

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE071417\  
 Data File : BE093470.D  
 Acq On : 14 Jul 2017 14:09  
 Operator : SJ/JU  
 Sample : I4153-05  
 Misc : L00 0.2 PPM  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Jul 17 01:27:35 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE070217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 03 06:40:23 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.93  | 152  | 4383     | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.72 | 136  | 22704    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.54 | 164  | 15400    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.27 | 188  | 25660    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.42 | 240  | 40615    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.93 | 264  | 34272    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.53  | 112  | 2227     | 0.17 | ng    | 0.00     |
| 5) Phenol-d6                | 7.09  | 99   | 2240     | 0.11 | ng    | -0.01    |
| 8) Nitrobenzene-d5          | 9.08  | 82   | 5679     | 0.39 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.30 | 152  | 13530    | 0.37 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 16.03 | 330  | 1254     | 0.26 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.16 | 172  | 25351    | 0.42 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 19.28 | 212  | 168615   | 0.55 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.87 | 244  | 37013    | 0.51 | ng    | 0.00     |

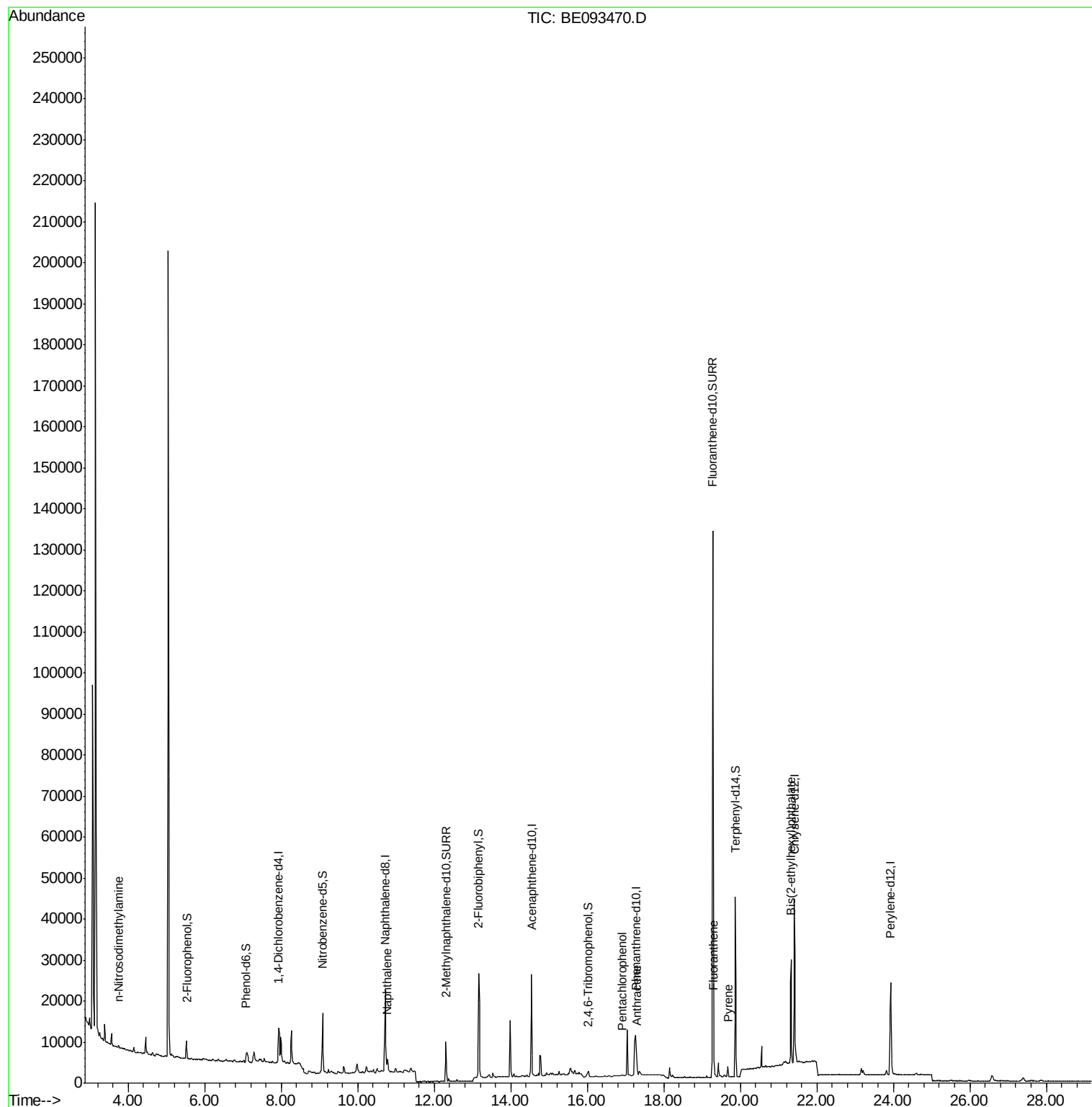
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 3) n-Nitrosodimethylamine      | 3.75  | 42   | 57       | 0.133 | ng    | # 1    |
| 9) Naphthalene                 | 10.77 | 128  | 4810     | 0.020 | ng    | # 78   |
| 22) Pentachlorophenol          | 16.91 | 266  | 211      | 0.059 | ng    | # 89   |
| 24) Anthracene                 | 17.30 | 178  | 1719     | 0.030 | ng    | # 92   |
| 26) Fluoranthene               | 19.31 | 202  | 2332     | 0.027 | ng    | # 85   |
| 28) Pyrene                     | 19.67 | 202  | 2345     | 0.021 | ng    | # 96   |
| 32) Bis(2-ethylhexyl)phthalate | 21.33 | 149  | 32391    | 0.205 | ng    | # 66   |

