

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040218\  
 Data File : BE095936.D  
 Acq On : 2 Apr 2018 20:17  
 Operator : SJ/JU  
 Sample : PB107891BSD  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB107891BSD

Manual Integrations  
 APPROVED

Sohil  
 4/12/2018 6:45:25 PM

Quant Time: Apr 12 18:34:10 2018  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE032318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 23 12:41:11 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.42  | 152  | 1375     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 11.26 | 136  | 5098     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.99 | 164  | 2633     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.70 | 188  | 5710     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.79 | 240  | 6687     | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 24.42 | 264  | 6783     | 0.40 | ng    | -0.01    |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.91  | 112 | 1337  | 0.29 | ng | 0.00  |
| 5) Phenol-d6                | 7.56  | 99  | 1843  | 0.30 | ng | 0.00  |
| 8) Nitrobenzene-d5          | 9.59  | 82  | 2005m | 0.33 | ng | 0.00  |
| 11) 2-Methylnaphthalene-d10 | 12.79 | 152 | 2285  | 0.27 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 16.46 | 330 | 378   | 0.25 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 13.63 | 172 | 4219  | 0.38 | ng | -0.01 |
| 25) Fluoranthene-d10        | 19.68 | 212 | 22518 | 0.27 | ng | 0.00  |
| 29) Terphenyl-d14           | 20.24 | 244 | 5293  | 0.37 | ng | 0.00  |

|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.64  | 88  | 626m  | 0.278  | ng |      |
| 3) n-Nitrosodimethylamine      | 3.98  | 42  | 856   | 0.259  | ng | 83   |
| 6) bis(2-Chloroethyl)ether     | 7.81  | 93  | 1460  | 0.272  | ng | 97   |
| 9) Naphthalene                 | 11.30 | 128 | 17108 | 0.294  | ng | 100  |
| 10) Hexachlorobutadiene        | 11.56 | 225 | 1116  | 0.279  | ng | 97   |
| 12) 2-Methylnaphthalene        | 12.86 | 142 | 2859  | 0.288  | ng | 98   |
| 16) Acenaphthylene             | 14.71 | 152 | 4246  | 0.282  | ng | 99   |
| 17) Acenaphthene               | 15.05 | 154 | 2506  | 0.273  | ng | 95   |
| 18) Fluorene                   | 16.02 | 166 | 3225  | 0.267  | ng | # 79 |
| 20) 4-Bromophenyl-phenylether  | 16.89 | 248 | 1008  | 0.294  | ng | # 84 |
| 21) Hexachlorobenzene          | 17.02 | 284 | 1008  | 0.294  | ng | # 81 |
| 22) Pentachlorophenol          | 17.36 | 266 | 567   | 0.569  | ng | # 74 |
| 23) Phenanthrene               | 17.74 | 178 | 4967  | 0.291  | ng | 97   |
| 24) Anthracene                 | 17.82 | 178 | 5022  | 0.294  | ng | 96   |
| 26) Fluoranthene               | 19.71 | 202 | 6749  | 0.284  | ng | # 97 |
| 28) Pyrene                     | 20.06 | 202 | 7890  | 0.290  | ng | 99   |
| 30) Benzo(a)anthracene         | 21.78 | 228 | 6917  | 0.298  | ng | 96   |
| 31) Chrysene                   | 21.83 | 228 | 6665  | 0.315  | ng | 96   |
| 32) Bis(2-ethylhexyl)phthalate | 21.64 | 149 | 17759 | 0.250  | ng | 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 27.22 | 276 | 7390  | 0.324  | ng | 95   |
| 35) Benzo(b)fluoranthene       | 23.60 | 252 | 6762  | 0.301  | ng | # 93 |
| 36) Benzo(k)fluoranthene       | 23.65 | 252 | 6608  | 0.294  | ng | # 88 |
| 37) Benzo(a)pyrene             | 24.30 | 252 | 6497  | 0.309  | ng | # 94 |
| 38) Dibenzo(a,h)anthracene     | 27.24 | 278 | 6025  | 0.301  | ng | 94   |
| 39) Benzo(g,h,i)perylene       | 28.10 | 276 | 6263  | 0.312  | ng | # 91 |

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

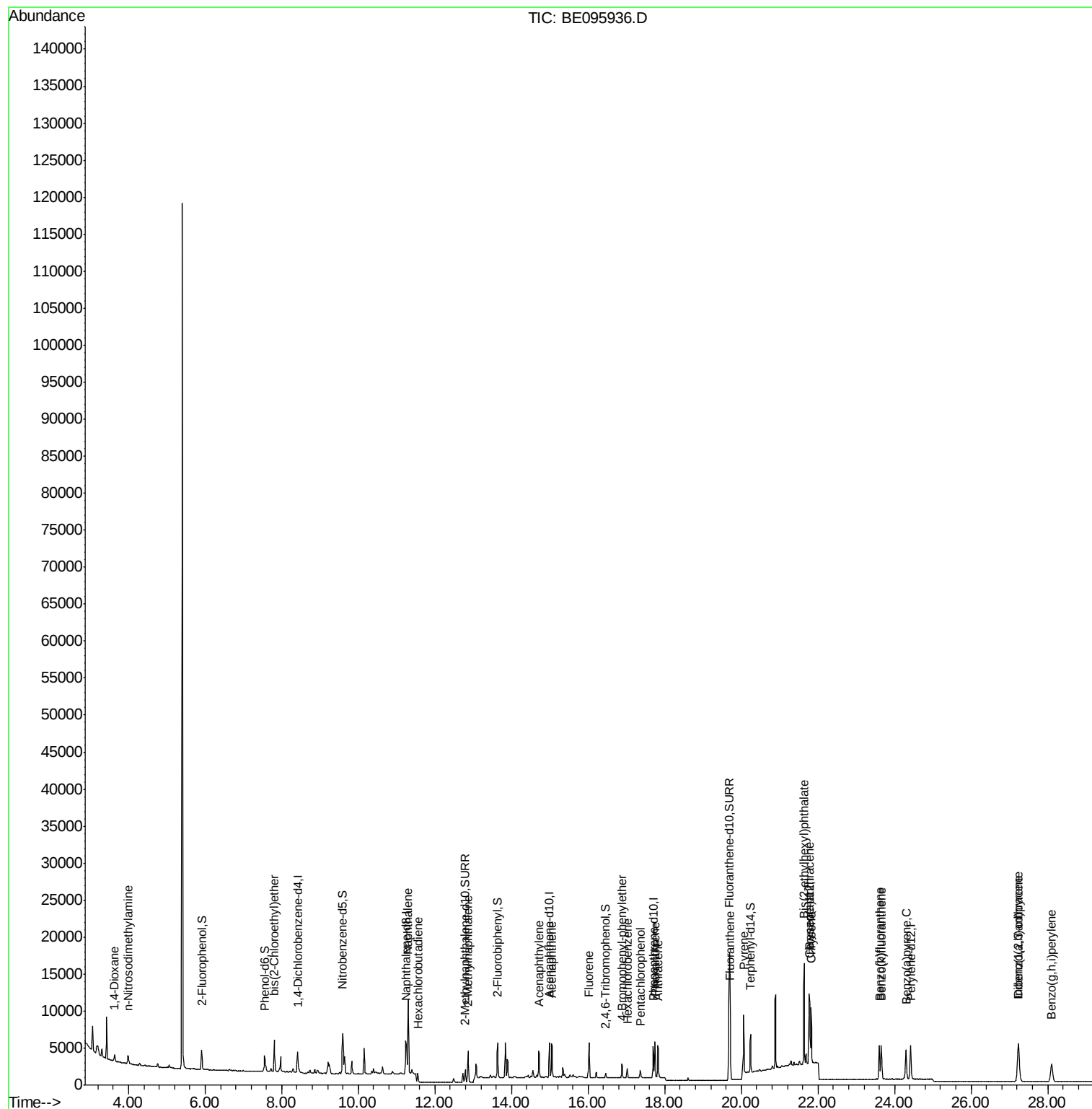
Data Path : Z:\HPCHEM1\BNA E\DATA\BE040218\  
Data File : BE095936.D  
Acq On : 2 Apr 2018 20:17  
Operator : SJ/JU  
Sample : PB107891BSD  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
PB107891BSD

Manual Integrations  
APPROVED

Sohil  
4/12/2018 6:45:25 PM

Quant Time: Apr 12 18:34:10 2018  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE032318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 23 12:41:11 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 8.42 min Scan# 568

Delta R.T. -0.01 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

Instrument :

BNA\_E

ClientSampleId :

PB107891BSD

Tot Ion:152 Resp: 1375

Ion Ratio Lower Upper

152 100

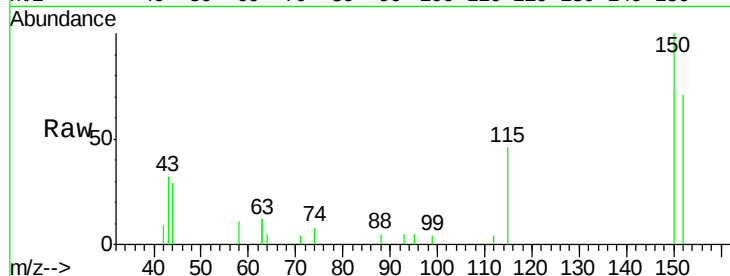
150 139.9 117.2 175.8

115 64.9 57.0 85.6

Manual Integrations  
APPROVED

Sohil

4/12/2018 6:45:25 PM

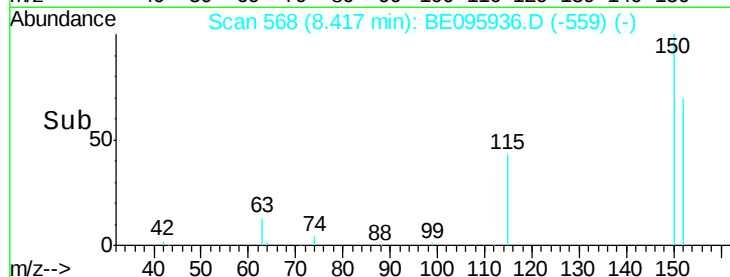


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

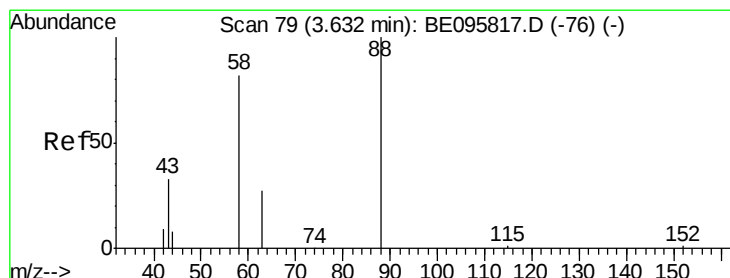
Ion 115.00 (114.70 to 115.70): E

Time-->



8.42

Time-->



#2

1,4-Dioxane

Concen: 0.278 ng m

RT: 3.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

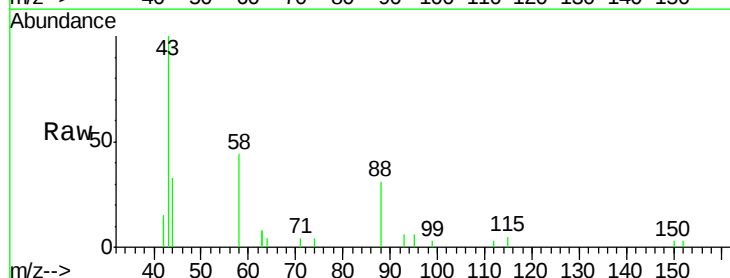
Tgt Ion: 88 Resp: 626

Ion Ratio Lower Upper

88 100

58 117.7 63.2 94.8#

43 68.1 41.2 61.8#

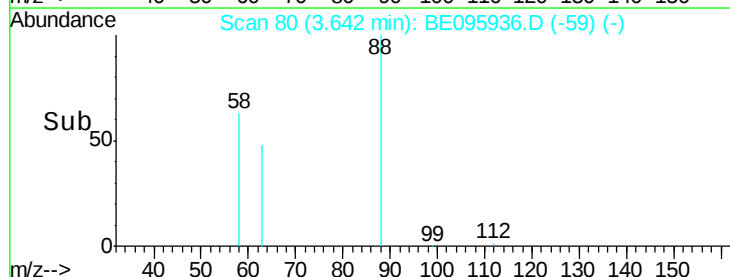


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

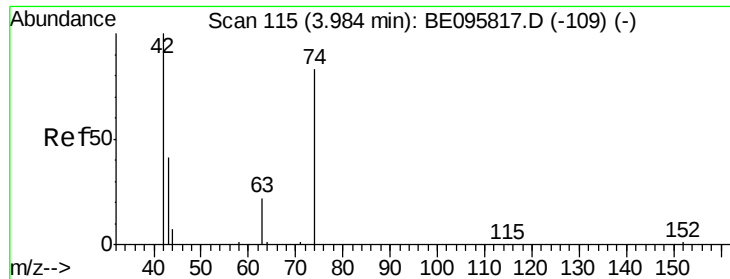
Ion 43.00 (42.70 to 43.70): BE0

Time-->



3.64

Time-->



#3

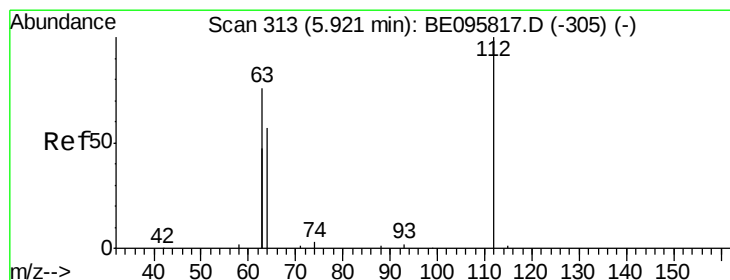
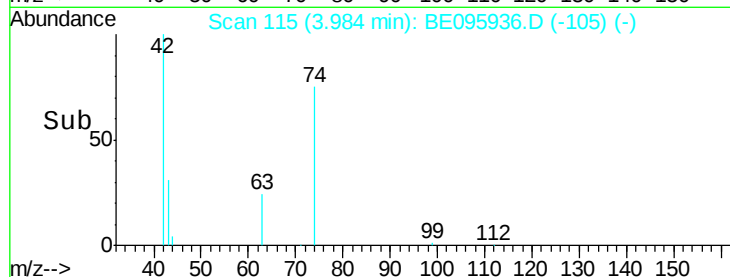
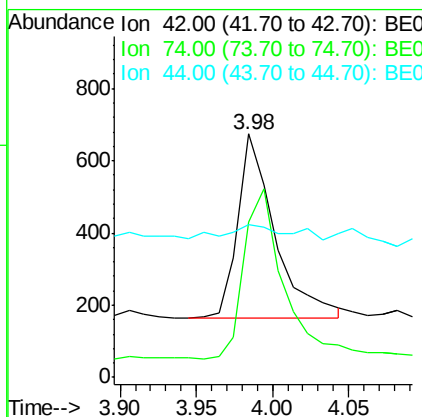
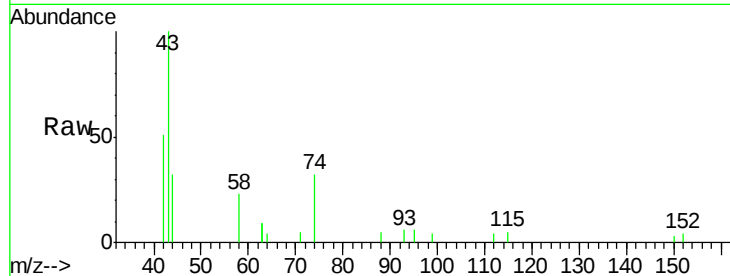
n-Nitrosodimethylamine  
 Concen: 0.259 ng  
 RT: 3.98 min Scan# 115  
 Delta R.T. 0.00 min  
 Lab File: BE095936.D  
 Acq: 2 Apr 2018 20:17

