

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021317\  
 Data File : BF092925.D  
 Acq On : 13 Feb 2017 18:29  
 Operator : SJ/MA  
 Sample : PB96899BL  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB96899BL

Manual Integrations  
 APPROVED

mohammad  
 2/14/2017 11:30:21 AM

Quant Time: Feb 14 10:08:57 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 13 18:04:38 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.88  | 152  | 129843m  | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.17  | 136  | 559273   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.92  | 164  | 310747   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.40 | 188  | 527897   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.04 | 240  | 435870   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.48 | 264  | 372539   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.49  | 112  | 1018296  | 134.55 | ng    | 0.01     |
| 7) Phenol-d6                | 6.52  | 99   | 1298720  | 133.37 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 770823   | 76.75  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330  | 244114   | 108.62 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.24  | 172  | 1366570  | 79.67  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.99 | 244  | 1320532  | 71.19  | ng    | 0.00     |

Target Compounds Qvalue

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

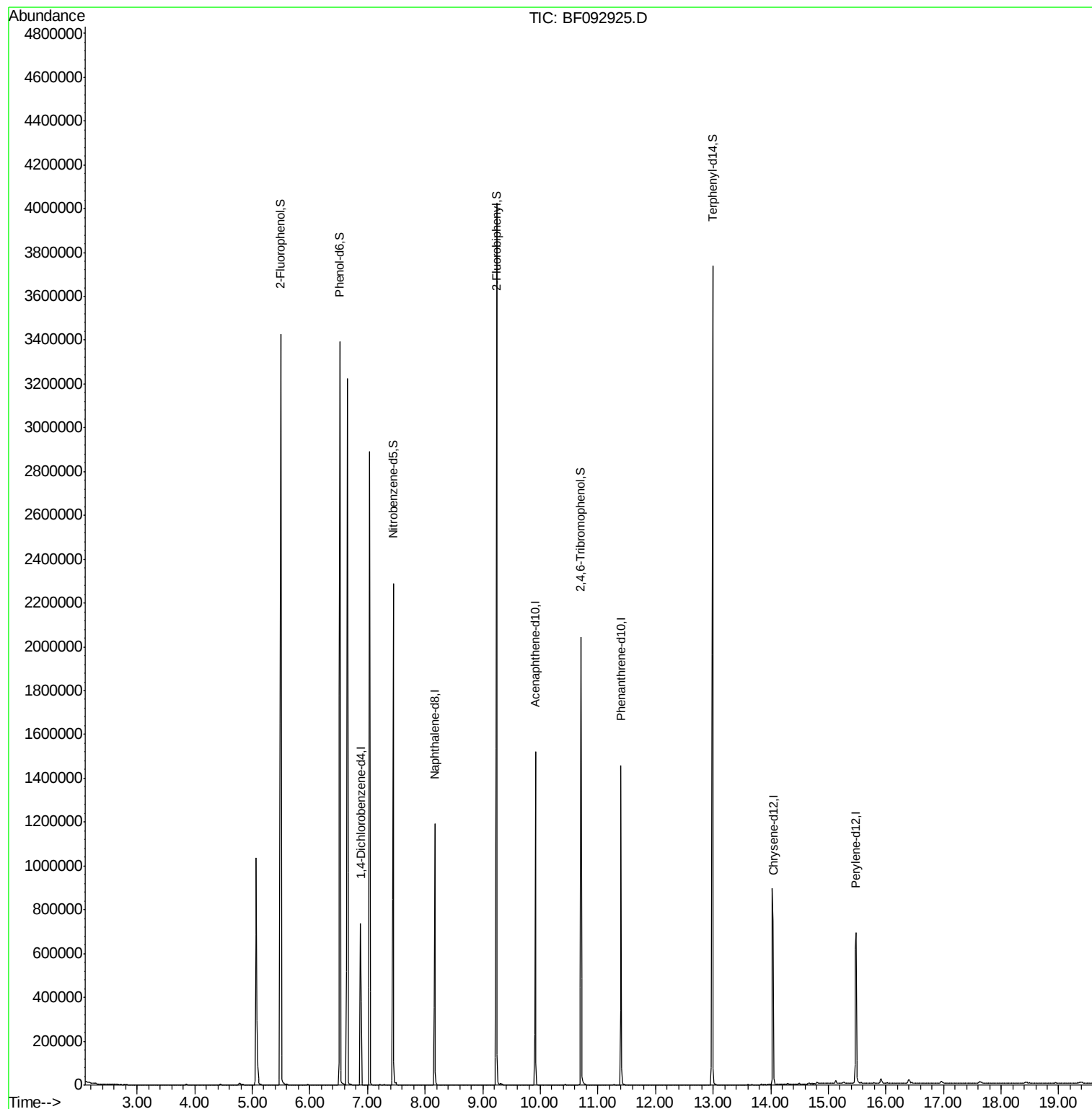
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021317\  
Data File : BF092925.D  
Acq On : 13 Feb 2017 18:29  
Operator : SJ/MA  
Sample : PB96899BL  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

