

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092616\  
 Data File : BF090237.D  
 Acq On : 26 Sep 2016 22:29  
 Operator : UM/SJ  
 Sample : H4898-01RE  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CAM-SELECTFILLRE

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Quant Time: Sep 27 01:46:04 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 26 15:58:38 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.48  | 152  | 161391   | 20.00 | ng    | 0.00        |
| 21) Naphthalene-d8          | 7.77  | 136  | 617858   | 20.00 | ng    | 0.00        |
| 38) Acenaphthene-d10        | 9.51  | 164  | 287674   | 20.00 | ng    | 0.00        |
| 63) Phenanthrene-d10        | 10.98 | 188  | 400554   | 20.00 | ng    | 0.00        |
| 75) Chrysene-d12            | 13.59 | 240  | 287054   | 20.00 | ng    | -0.01       |
| 86) Perylene-d12            | 14.91 | 264  | 224194   | 20.00 | ng    | 0.00        |
| System Monitoring Compounds |       |      |          |       |       |             |
| 5) 2-Fluorophenol           | 5.04  | 112  | 228215   | 23.05 | ng    | 0.01        |
| 7) Phenol-d6                | 6.14  | 99   | 876472   | 71.68 | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 7.05  | 82   | 678410   | 63.65 | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol    | 10.30 | 330  | 2429     | 0.98  | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 8.86  | 172  | 1299135  | 88.66 | ng    | 0.00        |
| 78) Terphenyl-d14           | 12.56 | 244  | 780250   | 69.01 | ng    | 0.00        |
| Target Compounds            |       |      |          |       |       |             |
| 10) Phenol                  | 6.15  | 94   | 91788    | 6.35  | ng    | Qvalue # 69 |
| 49) Dimethylphthalate       | 9.24  | 163  | 360757   | 19.69 | ng    | 99          |
| 70) Phenanthrene            | 11.01 | 178  | 120117   | 6.41  | ng    | 98          |
| 74) Fluoranthene            | 12.17 | 202  | 131451   | 6.54  | ng    | 97          |
| 77) Pyrene                  | 12.40 | 202  | 116745   | 5.94  | ng    | 97          |
| 80) Benzo(a)anthracene      | 13.58 | 228  | 61748    | 4.00  | ng    | # 91        |
| 82) Chrysene                | 13.61 | 228  | 45759m   | 3.04  | ng    |             |
| 87) Benzo(b)fluoranthene    | 14.57 | 252  | 47779m   | 3.85  | ng    |             |
| 88) Benzo(k)fluoranthene    | 14.58 | 252  | 23624m   | 2.03  | ng    |             |
| 89) Benzo(a)pyrene          | 14.87 | 252  | 35286    | 3.02  | ng    | # 62        |
| 91) Benzo(g,h,i)perylene    | 16.40 | 276  | 20272    | 2.27  | ng    | # 81        |

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

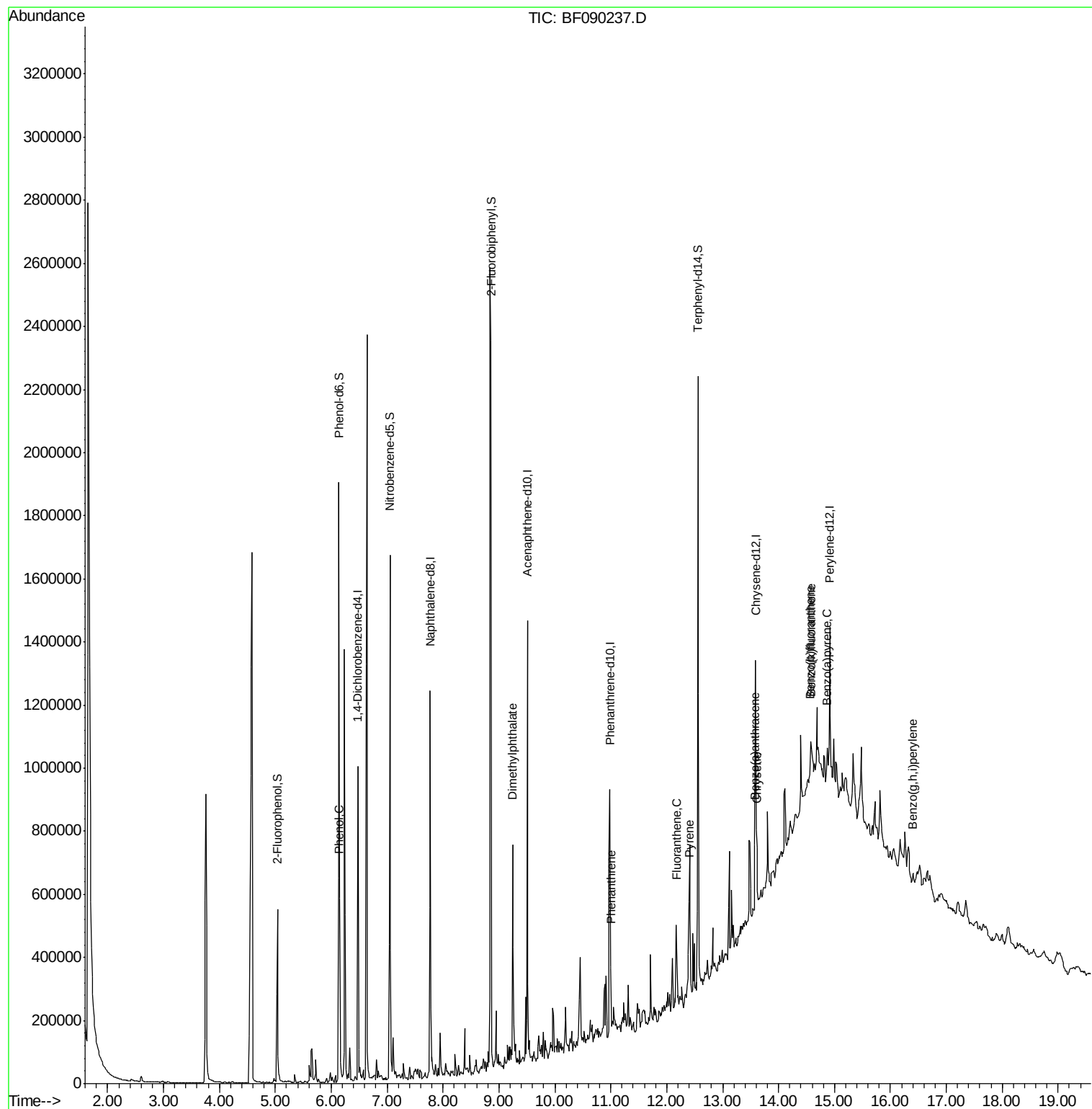
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092616\  
Data File : BF090237.D  
Acq On : 26 Sep 2016 22:29  
Operator : UM/SJ  
Sample : H4898-01RE  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

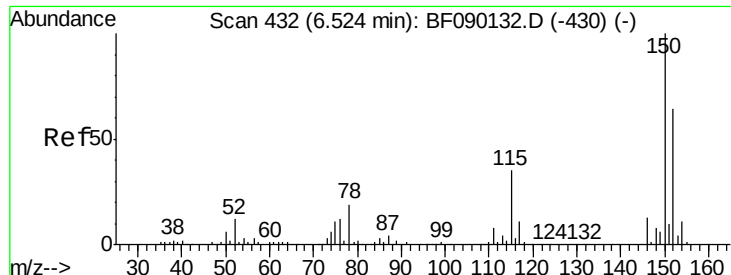
Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Time: Sep 27 01:46:04 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Sep 26 15:58:38 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.48 min Scan# 428

Delta R.T. 0.00 min

Lab File: BF090237.D

Acq: 26 Sep 2016 22:29

Instrument :

BNA\_F

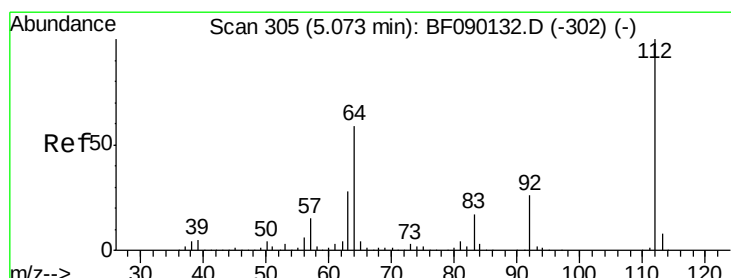
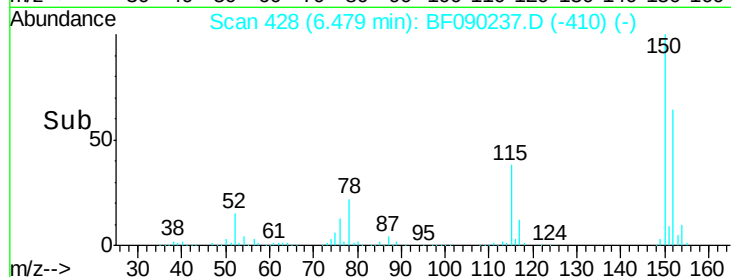
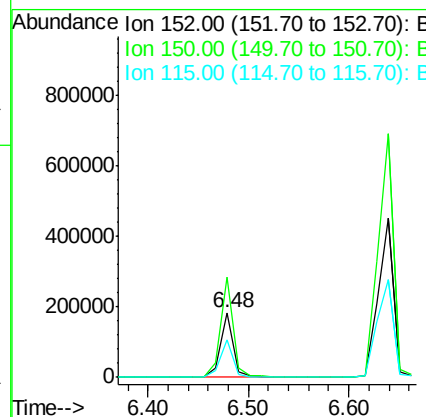
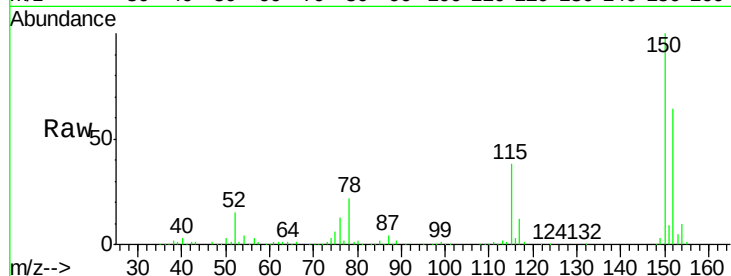
ClientSampleId :