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB107891BSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 856   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 99.3  | 96.0  | 144.0 |
| 44       | 13.8  | 12.0  | 18.0  |

Manual Integrations  
 APPROVED

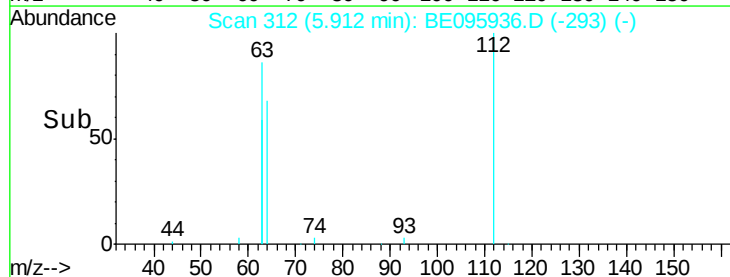
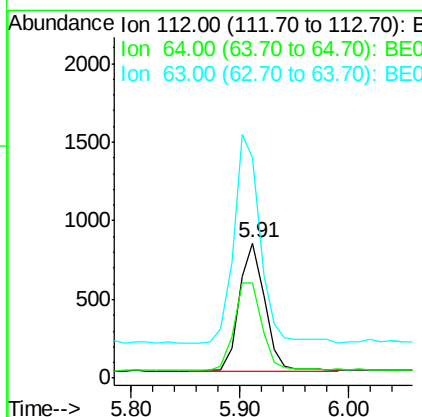
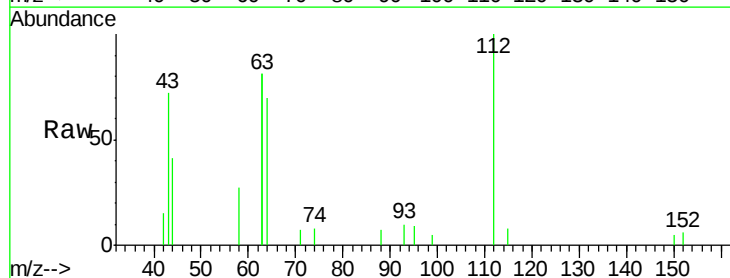
Sohil  
 4/12/2018 6:45:25 PM

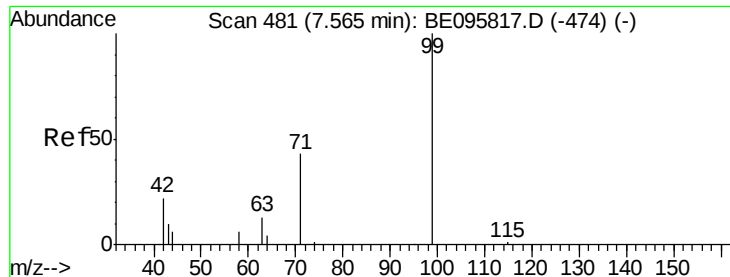


#4

2-Fluorophenol  
 Concen: 0.295 ng  
 RT: 5.91 min Scan# 312  
 Delta R.T. -0.01 min  
 Lab File: BE095936.D  
 Acq: 2 Apr 2018 20:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 1337  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 74.9  | 60.1  | 90.1  |
| 63       | 167.4 | 116.8 | 175.2 |





#5

Phenol-d6

Concen: 0.296 ng

RT: 7.56 min Scan# 480

Delta R.T. -0.01 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

Instrument :

BNA\_E

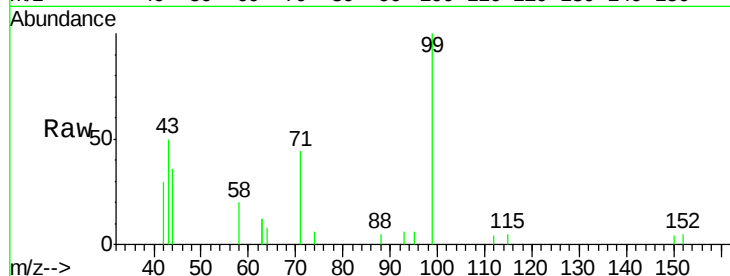
ClientSampled :

PB107891BSD

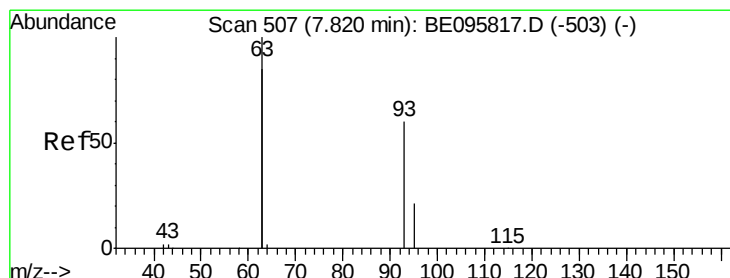
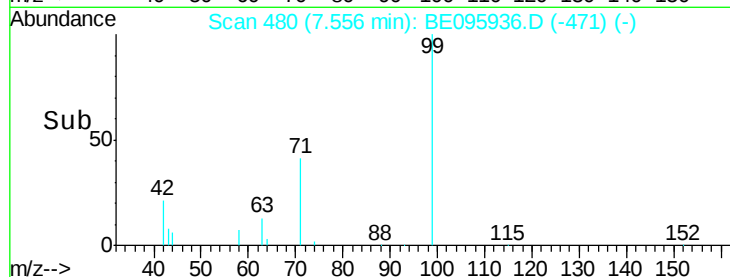
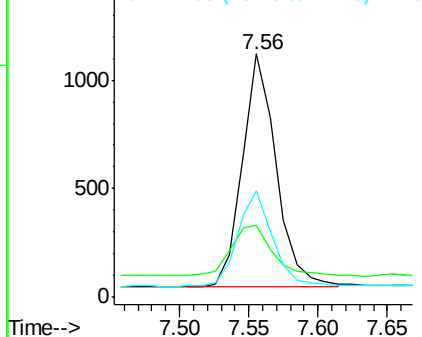
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 1843  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 25.7  | 20.2  | 30.2  |
| 71       | 42.2  | 28.4  | 42.6  |

Manual Integrations  
APPROVED

Sohil  
4/12/2018 6:45:25 PM



Abundance Ion 99.00 (98.70 to 99.70): BE0  
Ion 42.00 (41.70 to 42.70): BE0  
Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.272 ng

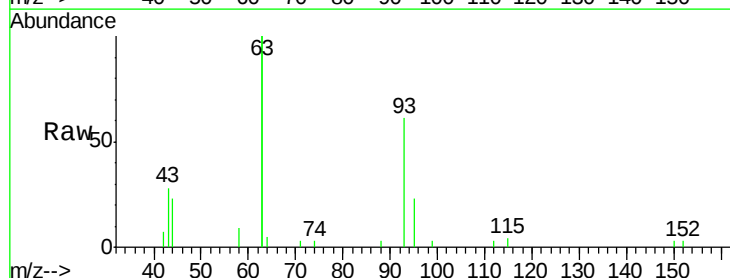
RT: 7.81 min Scan# 506

Delta R.T. -0.01 min

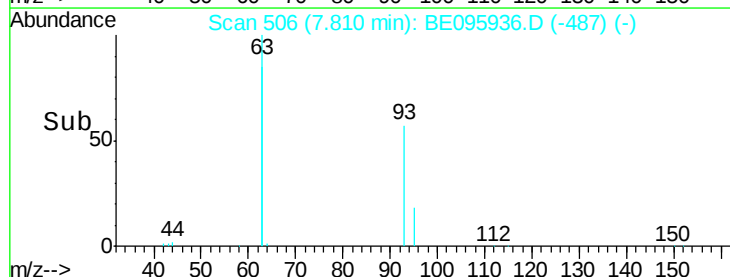
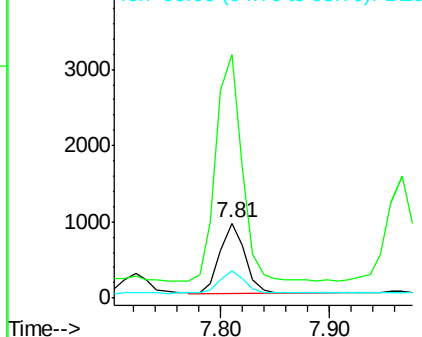
Lab File: BE095936.D

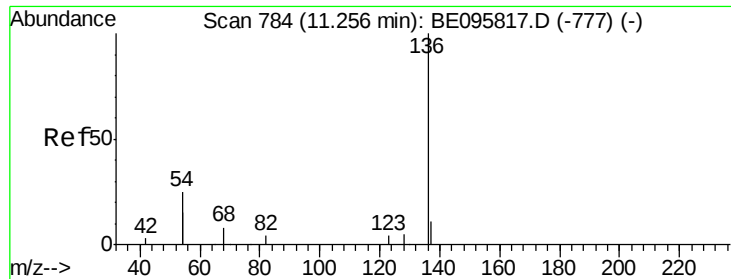
Acq: 2 Apr 2018 20:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1460  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 337.4 | 275.3 | 412.9 |
| 95       | 32.7  | 25.2  | 37.8  |



Abundance Ion 93.00 (92.70 to 93.70): BE0  
Ion 63.00 (62.70 to 63.70): BE0  
Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.26 min Scan# 784

Delta R.T. -0.00 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

Instrument :

BNA\_E

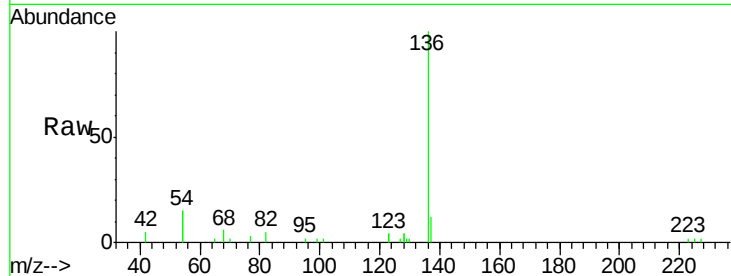
ClientSampleId :

PB107891BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 12.1  | 9.5   | 14.3  |
| 54      | 29.4  | 29.1  | 43.7  |
| 68      | 6.2   | 6.2   | 9.2   |

Manual Integrations  
APPROVED

Sohil  
4/12/2018 6:45:25 PM

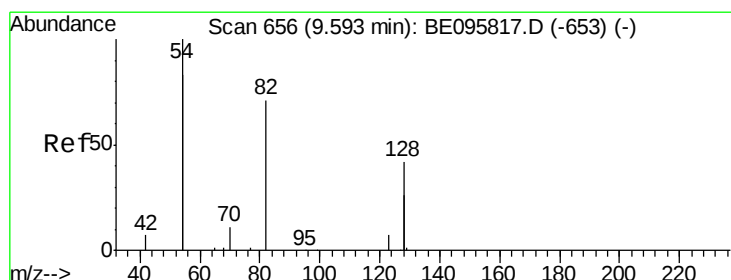
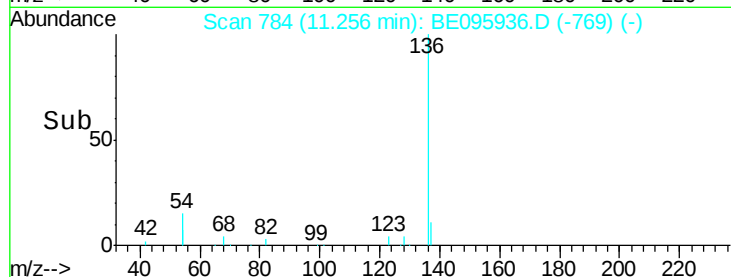
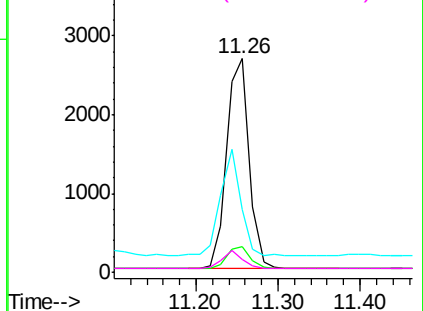


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.333 ng m

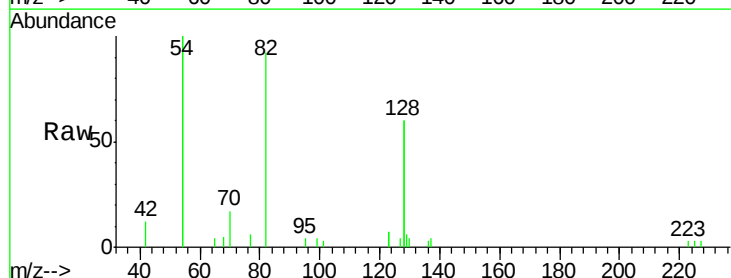
RT: 9.59 min Scan# 656

Delta R.T. -0.00 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

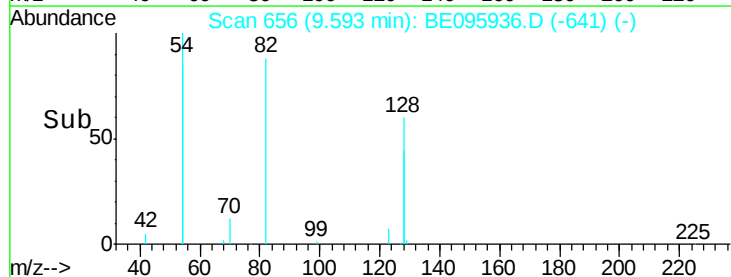
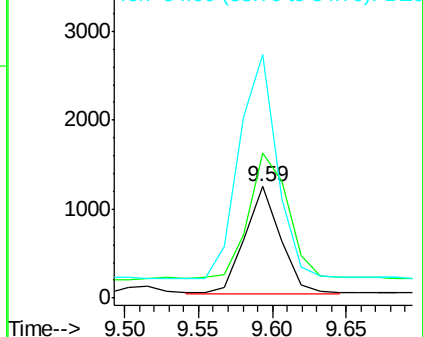
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 82      | 100   |       |        |
| 128     | 65.2  | 150.0 | 225.0# |
| 54      | 109.0 | 154.2 | 231.4# |

