

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE111617\  
 Data File : BE094820.D  
 Acq On : 15 Nov 2017 18:24  
 Operator : SJ/JU  
 Sample : PB104239BSD  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB104239BSD

Manual Integrations  
 APPROVED

SOHIL  
 11/16/2017 6:31:52 PM

Quant Time: Nov 16 02:07:16 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 22:40:47 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.92  | 152  | 780      | 0.40 | ng    | 0.01     |
| 7) Naphthalene-d8         | 10.72 | 136  | 3915     | 0.40 | ng    | 0.02     |
| 13) Acenaphthene-d10      | 14.53 | 164  | 2125     | 0.40 | ng    | 0.02     |
| 19) Phenanthrene-d10      | 17.27 | 188  | 5895     | 0.40 | ng    | 0.03     |
| 27) Chrysene-d12          | 21.44 | 240  | 7060     | 0.40 | ng    | 0.01     |
| 34) Perylene-d12          | 23.99 | 264  | 7364     | 0.40 | ng    | 0.04     |

## System Monitoring Compounds

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| 4) 2-Fluorophenol           | 5.60  | 112 | 659   | 0.25 | ng | 0.08 |
| 5) Phenol-d6                | 7.21  | 99  | 1176  | 0.29 | ng | 0.08 |
| 8) Nitrobenzene-d5          | 9.14  | 82  | 982m  | 0.31 | ng | 0.07 |
| 11) 2-Methylnaphthalene-d10 | 12.33 | 152 | 2533  | 0.40 | ng | 0.04 |
| 14) 2,4,6-Tribromophenol    | 16.09 | 330 | 201   | 0.34 | ng | 0.07 |
| 15) 2-Fluorobiphenyl        | 13.18 | 172 | 2502  | 0.33 | ng | 0.03 |
| 25) Fluoranthene-d10        | 19.30 | 212 | 22384 | 0.29 | ng | 0.02 |
| 29) Terphenyl-d14           | 19.88 | 244 | 3864  | 0.29 | ng | 0.01 |

## Target Compounds

|                                |       |     |       |       |    | Qvalue |
|--------------------------------|-------|-----|-------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.41  | 88  | 382   | 0.289 | ng | # 1    |
| 3) n-Nitrosodimethylamine      | 3.75  | 42  | 338   | 0.267 | ng | # 53   |
| 6) bis(2-Chloroethyl)ether     | 7.38  | 93  | 724   | 0.232 | ng | # 82   |
| 9) Naphthalene                 | 10.77 | 128 | 12997 | 0.293 | ng | # 98   |
| 10) Hexachlorobutadiene        | 11.01 | 225 | 548   | 0.342 | ng | # 99   |
| 12) 2-Methylnaphthalene        | 12.40 | 142 | 2170  | 0.289 | ng | # 98   |
| 16) Acenaphthylene             | 14.26 | 152 | 3282  | 0.293 | ng | # 99   |
| 17) Acenaphthene               | 14.60 | 154 | 2076  | 0.288 | ng | # 98   |
| 18) Fluorene                   | 15.59 | 166 | 2672  | 0.289 | ng | # 98   |
| 20) 4-Bromophenyl-phenylether  | 16.45 | 248 | 763   | 0.237 | ng | # 84   |
| 21) Hexachlorobenzene          | 16.58 | 284 | 696   | 0.247 | ng | # 92   |
| 22) Pentachlorophenol          | 17.07 | 266 | 244m  | 0.678 | ng | # 99   |
| 23) Phenanthrene               | 17.30 | 178 | 4723  | 0.283 | ng | # 99   |
| 24) Anthracene                 | 17.43 | 178 | 4469  | 0.258 | ng | # 80   |
| 26) Fluoranthene               | 19.33 | 202 | 6085  | 0.247 | ng | # 98   |
| 28) Pyrene                     | 19.70 | 202 | 6390  | 0.259 | ng | # 99   |
| 30) Benzo(a)anthracene         | 21.43 | 228 | 7552  | 0.329 | ng | # 63   |
| 31) Chrysene                   | 21.48 | 228 | 7280  | 0.312 | ng | # 65   |
| 32) Bis(2-ethylhexyl)phthalate | 21.28 | 149 | 17117 | 0.304 | ng | # 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.71 | 276 | 8050  | 0.373 | ng | # 96   |
| 35) Benzo(b)fluoranthene       | 23.21 | 252 | 7277  | 0.305 | ng | # 42   |
| 36) Benzo(k)fluoranthene       | 23.26 | 252 | 8423  | 0.332 | ng | # 41   |
| 37) Benzo(a)pyrene             | 23.88 | 252 | 7660  | 0.331 | ng | # 36   |
| 38) Dibenzo(a,h)anthracene     | 26.70 | 278 | 6919  | 0.333 | ng | # 46   |
| 39) Benzo(g,h,i)perylene       | 27.56 | 276 | 6834  | 0.352 | ng | # 57   |

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

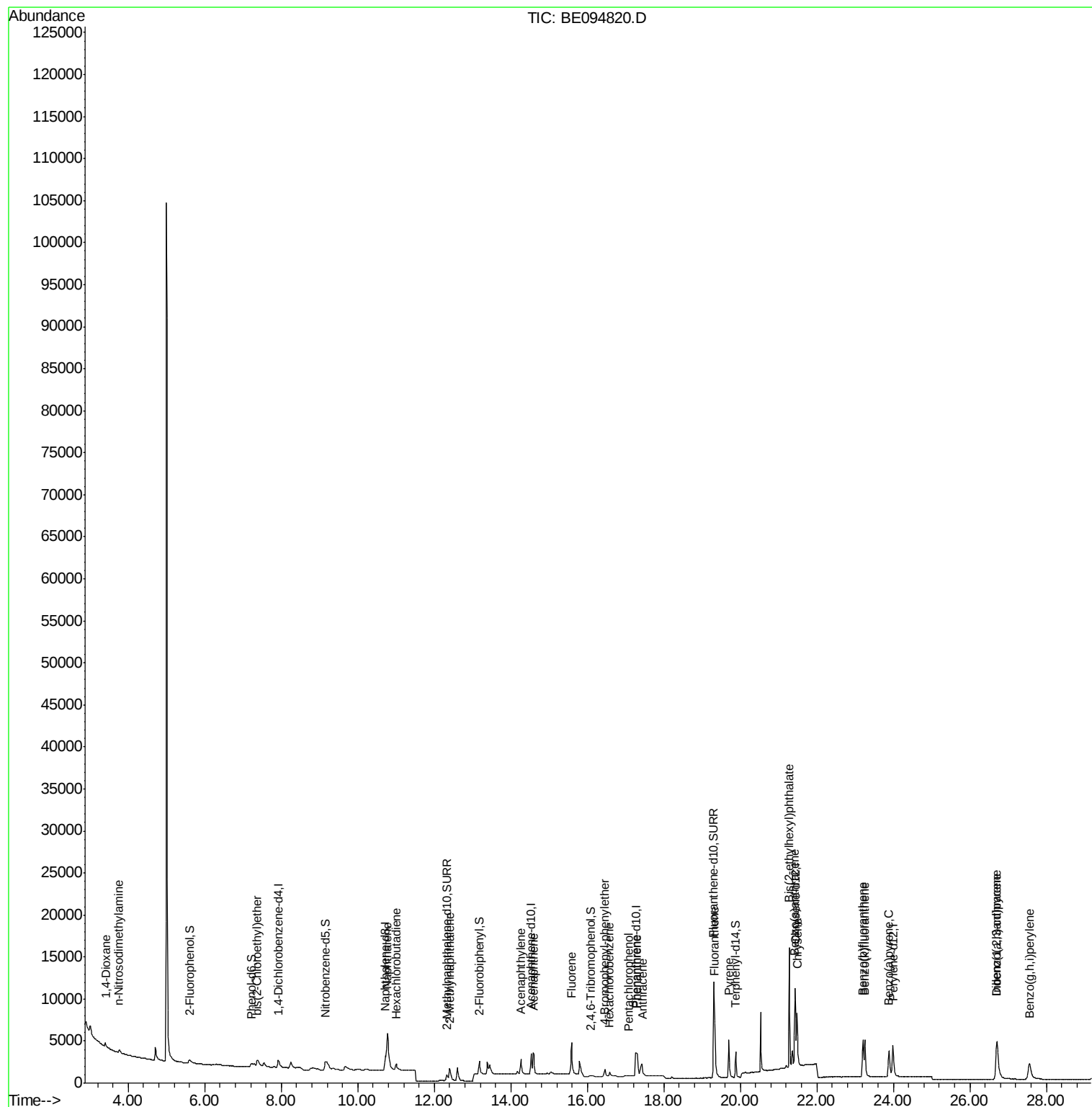
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE111617\  
Data File : BE094820.D  
Acq On : 15 Nov 2017 18:24  
Operator : SJ/JU  
Sample : PB104239BSD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

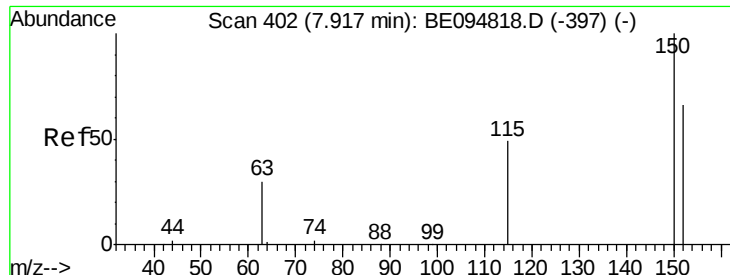
Instrument :  
BNA\_E  
ClientSampleId :  
PB104239BSD

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Quant Time: Nov 16 02:07:16 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 22:40:47 2017  
Response via : Initial Calibration

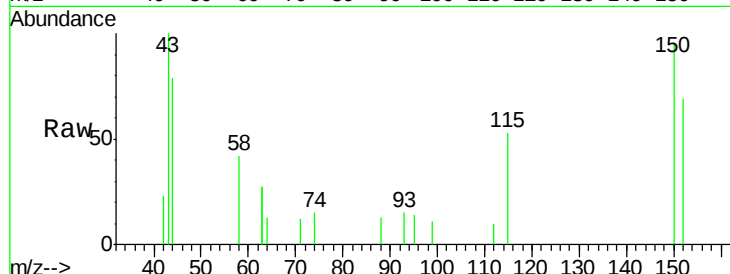




#1

1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.92 min Scan# 402  
Delta R.T. 0.01 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

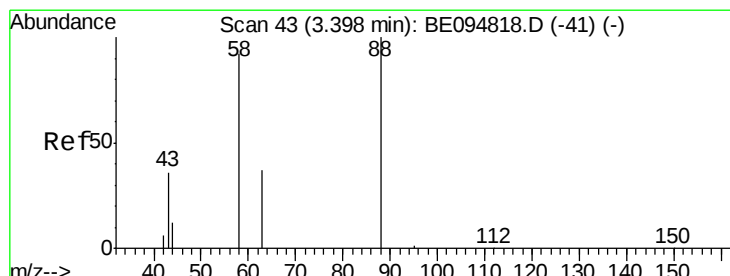
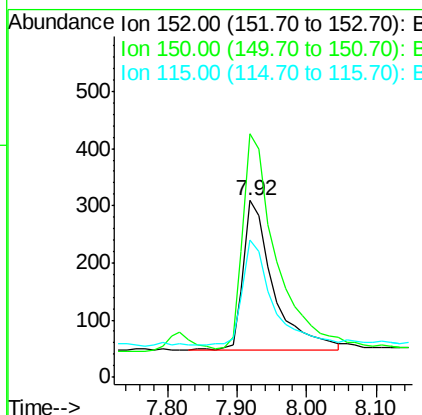
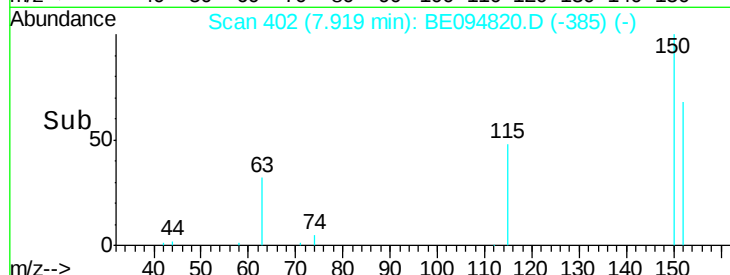
Instrument :  
BNA\_E  
ClientSampleId :  
PB104239BSD



Tgt Ion: 152 Resp: 780  
Ion Ratio Lower Upper  
152 100  
150 137.9 117.2 175.8  
115 77.3 57.0 85.6

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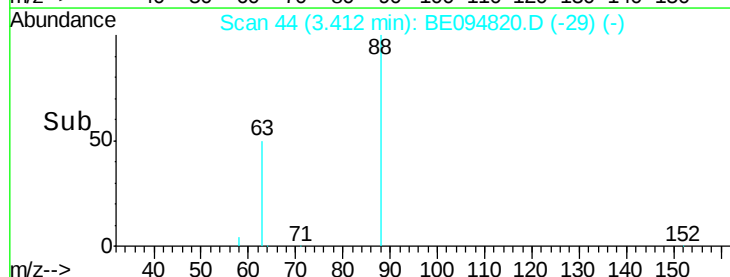
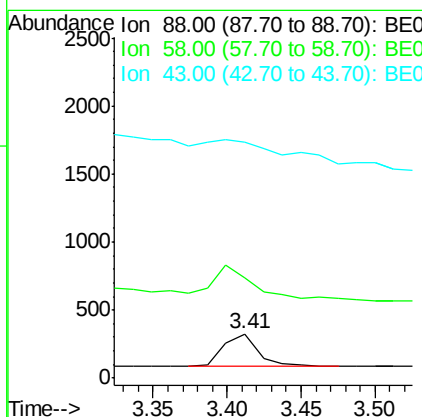
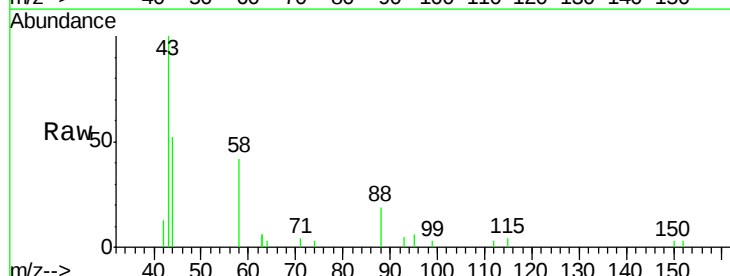
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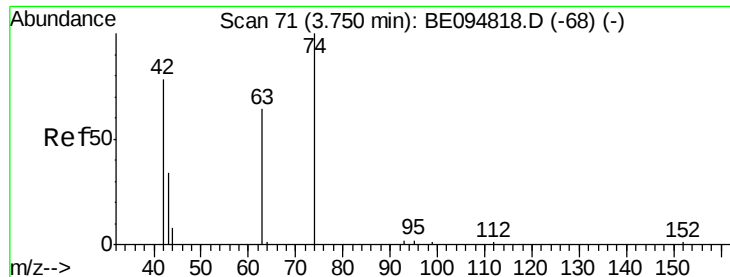


