

Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\  
 Data File : BE091066.D  
 Acq On : 5 Nov 2015 12:42  
 Operator : UM/NP  
 Sample : G4273-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AN8

Manual Integrations  
 APPROVED

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 11/6/2015 3:45:13 PM

Quant Time: Nov 06 06:05:48 2015  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 06 05:41:57 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response  | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|-----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.89  | 152  | 4567      | 0.40   | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 9.57  | 136  | 25367     | 0.40   | ng/ul  | 0.00     |
| 8) Acenaphthene-d10         | 13.41 | 164  | 15633     | 0.40   | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 16.14 | 188  | 35880m    | 0.40   | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 20.29 | 240  | 38798     | 0.40   | ng/ul  | 0.00     |
| 22) Perylene-d12            | 22.20 | 264  | 51981m    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |           |        |        |          |
| 2) 1,4-Dioxane-d8           | 2.92  | 96   | 26379     | 8.03   | ng/uL  | -0.03    |
| 6) 2-Methylnaphthalene-d10  | 11.07 | 152  | 9570      | 0.28   | ng/ul  | 0.00     |
| 16) Fluoranthene-d10        | 18.13 | 212  | 29514     | 0.29   | ng/ul  | 0.00     |
| Target Compounds            |       |      |           | Ovalue |        |          |
| 5) Naphthalene              | 9.61  | 128  | 52584     | 0.84   | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 11.14 | 142  | 39541     | 0.97   | ng/ul  | 99       |
| 9) Acenaphthylene           | 13.15 | 152  | 84840     | 1.09   | ng/ul  | 98       |
| 10) Acenaphthene            | 13.46 | 153  | 512621    | 9.59   | ng/ul  | 91       |
| 11) Fluorene                | 14.45 | 166  | 603221    | 8.78   | ng/ul  | 94       |
| 14) Phenanthrene            | 16.17 | 178  | 5313201m  | 12.82  | ng/ul  |          |
| 15) Anthracene              | 16.25 | 178  | 3548304   | 9.42   | ng/ul  | 98       |
| 17) Fluoranthene            | 18.16 | 202  | 11552091m | 23.82  | ng/ul  |          |
| 19) Pyrene                  | 18.55 | 202  | 8255770   | 18.73  | ng/ul# | 76       |
| 20) Benzo(a)anthracene      | 20.26 | 228  | 911735    | 9.15   | ng/ul  | 97       |
| 21) Chrysene                | 20.32 | 228  | 805264    | 7.02   | ng/ul  | 99       |
| 23) Benzo(b)fluoranthene    | 21.63 | 252  | 450935    | 2.78   | ng/ul  | 93       |
| 24) Benzo(k)fluoranthene    | 21.66 | 252  | 547979m   | 3.29   | ng/ul  |          |
| 25) Benzo(a)pyrene          | 22.10 | 252  | 586155m   | 3.92   | ng/ul  |          |
| 26) Indeno(1,2,3-cd)pyrene  | 23.84 | 276  | 1109119m  | 1.76   | ng/ul  |          |
| 27) Dibenzo(a,h)anthracene  | 23.79 | 278  | 79328m    | 0.53   | ng/ul  |          |
| 28) Benzo(g,h,i)perylene    | 24.41 | 276  | 1005271m  | 1.52   | ng/ul  |          |

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

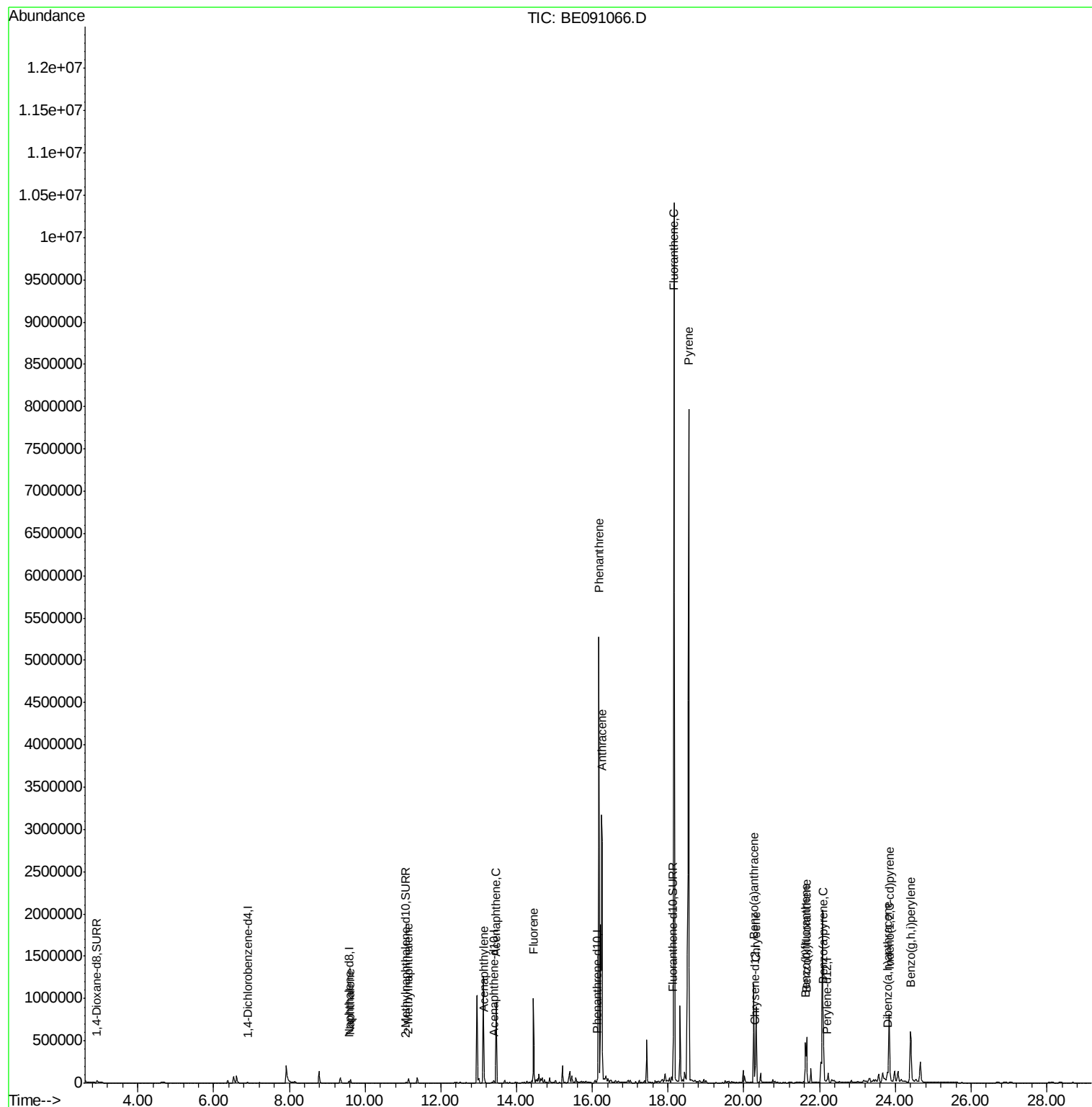
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\  
Data File : BE091066.D  
Acq On : 5 Nov 2015 12:42  
Operator : UM/NP  
Sample : G4273-03  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

