

Data Path : S:\HPCHEM1\BNA\_E\DATA\BE050517\  
 Data File : BE092929.D  
 Acq On : 5 May 2017 14:15  
 Operator : SJ/MA  
 Sample : I2872-16  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PT-PAH-SOIL

Manual Integrations  
 APPROVED

mohammad  
 5/8/2017 2:46:55 PM

Quant Time: May 05 15:14:24 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE050517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 05 14:05:07 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.77  | 152  | 755      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.53 | 136  | 3143     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.39 | 164  | 1533     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.13 | 188  | 3754     | 0.40 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.28 | 240  | 4328     | 0.40 | ng    | 0.00     |
| 33) Perylene-d12          | 23.69 | 264  | 3814     | 0.40 | ng    | 0.00     |

|                             |       |     |      |      |    |      |
|-----------------------------|-------|-----|------|------|----|------|
| System Monitoring Compounds |       |     |      |      |    |      |
| 4) 2-Fluorophenol           | 5.36  | 112 | 484  | 0.29 | ng | 0.00 |
| 5) Phenol-d6                | 6.94  | 99  | 685  | 0.29 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.90  | 82  | 520  | 0.25 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.13 | 152 | 1473 | 0.32 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.87 | 330 | 53   | 0.22 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.01 | 172 | 1848 | 0.26 | ng | 0.00 |
| 24) Fluoranthene-d10        | 19.15 | 212 | 3035 | 0.35 | ng | 0.00 |
| 28) Terphenyl-d14           | 19.74 | 244 | 2068 | 0.27 | ng | 0.00 |

|                                |       |     |        |       |    |        |
|--------------------------------|-------|-----|--------|-------|----|--------|
| Target Compounds               |       |     |        |       |    | Qvalue |
| 9) Naphthalene                 | 10.58 | 128 | 87035  | 10.36 | ng | # 83   |
| 12) 2-Methylnaphthalene        | 12.19 | 142 | 27995  | 5.45  | ng | 94     |
| 16) Acenaphthylene             | 14.10 | 152 | 267222 | 11.03 | ng | 99     |
| 17) Acenaphthene               | 14.45 | 154 | 14975  | 3.09  | ng | 95     |
| 18) Fluorene                   | 15.43 | 166 | 25713  | 4.30  | ng | 98     |
| 22) Phenanthrene               | 17.18 | 178 | 96900  | 9.17  | ng | 97     |
| 23) Anthracene                 | 17.27 | 178 | 159582 | 19.83 | ng | 99     |
| 25) Fluoranthene               | 19.17 | 202 | 368741 | 8.08  | ng | # 99   |
| 27) Pyrene                     | 19.53 | 202 | 381872 | 6.84  | ng | # 99   |
| 29) Benzo(a)anthracene         | 21.27 | 228 | 37917m | 3.73  | ng |        |
| 30) Chrysene                   | 21.32 | 228 | 93133m | 7.21  | ng |        |
| 31) Bis(2-ethylhexyl)phthalate | 21.20 | 149 | 3701m  | 1.33  | ng |        |
| 32) Indeno(1,2,3-cd)pyrene     | 26.22 | 276 | 497026 | 10.66 | ng | 99     |
| 34) Benzo(b)fluoranthene       | 22.95 | 252 | 40469  | 3.24  | ng | # 79   |
| 35) Benzo(k)fluoranthene       | 22.99 | 252 | 84190  | 6.75  | ng | # 77   |
| 36) Benzo(a)pyrene             | 23.58 | 252 | 18810  | 1.84  | ng | # 71   |
| 37) Dibenzo(a,h)anthracene     | 26.25 | 278 | 108928 | 9.48  | ng | # 72   |
| 38) Benzo(g,h,i)perylene       | 27.00 | 276 | 321167 | 6.59  | ng | # 76   |

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

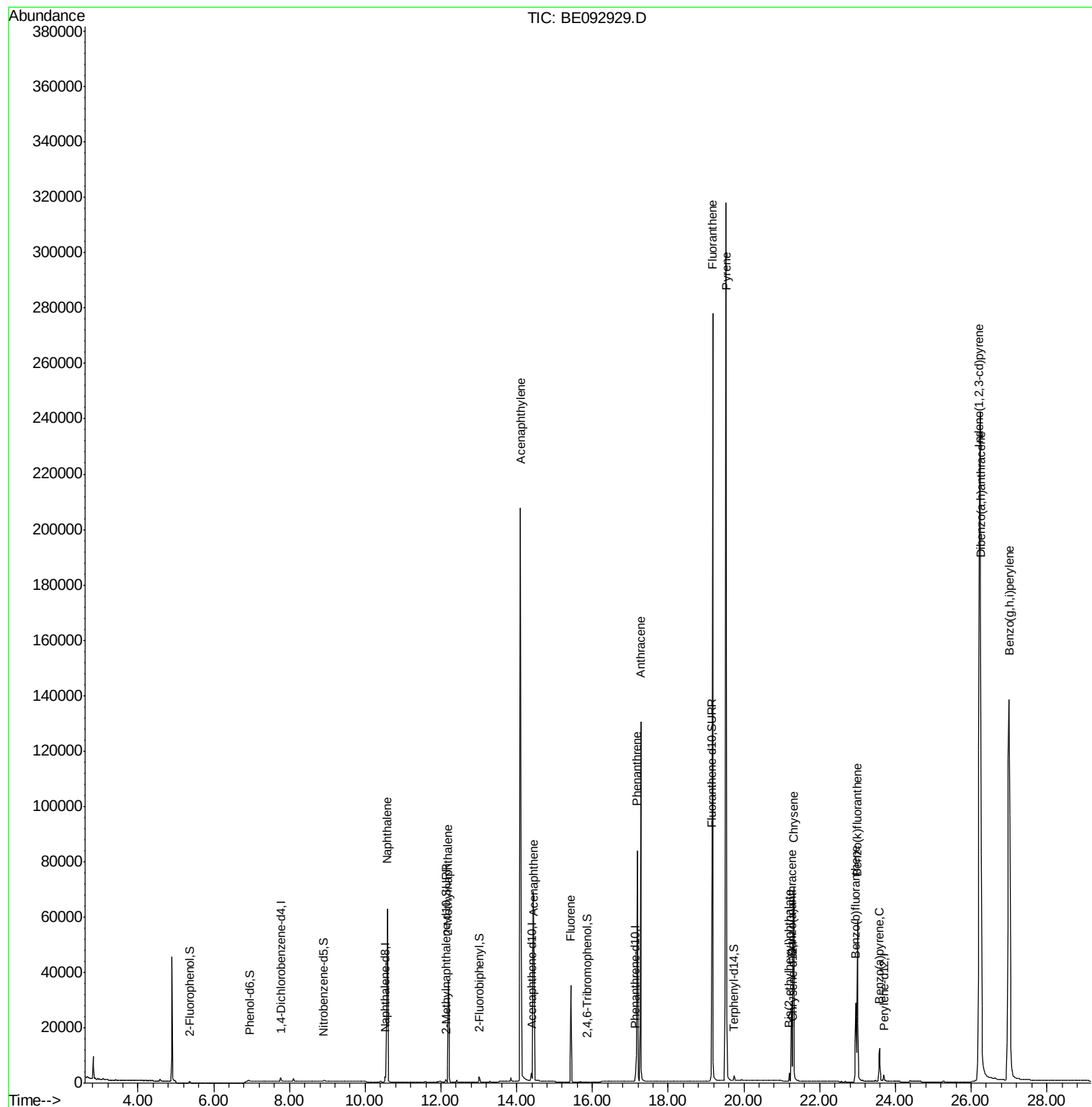
Data Path : S:\HPCHEM1\BNA\_E\DATA\BE050517\  
Data File : BE092929.D  
Acq On : 5 May 2017 14:15  
Operator : SJ/MA  
Sample : I2872-16  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

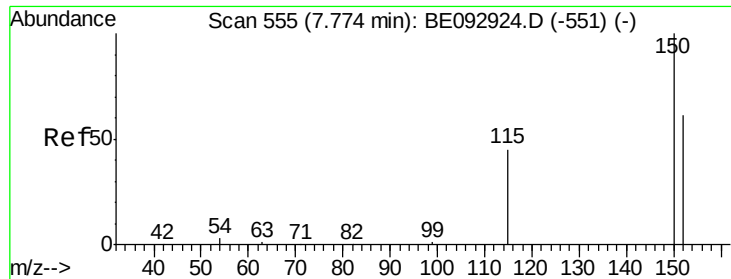
Instrument :  
BNA\_E  
ClientSampleId :  
PT-PAH-SOIL

Manual Integrations  
APPROVED

mohammad  
5/8/2017 2:46:55 PM

Quant Time: May 05 15:14:24 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE050517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 05 14:05:07 2017  
Response via : Initial Calibration

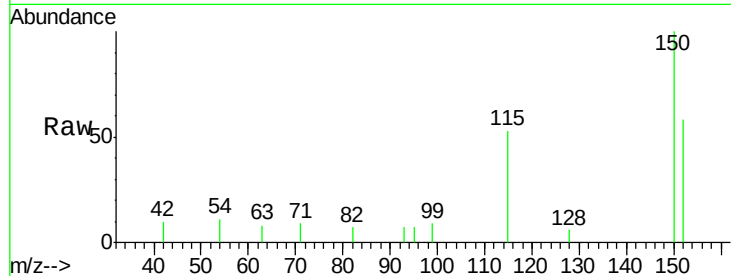




#1

1,4-Dichlorobenzene-d4  
Concen: 0.40 ng  
RT: 7.77 min Scan# 555  
Delta R.T. -0.00 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15

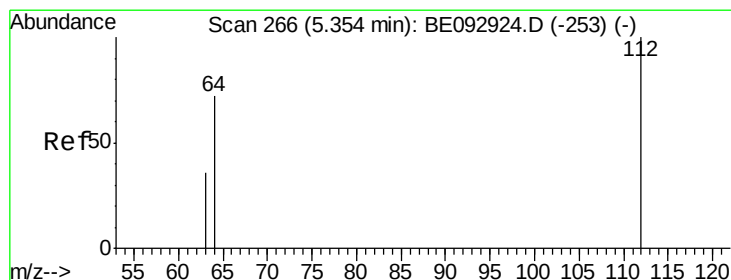
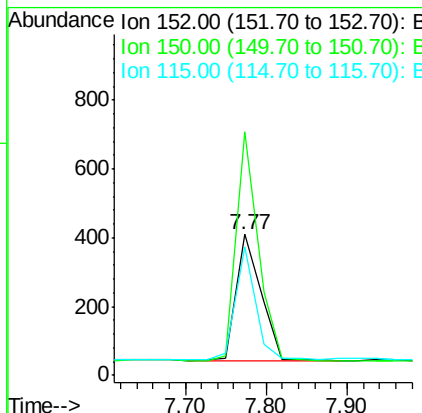
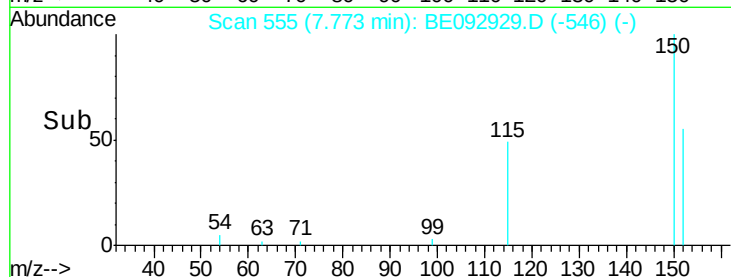
Instrument :  
BNA\_E  
ClientSampleId :  
PT-PAH-SOIL



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 172.7 | 129.9 | 194.9 |
| 115     | 90.7  | 62.6  | 93.8  |

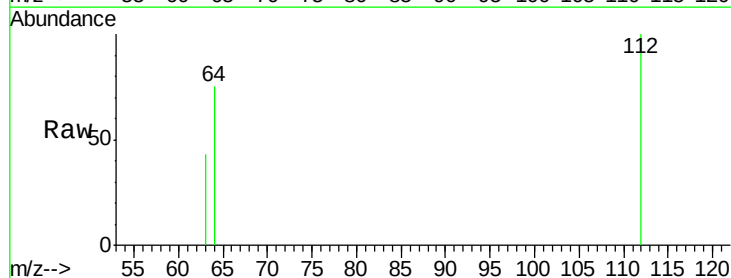
Manual Integrations  
APPROVED

mohammad  
5/8/2017 2:46:55 PM

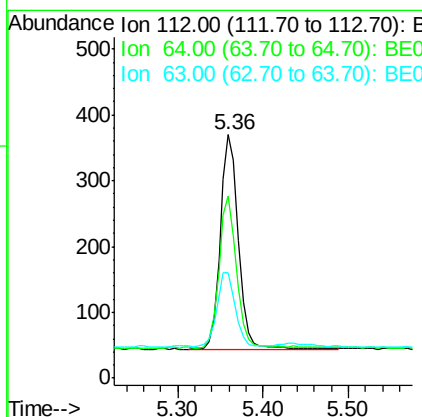
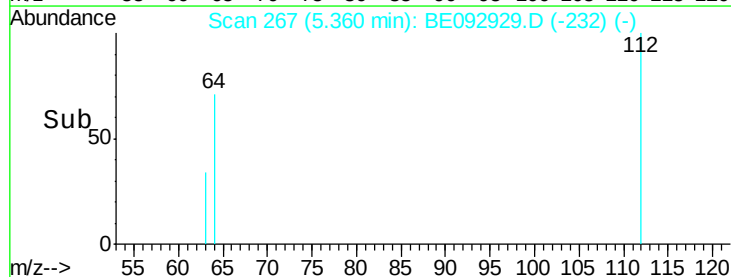


