

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061417\  
 Data File : BE093183.D  
 Acq On : 14 Jun 2017 23:26  
 Operator : SJ/MA  
 Sample : I3520-19  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5B71

Manual Integrations  
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mohammad  
 6/15/2017 3:53:37 PM

Quant Time: Jun 15 04:27:14 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 15 03:59:13 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.74  | 152  | 3467     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.52 | 136  | 18153    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.37 | 164  | 11533    | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.10 | 188  | 27446    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.26 | 240  | 28547    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.67 | 264  | 23495m   | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152  | 5532     | 0.21   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.13 | 212  | 15450    | 0.21   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.57 | 128  | 18003    | 0.400  | ng/ul# | 92       |
| 5) 2-Methylnaphthalene      | 12.18 | 142  | 4261     | 0.138  | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.09 | 152  | 53223    | 1.075  | ng/ul  | 96       |
| 8) Acenaphthene             | 14.43 | 153  | 2986     | 0.075  | ng/ul  | 99       |
| 9) Fluorene                 | 15.42 | 166  | 2419     | 0.052  | ng/ul# | 87       |
| 12) Phenanthrene            | 17.14 | 178  | 34179    | 0.453  | ng/ul# | 88       |
| 13) Anthracene              | 17.22 | 178  | 59372    | 0.903  | ng/ul# | 86       |
| 15) Fluoranthene            | 19.16 | 202  | 202320   | 2.185  | ng/ul  | 83       |
| 17) Pyrene                  | 19.52 | 202  | 308205   | 3.661  | ng/ul# | 83       |
| 18) Benzo(a)anthracene      | 21.24 | 228  | 212202   | 2.787  | ng/ul# | 84       |
| 19) Chrysene                | 21.29 | 228  | 267677   | 3.389  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.93 | 252  | 557217   | 7.815  | ng/ul  | 86       |
| 22) Benzo(k)fluoranthene    | 22.98 | 252  | 207366m  | 2.738  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.56 | 252  | 300028m  | 4.450  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 26.18 | 276  | 230796m  | 2.957  | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 26.19 | 278  | 59267m   | 0.902  | ng/ul  |          |
| 26) Benzo(g,h,i)perylene    | 26.96 | 276  | 194030   | 2.898  | ng/ul  | 97       |

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

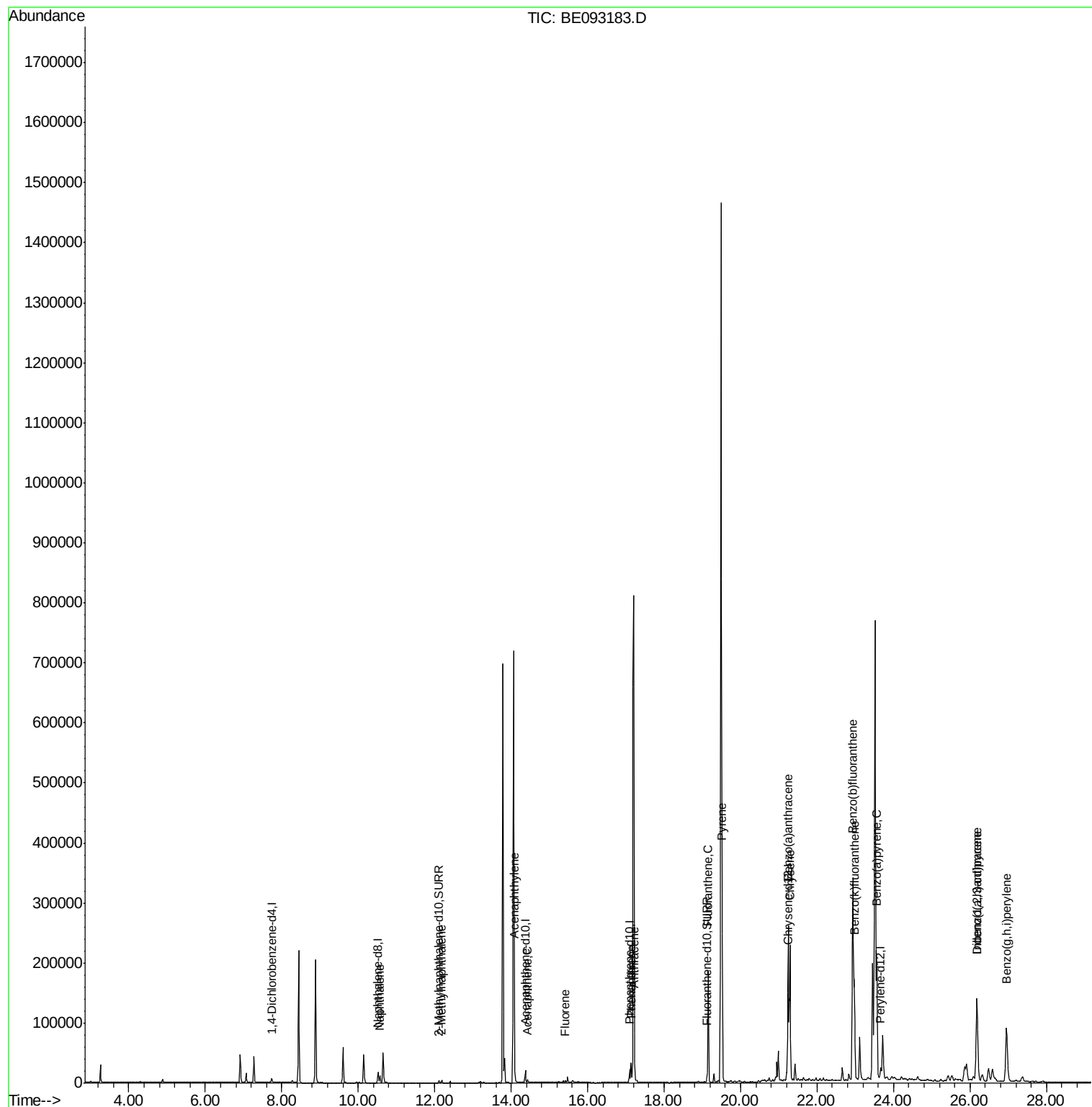
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061417\  
Data File : BE093183.D  
Acq On : 14 Jun 2017 23:26  
Operator : SJ/MA  
Sample : I3520-19  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

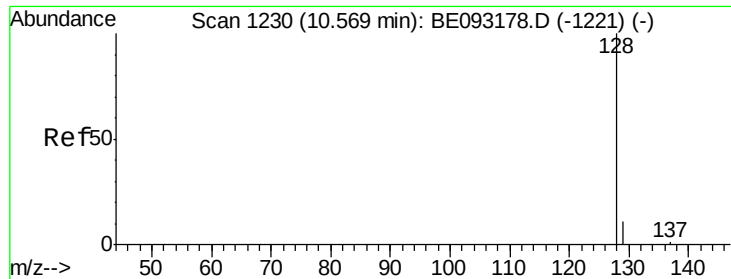
Instrument :  
BNA\_E  
ClientSampleId :  
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Quant Time: Jun 15 04:27:14 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 15 03:59:13 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.400 ng/ul

