

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011617\  
 Data File : BF092304.D  
 Acq On : 17 Jan 2017 00:14  
 Operator : UM/SJ  
 Sample : I1182-01  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TOD-BC-0.2

Manual Integrations  
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 1/17/2017 4:58:03 PM

Quant Time: Jan 17 02:27:46 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 17 00:52:12 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.56  | 152  | 189195   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.84  | 136  | 738500   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.59  | 164  | 376459   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.07 | 188  | 616265   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.70 | 240  | 468042   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.05 | 264  | 512757   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.16  | 112  | 1168895  | 103.16 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.23  | 99   | 1344464  | 97.19  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.14  | 82   | 893239   | 67.26  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.38 | 330  | 273540   | 87.80  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 8.93  | 172  | 1287965  | 67.43  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.66 | 244  | 941753   | 48.80  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 10) Phenol                     | 6.24  | 94   | 65049    | 4.13   | ng    | 84       |
| 49) Dimethylphthalate          | 9.33  | 163  | 267930   | 11.13  | ng    | 100      |
| 70) Phenanthrene               | 11.09 | 178  | 288798   | 8.64   | ng    | 96       |
| 74) Fluoranthene               | 12.28 | 202  | 401321   | 10.78  | ng    | 95       |
| 77) Pyrene                     | 12.50 | 202  | 369187   | 10.75  | ng    | 97       |
| 80) Benzo(a)anthracene         | 13.69 | 228  | 222269   | 8.41   | ng    | 99       |
| 82) Chrysene                   | 13.72 | 228  | 152970   | 5.77   | ng    | 96       |
| 83) Bis(2-ethylhexyl)phthalate | 13.70 | 149  | 51260    | 2.79   | ng    | 95       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.28 | 276  | 121187   | 5.28   | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 14.69 | 252  | 241152m  | 7.55   | ng    |          |
| 88) Benzo(k)fluoranthene       | 14.71 | 252  | 94135m   | 3.46   | ng    |          |
| 89) Benzo(a)pyrene             | 15.00 | 252  | 179224   | 6.33   | ng    | 97       |
| 91) Benzo(a,h,i)perylene       | 16.65 | 276  | 108136   | 4.47   | ng    | # 93     |

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

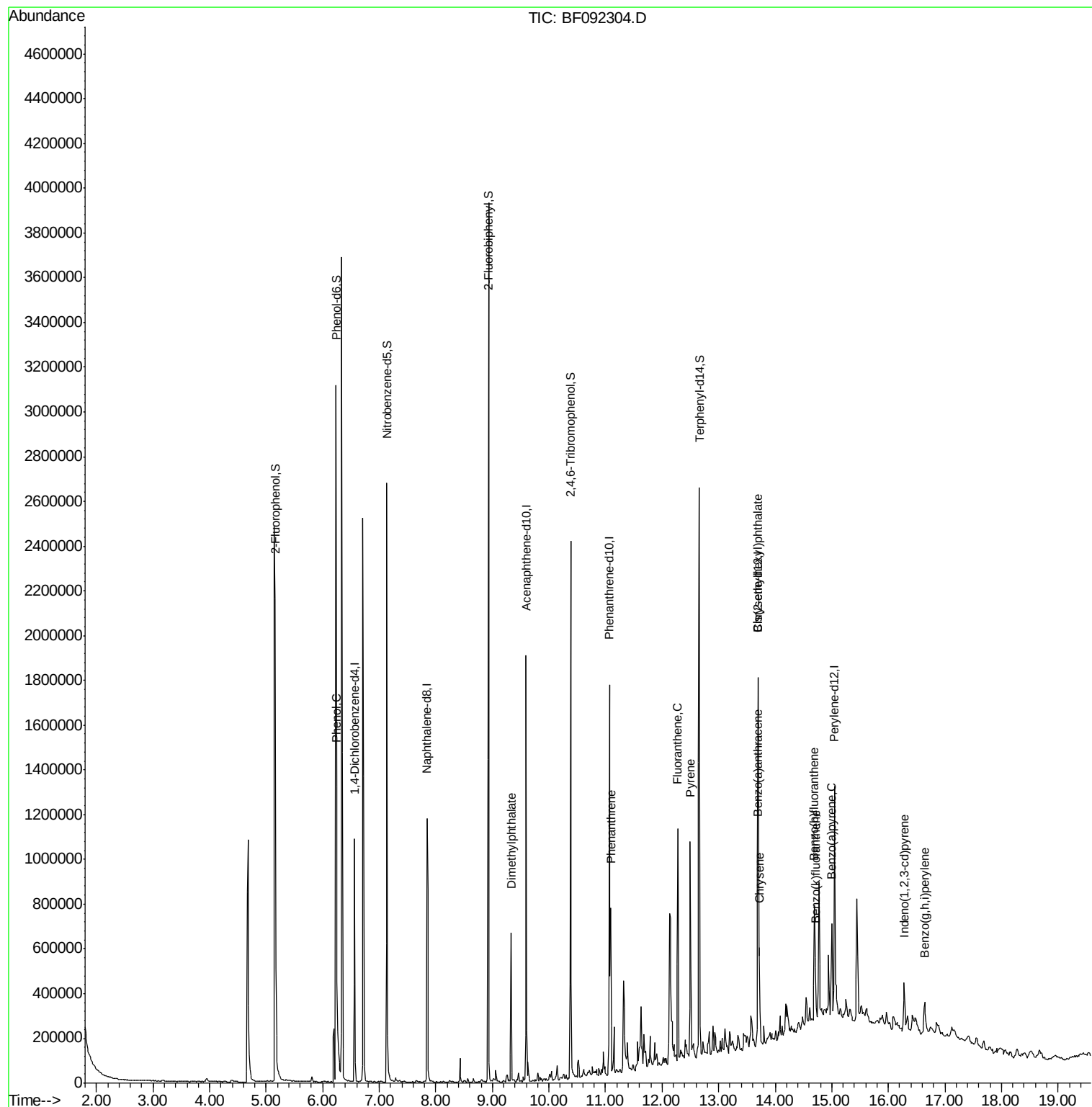
Data Path : Z:\HPCHEM1\BNA F\DATA\BF011617\  
Data File : BF092304.D  
Acq On : 17 Jan 2017 00:14  
Operator : UM/SJ  
Sample : I1182-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

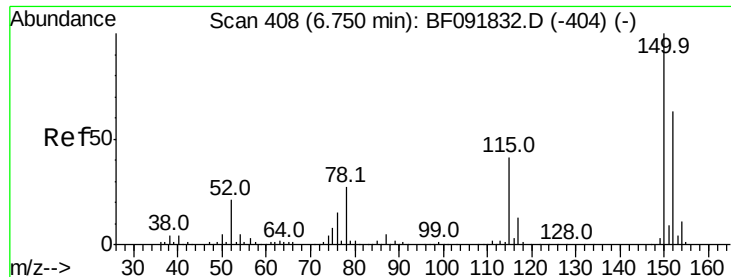
Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

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Quant Time: Jan 17 02:27:46 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 17 00:52:12 2017  
Response via : Initial Calibration





#1

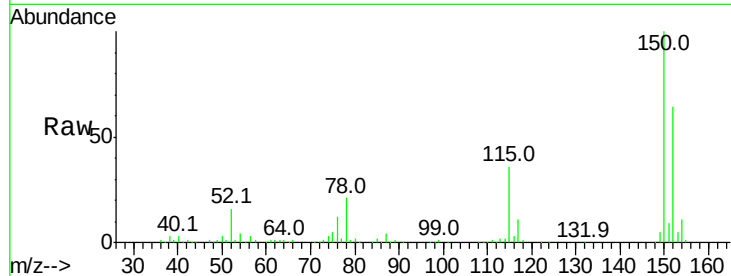
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.56 min Scan# 418  
Delta R.T. -0.00 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.1 | 124.9 | 187.3 |
| 115     | 56.2  | 46.0  | 69.0  |

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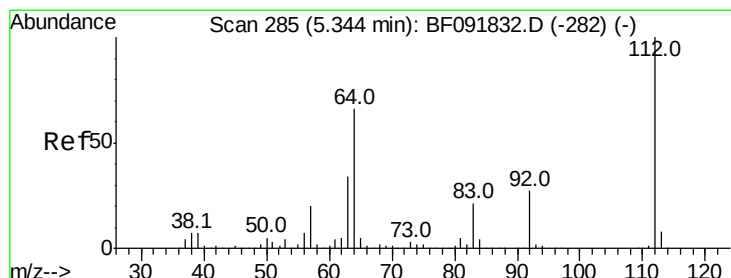
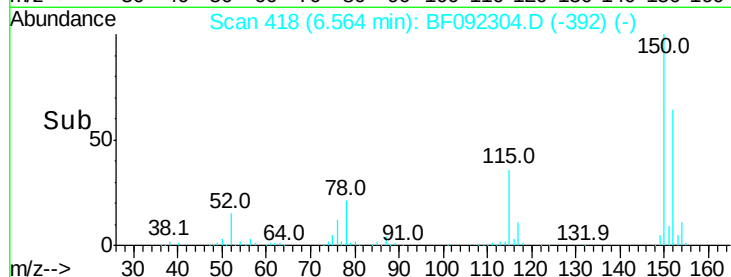
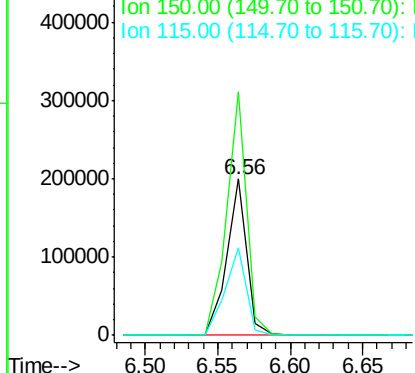


