

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE092118\  
 Data File : BE097613.D  
 Acq On : 21 Sep 2018 16:02  
 Operator : SJ/JU  
 Sample : PB112956BS  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB112956BS

Manual Integrations  
 APPROVED

Sohil  
 9/24/2018 8:29:46 AM

Quant Time: Sep 22 04:29:00 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE091918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 20 10:54:43 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 1071     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.12 | 136  | 4578     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.00 | 164  | 2245     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.75 | 188  | 5274     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 20.97 | 240  | 7262     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.20 | 264  | 7597     | 0.40 | ng    | 0.00     |

## System Monitoring Compounds

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| 4) 2-Fluorophenol           | 5.06  | 112 | 1230  | 0.38 | ng | 0.01 |
| 5) Phenol-d6                | 6.62  | 99  | 1645m | 0.40 | ng | 0.01 |
| 8) Nitrobenzene-d5          | 8.53  | 82  | 1330  | 0.38 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.72 | 152 | 3342  | 0.53 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.53 | 330 | 215   | 0.29 | ng | 0.01 |
| 15) 2-Fluorobiphenyl        | 12.62 | 172 | 3692  | 0.47 | ng | 0.00 |
| 25) Fluoranthene-d10        | 18.80 | 212 | 25292 | 0.37 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.42 | 244 | 4551  | 0.34 | ng | 0.00 |

## Target Compounds

|                                |       |     |       |       |    | Qvalue |
|--------------------------------|-------|-----|-------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.09  | 88  | 589   | 0.313 | ng | # 74   |
| 3) n-Nitrosodimethylamine      | 3.38  | 42  | 552   | 0.357 | ng | # 86   |
| 6) bis(2-Chloroethyl)ether     | 6.82  | 93  | 1267  | 0.333 | ng | 82     |
| 9) Naphthalene                 | 10.17 | 128 | 16947 | 0.411 | ng | 99     |
| 10) Hexachlorobutadiene        | 10.46 | 225 | 712   | 0.375 | ng | 96     |
| 12) 2-Methylnaphthalene        | 11.80 | 142 | 2507  | 0.390 | ng | 100    |
| 16) Acenaphthylene             | 13.71 | 152 | 3385  | 0.381 | ng | 99     |
| 17) Acenaphthene               | 14.06 | 154 | 2298  | 0.386 | ng | 95     |
| 18) Fluorene                   | 15.06 | 166 | 2921  | 0.377 | ng | # 79   |
| 20) 4-Bromophenyl-phenylether  | 15.96 | 248 | 901   | 0.379 | ng | # 80   |
| 21) Hexachlorobenzene          | 16.07 | 284 | 1071  | 0.410 | ng | # 84   |
| 22) Pentachlorophenol          | 16.45 | 266 | 347   | 0.426 | ng | # 81   |
| 23) Phenanthrene               | 16.80 | 178 | 4924  | 0.393 | ng | 98     |
| 24) Anthracene                 | 16.89 | 178 | 4246  | 0.384 | ng | 96     |
| 26) Fluoranthene               | 18.83 | 202 | 6129  | 0.353 | ng | 98     |
| 28) Pyrene                     | 19.20 | 202 | 6229  | 0.377 | ng | 99     |
| 30) Benzo(a)anthracene         | 20.96 | 228 | 7214  | 0.395 | ng | 96     |
| 31) Chrysene                   | 21.00 | 228 | 8067  | 0.411 | ng | 100    |
| 32) Bis(2-ethylhexyl)phthalate | 20.89 | 149 | 8088  | 0.274 | ng | # 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.50 | 276 | 10438 | 0.442 | ng | # 93   |
| 35) Benzo(b)fluoranthene       | 22.53 | 252 | 7931  | 0.407 | ng | # 89   |
| 36) Benzo(k)fluoranthene       | 22.57 | 252 | 9161  | 0.412 | ng | 94     |
| 37) Benzo(a)pyrene             | 23.11 | 252 | 8053  | 0.425 | ng | # 91   |
| 38) Dibenzo(a,h)anthracene     | 25.52 | 278 | 8618  | 0.422 | ng | # 94   |
| 39) Benzo(g,h,i)perylene       | 26.21 | 276 | 8603  | 0.433 | ng | # 90   |

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

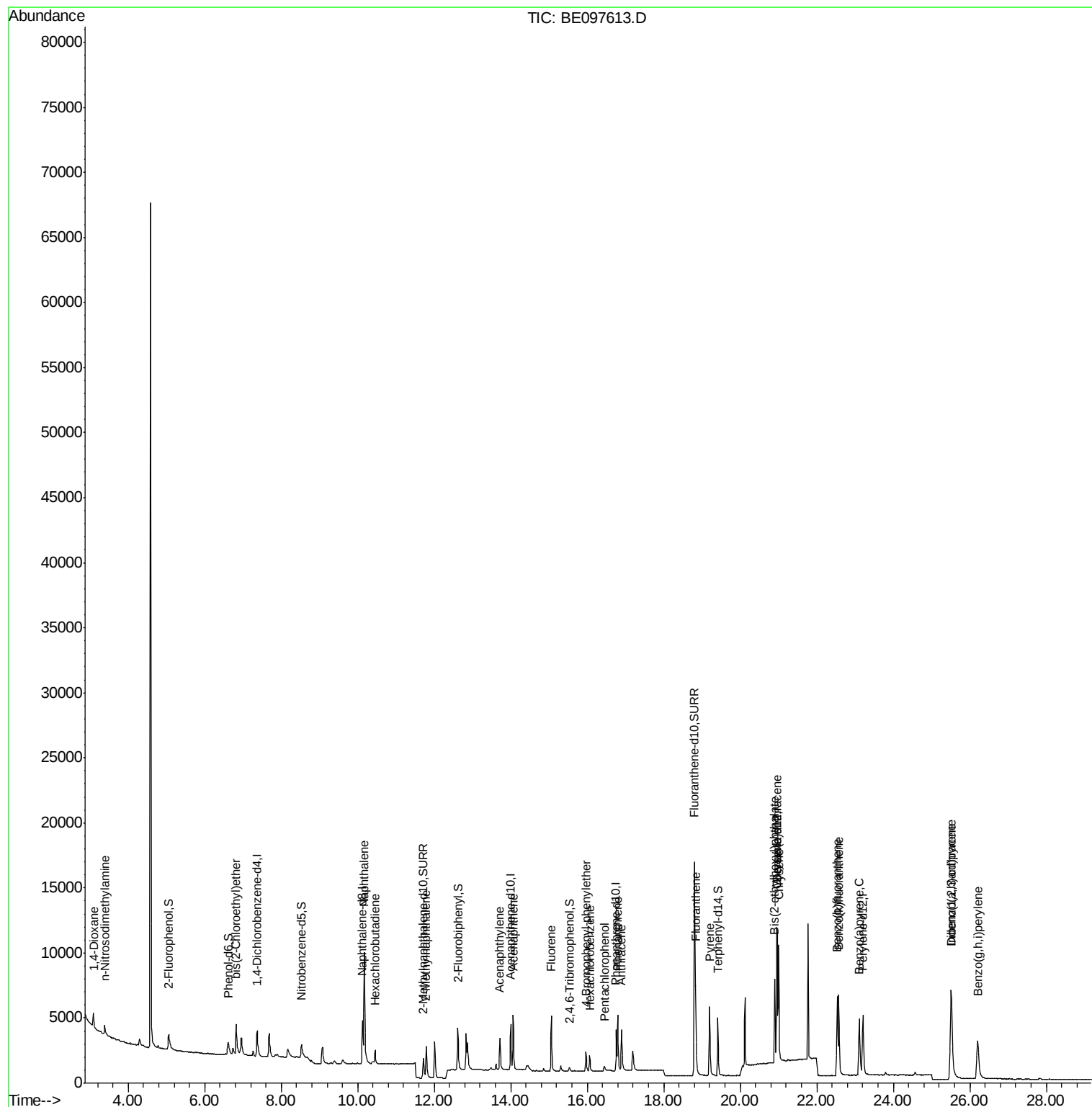
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE092118\  
Data File : BE097613.D  
Acq On : 21 Sep 2018 16:02  
Operator : SJ/JU  
Sample : PB112956BS  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

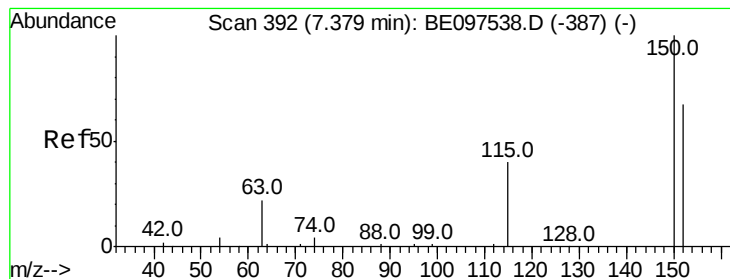
Instrument :  
BNA\_E  
ClientSampleId :  
PB112956BS

Quant Time: Sep 22 04:29:00 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE091918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Sep 20 10:54:43 2018  
Response via : Initial Calibration

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#1

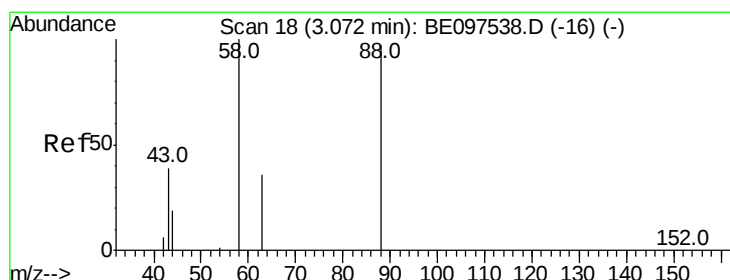
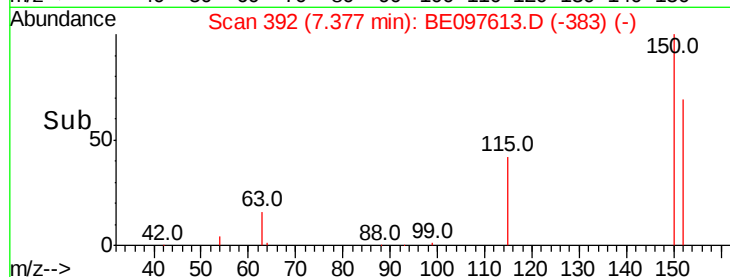
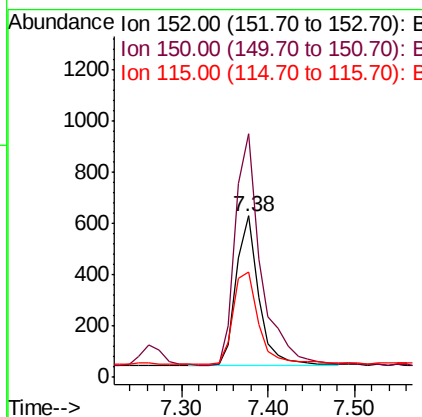
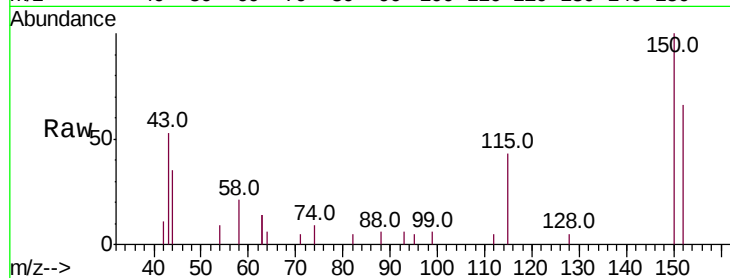
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.38 min Scan# 392  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Instrument :  
BNA\_E  
ClientSampleId :  
PB112956BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.9 | 117.2 | 175.8 |
| 115     | 65.0  | 57.0  | 85.6  |

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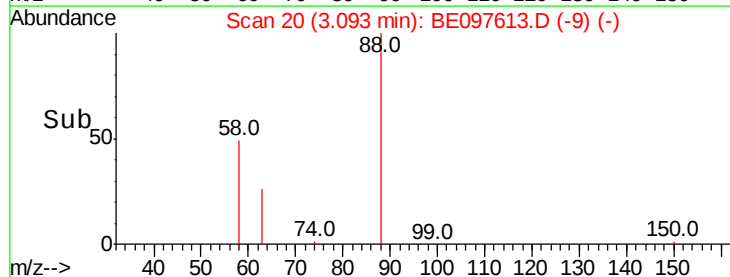
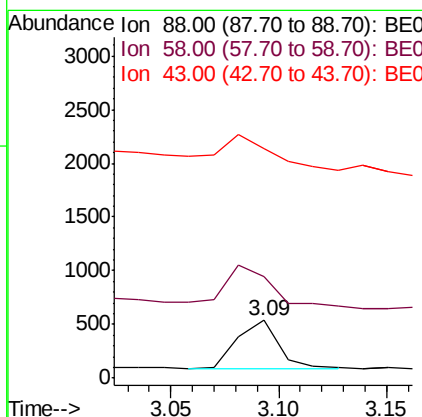
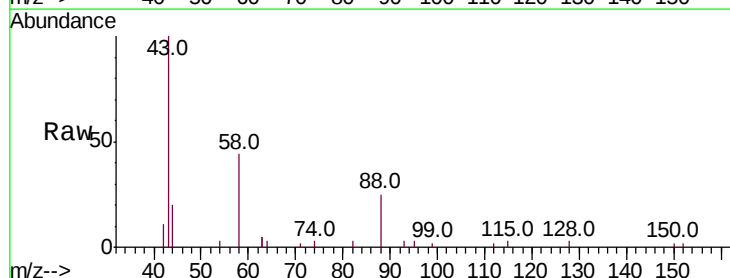
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#2