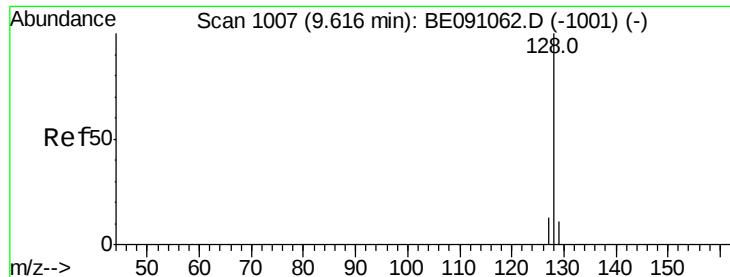
Instrument :  
BNA\_E  
ClientSampleId :  
COAN8

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Quant Time: Nov 06 06:05:48 2015  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 06 05:41:57 2015  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.84 ng/ul

RT: 9.61 min Scan# 1007

Delta R.T. -0.00 min

Lab File: BE091066.D

Acq: 5 Nov 2015 12:42

Instrument :

BNA\_E

ClientSampleId :

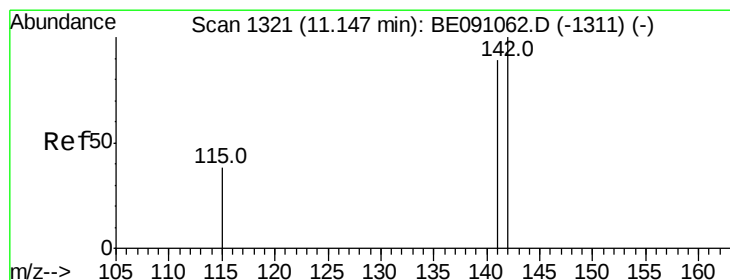
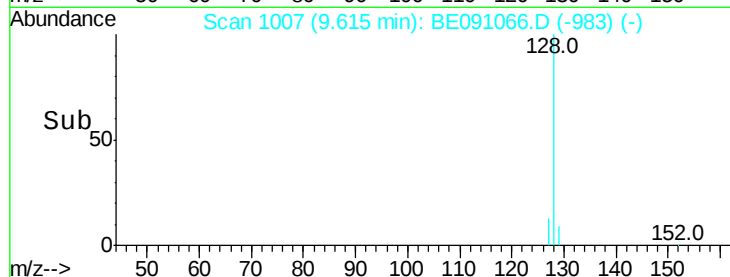
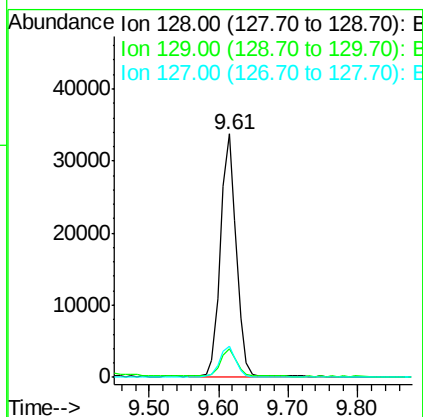
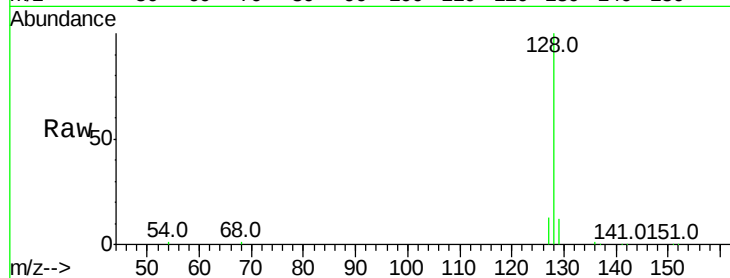
COAN8

Tot Ion:128 Resp: 52584

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 11.7  | 9.8   | 14.8  |
| 127 | 13.0  | 10.7  | 16.1  |

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#7

2-Methylnaphthalene

Concen: 0.97 ng/ul

RT: 11.14 min Scan# 1320

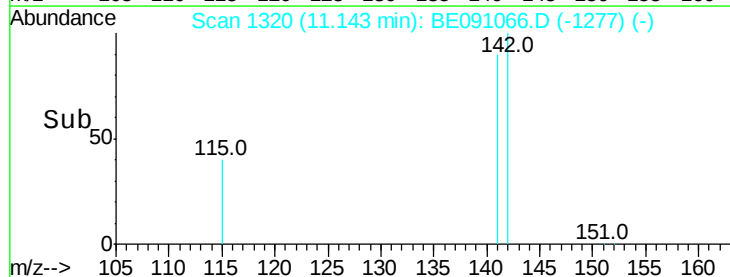
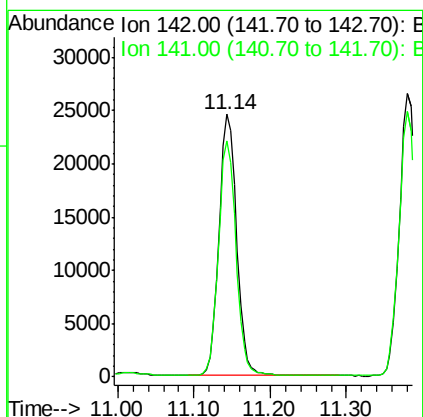
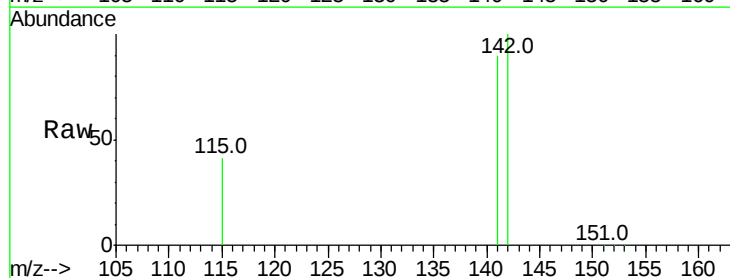
Delta R.T. -0.00 min

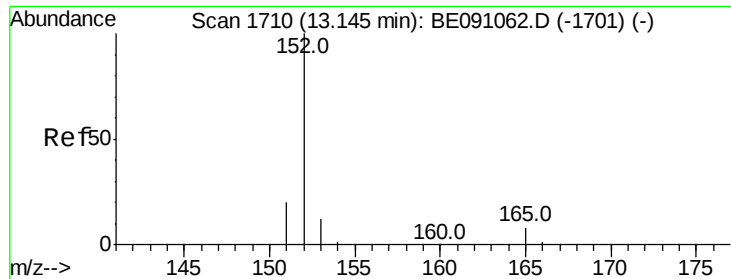
Lab File: BE091066.D

Acq: 5 Nov 2015 12:42

Tgt Ion:142 Resp: 39541

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 89.2  | 70.3  | 105.5 |





#9

Acenaphthylene

Concen: 1.09 ng/ul

RT: 13.15 min Scan# 1710

Delta R.T. 0.00 min

Lab File: BE091066.D

Acq: 5 Nov 2015 12:42

Instrument :

