

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050617\  
 Data File : BF094970.D  
 Acq On : 8 May 2017 5:42  
 Operator : SJ/MA  
 Sample : I2947-14  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-05-0-2.0

Manual Integrations  
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mohammad  
 5/8/2017 5:51:33 PM

Quant Time: May 08 08:49:31 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 03 17:24:51 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 7.72  | 152  | 102440   | 20.00  | ng    | -0.01       |
| 21) Naphthalene-d8          | 9.74  | 136  | 377513   | 20.00  | ng    | -0.01       |
| 38) Acenaphthene-d10        | 12.57 | 164  | 179681   | 20.00  | ng    | -0.01       |
| 63) Phenanthrene-d10        | 14.97 | 188  | 305942   | 20.00  | ng    | -0.01       |
| 75) Chrysene-d12            | 18.64 | 240  | 227269   | 20.00  | ng    | -0.02       |
| 86) Perylene-d12            | 20.30 | 264  | 188634   | 20.00  | ng    | -0.01       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.66  | 112  | 610114   | 99.30  | ng    | -0.02       |
| 7) Phenol-d6                | 7.25  | 99   | 797528   | 108.18 | ng    | -0.02       |
| 23) Nitrobenzene-d5         | 8.61  | 82   | 458175   | 76.53  | ng    | -0.02       |
| 41) 2,4,6-Tribromophenol    | 13.87 | 330  | 152325   | 103.51 | ng    | -0.02       |
| 44) 2-Fluorobiphenyl        | 11.51 | 172  | 743715   | 59.58  | ng    | -0.02       |
| 78) Terphenyl-d14           | 17.29 | 244  | 513726   | 49.79  | ng    | -0.02       |
| Target Compounds            |       |      |          |        |       |             |
| 10) Phenol                  | 7.27  | 94   | 17296    | 2.23   | ng    | Qvalue # 59 |
| 49) Dimethylphthalate       | 12.21 | 163  | 154021   | 10.44  | ng    | 99          |
| 74) Fluoranthene            | 16.75 | 202  | 82706    | 4.59   | ng    | 97          |
| 77) Pyrene                  | 17.05 | 202  | 85377    | 5.02   | ng    | 95          |
| 80) Benzo(a)anthracene      | 18.62 | 228  | 44717m   | 3.38   | ng    |             |
| 82) Chrysene                | 18.67 | 228  | 58100    | 4.54   | ng    | 98          |
| 85) Indeno(1,2,3-cd)pyrene  | 21.60 | 276  | 36053    | 3.47   | ng    | 96          |
| 87) Benzo(b)fluoranthene    | 19.90 | 252  | 73473    | 6.30   | ng    | # 97        |
| 88) Benzo(k)fluoranthene    | 19.93 | 252  | 27263m   | 2.42   | ng    |             |
| 89) Benzo(a)pyrene          | 20.25 | 252  | 49925    | 4.64   | ng    | 95          |
| 91) Benzo(g,h,i)perylene    | 21.98 | 276  | 37608    | 4.31   | ng    | # 94        |

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

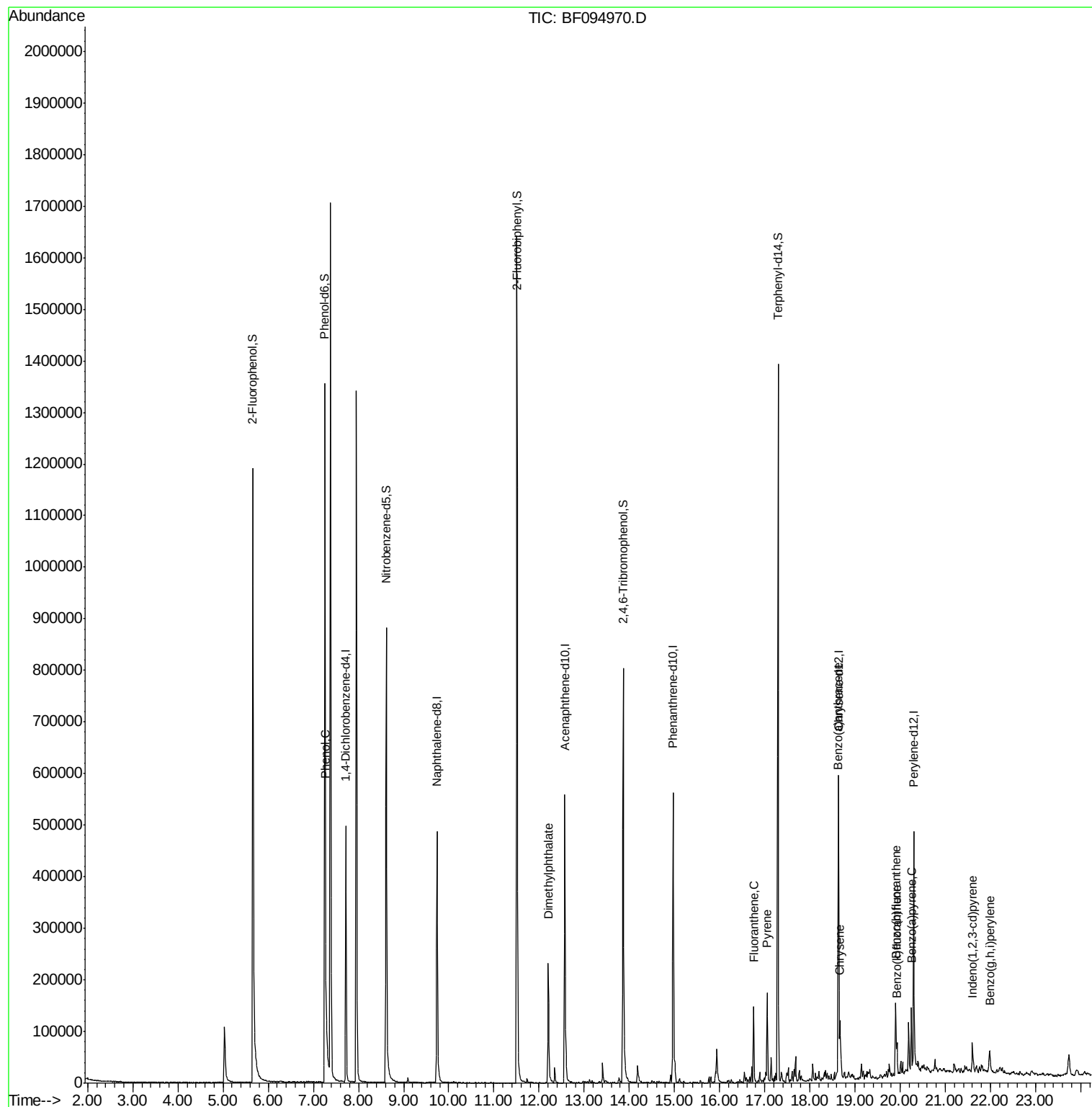
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050617\  
Data File : BF094970.D  
Acq On : 8 May 2017 5:42  
Operator : SJ/MA  
Sample : I2947-14  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

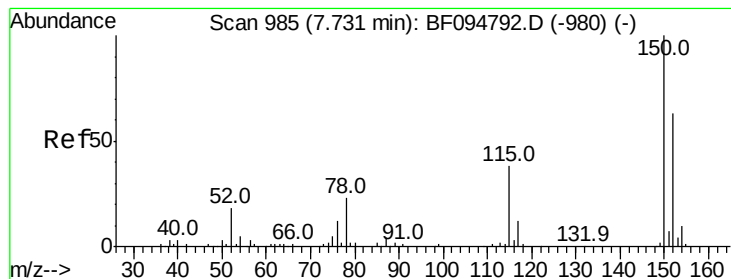
Instrument :  
BNA\_F  
ClientSampleId :  
SB-05-0-2.0

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Quant Time: May 08 08:49:31 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 03 17:24:51 2017  
Response via : Initial Calibration