CAM-SELECTFILLRE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 161391 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 156.0 | 128.9 | 193.3  |
| 115       | 58.9  | 55.5  | 83.3   |

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#5

2-Fluorophenol

Concen: 23.05 ng

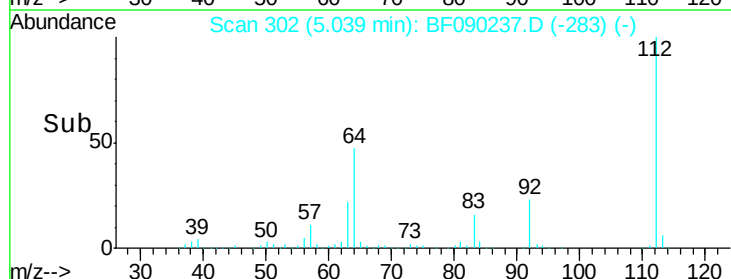
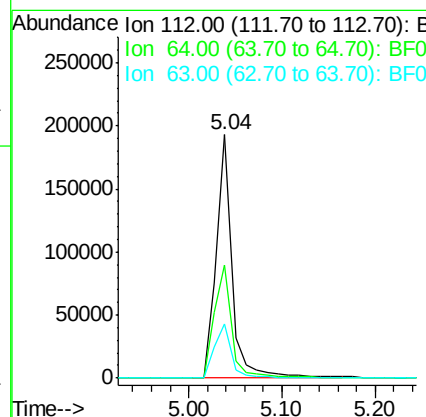
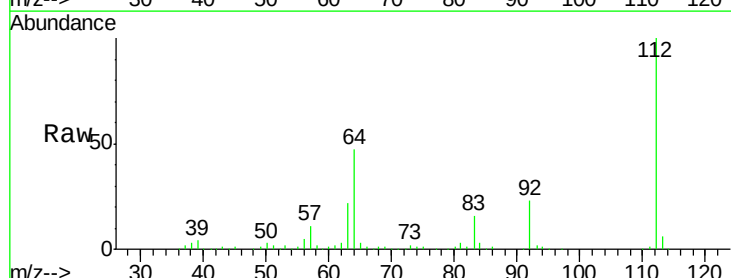
RT: 5.04 min Scan# 302

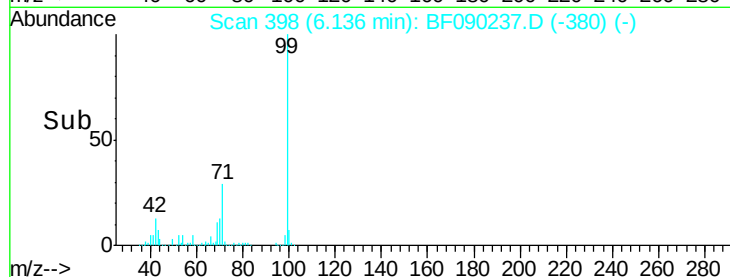
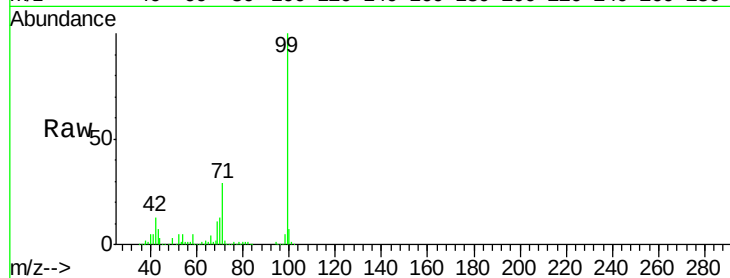
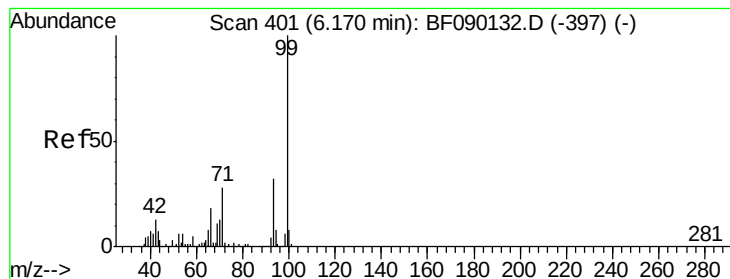
Delta R.T. 0.01 min

Lab File: BF090237.D

Acq: 26 Sep 2016 22:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 228215 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 46.6  | 39.8  | 59.6   |
| 63        | 22.1  | 18.9  | 28.3   |





#7

Phenol-d6

Concen: 71.68 ng

RT: 6.14 min Scan# 398

Delta R.T. 0.00 min

Lab File: BF090237.D

Acq: 26 Sep 2016 22:29

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 876472 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 13.2  | 10.6  | 15.8   |
| 71       | 29.4  | 23.0  | 34.6   |

Instrument :

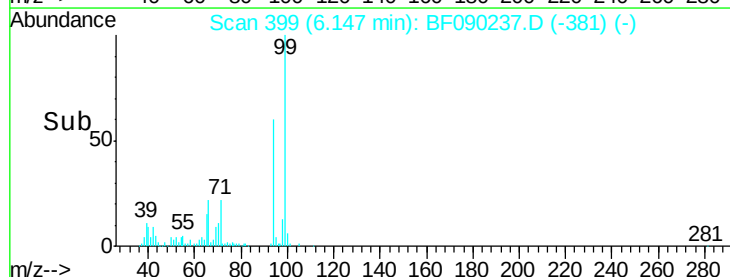
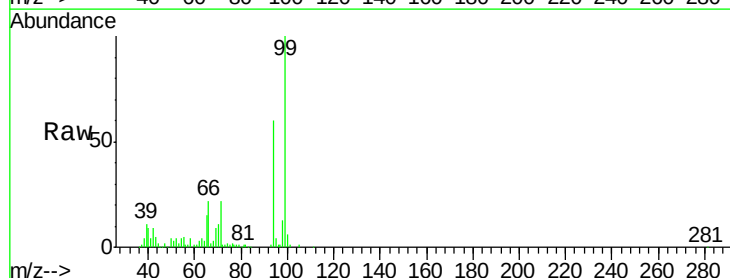
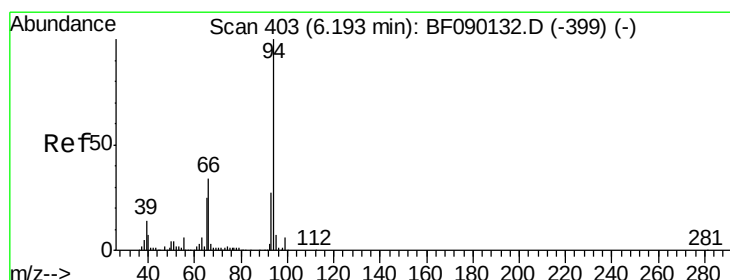
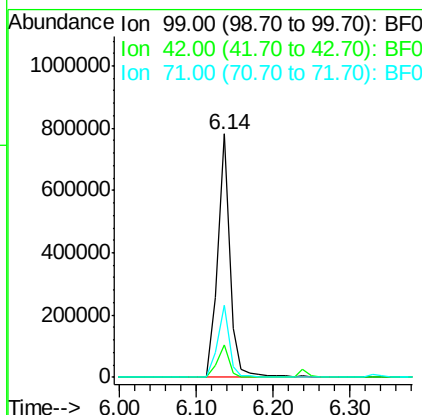
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#10

