

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE020720\  
 Data File : BE101137.D  
 Acq On : 7 Feb 2020 14:35  
 Operator : CG/JU  
 Sample : PB126655BSD  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB126655BSD

Quant Time: Feb 07 15:24:10 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE010820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 08 18:36:25 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.70  | 152  | 1506     | 0.40 | ng    | -0.03    |
| 7) Naphthalene-d8         | 10.48 | 136  | 5943     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.34 | 164  | 3650     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.08 | 188  | 7830     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.27 | 240  | 8137     | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.68 | 264  | 12204    | 0.40 | ng    | -0.02    |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.32  | 112 | 1145  | 0.34 | ng | -0.02 |
| 5) Phenol-d6                | 6.92  | 99  | 1527  | 0.36 | ng | 0.00  |
| 8) Nitrobenzene-d5          | 8.87  | 82  | 2130  | 0.50 | ng | 0.00  |
| 11) 2-Methylnaphthalene-d10 | 12.09 | 152 | 4090  | 0.36 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol    | 15.85 | 330 | 185   | 0.18 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 12.97 | 172 | 6854  | 0.49 | ng | -0.03 |
| 25) Fluoranthene-d10        | 19.12 | 212 | 38001 | 0.35 | ng | -0.02 |
| 29) Terphenyl-d14           | 19.72 | 244 | 9136  | 0.46 | ng | -0.01 |

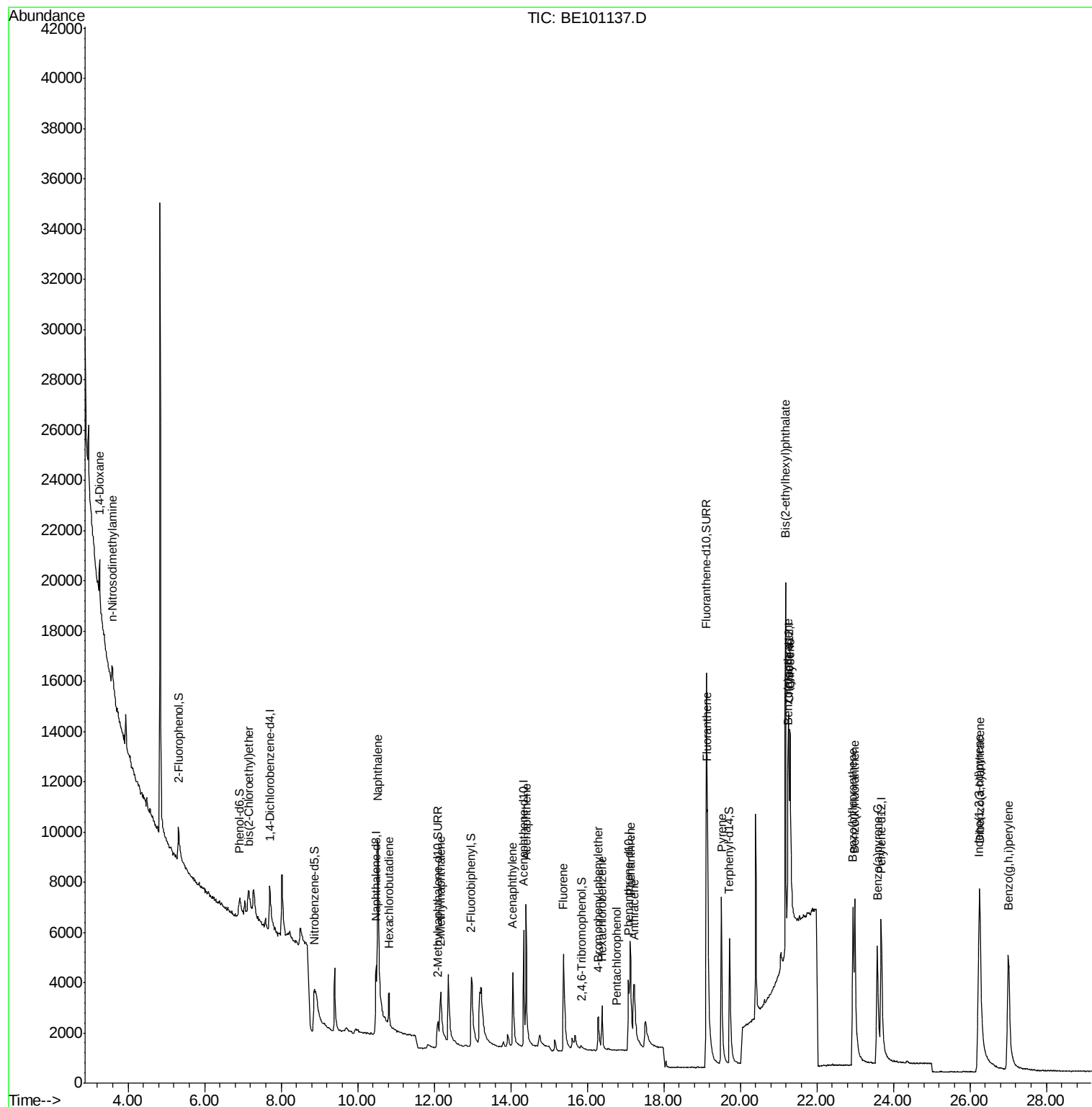
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.26  | 88  | 1302  | 0.340  | ng | # 49 |
| 3) n-Nitrosodimethylamine      | 3.58  | 42  | 963   | 0.460  | ng | # 87 |
| 6) bis(2-Chloroethyl)ether     | 7.15  | 93  | 1238  | 0.242  | ng | # 98 |
| 9) Naphthalene                 | 10.54 | 128 | 24850 | 0.377  | ng | # 98 |
| 10) Hexachlorobutadiene        | 10.82 | 225 | 1041  | 0.373  | ng | 99   |
| 12) 2-Methylnaphthalene        | 12.17 | 142 | 3408  | 0.341  | ng | 98   |
| 16) Acenaphthylene             | 14.05 | 152 | 5793  | 0.390  | ng | 99   |
| 17) Acenaphthene               | 14.40 | 154 | 3665  | 0.344  | ng | 100  |
| 18) Fluorene                   | 15.38 | 166 | 4484  | 0.333  | ng | 99   |
| 20) 4-Bromophenyl-phenylether  | 16.29 | 248 | 1424  | 0.373  | ng | 97   |
| 21) Hexachlorobenzene          | 16.38 | 284 | 1525  | 0.364  | ng | 96   |
| 22) Pentachlorophenol          | 16.77 | 266 | 22    | 0.265  | ng | # 77 |
| 23) Phenanthrene               | 17.12 | 178 | 6935  | 0.324  | ng | 98   |
| 24) Anthracene                 | 17.23 | 178 | 7836  | 0.388  | ng | 99   |
| 26) Fluoranthene               | 19.14 | 202 | 9603  | 0.359  | ng | 99   |
| 28) Pyrene                     | 19.51 | 202 | 9995  | 0.330  | ng | 99   |
| 30) Benzo(a)anthracene         | 21.25 | 228 | 8797  | 0.379  | ng | 98   |
| 31) Chrysene                   | 21.31 | 228 | 12687 | 0.368  | ng | 100  |
| 32) Bis(2-ethylhexyl)phthalate | 21.19 | 149 | 19959 | 0.516  | ng | 98   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.24 | 276 | 16001 | 0.587  | ng | # 88 |
| 35) Benzo(b)fluoranthene       | 22.95 | 252 | 10192 | 0.298  | ng | 97   |
| 36) Benzo(k)fluoranthene       | 22.99 | 252 | 15030 | 0.303  | ng | 99   |
| 37) Benzo(a)pyrene             | 23.58 | 252 | 13010 | 0.393  | ng | 99   |
| 38) Dibenzo(a,h)anthracene     | 26.26 | 278 | 12581 | 0.413  | ng | 96   |
| 39) Benzo(g,h,i)perylene       | 27.01 | 276 | 14868 | 0.397  | ng | 97   |

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

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QLast Update : Wed Jan 08 18:36:25 2020  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.70 min Scan# 420

Delta R.T. -0.03 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

BNA\_E

ClientSampleId :

PB126655BSD

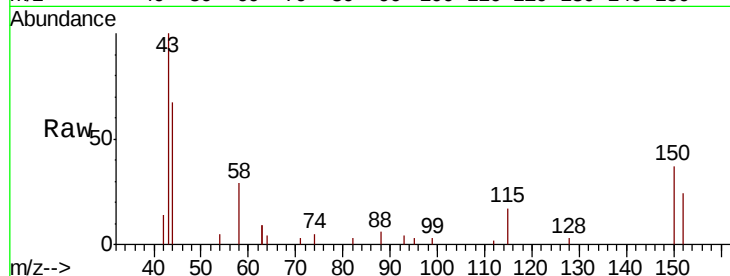
Tot Ion:152 Resp: 1506

Ion Ratio Lower Upper

152 100

150 153.0 120.3 180.5

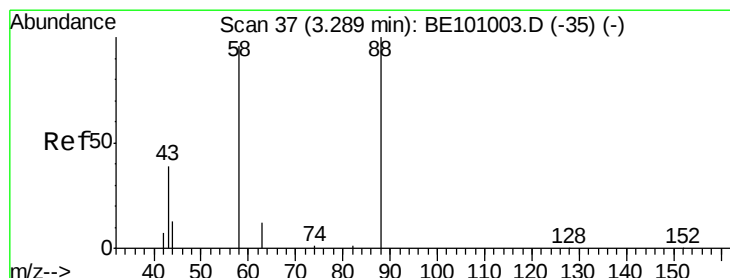
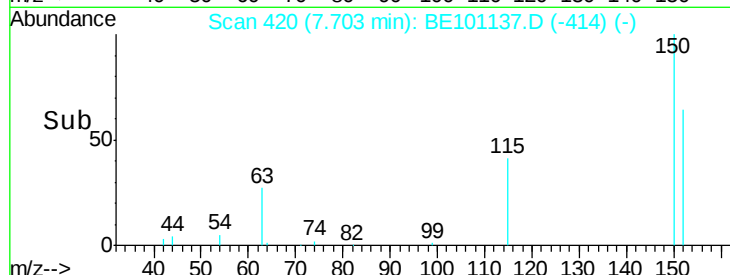
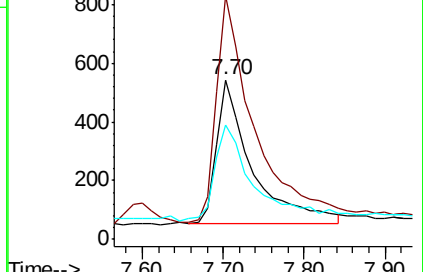
115 71.8 51.7 77.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.340 ng

RT: 3.26 min Scan# 34

Delta R.T. -0.03 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

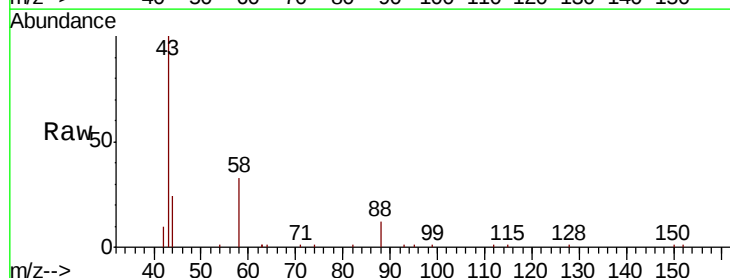
Tgt Ion: 88 Resp: 1302

Ion Ratio Lower Upper

88 100

58 105.4 53.0 79.4#

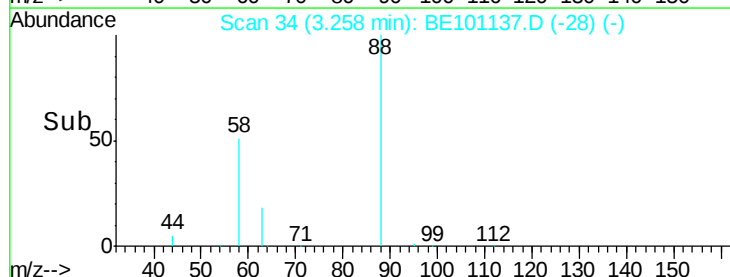
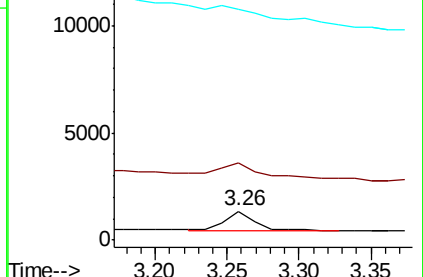
43 0.0 23.4 35.2#