1,4-Dioxane  
Concen: 0.313 ng  
RT: 3.09 min Scan# 20  
Delta R.T. 0.02 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 85.6  | 63.2  | 94.8  |
| 43      | 89.8  | 41.2  | 61.8# |





#3

n-Nitrosodimethylamine

Concen: 0.357 ng

RT: 3.38 min Scan# 45

Delta R.T. 0.01 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

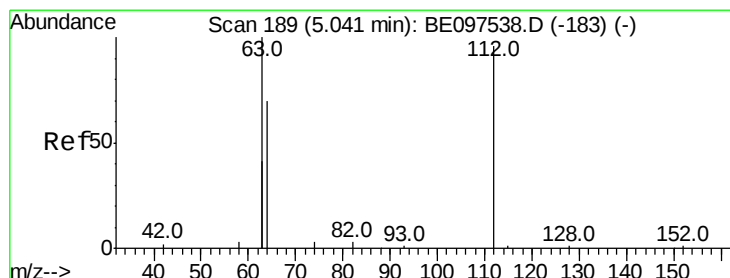
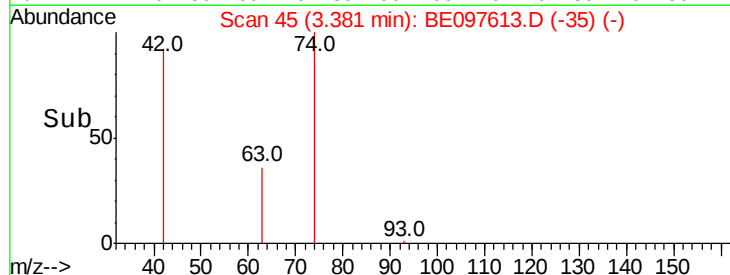
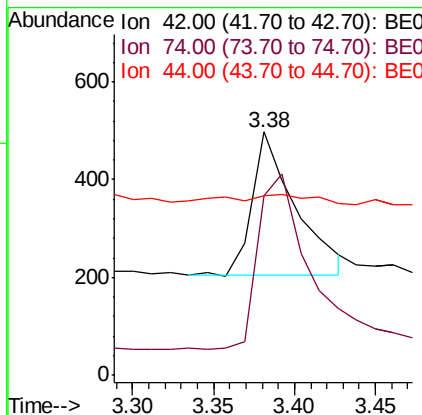
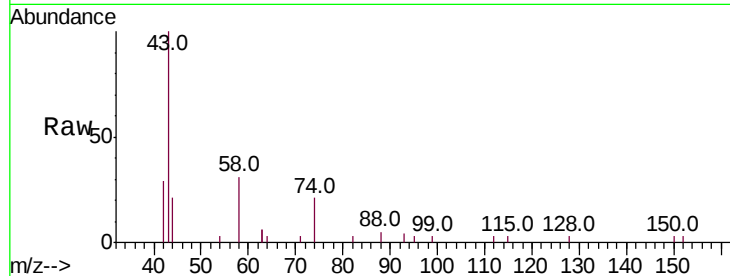
PB112956BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 552   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 136.8 | 96.0  | 144.0 |
| 44       | 11.8  | 12.0  | 18.0# |

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#4

2-Fluorophenol

Concen: 0.383 ng

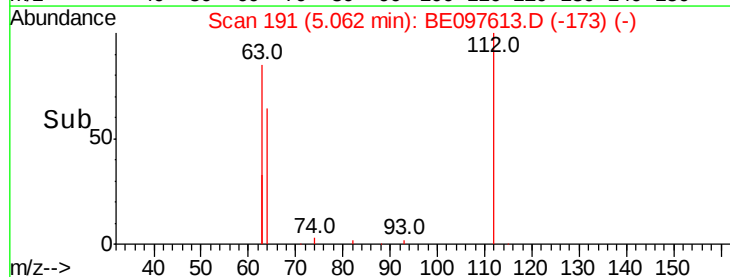
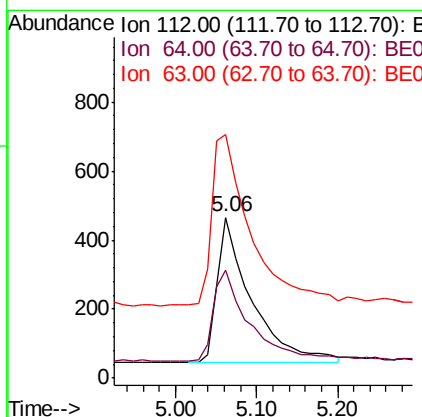
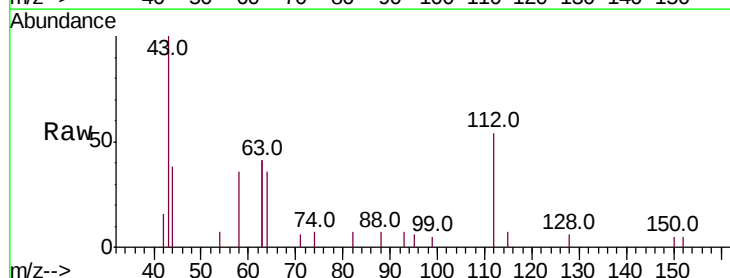
RT: 5.06 min Scan# 191

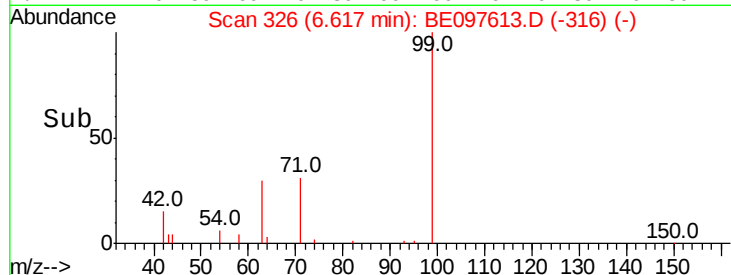
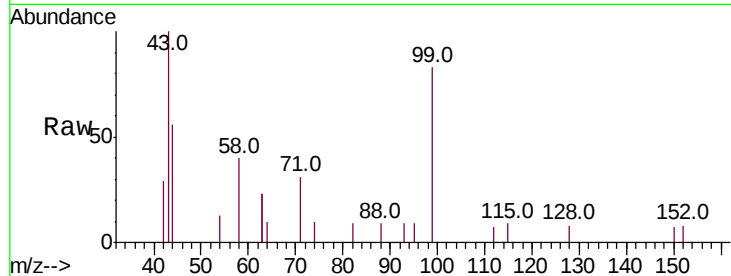
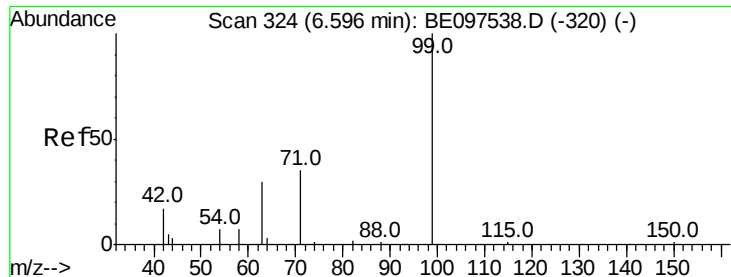
Delta R.T. 0.01 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 1230  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 66.9  | 60.1  | 90.1  |
| 63       | 137.7 | 116.8 | 175.2 |





#5

Phenol-d6

Concen: 0.401 ng/ml

RT: 6.62 min Scan# 326

Delta R.T. 0.01 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 1645  |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 17.9  | 20.2  | 30.2# |
| 71        | 28.6  | 28.4  | 42.6  |

Instrument :

BNA\_E

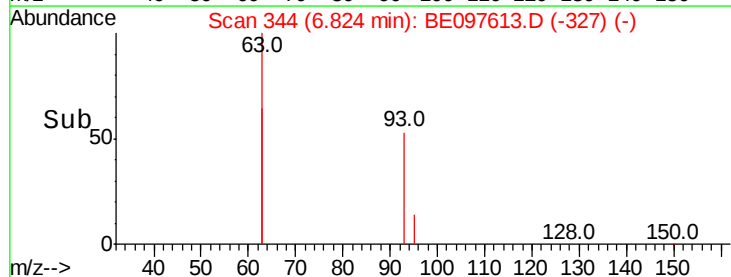
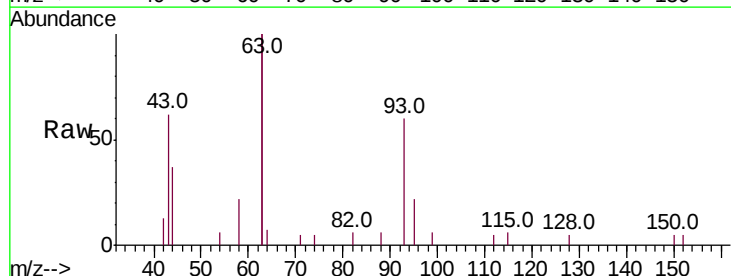
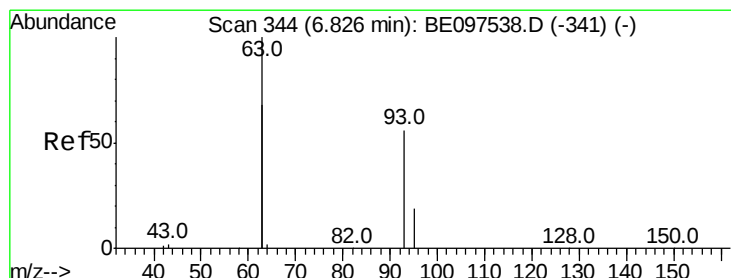
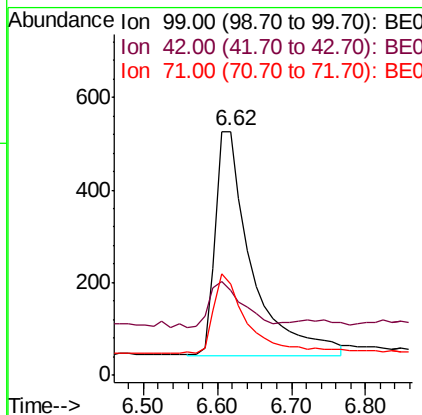
ClientSampleId :

PB112956BS

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#6

bis(2-Chloroethyl)ether

Concen: 0.333 ng/ml

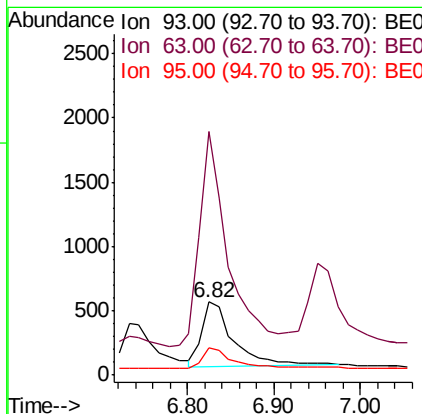
RT: 6.82 min Scan# 344

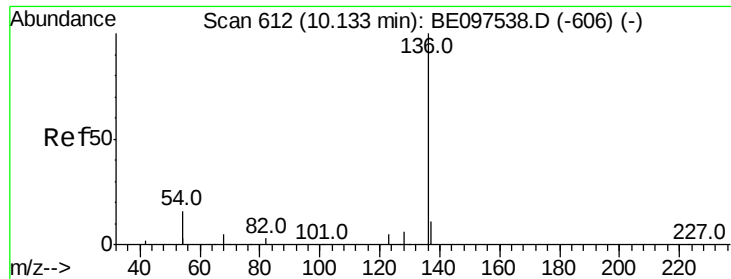
Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 93    | Resp: | 1267  |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 63        | 301.5 | 275.3 | 412.9 |
| 95        | 33.5  | 25.2  | 37.8  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.12 min Scan# 611

Delta R.T. -0.01 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

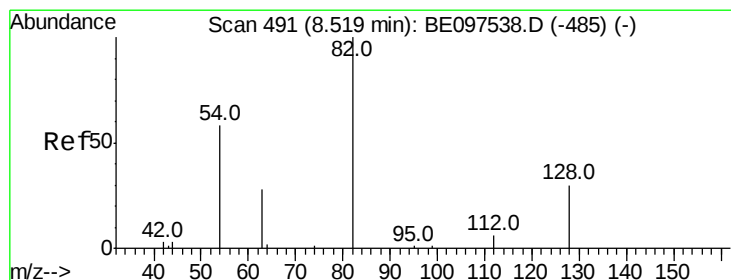
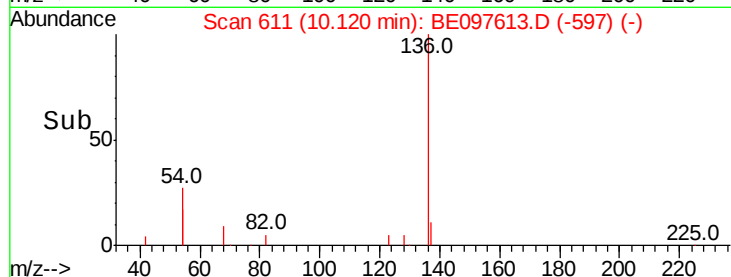
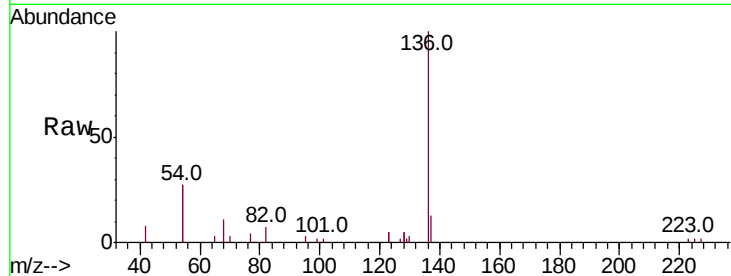
ClientSampleId :

