

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE101417\  
 Data File : BE094406.D  
 Acq On : 15 Oct 2017 23:04  
 Operator : SJ/JU  
 Sample : I5548-20  
 Misc :  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AD1

Manual Integrations  
 APPROVED

Sohil  
 10/16/2017 8:26:45 PM

Quant Time: Oct 16 08:23:44 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE092017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 16 07:45:00 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.91  | 152  | 1968     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.71 | 136  | 10496    | 0.40   | ng/ul  | 0.01     |
| 6) Acenaphthene-d10         | 14.53 | 164  | 6111     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.27 | 188  | 12235    | 0.40   | ng/ul  | 0.02     |
| 16) Chrysene-d12            | 21.44 | 240  | 11426    | 0.40   | ng/ul  | 0.02     |
| 20) Perylene-d12            | 23.99 | 264  | 12945m   | 0.40   | ng/ul  | 0.04     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.29 | 152  | 3233     | 0.20   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.30 | 212  | 7040m    | 0.17   | ng/ul  | 0.01     |
| Target Compounds            |       |      |          |        | Ovalue |          |
| 3) Naphthalene              | 10.76 | 128  | 11474    | 0.446  | ng/ul# | 92       |
| 5) 2-Methylnaphthalene      | 12.36 | 142  | 6889     | 0.413  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.26 | 152  | 15256    | 0.640  | ng/ul  | 98       |
| 8) Acenaphthene             | 14.59 | 153  | 16437    | 0.838  | ng/ul  | 97       |
| 9) Fluorene                 | 15.58 | 166  | 18630    | 0.811  | ng/ul  | 95       |
| 12) Phenanthrene            | 17.31 | 178  | 491575   | 15.375 | ng/ul# | 89       |
| 13) Anthracene              | 17.40 | 178  | 151869   | 4.884  | ng/ul# | 89       |
| 15) Fluoranthene            | 19.33 | 202  | 1636301  | 38.950 | ng/ul  | 84       |
| 17) Pyrene                  | 19.69 | 202  | 1635416  | 51.443 | ng/ul# | 84       |
| 18) Benzo(a)anthracene      | 21.43 | 228  | 929322   | 30.659 | ng/ul# | 86       |
| 19) Chrysene                | 21.48 | 228  | 820527   | 23.440 | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 23.21 | 252  | 1000330  | 28.447 | ng/ul  | 86       |
| 22) Benzo(k)fluoranthene    | 23.25 | 252  | 361210m  | 8.887  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.88 | 252  | 771259m  | 21.107 | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 26.71 | 276  | 464474m  | 12.426 | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 26.71 | 278  | 123839m  | 3.950  | ng/ul  |          |
| 26) Benzo(a,h,i)perylene    | 27.55 | 276  | 353647m  | 10.968 | ng/ul  |          |

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

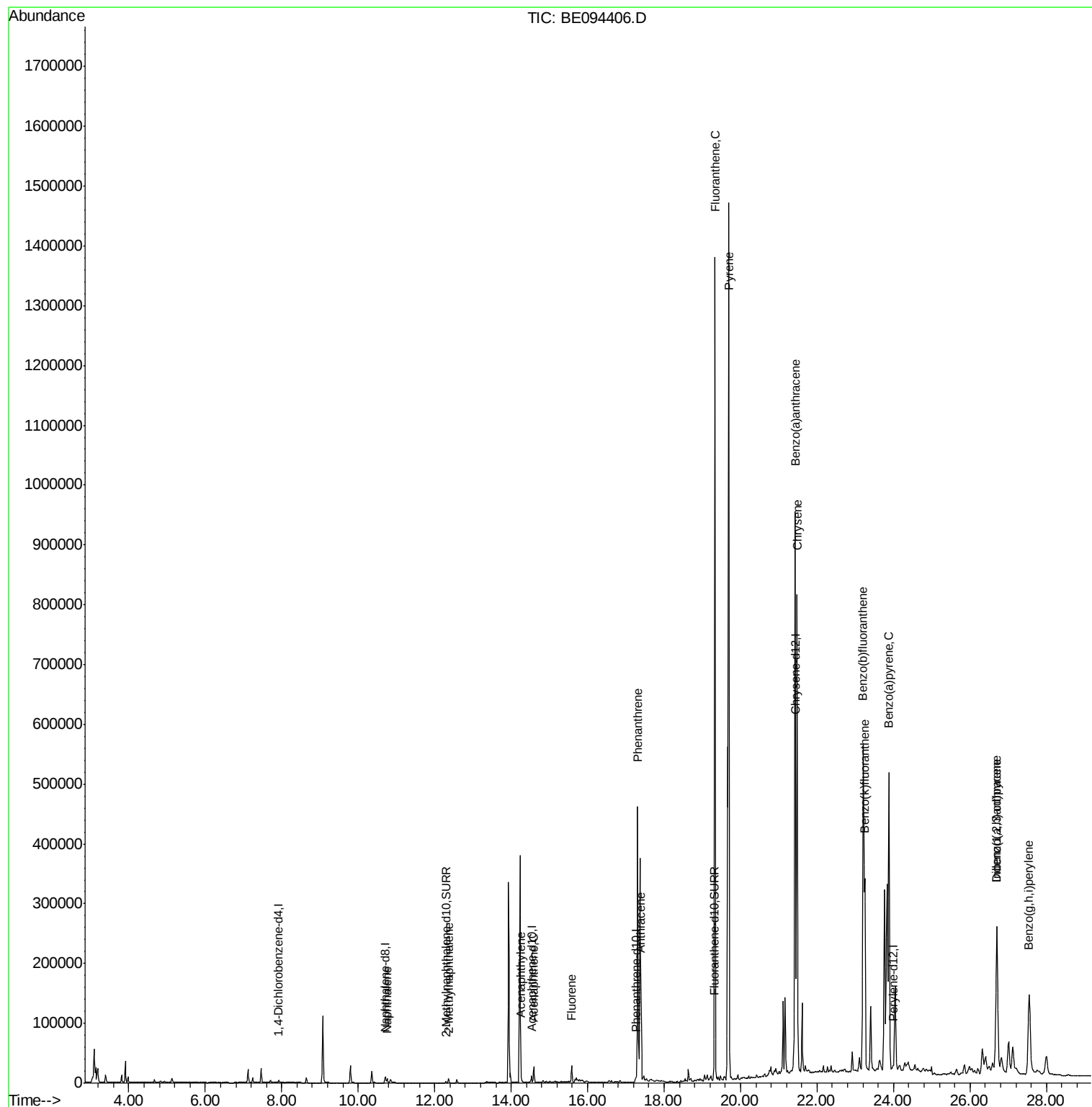
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE101417\  
Data File : BE094406.D  
Acq On : 15 Oct 2017 23:04  
Operator : SJ/JU  
Sample : I5548-20  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

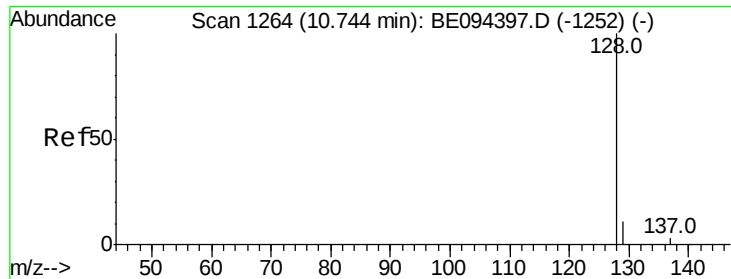
Instrument :  
BNA\_E  
ClientSampleId :  
C0AD1

