

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022317\  
 Data File : BF093126.D  
 Acq On : 24 Feb 2017 1:24  
 Operator : SJ/MA  
 Sample : I1954-14  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CLP-S-03(0-5)-D

Manual Integrations  
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Quant Time: Feb 24 03:04:45 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 17 17:31:55 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)       |
|-----------------------------|-------|------|----------|--------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.84  | 152  | 158040   | 20.00  | ng    | -0.01          |
| 21) Naphthalene-d8          | 8.13  | 136  | 598300   | 20.00  | ng    | -0.01          |
| 38) Acenaphthene-d10        | 9.88  | 164  | 244355   | 20.00  | ng    | -0.01          |
| 63) Phenanthrene-d10        | 11.36 | 188  | 358008   | 20.00  | ng    | -0.02          |
| 75) Chrysene-d12            | 14.00 | 240  | 312459   | 20.00  | ng    | -0.02          |
| 86) Perylene-d12            | 15.43 | 264  | 265144   | 20.00  | ng    | -0.02          |
| System Monitoring Compounds |       |      |          |        |       |                |
| 5) 2-Fluorophenol           | 5.44  | 112  | 1147101  | 124.53 | ng    | -0.01          |
| 7) Phenol-d6                | 6.49  | 99   | 1528886  | 128.99 | ng    | 0.00           |
| 23) Nitrobenzene-d5         | 7.41  | 82   | 862305   | 80.26  | ng    | -0.01          |
| 41) 2,4,6-Tribromophenol    | 10.67 | 330  | 202935   | 114.83 | ng    | -0.01          |
| 44) 2-Fluorobiphenyl        | 9.21  | 172  | 1238014  | 91.79  | ng    | -0.01          |
| 78) Terphenyl-d14           | 12.95 | 244  | 744673   | 56.00  | ng    | -0.02          |
| Target Compounds            |       |      |          |        |       |                |
| 10) Phenol                  | 6.50  | 94   | 57308    | 4.13   | ng    | Qvalue<br># 65 |
| 49) Dimethylphthalate       | 9.60  | 163  | 135539   | 8.24   | ng    | 99             |
| 70) Phenanthrene            | 11.39 | 178  | 180115   | 8.78   | ng    | 96             |
| 71) Anthracene              | 11.44 | 178  | 45353    | 2.20   | ng    | 94             |
| 74) Fluoranthene            | 12.57 | 202  | 264172   | 12.49  | ng    | 95             |
| 77) Pyrene                  | 12.80 | 202  | 249331   | 10.66  | ng    | 99             |
| 80) Benzo(a)anthracene      | 13.99 | 228  | 152815   | 8.00   | ng    | 99             |
| 82) Chrysene                | 14.02 | 228  | 106375   | 5.95   | ng    | 97             |
| 85) Indeno(1,2,3-cd)pyrene  | 16.82 | 276  | 47215    | 3.41   | ng    | 94             |
| 87) Benzo(b)fluoranthene    | 15.01 | 252  | 162515m  | 9.31   | ng    |                |
| 89) Benzo(a)pyrene          | 15.37 | 252  | 99552    | 6.59   | ng    | 96             |
| 91) Benzo(a,h,i)perylene    | 17.24 | 276  | 45531    | 3.69   | ng    | # 83           |

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

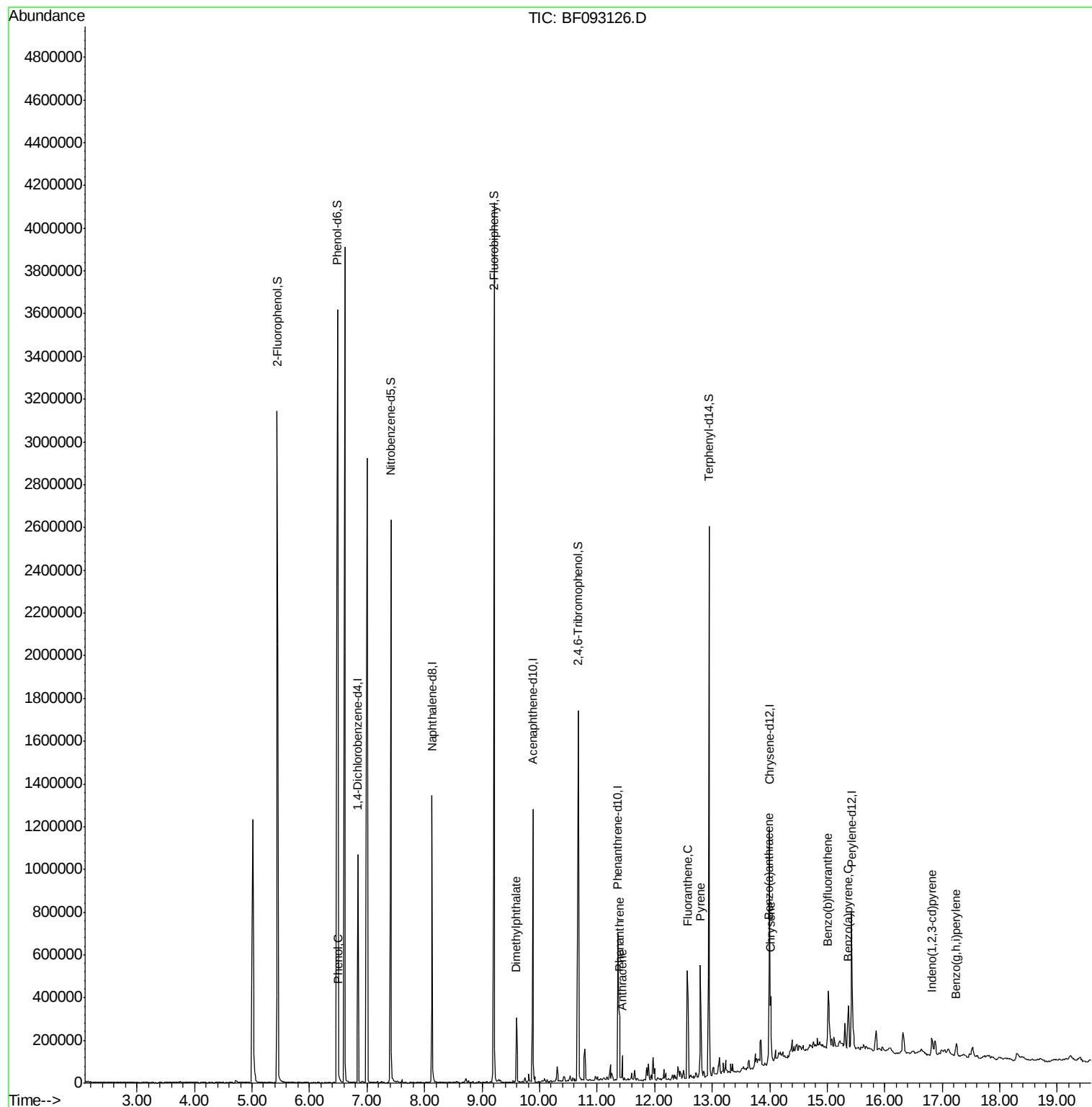
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022317\  
Data File : BF093126.D  
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Operator : SJ/MA  
Sample : I1954-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

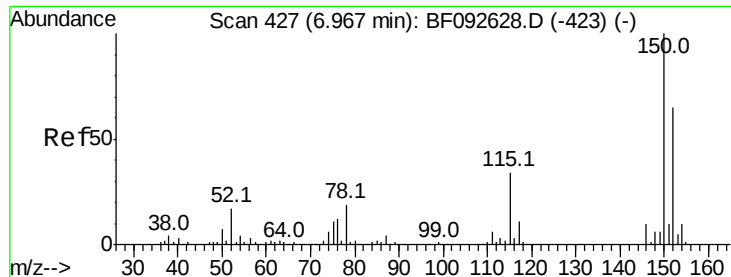
Instrument :  
BNA\_F  
ClientSampleId :  
CLP-S-03(0-5)-D

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Quant Time: Feb 24 03:04:45 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 17 17:31:55 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.84 min Scan# 416

Delta R.T. -0.01 min

Lab File: BF093126.D

Acq: 24 Feb 2017 1:24

Instrument :

