

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020817\  
 Data File : BF092874.D  
 Acq On : 9 Feb 2017 00:52  
 Operator : SJ/MA  
 Sample : I1754-09  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-B1-B2021-CONCRETE

Manual Integrations  
 APPROVED

mohammad  
 2/9/2017 12:31:38 PM

Quant Time: Feb 09 12:42:01 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 08 23:48:40 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.89  | 152  | 140361   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.18  | 136  | 571750   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.94  | 164  | 310419   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.42 | 188  | 525993   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.05 | 240  | 441705   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.51 | 264  | 390742   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |       |    |       |
|--------------------------|-------|-----|---------|-------|----|-------|
| 5) 2-Fluorophenol        | 5.50  | 112 | 2444    | 0.30  | ng | 0.01  |
| 7) Phenol-d6             | 6.52  | 99  | 207370  | 19.70 | ng | -0.01 |
| 23) Nitrobenzene-d5      | 7.46  | 82  | 783754  | 76.34 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol | 0.00  | 330 | 0       | 0.00  | ng |       |
| 44) 2-Fluorobiphenyl     | 9.25  | 172 | 1265447 | 73.85 | ng | -0.01 |
| 78) Terphenyl-d14        | 13.00 | 244 | 1371202 | 72.94 | ng | -0.01 |

## Target Compounds

|                            |       |     |          |        |    | Qvalue |
|----------------------------|-------|-----|----------|--------|----|--------|
| 10) Phenol                 | 6.53  | 94  | 204138   | 16.57  | ng | # 72   |
| 17) 2-Methylphenol         | 7.15  | 107 | 105171   | 13.58  | ng | # 92   |
| 20) 3+4-Methylphenols      | 7.31  | 107 | 285523   | 30.84  | ng | # 70   |
| 27) 2,4-Dimethylphenol     | 7.84  | 122 | 78499    | 8.92   | ng | 94     |
| 31) Naphthalene            | 8.20  | 128 | 1405782  | 48.50  | ng | 99     |
| 37) 2-Methylnaphthalene    | 8.89  | 142 | 586764   | 31.53  | ng | 99     |
| 45) 1,1'-Biphenyl          | 9.36  | 154 | 196812   | 8.76   | ng | 97     |
| 48) Acenaphthylene         | 9.79  | 152 | 90835    | 2.99   | ng | 97     |
| 49) Dimethylphthalate      | 9.65  | 163 | 135504   | 6.48   | ng | 99     |
| 51) Acenaphthene           | 9.97  | 154 | 723697   | 39.85  | ng | 97     |
| 54) Dibenzofuran           | 10.13 | 168 | 830627   | 34.19  | ng | 98     |
| 57) Fluorene               | 10.49 | 166 | 897541   | 48.03  | ng | 98     |
| 70) Phenanthrene           | 11.46 | 178 | 3240773m | 107.54 | ng |        |
| 71) Anthracene             | 11.49 | 178 | 514854m  | 17.01  | ng |        |
| 72) Carbazole              | 11.65 | 167 | 255855   | 8.84   | ng | # 96   |
| 74) Fluoranthene           | 12.64 | 202 | 1823468  | 58.66  | ng | 99     |
| 77) Pyrene                 | 12.86 | 202 | 1471980  | 44.53  | ng | 99     |
| 80) Benzo(a)anthracene     | 14.04 | 228 | 507463   | 18.78  | ng | 98     |
| 82) Chrysene               | 14.09 | 228 | 307625m  | 12.16  | ng |        |
| 85) Indeno(1,2,3-cd)pyrene | 16.92 | 276 | 55020    | 2.81   | ng | # 85   |
| 87) Benzo(b)fluoranthene   | 15.08 | 252 | 266684m  | 10.37  | ng |        |
| 88) Benzo(k)fluoranthene   | 15.09 | 252 | 113900m  | 5.13   | ng |        |
| 89) Benzo(a)pyrene         | 15.44 | 252 | 162680   | 7.31   | ng | 97     |
| 91) Benzo(g,h,i)perylene   | 17.36 | 276 | 51491    | 2.83   | ng | # 92   |

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

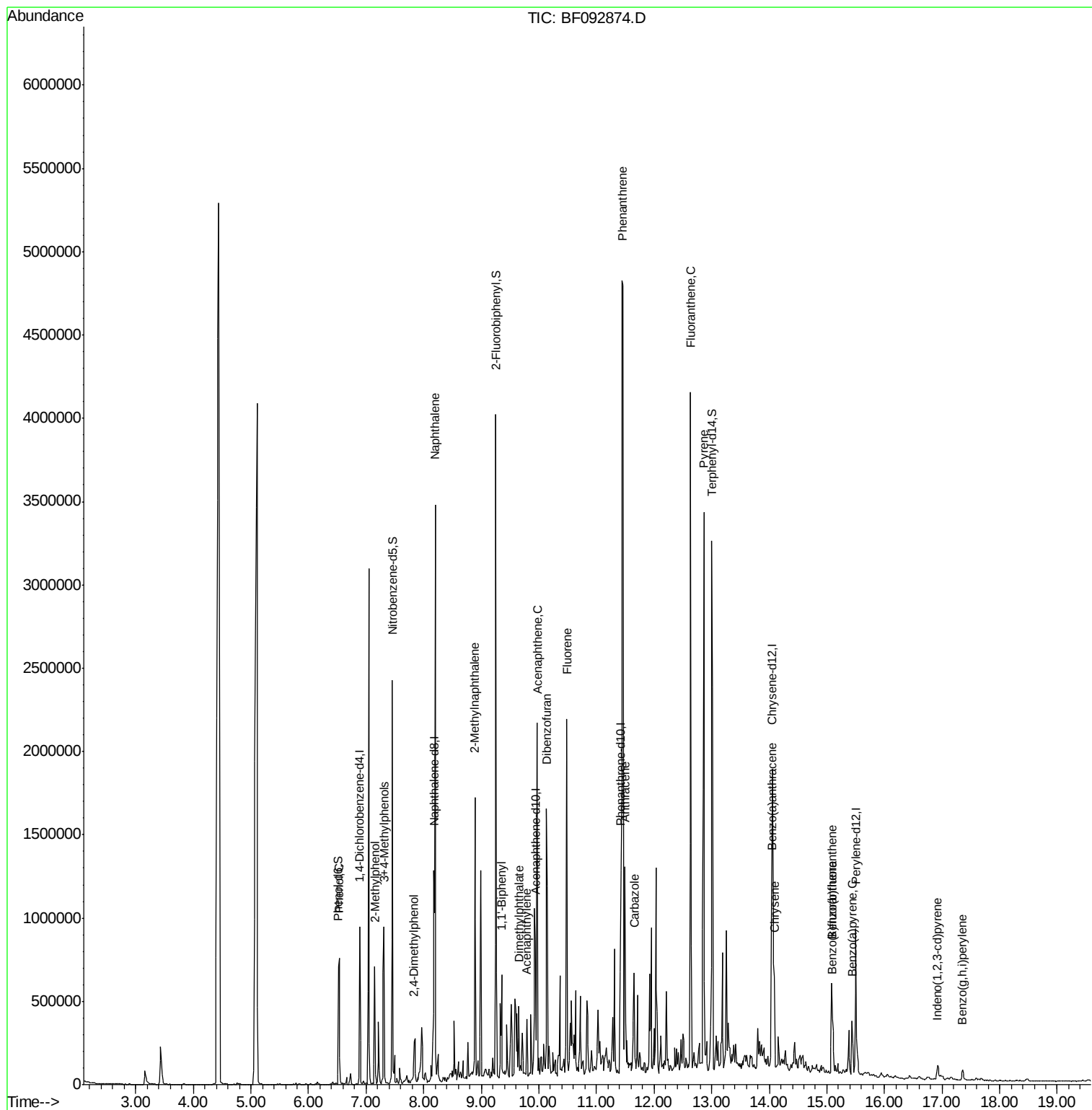
Data Path : Z:\HPCHEM1\BNA F\DATA\BF020817\  
Data File : BF092874.D  
Acq On : 9 Feb 2017 00:52  
Operator : SJ/MA  
Sample : I1754-09  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

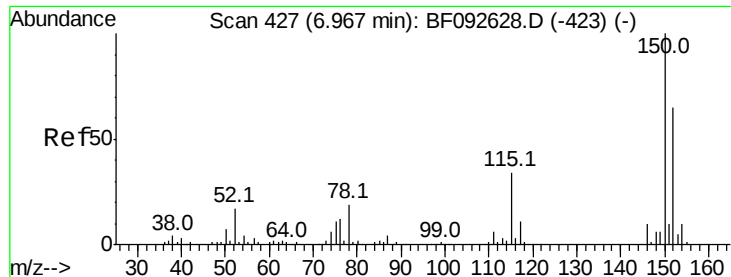
Instrument :  
BNA\_F  
ClientSampleId :  
E2-B1-B2021-CONCRETE

Manual Integrations  
APPROVED

mohammad  
2/9/2017 12:31:38 PM

Quant Time: Feb 09 12:42:01 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 08 23:48:40 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.89 min Scan# 420

Delta R.T. -0.01 min

Lab File: BF092874.D

Acq: 9 Feb 2017 00:52

Instrument :

BNA\_F

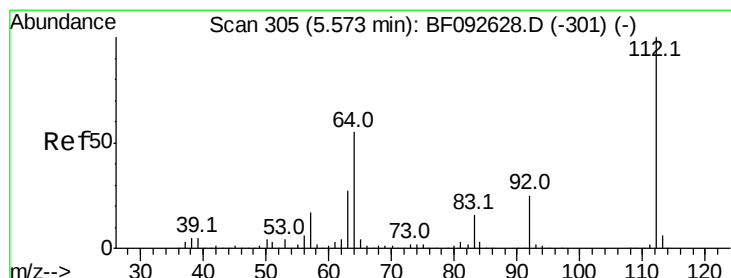
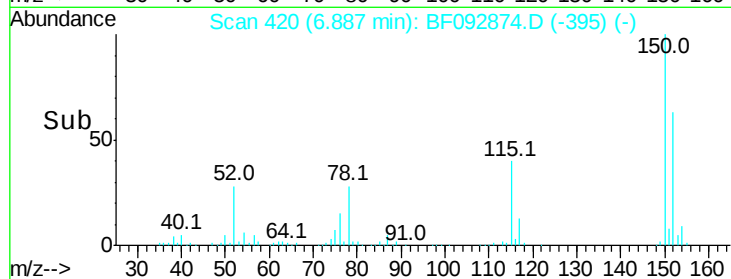
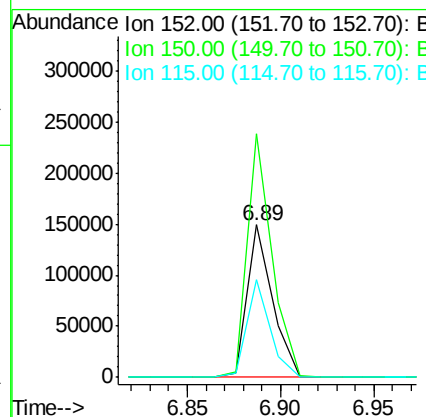
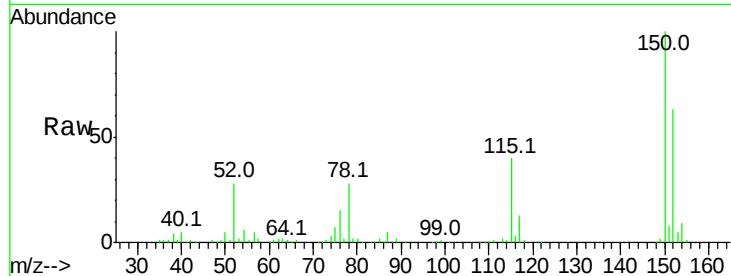
ClientSampleId :

E2-B1-B2021-CONCRETE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 140361 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 159.5 | 124.9 | 187.3  |
| 115       | 64.1  | 46.0  | 69.0   |

Manual Integrations  
APPROVED

mohammad  
2/9/2017 12:31:38 PM



#5

2-Fluorophenol

Concen: 0.30 ng

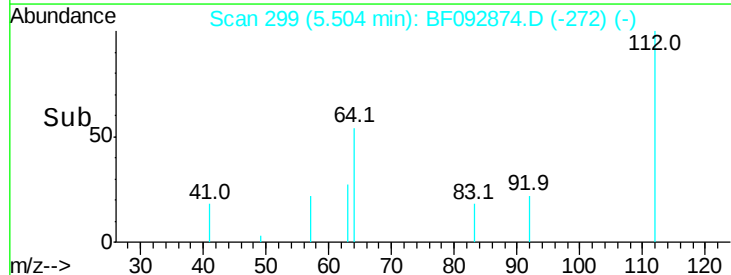
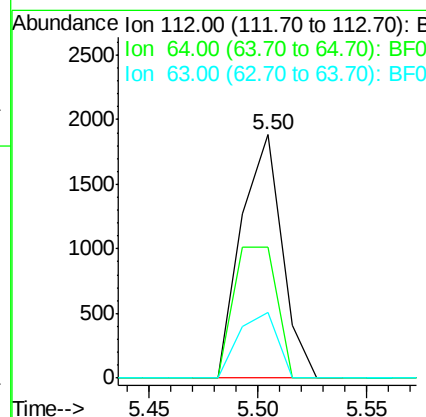
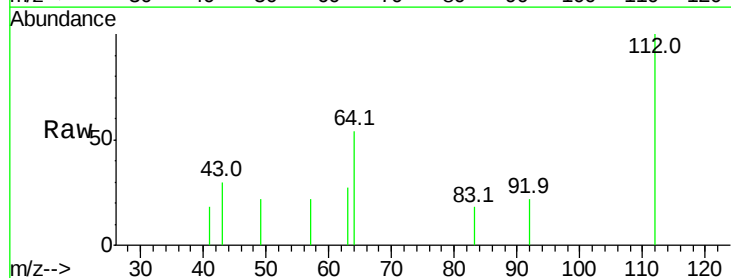
RT: 5.50 min Scan# 299