BNA\_E

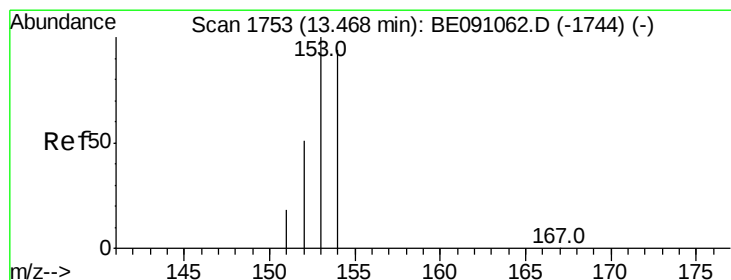
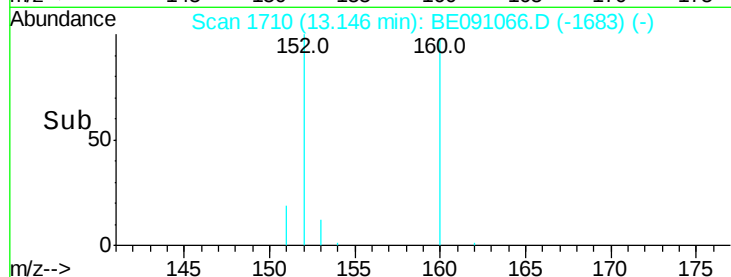
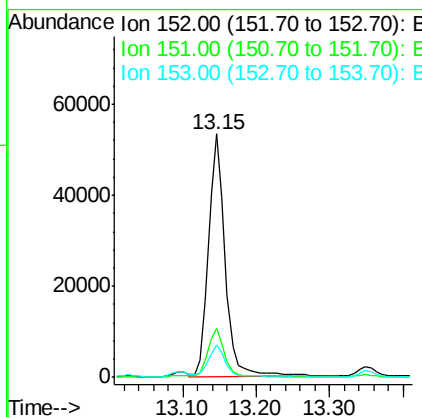
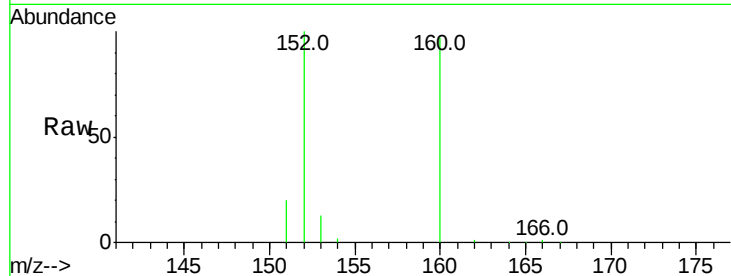
ClientSampleId :

COAN8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 84840 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.9  | 16.8  | 25.2  |
| 153       | 13.5  | 11.3  | 16.9  |

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#10

Acenaphthene

Concen: 9.59 ng/ul

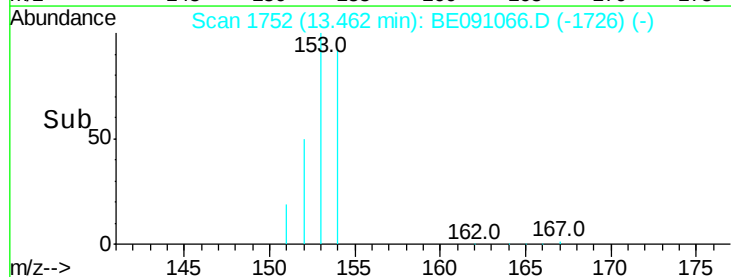
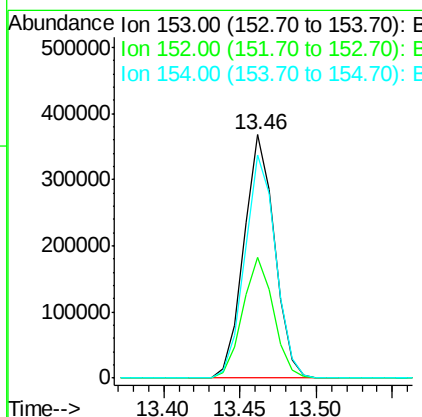
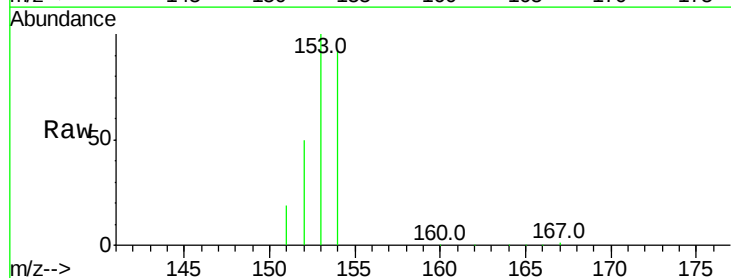
RT: 13.46 min Scan# 1752

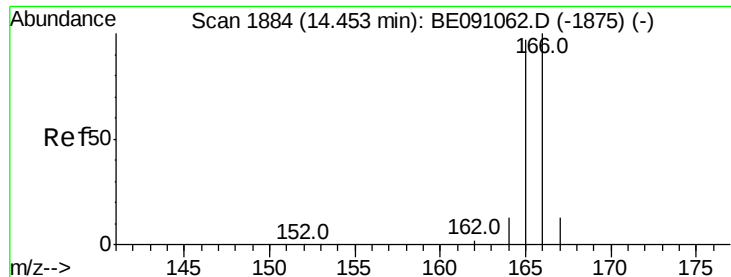
Delta R.T. -0.01 min

Lab File: BE091066.D

Acq: 5 Nov 2015 12:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 512621 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 49.8  | 42.3  | 63.5   |
| 154       | 91.6  | 64.7  | 97.1   |





#11

Fluorene

Concen: 8.78 ng/ul

RT: 14.45 min Scan# 1883

Delta R.T. -0.01 min

Lab File: BE091066.D

Acq: 5 Nov 2015 12:42

Instrument :

BNA\_E

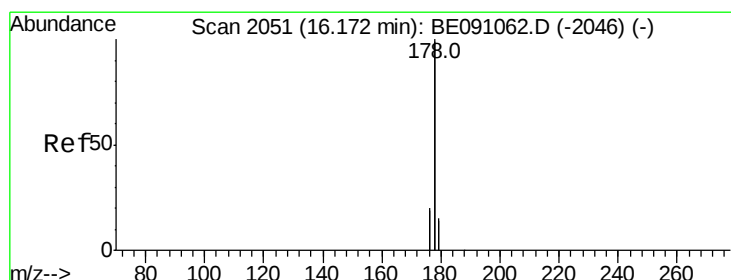
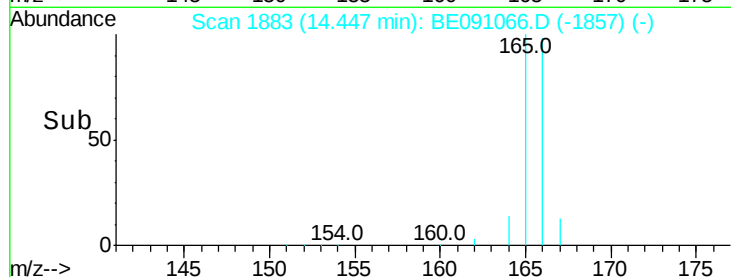
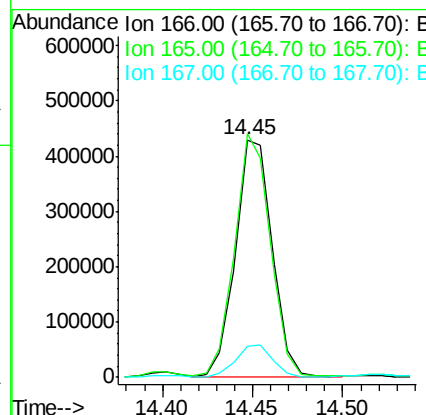
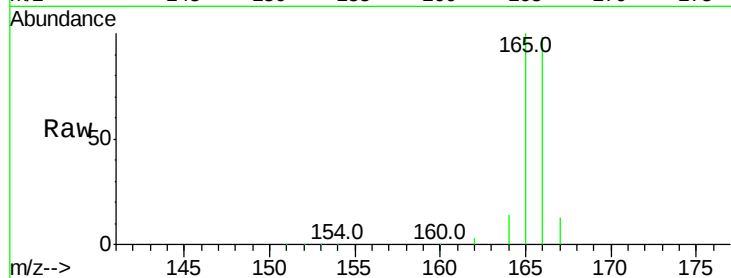
ClientSampleId :