Abundance Ion 88.00 (87.70 to 88.70): BE1

Ion 58.00 (57.70 to 58.70): BE1

Ion 43.00 (42.70 to 43.70): BE1



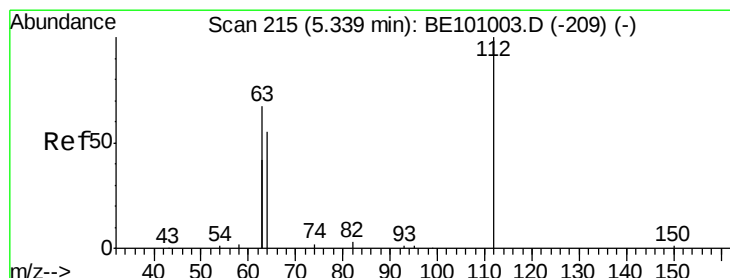
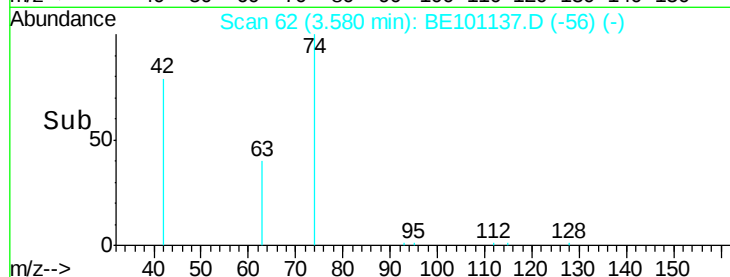
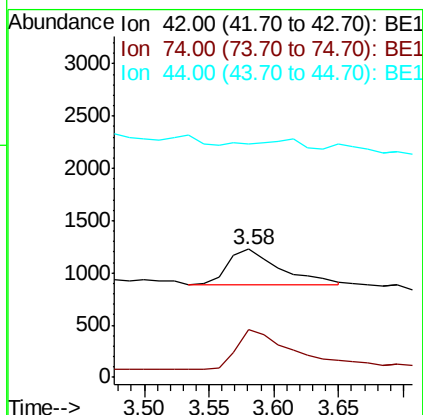
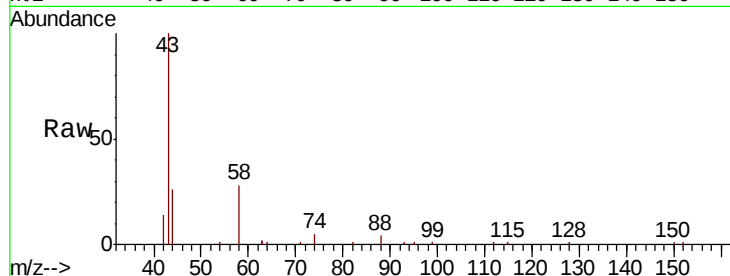


#3

n-Nitrosodimethylamine  
 Concen: 0.460 ng  
 RT: 3.58 min Scan# 62  
 Delta R.T. -0.03 min  
 Lab File: BE101137.D  
 Acq: 7 Feb 2020 14:35

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB126655BSD

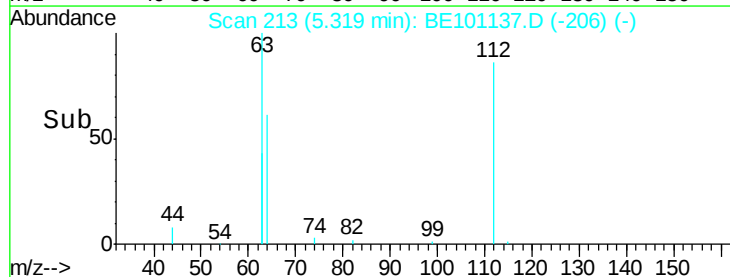
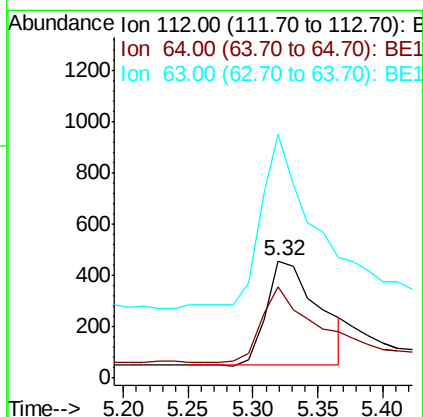
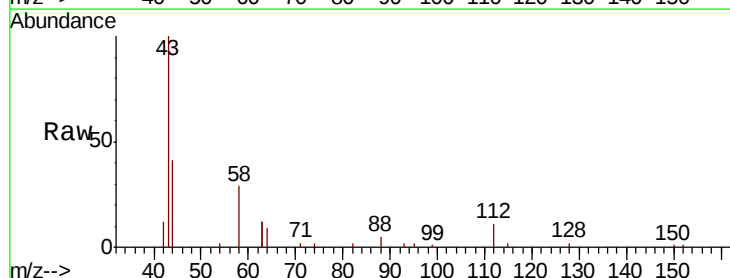
Tot Ion: 42 Resp: 963  
 Ion Ratio Lower Upper  
 42 100  
 74 118.3 105.7 158.5  
 44 0.0 10.0 15.0#



#4

2-Fluorophenol  
 Concen: 0.338 ng  
 RT: 5.32 min Scan# 213  
 Delta R.T. -0.02 min  
 Lab File: BE101137.D  
 Acq: 7 Feb 2020 14:35

Tgt Ion: 112 Resp: 1145  
 Ion Ratio Lower Upper  
 112 100  
 64 70.0 53.6 80.4  
 63 156.8 114.6 172.0





#5

Phenol-d6

Concen: 0.356 ng

RT: 6.92 min Scan# 352

Delta R.T. 0.00 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

BNA\_E

ClientSampleId :

PB126655BSD

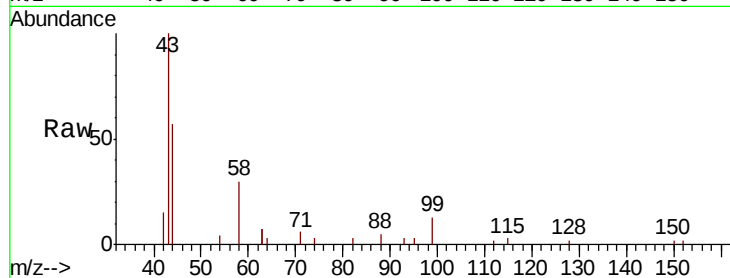
Tot Ion: 99 Resp: 1527

Ion Ratio Lower Upper

99 100

42 31.3 18.3 27.5#

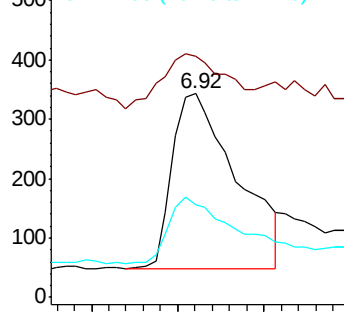
71 38.8 28.0 42.0



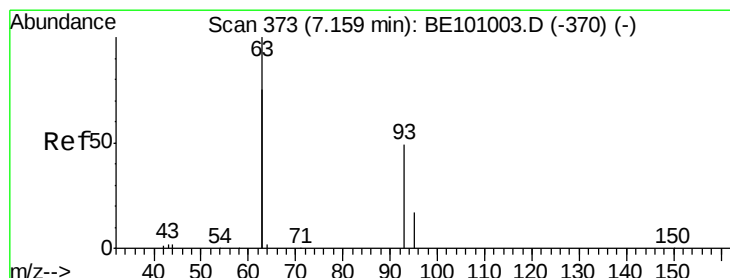
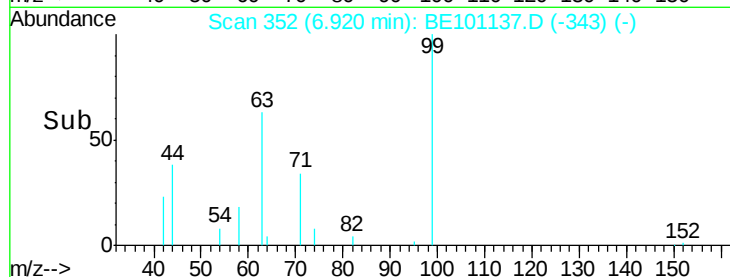
Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1



Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.242 ng

RT: 7.15 min Scan# 372

Delta R.T. -0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

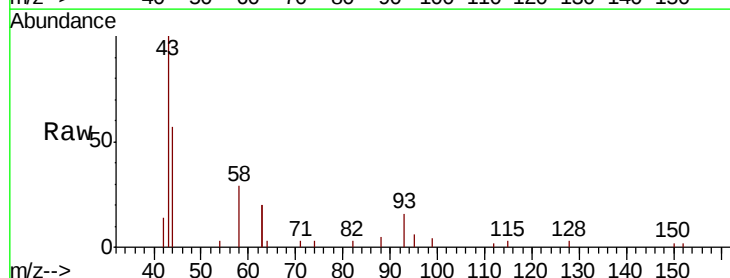
Tgt Ion: 93 Resp: 1238

Ion Ratio Lower Upper

93 100

63 294.8 233.9 350.9

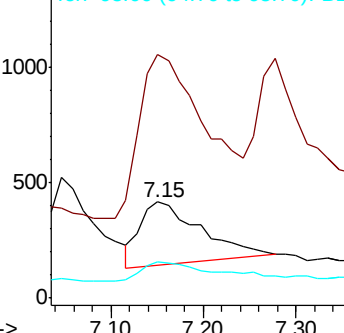
95 36.0 23.5 35.3#



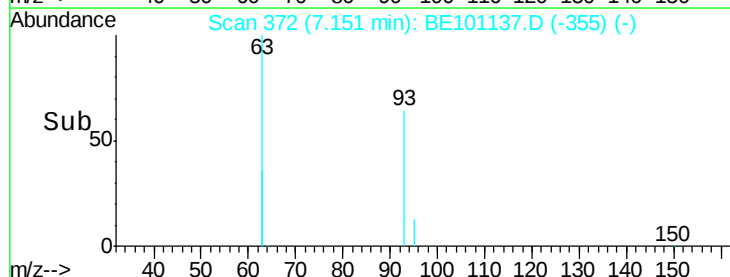
Abundance Ion 93.00 (92.70 to 93.70): BE1

Ion 63.00 (62.70 to 63.70): BE1

Ion 95.00 (94.70 to 95.70): BE1



Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.48 min Scan# 640

Delta R.T. -0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

BNA\_E

ClientSampleId :

PB126655BSD

Tot Ion:136 Resp: 5943

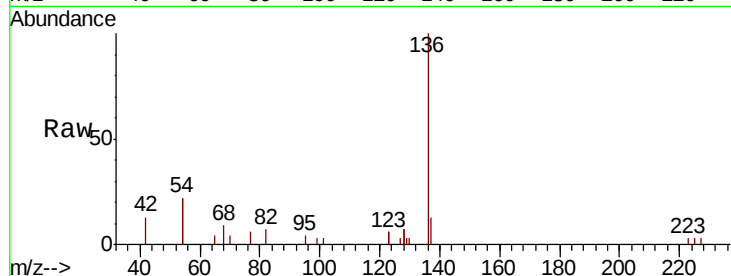
Ion Ratio Lower Upper

136 100

137 13.4 9.3 13.9

54 44.3 36.8 55.2

68 9.3 8.4 12.6

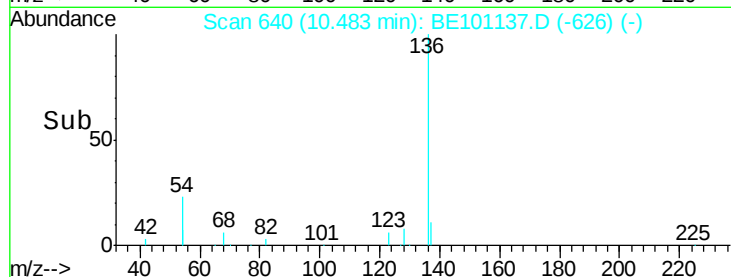
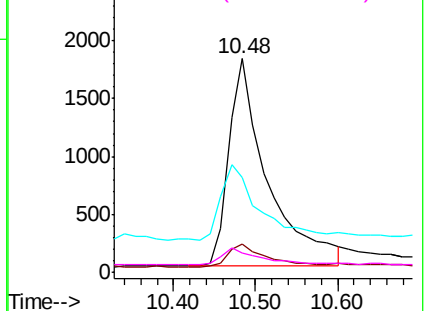


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1



#8

Nitrobenzene-d5

Concen: 0.501 ng

RT: 8.87 min Scan# 516

Delta R.T. -0.00 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

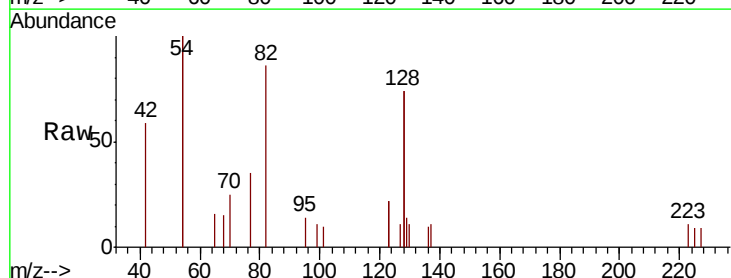
Tgt Ion: 82 Resp: 2130

Ion Ratio Lower Upper

82 100

128 171.7 109.8 164.6#

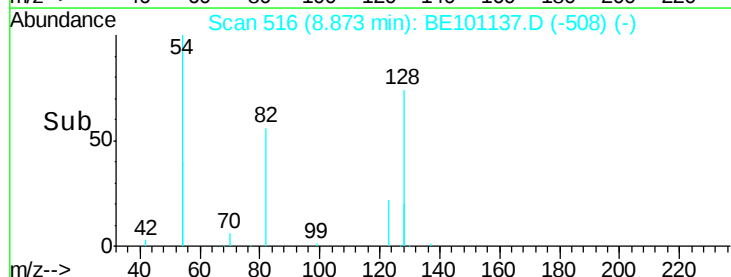
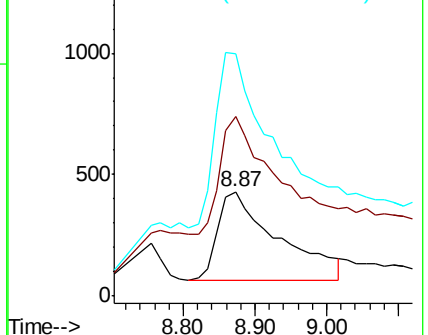
54 231.6 174.5 261.7

