

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060616\  
 Data File : BF087747.D  
 Acq On : 6 Jun 2016 12:44  
 Operator : UM/SJ  
 Sample : H3190-13  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1672(0-4)

Manual Integrations  
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 6/6/2016 7:29:44 PM

Quant Time: Jun 06 16:30:28 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jun 04 11:07:28 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.84  | 152  | 162255   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.14  | 136  | 698204   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.88  | 164  | 297159   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.37 | 188  | 566115   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 14.00 | 240  | 348339   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 15.43 | 264  | 340869   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.44  | 112  | 460876   | 45.91  | ng    | -0.01    |
| 7) Phenol-d6                | 6.48  | 99   | 729219   | 57.92  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 487725   | 40.42  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.67 | 330  | 332656   | 111.52 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.21  | 172  | 998081   | 44.75  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.96 | 244  | 1117560  | 78.29  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.61  | 163  | 525972   | 24.35  | ng    | 100      |
| 70) Phenanthrene            | 11.39 | 178  | 156436   | 5.10   | ng    | 97       |
| 71) Anthracene              | 11.44 | 178  | 68745    | 2.24   | ng    | 98       |
| 74) Fluoranthene            | 12.58 | 202  | 477981   | 15.82  | ng    | 92       |
| 77) Pyrene                  | 12.80 | 202  | 451725   | 18.21  | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.99 | 228  | 220700   | 10.98  | ng    | # 92     |
| 82) Chrysene                | 14.02 | 228  | 263628m  | 13.18  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.81 | 276  | 150572   | 9.10   | ng    | # 100    |
| 87) Benzo(b)fluoranthene    | 15.02 | 252  | 337513m  | 15.22  | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.03 | 252  | 143933m  | 7.80   | ng    |          |
| 89) Benzo(a)pyrene          | 15.36 | 252  | 188966   | 10.14  | ng    | 98       |
| 90) Dibenzo(a,h)anthracene  | 16.82 | 278  | 39770    | 2.51   | ng    | 95       |
| 91) Benzo(a,h,i)perylene    | 17.22 | 276  | 132424   | 8.27   | ng    | 98       |

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

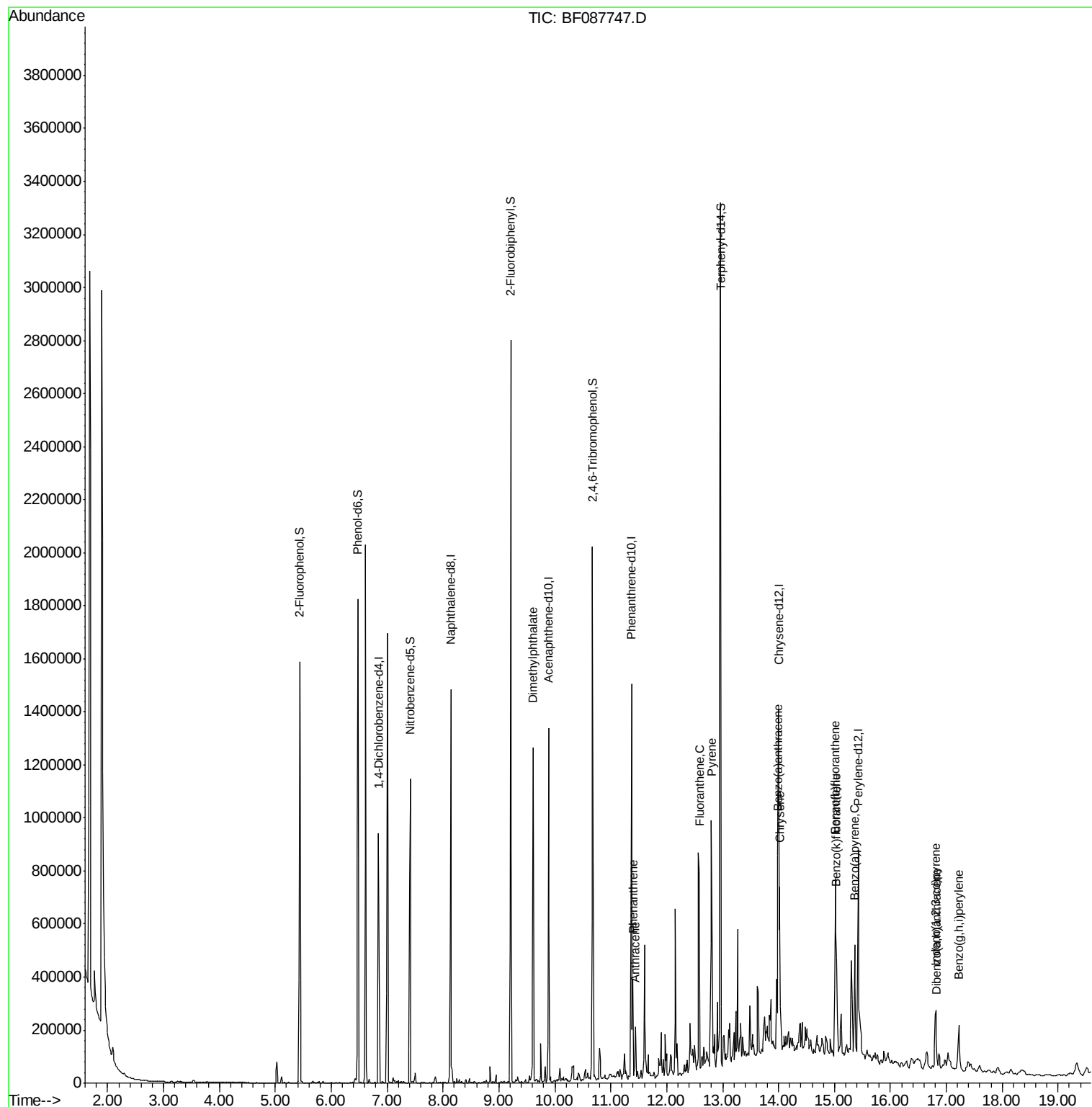
Data Path : Z:\HPCHEM1\BNA F\DATA\BF060616\  
Data File : BF087747.D  
Acq On : 6 Jun 2016 12:44  
Operator : UM/SJ  
Sample : H3190-13  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

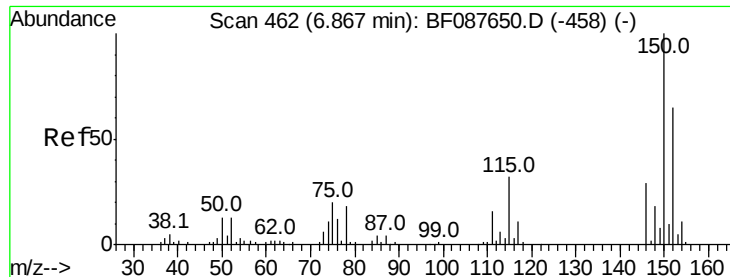
Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1672(0-4)

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Quant Time: Jun 06 16:30:28 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jun 04 11:07:28 2016  
Response via : Initial Calibration





#1

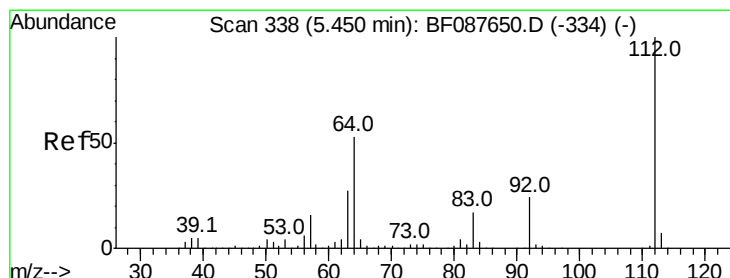
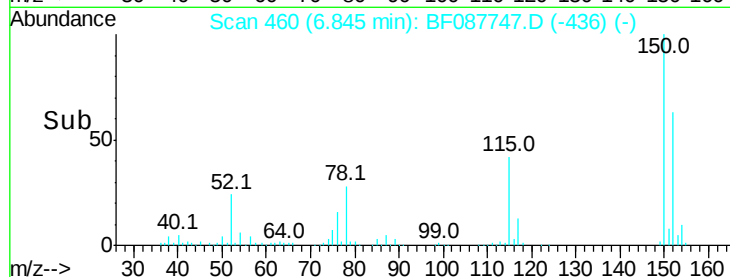
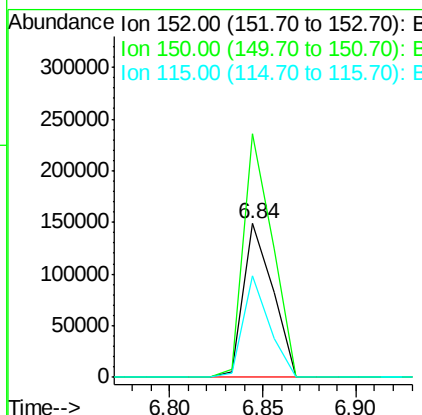
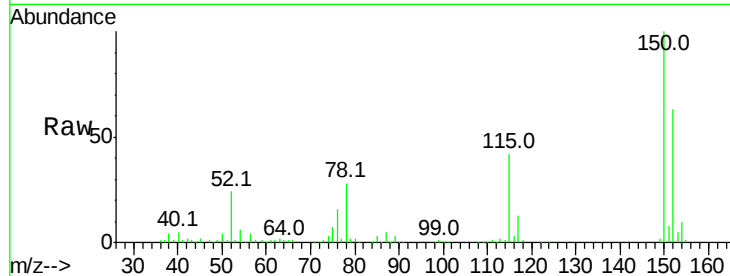
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.84 min Scan# 460  
Delta R.T. -0.02 min  
Lab File: BF087747.D  
Acq: 6 Jun 2016 12:44

