

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061517\  
 Data File : BE093224.D  
 Acq On : 16 Jun 2017 00:51  
 Operator : SJ/MA  
 Sample : I3521-04DL 5X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5C42DL

Manual Integrations  
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mohammad  
 6/19/2017 11:07:04 AM

Quant Time: Jun 16 05:48:09 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 16 05:36:31 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.74  | 152  | 3103     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.52 | 136  | 16302    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.37 | 164  | 9670     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.10 | 188  | 22786    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.26 | 240  | 22905    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.66 | 264  | 20948    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152  | 1176     | 0.05   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.13 | 212  | 3083     | 0.05   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.57 | 128  | 2291     | 0.057  | ng/ul# | 95       |
| 5) 2-Methylnaphthalene      | 12.19 | 142  | 615      | 0.022  | ng/ul  | 100      |
| 7) Acenaphthylene           | 14.09 | 152  | 6141     | 0.148  | ng/ul  | 98       |
| 12) Phenanthrene            | 17.13 | 178  | 7097     | 0.113  | ng/ul# | 88       |
| 13) Anthracene              | 17.22 | 178  | 8308     | 0.152  | ng/ul# | 88       |
| 15) Fluoranthene            | 19.16 | 202  | 41942    | 0.546  | ng/ul  | 83       |
| 17) Pyrene                  | 19.52 | 202  | 57587    | 0.853  | ng/ul# | 83       |
| 18) Benzo(a)anthracene      | 21.24 | 228  | 35553    | 0.582  | ng/ul# | 85       |
| 19) Chrysene                | 21.30 | 228  | 56135    | 0.886  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.93 | 252  | 108828m  | 1.712  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.98 | 252  | 37936m   | 0.562  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.56 | 252  | 48450    | 0.806  | ng/ul# | 84       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.18 | 276  | 36051    | 0.518  | ng/ul# | 87       |
| 25) Dibenzo(a,h)anthracene  | 26.19 | 278  | 9589     | 0.164  | ng/ul# | 87       |
| 26) Benzo(g,h,i)perylene    | 26.96 | 276  | 29393    | 0.492  | ng/ul  | 96       |

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

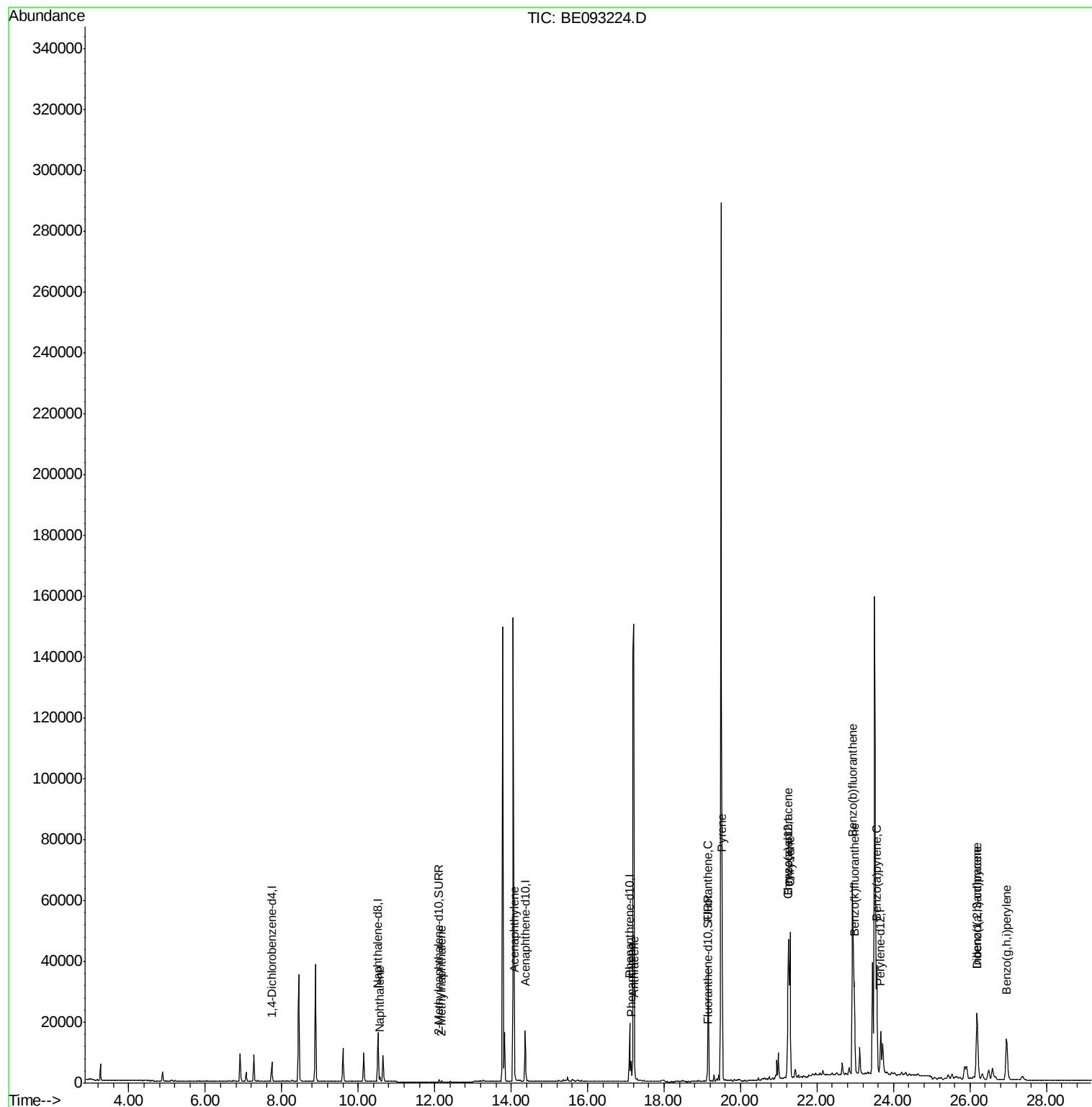
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061517\  
Data File : BE093224.D  
Acq On : 16 Jun 2017 00:51  
Operator : SJ/MA  
Sample : I3521-04DL 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