Manual Integrations  
APPROVED

Sohil  
10/16/2017 8:26:45 PM

Quant Time: Oct 16 08:23:44 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE092017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 16 07:45:00 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.446 ng/ul

RT: 10.76 min Scan# 1266

Delta R.T. 0.01 min

Lab File: BE094406.D

Acq: 15 Oct 2017 23:04

Instrument :

BNA\_E

ClientSampled :

C0AD1

Tot Ion:128 Resp: 11474

Ion Ratio Lower Upper

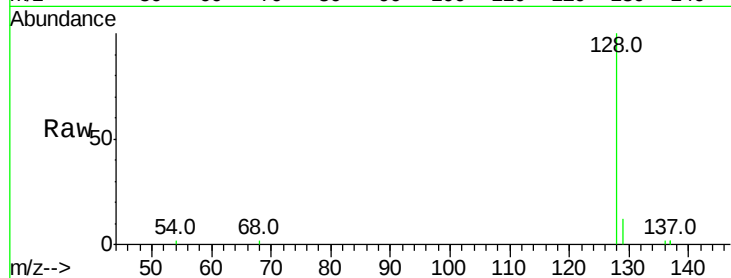
128 100

129 12.0 11.3 16.9

127 0.0 4.0 6.0#

Manual Integrations  
APPROVED

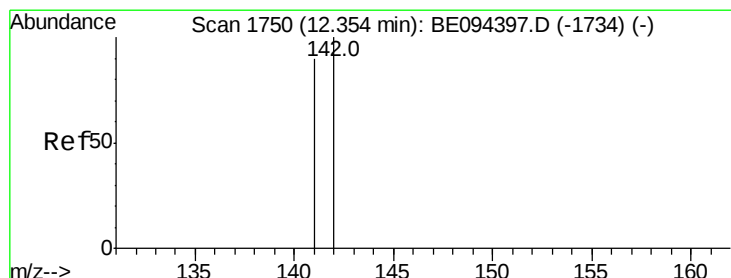
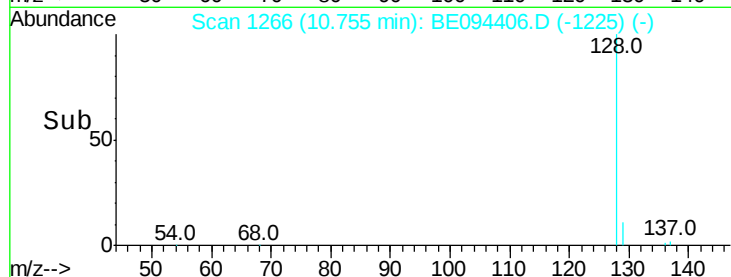
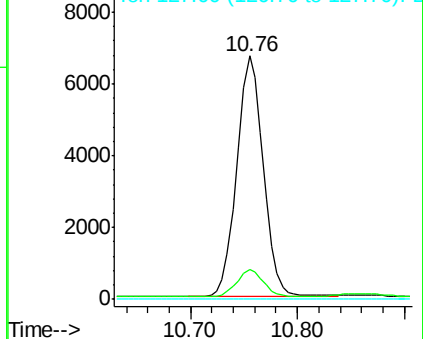
Sohil  
10/16/2017 8:26:45 PM



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.413 ng/ul

RT: 12.36 min Scan# 1753

Delta R.T. 0.01 min

Lab File: BE094406.D

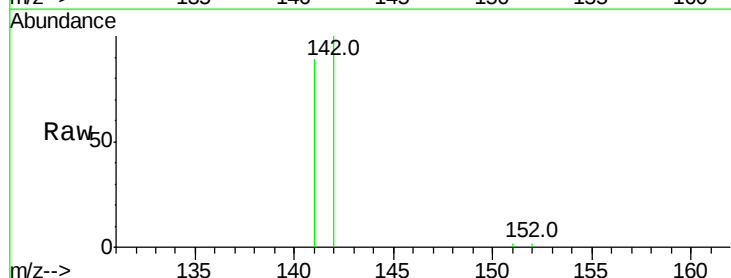
Acq: 15 Oct 2017 23:04

Tgt Ion:142 Resp: 6889

Ion Ratio Lower Upper

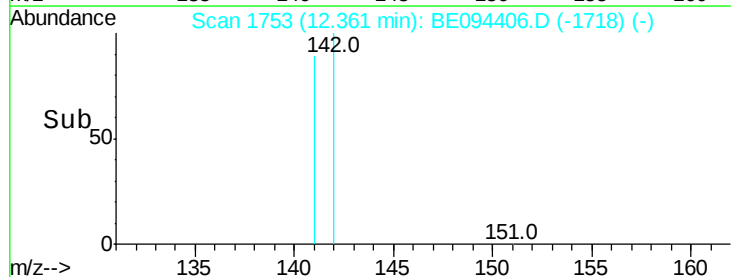
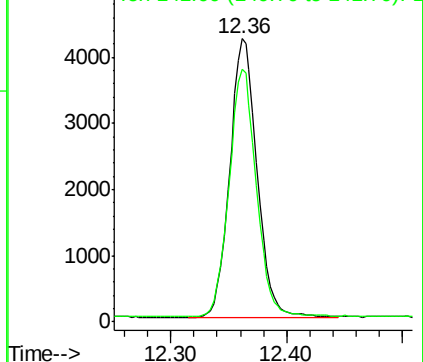
142 100

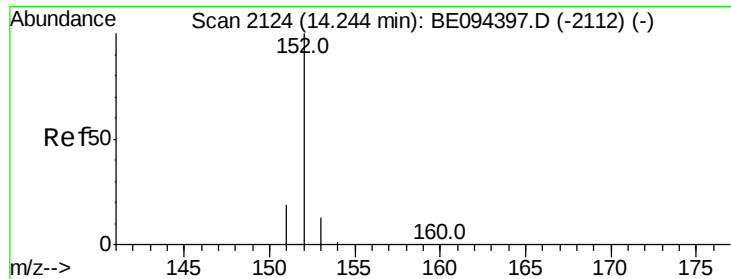
141 89.6 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.640 ng/ul

RT: 14.26 min Scan# 2126

Delta R.T. 0.01 min

Lab File: BE094406.D

Acq: 15 Oct 2017 23:04

Instrument :

