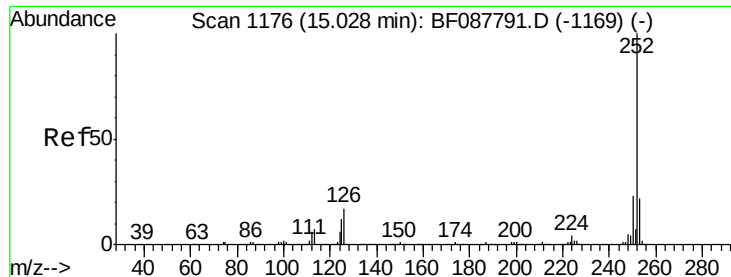
#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.42 min Scan# 1210  
 Delta R.T. 0.02 min  
 Lab File: BF087811.D  
 Acq: 8 Jun 2016 15:52

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 264     | 100   |            |       |
| 260     | 23.6  | 19.2       | 28.8  |
| 265     | 21.7  | 16.9       | 25.3  |



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





#87

Benzo(b)fluoranthene

Concen: 3.88 ng m

RT: 15.01 min Scan# 1174

Delta R.T. 0.01 min

Lab File: BF087811.D

Acq: 8 Jun 2016 15:52

Instrument :

BNA\_F

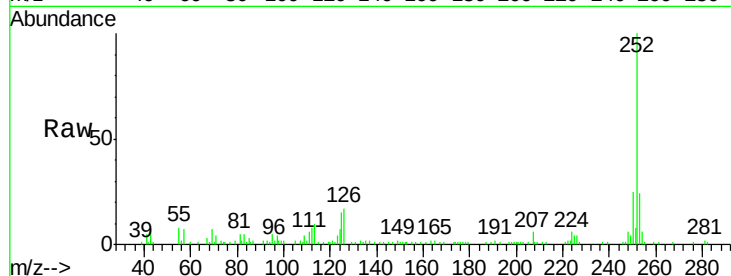
ClientSampled :

SS-16

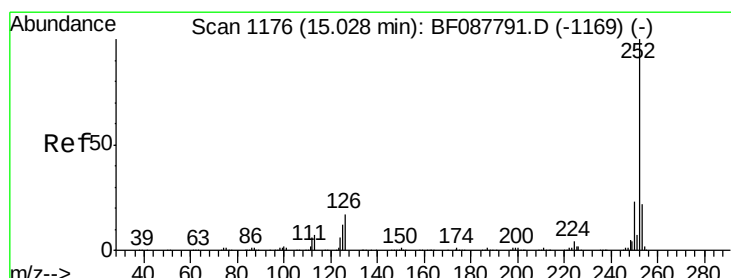
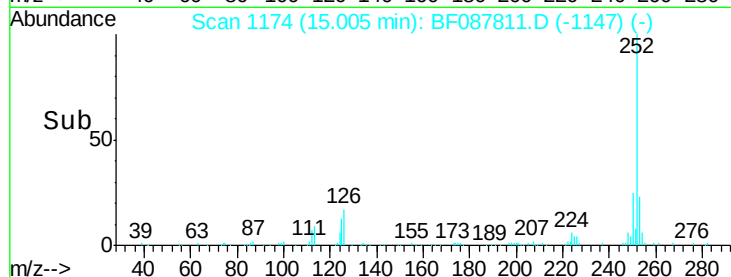
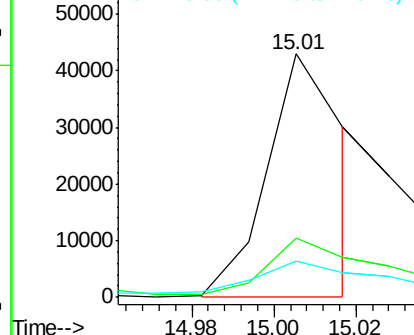
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 56910 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 17.4  | 26.2  |
| 125       | 14.9  | 7.1   | 10.7# |

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



#88

Benzo(k)fluoranthene

Concen: 2.22 ng m

RT: 15.02 min Scan# 1175

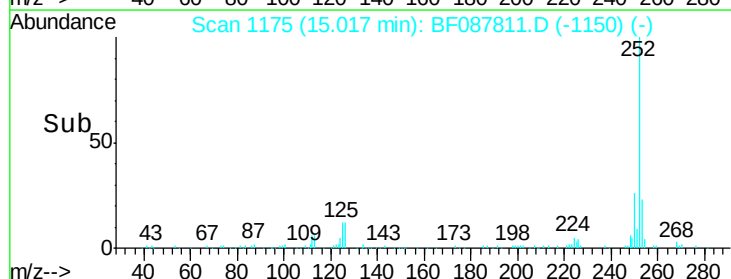
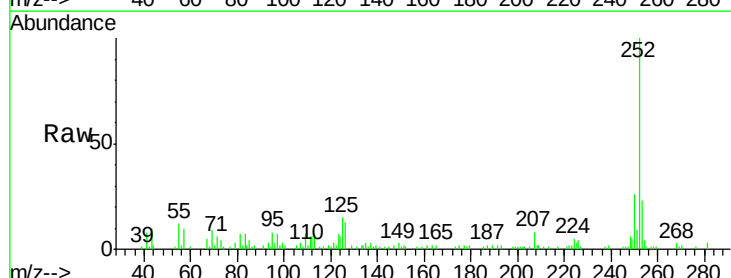
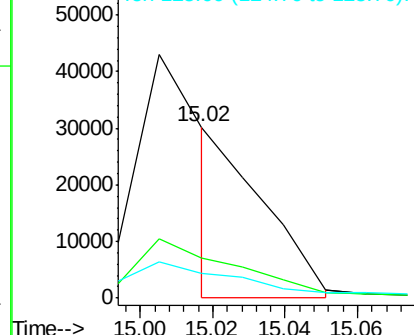
Delta R.T. -0.01 min