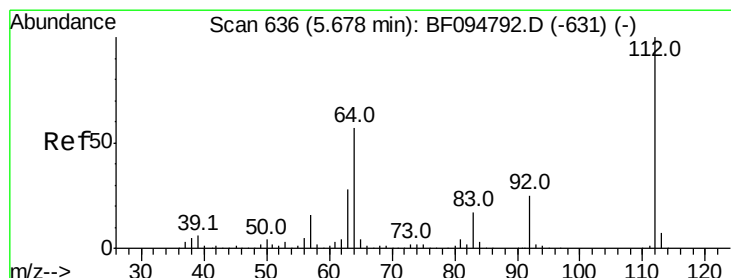
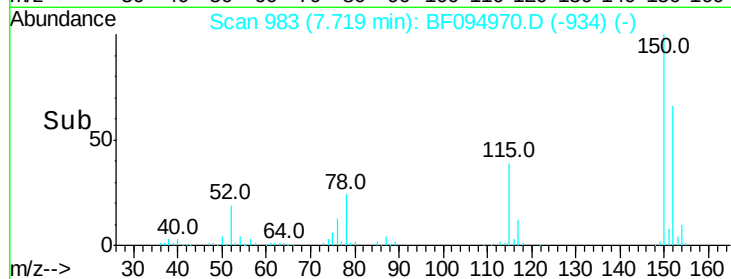
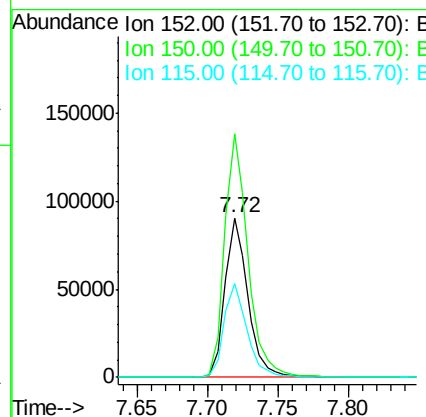
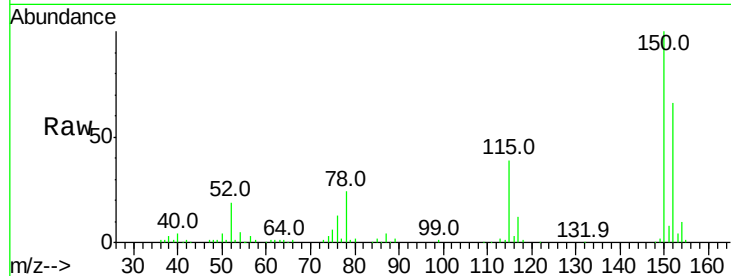
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.72 min Scan# 983  
 Delta R.T. -0.01 min  
 Lab File: BF094970.D  
 Acq: 8 May 2017 5:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-05-0-2.0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.5 | 126.2 | 189.2 |
| 115     | 59.1  | 52.2  | 78.2  |

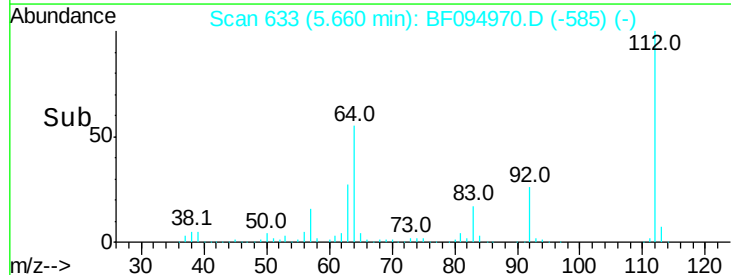
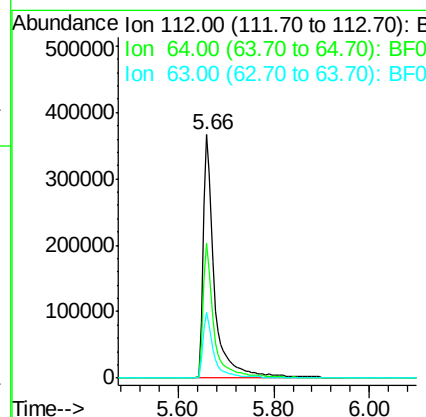
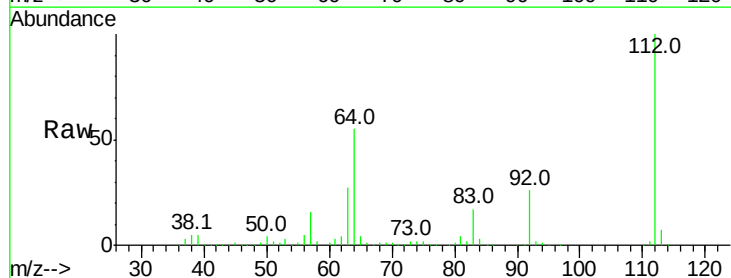
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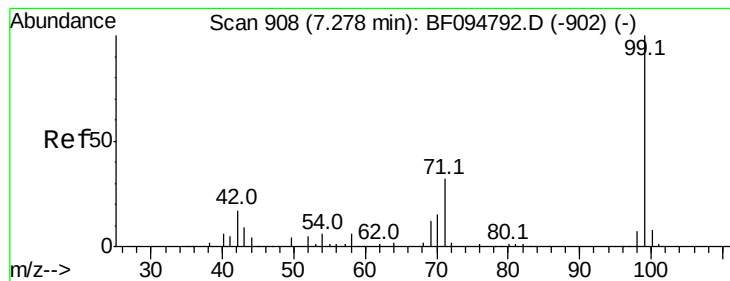
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#5  
 2-Fluorophenol  
 Concen: 99.30 ng  
 RT: 5.66 min Scan# 633  
 Delta R.T. -0.02 min  
 Lab File: BF094970.D  
 Acq: 8 May 2017 5:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.2  | 46.0  | 69.0  |
| 63      | 27.2  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 108.18 ng

RT: 7.25 min Scan# 904

Delta R.T. -0.02 min

Lab File: BF094970.D

Acq: 8 May 2017 5:42

Instrument :

BNA\_F

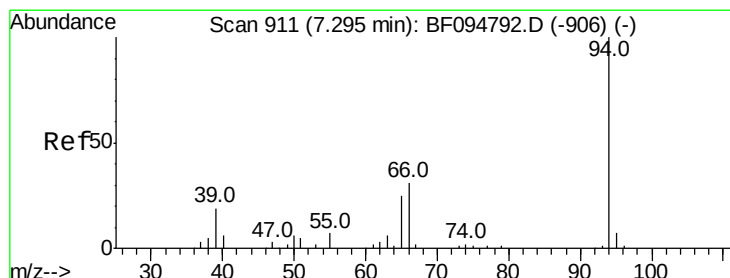
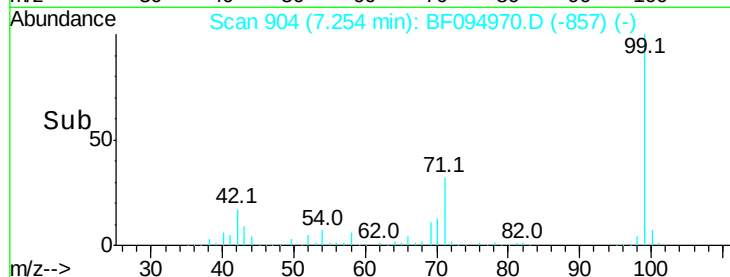
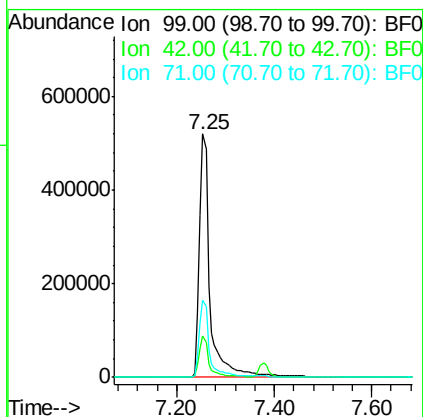
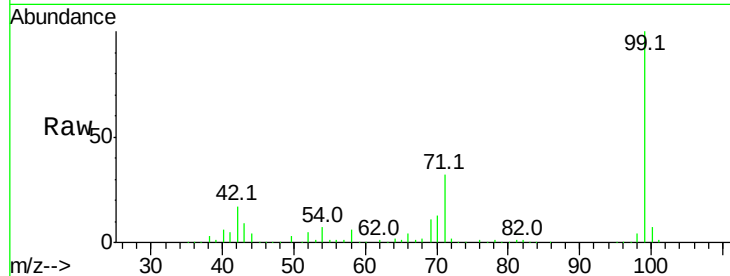
ClientSampleId :

SB-05-0-2.0

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 797528 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.9  | 13.5  | 20.3   |
| 71        | 32.0  | 24.5  | 36.7   |

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#10

Phenol

Concen: 2.23 ng

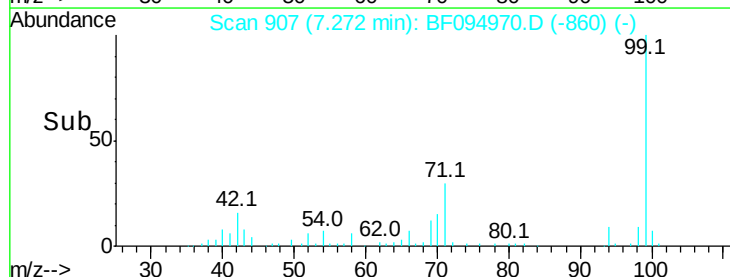
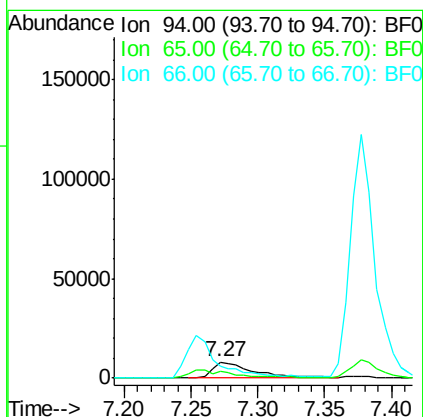
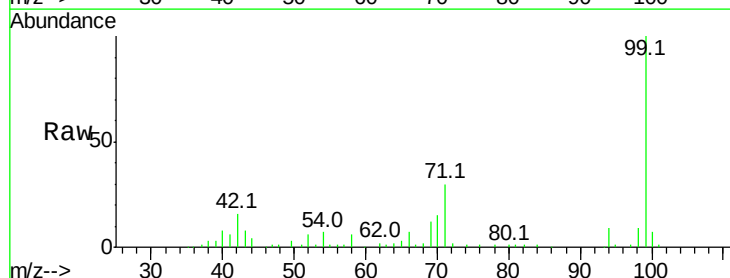
RT: 7.27 min Scan# 907