Abundance

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



#5

2-Fluorophenol  
Concen: 103.16 ng  
RT: 5.16 min Scan# 295  
Delta R.T. 0.01 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

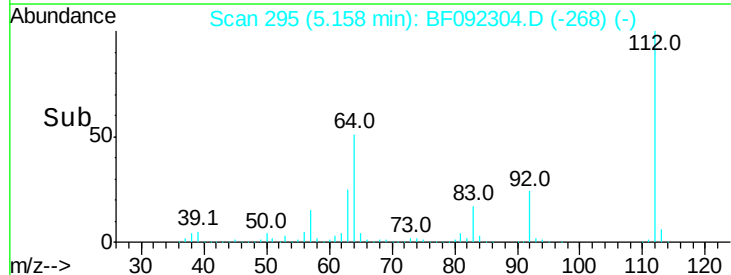
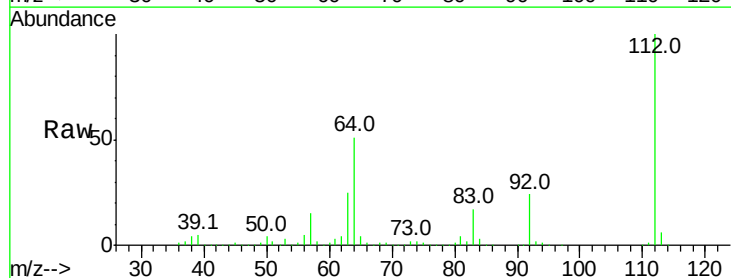
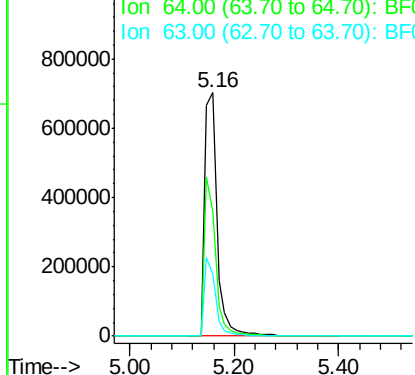
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 51.3  | 46.1  | 69.1  |
| 63      | 25.3  | 23.8  | 35.6  |

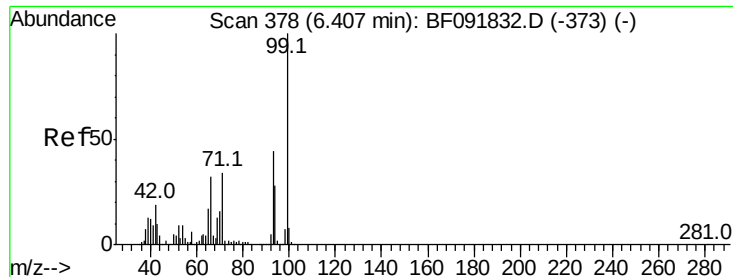
Abundance

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





#7

Phenol-d6

Concen: 97.19 ng

RT: 6.23 min Scan# 389

Delta R.T. -0.00 min

Lab File: BF092304.D

Acq: 17 Jan 2017 00:14

Instrument :

BNA\_F

ClientSampleId :

TOD-BC-0.2

Tot Ion: 99 Resp: 1344464

Ion Ratio Lower Upper

99 100

42 19.2 15.6 23.4

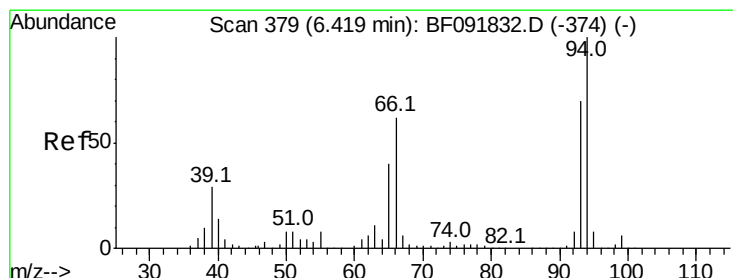
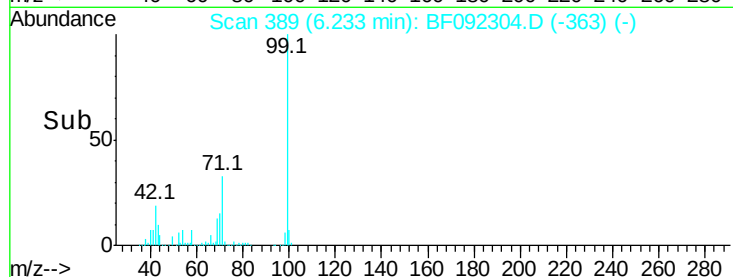
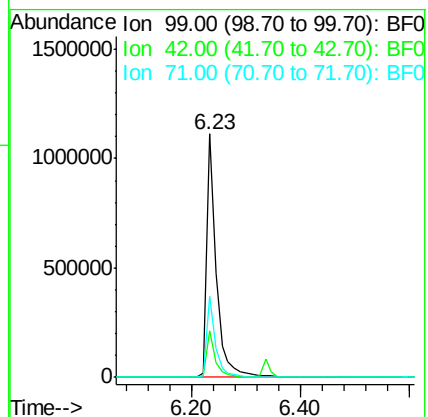
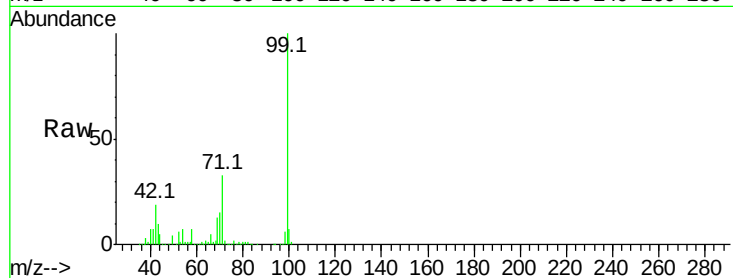
71 33.2 27.5 41.3

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#10

Phenol

Concen: 4.13 ng

RT: 6.24 min Scan# 390

Delta R.T. -0.00 min

Lab File: BF092304.D

Acq: 17 Jan 2017 00:14

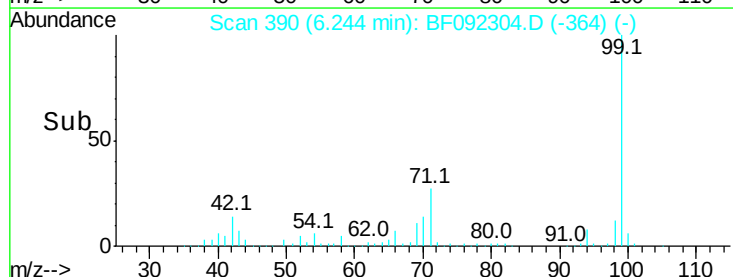
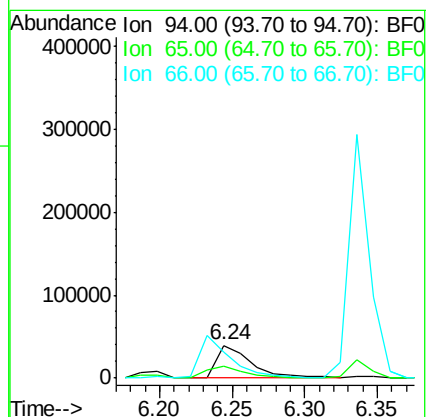
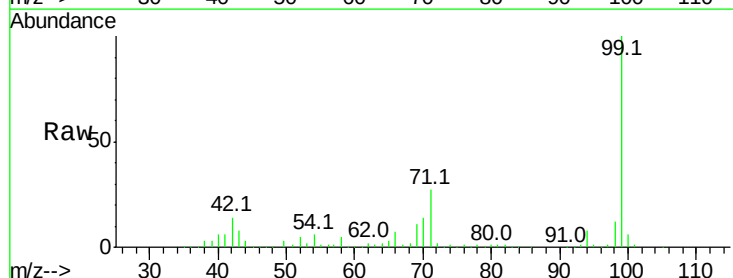
Tgt Ion: 94 Resp: 65049