Phenol

Concen: 6.35 ng

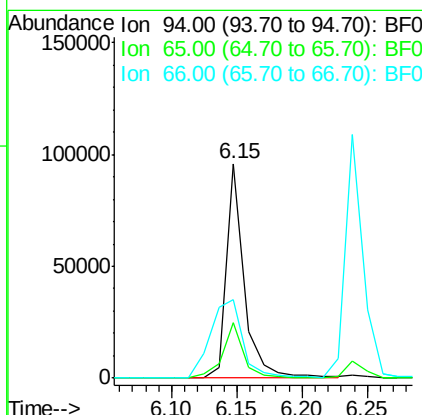
RT: 6.15 min Scan# 399

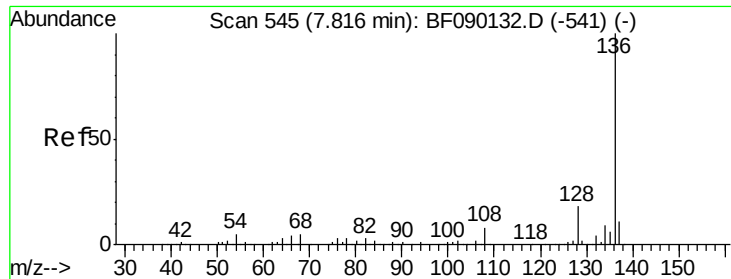
Delta R.T. 0.00 min

Lab File: BF090237.D

Acq: 26 Sep 2016 22:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 91788 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 25.7  | 20.6  | 60.6  |
| 66       | 36.6  | 45.1  | 85.1# |





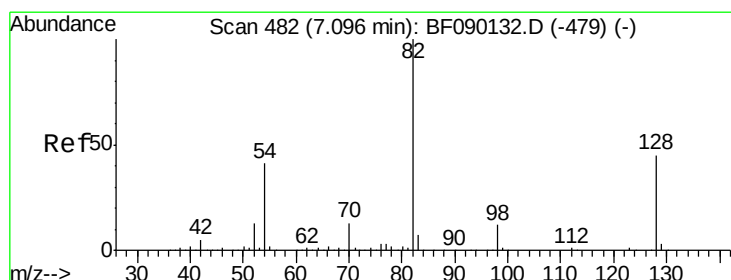
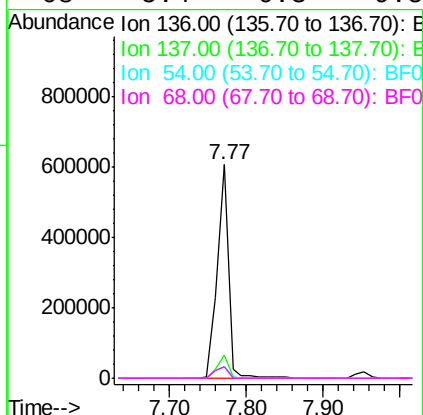
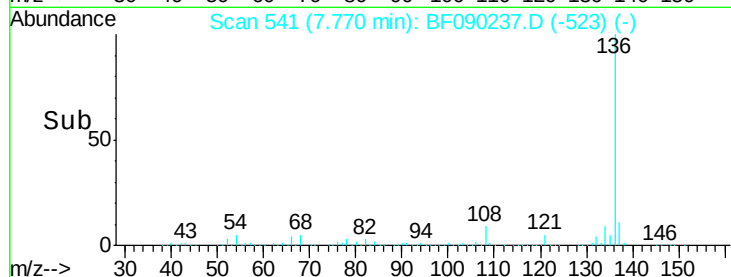
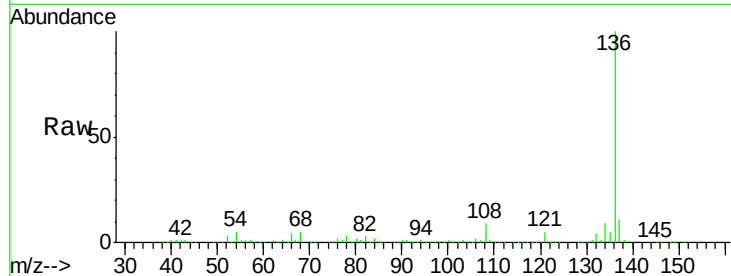
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.77 min Scan# 541  
Delta R.T. 0.00 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

Instrument :  
BNA\_F  
ClientSampleId :  
CAM-SELECTFILLRE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 617858 |       |       |
| 137     | 10.7  | 9.0    | 13.4  |       |
| 54      | 5.5   | 6.4    | 9.6   |       |
| 68      | 5.4   | 6.3    | 9.5   |       |

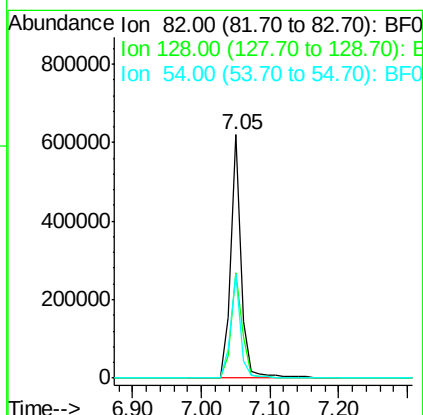
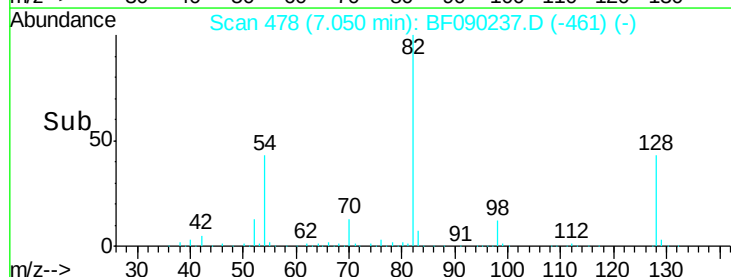
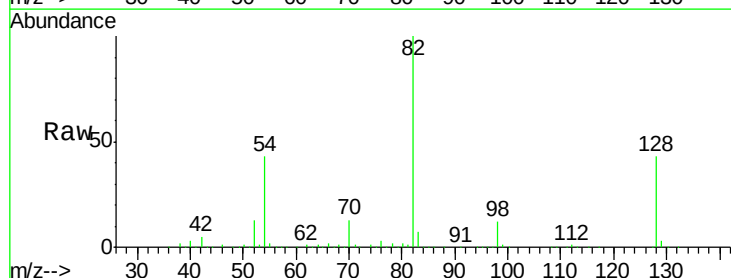
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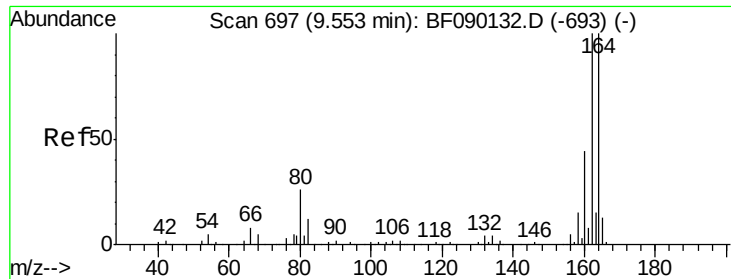
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#23  
Nitrobenzene-d5  
Concen: 63.65 ng  
RT: 7.05 min Scan# 478  
Delta R.T. -0.01 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 678410 |       |       |
| 128     | 43.4  | 37.5   | 56.3  |       |
| 54      | 42.7  | 31.9   | 47.9  |       |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.51 min Scan# 693

Delta R.T. 0.00 min

Lab File: BF090237.D

Acq: 26 Sep 2016 22:29

Instrument :

BNA\_F

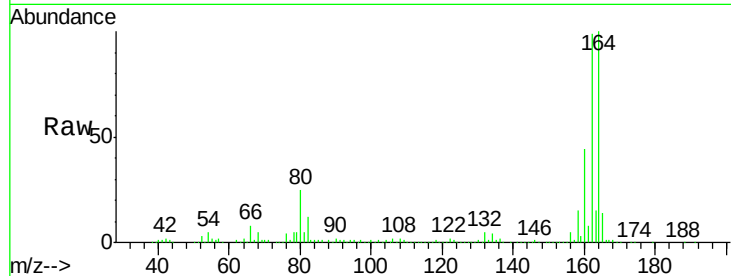
ClientSampleId :

CAM-SELECTFILLRE

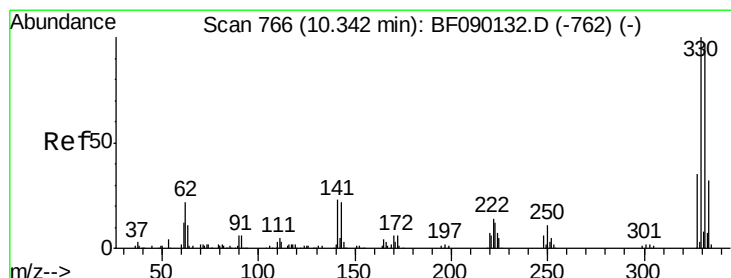
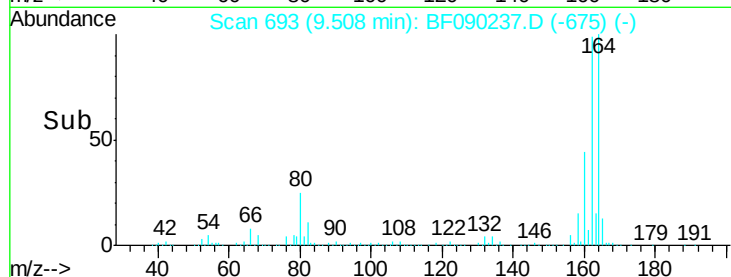
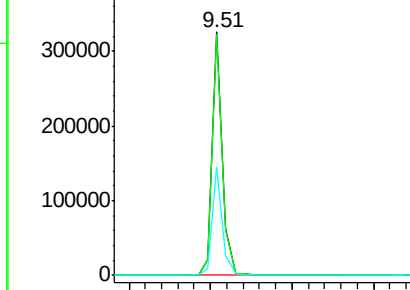
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 164   | Resp: | 287674 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 99.2  | 81.4  | 122.2  |
| 160       | 44.2  | 36.6  | 54.8   |