COAN8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 166   | Resp: | 603221 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 102.5 | 87.6  | 131.4  |
| 167       | 13.3  | 11.1  | 16.7   |

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#14

Phenanthrene

Concen: 12.82 ng/ul m

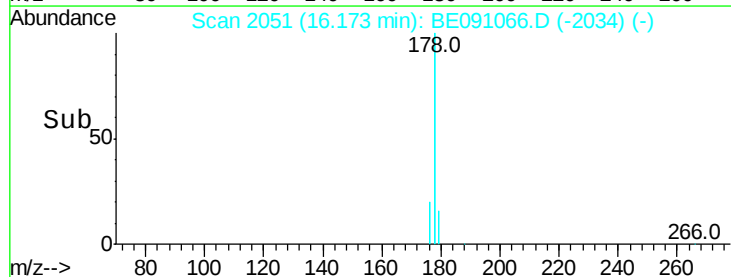
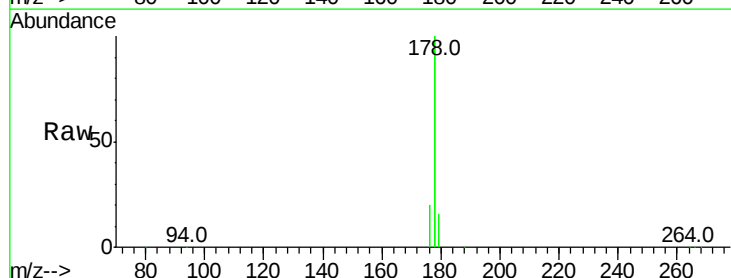
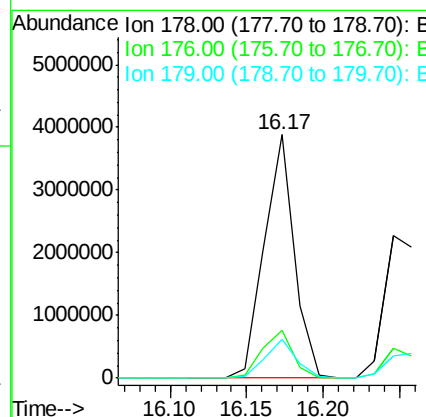
RT: 16.17 min Scan# 2051

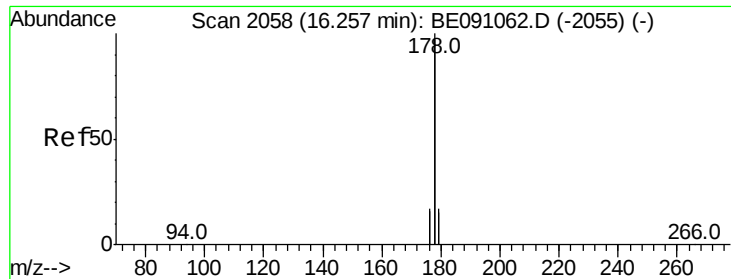
Delta R.T. 0.00 min

Lab File: BE091066.D

Acq: 5 Nov 2015 12:42

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 178   | Resp: | 5313201 |
| Ion Ratio | Lower | Upper |         |
| 178       | 100   |       |         |
| 176       | 19.6  | 16.2  | 24.4    |
| 179       | 16.1  | 12.8  | 19.2    |





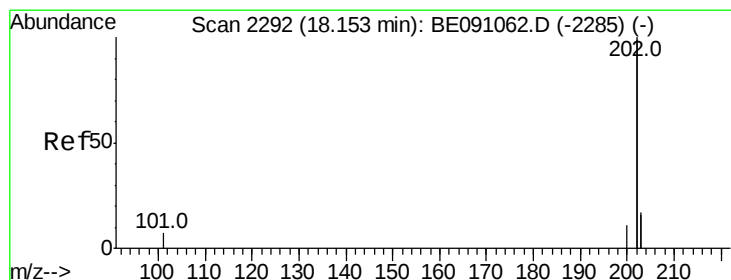
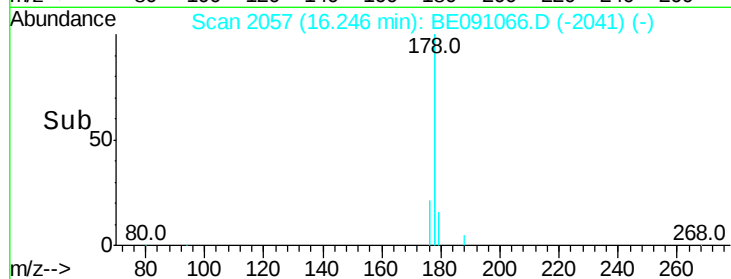
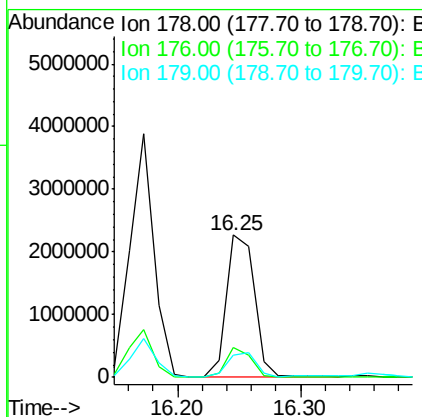
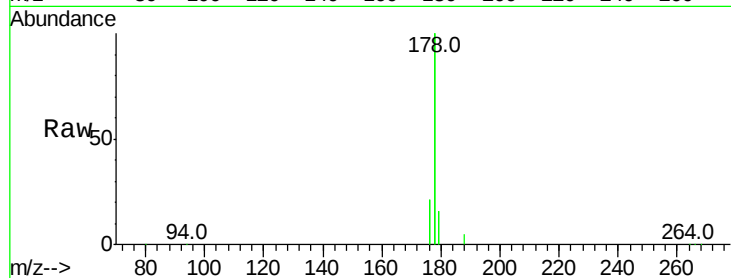
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 Anthracene  
 Concen: 9.42 ng/u1  
 RT: 16.25 min Scan# 2057  
 Delta R.T. -0.01 min  
 Lab File: BE091066.D  
 Acq: 5 Nov 2015 12:42

Instrument :  
 BNA\_E  
 ClientSampleId :  
 COAN8

Tot Ion:178 Resp: 3548304  
 Ion Ratio Lower Upper  
 178 100  
 176 20.7 15.8 23.8  
 179 15.9 13.3 19.9