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1672(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.2 | 123.8 | 185.6 |
| 115     | 66.4  | 39.6  | 59.4  |

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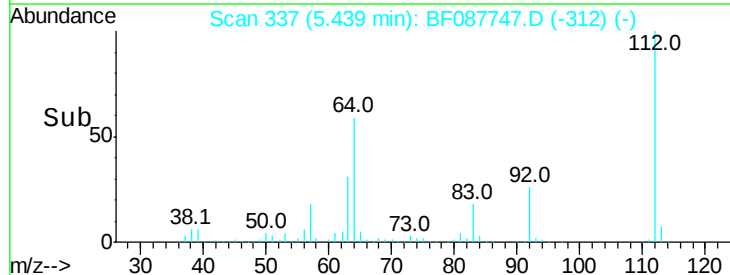
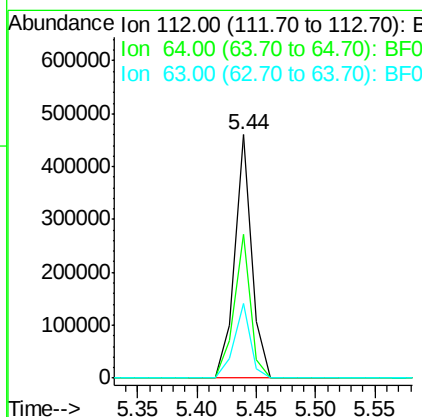
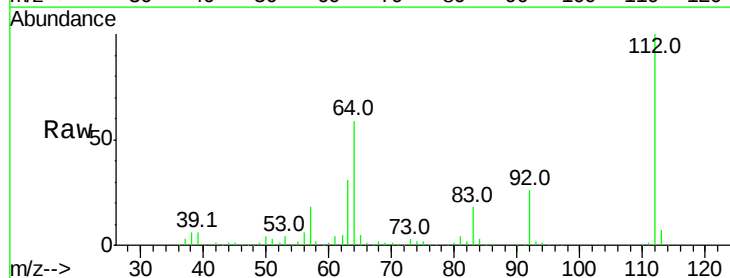
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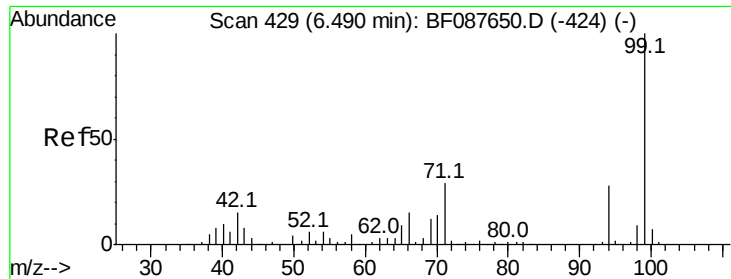


#5

2-Fluorophenol  
Concen: 45.91 ng  
RT: 5.44 min Scan# 337  
Delta R.T. -0.01 min  
Lab File: BF087747.D  
Acq: 6 Jun 2016 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.2  | 42.2  | 63.2  |
| 63      | 30.6  | 21.8  | 32.8  |





#7

Phenol-d6

Concen: 57.92 ng

RT: 6.48 min Scan# 428

Delta R.T. -0.01 min

Lab File: BF087747.D

Acq: 6 Jun 2016 12:44

Instrument :

BNA\_F

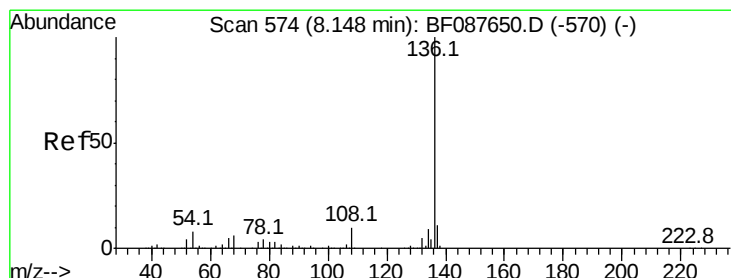
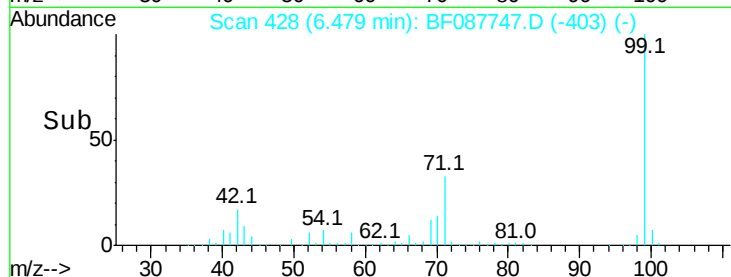
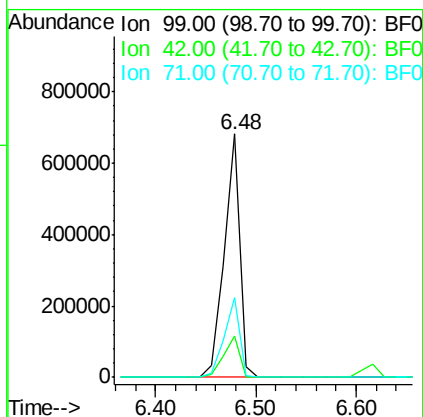
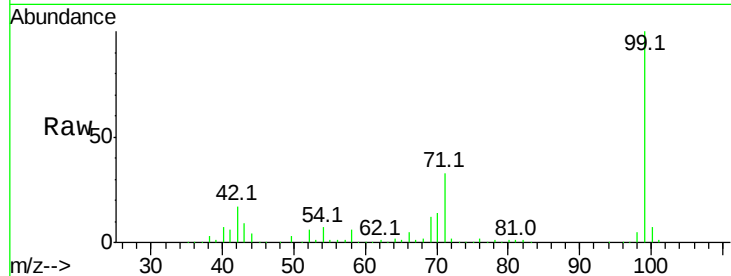
ClientSampleId :

CHS-STA-1672(0-4)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 729219 |       |       |
| 42      | 16.9 | 12.2  | 18.2   |       |       |
| 71      | 32.9 | 23.4  | 35.0   |       |       |

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#21

Naphthalene-d8

Concen: 20.00 ng

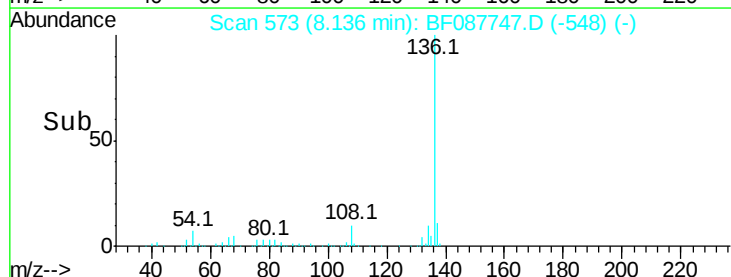
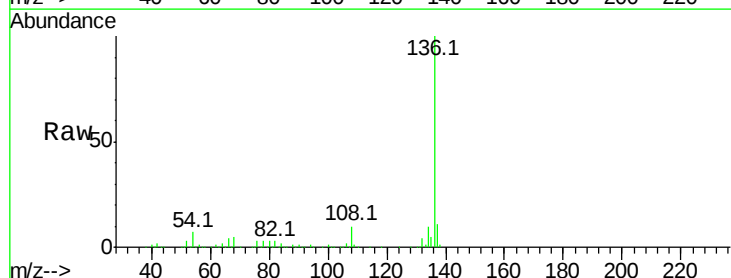
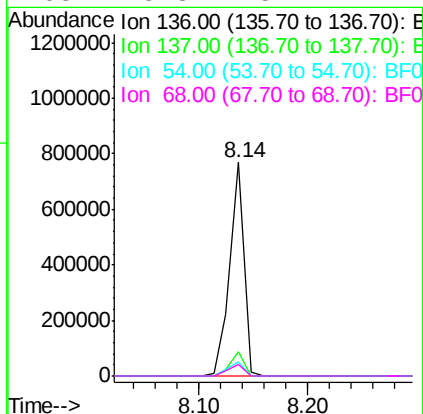
RT: 8.14 min Scan# 573

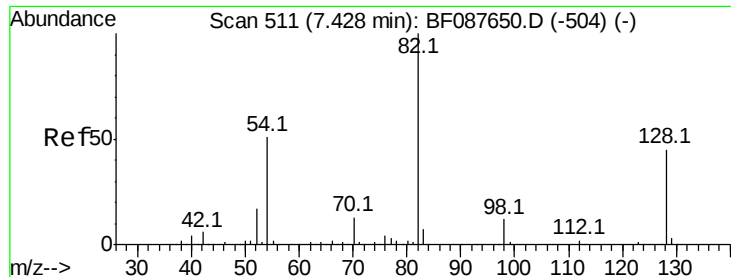
Delta R.T. -0.01 min

Lab File: BF087747.D

Acq: 6 Jun 2016 12:44

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 698204 |       |       |
| 137     | 11.1 | 9.1   | 13.7   |       |       |
| 54      | 6.6  | 6.6   | 10.0   |       |       |
| 68      | 5.3  | 5.1   | 7.7    |       |       |





#23

Nitrobenzene-d5

Concen: 40.42 ng

RT: 7.42 min Scan# 510

Delta R.T. -0.01 min

Lab File: BF087747.D

Acq: 6 Jun 2016 12:44

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1672(0-4)