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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: 0.98 ng

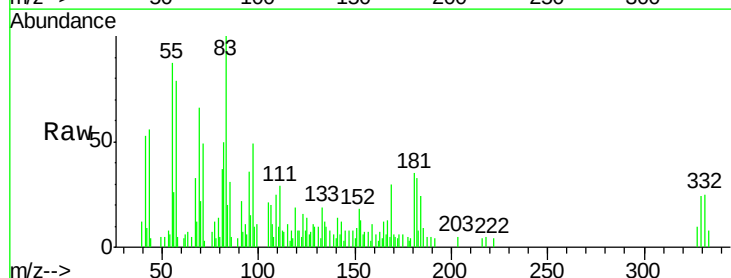
RT: 10.30 min Scan# 762

Delta R.T. 0.00 min

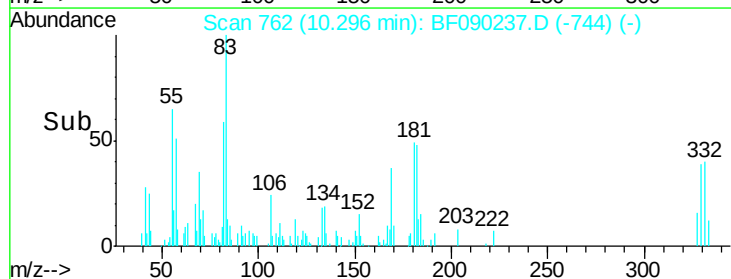
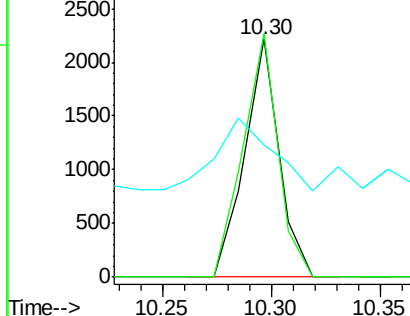
Lab File: BF090237.D

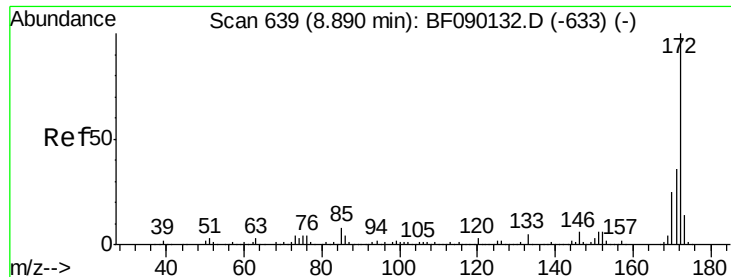
Acq: 26 Sep 2016 22:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 2429  |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 104.0 | 78.1  | 117.1 |
| 141       | 55.5  | 23.9  | 35.9# |



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





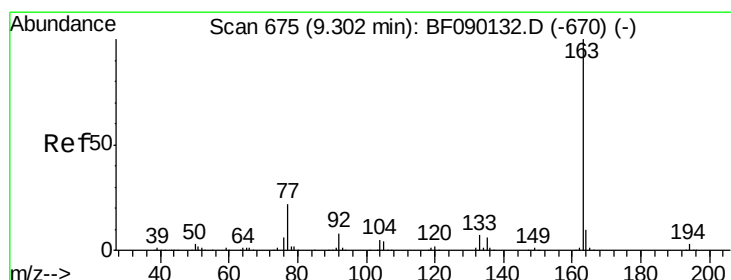
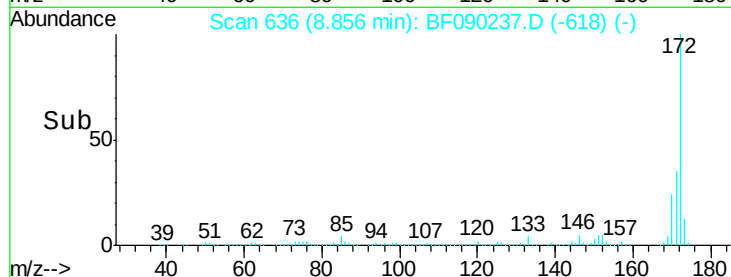
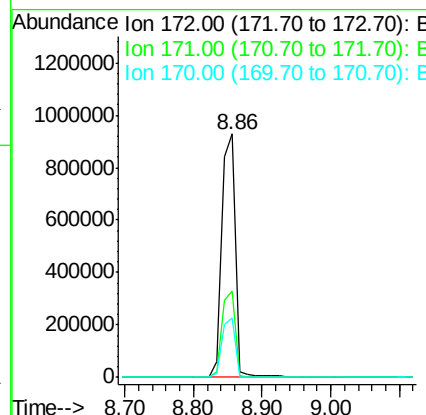
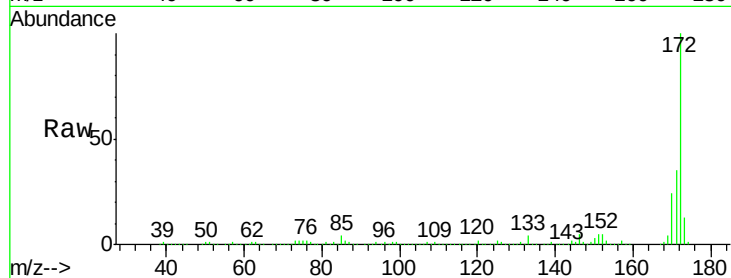
#44  
2-Fluorobiphenyl  
Concen: 88.66 ng  
RT: 8.86 min Scan# 636  
Delta R.T. 0.00 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

Instrument :  
BNA\_F  
ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.3  | 29.2  | 43.8  |
| 170     | 24.3  | 19.8  | 29.8  |

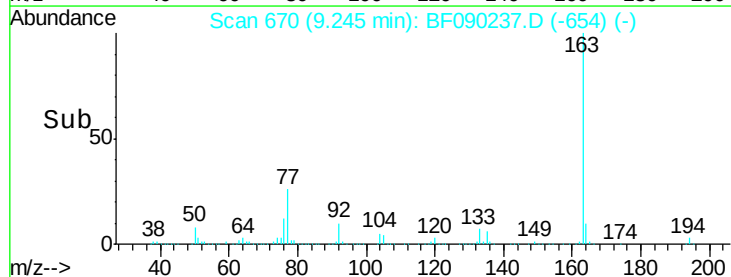
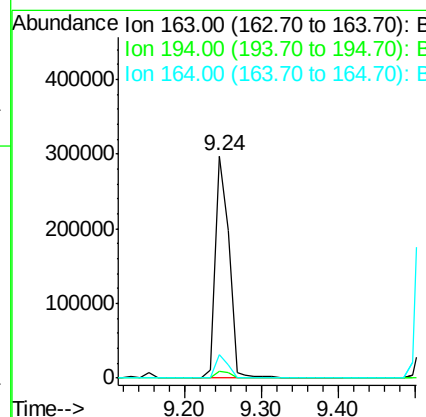
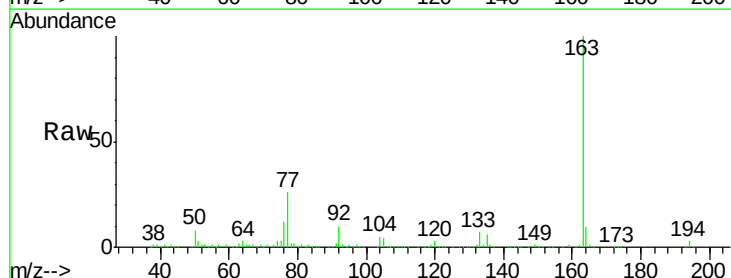
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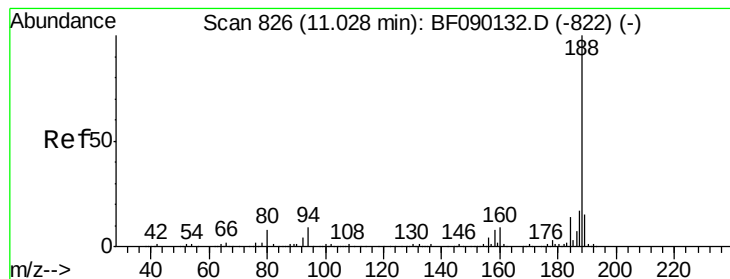
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#49  
Dimethylphthalate  
Concen: 19.69 ng  
RT: 9.24 min Scan# 670  
Delta R.T. -0.02 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 2.9   | 2.8   | 4.2   |
| 164     | 10.4  | 8.1   | 12.1  |