PB112956BS

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   | 4578 |       |       |
| 137     | 13.2  |      | 9.5   | 14.3  |
| 54      | 53.5  |      | 29.1  | 43.7# |
| 68      | 10.8  |      | 6.2   | 9.2#  |

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#8

Nitrobenzene-d5

Concen: 0.376 ng

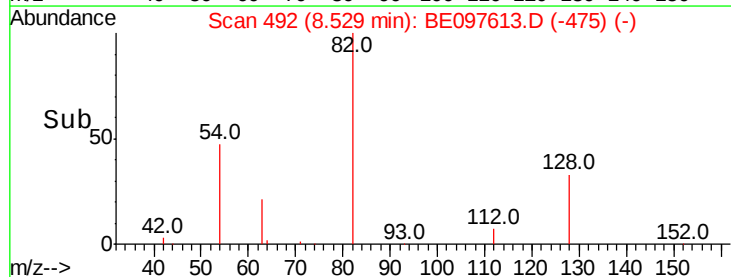
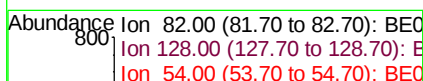
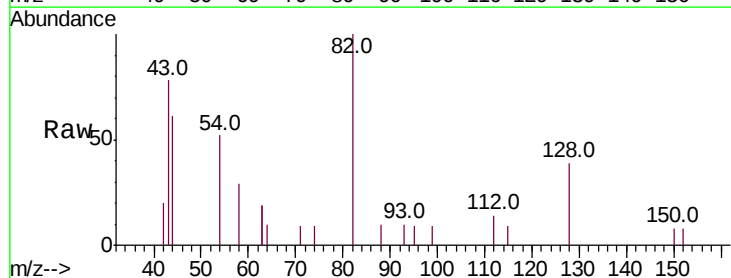
RT: 8.53 min Scan# 492

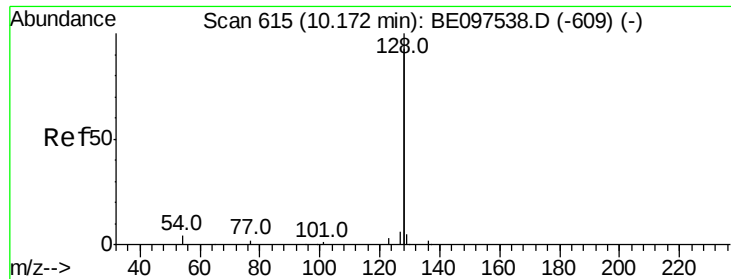
Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   | 1330 |       |       |
| 128     | 38.8  |      | 24.0  | 36.0# |
| 54      | 52.4  |      | 40.0  | 60.0  |





#9

Naphthalene

Concen: 0.411 ng

RT: 10.17 min Scan# 615

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

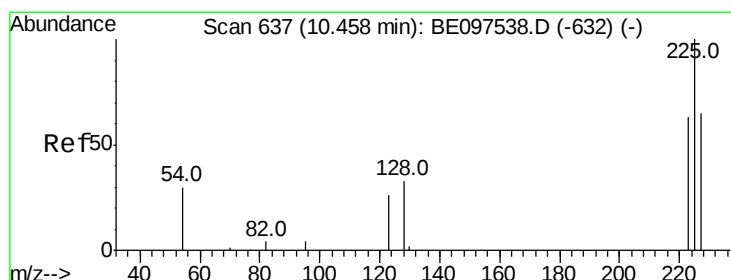
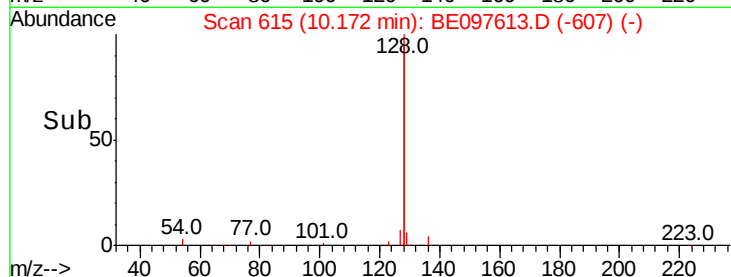
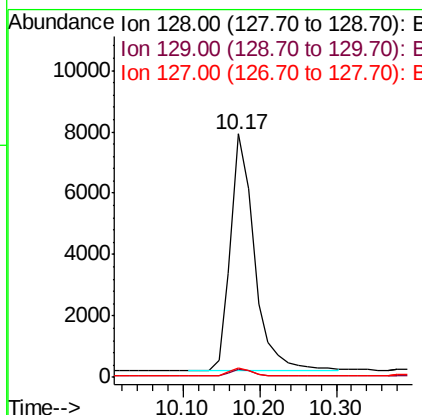
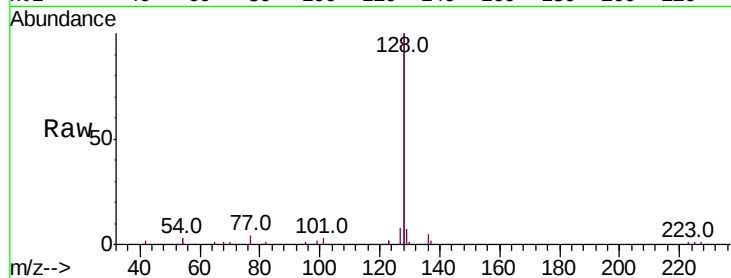
ClientSampleId :

PB112956BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 16947 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 3.4   | 2.6   | 3.8   |
| 127       | 3.9   | 2.8   | 4.2   |

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#10

Hexachlorobutadiene

Concen: 0.375 ng

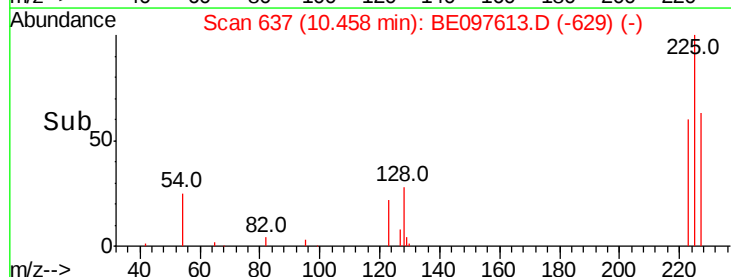
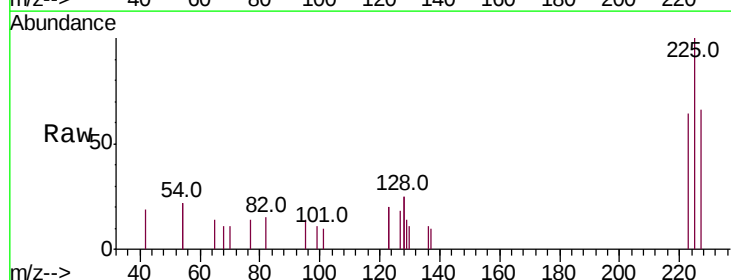
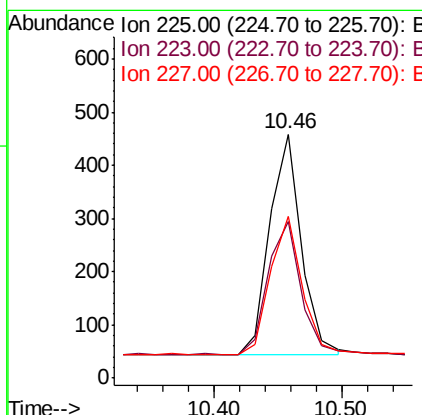
RT: 10.46 min Scan# 637

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 712  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 62.1  | 53.0  | 79.6 |
| 227       | 62.2  | 51.4  | 77.2 |





#11

2-Methylnaphthalene-d10

Concen: 0.530 ng

RT: 11.72 min Scan# 758

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

PB112956BS

Tot Ion:152 Resp: 3342

Ion Ratio Lower Upper

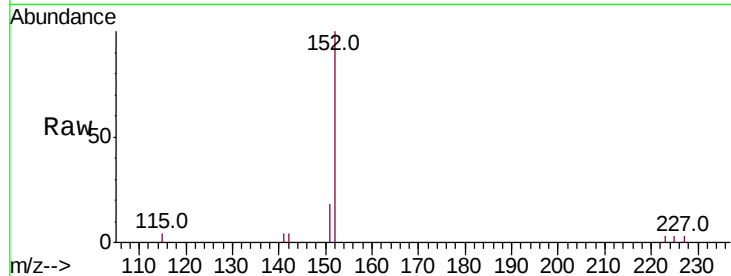
152 100

151 14.2 15.4 23.0#

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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.72

1500

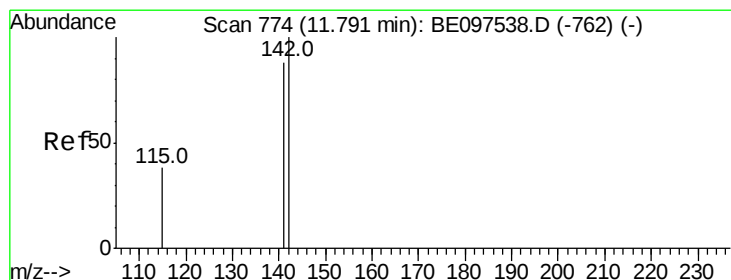
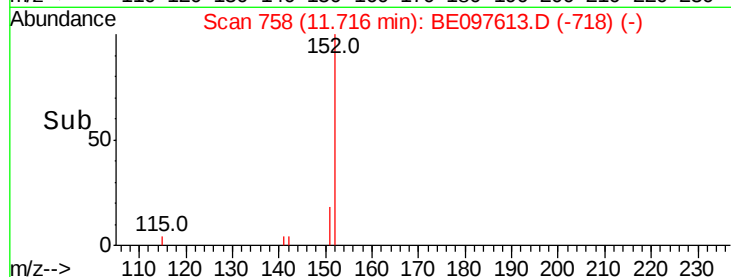
1000

500

0

Time-->

11.60 11.70 11.80 11.90



#12

2-Methylnaphthalene

Concen: 0.390 ng

RT: 11.80 min Scan# 775

Delta R.T. 0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

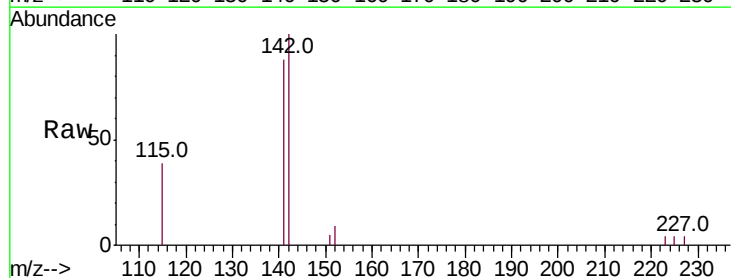
Tgt Ion:142 Resp: 2507

Ion Ratio Lower Upper

142 100

141 88.1 70.4 105.6

115 39.4 31.7 47.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

11.80

1500

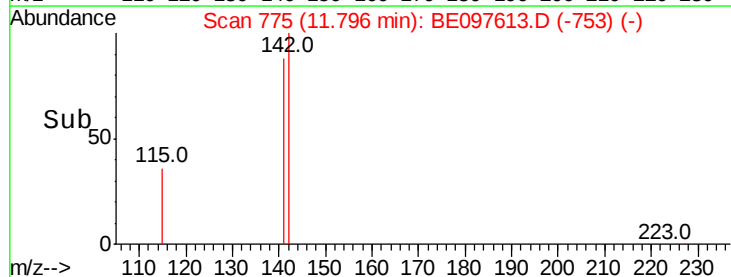
1000

500

0

Time-->

11.70 11.80





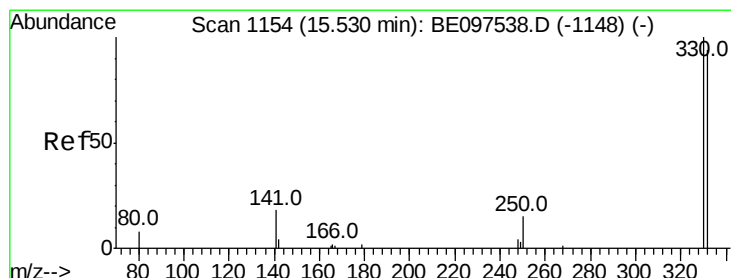
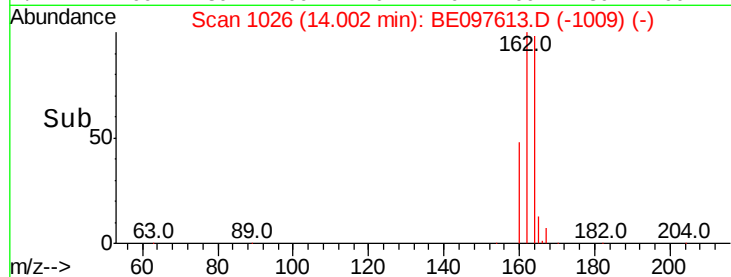
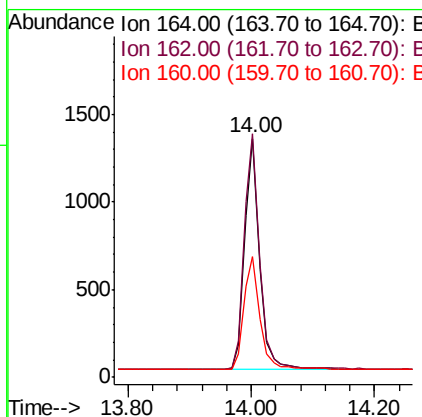
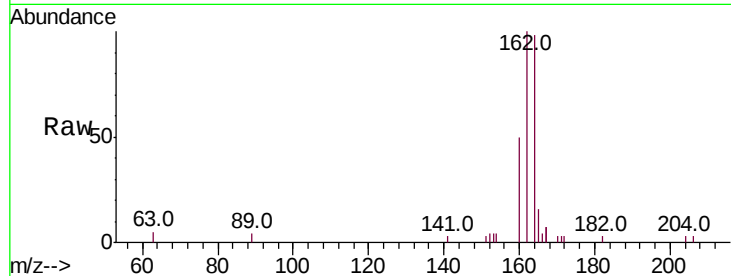
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.00 min Scan# 1026  
 Delta R.T. -0.00 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB112956BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.9 | 83.1  | 124.7 |
| 160     | 50.8  | 37.1  | 55.7  |