Delta R.T. 0.01 min

Lab File: BF092874.D

Acq: 9 Feb 2017 00:52

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 2444 |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 64        | 53.6  | 46.1  | 69.1 |
| 63        | 26.8  | 23.8  | 35.6 |





#7

Phenol-d6

Concen: 19.70 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.01 min

Lab File: BF092874.D

Acq: 9 Feb 2017 00:52

Instrument :

BNA\_F

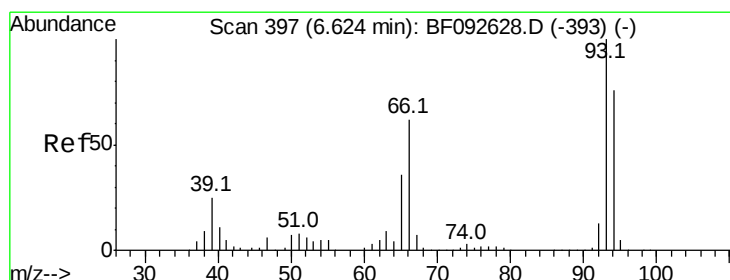
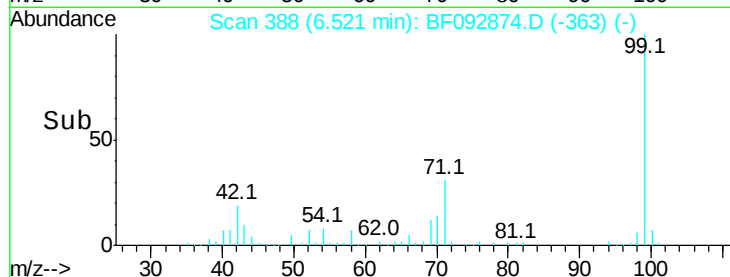
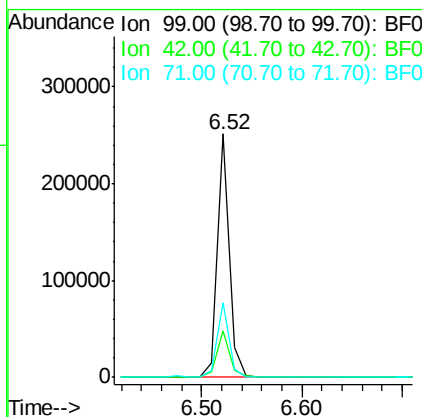
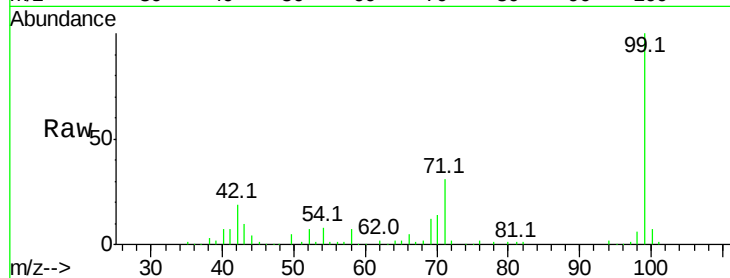
ClientSampleId :

E2-B1-B2021-CONCRETE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 207370 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.2  | 15.6  | 23.4   |
| 71        | 30.7  | 27.5  | 41.3   |

Manual Integrations  
APPROVED

mohammad  
2/9/2017 12:31:38 PM



#10

Phenol

Concen: 16.57 ng

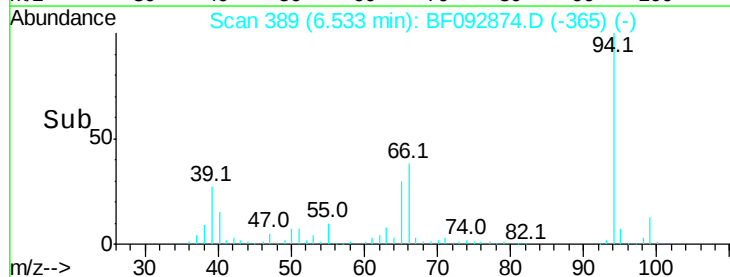
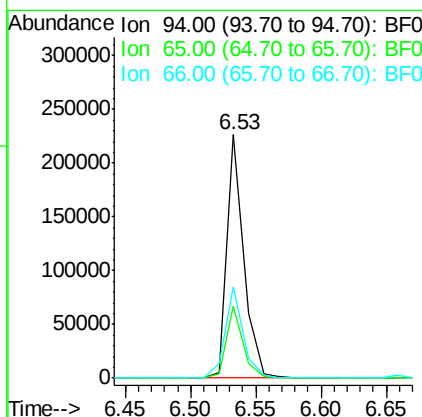
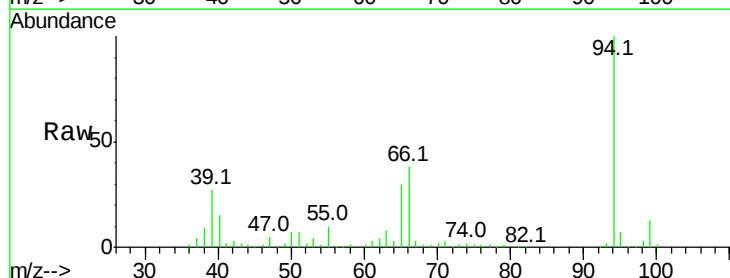
RT: 6.53 min Scan# 389

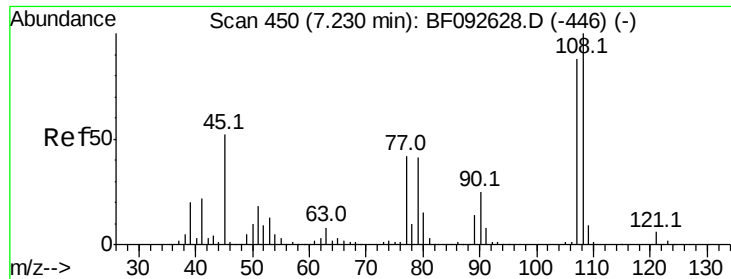
Delta R.T. -0.02 min

Lab File: BF092874.D

Acq: 9 Feb 2017 00:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 94    | Resp: | 204138 |
| Ion Ratio | Lower | Upper |        |
| 94        | 100   |       |        |
| 65        | 29.6  | 21.4  | 61.4   |
| 66        | 37.7  | 44.0  | 84.0#  |





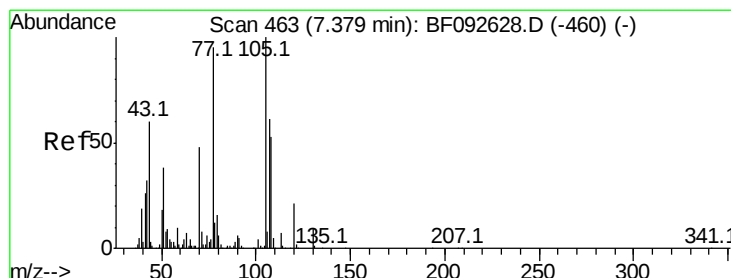
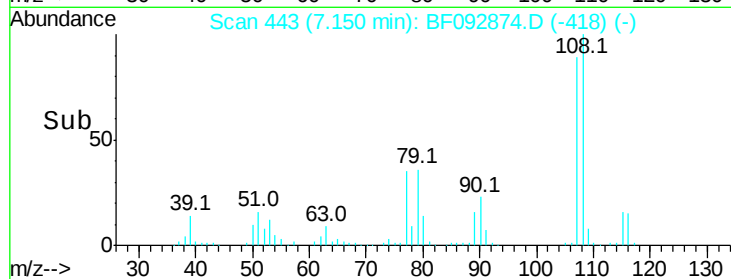
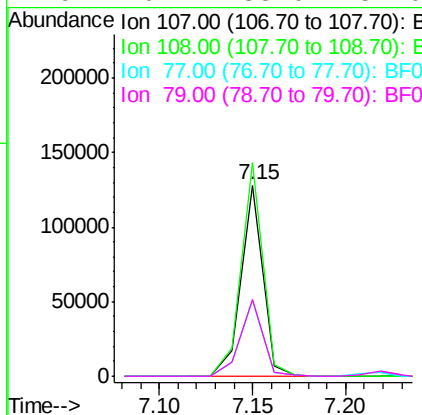
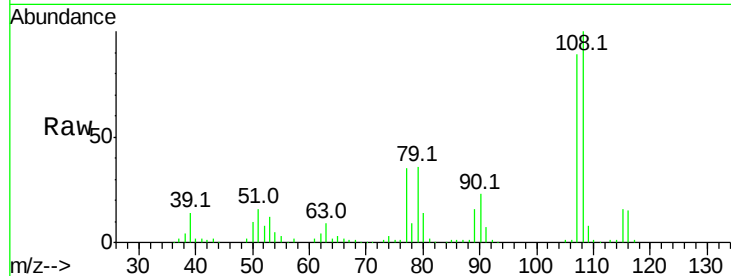
#17  
2-Methylphenol  
Concen: 13.58 ng  
RT: 7.15 min Scan# 443  
Delta R.T. -0.01 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

Instrument :  
BNA\_F  
ClientSampleId :  
E2-B1-B2021-CONCRETE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 107     | 100   | 105171 |       |       |
| 108     | 112.0 | 93.0   | 139.6 |       |
| 77      | 39.5  | 39.8   | 59.8  |       |
| 79      | 40.2  | 38.0   | 57.0  |       |

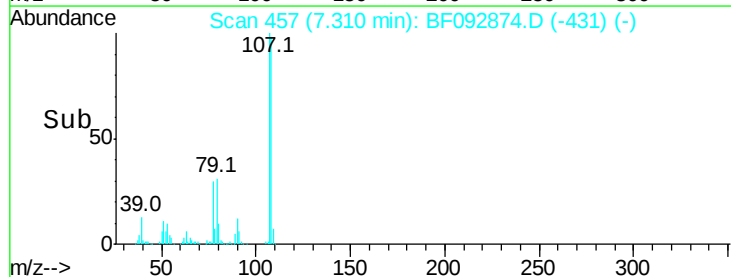
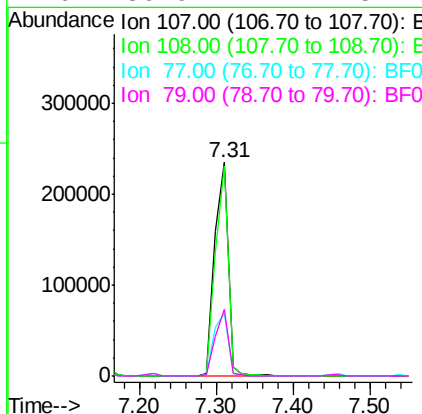
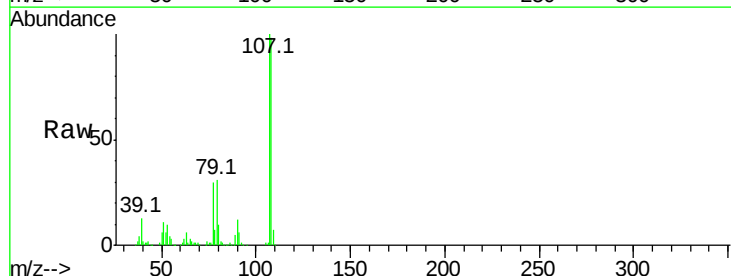
Manual Integrations  
APPROVED

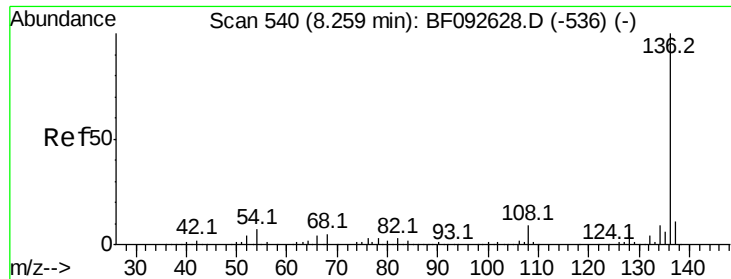
mohammad  
2/9/2017 12:31:38 PM



#20  
3+4-Methylphenols  
Concen: 30.84 ng  
RT: 7.31 min Scan# 457  
Delta R.T. -0.00 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 107     | 100   | 285523 |       |       |
| 108     | 98.4  | 73.0   | 113.0 |       |
| 77      | 29.6  | 71.3   | 111.3 |       |
| 79      | 30.9  | 11.1   | 51.1  |       |





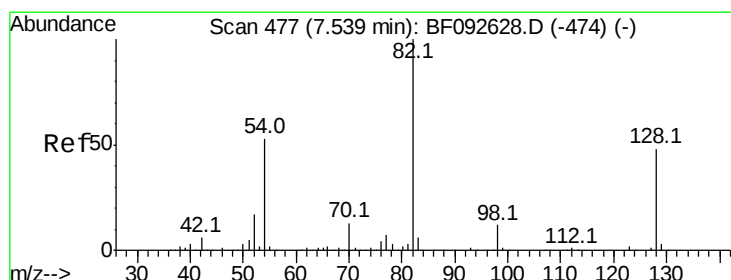
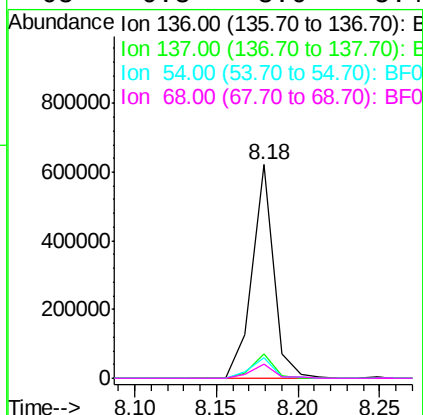
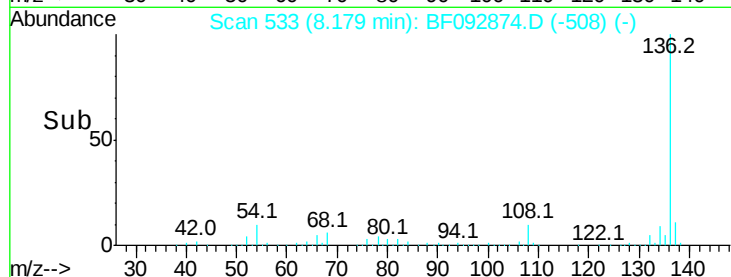
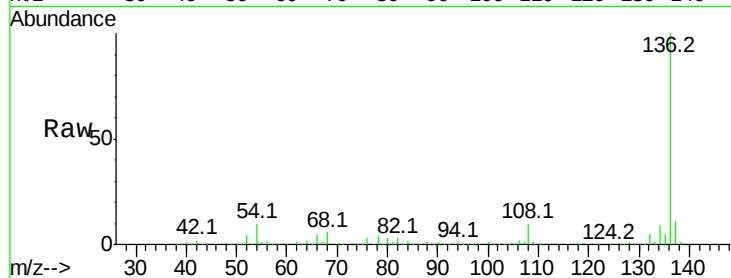
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.18 min Scan# 533  
Delta R.T. -0.01 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