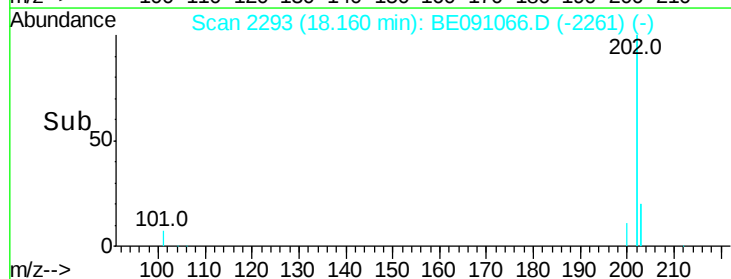
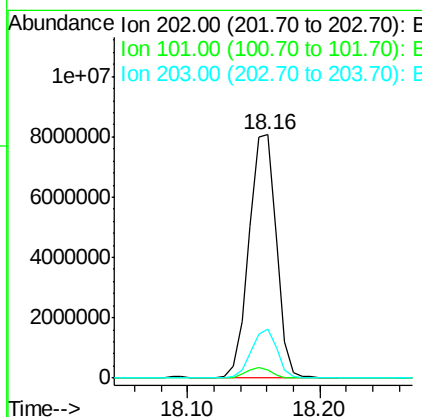
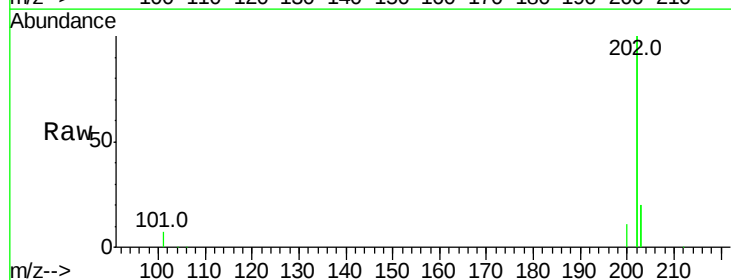
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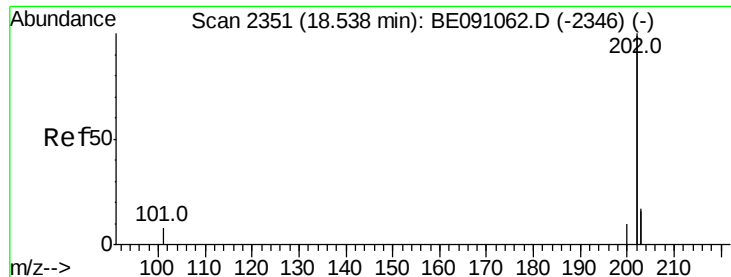
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#17  
 Fluoranthene  
 Concen: 23.82 ng/u1 m  
 RT: 18.16 min Scan# 2293  
 Delta R.T. 0.01 min  
 Lab File: BE091066.D  
 Acq: 5 Nov 2015 12:42

Tgt Ion:202 Resp:11552091  
 Ion Ratio Lower Upper  
 202 100  
 101 6.7 0.0 33.1  
 203 20.2 0.0 37.2





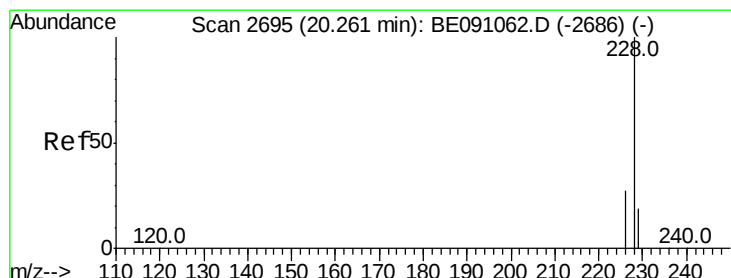
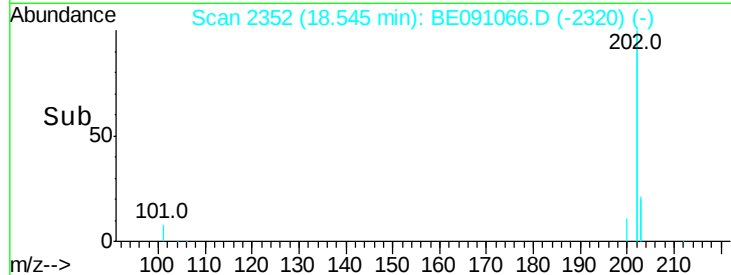
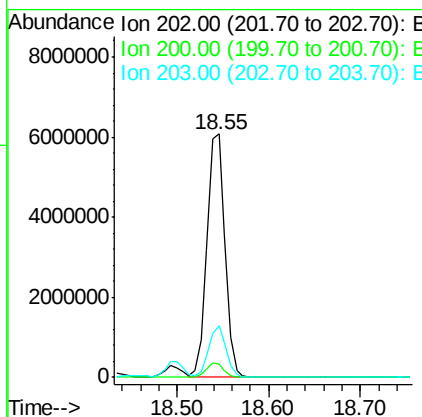
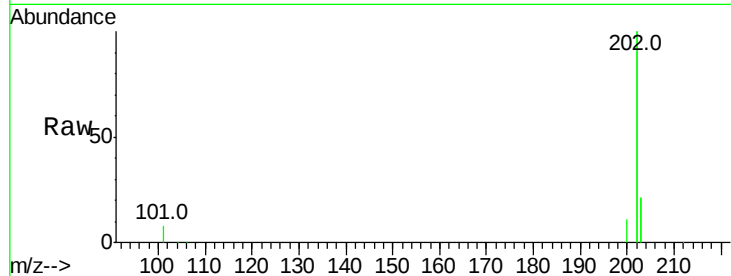
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Pvrene  
Concen: 18.73 ng/ul  
RT: 18.55 min Scan# 2352  
Delta R.T. 0.01 min  
Lab File: BE091066.D  
Acq: 5 Nov 2015 12:42

Instrument :  
BNA\_E  
ClientSampleId :  
COAN8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 5.5   | 18.0  | 27.0# |
| 203     | 21.4  | 13.8  | 20.6# |