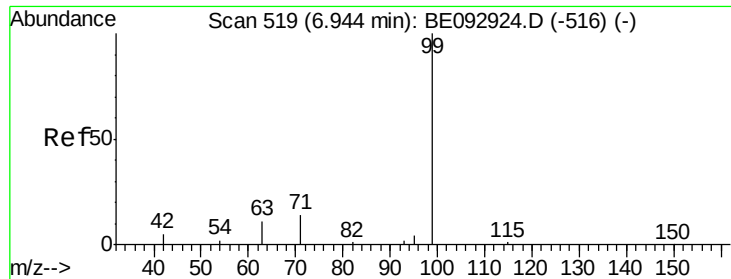
#4

2-Fluorophenol  
Concen: 0.29 ng  
RT: 5.36 min Scan# 267  
Delta R.T. 0.01 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.0  | 52.6  | 79.0  |
| 63      | 35.5  | 29.0  | 43.4  |





#5

Phenol-d6

Concen: 0.29 ng

RT: 6.94 min Scan# 519

Delta R.T. -0.00 min

Lab File: BE092929.D

Acq: 5 May 2017 14:15

Instrument :

BNA\_E

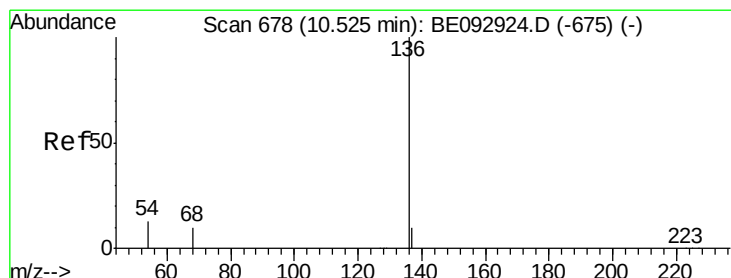
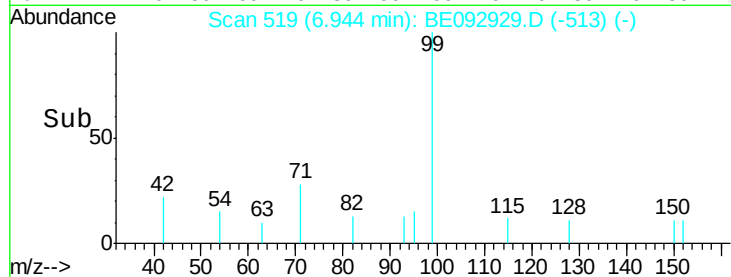
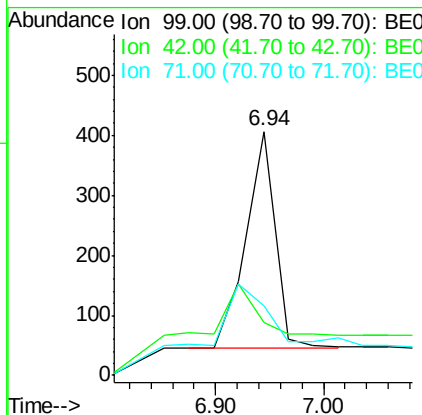
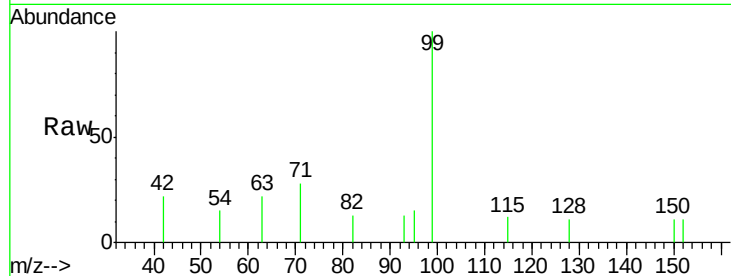
ClientSampled :

PT-PAH-SOIL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 685   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 0.0   | 0.0   | 0.0   |
| 71       | 0.0   | 0.0   | 0.0   |

Manual Integrations  
APPROVED

mohammad  
5/8/2017 2:46:55 PM



#7

Naphthalene-d8

Concen: 0.40 ng

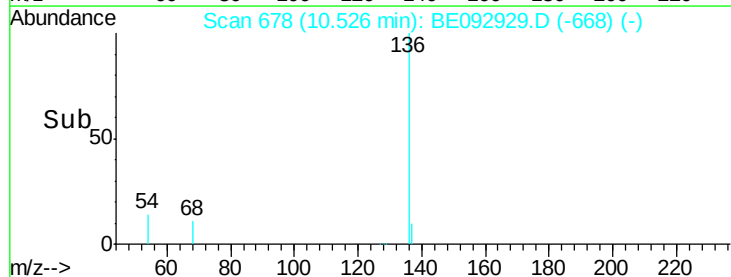
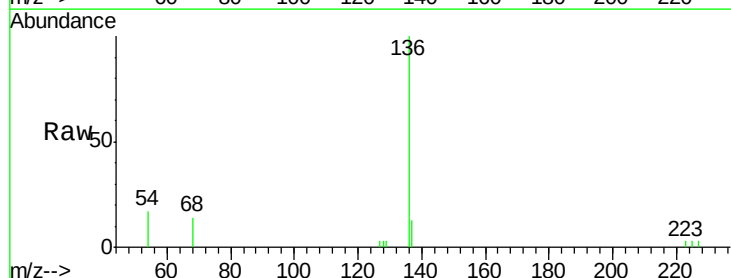
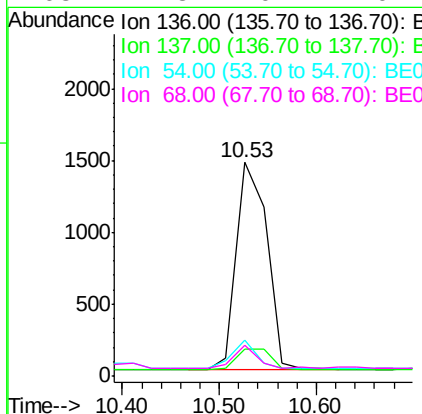
RT: 10.53 min Scan# 678

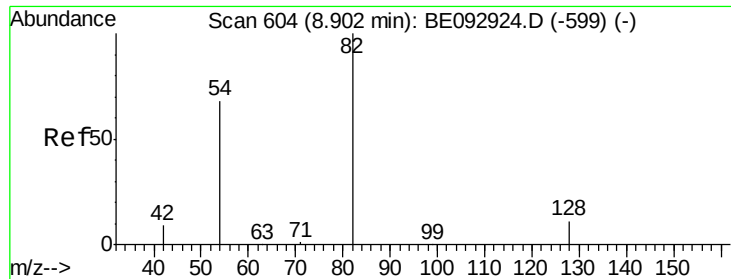
Delta R.T. 0.00 min

Lab File: BE092929.D

Acq: 5 May 2017 14:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 3143  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.5  | 10.4  | 15.6  |
| 54       | 16.7  | 12.6  | 18.8  |
| 68       | 14.3  | 10.7  | 16.1  |





#8

Nitrobenzene-d5

Concen: 0.25 ng

RT: 8.90 min Scan# 604

Delta R.T. -0.00 min

Lab File: BE092929.D

Acq: 5 May 2017 14:15

Instrument :

BNA\_E

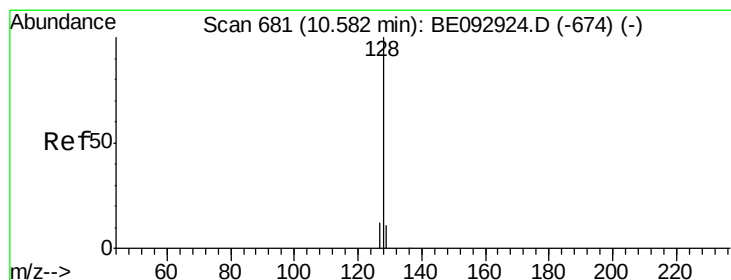
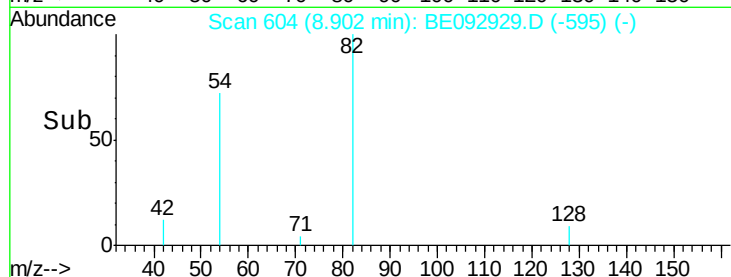
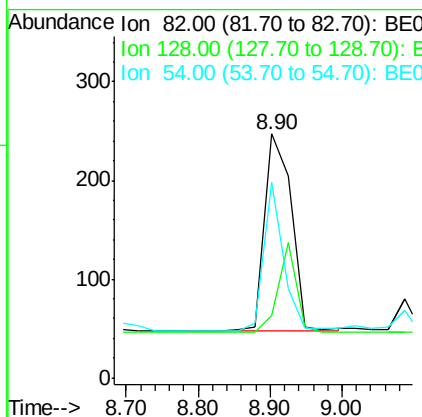
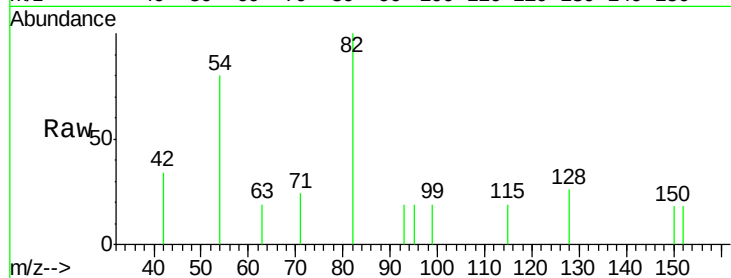
ClientSampleId :

PT-PAH-SOIL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 520   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 25.5  | 35.3  | 52.9# |
| 54       | 80.2  | 65.1  | 97.7  |

Manual Integrations  
APPROVED

mohammad  
5/8/2017 2:46:55 PM



#9

Naphthalene

Concen: 10.36 ng

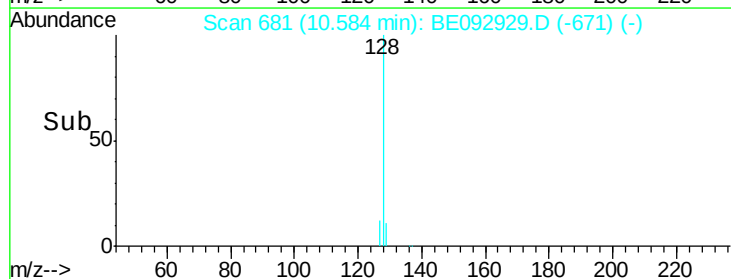
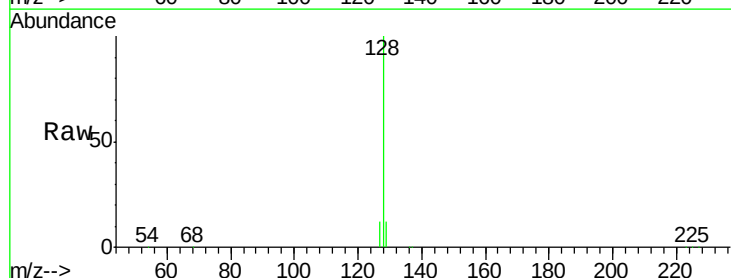
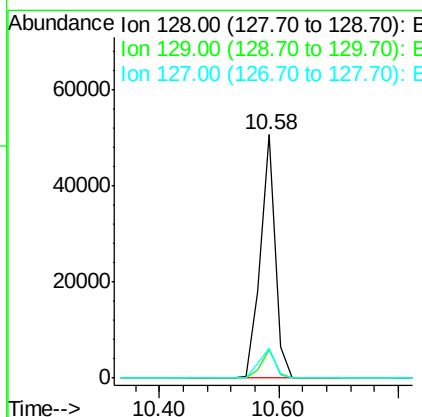
RT: 10.58 min Scan# 681