Instrument :  
BNA\_F  
ClientSampleId :  
E2-B1-B2021-CONCRETE

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.1  | 8.4  | 12.6  |       |
| 54      | 9.7   | 4.5  | 6.7#  |       |
| 68      | 6.3   | 3.6  | 5.4#  |       |

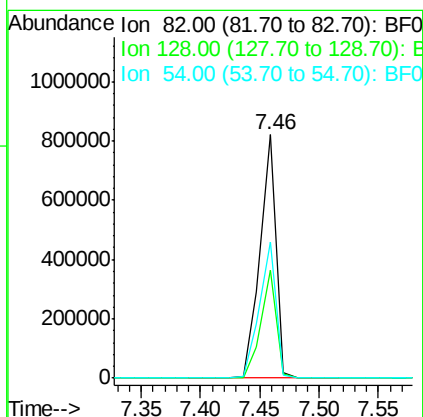
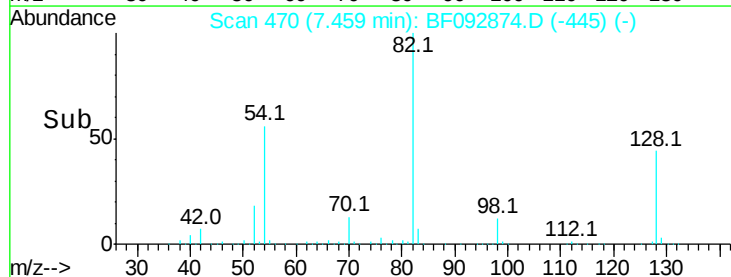
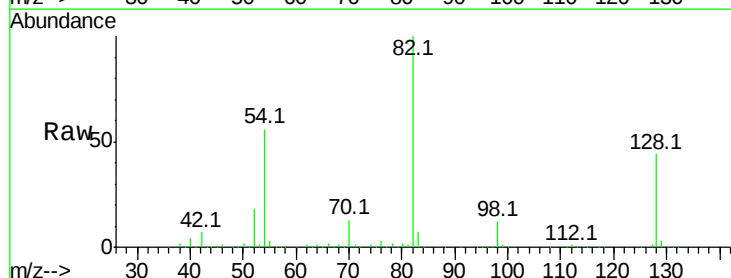
Manual Integrations  
APPROVED

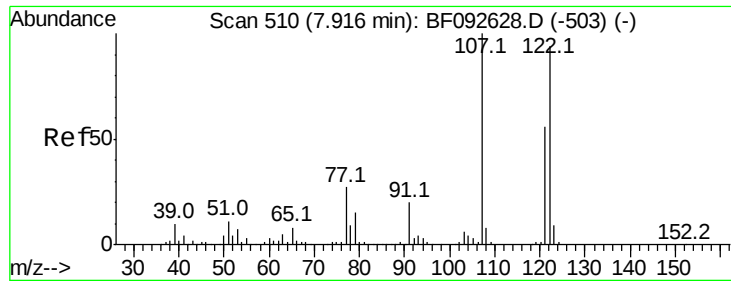
mohammad  
2/9/2017 12:31:38 PM



#23  
Nitrobenzene-d5  
Concen: 76.34 ng  
RT: 7.46 min Scan# 470  
Delta R.T. -0.01 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 44.3  | 34.6 | 52.0  |       |
| 54      | 56.1  | 39.5 | 59.3  |       |





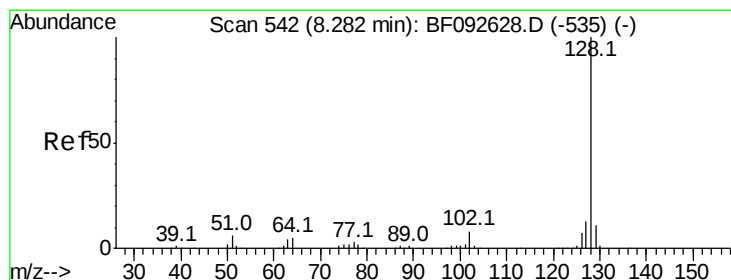
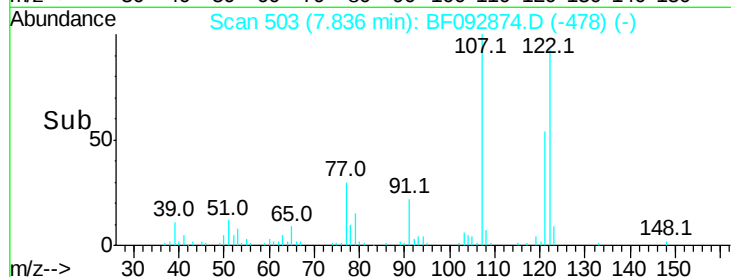
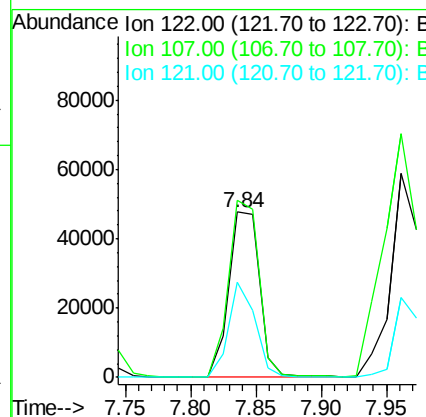
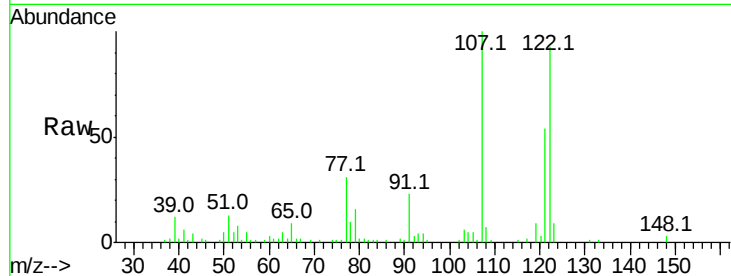
#27  
 2,4-Dimethylphenol  
 Concen: 8.92 ng  
 RT: 7.84 min Scan# 503  
 Delta R.T. -0.01 min  
 Lab File: BF092874.D  
 Acq: 9 Feb 2017 00:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-B1-B2021-CONCRETE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 107     | 107.3 | 94.1  | 141.1 |
| 121     | 57.4  | 46.0  | 69.0  |

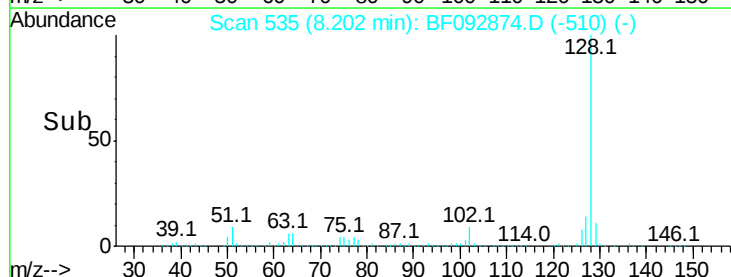
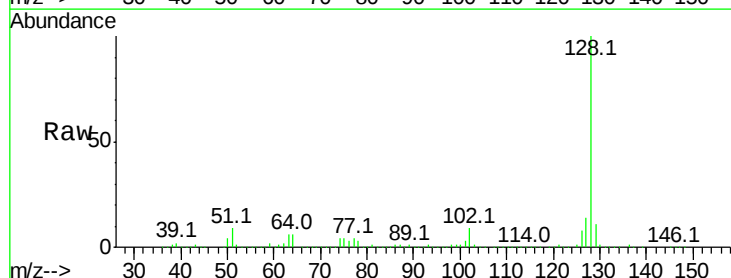
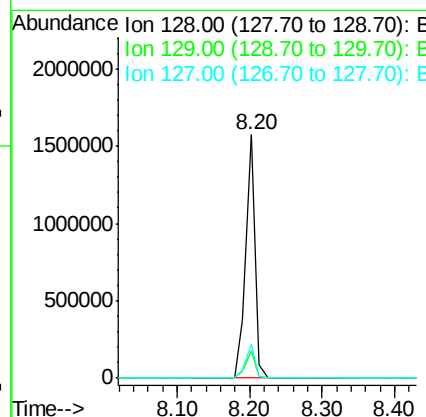
Manual Integrations  
 APPROVED

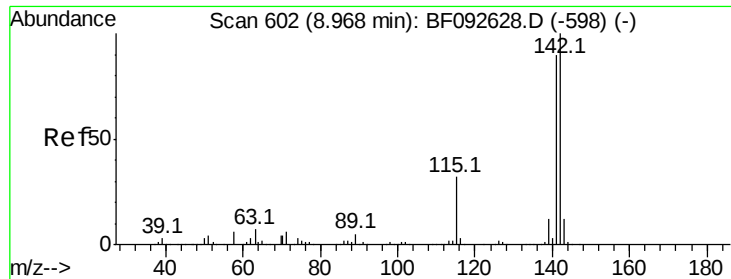
mohammad  
 2/9/2017 12:31:38 PM



#31  
 Naphthalene  
 Concen: 48.50 ng  
 RT: 8.20 min Scan# 535  
 Delta R.T. -0.01 min  
 Lab File: BF092874.D  
 Acq: 9 Feb 2017 00:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.1  | 9.5   | 14.3  |
| 127     | 13.7  | 10.8  | 16.2  |





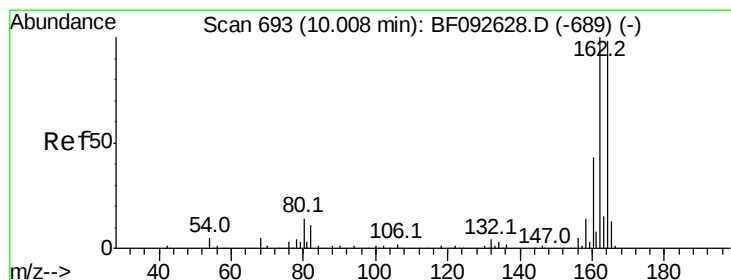
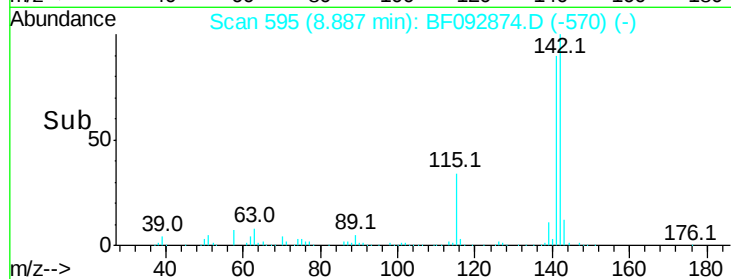
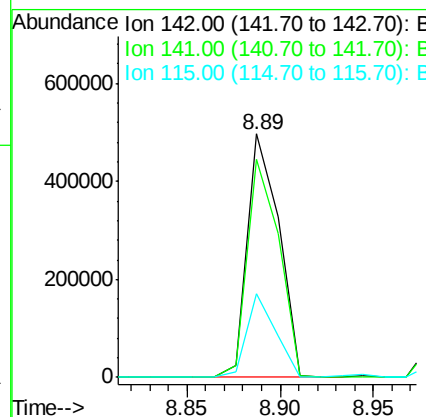
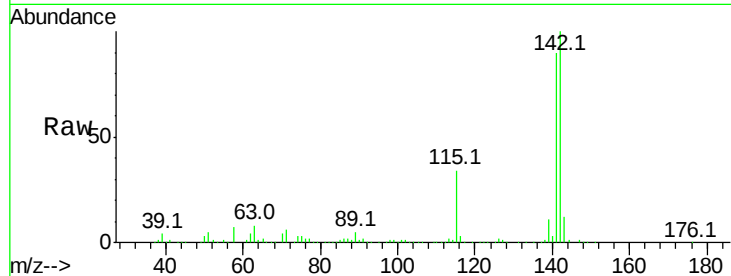
#37  
2-Methylnaphthalene  
Concen: 31.53 ng  
RT: 8.89 min Scan# 595  
Delta R.T. -0.01 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

Instrument :  
BNA\_F  
ClientSampleId :  
E2-B1-B2021-CONCRETE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 586764 |       |       |
| 141     | 89.6  | 71.0   | 106.6 |       |
| 115     | 34.2  | 28.3   | 42.5  |       |