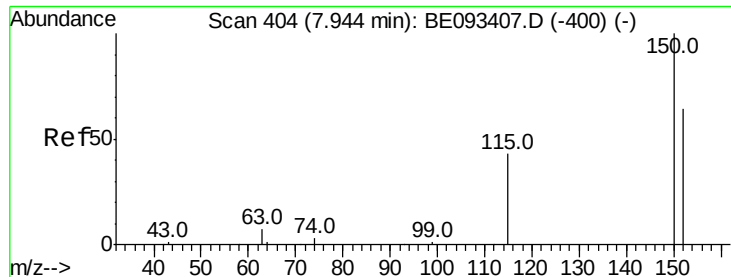
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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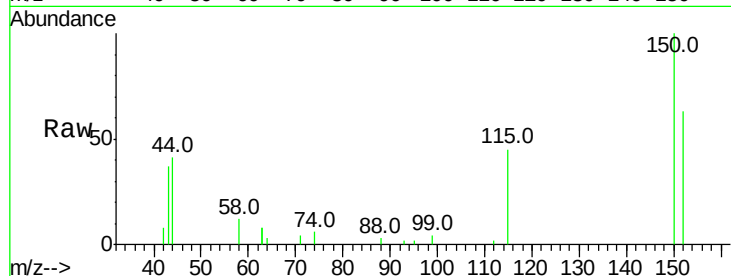