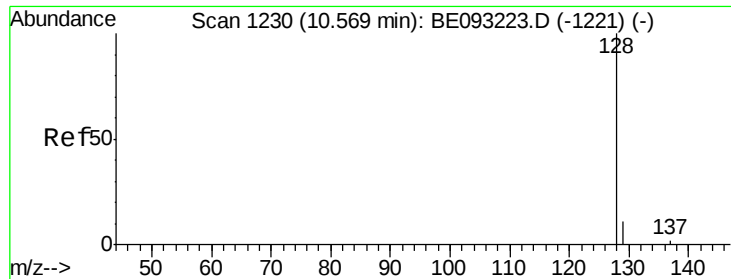
Instrument :  
BNA\_E  
ClientSampleId :  
F5C42DL

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Quant Time: Jun 16 05:48:09 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 16 05:36:31 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.057 ng/ul

RT: 10.57 min Scan# 1230

Delta R.T. -0.00 min

Lab File: BE093224.D

Acq: 16 Jun 2017 00:51

Instrument :

BNA\_E

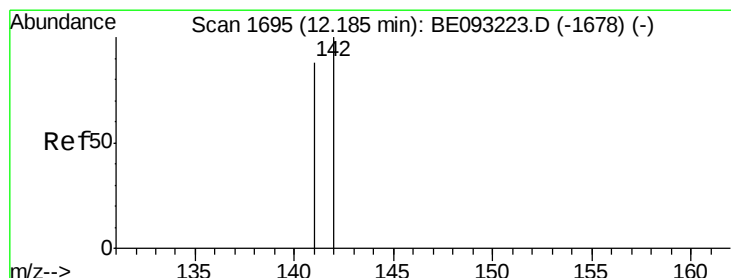
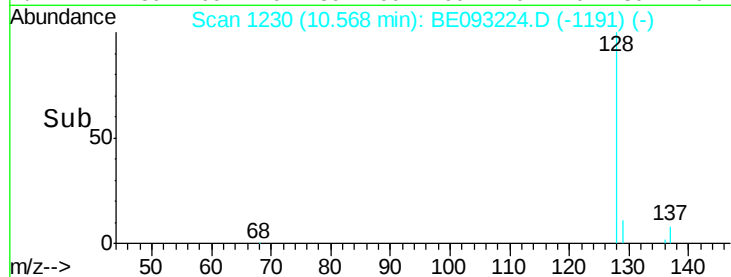
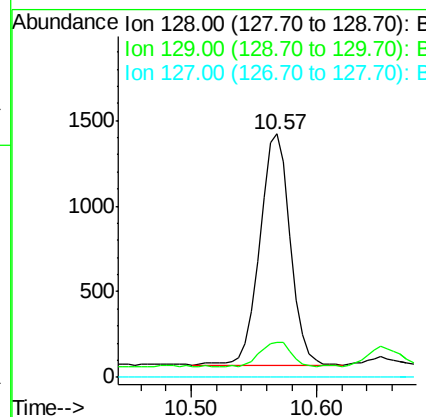
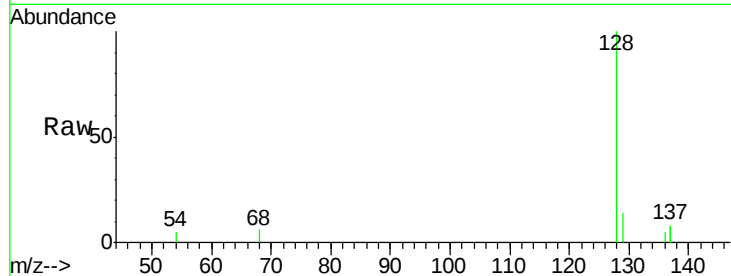
ClientSampleId :

F5C42DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 2291 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 14.5  | 11.3  | 16.9 |
| 127       | 0.0   | 4.0   | 6.0  |

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#5

2-Methylnaphthalene

Concen: 0.022 ng/ul

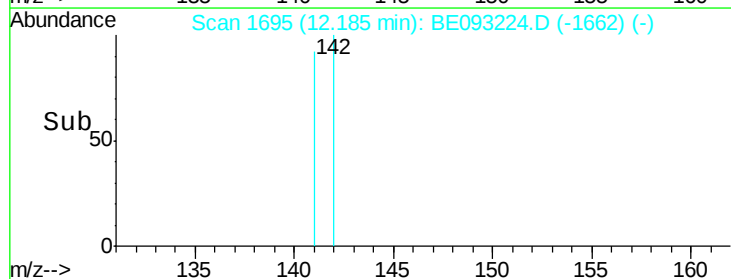
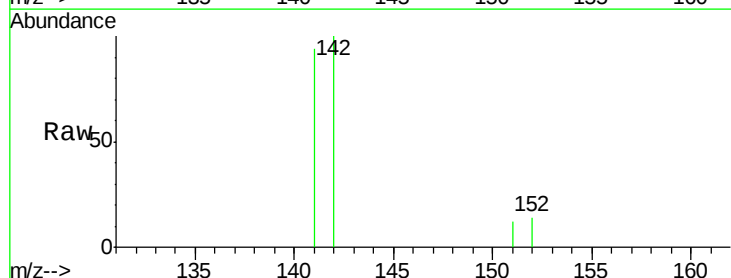
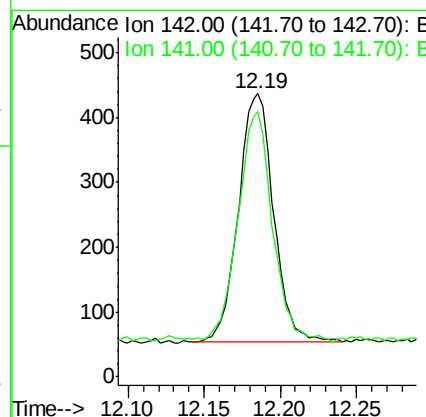
RT: 12.19 min Scan# 1695

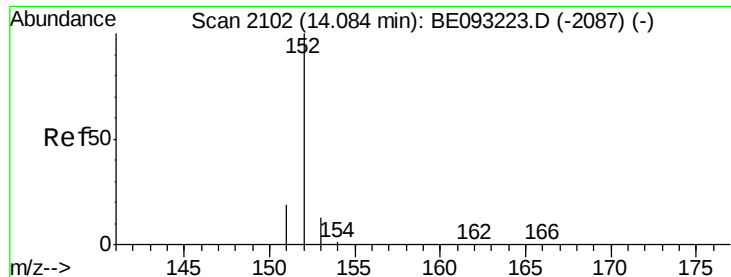
Delta R.T. 0.00 min

Lab File: BE093224.D

Acq: 16 Jun 2017 00:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 615   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 90.4  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.148 ng/ul

