

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102317\  
 Data File : BE094502.D  
 Acq On : 23 Oct 2017 19:09  
 Operator : SJ/JU  
 Sample : PB103539BS  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB103539BS

Manual Integrations  
 APPROVED

Sohil  
 10/24/2017 8:46:47 PM

Quant Time: Oct 23 22:36:59 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE102317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 23 19:31:26 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.91  | 152  | 1062     | 0.40  | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.71 | 136  | 5447     | 0.40  | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.51 | 164  | 3456     | 0.40  | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.24 | 188  | 6941     | 0.40  | ng    | 0.00     |
| 27) Chrysene-d12               | 21.43 | 240  | 9069     | 0.40  | ng    | 0.00     |
| 34) Perylene-d12               | 23.95 | 264  | 8370     | 0.40  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.53  | 112  | 1329     | 0.37  | ng    | 0.00     |
| 5) Phenol-d6                   | 7.14  | 99   | 1965     | 0.36  | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 9.08  | 82   | 1576m    | 0.36  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10    | 12.29 | 152  | 3440     | 0.39  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 16.03 | 330  | 346      | 0.36  | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 13.15 | 172  | 4528     | 0.37  | ng    | 0.00     |
| 25) Fluoranthene-d10           | 19.28 | 212  | 38982    | 0.47  | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.86 | 244  | 6367     | 0.37  | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                 | 3.41  | 88   | 594      | 0.330 | ng    | # 1      |
| 3) n-Nitrosodimethylamine      | 3.74  | 42   | 739      | 0.429 | ng    | # 88     |
| 6) bis(2-Chloroethyl)ether     | 7.33  | 93   | 1505     | 0.354 | ng    | # 81     |
| 9) Naphthalene                 | 10.76 | 128  | 20987    | 0.340 | ng    | # 100    |
| 10) Hexachlorobutadiene        | 11.01 | 225  | 786      | 0.352 | ng    | # 96     |
| 12) 2-Methylnaphthalene        | 12.37 | 142  | 3699     | 0.354 | ng    | # 98     |
| 16) Acenaphthylene             | 14.24 | 152  | 5989     | 0.328 | ng    | # 99     |
| 17) Acenaphthene               | 14.59 | 154  | 3872     | 0.330 | ng    | # 97     |
| 18) Fluorene                   | 15.56 | 166  | 5141     | 0.342 | ng    | # 98     |
| 20) 4-Bromophenyl-phenylether  | 16.45 | 248  | 1254     | 0.331 | ng    | # 62     |
| 21) Hexachlorobenzene          | 16.58 | 284  | 1353     | 0.408 | ng    | # 38     |
| 22) Pentachlorophenol          | 17.01 | 266  | 299m     | 0.705 | ng    |          |
| 23) Phenanthrene               | 17.30 | 178  | 7403m    | 0.400 | ng    |          |
| 24) Anthracene                 | 17.40 | 178  | 7179m    | 0.352 | ng    |          |
| 26) Fluoranthene               | 19.31 | 202  | 10342    | 0.397 | ng    | # 100    |
| 28) Pyrene                     | 19.67 | 202  | 10573    | 0.333 | ng    | # 99     |
| 30) Benzo(a)anthracene         | 21.40 | 228  | 10425    | 0.353 | ng    | # 62     |
| 31) Chrysene                   | 21.46 | 228  | 9819     | 0.328 | ng    | # 64     |
| 32) Bis(2-ethylhexyl)phthalate | 21.28 | 149  | 24198    | 0.334 | ng    | # 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.63 | 276  | 9846     | 0.355 | ng    | # 99     |
| 35) Benzo(b)fluoranthene       | 23.17 | 252  | 9477     | 0.350 | ng    | # 41     |
| 36) Benzo(k)fluoranthene       | 23.22 | 252  | 10297    | 0.357 | ng    | # 41     |
| 37) Benzo(a)pyrene             | 23.83 | 252  | 9288     | 0.354 | ng    | # 35     |
| 38) Dibenzo(a,h)anthracene     | 26.64 | 278  | 8355     | 0.354 | ng    | # 47     |
| 39) Benzo(g,h,i)perylene       | 27.46 | 276  | 7863     | 0.356 | ng    | # 57     |

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

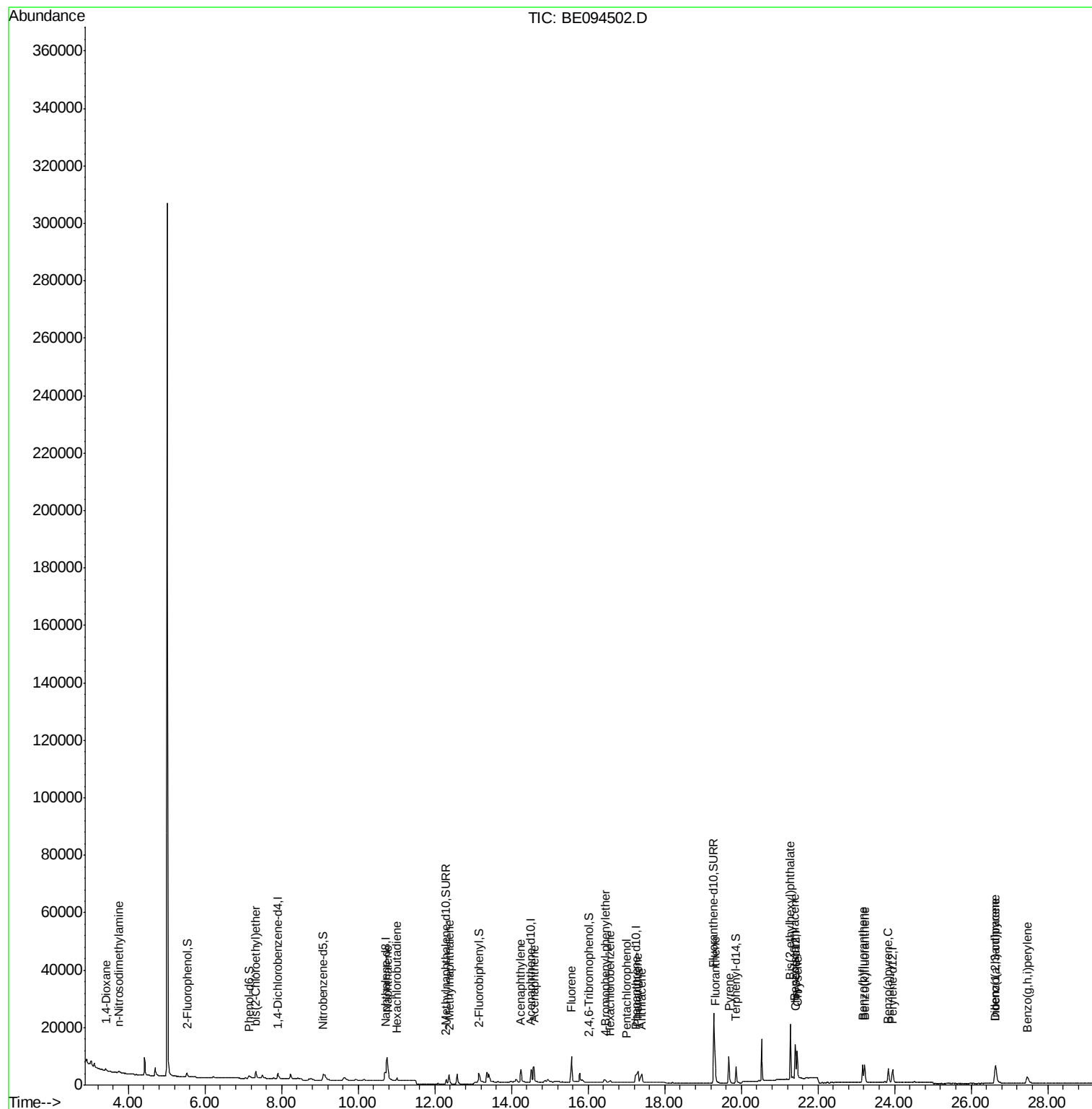
Data Path : Z:\HPCHEM1\BNA E\DATA\BE102317\  
Data File : BE094502.D  
Acq On : 23 Oct 2017 19:09  
Operator : SJ/JU  
Sample : PB103539BS  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

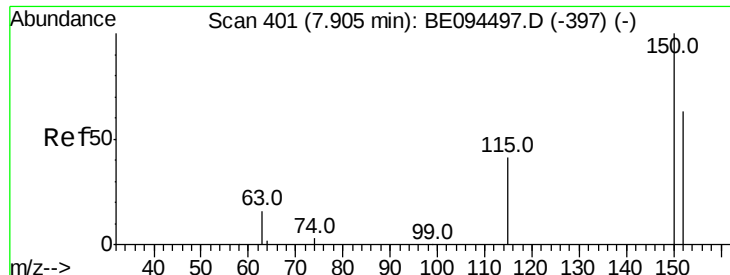
Instrument :  
BNA\_E  
ClientSampleId :  
PB103539BS

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Quant Time: Oct 23 22:36:59 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE102317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 23 19:31:26 2017  
Response via : Initial Calibration





#1

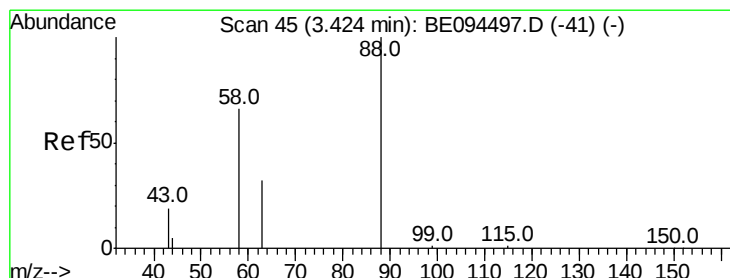
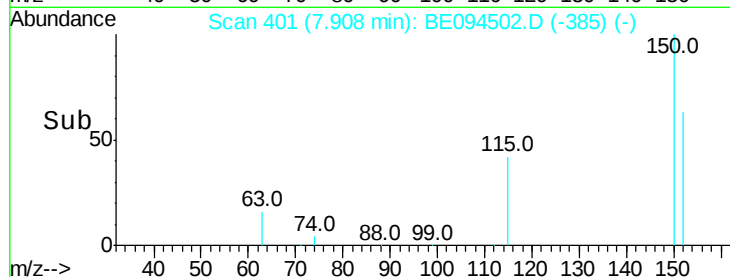
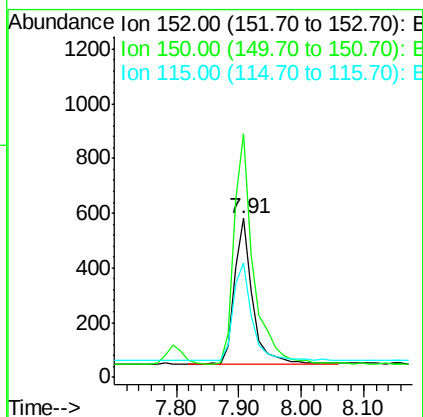
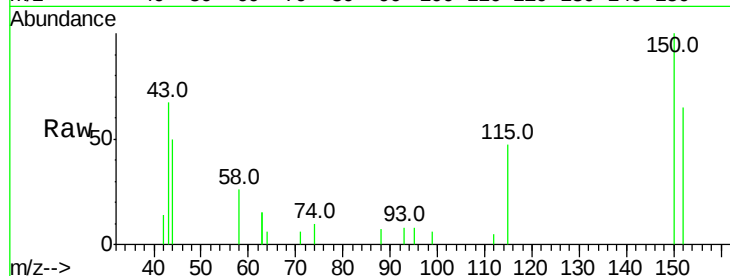
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.91 min Scan# 401  
Delta R.T. 0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

Instrument :  
BNA\_E  
ClientSampleId :  
PB103539BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.2 | 117.2 | 175.8 |
| 115     | 71.6  | 57.0  | 85.6  |

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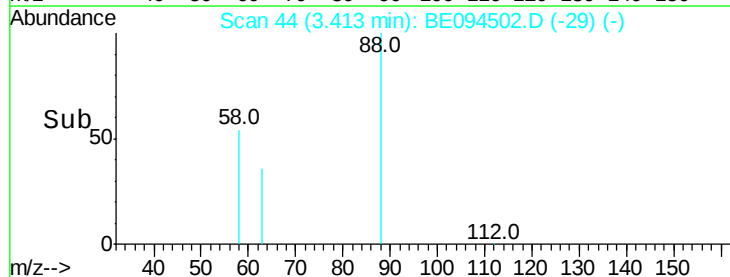
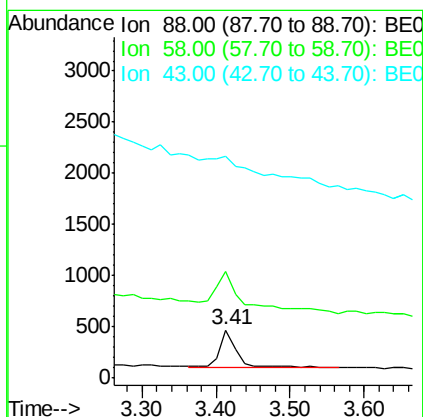
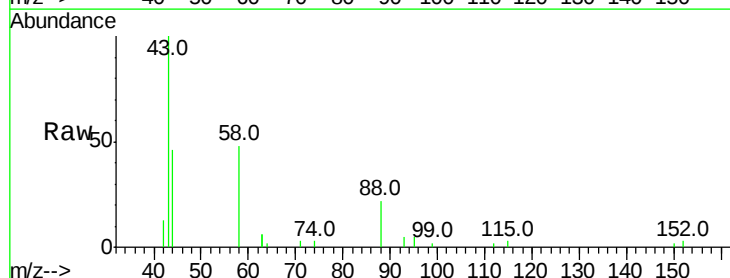
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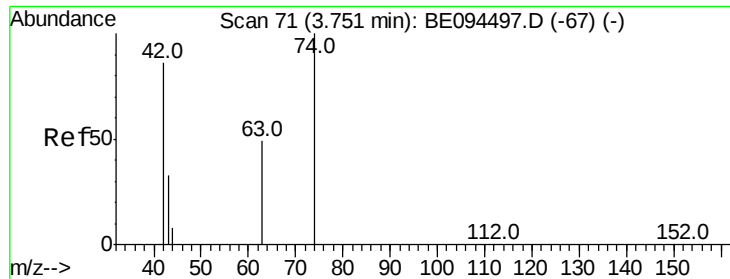


#2

1,4-Dioxane  
Concen: 0.330 ng  
RT: 3.41 min Scan# 44  
Delta R.T. -0.01 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 190.7 | 63.2  | 94.8# |
| 43      | 0.0   | 41.2  | 61.8# |





#3

n-Nitrosodimethylamine

Concen: 0.429 ng

RT: 3.74 min Scan# 70

Delta R.T. -0.01 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

Instrument :