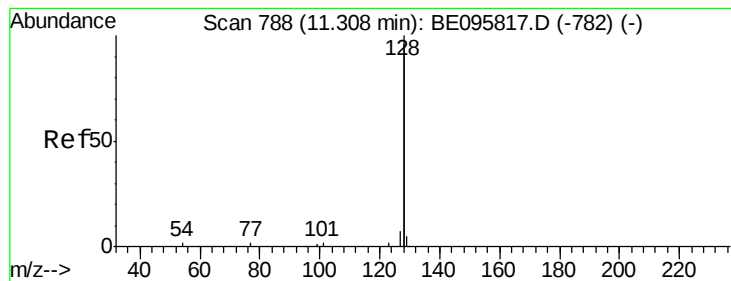


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.294 ng

RT: 11.30 min Scan# 787

Delta R.T. -0.01 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

Instrument :

BNA\_E

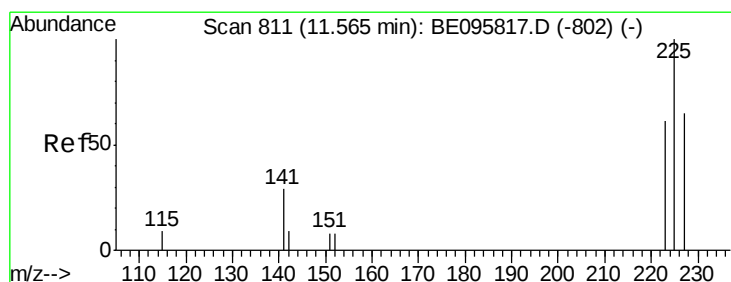
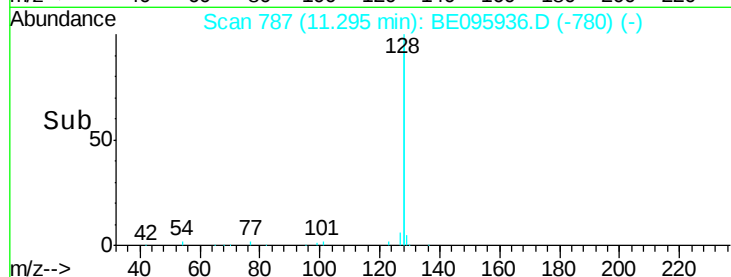
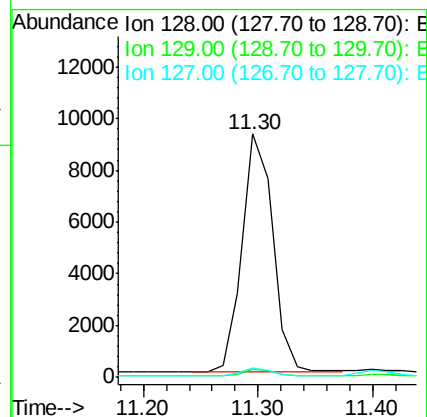
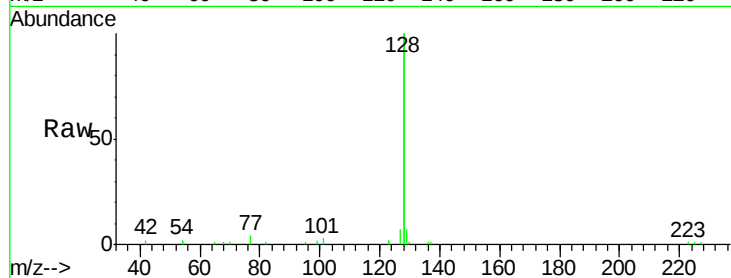
ClientSampleId :

PB107891BSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 17108 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 3.3   | 2.6   | 3.8   |
| 127       | 3.7   | 2.8   | 4.2   |

Manual Integrations  
APPROVED

Sohil  
4/12/2018 6:45:25 PM



#10

Hexachlorobutadiene

Concen: 0.279 ng

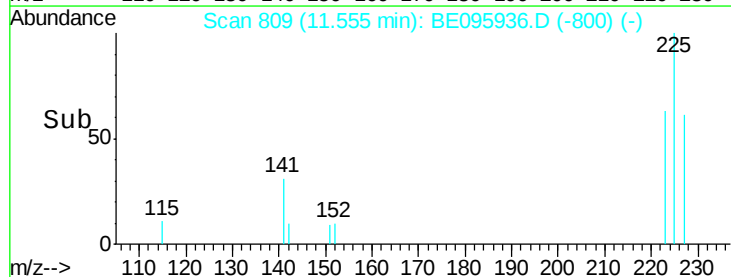
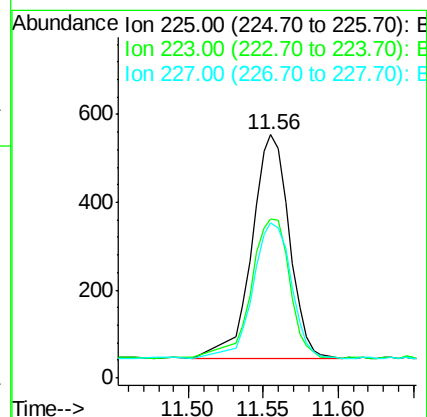
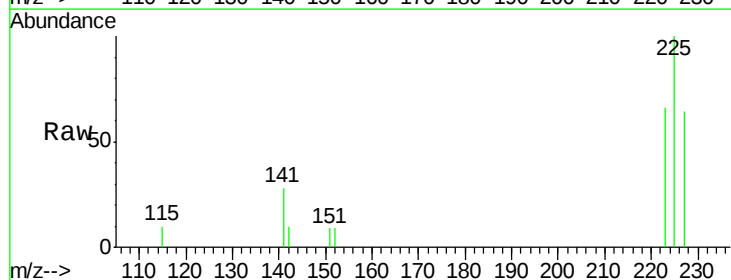
RT: 11.56 min Scan# 809

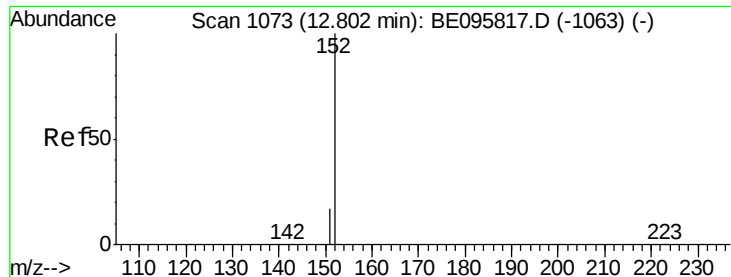
Delta R.T. -0.01 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 1116 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 64.3  | 53.0  | 79.6 |
| 227       | 61.6  | 51.4  | 77.2 |





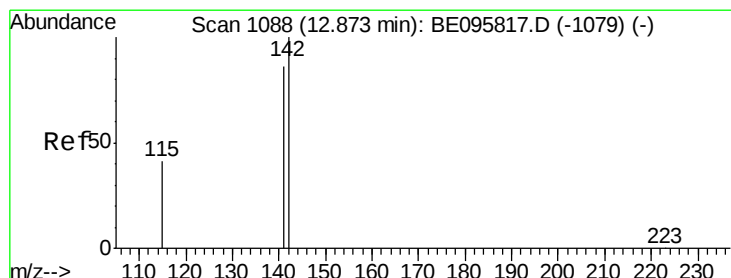
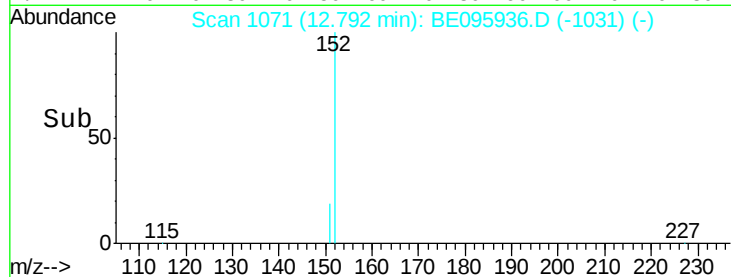
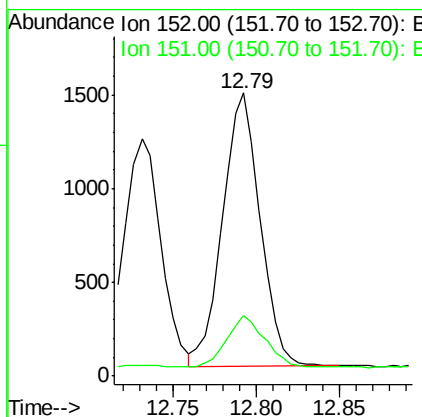
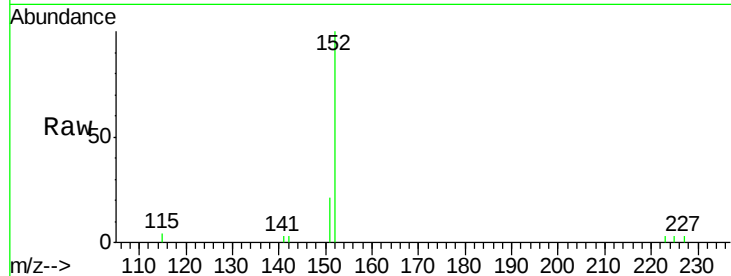
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.269 ng  
 RT: 12.79 min Scan# 1071  
 Delta R.T. -0.01 min  
 Lab File: BE095936.D  
 Acq: 2 Apr 2018 20:17

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB107891BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.3  | 15.4  | 23.0  |

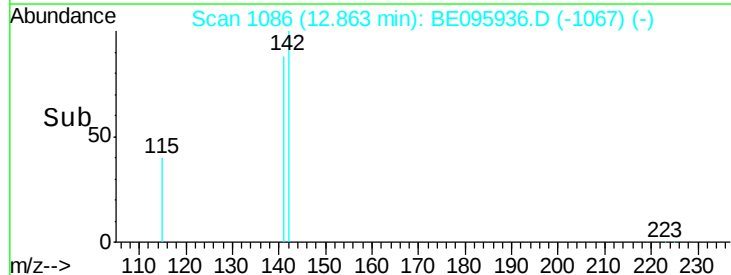
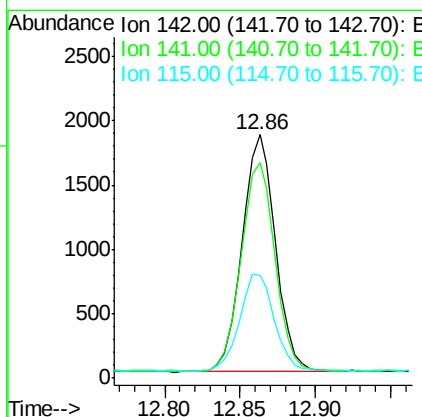
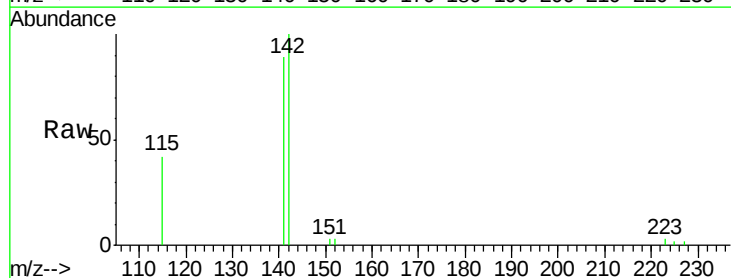
Manual Integrations  
 APPROVED

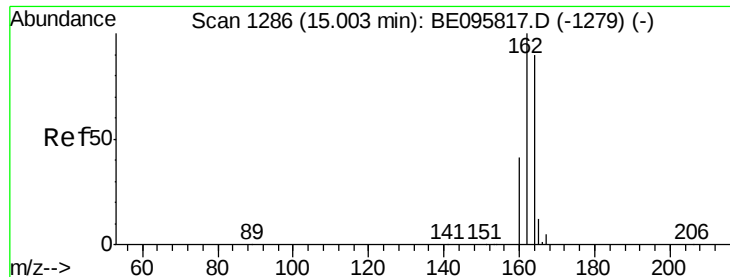
Sohil  
 4/12/2018 6:45:25 PM



#12  
 2-Methylnaphthalene  
 Concen: 0.288 ng  
 RT: 12.86 min Scan# 1086  
 Delta R.T. -0.01 min  
 Lab File: BE095936.D  
 Acq: 2 Apr 2018 20:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.6  | 70.4  | 105.6 |
| 115     | 42.4  | 31.7  | 47.5  |





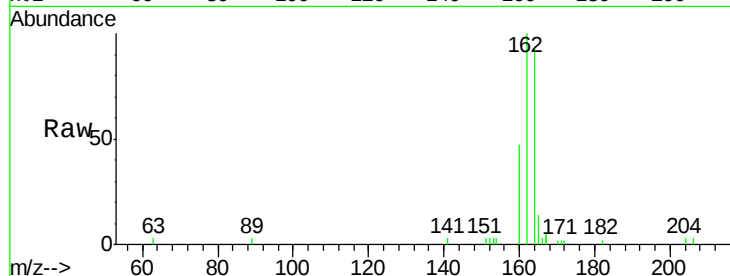
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.99 min Scan# 1285  
 Delta R.T. -0.01 min  
 Lab File: BE095936.D  
 Acq: 2 Apr 2018 20:17