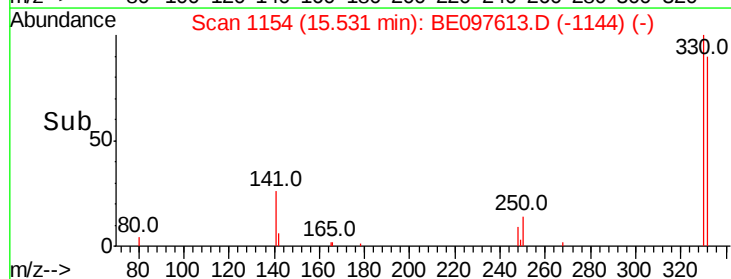
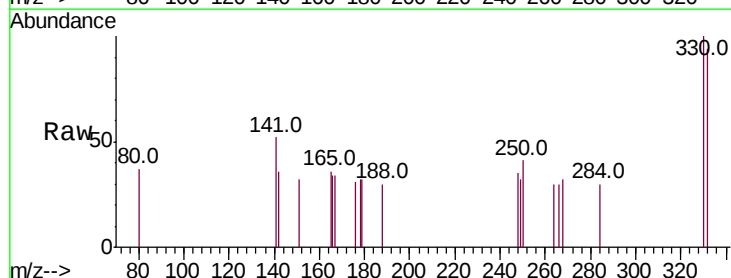
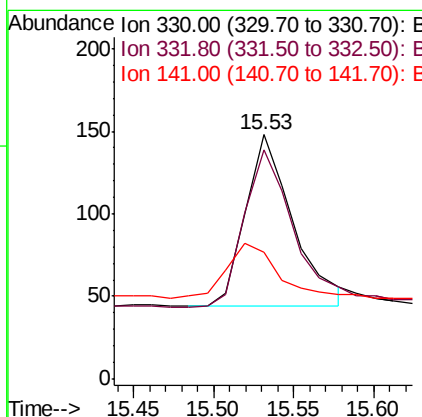
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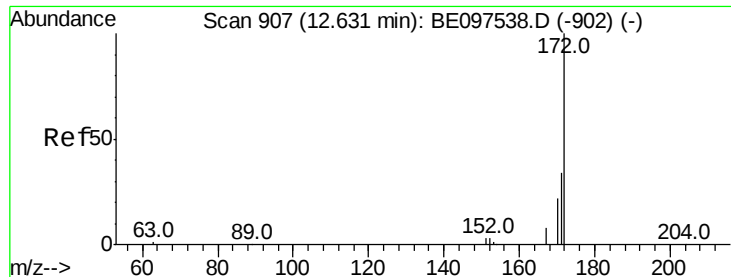
Sohil  
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#14  
 2,4,6-Tribromophenol  
 Concen: 0.293 ng  
 RT: 15.53 min Scan# 1154  
 Delta R.T. 0.01 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 330     | 100   |       |        |
| 332     | 96.7  | 152.7 | 229.1# |
| 141     | 34.0  | 33.7  | 50.5   |





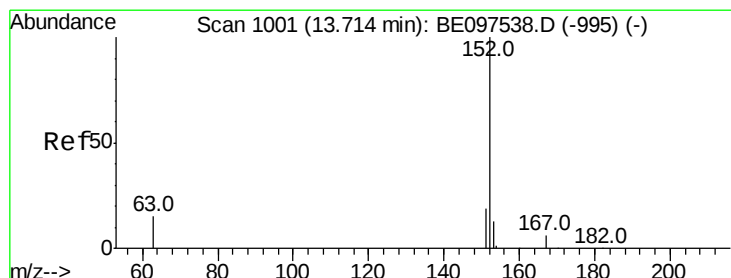
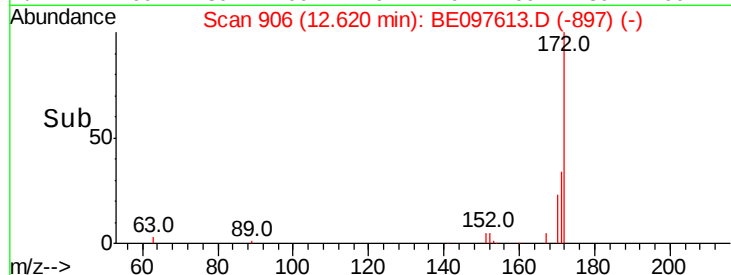
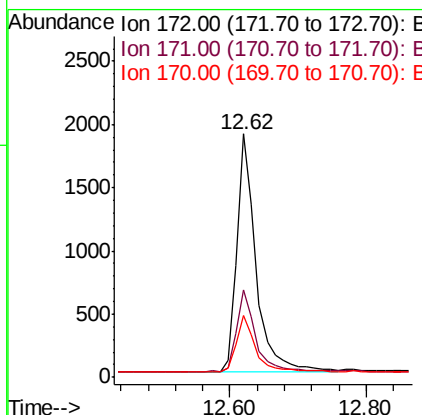
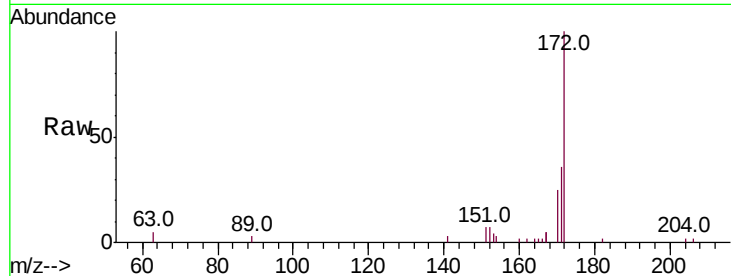
#15  
2-Fluorobiphenyl  
Concen: 0.465 ng  
RT: 12.62 min Scan# 906  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Instrument :  
BNA\_E  
ClientSampleId :  
PB112956BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 29.9  | 44.9  |
| 170     | 25.3  | 21.8  | 32.8  |

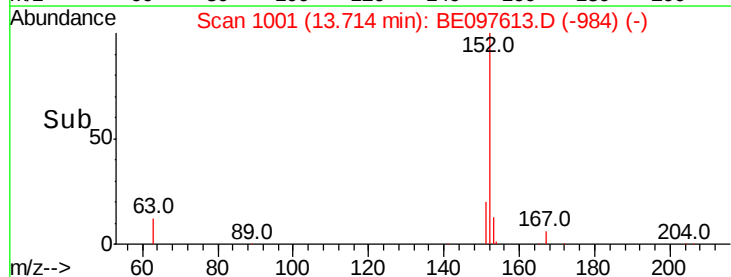
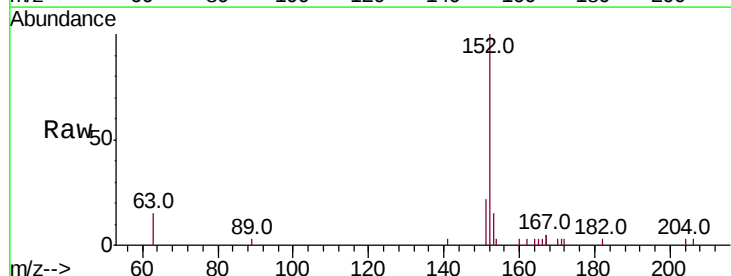
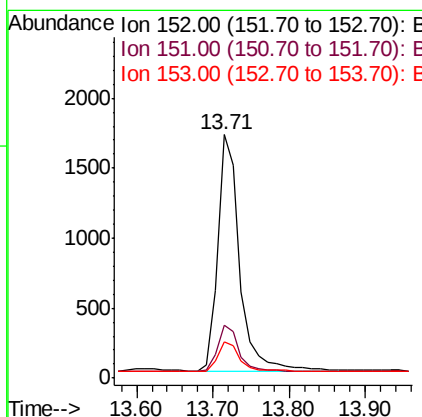
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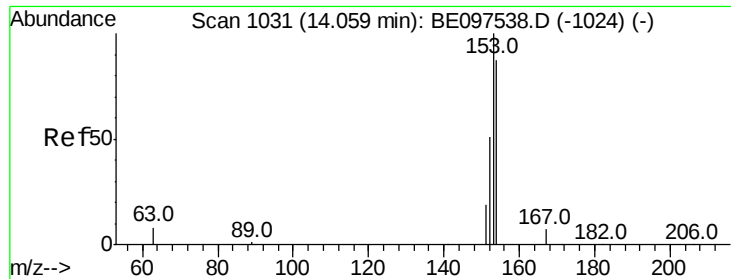
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#16  
Acenaphthylene  
Concen: 0.381 ng  
RT: 13.71 min Scan# 1001  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.2  | 15.7  | 23.5  |
| 153     | 13.4  | 10.5  | 15.7  |





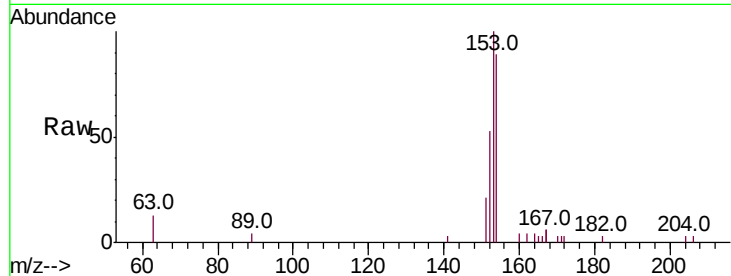
#17  
Acenaphthene  
Concen: 0.386 ng  
RT: 14.06 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Instrument :  
BNA\_E  
ClientSampleId :  
PB112956BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 114.9 | 89.2  | 133.8 |
| 152     | 58.7  | 42.0  | 63.0  |

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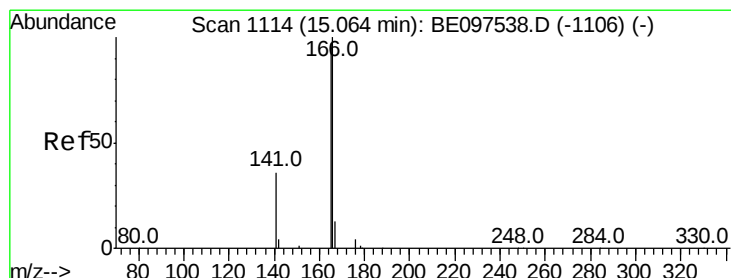
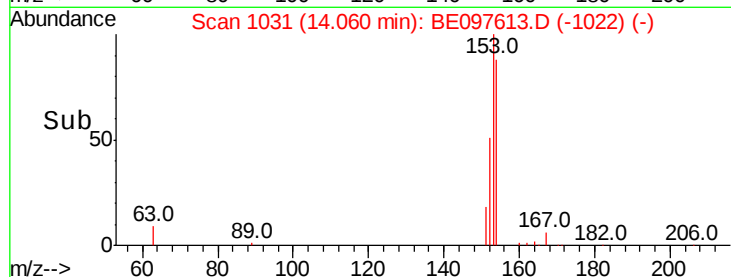
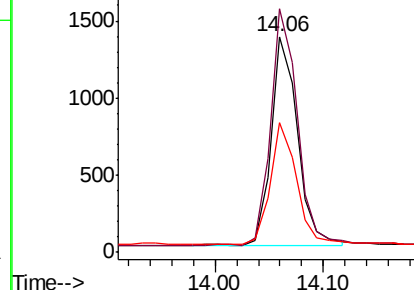


Abundance

Ion 154.00 (153.70 to 154.70): E

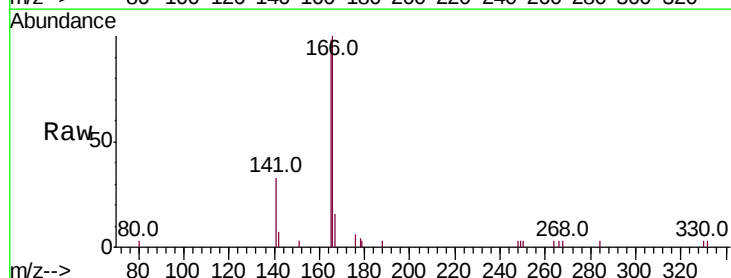
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18  
Fluorene  
Concen: 0.377 ng  
RT: 15.06 min Scan# 1114  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.9  | 77.8  | 116.6 |
| 167     | 13.7  | 42.4  | 63.6# |