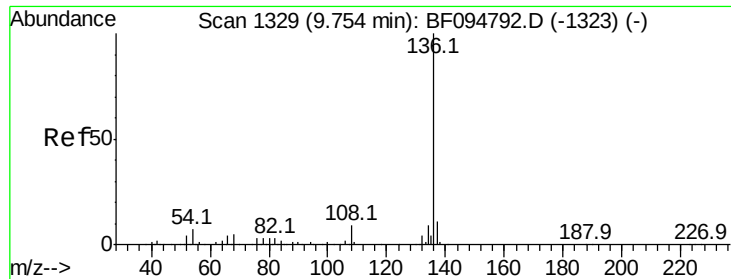
Delta R.T. -0.02 min

Lab File: BF094970.D

Acq: 8 May 2017 5:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 17296 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 40.8  | 9.9   | 49.9  |
| 66        | 78.8  | 23.1  | 63.1# |





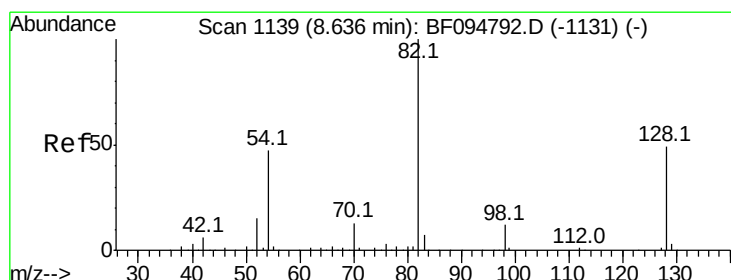
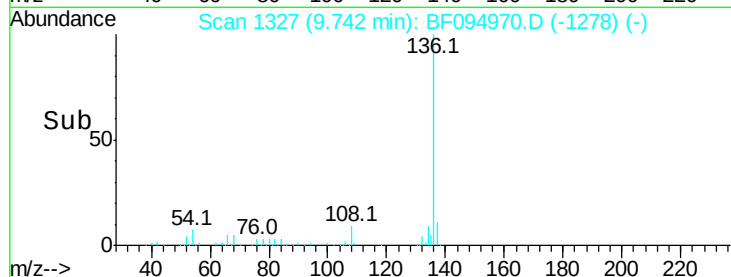
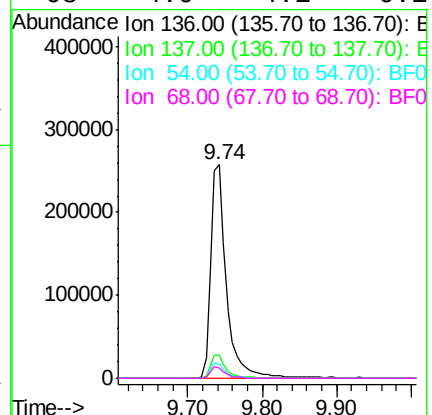
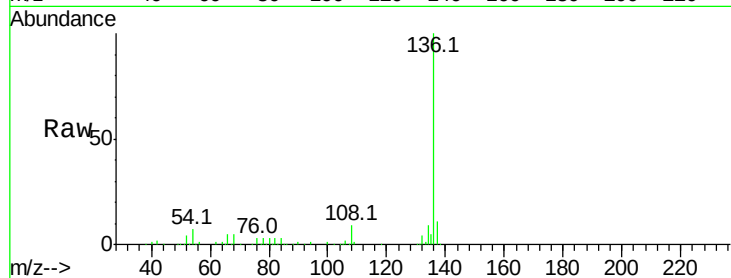
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.74 min Scan# 1327  
Delta R.T. -0.01 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05-0-2.0

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 10.6  | 8.5  | 12.7  |       |
| 54      | 6.8   | 4.9  | 7.3   |       |
| 68      | 4.9   | 4.1  | 6.1   |       |

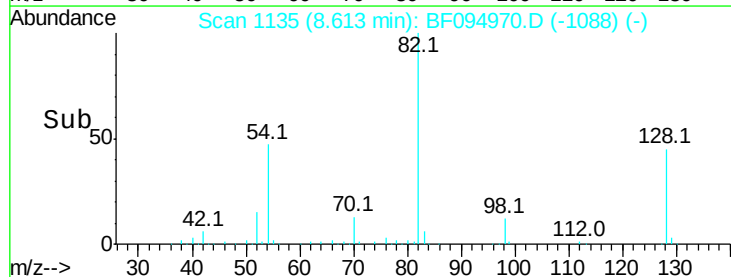
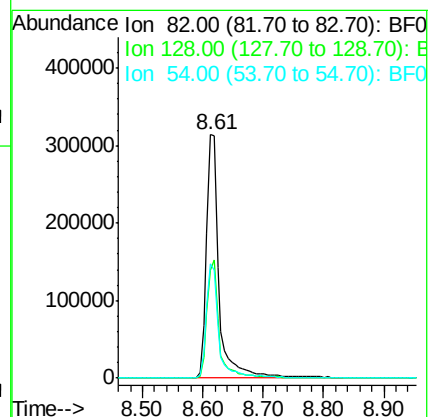
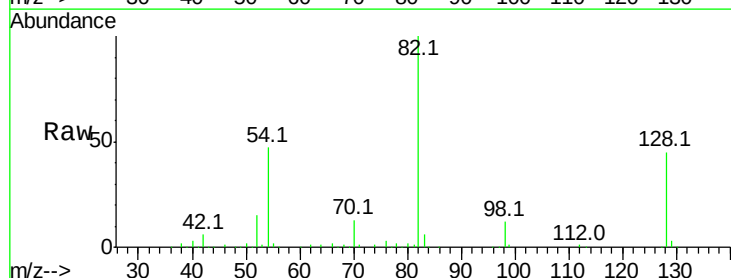
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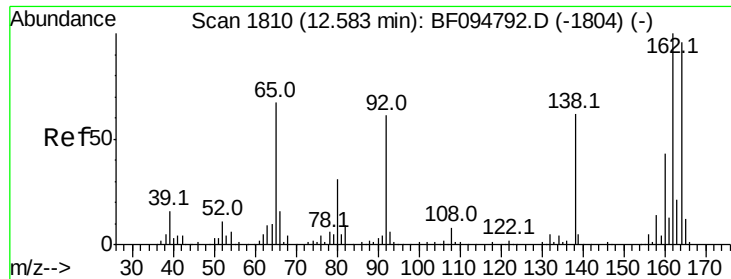
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#23  
Nitrobenzene-d5  
Concen: 76.53 ng  
RT: 8.61 min Scan# 1135  
Delta R.T. -0.02 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 44.6  | 34.0 | 51.0  |       |
| 54      | 47.2  | 42.2 | 63.2  |       |





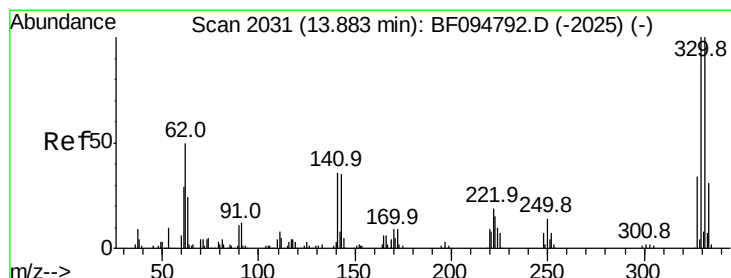
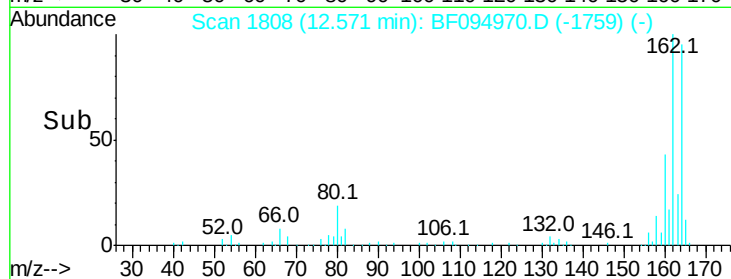
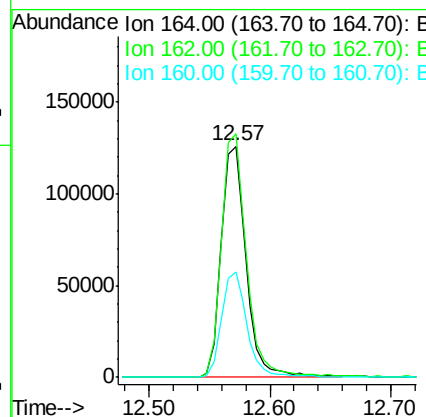
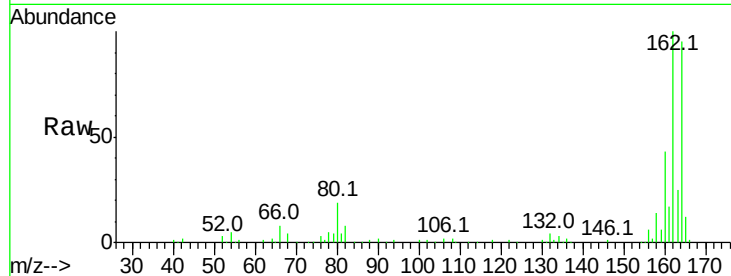
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.57 min Scan# 1808  
 Delta R.T. -0.01 min  
 Lab File: BF094970.D  
 Acq: 8 May 2017 5:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-05-0-2.0