BNA\_E

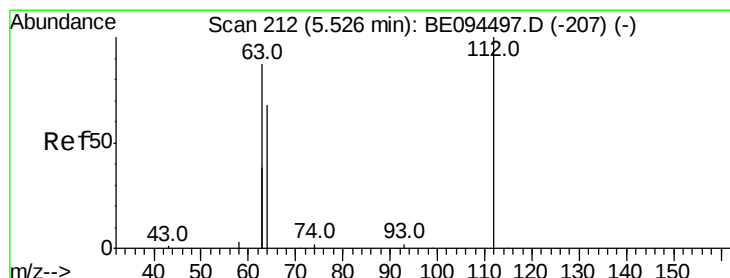
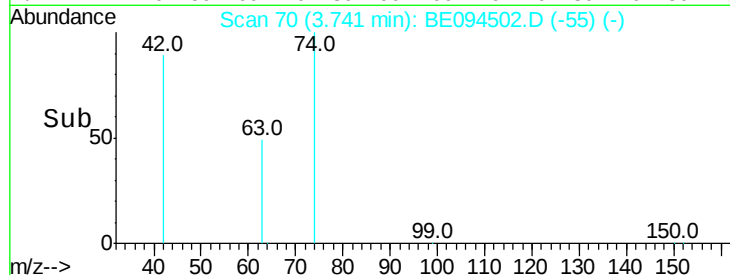
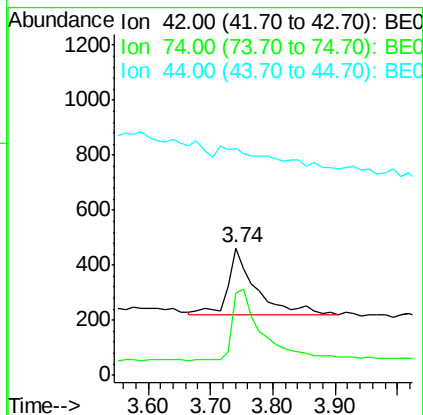
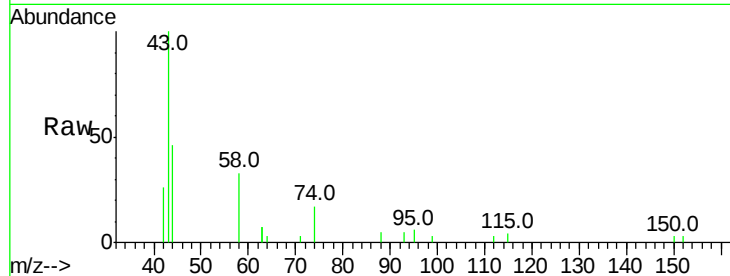
ClientSampleId :

PB103539BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 739   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 118.4 | 100.3 | 150.5 |
| 44       | 0.0   | 17.0  | 25.4# |

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#4

2-Fluorophenol

Concen: 0.365 ng

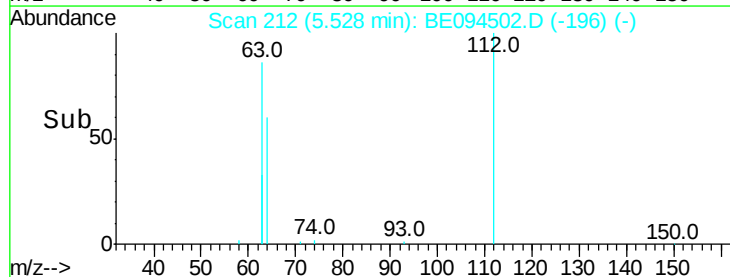
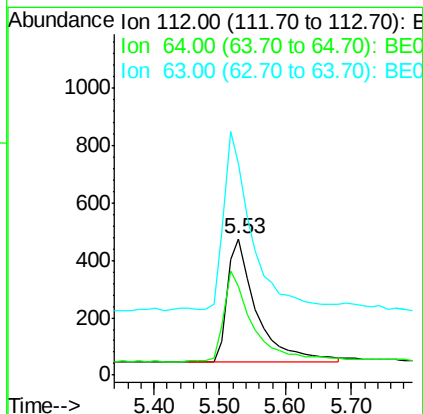
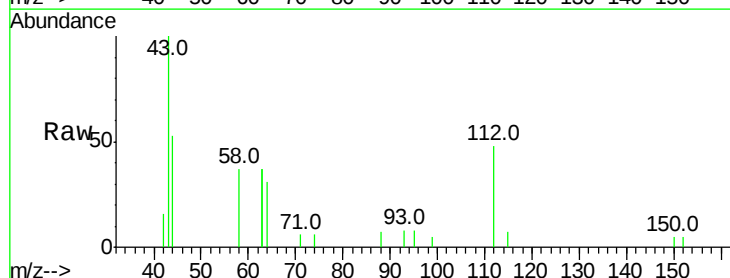
RT: 5.53 min Scan# 212

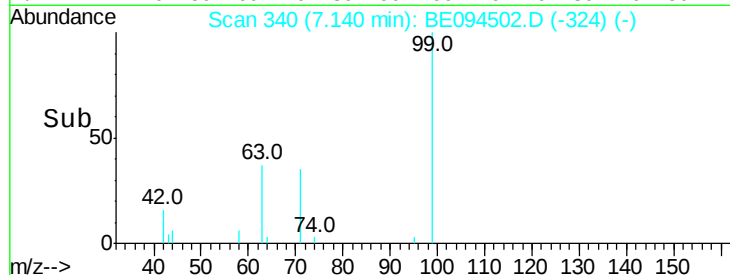
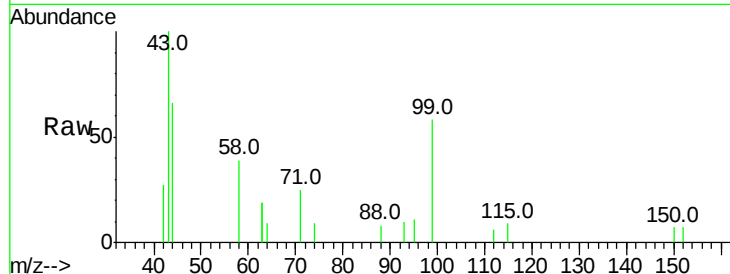
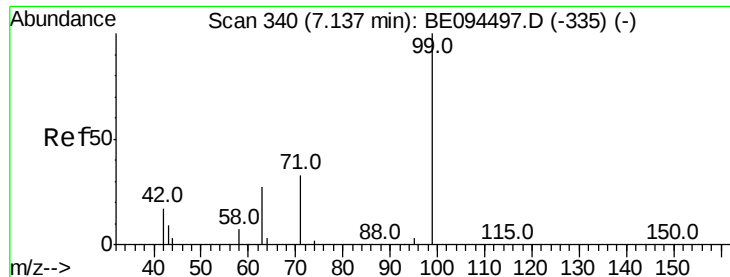
Delta R.T. 0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 1329  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 71.1  | 60.1  | 90.1  |
| 63       | 136.9 | 116.8 | 175.2 |





#5

Phenol-d6

Concen: 0.358 ng

RT: 7.14 min Scan# 340

Delta R.T. 0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 1965  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 20.8  | 20.2  | 30.2  |
| 71       | 34.7  | 28.4  | 42.6  |

Instrument :

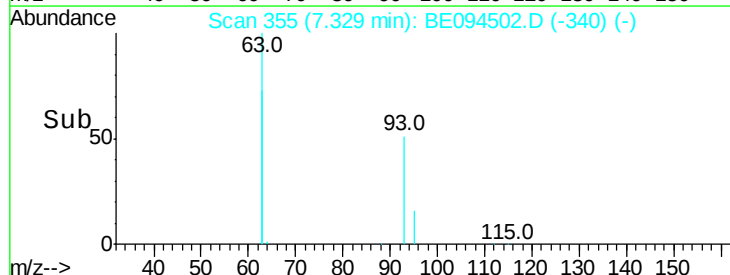
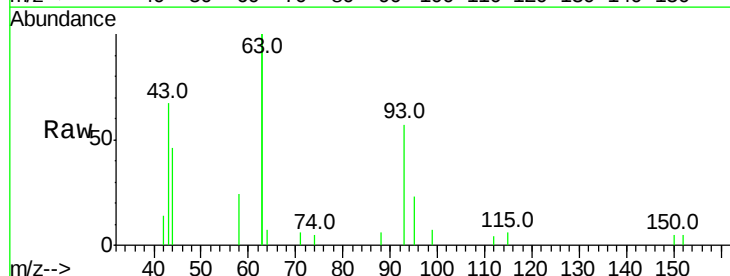
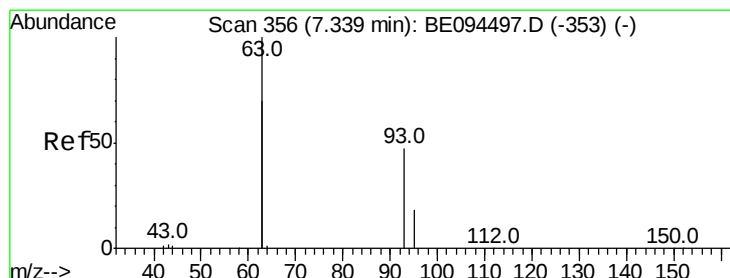
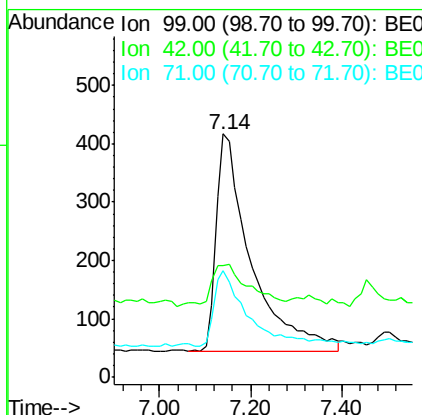
BNA\_E

ClientSampled :

PB103539BS

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#6

bis(2-Chloroethyl)ether

Concen: 0.354 ng

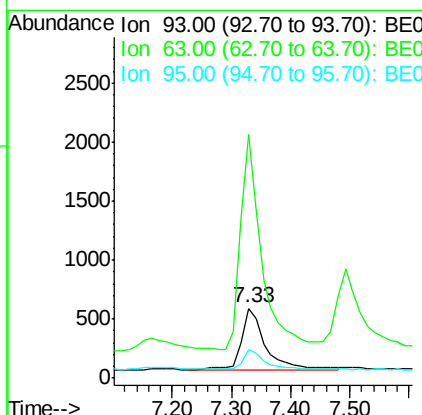
RT: 7.33 min Scan# 355

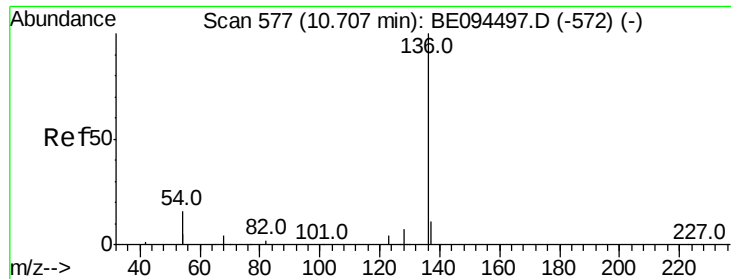
Delta R.T. -0.01 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1505  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 300.3 | 275.3 | 412.9 |
| 95       | 27.6  | 25.2  | 37.8  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.71 min Scan# 577

Delta R.T. -0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

Instrument :

BNA\_E

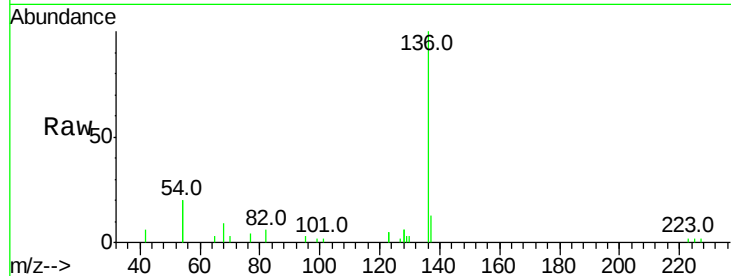
ClientSampleId :

PB103539BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 136   | Resp: | 5447 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 13.1  | 9.5   | 14.3 |
| 54        | 40.6  | 29.1  | 43.7 |
| 68        | 8.7   | 6.2   | 9.2  |

Manual Integrations  
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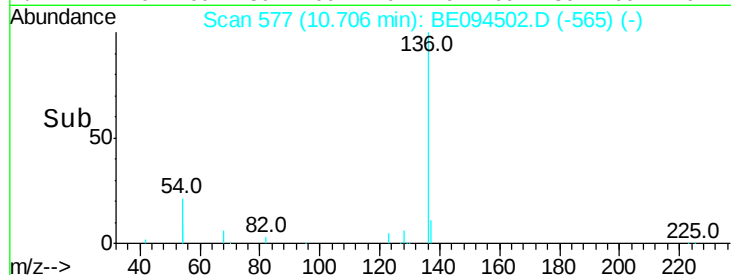
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

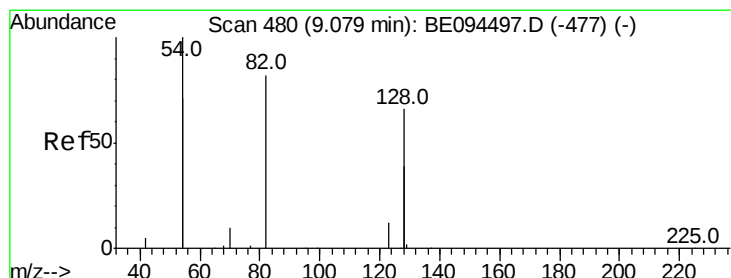
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0

Time-->



Time-->



#8

Nitrobenzene-d5

Concen: 0.362 ng m

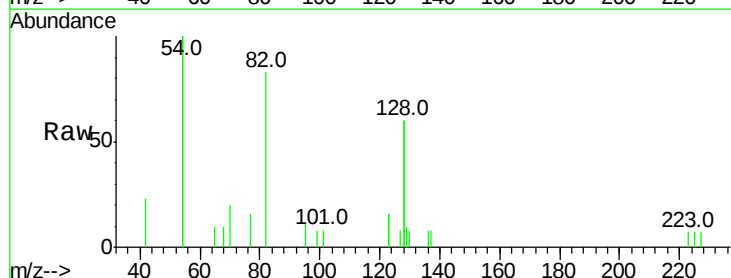
RT: 9.08 min Scan# 480

Delta R.T. -0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 1576   |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 72.5  | 150.0 | 225.0# |
| 54        | 120.1 | 154.2 | 231.4# |