#2

1,4-Dioxane  
Concen: 0.289 ng  
RT: 3.41 min Scan# 44  
Delta R.T. -0.01 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

Tgt Ion: 88 Resp: 382  
Ion Ratio Lower Upper  
88 100  
58 237.2 63.2 94.8#  
43 0.0 41.2 61.8#





#3

n-Nitrosodimethylamine

Concen: 0.267 ng

RT: 3.75 min Scan# 71

Delta R.T. 0.00 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

Instrument :

BNA\_E

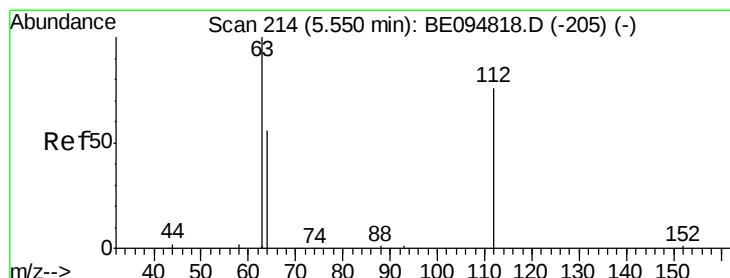
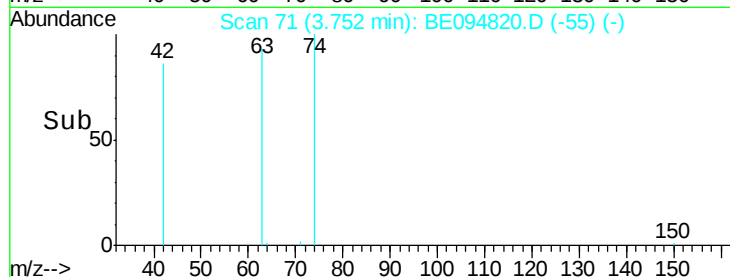
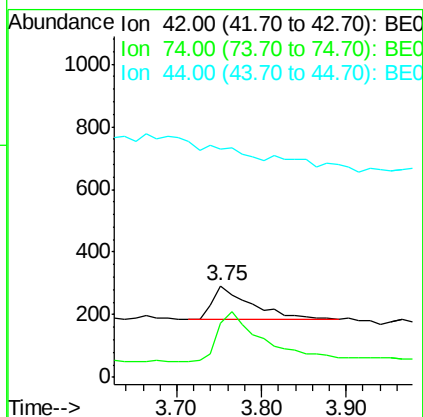
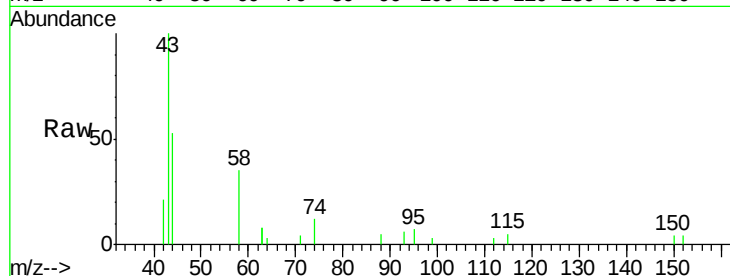
ClientSampled :

PB104239BSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 42    | Resp: | 338    |
| Ion Ratio | Lower | Upper |        |
| 42        | 100   |       |        |
| 74        | 179.9 | 100.3 | 150.5# |
| 44        | 0.0   | 17.0  | 25.4#  |

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#4

2-Fluorophenol

Concen: 0.247 ng

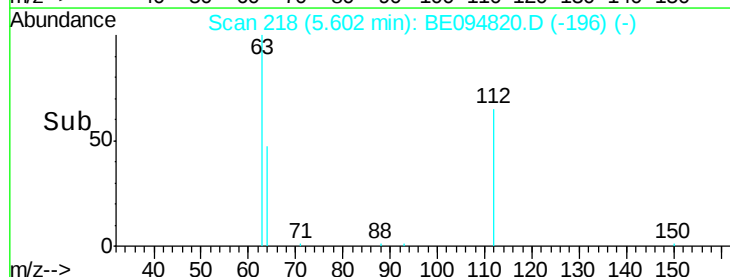
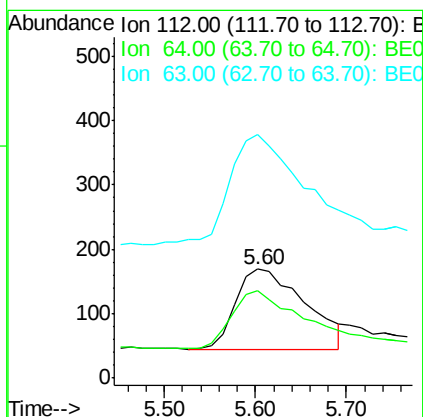
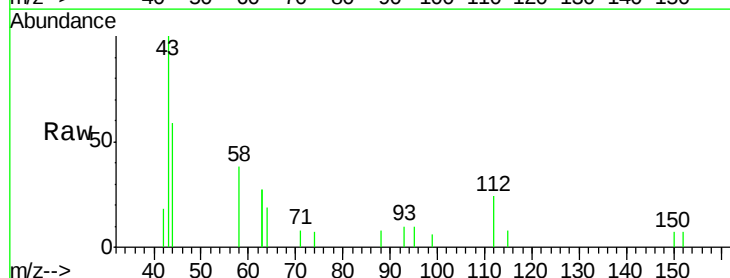
RT: 5.60 min Scan# 218

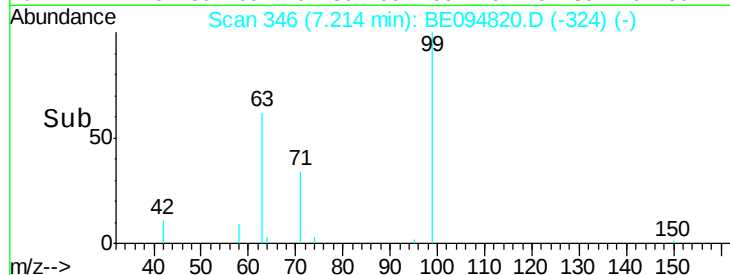
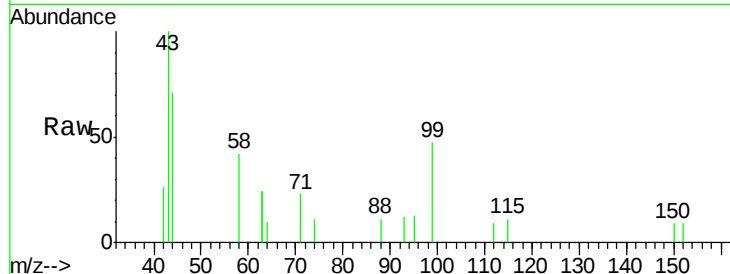
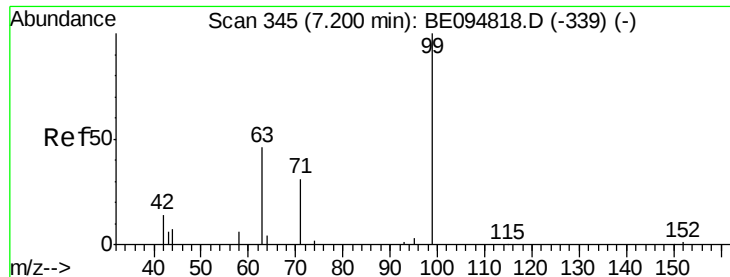
Delta R.T. 0.08 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 659   |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 71.6  | 60.1  | 90.1  |
| 63        | 141.4 | 116.8 | 175.2 |





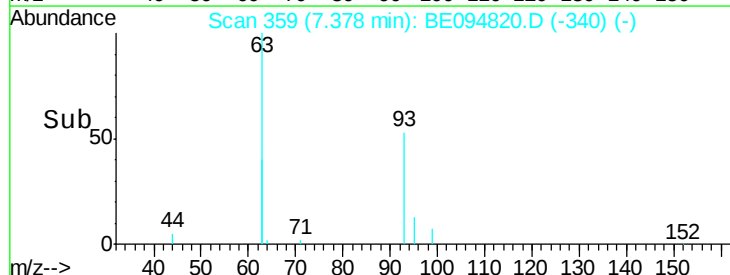
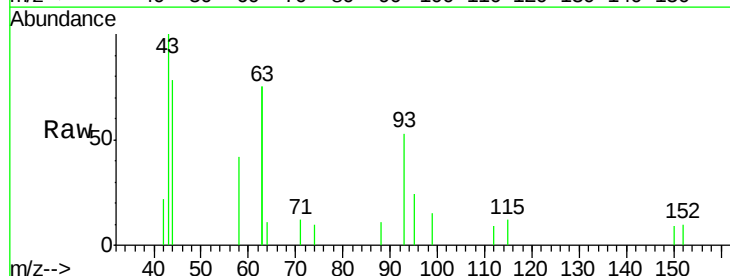
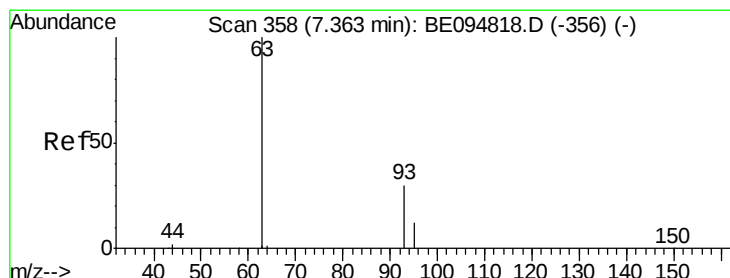
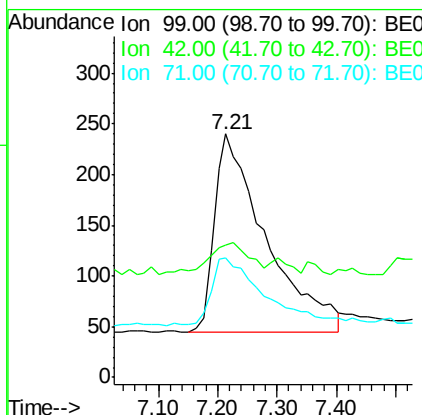
#5  
Phenol-d6  
Concen: 0.292 ng  
RT: 7.21 min Scan# 346  
Delta R.T. 0.08 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

Tgt Ion: 99 Resp: 1176  
Ion Ratio Lower Upper  
99 100  
42 12.3 20.2 30.2#  
71 35.6 28.4 42.6

Instrument :  
BNA\_E  
ClientSampleId :  
PB104239BSD

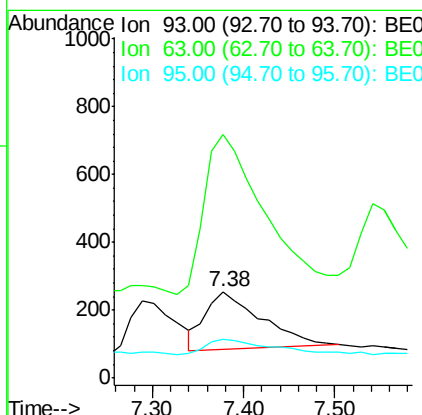
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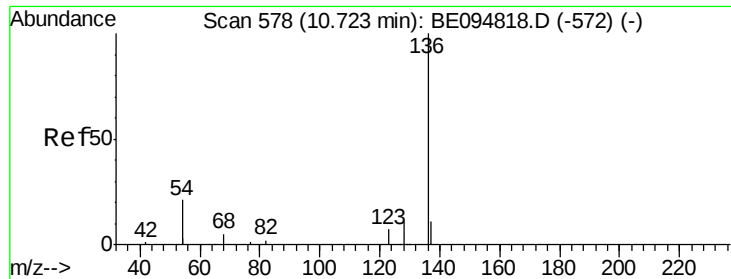
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#6  
bis(2-Chloroethyl)ether  
Concen: 0.232 ng  
RT: 7.38 min Scan# 359  
Delta R.T. 0.04 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

Tgt Ion: 93 Resp: 724  
Ion Ratio Lower Upper  
93 100  
63 302.8 275.3 412.9  
95 29.8 25.2 37.8





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.72 min Scan# 578

Delta R.T. 0.02 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

Instrument :

BNA\_E

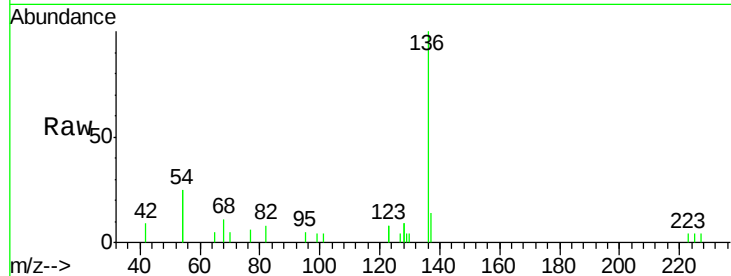
ClientSampleId :

PB104239BSD

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   | 3915 |       |       |
| 137     | 14.2  | 9.5  | 14.3  |       |
| 54      | 49.5  | 29.1 | 43.7# |       |
| 68      | 10.7  | 6.2  | 9.2#  |       |

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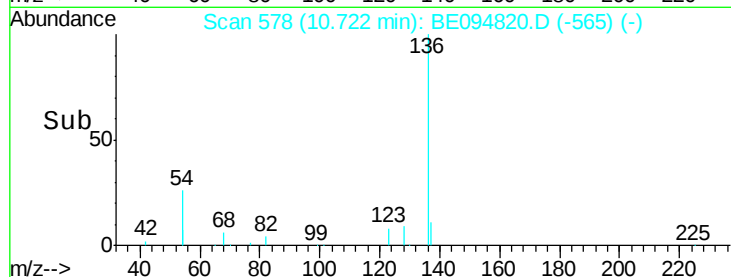
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

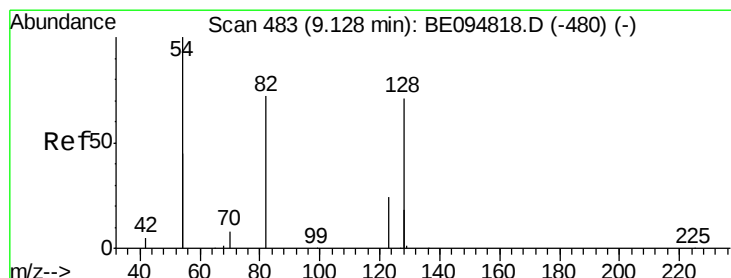
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0

Time-->



Time-->



#8

Nitrobenzene-d5

Concen: 0.314 ng m

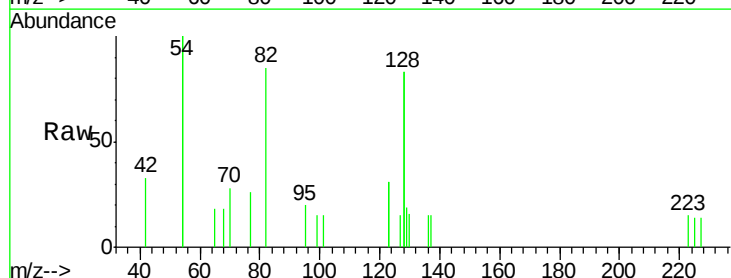
RT: 9.14 min Scan# 484

Delta R.T. 0.07 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

| Tgt Ion | Ratio | Resp  | Lower  | Upper |
|---------|-------|-------|--------|-------|
| 82      | 100   | 982   |        |       |
| 128     | 96.7  | 150.0 | 225.0# |       |
| 54      | 117.0 | 154.2 | 231.4# |       |

