

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\  
 Data File : BF094040.D  
 Acq On : 30 Mar 2017 1:13  
 Operator : SJ/MA  
 Sample : I2443-14  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-BB-CC-8-9-BASE

Manual Integrations  
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 3/30/2017 2:33:08 PM

Quant Time: Mar 30 04:36:41 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 27 16:10:49 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 5.92  | 152  | 168833   | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8          | 7.43  | 136  | 668642   | 20.00  | ng    | -0.03    |
| 38) Acenaphthene-d10        | 9.57  | 164  | 295296   | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10        | 11.39 | 188  | 483372   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12            | 14.64 | 240  | 316402   | 20.00  | ng    | -0.04    |
| 86) Perylene-d12            | 16.28 | 264  | 268218   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 4.47  | 112  | 1334634  | 133.52 | ng    | 0.00     |
| 7) Phenol-d6                | 5.53  | 99   | 1675513  | 135.49 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 6.57  | 82   | 1029647  | 87.88  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330  | 314578   | 134.81 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 8.75  | 172  | 1544508  | 79.78  | ng    | -0.03    |
| 78) Terphenyl-d14           | 13.37 | 244  | 970953   | 68.79  | ng    | -0.03    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.25  | 163  | 109287   | 5.21   | ng    | 99       |
| 51) Acenaphthene            | 9.60  | 154  | 41032    | 2.27   | ng    | 97       |
| 57) Fluorene                | 10.24 | 166  | 48539    | 2.38   | ng    | 98       |
| 70) Phenanthrene            | 11.42 | 178  | 669454   | 24.90  | ng    | 98       |
| 71) Anthracene              | 11.48 | 178  | 201383   | 7.27   | ng    | 98       |
| 74) Fluoranthene            | 12.89 | 202  | 747047   | 27.13  | ng    | 98       |
| 77) Pyrene                  | 13.16 | 202  | 784942   | 34.18  | ng    | 98       |
| 80) Benzo(a)anthracene      | 14.63 | 228  | 269078   | 14.58  | ng    | 98       |
| 82) Chrysene                | 14.67 | 228  | 264196   | 15.43  | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 17.64 | 276  | 133312   | 8.99   | ng    | 95       |
| 87) Benzo(b)fluoranthene    | 15.87 | 252  | 274293m  | 16.68  | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.89 | 252  | 88512m   | 5.50   | ng    |          |
| 89) Benzo(a)pyrene          | 16.22 | 252  | 249380   | 16.47  | ng    | 97       |
| 90) Dibenzo(a,h)anthracene  | 17.65 | 278  | 33673    | 2.63   | ng    | # 87     |
| 91) Benzo(a,h,i)perylene    | 18.04 | 276  | 147538   | 11.42  | ng    | 96       |

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

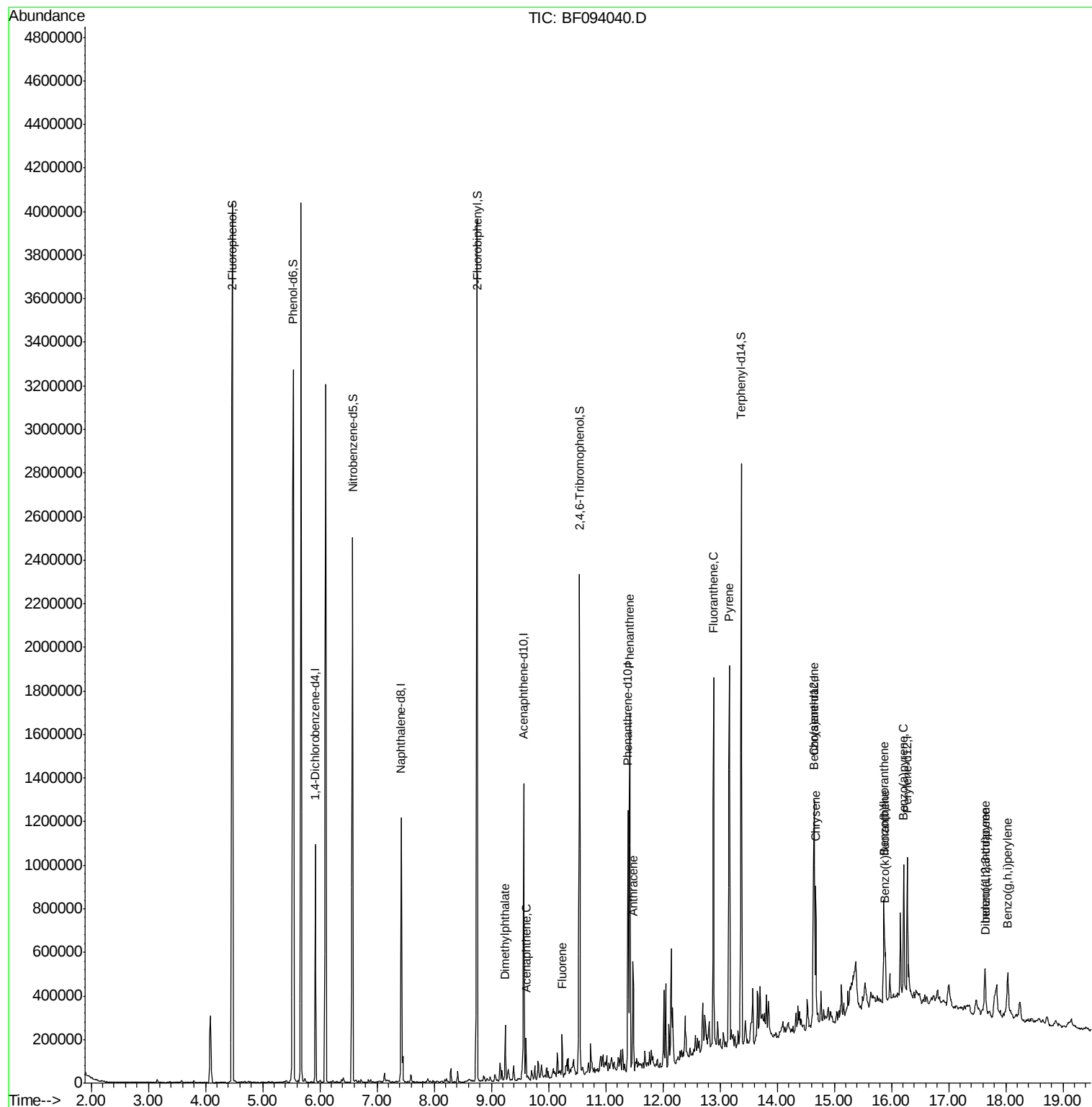
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\  
Data File : BF094040.D  
Acq On : 30 Mar 2017 1:13  
Operator : SJ/MA  
Sample : I2443-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

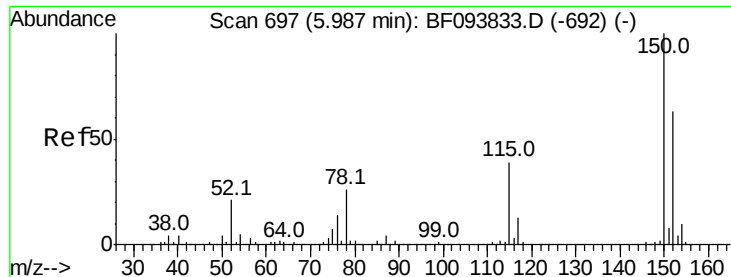
Instrument :  
BNA\_F  
ClientSampleId :  
E2-BB-CC-8-9-BASE

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Quant Time: Mar 30 04:36:41 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 27 16:10:49 2017  
Response via : Initial Calibration





#1

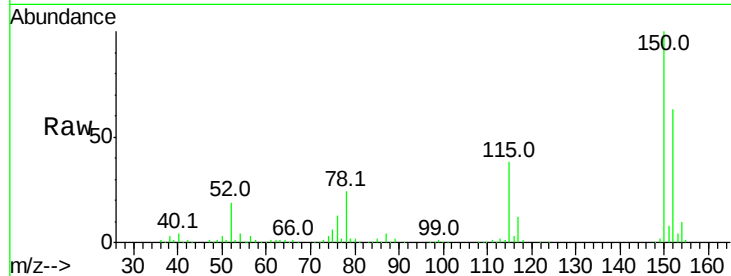
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 5.92 min Scan# 686  
Delta R.T. -0.03 min  
Lab File: BF094040.D  
Acq: 30 Mar 2017 1:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-BB-CC-8-9-BASE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.9 | 126.2 | 189.2 |
| 115     | 60.8  | 52.2  | 78.2  |

Manual Integrations  
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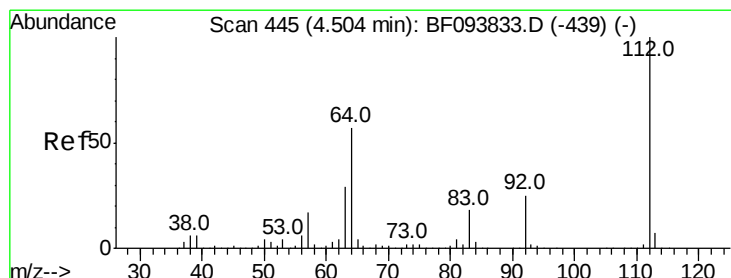
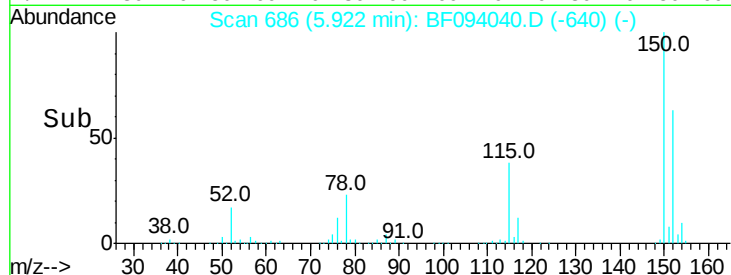
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