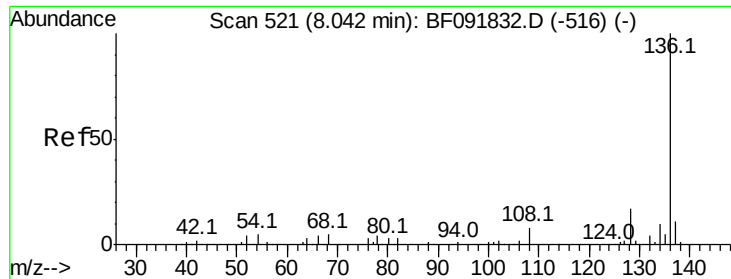
Ion Ratio Lower Upper

94 100

65 37.3 21.4 61.4

66 81.3 44.0 84.0





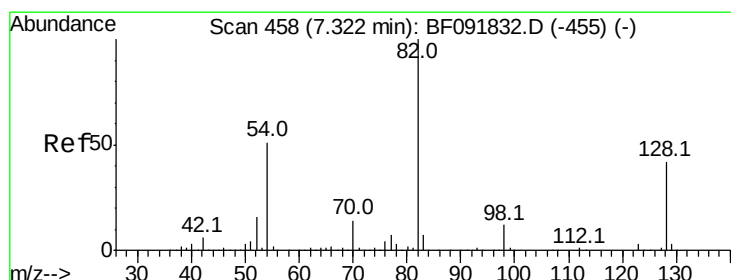
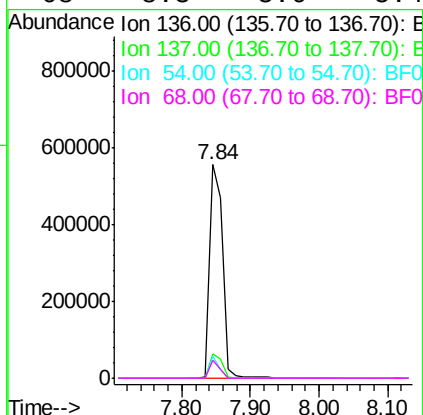
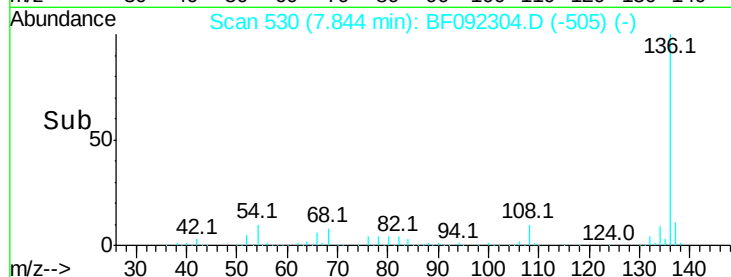
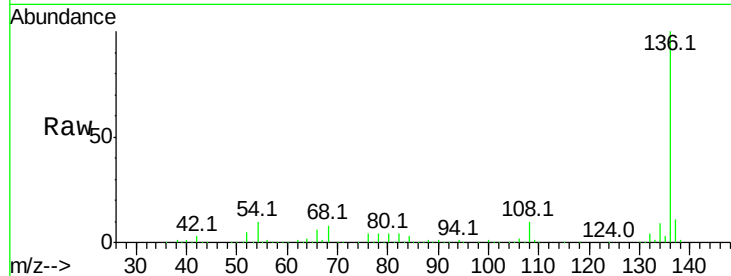
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.84 min Scan# 530  
Delta R.T. -0.01 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.4  | 8.4  | 12.6  |       |
| 54      | 10.5  | 4.5  | 6.7#  |       |
| 68      | 8.3   | 3.6  | 5.4#  |       |

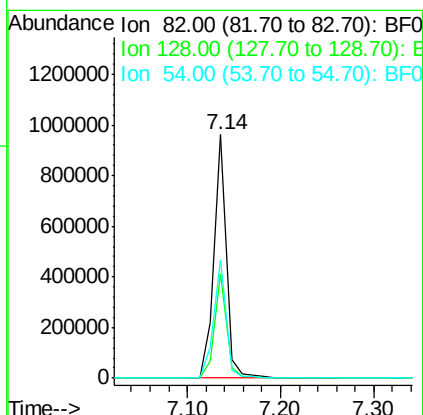
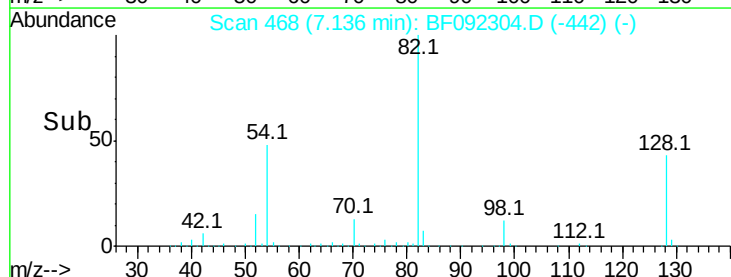
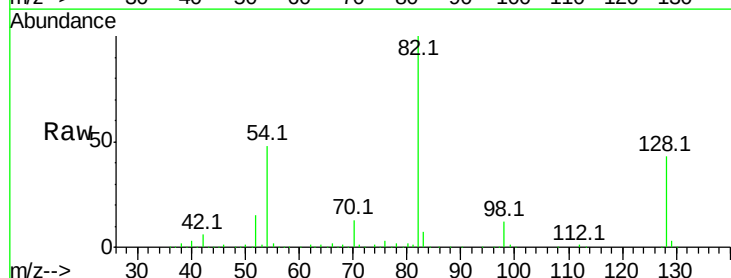
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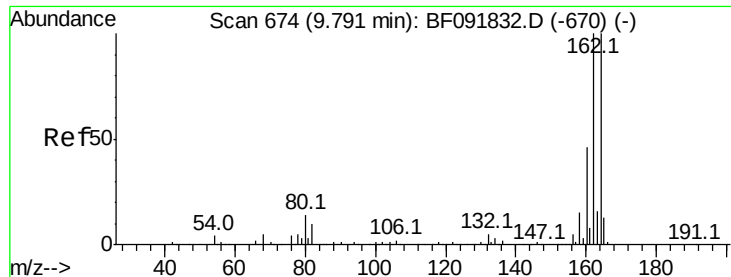
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#23  
Nitrobenzene-d5  
Concen: 67.26 ng  
RT: 7.14 min Scan# 468  
Delta R.T. -0.00 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 42.9  | 34.6 | 52.0  |       |
| 54      | 48.3  | 39.5 | 59.3  |       |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.59 min Scan# 683

Delta R.T. -0.01 min

Lab File: BF092304.D

Acq: 17 Jan 2017 00:14

Instrument :

BNA\_F

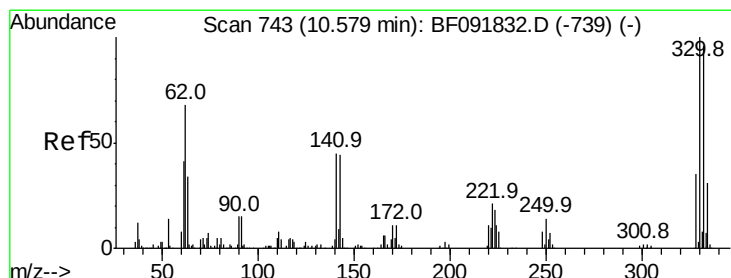
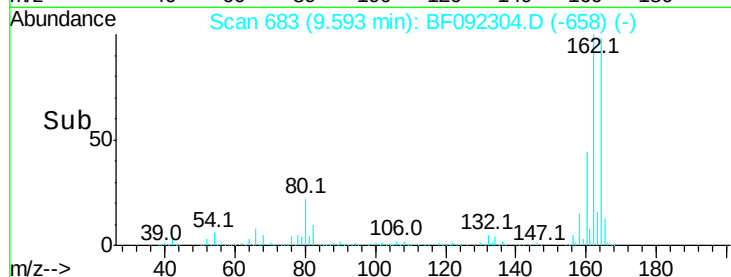
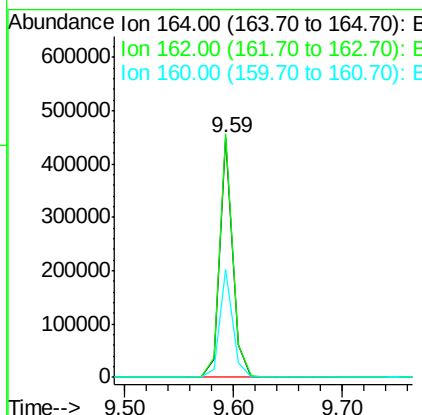
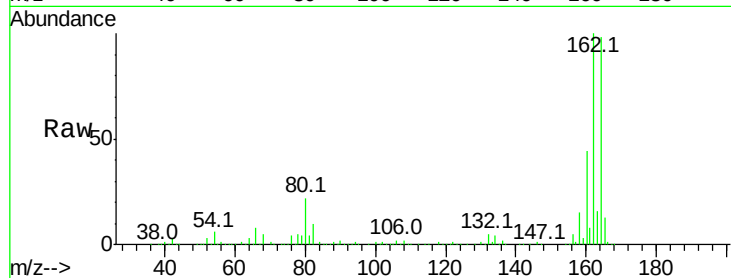
ClientSampleId :

TOD-BC-0.2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 164   | Resp: | 376459 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 101.6 | 80.2  | 120.2  |
| 160       | 45.0  | 36.9  | 55.3   |

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#41

2,4,6-Tribromophenol

Concen: 87.80 ng

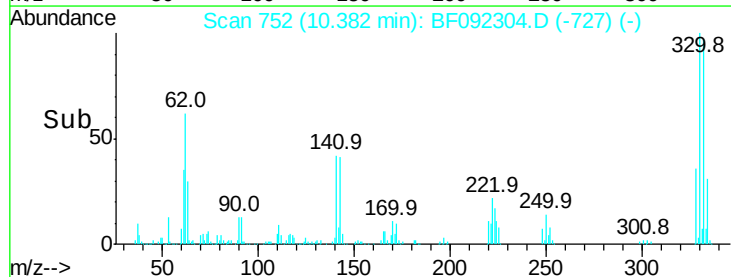
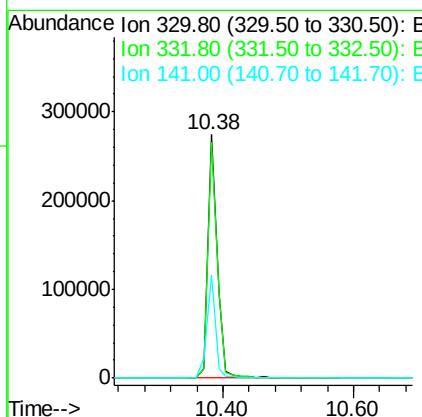
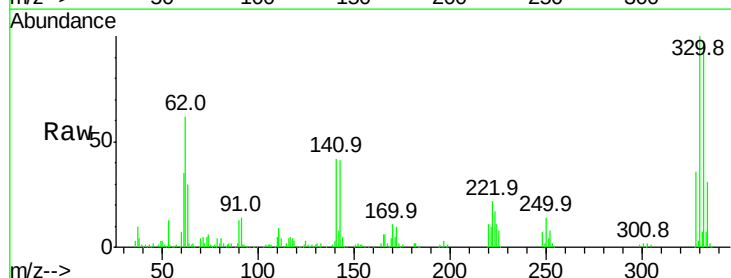
RT: 10.38 min Scan# 752