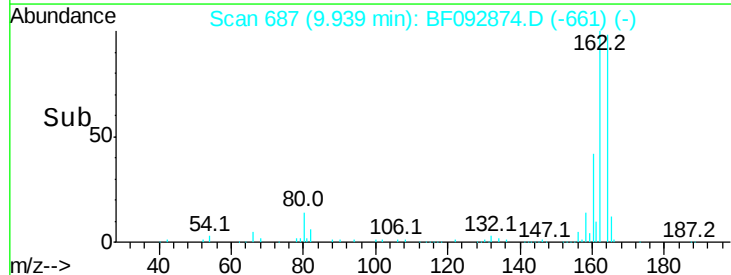
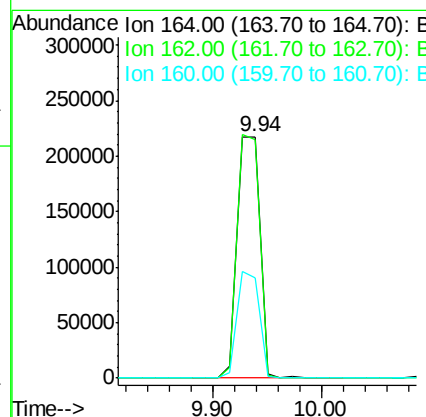
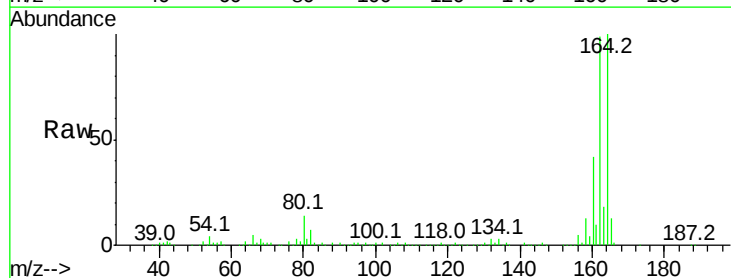
Manual Integrations  
APPROVED

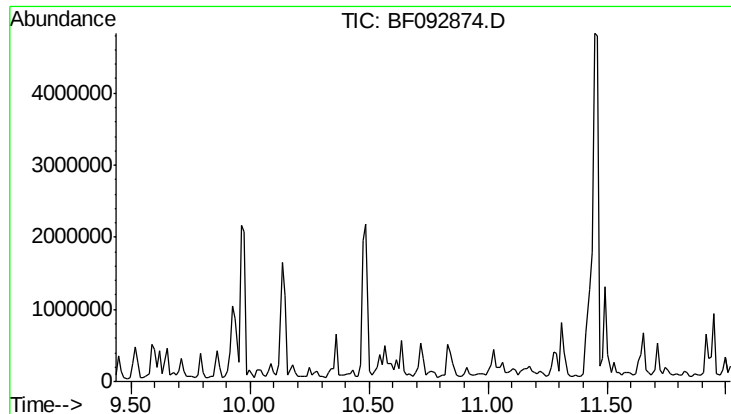
mohammad  
2/9/2017 12:31:38 PM



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.94 min Scan# 687  
Delta R.T. -0.00 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 310419 |       |       |
| 162     | 99.1  | 80.2   | 120.2 |       |
| 160     | 41.6  | 36.9   | 55.3  |       |





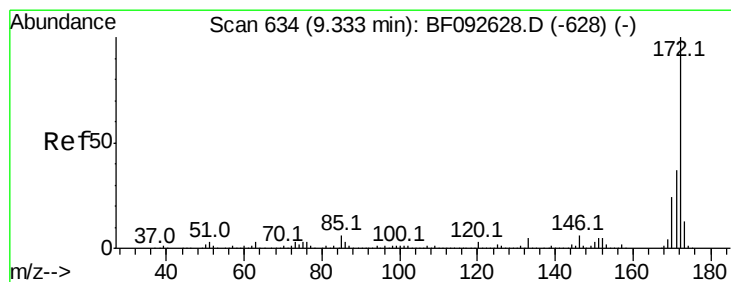
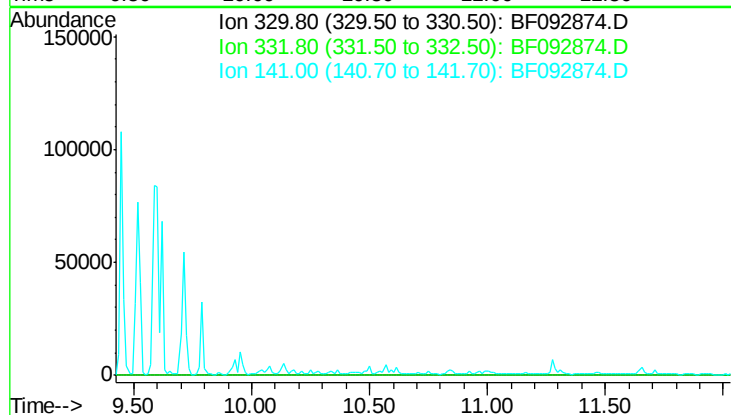
#41  
 2,4,6-Tribromophenol  
 Concen: 0.00 ng  
 Expected RT: 10.73 min  
 Lab File: BF092874.D  
 Acq: 9 Feb 2017 00:52

| Tot Ion   | 330 | 332  | 141  |
|-----------|-----|------|------|
| Exp Ratio | 100 | 96.8 | 42.6 |

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-B1-B2021-CONCRETE

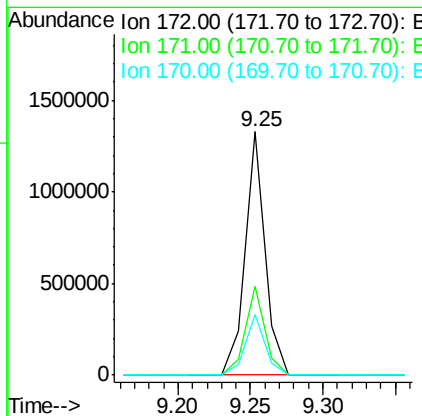
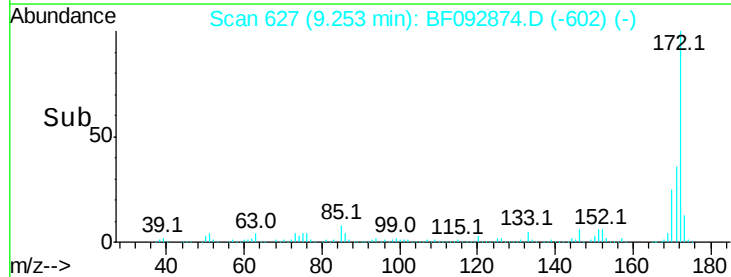
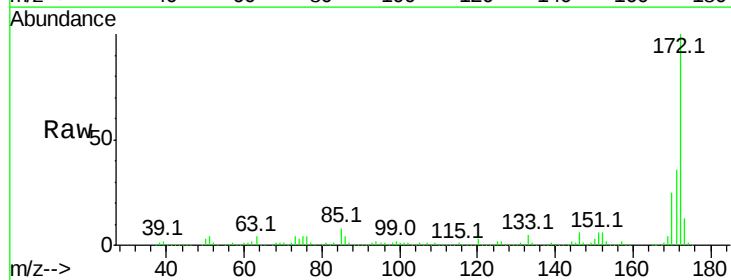
Manual Integrations  
 APPROVED

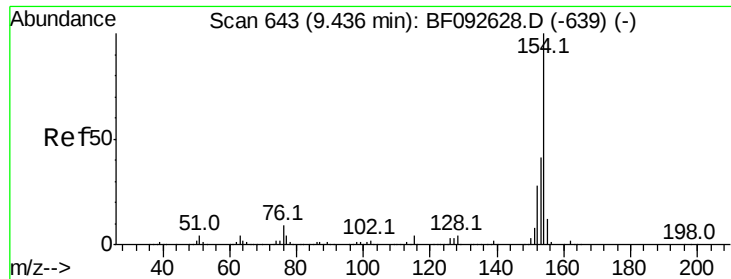
mohammad  
 2/9/2017 12:31:38 PM



#44  
 2-Fluorobiphenyl  
 Concen: 73.85 ng  
 RT: 9.25 min Scan# 627  
 Delta R.T. -0.01 min  
 Lab File: BF092874.D  
 Acq: 9 Feb 2017 00:52

| Tgt Ion   | 172  | Resp | Lower | Upper |
|-----------|------|------|-------|-------|
| Ion Ratio | 100  |      |       |       |
| 171       | 36.3 | 29.4 | 44.0  |       |
| 170       | 24.7 | 20.2 | 30.4  |       |





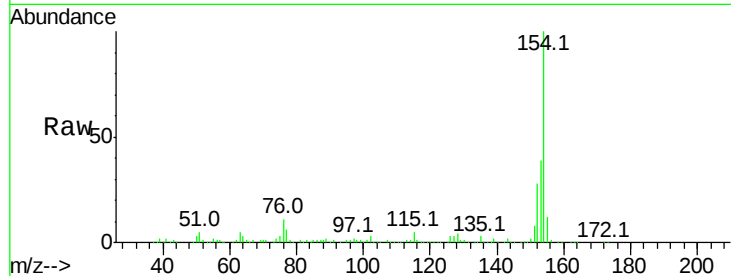
#45  
1,1'-Biphenyl  
Concen: 8.76 ng  
RT: 9.36 min Scan# 636  
Delta R.T. -0.01 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

Instrument :  
BNA\_F  
ClientSampleId :  
E2-B1-B2021-CONCRETE

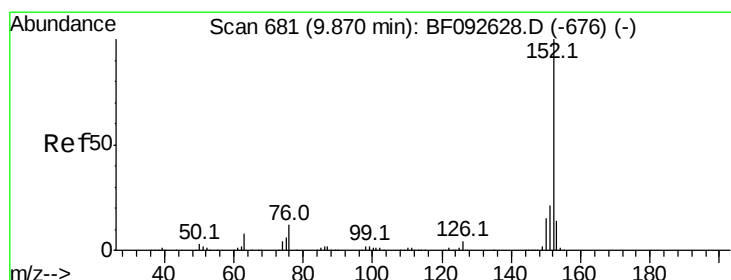
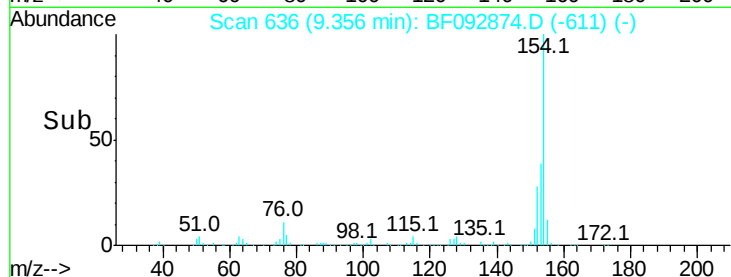
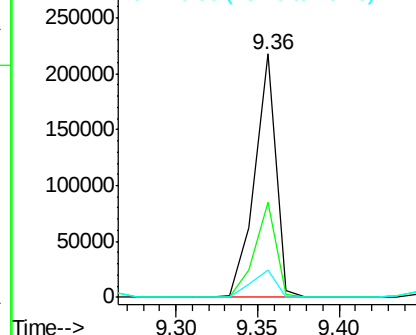
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 196812 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 39.2  | 20.9  | 60.9   |
| 76        | 11.0  | 0.0   | 30.5   |

Manual Integrations  
APPROVED

mohammad  
2/9/2017 12:31:38 PM



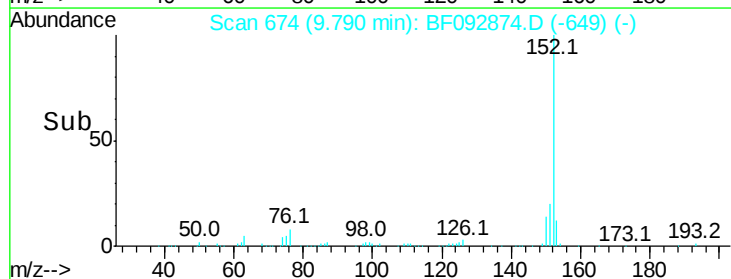
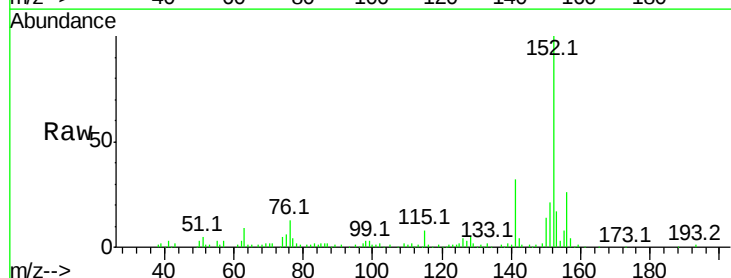
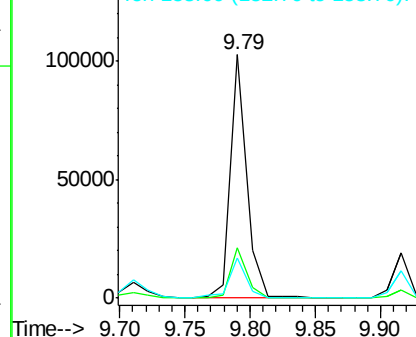
Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BF0

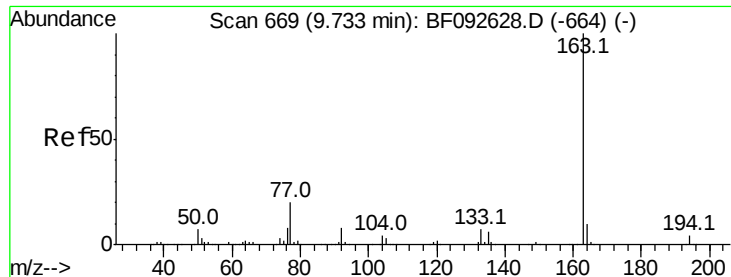


#48  
Acenaphthylene  
Concen: 2.99 ng  
RT: 9.79 min Scan# 674  
Delta R.T. -0.01 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 90835 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.5  | 16.9  | 25.3  |
| 153       | 16.5  | 11.4  | 17.2  |

Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





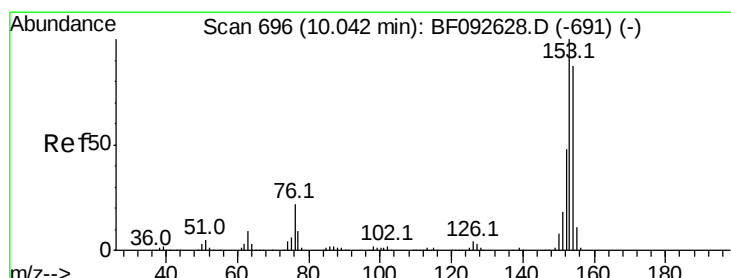
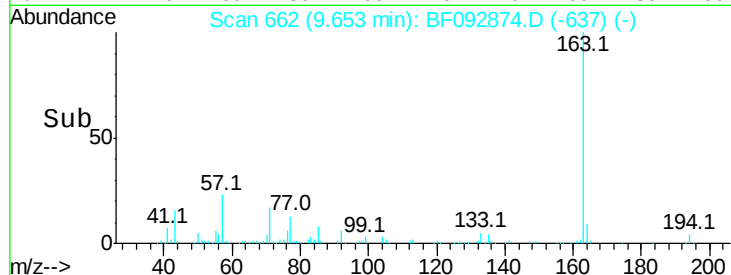
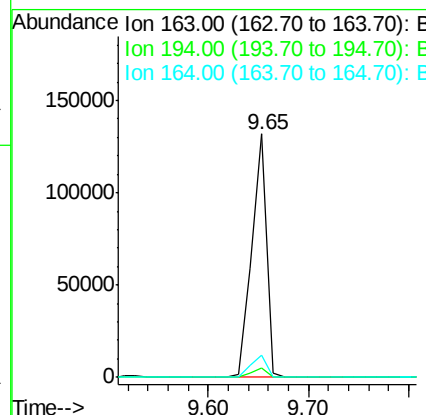
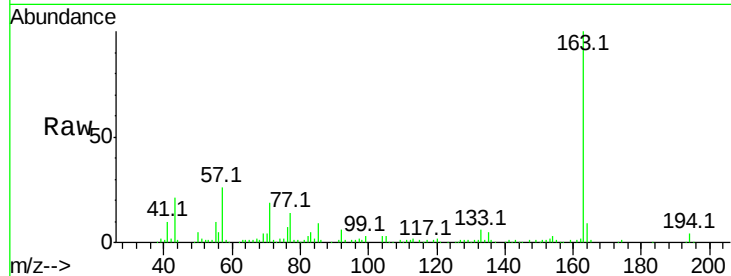
#49  
Dimethylphthalate  
Concen: 6.48 ng  
RT: 9.65 min Scan# 662  
Delta R.T. -0.01 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

Instrument :  
BNA\_F  
ClientSampleId :  
E2-B1-B2021-CONCRETE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 135504 |       |       |
| 194     | 3.8   |        | 3.0   | 4.4   |
| 164     | 9.4   |        | 8.0   | 12.0  |

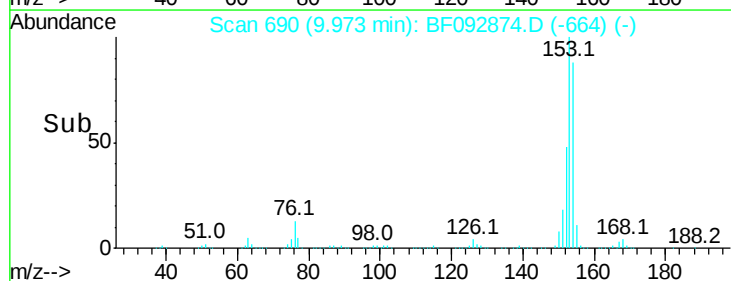
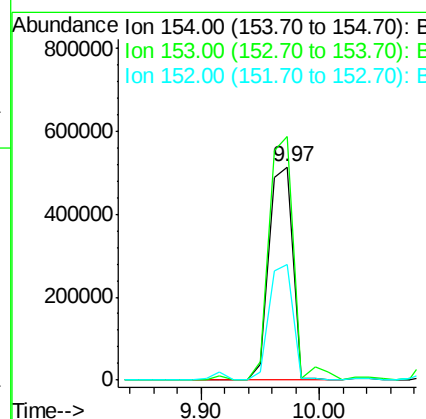
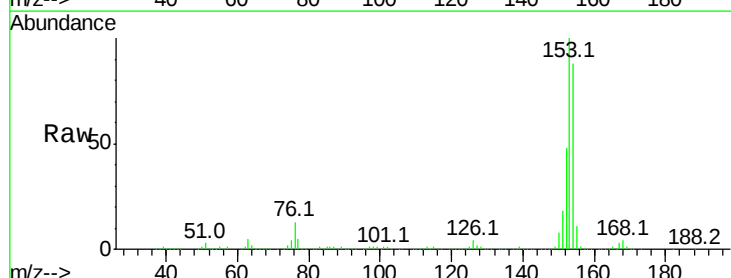
Manual Integrations  
APPROVED

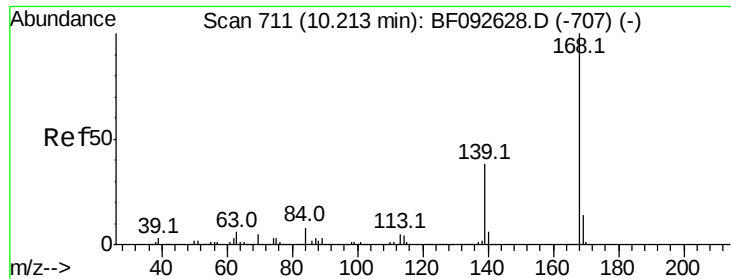
mohammad  
2/9/2017 12:31:38 PM



#51  
Acenaphthene  
Concen: 39.85 ng  
RT: 9.97 min Scan# 690  
Delta R.T. -0.00 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 723697 |       |       |
| 153     | 114.1 |        | 88.6  | 133.0 |
| 152     | 54.2  |        | 41.6  | 62.4  |





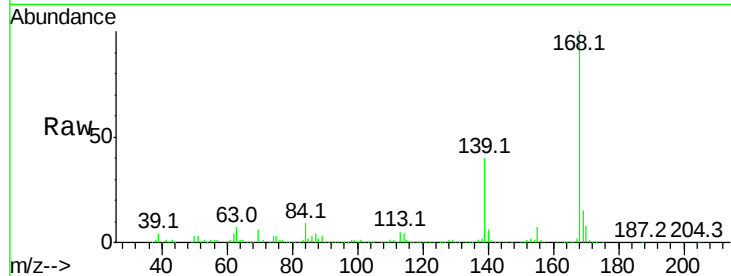
#54  
Dibenzofuran  
Concen: 34.19 ng  
RT: 10.13 min Scan# 704  
Delta R.T. -0.01 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

Instrument :  
BNA\_F  
ClientSampleId :  
E2-B1-B2021-CONCRETE

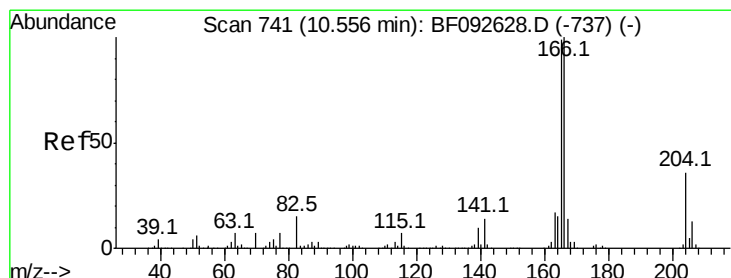
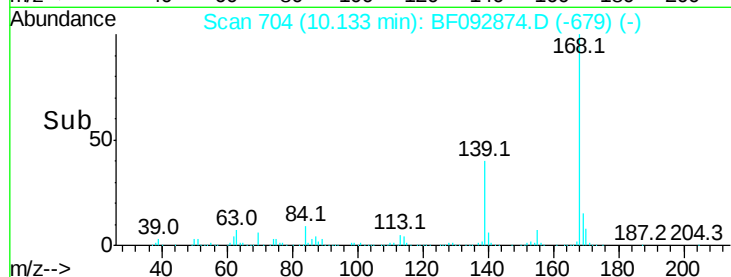
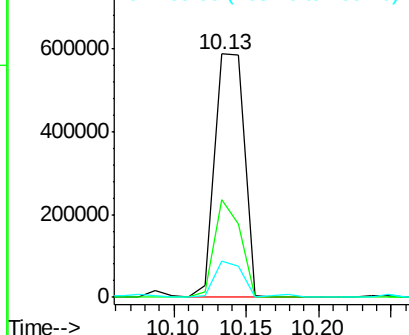
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 39.9  | 32.6  | 49.0  |
| 169     | 15.1  | 11.3  | 16.9  |

Manual Integrations  
APPROVED

mohammad  
2/9/2017 12:31:38 PM

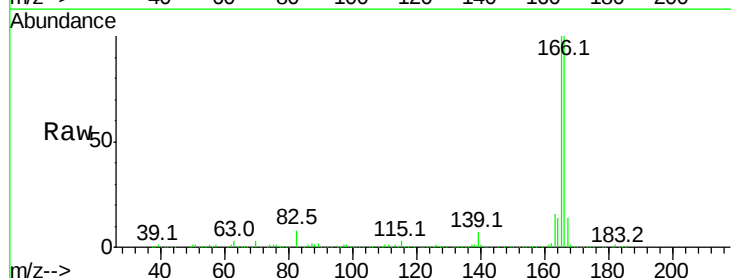


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

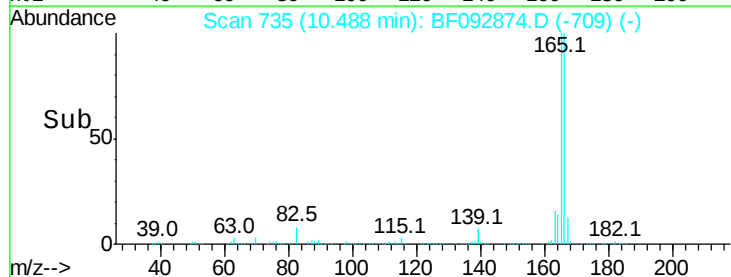
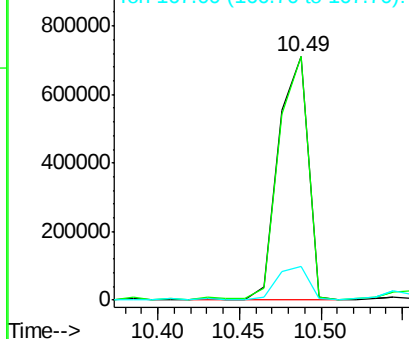


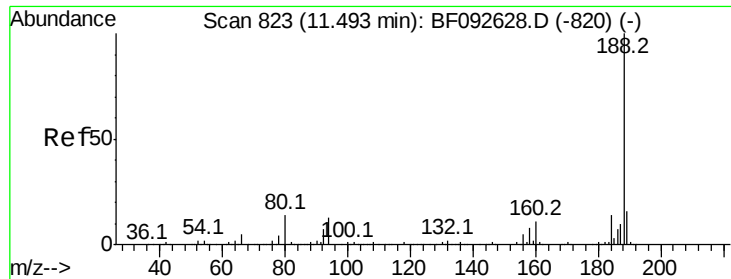
#57  
Fluorene  
Concen: 48.03 ng  
RT: 10.49 min Scan# 735  
Delta R.T. -0.00 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.8  | 77.8  | 116.8 |
| 167     | 13.6  | 10.8  | 16.2  |



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.42 min Scan# 817

Delta R.T. -0.00 min

Lab File: BF092874.D

Acq: 9 Feb 2017 00:52

Instrument :

BNA\_F

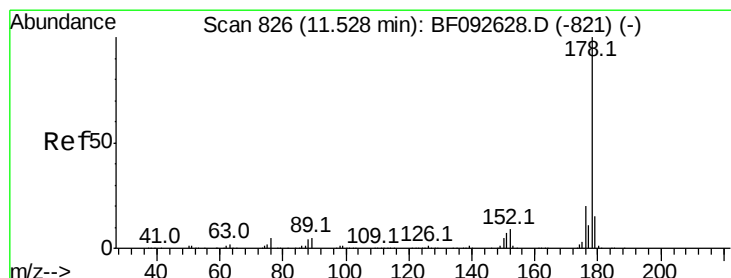
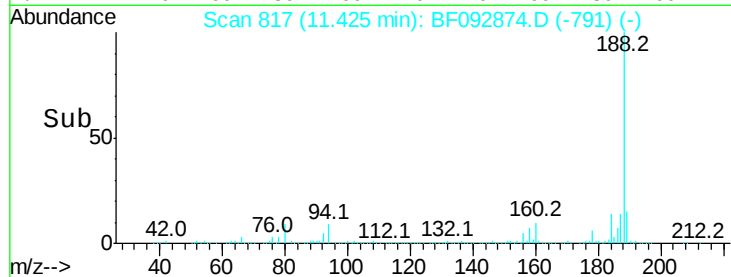
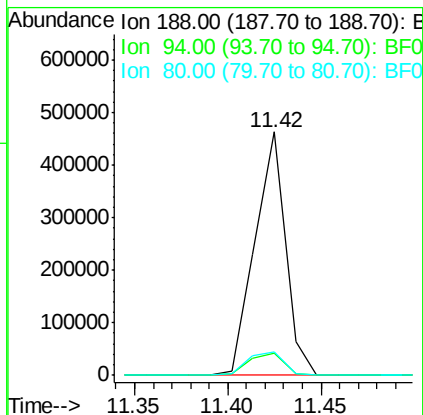
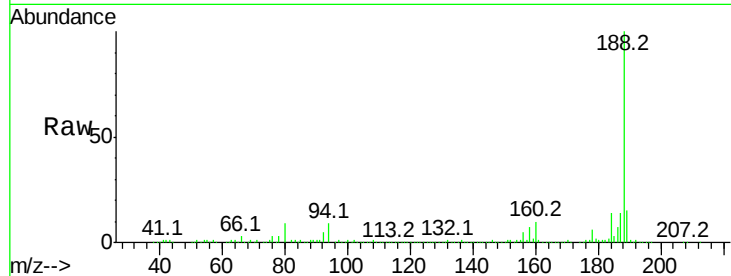
ClientSampleId :

E2-B1-B2021-CONCRETE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 525993 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.1   | 10.0  | 15.0#  |
| 80        | 9.5   | 11.2  | 16.8#  |