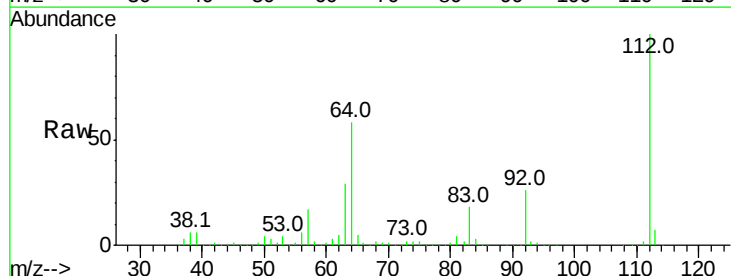
Time-->



#5

2-Fluorophenol  
Concen: 133.52 ng  
RT: 4.47 min Scan# 439  
Delta R.T. -0.01 min  
Lab File: BF094040.D  
Acq: 30 Mar 2017 1:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.7  | 46.0  | 69.0  |
| 63      | 29.1  | 23.4  | 35.0  |



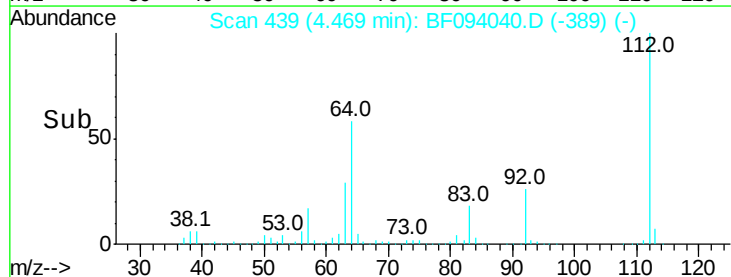
Abundance

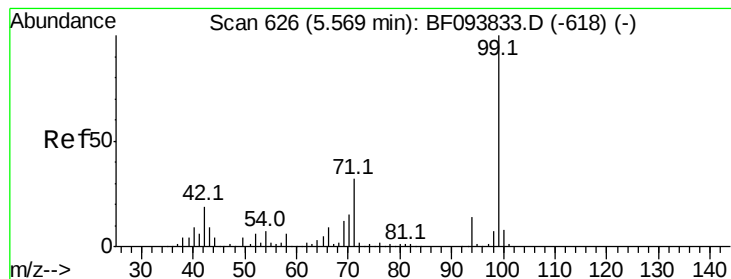
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Time-->





#7

Phenol-d6

Concen: 135.49 ng

RT: 5.53 min Scan# 620

Delta R.T. -0.02 min

Lab File: BF094040.D

Acq: 30 Mar 2017 1:13

Instrument :

BNA\_F

ClientSampleId :

E2-BB-CC-8-9-BASE

Tot Ion: 99 Resp: 1675513

Ion Ratio Lower Upper

99 100

42 17.7 13.5 20.3

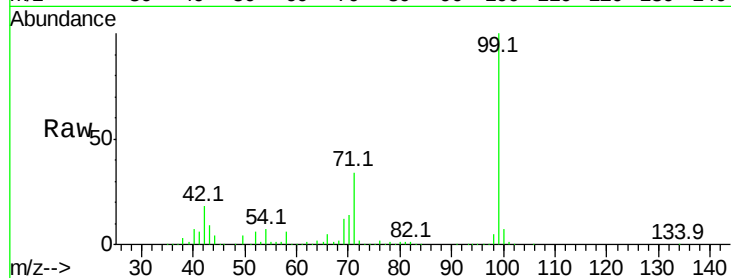
71 33.7 24.5 36.7

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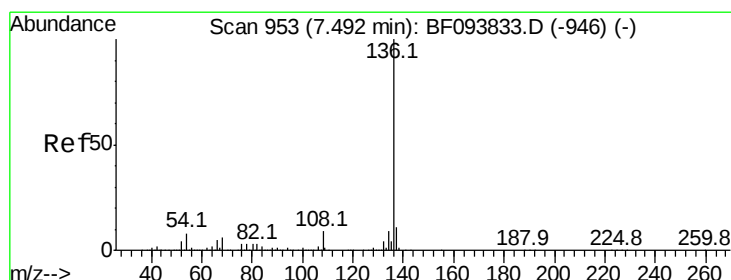
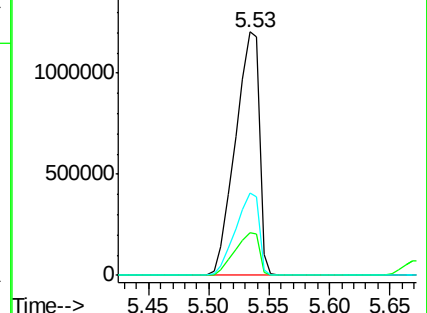
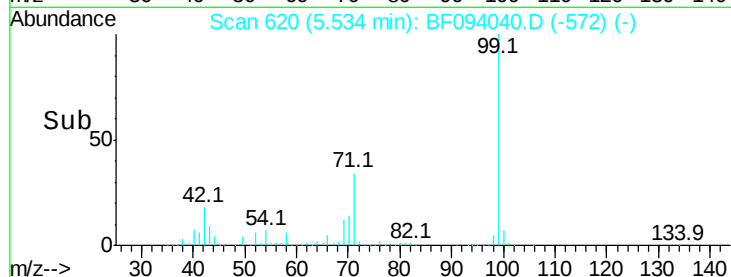
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.43 min Scan# 942

Delta R.T. -0.03 min

Lab File: BF094040.D

Acq: 30 Mar 2017 1:13

Tgt Ion: 136 Resp: 668642

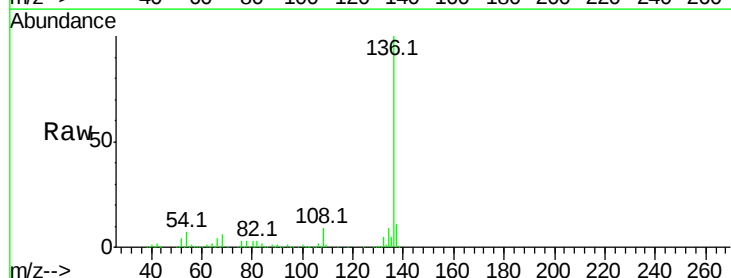
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 6.8 4.9 7.3

68 5.8 4.1 6.1

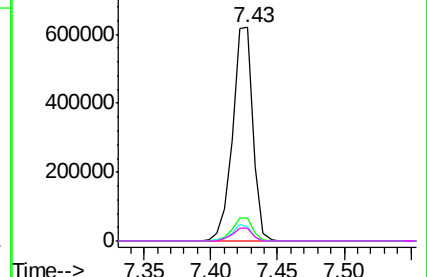
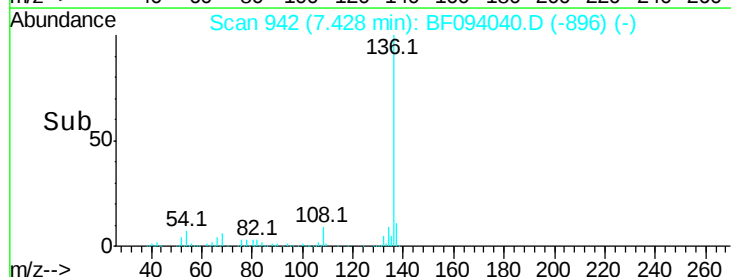


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





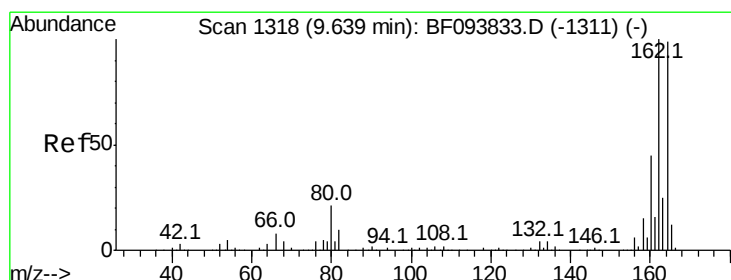
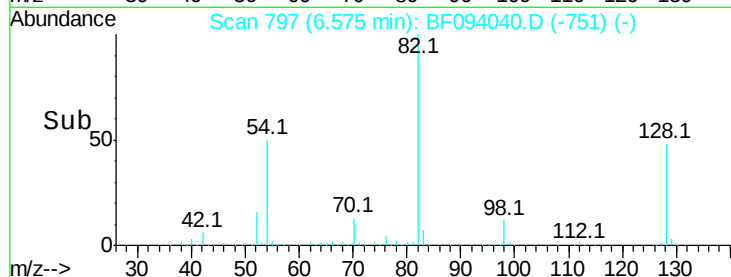
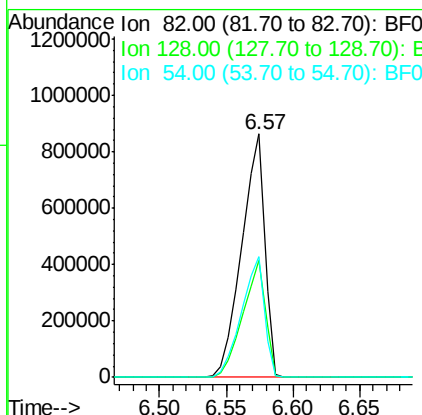
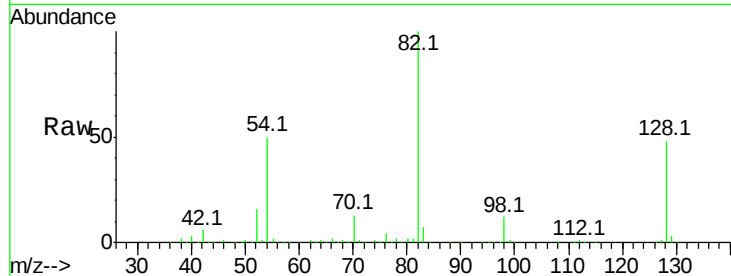
#23  
 Nitrobenzene-d5  
 Concen: 87.88 ng  
 RT: 6.57 min Scan# 797  
 Delta R.T. -0.03 min  
 Lab File: BF094040.D  
 Acq: 30 Mar 2017 1:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-BB-CC-8-9-BASE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 48.0  | 34.0  | 51.0  |
| 54      | 49.5  | 42.2  | 63.2  |