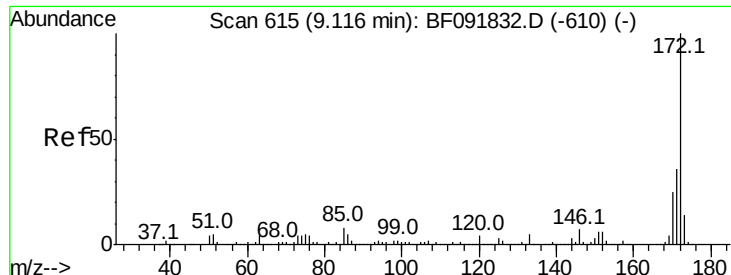
Delta R.T. -0.01 min

Lab File: BF092304.D

Acq: 17 Jan 2017 00:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 273540 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.0  | 77.4  | 116.2  |
| 141       | 38.3  | 34.1  | 51.1   |





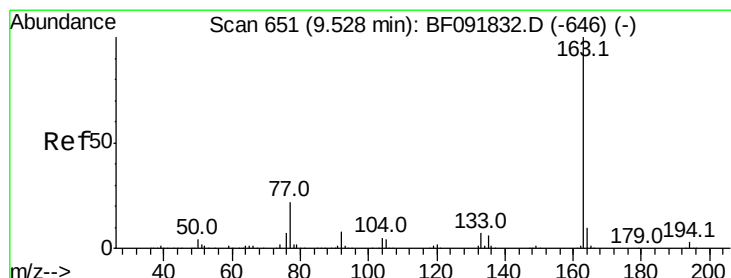
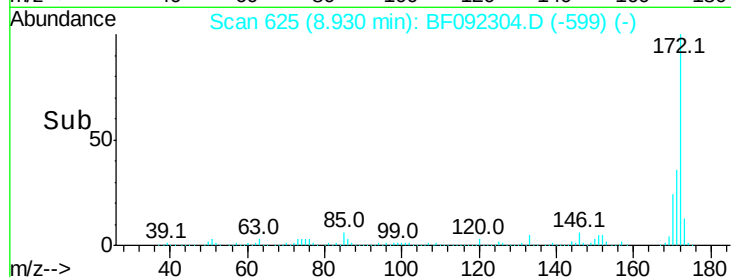
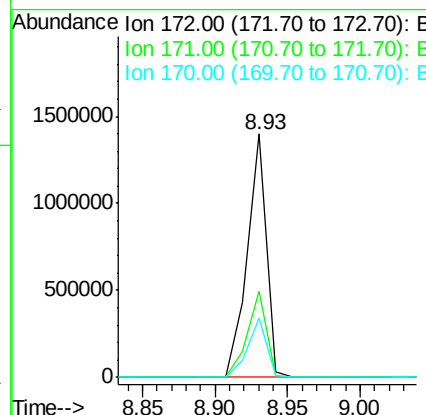
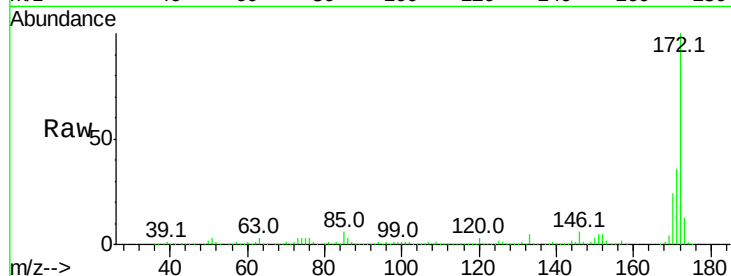
#44  
2-Fluorobiphenyl  
Concen: 67.43 ng  
RT: 8.93 min Scan# 625  
Delta R.T. -0.00 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.6  | 29.4  | 44.0  |
| 170     | 24.2  | 20.2  | 30.4  |

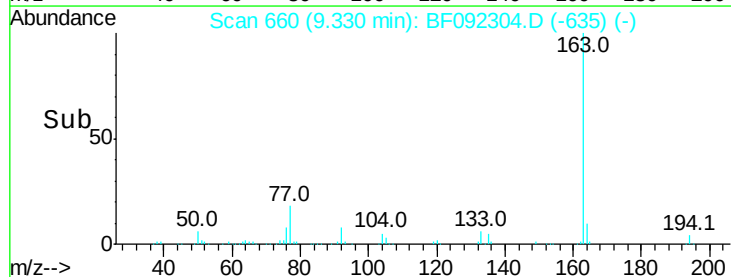
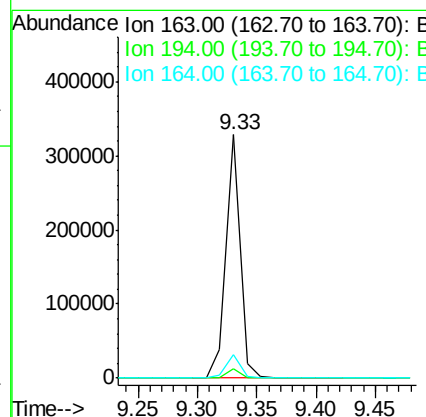
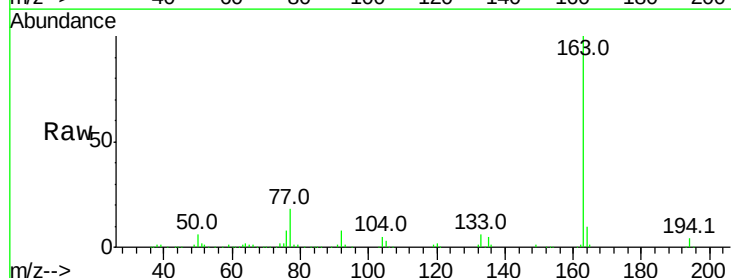
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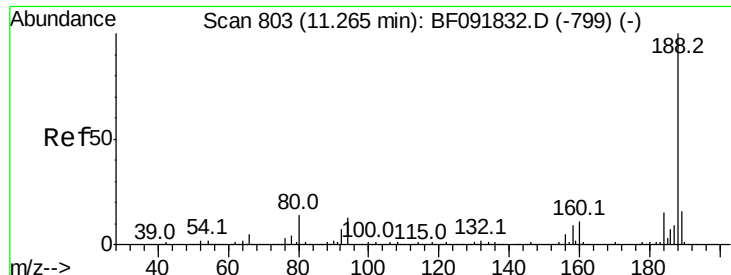
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#49  
Dimethylphthalate  
Concen: 11.13 ng  
RT: 9.33 min Scan# 660  
Delta R.T. -0.01 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.6   | 3.0   | 4.4   |
| 164     | 9.8   | 8.0   | 12.0  |





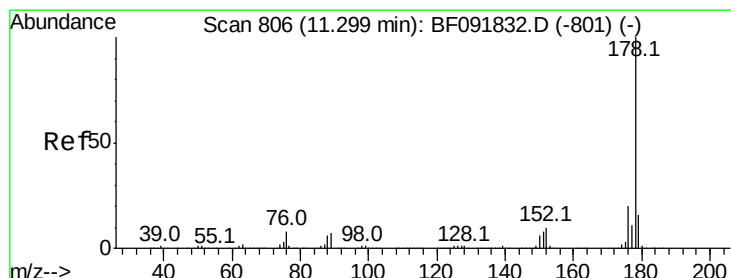
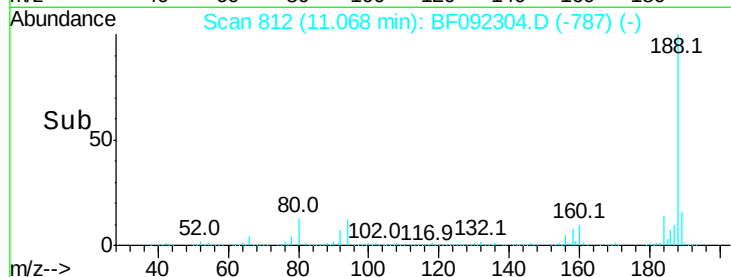
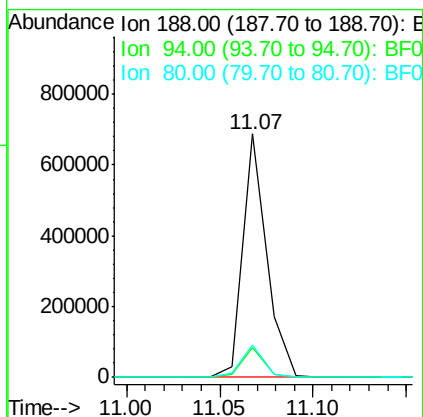
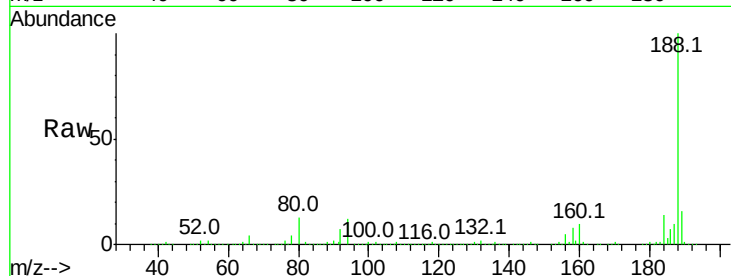
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.07 min Scan# 812  
 Delta R.T. -0.01 min  
 Lab File: BF092304.D  
 Acq: 17 Jan 2017 00:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TOD-BC-0.2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 616265 |       |       |
| 94      | 12.5  | 10.0   | 15.0  |       |
| 80      | 13.2  | 11.2   | 16.8  |       |