Instrument :  
 BNA\_E  
 ClientSampled :  
 PB107891BSD

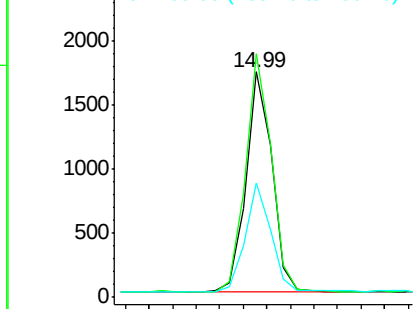
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 107.9 | 83.1  | 124.7 |
| 160     | 50.9  | 37.1  | 55.7  |

Manual Integrations  
 APPROVED

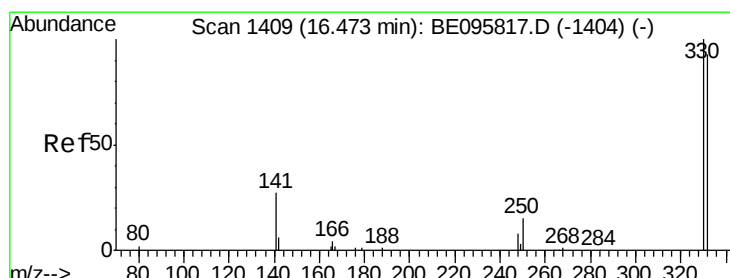
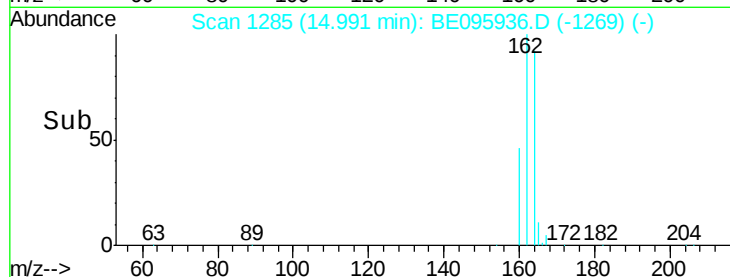
Sohil  
 4/12/2018 6:45:25 PM



Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

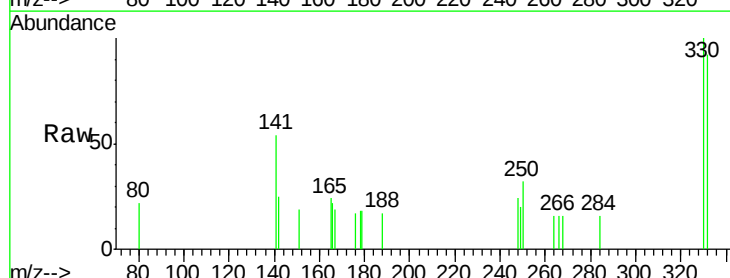


Time-->

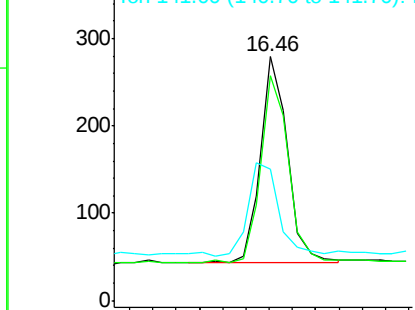


#14  
 2,4,6-Tribromophenol  
 Concen: 0.249 ng  
 RT: 16.46 min Scan# 1408  
 Delta R.T. -0.01 min  
 Lab File: BE095936.D  
 Acq: 2 Apr 2018 20:17

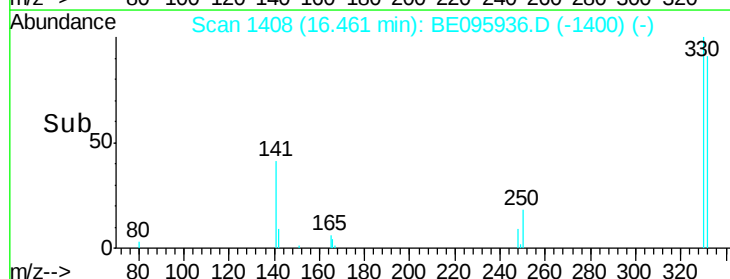
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 330     | 100   |       |        |
| 332     | 93.7  | 152.7 | 229.1# |
| 141     | 51.9  | 33.7  | 50.5#  |

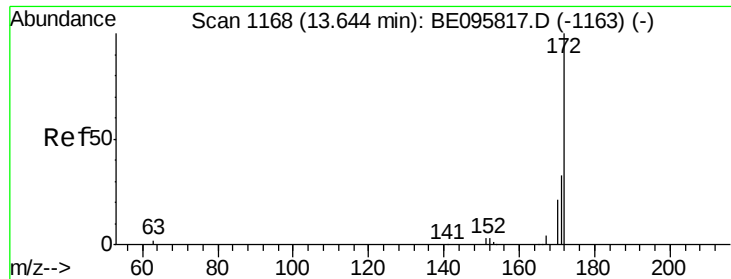


Abundance Ion 330.00 (329.70 to 330.70): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E



Time-->





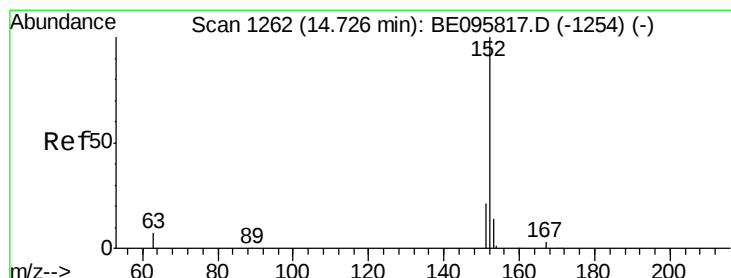
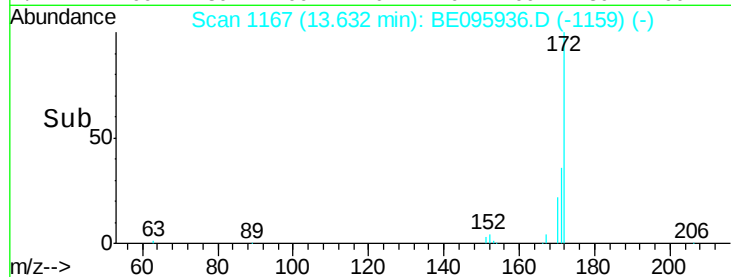
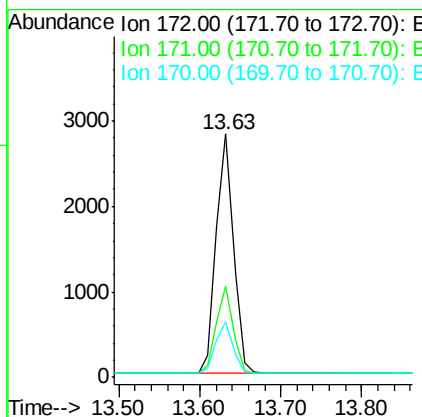
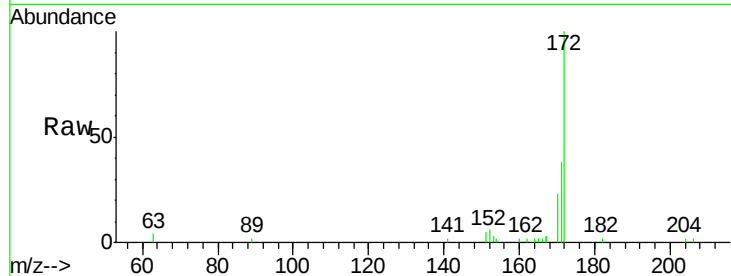
#15  
2-Fluorobiphenyl  
Concen: 0.380 ng  
RT: 13.63 min Scan# 1167  
Delta R.T. -0.01 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

Instrument :  
BNA\_E  
ClientSampleId :  
PB107891BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.6  | 29.9  | 44.9  |
| 170     | 22.9  | 21.8  | 32.8  |

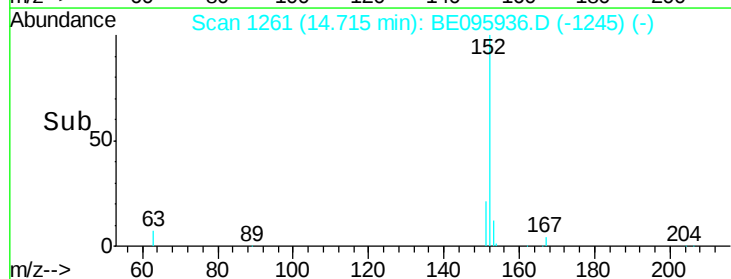
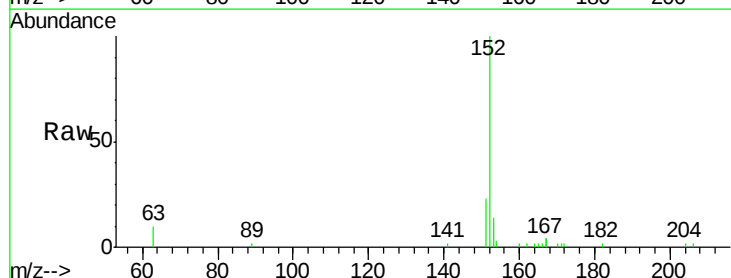
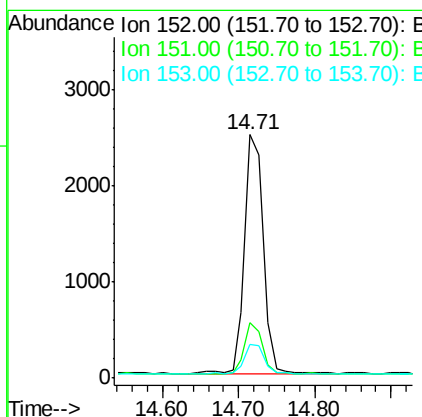
Manual Integrations  
APPROVED

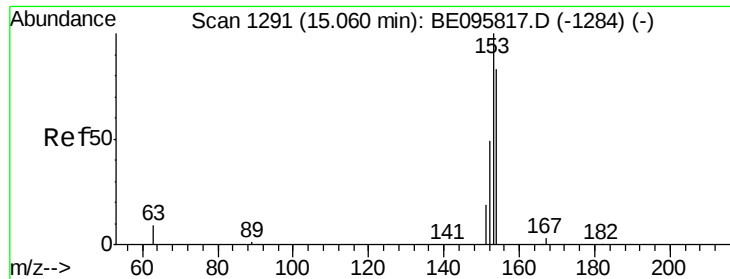
Sohil  
4/12/2018 6:45:25 PM



#16  
Acenaphthylene  
Concen: 0.282 ng  
RT: 14.71 min Scan# 1261  
Delta R.T. -0.01 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.3  | 15.7  | 23.5  |
| 153     | 12.6  | 10.5  | 15.7  |





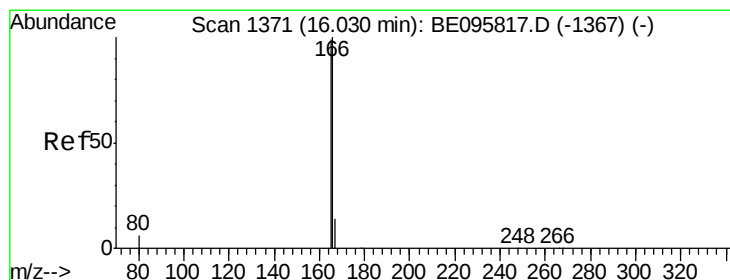
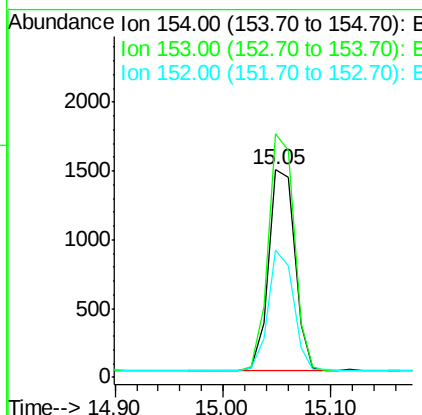
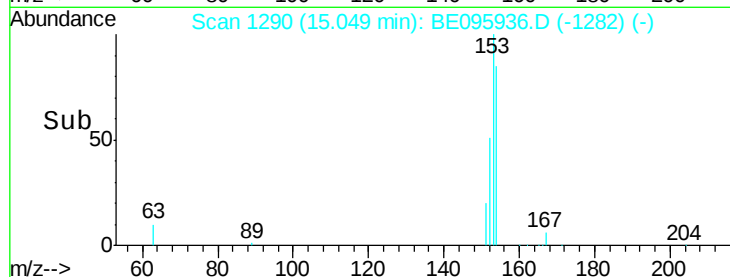
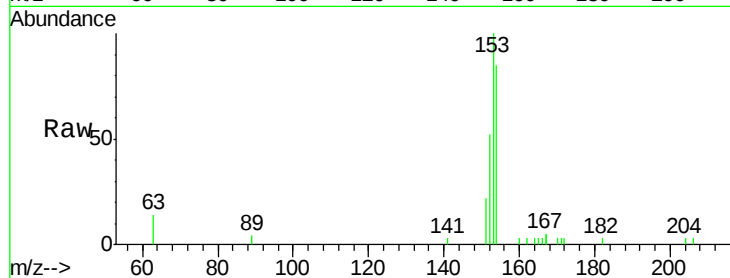
#17  
Acenaphthene  
Concen: 0.273 ng  
RT: 15.05 min Scan# 1290  
Delta R.T. -0.01 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

Instrument :  
BNA\_E  
ClientSampleId :  
PB107891BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 115.9 | 89.2  | 133.8 |
| 152     | 56.9  | 42.0  | 63.0  |

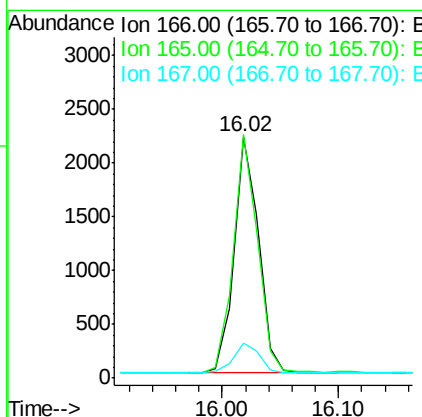
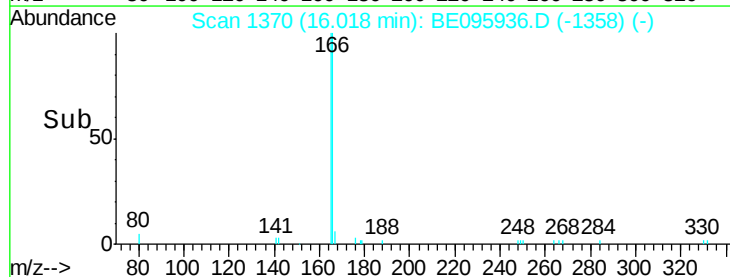
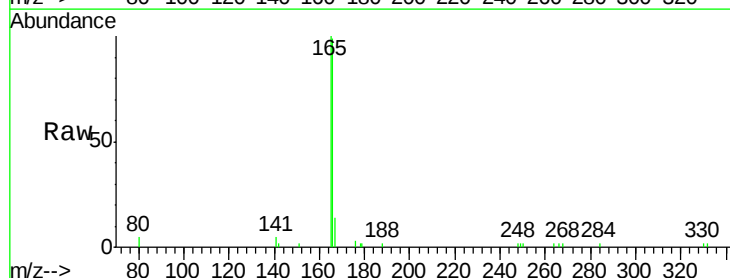
Manual Integrations  
APPROVED