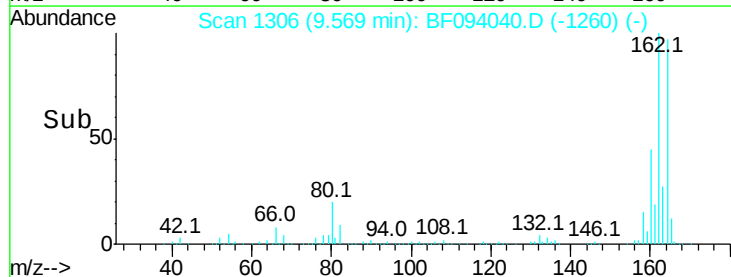
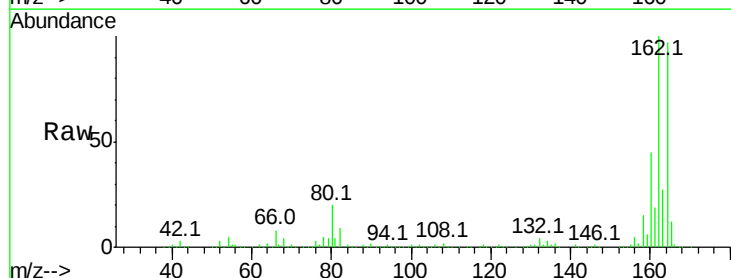
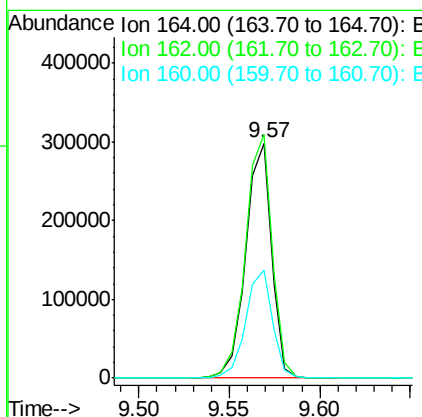
Manual Integrations  
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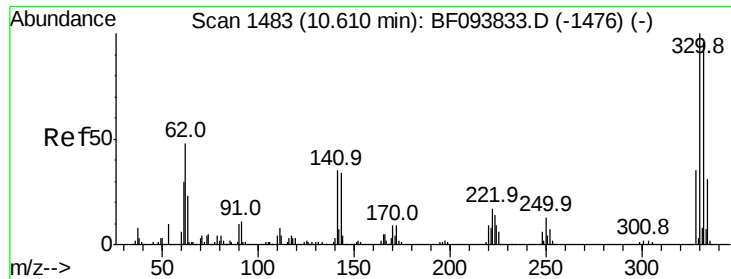
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.57 min Scan# 1306  
 Delta R.T. -0.03 min  
 Lab File: BF094040.D  
 Acq: 30 Mar 2017 1:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.5 | 82.6  | 123.8 |
| 160     | 46.1  | 36.2  | 54.2  |





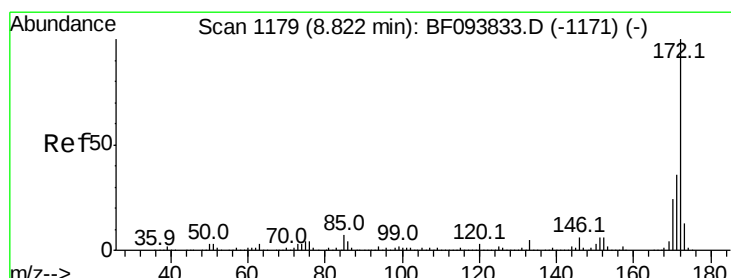
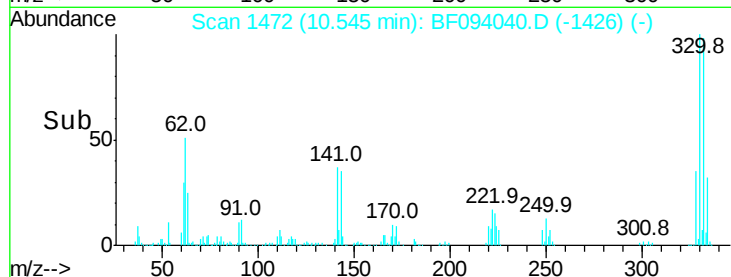
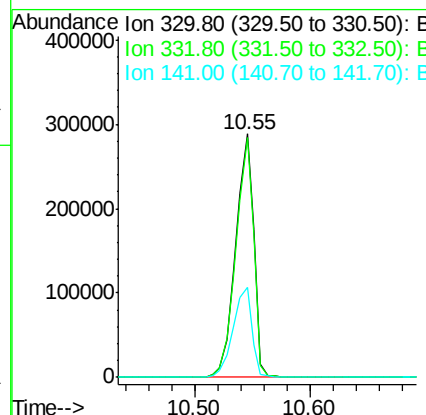
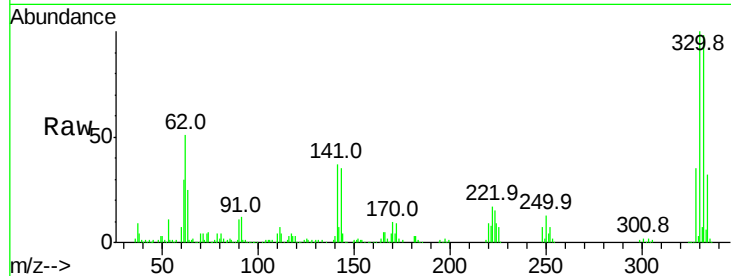
#41  
 2,4,6-Tribromophenol  
 Concen: 134.81 ng  
 RT: 10.55 min Scan# 1472  
 Delta R.T. -0.03 min  
 Lab File: BF094040.D  
 Acq: 30 Mar 2017 1:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-BB-CC-8-9-BASE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 76.6  | 115.0 |
| 141     | 38.7  | 31.4  | 47.2  |

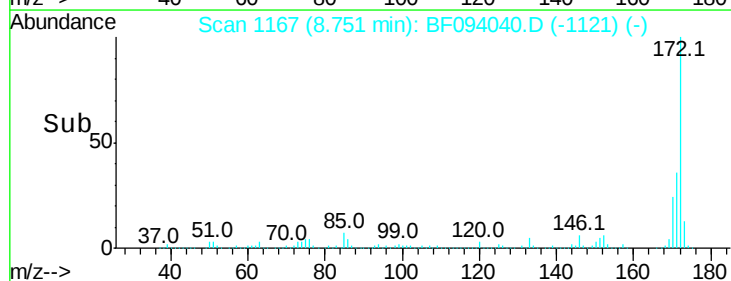
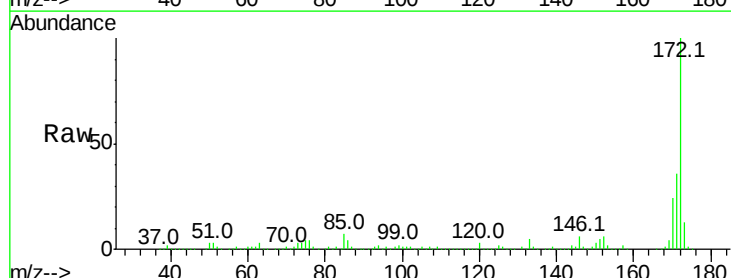
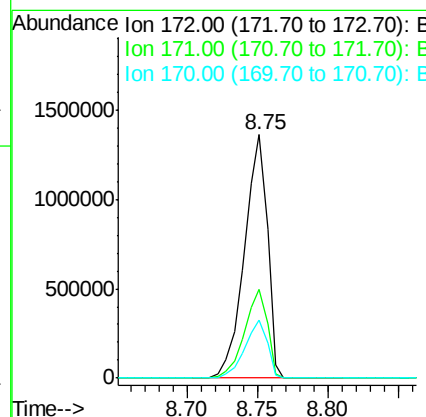
Manual Integrations  
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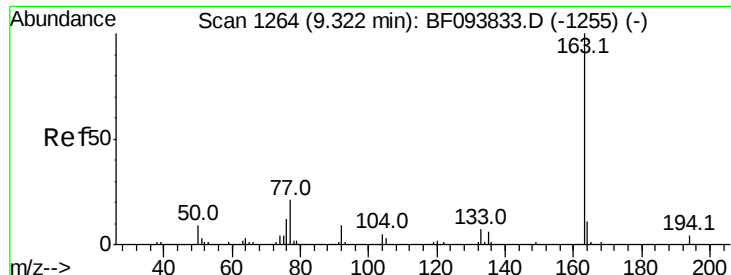
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#44  
 2-Fluorobiphenyl  
 Concen: 79.78 ng  
 RT: 8.75 min Scan# 1167  
 Delta R.T. -0.03 min  
 Lab File: BF094040.D  
 Acq: 30 Mar 2017 1:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.6  | 44.4  |
| 170     | 24.0  | 19.8  | 29.8  |





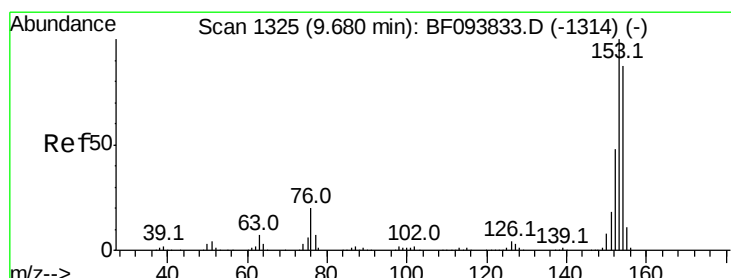
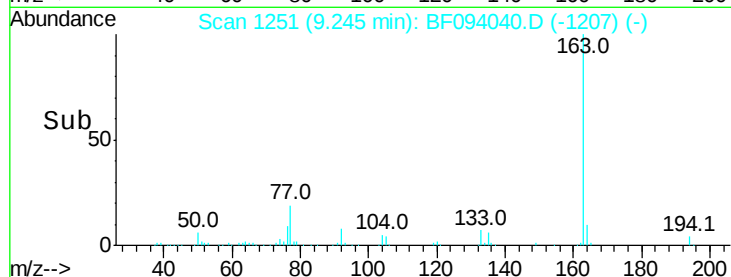
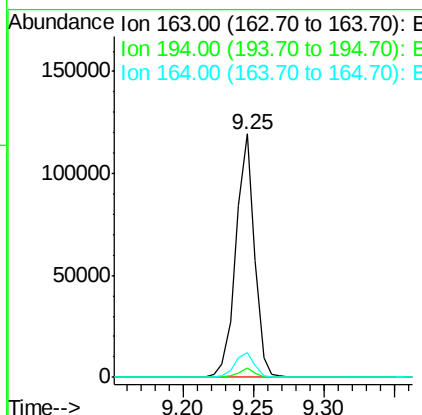
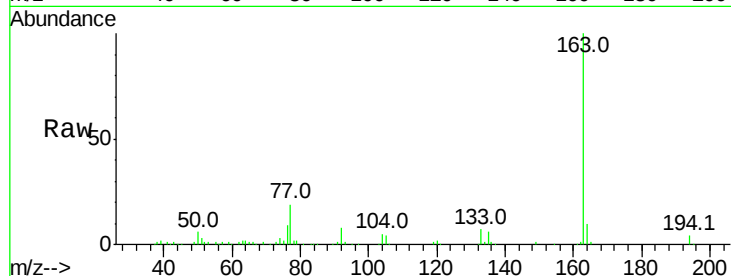
#49  
Dimethylphthalate  
Concen: 5.21 ng  
RT: 9.25 min Scan# 1251  
Delta R.T. -0.04 min  
Lab File: BF094040.D  
Acq: 30 Mar 2017 1:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-BB-CC-8-9-BASE