RT: 14.09 min Scan# 2103

Delta R.T. 0.00 min

Lab File: BE093224.D

Acq: 16 Jun 2017 00:51

Instrument :

BNA\_E

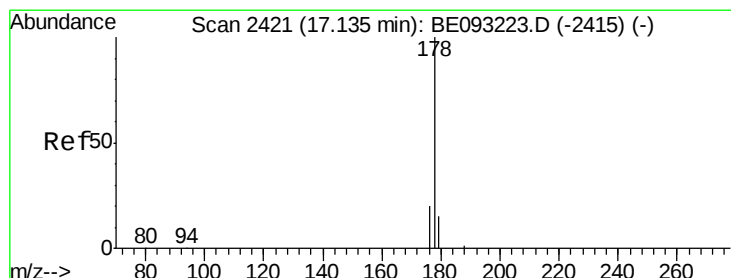
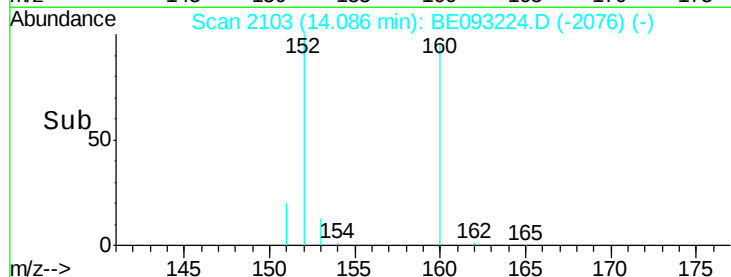
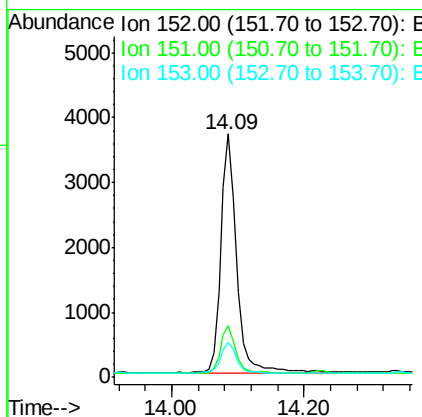
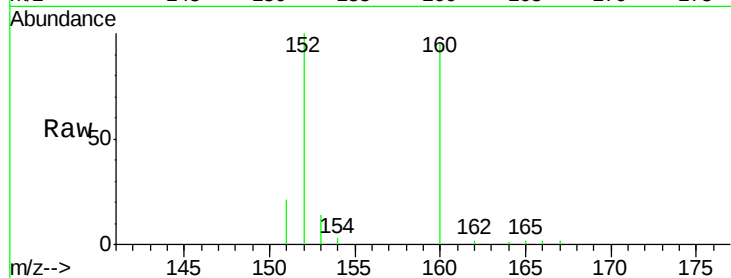
ClientSampleId :

F5C42DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 6141 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 21.1  | 17.1  | 25.7 |
| 153       | 14.1  | 12.8  | 19.2 |

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#12

Phenanthrene

Concen: 0.113 ng/ul

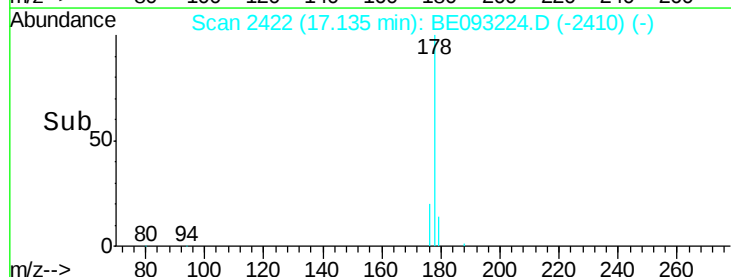
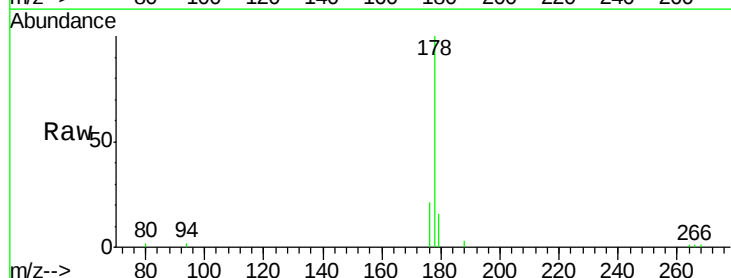
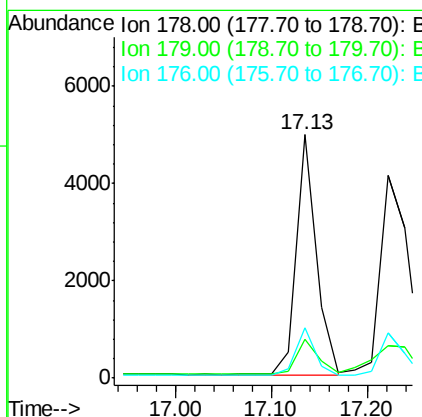
RT: 17.13 min Scan# 2422

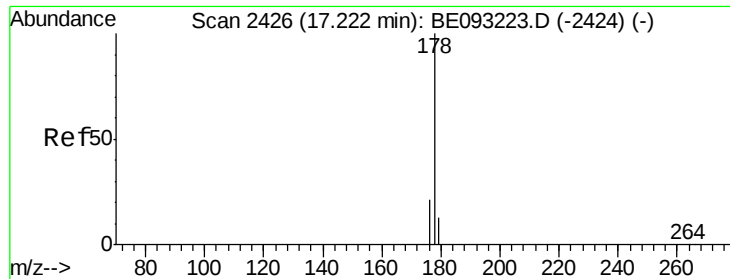
Delta R.T. -0.00 min

Lab File: BE093224.D

Acq: 16 Jun 2017 00:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 7097  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.8  | 18.4  | 27.6# |
| 176       | 20.7  | 13.6  | 20.4# |