RT: 10.57 min Scan# 1230

Delta R.T. -0.00 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

Instrument :

BNA\_E

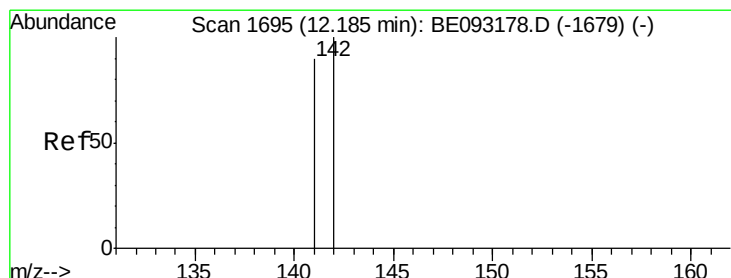
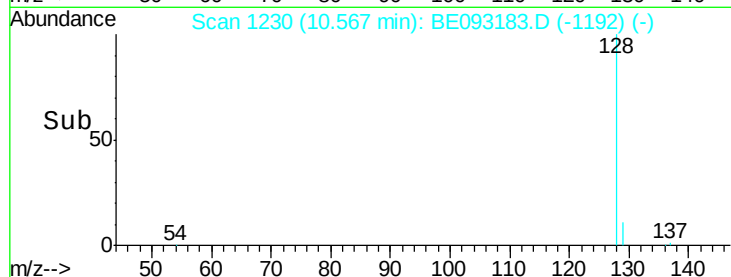
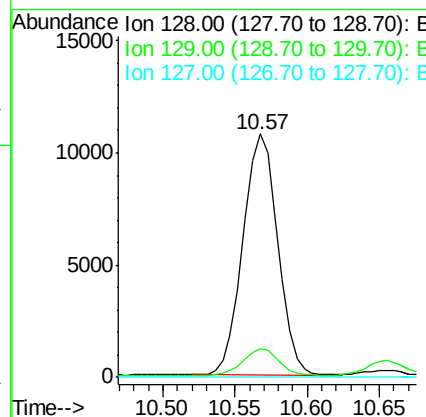
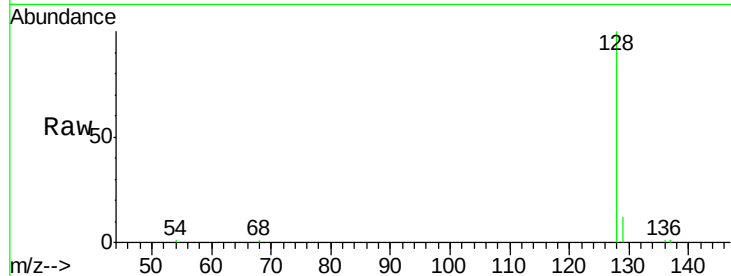
ClientSampleId :

F5B71

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 18003 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.9  | 11.3  | 16.9  |
| 127       | 0.0   | 4.0   | 6.0   |

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#5

2-Methylnaphthalene

Concen: 0.138 ng/ul

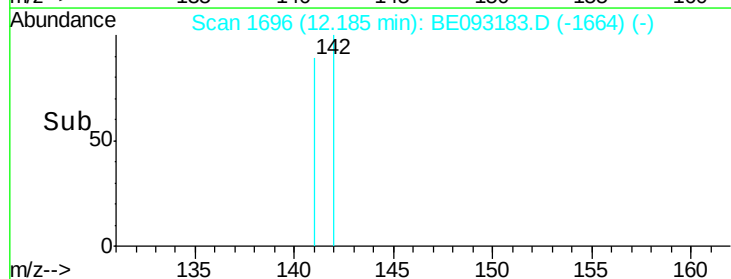
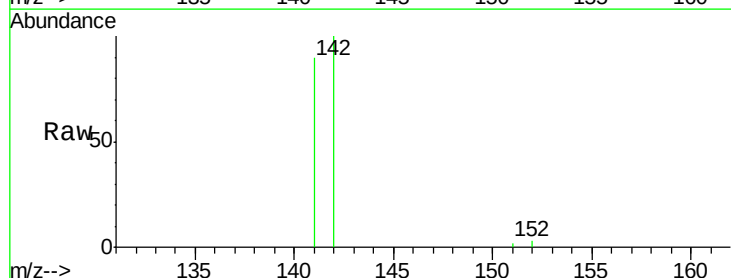
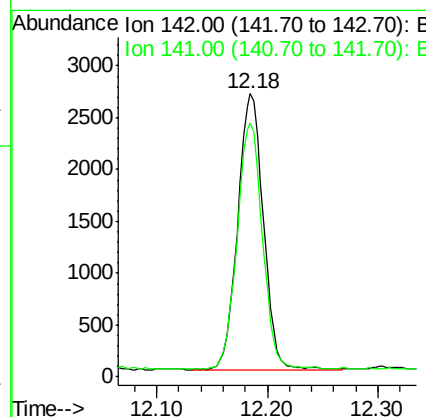
RT: 12.18 min Scan# 1696

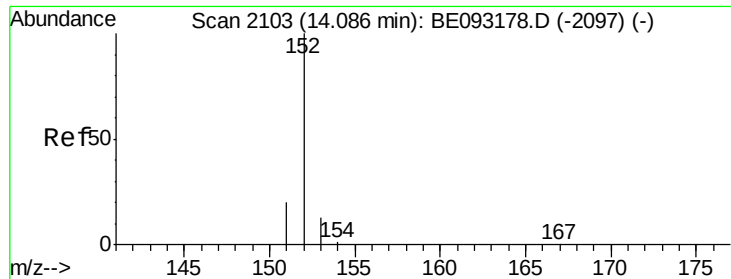
Delta R.T. -0.00 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 4261  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 88.7  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 1.075 ng/ul

RT: 14.09 min Scan# 2104

Delta R.T. -0.00 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

Instrument :