Tot Ion: 82 Resp: 487725

Ion Ratio Lower Upper

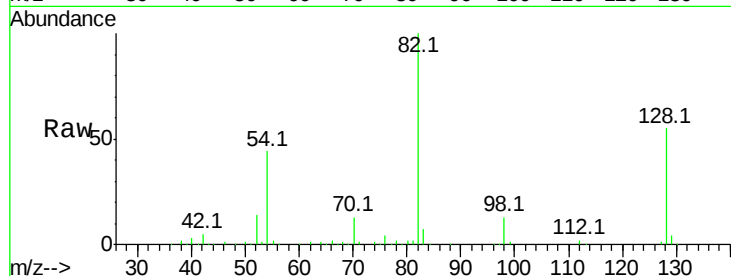
82 100

128 54.7 35.9 53.9#

54 43.5 40.9 61.3

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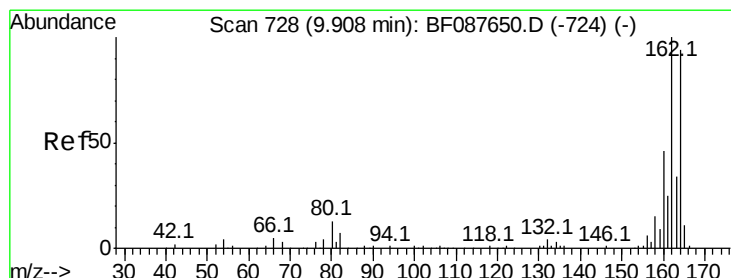
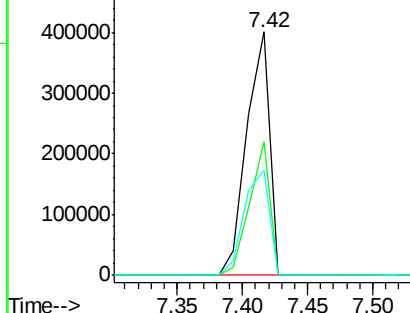
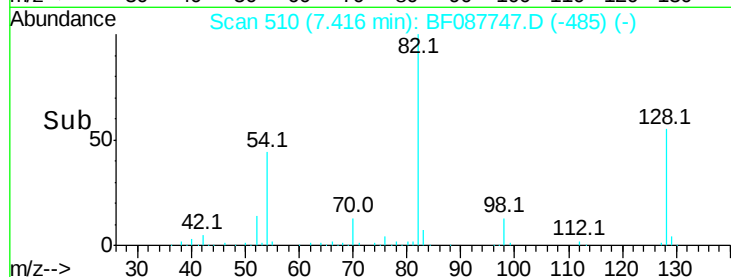
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Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 726

Delta R.T. -0.02 min

Lab File: BF087747.D

Acq: 6 Jun 2016 12:44

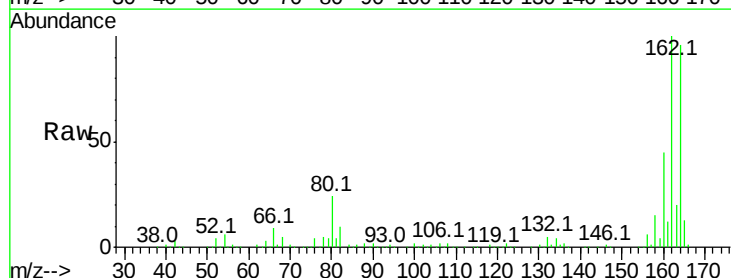
Tgt Ion:164 Resp: 297159

Ion Ratio Lower Upper

164 100

162 103.9 85.4 128.2

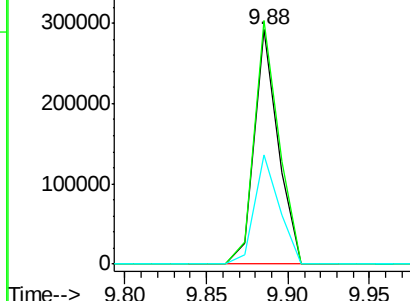
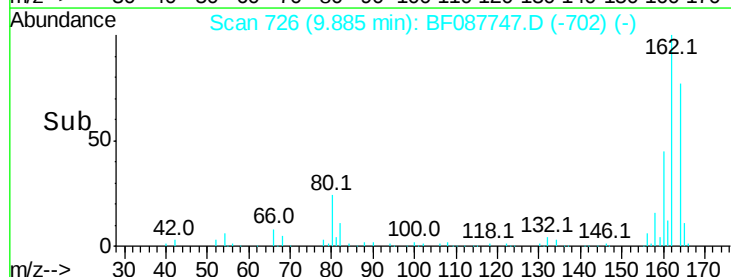
160 46.6 39.5 59.3

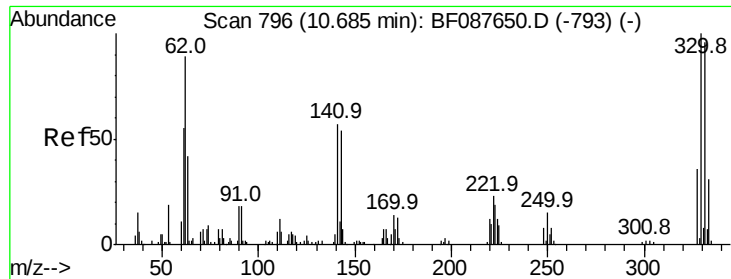


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





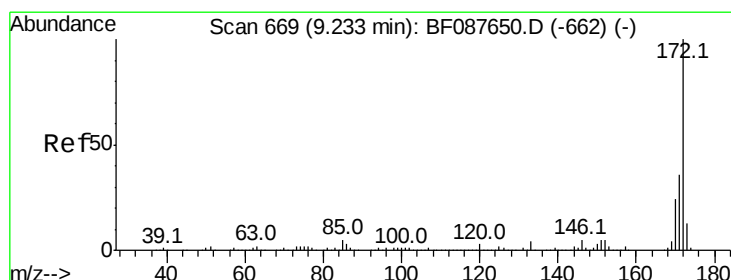
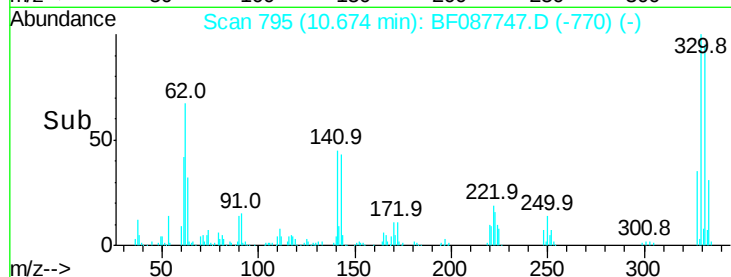
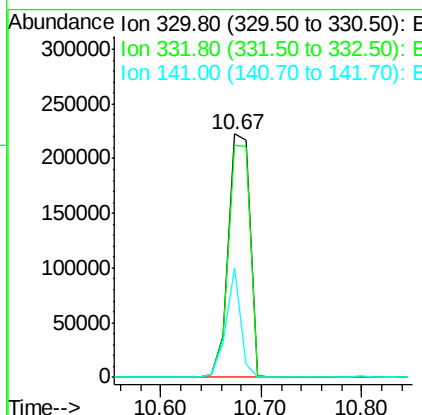
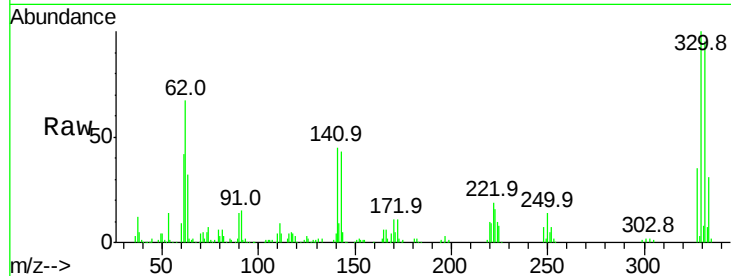
#41  
 2,4,6-Tribromophenol  
 Concen: 111.52 ng  
 RT: 10.67 min Scan# 795  
 Delta R.T. -0.01 min  
 Lab File: BF087747.D  
 Acq: 6 Jun 2016 12:44

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1672(0-4)

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 330     | 100   |            |            |
| 332     | 96.2  | 0.0        | 0.0#       |
| 141     | 31.0  | 0.0        | 0.0#       |