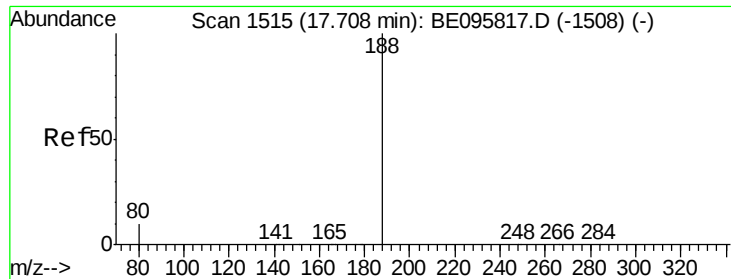
Sohil  
4/12/2018 6:45:25 PM



#18  
Fluorene  
Concen: 0.267 ng  
RT: 16.02 min Scan# 1370  
Delta R.T. -0.01 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.4  | 77.8  | 116.6 |
| 167     | 13.2  | 42.4  | 63.6# |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.70 min Scan# 1514

Delta R.T. -0.01 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

Instrument :

BNA\_E

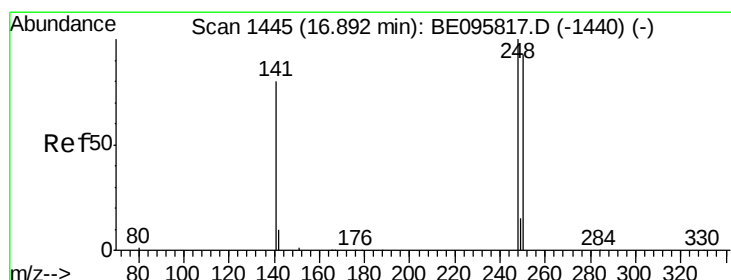
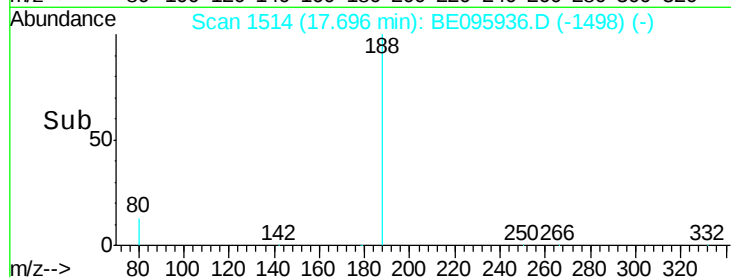
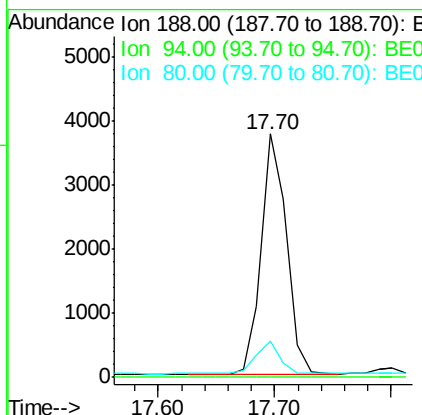
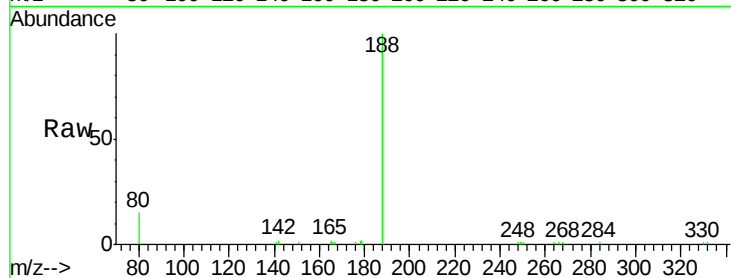
ClientSampleId :

PB107891BSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 188   | Resp: | 5710 |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 3.9   | 5.9# |
| 80        | 14.8  | 3.6   | 5.4# |

Manual Integrations  
APPROVED

Sohil  
4/12/2018 6:45:25 PM



#20

4-Bromophenyl-phenylether

Concen: 0.294 ng

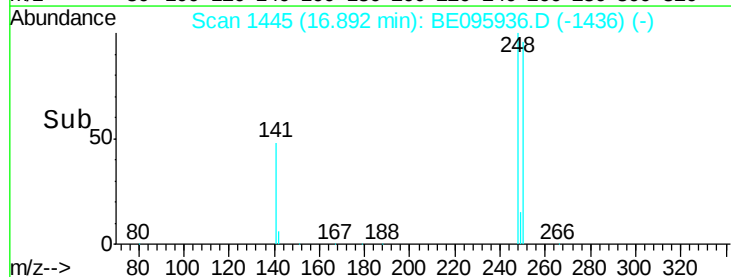
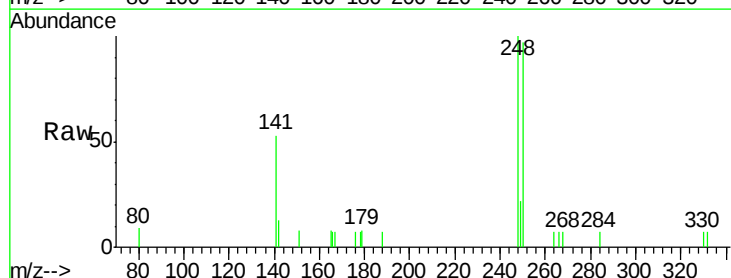
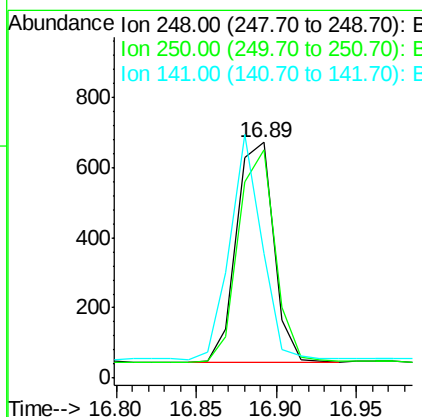
RT: 16.89 min Scan# 1445

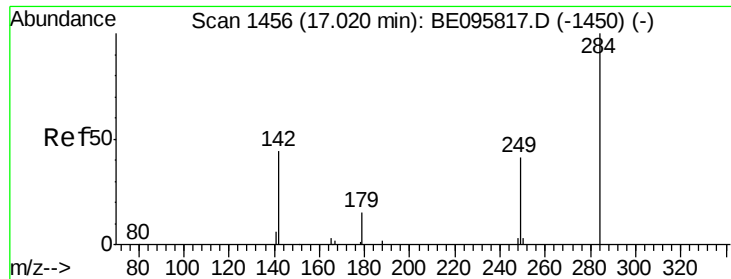
Delta R.T. -0.00 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 1008  |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 96.9  | 62.7  | 94.1# |
| 141       | 52.7  | 48.2  | 72.2  |





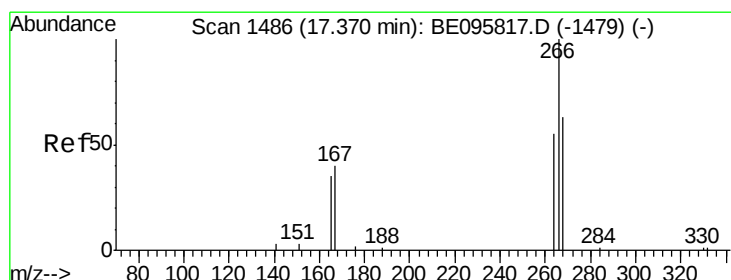
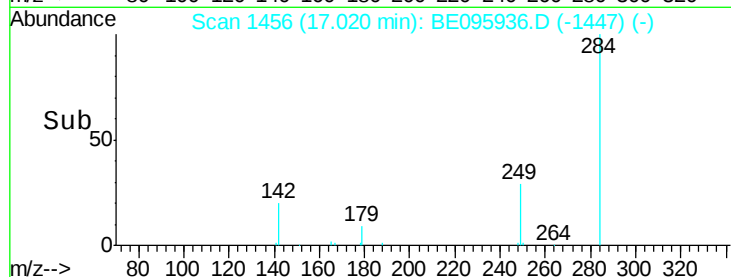
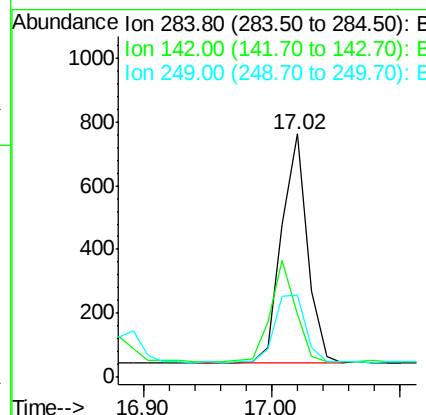
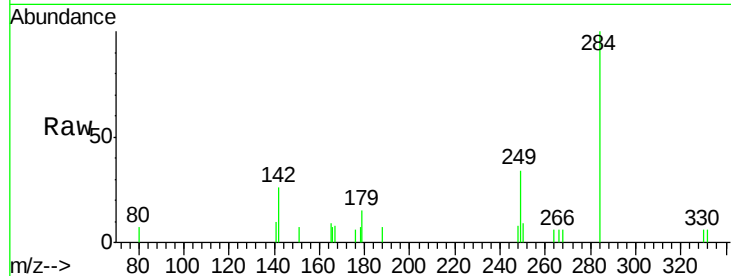
#21  
Hexachlorobenzene  
Concen: 0.294 ng  
RT: 17.02 min Scan# 1456  
Delta R.T. -0.00 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

Instrument :  
BNA\_E  
ClientSampleId :  
PB107891BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 43.3  | 22.1  | 33.1# |
| 249     | 35.9  | 34.8  | 52.2  |

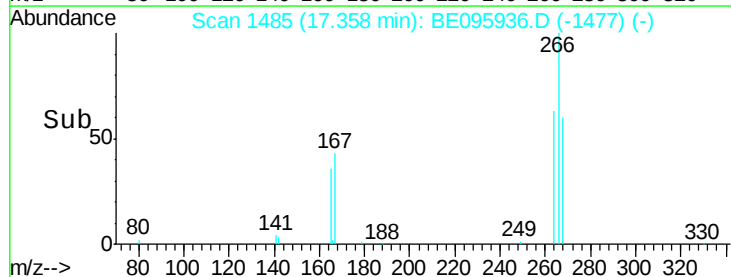
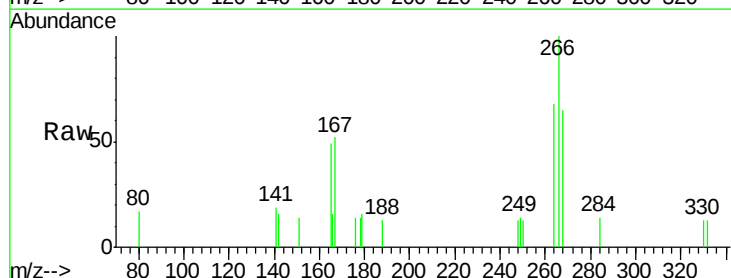
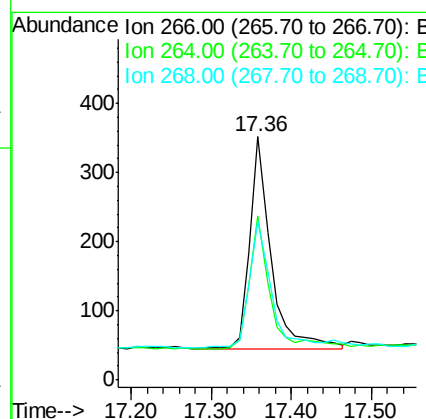
Manual Integrations  
APPROVED

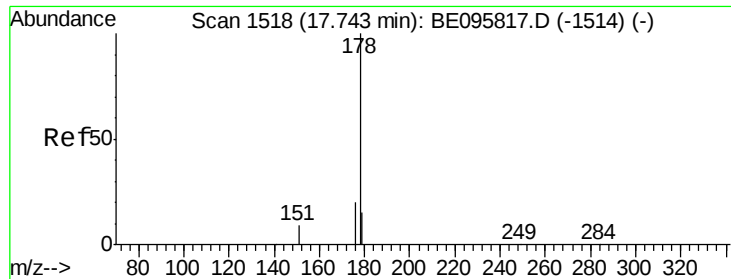
Sohil  
4/12/2018 6:45:25 PM



#22  
Pentachlorophenol  
Concen: 0.569 ng  
RT: 17.36 min Scan# 1485  
Delta R.T. -0.01 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 266     | 100   |       |        |
| 264     | 67.6  | 72.5  | 108.7# |
| 268     | 65.3  | 73.8  | 110.6# |