BNA\_F

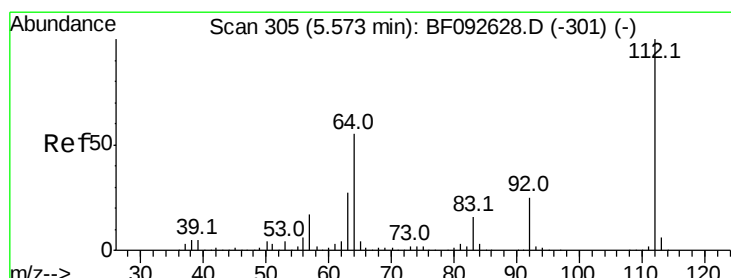
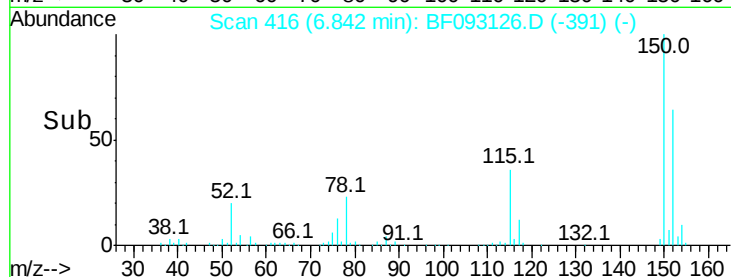
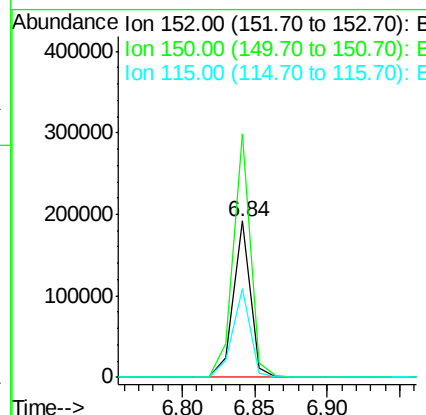
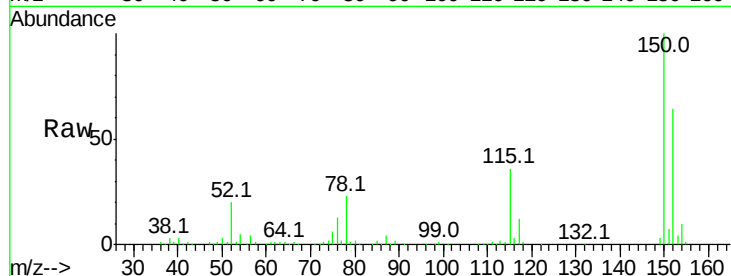
ClientSampleId :

CLP-S-03(0-5)-D

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 158040 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 155.7 | 124.9 | 187.3  |
| 115       | 56.6  | 46.0  | 69.0   |

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#5

2-Fluorophenol

Concen: 124.53 ng

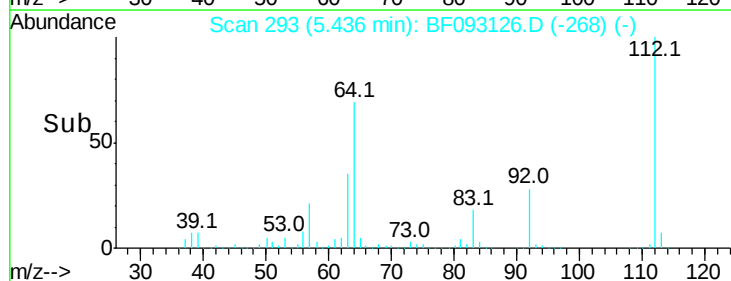
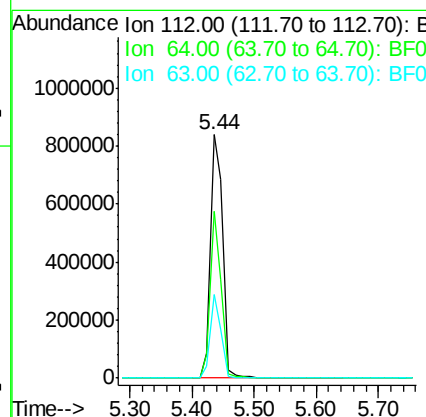
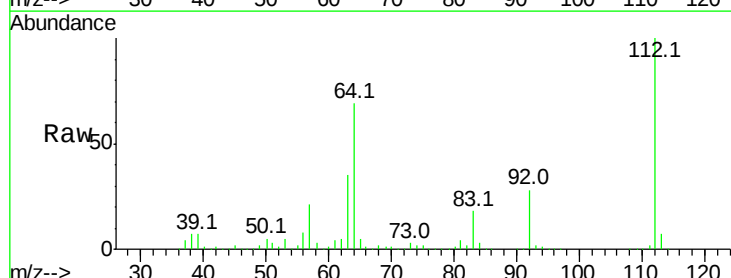
RT: 5.44 min Scan# 293

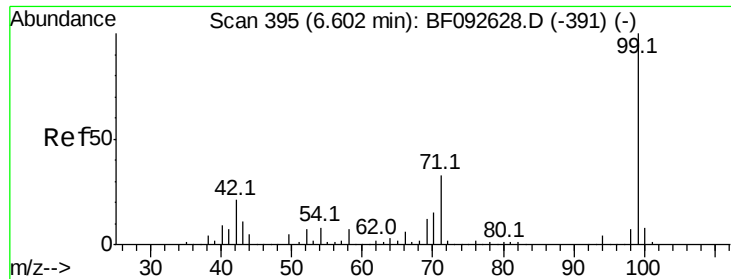
Delta R.T. -0.01 min

Lab File: BF093126.D

Acq: 24 Feb 2017 1:24

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 112   | Resp: | 1147101 |
| Ion Ratio | Lower | Upper |         |
| 112       | 100   |       |         |
| 64        | 68.7  | 46.1  | 69.1    |
| 63        | 34.6  | 23.8  | 35.6    |





#7

Phenol-d6

Concen: 128.99 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.00 min

Lab File: BF093126.D

Acq: 24 Feb 2017 1:24

Instrument :

BNA\_F

ClientSampleId :

CLP-S-03(0-5)-D

Tot Ion: 99 Resp: 1528886

Ion Ratio Lower Upper

99 100

42 17.9 15.6 23.4

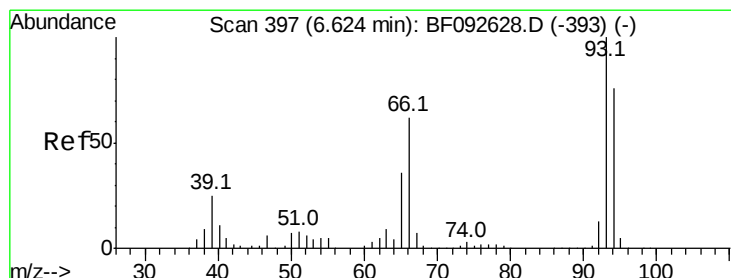
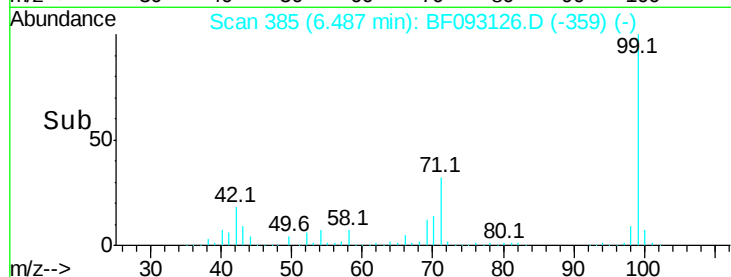
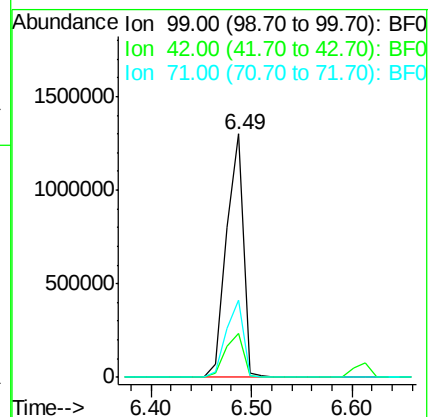
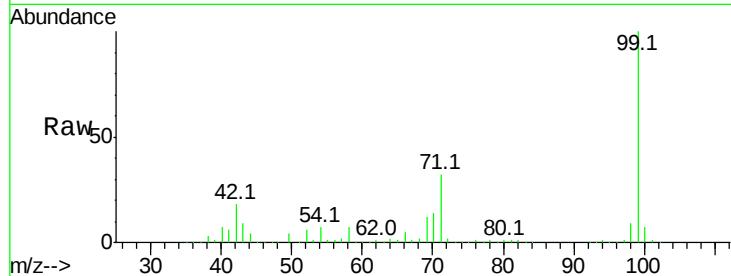
71 31.5 27.5 41.3

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#10

Phenol

Concen: 4.13 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.01 min

Lab File: BF093126.D

Acq: 24 Feb 2017 1:24

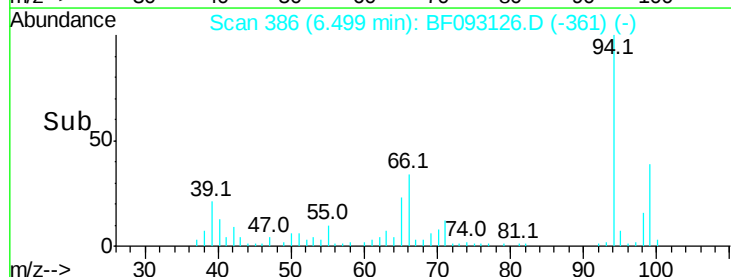
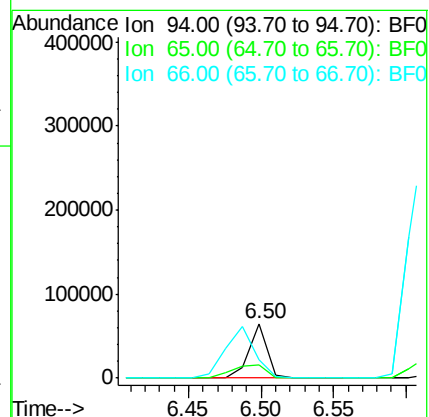
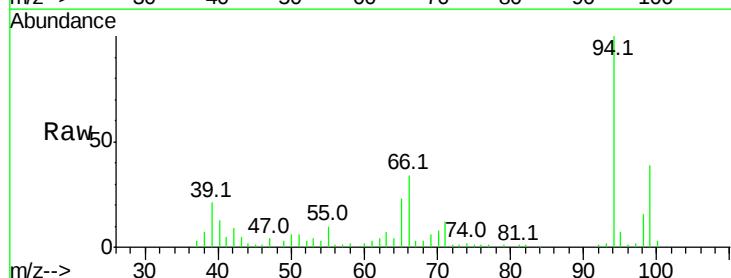
Tgt Ion: 94 Resp: 57308