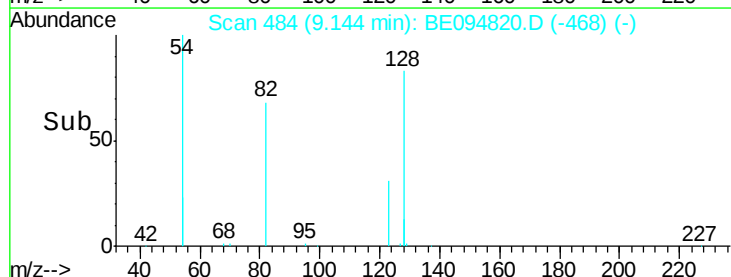


Abundance Ion 82.00 (81.70 to 82.70): BE0

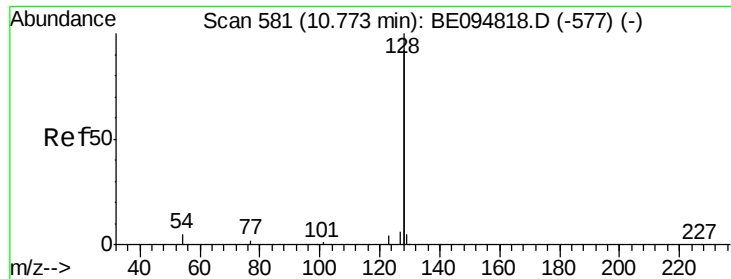
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

Time-->



Time-->



#9

Naphthalene

Concen: 0.293 ng

RT: 10.77 min Scan# 581

Delta R.T. 0.03 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

Instrument :

BNA\_E

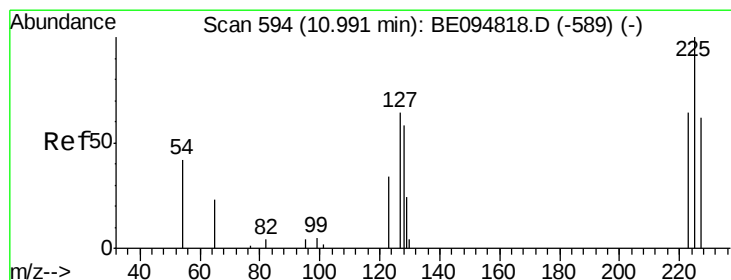
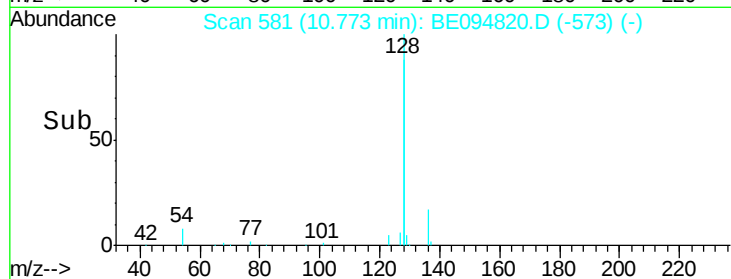
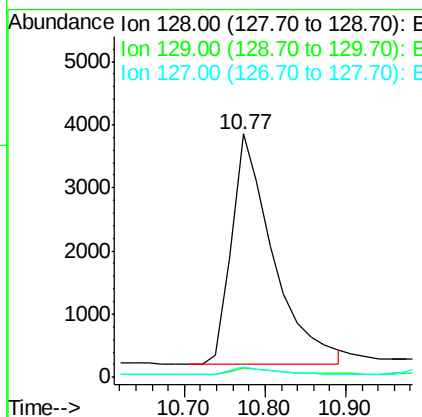
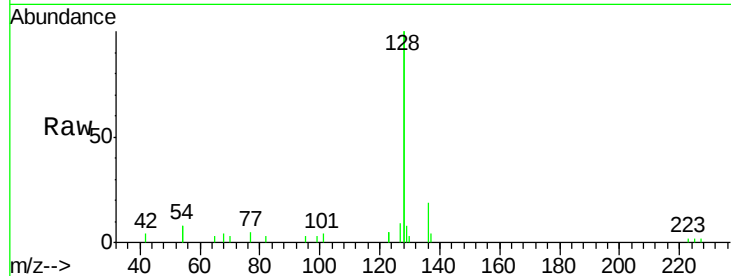
ClientSampleId :

PB104239BSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 12997 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 4.0   | 2.6   | 3.8#  |
| 127       | 4.4   | 2.8   | 4.2#  |

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#10

Hexachlorobutadiene

Concen: 0.342 ng

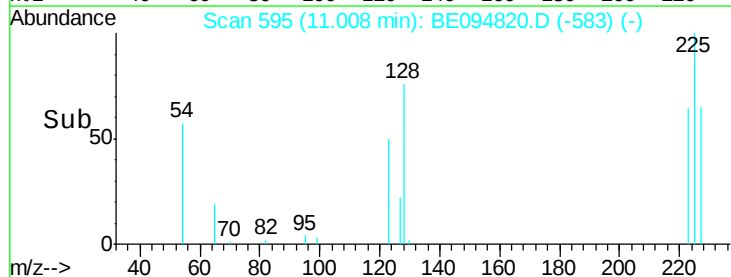
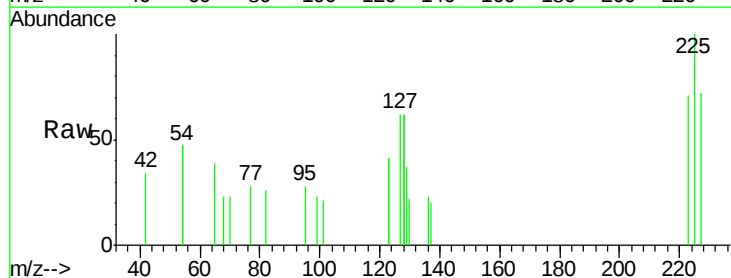
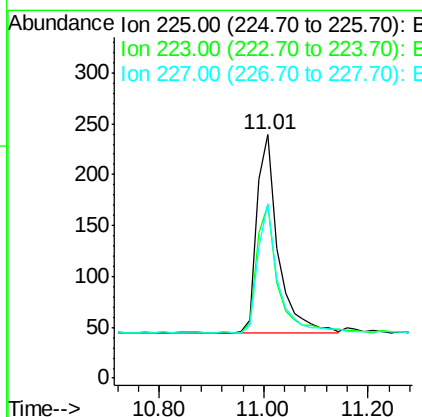
RT: 11.01 min Scan# 595

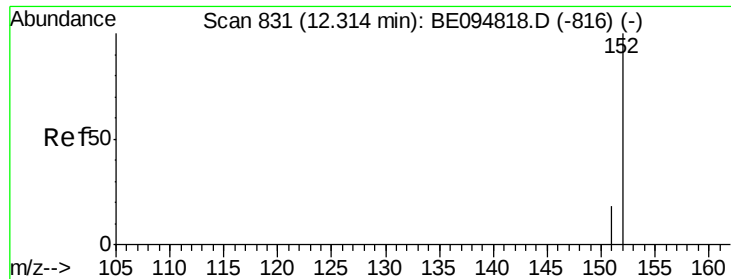
Delta R.T. -0.00 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 548  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 64.8  | 53.0  | 79.6 |
| 227       | 63.9  | 51.4  | 77.2 |





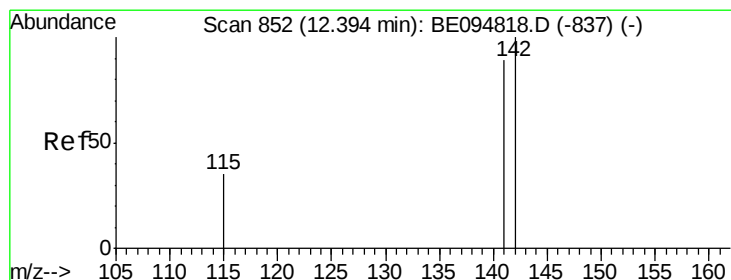
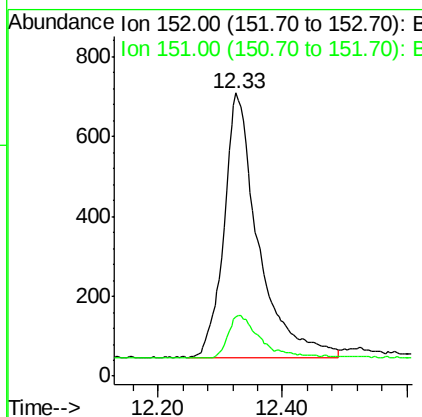
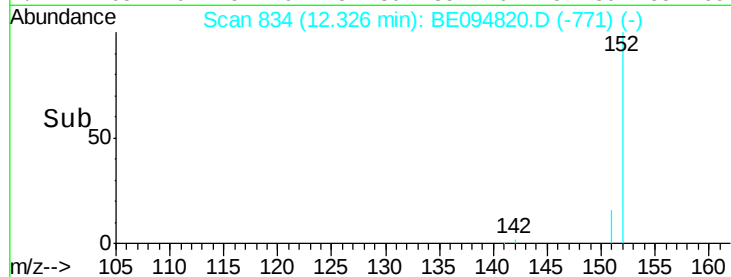
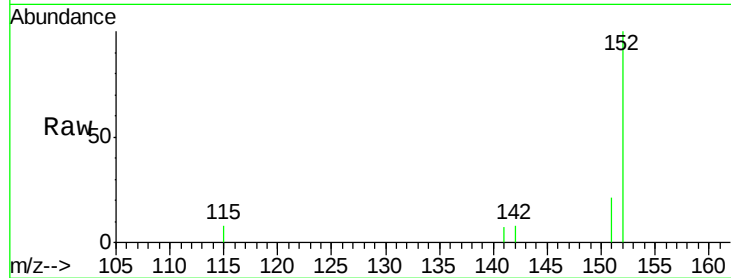
#11  
2-Methylnaphthalene-d10  
Concen: 0.403 ng  
RT: 12.33 min Scan# 834  
Delta R.T. 0.04 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

Instrument :  
BNA\_E  
ClientSampleId :  
PB104239BSD

Tgt Ion:152 Resp: 2533  
Ion Ratio Lower Upper  
152 100  
151 15.1 15.4 23.0#

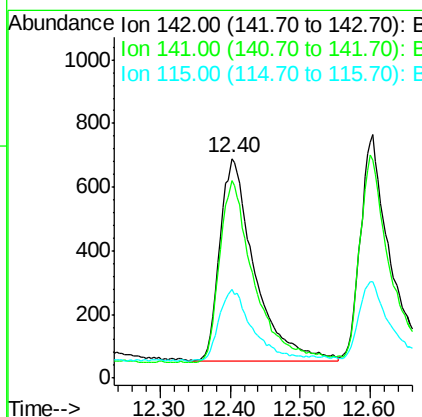
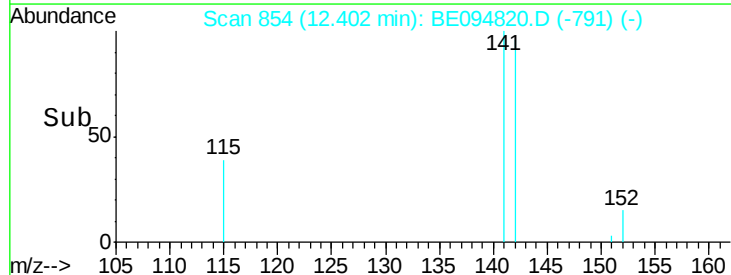
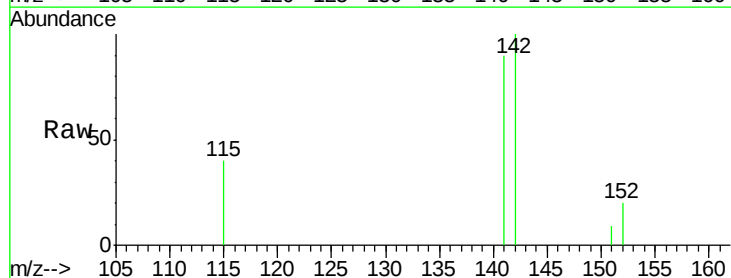
Manual Integrations  
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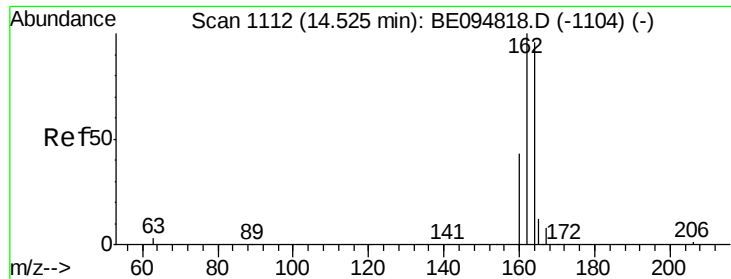
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#12  
2-Methylnaphthalene  
Concen: 0.289 ng  
RT: 12.40 min Scan# 854  
Delta R.T. 0.04 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

Tgt Ion:142 Resp: 2170  
Ion Ratio Lower Upper  
142 100  
141 90.1 70.4 105.6  
115 40.3 31.7 47.5





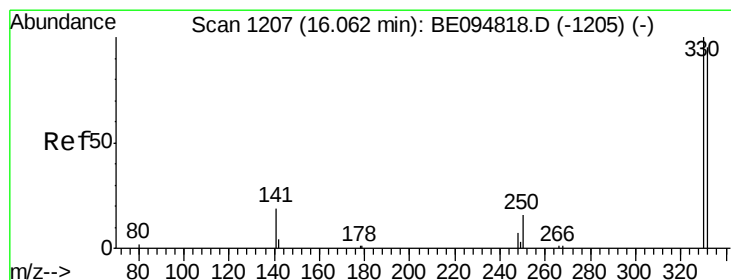
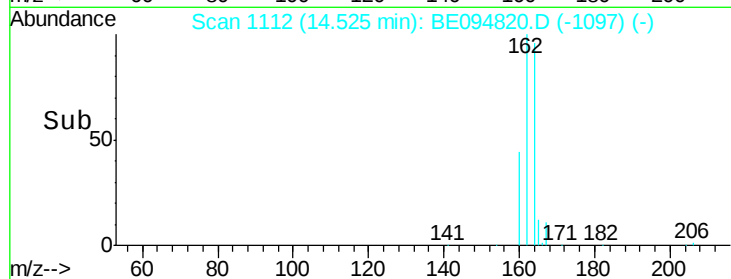
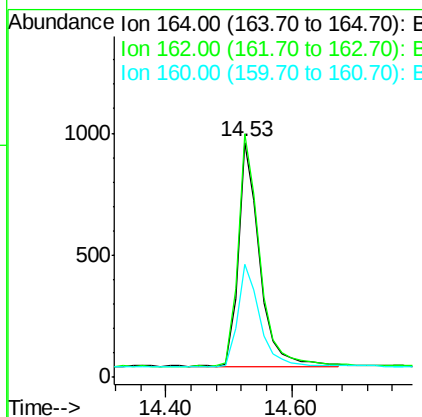
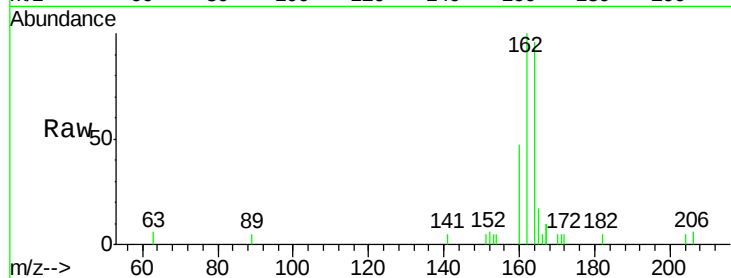
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.53 min Scan# 1112  
Delta R.T. 0.02 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