BNA\_E

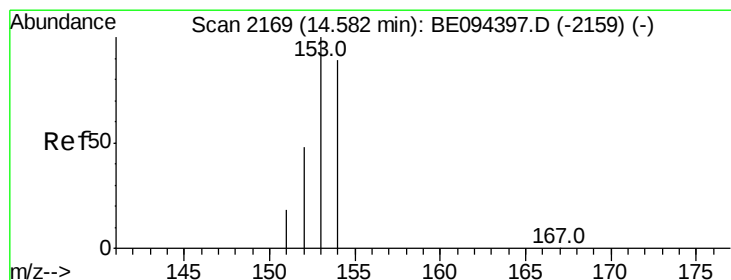
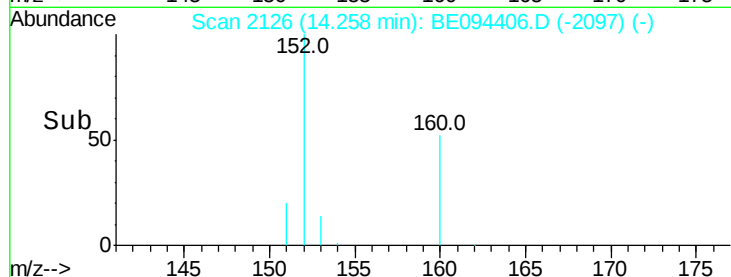
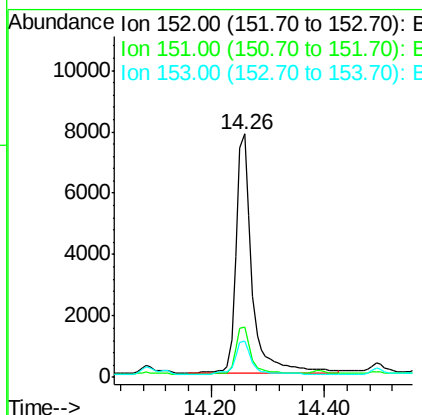
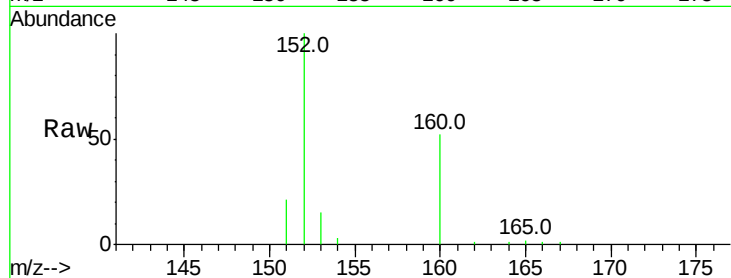
ClientSampleId :

C0AD1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 15256 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.6  | 17.1  | 25.7  |
| 153       | 15.1  | 12.8  | 19.2  |

Manual Integrations  
APPROVED

Sohil  
10/16/2017 8:26:45 PM



#8

Acenaphthene

Concen: 0.838 ng/ul

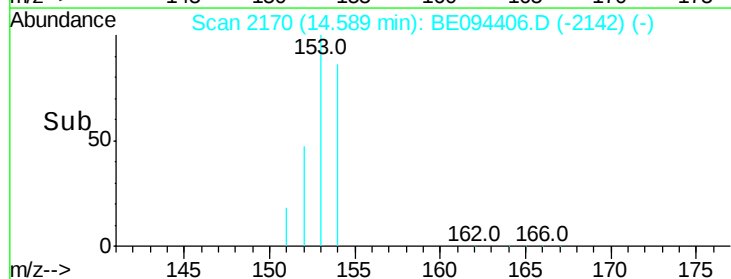
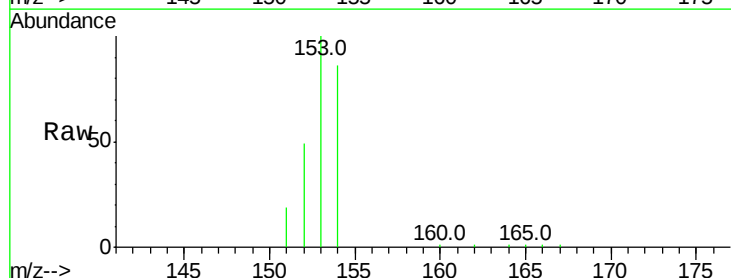
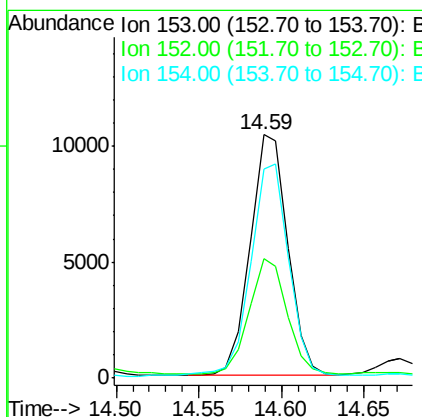
RT: 14.59 min Scan# 2170

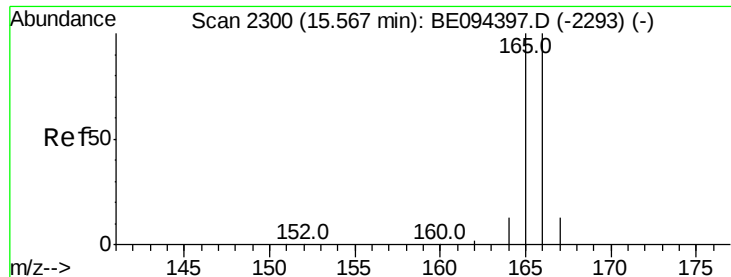
Delta R.T. 0.01 min

Lab File: BE094406.D

Acq: 15 Oct 2017 23:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 16437 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 48.9  | 40.3  | 60.5  |
| 154       | 85.9  | 71.4  | 107.2 |





#9

Fluorene

Concen: 0.811 ng/ul

RT: 15.58 min Scan# 2302

Delta R.T. 0.01 min

Lab File: BE094406.D

Acq: 15 Oct 2017 23:04

Instrument :

BNA\_E

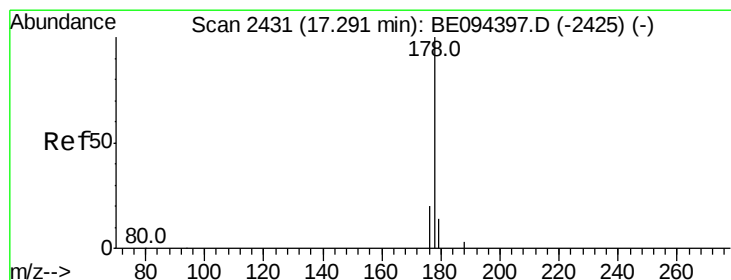
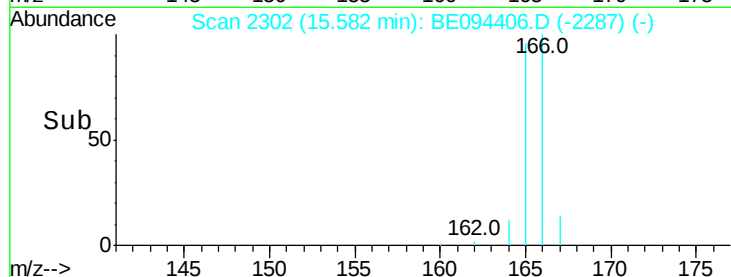
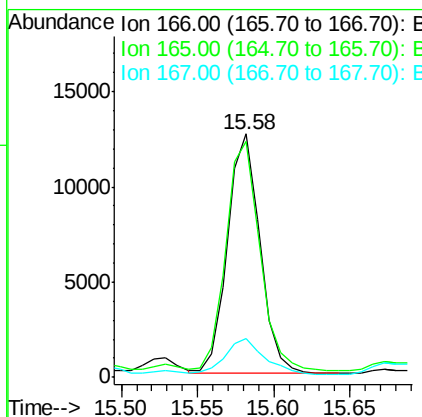
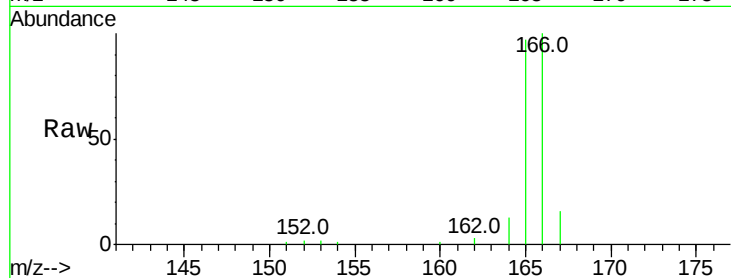
ClientSampled :