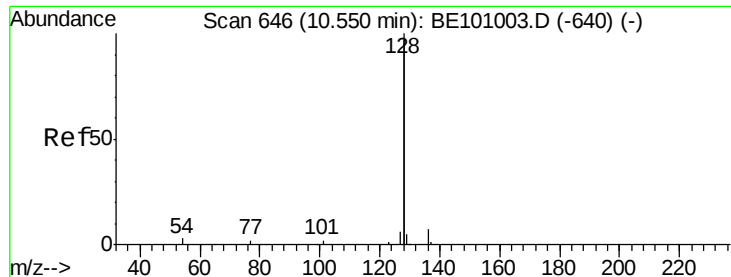


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.377 ng

RT: 10.54 min Scan# 644

Delta R.T. -0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

BNA\_E

ClientSampleId :

PB126655BSD

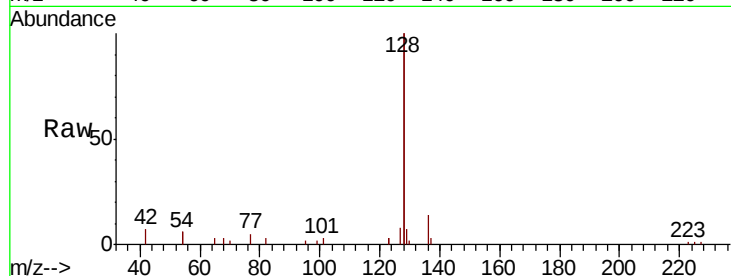
Tot Ion:128 Resp: 24850

Ion Ratio Lower Upper

128 100

129 3.6 2.3 3.5#

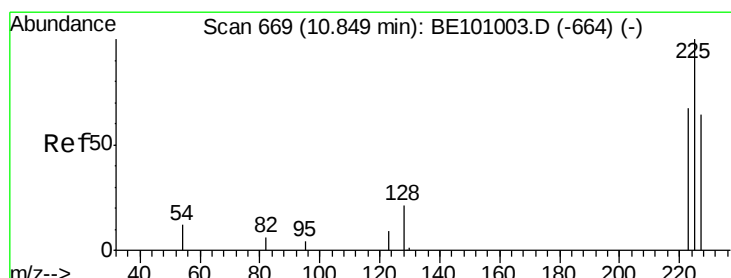
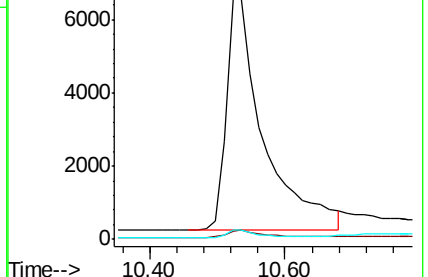
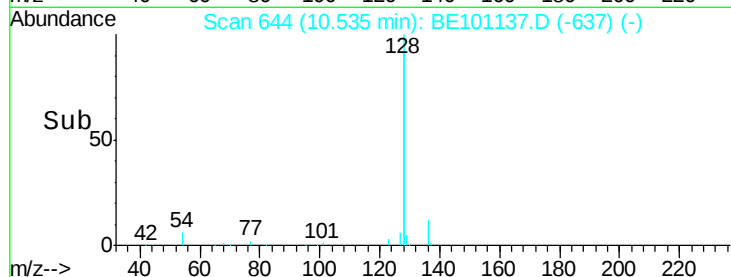
127 3.8 2.7 4.1



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.373 ng

RT: 10.82 min Scan# 666

Delta R.T. -0.03 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

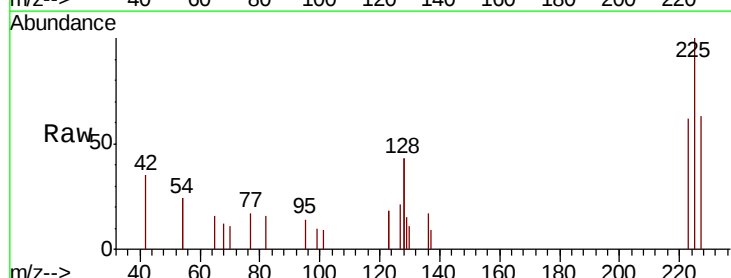
Tgt Ion:225 Resp: 1041

Ion Ratio Lower Upper

225 100

223 64.0 52.2 78.4

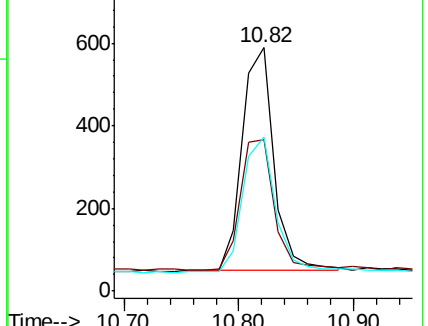
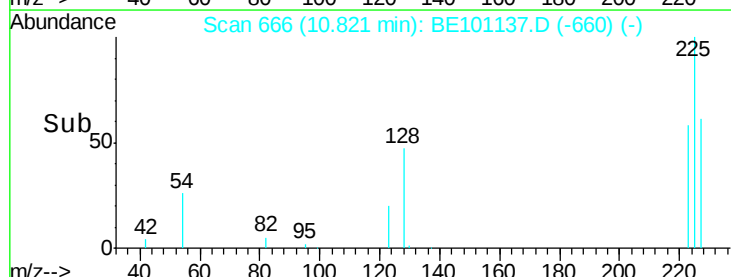
227 62.4 49.9 74.9



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

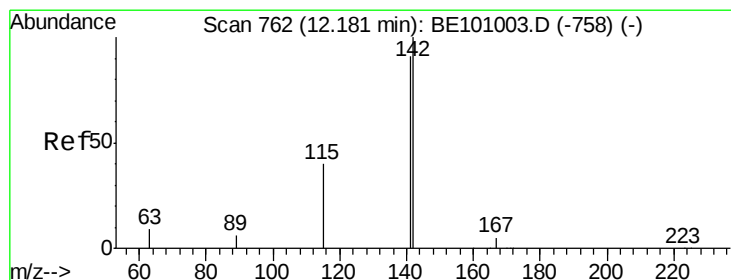
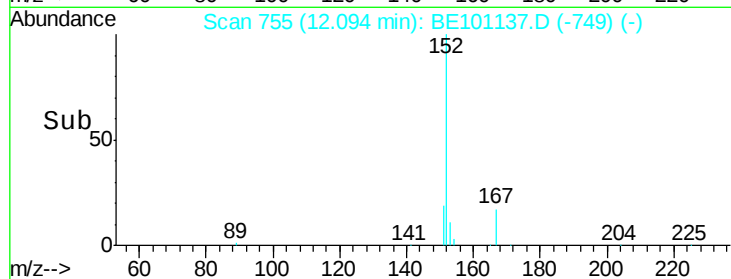
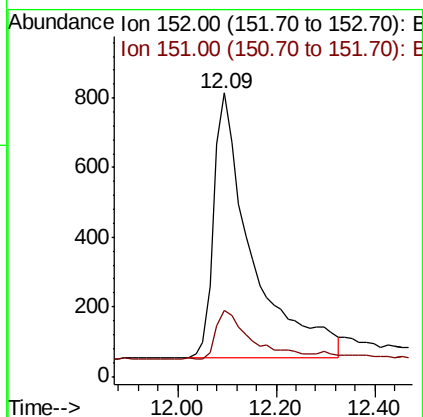
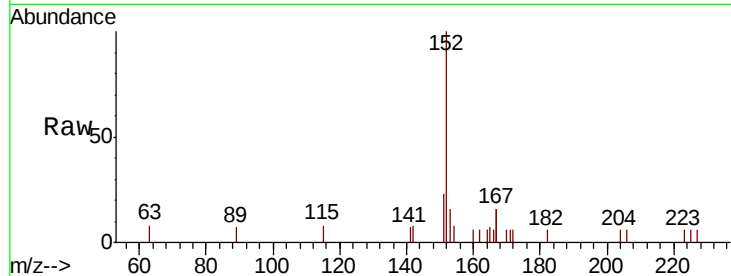




#11  
2-Methylnaphthalene-d10  
Concen: 0.361 ng  
RT: 12.09 min Scan# 755  
Delta R.T. -0.01 min  
Lab File: BE101137.D  
Acq: 7 Feb 2020 14:35

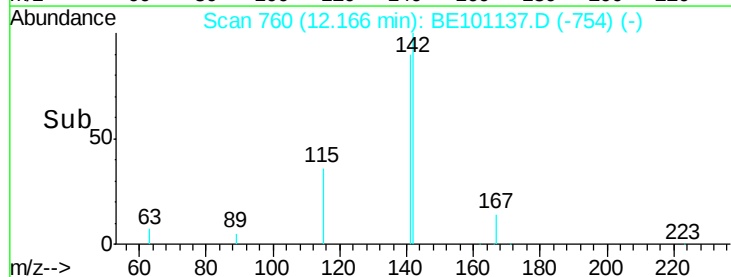
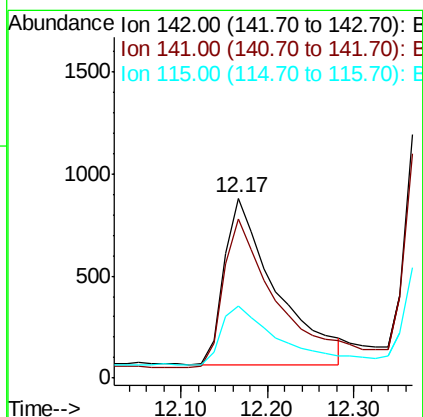
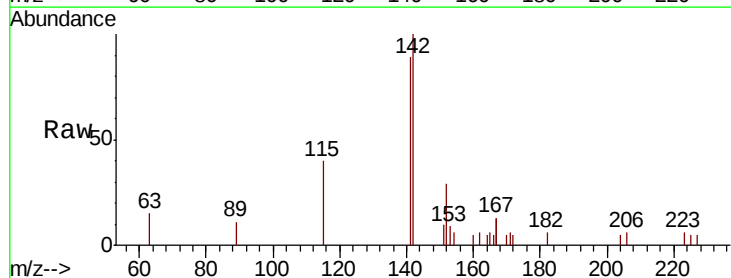
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PB126655BSD

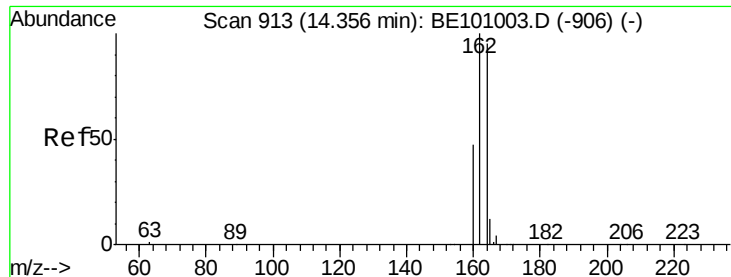
Tot Ion:152 Resp: 4090  
Ion Ratio Lower Upper  
152 100  
151 16.8 15.0 22.6



#12  
2-Methylnaphthalene  
Concen: 0.341 ng  
RT: 12.17 min Scan# 760  
Delta R.T. -0.01 min  
Lab File: BE101137.D  
Acq: 7 Feb 2020 14:35

Tgt Ion:142 Resp: 3408  
Ion Ratio Lower Upper  
142 100  
141 88.8 72.5 108.7  
115 40.4 33.0 49.6