BNA\_E

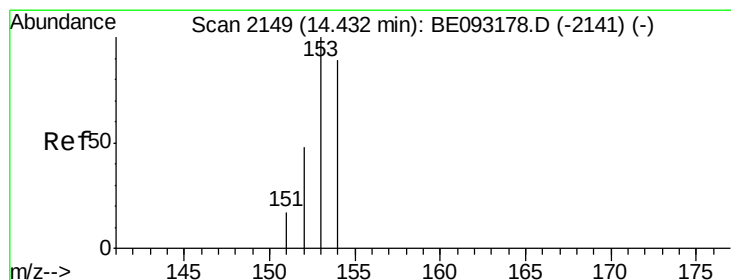
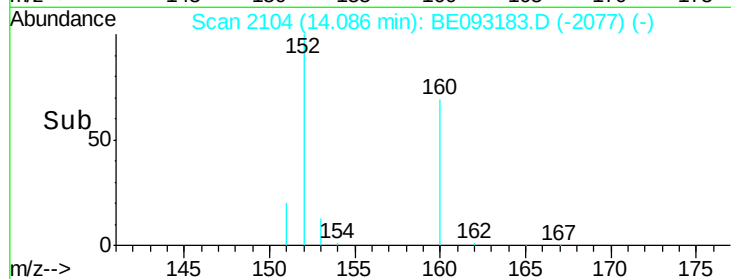
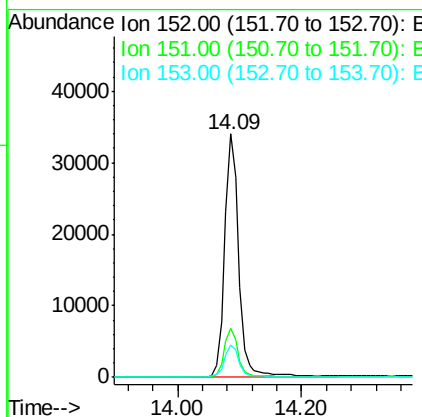
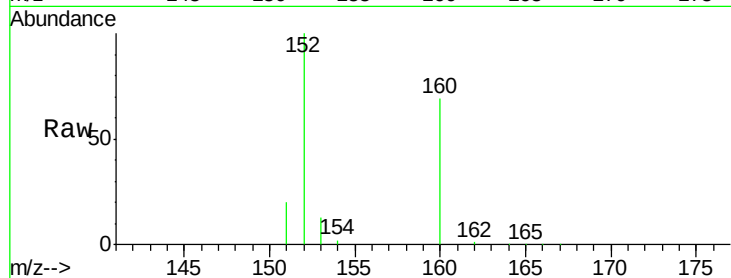
ClientSampleId :

F5B71

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 53223 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.4  | 17.1  | 25.7  |
| 153       | 13.4  | 12.8  | 19.2  |

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#8

Acenaphthene

Concen: 0.075 ng/ul

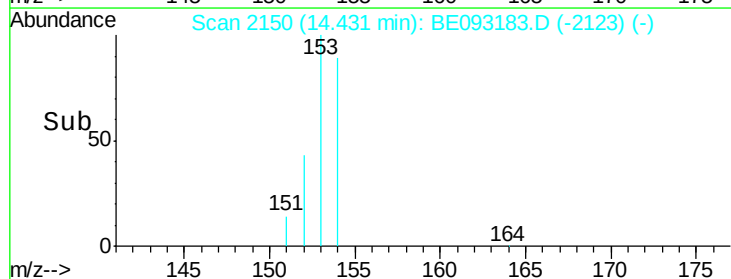
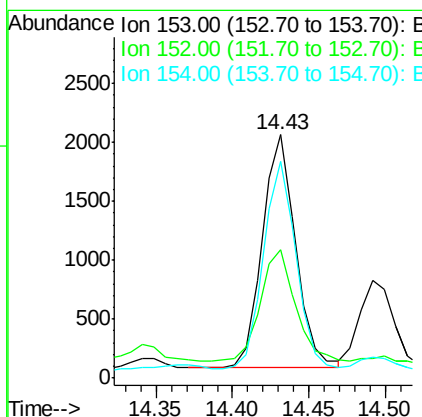
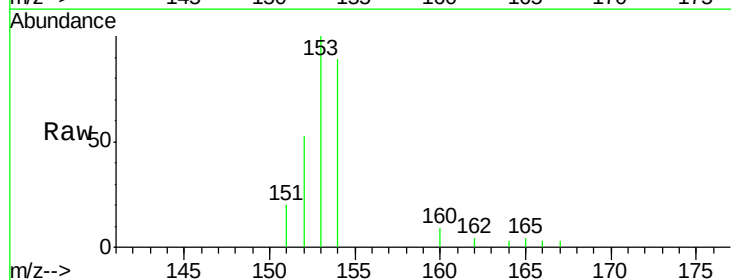
RT: 14.43 min Scan# 2150

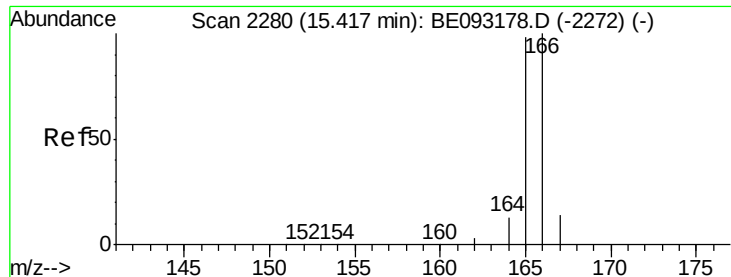
Delta R.T. -0.00 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 2986  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 52.9  | 40.3  | 60.5  |
| 154       | 89.0  | 71.4  | 107.2 |





#9

Fluorene

Concen: 0.052 ng/ul

RT: 15.42 min Scan# 2281

Delta R.T. -0.00 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

Instrument :

BNA\_E

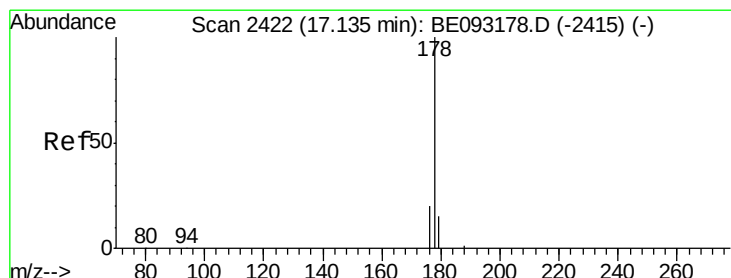
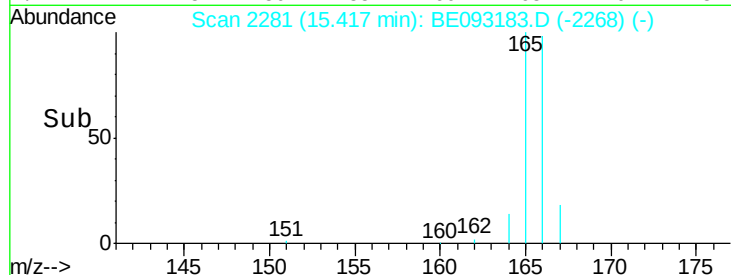
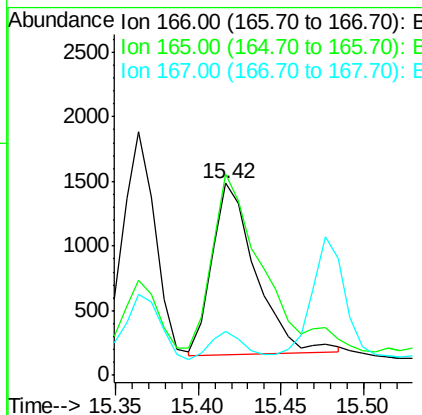
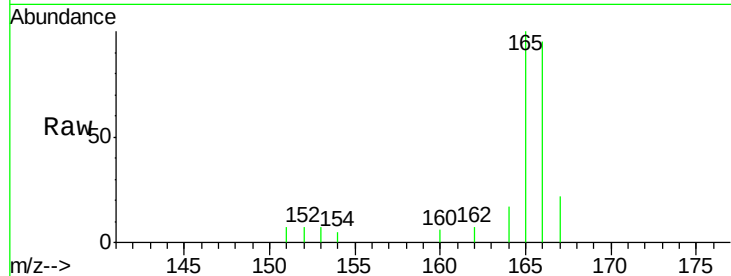
ClientSampleId :