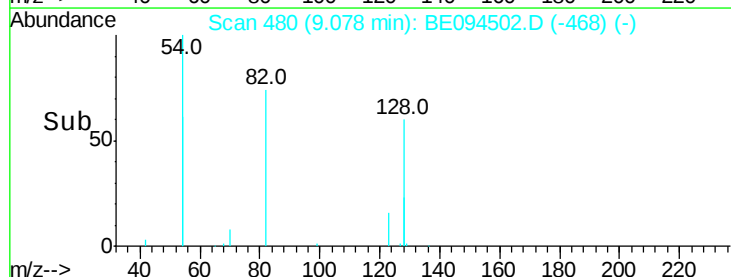


Abundance Ion 82.00 (81.70 to 82.70): BE0

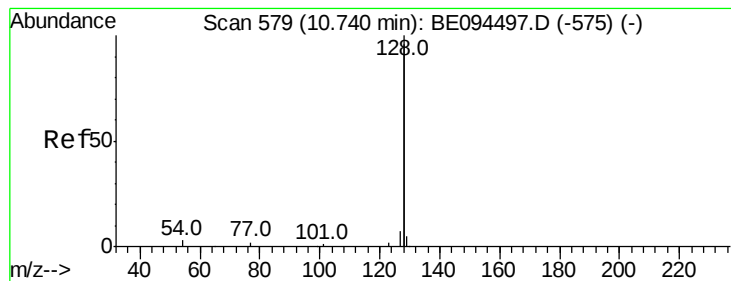
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

Time-->



Time-->



#9

Naphthalene

Concen: 0.340 ng

RT: 10.76 min Scan# 580

Delta R.T. 0.02 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

Instrument :

BNA\_E

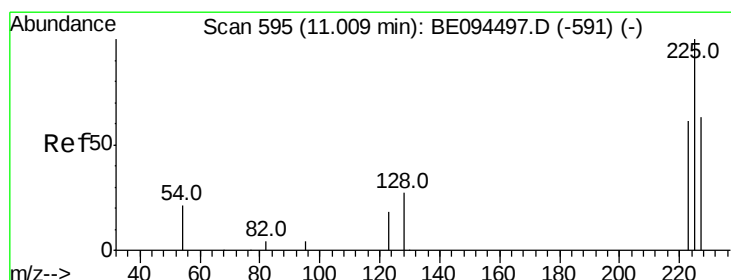
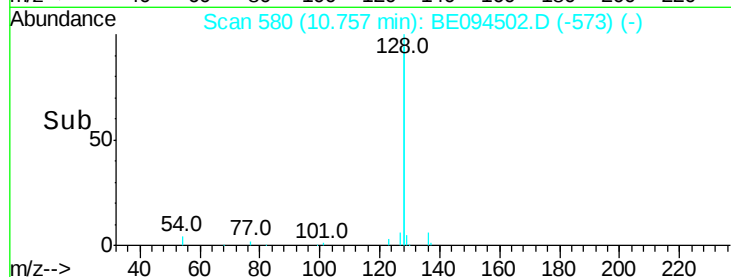
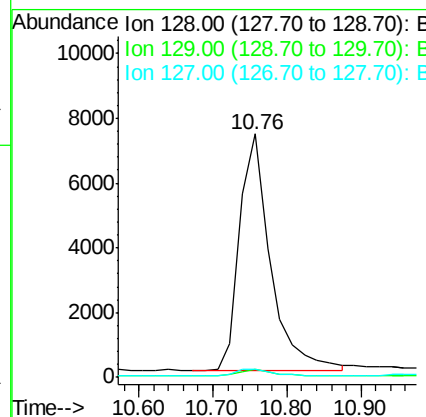
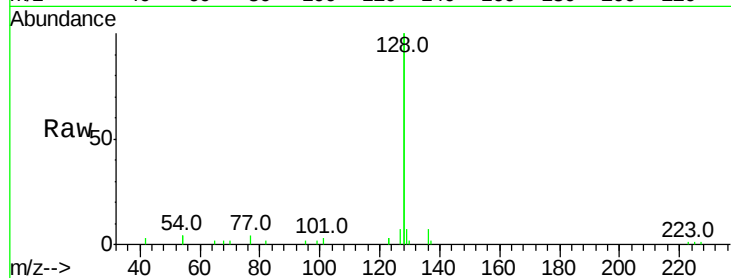
ClientSampleId :

PB103539BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 20987 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 3.4   | 2.6   | 3.8   |
| 127       | 3.5   | 2.8   | 4.2   |

Manual Integrations  
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#10

Hexachlorobutadiene

Concen: 0.352 ng

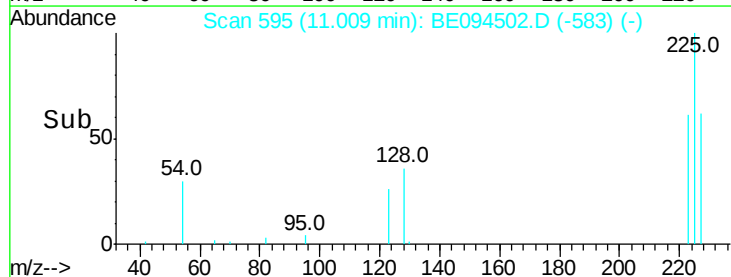
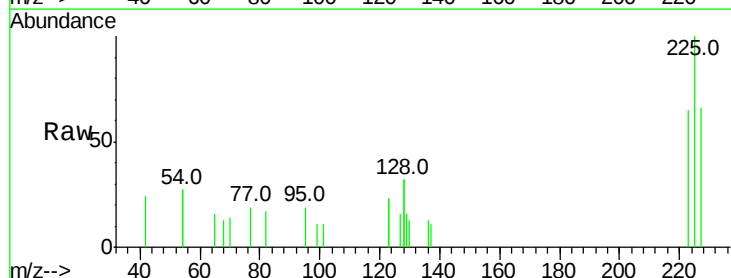
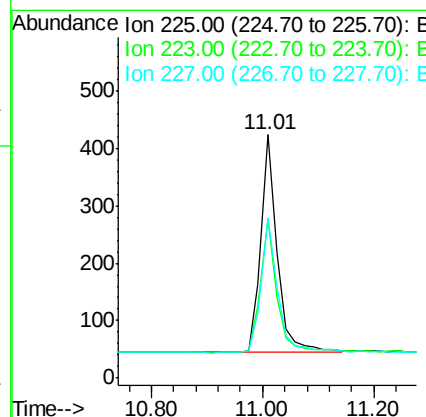
RT: 11.01 min Scan# 595

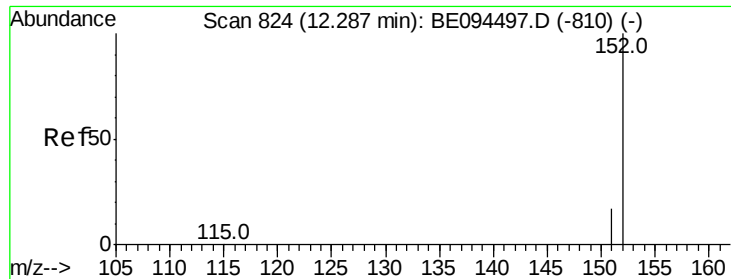
Delta R.T. -0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 786  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 60.2  | 53.0  | 79.6 |
| 227       | 65.1  | 51.4  | 77.2 |





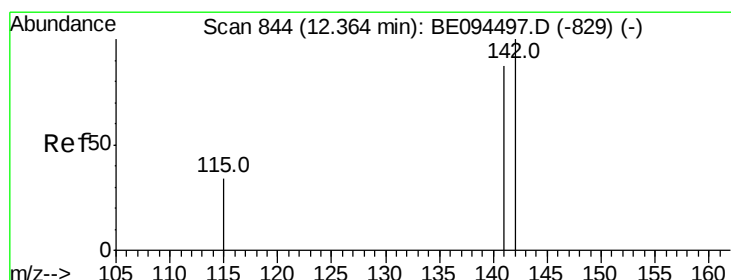
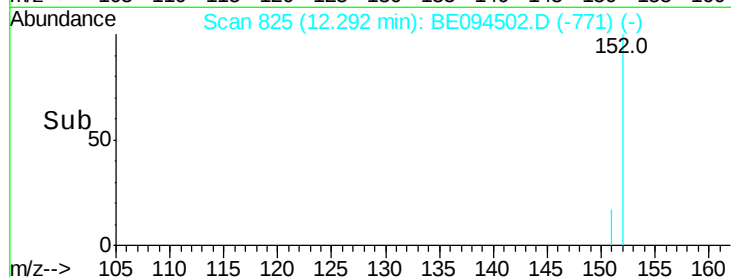
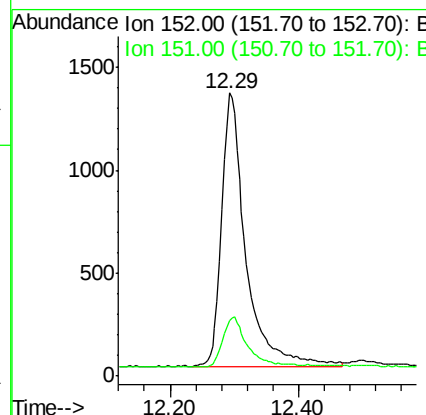
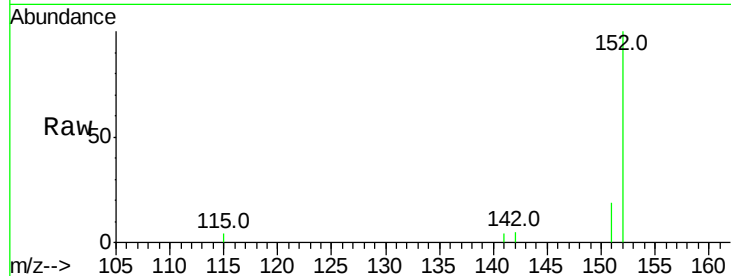
#11  
2-Methylnaphthalene-d10  
Concen: 0.394 ng  
RT: 12.29 min Scan# 825  
Delta R.T. 0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

Instrument :  
BNA\_E  
ClientSampleId :  
PB103539BS

Tot Ion:152 Resp: 3440  
Ion Ratio Lower Upper  
152 100  
151 18.0 15.4 23.0

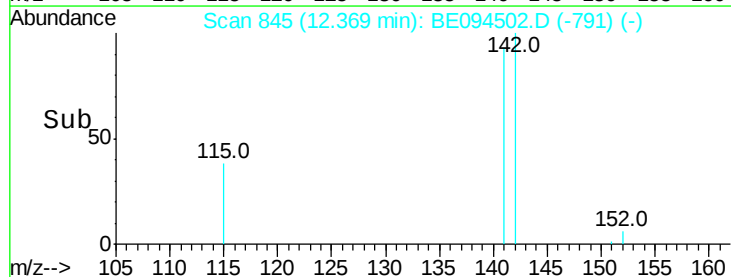
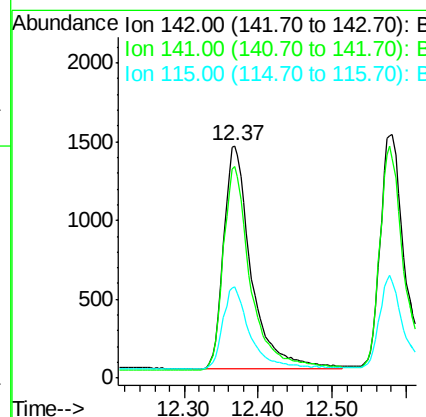
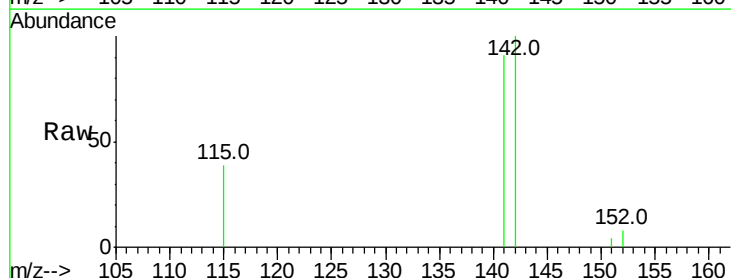
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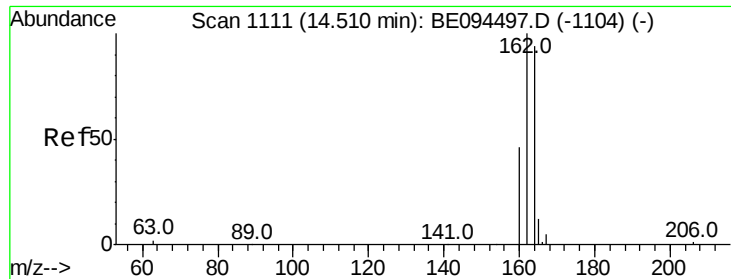
Sohil  
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#12  
2-Methylnaphthalene  
Concen: 0.354 ng  
RT: 12.37 min Scan# 845  
Delta R.T. 0.01 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

Tgt Ion:142 Resp: 3699  
Ion Ratio Lower Upper  
142 100  
141 91.0 70.4 105.6  
115 39.3 31.7 47.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.51 min Scan# 1111

Delta R.T. 0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

Instrument :

BNA\_E

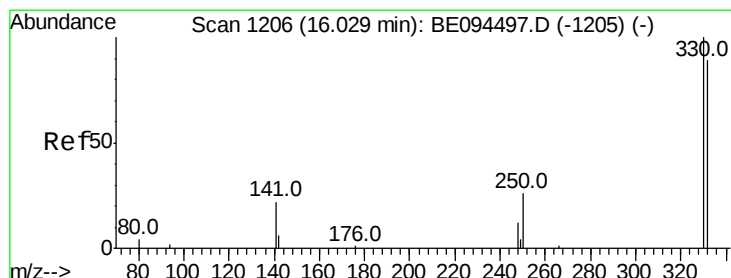
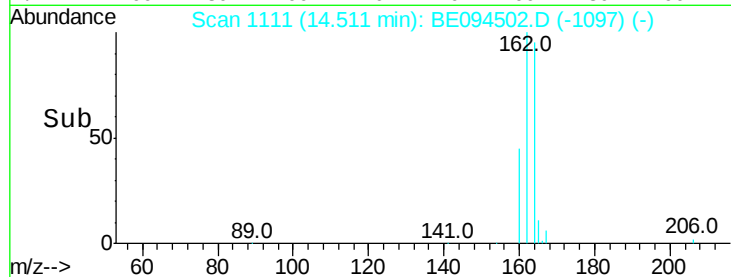
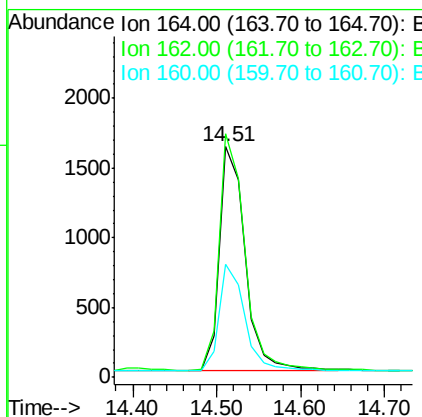
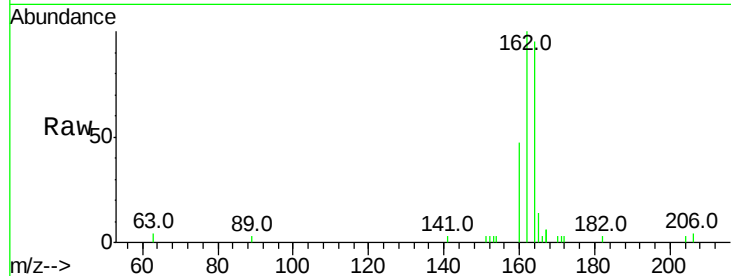
ClientSampleId :