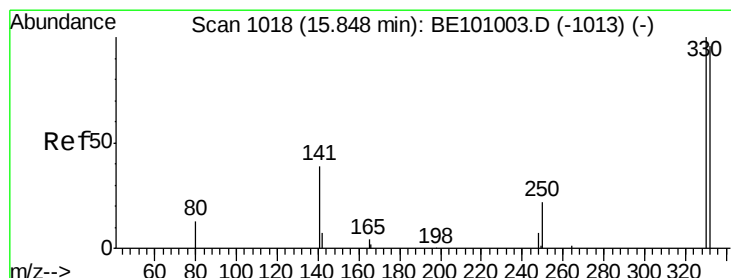
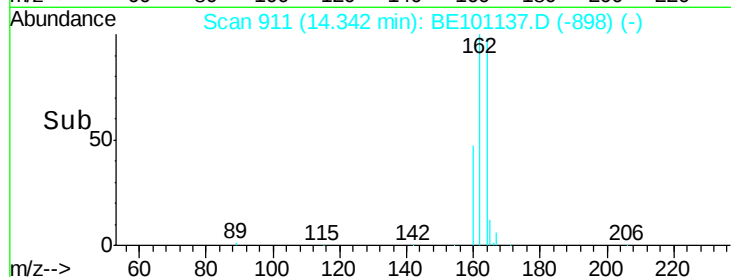
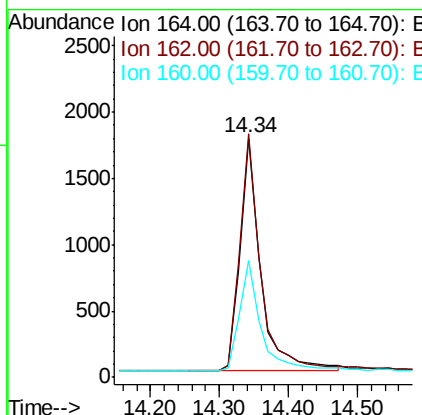
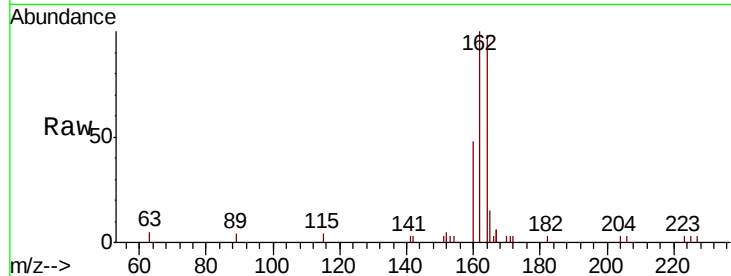




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.34 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: BE101137.D  
Acq: 7 Feb 2020 14:35

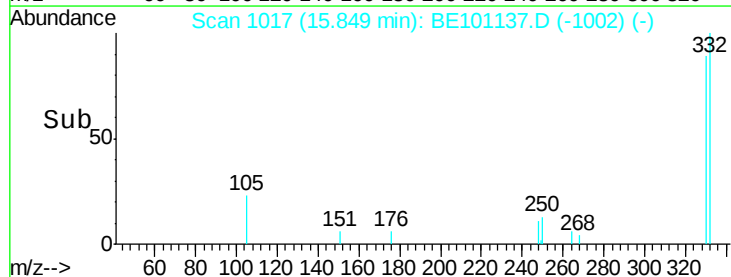
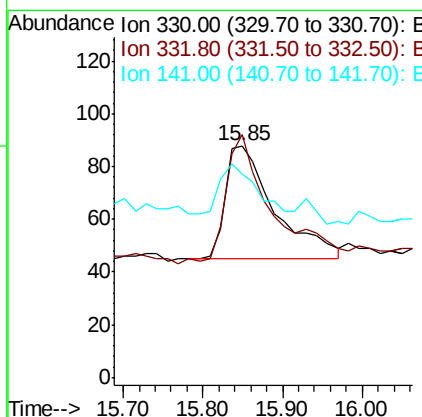
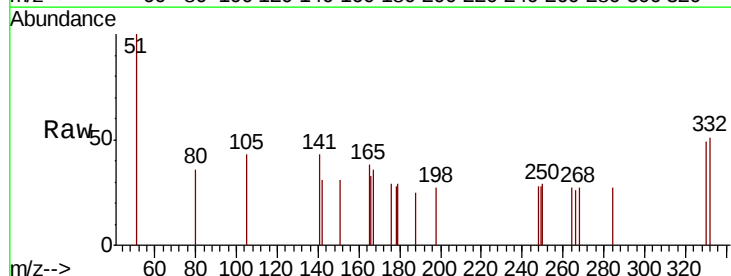
Instrument :  
BNA\_E  
ClientSampleId :  
PB126655BSD

Tot Ion:164 Resp: 3650  
Ion Ratio Lower Upper  
164 100  
162 102.1 84.1 126.1  
160 48.9 40.4 60.6



#14  
2,4,6-Tribromophenol  
Concen: 0.180 ng  
RT: 15.85 min Scan# 1017  
Delta R.T. 0.00 min  
Lab File: BE101137.D  
Acq: 7 Feb 2020 14:35

Tgt Ion:330 Resp: 185  
Ion Ratio Lower Upper  
330 100  
332 111.9 78.4 117.6  
141 30.8 37.0 55.4#

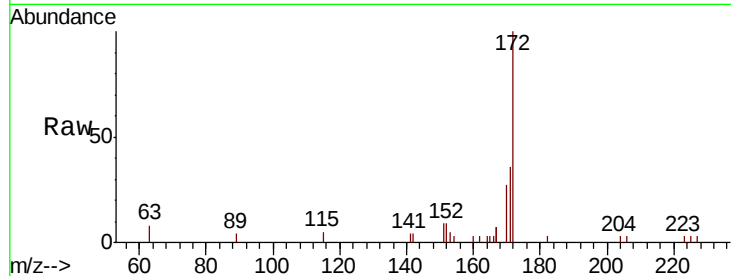




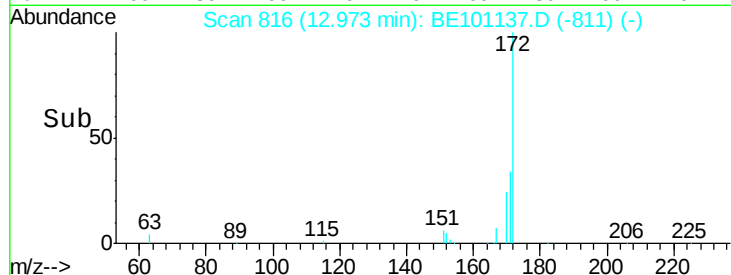
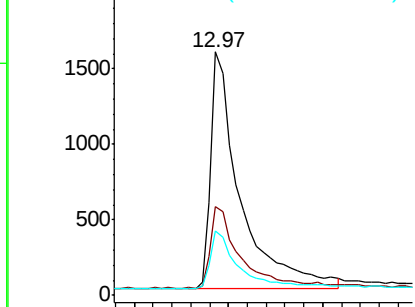
#15  
2-Fluorobiphenyl  
Concen: 0.494 ng  
RT: 12.97 min Scan# 816  
Delta R.T. -0.03 min  
Lab File: BE101137.D  
Acq: 7 Feb 2020 14:35

Instrument :  
BNA\_E  
ClientSampleId :  
PB126655BSD

Tot Ion:172 Resp: 6854  
Ion Ratio Lower Upper  
172 100  
171 36.5 28.2 42.2  
170 26.7 18.9 28.3

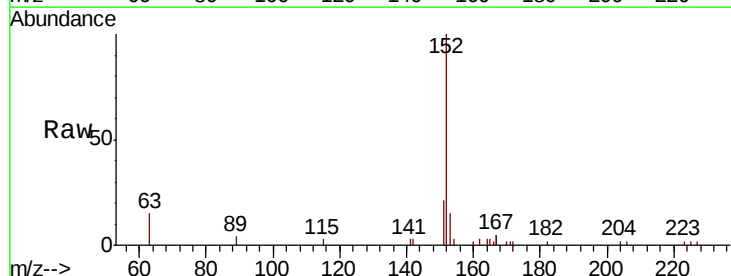


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

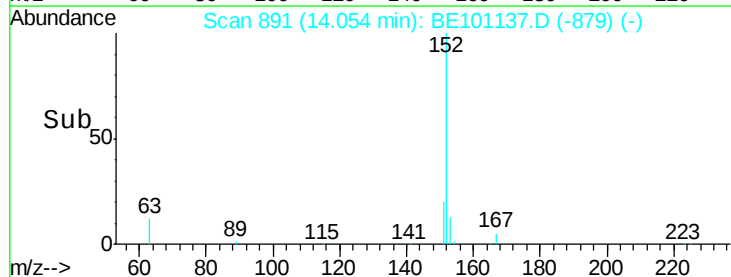
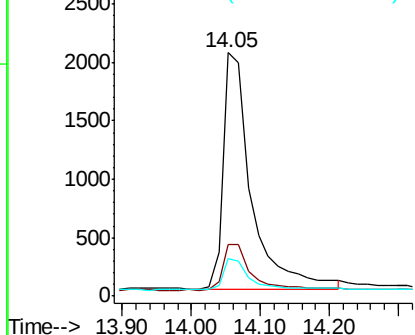


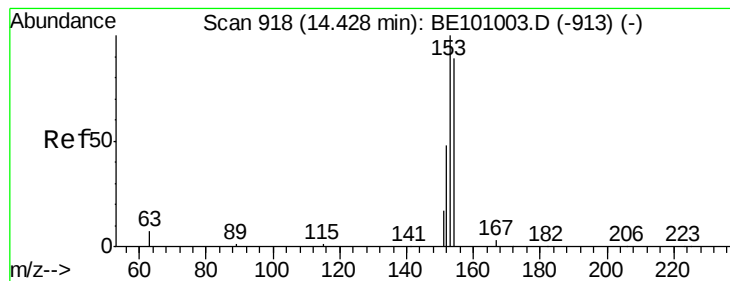
#16  
Acenaphthylene  
Concen: 0.390 ng  
RT: 14.05 min Scan# 891  
Delta R.T. -0.03 min  
Lab File: BE101137.D  
Acq: 7 Feb 2020 14:35

Tgt Ion:152 Resp: 5793  
Ion Ratio Lower Upper  
152 100  
151 19.8 15.5 23.3  
153 12.4 10.4 15.6



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





#17

Acenaphthene

Concen: 0.344 ng

RT: 14.40 min Scan# 915

Delta R.T. -0.03 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

BNA\_E

ClientSampleId :

PB126655BSD

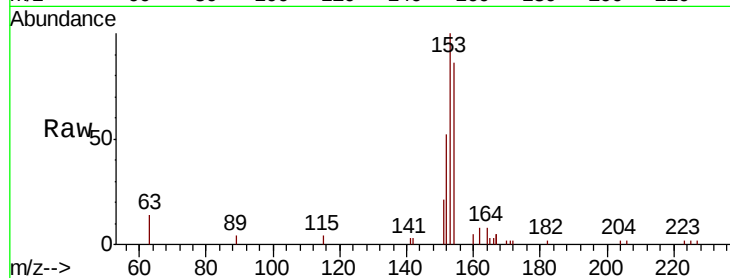
Tot Ion:154 Resp: 3665

Ion Ratio Lower Upper

154 100

153 116.7 93.6 140.4

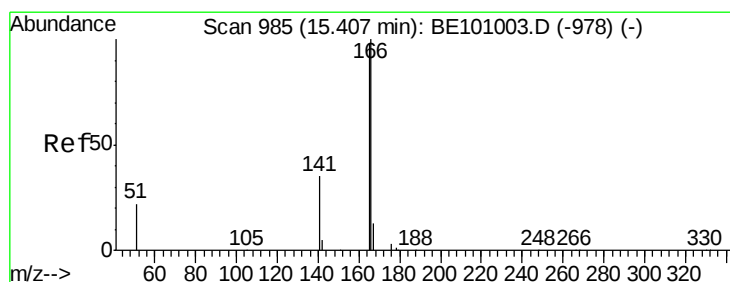
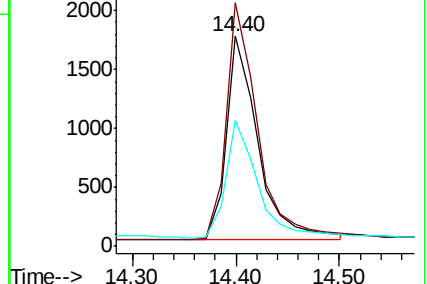
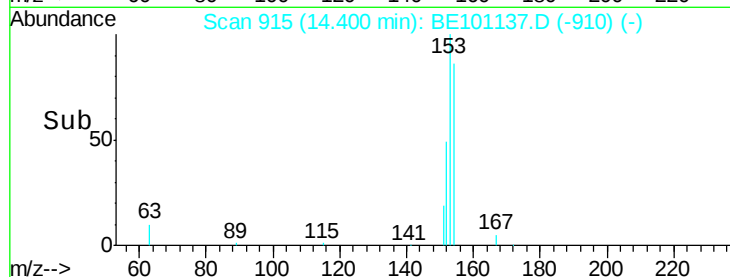
152 58.5 46.3 69.5



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: 0.333 ng

RT: 15.38 min Scan# 982

Delta R.T. -0.03 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

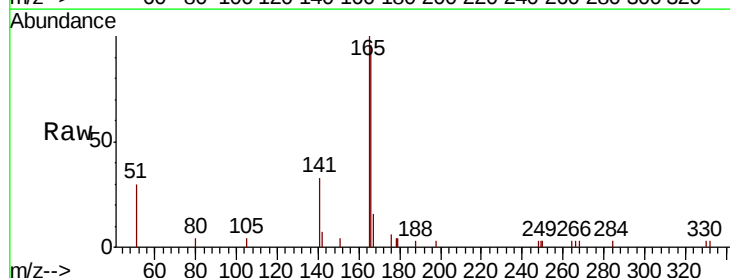
Tgt Ion:166 Resp: 4484

Ion Ratio Lower Upper

166 100

165 99.0 79.8 119.8

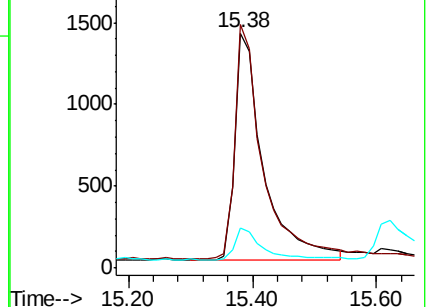
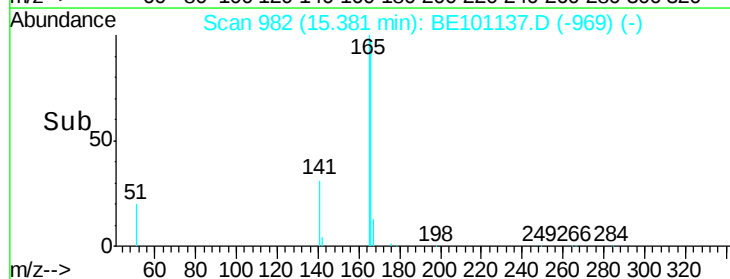
167 13.8 11.0 16.6