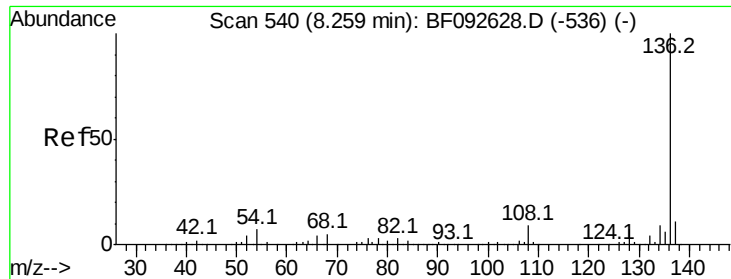
Ion Ratio Lower Upper

94 100

65 23.2 21.4 61.4

66 33.6 44.0 84.0#





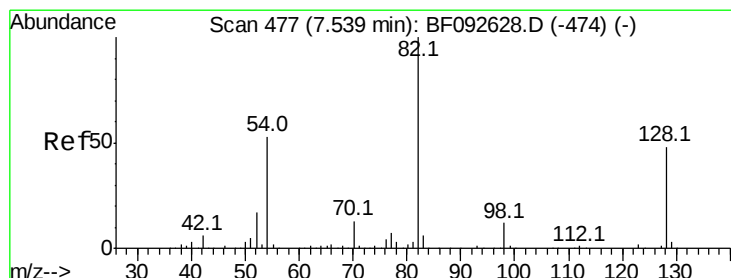
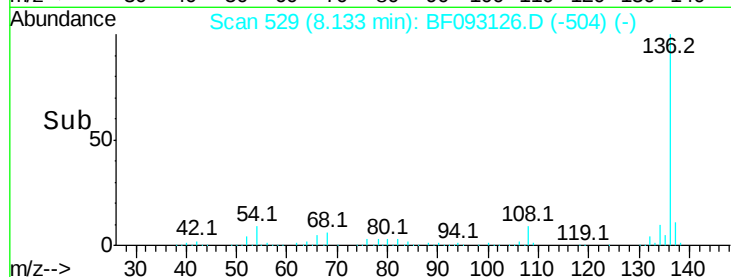
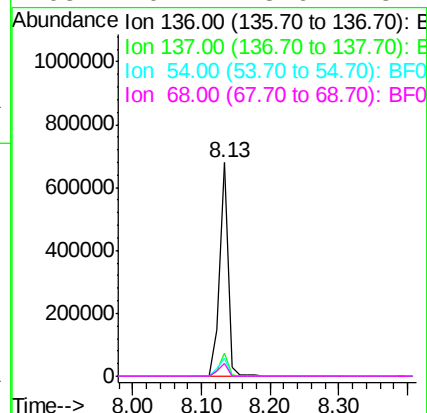
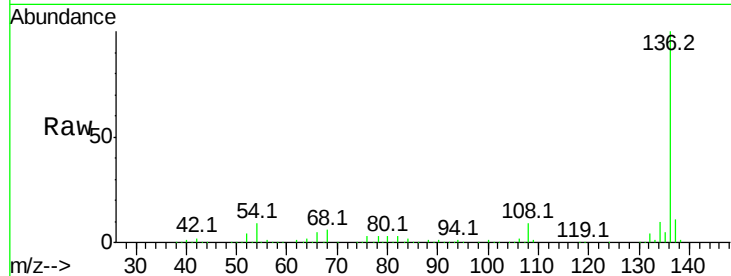
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.13 min Scan# 529  
Delta R.T. -0.01 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

Instrument :  
BNA\_F  
ClientSampleId :  
CLP-S-03(0-5)-D

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.1  | 8.4  | 12.6  |       |
| 54      | 8.6   | 4.5  | 6.7#  |       |
| 68      | 6.1   | 3.6  | 5.4#  |       |

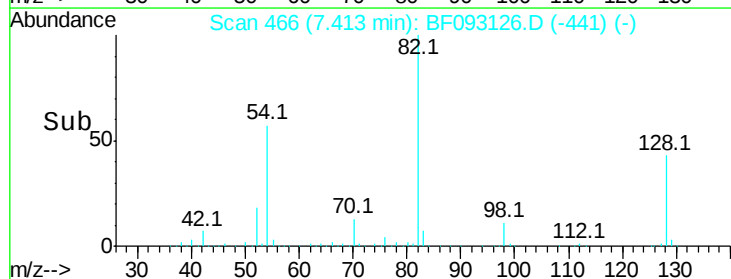
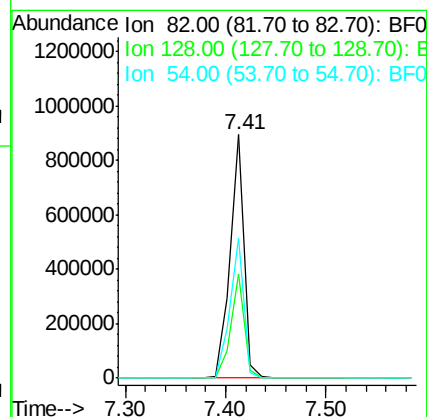
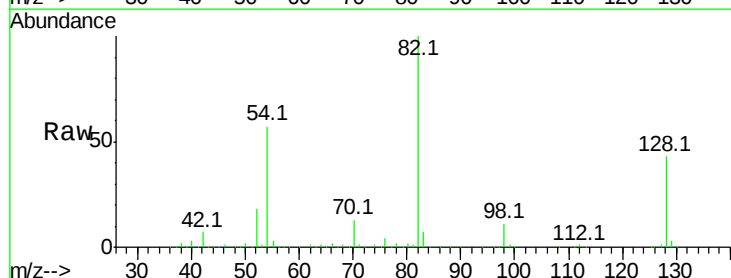
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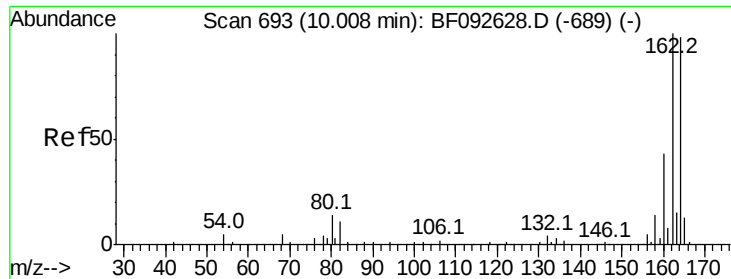
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#23  
Nitrobenzene-d5  
Concen: 80.26 ng  
RT: 7.41 min Scan# 466  
Delta R.T. -0.01 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 42.9  | 34.6 | 52.0  |       |
| 54      | 57.5  | 39.5 | 59.3  |       |





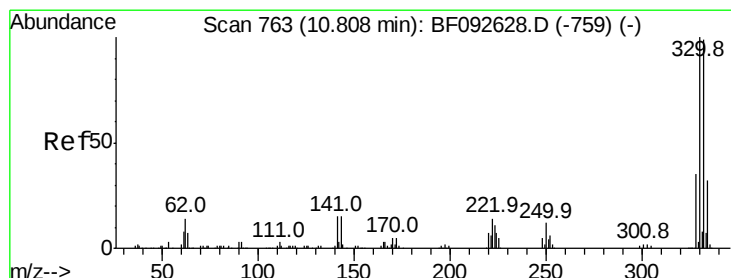
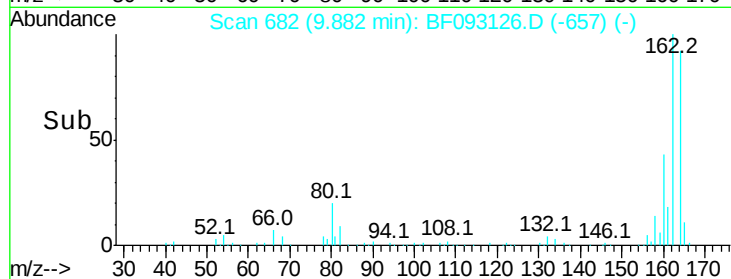
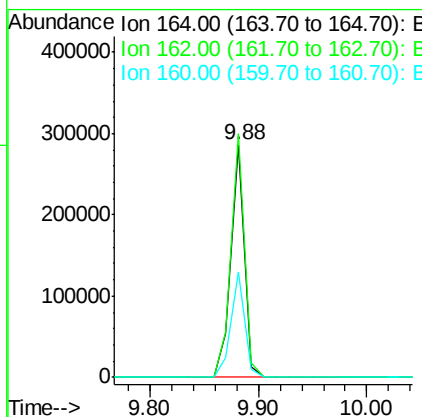
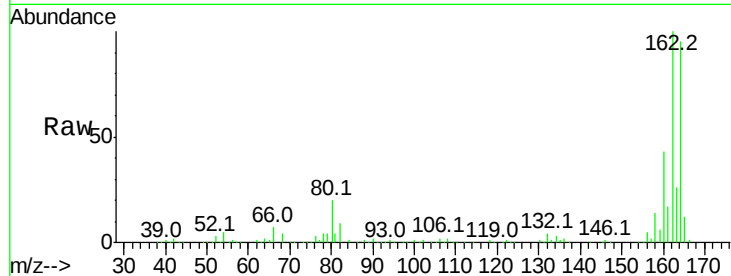
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.88 min Scan# 682  
Delta R.T. -0.01 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