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 179681 |       |       |
| 162     | 105.4 | 82.6   | 123.8 |       |
| 160     | 45.5  | 36.2   | 54.2  |       |

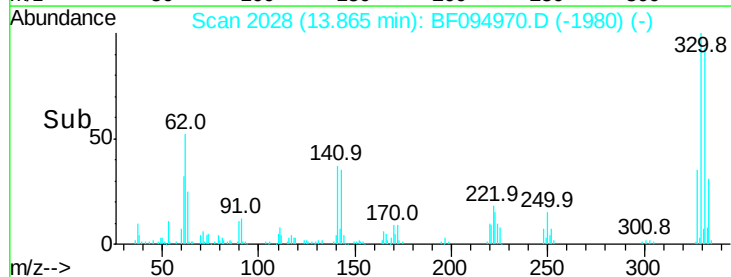
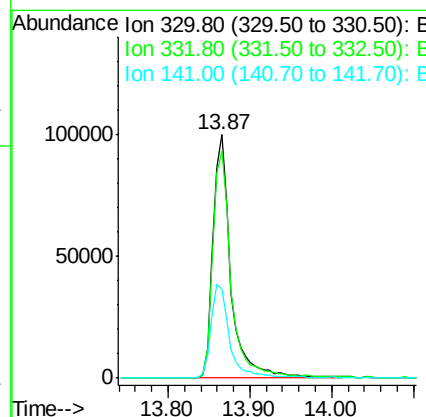
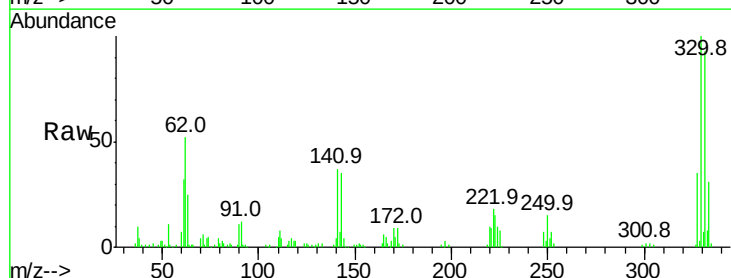
Manual Integrations  
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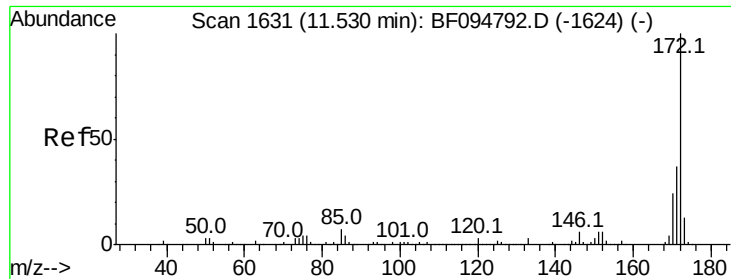
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#41  
 2,4,6-Tribromophenol  
 Concen: 103.51 ng  
 RT: 13.87 min Scan# 2028  
 Delta R.T. -0.02 min  
 Lab File: BF094970.D  
 Acq: 8 May 2017 5:42

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 152325 |       |       |
| 332     | 95.6  | 76.6   | 115.0 |       |
| 141     | 39.6  | 31.4   | 47.2  |       |





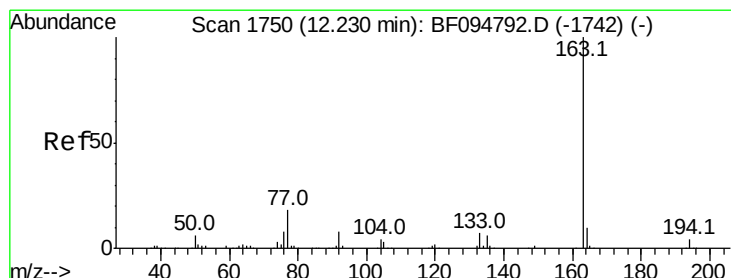
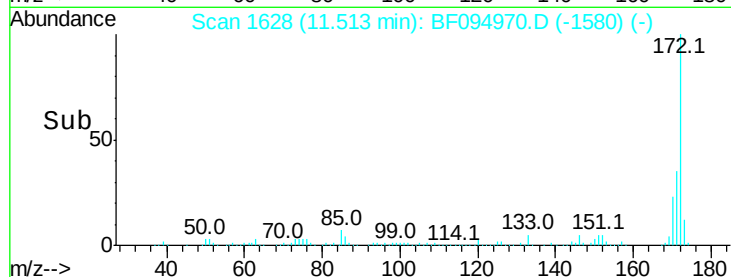
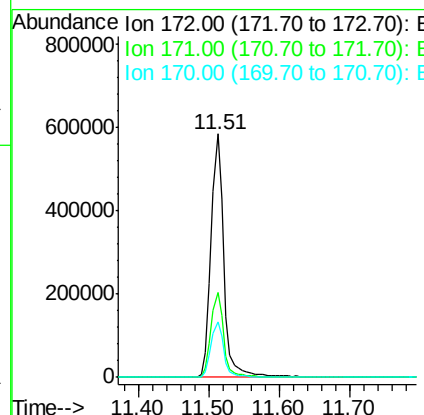
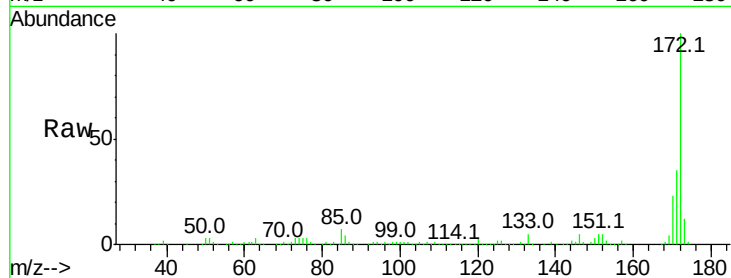
#44  
2-Fluorobiphenyl  
Concen: 59.58 ng  
RT: 11.51 min Scan# 1628  
Delta R.T. -0.02 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05-0-2.0

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 743715 |       |       |
| 171     | 34.9  |        | 29.6  | 44.4  |
| 170     | 23.0  |        | 19.8  | 29.8  |

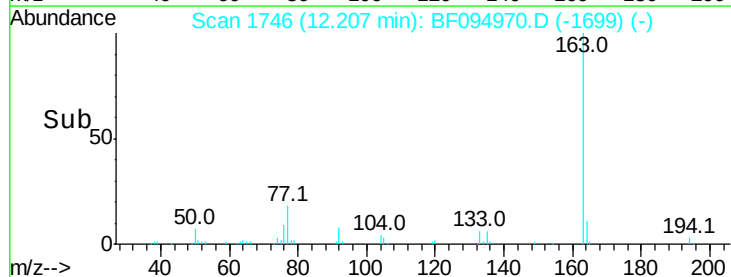
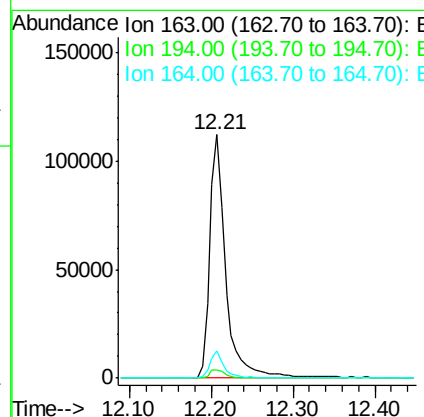
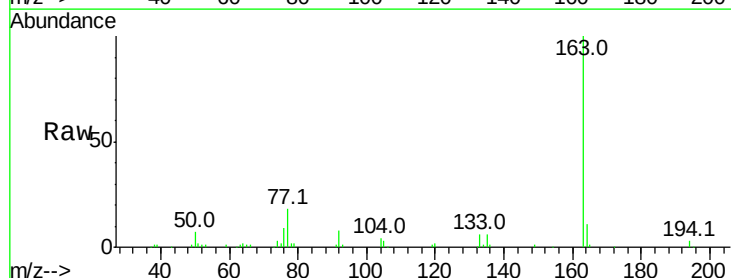
Manual Integrations  
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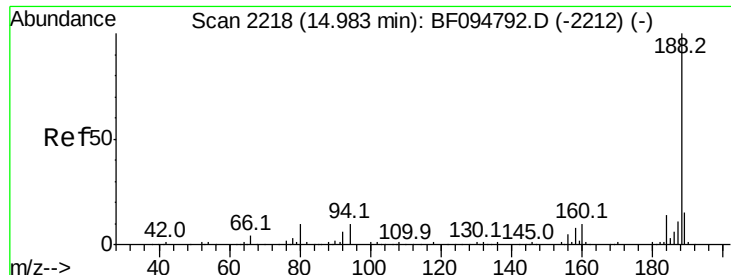
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#49  
Dimethylphthalate  
Concen: 10.44 ng  
RT: 12.21 min Scan# 1746  
Delta R.T. -0.02 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 154021 |       |       |
| 194     | 3.4   |        | 2.6   | 4.0   |
| 164     | 11.0  |        | 8.4   | 12.6  |