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.08 min Scan# 1109

Delta R.T. -0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

BNA\_E

ClientSampleId :

PB126655BSD

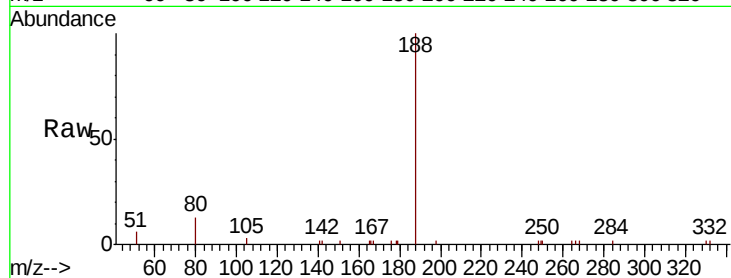
Tot Ion:188 Resp: 7830

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

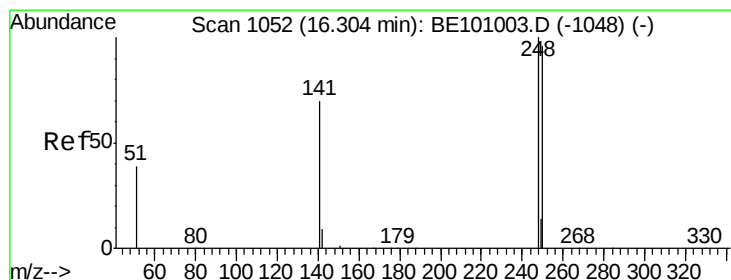
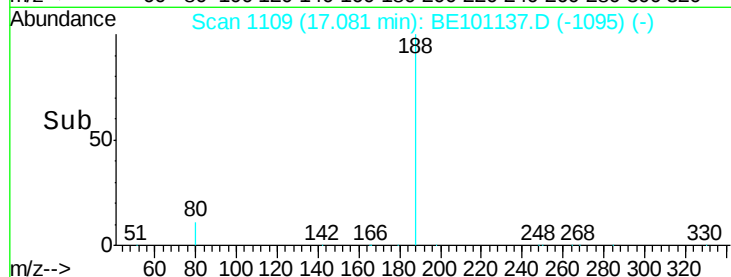
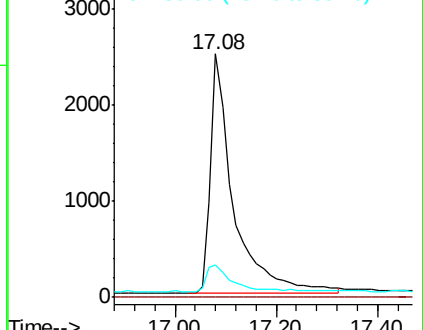
80 13.4 10.8 16.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#20

4-Bromophenyl-phenylether

Concen: 0.373 ng

RT: 16.29 min Scan# 1050

Delta R.T. -0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

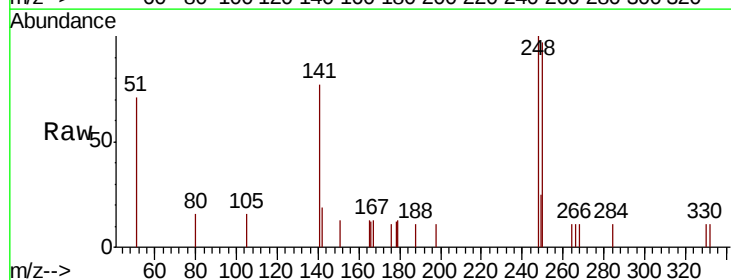
Tgt Ion:248 Resp: 1424

Ion Ratio Lower Upper

248 100

250 96.8 76.6 115.0

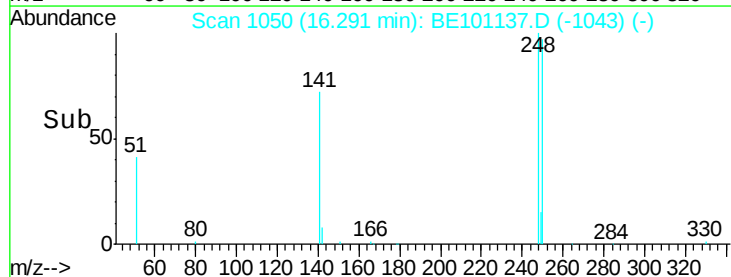
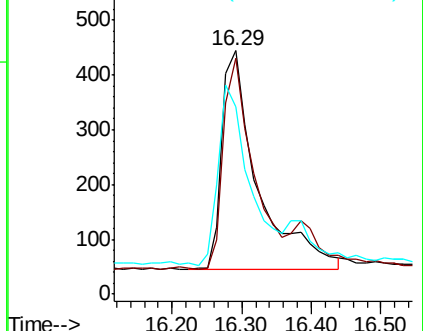
141 77.3 57.7 86.5



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.364 ng

RT: 16.38 min Scan# 1057

Delta R.T. -0.03 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

BNA\_E

ClientSampleId :

PB126655BSD

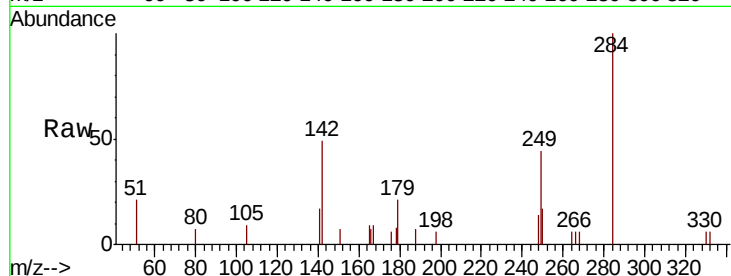
Tot Ion:284 Resp: 1525

Ion Ratio Lower Upper

284 100

142 39.5 34.0 51.0

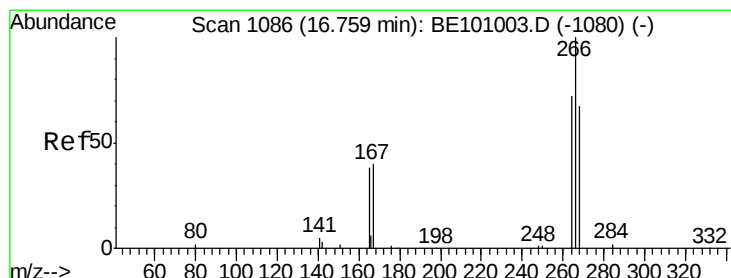
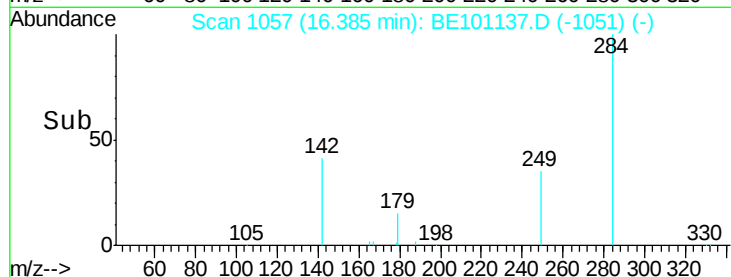
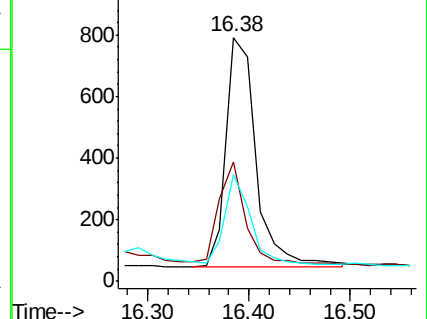
249 33.8 28.2 42.4



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.265 ng

RT: 16.77 min Scan# 1086

Delta R.T. 0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

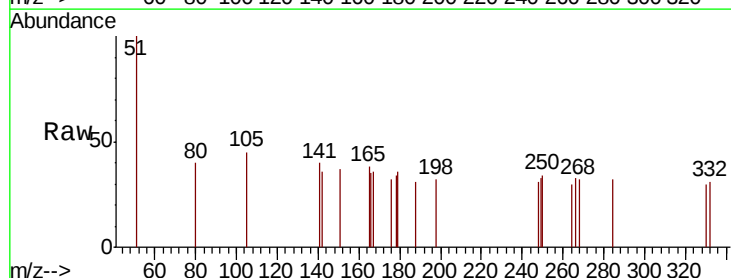
Tgt Ion:266 Resp: 22

Ion Ratio Lower Upper

266 100

264 90.2 61.0 91.4

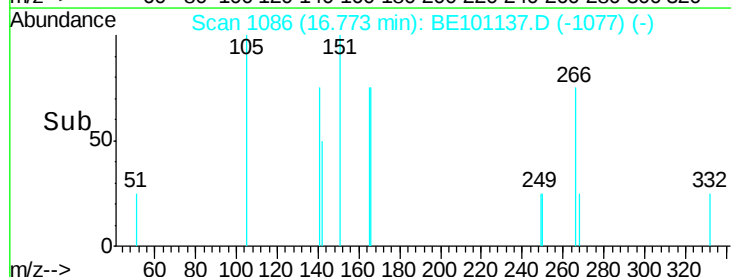
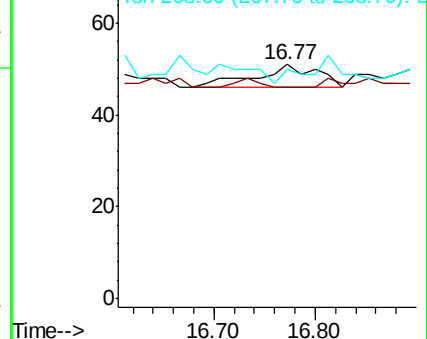
268 98.0 58.5 87.7#



Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.324 ng

RT: 17.12 min Scan# 1112

Delta R.T. -0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

BNA\_E

ClientSampleId :

PB126655BSD

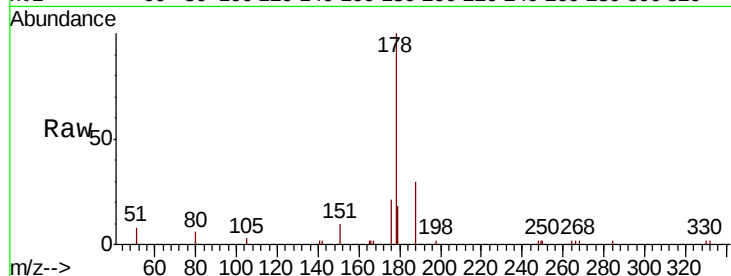
Tot Ion:178 Resp: 6935

Ion Ratio Lower Upper

178 100

176 18.9 15.7 23.5

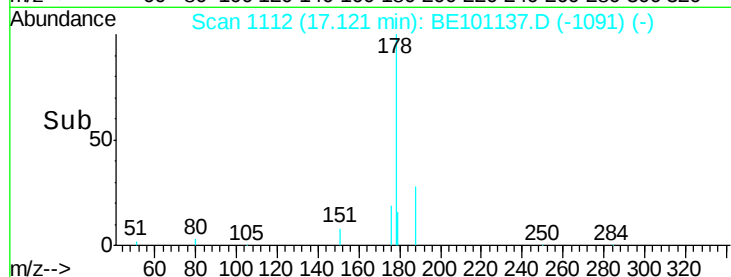
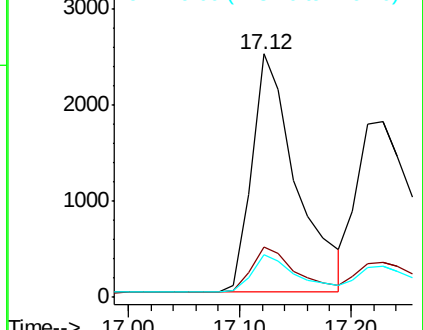
179 15.9 12.0 18.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.388 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