Instrument :  
BNA\_F  
ClientSampleId :  
CLP-S-03(0-5)-D

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 244355 |       |       |
| 162     | 104.8 | 80.2   | 120.2 |       |
| 160     | 45.2  | 36.9   | 55.3  |       |

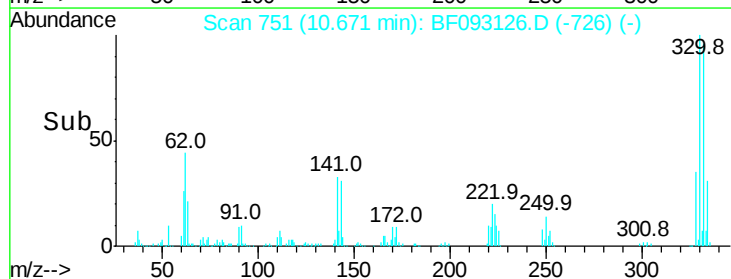
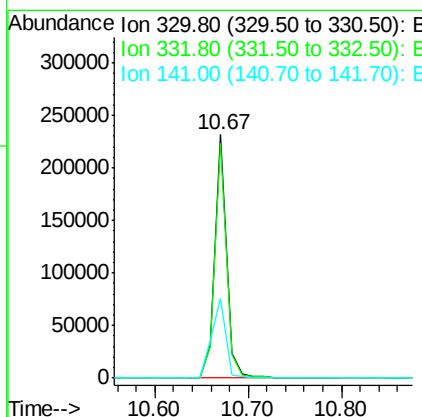
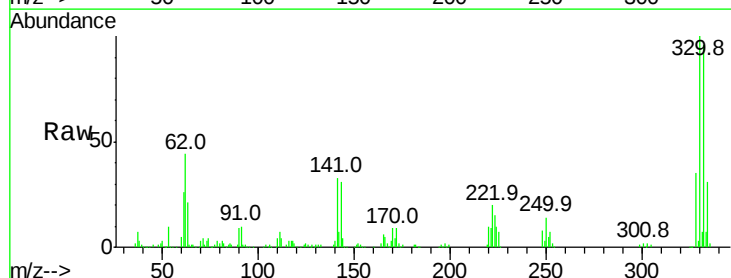
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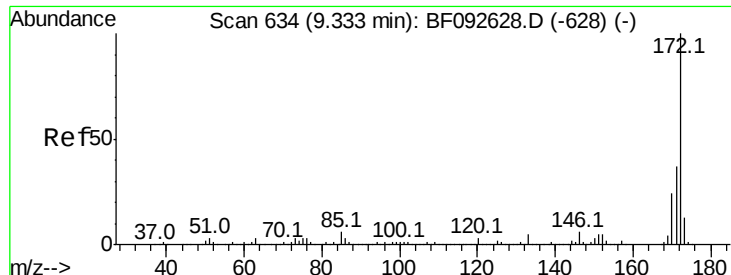
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#41  
2,4,6-Tribromophenol  
Concen: 114.83 ng  
RT: 10.67 min Scan# 751  
Delta R.T. -0.01 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 202935 |       |       |
| 332     | 96.2  | 77.4   | 116.2 |       |
| 141     | 40.1  | 34.1   | 51.1  |       |





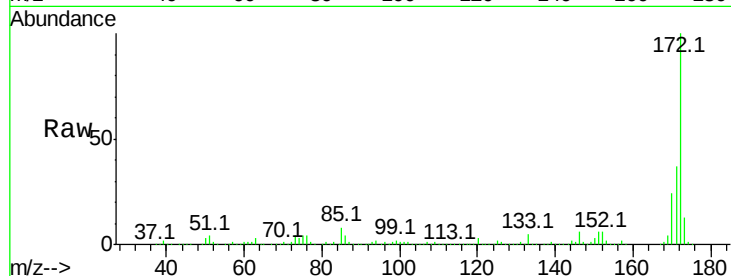
#44  
2-Fluorobiphenyl  
Concen: 91.79 ng  
RT: 9.21 min Scan# 623  
Delta R.T. -0.01 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

Instrument :  
BNA\_F  
ClientSampleId :  
CLP-S-03(0-5)-D

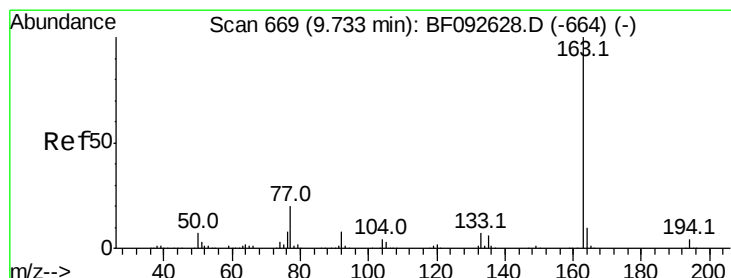
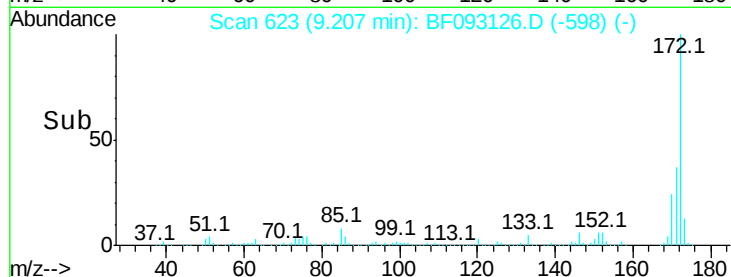
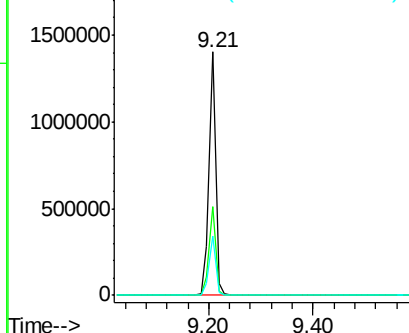
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.4  | 44.0  |
| 170     | 24.5  | 20.2  | 30.4  |

Manual Integrations  
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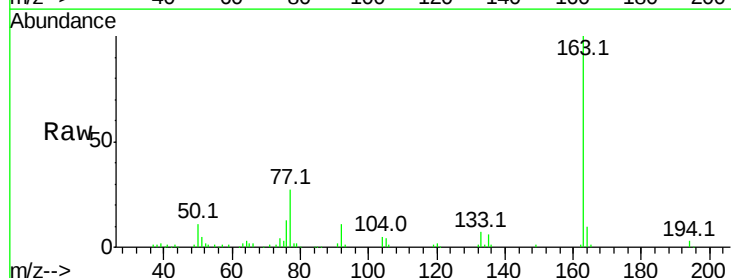


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

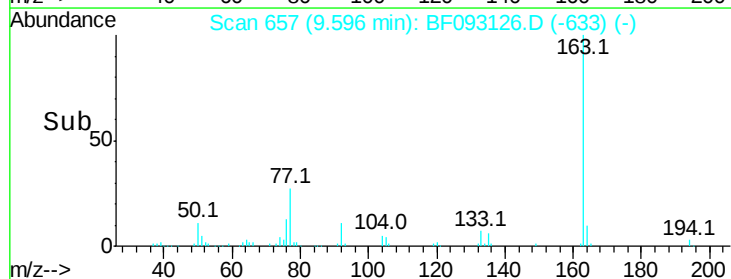
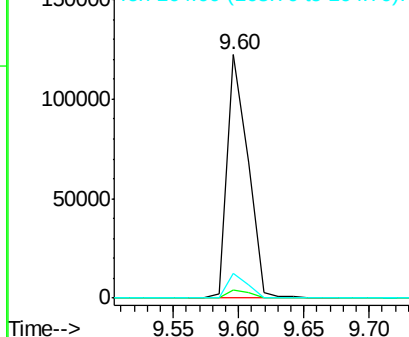


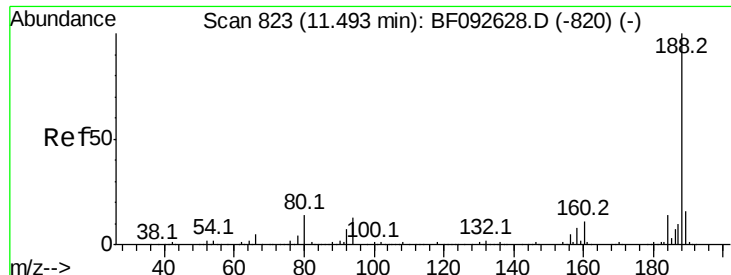
#49  
Dimethylphthalate  
Concen: 8.24 ng  
RT: 9.60 min Scan# 657  
Delta R.T. -0.02 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.1   | 3.0   | 4.4   |
| 164     | 9.9   | 8.0   | 12.0  |