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 3.7   | 2.6  | 4.0   |       |
| 164     | 10.0  | 8.4  | 12.6  |       |

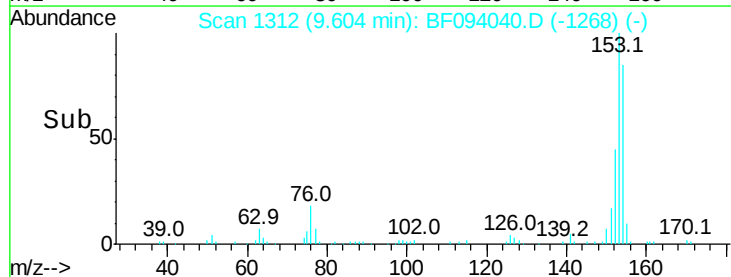
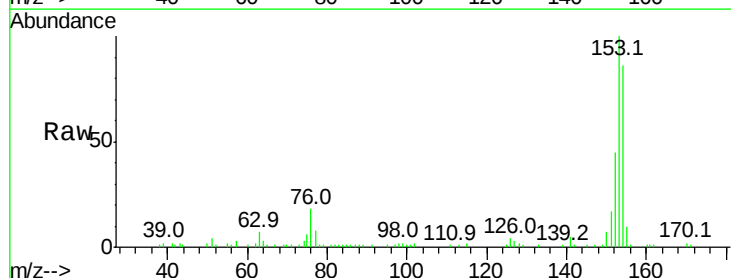
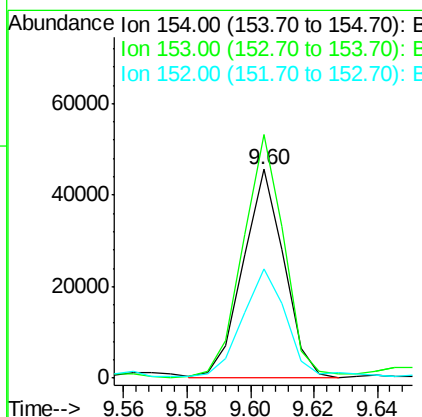
Manual Integrations  
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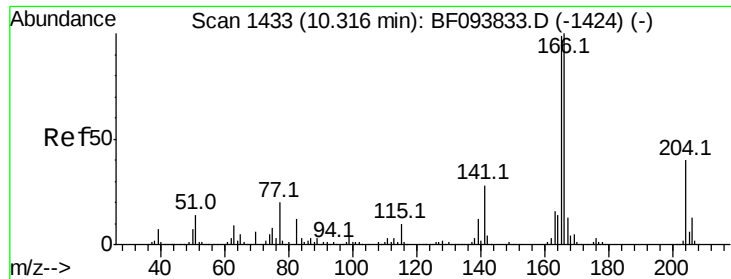
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#51  
Acenaphthene  
Concen: 2.27 ng  
RT: 9.60 min Scan# 1312  
Delta R.T. -0.04 min  
Lab File: BF094040.D  
Acq: 30 Mar 2017 1:13

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 154     | 100   |      |       |       |
| 153     | 116.8 | 90.5 | 135.7 |       |
| 152     | 52.3  | 43.6 | 65.4  |       |





#57

Fluorene

Concen: 2.38 ng

RT: 10.24 min Scan# 1420

Delta R.T. -0.04 min

Lab File: BF094040.D

Acq: 30 Mar 2017 1:13

Instrument :

BNA\_F

ClientSampleId :

E2-BB-CC-8-9-BASE

Tot Ion:166 Resp: 48539

Ion Ratio Lower Upper

166 100

165 97.2 78.8 118.2

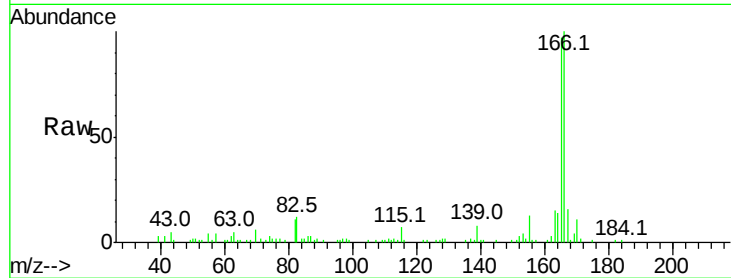
167 15.7 10.6 16.0

Manual Integrations

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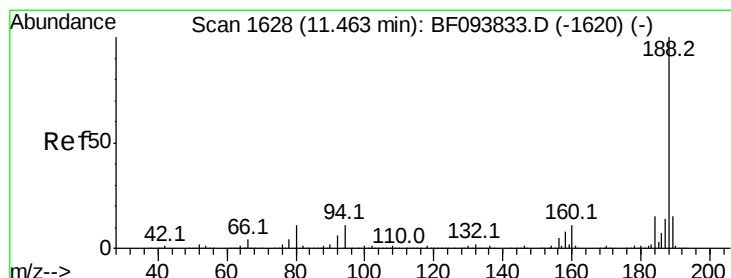
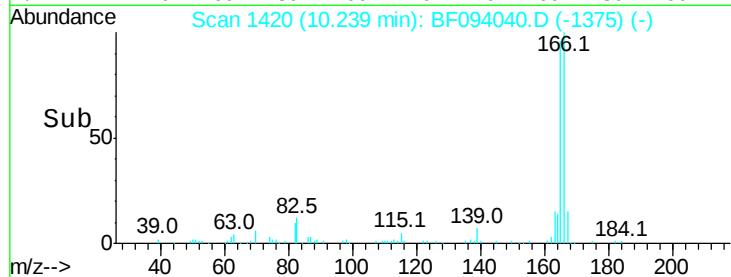
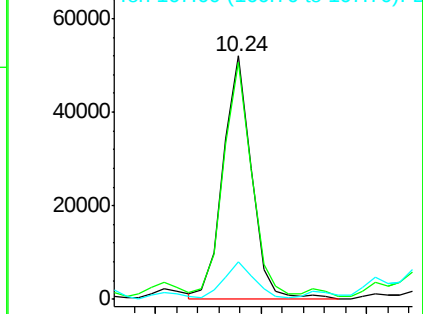
3/30/2017 2:33:08 PM



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.39 min Scan# 1616

Delta R.T. -0.03 min

Lab File: BF094040.D

Acq: 30 Mar 2017 1:13

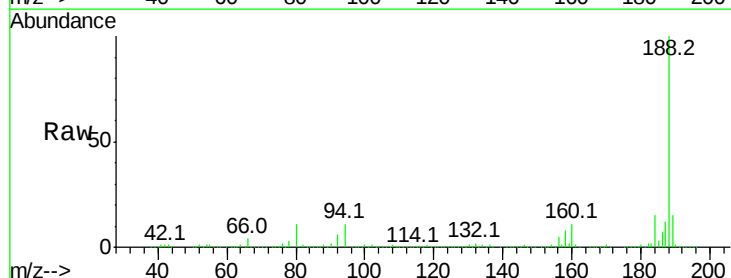
Tgt Ion:188 Resp: 483372

Ion Ratio Lower Upper

188 100

94 11.0 9.4 14.2

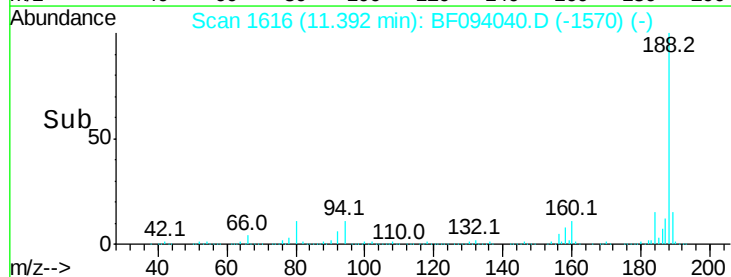
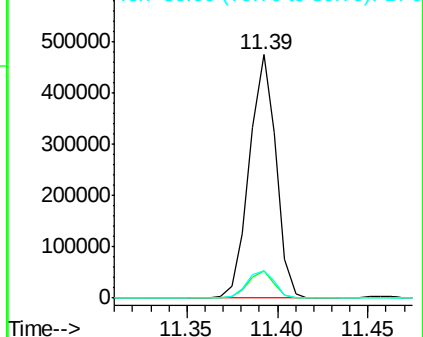
80 11.1 10.2 15.2

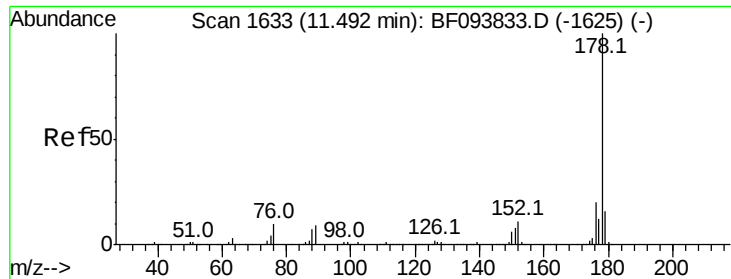


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 24.90 ng

RT: 11.42 min Scan# 1621

Delta R.T. -0.04 min

Lab File: BF094040.D

Acq: 30 Mar 2017 1:13

Instrument :