C0AD1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 96.7  | 73.4  | 110.2 |
| 167     | 15.7  | 14.6  | 22.0  |

Manual Integrations  
APPROVED

Sohil  
10/16/2017 8:26:45 PM



#12

Phenanthrene

Concen: 15.375 ng/ul

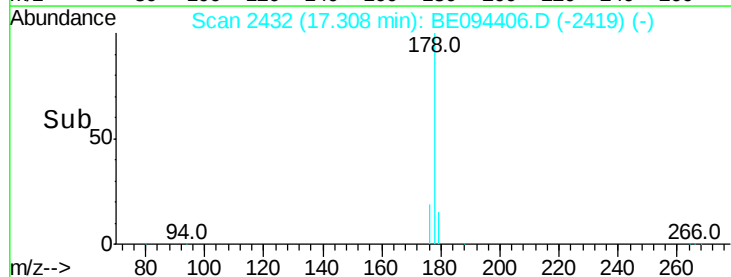
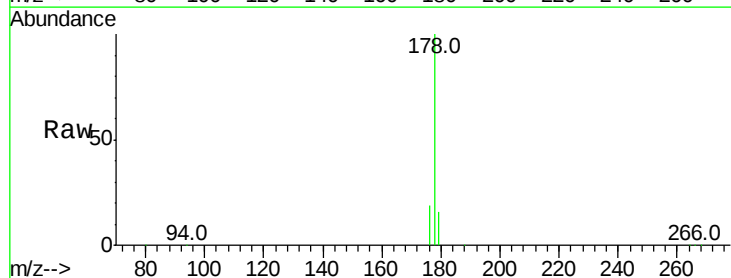
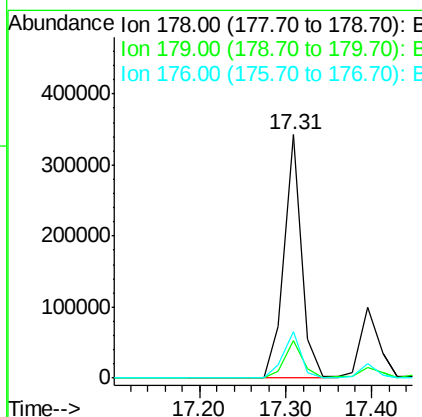
RT: 17.31 min Scan# 2432

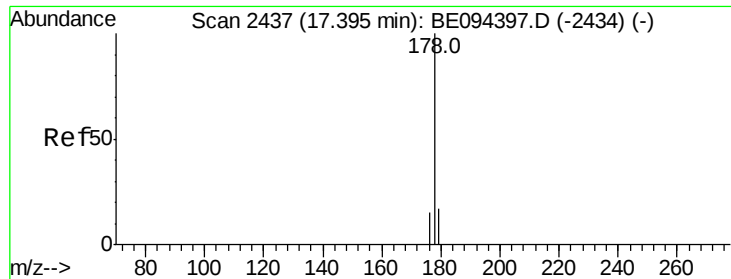
Delta R.T. 0.02 min

Lab File: BE094406.D

Acq: 15 Oct 2017 23:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.6  | 18.4  | 27.6# |
| 176     | 19.0  | 13.6  | 20.4  |





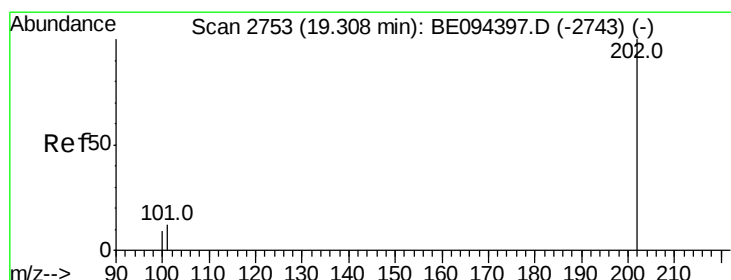
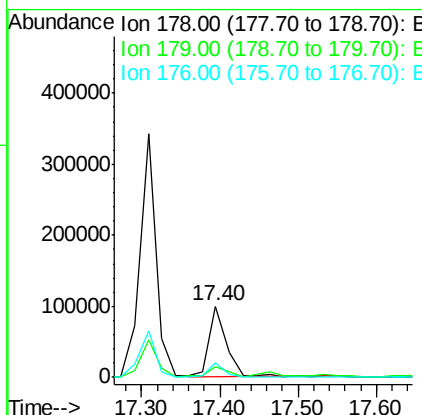
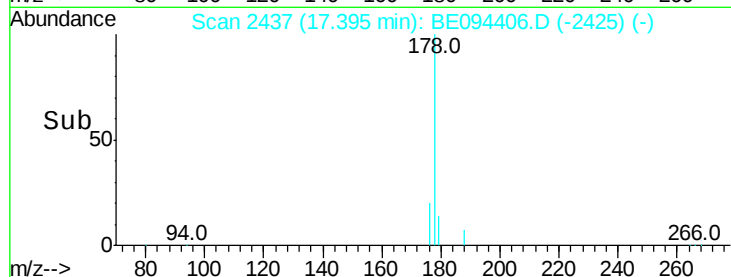
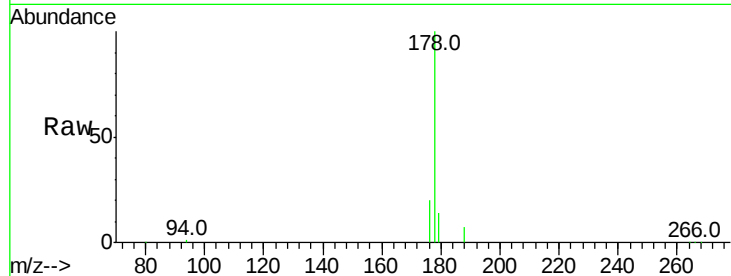
#13  
 Anthracene  
 Concen: 4.884 ng/ul  
 RT: 17.40 min Scan# 2437  
 Delta R.T. 0.00 min  
 Lab File: BE094406.D  
 Acq: 15 Oct 2017 23:04

Instrument :  
 BNA\_E  
 ClientSampled :  
 C0AD1

Tot Ion:178 Resp: 151869  
 Ion Ratio Lower Upper  
 178 100  
 179 14.5 18.1 27.1#  
 176 19.8 14.7 22.1