F5B71

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 2419  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 105.1 | 73.4  | 110.2 |
| 167       | 23.1  | 14.6  | 22.0  |

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#12

Phenanthrene

Concen: 0.453 ng/ul

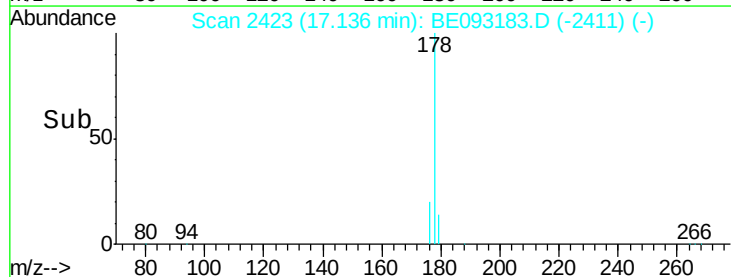
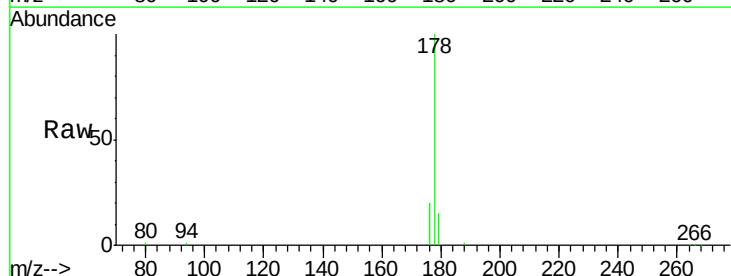
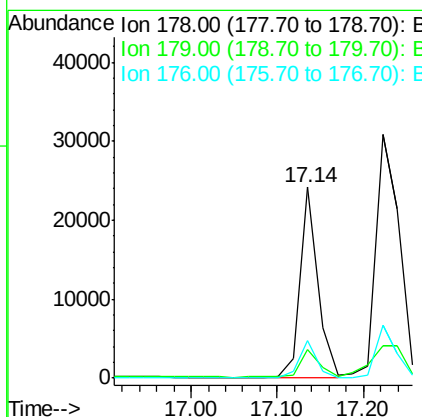
RT: 17.14 min Scan# 2423

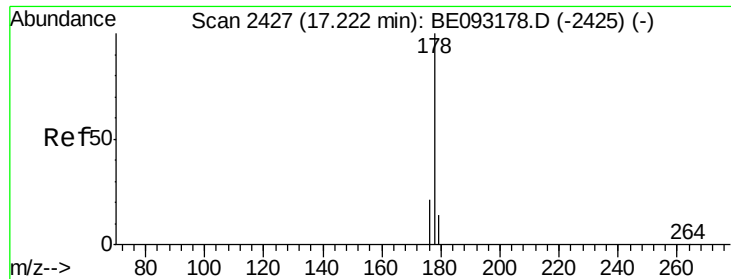
Delta R.T. 0.00 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 34179 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 14.9  | 18.4  | 27.6  |
| 176       | 19.9  | 13.6  | 20.4  |





#13

Anthracene

Concen: 0.903 ng/ul

RT: 17.22 min Scan# 2428

Delta R.T. 0.00 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

Instrument :

BNA\_E

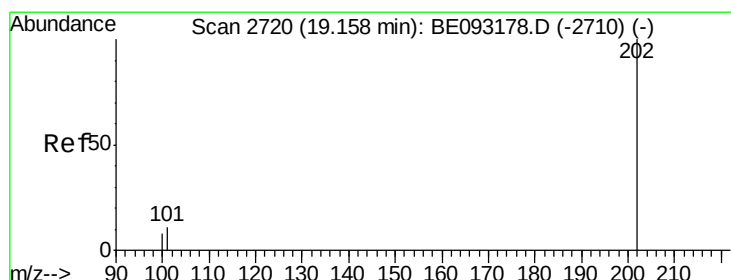
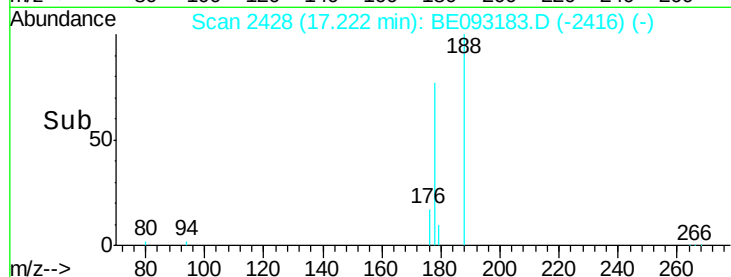
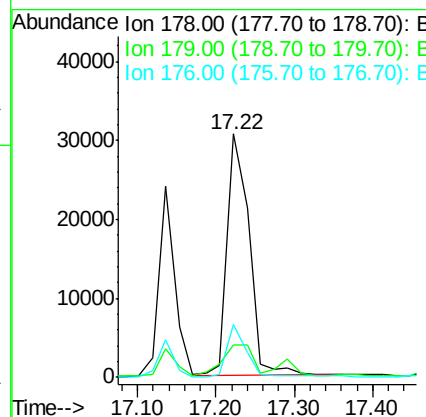
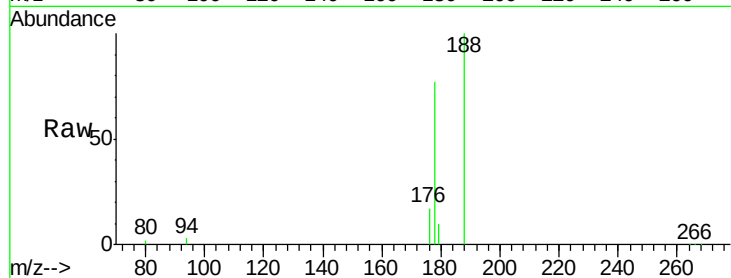
ClientSampleId :

F5B71

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 59372 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 13.4  | 18.1  | 27.1# |
| 176       | 21.7  | 14.7  | 22.1  |