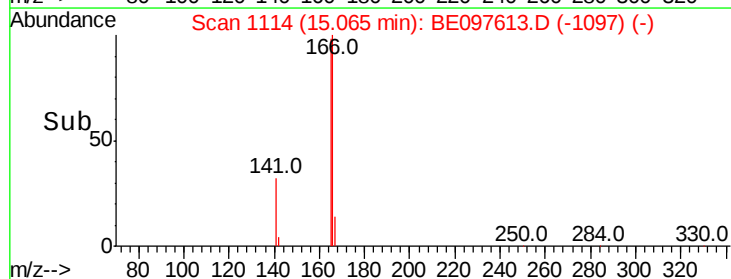
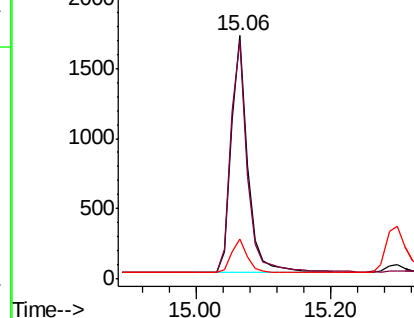


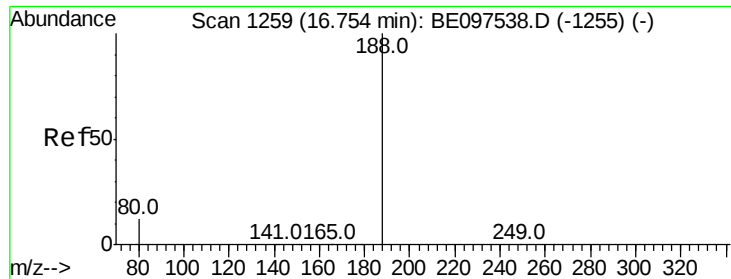
Abundance

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: 16.75 min Scan# 1259

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

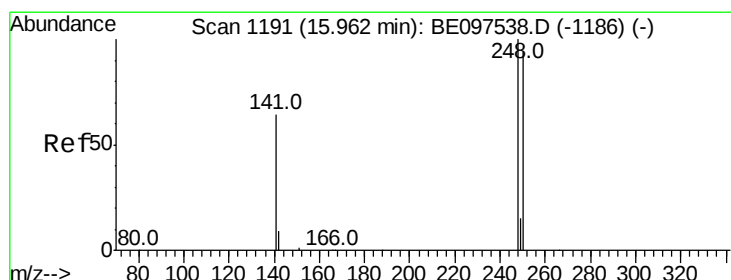
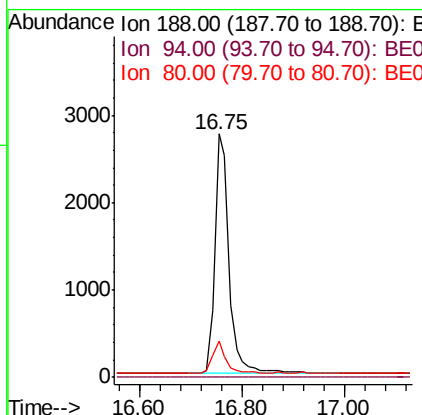
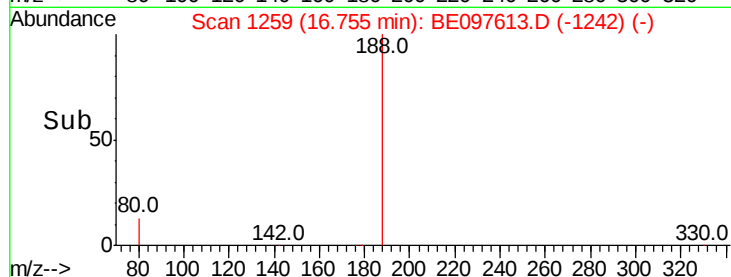
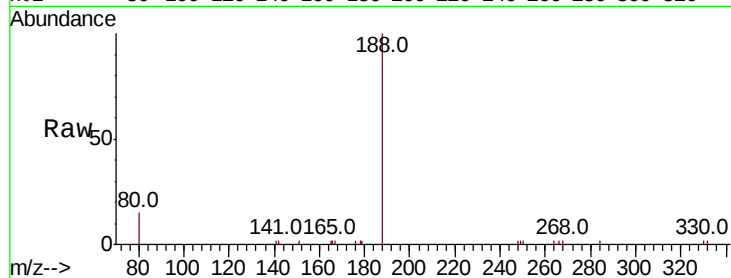
ClientSampleId :

PB112956BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 188   | Resp: | 5274 |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 3.9   | 5.9# |
| 80        | 15.1  | 3.6   | 5.4# |

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#20

4-Bromophenyl-phenylether

Concen: 0.379 ng

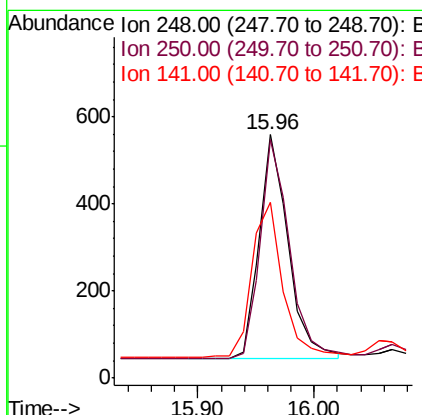
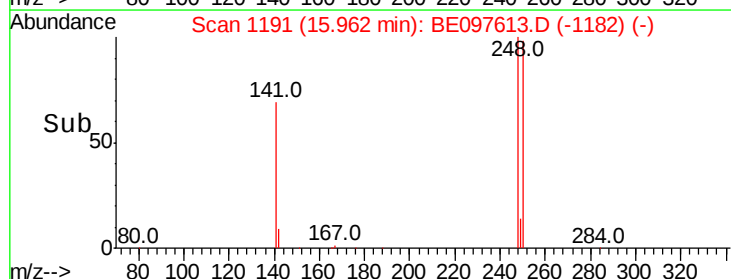
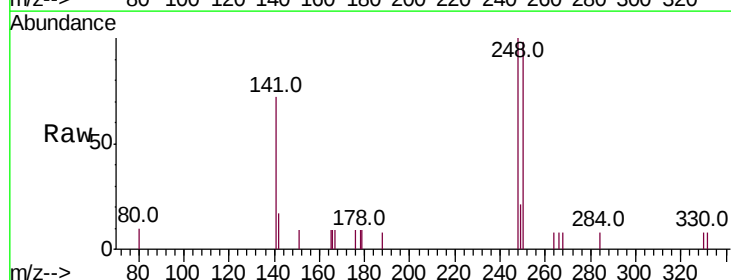
RT: 15.96 min Scan# 1191

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 901   |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 97.9  | 62.7  | 94.1# |
| 141       | 72.3  | 48.2  | 72.2# |





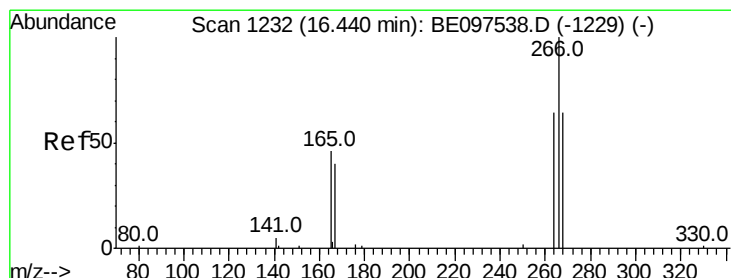
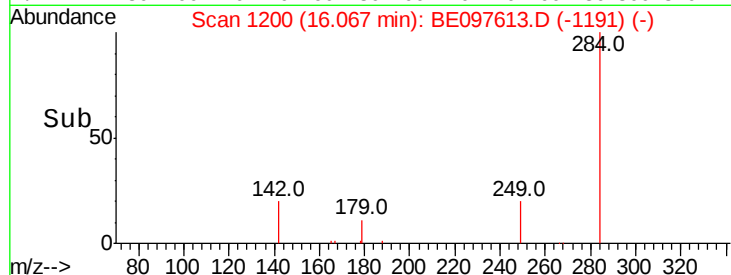
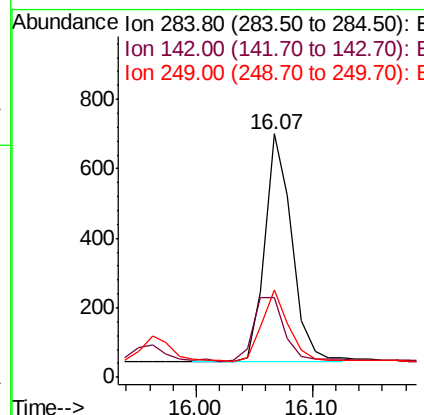
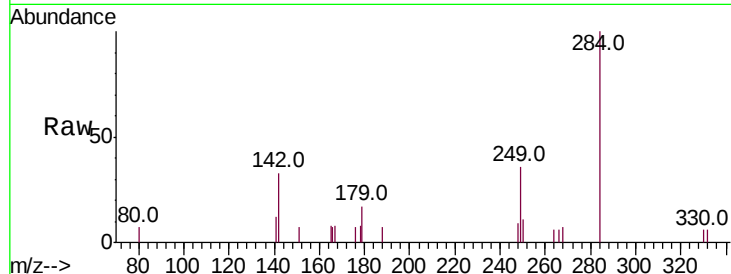
#21  
Hexachlorobenzene  
Concen: 0.410 ng  
RT: 16.07 min Scan# 1200  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Instrument :  
BNA\_E  
ClientSampleId :  
PB112956BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 32.2  | 22.1  | 33.1  |
| 249     | 30.2  | 34.8  | 52.2# |

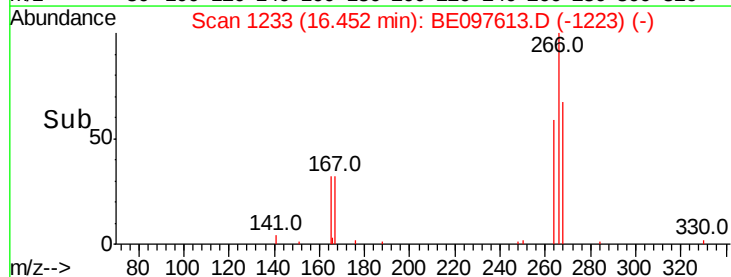
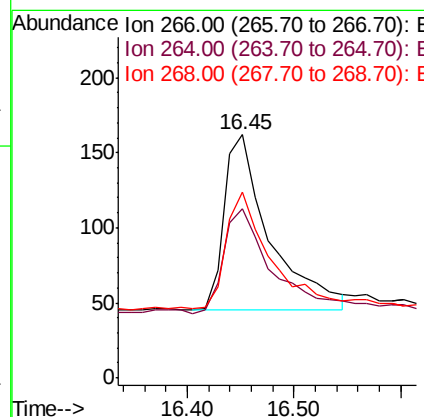
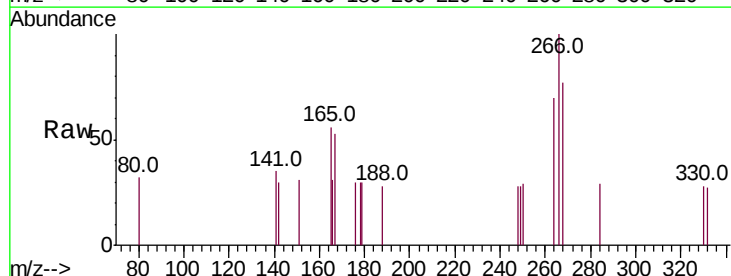
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#22  
Pentachlorophenol  
Concen: 0.426 ng  
RT: 16.45 min Scan# 1233  
Delta R.T. 0.01 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 266     | 100   |       |        |
| 264     | 69.8  | 72.5  | 108.7# |
| 268     | 76.5  | 73.8  | 110.6  |





#23

Phenanthrene

Concen: 0.393 ng

RT: 16.80 min Scan# 1263

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

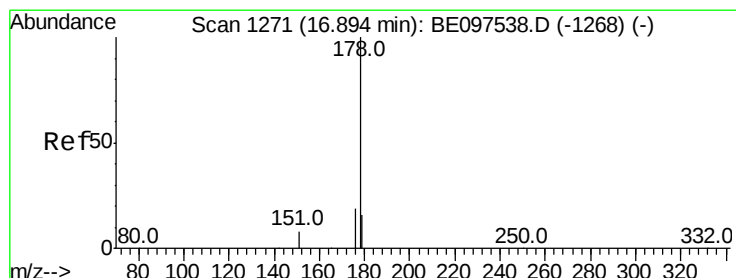
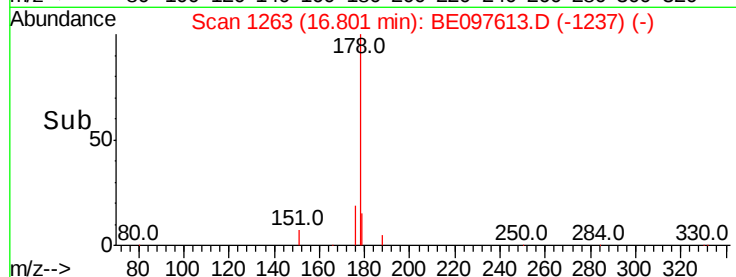
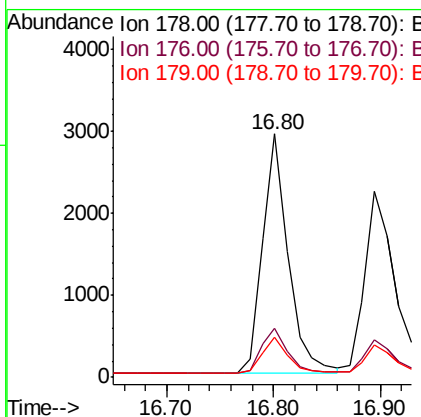
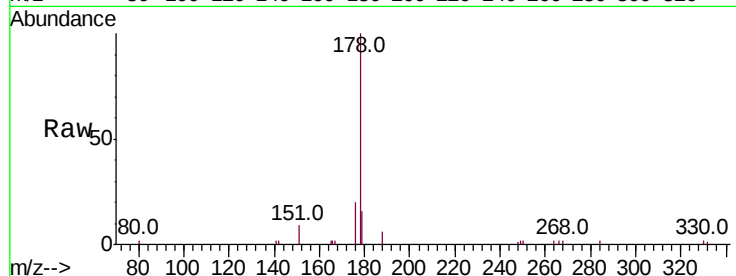
PB112956BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 178   | Resp: | 4924  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 176      | 19.7  | 15.1  | 22.7  |
| 179      | 15.6  | 11.8  | 17.6  |