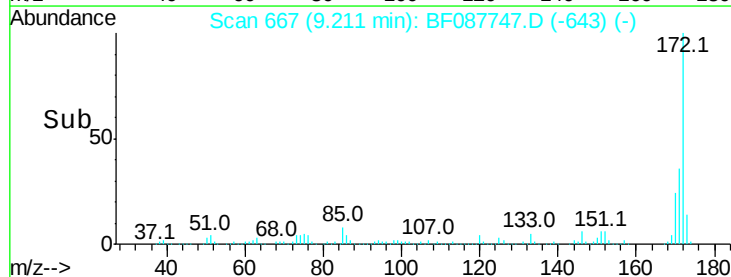
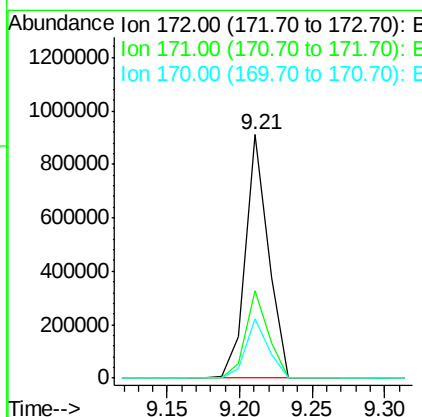
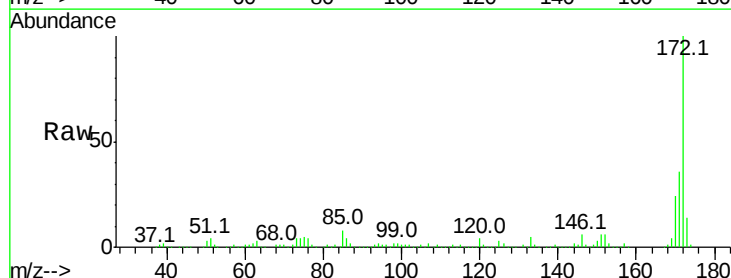
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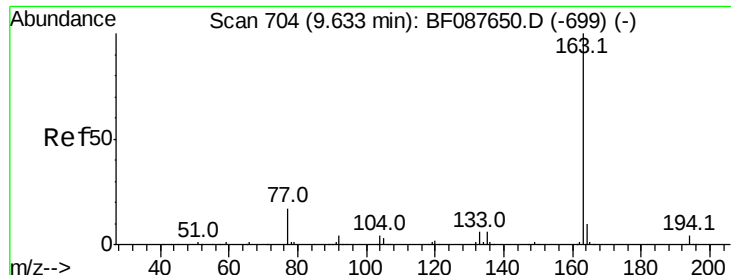
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#44  
 2-Fluorobiphenyl  
 Concen: 44.75 ng  
 RT: 9.21 min Scan# 667  
 Delta R.T. -0.02 min  
 Lab File: BF087747.D  
 Acq: 6 Jun 2016 12:44

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 172     | 100   |            |            |
| 171     | 36.0  | 28.6       | 43.0       |
| 170     | 24.4  | 19.2       | 28.8       |





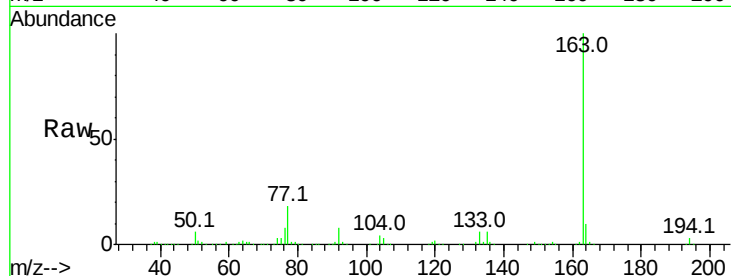
#49  
Dimethylphthalate  
Concen: 24.35 ng  
RT: 9.61 min Scan# 702  
Delta R.T. -0.02 min  
Lab File: BF087747.D  
Acq: 6 Jun 2016 12:44

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1672(0-4)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 3.5   | 2.8  | 4.2   |       |
| 164     | 10.3  | 8.3  | 12.5  |       |

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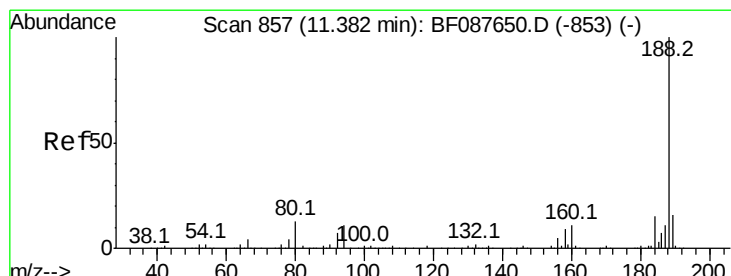
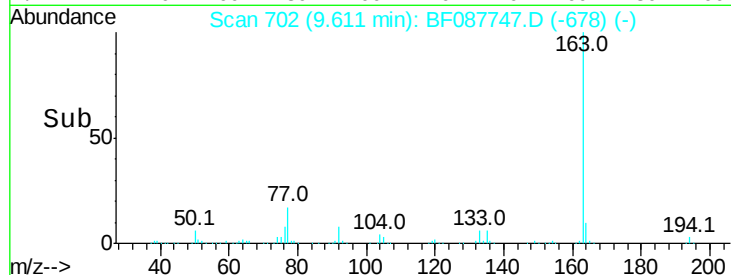
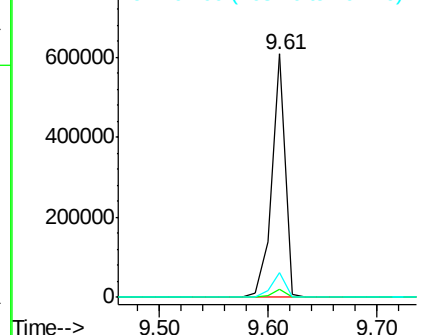


Abundance

Ion 163.00 (162.70 to 163.70): E

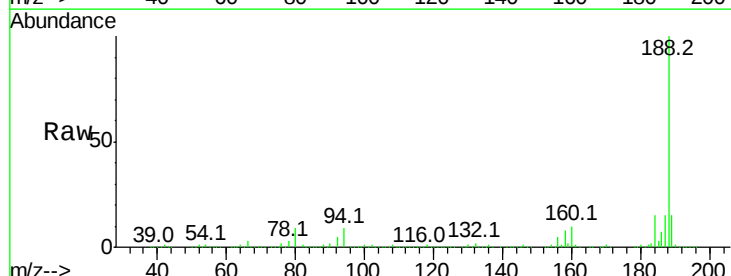
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.37 min Scan# 856  
Delta R.T. -0.01 min  
Lab File: BF087747.D  
Acq: 6 Jun 2016 12:44

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 8.5   | 9.0  | 13.6# |       |
| 80      | 8.8   | 10.0 | 15.0# |       |

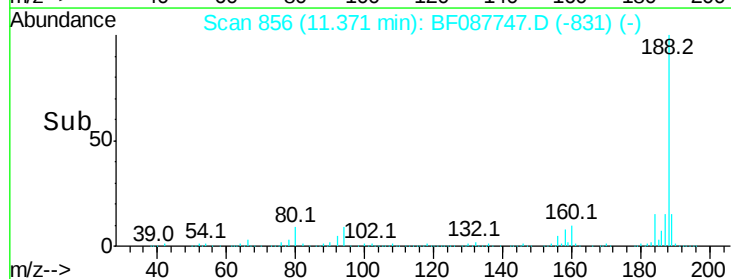
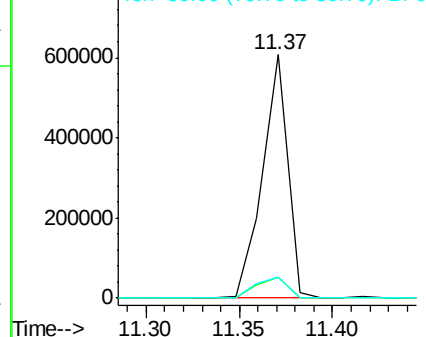


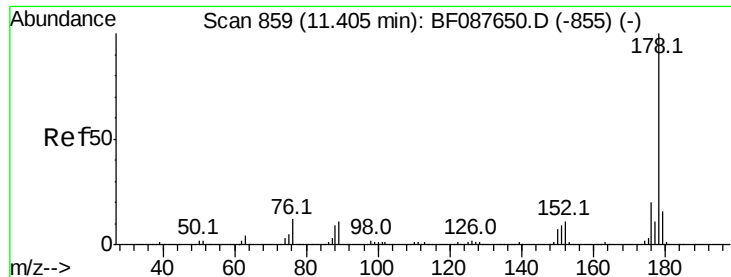
Abundance

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: 5.10 ng

RT: 11.39 min Scan# 858

Delta R.T. -0.01 min

Lab File: BF087747.D

Acq: 6 Jun 2016 12:44

Instrument :

BNA\_F

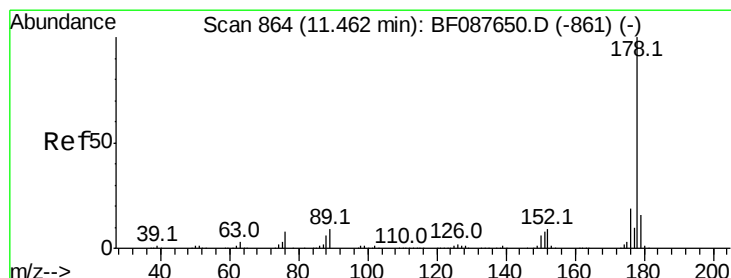
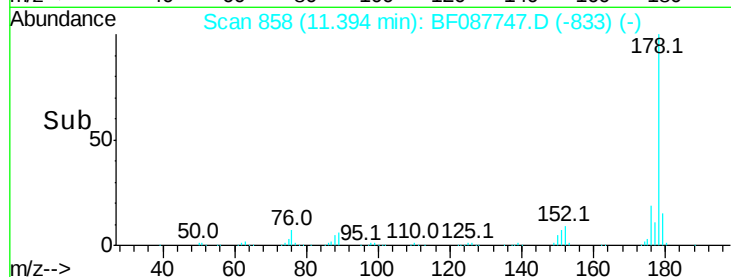
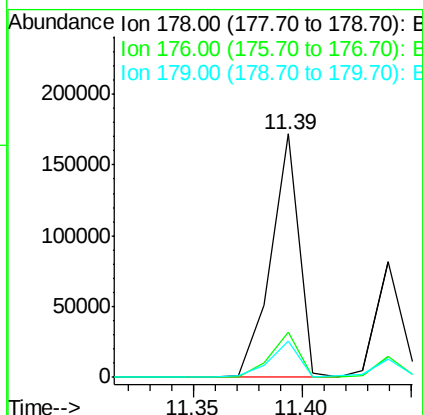
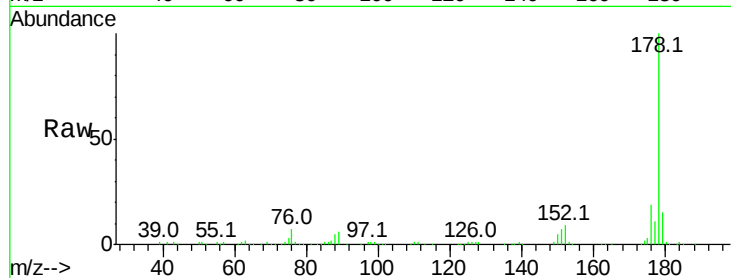
ClientSampleId :