Manual Integrations  
APPROVED

mohammad  
2/9/2017 12:31:38 PM



#70

Phenanthrene

Concen: 107.54 ng m

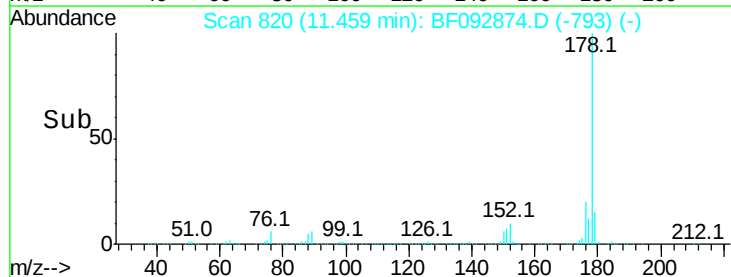
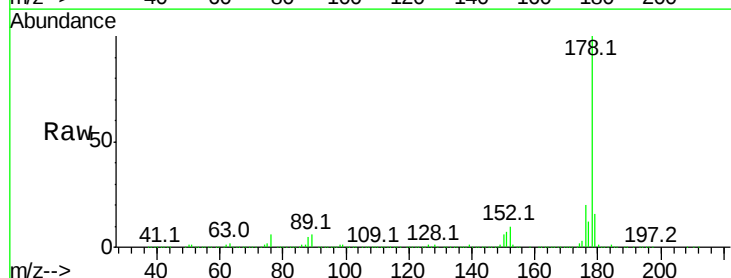
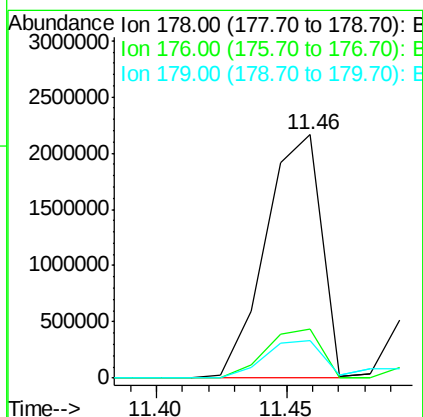
RT: 11.46 min Scan# 820

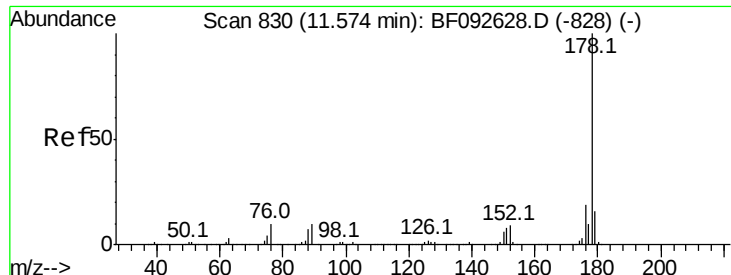
Delta R.T. 0.01 min

Lab File: BF092874.D

Acq: 9 Feb 2017 00:52

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 178   | Resp: | 3240773 |
| Ion Ratio | Lower | Upper |         |
| 178       | 100   |       |         |
| 176       | 20.2  | 16.6  | 25.0    |
| 179       | 15.5  | 12.8  | 19.2    |





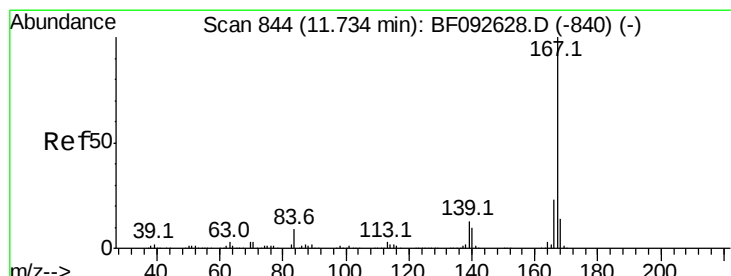
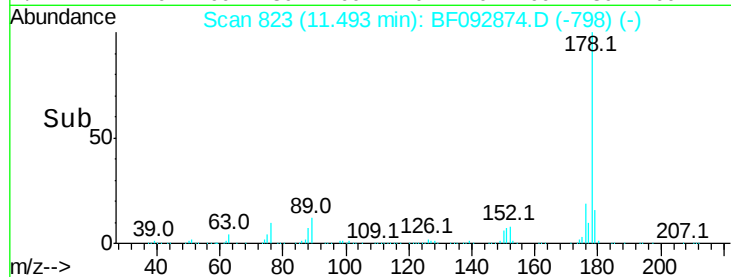
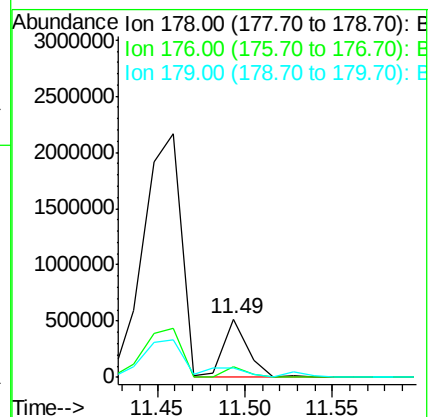
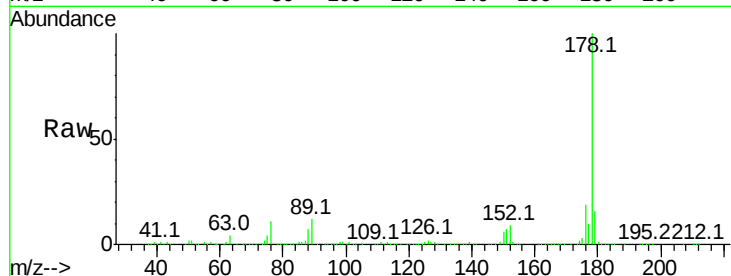
#71  
 Anthracene  
 Concen: 17.01 ng m  
 RT: 11.49 min Scan# 823  
 Delta R.T. -0.01 min  
 Lab File: BF092874.D  
 Acq: 9 Feb 2017 00:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-B1-B2021-CONCRETE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 15.9  | 23.9  |
| 179     | 15.7  | 13.2  | 19.8  |

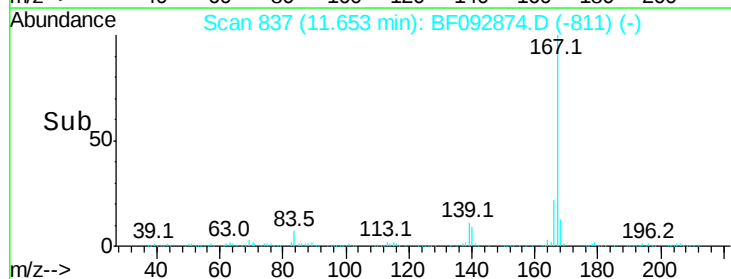
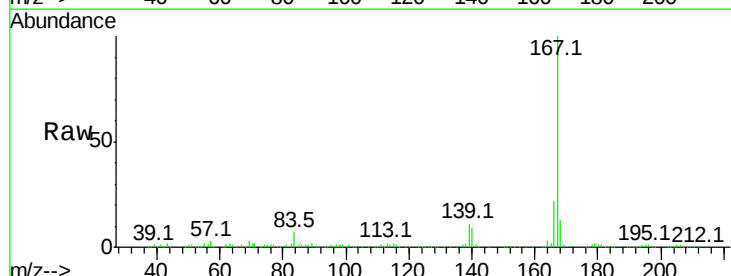
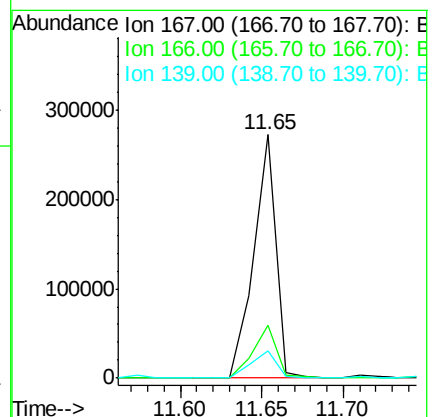
Manual Integrations  
 APPROVED

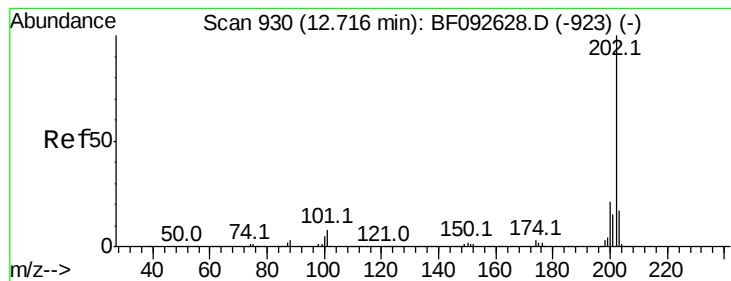
mohammad  
 2/9/2017 12:31:38 PM



#72  
 Carbazole  
 Concen: 8.84 ng  
 RT: 11.65 min Scan# 837  
 Delta R.T. -0.00 min  
 Lab File: BF092874.D  
 Acq: 9 Feb 2017 00:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.8  | 18.2  | 27.2  |
| 139     | 11.2  | 11.4  | 17.2# |





#74

Fluoranthene

Concen: 58.66 ng

RT: 12.64 min Scan# 923

Delta R.T. -0.00 min

Lab File: BF092874.D

Acq: 9 Feb 2017 00:52

Instrument :

BNA\_F

ClientSampleId :

E2-B1-B2021-CONCRETE

Tot Ion:202 Resp: 1823468

Ion Ratio Lower Upper

202 100

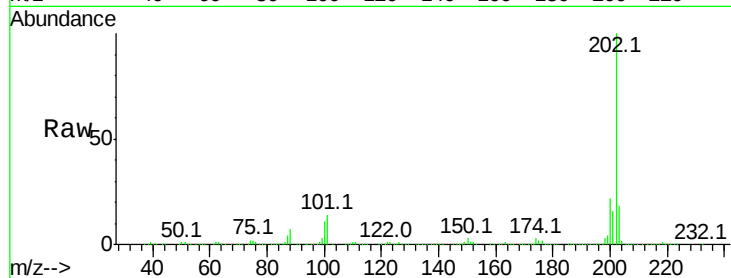
101 14.5 0.0 34.6

203 18.4 0.0 38.7

Manual Integrations  
APPROVED

mohammad

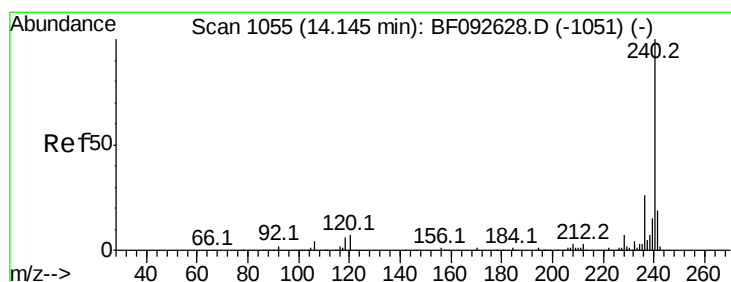
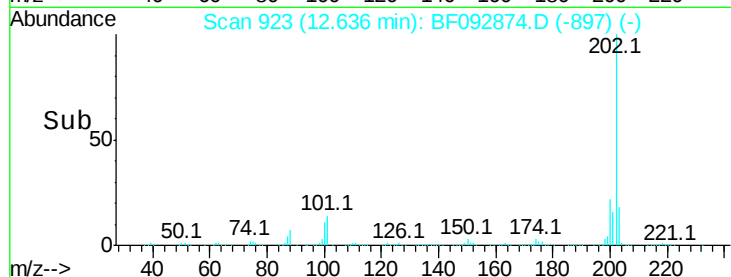
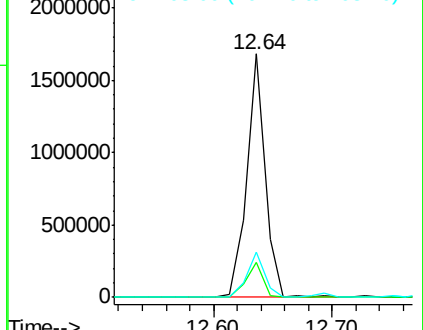
2/9/2017 12:31:38 PM



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: 14.05 min Scan# 1047

Delta R.T. -0.01 min

Lab File: BF092874.D

Acq: 9 Feb 2017 00:52

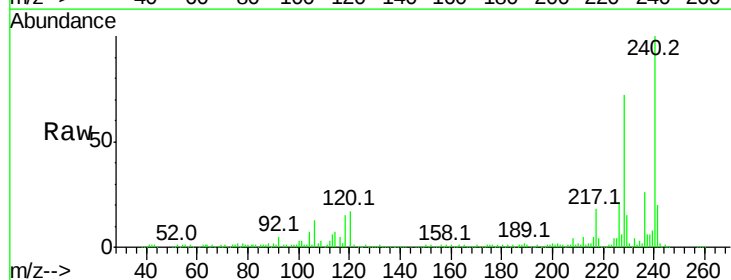
Tgt Ion:240 Resp: 441705

Ion Ratio Lower Upper

240 100

120 17.5 12.9 19.3

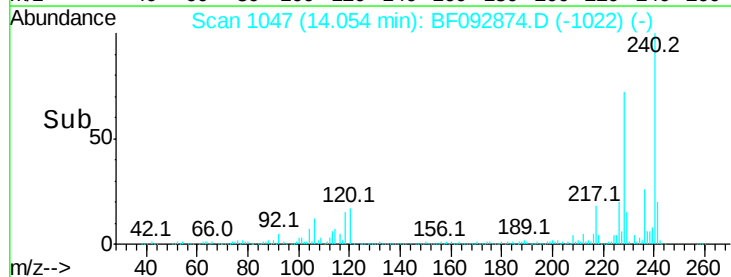
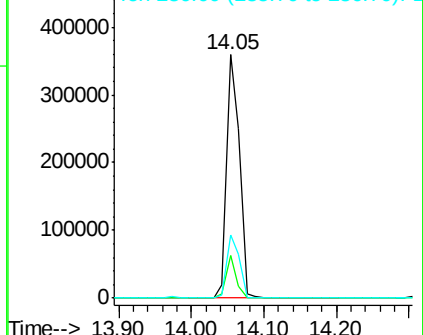
236 25.9 20.9 31.3