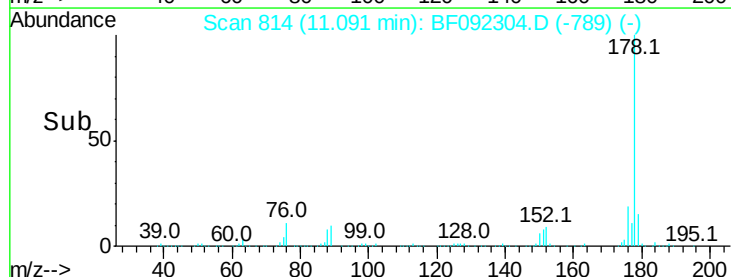
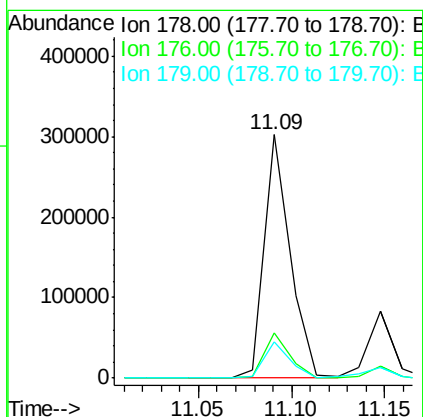
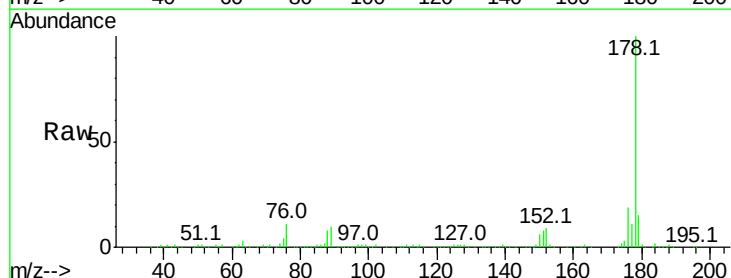
Manual Integrations  
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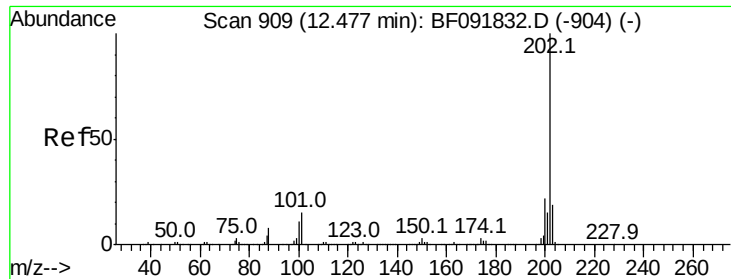


#70  
 Phenanthrene  
 Concen: 8.64 ng  
 RT: 11.09 min Scan# 814  
 Delta R.T. -0.01 min  
 Lab File: BF092304.D  
 Acq: 17 Jan 2017 00:14

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 288798 |       |       |
| 176     | 18.6  | 16.6   | 25.0  |       |
| 179     | 15.1  | 12.8   | 19.2  |       |







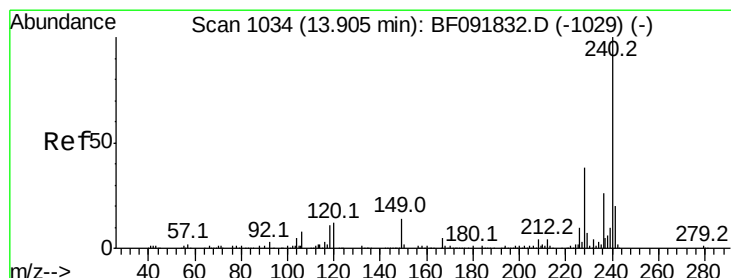
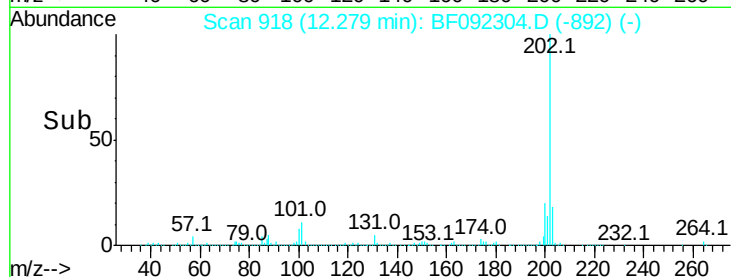
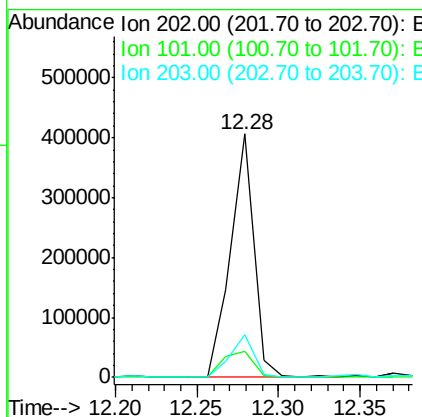
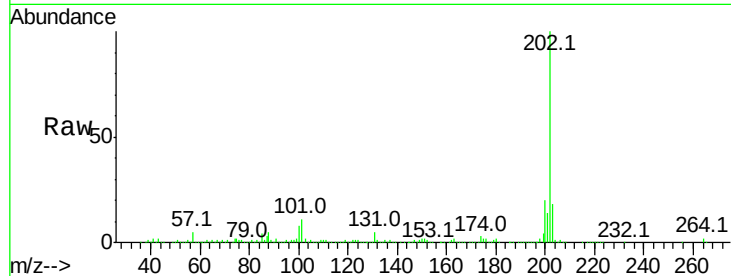
#74  
Fluoranthene  
Concen: 10.78 ng  
RT: 12.28 min Scan# 918  
Delta R.T. -0.00 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.6  | 0.0        | 34.6  |
| 203     | 17.8  | 0.0        | 38.7  |

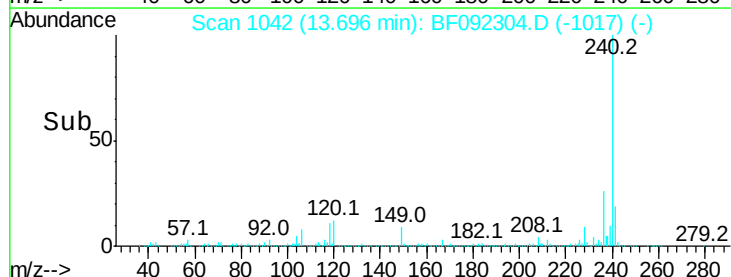
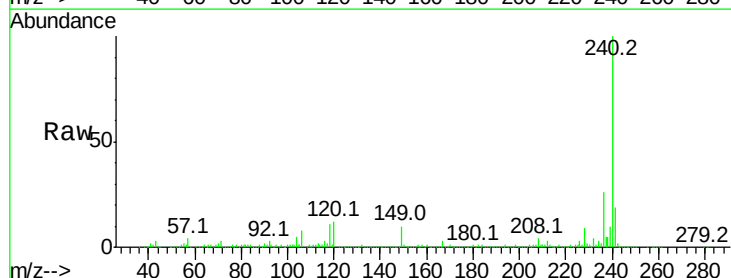
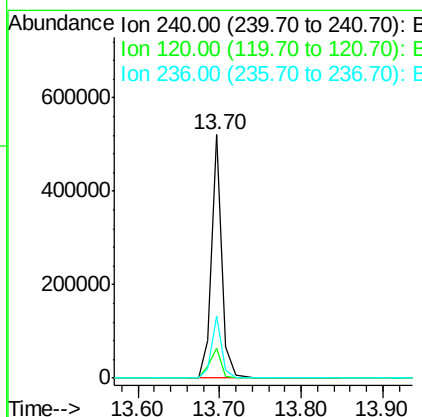
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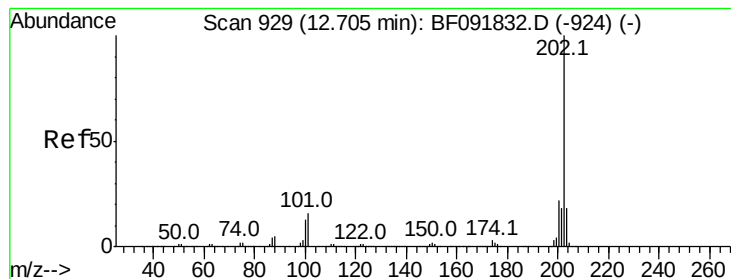
mohammad  
1/17/2017 4:58:03 PM



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.70 min Scan# 1042  
Delta R.T. -0.01 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 12.4  | 12.9       | 19.3# |
| 236     | 25.7  | 20.9       | 31.3  |





#77

Pvrene

Concen: 10.75 ng

RT: 12.50 min Scan# 937

Delta R.T. -0.01 min

Lab File: BF092304.D

Acq: 17 Jan 2017 00:14

Instrument :