#1

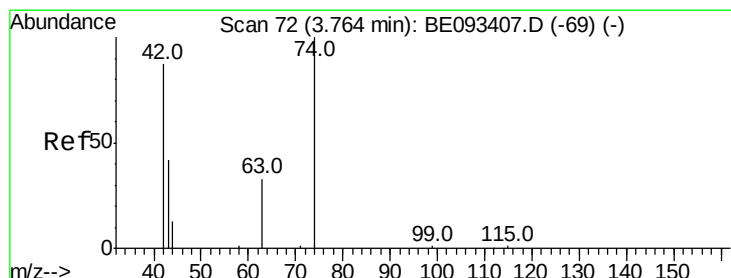
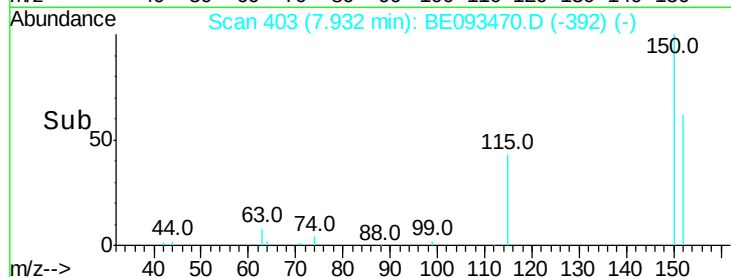
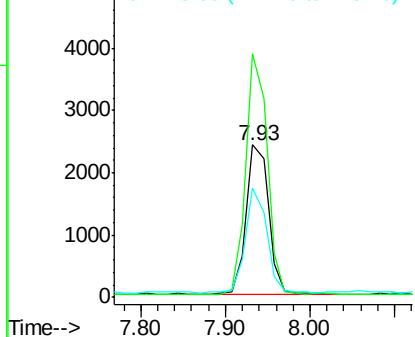
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.93 min Scan# 403  
Delta R.T. -0.01 min  
Lab File: BE093470.D  
Acq: 14 Jul 2017 14:09

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 4383  
Ion Ratio Lower Upper  
152 100  
150 159.6 125.1 187.7  
115 71.2 55.7 83.5



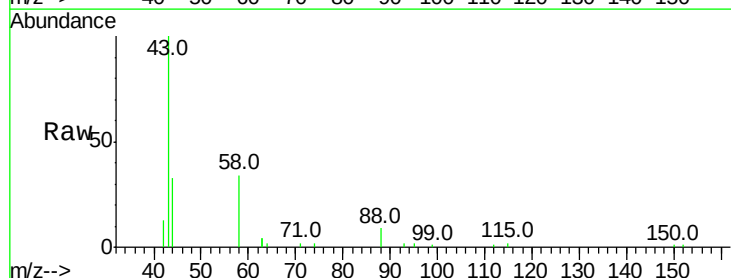
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



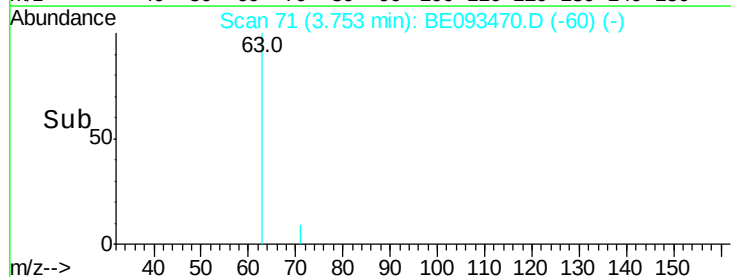
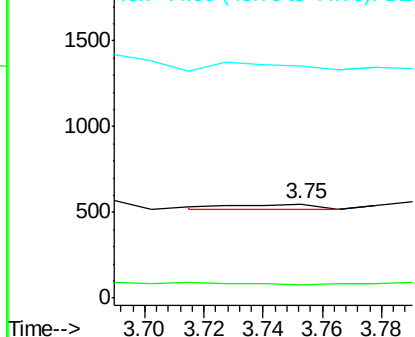
#3

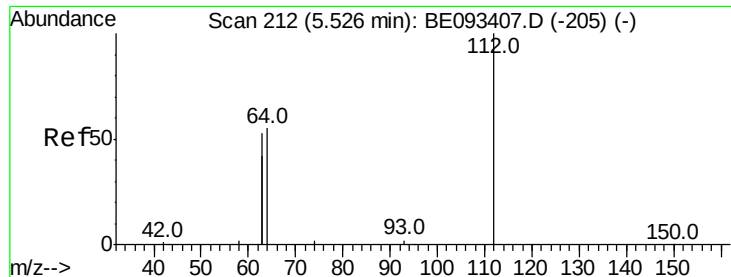
n-Nitrosodimethylamine  
Concen: 0.133 ng  
RT: 3.75 min Scan# 71  
Delta R.T. -0.01 min  
Lab File: BE093470.D  
Acq: 14 Jul 2017 14:09