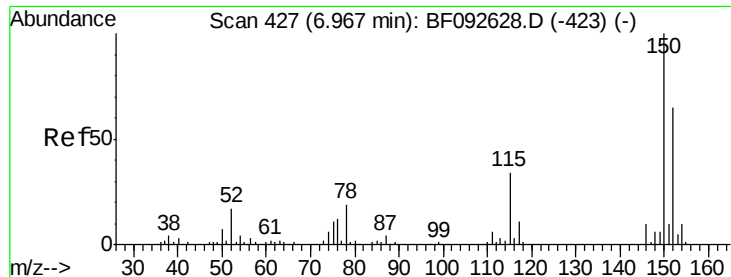
Instrument :  
BNA\_F  
ClientSampleId :  
PB96899BL

Manual Integrations  
APPROVED

mohammad  
2/14/2017 11:30:21 AM

Quant Time: Feb 14 10:08:57 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Feb 13 18:04:38 2017  
Response via : Initial Calibration





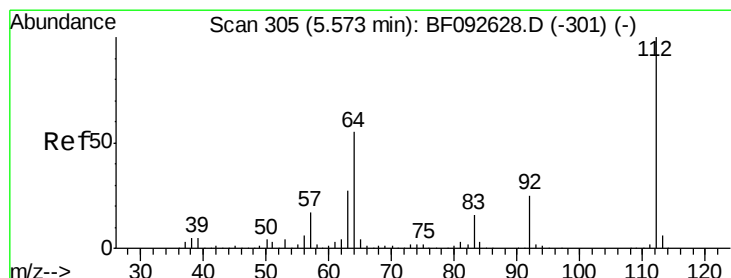
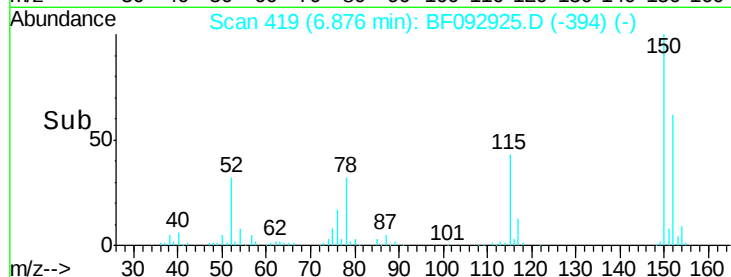
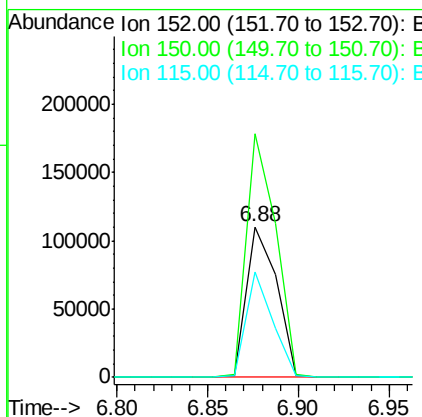
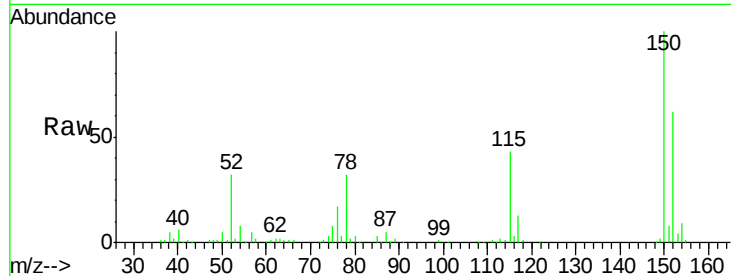
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng m  
 RT: 6.88 min Scan# 419  
 Delta R.T. -0.01 min  
 Lab File: BF092925.D  
 Acq: 13 Feb 2017 18:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB96899BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.5 | 124.9 | 187.3 |
| 115     | 69.7  | 46.0  | 69.0  |