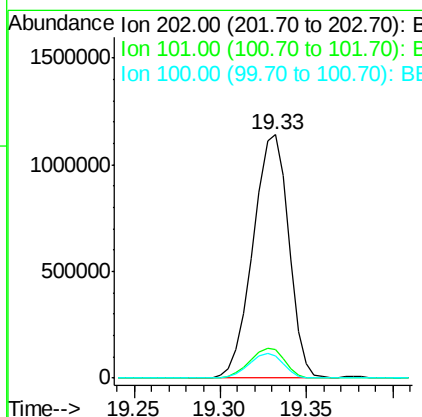
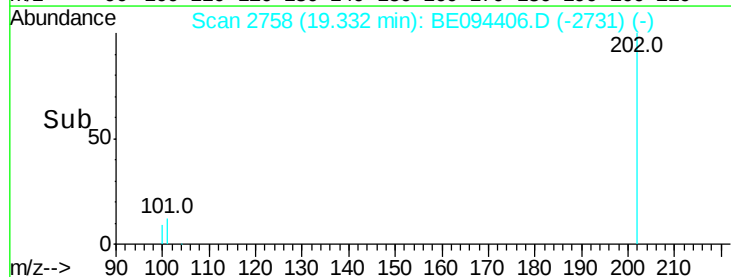
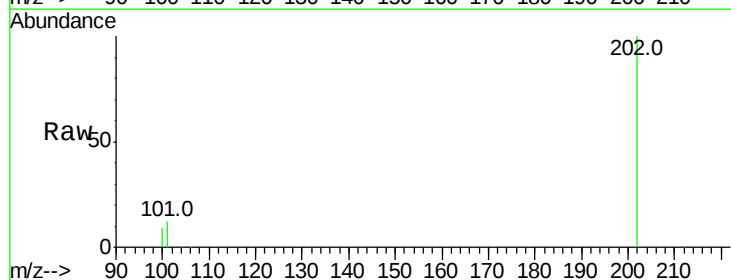
Manual Integrations  
 APPROVED

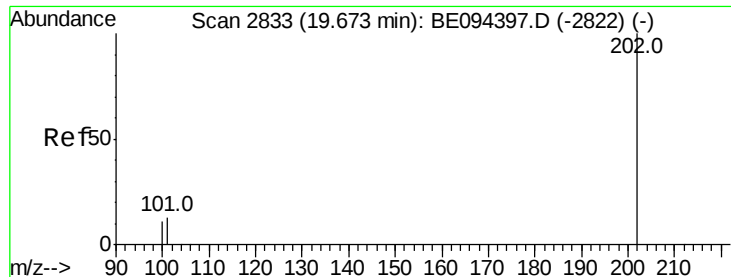
Sohil  
 10/16/2017 8:26:45 PM



#15  
 Fluoranthene  
 Concen: 38.950 ng/ul  
 RT: 19.33 min Scan# 2758  
 Delta R.T. 0.02 min  
 Lab File: BE094406.D  
 Acq: 15 Oct 2017 23:04

Tgt Ion:202 Resp: 1636301  
 Ion Ratio Lower Upper  
 202 100  
 101 11.7 0.0 30.3  
 100 9.2 0.0 39.5





#17

Pvrene

Concen: 51.443 ng/ul

RT: 19.69 min Scan# 2837

Delta R.T. 0.02 min

Lab File: BE094406.D

Acq: 15 Oct 2017 23:04

Instrument :

BNA\_E

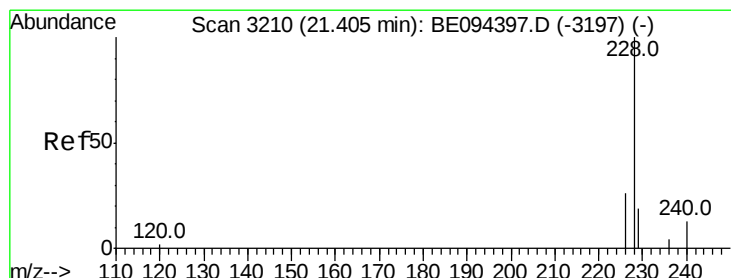
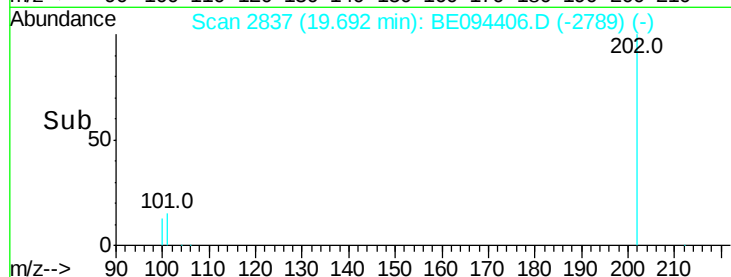
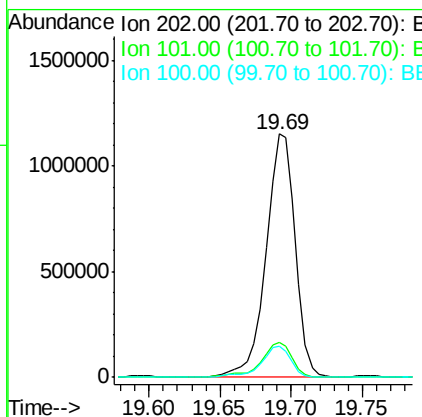
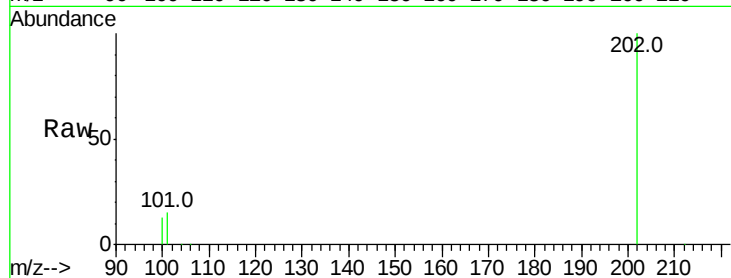
ClientSampled :

C0AD1

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 1635416 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 14.6  | 18.2  | 27.4#   |
| 100       | 12.7  | 15.6  | 23.4#   |

Manual Integrations  
APPROVED

Sohil  
10/16/2017 8:26:45 PM



#18

Benzo(a)anthracene

Concen: 30.659 ng/ul

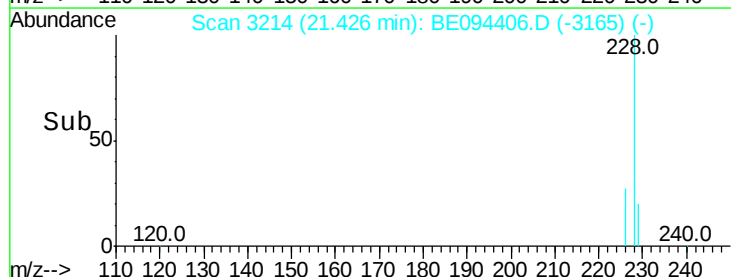
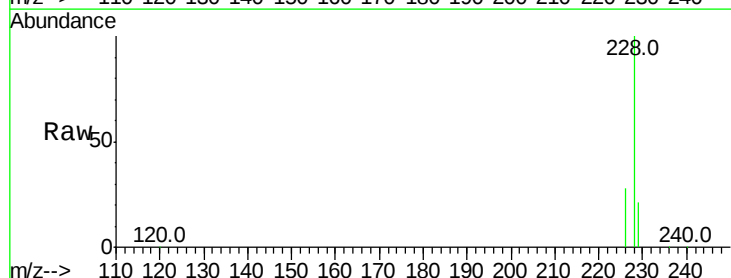
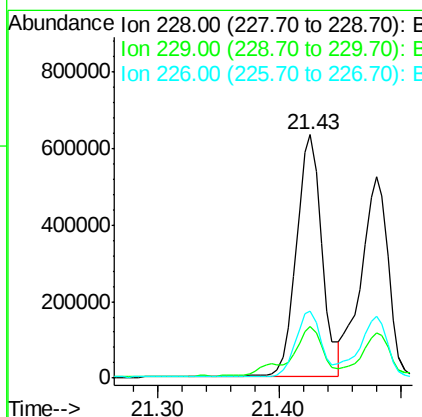
RT: 21.43 min Scan# 3214