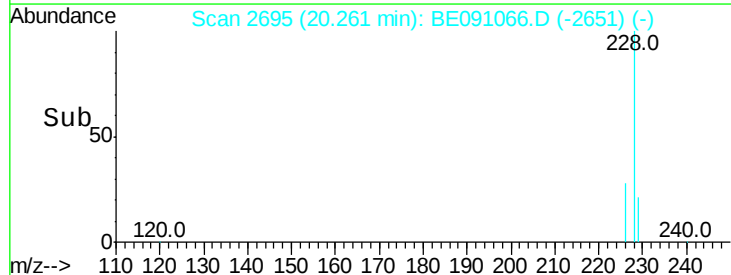
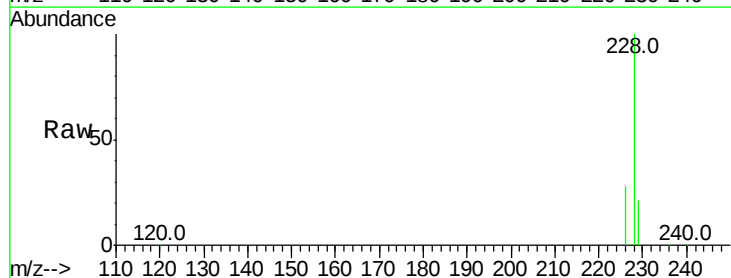
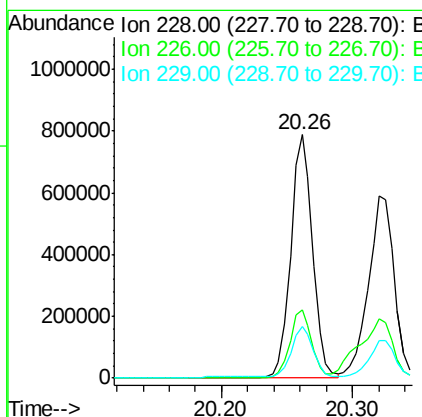
Manual Integrations  
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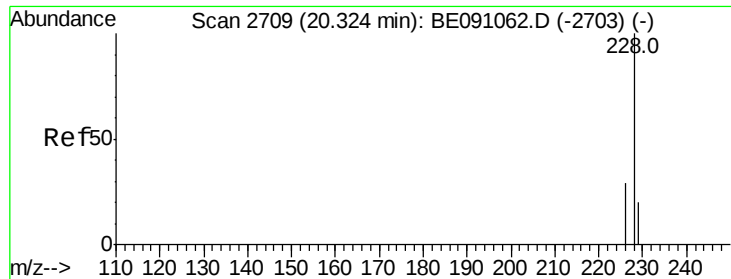
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#20  
Benzo(a)anthracene  
Concen: 9.15 ng/ul  
RT: 20.26 min Scan# 2695  
Delta R.T. 0.00 min  
Lab File: BE091066.D  
Acq: 5 Nov 2015 12:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.0  | 23.0  | 34.4  |
| 229     | 21.1  | 15.2  | 22.8  |





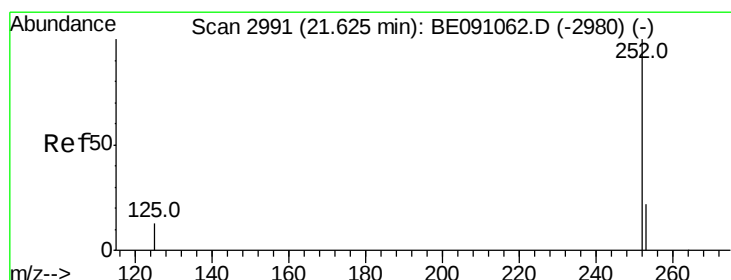
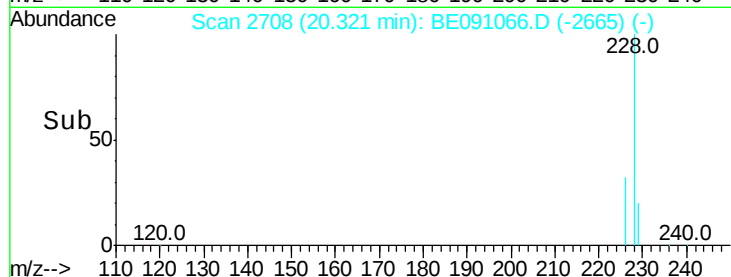
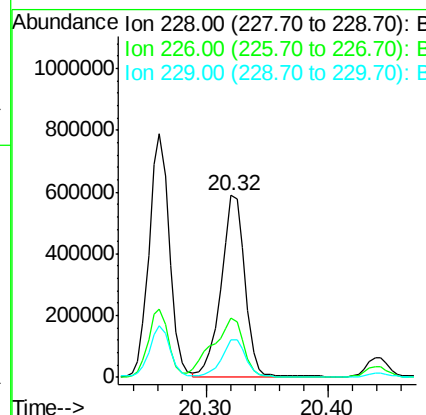
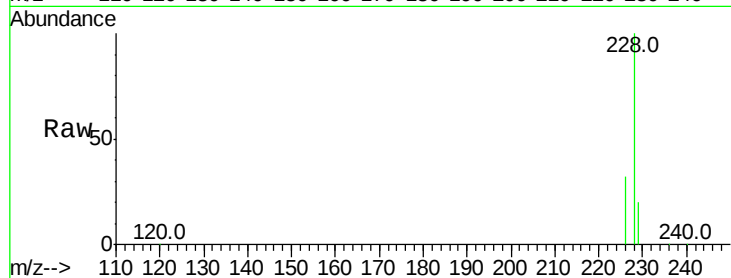
#21  
Chrysene  
Concen: 7.02 ng/u1  
RT: 20.32 min Scan# 2708  
Delta R.T. -0.00 min  
Lab File: BE091066.D  
Acq: 5 Nov 2015 12:42

Instrument :  
BNA\_E  
ClientSampleId :  
COAN8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.3  | 25.7  | 38.5  |
| 229     | 20.3  | 15.2  | 22.8  |

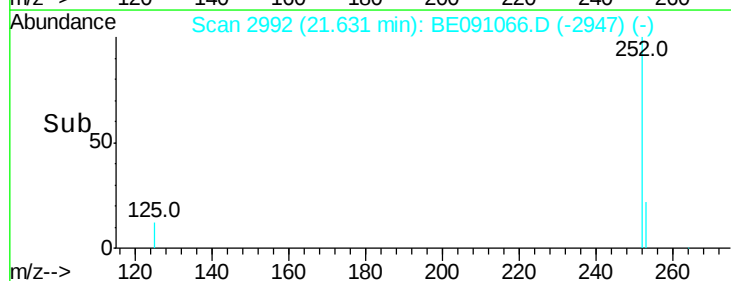
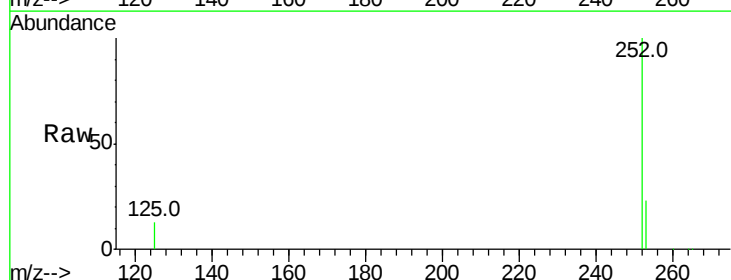
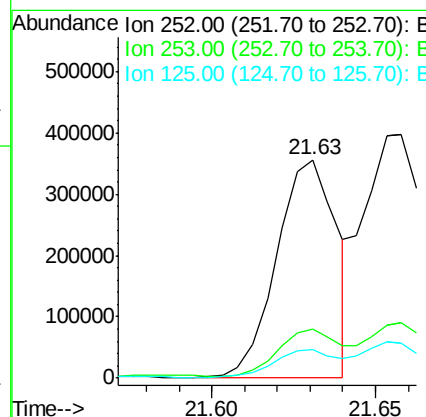
Manual Integrations  
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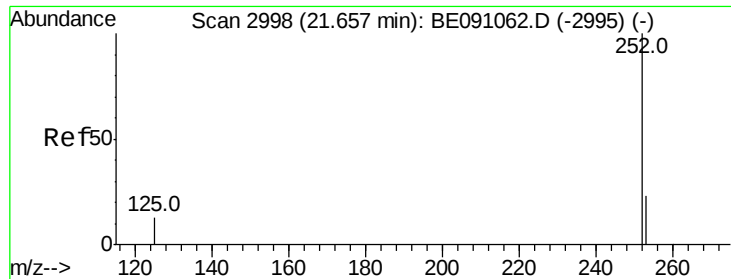
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#23  
Benzo(b)fluoranthene  
Concen: 2.78 ng/u1  
RT: 21.63 min Scan# 2992  
Delta R.T. 0.01 min  
Lab File: BE091066.D  
Acq: 5 Nov 2015 12:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 0.0   | 48.0  |
| 125     | 12.8  | 0.0   | 36.6  |