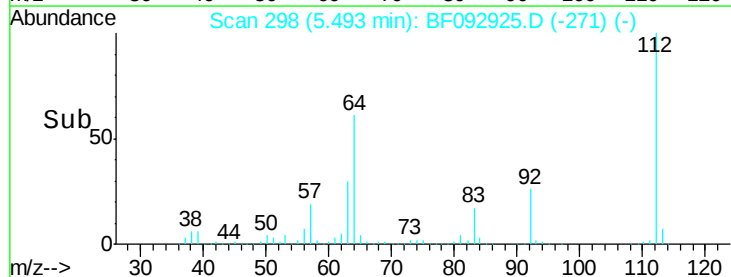
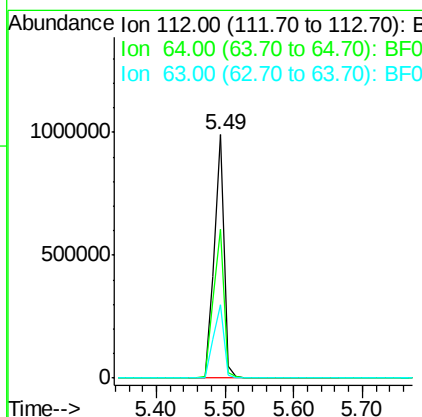
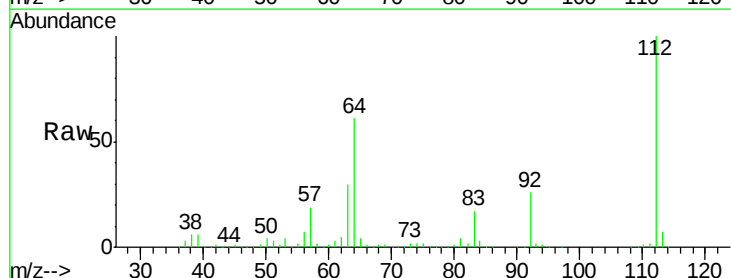
Manual Integrations  
 APPROVED

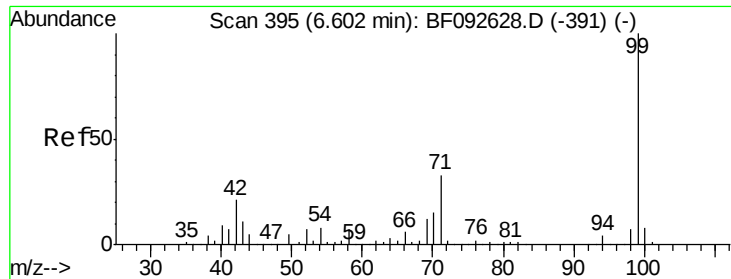
mohammad  
 2/14/2017 11:30:21 AM



#5  
 2-Fluorophenol  
 Concen: 134.55 ng  
 RT: 5.49 min Scan# 298  
 Delta R.T. 0.01 min  
 Lab File: BF092925.D  
 Acq: 13 Feb 2017 18:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.3  | 46.1  | 69.1  |
| 63      | 30.3  | 23.8  | 35.6  |





#7

Phenol-d6

Concen: 133.37 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.01 min

Lab File: BF092925.D

Acq: 13 Feb 2017 18:29

Instrument :

BNA\_F

ClientSampleId :

PB96899BL

Tgt Ion: 99 Resp: 1298720

Ion Ratio Lower Upper

99 100

42 18.7 15.6 23.4

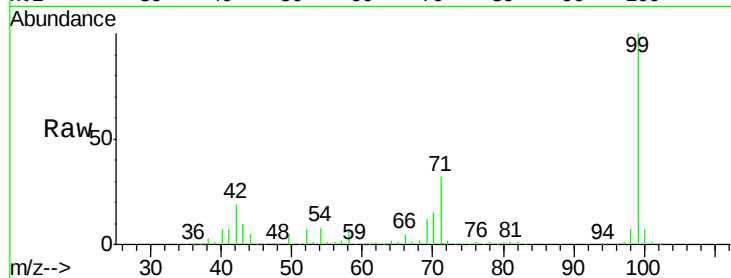
71 32.1 27.5 41.3

Manual Integrations

APPROVED

mohammad

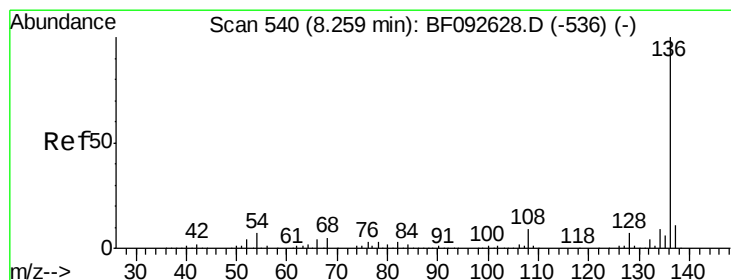
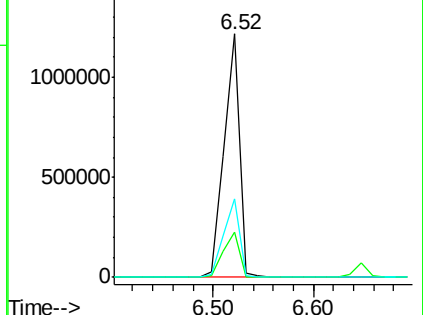
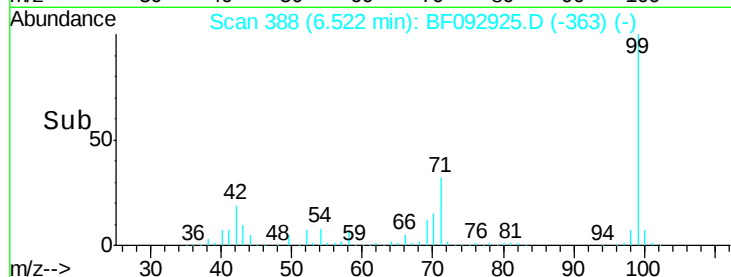
2/14/2017 11:30:21 AM