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 10.98 min Scan# 822

Delta R.T. 0.00 min

Lab File: BF090237.D

Acq: 26 Sep 2016 22:29

Instrument :

BNA\_F

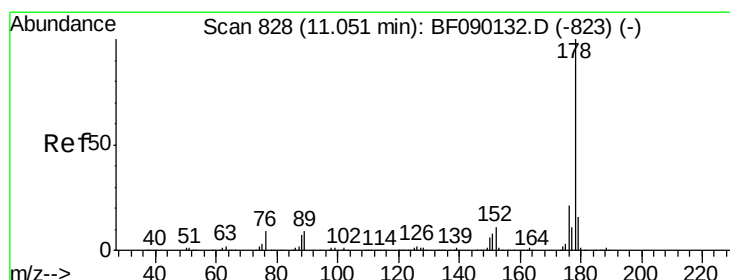
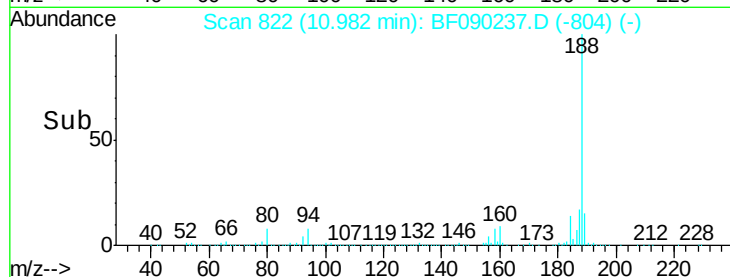
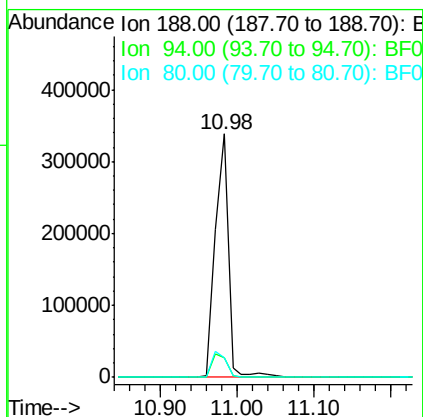
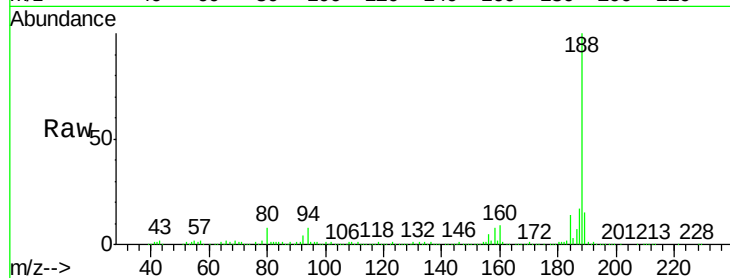
ClientSampleId :

CAM-SELECTFILLRE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 400554 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.1   | 10.5  | 15.7#  |
| 80        | 7.8   | 11.2  | 16.8#  |

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#70

Phenanthrene

Concen: 6.41 ng

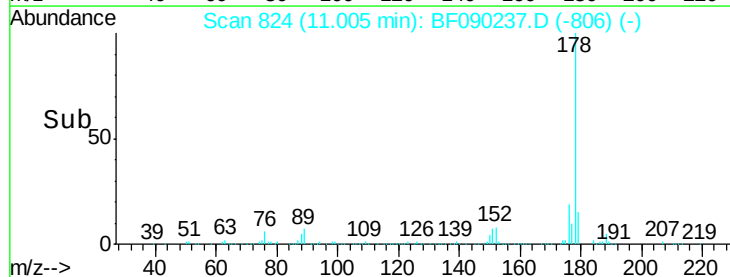
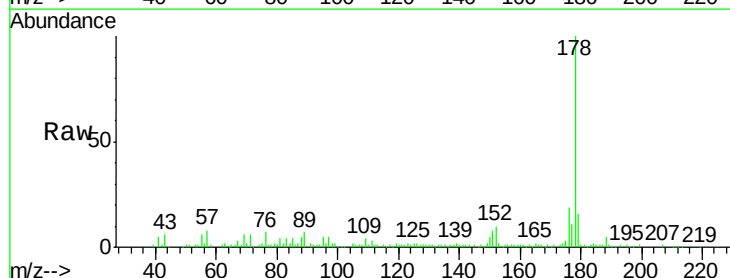
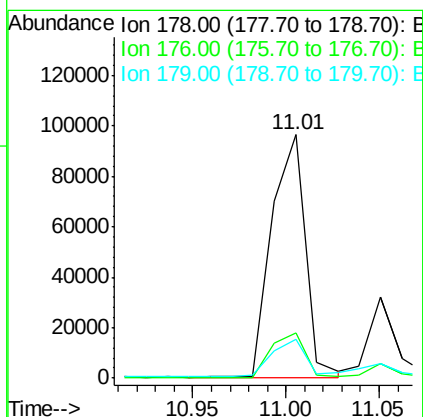
RT: 11.01 min Scan# 824

Delta R.T. 0.00 min

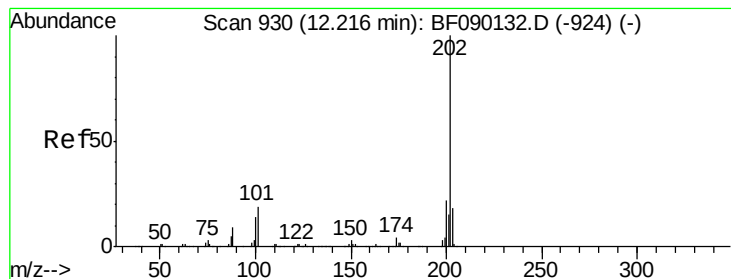
Lab File: BF090237.D

Acq: 26 Sep 2016 22:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 120117 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.8  | 15.9  | 23.9   |
| 179       | 15.7  | 12.9  | 19.3   |







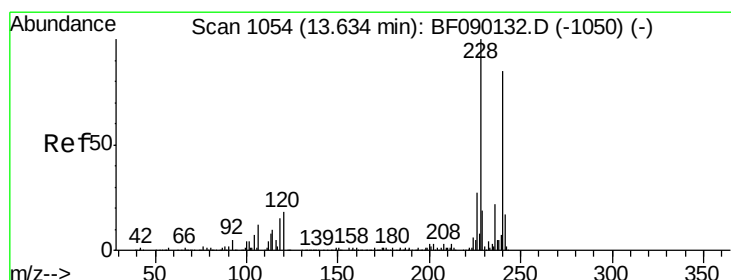
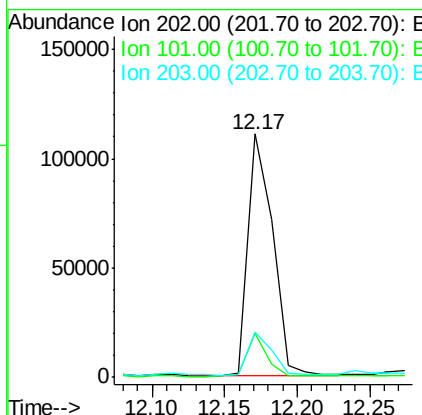
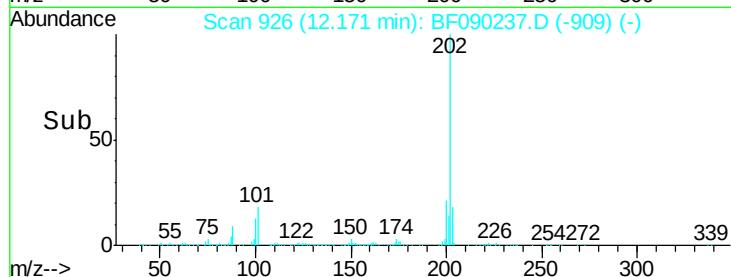
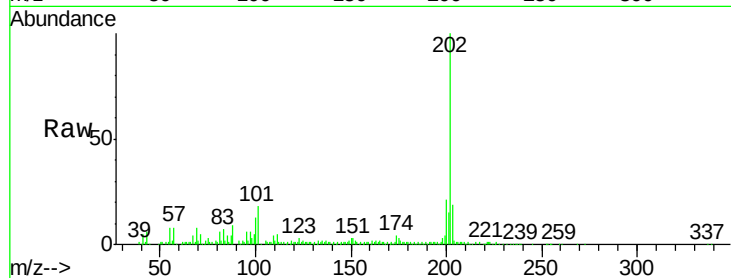
#74  
Fluoranthene  
Concen: 6.54 ng  
RT: 12.17 min Scan# 926  
Delta R.T. -0.01 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

Instrument :  
BNA\_F  
ClientSampleId :  
CAM-SELECTFILLRE

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 18.2  | 0.0        | 36.1  |
| 203     | 18.6  | 0.0        | 38.2  |