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#24

Anthracene

Concen: 0.384 ng

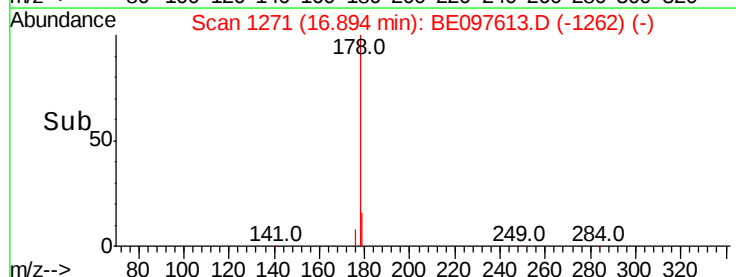
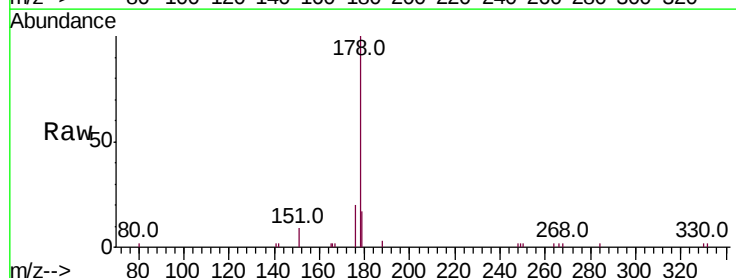
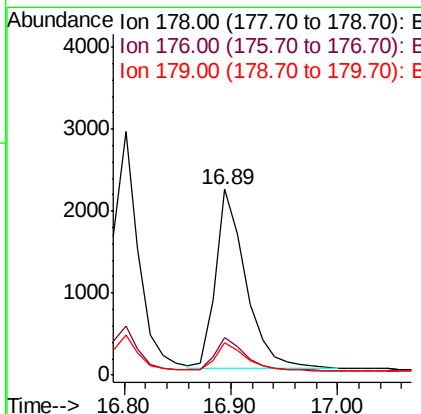
RT: 16.89 min Scan# 1271

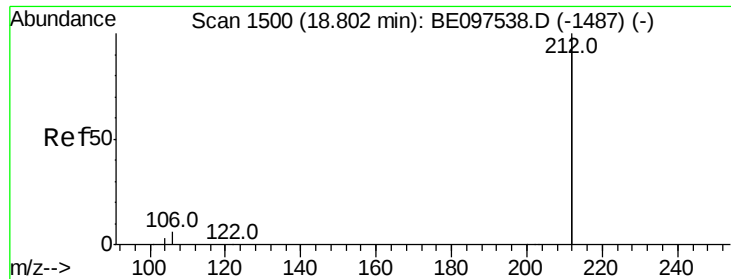
Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 4246  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 176      | 18.6  | 12.8  | 19.2  |
| 179      | 15.3  | 13.0  | 19.6  |





#25

Fluoranthene-d10

Concen: 0.375 ng

RT: 18.80 min Scan# 1500

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

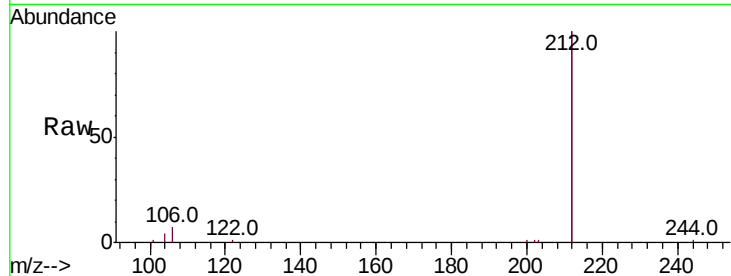
ClientSampleId :

PB112956BS

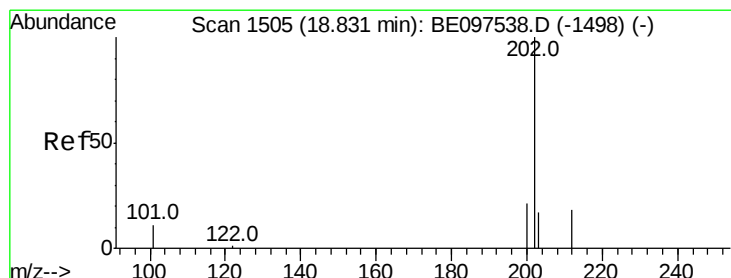
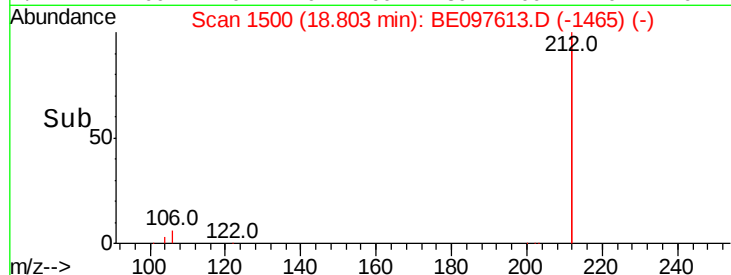
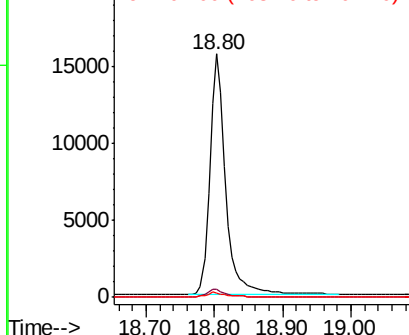
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 25292 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 3.1   | 2.8   | 4.2   |
| 104       | 1.8   | 1.6   | 2.4   |

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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: 0.353 ng

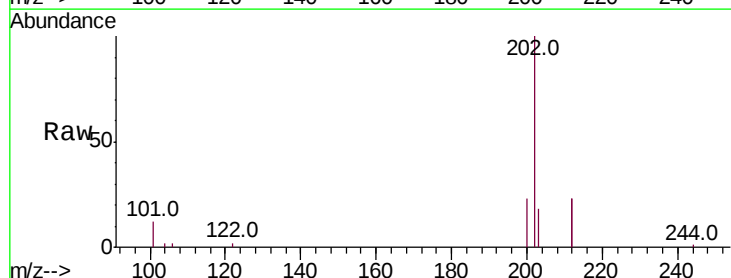
RT: 18.83 min Scan# 1505

Delta R.T. -0.00 min

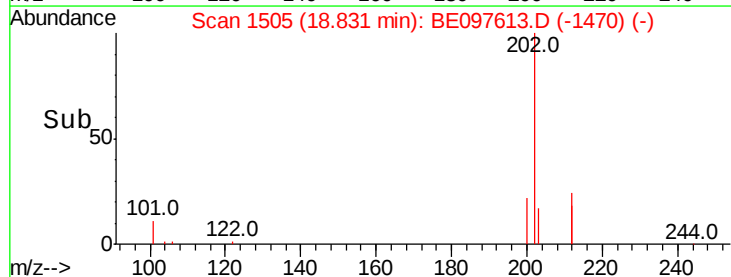
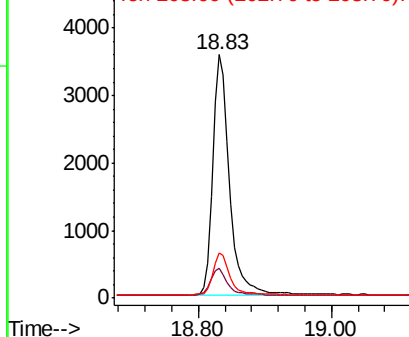
Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 6129 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 10.9  | 9.8   | 14.8 |
| 203       | 17.3  | 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





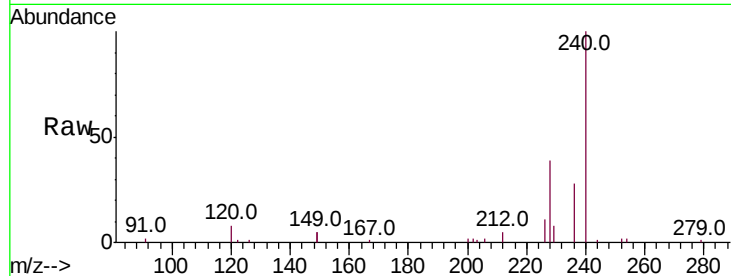
#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 20.97 min Scan# 1785  
 Delta R.T. 0.00 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB112956BS

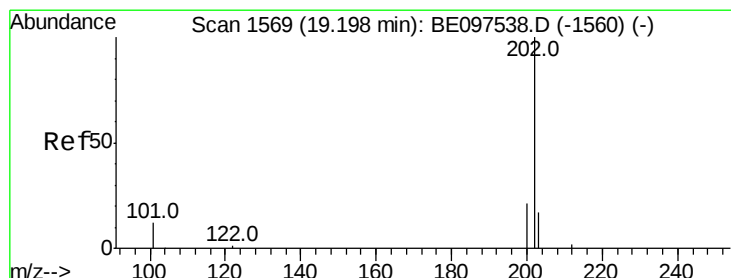
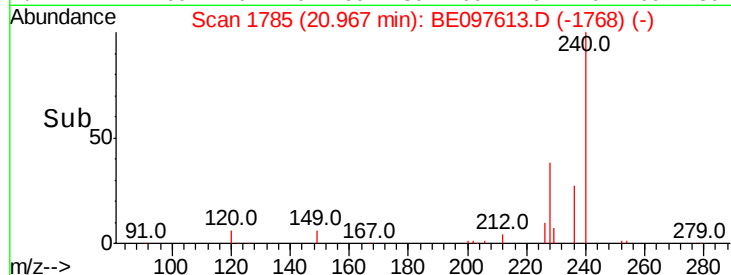
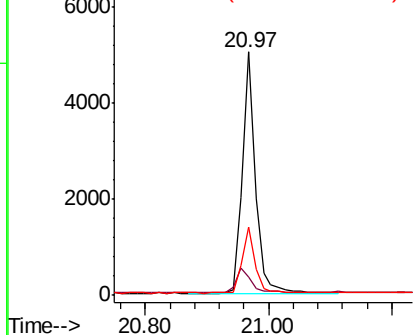
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 7.7   | 5.5   | 8.3   |
| 236     | 28.0  | 20.7  | 31.1  |

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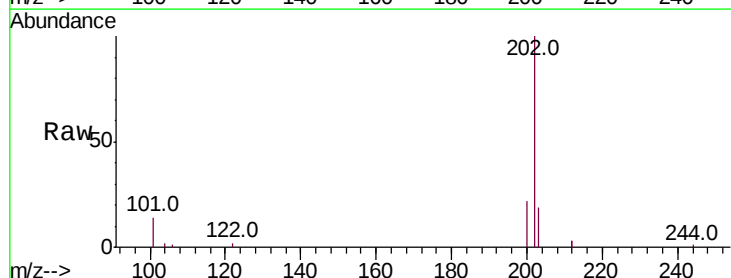


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

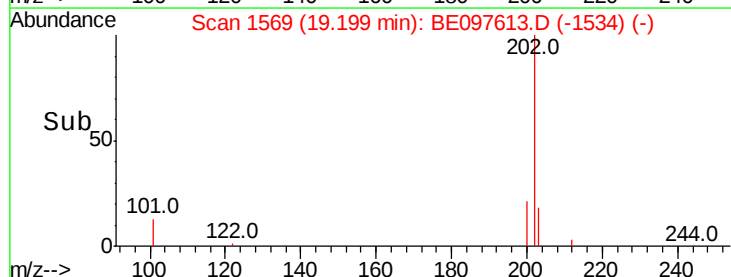
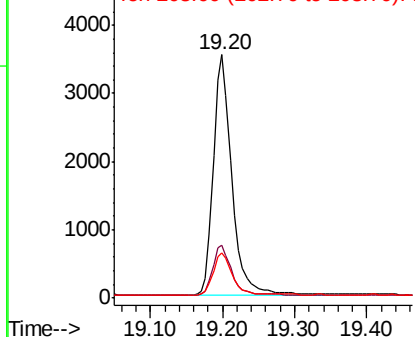


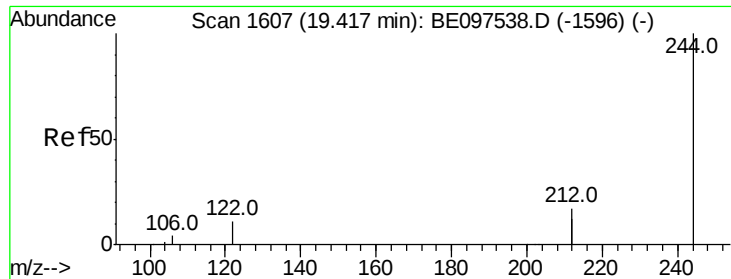
#28  
 Pyrene  
 Concen: 0.377 ng  
 RT: 19.20 min Scan# 1569  
 Delta R.T. -0.00 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 16.6  | 25.0  |
| 203     | 18.0  | 13.8  | 20.8  |