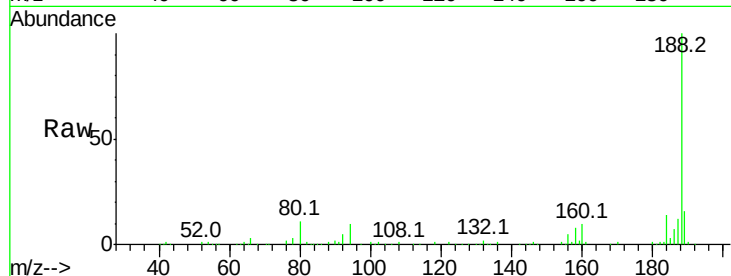
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 14.97 min Scan# 2216  
Delta R.T. -0.01 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05-0-2.0

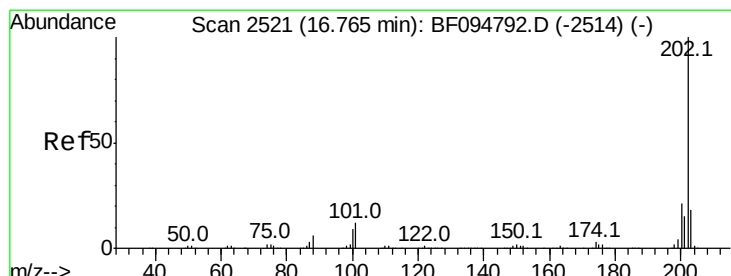
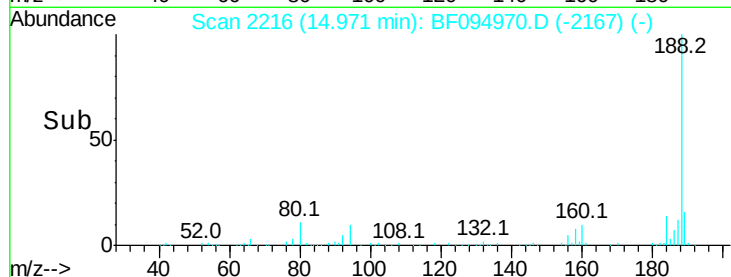
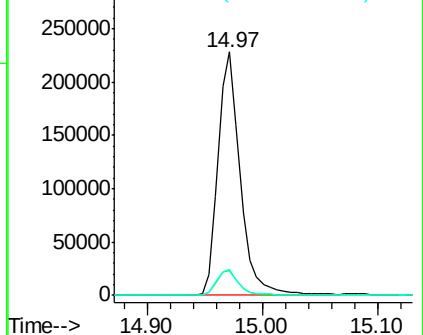
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 305942 |       |       |
| 94      | 10.3  |        | 9.4   | 14.2  |
| 80      | 10.6  |        | 10.2  | 15.2  |

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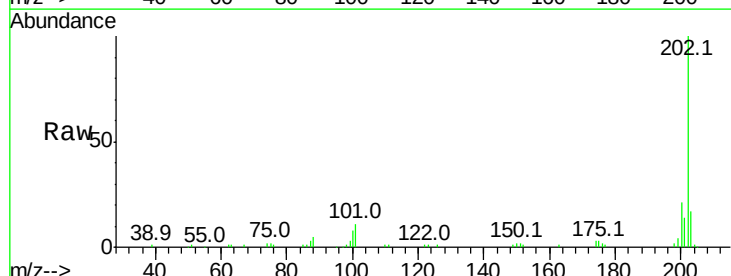


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

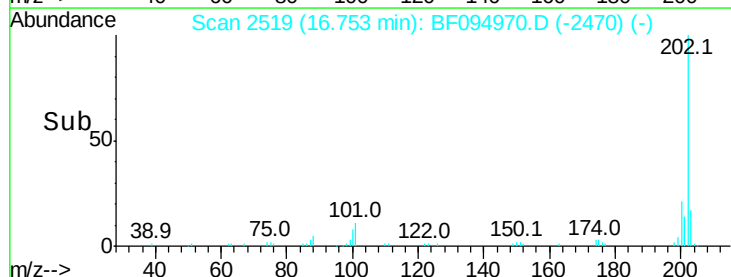
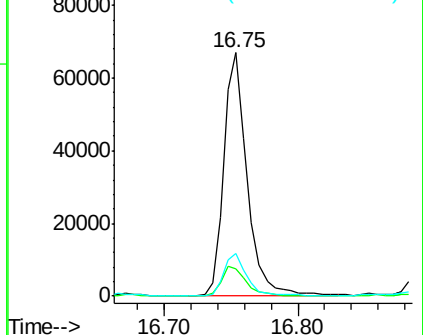


#74  
Fluoranthene  
Concen: 4.59 ng  
RT: 16.75 min Scan# 2519  
Delta R.T. -0.01 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

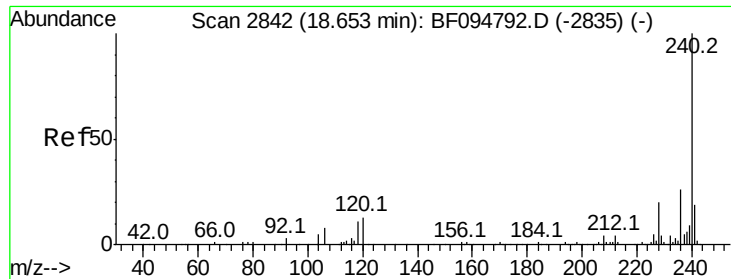
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 82706 |       |       |
| 101     | 11.3  |       | 0.0   | 33.2  |
| 203     | 17.3  |       | 0.0   | 38.1  |



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







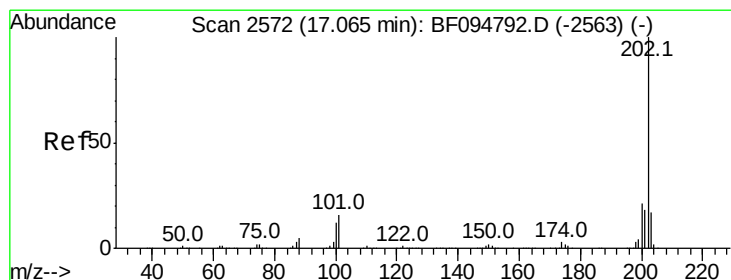
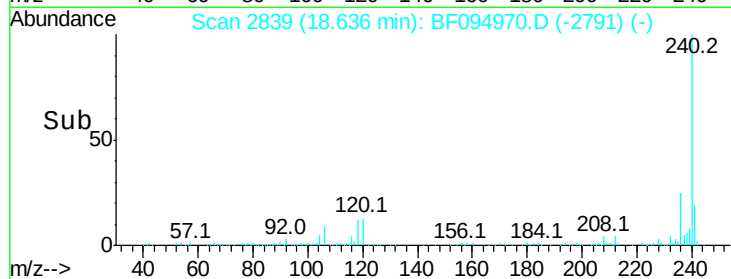
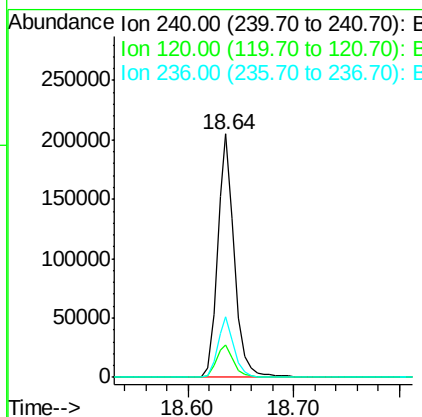
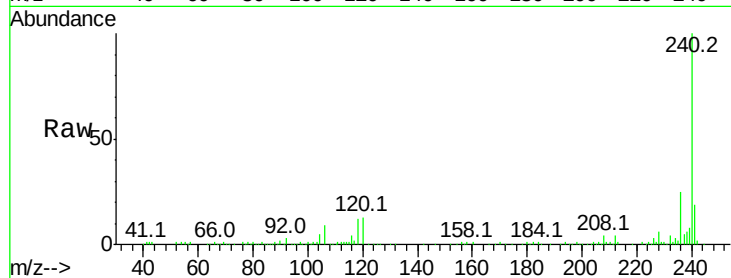
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 18.64 min Scan# 2839  
Delta R.T. -0.02 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05-0-2.0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.3  | 5.8   | 8.8#  |
| 236     | 24.7  | 20.5  | 30.7  |