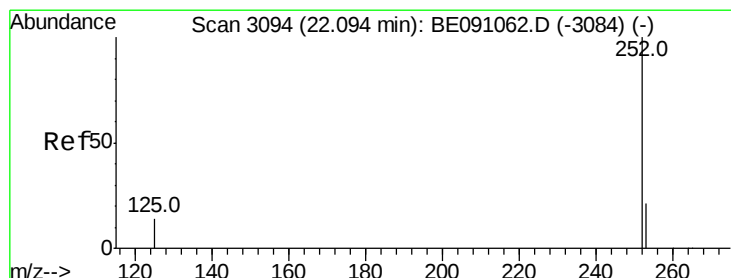
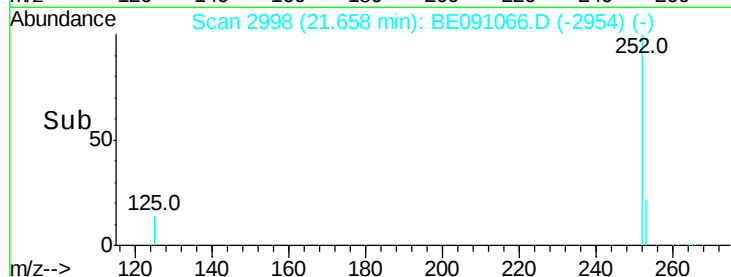
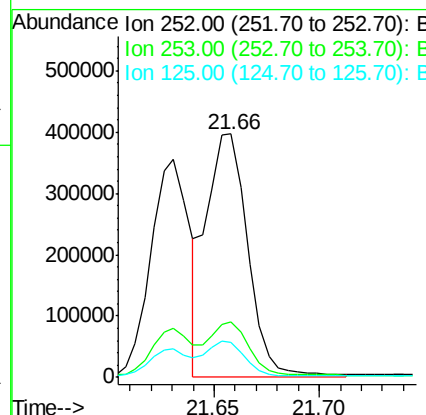
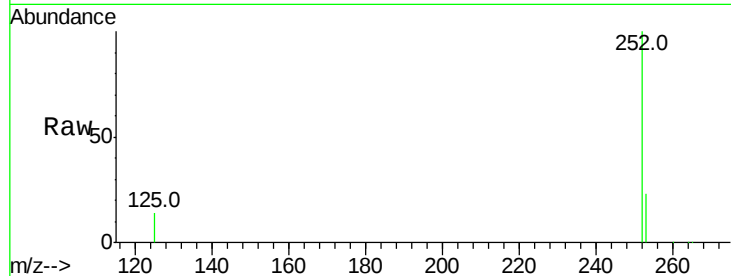
#24  
Benzo(k)fluoranthene  
Concen: 3.29 ng/ul m  
RT: 21.66 min Scan# 2998  
Delta R.T. 0.00 min  
Lab File: BE091066.D  
Acq: 5 Nov 2015 12:42

Instrument :  
BNA\_E  
ClientSampleId :  
COAN8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 20.8  | 31.2  |
| 125     | 14.1  | 12.2  | 18.4  |

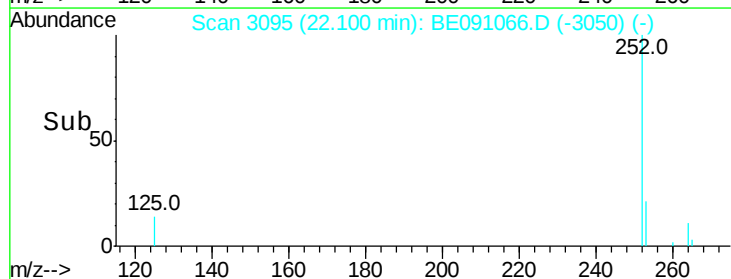
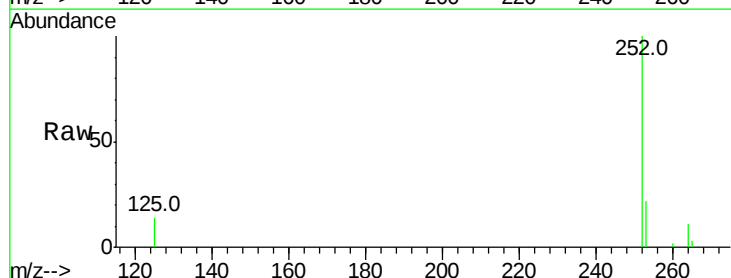
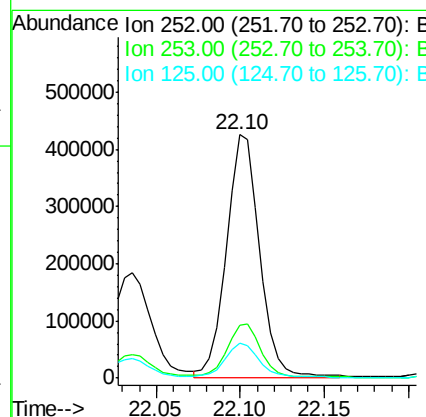
Manual Integrations  
APPROVED

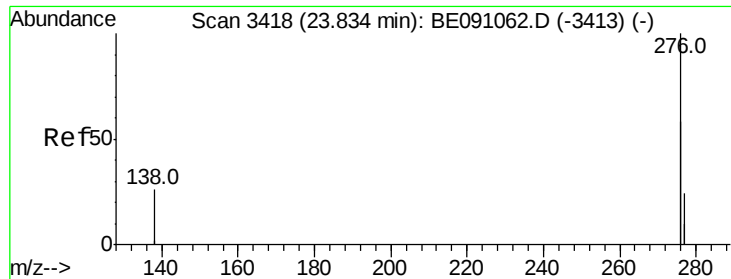
Mmdadoda  
11/6/2015 3:45:13 PM



#25  
Benzo(a)pyrene  
Concen: 3.92 ng/ul m  
RT: 22.10 min Scan# 3095  
Delta R.T. 0.01 min  
Lab File: BE091066.D  
Acq: 5 Nov 2015 12:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 21.8  | 32.8  |
| 125     | 14.3  | 14.5  | 21.7# |





#26

Indeno(1,2,3-cd)pvrene

Concen: 1.76 ng/ul m

RT: 23.84 min Scan# 3418

Delta R.T. 0.01 min

Lab File: BE091066.D

Acq: 5 Nov 2015 12:42

Instrument :

BNA\_E

ClientSampleId :