Tgt Ion: 42 Resp: 57  
Ion Ratio Lower Upper  
42 100  
74 0.0 99.1 148.7#  
44 0.0 7.4 11.2#



Abundance Ion 42.00 (41.70 to 42.70): BE0  
Ion 74.00 (73.70 to 74.70): BE0  
Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 0.168 ng

RT: 5.53 min Scan# 212

Delta R.T. 0.00 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

Instrument :

BNA\_E

ClientSampled :

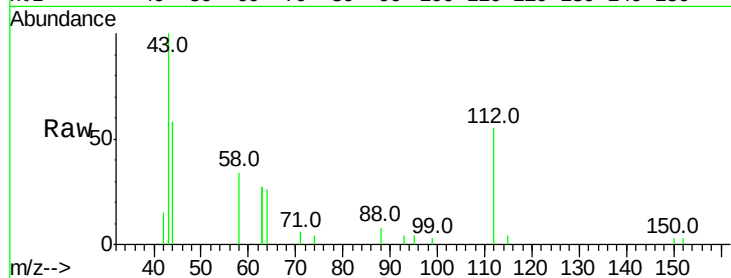
Tot Ion: 112 Resp: 2227

Ion Ratio Lower Upper

112 100

64 74.1 56.4 84.6

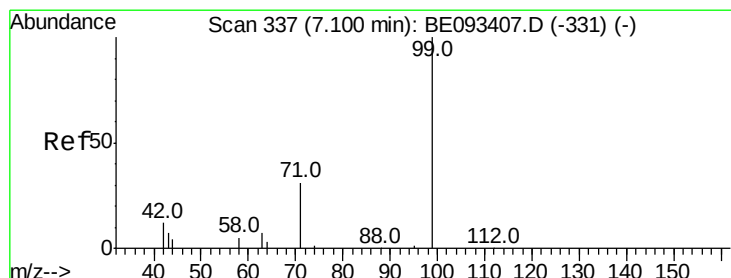
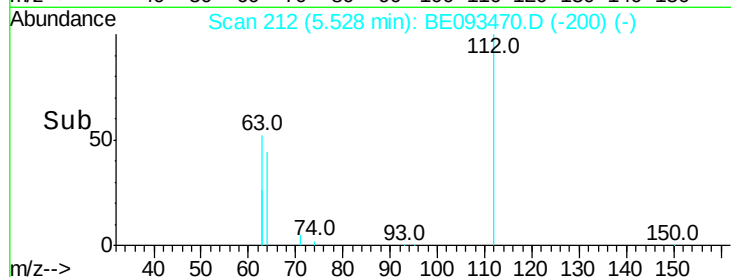
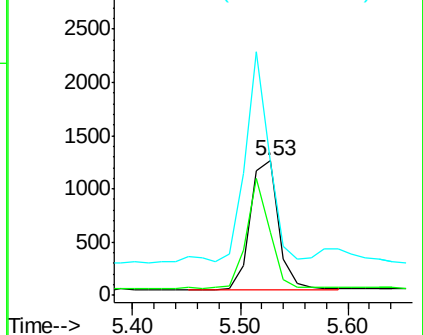
63 142.1 29.3 43.9#