Instrument :  
BNA\_E  
ClientSampled :  
PB104239BSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.6 | 83.1  | 124.7 |
| 160     | 48.2  | 37.1  | 55.7  |

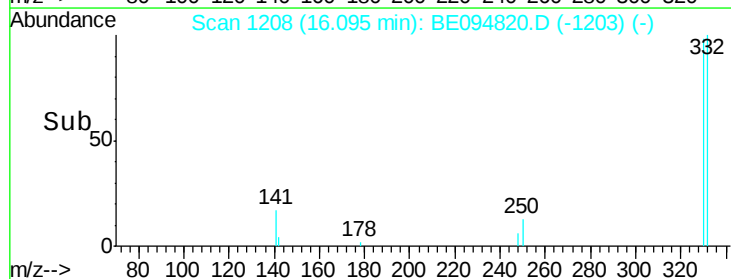
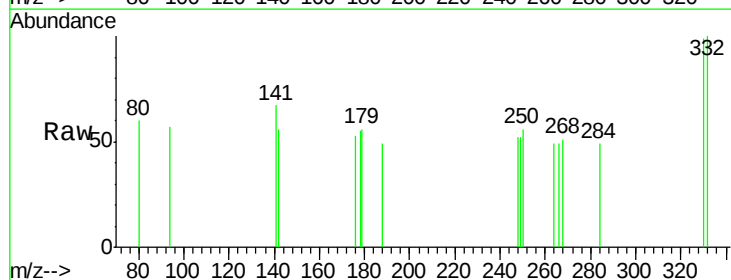
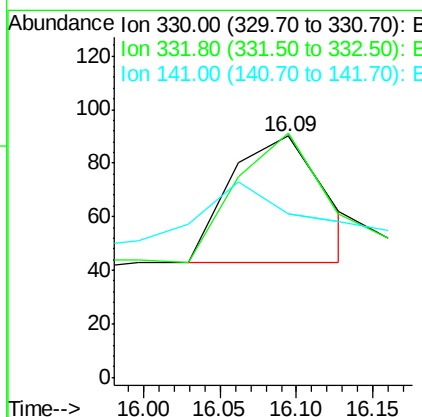
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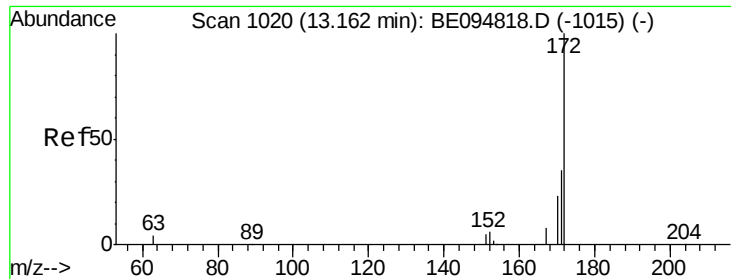
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#14  
2,4,6-Tribromophenol  
Concen: 0.343 ng  
RT: 16.09 min Scan# 1208  
Delta R.T. 0.07 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 330     | 100   |       |        |
| 332     | 95.5  | 152.7 | 229.1# |
| 141     | 0.0   | 33.7  | 50.5#  |





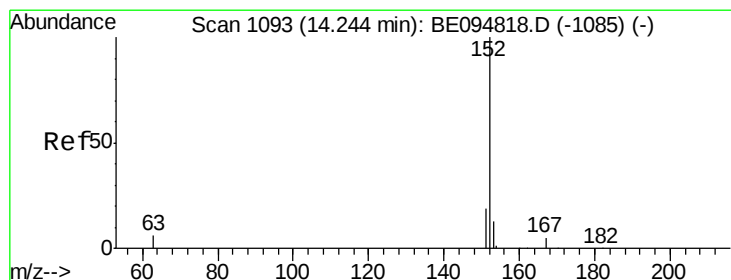
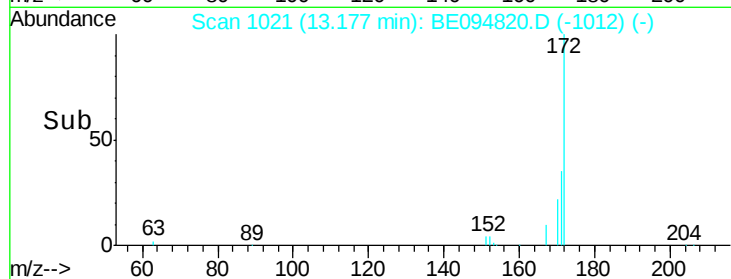
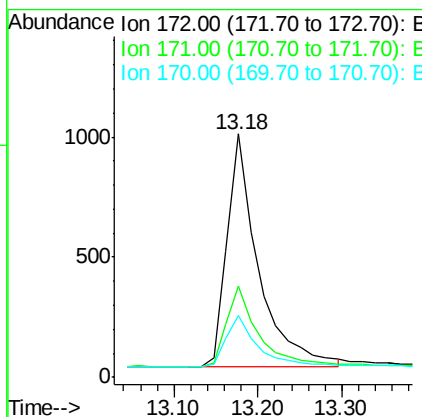
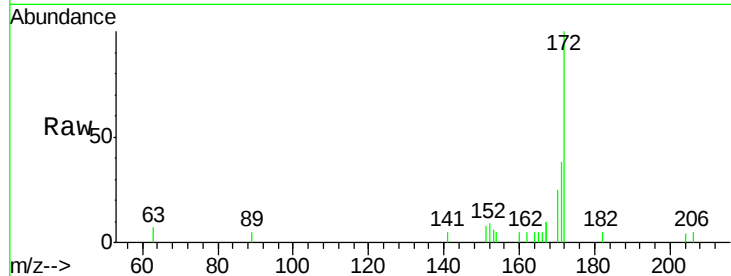
#15  
2-Fluorobiphenyl  
Concen: 0.334 ng  
RT: 13.18 min Scan# 1021  
Delta R.T. 0.03 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

Instrument :  
BNA\_E  
ClientSampleId :  
PB104239BSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.7  | 29.9  | 44.9  |
| 170     | 25.3  | 21.8  | 32.8  |

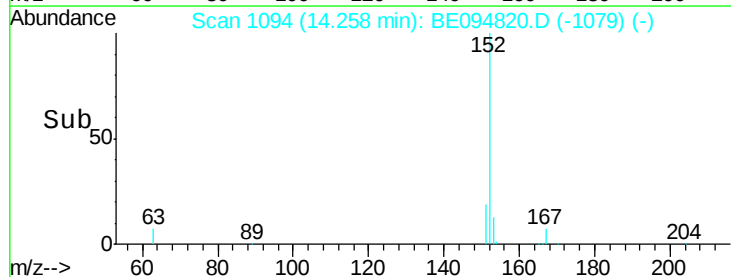
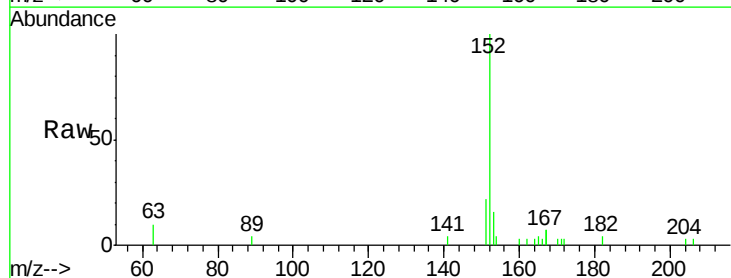
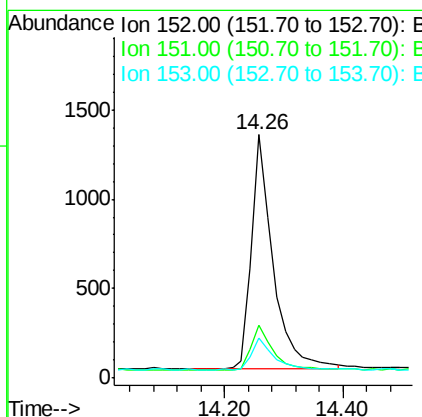
Manual Integrations  
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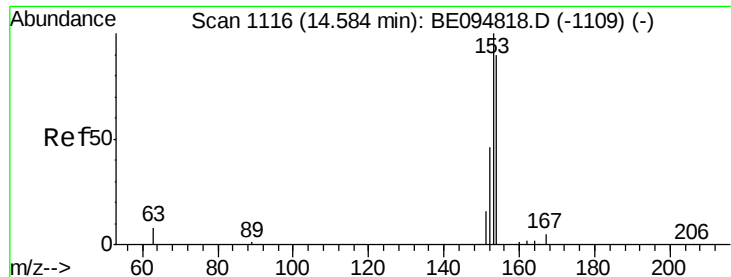
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#16  
Acenaphthylene  
Concen: 0.293 ng  
RT: 14.26 min Scan# 1094  
Delta R.T. 0.02 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 18.6  | 15.7  | 23.5  |
| 153     | 13.3  | 10.5  | 15.7  |





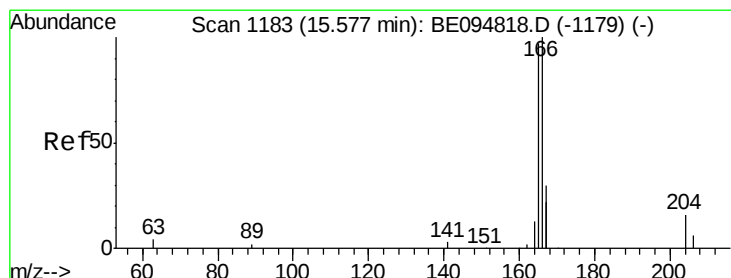
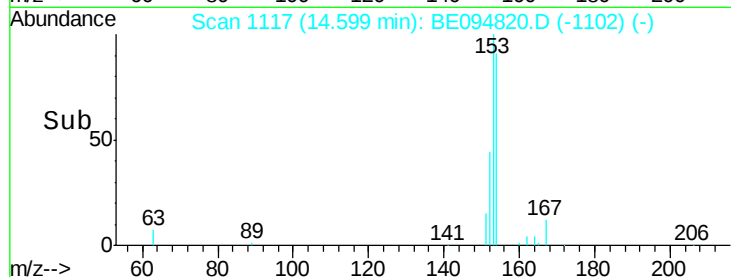
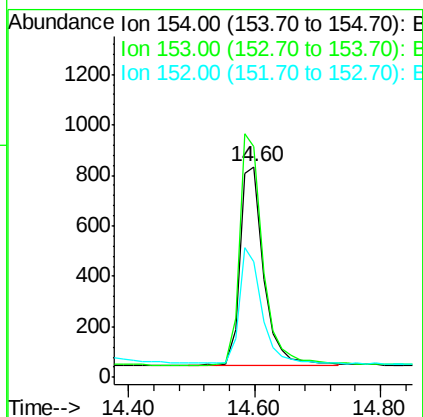
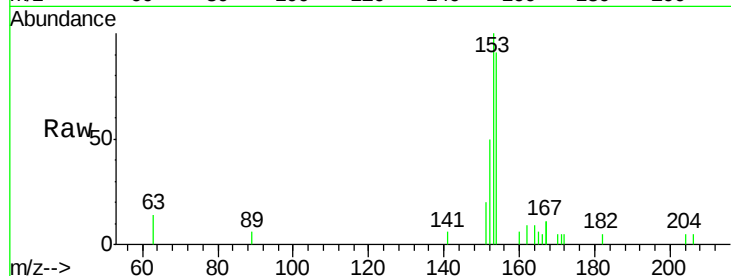
#17  
Acenaphthene  
Concen: 0.288 ng  
RT: 14.60 min Scan# 1117  
Delta R.T. 0.02 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

Instrument :  
BNA\_E  
ClientSampleId :  
PB104239BSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 113.9 | 89.2  | 133.8 |
| 152     | 54.5  | 42.0  | 63.0  |

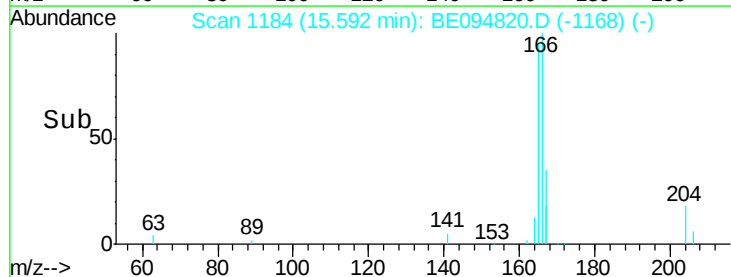
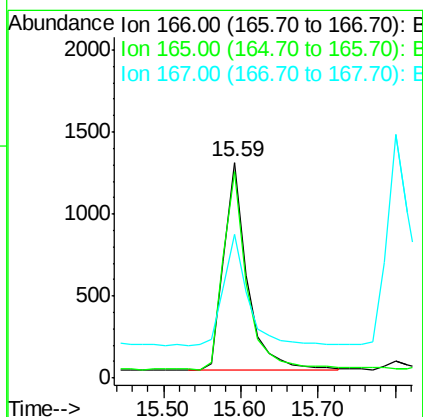
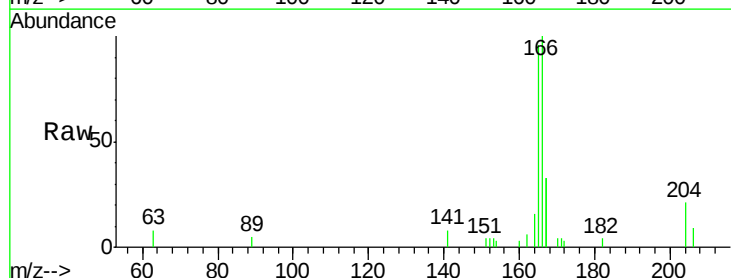
Manual Integrations  
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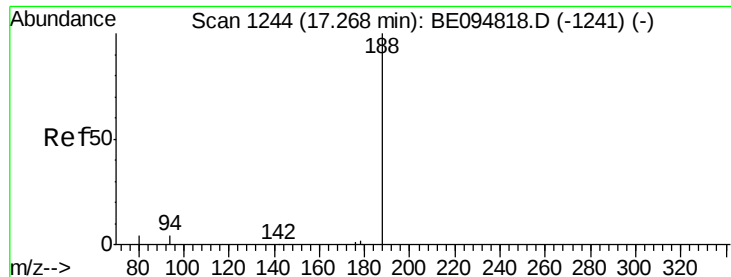
SOHIL  
11/16/2017 6:31:52 PM