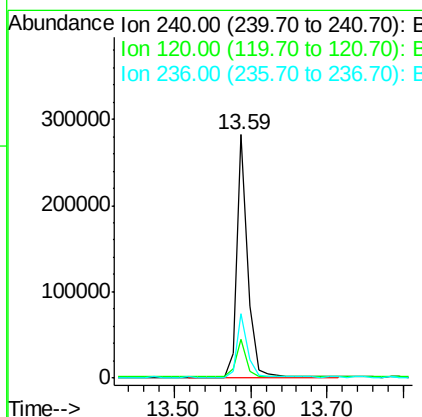
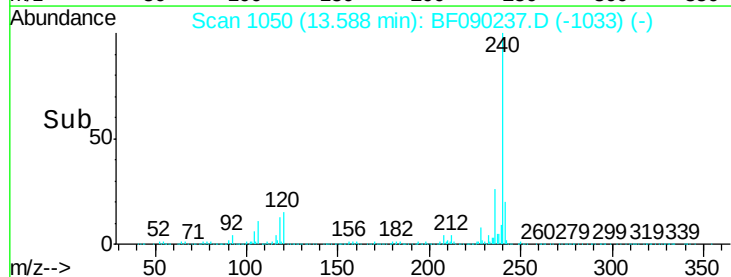
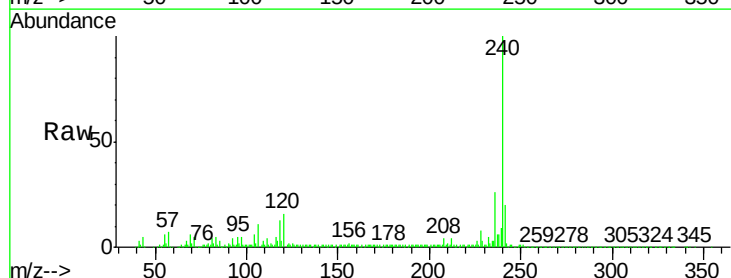
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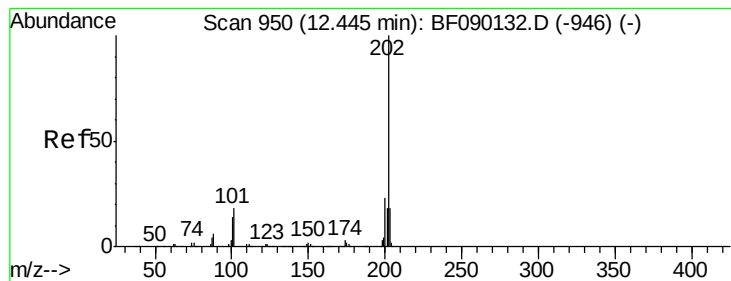
sohil  
9/27/2016 1:06:37 PM



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.59 min Scan# 1050  
Delta R.T. -0.01 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 15.9  | 10.6       | 16.0  |
| 236     | 26.3  | 21.6       | 32.4  |





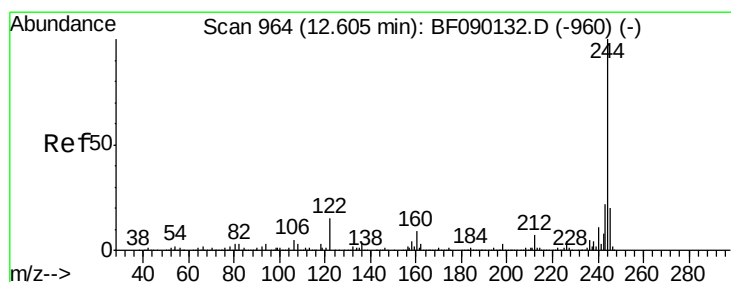
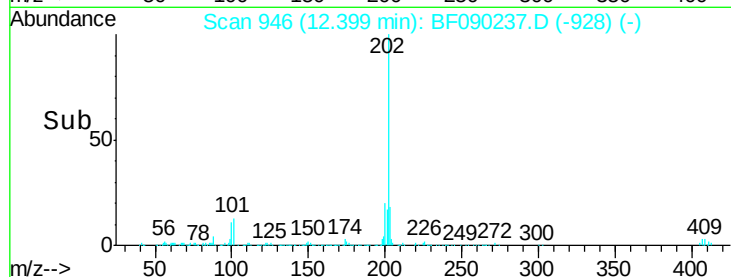
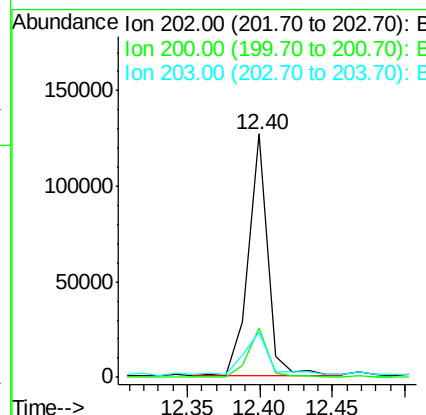
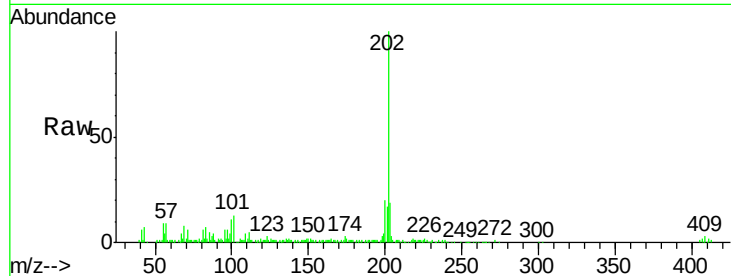
#77  
Pvrene  
Concen: 5.94 ng  
RT: 12.40 min Scan# 946  
Delta R.T. 0.00 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

Instrument :  
BNA\_F  
ClientSampleId :  
CAM-SELECTFILLRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.4  | 17.9  | 26.9  |
| 203     | 18.5  | 14.2  | 21.4  |

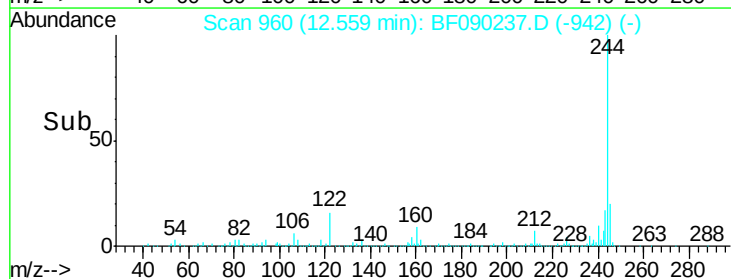
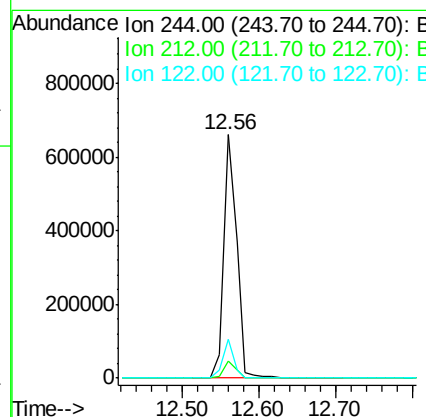
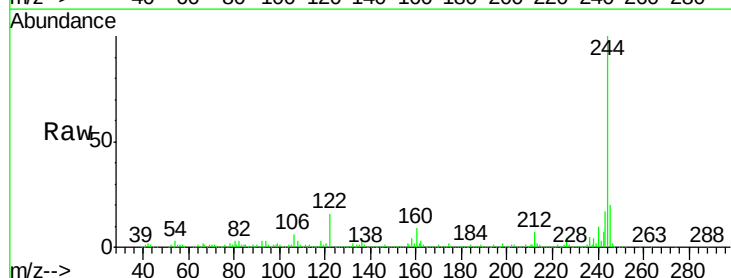
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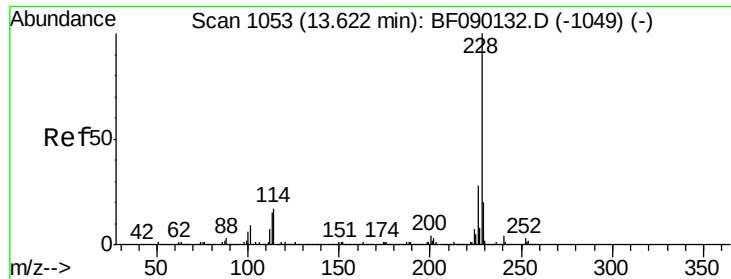
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#78  
Terphenyl-d14  
Concen: 69.01 ng  
RT: 12.56 min Scan# 960  
Delta R.T. 0.00 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.2   | 5.8   | 8.8   |
| 122     | 16.1  | 9.4   | 14.0  |





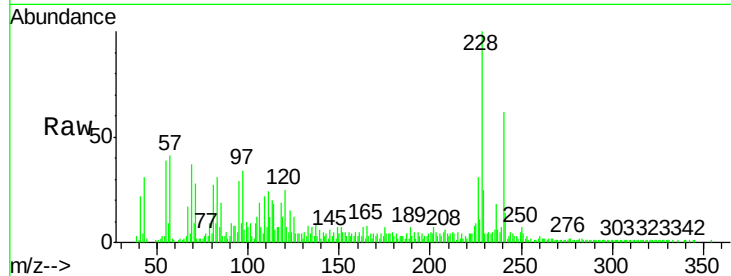
#80  
Benzo(a)anthracene  
Concen: 4.00 ng  
RT: 13.58 min Scan# 1049  
Delta R.T. -0.01 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