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.115 ng

RT: 7.09 min Scan# 336

Delta R.T. -0.01 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

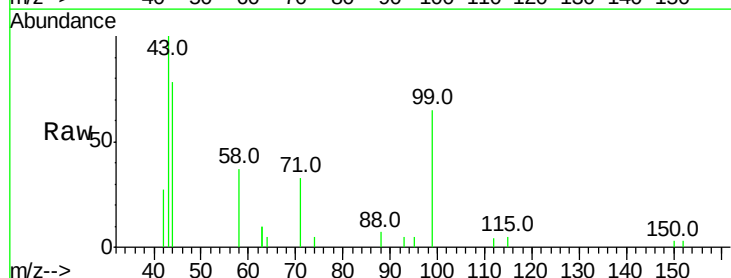
Tgt Ion: 99 Resp: 2240

Ion Ratio Lower Upper

99 100

42 23.2 0.0 0.0#

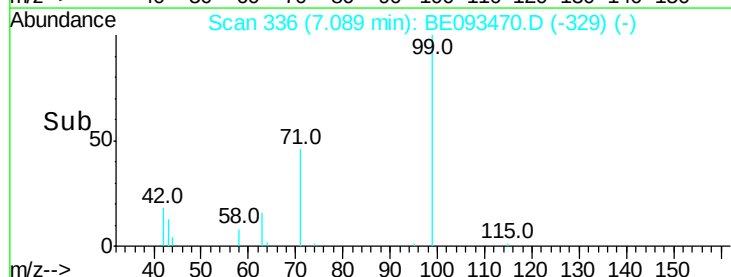
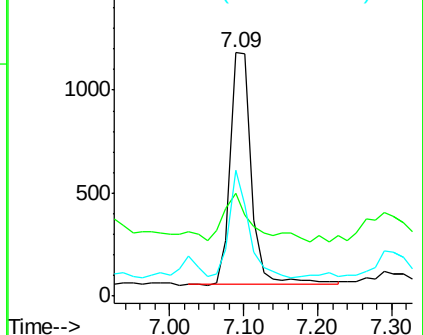
71 41.3 0.0 0.0#

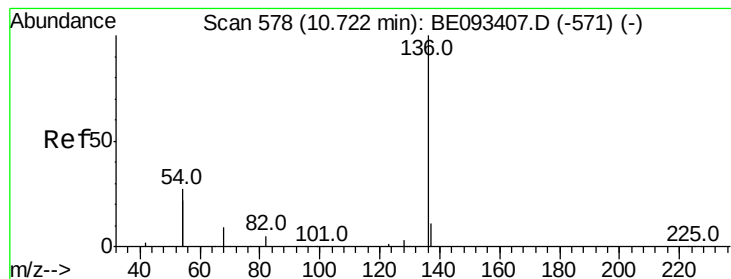


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.72 min Scan# 578

Delta R.T. 0.00 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 22704

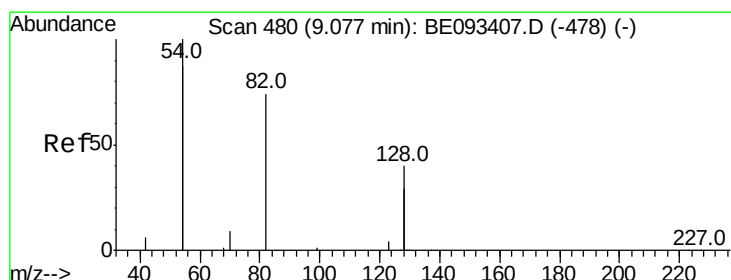
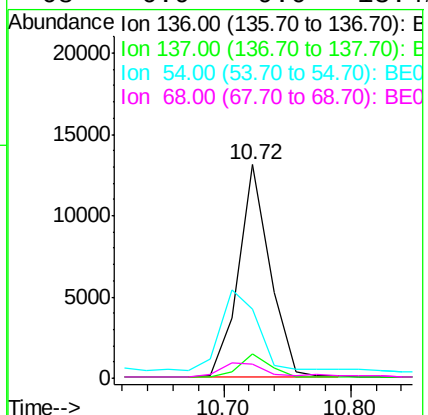
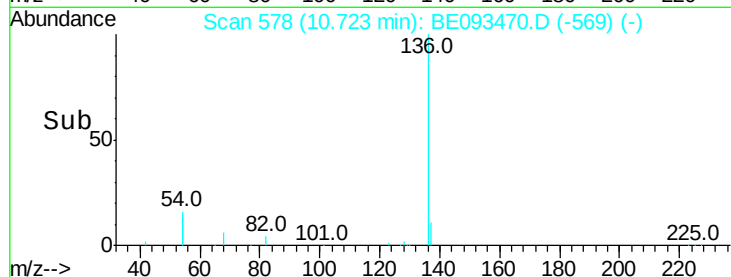
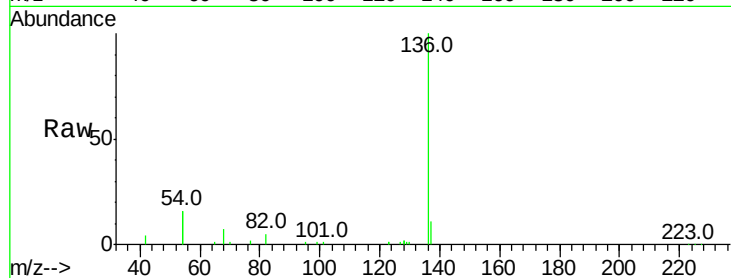
Ion Ratio Lower Upper