PB103539BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 164   | Resp: | 3456  |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 105.5 | 83.1  | 124.7 |
| 160       | 49.2  | 37.1  | 55.7  |

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#14

2,4,6-Tribromophenol

Concen: 0.363 ng

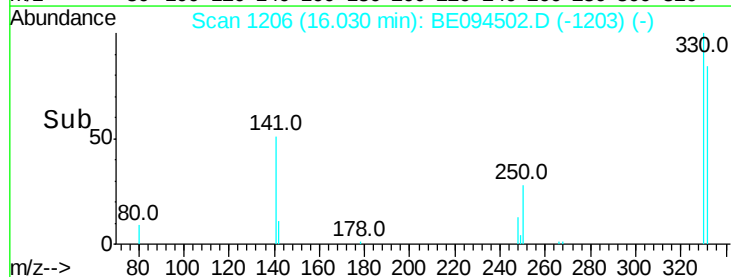
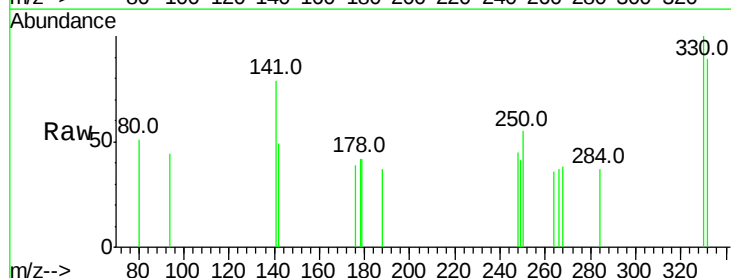
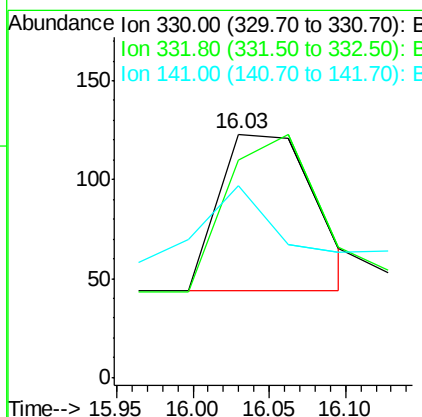
RT: 16.03 min Scan# 1206

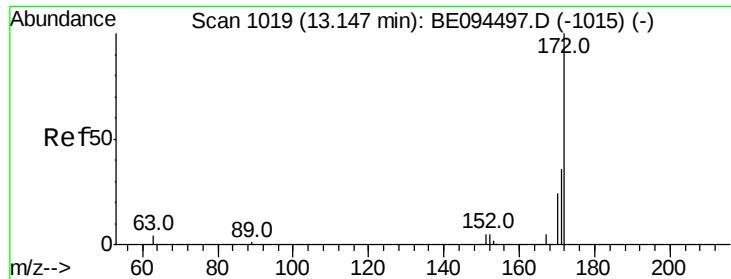
Delta R.T. 0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 346    |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 0.0   | 152.7 | 229.1# |
| 141       | 21.4  | 33.7  | 50.5#  |





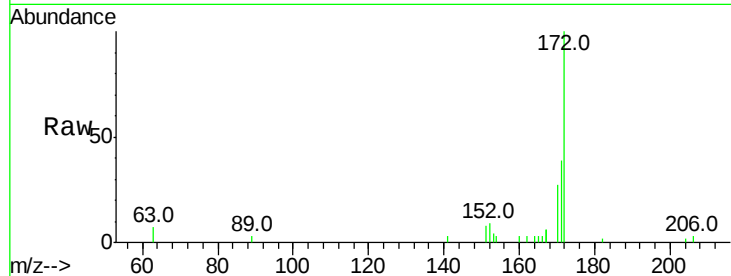
#15  
2-Fluorobiphenyl  
Concen: 0.372 ng  
RT: 13.15 min Scan# 1019  
Delta R.T. 0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

Instrument :  
BNA\_E  
ClientSampled :  
PB103539BS

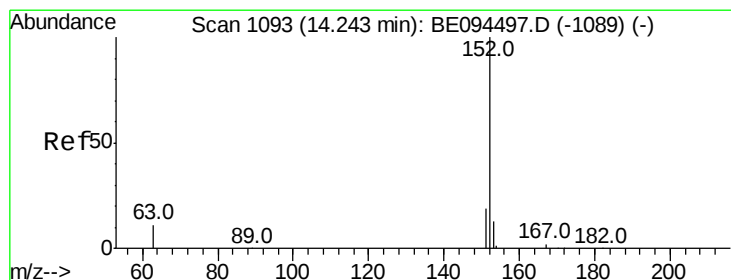
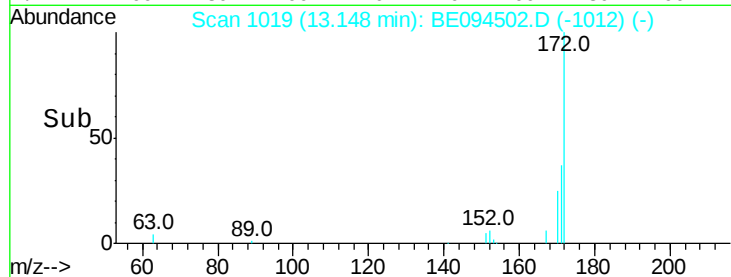
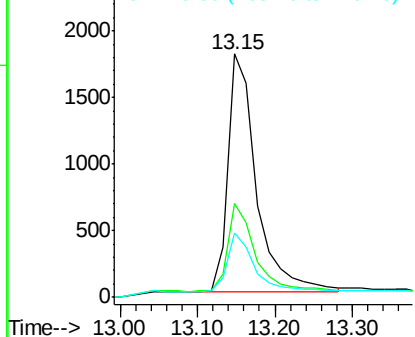
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.7  | 29.9  | 44.9  |
| 170     | 26.7  | 21.8  | 32.8  |

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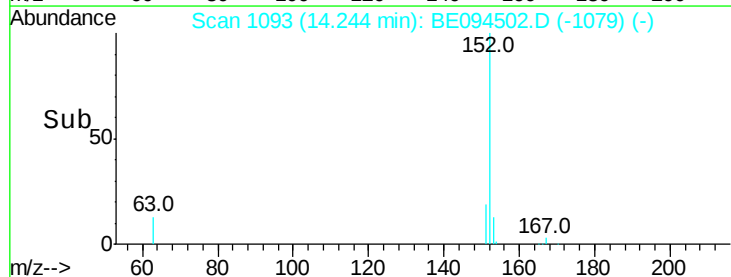
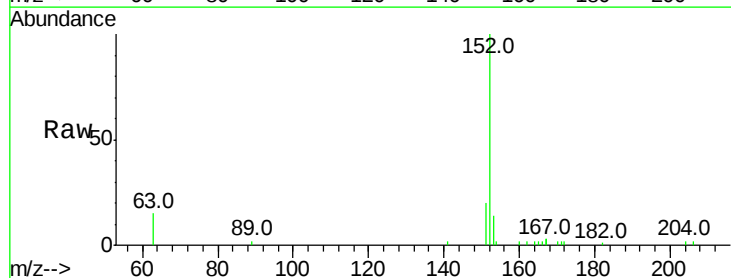
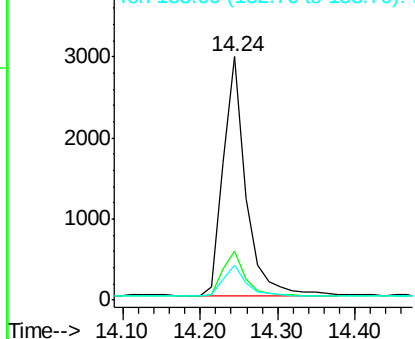
Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

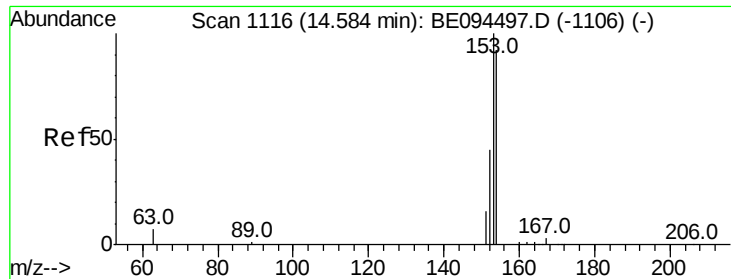


#16  
Acenaphthylene  
Concen: 0.328 ng  
RT: 14.24 min Scan# 1093  
Delta R.T. 0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.1  | 15.7  | 23.5  |
| 153     | 12.8  | 10.5  | 15.7  |

Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





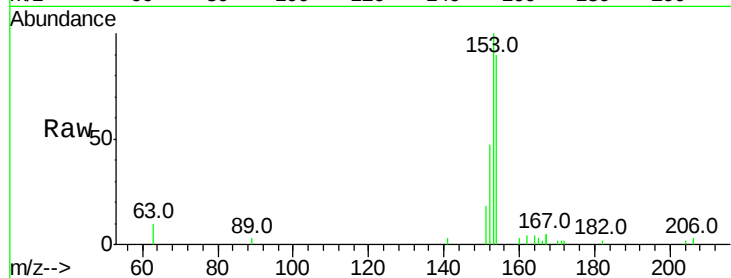
#17  
Acenaphthene  
Concen: 0.330 ng  
RT: 14.59 min Scan# 1116  
Delta R.T. 0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

Instrument :  
BNA\_E  
ClientSampleId :  
PB103539BS

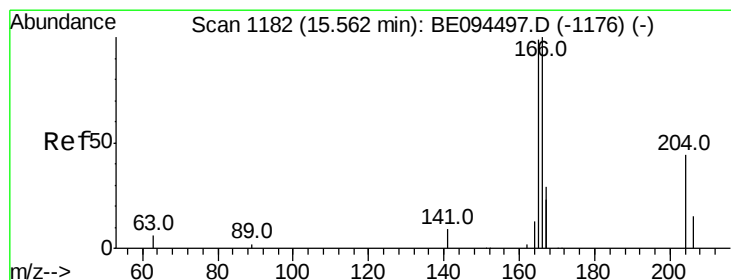
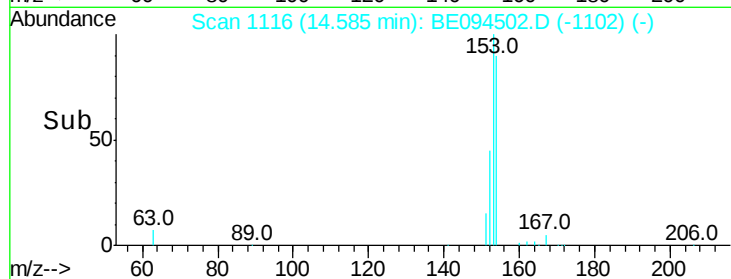
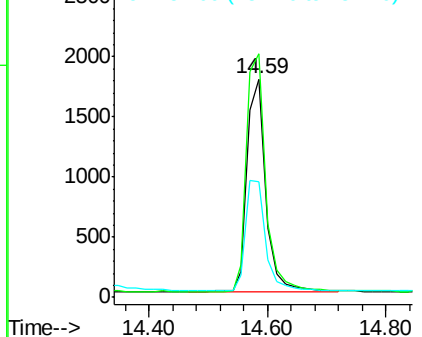
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 114.2 | 89.2  | 133.8 |
| 152     | 54.5  | 42.0  | 63.0  |

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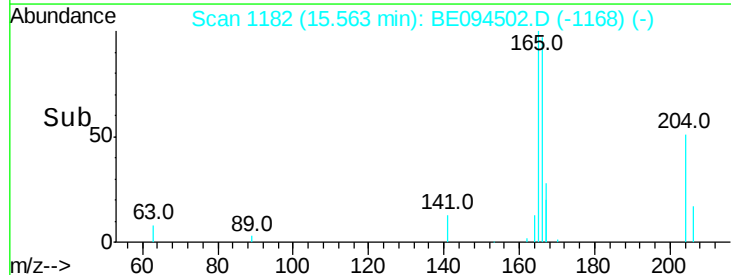
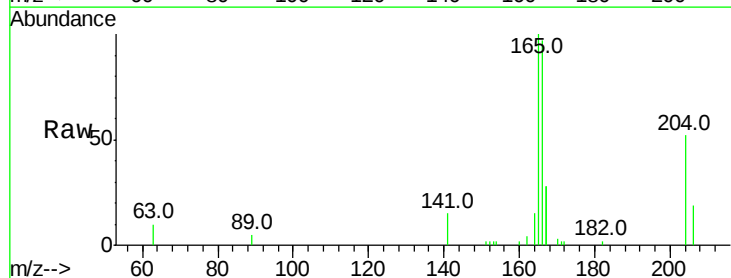
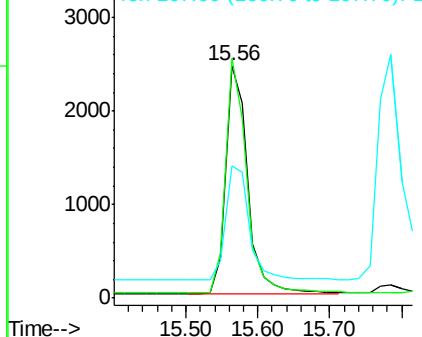
Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

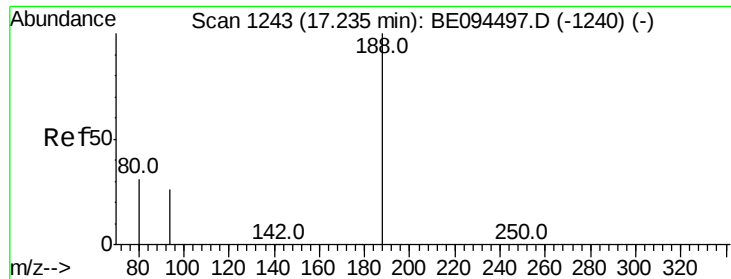


#18  
Fluorene  
Concen: 0.342 ng  
RT: 15.56 min Scan# 1182  
Delta R.T. 0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.1  | 77.8  | 116.6 |
| 167     | 54.9  | 42.4  | 63.6  |

Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





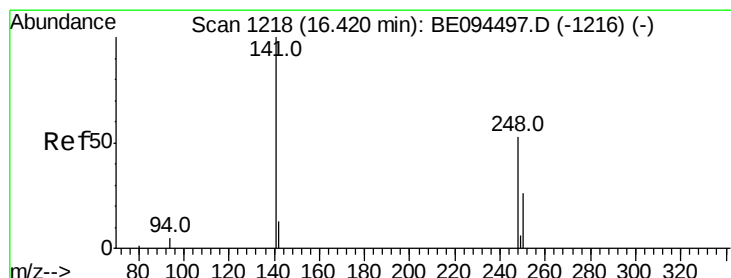
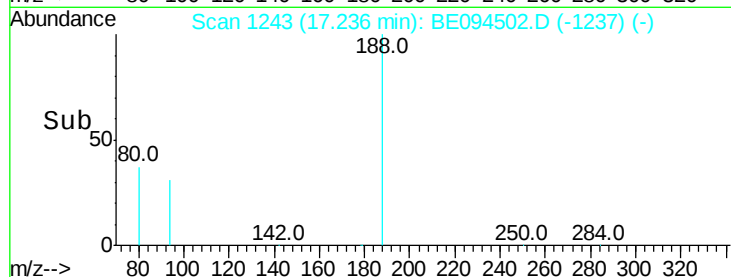
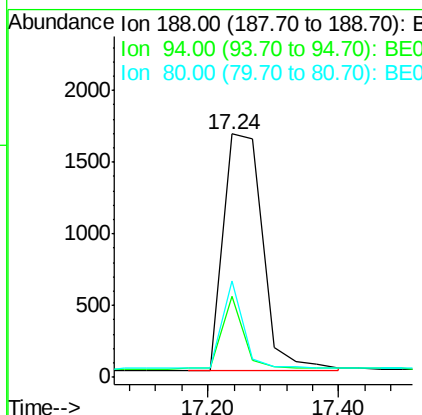
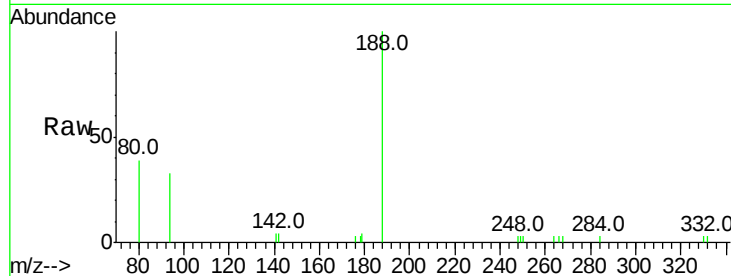
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.24 min Scan# 1243  
Delta R.T. 0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

Instrument :  
BNA\_E  
ClientSampleId :  
PB103539BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 33.1  | 3.9   | 5.9#  |
| 80      | 39.4  | 3.6   | 5.4#  |

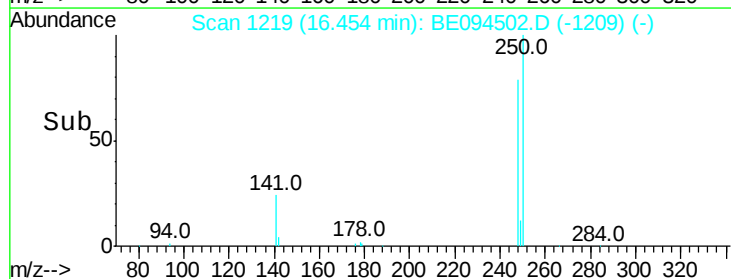
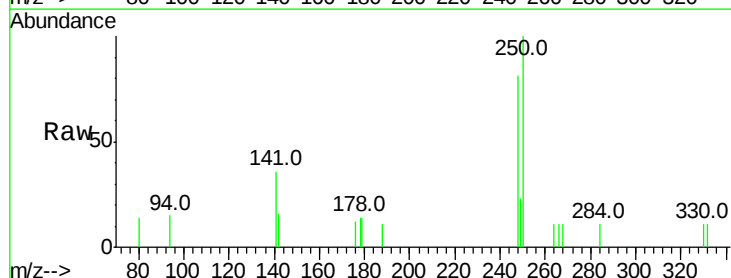
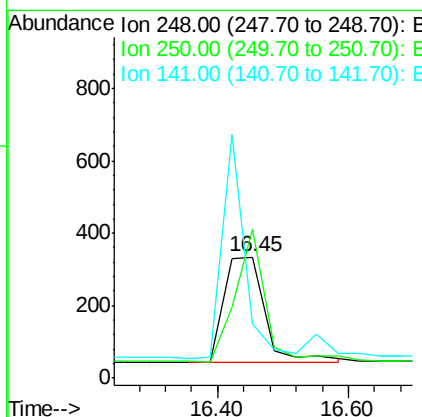
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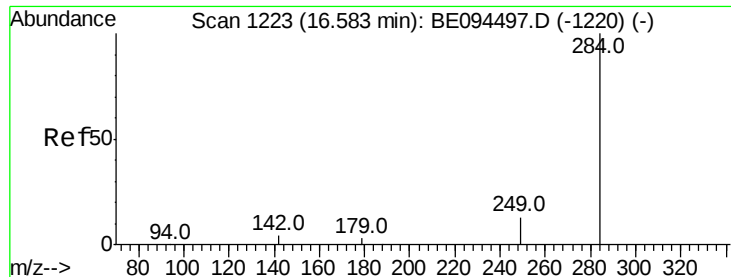
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#20  
4-Bromophenyl-phenylether  
Concen: 0.331 ng  
RT: 16.45 min Scan# 1219  
Delta R.T. 0.03 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 123.0 | 62.7  | 94.1# |
| 141     | 44.8  | 48.2  | 72.2# |





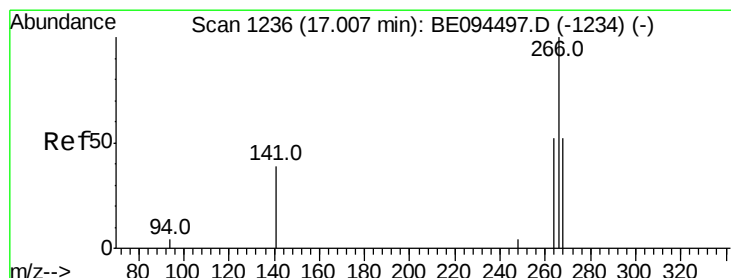
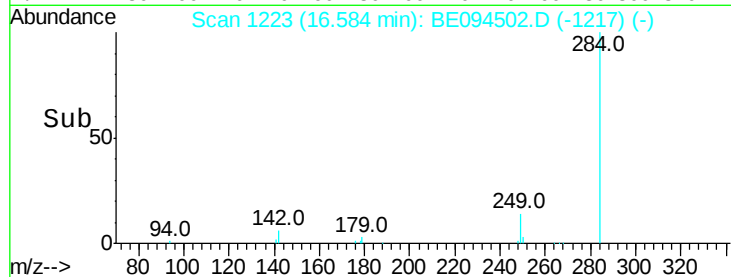
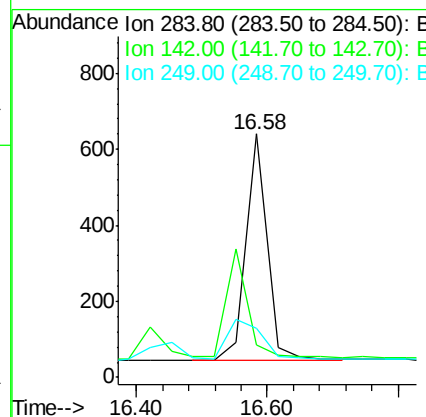
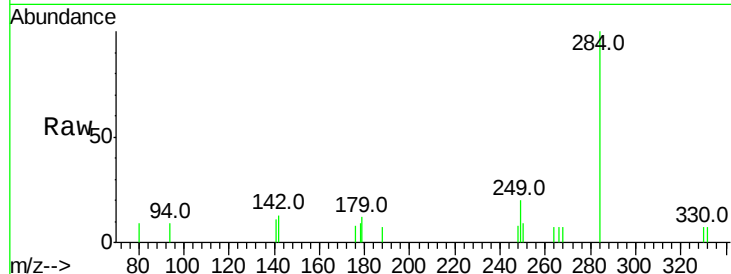
#21  
Hexachlorobenzene  
Concen: 0.408 ng  
RT: 16.58 min Scan# 1223  
Delta R.T. 0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

Instrument :  
BNA\_E  
ClientSampleId :  
PB103539BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 0.0   | 22.1  | 33.1# |
| 249     | 0.0   | 34.8  | 52.2# |

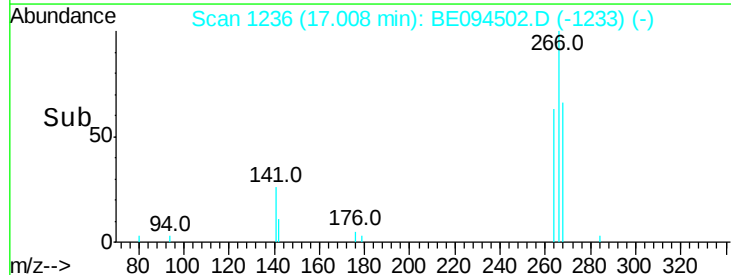
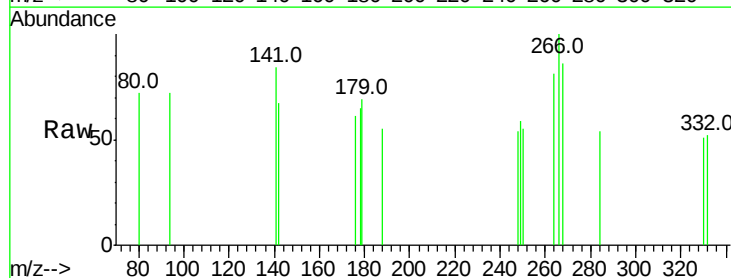
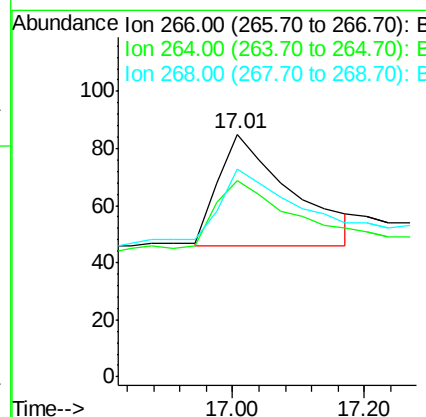
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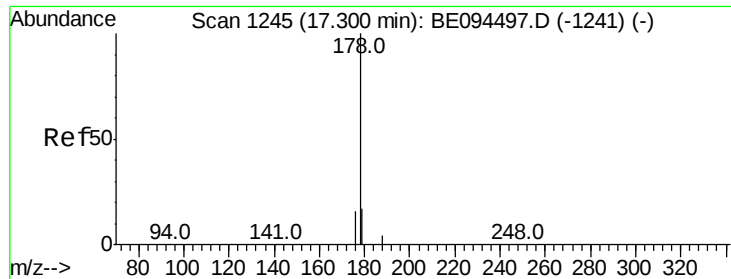
Sohil  
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#22  
Pentachlorophenol  
Concen: 0.705 ng m  
RT: 17.01 min Scan# 1236  
Delta R.T. 0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 81.2  | 72.5  | 108.7 |
| 268     | 85.9  | 73.8  | 110.6 |





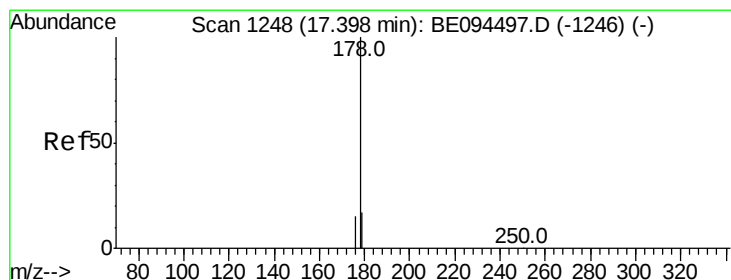
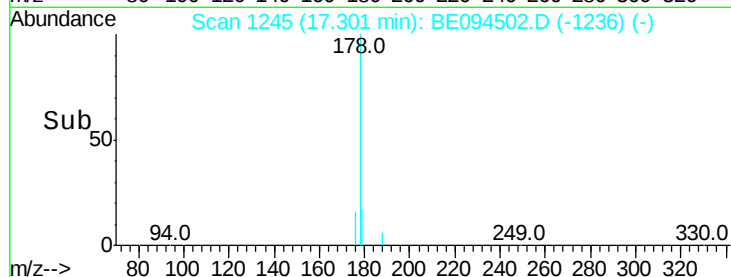
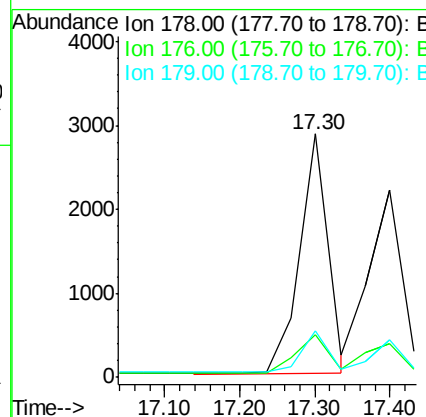
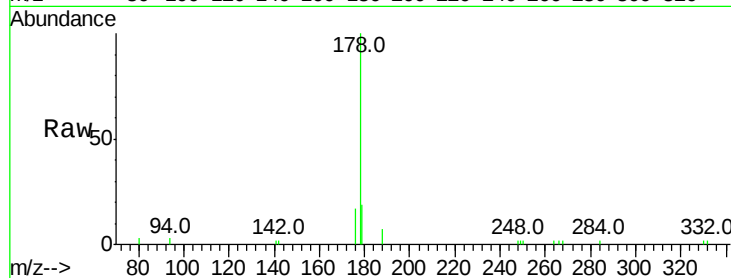
#23  
Phenanthrene  
Concen: 0.400 ng m  
RT: 17.30 min Scan# 1245  
Delta R.T. 0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

Instrument :  
BNA\_E  
ClientSampleId :  
PB103539BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.7  | 15.1  | 22.7  |
| 179     | 19.3  | 11.8  | 17.6# |