CHS-STA-1672(0-4)

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 156436    |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.5  | 15.8 23.6 |
| 179         | 14.7  | 13.0 19.4 |

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#71

Anthracene

Concen: 2.24 ng

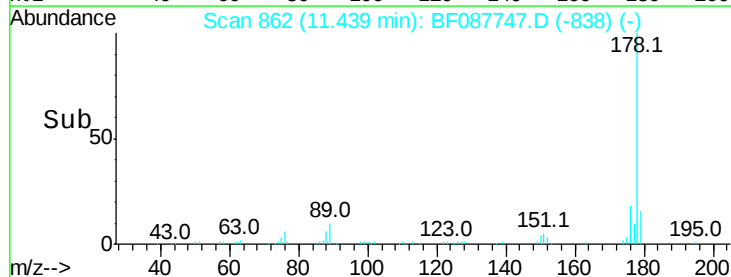
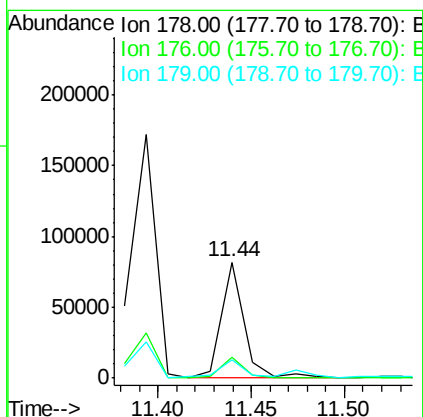
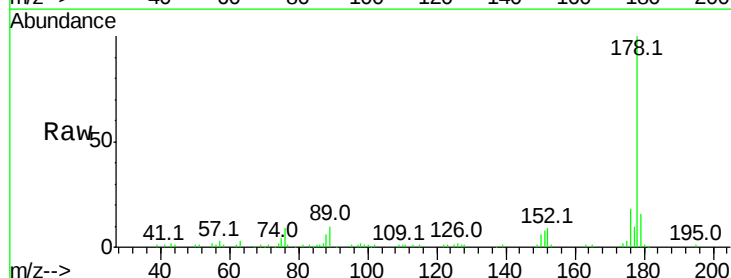
RT: 11.44 min Scan# 862

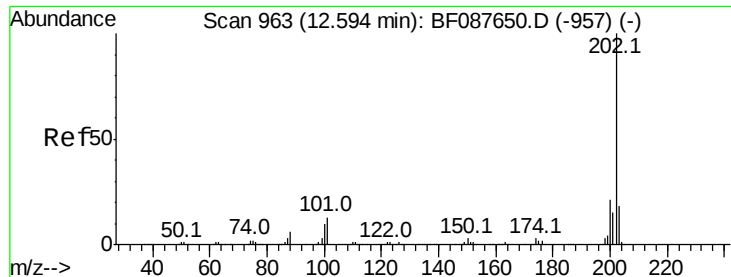
Delta R.T. -0.02 min

Lab File: BF087747.D

Acq: 6 Jun 2016 12:44

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 68745     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.1  | 15.6 23.4 |
| 179         | 15.7  | 12.8 19.2 |





#74

Fluoranthene

Concen: 15.82 ng

RT: 12.58 min Scan# 962

Delta R.T. -0.01 min

Lab File: BF087747.D

Acq: 6 Jun 2016 12:44

Instrument :

BNA\_F

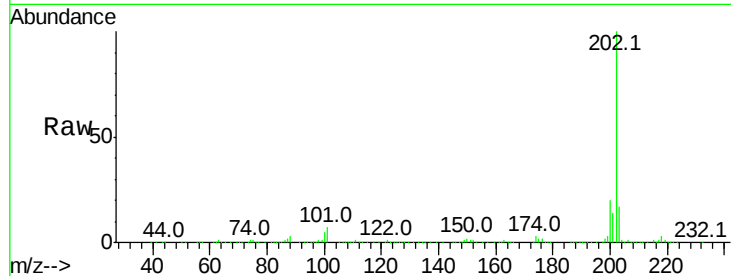
ClientSampleId :

CHS-STA-1672(0-4)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 477981 |       |       |
| 101     | 7.1   | 0.0    | 33.1  |       |
| 203     | 17.0  | 0.0    | 38.1  |       |

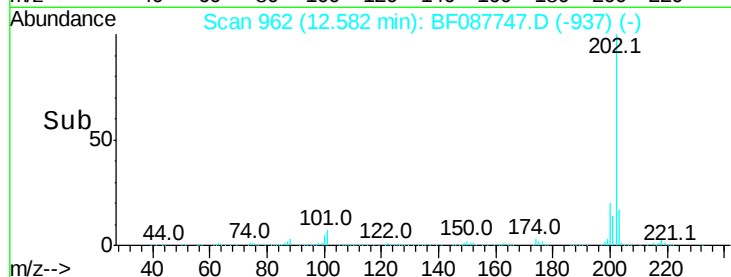
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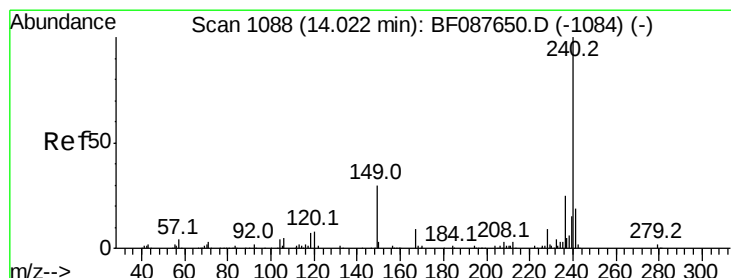


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E

12.58



Time--> 12.50 12.55 12.60



#75

Chrysene-d12

Concen: 20.00 ng

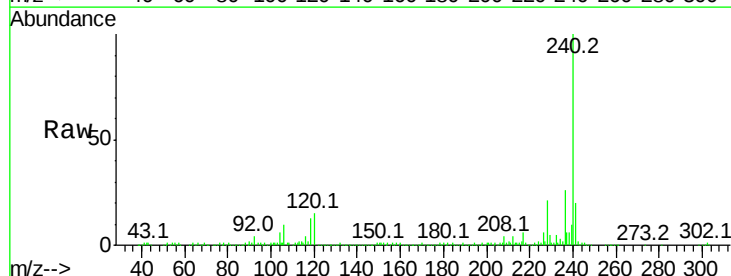
RT: 14.00 min Scan# 1086

Delta R.T. -0.02 min

Lab File: BF087747.D

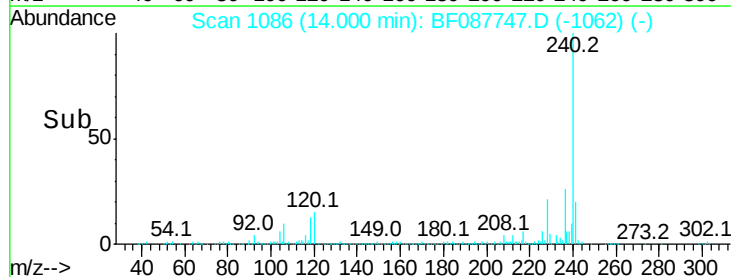
Acq: 6 Jun 2016 12:44

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 348339 |       |       |
| 120     | 14.6  | 6.8    | 10.2# |       |
| 236     | 26.0  | 20.2   | 30.2  |       |

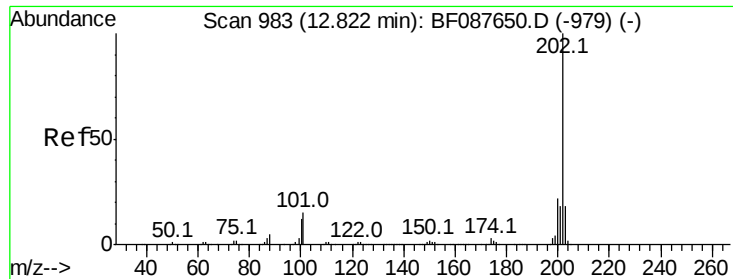


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

14.00



Time--> 13.90 14.00 14.10 14.20



#77

Pvrene

Concen: 18.21 ng

RT: 12.80 min Scan# 981

Delta R.T. -0.02 min

Lab File: BF087747.D

Acq: 6 Jun 2016 12:44

Instrument :