COAN8

Tot Ion:276 Resp: 1109119

Ion Ratio Lower Upper

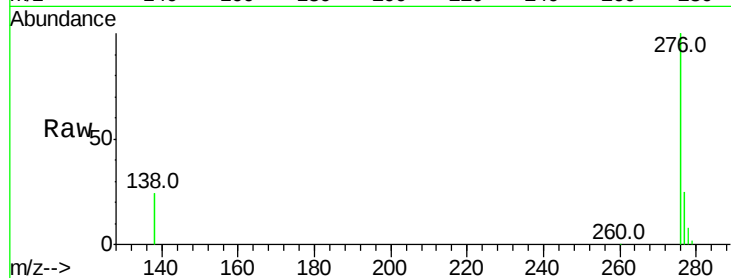
276 100

138 5.4 27.5 41.3#

277 7.3 19.3 28.9#

Manual Integrations  
APPROVED

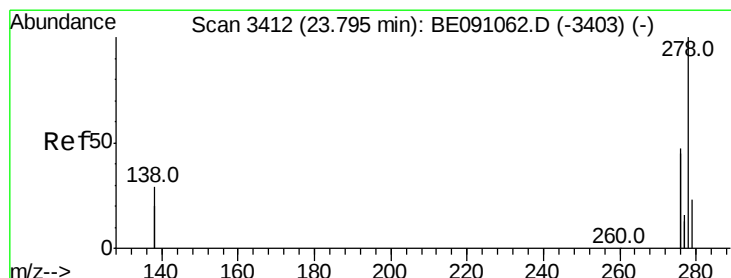
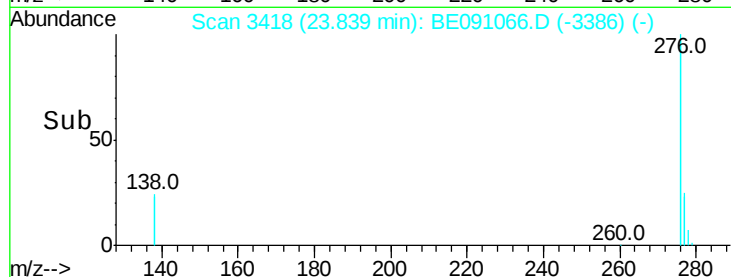
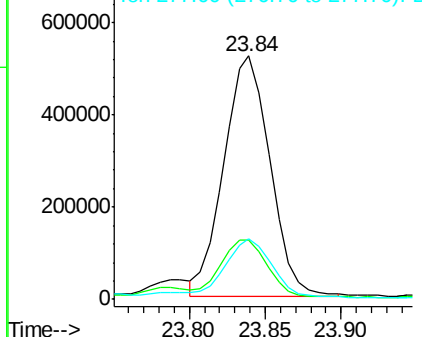
Mmdadoda  
11/6/2015 3:45:13 PM



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#27

Dibenzo(a,h)anthracene

Concen: 0.53 ng/ul m

RT: 23.79 min Scan# 3410

Delta R.T. -0.01 min

Lab File: BE091066.D

Acq: 5 Nov 2015 12:42

Tgt Ion:278 Resp: 79328

Ion Ratio Lower Upper

278 100

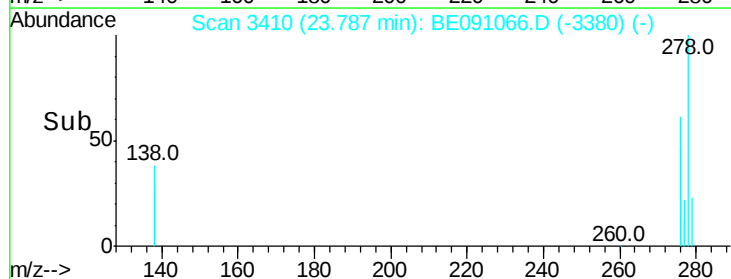
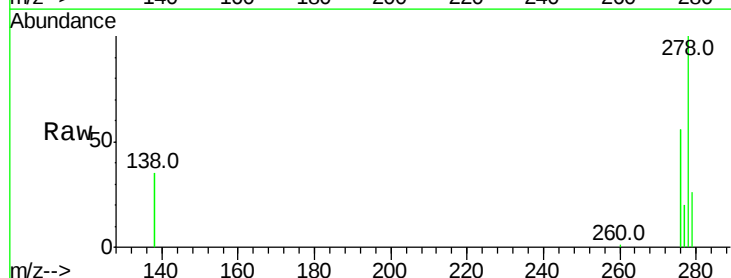
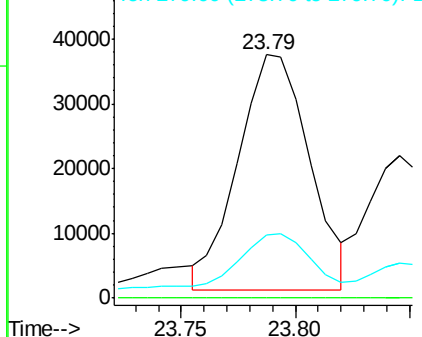
139 0.0 21.7 32.5#

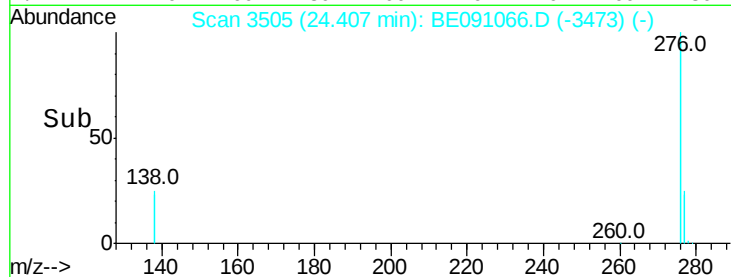
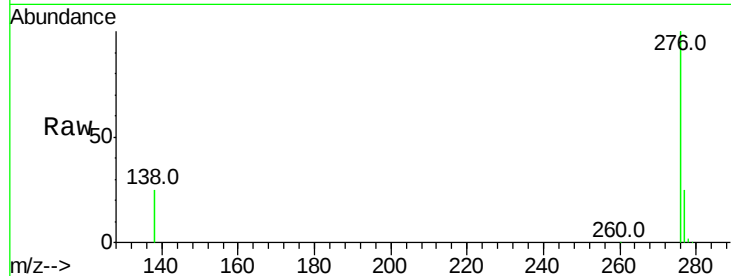
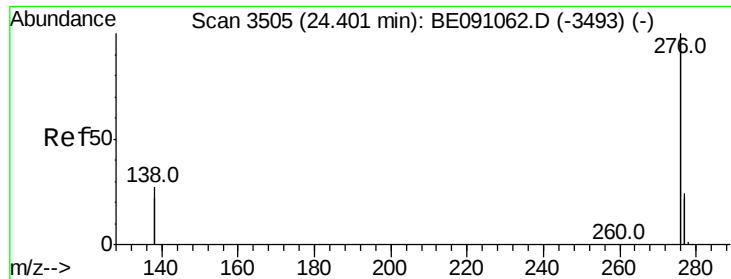
279 26.1 21.9 32.9

Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#28

Benzo(a,h,i)perylene

Concen: 1.52 ng/ul m

RT: 24.41 min Scan# 3505

Delta R.T. 0.01 min

Lab File: BE091066.D

Acq: 5 Nov 2015 12:42

Tot Ion: 276 Resp: 1005271

Ion Ratio Lower Upper

276 100

277 24.8 21.3 31.9

138 25.4 25.5 38.3#

Instrument :

BNA\_E

ClientSampleId :

COAN8

Manual Integrations  
APPROVED

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11/6/2015 3:45:13 PM