BNA\_F

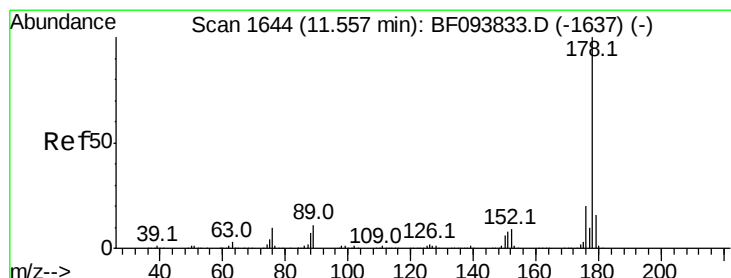
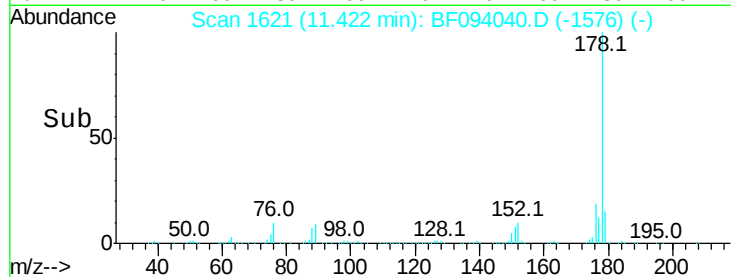
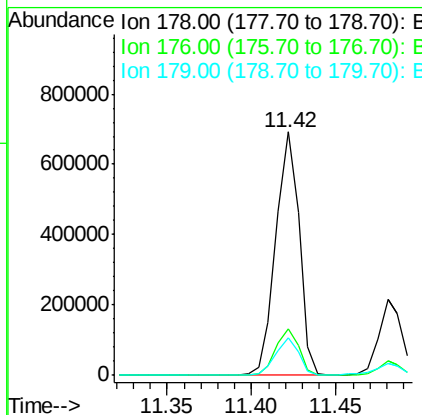
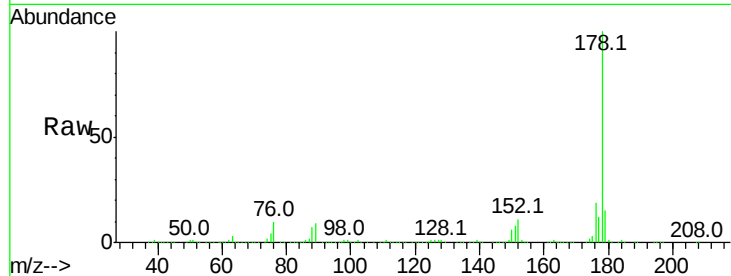
ClientSampleId :

E2-BB-CC-8-9-BASE

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 669454    |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 19.2  | 16.2 24.4 |
| 179         | 15.4  | 12.6 19.0 |

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#71

Anthracene

Concen: 7.27 ng

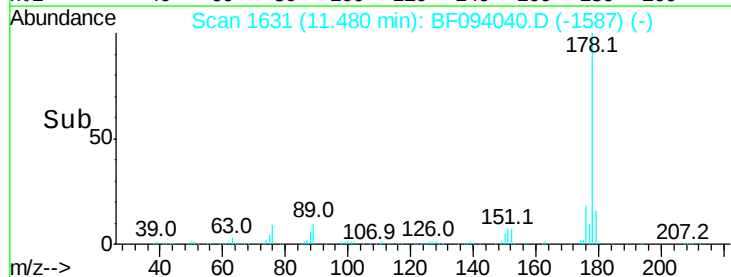
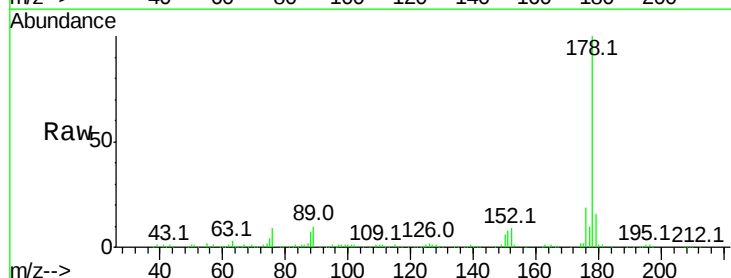
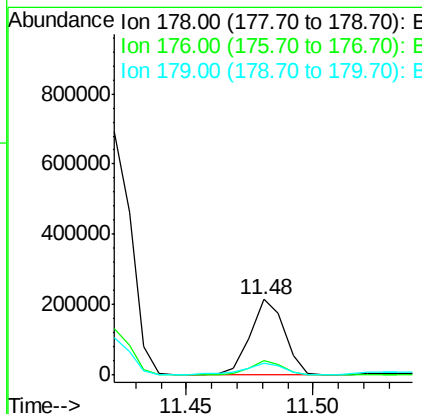
RT: 11.48 min Scan# 1631

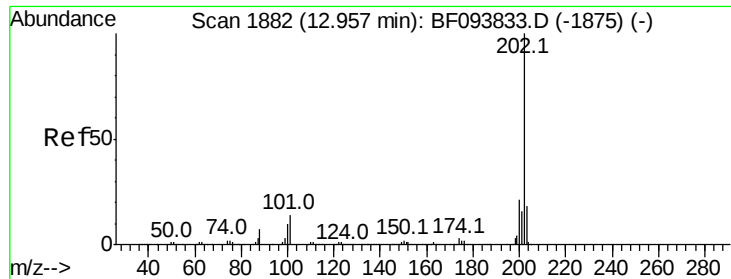
Delta R.T. -0.04 min

Lab File: BF094040.D

Acq: 30 Mar 2017 1:13

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 201383    |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.6  | 15.8 23.8 |
| 179         | 16.4  | 12.7 19.1 |





#74

Fluoranthene

Concen: 27.13 ng

RT: 12.89 min Scan# 1870

Delta R.T. -0.04 min

Lab File: BF094040.D

Acq: 30 Mar 2017 1:13

Instrument :

BNA\_F

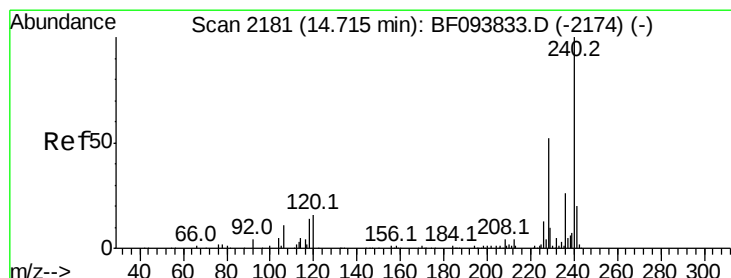
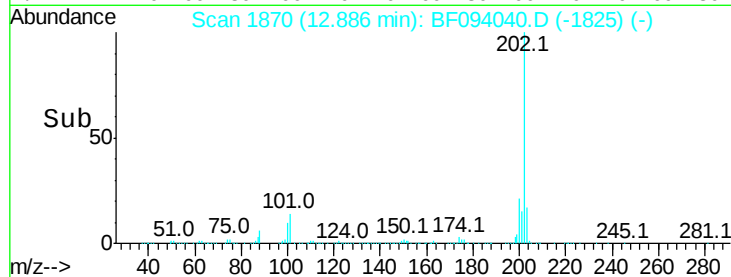
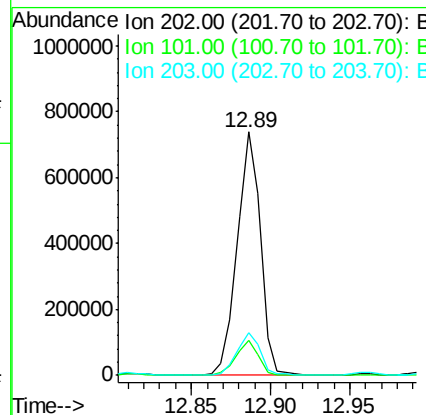
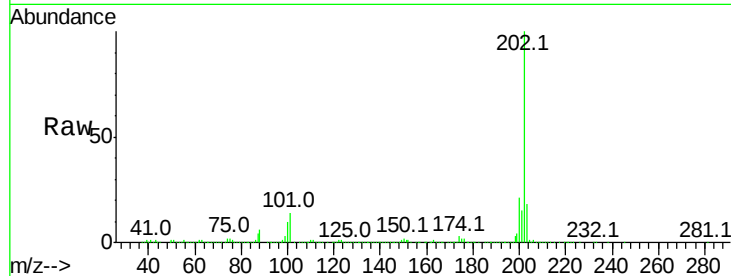
ClientSampleId :

E2-BB-CC-8-9-BASE

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 14.1  | 0.0        | 33.2  |
| 203     | 17.6  | 0.0        | 38.1  |

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#75

Chrysene-d12

Concen: 20.00 ng

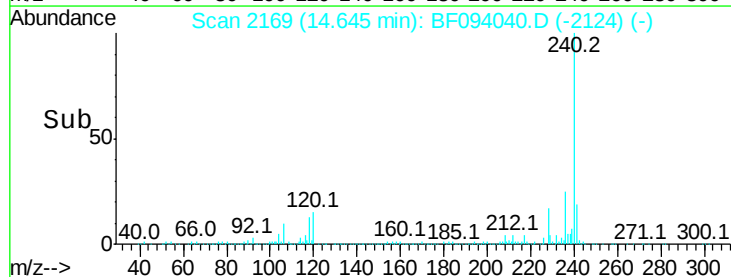
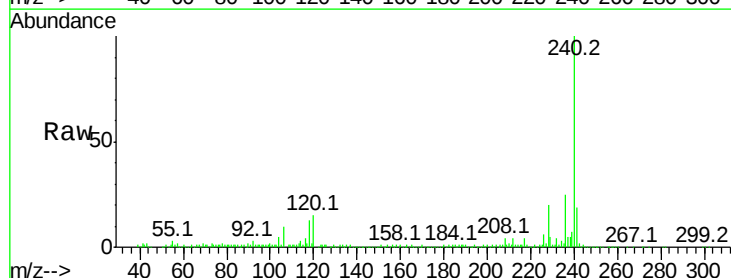
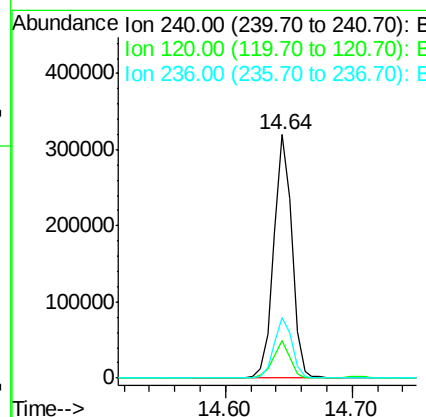
RT: 14.64 min Scan# 2169