BNA\_F

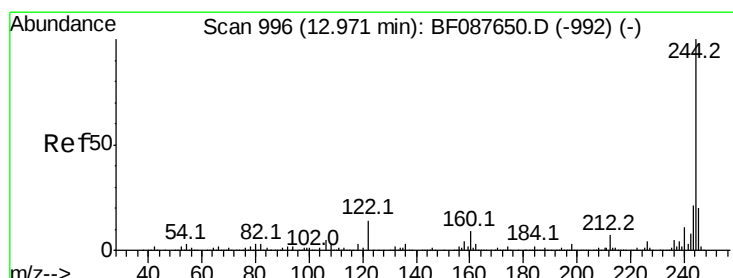
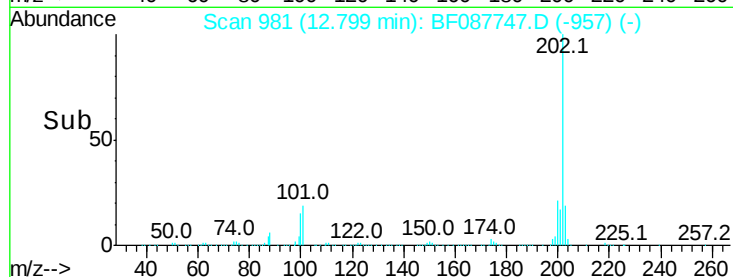
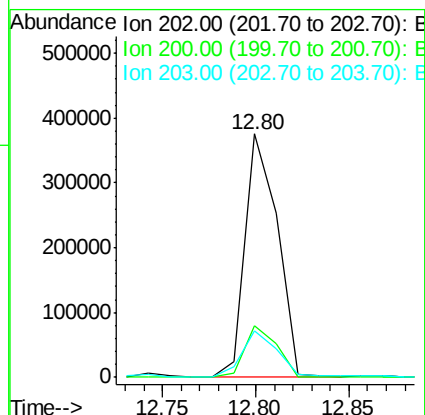
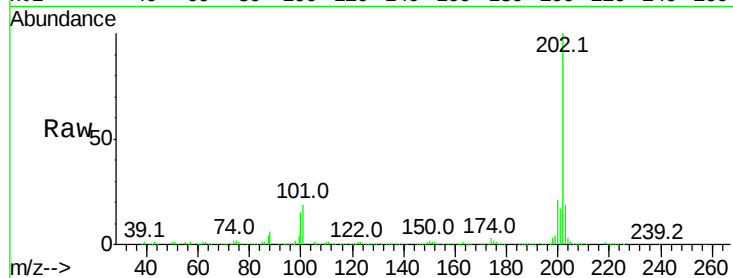
ClientSampleId :

CHS-STA-1672(0-4)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 451725 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.2  | 17.4  | 26.2   |
| 203       | 19.1  | 14.5  | 21.7   |

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#78

Terphenyl-d14

Concen: 78.29 ng

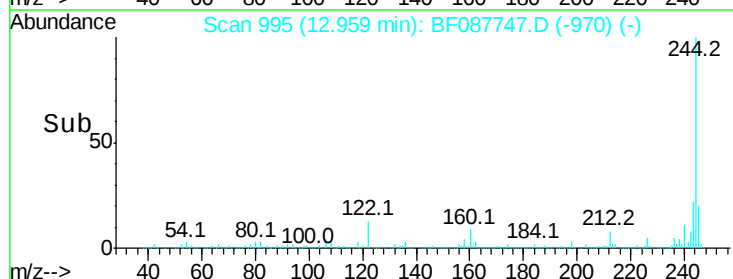
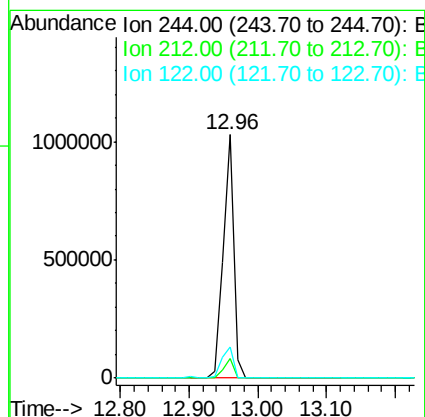
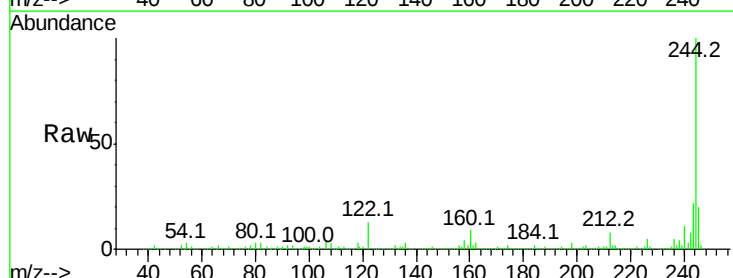
RT: 12.96 min Scan# 995

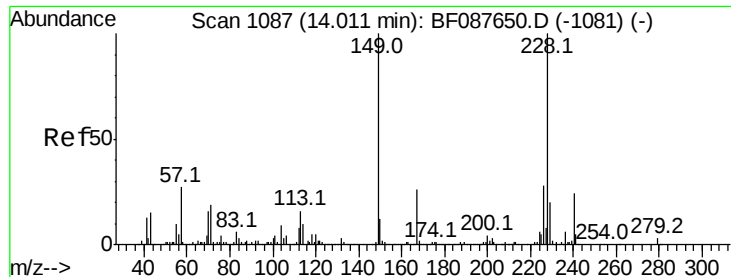
Delta R.T. -0.01 min

Lab File: BF087747.D

Acq: 6 Jun 2016 12:44

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 244   | Resp: | 1117560 |
| Ion Ratio | Lower | Upper |         |
| 244       | 100   |       |         |
| 212       | 7.8   | 6.0   | 9.0     |
| 122       | 12.9  | 11.2  | 16.8    |





#80

Benzo(a)anthracene

Concen: 10.98 ng

RT: 13.99 min Scan# 1085

Delta R.T. -0.02 min

Lab File: BF087747.D

Acq: 6 Jun 2016 12:44

Instrument :

BNA\_F

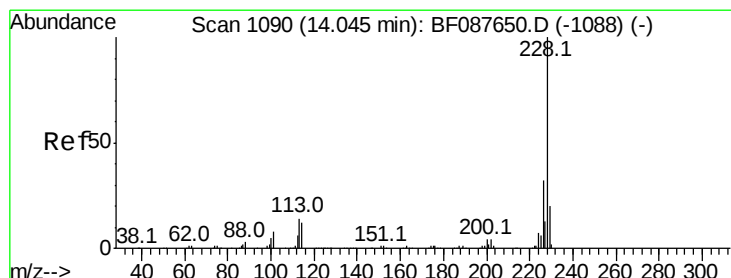
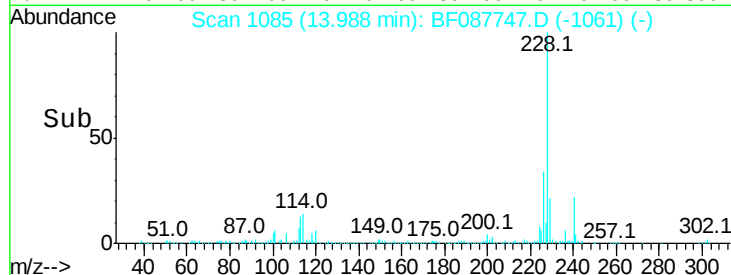
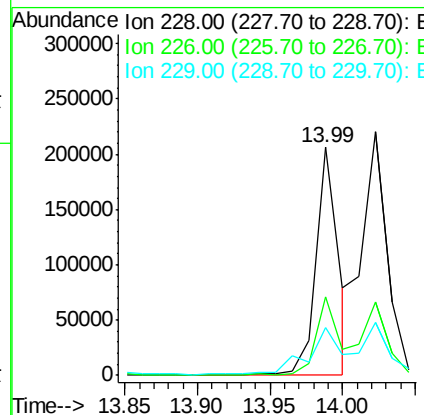
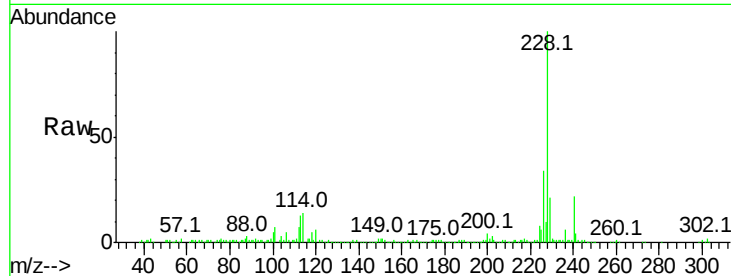
ClientSampleId :

CHS-STA-1672(0-4)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 220700 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 34.2  | 22.3  | 33.5#  |
| 229       | 20.9  | 16.0  | 24.0   |

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#82

Chrysene

Concen: 13.18 ng m

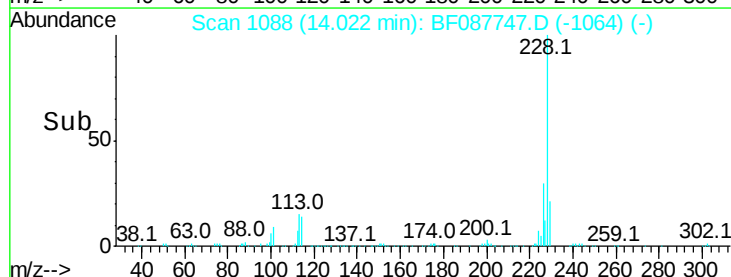
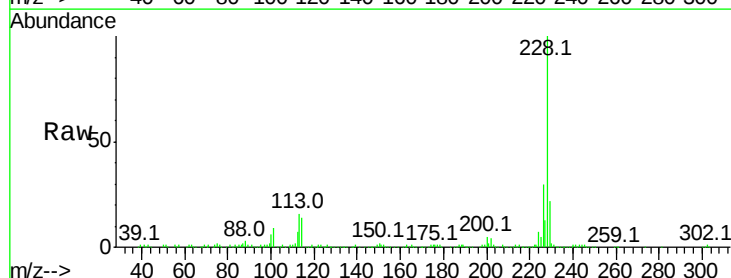
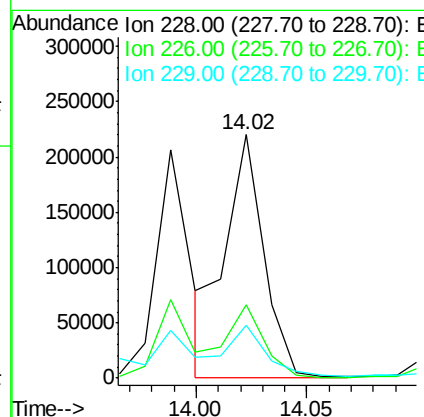
RT: 14.02 min Scan# 1088