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#15

Fluoranthene

Concen: 2.185 ng/ul

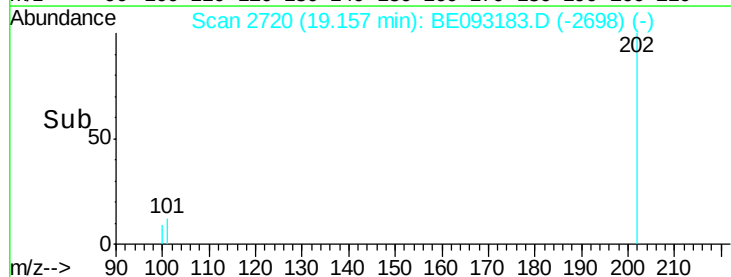
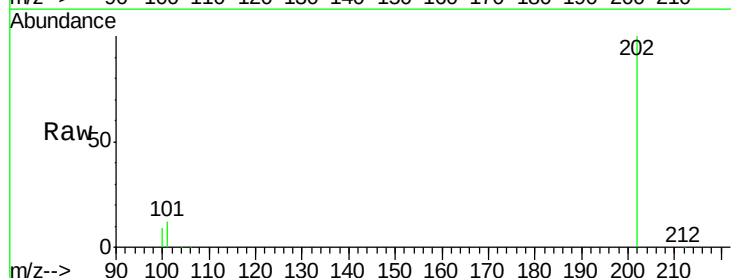
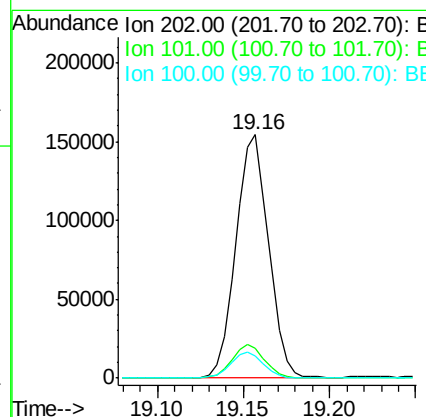
RT: 19.16 min Scan# 2720

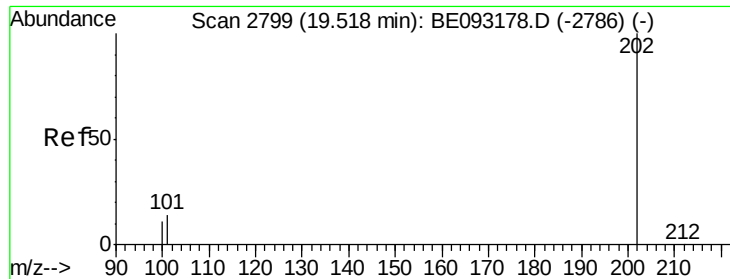
Delta R.T. -0.00 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 202320 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.1  | 0.0   | 30.3   |
| 100       | 8.9   | 0.0   | 39.5   |





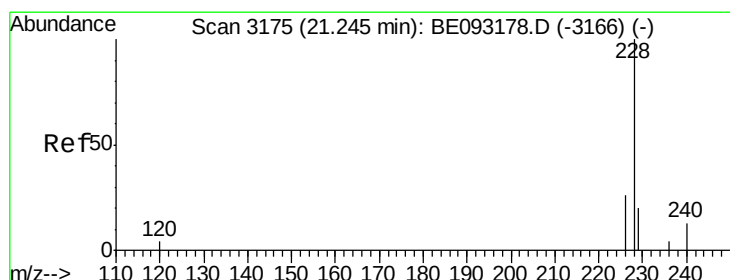
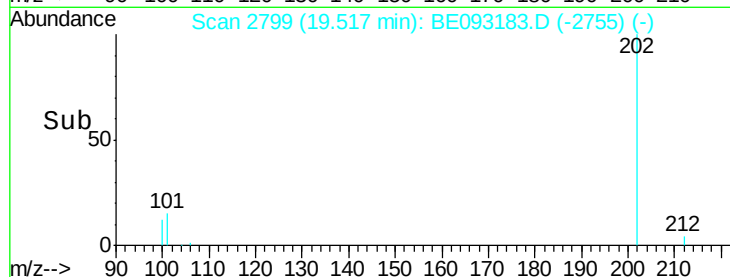
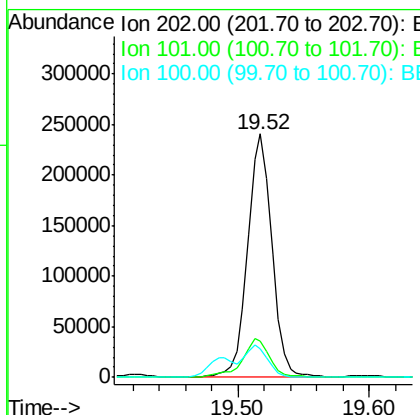
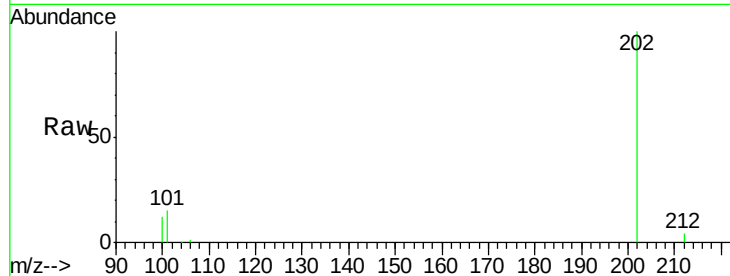
#17  
**Pyrene**  
 Concen: 3.661 ng/ul  
 RT: 19.52 min Scan# 2799  
 Delta R.T. -0.00 min  
 Lab File: BE093183.D  
 Acq: 14 Jun 2017 23:26

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5B71

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 14.6  | 18.2       | 27.4#      |
| 100     | 11.7  | 15.6       | 23.4#      |

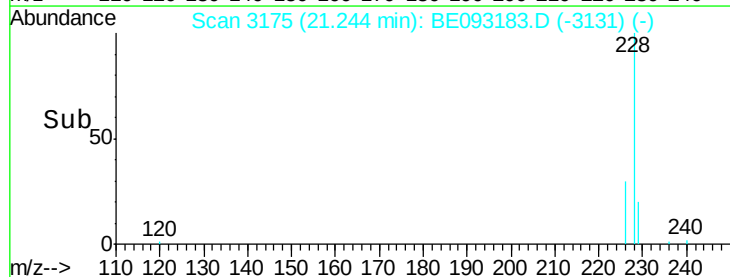
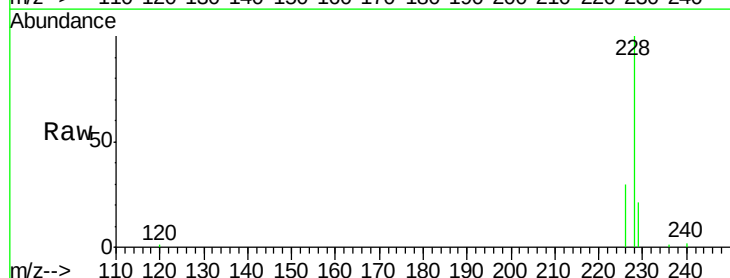
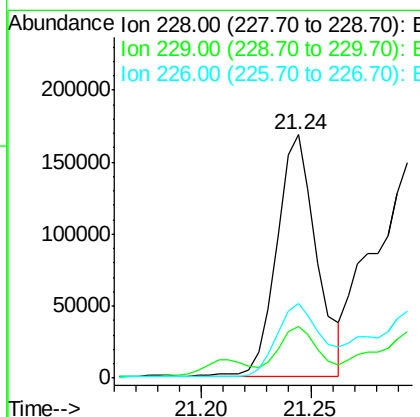
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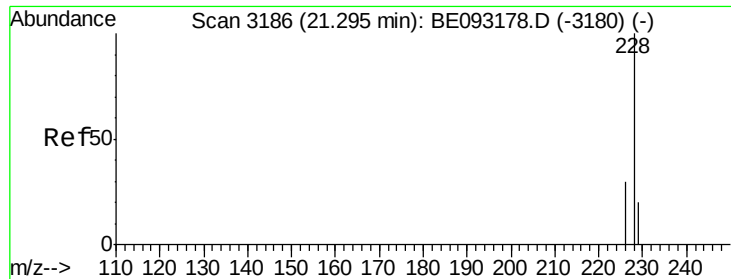
mohammad  
 6/15/2017 3:53:37 PM