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: 8.17 min Scan# 532

Delta R.T. 0.00 min

Lab File: BF092925.D

Acq: 13 Feb 2017 18:29

Tgt Ion: 136 Resp: 559273

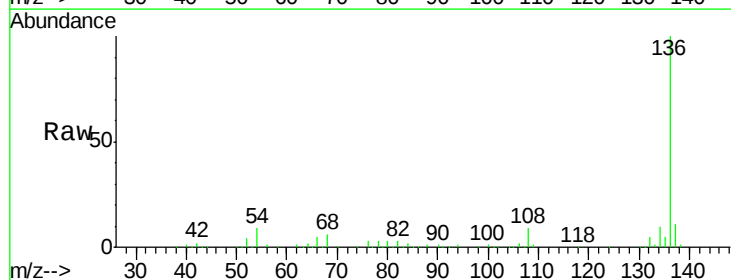
Ion Ratio Lower Upper

136 100

137 10.9 8.4 12.6

54 8.8 4.5 6.7#

68 5.9 3.6 5.4#

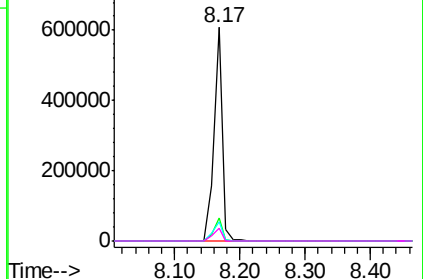
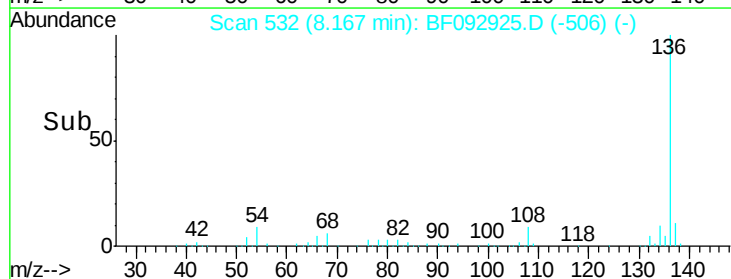


Abundance Ion 136.00 (135.70 to 136.70): E

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





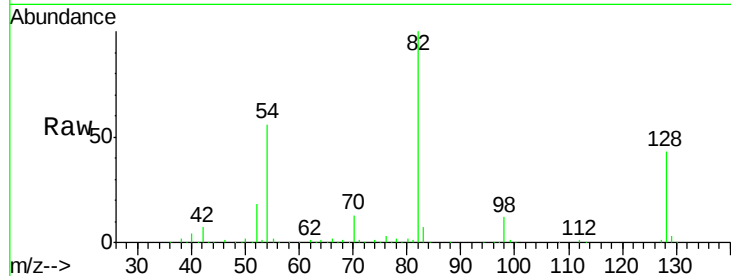
#23  
 Nitrobenzene-d5  
 Concen: 76.75 ng  
 RT: 7.45 min Scan# 469  
 Delta R.T. -0.01 min  
 Lab File: BF092925.D  
 Acq: 13 Feb 2017 18:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB96899BL