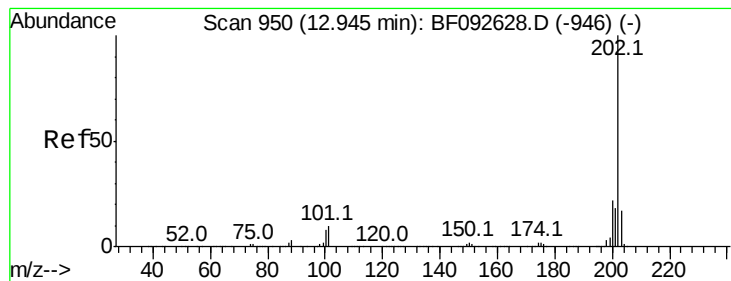


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 44.53 ng

RT: 12.86 min Scan# 943

Delta R.T. -0.00 min

Lab File: BF092874.D

Acq: 9 Feb 2017 00:52

Instrument :

BNA\_F

ClientSampleId :

E2-B1-B2021-CONCRETE

Tot Ion:202 Resp: 1471980

Ion Ratio Lower Upper

202 100

200 22.4 17.7 26.5

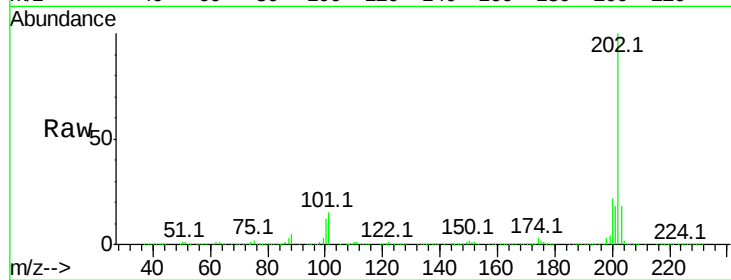
203 18.0 14.7 22.1

Manual Integrations

APPROVED

mohammad

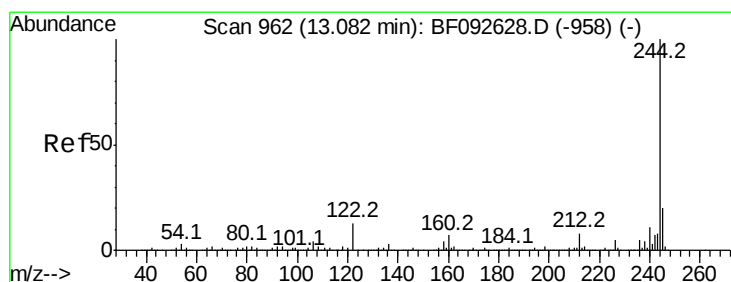
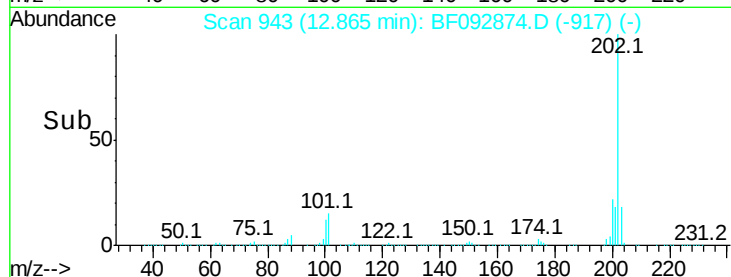
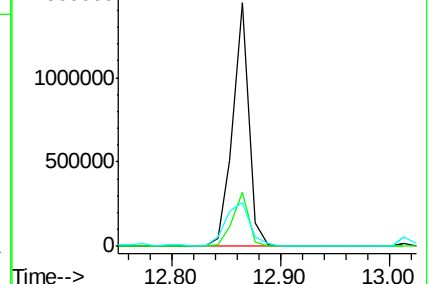
2/9/2017 12:31:38 PM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 72.94 ng

RT: 13.00 min Scan# 955

Delta R.T. -0.01 min

Lab File: BF092874.D

Acq: 9 Feb 2017 00:52

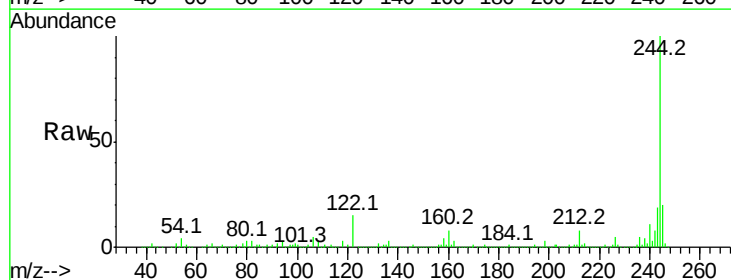
Tgt Ion:244 Resp: 1371202

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

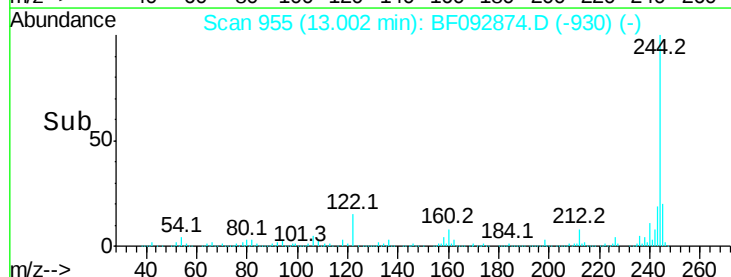
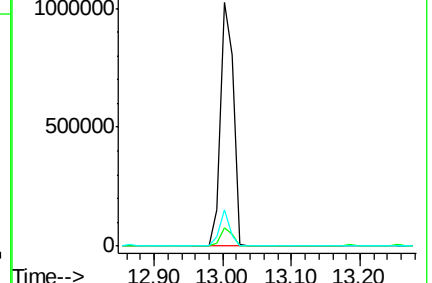
122 14.9 11.4 17.2

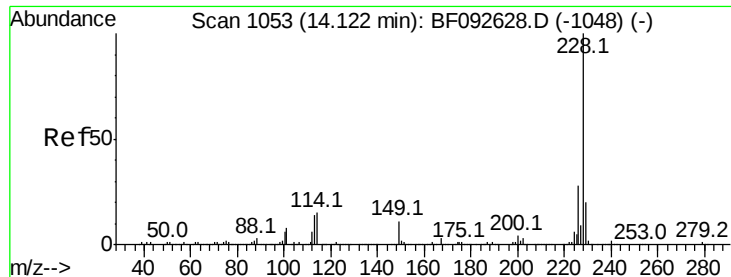


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





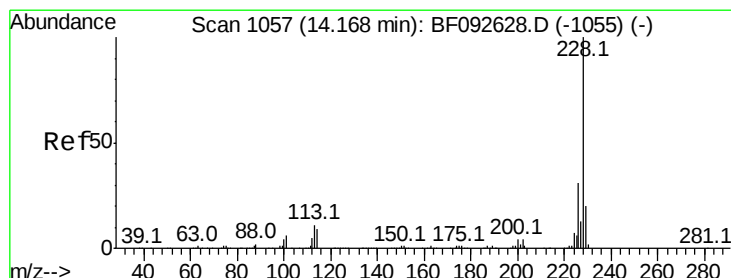
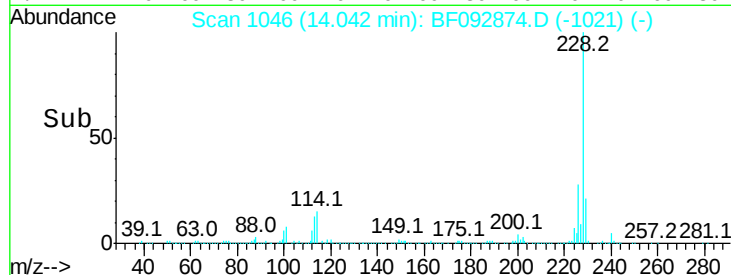
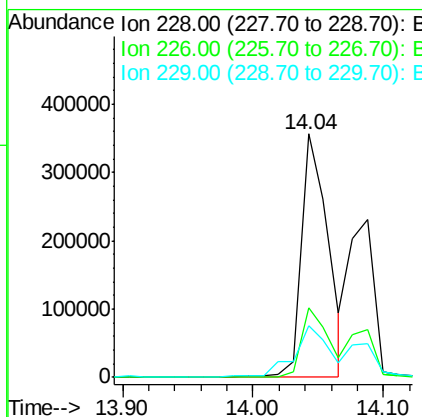
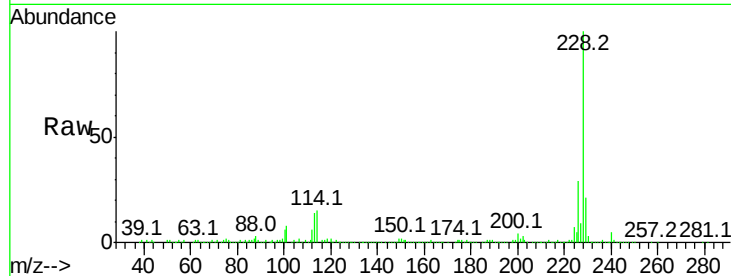
#80  
Benzo(a)anthracene  
Concen: 18.78 ng  
RT: 14.04 min Scan# 1046  
Delta R.T. -0.01 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

Instrument :  
BNA\_F  
ClientSampleId :  
E2-B1-B2021-CONCRETE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.6  | 22.4  | 33.6  |
| 229     | 21.2  | 16.2  | 24.4  |

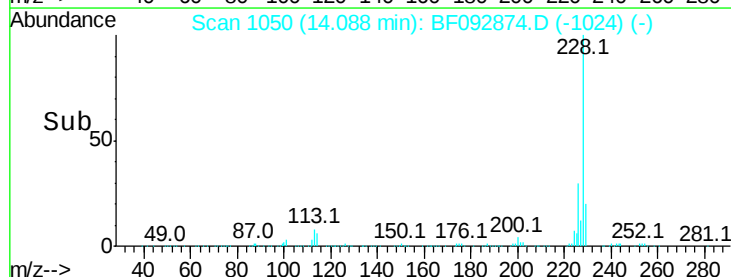
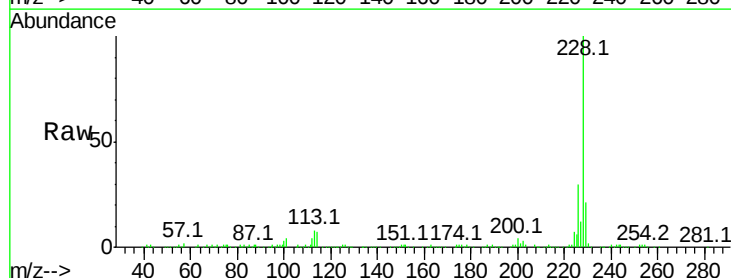
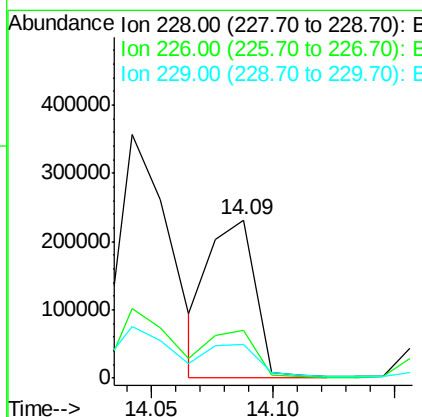
Manual Integrations  
APPROVED

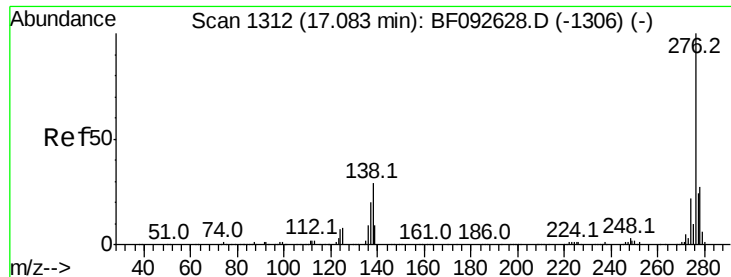
mohammad  
2/9/2017 12:31:38 PM



#82  
Chrysene  
Concen: 12.16 ng m  
RT: 14.09 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.2  | 25.4  | 38.0  |
| 229     | 21.2  | 16.2  | 24.2  |