#18  
**Benzo(a)anthracene**  
 Concen: 2.787 ng/ul  
 RT: 21.24 min Scan# 3175  
 Delta R.T. -0.00 min  
 Lab File: BE093183.D  
 Acq: 14 Jun 2017 23:26

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 21.2  | 22.8       | 34.2#      |
| 226     | 30.5  | 17.0       | 25.6#      |





#19

Chrysene

Concen: 3.389 ng/ul

RT: 21.29 min Scan# 3186

Delta R.T. -0.00 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

Instrument :

BNA\_E

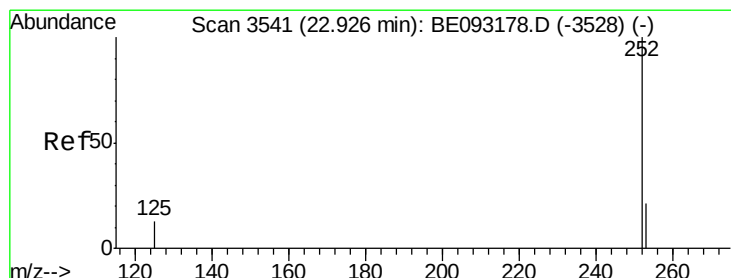
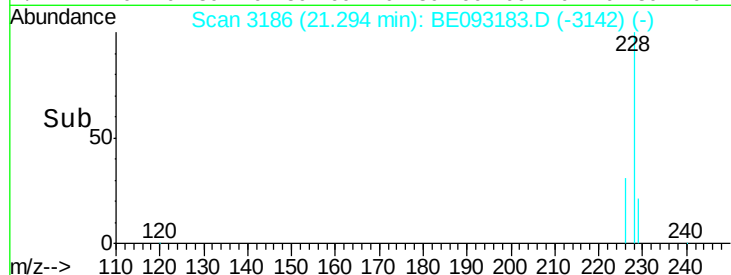
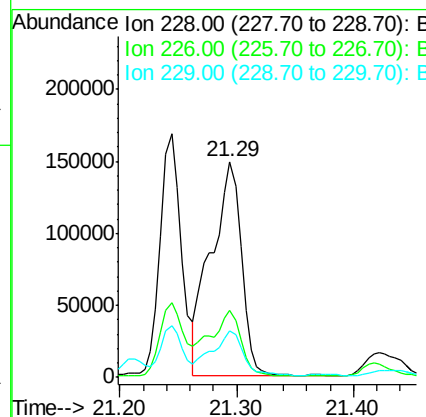
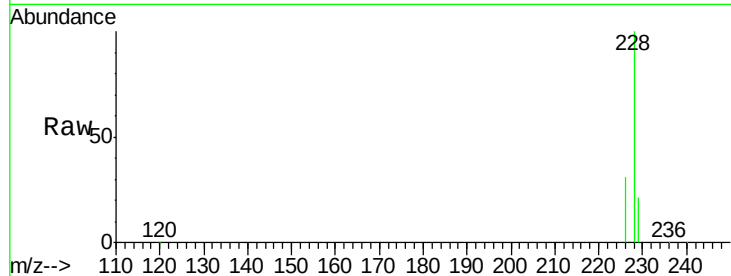
ClientSampleId :

F5B71

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 267677 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.0  | 23.4  | 35.0   |
| 229       | 21.5  | 17.7  | 26.5   |

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#21

Benzo(b)fluoranthene

Concen: 7.815 ng/ul

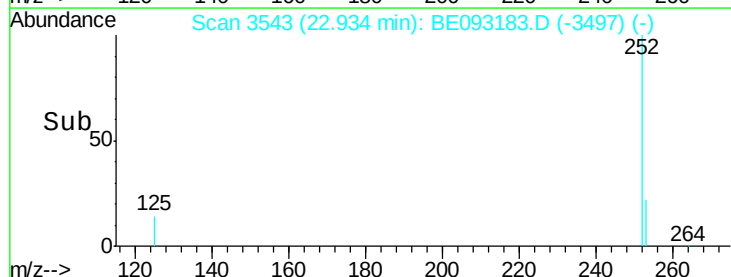
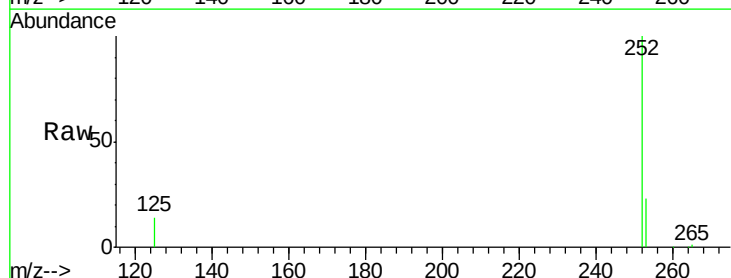
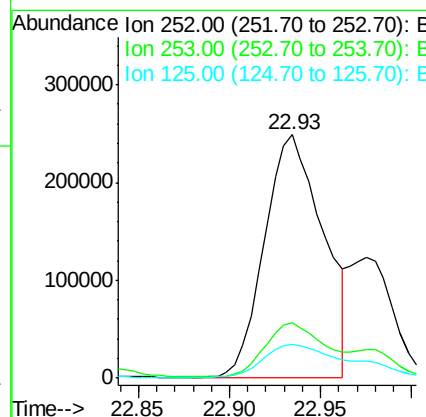
RT: 22.93 min Scan# 3543

Delta R.T. 0.01 min

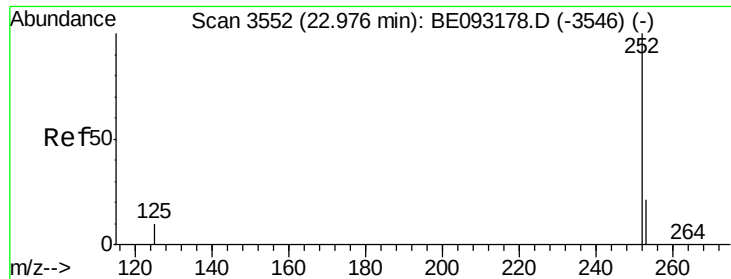
Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 557217 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.6  | 0.0   | 64.2   |
| 125       | 14.1  | 0.0   | 35.0   |