#13

Anthracene

Concen: 0.152 ng/ul

RT: 17.22 min Scan# 2427

Delta R.T. -0.00 min

Lab File: BE093224.D

Acq: 16 Jun 2017 00:51

Instrument :

BNA\_E

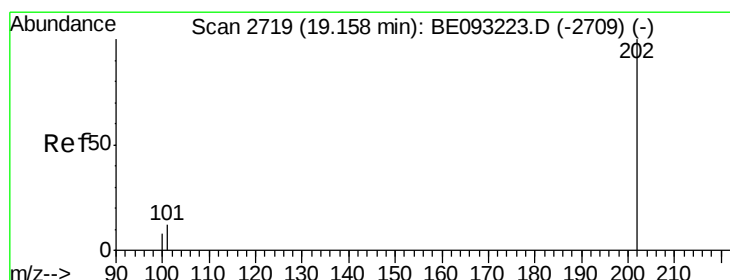
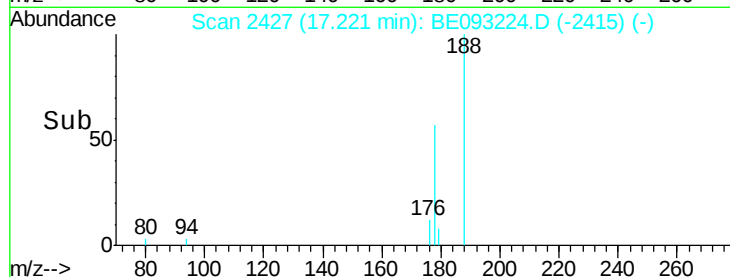
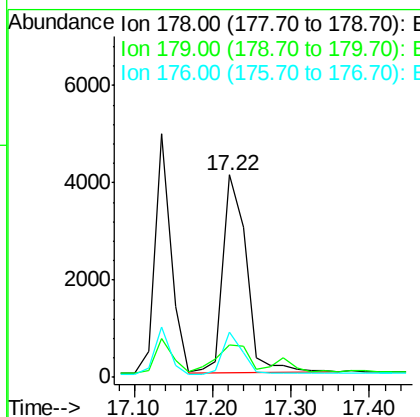
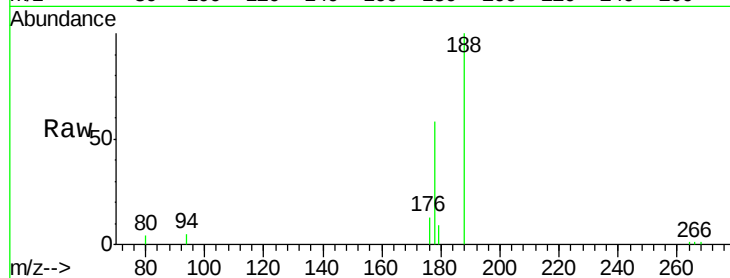
ClientSampleId :

F5C42DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 8308  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.7  | 18.1  | 27.1# |
| 176       | 22.3  | 14.7  | 22.1# |

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#15

Fluoranthene

Concen: 0.546 ng/ul

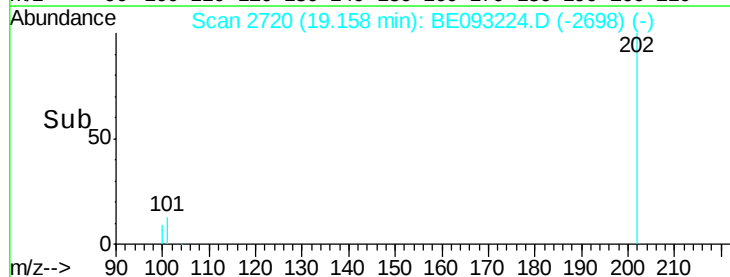
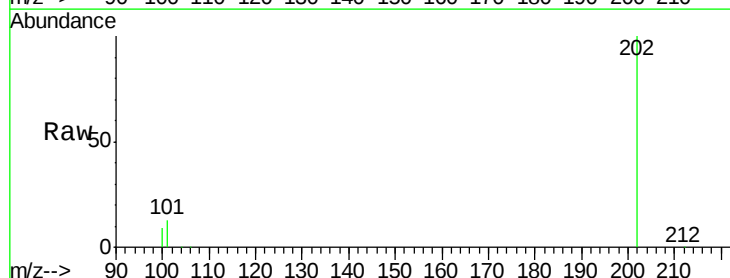
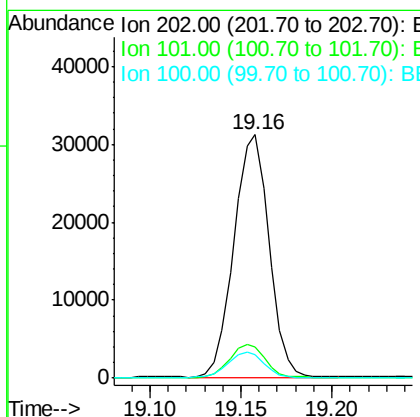
RT: 19.16 min Scan# 2720

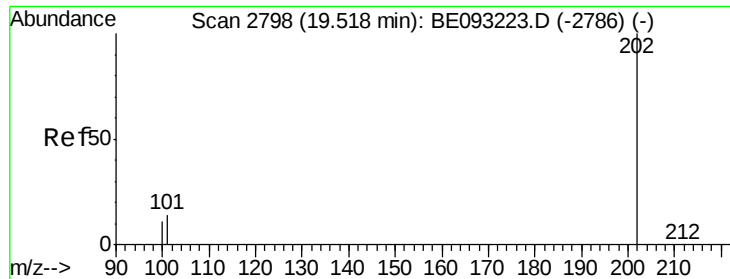
Delta R.T. -0.00 min

Lab File: BE093224.D

Acq: 16 Jun 2017 00:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 41942 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.9  | 0.0   | 30.3  |
| 100       | 9.4   | 0.0   | 39.5  |