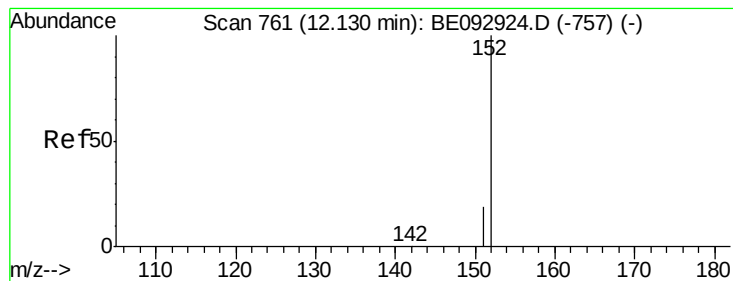
Delta R.T. 0.00 min

Lab File: BE092929.D

Acq: 5 May 2017 14:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 87035 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.5  | 15.8  | 23.8# |
| 127      | 12.2  | 16.0  | 24.0# |





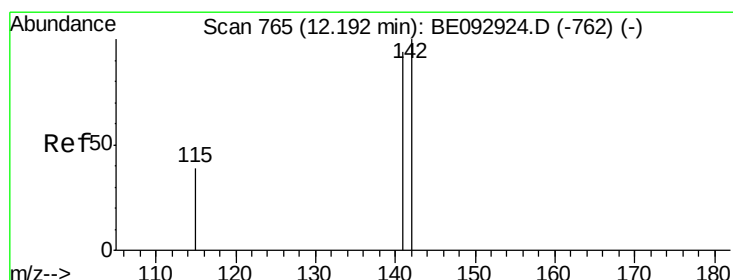
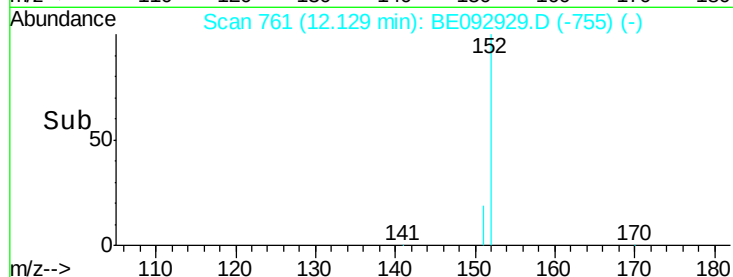
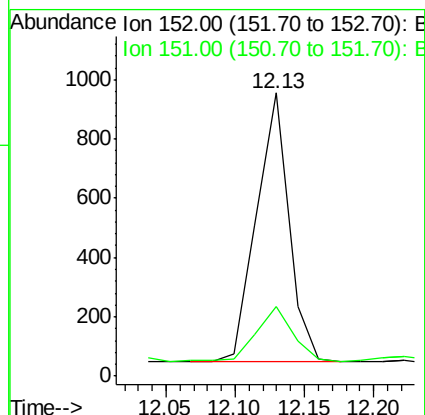
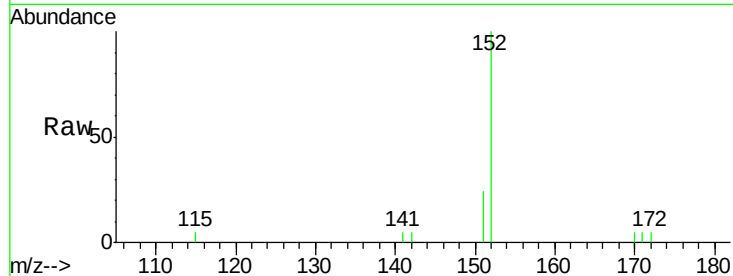
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.32 ng  
 RT: 12.13 min Scan# 761  
 Delta R.T. -0.00 min  
 Lab File: BE092929.D  
 Acq: 5 May 2017 14:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PT-PAH-SOIL

Tgt Ion:152 Resp: 1473  
 Ion Ratio Lower Upper  
 152 100  
 151 21.7 15.7 23.5

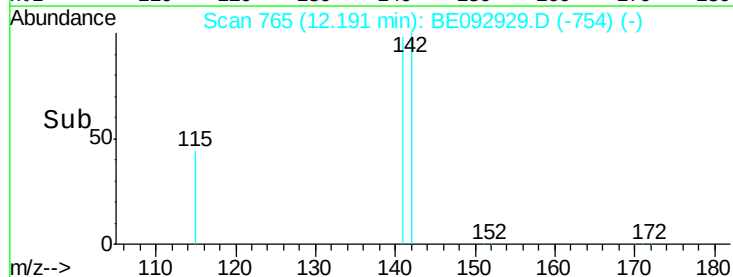
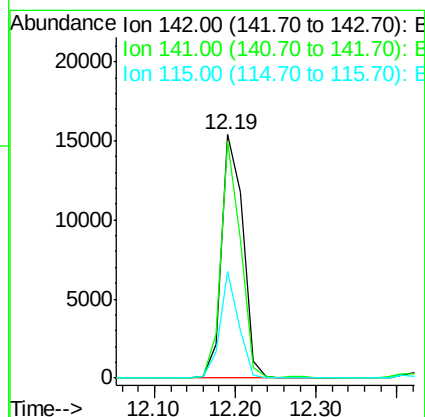
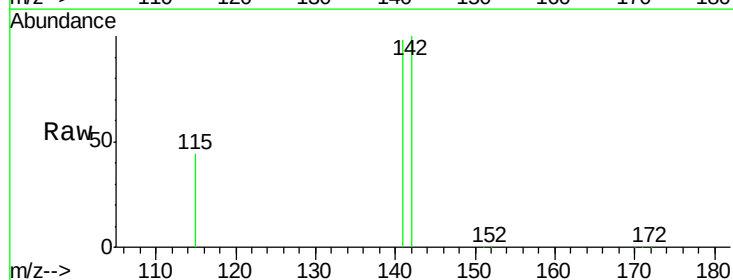
Manual Integrations  
 APPROVED

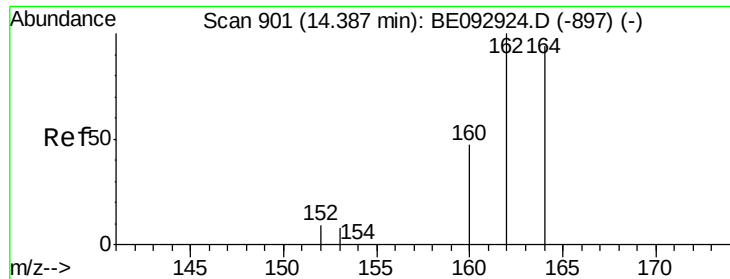
mohammad  
 5/8/2017 2:46:55 PM



#12  
 2-Methylnaphthalene  
 Concen: 5.45 ng  
 RT: 12.19 min Scan# 765  
 Delta R.T. -0.00 min  
 Lab File: BE092929.D  
 Acq: 5 May 2017 14:15

Tgt Ion:142 Resp: 27995  
 Ion Ratio Lower Upper  
 142 100  
 141 97.6 76.0 114.0  
 115 43.6 41.6 62.4





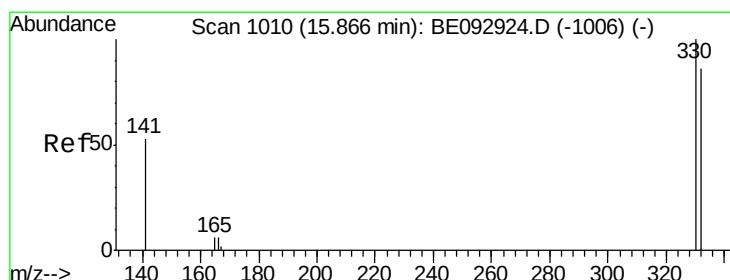
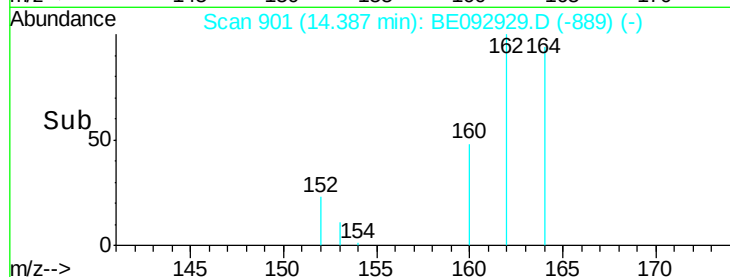
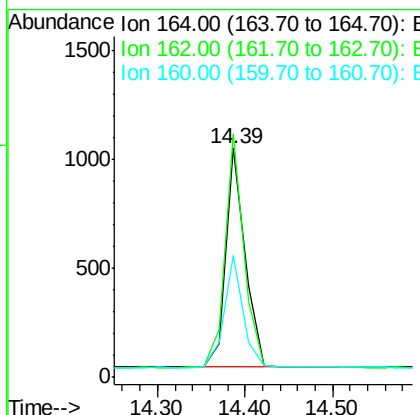
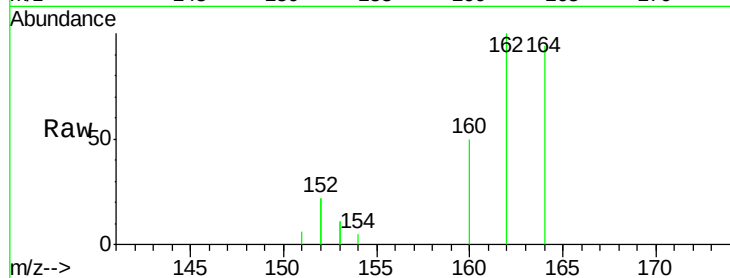
#13  
Acenaphthene-d10  
Concen: 0.40 ng  
RT: 14.39 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15

Instrument :  
BNA\_E  
ClientSampled :  
PT-PAH-SOIL

Tgt Ion:164 Resp: 1533  
Ion Ratio Lower Upper  
164 100  
162 106.3 86.6 130.0  
160 53.1 44.5 66.7

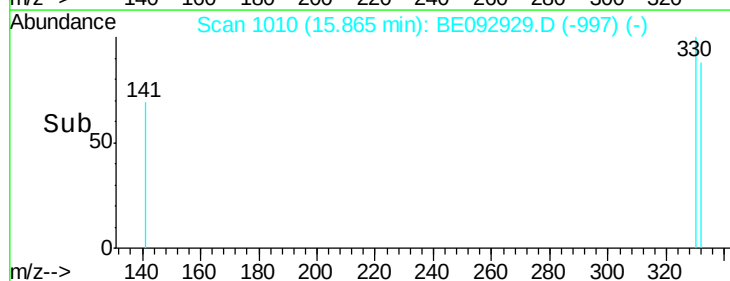
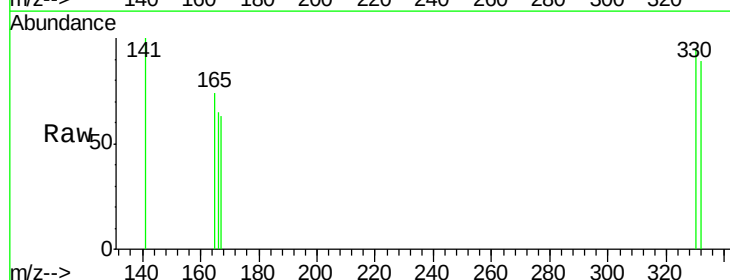
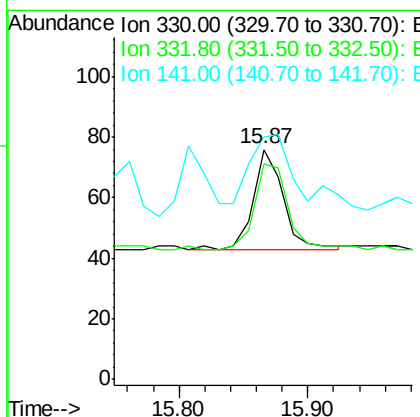
Manual Integrations  
APPROVED

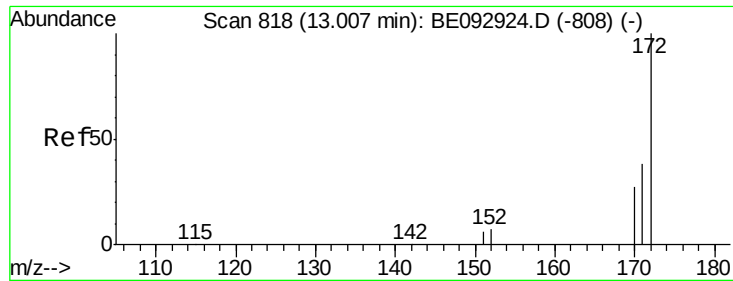
mohammad  
5/8/2017 2:46:55 PM



#14  
2,4,6-Tribromophenol  
Concen: 0.22 ng  
RT: 15.87 min Scan# 1010  
Delta R.T. -0.00 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15