BNA\_F

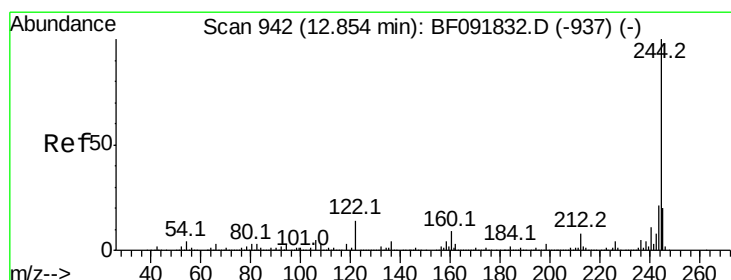
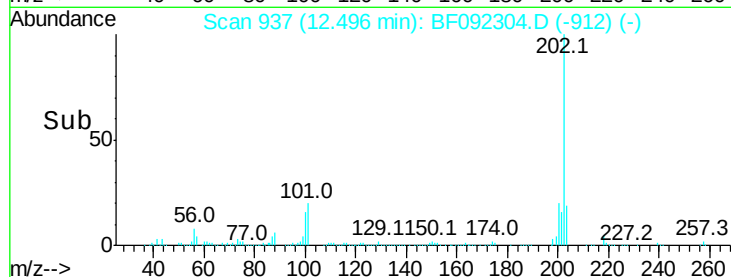
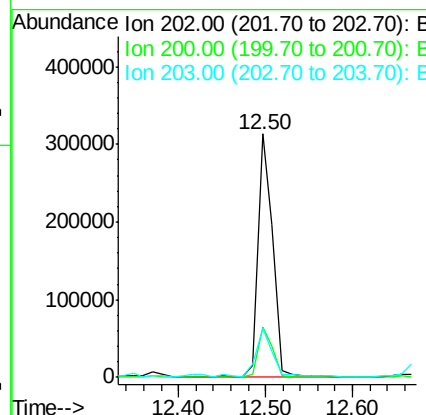
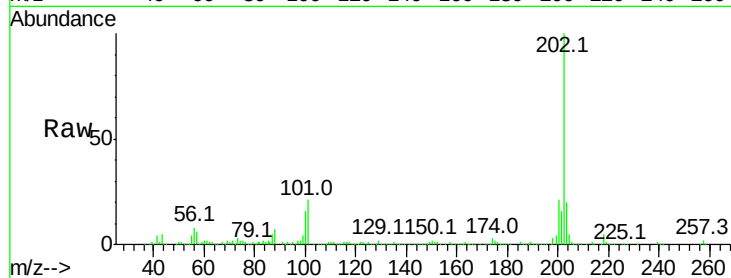
ClientSampleId :

TOD-BC-0.2

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 369187 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 20.5 | 17.7  | 26.5   |
| 203       | 19.9 | 14.7  | 22.1   |

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#78

Terphenyl-d14

Concen: 48.80 ng

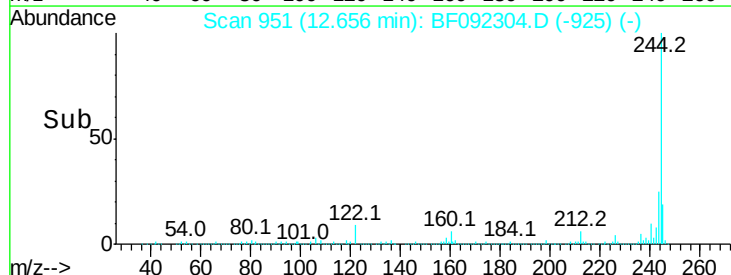
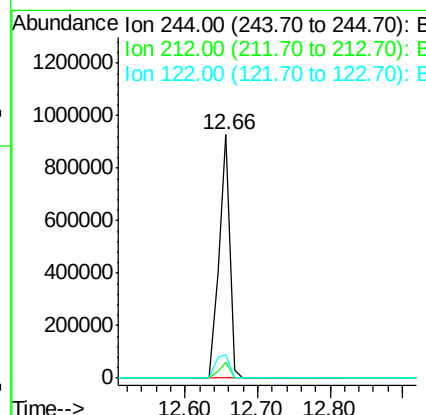
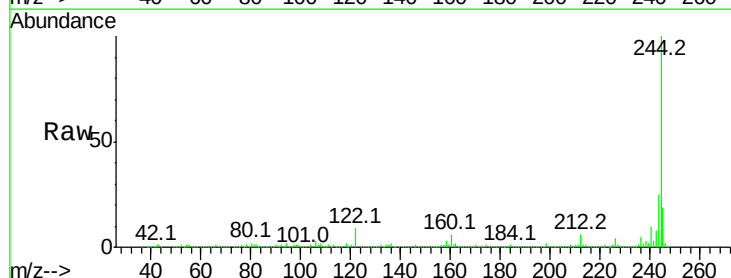
RT: 12.66 min Scan# 951

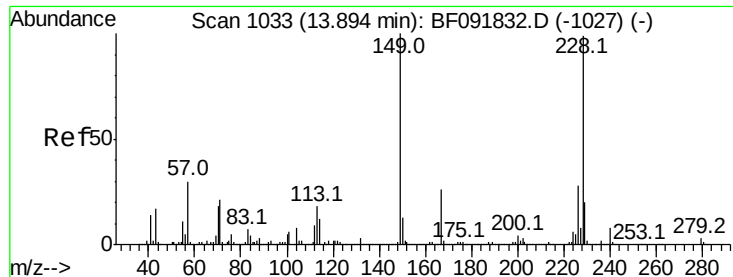
Delta R.T. -0.00 min

Lab File: BF092304.D

Acq: 17 Jan 2017 00:14

|           |     |       |        |
|-----------|-----|-------|--------|
| Tgt Ion:  | 244 | Resp: | 941753 |
| Ion Ratio |     | Lower | Upper  |
| 244       | 100 |       |        |
| 212       | 6.4 | 6.2   | 9.2    |
| 122       | 9.5 | 11.4  | 17.2   |





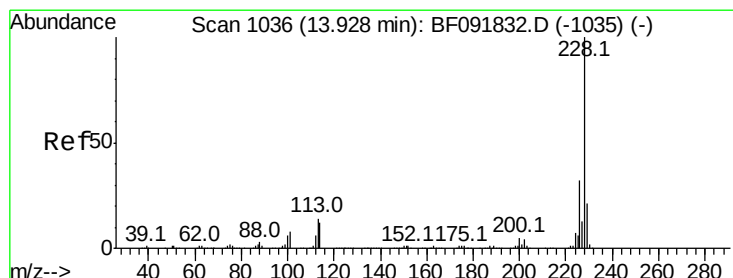
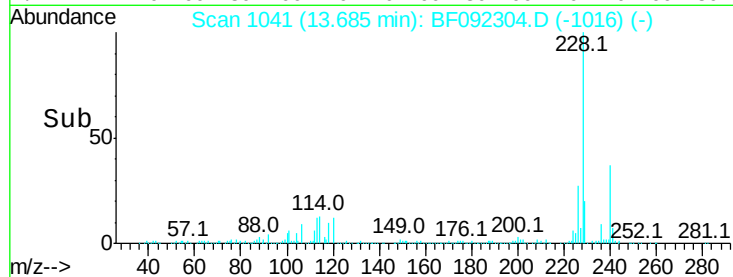
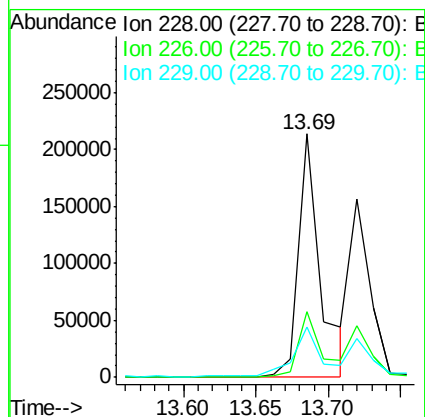
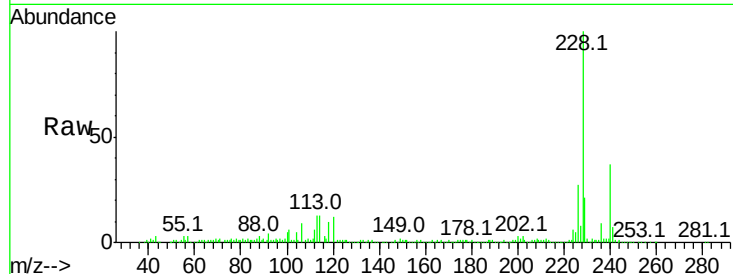
#80  
Benzo(a)anthracene  
Concen: 8.41 ng  
RT: 13.69 min Scan# 1041  
Delta R.T. -0.01 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.2  | 22.4  | 33.6  |
| 229     | 20.7  | 16.2  | 24.4  |