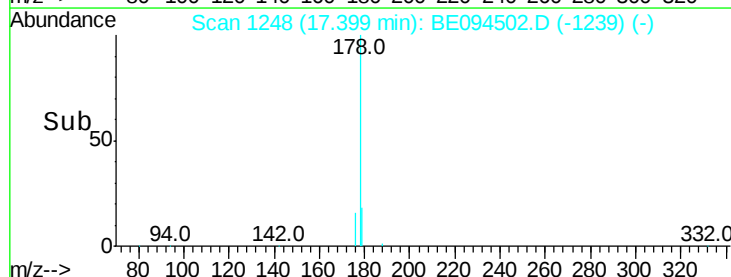
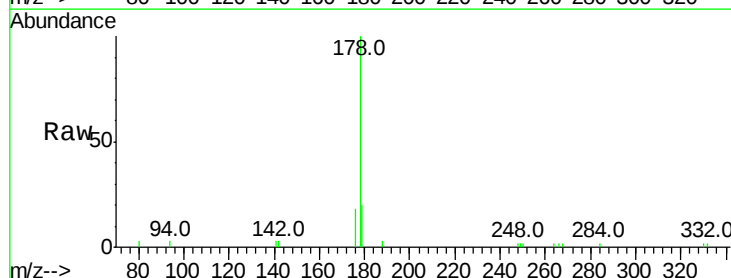
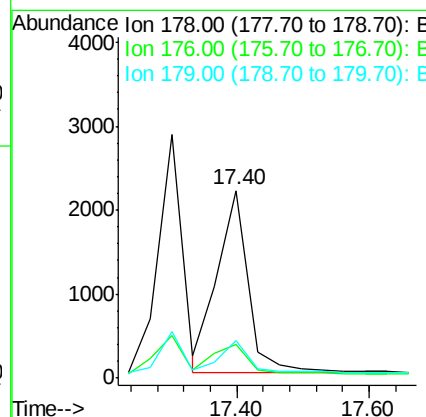
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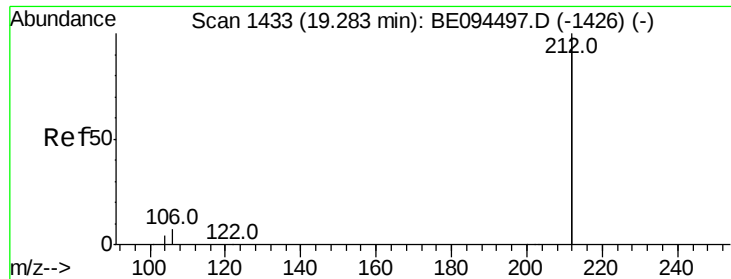
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#24  
Anthracene  
Concen: 0.352 ng m  
RT: 17.40 min Scan# 1248  
Delta R.T. 0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.3  | 12.8  | 19.2  |
| 179     | 19.7  | 13.0  | 19.6# |





#25

Fluoranthene-d10

Concen: 0.470 ng

RT: 19.28 min Scan# 1433

Delta R.T. 0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

Instrument :

BNA\_E

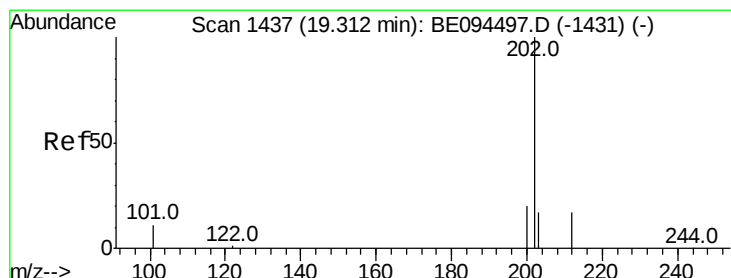
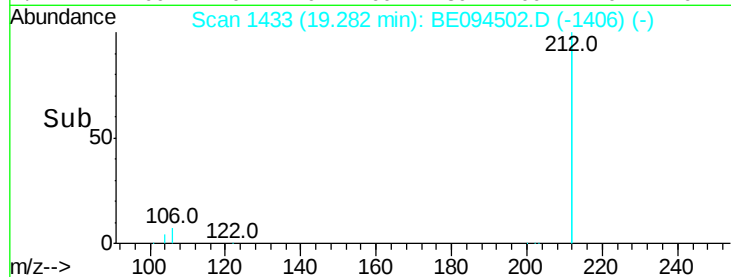
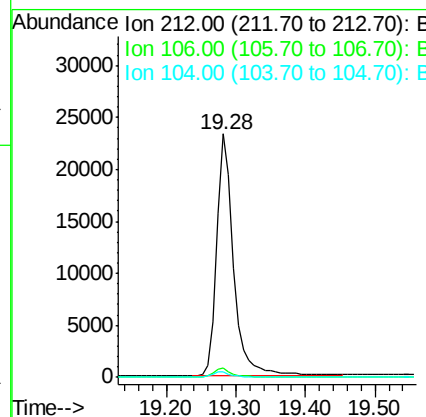
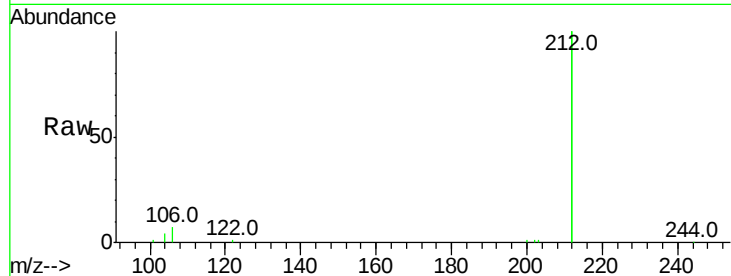
ClientSampleId :

PB103539BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 38982 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 3.6   | 2.8   | 4.2   |
| 104       | 2.0   | 1.6   | 2.4   |

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#26

Fluoranthene

Concen: 0.397 ng

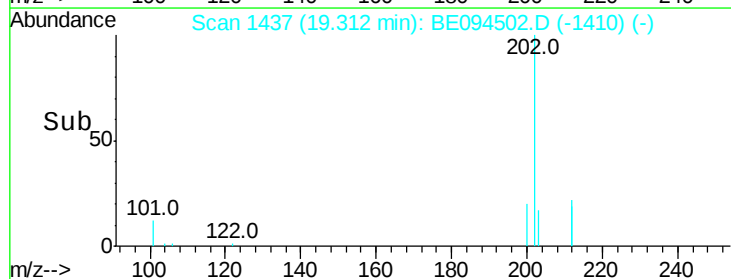
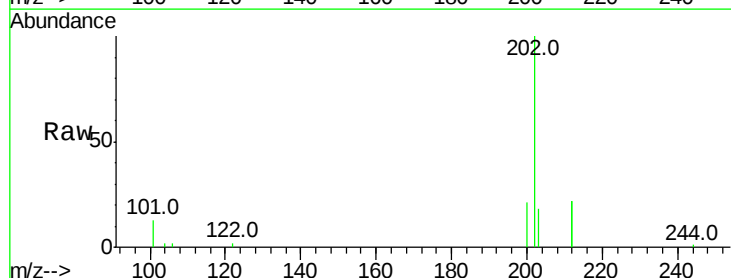
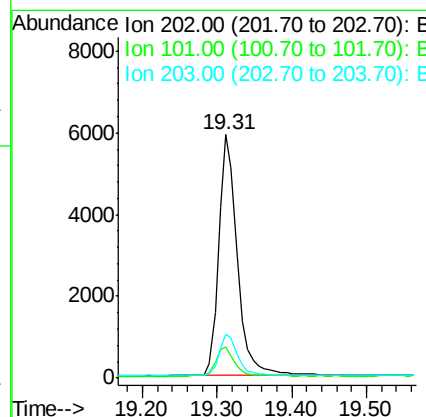
RT: 19.31 min Scan# 1437

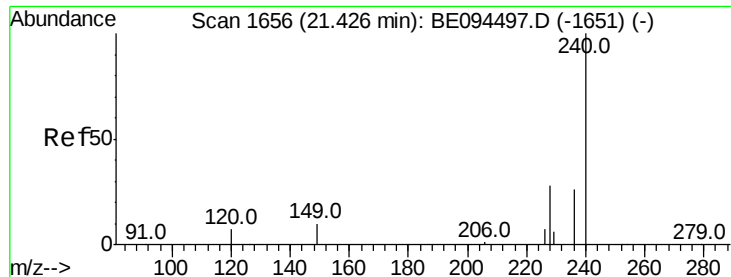
Delta R.T. -0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 10342 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.3  | 9.8   | 14.8  |
| 203       | 17.2  | 13.7  | 20.5  |





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.43 min Scan# 1656

Delta R.T. 0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

Instrument :

BNA\_E

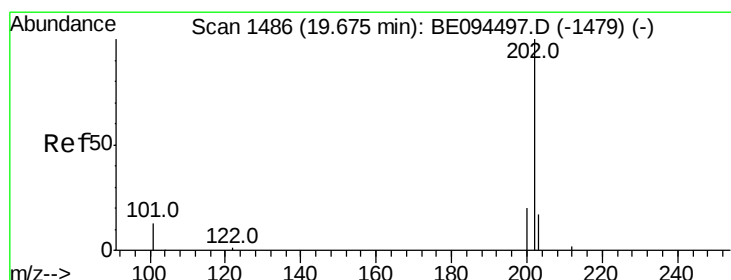
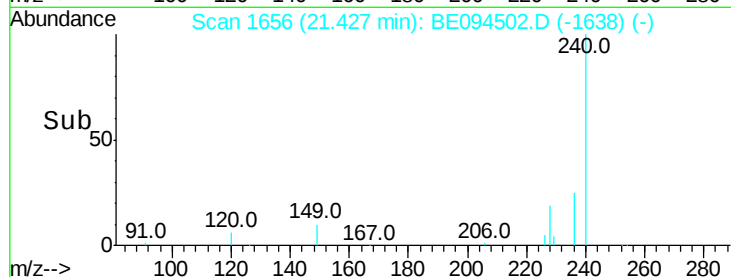
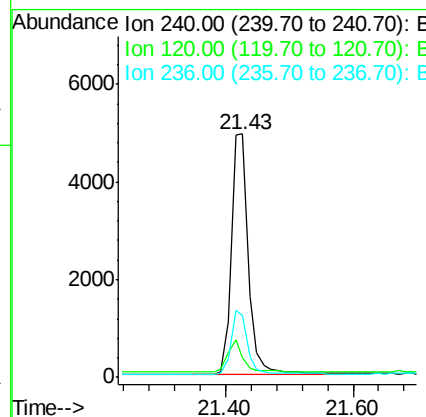
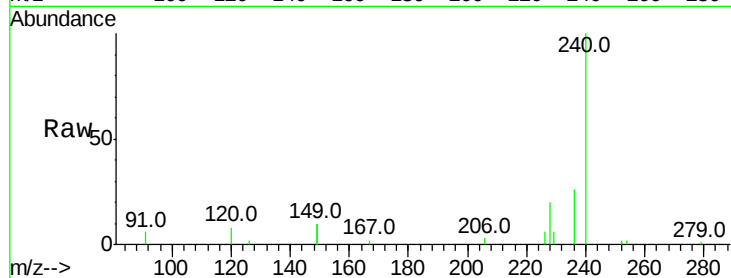
ClientSampleId :

PB103539BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 8.2   | 5.5   | 8.3   |
| 236     | 25.6  | 20.7  | 31.1  |

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#28

Pyrene

Concen: 0.333 ng

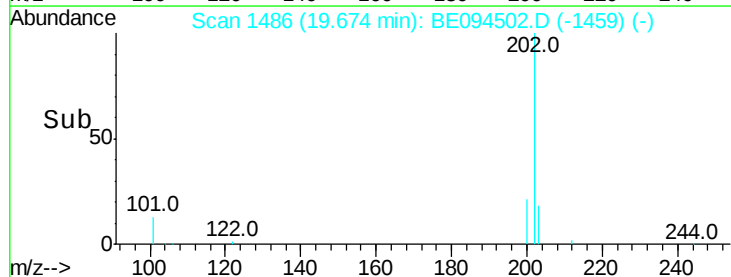
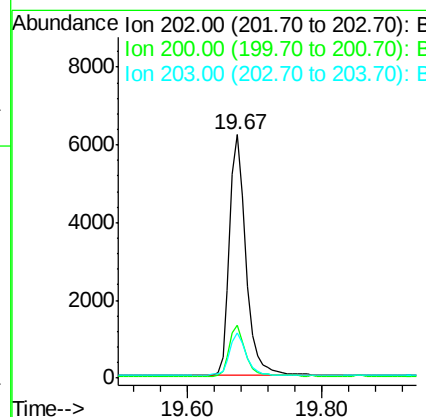
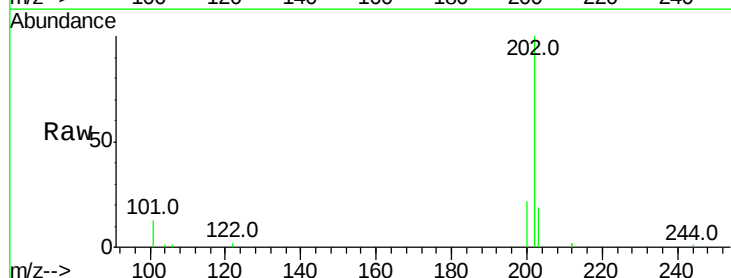
RT: 19.67 min Scan# 1486

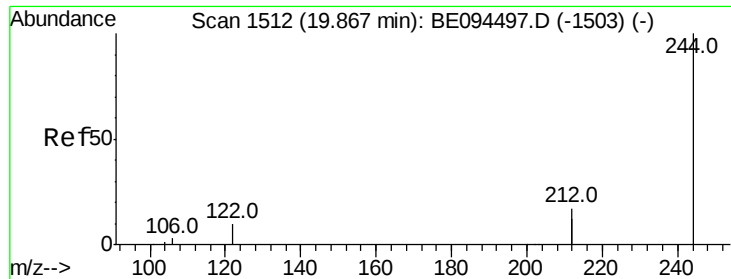
Delta R.T. -0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.6  | 16.6  | 25.0  |
| 203     | 18.2  | 13.8  | 20.8  |





#29

Terphenyl-d14

Concen: 0.372 ng

RT: 19.86 min Scan# 1511

Delta R.T. -0.01 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

Instrument :