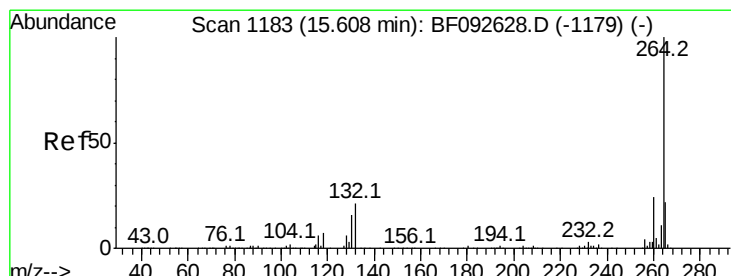
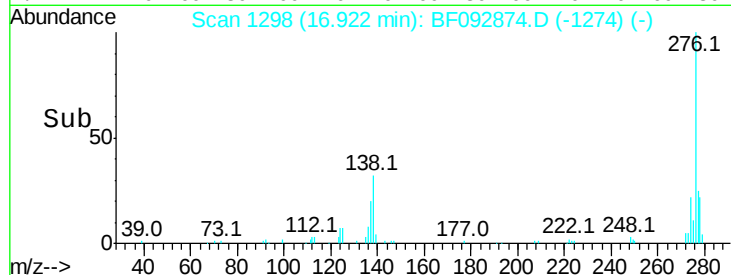
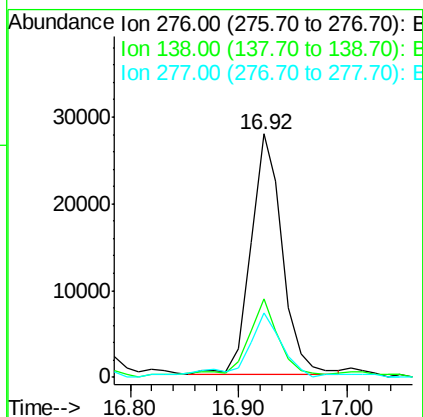
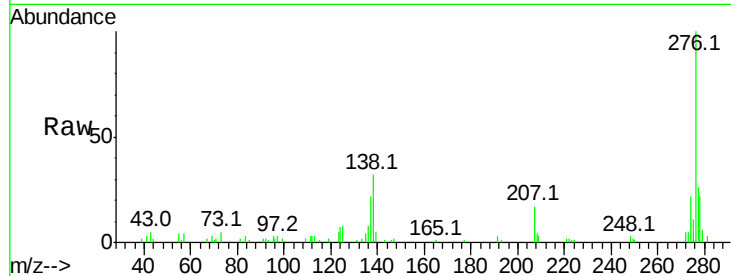
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.81 ng  
 RT: 16.92 min Scan# 1298  
 Delta R.T. -0.02 min  
 Lab File: BF092874.D  
 Acq: 9 Feb 2017 00:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-B1-B2021-CONCRETE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 36.0  | 21.8  | 32.6# |
| 277     | 31.6  | 20.2  | 30.4# |

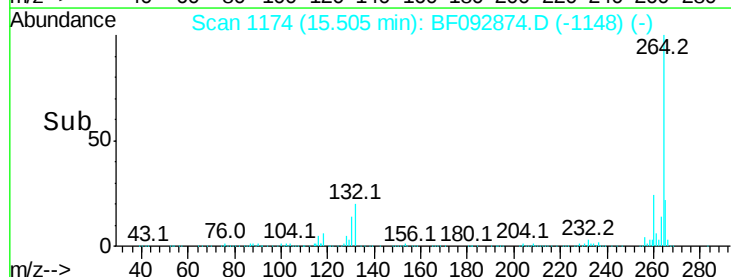
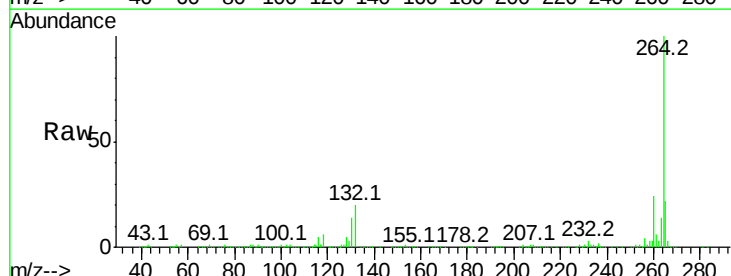
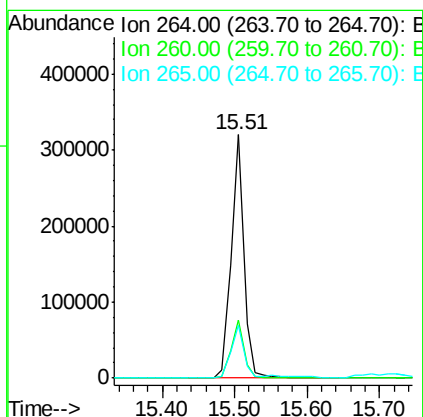
Manual Integrations  
 APPROVED

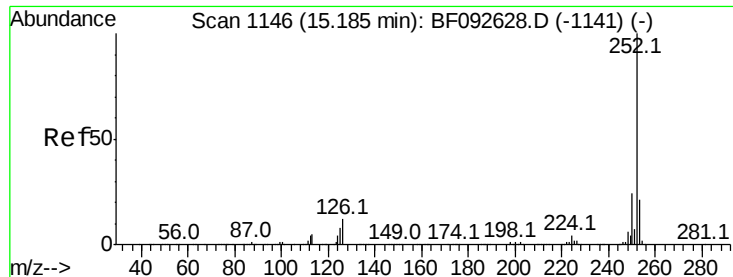
mohammad  
 2/9/2017 12:31:38 PM



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.51 min Scan# 1174  
 Delta R.T. -0.00 min  
 Lab File: BF092874.D  
 Acq: 9 Feb 2017 00:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.2  | 28.8  |
| 265     | 21.8  | 17.4  | 26.0  |





#87

Benzo(b)fluoranthene

Concen: 10.37 ng m

RT: 15.08 min Scan# 1137

Delta R.T. -0.01 min

Lab File: BF092874.D

Acq: 9 Feb 2017 00:52

Instrument :

BNA\_F

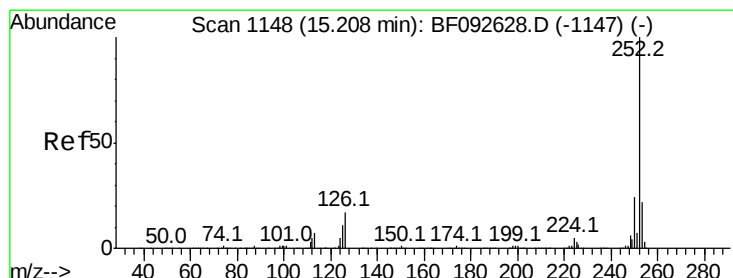
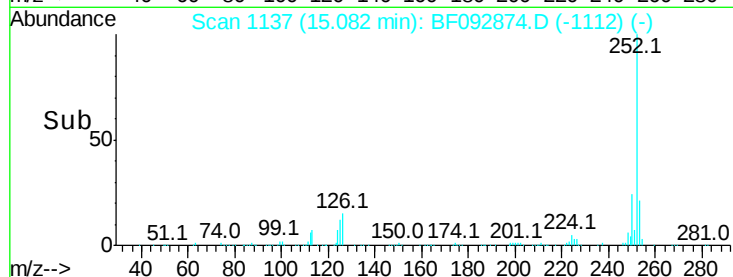
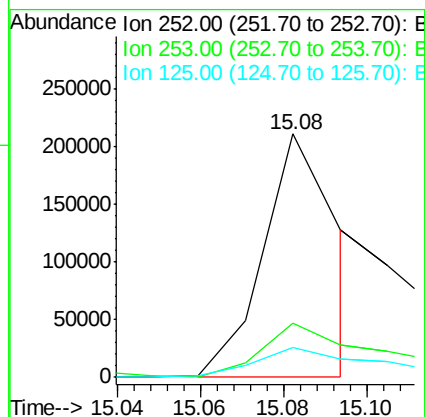
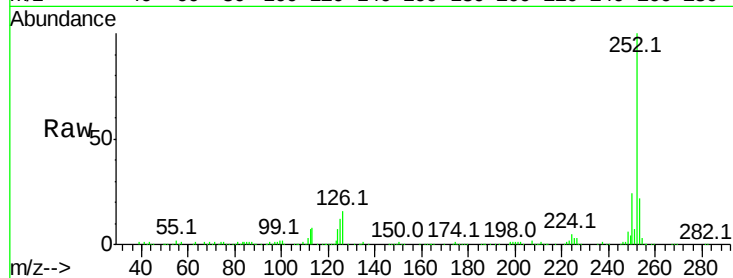
ClientSampleId :

E2-B1-B2021-CONCRETE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 266684 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.1  | 18.2  | 27.4   |
| 125       | 12.5  | 9.8   | 14.6   |

Manual Integrations  
APPROVED

mohammad  
2/9/2017 12:31:38 PM



#88

Benzo(k)fluoranthene

Concen: 5.13 ng m

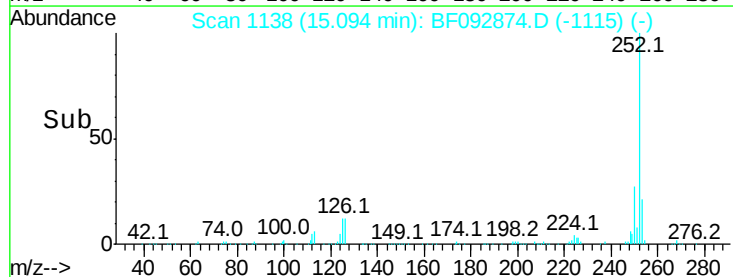
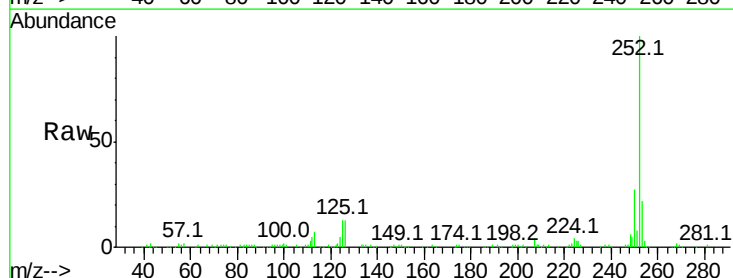
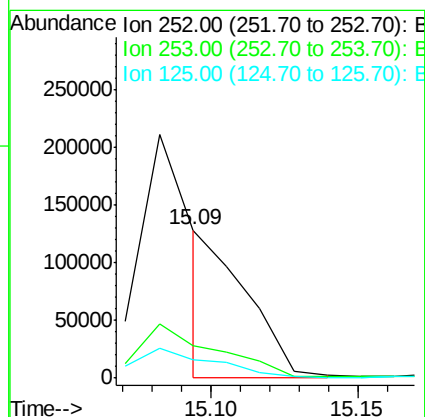
RT: 15.09 min Scan# 1138

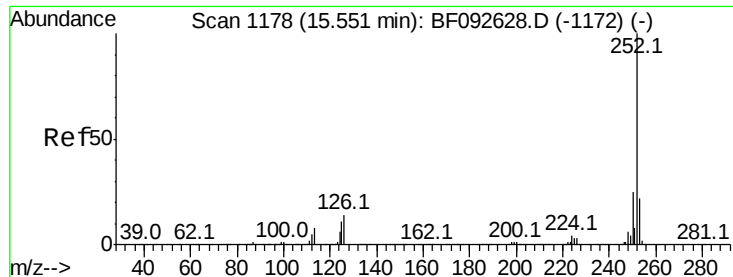
Delta R.T. -0.03 min

Lab File: BF092874.D

Acq: 9 Feb 2017 00:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 113900 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.9  | 18.5  | 27.7   |
| 125       | 12.7  | 8.9   | 13.3   |





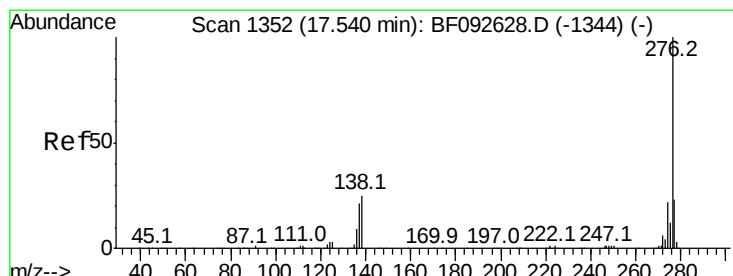
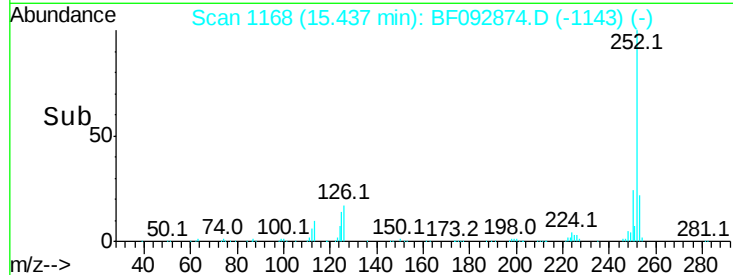
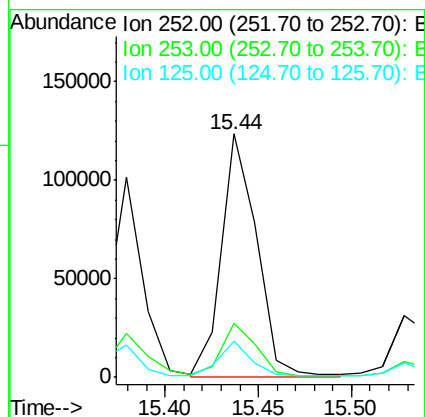
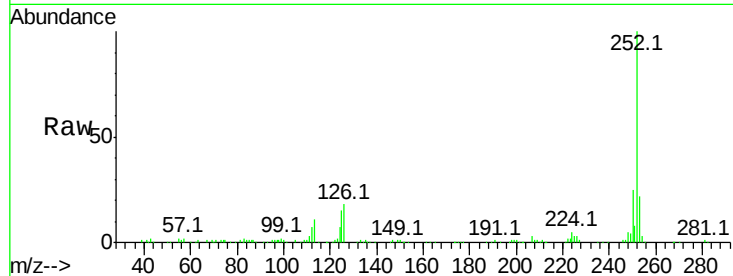
#89  
Benzo(a)pyrene  
Concen: 7.31 ng  
RT: 15.44 min Scan# 1168  
Delta R.T. -0.01 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

Instrument :  
BNA\_F  
ClientSampleId :  
E2-B1-B2021-CONCRETE

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 252  | Resp: | 162680 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 22.2 | 18.2  | 27.2   |
| 125       | 14.8 | 10.0  | 15.0   |

Manual Integrations  
APPROVED

mohammad  
2/9/2017 12:31:38 PM



#91  
Benzo(g,h,i)perylene  
Concen: 2.83 ng  
RT: 17.36 min Scan# 1336  
Delta R.T. -0.02 min  
Lab File: BF092874.D  
Acq: 9 Feb 2017 00:52

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 276  | Resp: | 51491 |
| Ion Ratio |      | Lower | Upper |
| 276       | 100  |       |       |
| 277       | 23.4 | 19.2  | 28.8  |
| 138       | 27.6 | 16.0  | 24.0# |