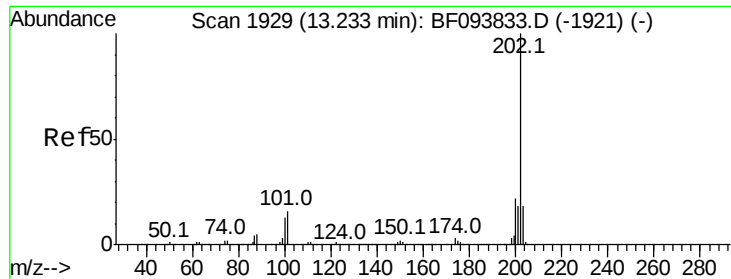
Delta R.T. -0.04 min

Lab File: BF094040.D

Acq: 30 Mar 2017 1:13

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 15.3  | 5.8        | 8.8#  |
| 236     | 24.9  | 20.5       | 30.7  |





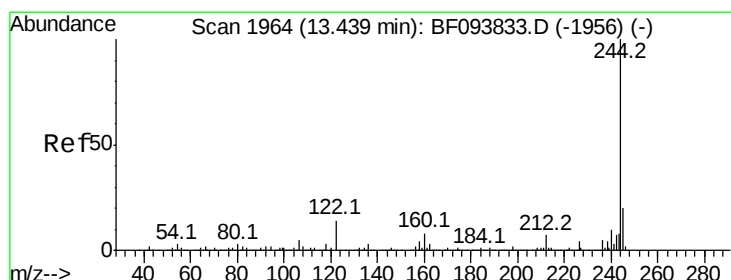
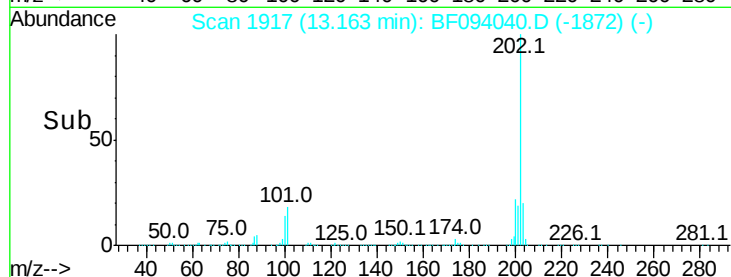
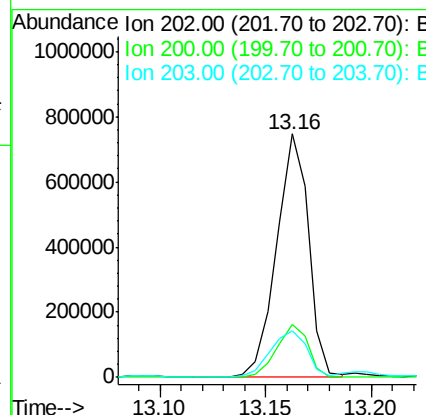
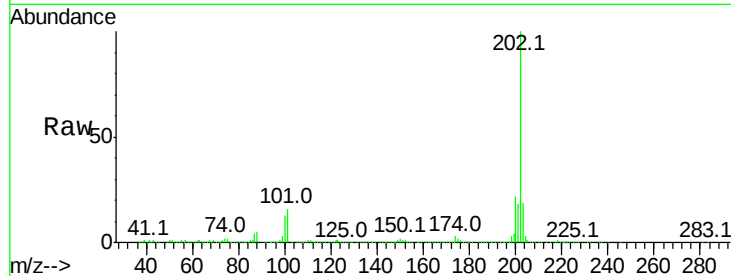
#77  
Pvrene  
Concen: 34.18 ng  
RT: 13.16 min Scan# 1917  
Delta R.T. -0.04 min  
Lab File: BF094040.D  
Acq: 30 Mar 2017 1:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-BB-CC-8-9-BASE

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 21.7  | 17.6       | 26.4  |
| 203     | 19.2  | 14.4       | 21.6  |

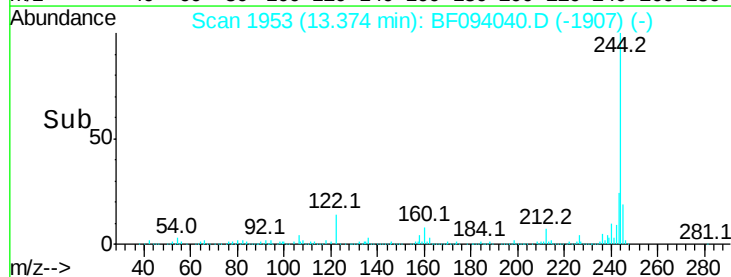
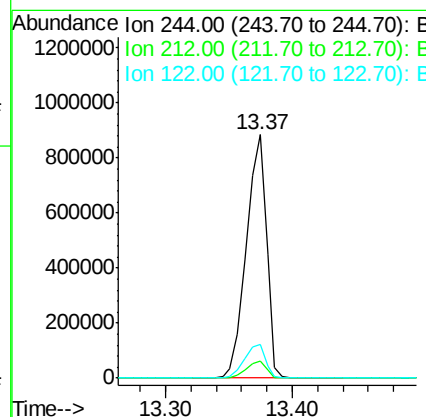
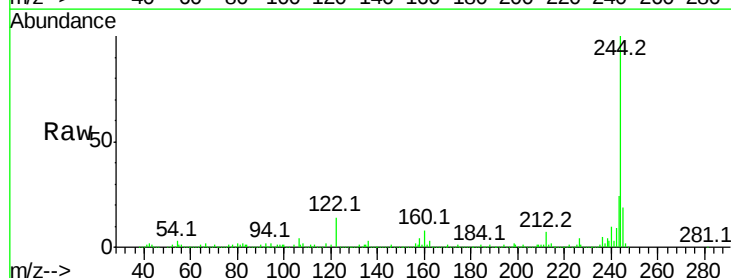
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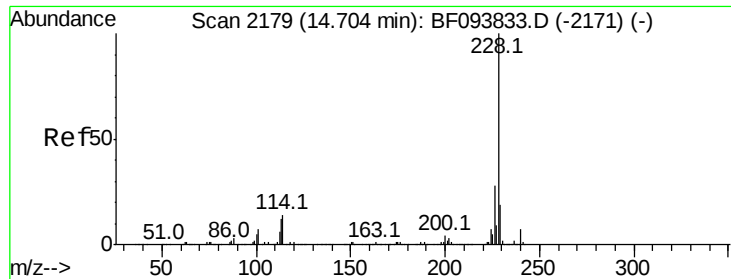
mohammad  
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#78  
Terphenyl-d14  
Concen: 68.79 ng  
RT: 13.37 min Scan# 1953  
Delta R.T. -0.03 min  
Lab File: BF094040.D  
Acq: 30 Mar 2017 1:13

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 7.1   | 6.0        | 9.0   |
| 122     | 13.8  | 10.3       | 15.5  |





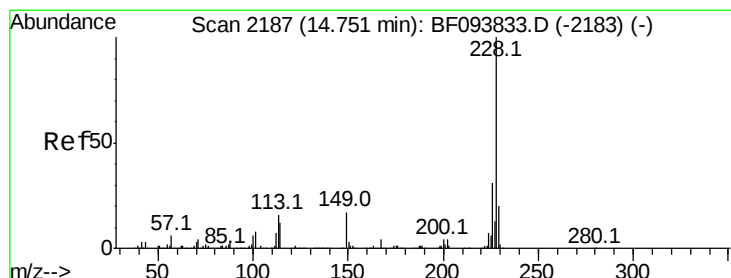
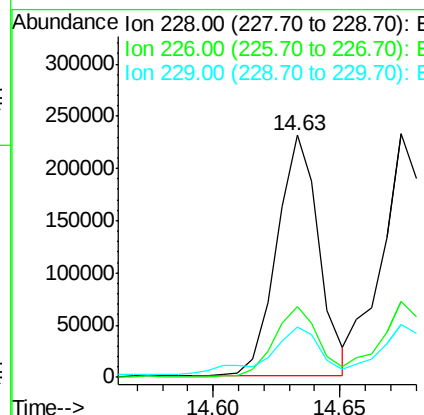
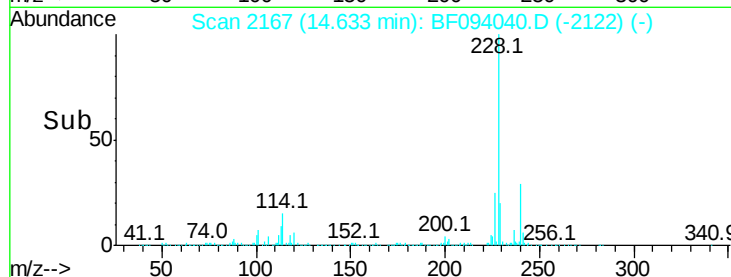
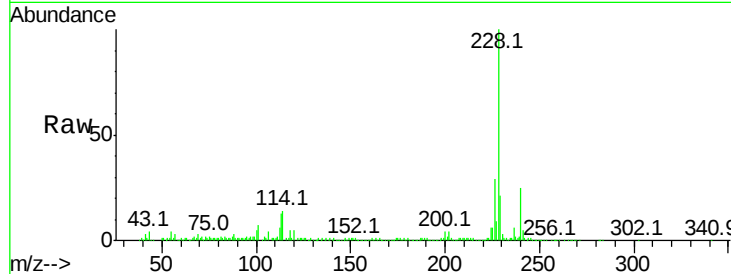
#80  
Benzo(a)anthracene  
Concen: 14.58 ng  
RT: 14.63 min Scan# 2167  
Delta R.T. -0.04 min  
Lab File: BF094040.D  
Acq: 30 Mar 2017 1:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-BB-CC-8-9-BASE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 269078 |       |       |
| 226     | 29.4  |        | 22.6  | 33.8  |
| 229     | 20.6  |        | 16.3  | 24.5  |