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E





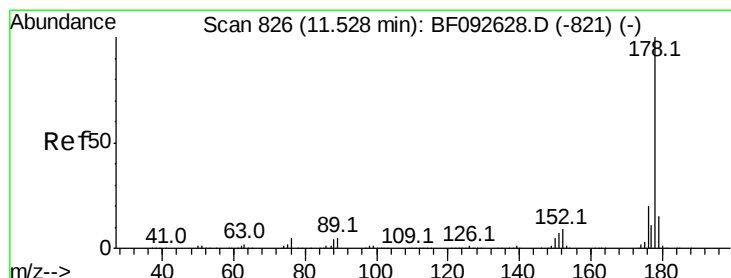
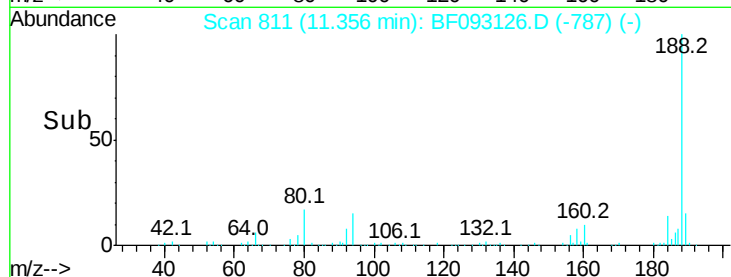
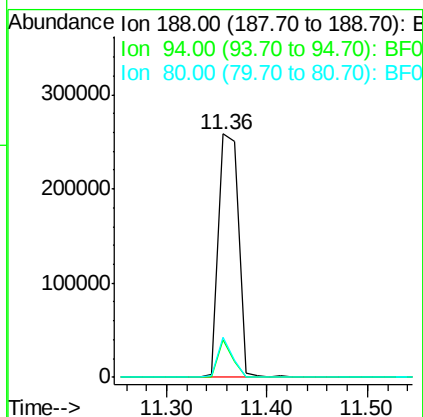
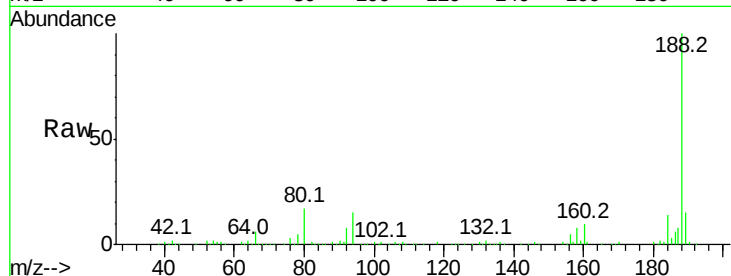
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.36 min Scan# 811  
Delta R.T. -0.02 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

Instrument :  
BNA\_F  
ClientSampleId :  
CLP-S-03(0-5)-D

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 15.5  | 10.0 | 15.0# |       |
| 80      | 16.5  | 11.2 | 16.8  |       |

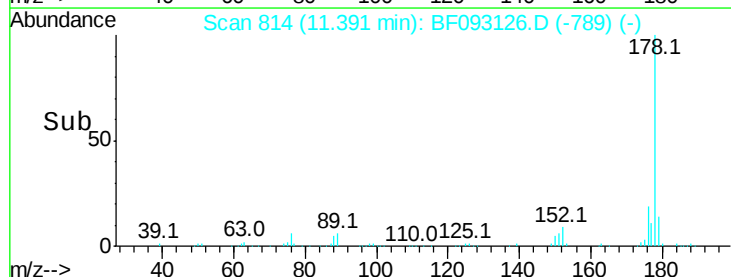
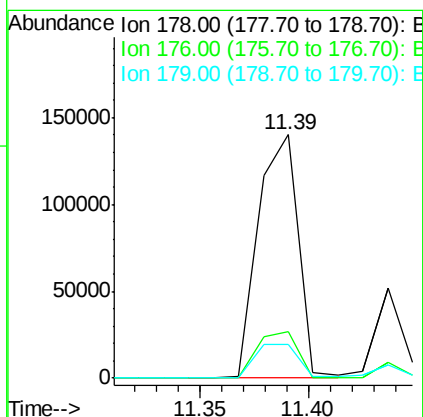
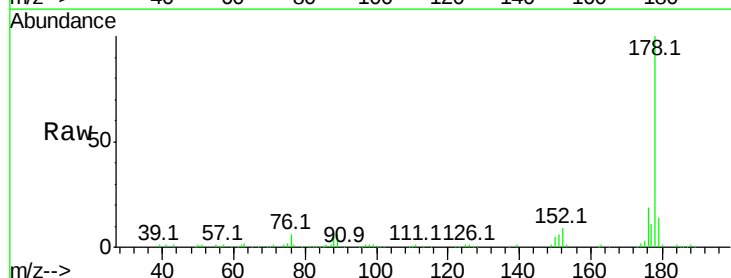
Manual Integrations  
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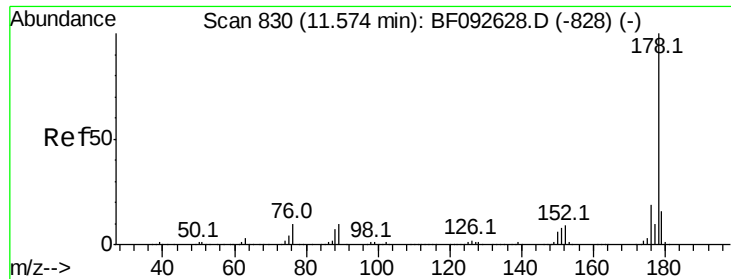
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#70  
Phenanthrene  
Concen: 8.78 ng  
RT: 11.39 min Scan# 814  
Delta R.T. -0.01 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 178     | 100   |      |       |       |
| 176     | 19.3  | 16.6 | 25.0  |       |
| 179     | 13.9  | 12.8 | 19.2  |       |





#71

Anthracene

Concen: 2.20 ng

RT: 11.44 min Scan# 818

Delta R.T. -0.02 min

Lab File: BF093126.D

Acq: 24 Feb 2017 1:24

Instrument :

BNA\_F

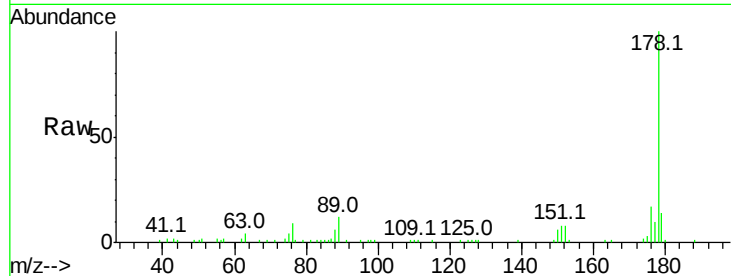
ClientSampleId :

CLP-S-03(0-5)-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.3  | 15.9  | 23.9  |
| 179     | 14.2  | 13.2  | 19.8  |

Manual Integrations  
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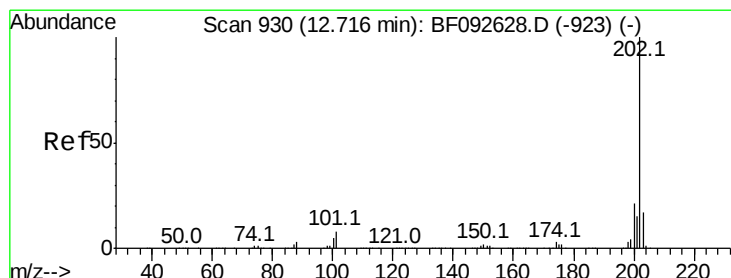
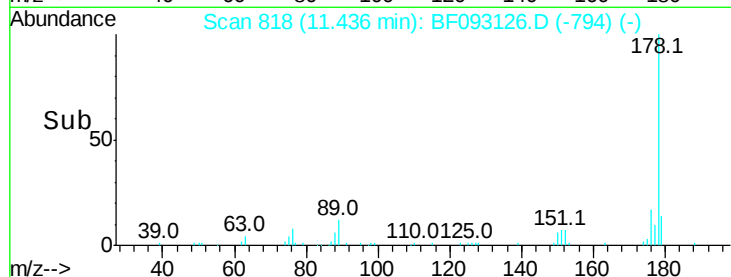
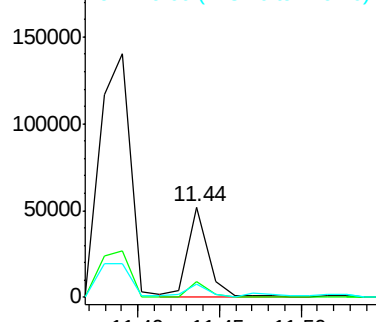
mohammad  
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 12.49 ng

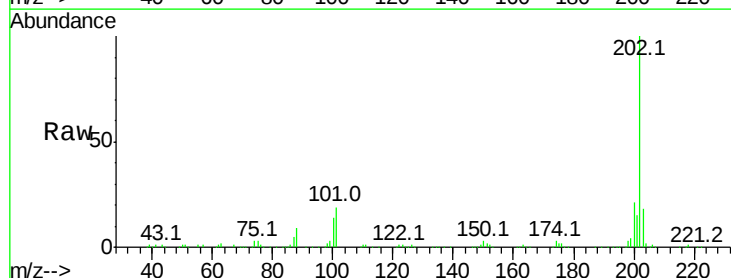
RT: 12.57 min Scan# 917

Delta R.T. -0.02 min

Lab File: BF093126.D

Acq: 24 Feb 2017 1:24

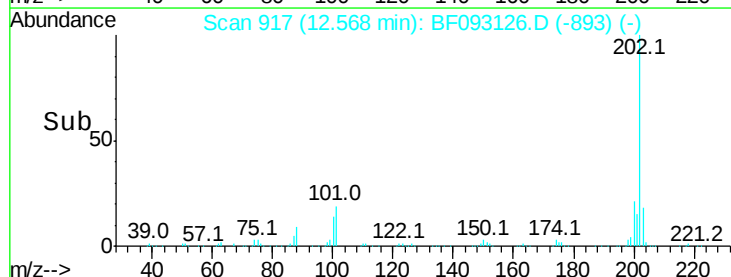
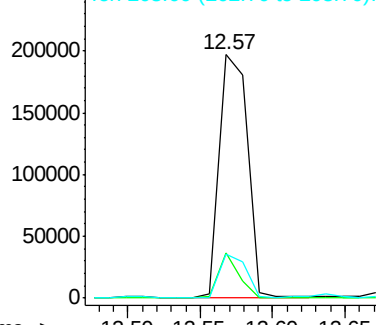
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 18.8  | 0.0   | 34.6  |
| 203     | 17.9  | 0.0   | 38.7  |