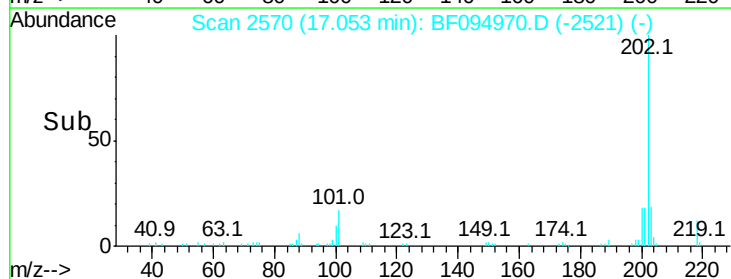
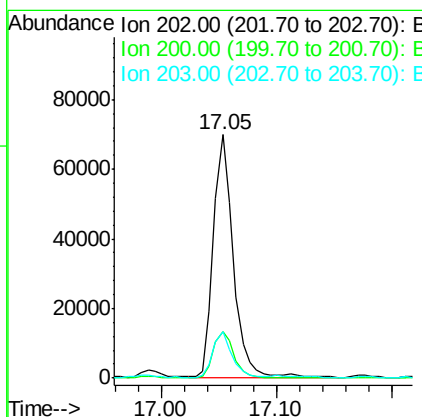
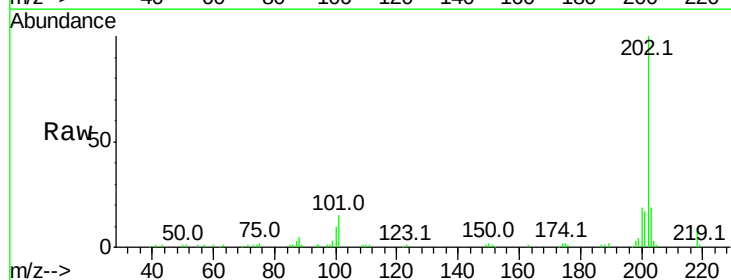
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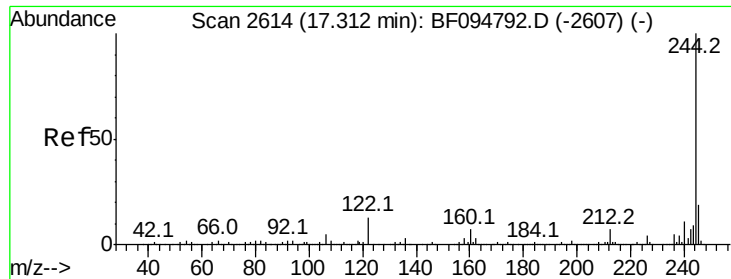
mohammad  
5/8/2017 5:51:33 PM



#77  
Pyrene  
Concen: 5.02 ng  
RT: 17.05 min Scan# 2570  
Delta R.T. -0.01 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 18.9  | 17.6  | 26.4  |
| 203     | 19.0  | 14.4  | 21.6  |





#78

Terphenyl-d14

Concen: 49.79 ng

RT: 17.29 min Scan# 2611

Delta R.T. -0.02 min

Lab File: BF094970.D

Acq: 8 May 2017 5:42

Instrument :

BNA\_F

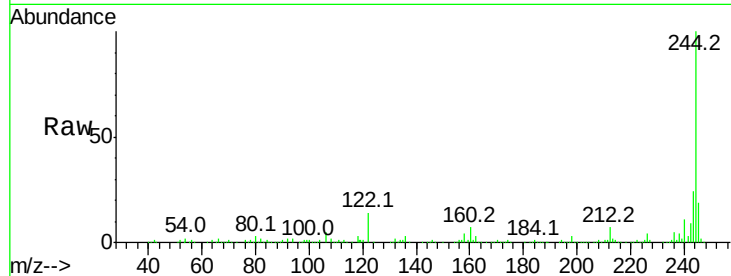
ClientSampleId :

SB-05-0-2.0

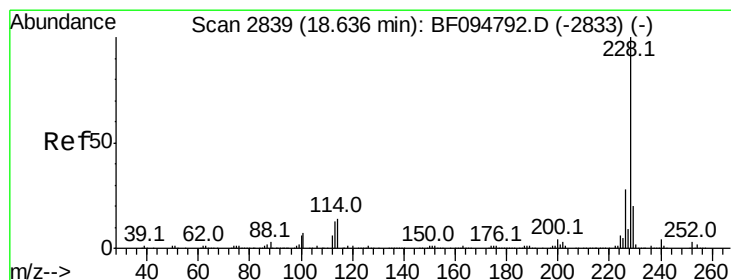
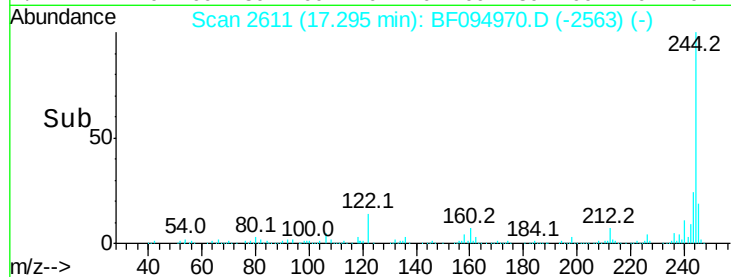
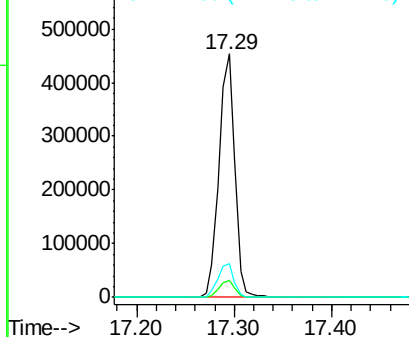
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 6.0   | 9.0   |
| 122     | 14.1  | 10.3  | 15.5  |

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Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 3.38 ng m

RT: 18.62 min Scan# 2837

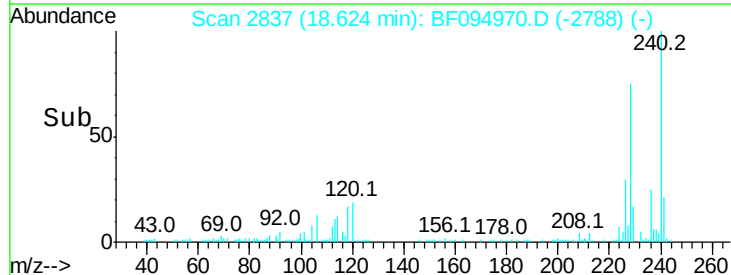
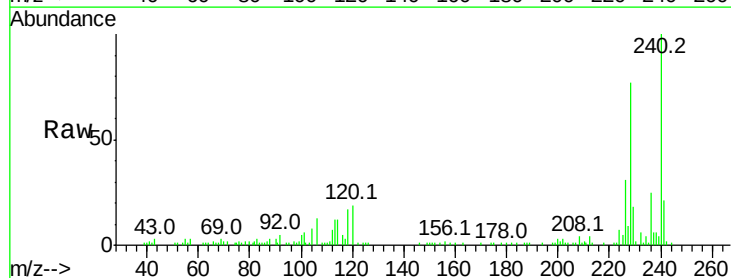
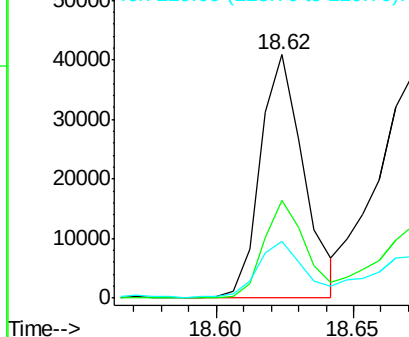
Delta R.T. -0.01 min

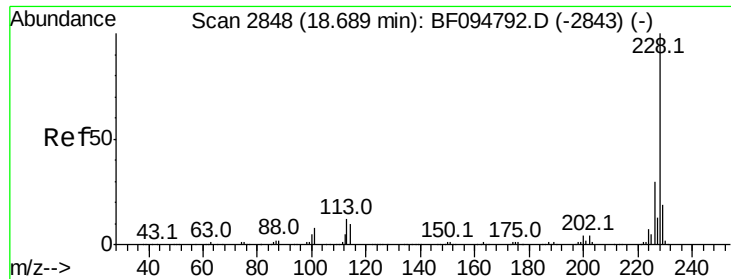
Lab File: BF094970.D

Acq: 8 May 2017 5:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 40.1  | 22.6  | 33.8# |
| 229     | 23.2  | 16.3  | 24.5  |