Instrument :  
BNA\_F  
ClientSampleId :  
CAM-SELECTFILLRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.5  | 22.0  | 33.0  |
| 229     | 24.8  | 16.2  | 24.2  |

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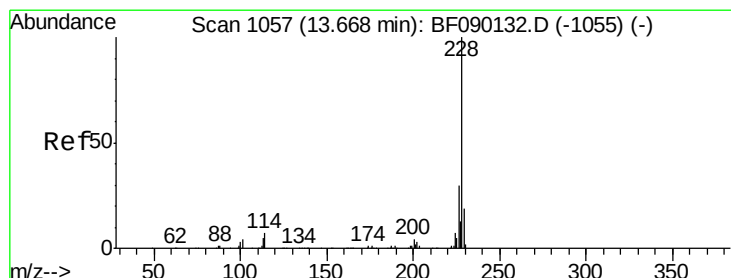
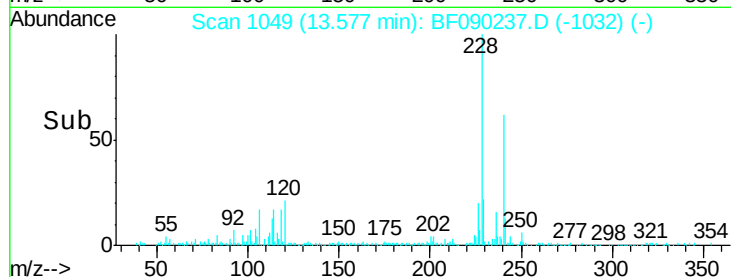
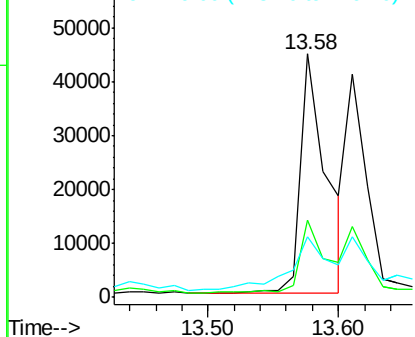


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82  
Chrysene  
Concen: 3.04 ng m  
RT: 13.61 min Scan# 1052  
Delta R.T. -0.01 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

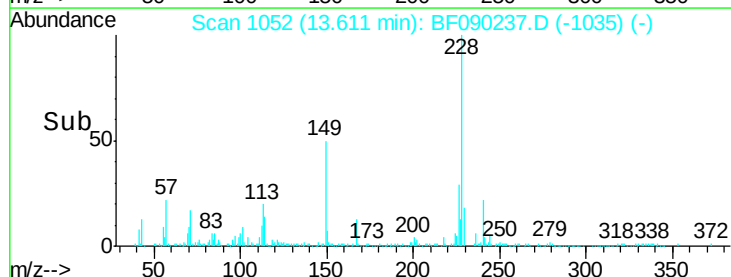
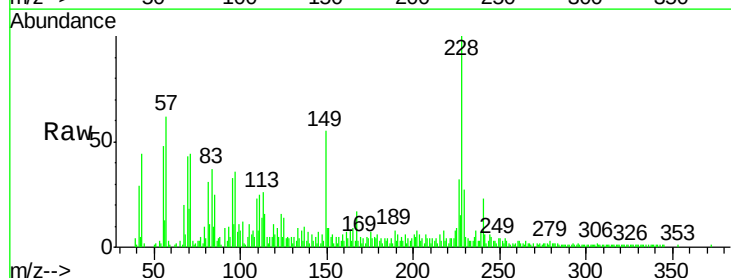
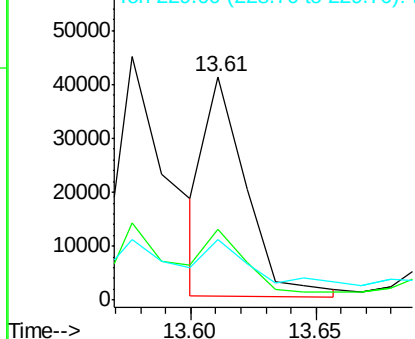
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.7  | 24.6  | 37.0  |
| 229     | 27.1  | 16.2  | 24.4  |

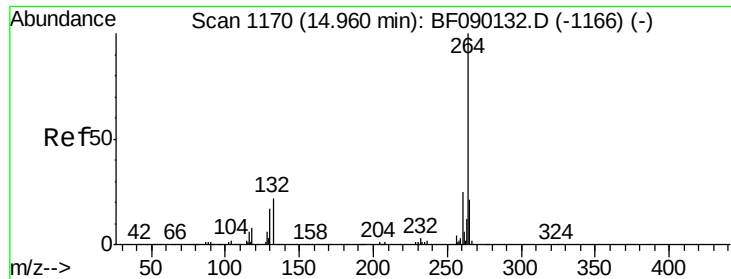
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





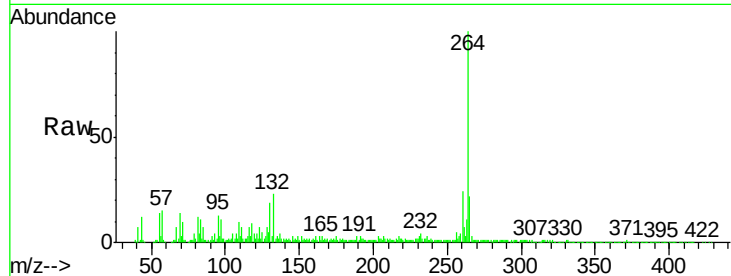
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 14.91 min Scan# 1166  
Delta R.T. 0.00 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

Instrument :  
BNA\_F  
ClientSampleId :  
CAM-SELECTFILLRE

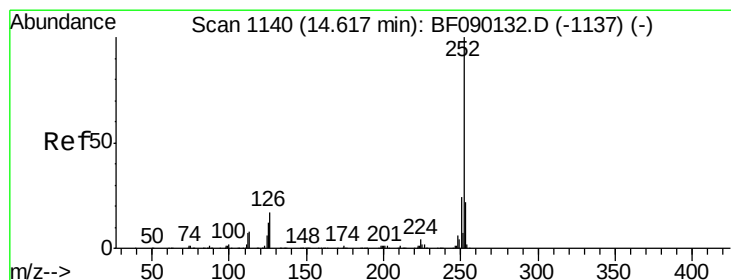
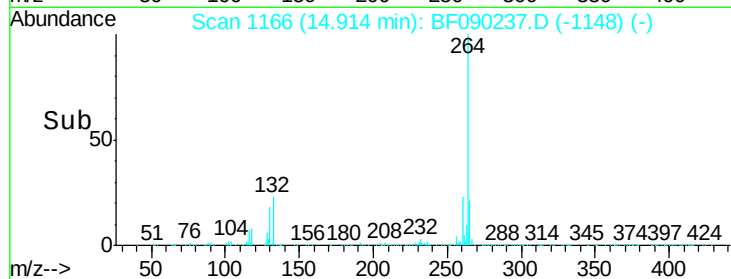
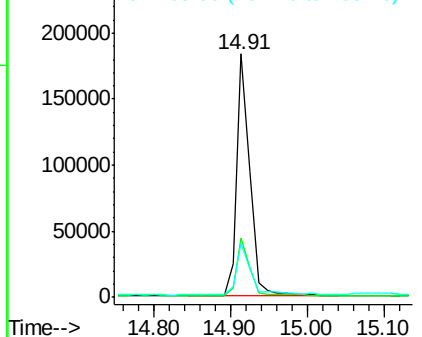
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.5  | 29.3  |
| 265     | 22.3  | 17.0  | 25.4  |

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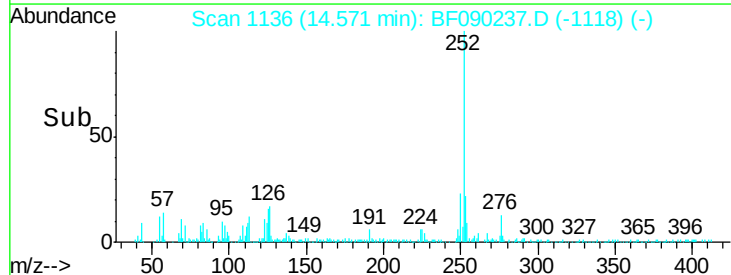
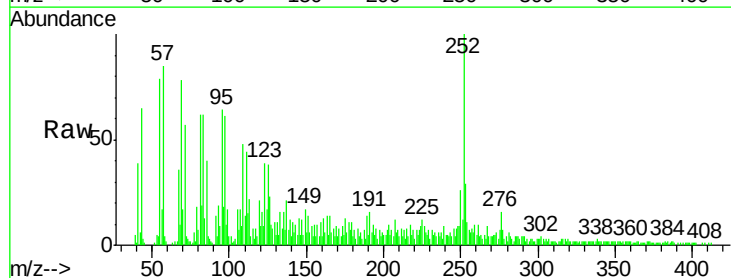
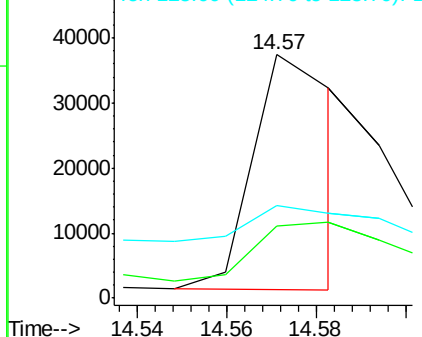
Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