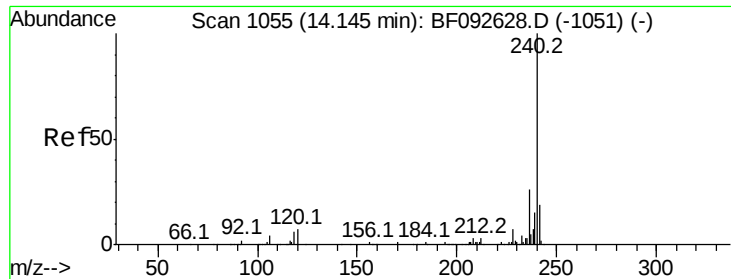


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





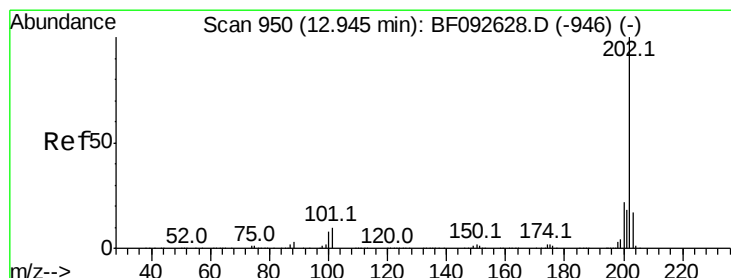
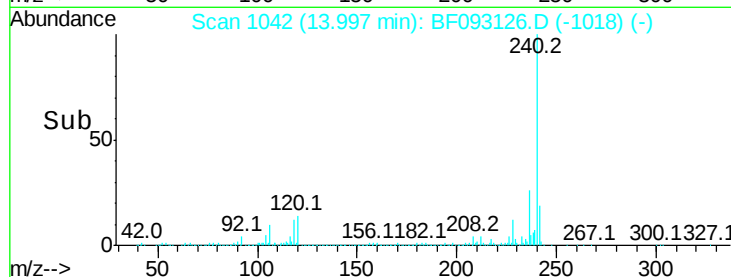
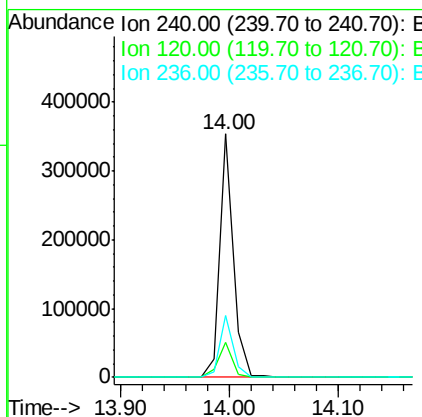
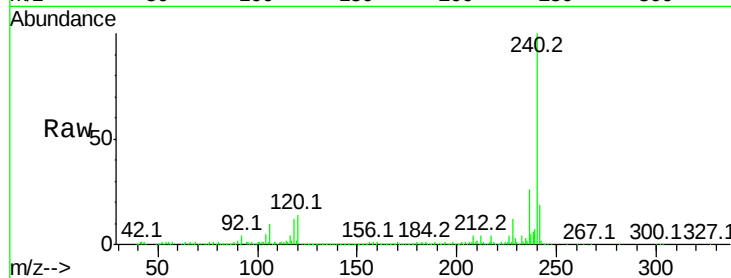
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.00 min Scan# 1042  
Delta R.T. -0.02 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

Instrument :  
BNA\_F  
ClientSampleId :  
CLP-S-03(0-5)-D

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 240     | 100   |      |       |       |
| 120     | 14.5  | 12.9 | 19.3  |       |
| 236     | 25.5  | 20.9 | 31.3  |       |

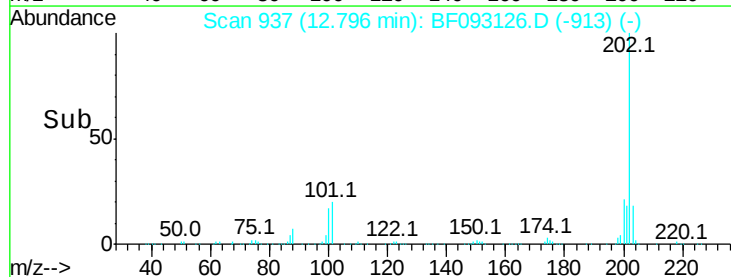
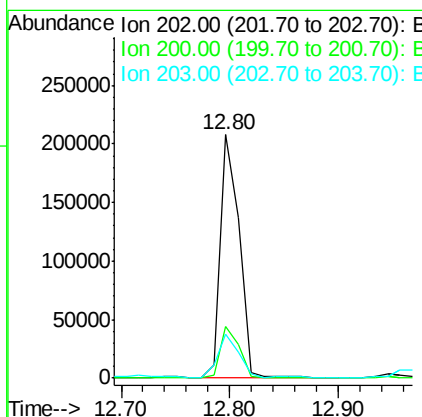
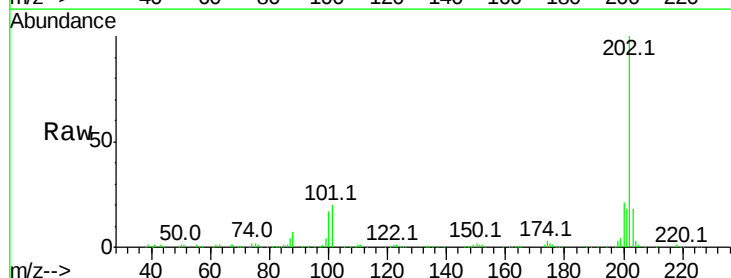
Manual Integrations  
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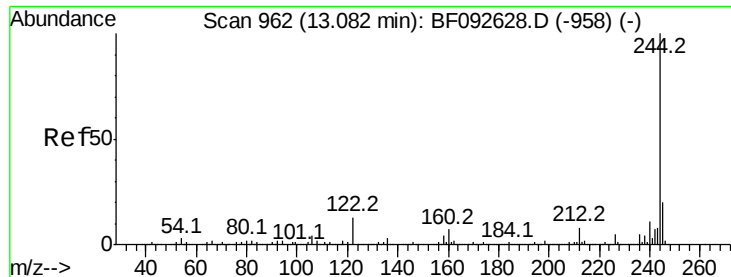
mohammad  
2/24/2017 2:11:24 PM



#77  
Pyrene  
Concen: 10.66 ng  
RT: 12.80 min Scan# 937  
Delta R.T. -0.02 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 200     | 21.2  | 17.7 | 26.5  |       |
| 203     | 18.2  | 14.7 | 22.1  |       |





#78

Terphenyl-d14

Concen: 56.00 ng

RT: 12.95 min Scan# 950

Delta R.T. -0.02 min

Lab File: BF093126.D

Acq: 24 Feb 2017 1:24

Instrument :

BNA\_F

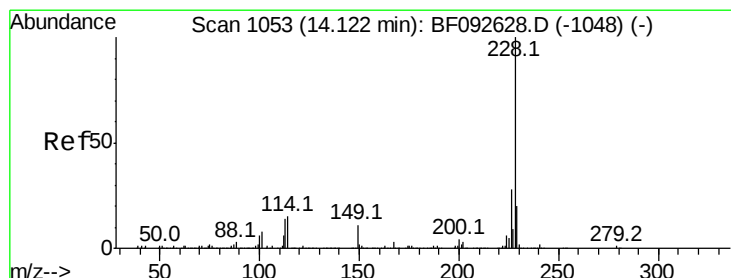
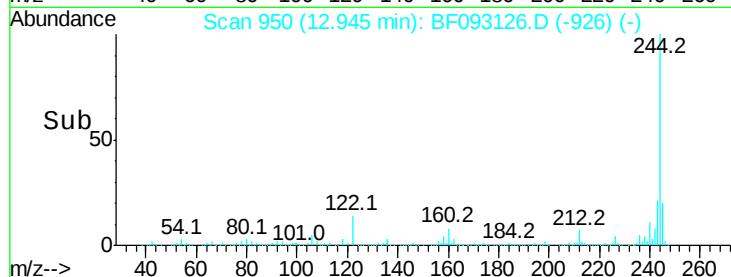
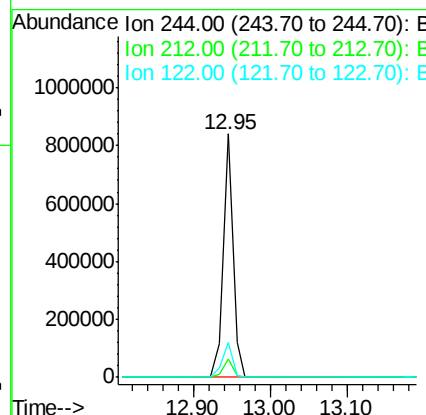
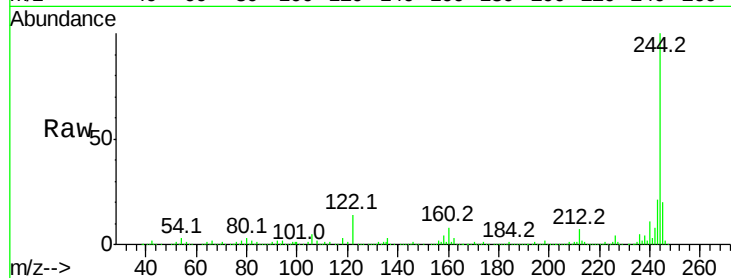
ClientSampleId :