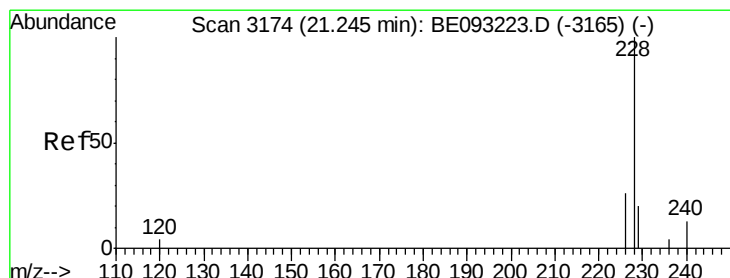
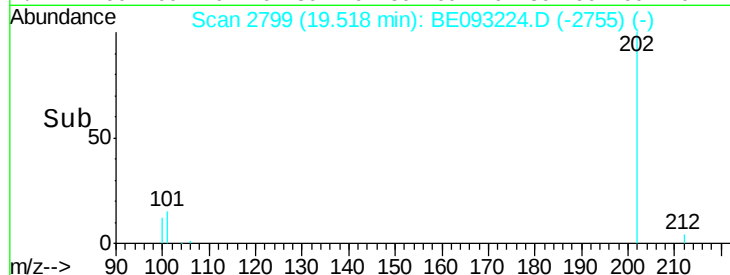
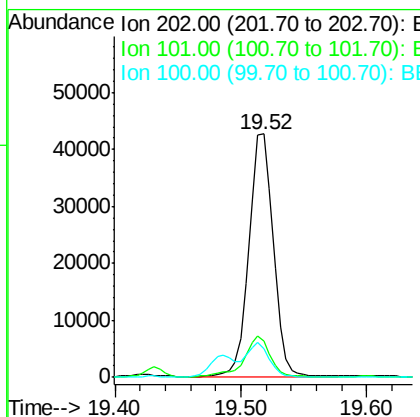
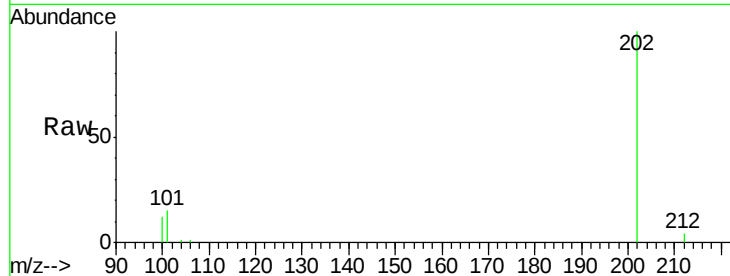
#17  
**Pyrene**  
 Concen: 0.853 ng/ul  
 RT: 19.52 min Scan# 2799  
 Delta R.T. -0.00 min  
 Lab File: BE093224.D  
 Acq: 16 Jun 2017 00:51

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5C42DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 15.0  | 18.2       | 27.4#      |
| 100     | 11.8  | 15.6       | 23.4#      |

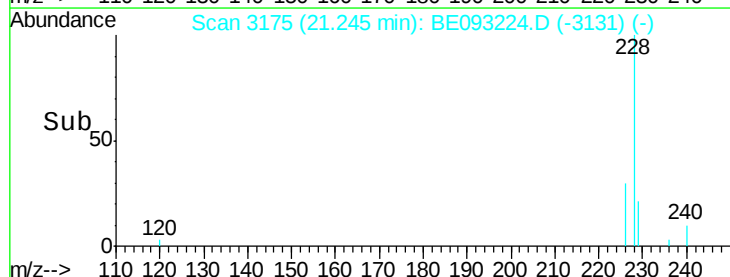
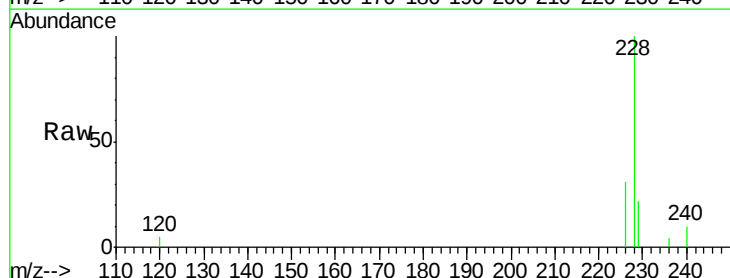
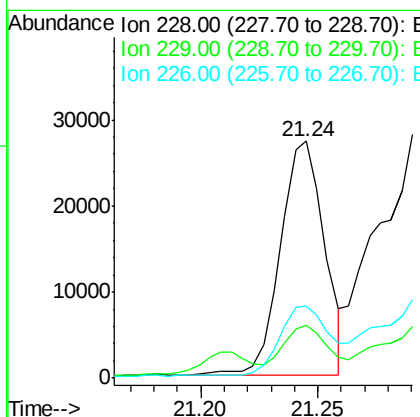
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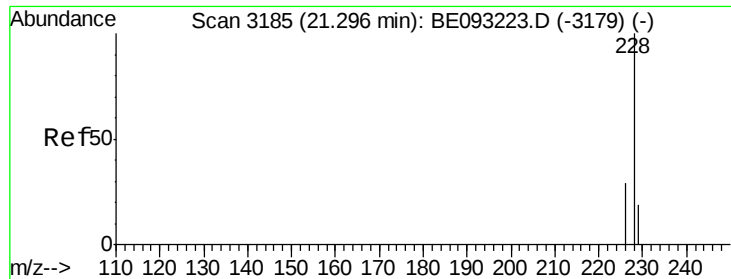
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 6/19/2017 11:07:04 AM



#18  
**Benzo(a)anthracene**  
 Concen: 0.582 ng/ul  
 RT: 21.24 min Scan# 3175  
 Delta R.T. -0.00 min  
 Lab File: BE093224.D  
 Acq: 16 Jun 2017 00:51

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 22.3  | 22.8       | 34.2#      |
| 226     | 30.7  | 17.0       | 25.6#      |





#19

Chrysene

Concen: 0.886 ng/ul

RT: 21.30 min Scan# 3186

Delta R.T. -0.00 min

Lab File: BE093224.D

Acq: 16 Jun 2017 00:51

Instrument :