#18  
Fluorene  
Concen: 0.289 ng  
RT: 15.59 min Scan# 1184  
Delta R.T. 0.03 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 96.3  | 77.8  | 116.6 |
| 167     | 55.0  | 42.4  | 63.6  |





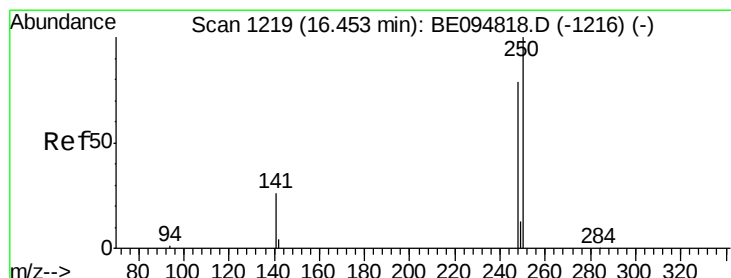
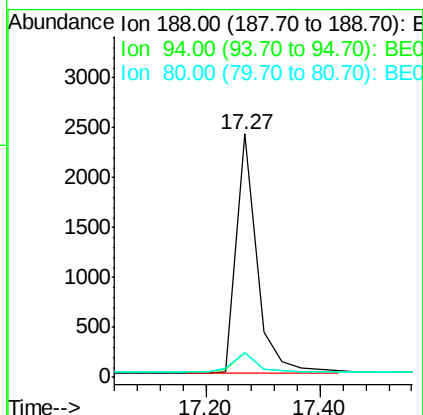
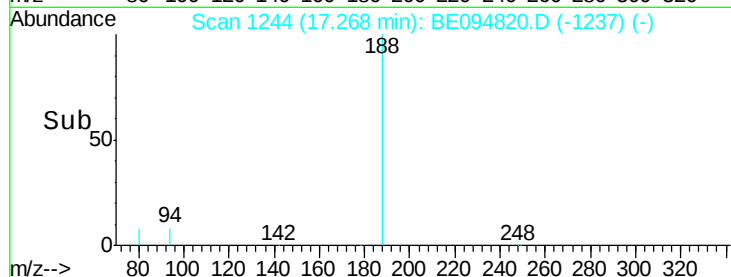
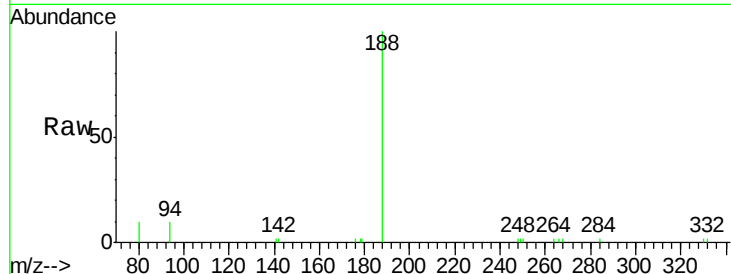
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.27 min Scan# 1244  
Delta R.T. 0.03 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

Instrument :  
BNA\_E  
ClientSampleId :  
PB104239BSD

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 9.9   | 3.9        | 5.9#       |
| 80      | 10.3  | 3.6        | 5.4#       |

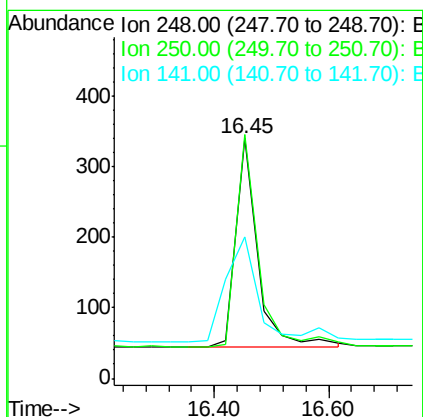
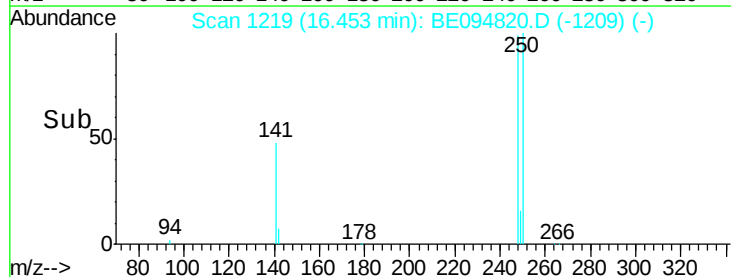
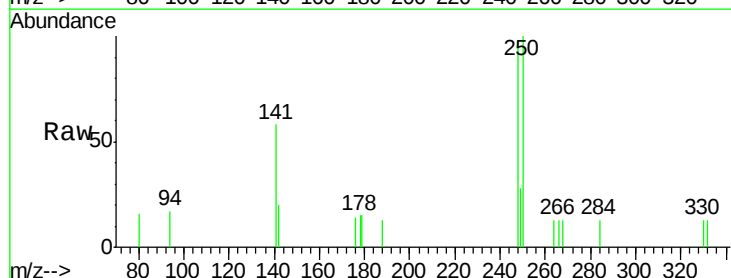
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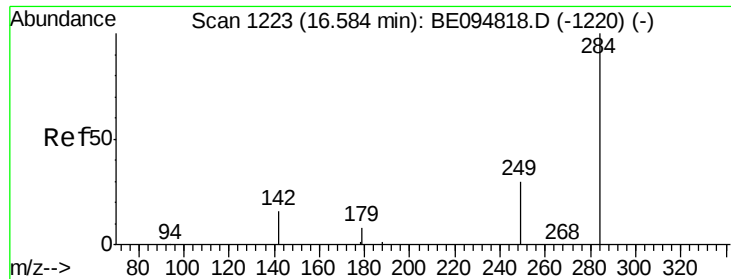
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#20  
4-Bromophenyl-phenylether  
Concen: 0.237 ng  
RT: 16.45 min Scan# 1219  
Delta R.T. 0.03 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 248     | 100   |            |            |
| 250     | 101.8 | 62.7       | 94.1#      |
| 141     | 59.0  | 48.2       | 72.2       |





#21

Hexachlorobenzene

Concen: 0.247 ng

RT: 16.58 min Scan# 1223

Delta R.T. 0.00 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

Instrument :

BNA\_E

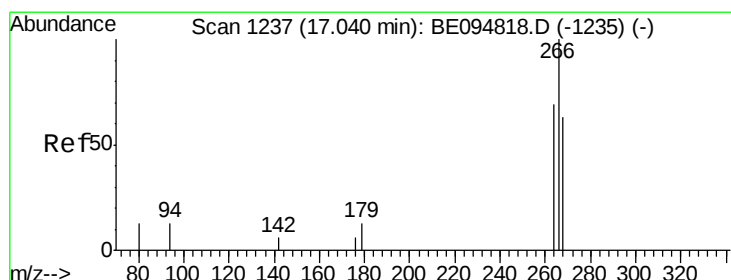
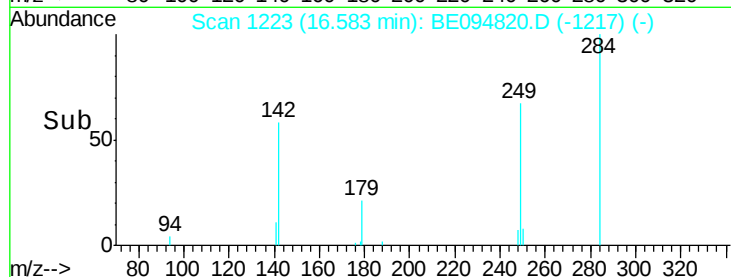
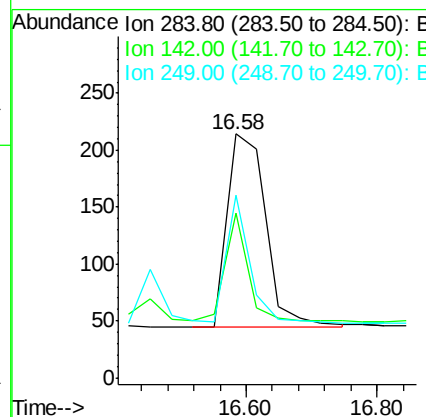
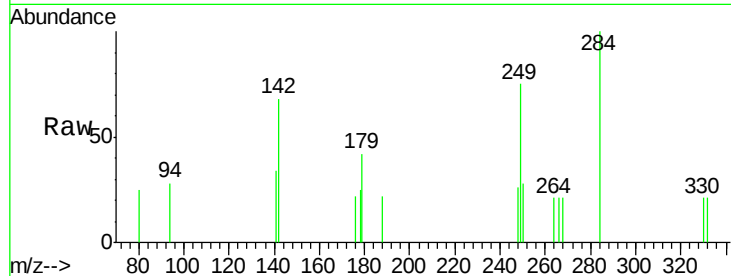
ClientSampled :

PB104239BSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 284   | Resp: | 696   |
| Ion Ratio | Lower | Upper |       |
| 284       | 100   |       |       |
| 142       | 34.3  | 22.1  | 33.1# |
| 249       | 40.5  | 34.8  | 52.2  |

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#22

Pentachlorophenol

Concen: 0.678 ng m

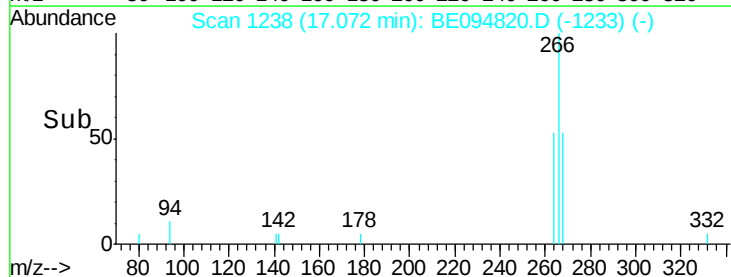
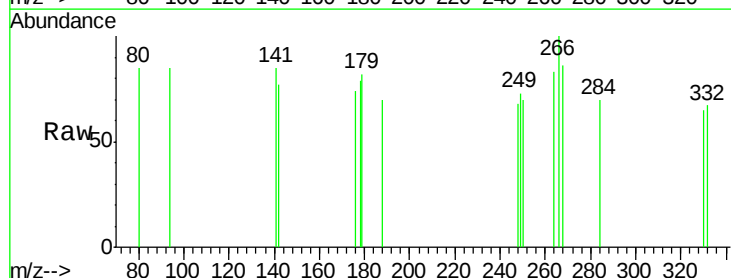
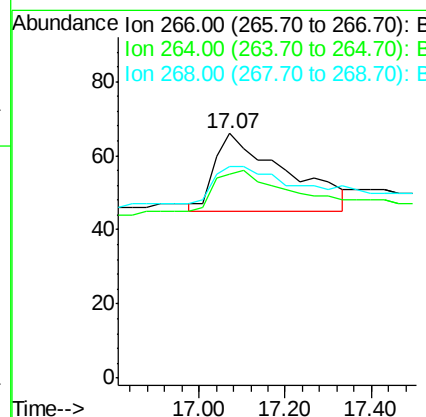
RT: 17.07 min Scan# 1238

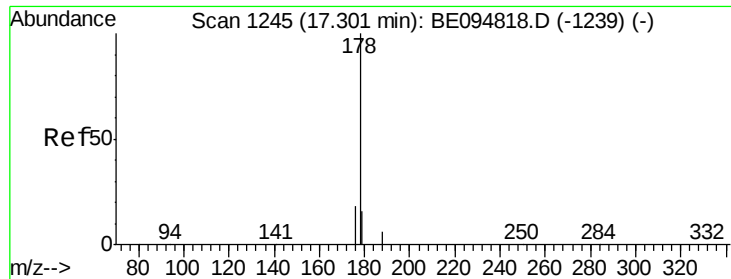
Delta R.T. 0.07 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 244   |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 83.3  | 72.5  | 108.7 |
| 268       | 86.4  | 73.8  | 110.6 |





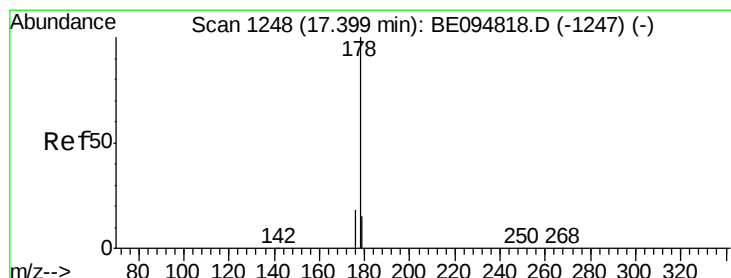
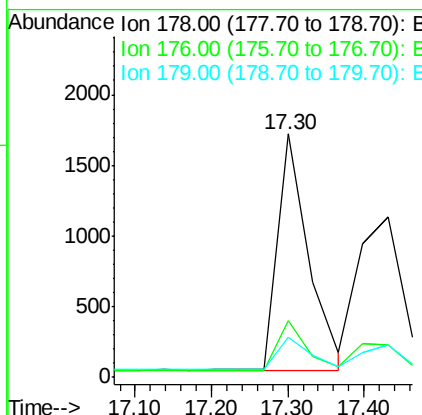
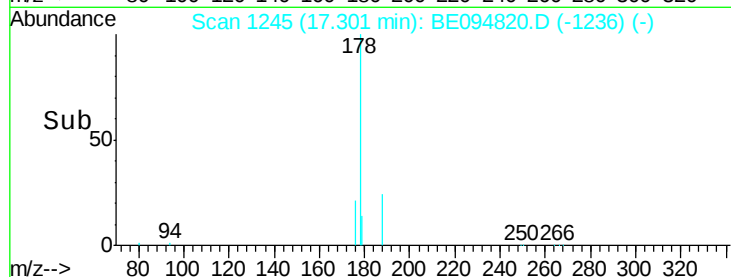
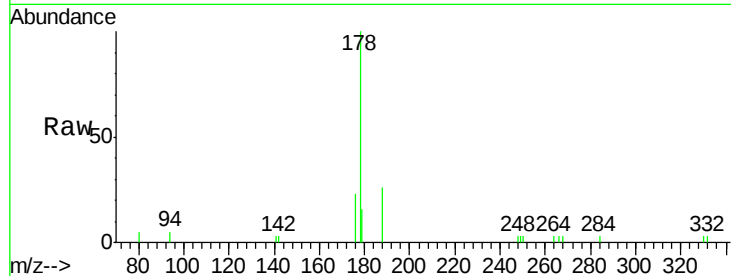
#23  
Phenanthrene  
Concen: 0.283 ng  
RT: 17.30 min Scan# 1245  
Delta R.T. 0.00 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