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E





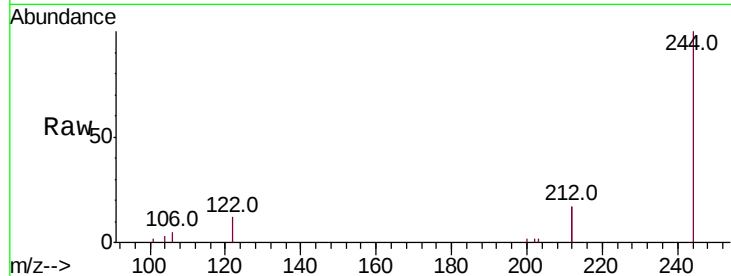
#29  
 Terphenyl-d14  
 Concen: 0.342 ng  
 RT: 19.42 min Scan# 1607  
 Delta R.T. -0.00 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB112956BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 33.9  | 25.4  | 38.0  |
| 122     | 11.8  | 8.1   | 12.1  |

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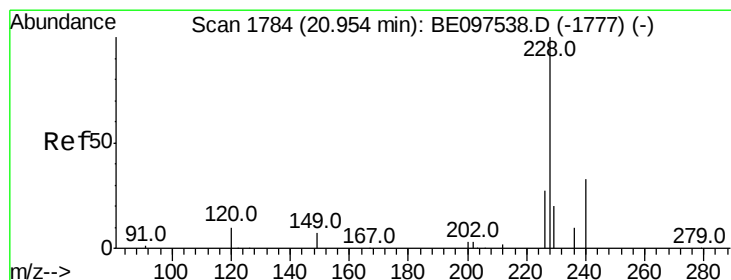
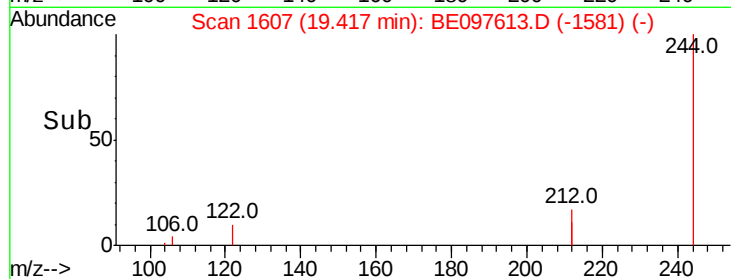
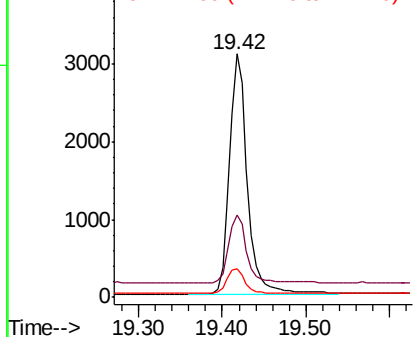


Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30  
 Benzo(a)anthracene  
 Concen: 0.395 ng  
 RT: 20.96 min Scan# 1784  
 Delta R.T. 0.00 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

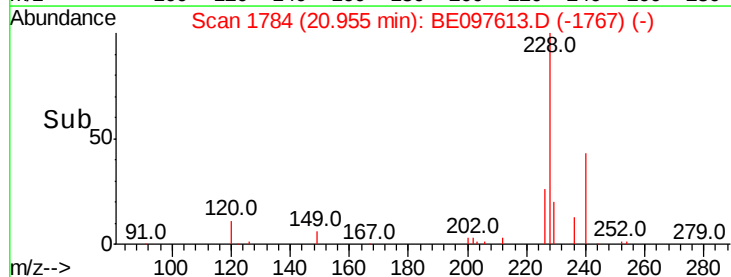
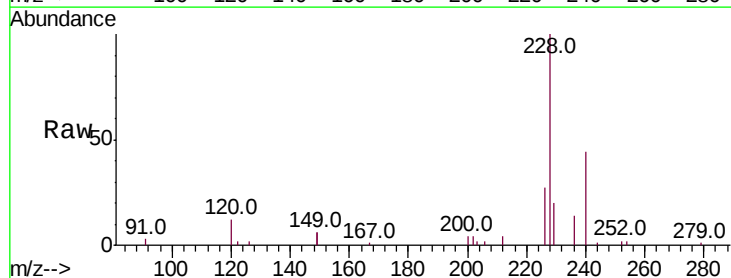
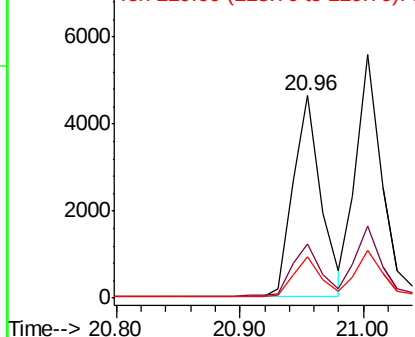
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.0  | 24.0  | 36.0  |
| 229     | 20.5  | 16.0  | 24.0  |

Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





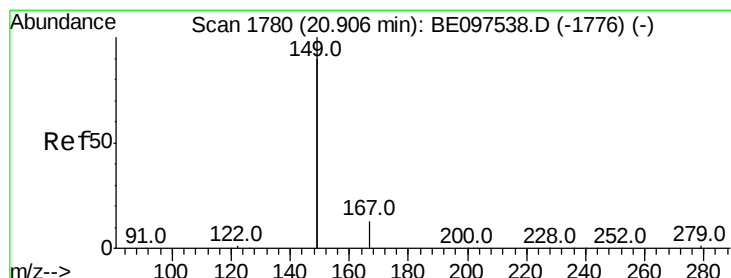
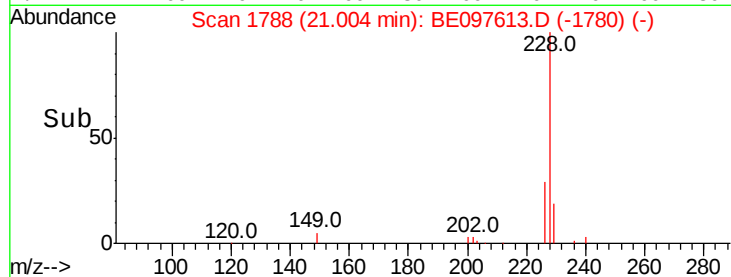
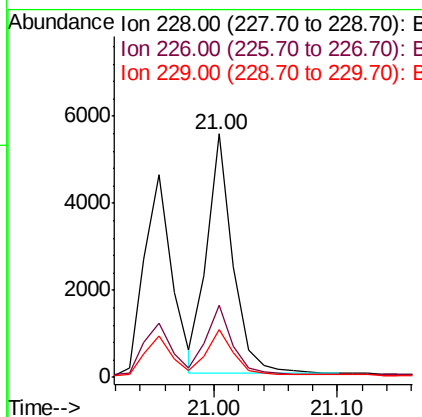
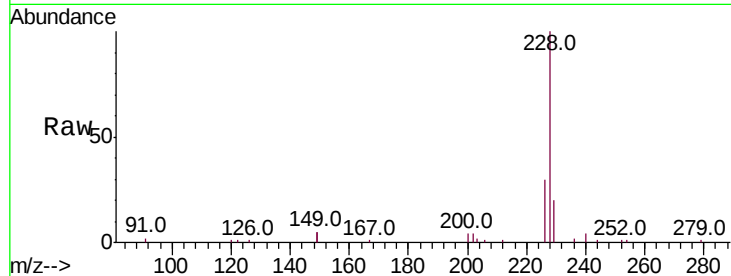
#31  
 Chrysene  
 Concen: 0.411 ng  
 RT: 21.00 min Scan# 1788  
 Delta R.T. 0.00 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB112956BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 24.0  | 36.0  |
| 229     | 19.8  | 16.0  | 24.0  |

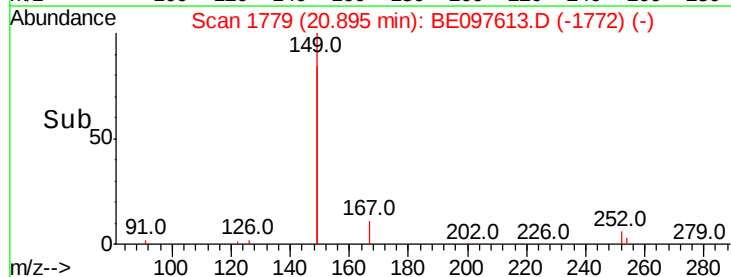
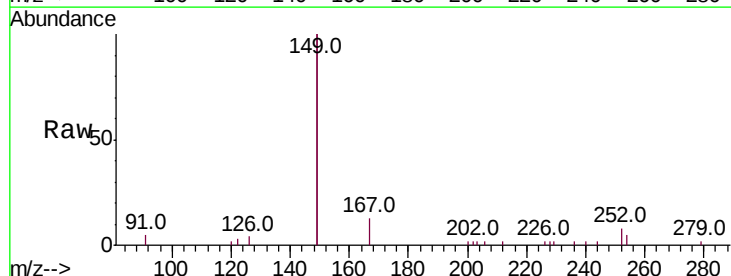
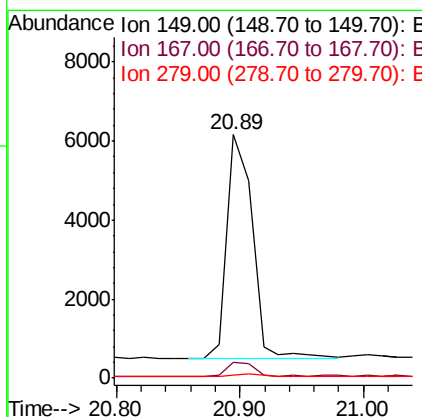
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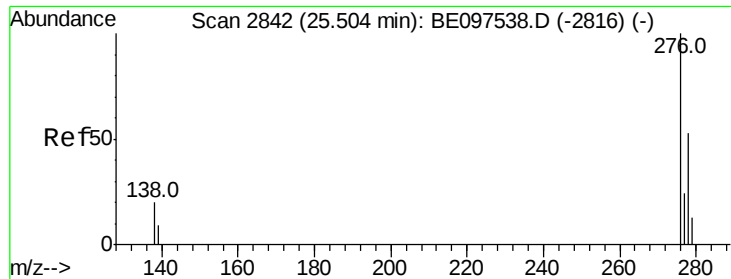
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#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.274 ng  
 RT: 20.89 min Scan# 1779  
 Delta R.T. -0.01 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 6.4   | 5.4   | 8.0   |
| 279     | 1.1   | 0.7   | 1.1#  |





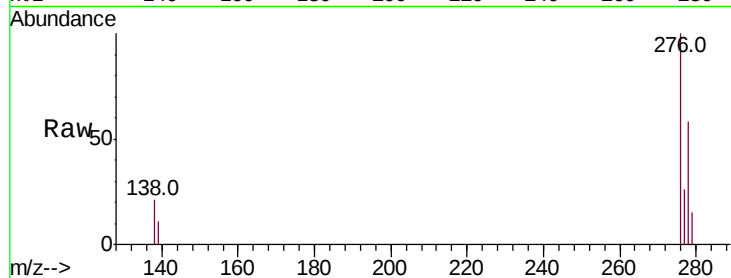
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.442 ng  
 RT: 25.50 min Scan# 2842  
 Delta R.T. 0.00 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB112956BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.1  | 22.5  | 33.7# |
| 277     | 24.8  | 19.9  | 29.9  |

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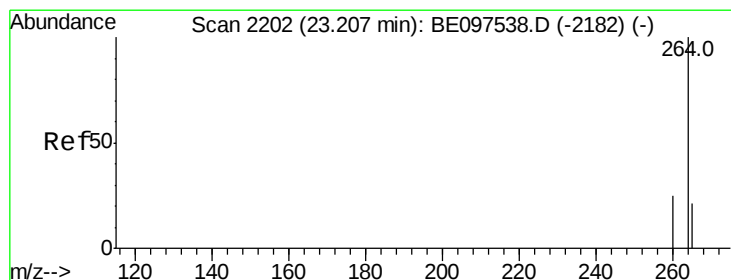
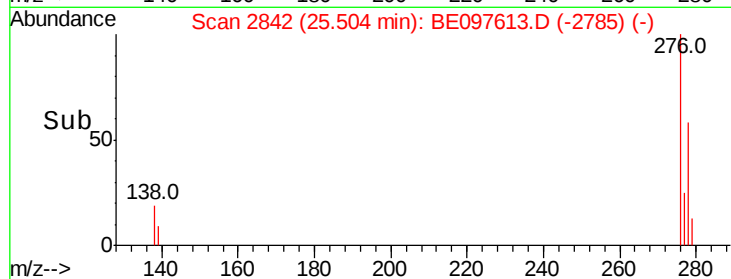
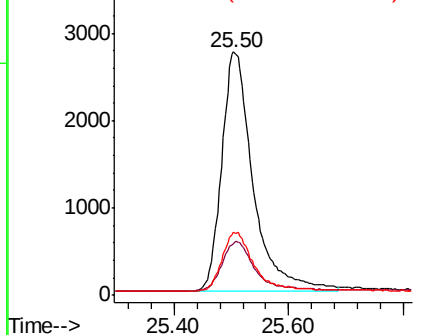


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.20 min Scan# 2201  
 Delta R.T. -0.00 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