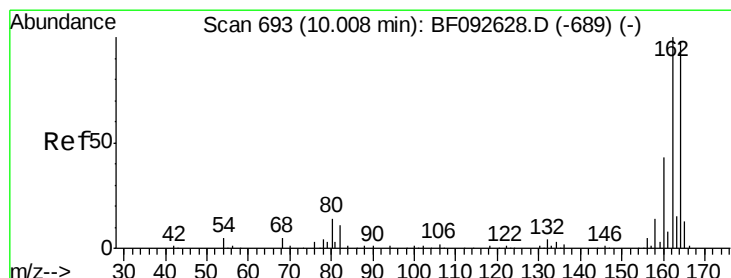
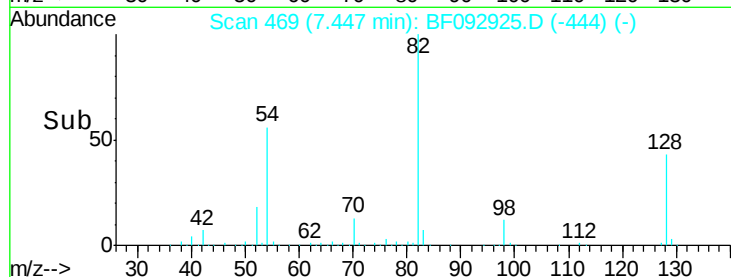
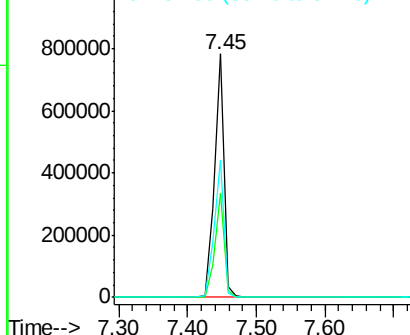
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.8  | 34.6  | 52.0  |
| 54      | 56.2  | 39.5  | 59.3  |

Manual Integrations  
 APPROVED

mohammad  
 2/14/2017 11:30:21 AM

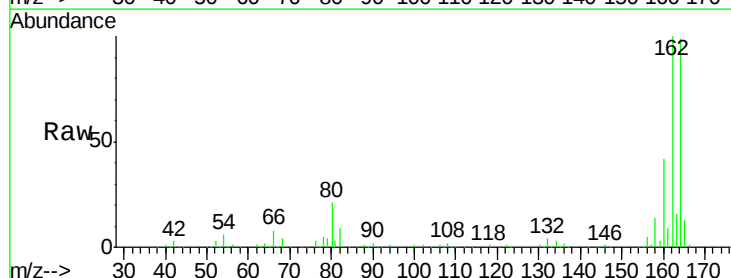


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

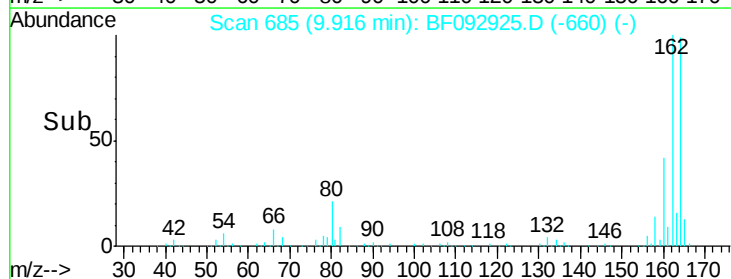
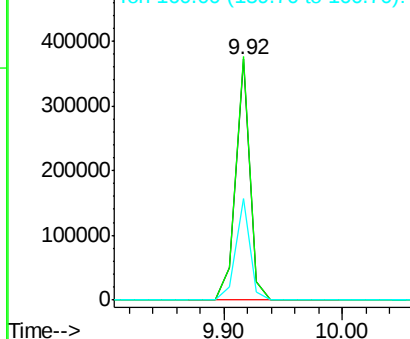


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.92 min Scan# 685  
 Delta R.T. -0.01 min  
 Lab File: BF092925.D  
 Acq: 13 Feb 2017 18:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.2 | 80.2  | 120.2 |
| 160     | 42.2  | 36.9  | 55.3  |



Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E





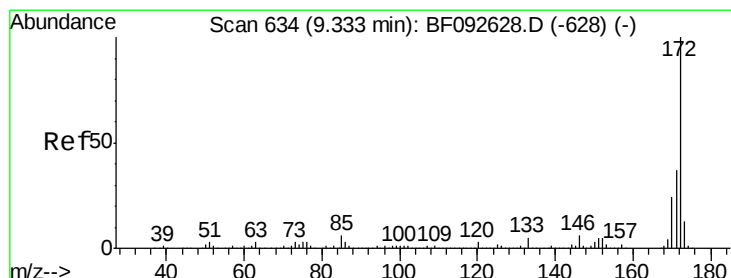
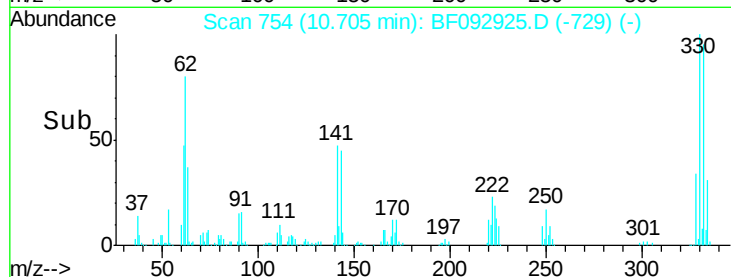
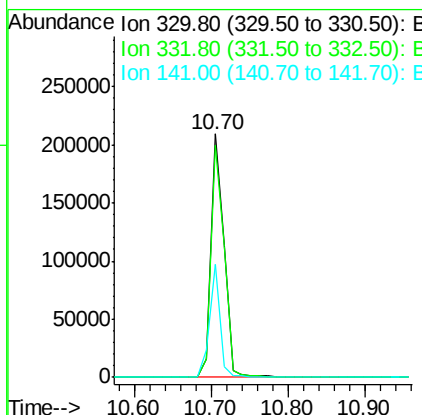
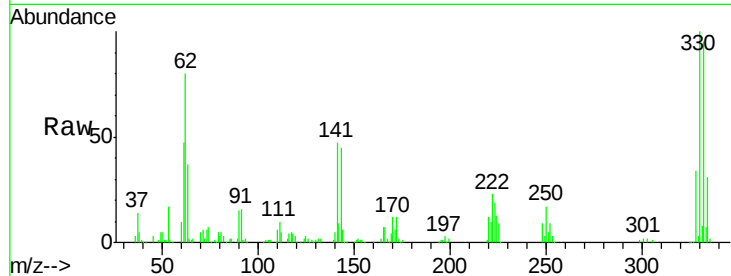
#41  
 2,4,6-Tribromophenol  
 Concen: 108.62 ng  
 RT: 10.70 min Scan# 754  
 Delta R.T. -0.01 min  
 Lab File: BF092925.D  
 Acq: 13 Feb 2017 18:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB96899BL