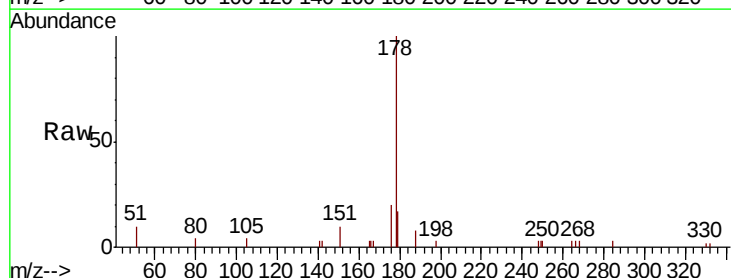
Tgt Ion:178 Resp: 7836

Ion Ratio Lower Upper

178 100

176 19.0 14.8 22.2

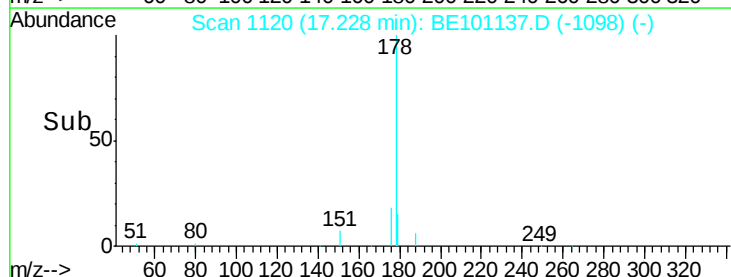
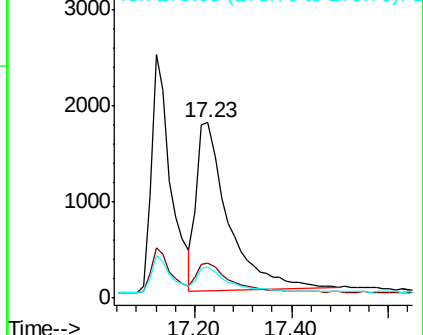
179 15.4 12.4 18.6

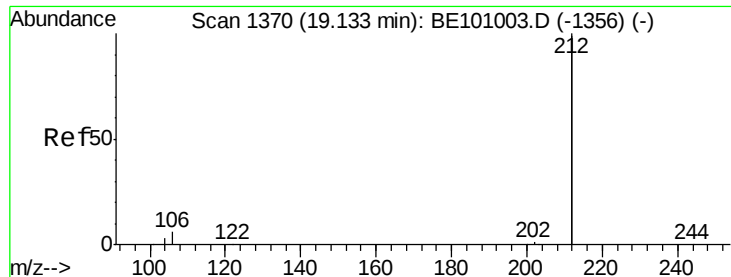


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

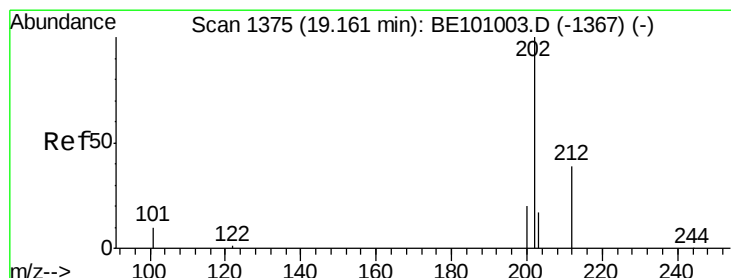
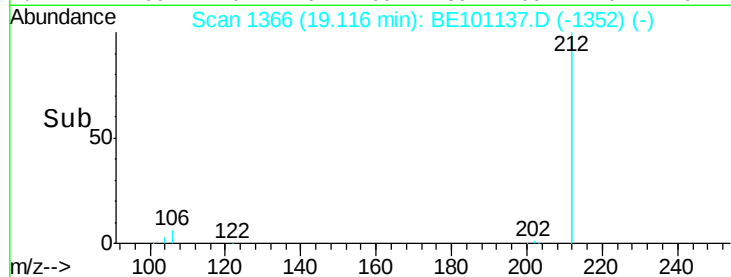
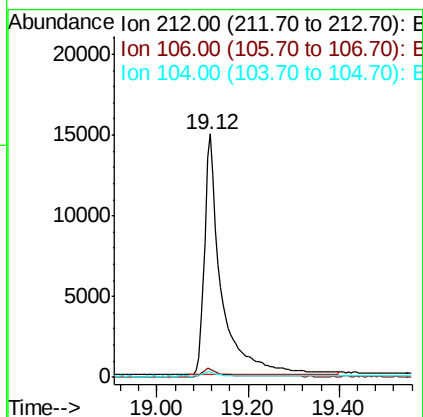
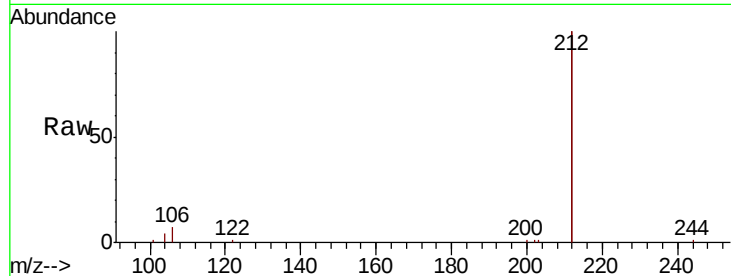




#25  
 Fluoranthene-d10  
 Concen: 0.349 ng  
 RT: 19.12 min Scan# 1366  
 Delta R.T. -0.02 min  
 Lab File: BE101137.D  
 Acq: 7 Feb 2020 14:35

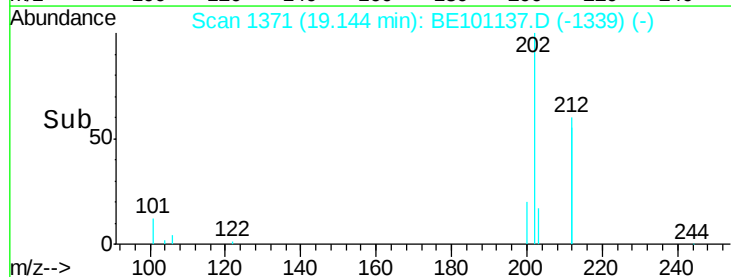
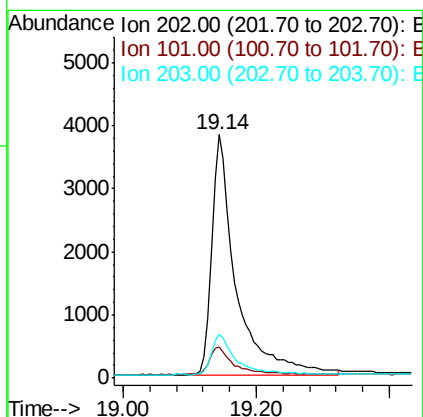
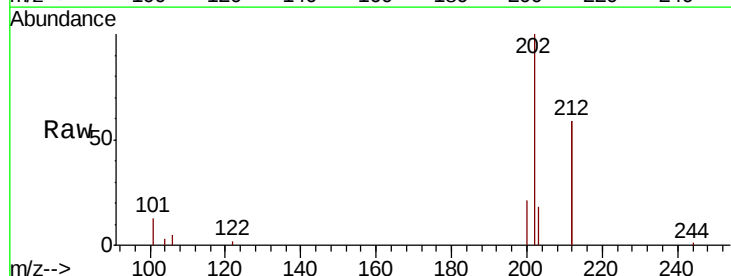
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB126655BSD

Tot Ion:212 Resp: 38001  
 Ion Ratio Lower Upper  
 212 100  
 106 3.3 2.6 3.8  
 104 1.7 1.4 2.0



#26  
 Fluoranthene  
 Concen: 0.359 ng  
 RT: 19.14 min Scan# 1371  
 Delta R.T. -0.02 min  
 Lab File: BE101137.D  
 Acq: 7 Feb 2020 14:35

Tgt Ion:202 Resp: 9603  
 Ion Ratio Lower Upper  
 202 100  
 101 11.5 9.6 14.4  
 203 17.1 13.8 20.6





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.27 min Scan# 1622

Delta R.T. -0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

BNA\_E

ClientSampleId :

PB126655BSD

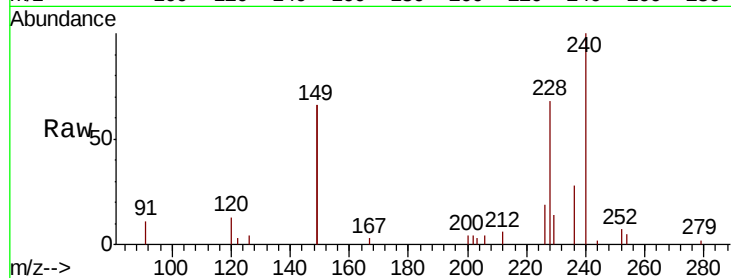
Tot Ion:240 Resp: 8137

Ion Ratio Lower Upper

240 100

120 12.7 8.6 13.0

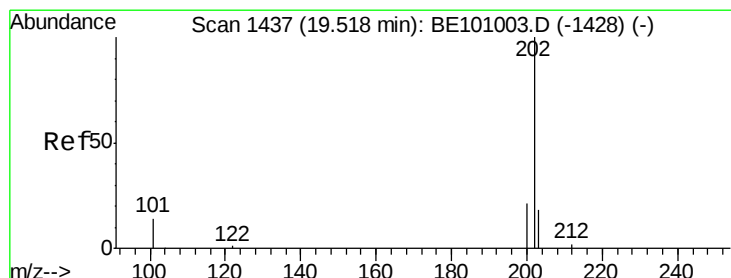
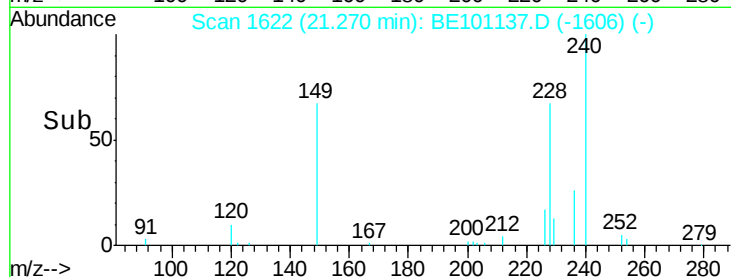
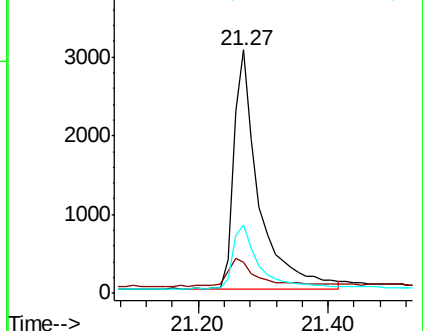
236 27.8 22.2 33.4



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: 0.330 ng

RT: 19.51 min Scan# 1434

Delta R.T. -0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

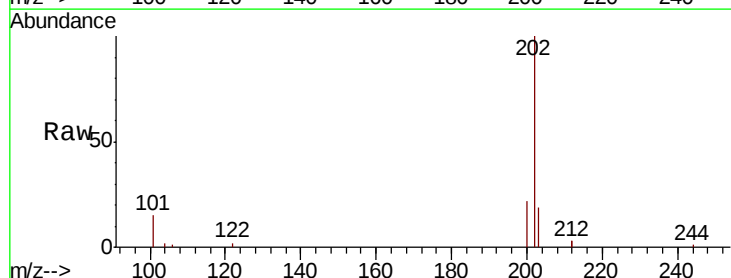
Tgt Ion:202 Resp: 9995

Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

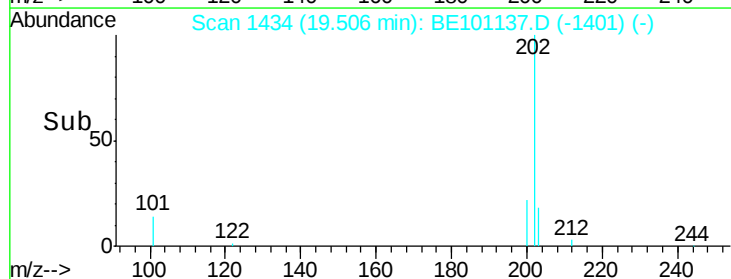
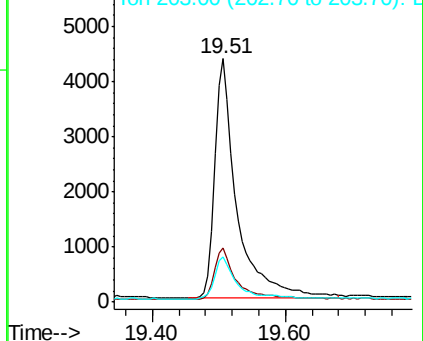
203 17.7 13.8 20.6

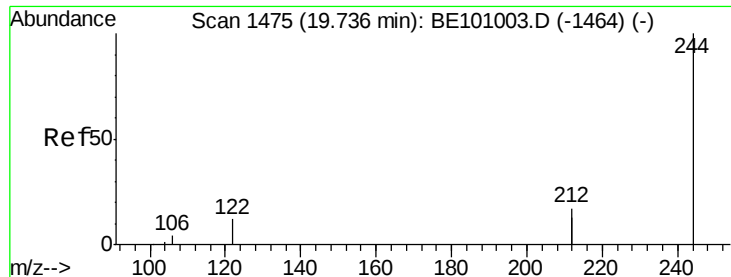


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.457 ng

RT: 19.72 min Scan# 1472

Delta R.T. -0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

BNA\_E

ClientSampleId :