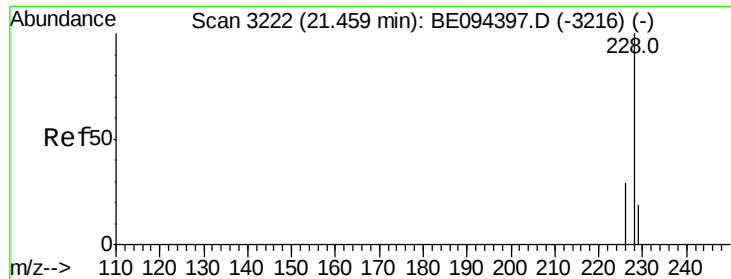
Delta R.T. 0.02 min

Lab File: BE094406.D

Acq: 15 Oct 2017 23:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 929322 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 21.2  | 22.8  | 34.2#  |
| 226       | 27.6  | 17.0  | 25.6#  |





#19

Chrysene

Concen: 23.440 ng/ul

RT: 21.48 min Scan# 3226

Delta R.T. 0.02 min

Lab File: BE094406.D

Acq: 15 Oct 2017 23:04

Instrument :

BNA\_E

ClientSampleId :

C0AD1

Tot Ion:228 Resp: 820527

Ion Ratio Lower Upper

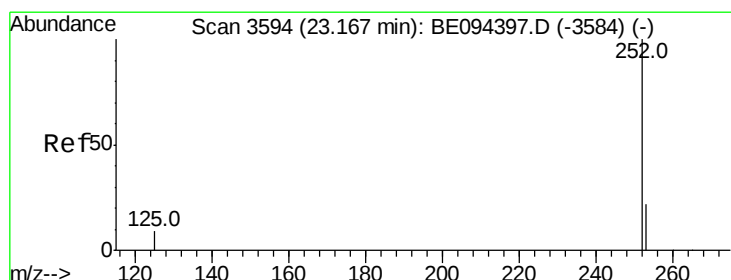
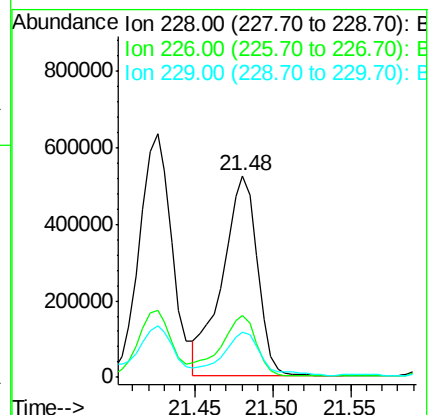
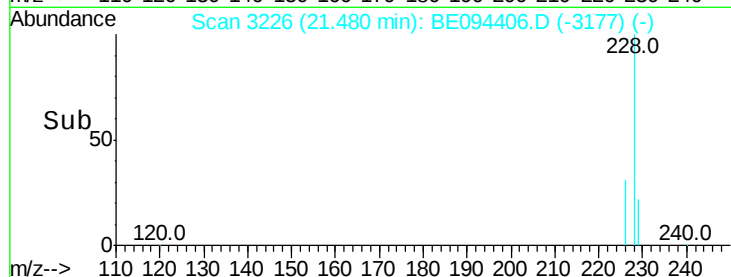
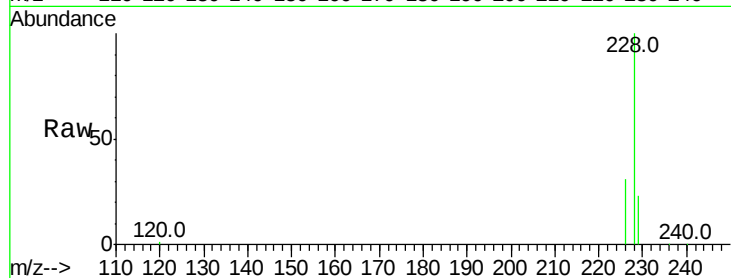
228 100

226 31.0 23.4 35.0

229 22.6 17.7 26.5

Manual Integrations  
APPROVED

Sohil  
10/16/2017 8:26:45 PM



#21

Benzo(b)fluoranthene

Concen: 28.447 ng/ul

RT: 23.21 min Scan# 3602

Delta R.T. 0.04 min

Lab File: BE094406.D

Acq: 15 Oct 2017 23:04

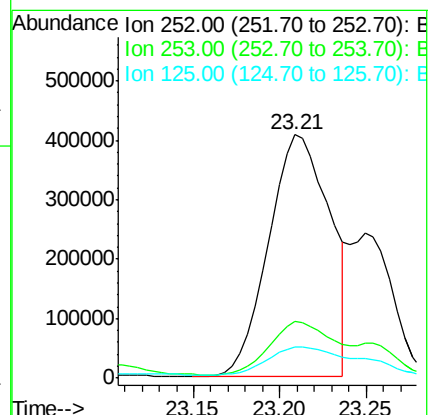
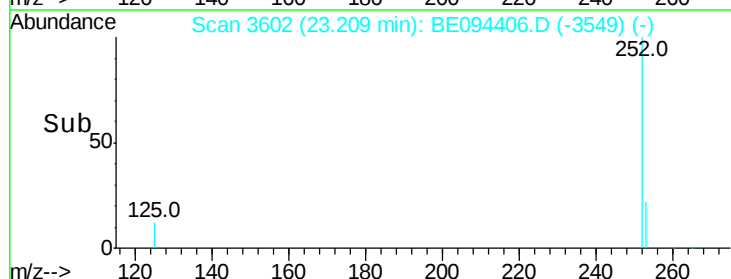
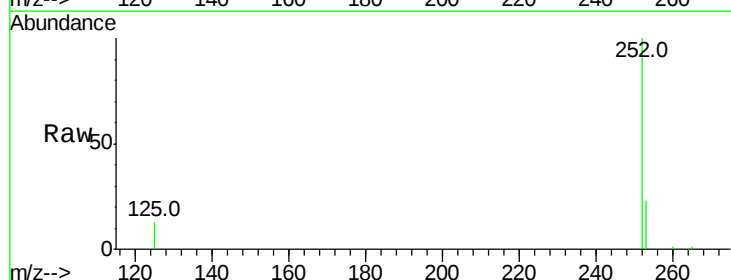
Tgt Ion:252 Resp: 1000330