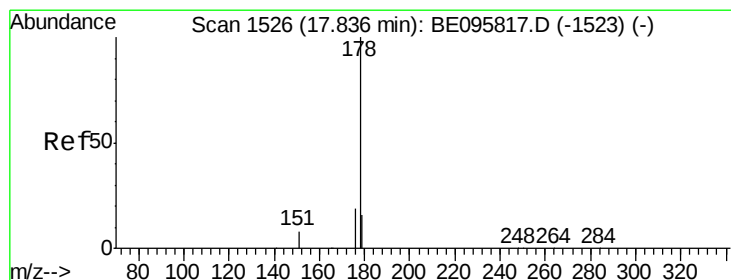
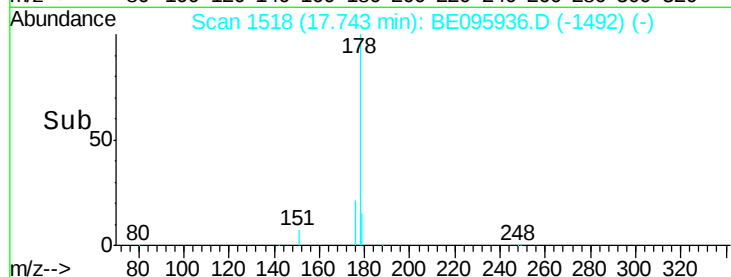
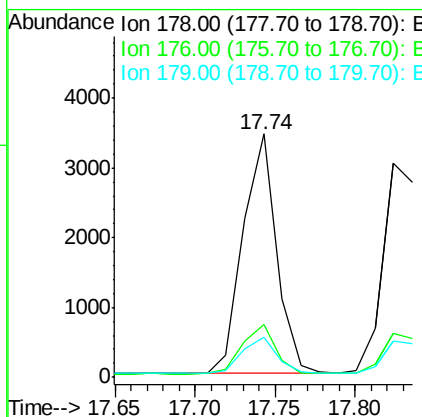
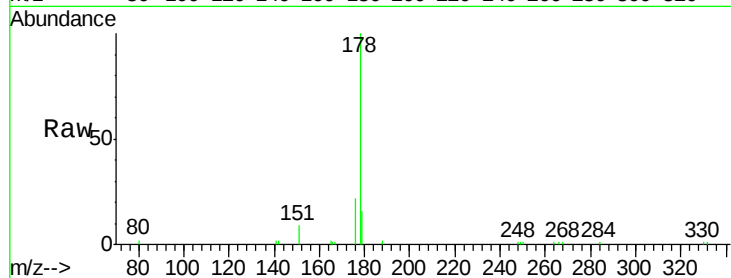
#23  
Phenanthrene  
Concen: 0.291 ng  
RT: 17.74 min Scan# 1518  
Delta R.T. -0.00 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

Instrument :  
BNA\_E  
ClientSampleId :  
PB107891BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.5  | 15.1  | 22.7  |
| 179     | 15.4  | 11.8  | 17.6  |

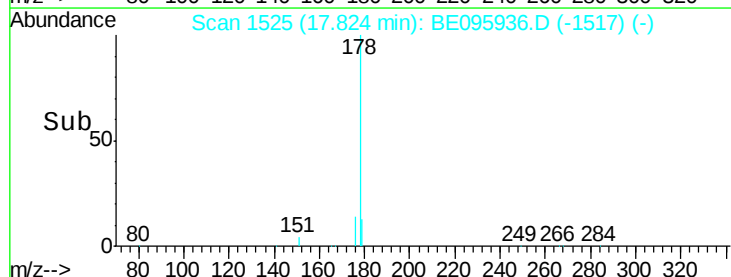
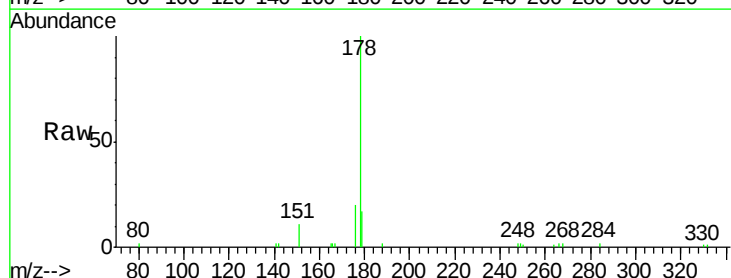
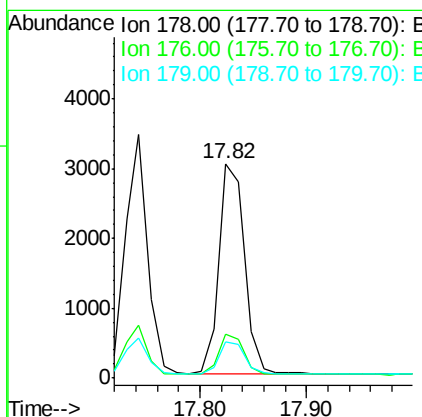
Manual Integrations  
APPROVED

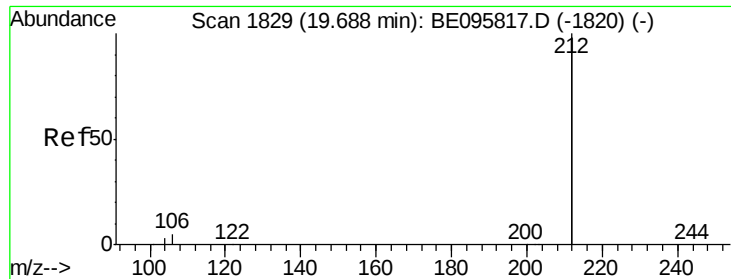
Sohil  
4/12/2018 6:45:25 PM



#24  
Anthracene  
Concen: 0.294 ng  
RT: 17.82 min Scan# 1525  
Delta R.T. -0.01 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.8  | 12.8  | 19.2  |
| 179     | 15.3  | 13.0  | 19.6  |





#25

Fluoranthene-d10

Concen: 0.266 ng

RT: 19.68 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

Instrument :

BNA\_E

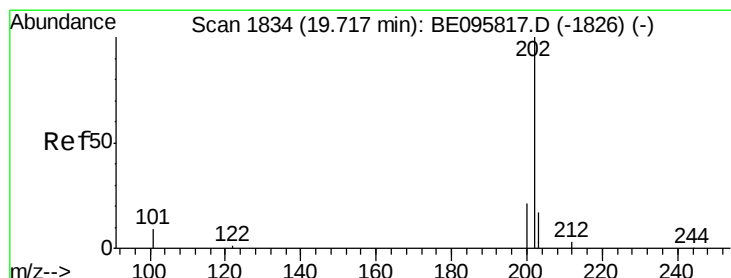
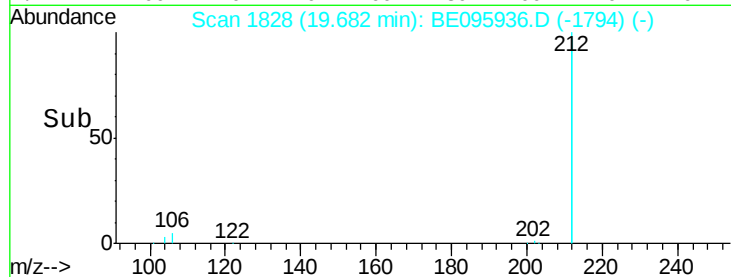
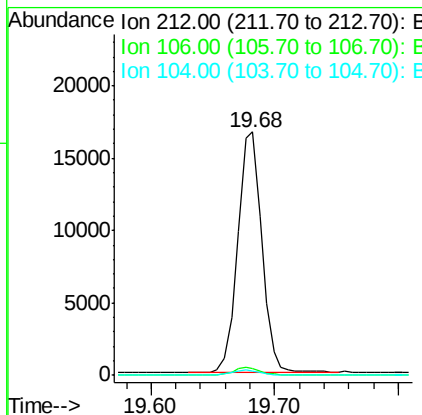
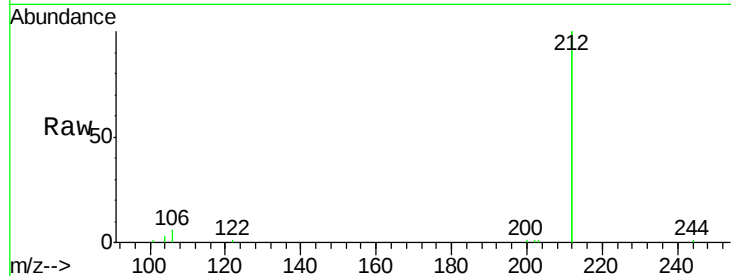
ClientSampleId :

PB107891BSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 22518 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 2.9   | 2.8   | 4.2   |
| 104       | 1.7   | 1.6   | 2.4   |

Manual Integrations  
APPROVED

Sohil  
4/12/2018 6:45:25 PM



#26

Fluoranthene

Concen: 0.284 ng

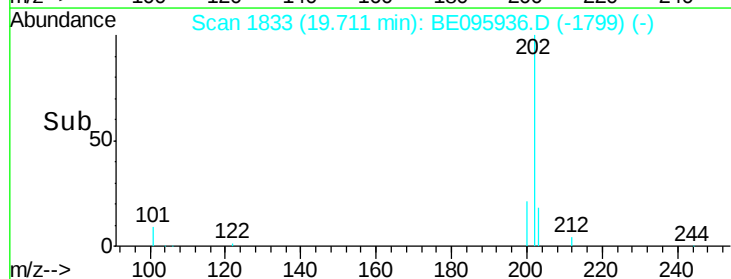
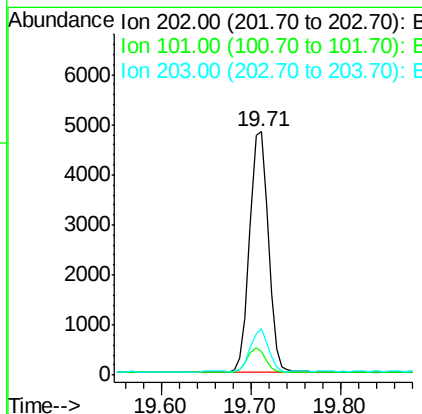
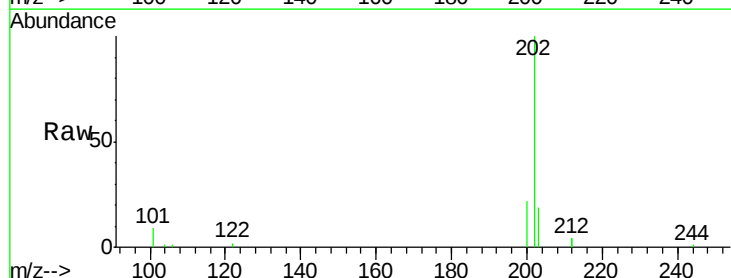
RT: 19.71 min Scan# 1833

Delta R.T. -0.01 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 6749  |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 9.8   | 9.8   | 14.8# |
| 203       | 16.6  | 13.7  | 20.5  |





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.79 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

Instrument :

BNA\_E

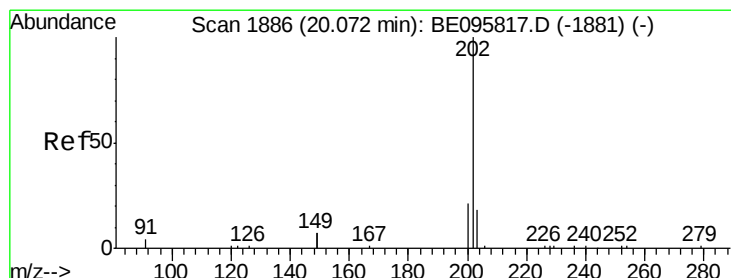
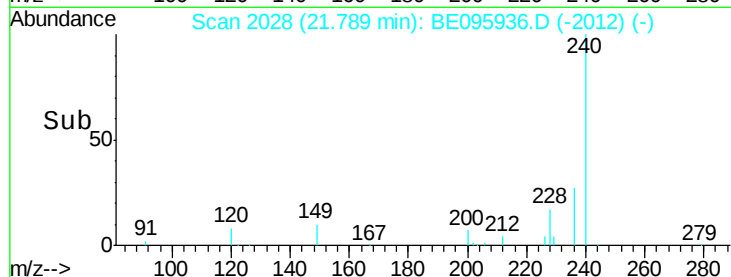
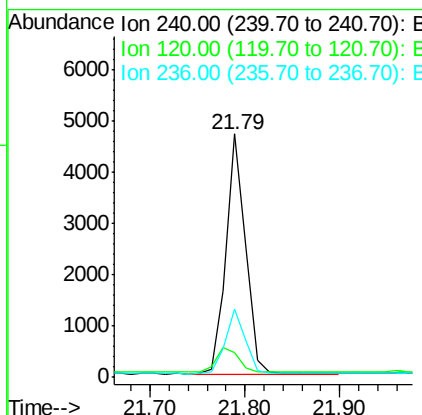
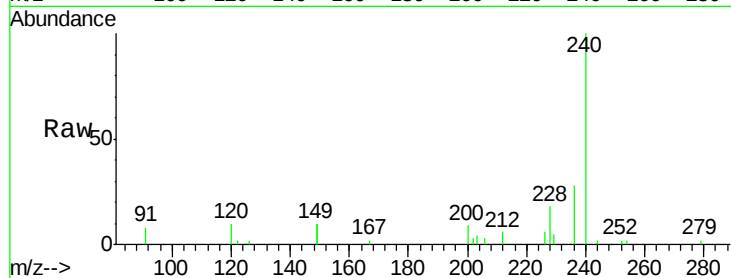
ClientSampleId :

PB107891BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.4  | 5.5   | 8.3#  |
| 236     | 27.9  | 20.7  | 31.1  |

Manual Integrations  
APPROVED

Sohil  
4/12/2018 6:45:25 PM



#28

Pyrene

Concen: 0.290 ng

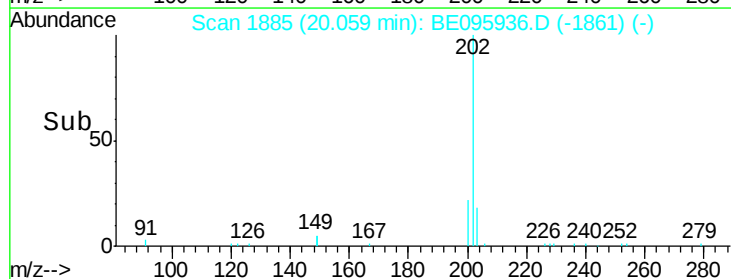
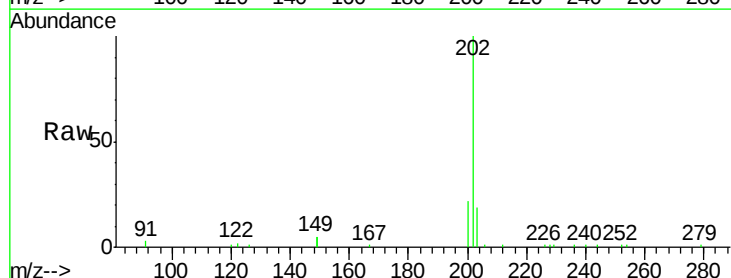
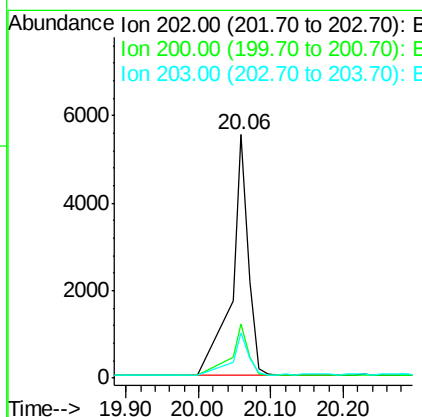
RT: 20.06 min Scan# 1885