Instrument :  
BNA\_E  
ClientSampleId :  
PB104239BSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.9  | 15.1  | 22.7  |
| 179     | 14.7  | 11.8  | 17.6  |

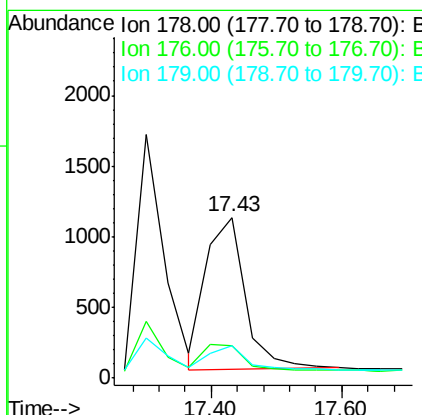
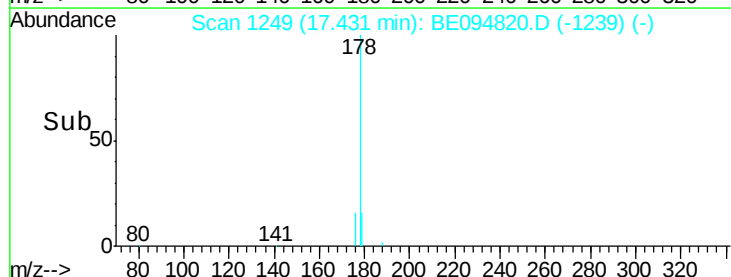
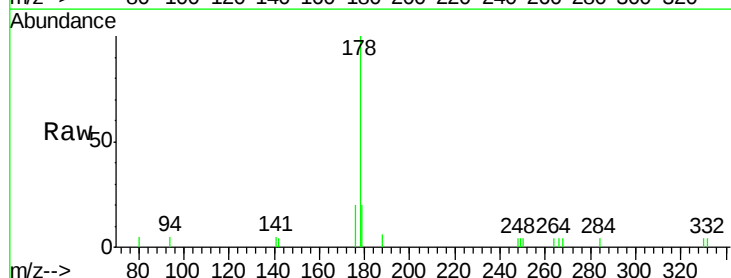
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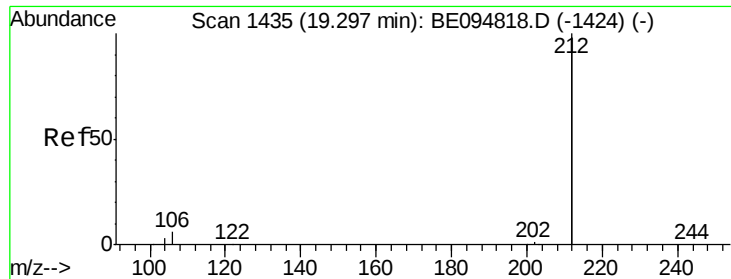
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#24  
Anthracene  
Concen: 0.258 ng  
RT: 17.43 min Scan# 1249  
Delta R.T. 0.03 min  
Lab File: BE094820.D  
Acq: 15 Nov 2017 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 0.0   | 12.8  | 19.2# |
| 179     | 15.3  | 13.0  | 19.6  |





#25

Fluoranthene-d10

Concen: 0.286 ng

RT: 19.30 min Scan# 1436

Delta R.T. 0.02 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

Instrument :

BNA\_E

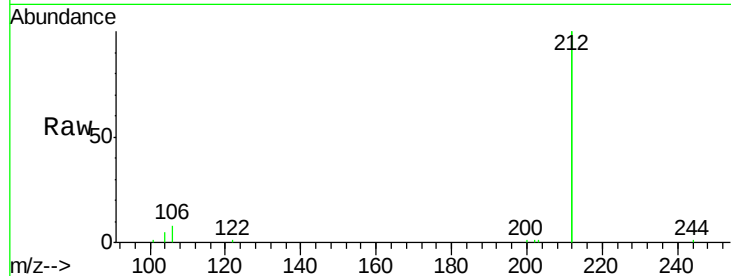
ClientSampleId :

PB104239BSD

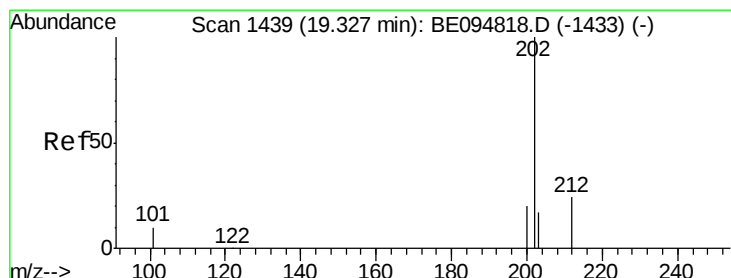
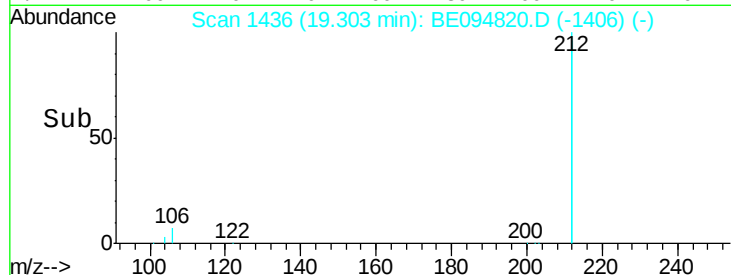
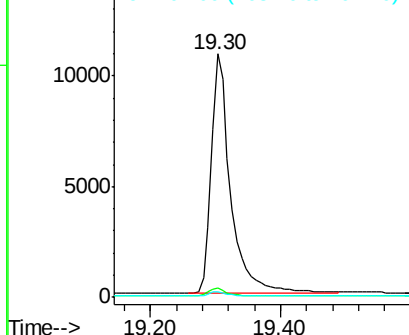
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 212   | Resp: | 22384 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 3.3   | 2.8   | 4.2   |
| 104       | 1.8   | 1.6   | 2.4   |

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Abundance Ion 212.00 (211.70 to 212.70): E  
Ion 106.00 (105.70 to 106.70): E  
Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.247 ng

RT: 19.33 min Scan# 1440

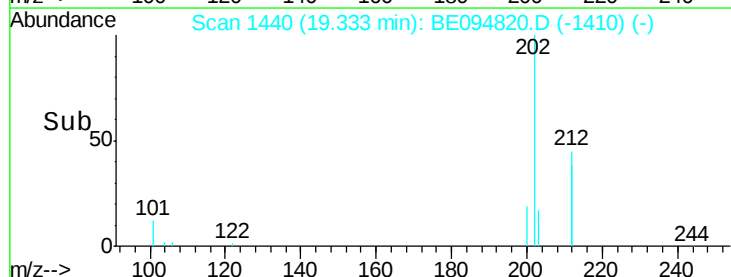
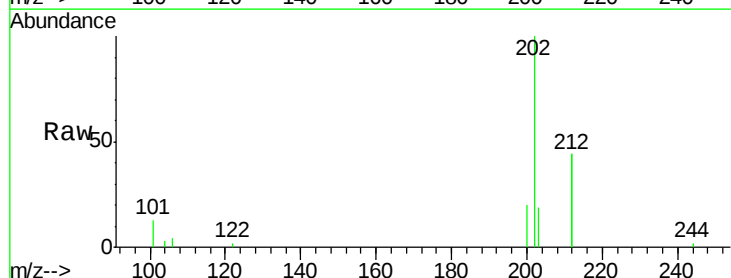
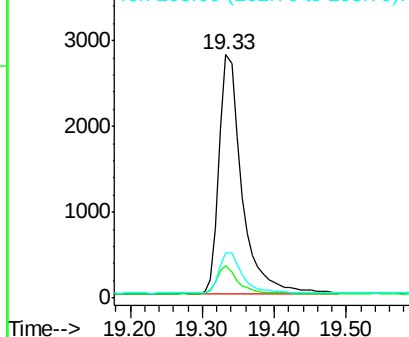
Delta R.T. 0.02 min

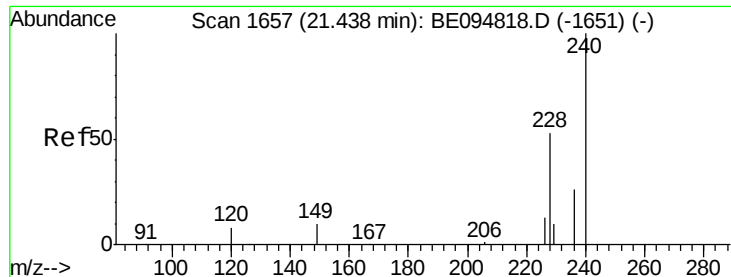
Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 6085 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 10.9  | 9.8   | 14.8 |
| 203       | 17.4  | 13.7  | 20.5 |

Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.44 min Scan# 1657

Delta R.T. 0.01 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

Instrument :

BNA\_E

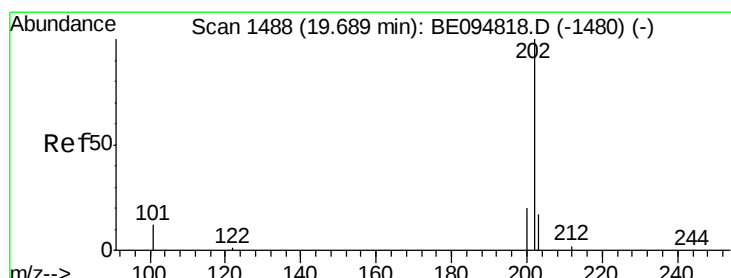
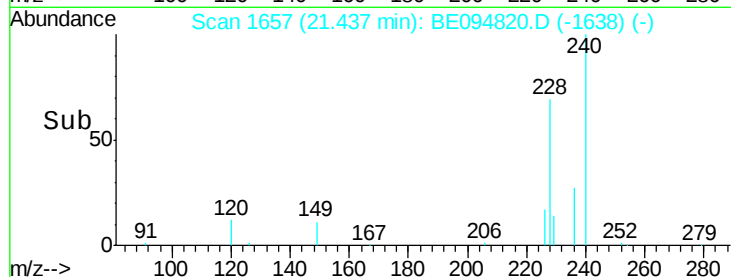
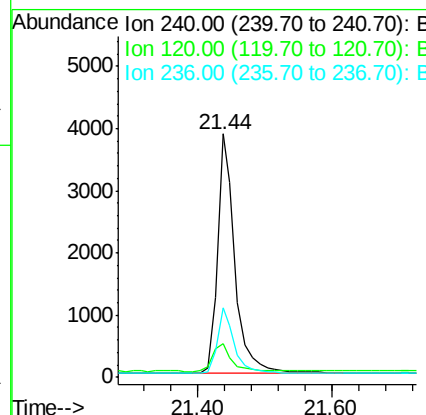
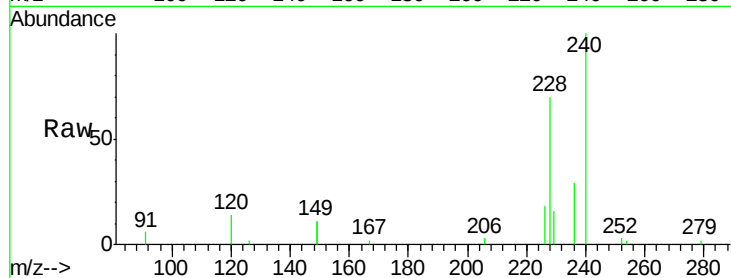
ClientSampleId :

PB104239BSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 228     | 14.1  | 5.5   | 8.3#  |
| 236     | 28.6  | 20.7  | 31.1  |

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#28

Pyrene

Concen: 0.259 ng

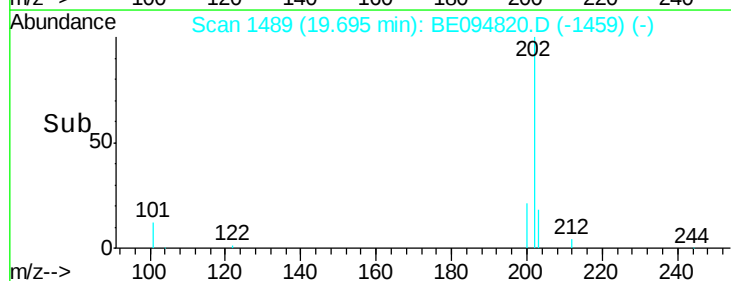
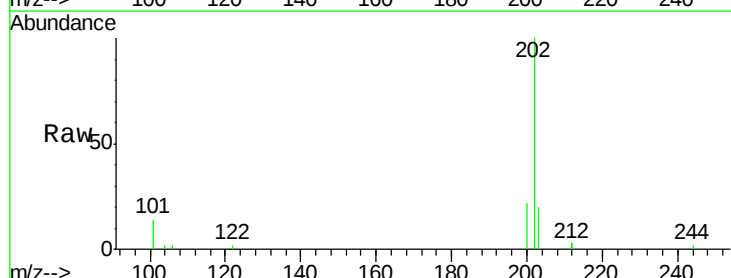
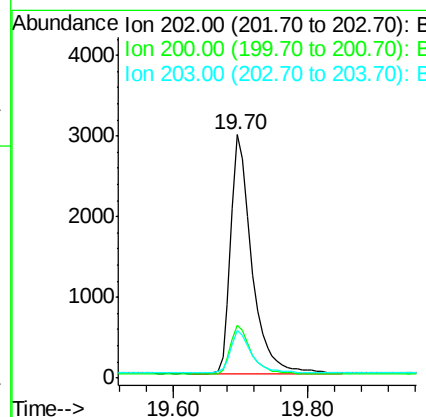
RT: 19.70 min Scan# 1489

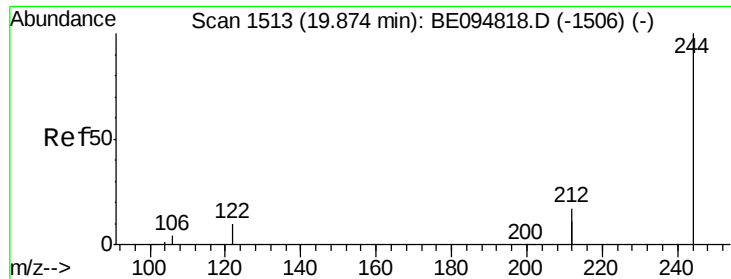
Delta R.T. 0.02 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.6  | 16.6  | 25.0  |
| 203     | 18.4  | 13.8  | 20.8  |





#29

Terphenyl-d14

Concen: 0.290 ng

RT: 19.88 min Scan# 1514

Delta R.T. 0.01 min

Lab File: BE094820.D

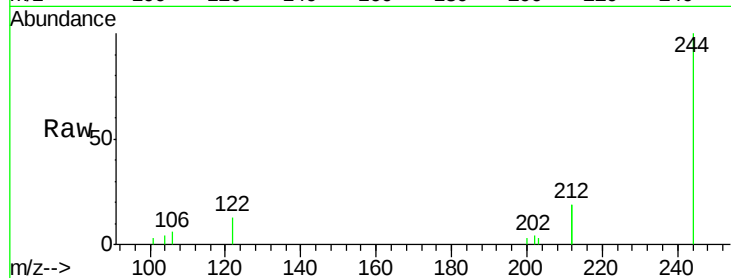
Acq: 15 Nov 2017 18:24

Instrument :