Tgt Ion:330 Resp: 53  
Ion Ratio Lower Upper  
330 100  
332 98.1 69.1 103.7  
141 126.4 54.6 81.8#





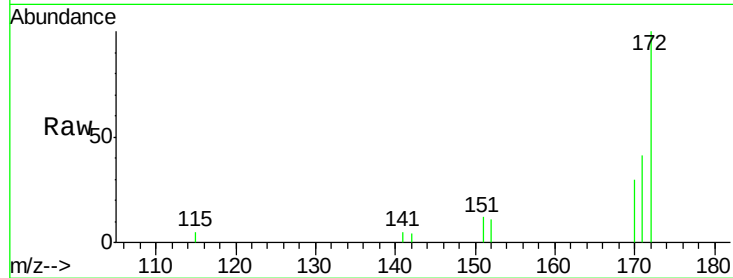
#15  
2-Fluorobiphenyl  
Concen: 0.26 ng  
RT: 13.01 min Scan# 818  
Delta R.T. -0.00 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15

Instrument :  
BNA\_E  
ClientSampleId :  
PT-PAH-SOIL

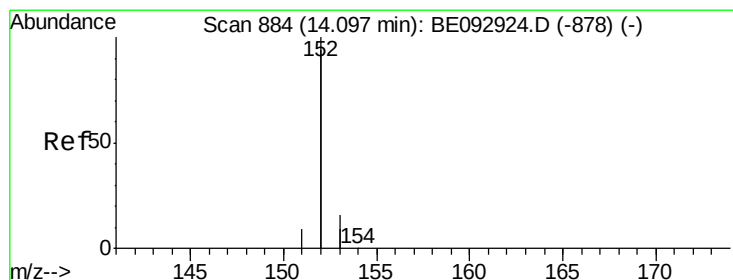
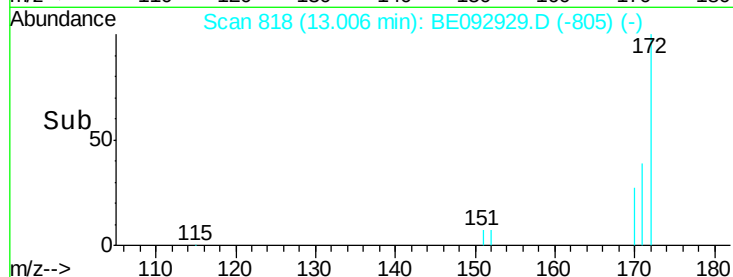
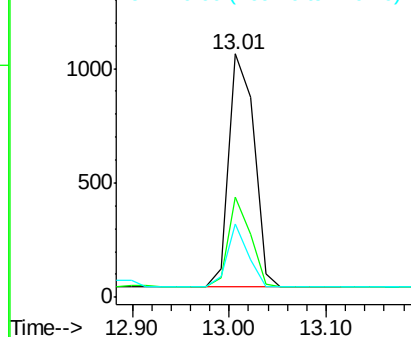
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 41.2  | 35.8  | 53.6  |
| 170     | 30.4  | 28.5  | 42.7  |

Manual Integrations  
APPROVED

mohammad  
5/8/2017 2:46:55 PM

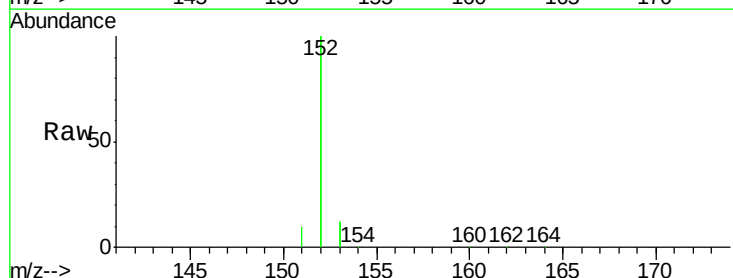


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

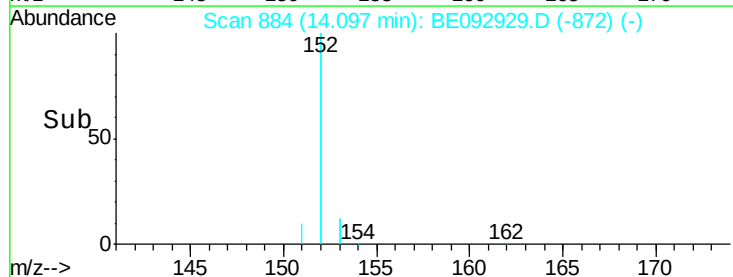
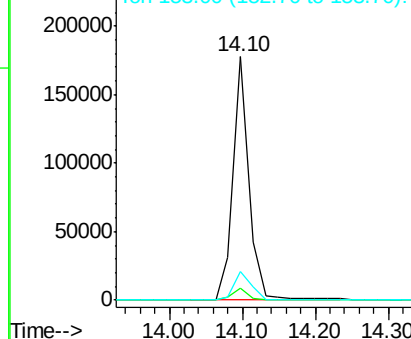


#16  
Acenaphthylene  
Concen: 11.03 ng  
RT: 14.10 min Scan# 884  
Delta R.T. 0.00 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15

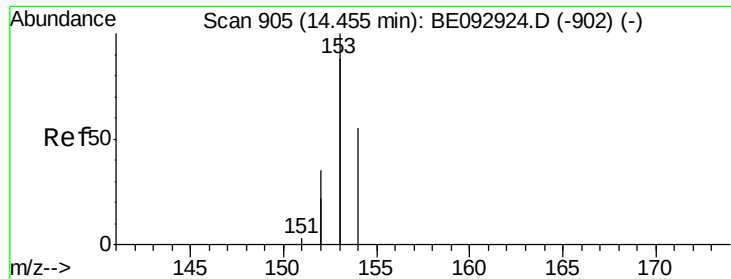
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 4.9   | 3.8   | 5.8   |
| 153     | 12.8  | 10.0  | 15.0  |



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







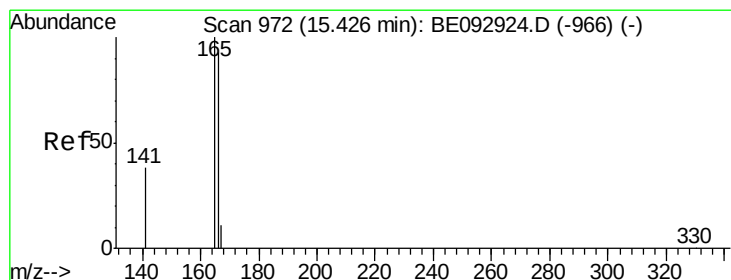
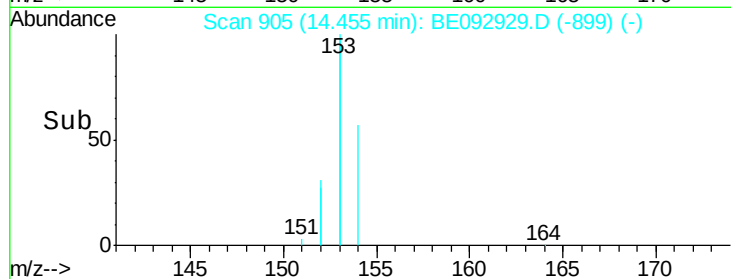
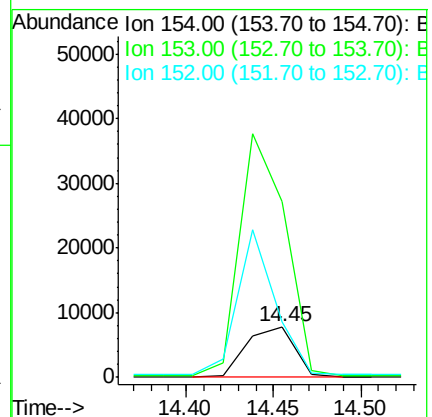
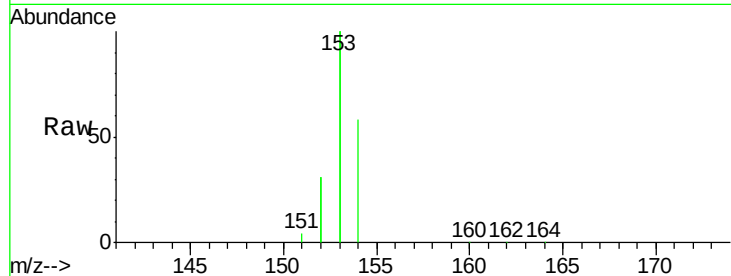
#17  
Acenaphthene  
Concen: 3.09 ng  
RT: 14.45 min Scan# 905  
Delta R.T. 0.00 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15

Instrument :  
BNA\_E  
ClientSampled :  
PT-PAH-SOIL

Tgt Ion:154 Resp: 14975  
Ion Ratio Lower Upper  
154 100  
153 459.7 355.6 533.4  
152 226.1 177.8 266.8

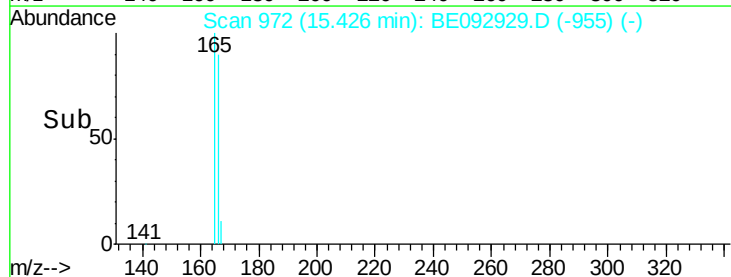
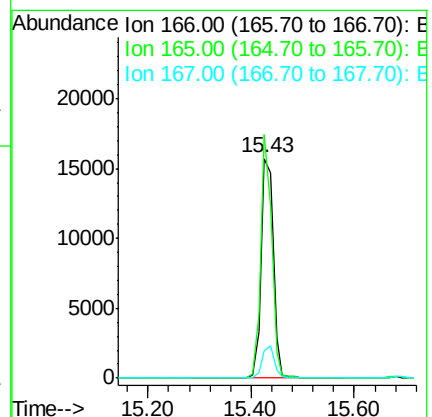
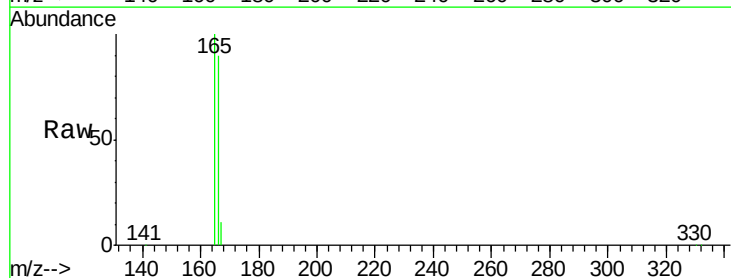
Manual Integrations  
APPROVED

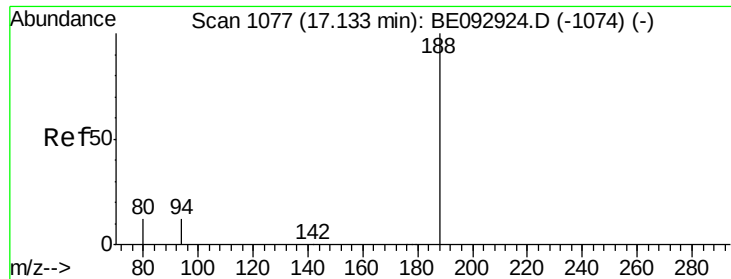
mohammad  
5/8/2017 2:46:55 PM



#18  
Fluorene  
Concen: 4.30 ng  
RT: 15.43 min Scan# 972  
Delta R.T. -0.00 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15

Tgt Ion:166 Resp: 25713  
Ion Ratio Lower Upper  
166 100  
165 99.0 80.7 121.1  
167 13.9 11.3 16.9