BNA\_E

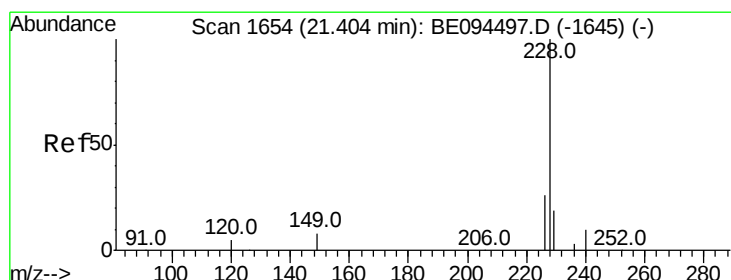
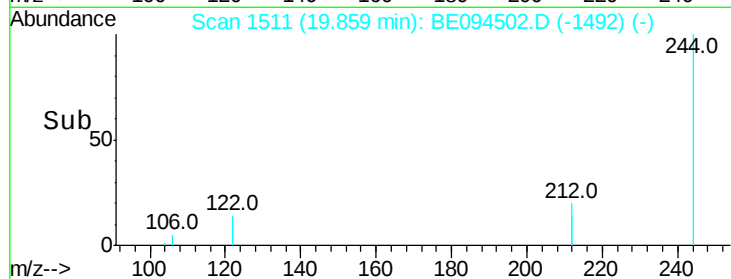
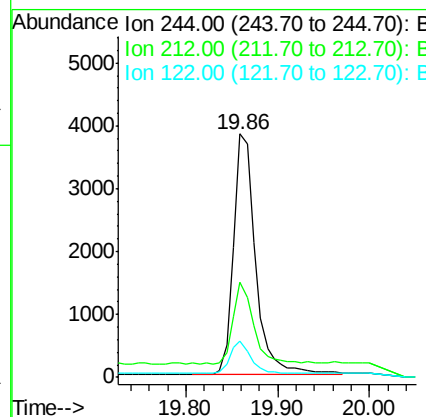
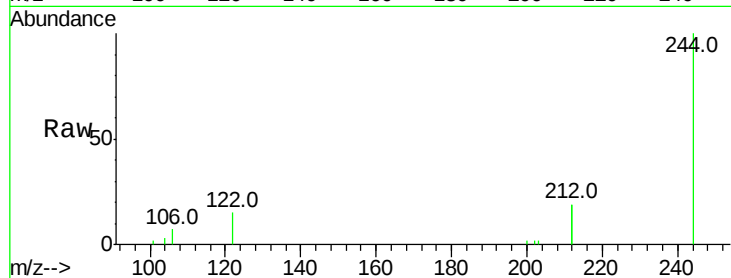
ClientSampled :

PB103539BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 244   | Resp: | 6367  |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 38.8  | 25.4  | 38.0# |
| 122       | 14.9  | 8.1   | 12.1# |

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#30

Benzo(a)anthracene

Concen: 0.353 ng

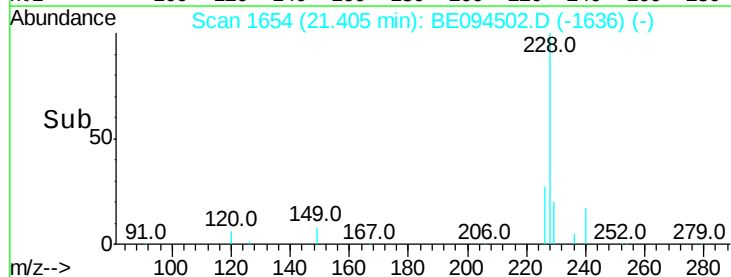
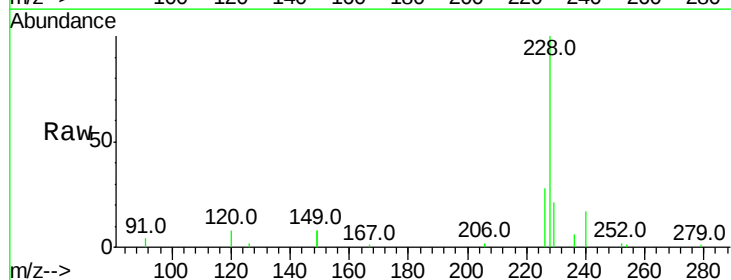
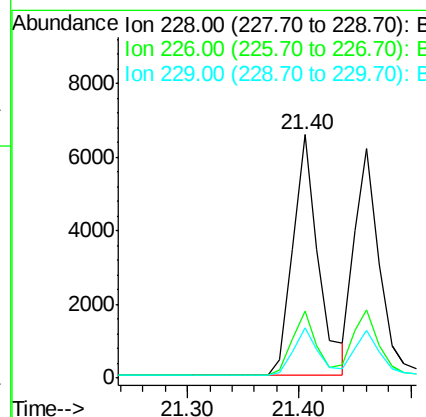
RT: 21.40 min Scan# 1654

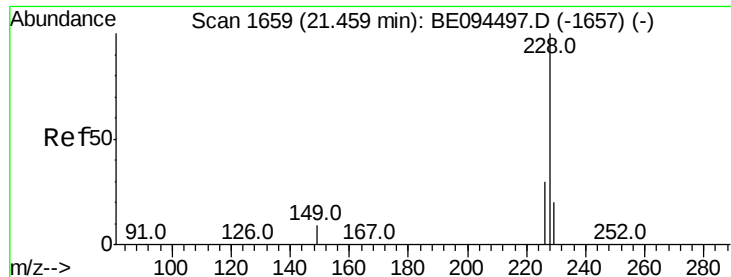
Delta R.T. 0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 10425 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 27.6  | 40.0  | 60.0# |
| 229       | 20.6  | 40.0  | 60.0# |





#31

Chrysene

Concen: 0.328 ng

RT: 21.46 min Scan# 1659

Delta R.T. 0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

Instrument :

BNA\_E

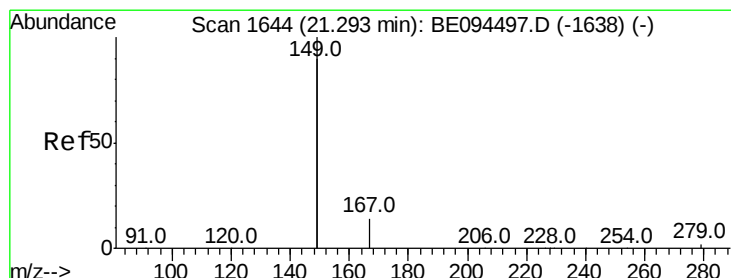
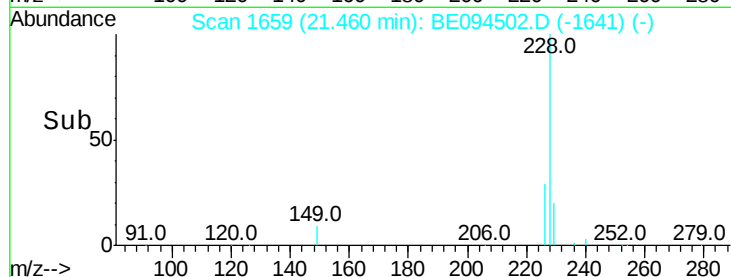
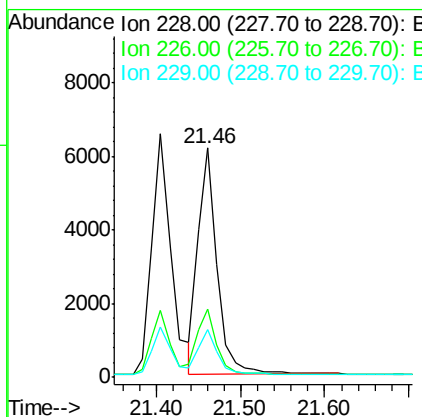
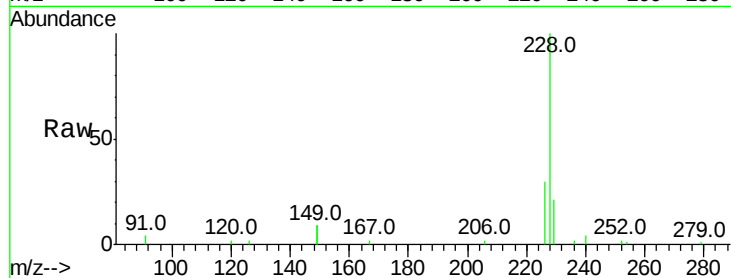
ClientSampleId :

PB103539BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 9819  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.7  | 40.0  | 60.0# |
| 229       | 20.8  | 40.0  | 60.0# |

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.334 ng

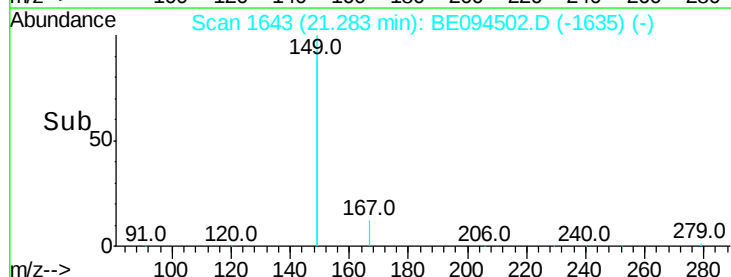
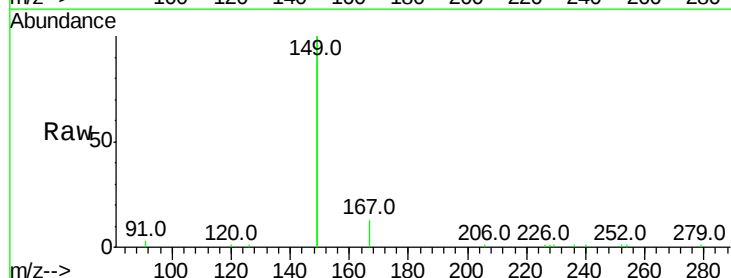
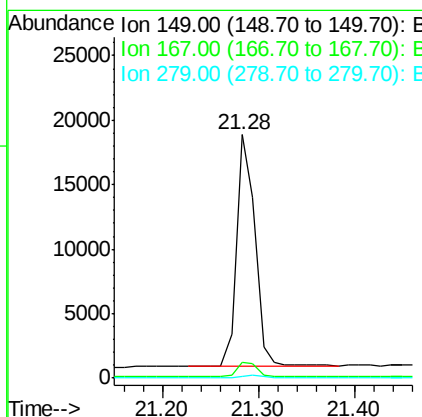
RT: 21.28 min Scan# 1643

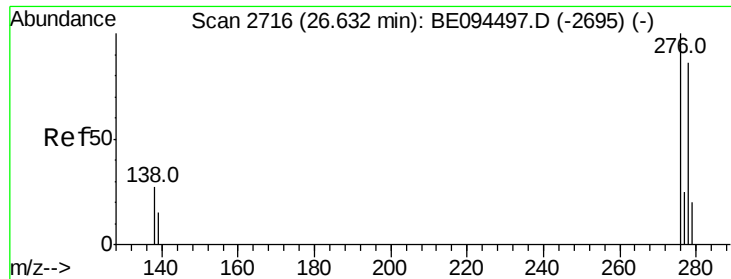
Delta R.T. -0.01 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 24198 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 6.7   | 5.4   | 8.0   |
| 279       | 0.9   | 0.7   | 1.1   |





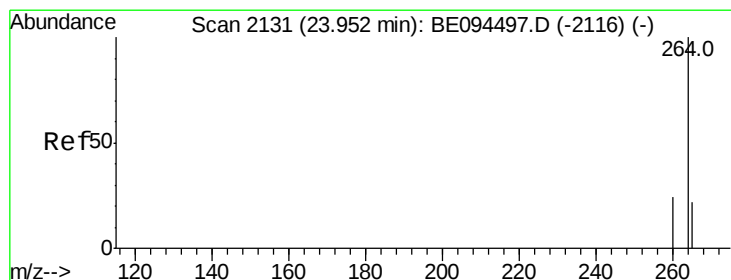
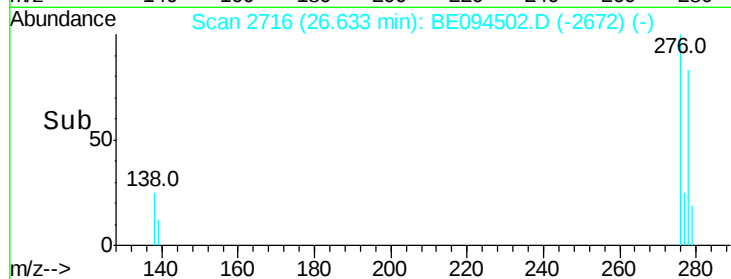
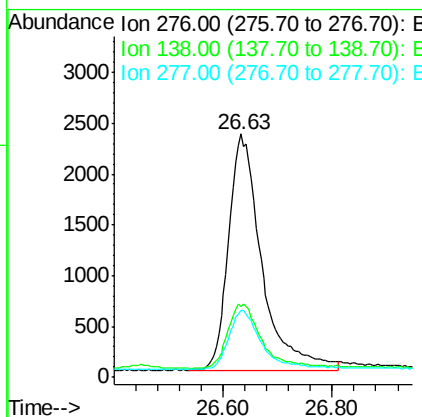
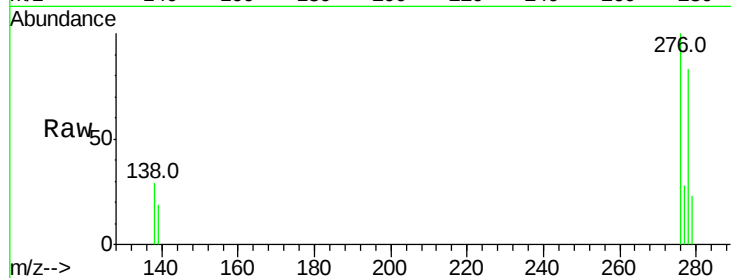
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.355 ng  
 RT: 26.63 min Scan# 2716  
 Delta R.T. 0.00 min  
 Lab File: BE094502.D  
 Acq: 23 Oct 2017 19:09

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB103539BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.9  | 22.5  | 33.7  |
| 277     | 24.1  | 19.9  | 29.9  |

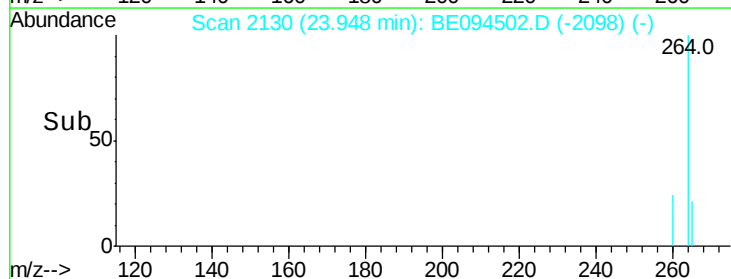
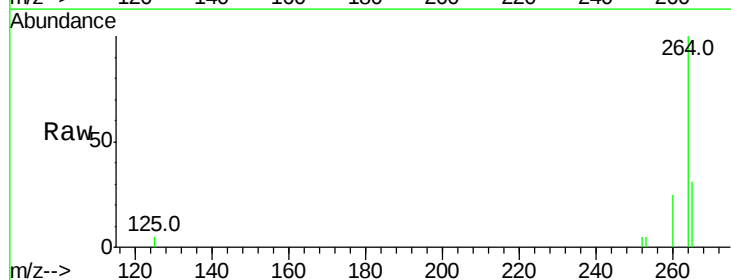
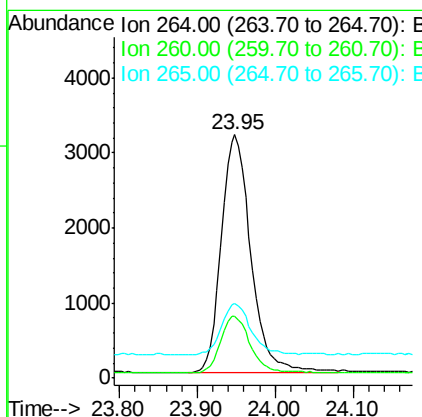
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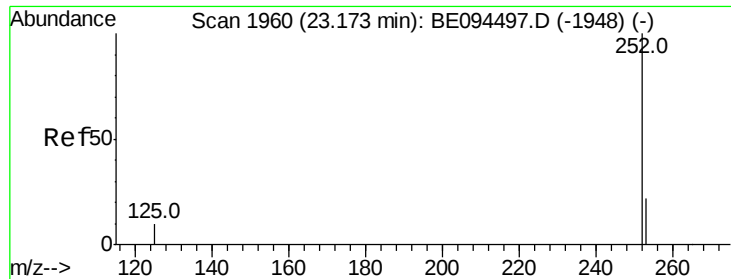
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#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.95 min Scan# 2130  
 Delta R.T. -0.00 min  
 Lab File: BE094502.D  
 Acq: 23 Oct 2017 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.4  | 20.5  | 30.7  |
| 265     | 30.5  | 22.8  | 34.2  |