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 244114 |       |       |
| 332     | 96.5  | 77.4   | 116.2 |       |
| 141     | 37.7  | 34.1   | 51.1  |       |

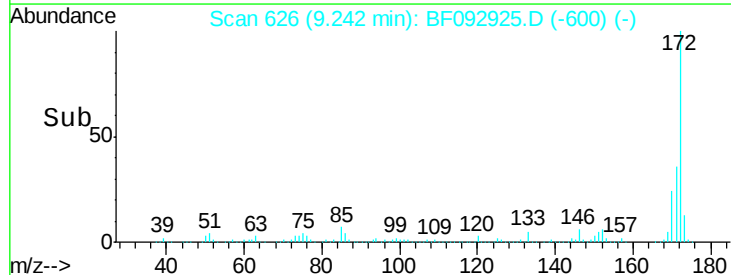
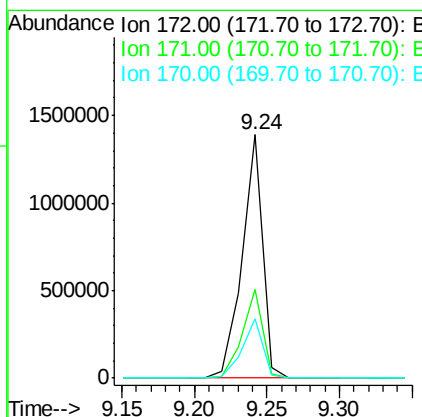
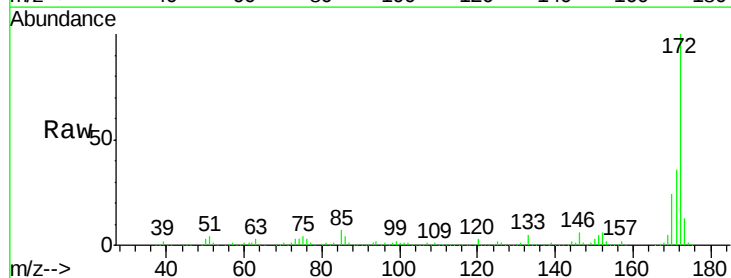
Manual Integrations  
 APPROVED

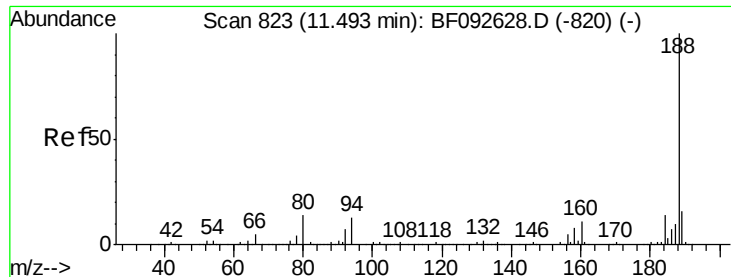
mohammad  
 2/14/2017 11:30:21 AM



#44  
 2-Fluorobiphenyl  
 Concen: 79.67 ng  
 RT: 9.24 min Scan# 626  
 Delta R.T. 0.00 min  
 Lab File: BF092925.D  
 Acq: 13 Feb 2017 18:29

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1366570 |       |       |
| 171     | 36.2  | 29.4    | 44.0  |       |
| 170     | 24.4  | 20.2    | 30.4  |       |