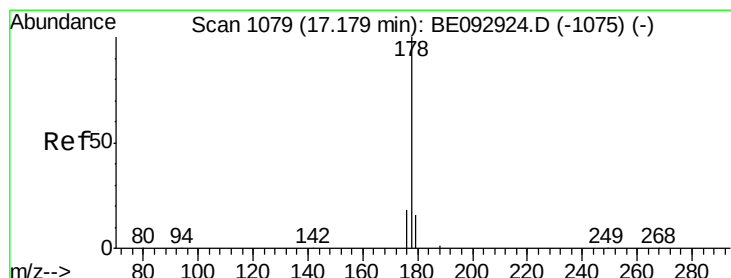
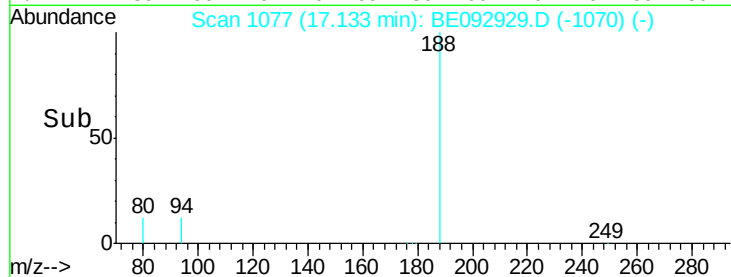
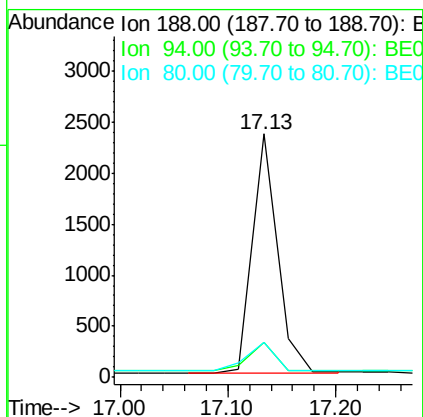
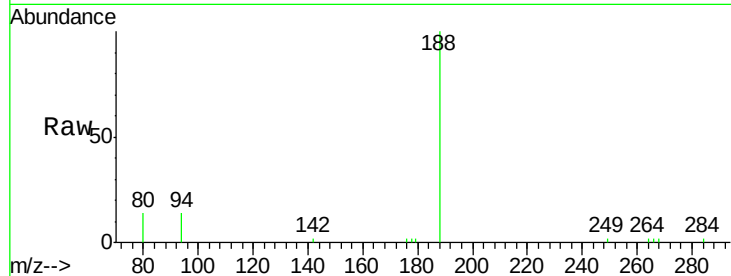
#19  
Phenanthrene-d10  
Concen: 0.40 ng  
RT: 17.13 min Scan# 1077  
Delta R.T. 0.00 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15

Instrument :  
BNA\_E  
ClientSampleId :  
PT-PAH-SOIL

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   | 3754 |       |       |
| 94      | 14.1  |      | 10.2  | 15.4  |
| 80      | 14.2  |      | 10.6  | 15.8  |

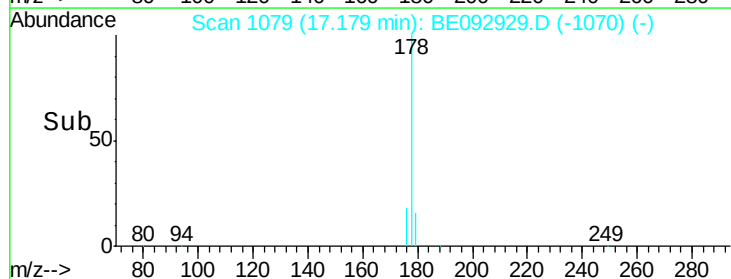
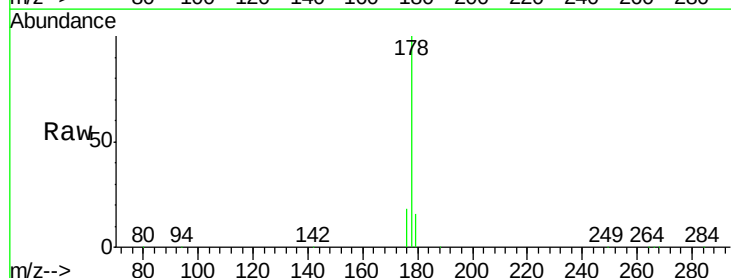
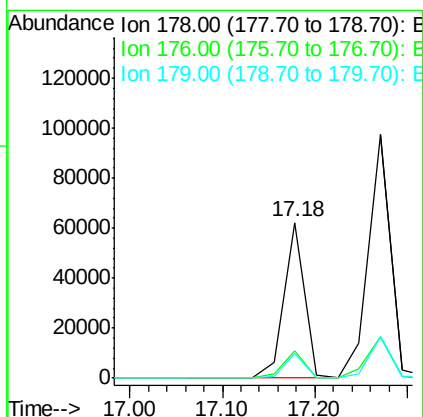
Manual Integrations  
APPROVED

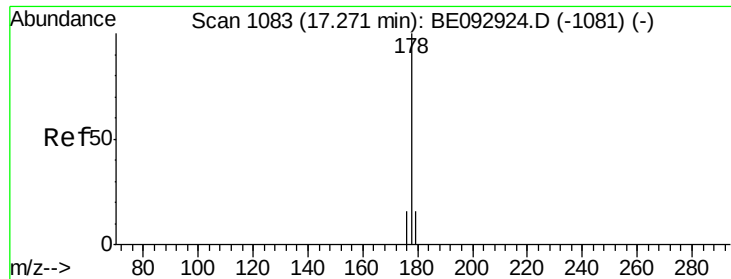
mohammad  
5/8/2017 2:46:55 PM



#22  
Phenanthrene  
Concen: 9.17 ng  
RT: 17.18 min Scan# 1079  
Delta R.T. 0.00 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 96900 |       |       |
| 176     | 18.8  |       | 14.2  | 21.4  |
| 179     | 15.7  |       | 13.6  | 20.4  |





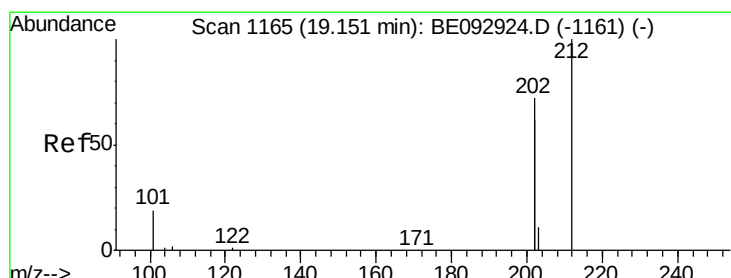
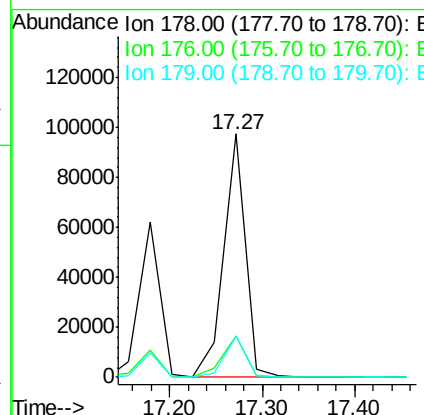
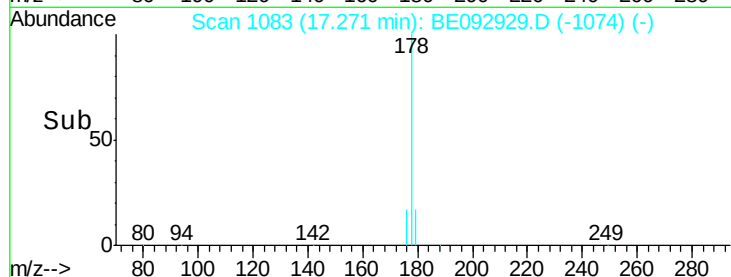
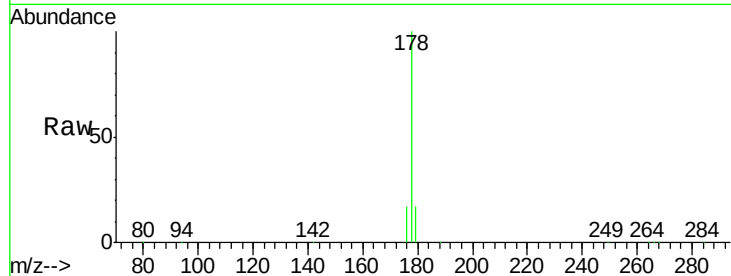
#23  
 Anthracene  
 Concen: 19.83 ng  
 RT: 17.27 min Scan# 1083  
 Delta R.T. 0.00 min  
 Lab File: BE092929.D  
 Acq: 5 May 2017 14:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PT-PAH-SOIL

Tgt Ion:178 Resp: 159582  
 Ion Ratio Lower Upper  
 178 100  
 176 18.0 14.7 22.1  
 179 16.1 12.8 19.2

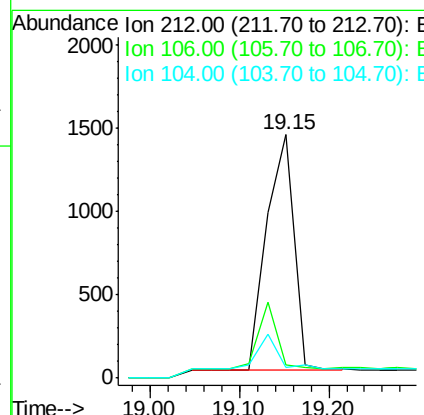
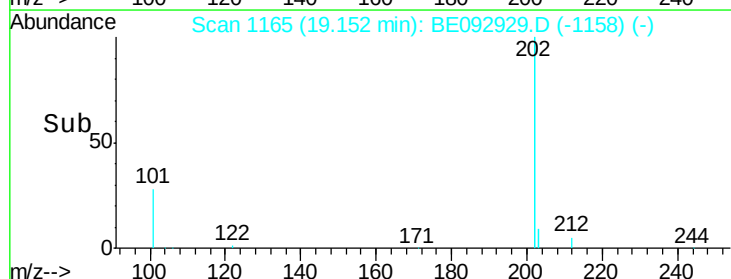
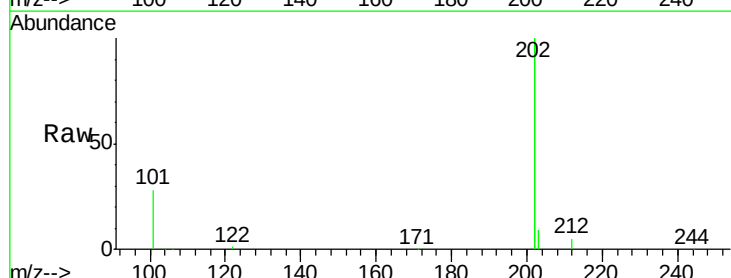
Manual Integrations  
 APPROVED

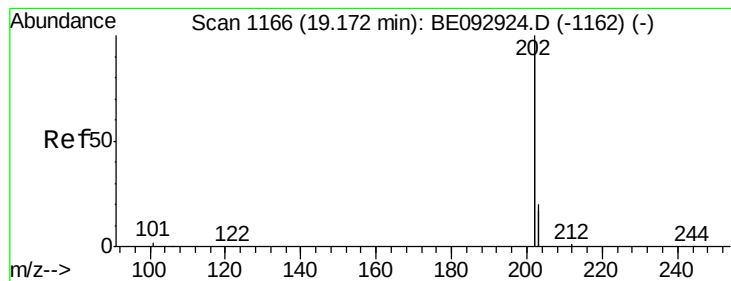
mohammad  
 5/8/2017 2:46:55 PM



#24  
 Fluoranthene-d10  
 Concen: 0.35 ng  
 RT: 19.15 min Scan# 1165  
 Delta R.T. 0.00 min  
 Lab File: BE092929.D  
 Acq: 5 May 2017 14:15

Tgt Ion:212 Resp: 3035  
 Ion Ratio Lower Upper  
 212 100  
 106 0.0 0.0 0.0  
 104 0.0 0.0 0.0





#25

Fluoranthene

Concen: 8.08 ng

RT: 19.17 min Scan# 1166

Delta R.T. 0.00 min

Lab File: BE092929.D

Acq: 5 May 2017 14:15

Instrument :