CLP-S-03(0-5)-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.5   | 6.2   | 9.2   |
| 122     | 14.2  | 11.4  | 17.2  |

Manual Integrations  
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#80

Benzo(a)anthracene

Concen: 8.00 ng

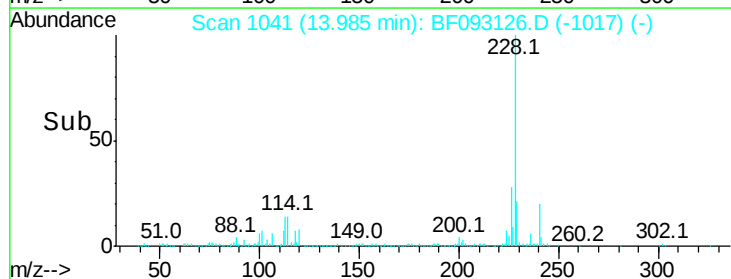
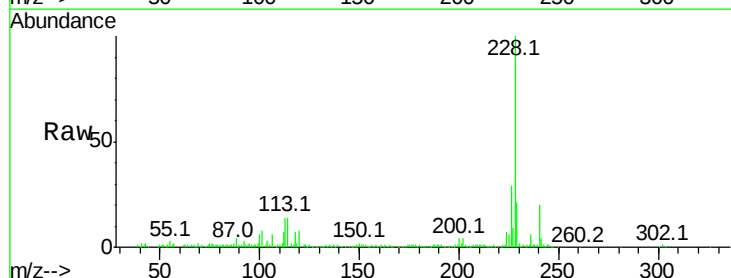
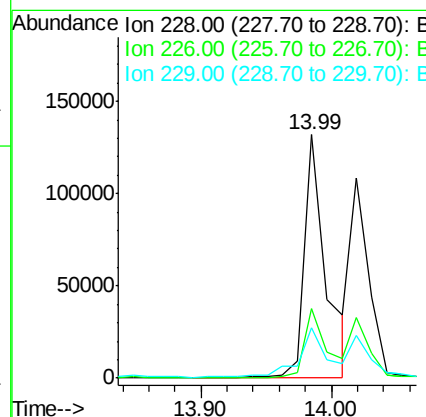
RT: 13.99 min Scan# 1041

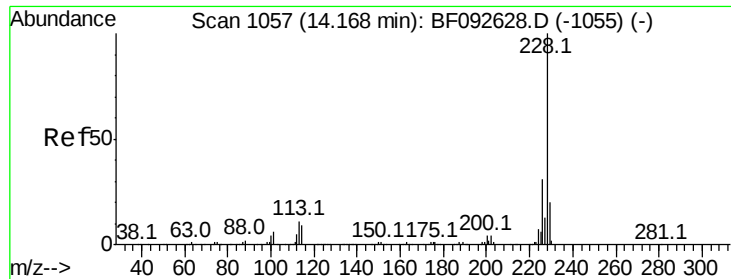
Delta R.T. -0.02 min

Lab File: BF093126.D

Acq: 24 Feb 2017 1:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.7  | 22.4  | 33.6  |
| 229     | 20.9  | 16.2  | 24.4  |





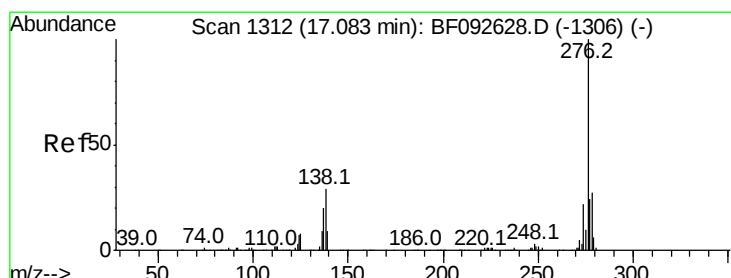
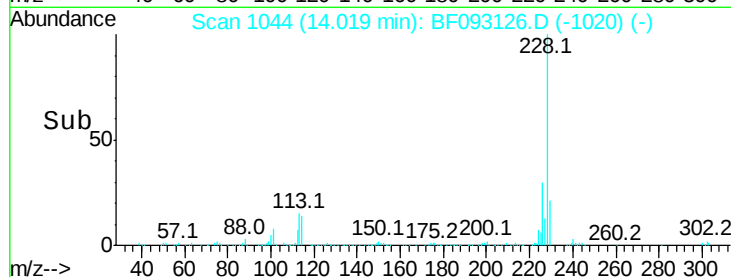
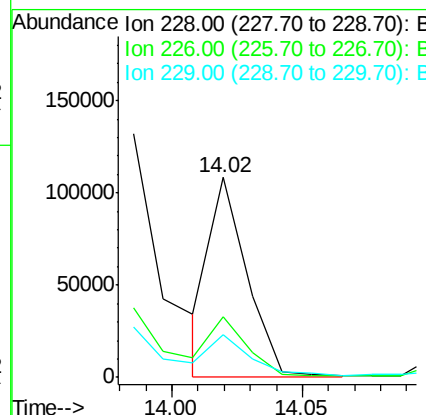
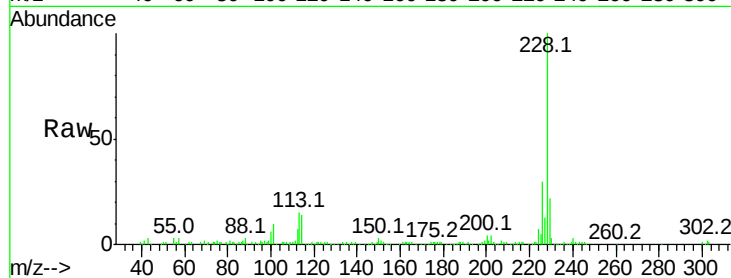
#82  
Chrysene  
Concen: 5.95 ng  
RT: 14.02 min Scan# 1044  
Delta R.T. -0.02 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

Instrument :  
BNA\_F  
ClientSampleId :  
CLP-S-03(0-5)-D

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 106375 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.4  | 25.4  | 38.0   |
| 229       | 21.5  | 16.2  | 24.2   |

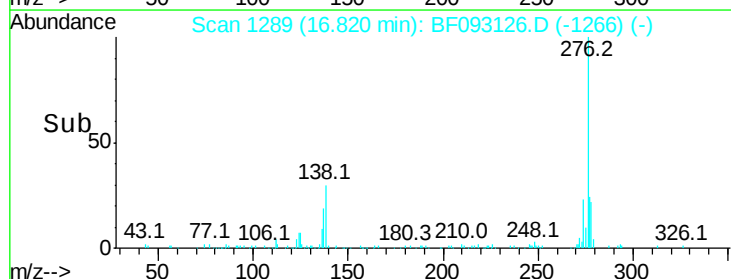
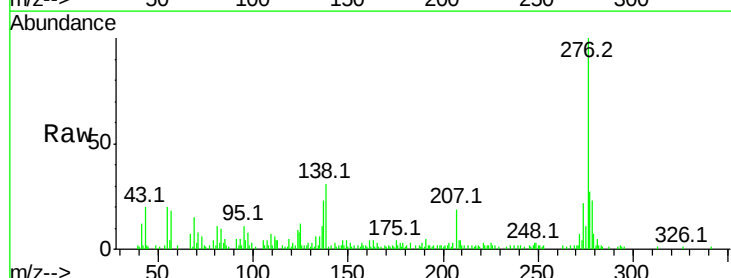
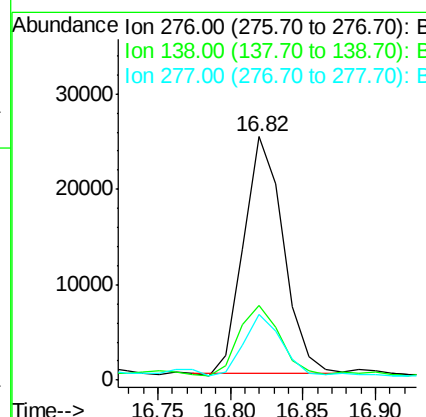
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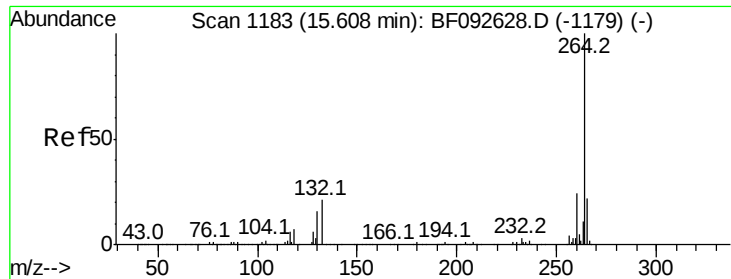
mohammad  
2/24/2017 2:11:24 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.41 ng  
RT: 16.82 min Scan# 1289  
Delta R.T. -0.03 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 47215 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 32.5  | 21.8  | 32.6  |
| 277       | 24.3  | 20.2  | 30.4  |