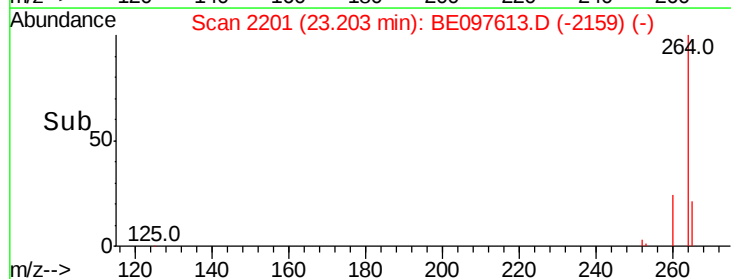
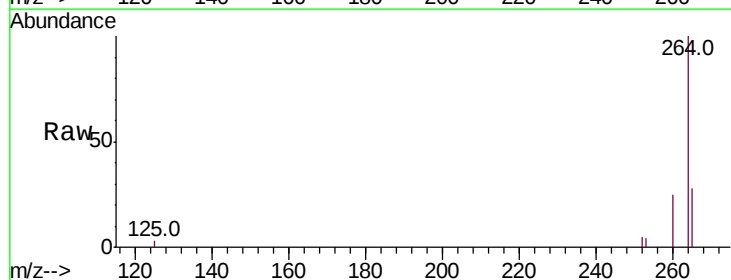
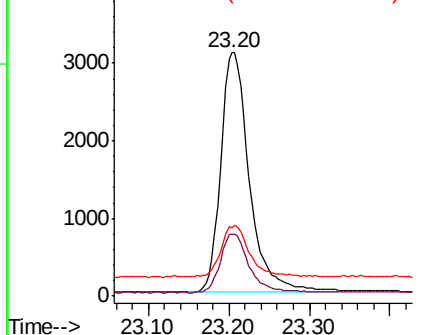
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.2  | 20.5  | 30.7  |
| 265     | 28.2  | 22.8  | 34.2  |

Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





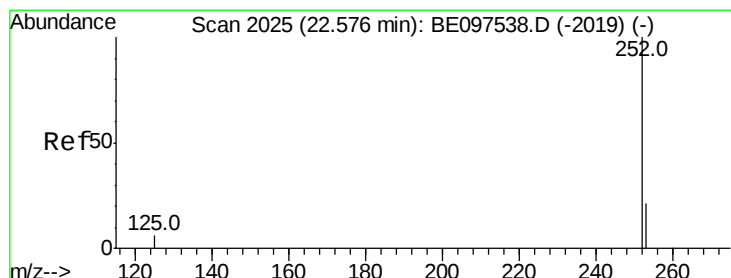
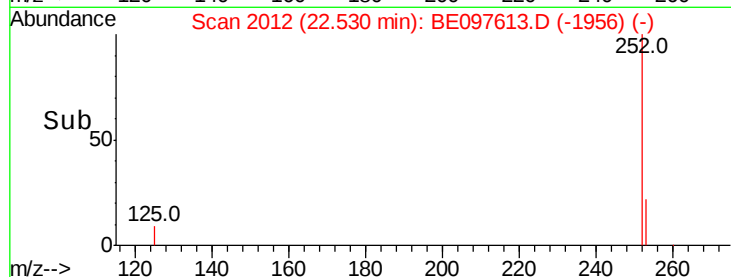
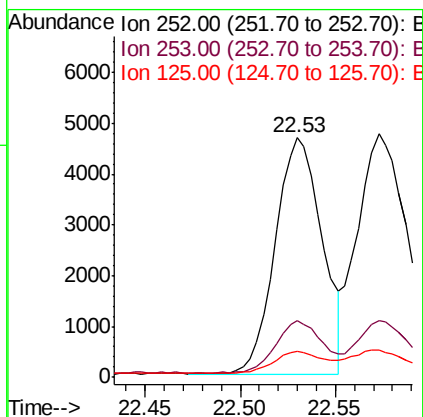
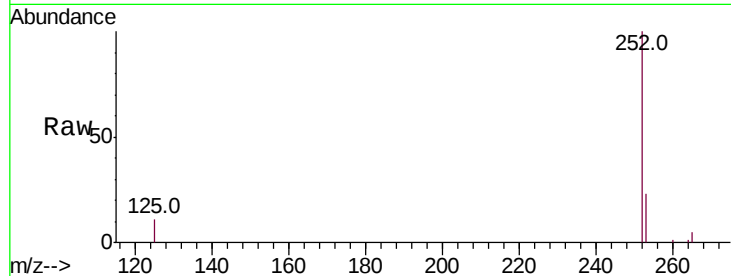
#35  
Benzo(b)fluoranthene  
Concen: 0.407 ng  
RT: 22.53 min Scan# 2012  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Instrument :  
BNA\_E  
ClientSampleId :  
PB112956BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 20.0  | 30.0  |
| 125     | 10.7  | 16.0  | 24.0  |

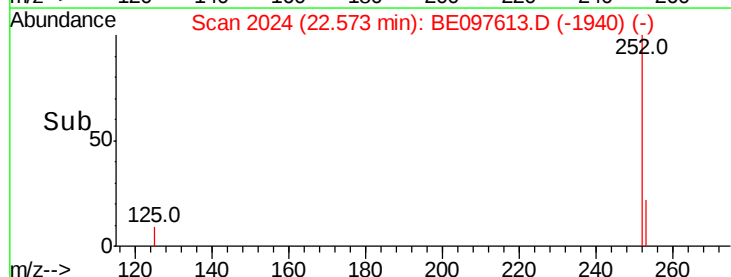
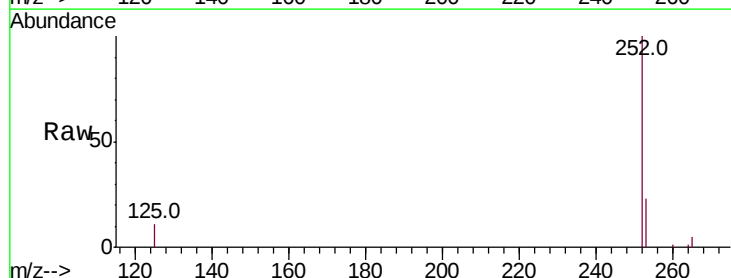
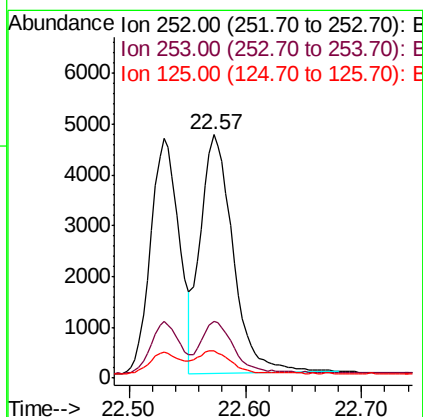
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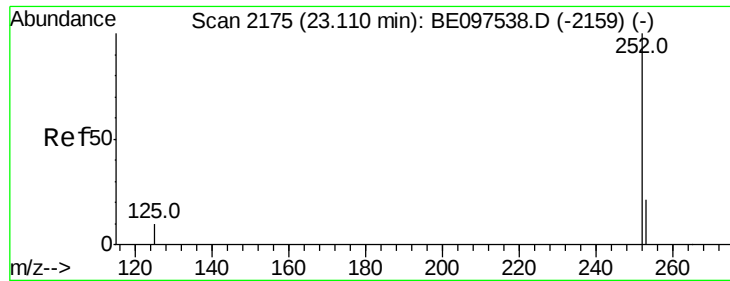
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#36  
Benzo(k)fluoranthene  
Concen: 0.412 ng  
RT: 22.57 min Scan# 2024  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 16.0  | 24.0  |
| 125     | 11.0  | 8.0   | 12.0  |





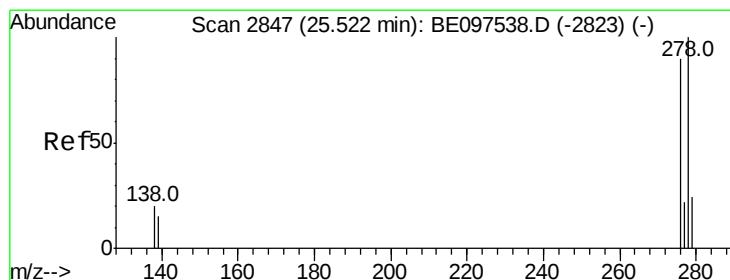
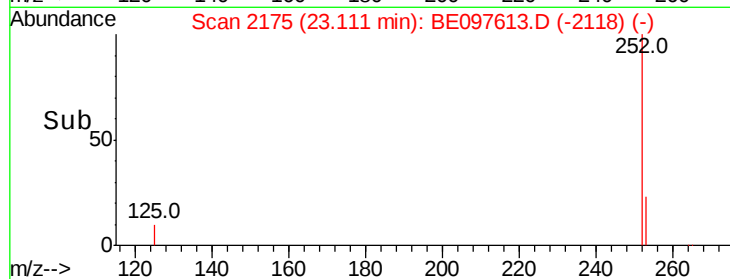
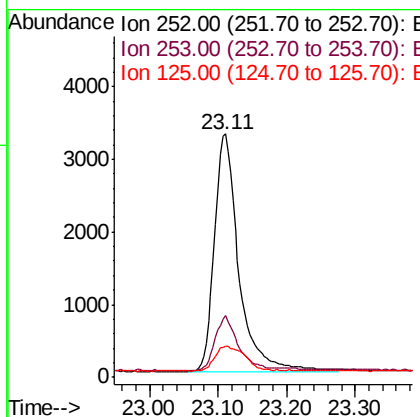
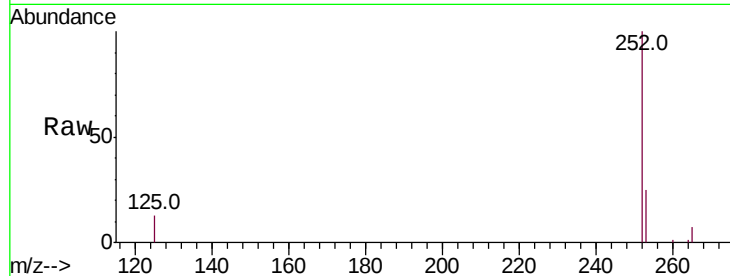
#37  
Benzo(a)pyrene  
Concen: 0.425 ng  
RT: 23.11 min Scan# 2175  
Delta R.T. 0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Instrument :  
BNA\_E  
ClientSampleId :  
PB112956BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 16.0  | 24.0# |
| 125     | 12.6  | 12.0  | 18.0  |

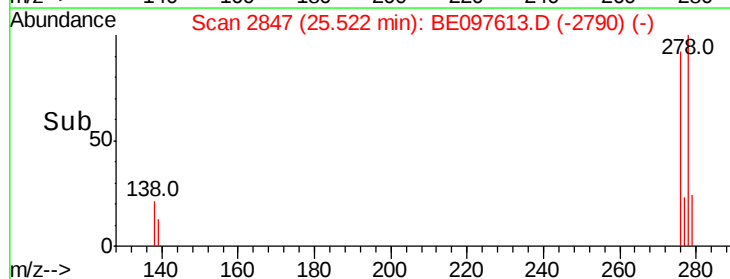
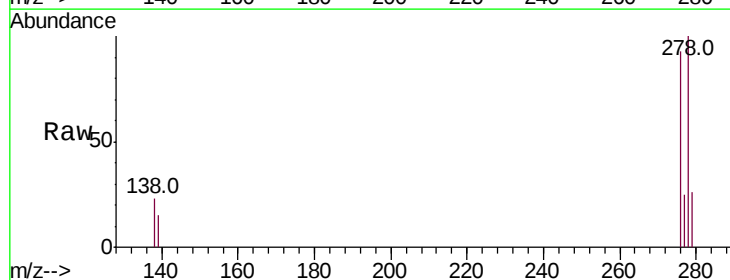
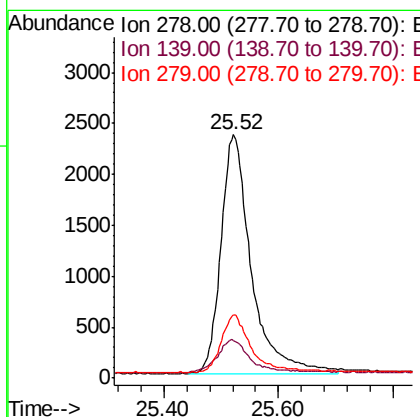
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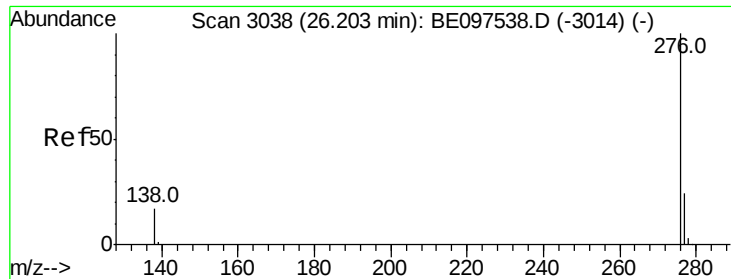
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#38  
Dibenzo(a,h)anthracene  
Concen: 0.422 ng  
RT: 25.52 min Scan# 2847  
Delta R.T. 0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 15.4  | 16.0  | 24.0# |
| 279     | 26.1  | 20.0  | 30.0  |





#39

Benzo(a,h,i)perylene

Concen: 0.433 ng

RT: 26.21 min Scan# 3040

Delta R.T. 0.01 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

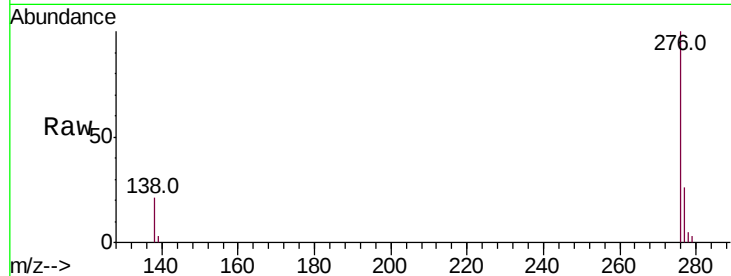
PB112956BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.6  | 16.0  | 24.0  |
| 138     | 20.7  | 20.0  | 30.0  |

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