BNA\_E

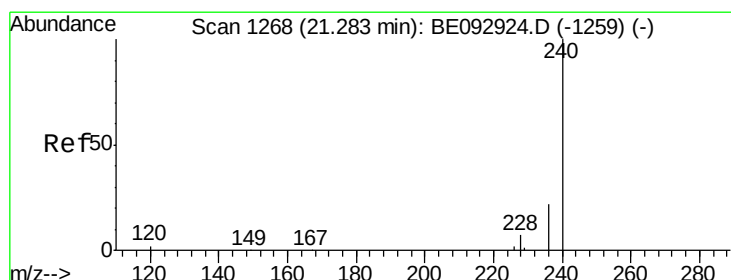
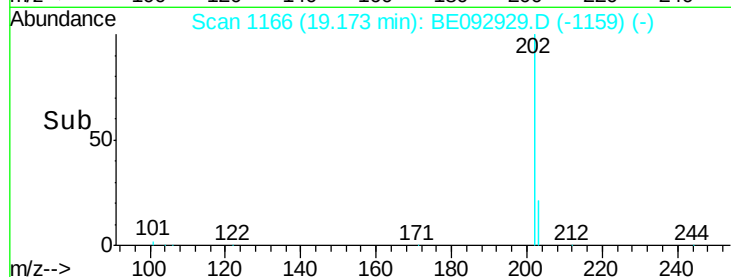
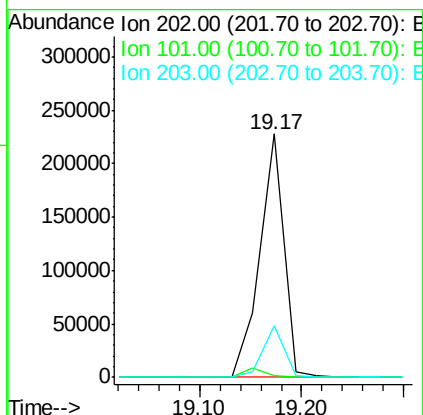
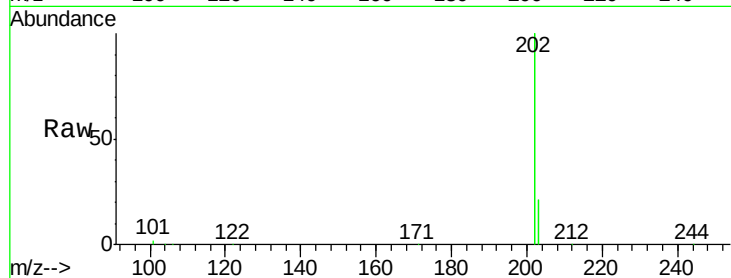
ClientSampleId :

PT-PAH-SOIL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 368741 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 0.0   | 0.0   | 0.0    |
| 203       | 18.6  | 15.3  | 22.9   |

Manual Integrations  
APPROVED

mohammad  
5/8/2017 2:46:55 PM



#26

Chrysene-d12

Concen: 0.40 ng

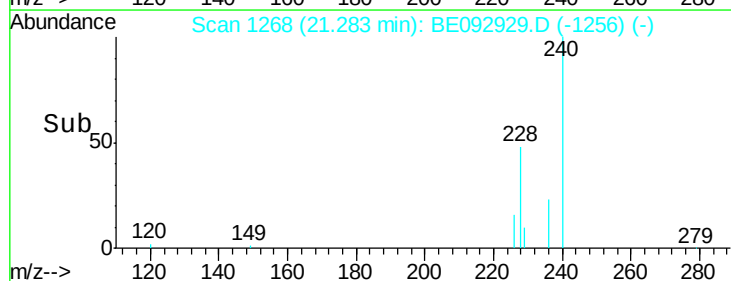
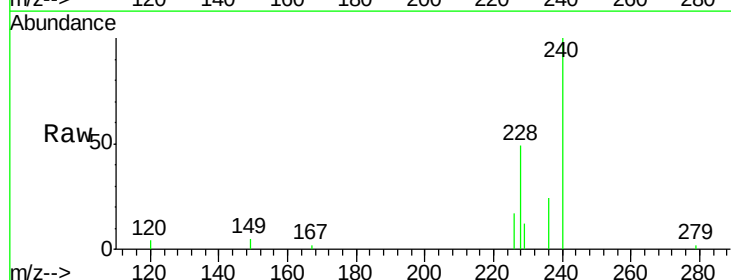
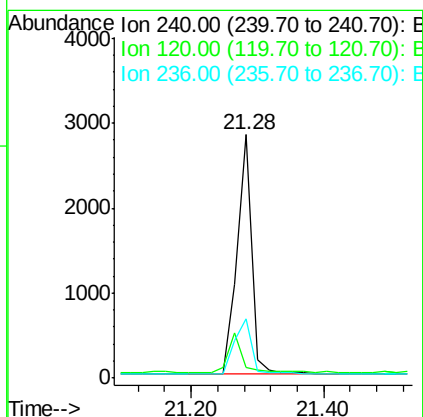
RT: 21.28 min Scan# 1268

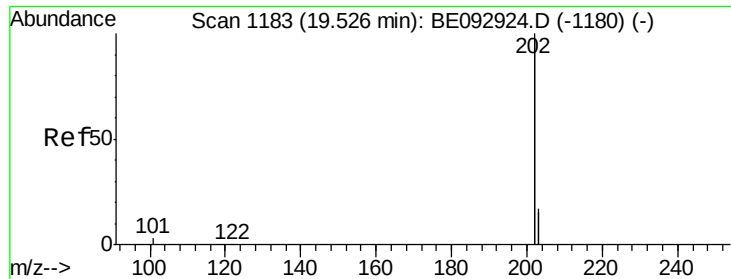
Delta R.T. -0.00 min

Lab File: BE092929.D

Acq: 5 May 2017 14:15

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 4328 |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 4.3   | 4.6   | 6.8# |
| 236       | 24.5  | 19.8  | 29.8 |





#27

Pyrene

Concen: 6.84 ng

RT: 19.53 min Scan# 1183

Delta R.T. 0.00 min

Lab File: BE092929.D

Acq: 5 May 2017 14:15

Instrument :

BNA\_E

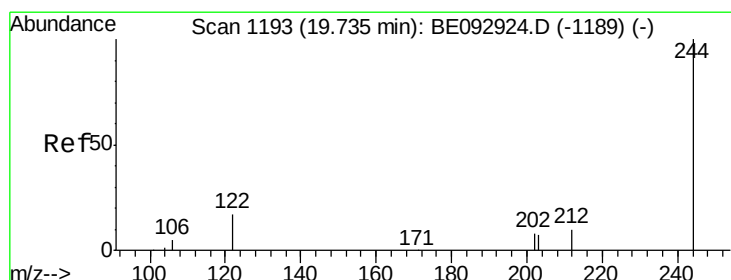
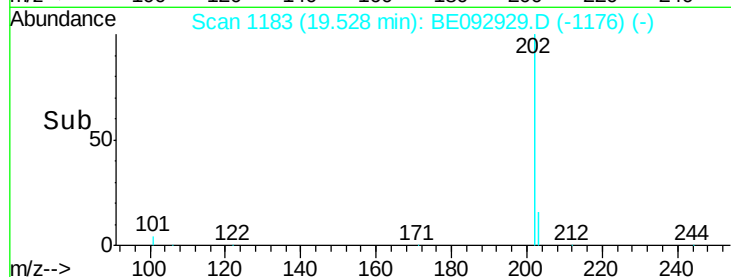
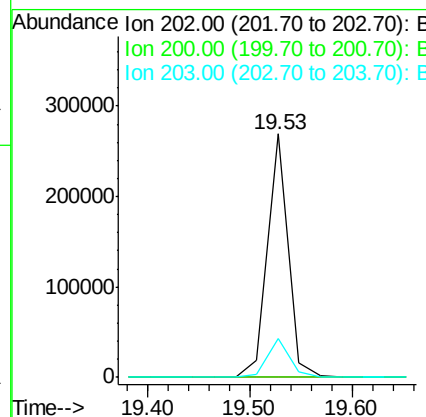
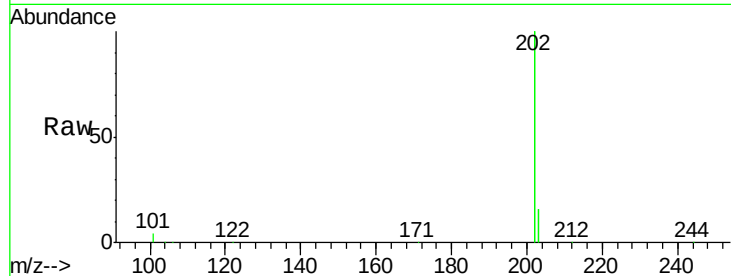
ClientSampleId :

PT-PAH-SOIL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 381872 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 0.0   | 0.0   | 0.0    |
| 203       | 17.2  | 13.5  | 20.3   |

Manual Integrations  
APPROVED

mohammad  
5/8/2017 2:46:55 PM



#28

Terphenyl-d14

Concen: 0.27 ng

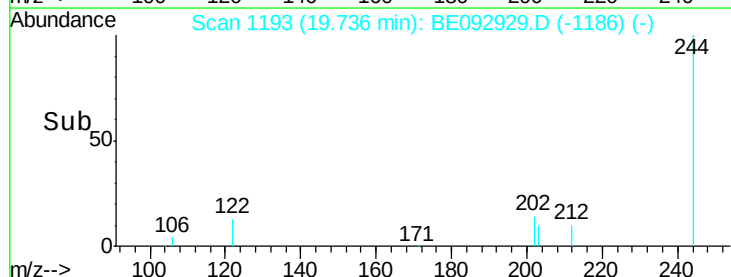
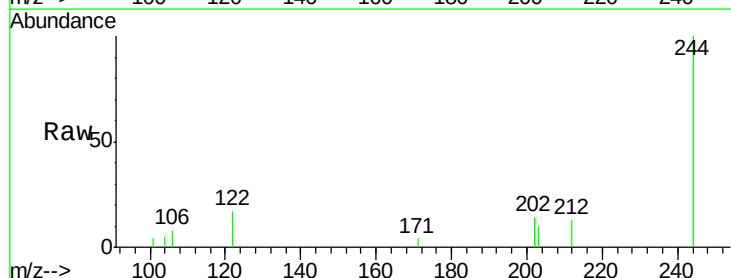
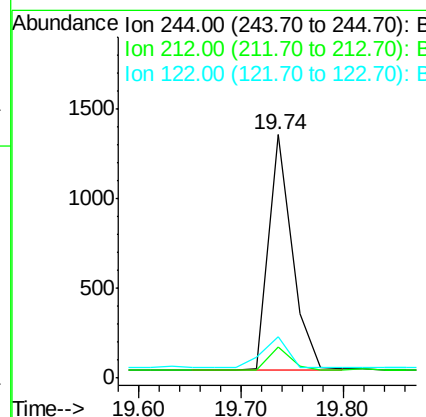
RT: 19.74 min Scan# 1193

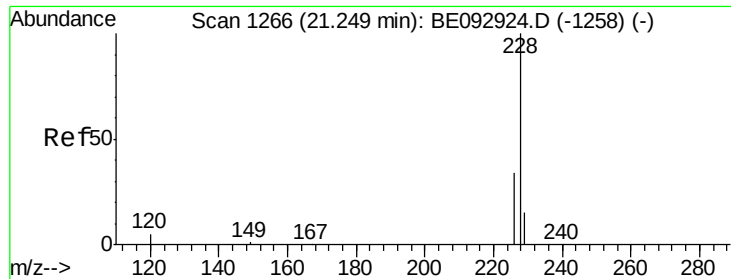
Delta R.T. 0.00 min

Lab File: BE092929.D

Acq: 5 May 2017 14:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 2068  |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 12.7  | 18.4  | 27.6# |
| 122       | 17.0  | 23.3  | 34.9# |





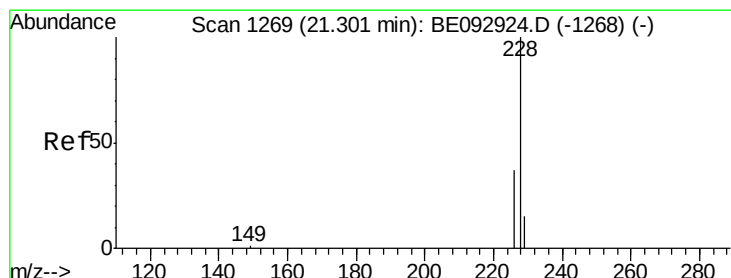
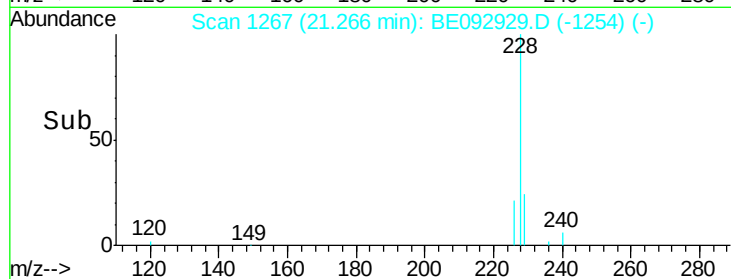
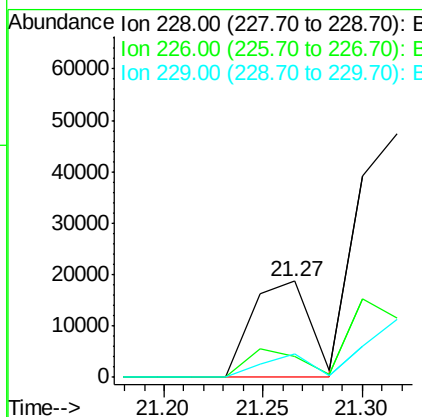
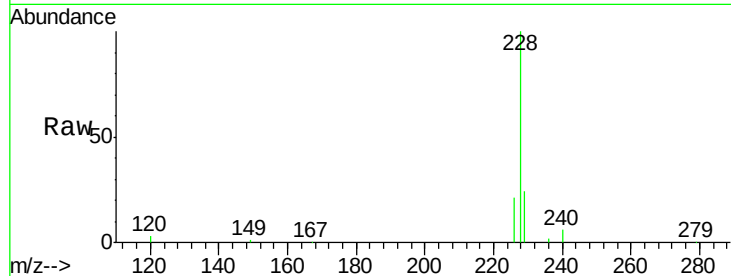
#29  
Benzo(a)anthracene  
Concen: 3.73 ng m  
RT: 21.27 min Scan# 1267  
Delta R.T. 0.02 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15