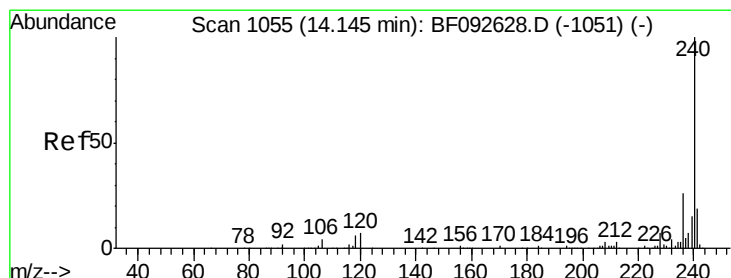
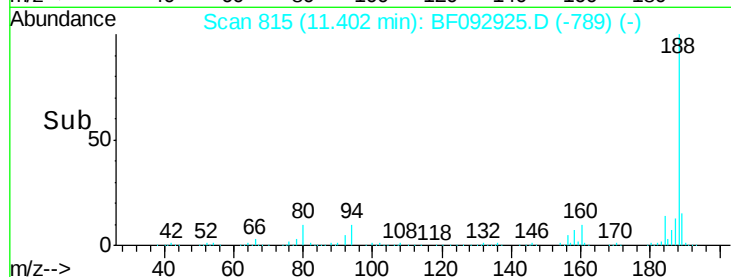
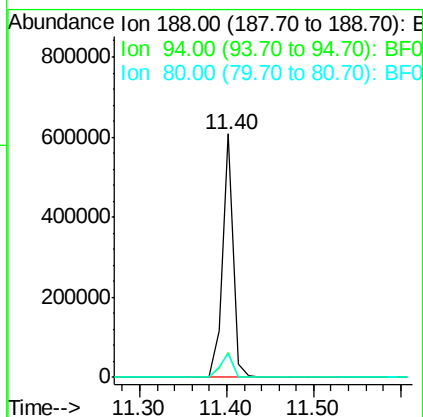
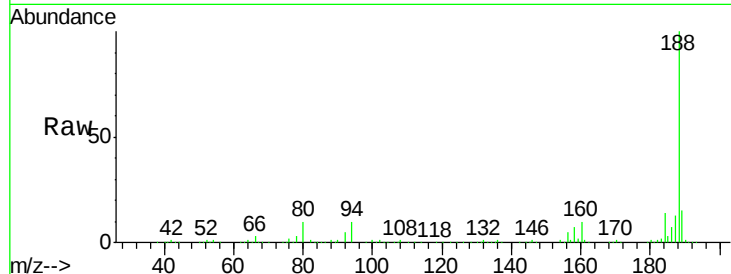
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.40 min Scan# 815  
Delta R.T. 0.00 min  
Lab File: BF092925.D  
Acq: 13 Feb 2017 18:29

Instrument :  
BNA\_F  
ClientSampleId :  
PB96899BL

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 527897 |       |       |
| 94      | 10.0  | 10.0   | 15.0# |       |
| 80      | 9.8   | 11.2   | 16.8# |       |

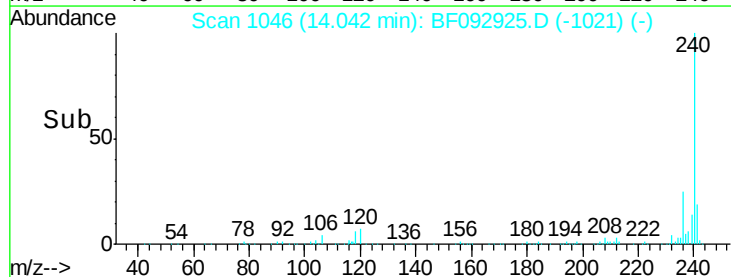
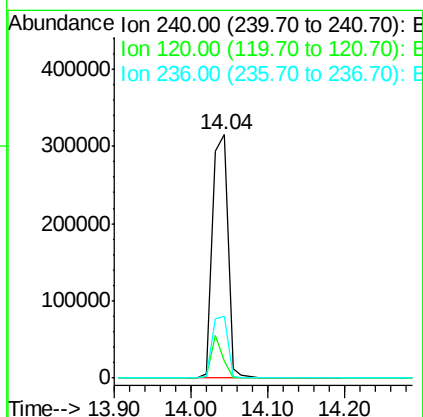
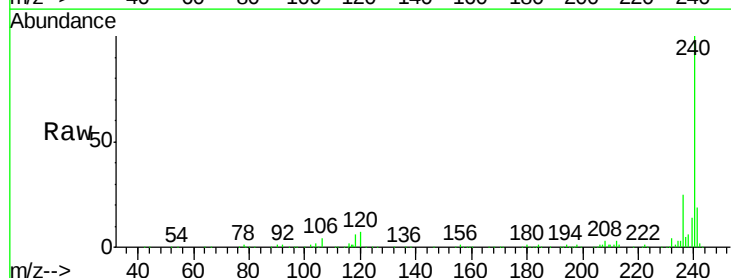
Manual Integrations  
APPROVED