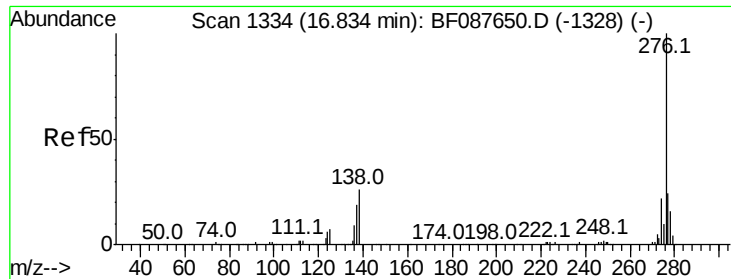
Delta R.T. -0.02 min

Lab File: BF087747.D

Acq: 6 Jun 2016 12:44

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 263628 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.1  | 25.4  | 38.2   |
| 229       | 22.0  | 16.3  | 24.5   |





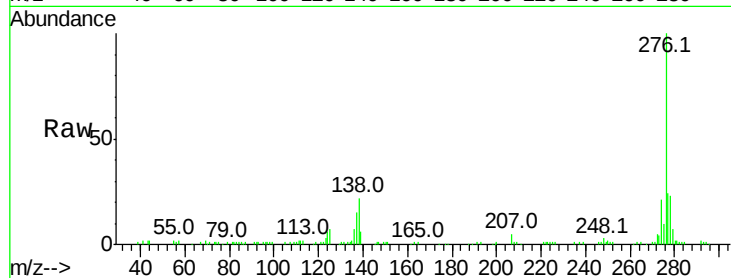
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 9.10 ng  
RT: 16.81 min Scan# 1332  
Delta R.T. -0.02 min  
Lab File: BF087747.D  
Acq: 6 Jun 2016 12:44

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1672(0-4)

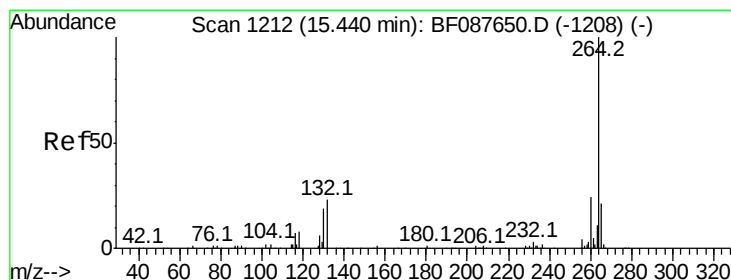
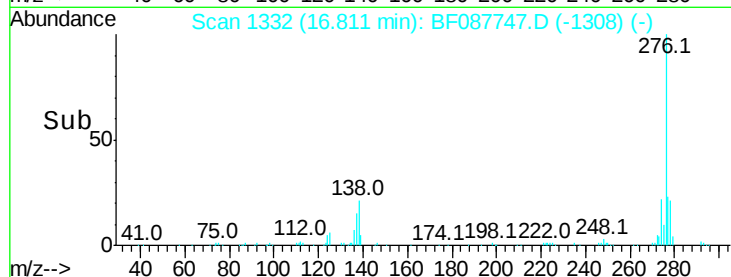
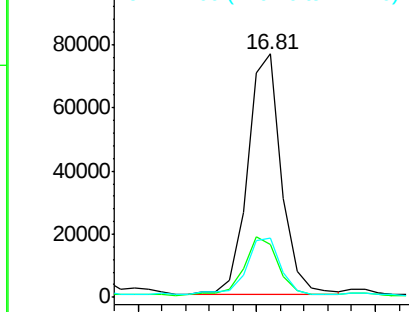
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 25.0  | 0.0        | 0.0#  |
| 277     | 24.9  | 0.0        | 0.0#  |

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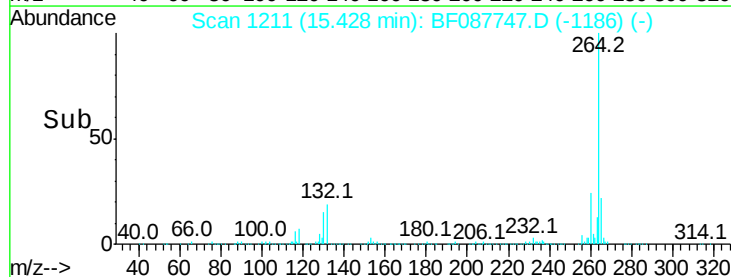
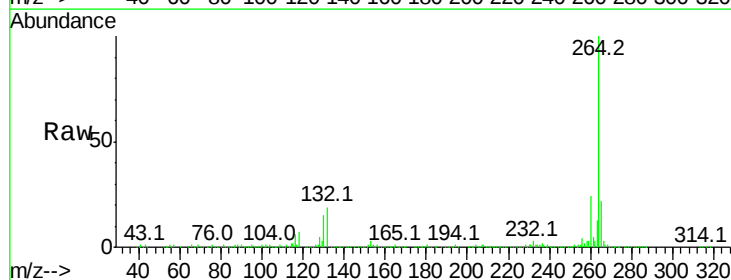
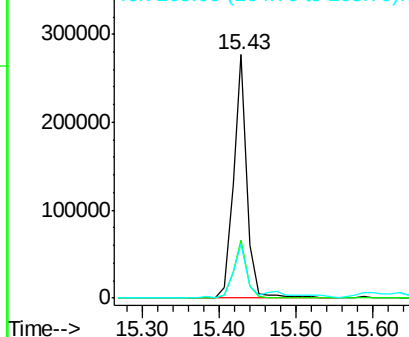
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

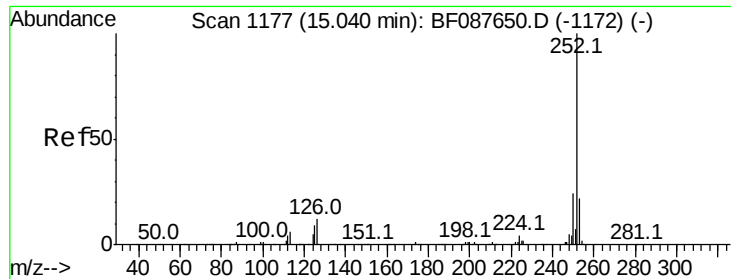


#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.43 min Scan# 1211  
Delta R.T. -0.01 min  
Lab File: BF087747.D  
Acq: 6 Jun 2016 12:44

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 264     | 100   |            |       |
| 260     | 23.6  | 19.2       | 28.8  |
| 265     | 22.4  | 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





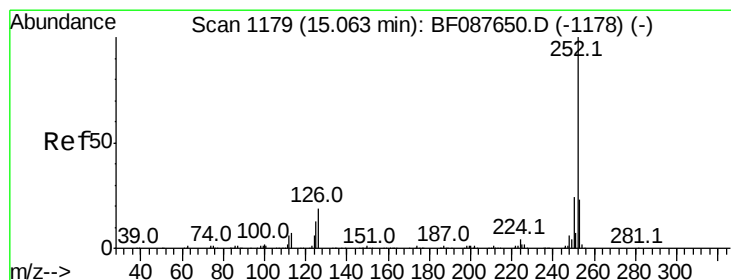
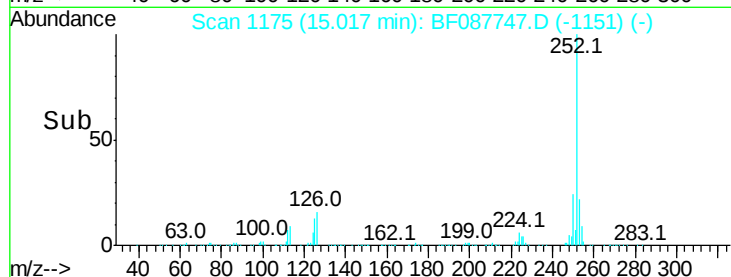
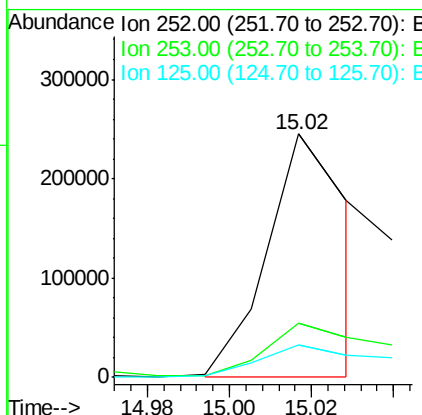
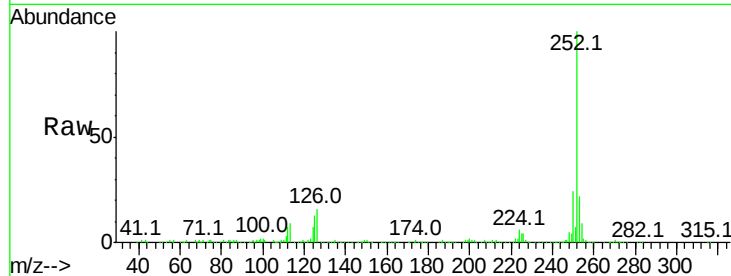
#87  
Benzo(b)fluoranthene  
Concen: 15.22 ng m  
RT: 15.02 min Scan# 1175  
Delta R.T. -0.02 min  
Lab File: BF087747.D  
Acq: 6 Jun 2016 12:44