BNA\_E

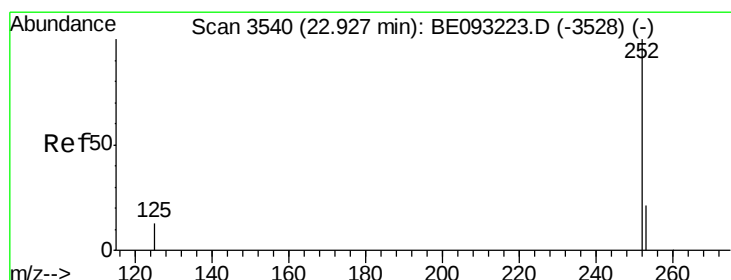
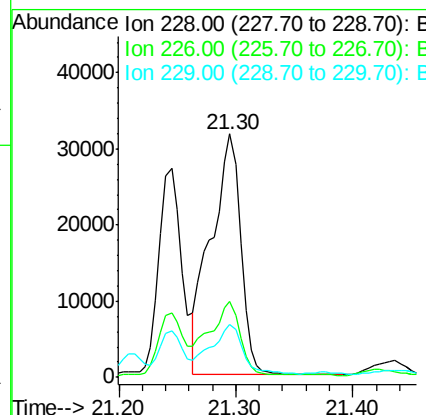
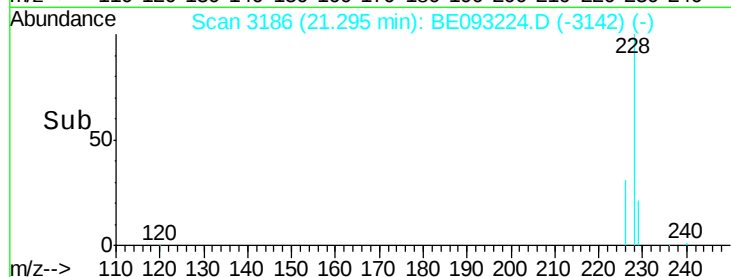
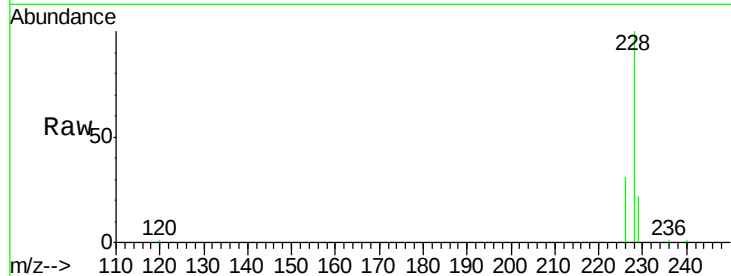
ClientSampleId :

F5C42DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 56135 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.1  | 23.4  | 35.0  |
| 229       | 21.7  | 17.7  | 26.5  |

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#21

Benzo(b)fluoranthene

Concen: 1.712 ng/ul m

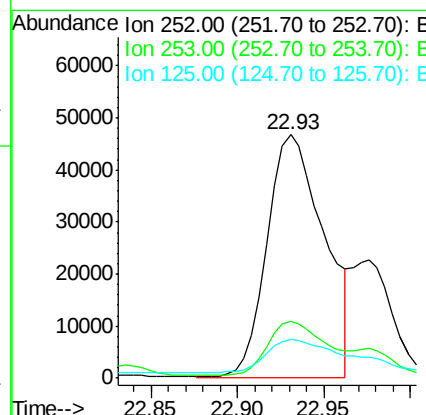
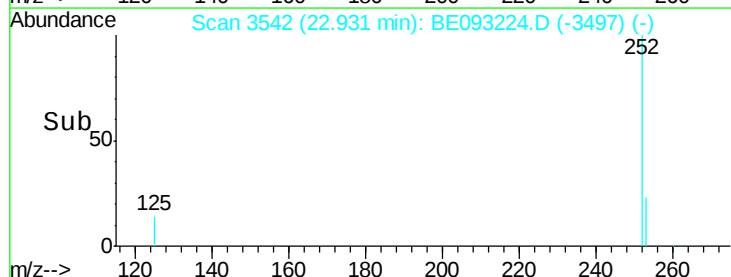
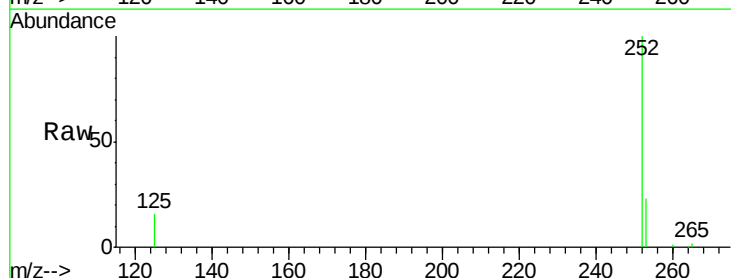
RT: 22.93 min Scan# 3542

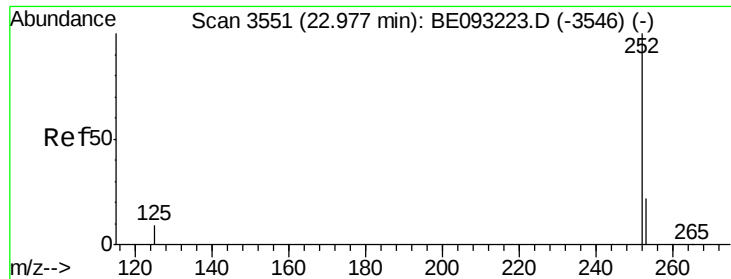
Delta R.T. 0.00 min

Lab File: BE093224.D

Acq: 16 Jun 2017 00:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 108828 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.2  | 0.0   | 64.2   |
| 125       | 15.9  | 0.0   | 35.0   |





#22

Benzo(k)fluoranthene

Concen: 0.562 ng/ul m

RT: 22.98 min Scan# 3552

Delta R.T. -0.00 min

Lab File: BE093224.D

Acq: 16 Jun 2017 00:51

Instrument :