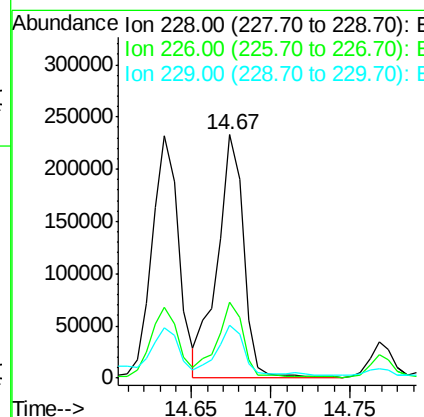
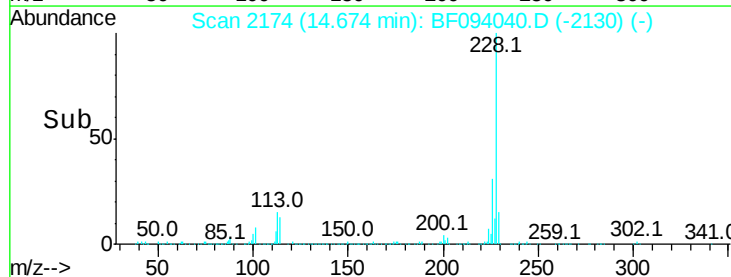
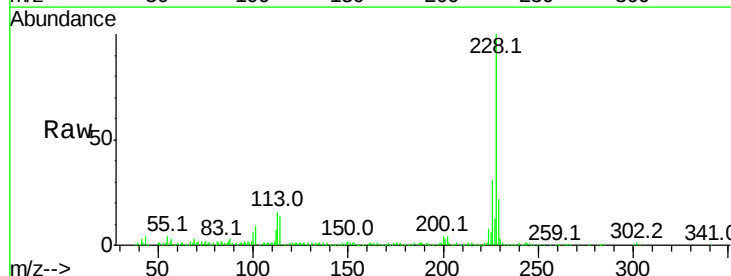
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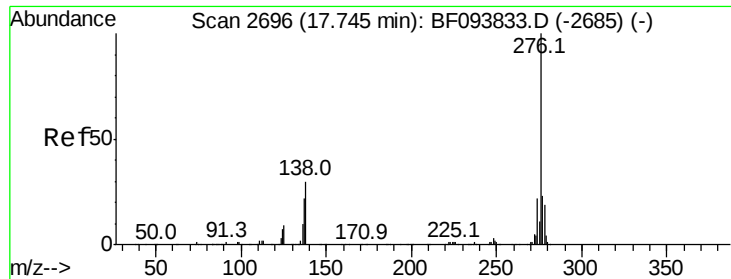
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#82  
Chrysene  
Concen: 15.43 ng  
RT: 14.67 min Scan# 2174  
Delta R.T. -0.04 min  
Lab File: BF094040.D  
Acq: 30 Mar 2017 1:13

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 264196 |       |       |
| 226     | 31.0  |        | 24.9  | 37.3  |
| 229     | 21.9  |        | 15.8  | 23.6  |





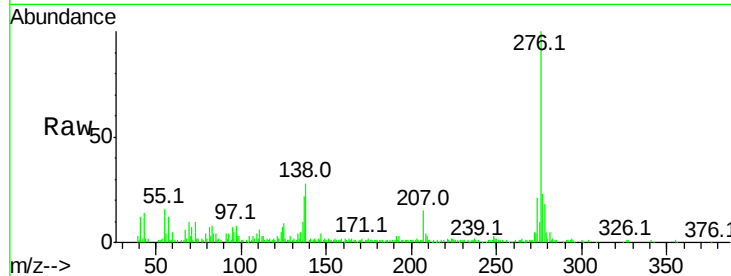
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 8.99 ng  
RT: 17.64 min Scan# 2678  
Delta R.T. -0.05 min  
Lab File: BF094040.D  
Acq: 30 Mar 2017 1:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-BB-CC-8-9-BASE

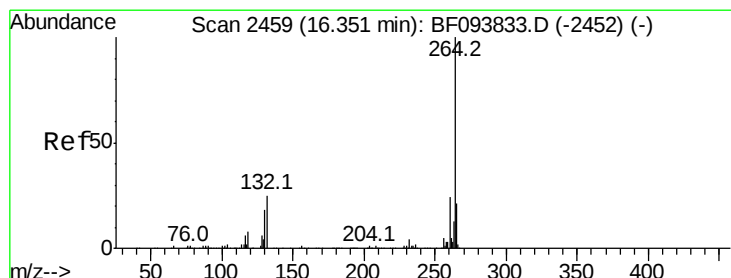
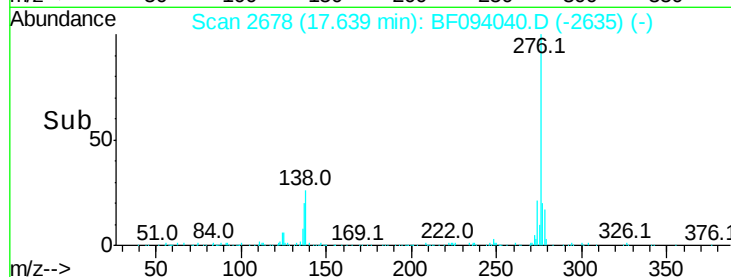
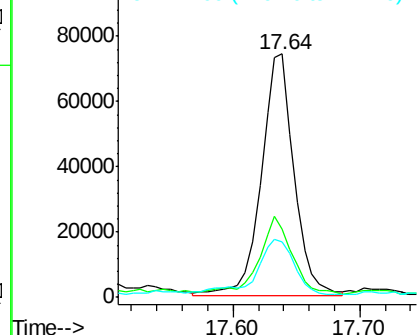
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 32.4  | 27.8  | 41.6  |
| 277     | 27.9  | 20.2  | 30.4  |

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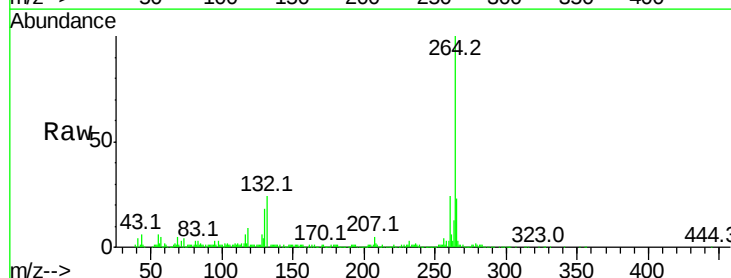


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

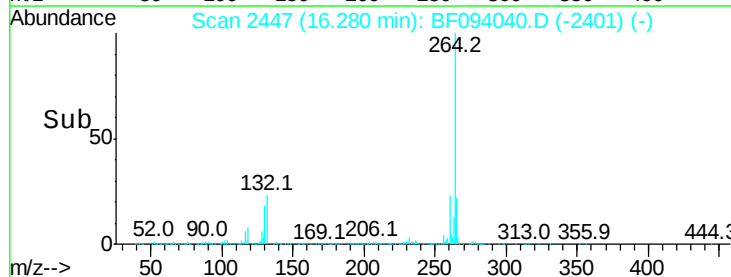
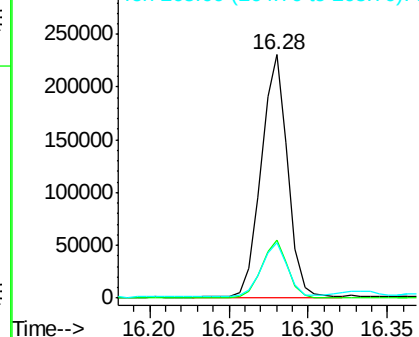


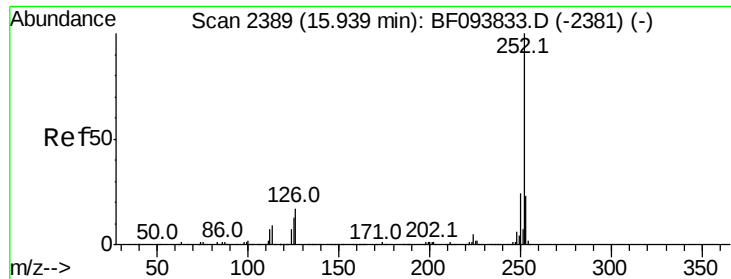
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 16.28 min Scan# 2447  
Delta R.T. -0.03 min  
Lab File: BF094040.D  
Acq: 30 Mar 2017 1:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.5  | 29.3  |
| 265     | 22.6  | 17.2  | 25.8  |



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: 16.68 ng m

RT: 15.87 min Scan# 2377

Delta R.T. -0.03 min

Lab File: BF094040.D

Acq: 30 Mar 2017 1:13

Instrument :

BNA\_F

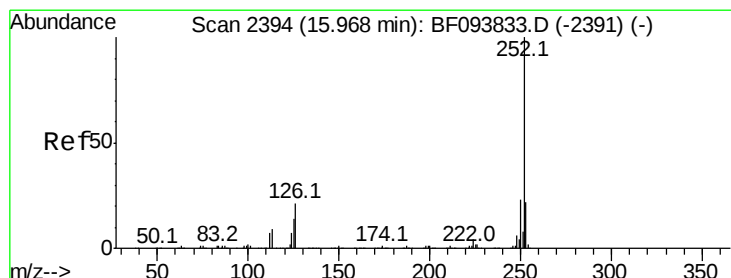
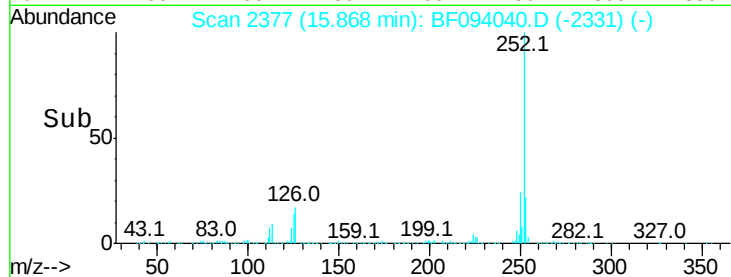
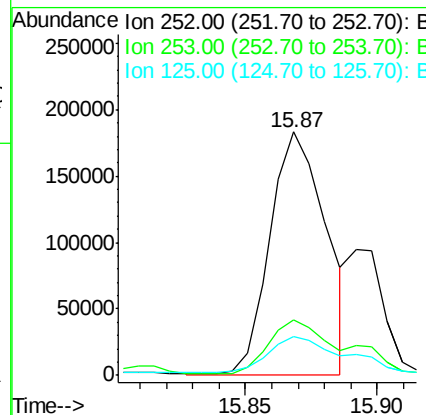
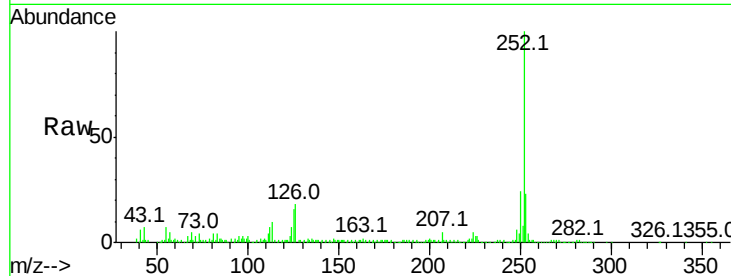
ClientSampleId :