Delta R.T. -0.01 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.0  | 16.6  | 25.0  |
| 203     | 17.2  | 13.8  | 20.8  |





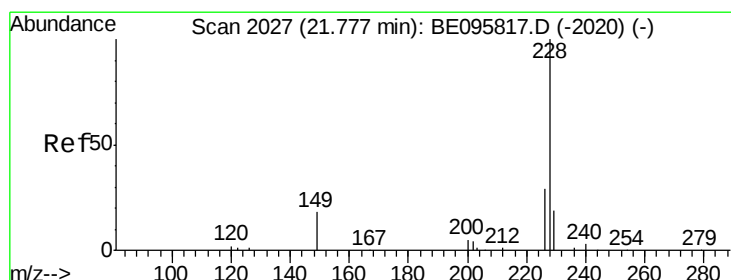
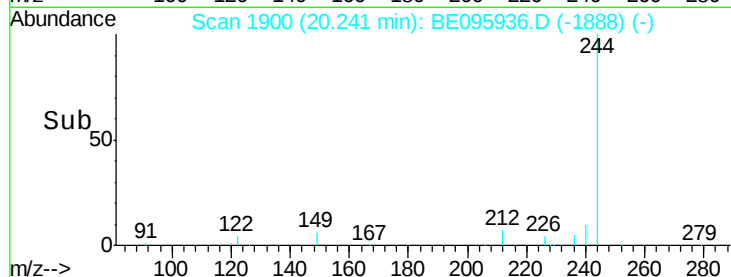
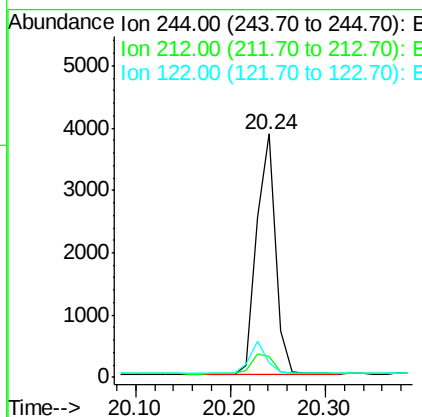
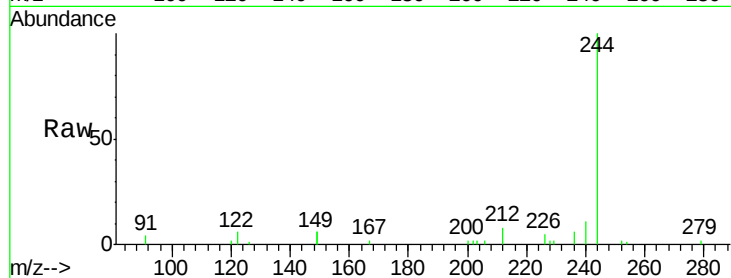
#29  
 Terphenyl-d14  
 Concen: 0.373 ng  
 RT: 20.24 min Scan# 1900  
 Delta R.T. -0.00 min  
 Lab File: BE095936.D  
 Acq: 2 Apr 2018 20:17

Instrument :  
 BNA\_E  
 ClientSampleID :  
 PB107891BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.4   | 25.4  | 38.0# |
| 122     | 5.9   | 8.1   | 12.1# |

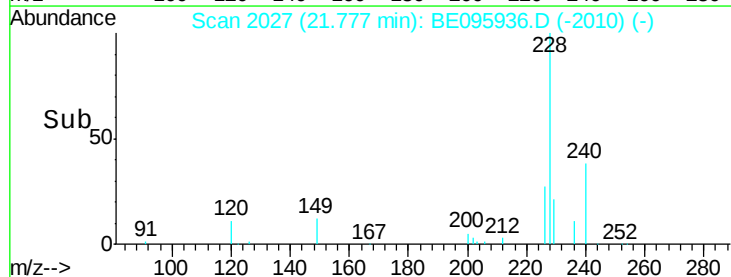
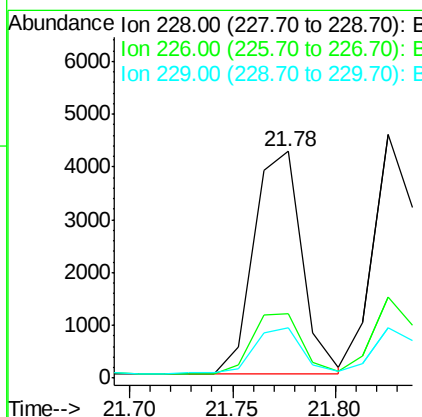
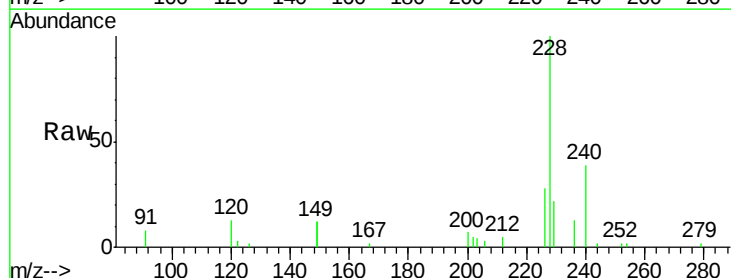
Manual Integrations  
 APPROVED

Sohil  
 4/12/2018 6:45:25 PM



#30  
 Benzo(a)anthracene  
 Concen: 0.298 ng  
 RT: 21.78 min Scan# 2027  
 Delta R.T. -0.00 min  
 Lab File: BE095936.D  
 Acq: 2 Apr 2018 20:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.3  | 24.0  | 36.0  |
| 229     | 22.4  | 16.0  | 24.0  |





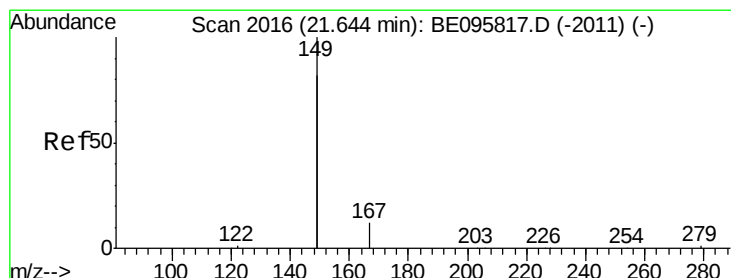
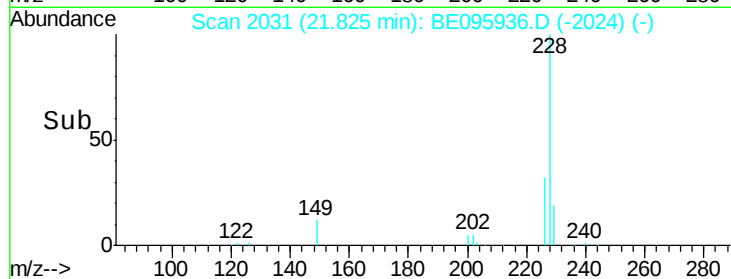
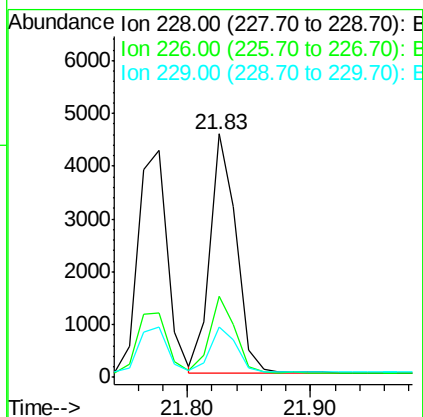
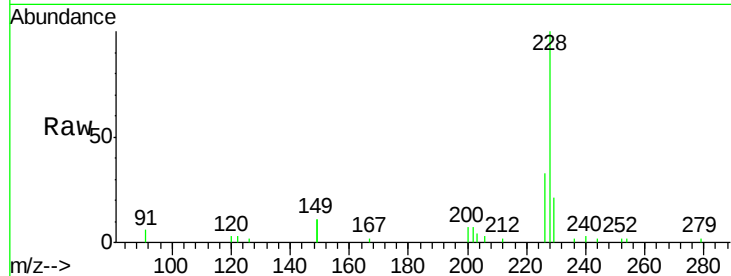
#31  
Chrysene  
Concen: 0.315 ng  
RT: 21.83 min Scan# 2031  
Delta R.T. -0.01 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

Instrument :  
BNA\_E  
ClientSampleId :  
PB107891BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.4  | 24.0  | 36.0  |
| 229     | 20.5  | 16.0  | 24.0  |

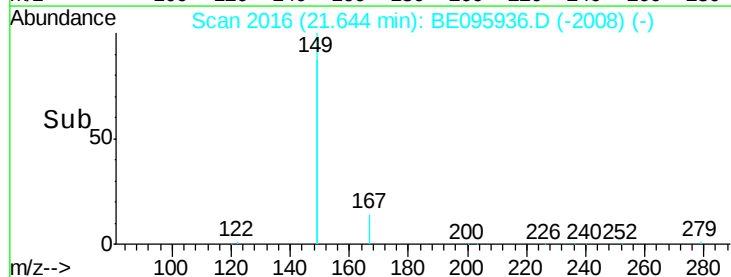
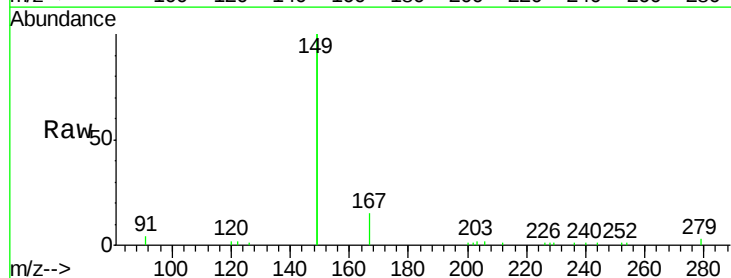
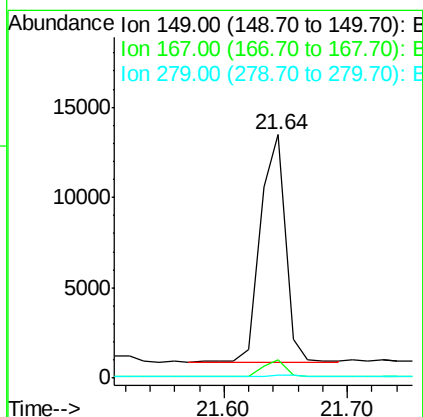
Manual Integrations  
APPROVED

Sohil  
4/12/2018 6:45:25 PM



#32  
Bis(2-ethylhexyl)phthalate  
Concen: 0.250 ng  
RT: 21.64 min Scan# 2016  
Delta R.T. -0.00 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 7.1   | 5.4   | 8.0   |
| 279     | 1.0   | 0.7   | 1.1   |





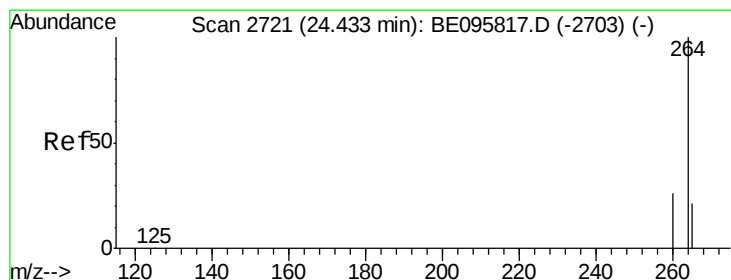
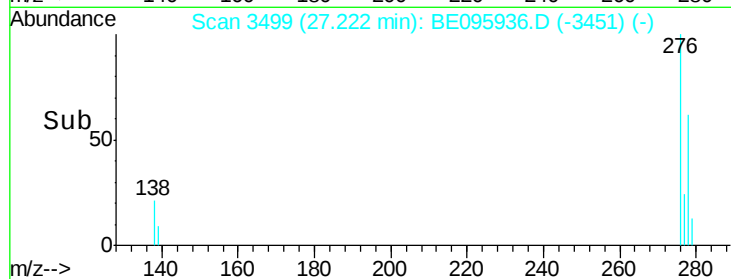
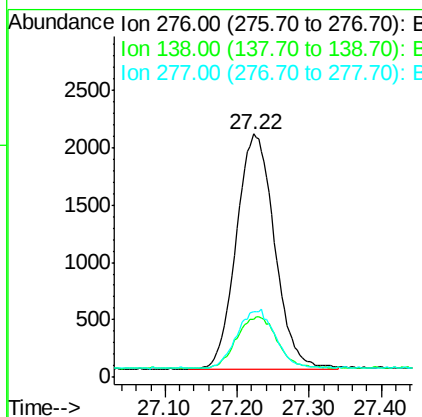
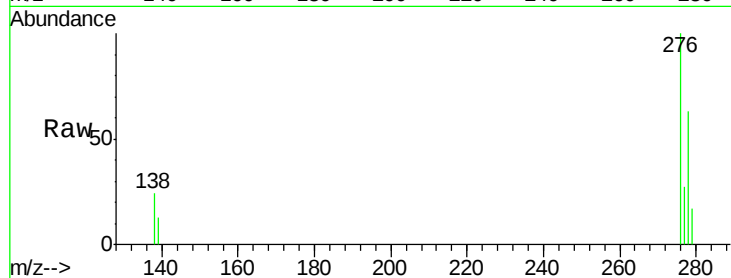
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.324 ng  
RT: 27.22 min Scan# 3499  
Delta R.T. -0.03 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

Instrument :  
BNA\_E  
ClientSampleId :  
PB107891BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.0  | 22.5  | 33.7  |
| 277     | 24.7  | 19.9  | 29.9  |