Instrument :  
BNA\_E  
ClientSampleId :  
PT-PAH-SOIL

Tgt Ion:228 Resp: 37917  
Ion Ratio Lower Upper  
228 100  
226 21.2 32.0 48.0#  
229 24.1 21.4 32.0

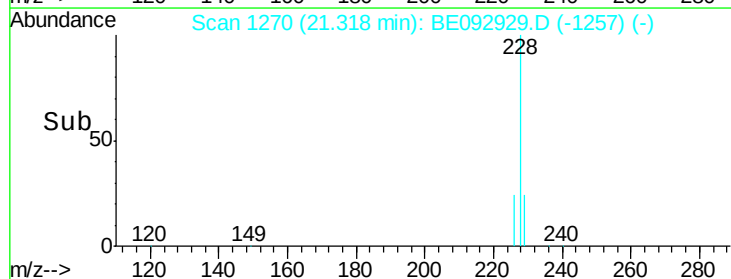
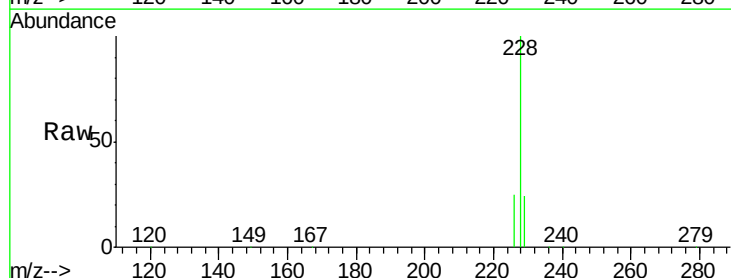
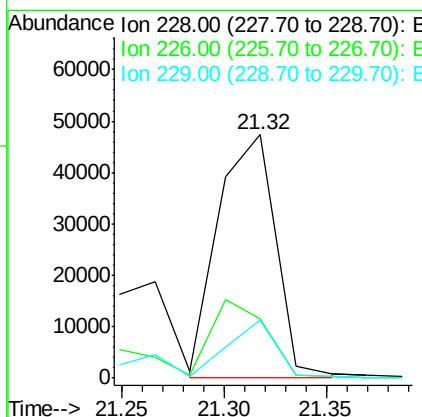
Manual Integrations  
APPROVED

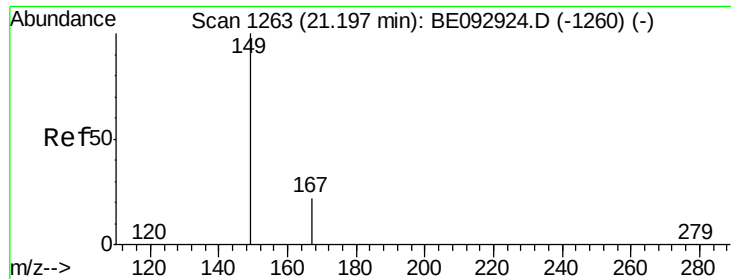
mohammad  
5/8/2017 2:46:55 PM



#30  
Chrysene  
Concen: 7.21 ng m  
RT: 21.32 min Scan# 1270  
Delta R.T. 0.02 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15

Tgt Ion:228 Resp: 93133  
Ion Ratio Lower Upper  
228 100  
226 24.6 34.2 51.2#  
229 24.0 18.6 28.0





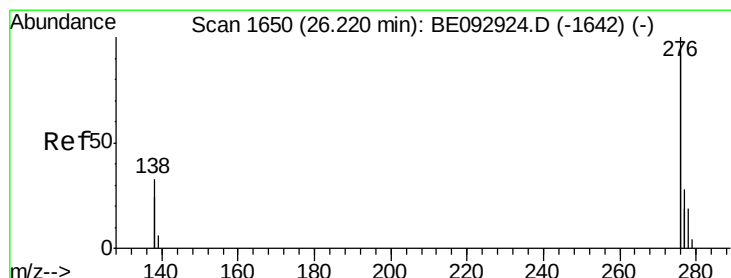
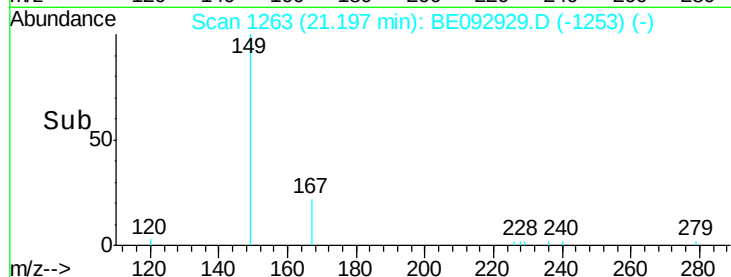
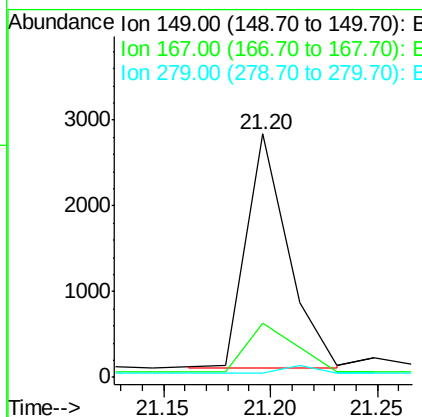
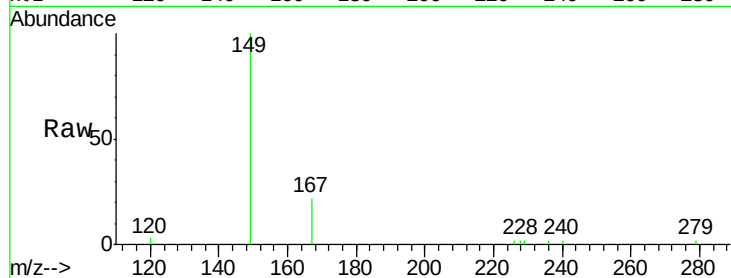
#31  
 Bis(2-ethylhexyl)phthalate  
 Concen: 1.33 ng m  
 RT: 21.20 min Scan# 1263  
 Delta R.T. -0.00 min  
 Lab File: BE092929.D  
 Acq: 5 May 2017 14:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PT-PAH-SOIL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 24.0  | 20.9  | 31.3  |
| 279     | 2.8   | 0.0   | 0.0#  |

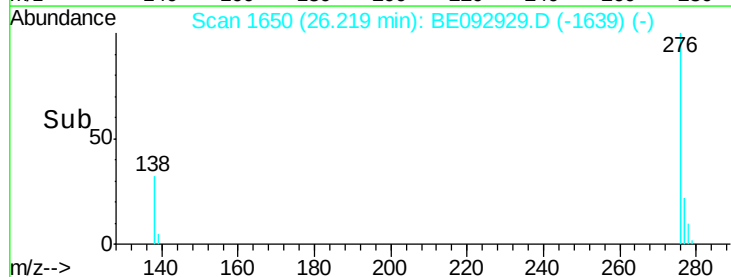
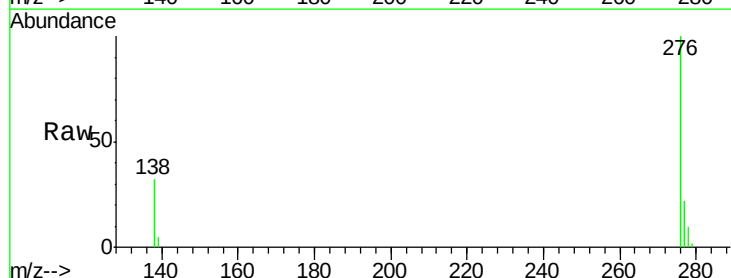
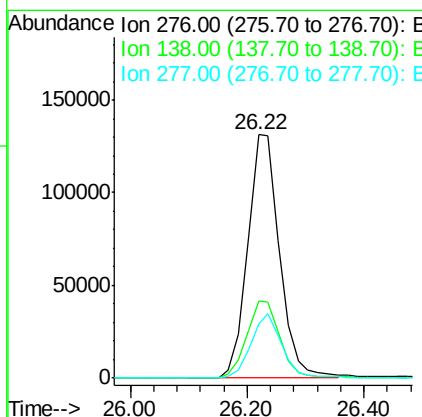
Manual Integrations  
 APPROVED

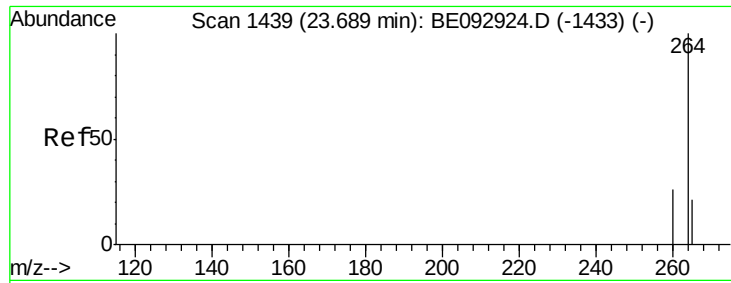
mohammad  
 5/8/2017 2:46:55 PM



#32  
 Indeno(1,2,3-cd)pyrene  
 Concen: 10.66 ng  
 RT: 26.22 min Scan# 1650  
 Delta R.T. -0.00 min  
 Lab File: BE092929.D  
 Acq: 5 May 2017 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 32.9  | 25.8  | 38.6  |
| 277     | 25.0  | 20.2  | 30.4  |





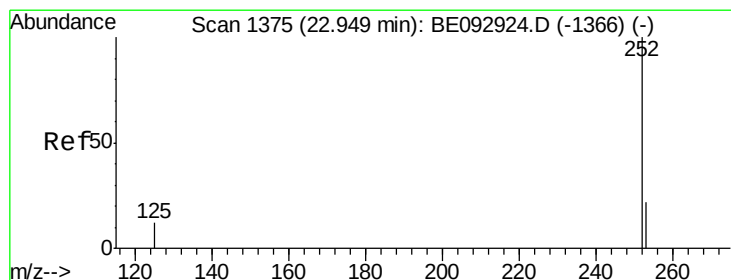
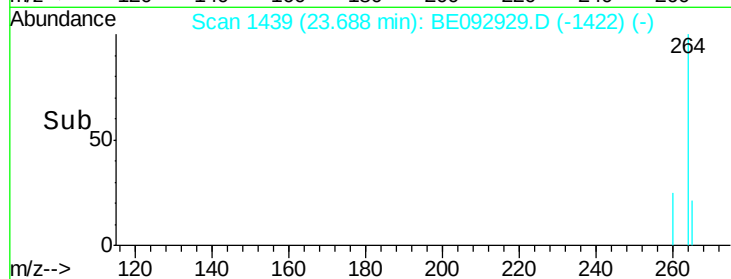
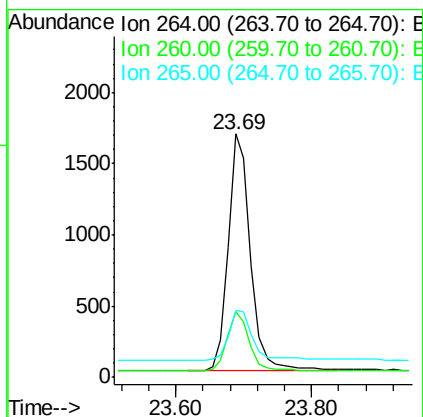
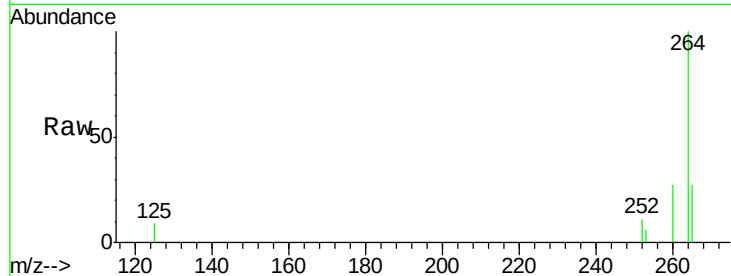
#33  
**Perylene-d12**  
 Concen: 0.40 ng  
 RT: 23.69 min Scan# 1439  
 Delta R.T. -0.00 min  
 Lab File: BE092929.D  
 Acq: 5 May 2017 14:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PT-PAH-SOIL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 27.3  | 23.5  | 35.3  |
| 265     | 27.3  | 27.2  | 40.8  |