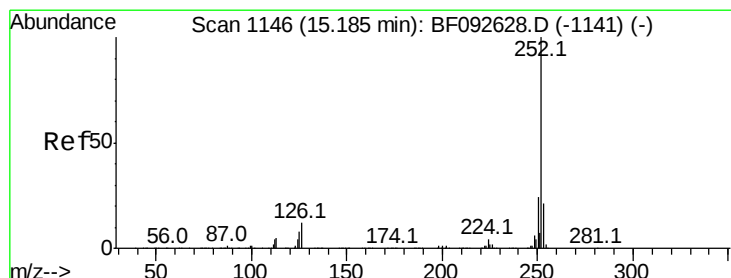
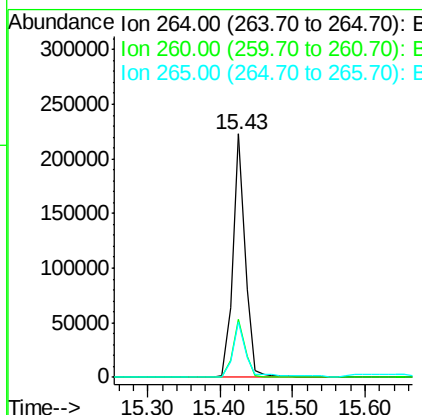
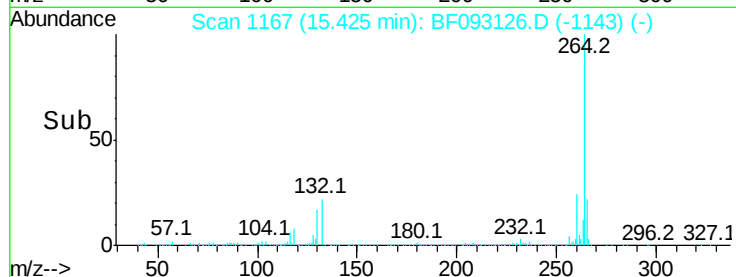
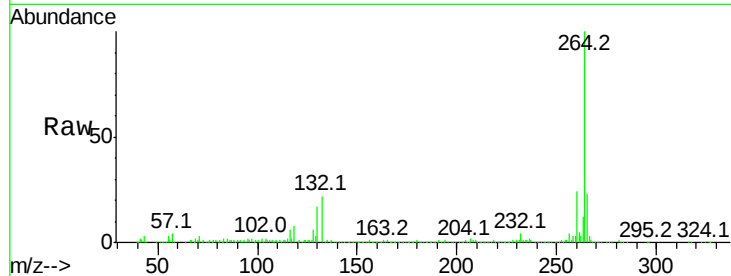
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.43 min Scan# 1167  
Delta R.T. -0.02 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

Instrument :  
BNA\_F  
ClientSampleId :  
CLP-S-03(0-5)-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 19.2  | 28.8  |
| 265     | 22.6  | 17.4  | 26.0  |

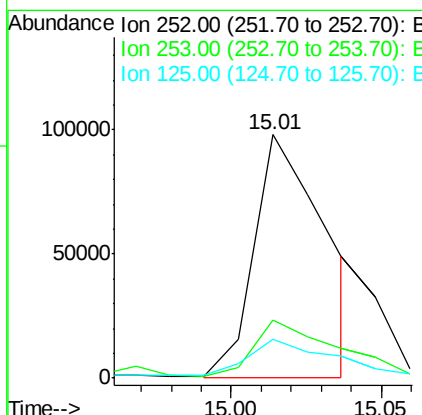
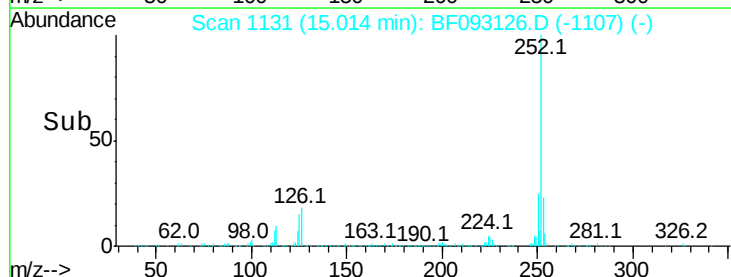
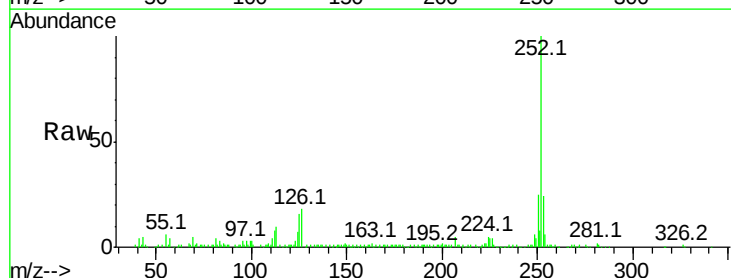
Manual Integrations  
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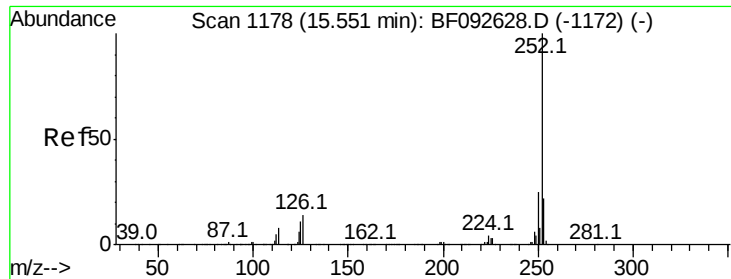
mohammad  
2/24/2017 2:11:24 PM



#87  
Benzo(b)fluoranthene  
Concen: 9.31 ng m  
RT: 15.01 min Scan# 1131  
Delta R.T. -0.02 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 18.2  | 27.4  |
| 125     | 15.8  | 9.8   | 14.6  |





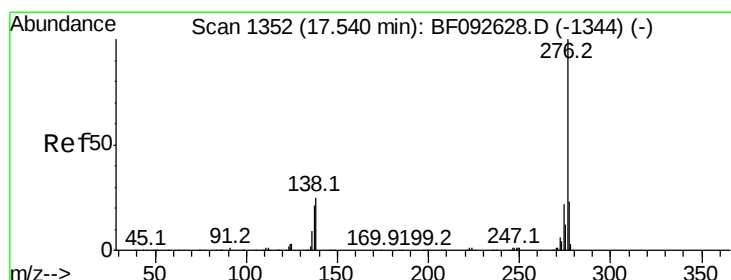
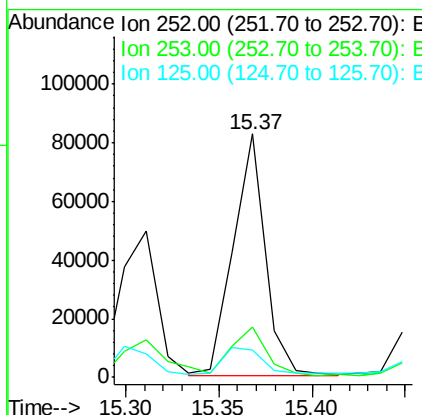
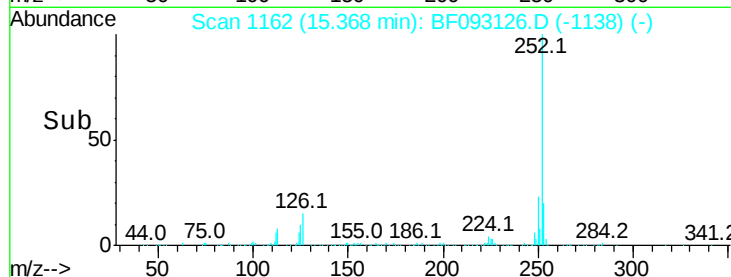
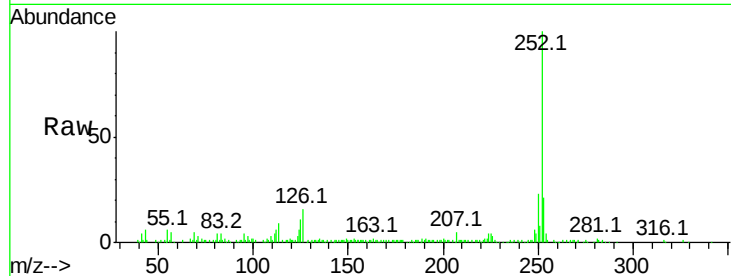
#89  
Benzo(a)pyrene  
Concen: 6.59 ng  
RT: 15.37 min Scan# 1162  
Delta R.T. -0.02 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

Instrument :  
BNA\_F  
ClientSampleId :  
CLP-S-03(0-5)-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 20.9  | 18.2  | 27.2  |
| 125     | 11.3  | 10.0  | 15.0  |

Manual Integrations  
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#91  
Benzo(g,h,i)perylene  
Concen: 3.69 ng  
RT: 17.24 min Scan# 1326  
Delta R.T. -0.05 min  
Lab File: BF093126.D  
Acq: 24 Feb 2017 1:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.1  | 19.2  | 28.8  |
| 138     | 34.8  | 16.0  | 24.0  |