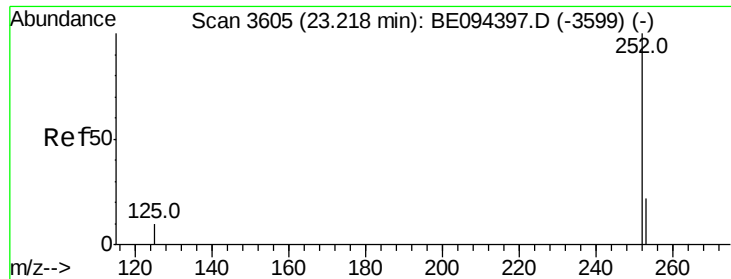
Ion Ratio Lower Upper

252 100

253 23.4 0.0 64.2

125 12.8 0.0 35.0





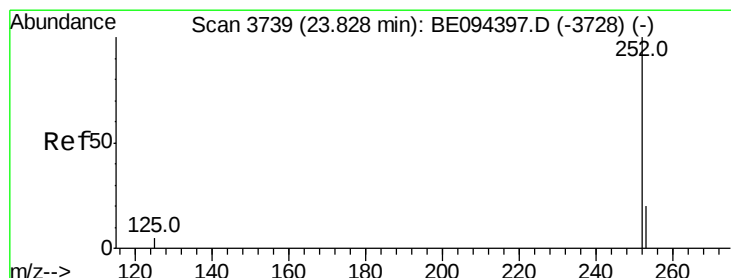
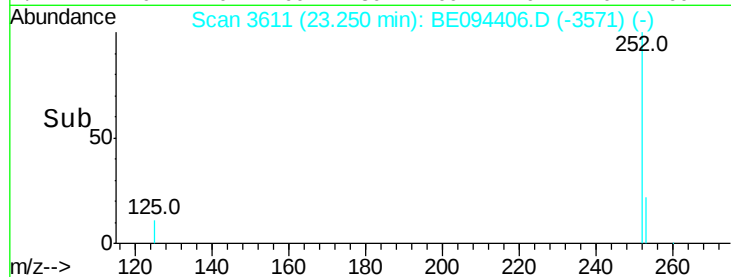
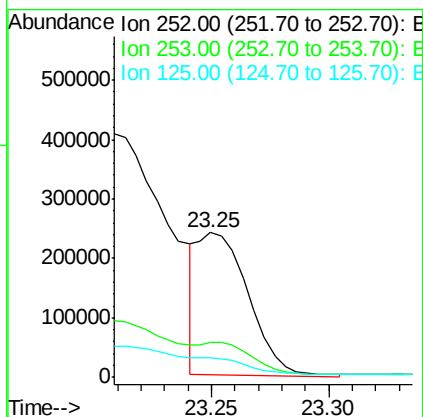
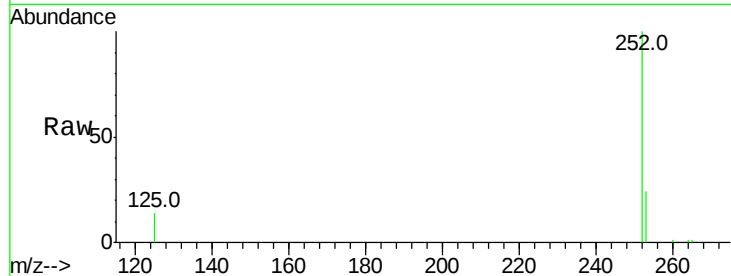
#22  
Benzo(k)fluoranthene  
Concen: 8.887 ng/ul m  
RT: 23.25 min Scan# 3611  
Delta R.T. 0.03 min  
Lab File: BE094406.D  
Acq: 15 Oct 2017 23:04

Instrument :  
BNA\_E  
ClientSampleId :  
C0AD1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.2  | 24.5  | 36.7# |
| 125     | 13.5  | 13.7  | 20.5# |

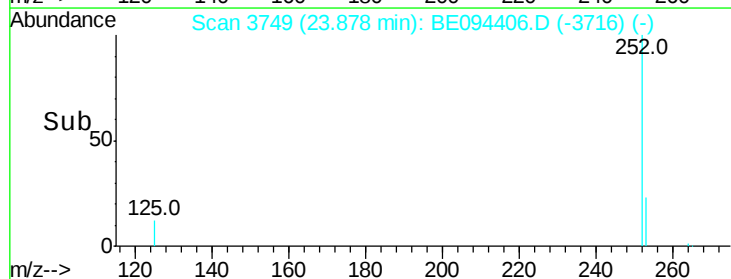
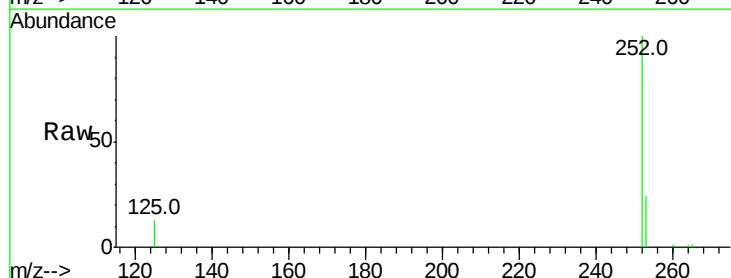
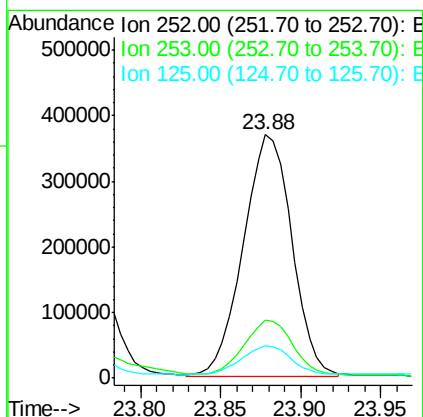
Manual Integrations  
APPROVED

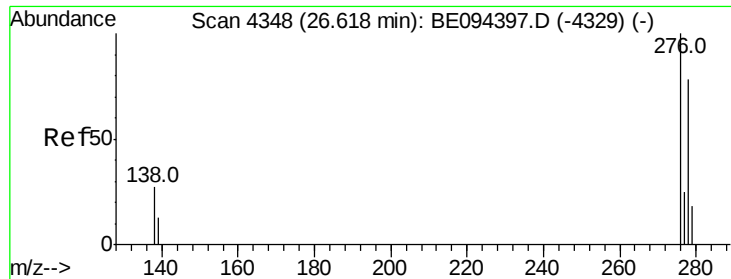
Sohil  
10/16/2017 8:26:45 PM



#23  
Benzo(a)pyrene  
Concen: 21.107 ng/ul m  
RT: 23.88 min Scan# 3749  
Delta R.T. 0.05 min  
Lab File: BE094406.D  
Acq: 15 Oct 2017 23:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 28.5  | 42.7# |
| 125     | 13.3  | 18.1  | 27.1# |