E2-BB-CC-8-9-BASE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 274293 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.9  | 18.1  | 27.1   |
| 125       | 15.7  | 9.8   | 14.8#  |

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#88

Benzo(k)fluoranthene

Concen: 5.50 ng m

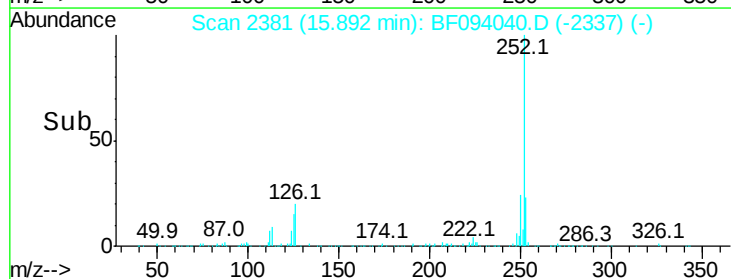
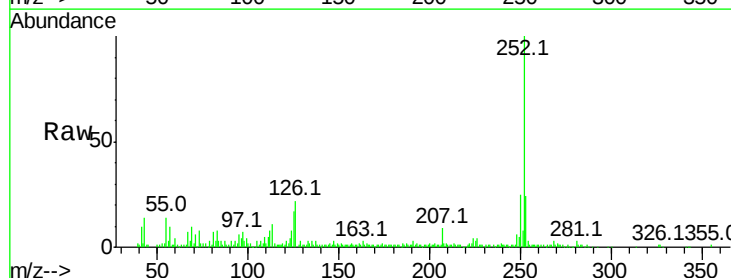
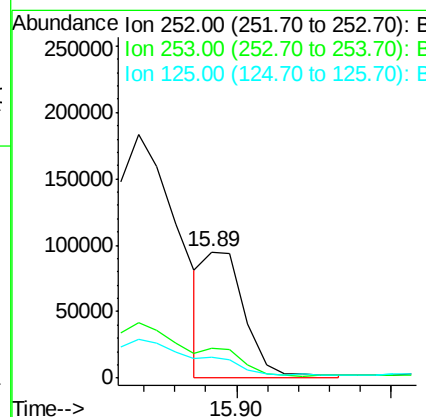
RT: 15.89 min Scan# 2381

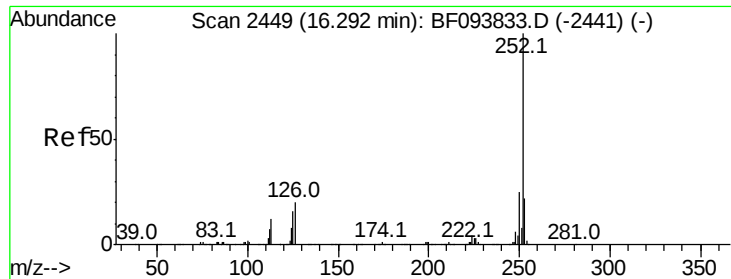
Delta R.T. -0.04 min

Lab File: BF094040.D

Acq: 30 Mar 2017 1:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 88512 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.7  | 18.4  | 27.6  |
| 125       | 17.0  | 13.1  | 19.7  |





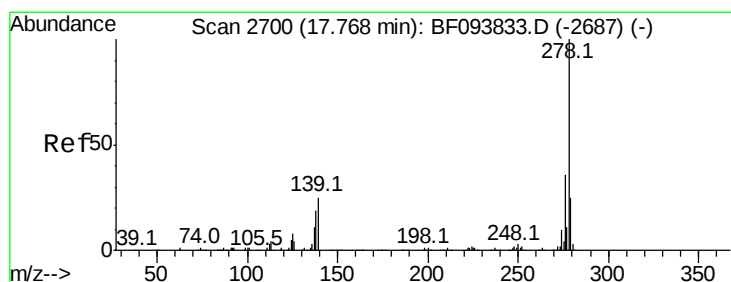
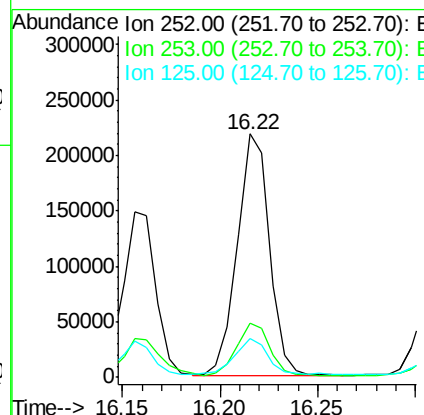
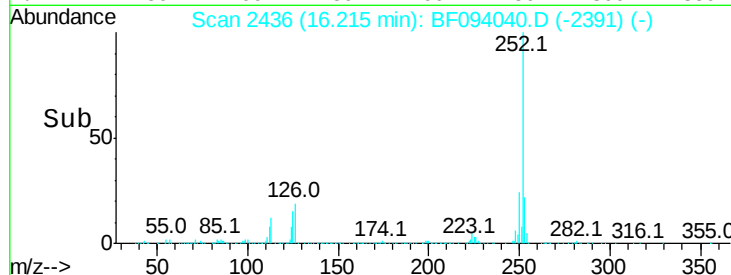
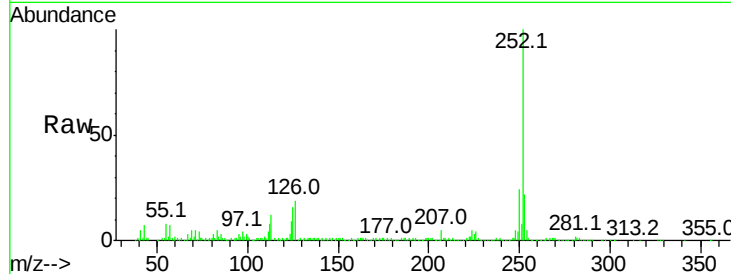
#89  
Benzo(a)pyrene  
Concen: 16.47 ng  
RT: 16.22 min Scan# 2436  
Delta R.T. -0.04 min  
Lab File: BF094040.D  
Acq: 30 Mar 2017 1:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-BB-CC-8-9-BASE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.5  | 26.3  |
| 125     | 16.0  | 11.0  | 16.4  |

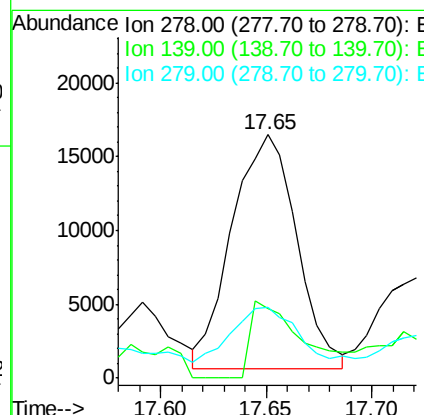
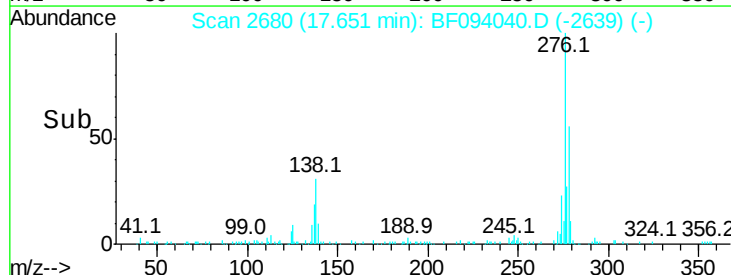
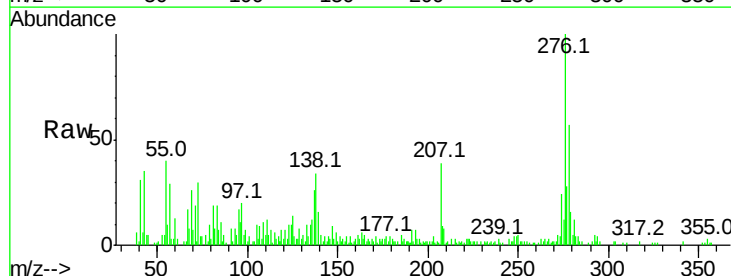
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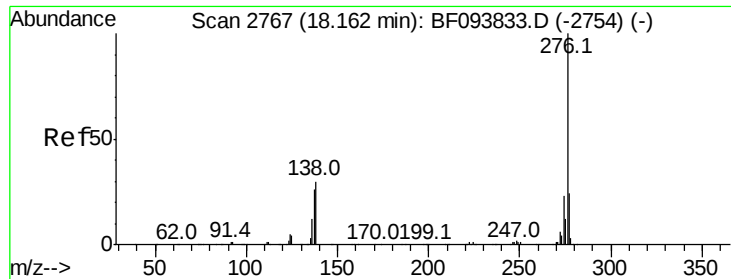
mohammad  
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#90  
Dibenzo(a,h)anthracene  
Concen: 2.63 ng  
RT: 17.65 min Scan# 2680  
Delta R.T. -0.06 min  
Lab File: BF094040.D  
Acq: 30 Mar 2017 1:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 28.3  | 16.6  | 24.8# |
| 279     | 29.0  | 19.3  | 28.9# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 11.42 ng  
 RT: 18.04 min Scan# 2746  
 Delta R.T. -0.06 min  
 Lab File: BF094040.D  
 Acq: 30 Mar 2017 1:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-BB-CC-8-9-BASE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.3  | 18.6  | 28.0  |
| 138     | 29.4  | 25.4  | 38.0  |

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