BNA\_E

ClientSampleId :

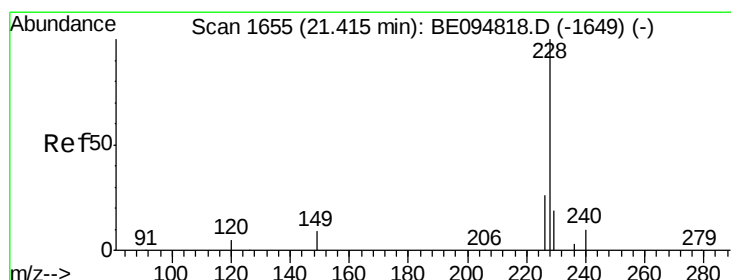
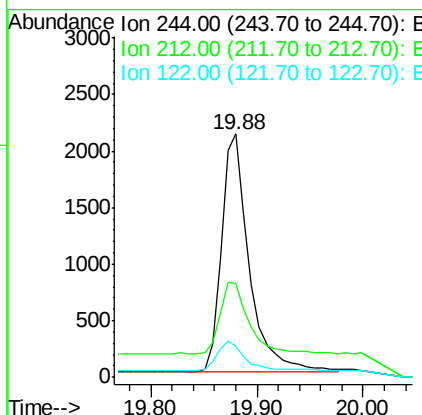
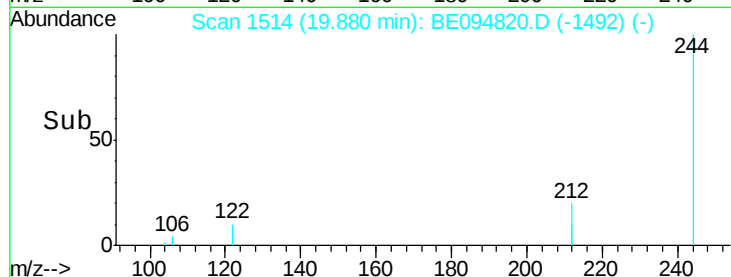
PB104239BSD



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 3864  |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 38.7  | 25.4  | 38.0# |
| 122       | 12.8  | 8.1   | 12.1# |

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#30

Benzo(a)anthracene

Concen: 0.329 ng

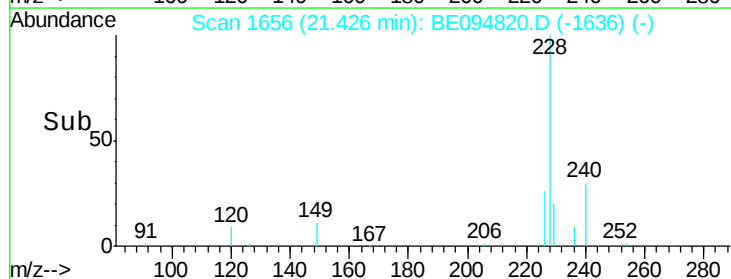
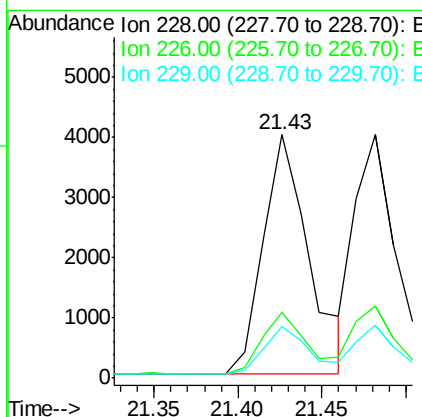
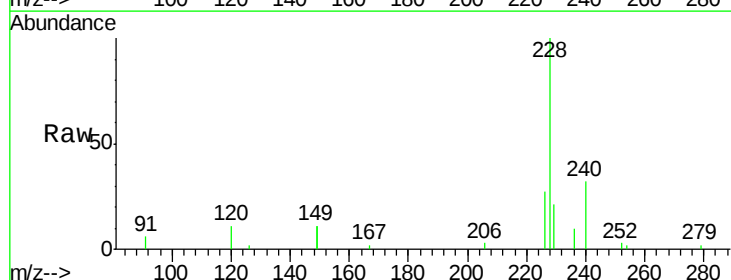
RT: 21.43 min Scan# 1656

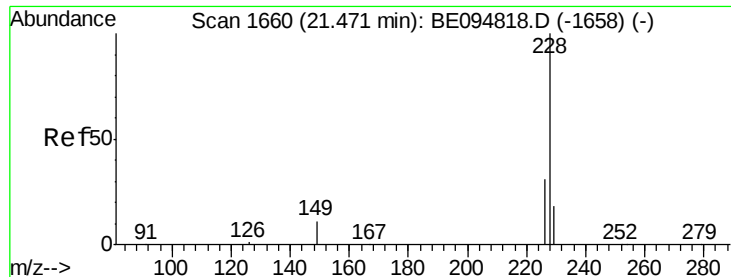
Delta R.T. 0.02 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 7552  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 27.2  | 40.0  | 60.0# |
| 229       | 21.2  | 40.0  | 60.0# |





#31

Chrysene

Concen: 0.312 ng

RT: 21.48 min Scan# 1661

Delta R.T. 0.02 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

Instrument :

BNA\_E

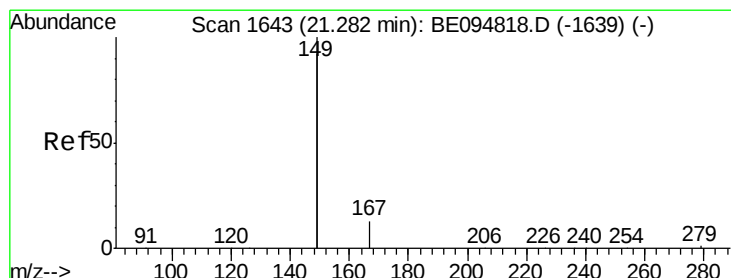
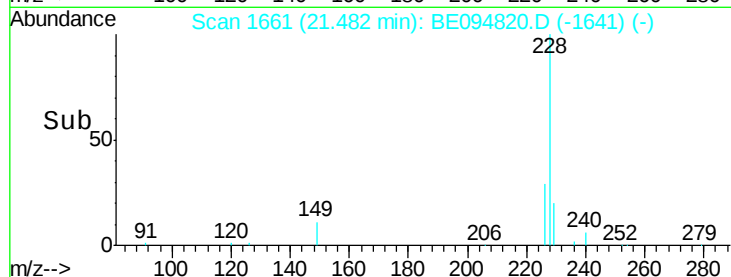
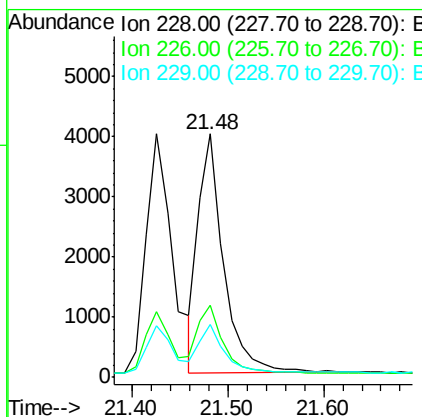
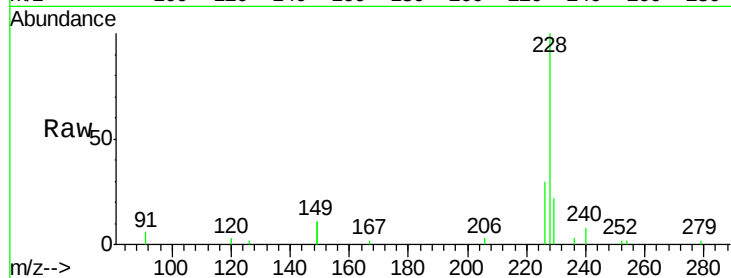
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 7280  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.7  | 40.0  | 60.0# |
| 229       | 21.5  | 40.0  | 60.0# |

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.304 ng

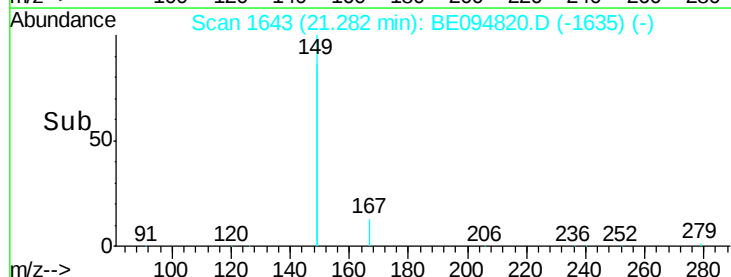
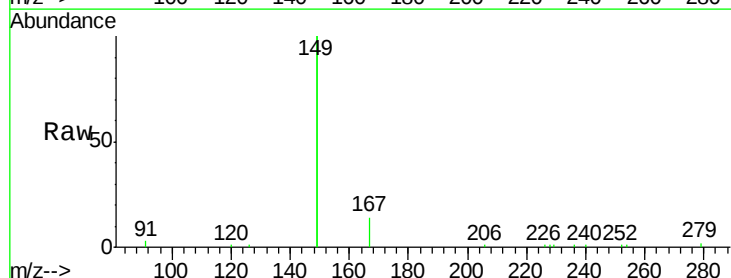
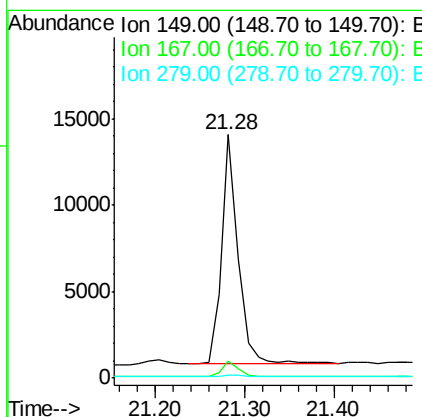
RT: 21.28 min Scan# 1643

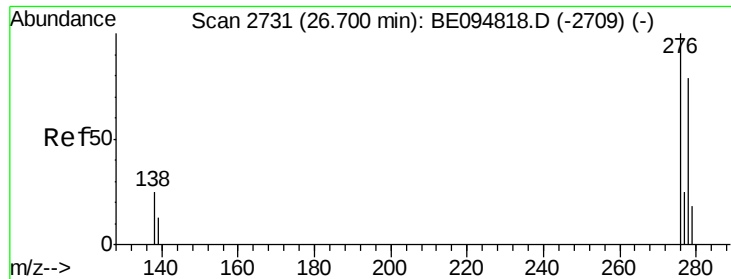
Delta R.T. -0.01 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 17117 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 7.2   | 5.4   | 8.0   |
| 279       | 1.0   | 0.7   | 1.1   |





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.373 ng

RT: 26.71 min Scan# 2734

Delta R.T. 0.08 min

Lab File: BE094820.D

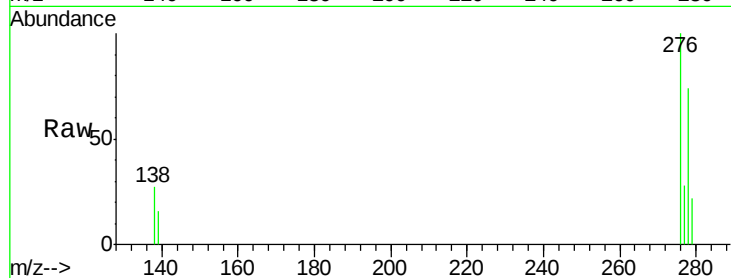
Acq: 15 Nov 2017 18:24

Instrument :

BNA\_E

ClientSampleId :

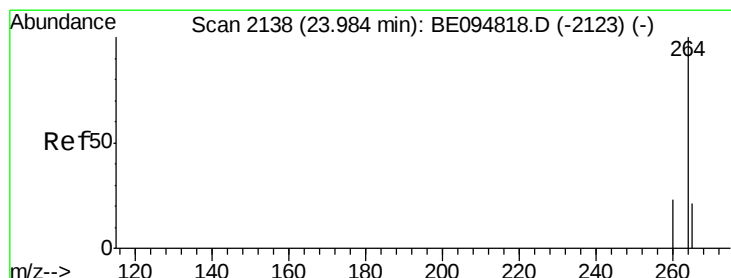
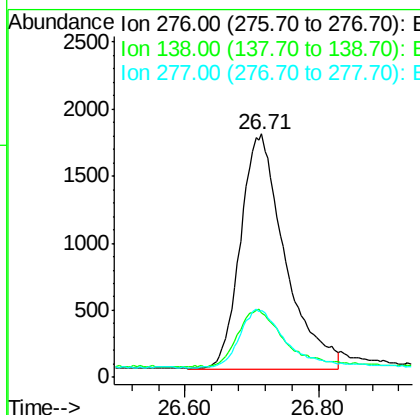
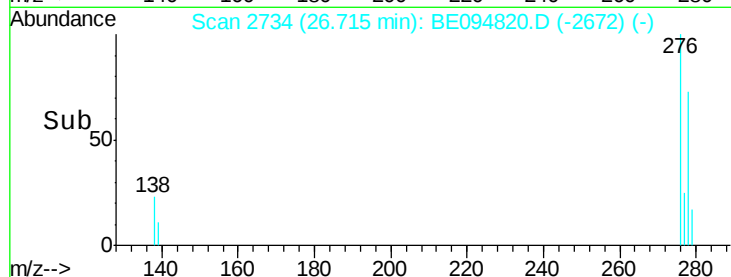
PB104239BSD



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 8050 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 24.9  | 22.5  | 33.7 |
| 277       | 25.3  | 19.9  | 29.9 |

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#34

Perylene-d12

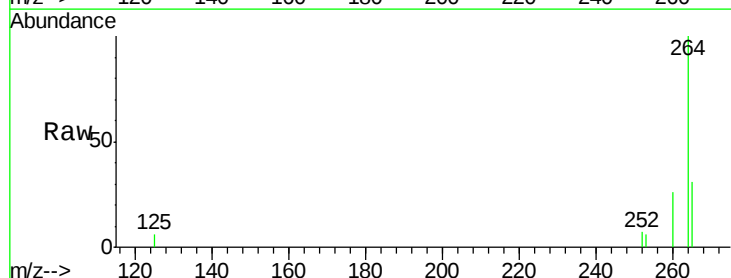
Concen: 0.400 ng

RT: 23.99 min Scan# 2139

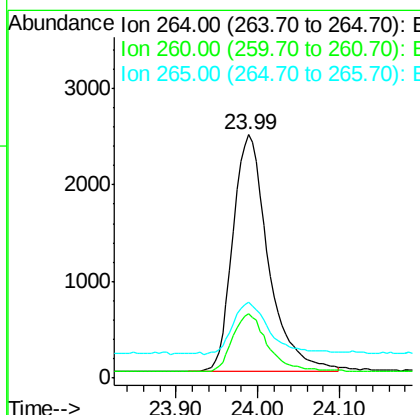
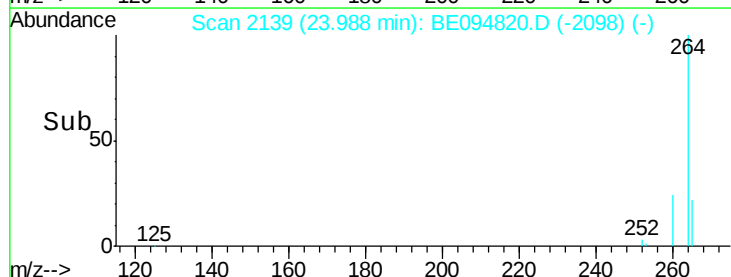
Delta R.T. 0.04 min