BNA\_E

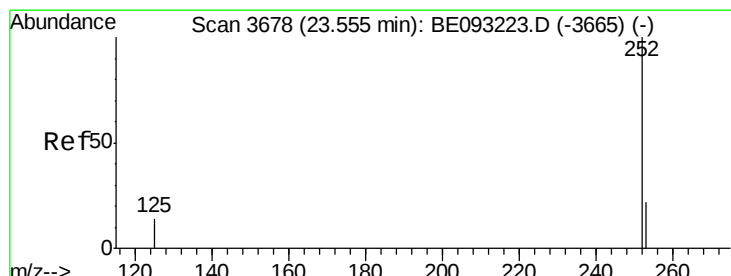
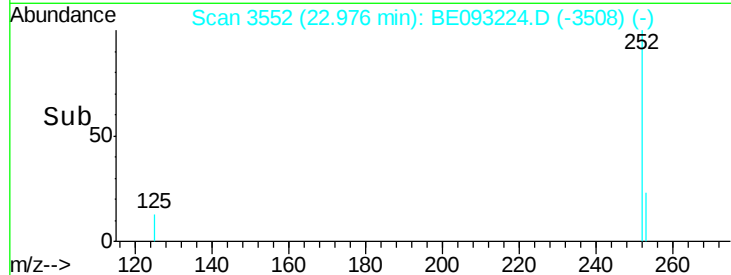
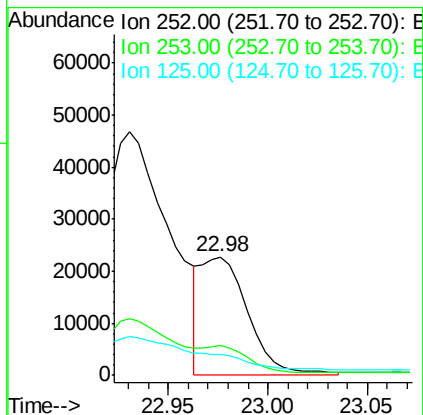
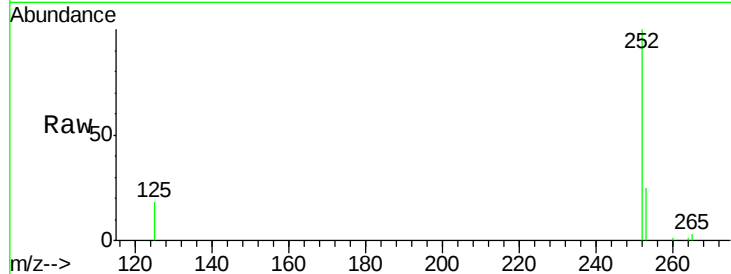
ClientSampleId :

F5C42DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 37936 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.8  | 24.5  | 36.7  |
| 125       | 18.0  | 13.7  | 20.5  |

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#23

Benzo(a)pyrene

Concen: 0.806 ng/ul

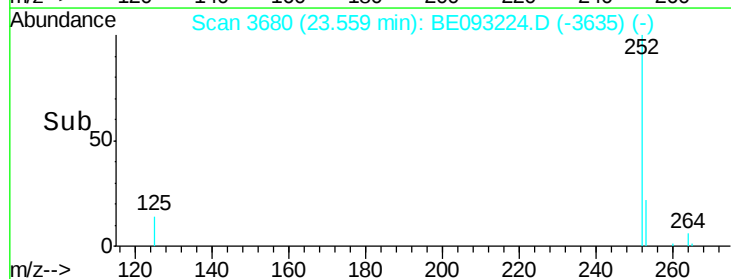
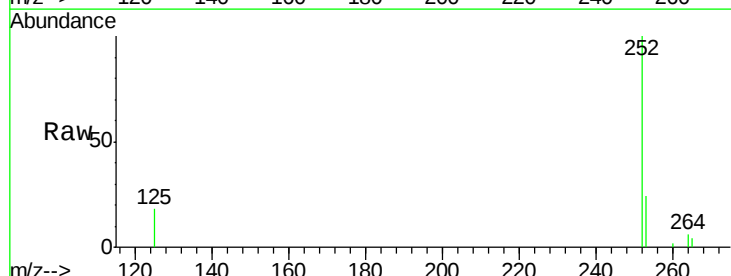
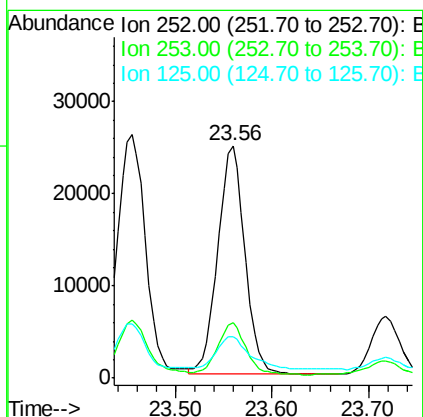
RT: 23.56 min Scan# 3680

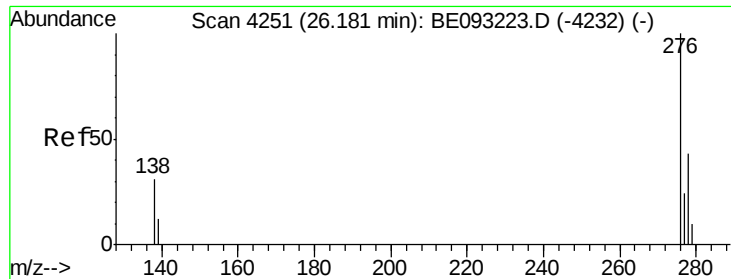
Delta R.T. 0.00 min

Lab File: BE093224.D

Acq: 16 Jun 2017 00:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 48450 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.1  | 28.5  | 42.7# |
| 125       | 18.0  | 18.1  | 27.1# |