136 100

137 11.3 9.8 14.8

54 32.1 10.3 15.5#

68 6.9 9.0 13.4#



#8

Nitrobenzene-d5

Concen: 0.392 ng

RT: 9.08 min Scan# 480

Delta R.T. 0.00 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

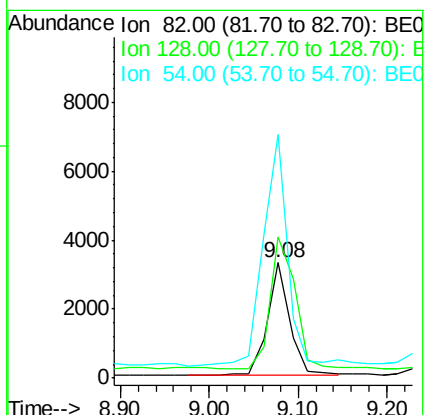
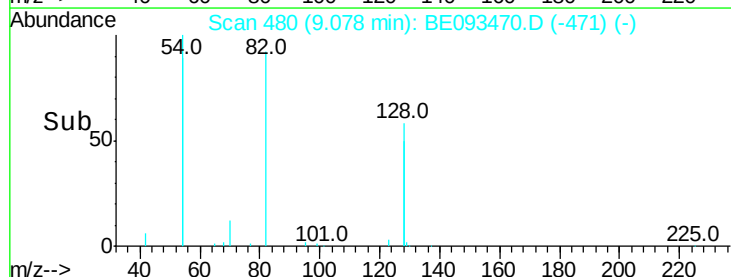
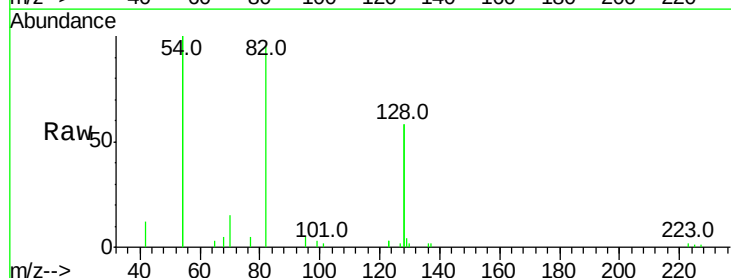
Tgt Ion: 82 Resp: 5679

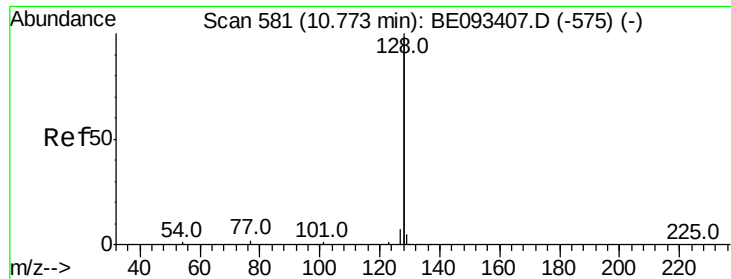
Ion Ratio Lower Upper

82 100

128 122.7 17.0 25.4#

54 210.8 53.8 80.6#





#9

Naphthalene

Concen: 0.020 ng

RT: 10.77 min Scan# 581

Delta R.T. 0.00 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

Instrument :