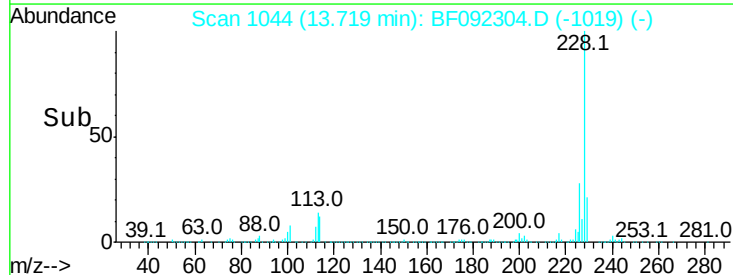
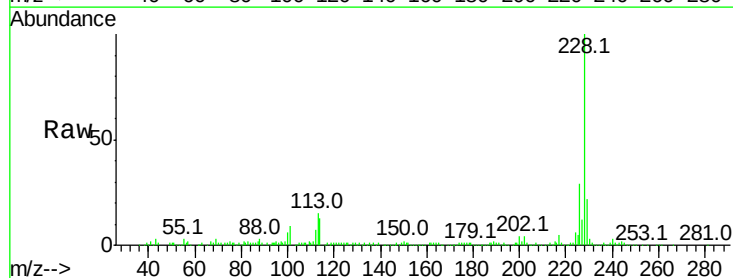
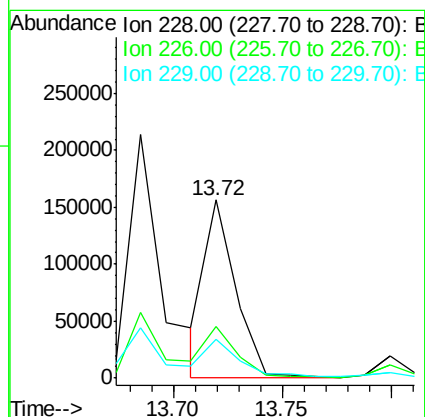
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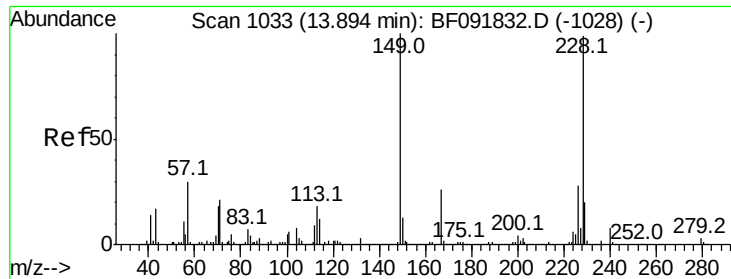
mohammad  
1/17/2017 4:58:03 PM



#82  
Chrysene  
Concen: 5.77 ng  
RT: 13.72 min Scan# 1044  
Delta R.T. -0.01 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.0  | 25.4  | 38.0  |
| 229     | 21.8  | 16.2  | 24.2  |





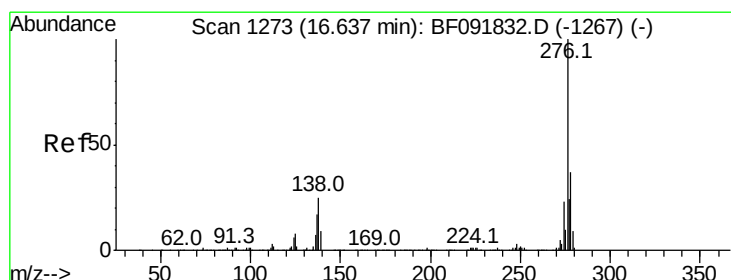
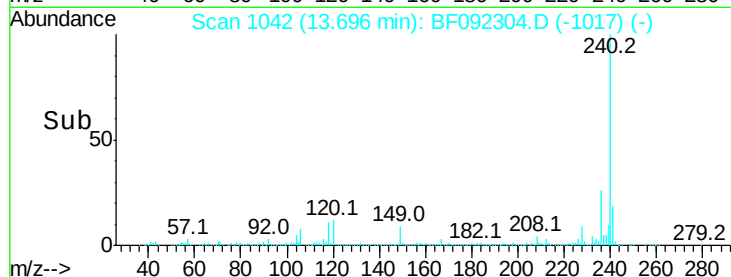
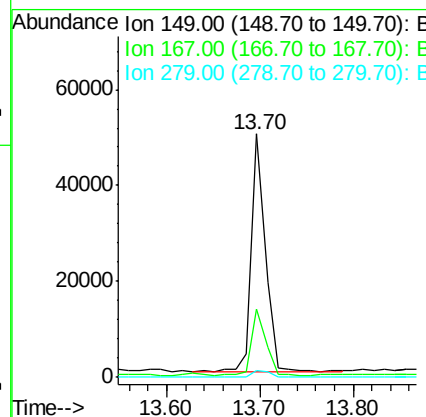
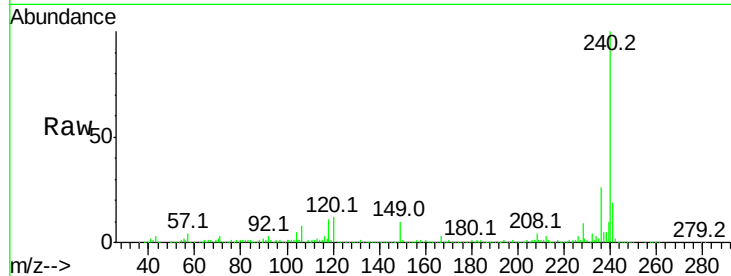
#83  
Bis(2-ethylhexyl)phthalate  
Concen: 2.79 ng  
RT: 13.70 min Scan# 1042  
Delta R.T. -0.01 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.1  | 20.2  | 30.4  |
| 279     | 2.6   | 1.8   | 2.8   |

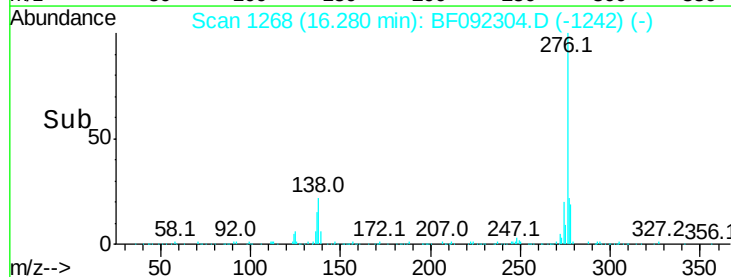
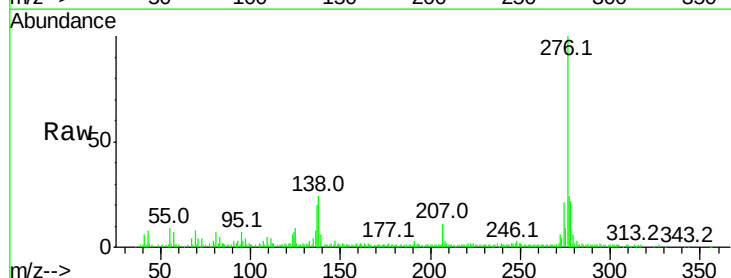
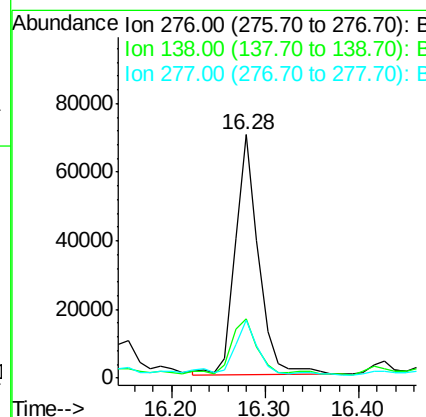
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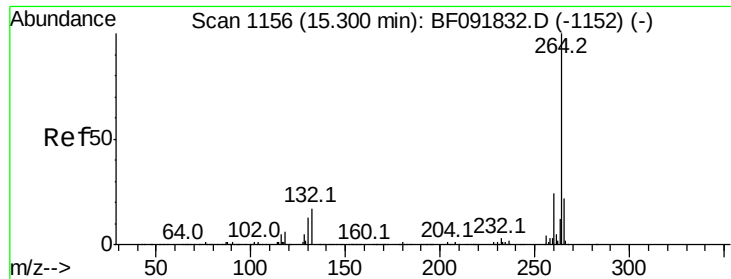
mohammad  
1/17/2017 4:58:03 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 5.28 ng  
RT: 16.28 min Scan# 1268  
Delta R.T. -0.00 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.4  | 21.8  | 32.6  |
| 277     | 25.7  | 20.2  | 30.4  |





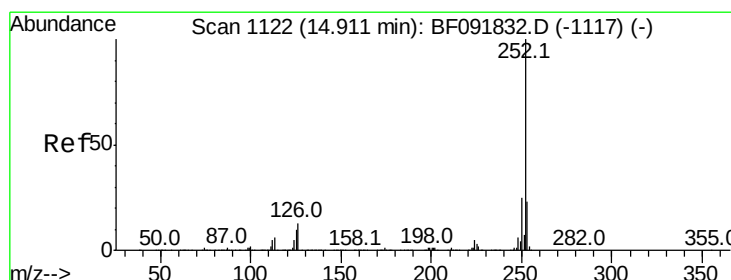
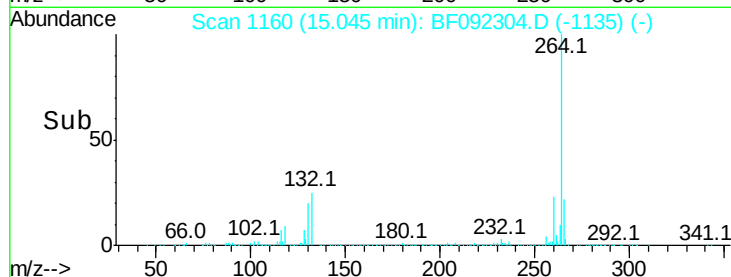
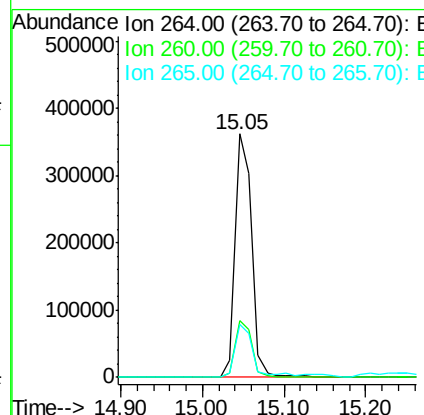
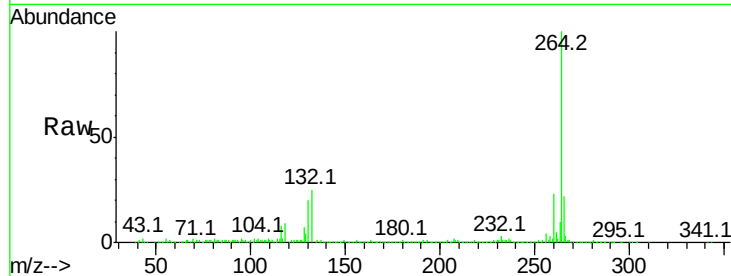
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.05 min Scan# 1160  
Delta R.T. -0.01 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.2  | 28.8  |
| 265     | 21.8  | 17.4  | 26.0  |