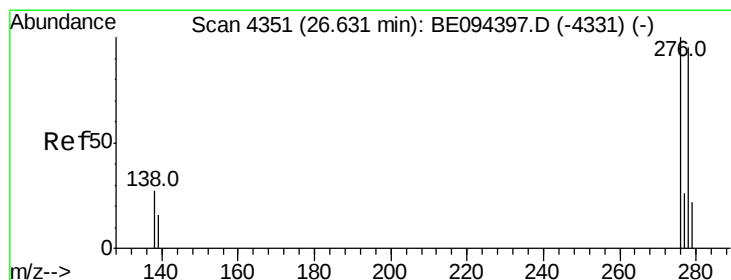
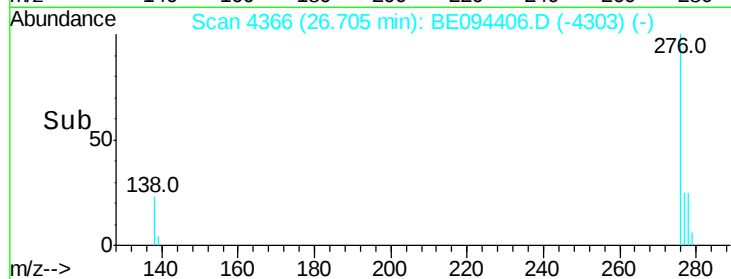
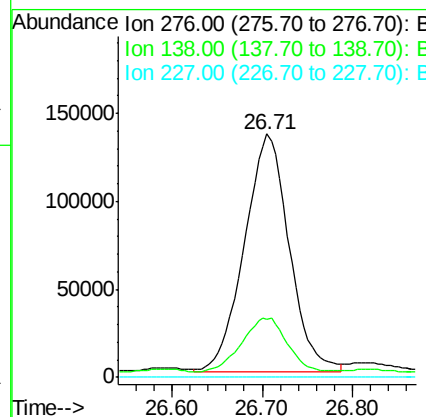
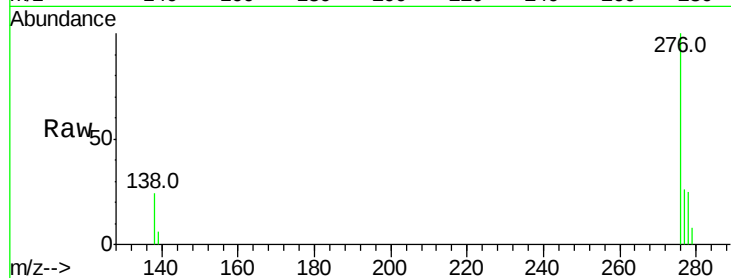
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 12.426 ng/ul m  
 RT: 26.71 min Scan# 4366  
 Delta R.T. 0.09 min  
 Lab File: BE094406.D  
 Acq: 15 Oct 2017 23:04

Instrument :  
 BNA\_E  
 ClientSampled :  
 C0AD1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 0.6   | 28.0  | 42.0# |
| 227     | 0.0   | 8.0   | 12.0# |

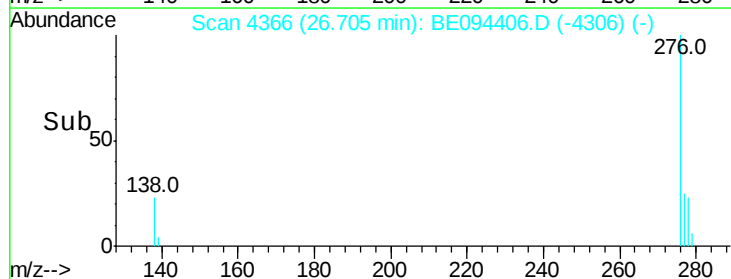
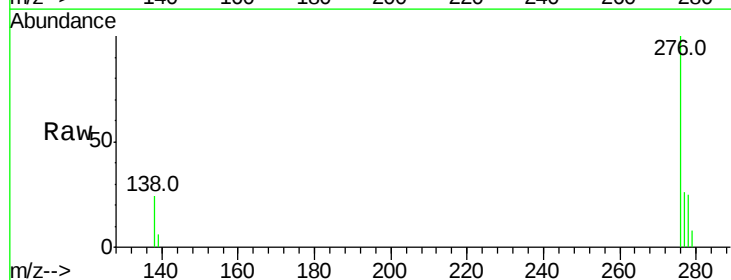
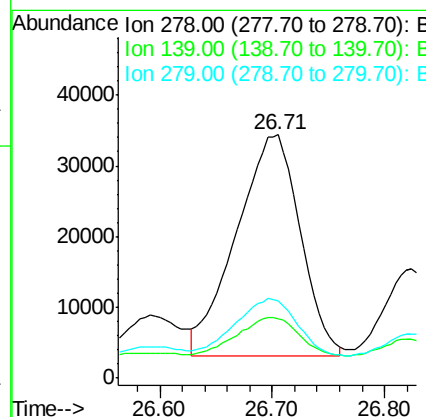
Manual Integrations  
 APPROVED

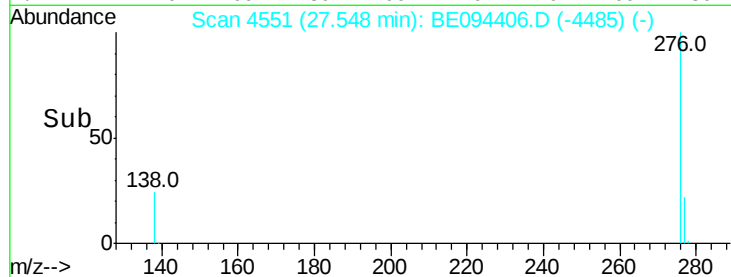
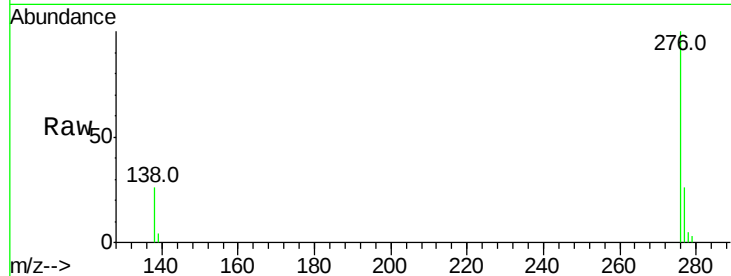
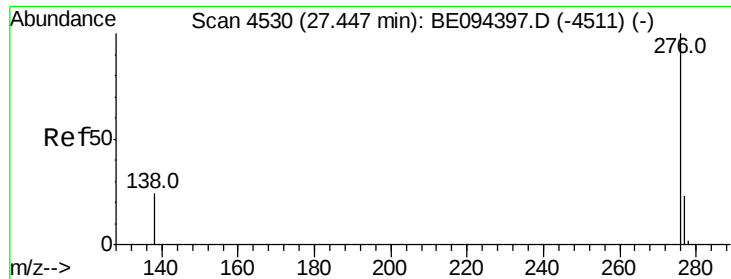
Sohil  
 10/16/2017 8:26:45 PM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 3.950 ng/ul m  
 RT: 26.71 min Scan# 4366  
 Delta R.T. 0.07 min  
 Lab File: BE094406.D  
 Acq: 15 Oct 2017 23:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 24.5  | 17.4  | 26.0  |
| 279     | 31.5  | 25.9  | 38.9  |





#26

Benzo(a,h,i)perylene

Concen: 10.968 ng/ul m

RT: 27.55 min Scan# 4551

Delta R.T. 0.10 min

Lab File: BE094406.D

Acq: 15 Oct 2017 23:04

Instrument :

BNA\_E

ClientSampleId :

C0AD1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 353647 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 25.7  | 21.8  | 32.8   |
| 277       | 26.1  | 20.5  | 30.7   |

Manual Integrations  
APPROVED

Sohil  
10/16/2017 8:26:45 PM