PB126655BSD

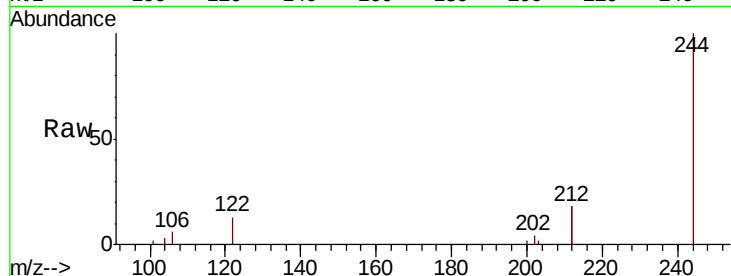
Tot Ion:244 Resp: 9136

Ion Ratio Lower Upper

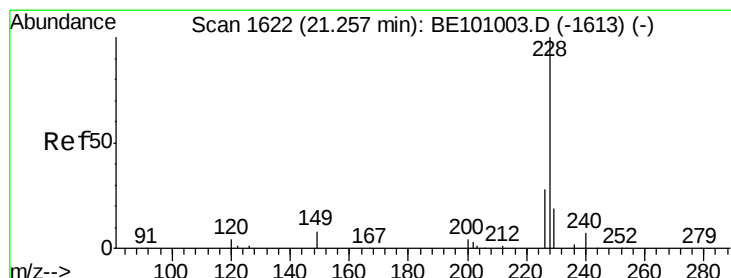
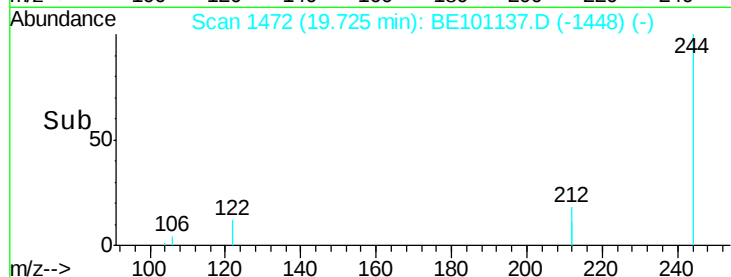
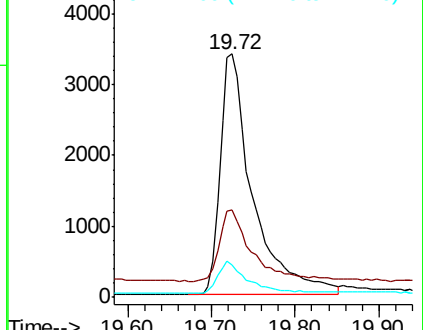
244 100

212 35.8 27.2 40.8

122 13.2 9.8 14.8



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: 0.379 ng

RT: 21.25 min Scan# 1620

Delta R.T. -0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

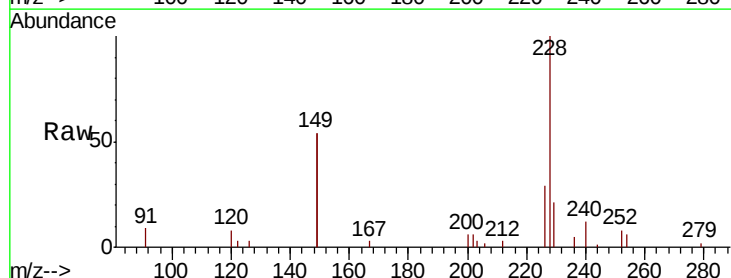
Tgt Ion:228 Resp: 8797

Ion Ratio Lower Upper

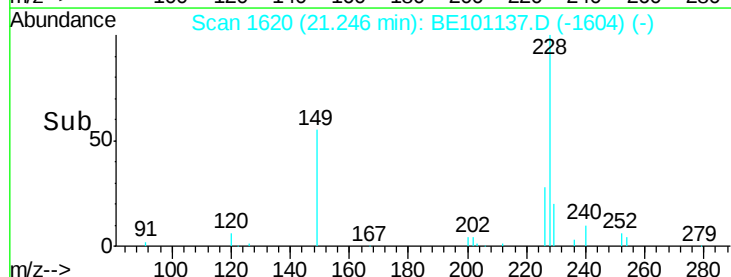
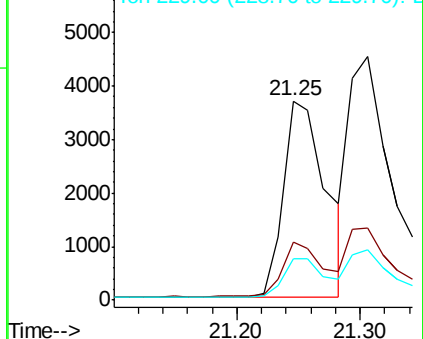
228 100

226 28.8 22.7 34.1

229 20.9 15.5 23.3



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: 0.368 ng

RT: 21.31 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

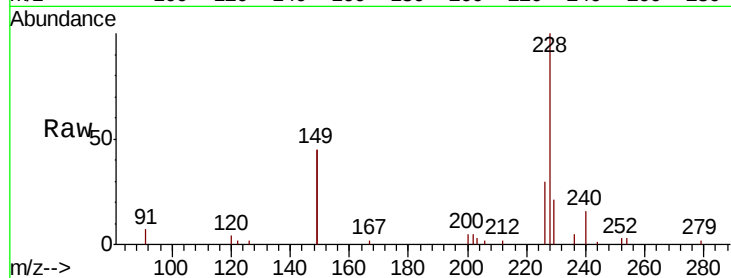
BNA\_E

ClientSampleId :

PB126655BSD

Tot Ion:228 Resp: 12687

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.6  | 23.5  | 35.3  |
| 229 | 20.7  | 16.7  | 25.1  |

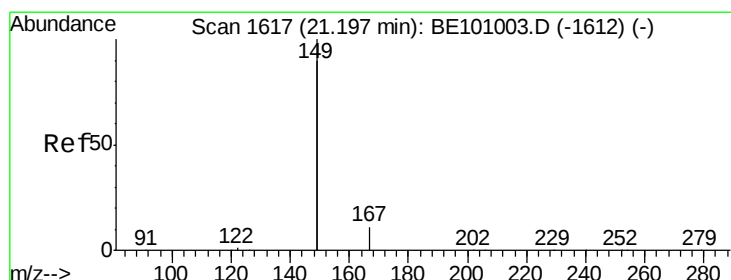
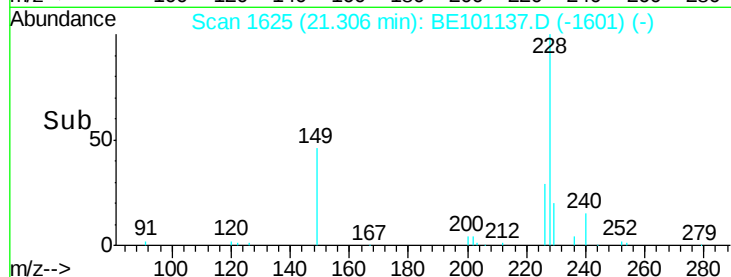
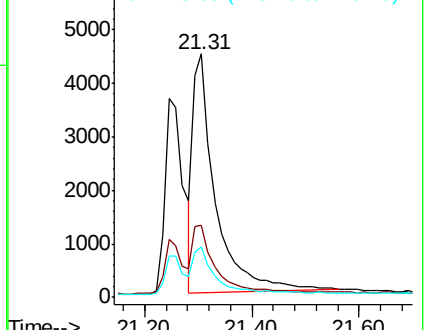


Abundance

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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.516 ng

RT: 21.19 min Scan# 1615

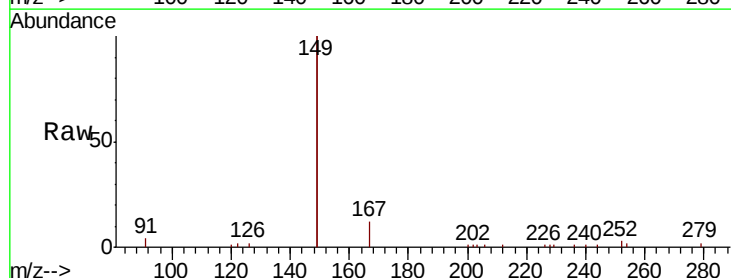
Delta R.T. -0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Tgt Ion:149 Resp: 19959

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 5.7   | 5.2   | 7.8   |
| 279 | 0.8   | 0.8   | 1.2   |

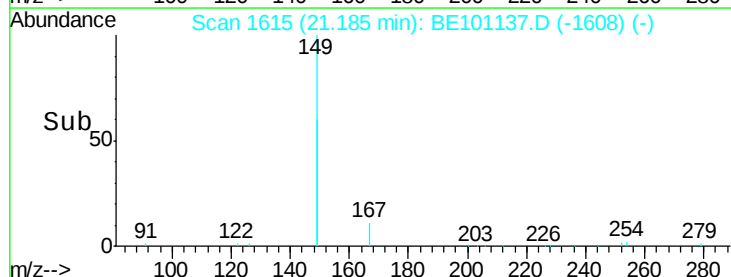
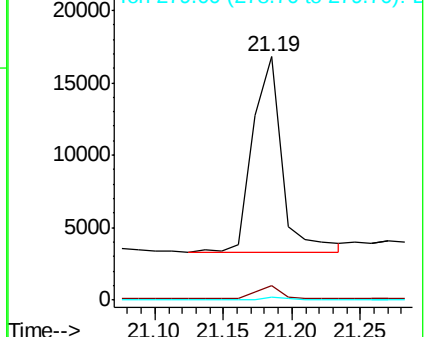


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

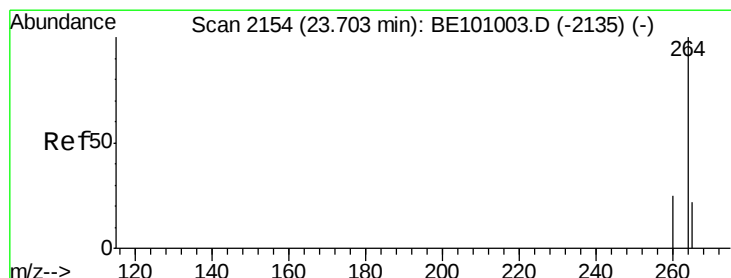
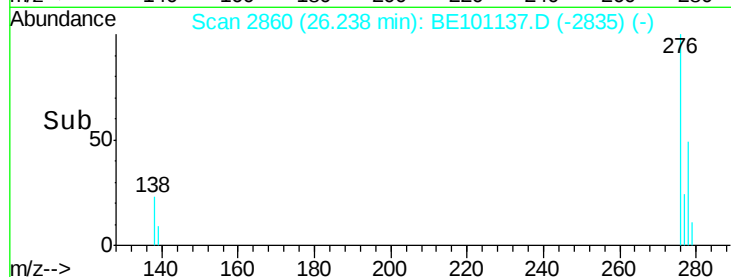
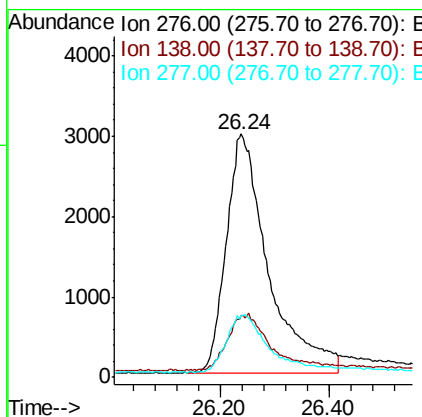
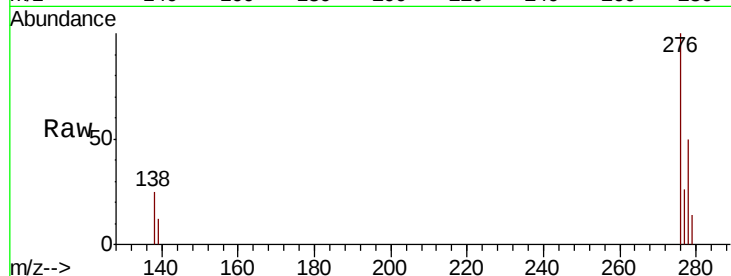




#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.587 ng  
RT: 26.24 min Scan# 2860  
Delta R.T. -0.01 min  
Lab File: BE101137.D  
Acq: 7 Feb 2020 14:35

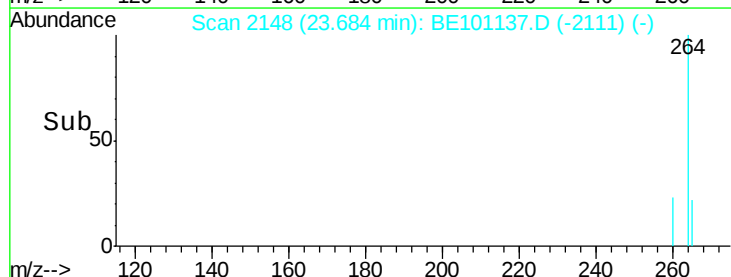
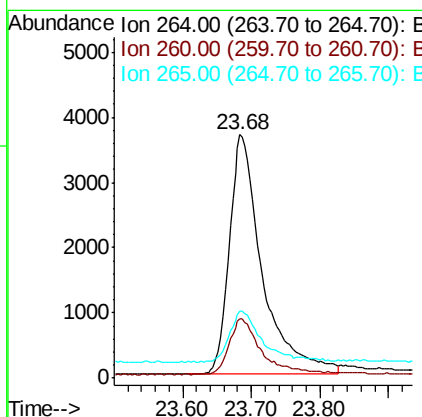
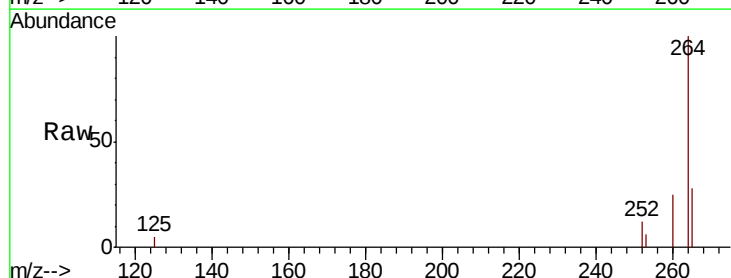
Instrument :  
BNA\_E  
ClientSampleId :  
PB126655BSD