#22

Benzo(k)fluoranthene

Concen: 2.738 ng/ul m

RT: 22.98 min Scan# 3552

Delta R.T. -0.00 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

Instrument :

BNA\_E

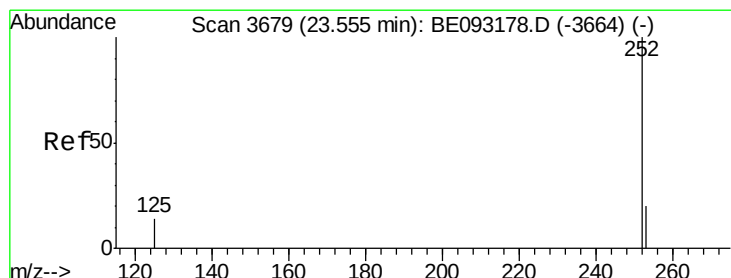
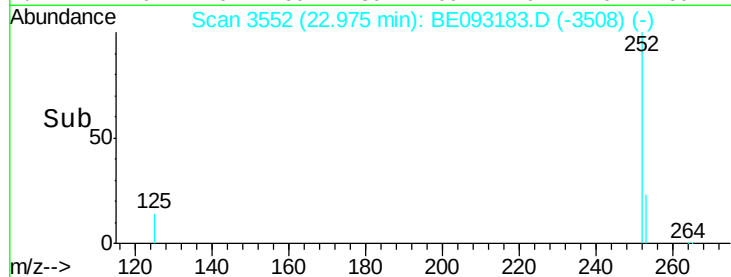
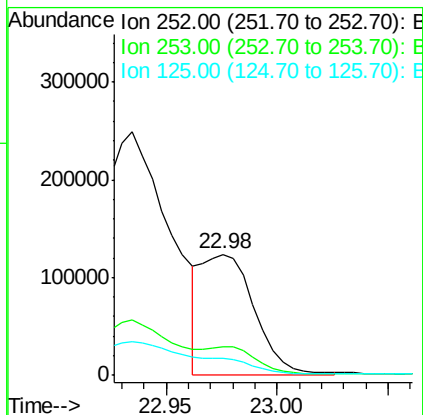
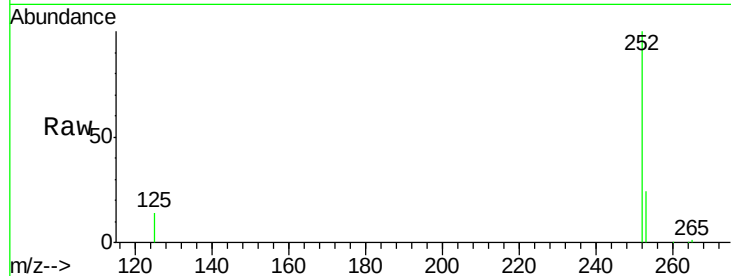
ClientSampleId :

F5B71

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 24.5  | 36.7# |
| 125     | 14.3  | 13.7  | 20.5  |

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#23

Benzo(a)pyrene

Concen: 4.450 ng/ul m

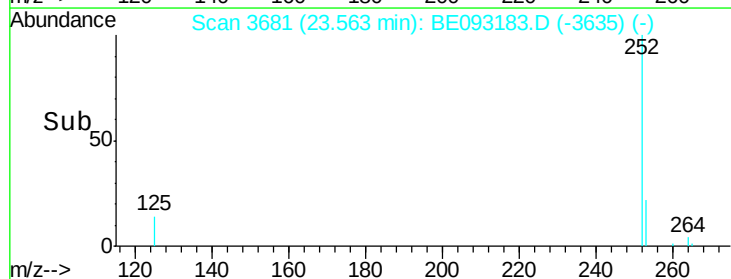
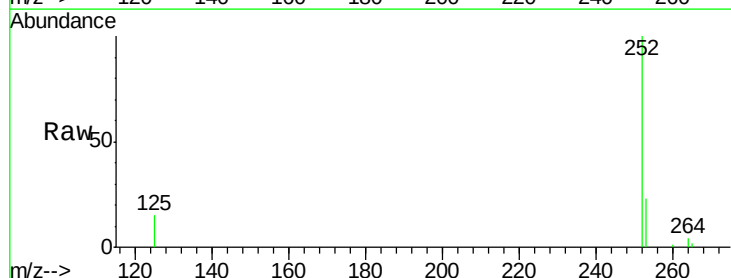
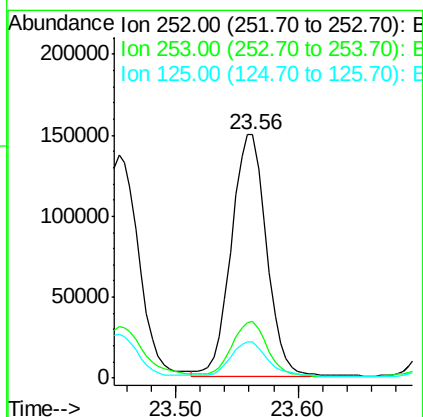
RT: 23.56 min Scan# 3681

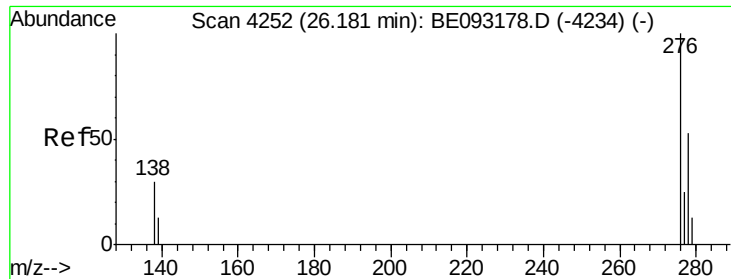
Delta R.T. 0.01 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 28.5  | 42.7# |
| 125     | 14.9  | 18.1  | 27.1# |





#24

Indeno(1,2,3-cd)pyrene

Concen: 2.957 ng/ul m

RT: 26.18 min Scan# 4252

Delta R.T. 0.00 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

Instrument :