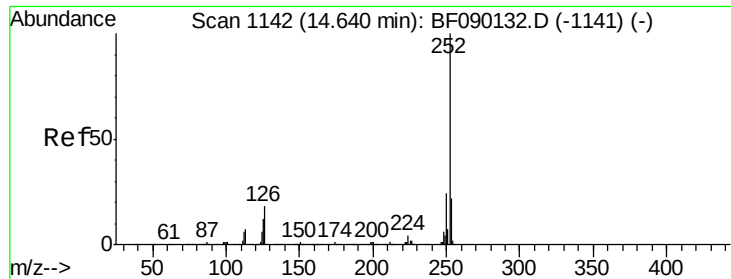


#87  
Benzo(b)fluoranthene  
Concen: 3.85 ng m  
RT: 14.57 min Scan# 1136  
Delta R.T. 0.00 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.4  | 17.9  | 26.9# |
| 125     | 37.8  | 12.7  | 19.1# |

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





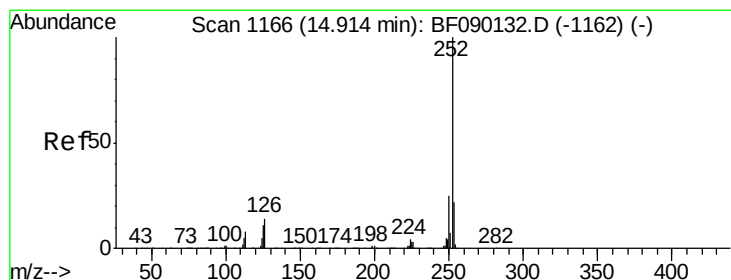
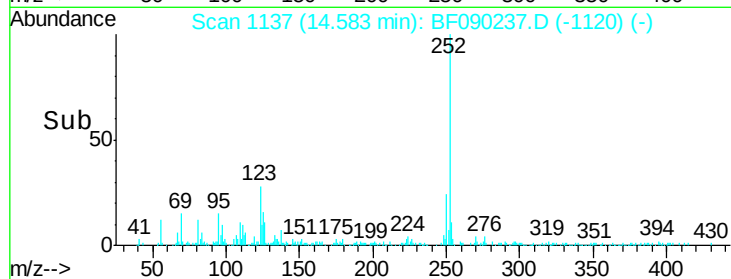
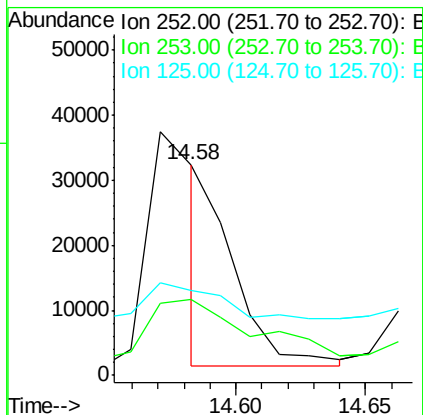
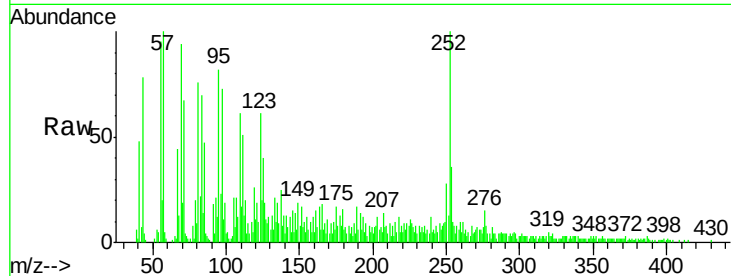
#88  
Benzo(k)fluoranthene  
Concen: 2.03 ng m  
RT: 14.58 min Scan# 1137  
Delta R.T. -0.01 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

Instrument :  
BNA\_F  
ClientSampleId :  
CAM-SELECTFILLRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 36.0  | 17.8  | 26.8# |
| 125     | 40.4  | 7.8   | 11.6# |

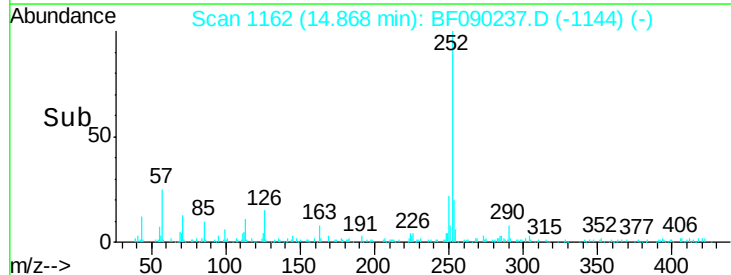
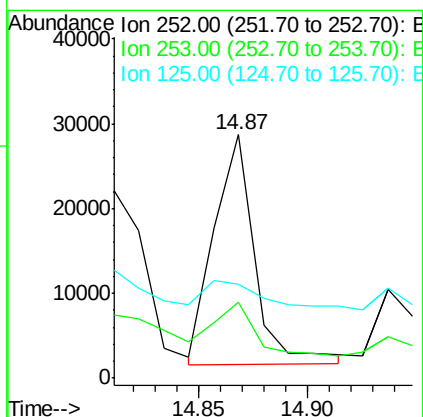
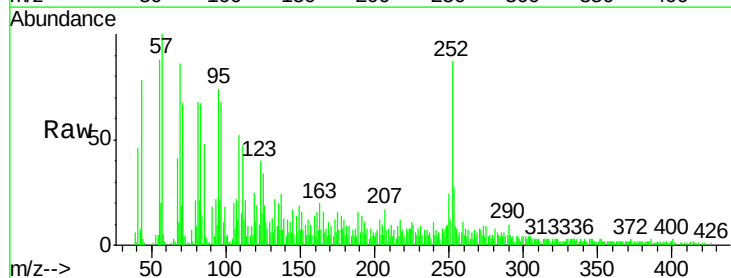
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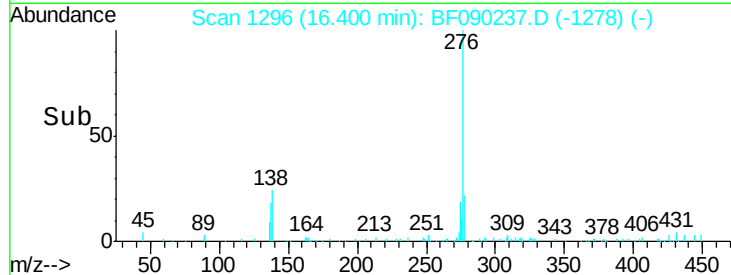
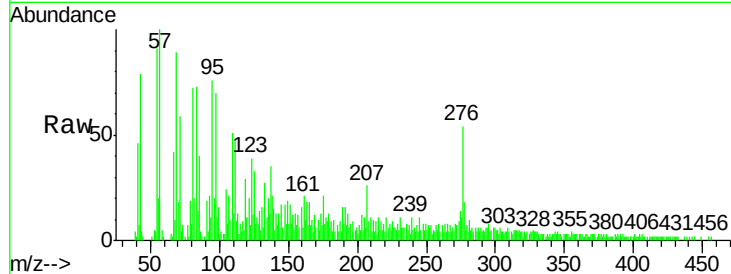
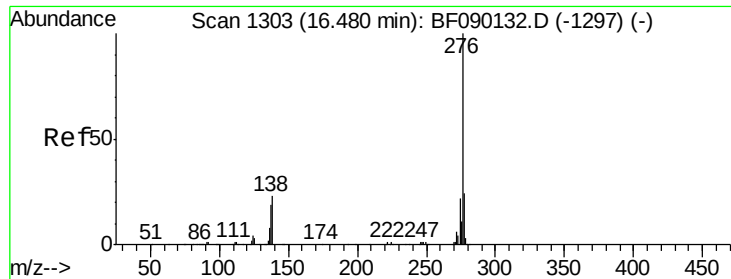
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#89  
Benzo(a)pyrene  
Concen: 3.02 ng  
RT: 14.87 min Scan# 1162  
Delta R.T. 0.00 min  
Lab File: BF090237.D  
Acq: 26 Sep 2016 22:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 31.1  | 17.4  | 26.0# |
| 125     | 38.6  | 7.7   | 11.5# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 2.27 ng  
 RT: 16.40 min Scan# 1296  
 Delta R.T. 0.00 min  
 Lab File: BF090237.D  
 Acq: 26 Sep 2016 22:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CAM-SELECTFILLRE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 20272 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 32.8  | 18.9  | 28.3# |
| 138       | 39.8  | 23.3  | 34.9# |

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