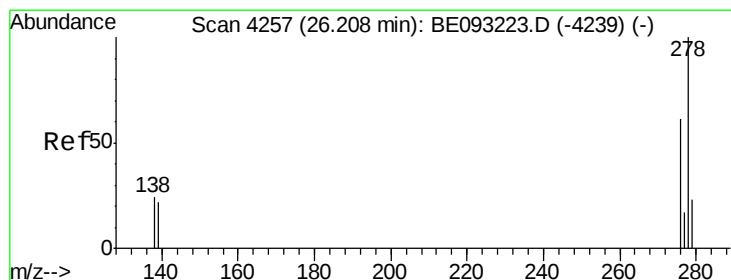
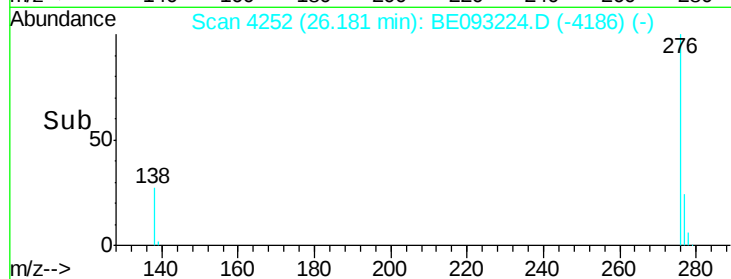
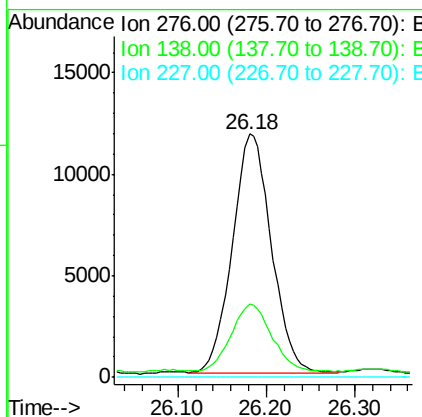
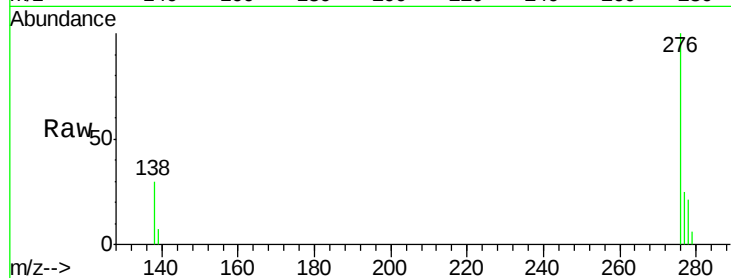
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.518 ng/u1  
 RT: 26.18 min Scan# 4252  
 Delta R.T. -0.00 min  
 Lab File: BE093224.D  
 Acq: 16 Jun 2017 00:51

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5C42DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 29.6  | 28.0       | 42.0       |
| 227     | 0.0   | 8.0        | 12.0       |

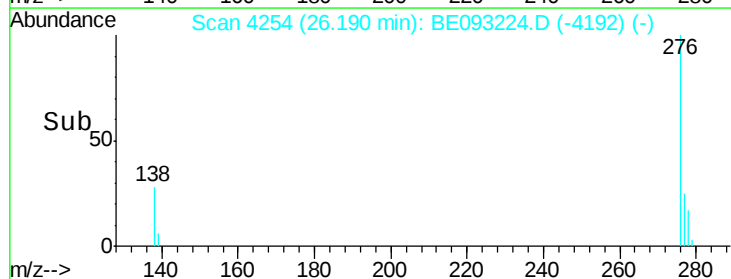
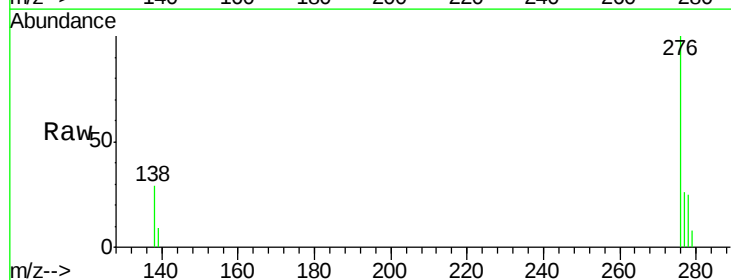
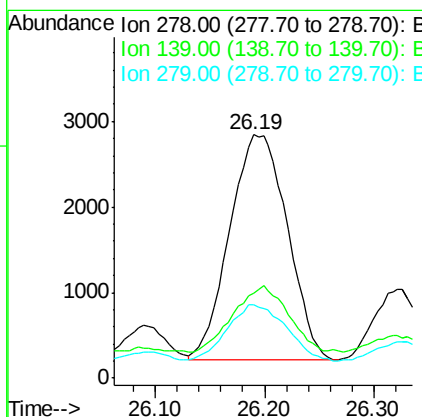
Manual Integrations  
 APPROVED

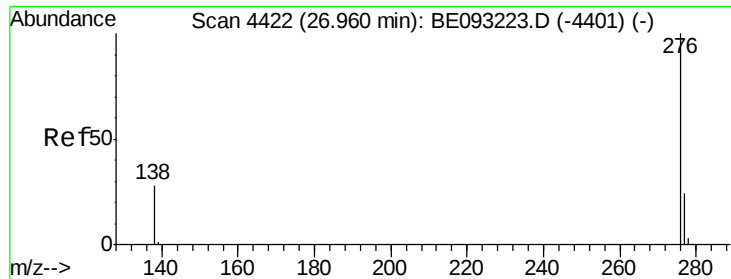
mohammad  
 6/19/2017 11:07:04 AM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.164 ng/u1  
 RT: 26.19 min Scan# 4254  
 Delta R.T. -0.02 min  
 Lab File: BE093224.D  
 Acq: 16 Jun 2017 00:51

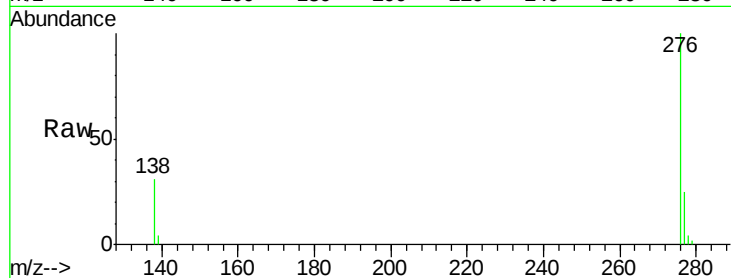
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 278     | 100   |            |            |
| 139     | 34.6  | 17.4       | 26.0       |
| 279     | 30.0  | 25.9       | 38.9       |





#26  
 Benzo(g,h,i)perylene  
 Concen: 0.492 ng/ul  
 RT: 26.96 min Scan# 4422  
 Delta R.T. -0.00 min  
 Lab File: BE093224.D  
 Acq: 16 Jun 2017 00:51

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5C42DL



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 29393 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 31.2  | 21.8  | 32.8  |
| 277       | 25.3  | 20.5  | 30.7  |

Manual Integrations  
 APPROVED

mohammad  
 6/19/2017 11:07:04 AM