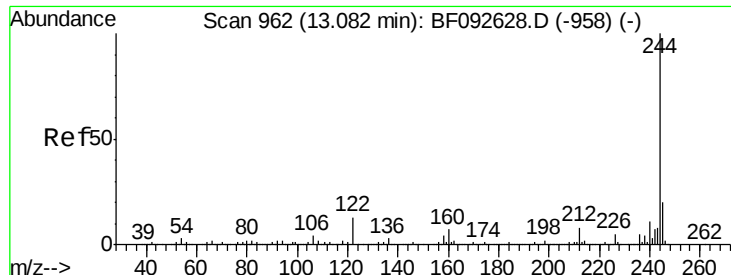
mohammad  
2/14/2017 11:30:21 AM



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.04 min Scan# 1046  
Delta R.T. -0.01 min  
Lab File: BF092925.D  
Acq: 13 Feb 2017 18:29

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 435870 |       |       |
| 120     | 6.8   | 12.9   | 19.3# |       |
| 236     | 25.5  | 20.9   | 31.3  |       |





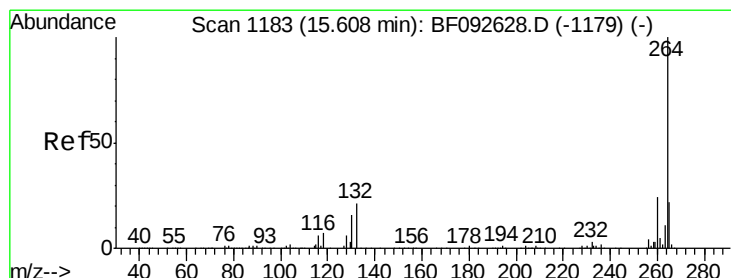
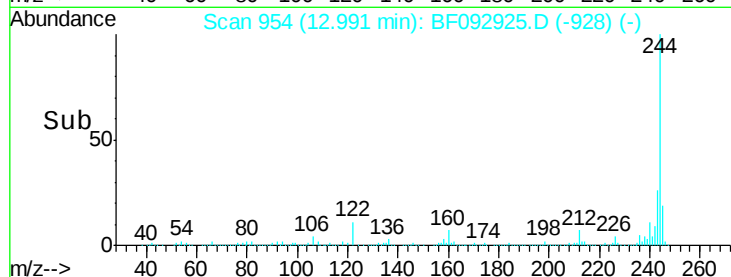
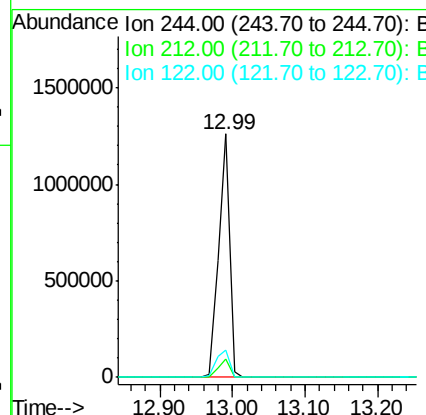
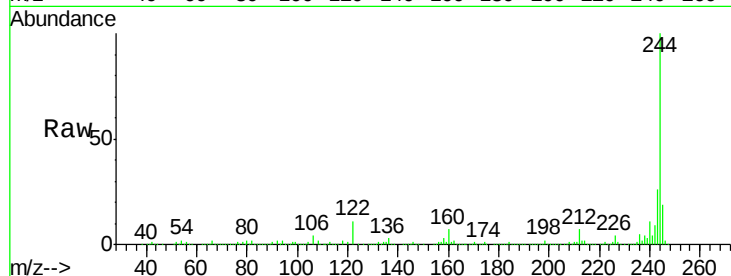
#78  
 Terphenyl-d14  
 Concen: 71.19 ng  
 RT: 12.99 min Scan# 954  
 Delta R.T. 0.00 min  
 Lab File: BF092925.D  
 Acq: 13 Feb 2017 18:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB96899BL

Tgt Ion:244 Resp: 1320532  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 6.2 9.2  
 122 11.0 11.4 17.2#

Manual Integrations  
 APPROVED

mohammad  
 2/14/2017 11:30:21 AM



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.48 min Scan# 1172  
 Delta R.T. 0.00 min  
 Lab File: BF092925.D  
 Acq: 13 Feb 2017 18:29

Tgt Ion:264 Resp: 372539  
 Ion Ratio Lower Upper  
 264 100  
 260 23.8 19.2 28.8  
 265 21.4 17.4 26.0