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





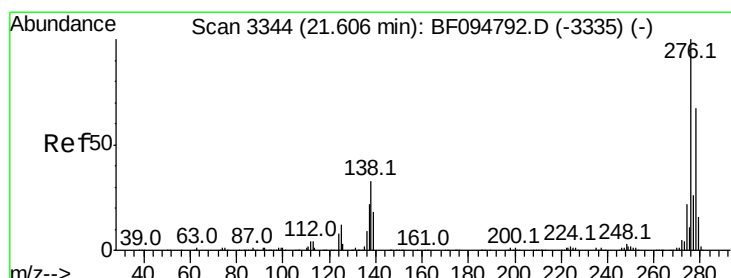
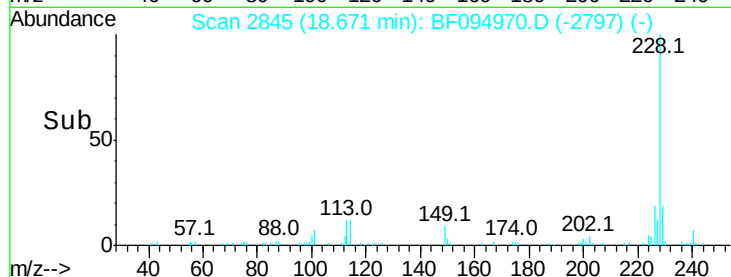
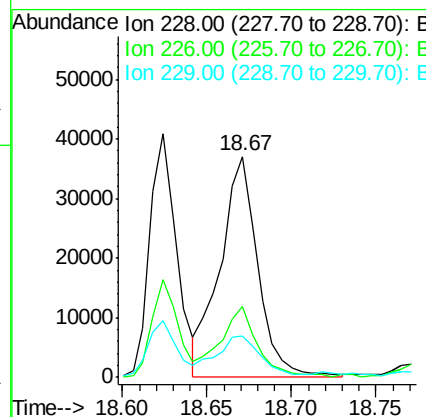
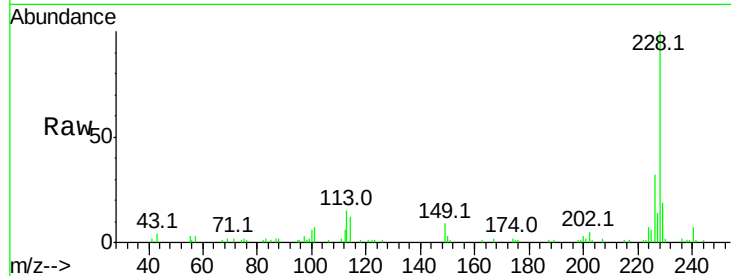
#82  
Chrysene  
Concen: 4.54 ng  
RT: 18.67 min Scan# 2845  
Delta R.T. -0.02 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

Instrument :  
BNA\_F  
ClientSampled :  
SB-05-0-2.0

|             |       |       |
|-------------|-------|-------|
| Tot Ion:228 | Resp: | 58100 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 31.9    | 24.9  | 37.3  |
| 229 18.7    | 15.8  | 23.6  |

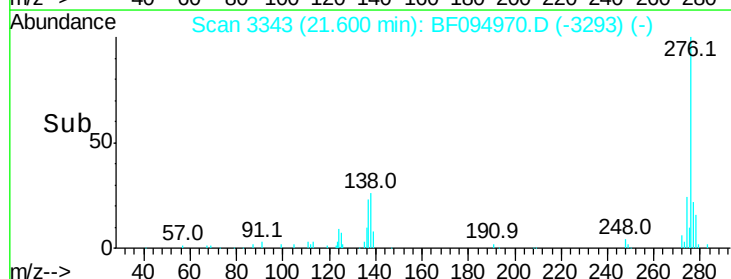
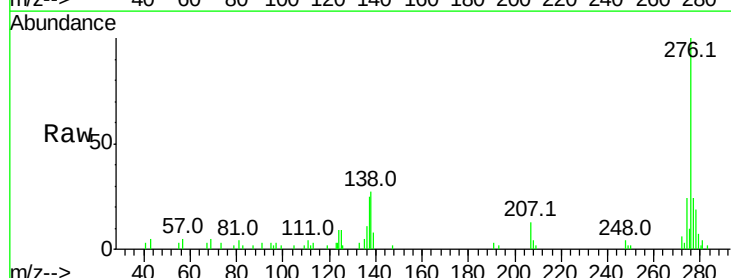
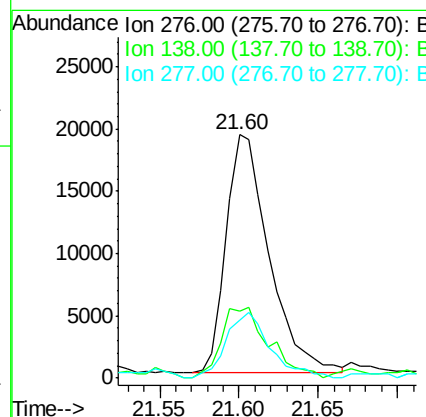
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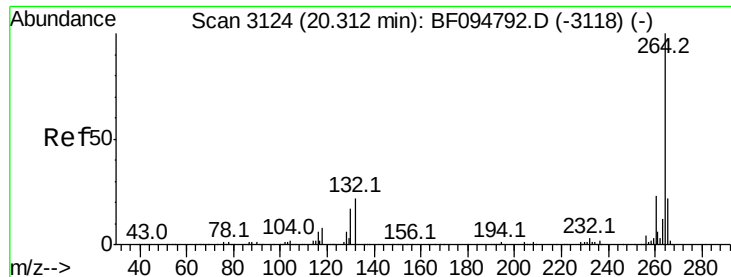
mohammad  
5/8/2017 5:51:33 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.47 ng  
RT: 21.60 min Scan# 3343  
Delta R.T. -0.01 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:276 | Resp: | 36053 |
| Ion Ratio   | Lower | Upper |
| 276 100     |       |       |
| 138 32.9    | 27.8  | 41.6  |
| 277 28.2    | 20.2  | 30.4  |





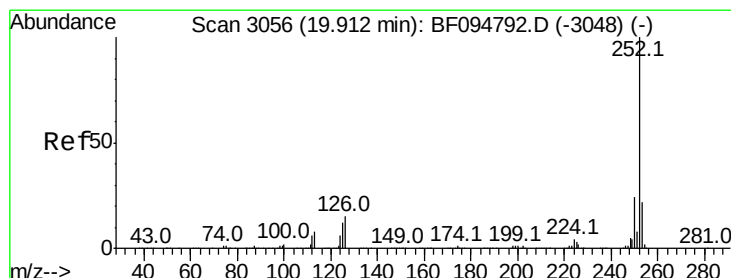
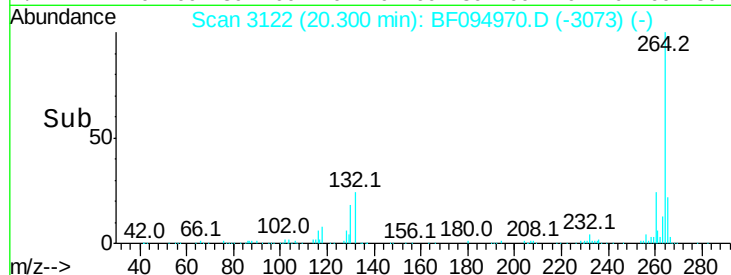
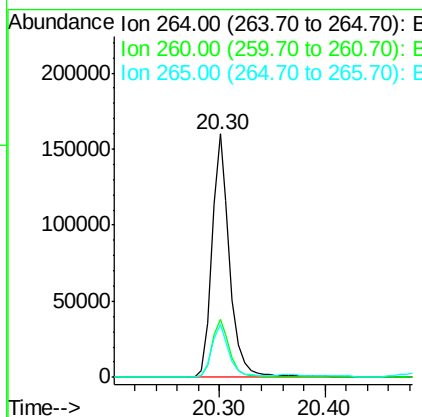
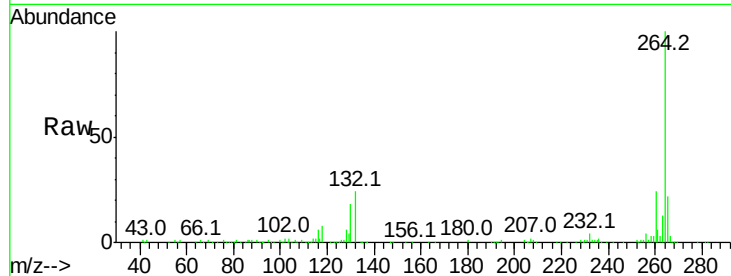
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 20.30 min Scan# 3122  
Delta R.T. -0.01 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05-0-2.0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.5  | 29.3  |
| 265     | 21.7  | 17.2  | 25.8  |