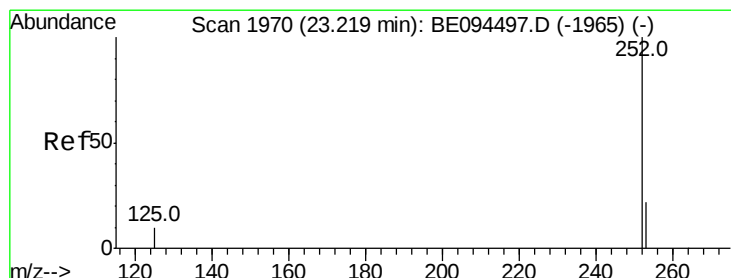
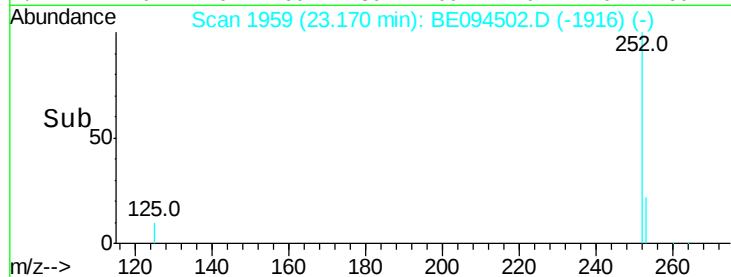
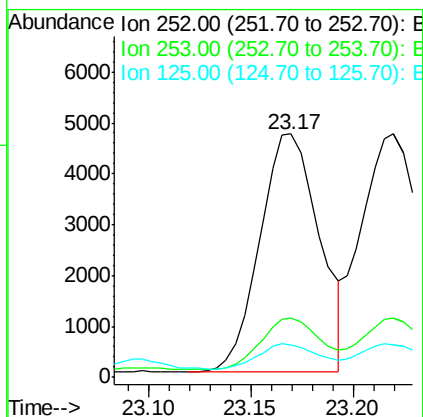
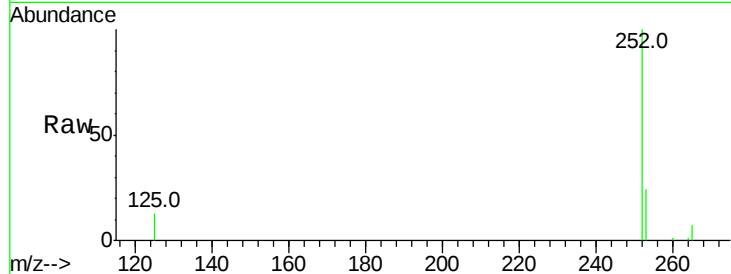
#35  
Benzo(b)fluoranthene  
Concen: 0.350 ng  
RT: 23.17 min Scan# 1959  
Delta R.T. -0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

Instrument :  
BNA\_E  
ClientSampleId :  
PB103539BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.5  | 48.0  | 72.0# |
| 125     | 13.3  | 56.0  | 84.0# |

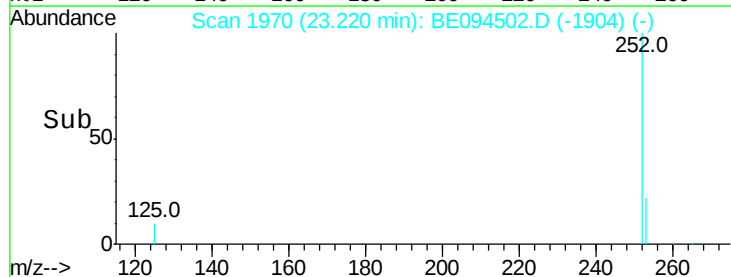
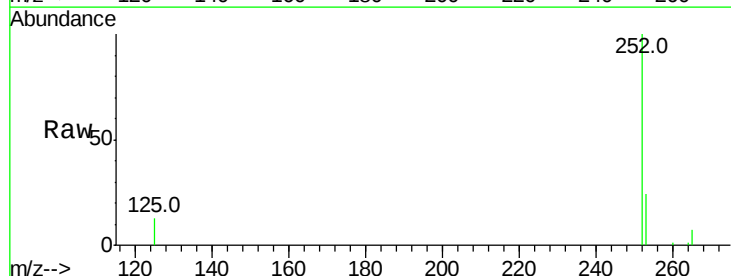
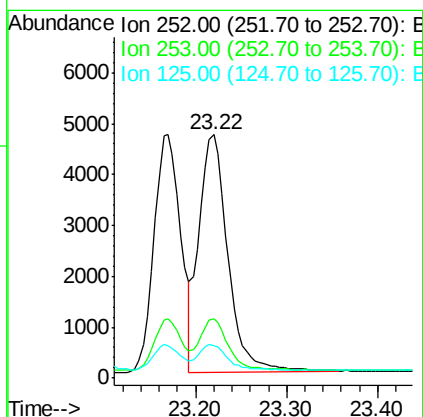
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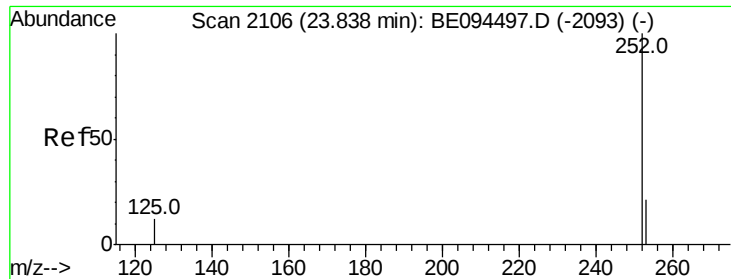
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#36  
Benzo(k)fluoranthene  
Concen: 0.357 ng  
RT: 23.22 min Scan# 1970  
Delta R.T. 0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 48.0  | 72.0# |
| 125     | 13.4  | 56.0  | 84.0# |





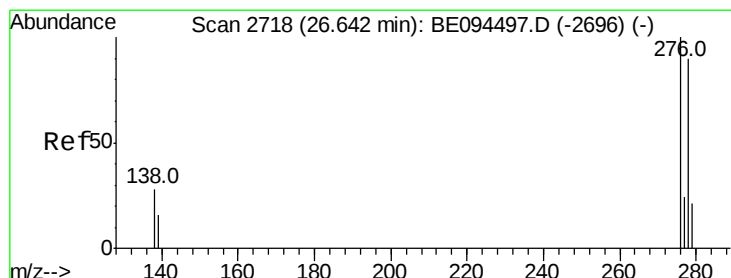
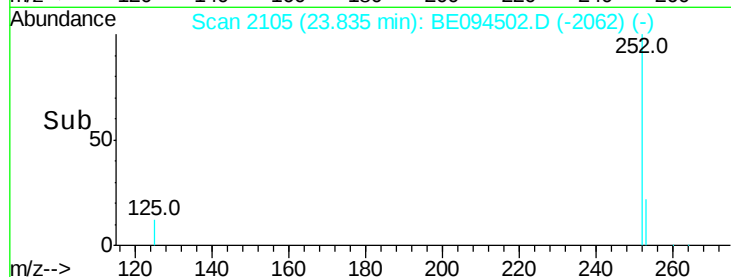
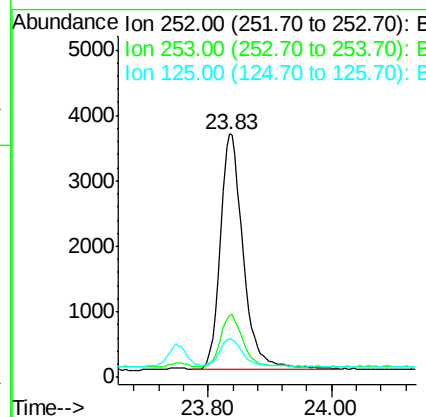
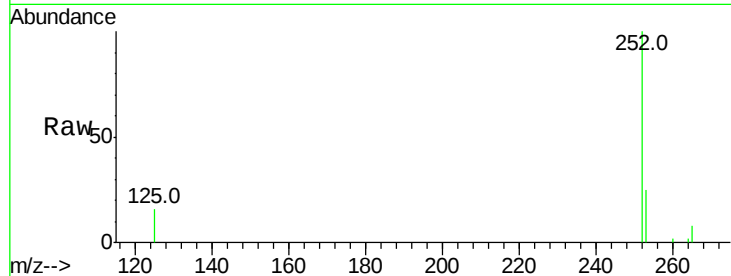
#37  
Benzo(a)pyrene  
Concen: 0.354 ng  
RT: 23.83 min Scan# 2105  
Delta R.T. -0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

Instrument :  
BNA\_E  
ClientSampled :  
PB103539BS

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 252     | 100   |       |        |
| 253     | 25.2  | 52.0  | 78.0#  |
| 125     | 16.0  | 68.0  | 102.0# |

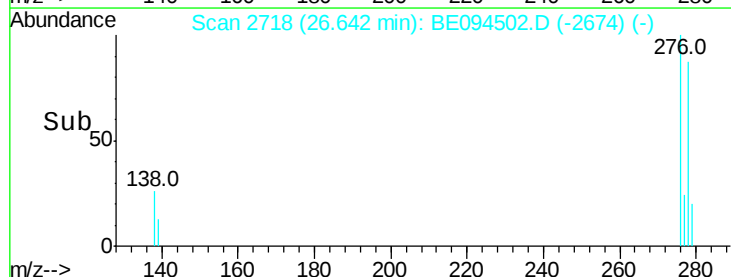
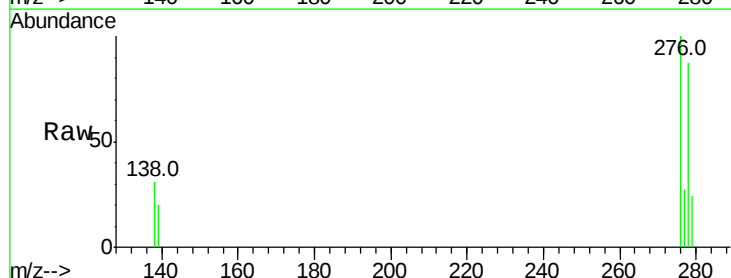
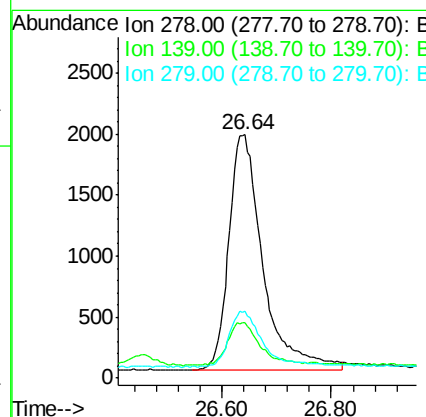
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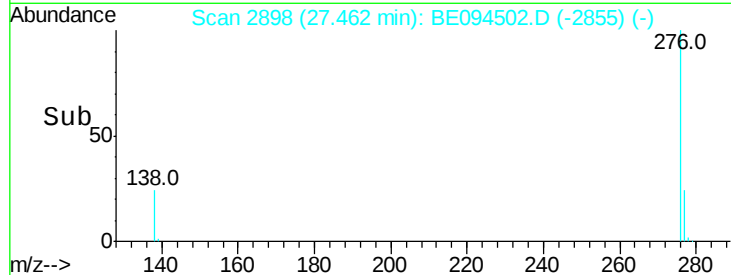
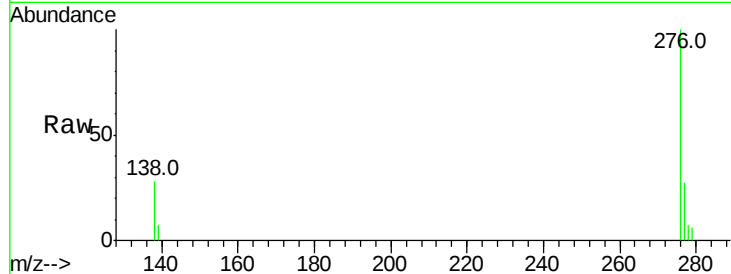
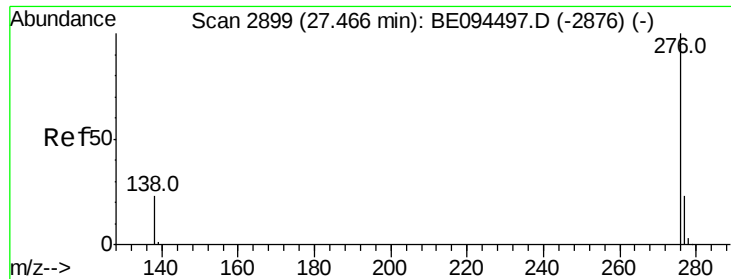
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#38  
Dibenzo(a,h)anthracene  
Concen: 0.354 ng  
RT: 26.64 min Scan# 2718  
Delta R.T. 0.00 min  
Lab File: BE094502.D  
Acq: 23 Oct 2017 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 22.8  | 56.0  | 84.0# |
| 279     | 27.3  | 52.0  | 78.0# |





#39

Benzo(a,h,i)perylene

Concen: 0.356 ng

RT: 27.46 min Scan# 2898

Delta R.T. -0.00 min

Lab File: BE094502.D

Acq: 23 Oct 2017 19:09

Instrument :

BNA\_E

ClientSampleId :

PB103539BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 27.5  | 52.0  | 78.0# |
| 138     | 28.2  | 44.0  | 66.0# |

Manual Integrations  
APPROVED

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