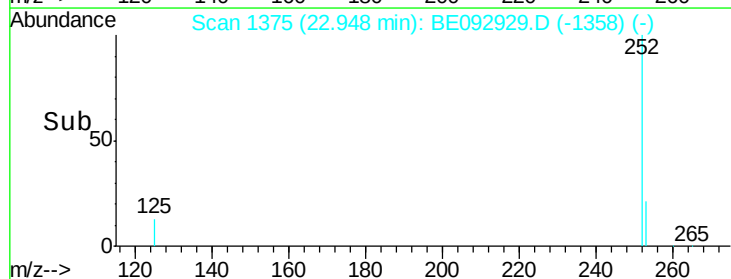
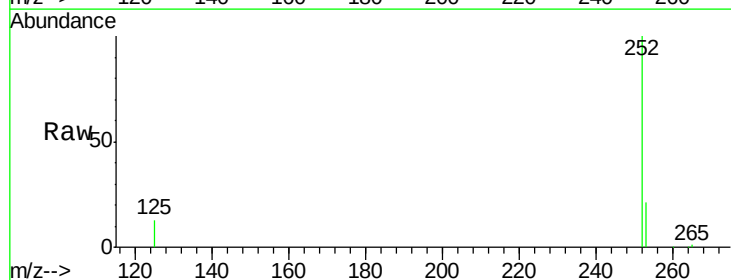
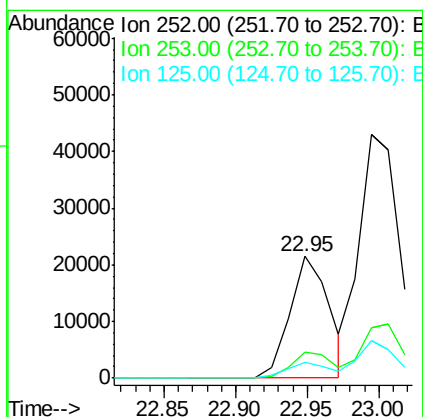
Manual Integrations  
 APPROVED

mohammad  
 5/8/2017 2:46:55 PM

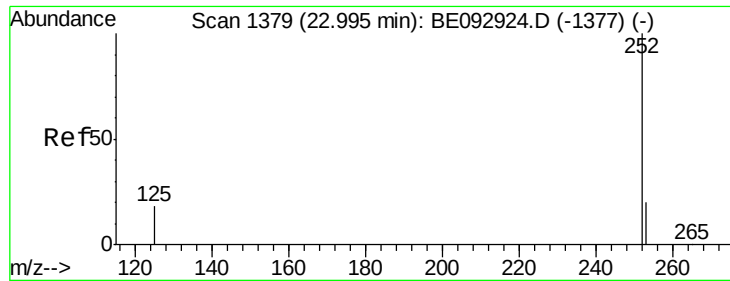


#34  
**Benzo(b)fluoranthene**  
 Concen: 3.24 ng  
 RT: 22.95 min Scan# 1375  
 Delta R.T. -0.00 min  
 Lab File: BE092929.D  
 Acq: 5 May 2017 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.0  | 24.7  | 37.1# |
| 125     | 13.4  | 20.3  | 30.5# |







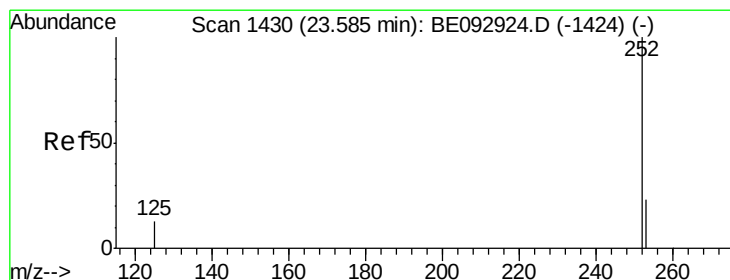
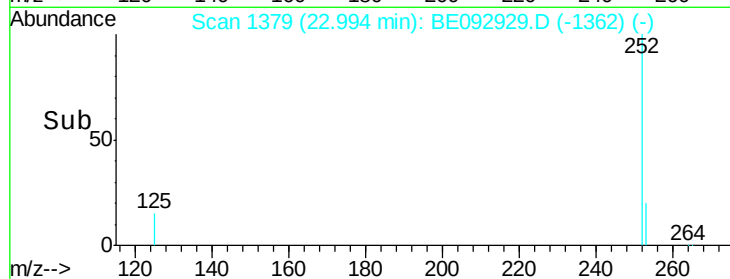
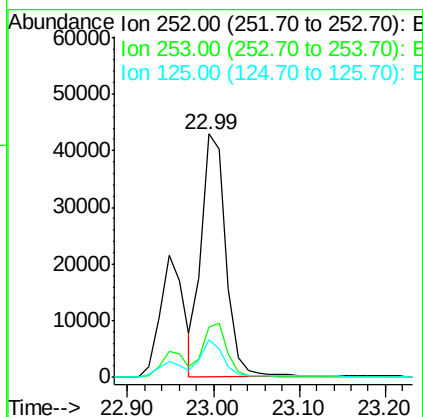
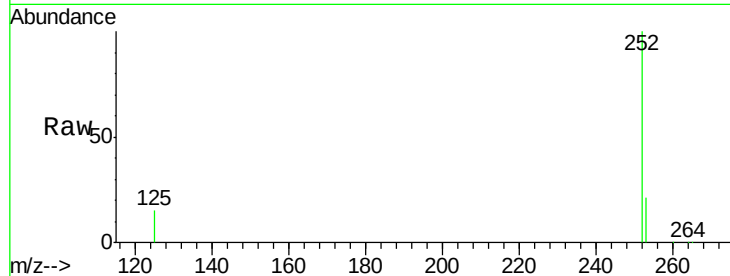
#35  
Benzo(k)fluoranthene  
Concen: 6.75 ng  
RT: 22.99 min Scan# 1379  
Delta R.T. -0.00 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15

Instrument :  
BNA\_E  
ClientSampleId :  
PT-PAH-SOIL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 20.5  | 25.8  | 38.8# |
| 125     | 15.2  | 22.9  | 34.3# |

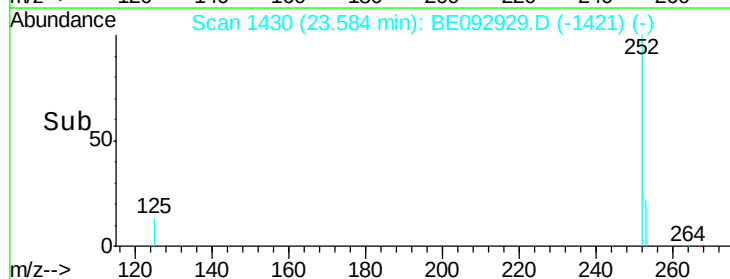
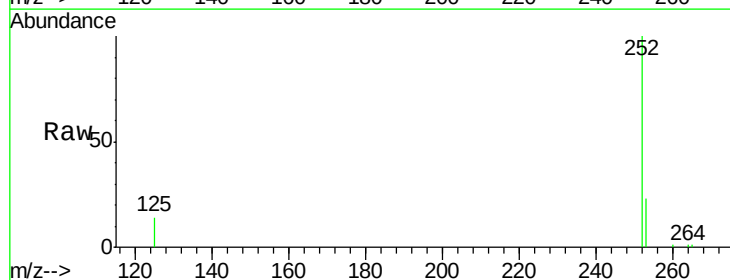
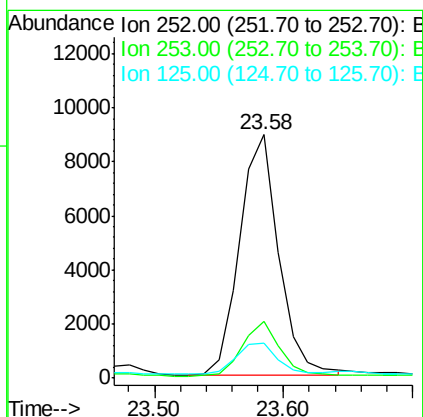
Manual Integrations  
APPROVED

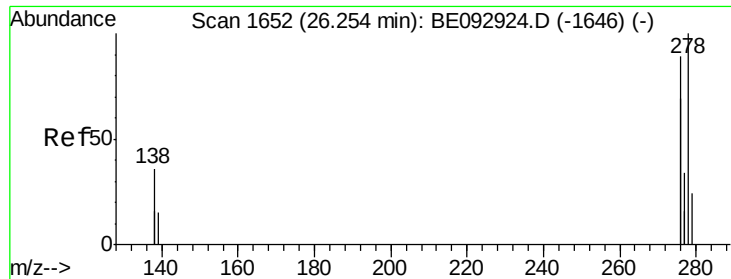
mohammad  
5/8/2017 2:46:55 PM



#36  
Benzo(a)pyrene  
Concen: 1.84 ng  
RT: 23.58 min Scan# 1430  
Delta R.T. -0.00 min  
Lab File: BE092929.D  
Acq: 5 May 2017 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 31.3  | 46.9# |
| 125     | 14.2  | 26.4  | 39.6# |





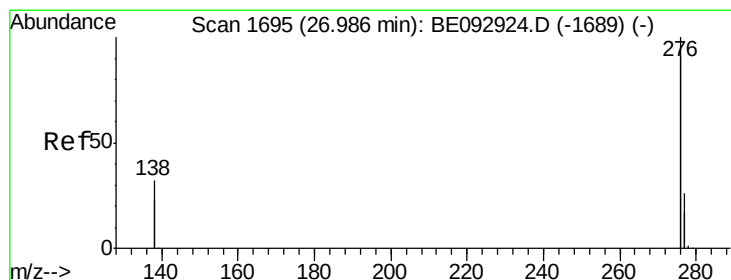
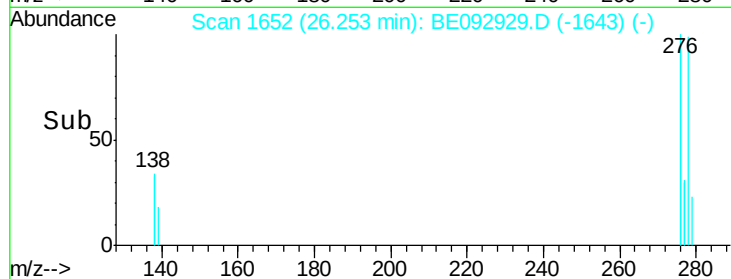
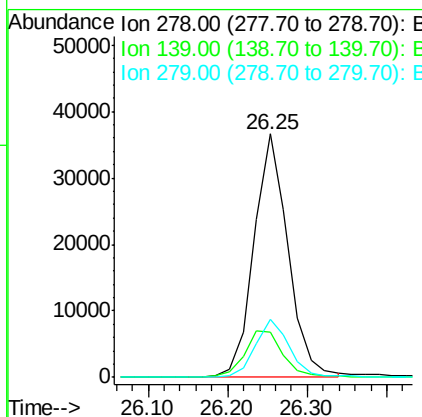
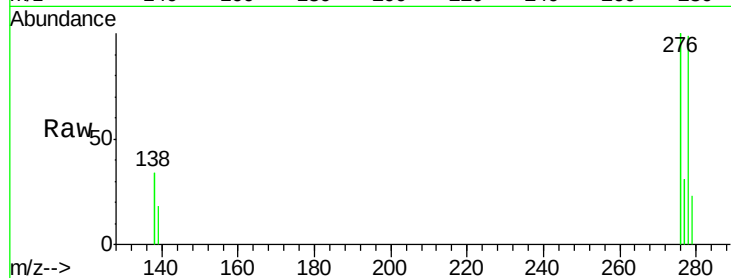
#37  
**Dibenzo(a,h)anthracene**  
 Concen: 9.48 ng  
 RT: 26.25 min Scan# 1652  
 Delta R.T. -0.00 min  
 Lab File: BE092929.D  
 Acq: 5 May 2017 14:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PT-PAH-SOIL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 278     | 100   |            |            |
| 139     | 18.6  | 27.4       | 41.2#      |
| 279     | 23.6  | 33.3       | 49.9#      |

Manual Integrations  
 APPROVED

mohammad  
 5/8/2017 2:46:55 PM



#38  
**Benzo(g,h,i)perylene**  
 Concen: 6.59 ng  
 RT: 27.00 min Scan# 1696  
 Delta R.T. 0.02 min  
 Lab File: BE092929.D  
 Acq: 5 May 2017 14:15

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 277     | 23.9  | 29.9       | 44.9#      |
| 138     | 26.9  | 34.6       | 51.8#      |