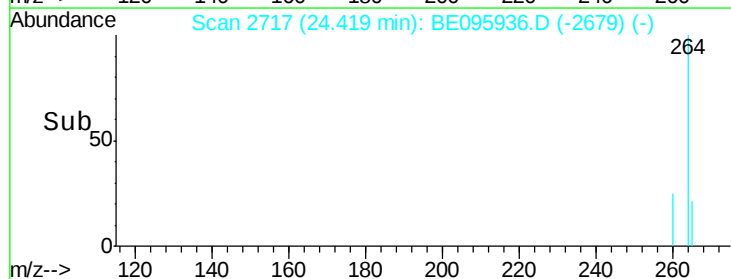
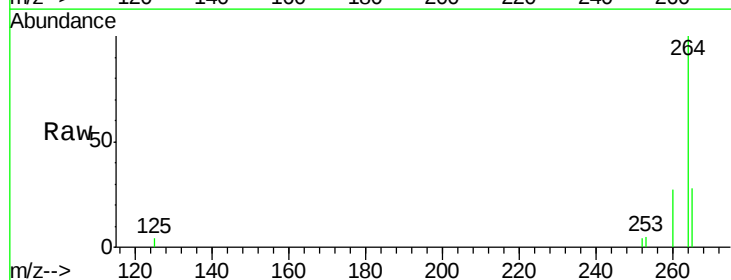
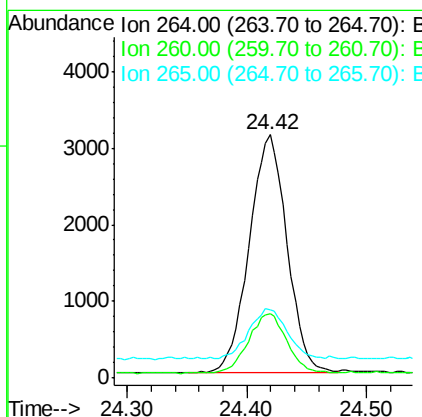
Manual Integrations  
APPROVED

Sohil  
4/12/2018 6:45:25 PM



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 24.42 min Scan# 2717  
Delta R.T. -0.01 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.6  | 20.5  | 30.7  |
| 265     | 28.2  | 22.8  | 34.2  |





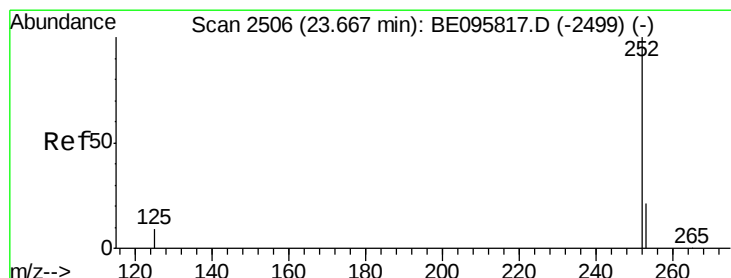
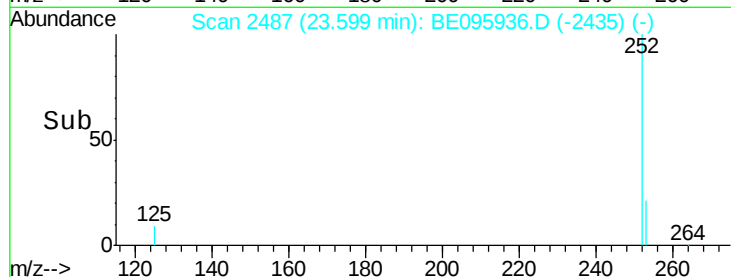
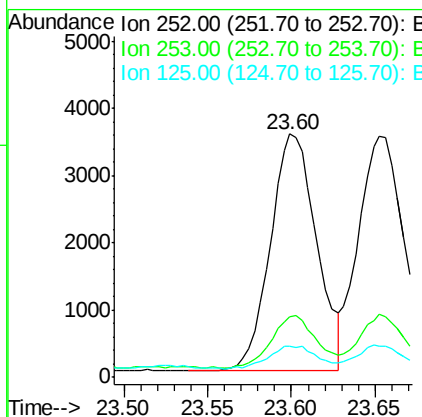
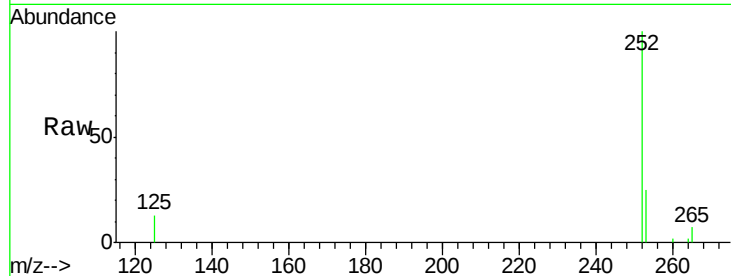
#35  
Benzo(b)fluoranthene  
Concen: 0.301 ng  
RT: 23.60 min Scan# 2487  
Delta R.T. -0.01 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

Instrument :  
BNA\_E  
ClientSampleId :  
PB107891BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 20.0  | 30.0  |
| 125     | 12.8  | 16.0  | 24.0  |

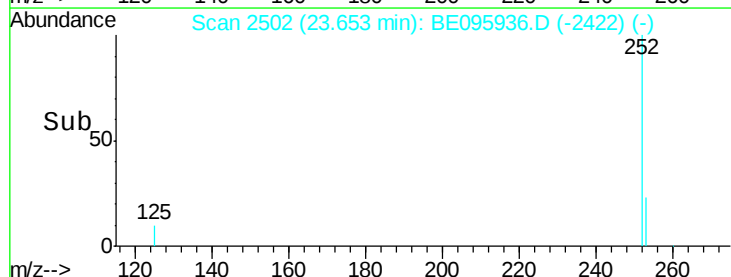
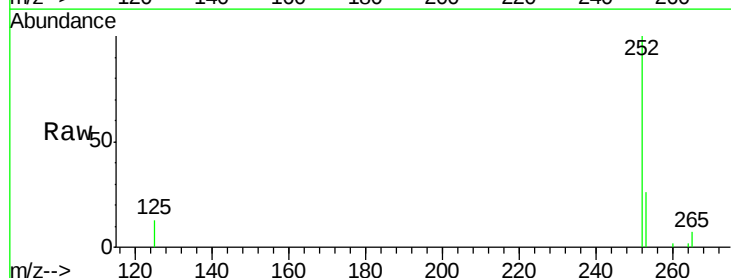
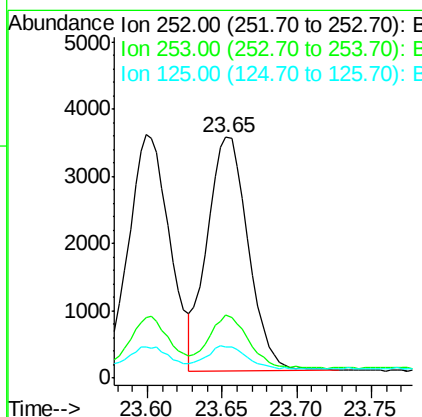
Manual Integrations  
APPROVED

Sohil  
4/12/2018 6:45:25 PM



#36  
Benzo(k)fluoranthene  
Concen: 0.294 ng  
RT: 23.65 min Scan# 2502  
Delta R.T. -0.01 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.2  | 16.0  | 24.0  |
| 125     | 13.1  | 8.0   | 12.0  |





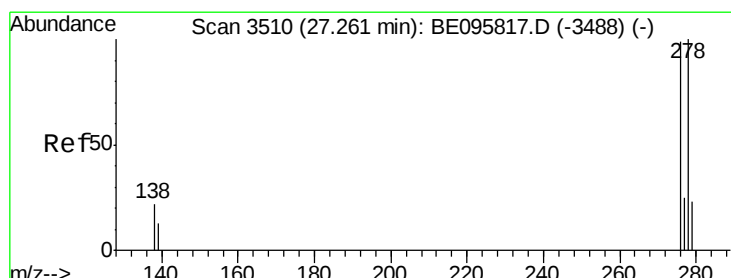
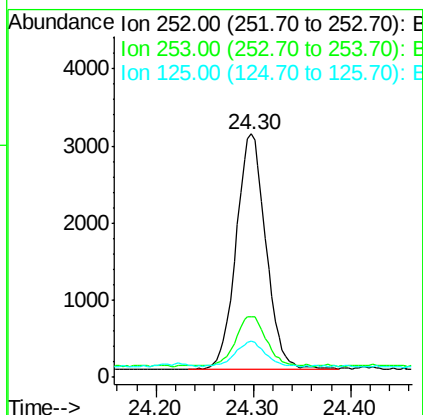
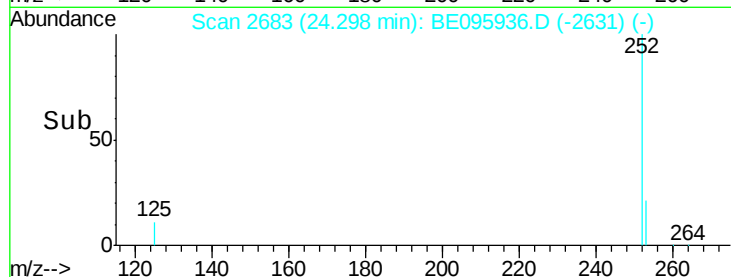
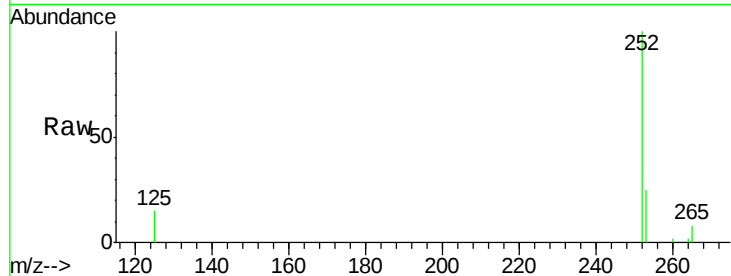
#37  
Benzo(a)pyrene  
Concen: 0.309 ng  
RT: 24.30 min Scan# 2683  
Delta R.T. -0.01 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

Instrument :  
BNA\_E  
ClientSampleId :  
PB107891BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 16.0  | 24.0  |
| 125     | 15.0  | 12.0  | 18.0  |

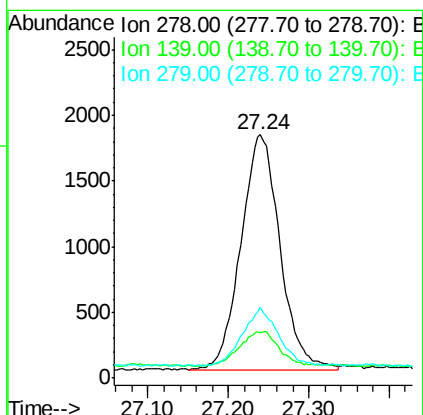
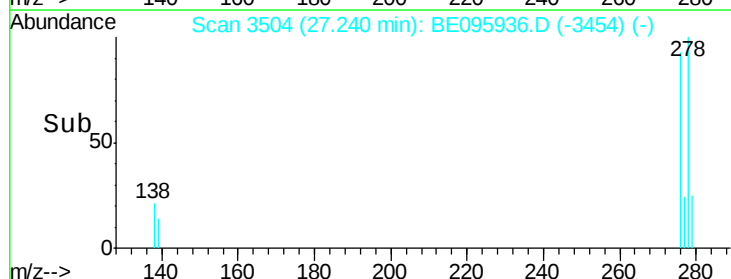
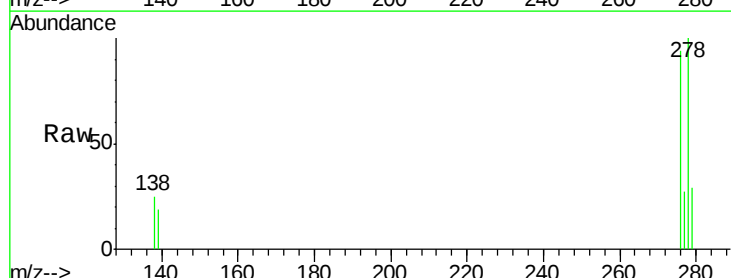
Manual Integrations  
APPROVED

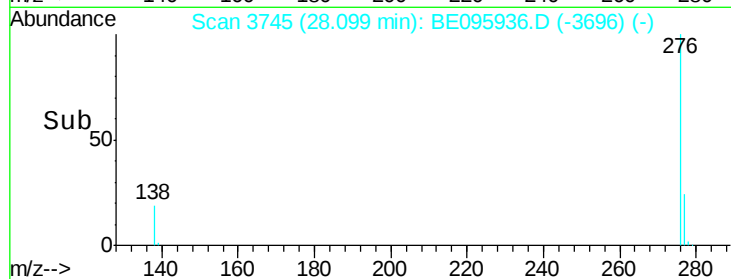
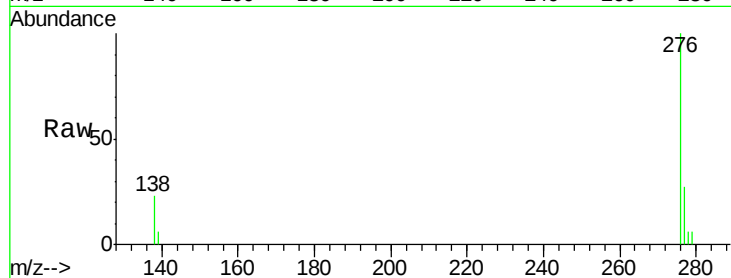
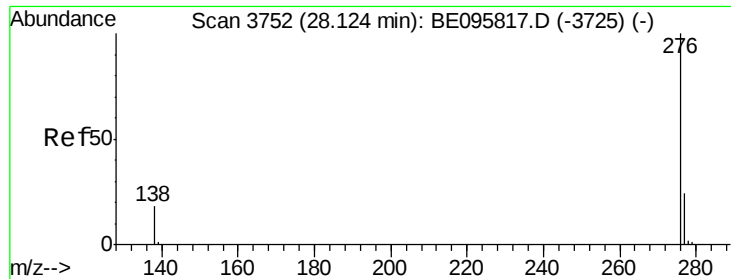
Sohil  
4/12/2018 6:45:25 PM



#38  
Dibenzo(a,h)anthracene  
Concen: 0.301 ng  
RT: 27.24 min Scan# 3504  
Delta R.T. -0.02 min  
Lab File: BE095936.D  
Acq: 2 Apr 2018 20:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.7  | 16.0  | 24.0  |
| 279     | 29.0  | 20.0  | 30.0  |





#39

Benzo(a,h,i)perylene

Concen: 0.312 ng

RT: 28.10 min Scan# 3745

Delta R.T. -0.02 min

Lab File: BE095936.D

Acq: 2 Apr 2018 20:17

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 27.0  | 16.0  | 24.0  |
| 138     | 22.8  | 20.0  | 30.0  |

Instrument :

BNA\_E

ClientSampleId :

PB107891BSD

Manual Integrations  
APPROVED

Sohil  
4/12/2018 6:45:25 PM