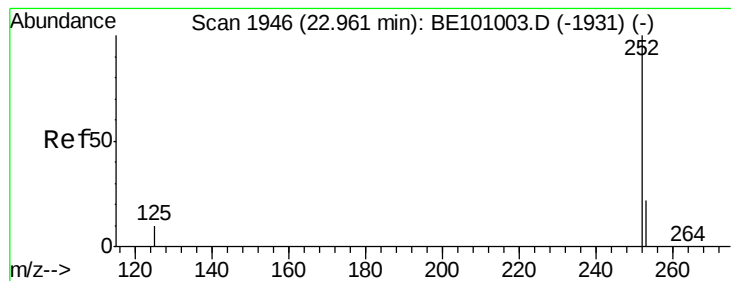
Tot Ion:276 Resp: 16001  
Ion Ratio Lower Upper  
276 100  
138 9.9 16.1 24.1#  
277 23.6 18.1 27.1



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.68 min Scan# 2148  
Delta R.T. -0.02 min  
Lab File: BE101137.D  
Acq: 7 Feb 2020 14:35

Tgt Ion:264 Resp: 12204  
Ion Ratio Lower Upper  
264 100  
260 24.5 20.3 30.5  
265 27.6 27.0 40.4





#35

Benzo(b)fluoranthene

Concen: 0.298 ng

RT: 22.95 min Scan# 1941

Delta R.T. -0.02 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

BNA\_E

ClientSampleId :

PB126655BSD

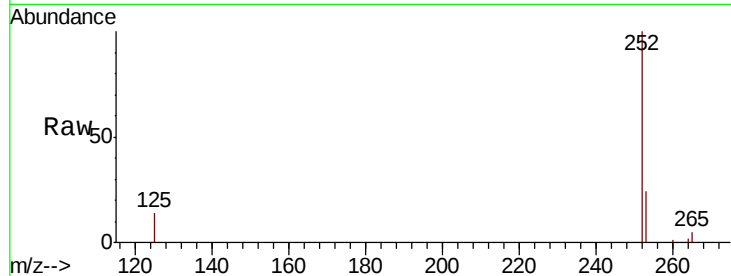
Tot Ion:252 Resp: 10192

Ion Ratio Lower Upper

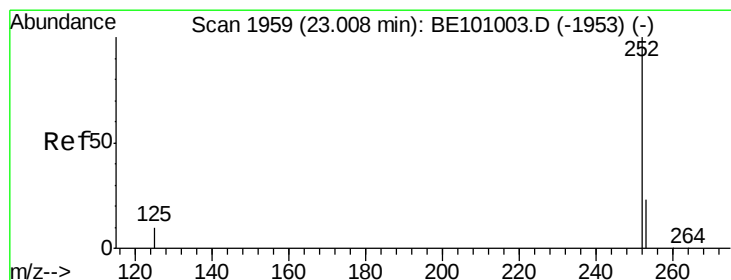
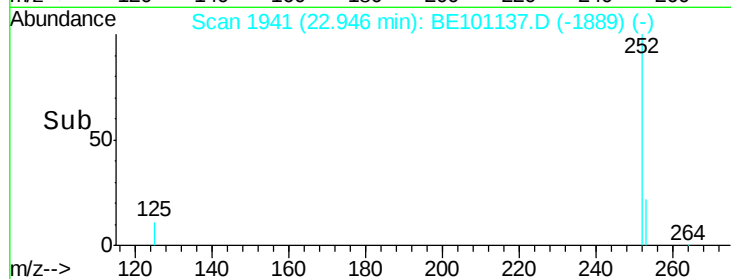
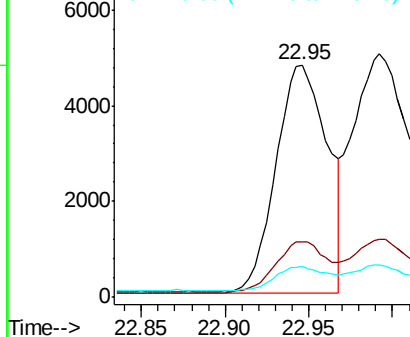
252 100

253 23.9 18.5 27.7

125 13.6 9.5 14.3



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.303 ng

RT: 22.99 min Scan# 1954

Delta R.T. -0.02 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

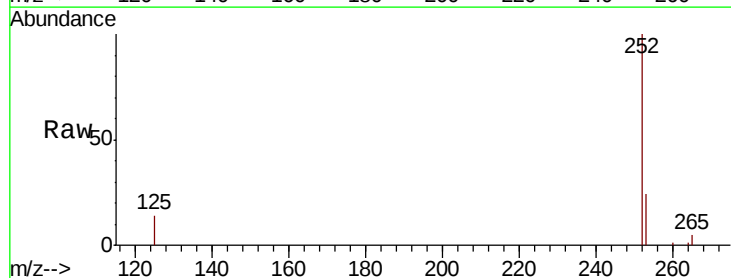
Tgt Ion:252 Resp: 15030

Ion Ratio Lower Upper

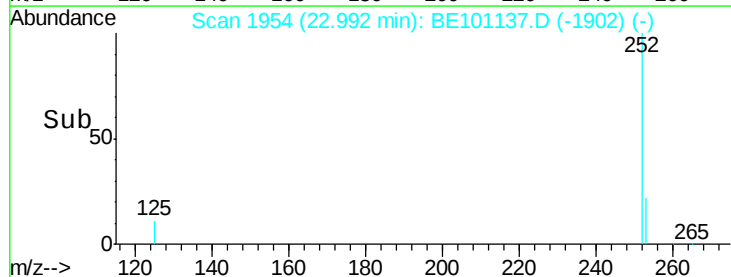
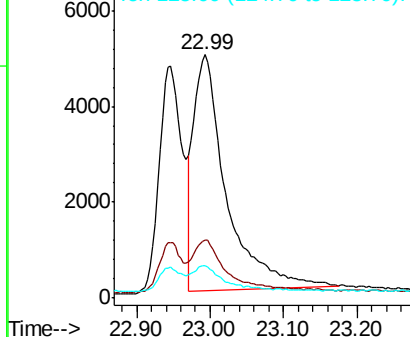
252 100

253 24.0 18.9 28.3

125 13.6 10.1 15.1



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.393 ng

RT: 23.58 min Scan# 2119

Delta R.T. -0.01 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

BNA\_E

ClientSampleId :

PB126655BSD

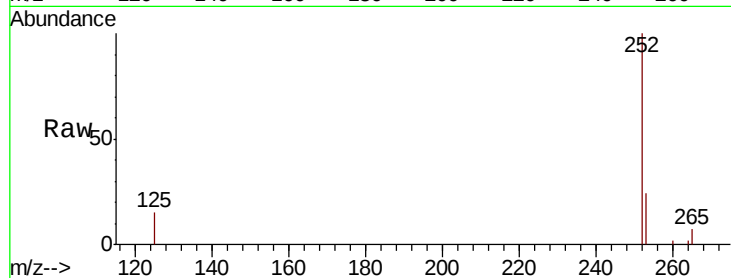
Tot Ion:252 Resp: 13010

Ion Ratio Lower Upper

252 100

253 24.4 19.4 29.2

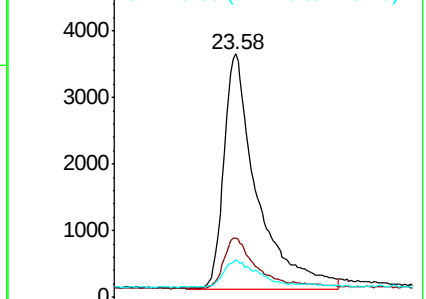
125 15.4 11.8 17.6



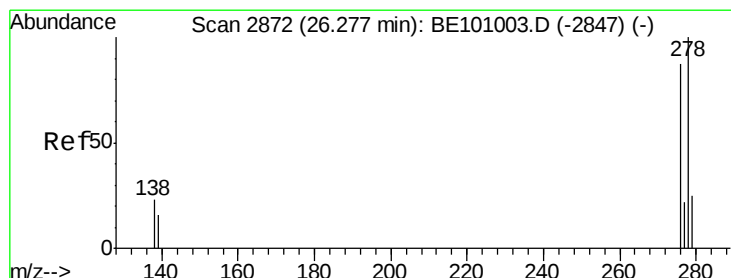
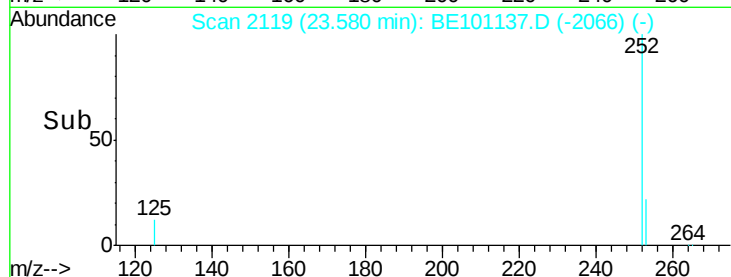
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time--> 23.40 23.60 23.80



#38

Dibenzo(a,h)anthracene

Concen: 0.413 ng

RT: 26.26 min Scan# 2865

Delta R.T. -0.02 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

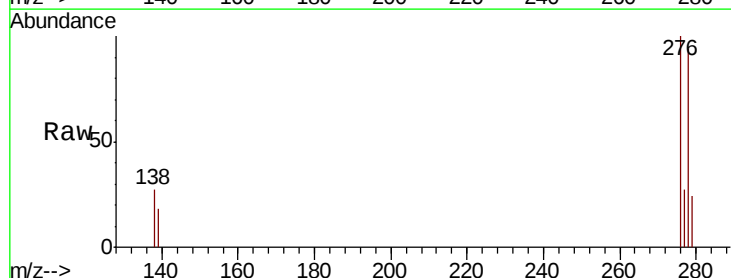
Tgt Ion:278 Resp: 12581

Ion Ratio Lower Upper

278 100

139 19.1 15.0 22.4

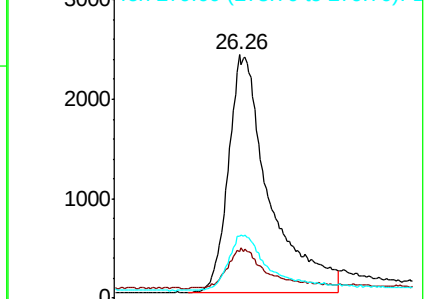
279 25.2 22.6 33.8



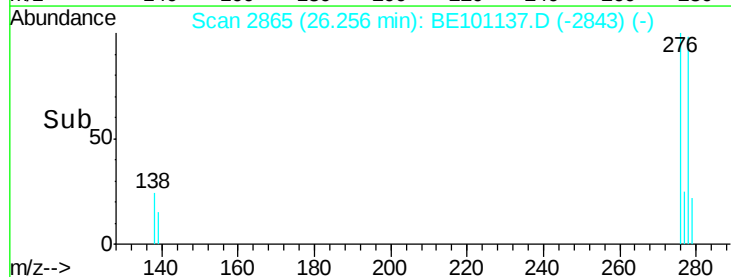
Abundance Ion 278.00 (277.70 to 278.70): E

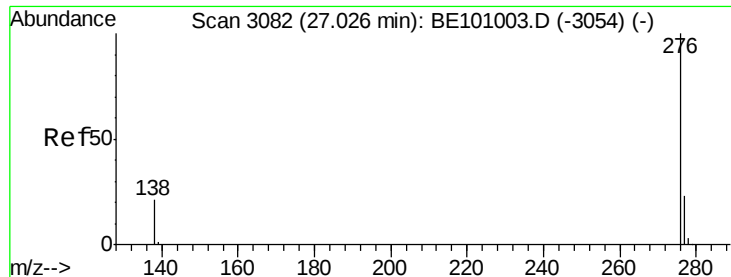
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time--> 26.20 26.40





#39

Benzo(a,h,i)perylene

Concen: 0.397 ng

RT: 27.01 min Scan# 3076

Delta R.T. -0.02 min

Lab File: BE101137.D

Acq: 7 Feb 2020 14:35

Instrument :

BNA\_E

ClientSampleId :

PB126655BSD

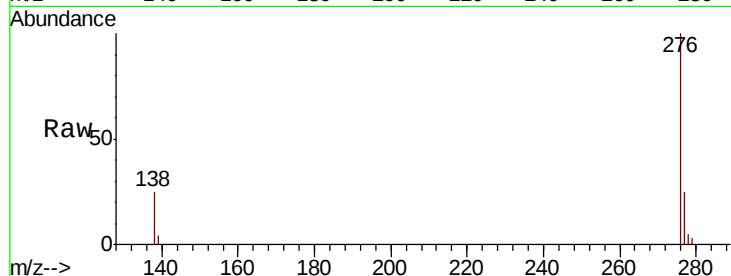
Tot Ion: 276 Resp: 14868

Ion Ratio Lower Upper

276 100

277 25.2 19.4 29.2

138 25.0 17.9 26.9



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