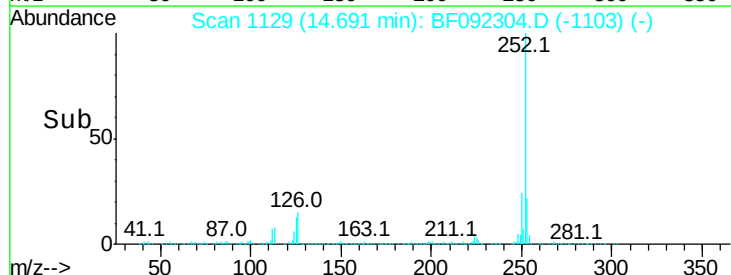
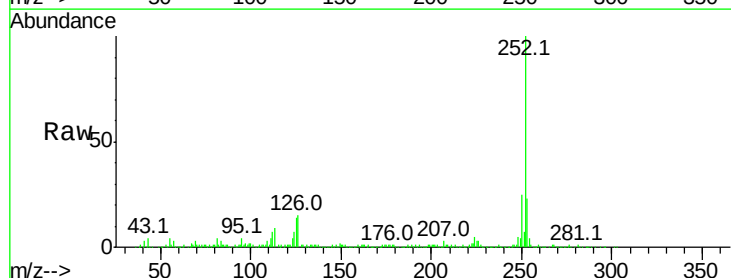
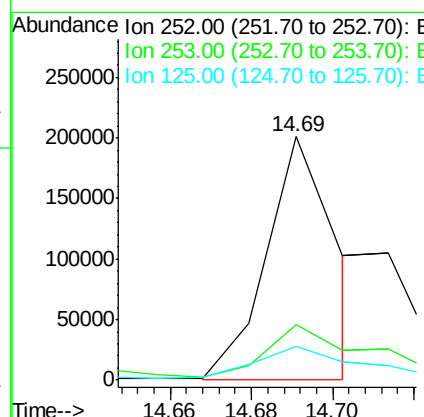
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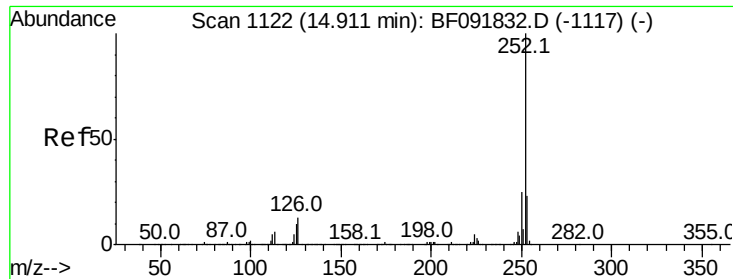
mohammad  
1/17/2017 4:58:03 PM



#87  
Benzo(b)fluoranthene  
Concen: 7.55 ng m  
RT: 14.69 min Scan# 1129  
Delta R.T. -0.00 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.2  | 27.4  |
| 125     | 14.1  | 9.8   | 14.6  |





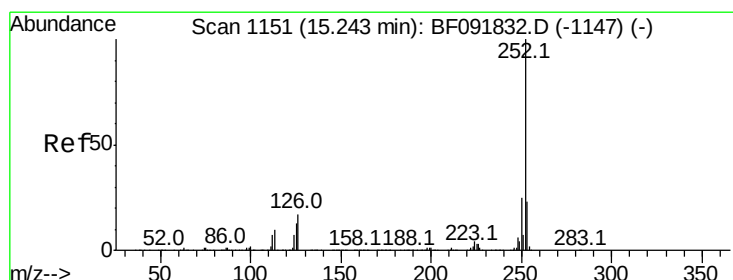
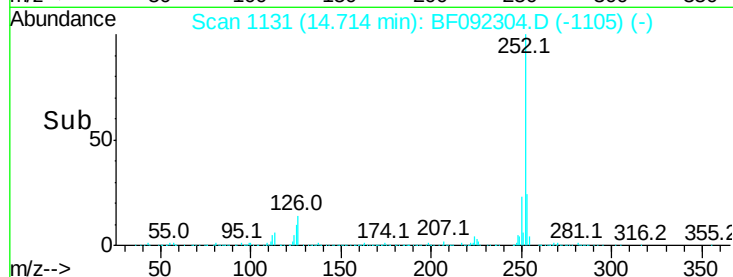
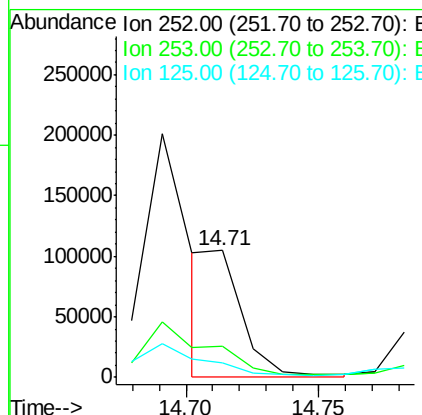
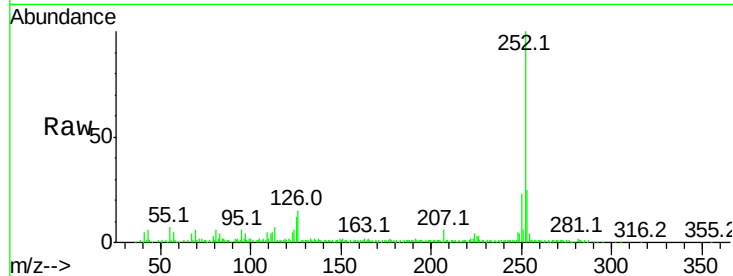
#88  
Benzo(k)fluoranthene  
Concen: 3.46 ng m  
RT: 14.71 min Scan# 1131  
Delta R.T. -0.00 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

Instrument :  
BNA\_F  
ClientSampled :  
TOD-BC-0.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.5  | 18.5  | 27.7  |
| 125     | 11.5  | 8.9   | 13.3  |

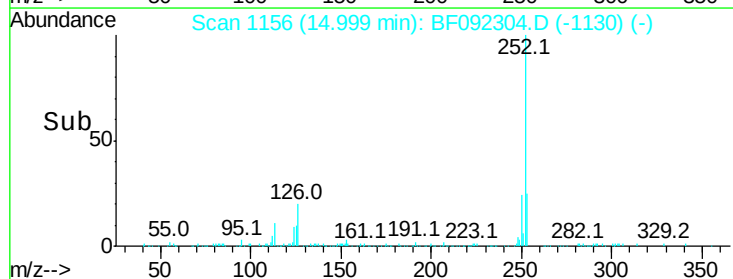
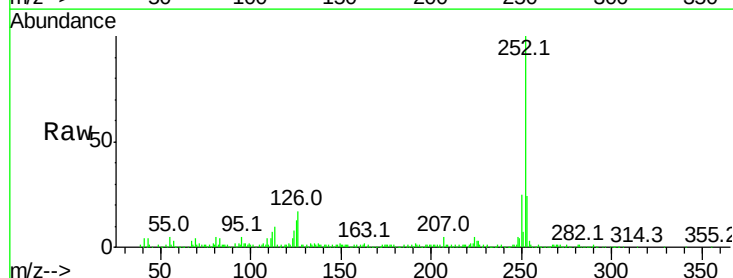
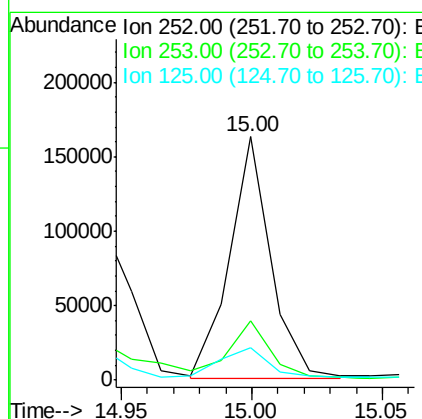
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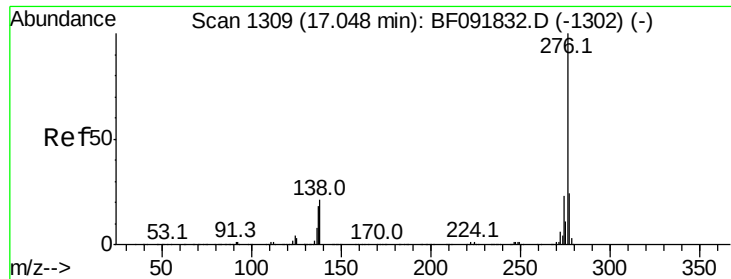
mohammad  
1/17/2017 4:58:03 PM



#89  
Benzo(a)pyrene  
Concen: 6.33 ng  
RT: 15.00 min Scan# 1156  
Delta R.T. -0.00 min  
Lab File: BF092304.D  
Acq: 17 Jan 2017 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 18.2  | 27.2  |
| 125     | 13.2  | 10.0  | 15.0  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 4.47 ng  
 RT: 16.65 min Scan# 1300  
 Delta R.T. -0.00 min  
 Lab File: BF092304.D  
 Acq: 17 Jan 2017 00:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TOD-BC-0.2

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 277     | 25.2  | 19.2       | 28.8  |
| 138     | 25.6  | 16.0       | 24.0  |

Manual Integrations  
 APPROVED

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