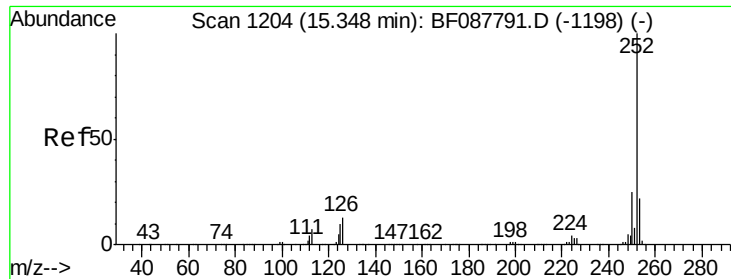
Lab File: BF087811.D

Acq: 8 Jun 2016 15:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 24525 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 18.0  | 27.0  |
| 125       | 14.8  | 11.2  | 16.8  |

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





#89

Benzo(a)pyrene

Concen: 3.69 ng

RT: 15.36 min Scan# 1205

Delta R.T. 0.01 min

Lab File: BF087811.D

Acq: 8 Jun 2016 15:52

Instrument :

BNA\_F

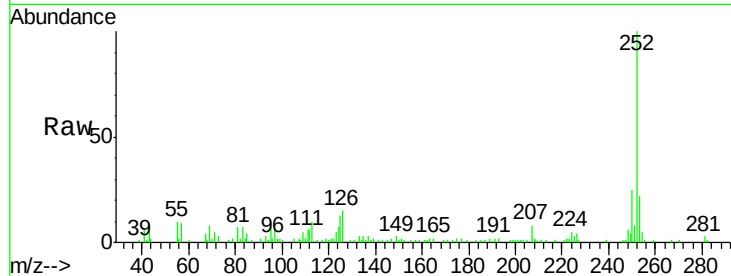
ClientSampled :

SS-16

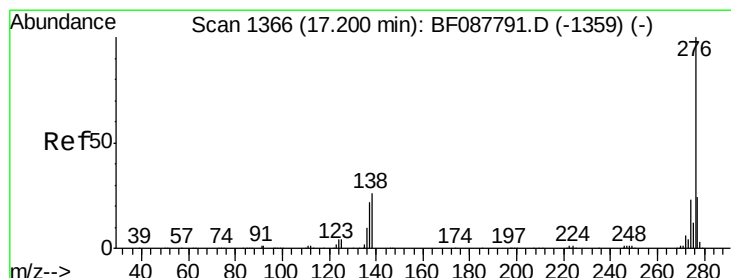
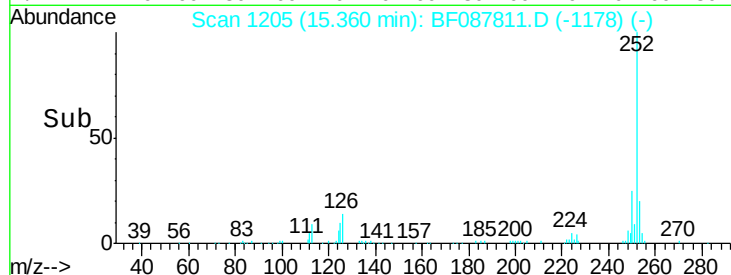
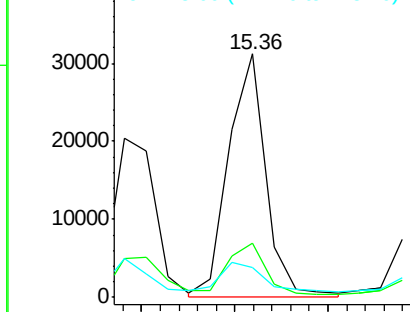
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 43800 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.3  | 17.9  | 26.9  |
| 125       | 12.5  | 12.5  | 18.7  |

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



#91

Benzo(g,h,i)perylene

Concen: 2.39 ng

RT: 17.21 min Scan# 1367

Delta R.T. 0.01 min

Lab File: BF087811.D

Acq: 8 Jun 2016 15:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 27106 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.5  | 18.9  | 28.3  |
| 138       | 28.1  | 21.4  | 32.2  |

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