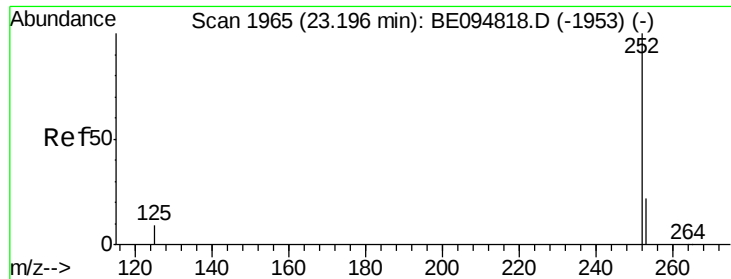
Lab File: BE094820.D

Acq: 15 Nov 2017 18:24



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 264   | Resp: | 7364 |
| Ion Ratio | Lower | Upper |      |
| 264       | 100   |       |      |
| 260       | 26.3  | 20.5  | 30.7 |
| 265       | 31.3  | 22.8  | 34.2 |





#35

Benzo(b)fluoranthene

Concen: 0.305 ng

RT: 23.21 min Scan# 1967

Delta R.T. 0.03 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

Instrument :

BNA\_E

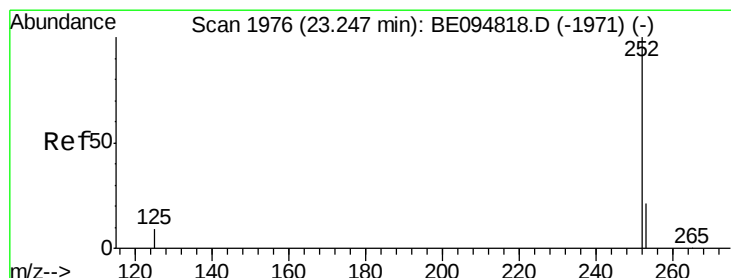
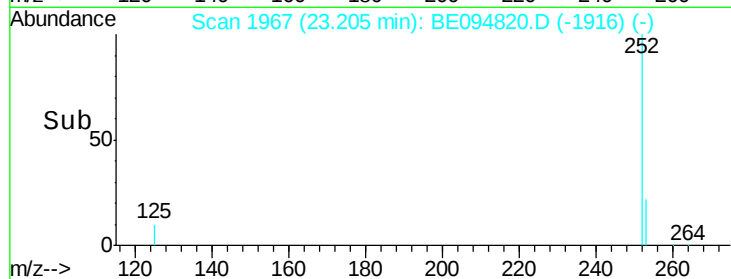
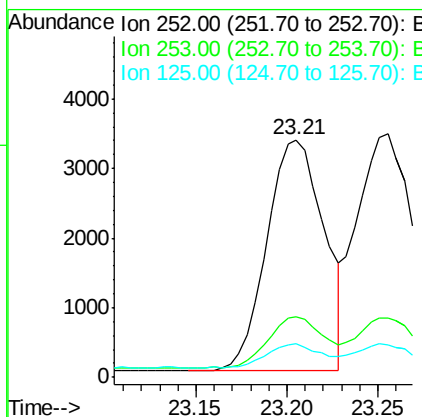
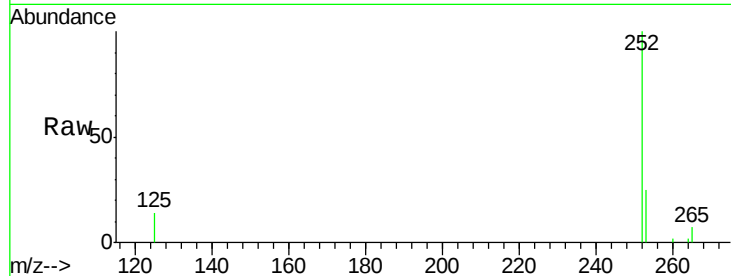
ClientSampleId :

PB104239BSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 7277  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.3  | 48.0  | 72.0# |
| 125       | 14.3  | 56.0  | 84.0# |

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#36

Benzo(k)fluoranthene

Concen: 0.332 ng

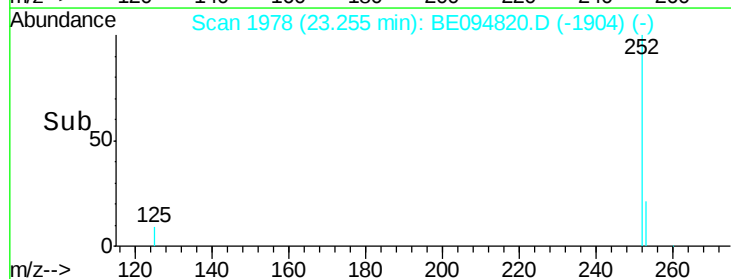
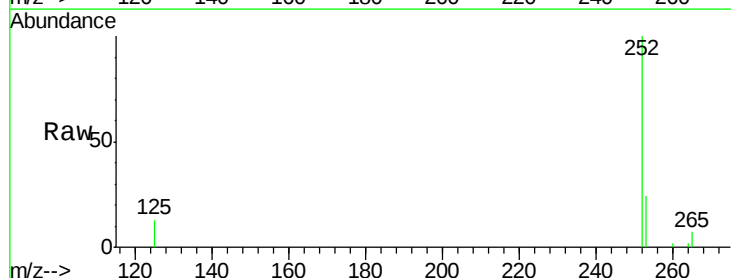
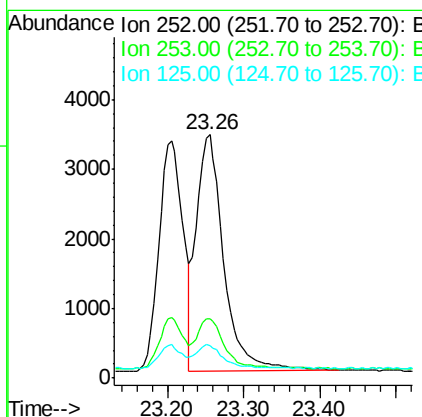
RT: 23.26 min Scan# 1978

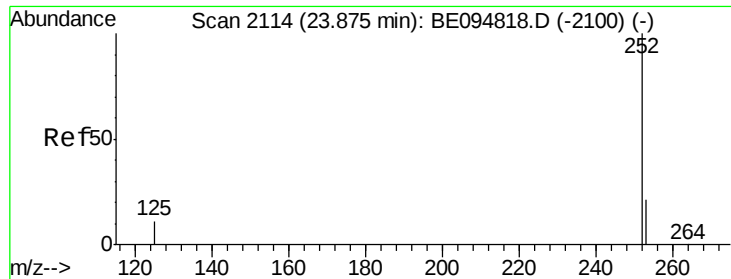
Delta R.T. 0.04 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 8423  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.2  | 48.0  | 72.0# |
| 125       | 13.1  | 56.0  | 84.0# |





#37

Benzo(a)pyrene

Concen: 0.331 ng

RT: 23.88 min Scan# 2116

Delta R.T. 0.05 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

Instrument :

BNA\_E

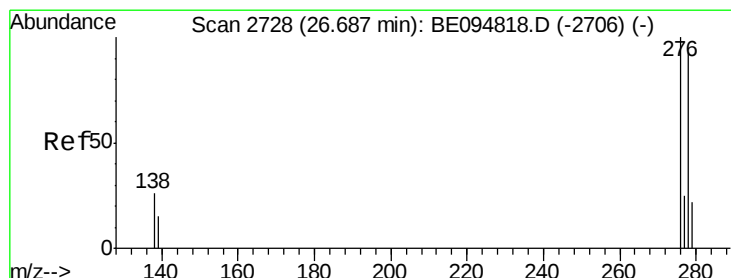
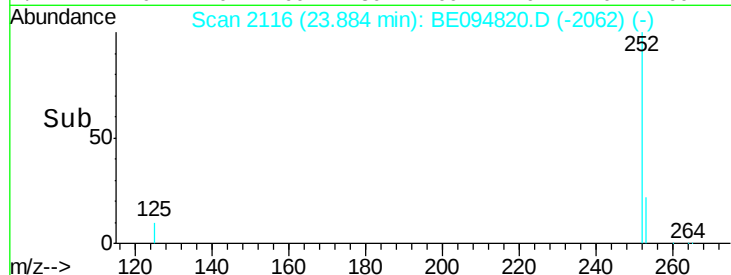
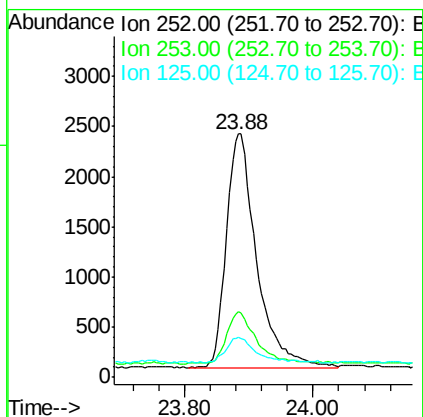
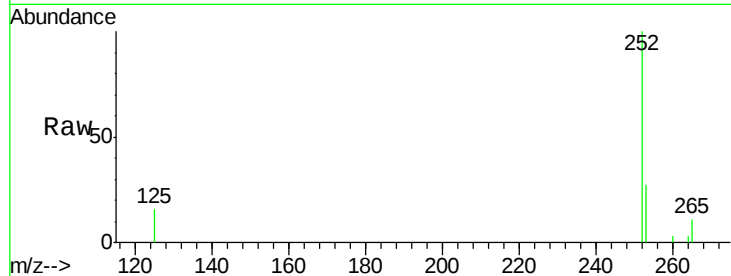
ClientSampleId :

PB104239BSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 7660   |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 26.9  | 52.0  | 78.0#  |
| 125       | 16.2  | 68.0  | 102.0# |

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#38

Dibenzo(a,h)anthracene

Concen: 0.333 ng

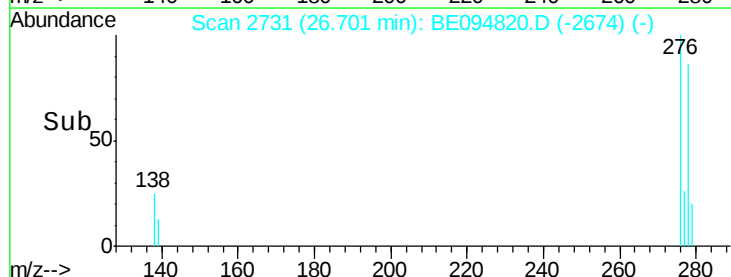
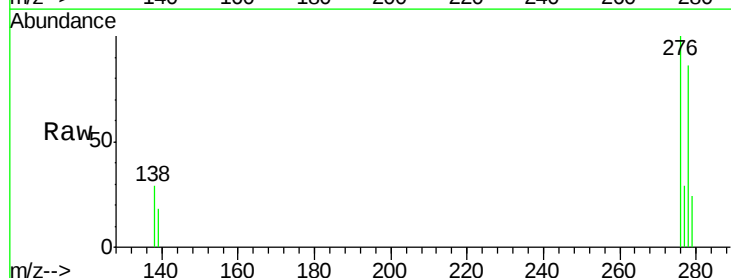
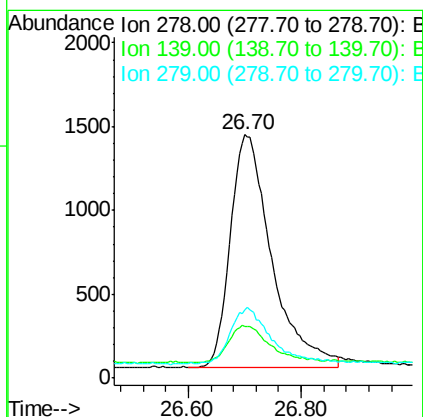
RT: 26.70 min Scan# 2731

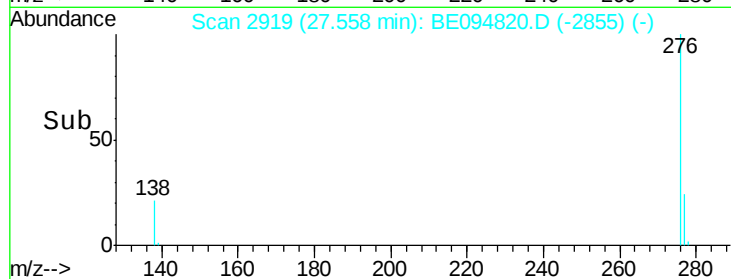
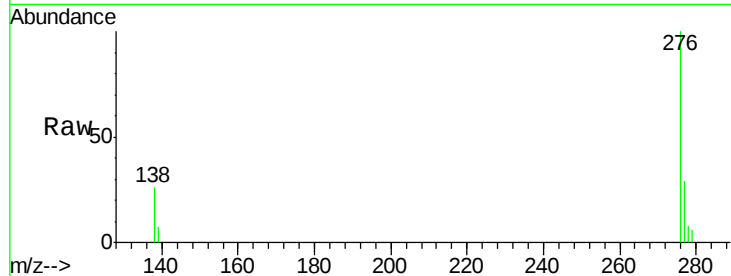
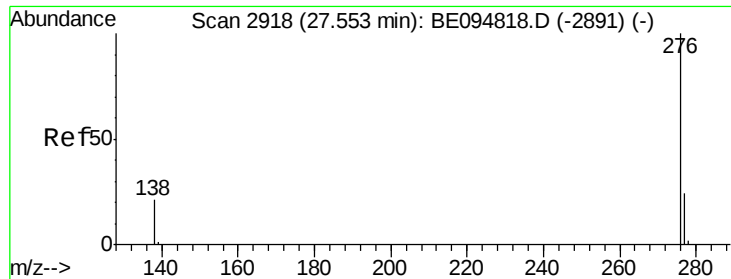
Delta R.T. 0.06 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 6919  |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 21.2  | 56.0  | 84.0# |
| 279       | 27.8  | 52.0  | 78.0# |





#39

Benzo(g,h,i)perylene

Concen: 0.352 ng

RT: 27.56 min Scan# 2919

Delta R.T. 0.09 min

Lab File: BE094820.D

Acq: 15 Nov 2017 18:24

Instrument :

BNA\_E

ClientSampleId :

PB104239BSD

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 276 | 100  |       |       |       |
| 277 | 28.8 | 52.0  | 78.0  |       |
| 138 | 26.2 | 44.0  | 66.0  |       |

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