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1672(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 17.4  | 26.2  |
| 125     | 13.4  | 7.1   | 10.7  |

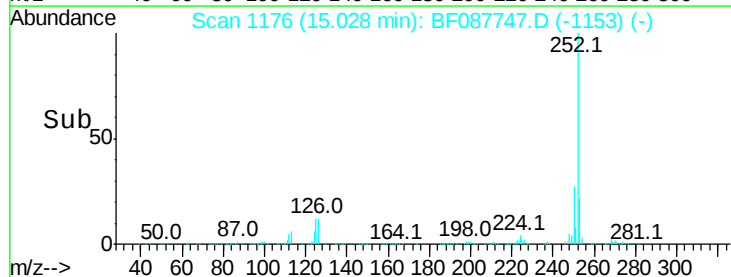
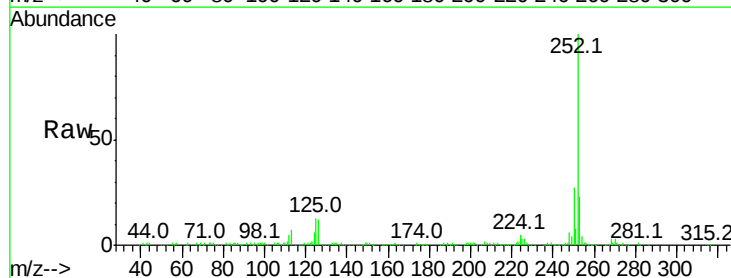
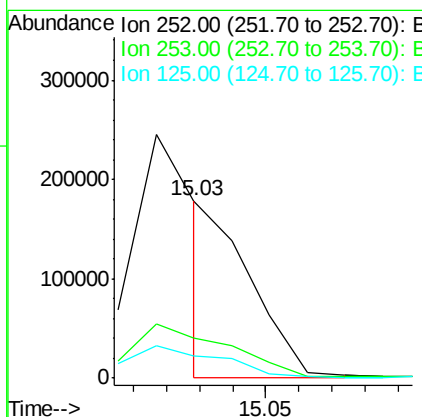
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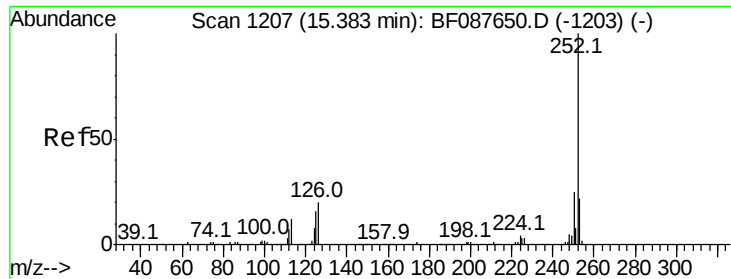
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#88  
Benzo(k)fluoranthene  
Concen: 7.80 ng m  
RT: 15.03 min Scan# 1176  
Delta R.T. -0.03 min  
Lab File: BF087747.D  
Acq: 6 Jun 2016 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 18.0  | 27.0  |
| 125     | 12.6  | 11.2  | 16.8  |





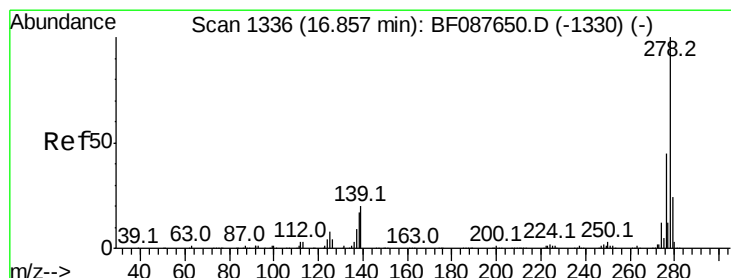
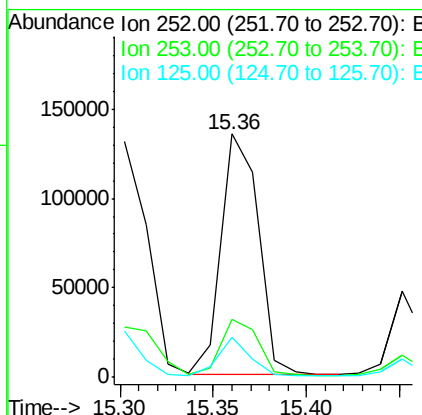
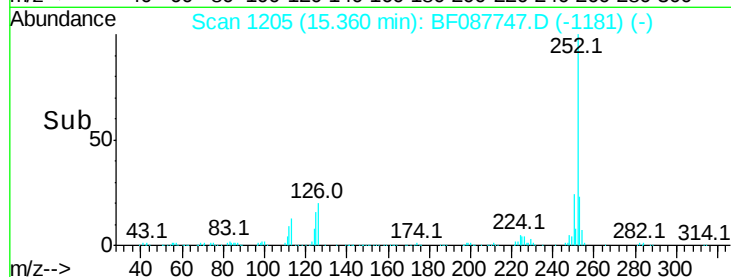
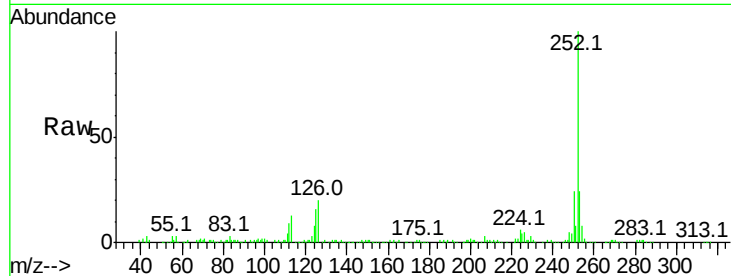
#89  
Benzo(a)pyrene  
Concen: 10.14 ng  
RT: 15.36 min Scan# 1205  
Delta R.T. -0.02 min  
Lab File: BF087747.D  
Acq: 6 Jun 2016 12:44

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1672(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.9  | 26.9  |
| 125     | 16.2  | 12.5  | 18.7  |

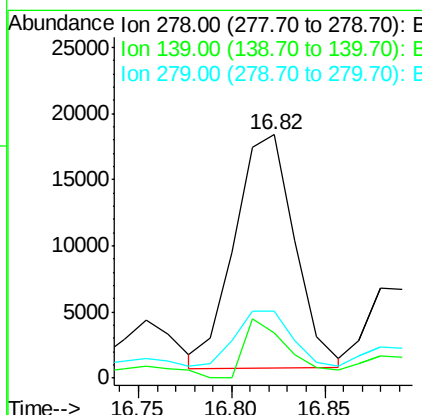
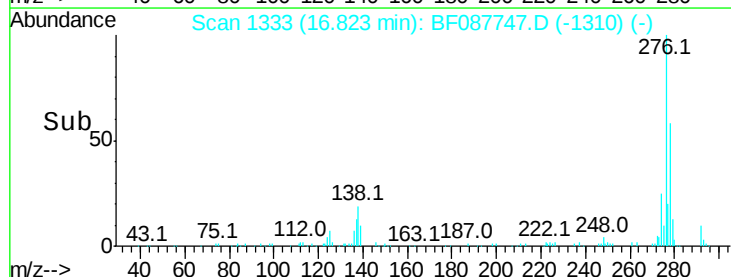
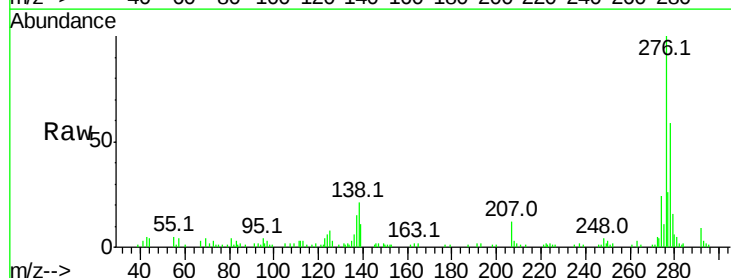
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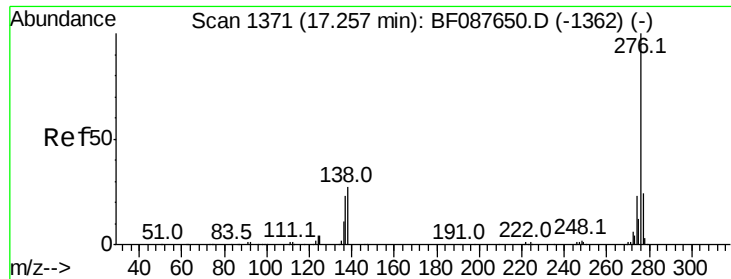
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#90  
Dibenzo(a,h)anthracene  
Concen: 2.51 ng  
RT: 16.82 min Scan# 1333  
Delta R.T. -0.03 min  
Lab File: BF087747.D  
Acq: 6 Jun 2016 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.4  | 15.7  | 23.5  |
| 279     | 27.6  | 19.4  | 29.2  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 8.27 ng  
 RT: 17.22 min Scan# 1368  
 Delta R.T. -0.03 min  
 Lab File: BF087747.D  
 Acq: 6 Jun 2016 12:44

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1672(0-4)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 132424 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.1  | 18.9  | 28.3   |
| 138       | 25.8  | 21.4  | 32.2   |

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