BNA\_E

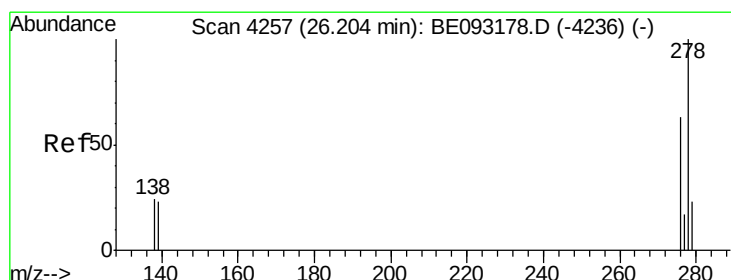
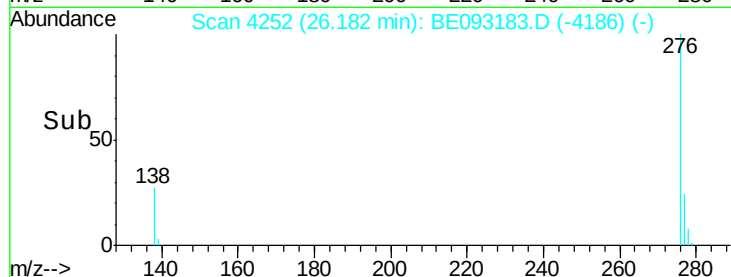
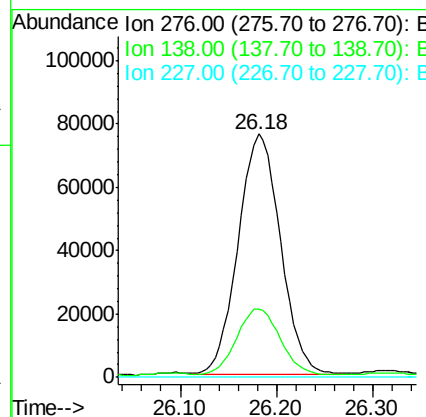
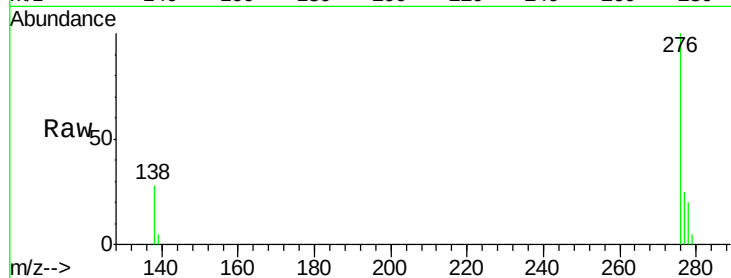
ClientSampled :

F5B71

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 230796 |       |       |
| 138     | 3.4   | 28.0   | 42.0# |       |
| 227     | 0.0   | 8.0    | 12.0# |       |

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#25

Dibenzo(a,h)anthracene

Concen: 0.902 ng/ul m

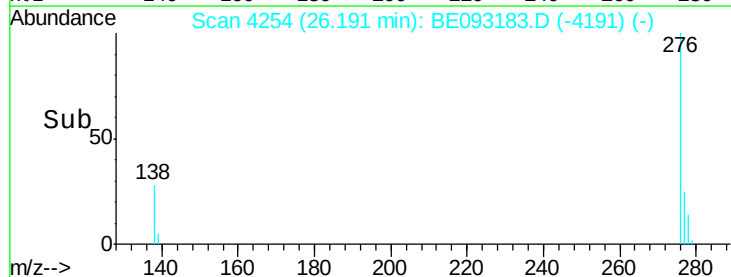
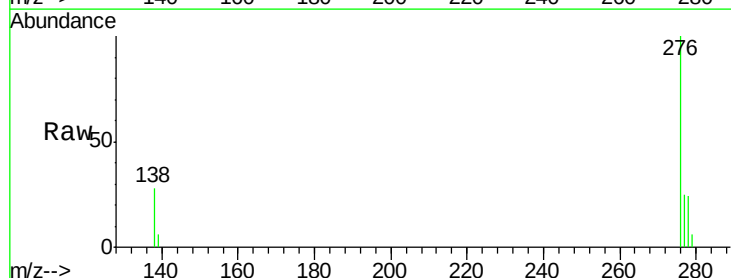
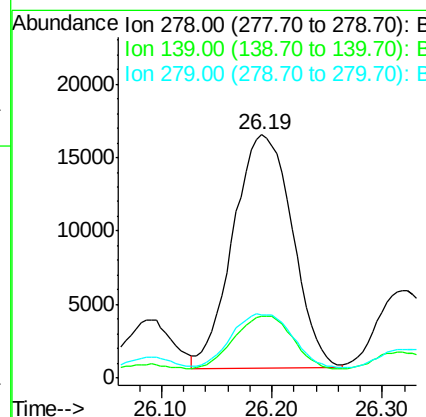
RT: 26.19 min Scan# 4254

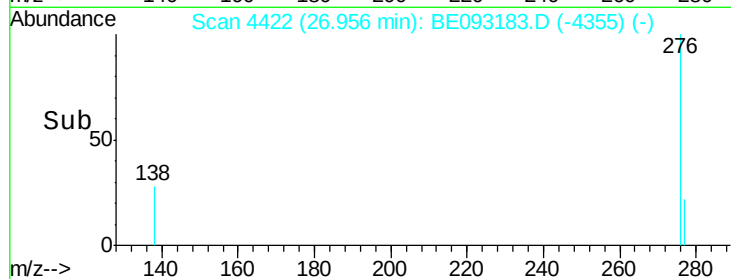
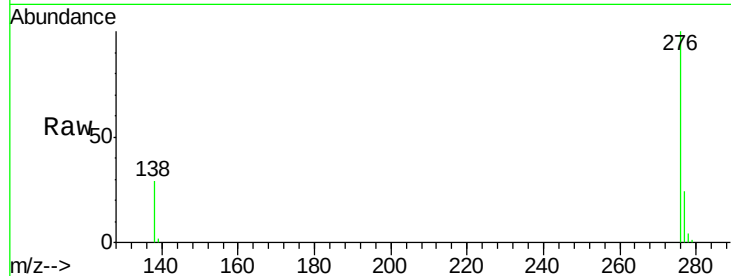
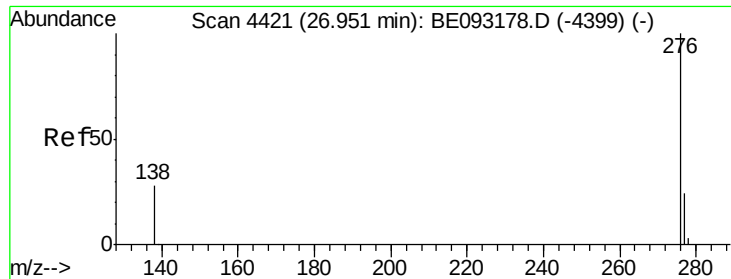
Delta R.T. -0.01 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 278     | 100   | 59267 |       |       |
| 139     | 25.4  | 17.4  | 26.0  |       |
| 279     | 26.1  | 25.9  | 38.9  |       |





#26

Benzo(g,h,i)perylene

Concen: 2.898 ng/ul

RT: 26.96 min Scan# 4422

Delta R.T. 0.01 min

Lab File: BE093183.D

Acq: 14 Jun 2017 23:26

Instrument :

BNA\_E

ClientSampleId :

F5B71

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 276 | 100  |       | 194030 |       |       |
| 138 | 28.9 | 21.8  | 32.8   |       |       |
| 277 | 24.4 | 20.5  | 30.7   |       |       |

Manual Integrations  
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