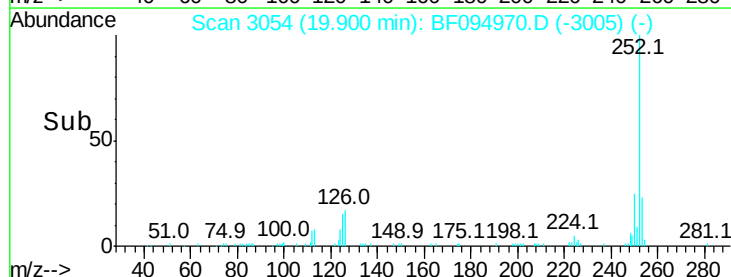
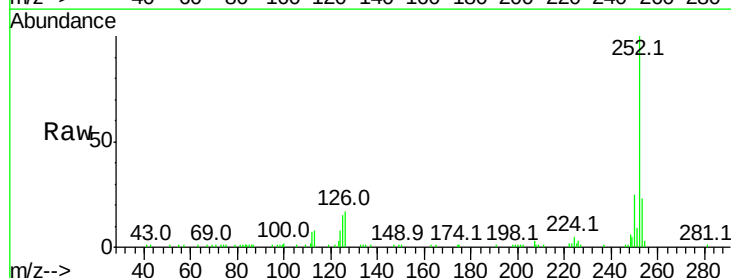
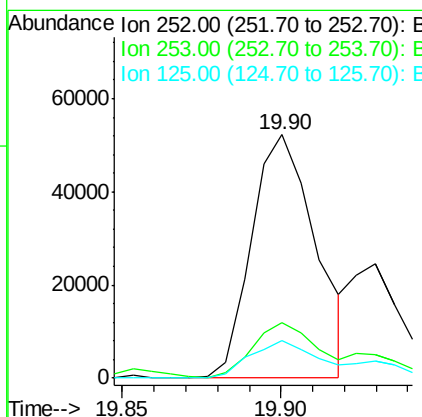
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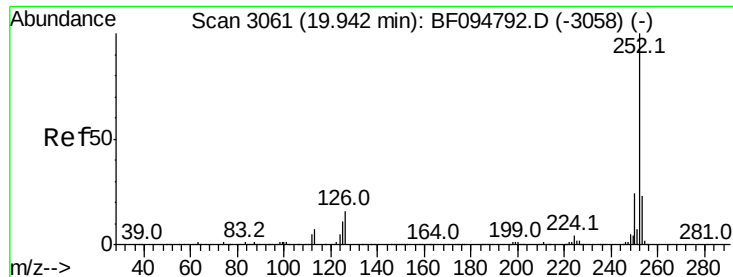
mohammad  
5/8/2017 5:51:33 PM



#87  
Benzo(b)fluoranthene  
Concen: 6.30 ng  
RT: 19.90 min Scan# 3054  
Delta R.T. -0.01 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 18.1  | 27.1  |
| 125     | 15.4  | 9.8   | 14.8  |





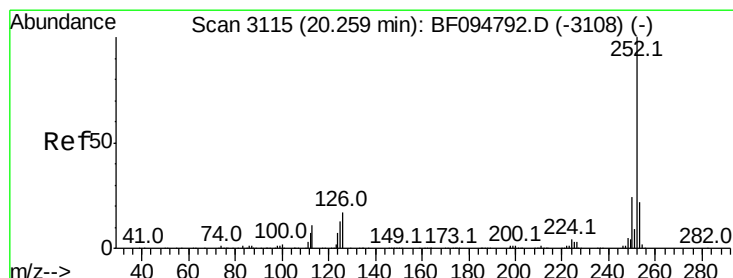
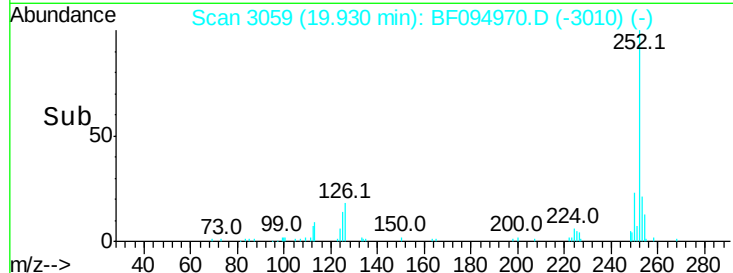
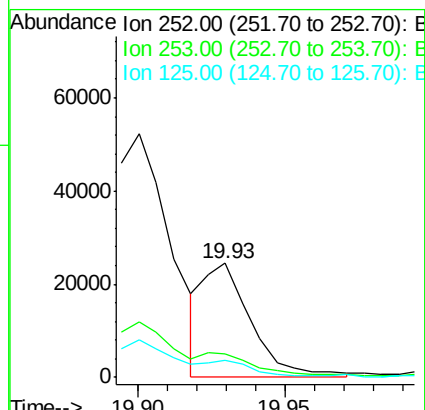
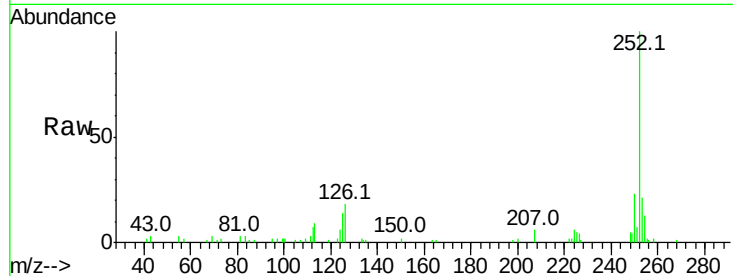
#88  
Benzo(k)fluoranthene  
Concen: 2.42 ng m  
RT: 19.93 min Scan# 3059  
Delta R.T. -0.01 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05-0-2.0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 27263 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 20.7  | 18.4  | 27.6  |
| 125       | 14.4  | 13.1  | 19.7  |

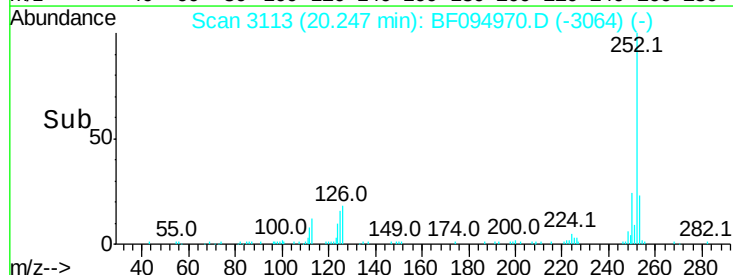
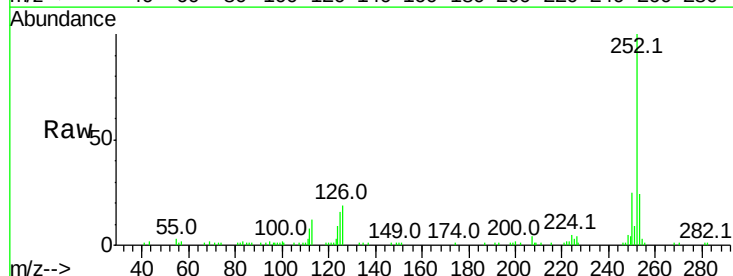
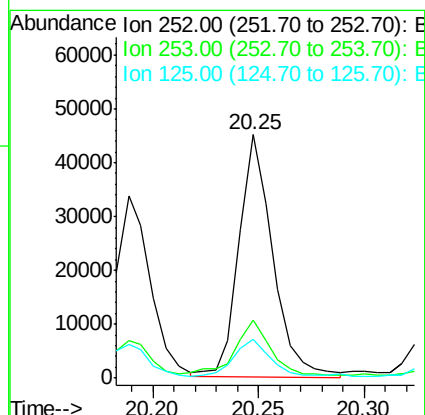
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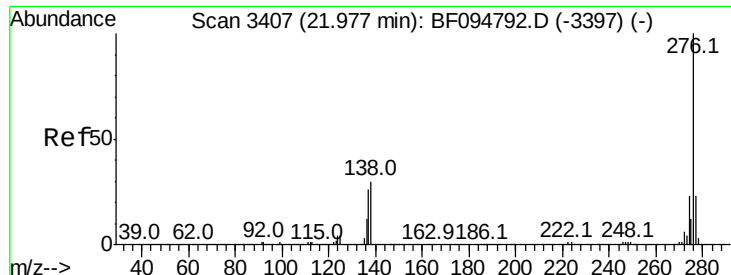
mohammad  
5/8/2017 5:51:33 PM



#89  
Benzo(a)pyrene  
Concen: 4.64 ng  
RT: 20.25 min Scan# 3113  
Delta R.T. -0.01 min  
Lab File: BF094970.D  
Acq: 8 May 2017 5:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 49925 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.8  | 17.5  | 26.3  |
| 125       | 16.1  | 11.0  | 16.4  |





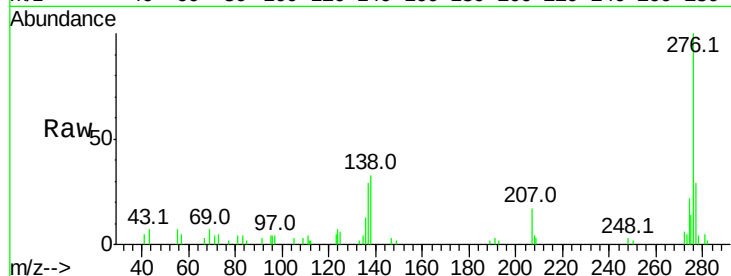
#91  
 Benzo(a,h,i)perylene  
 Concen: 4.31 ng  
 RT: 21.98 min Scan# 3407  
 Delta R.T. 0.00 min  
 Lab File: BF094970.D  
 Acq: 8 May 2017 5:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-05-0-2.0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 29.0  | 18.6  | 28.0# |
| 138     | 32.9  | 25.4  | 38.0  |

Manual Integrations  
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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