BNA\_E

ClientSampleId :

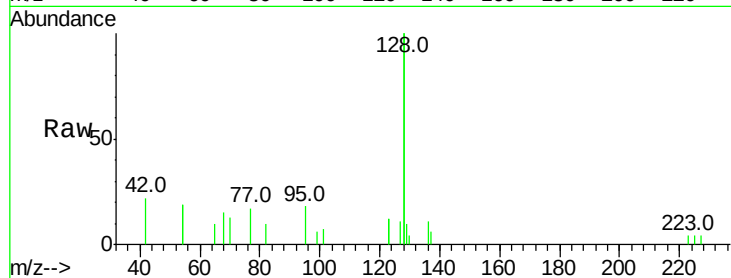
Tot Ion:128 Resp: 4810

Ion Ratio Lower Upper

128 100

129 4.8 11.4 17.0#

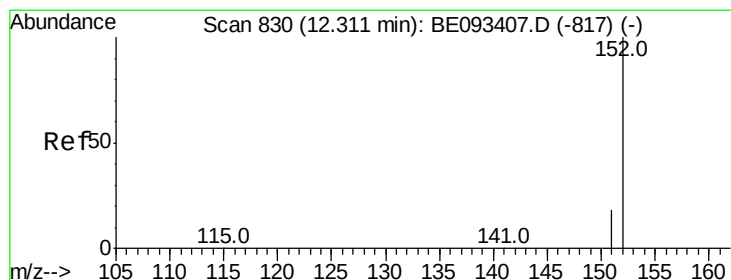
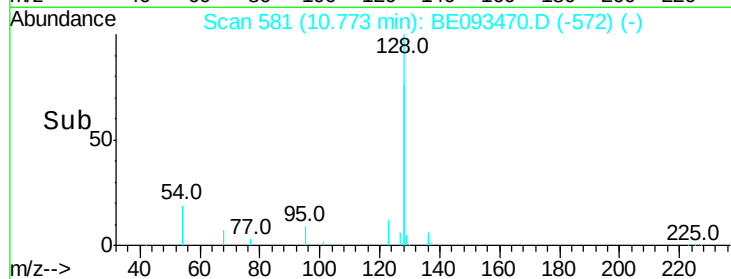
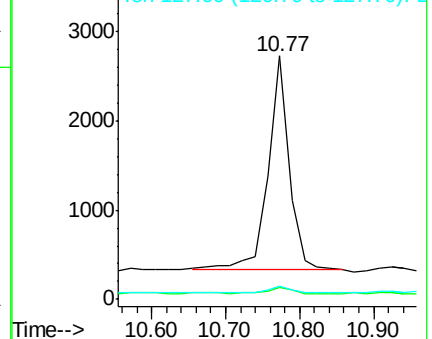
127 5.5 11.2 16.8#



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



#11

2-Methylnaphthalene-d10

Concen: 0.374 ng

RT: 12.30 min Scan# 828

Delta R.T. -0.01 min

Lab File: BE093470.D

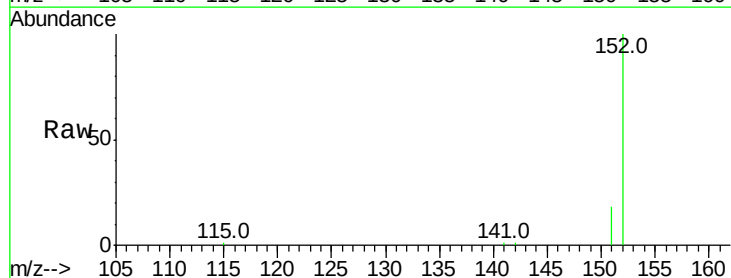
Acq: 14 Jul 2017 14:09

Tgt Ion:152 Resp: 13530

Ion Ratio Lower Upper

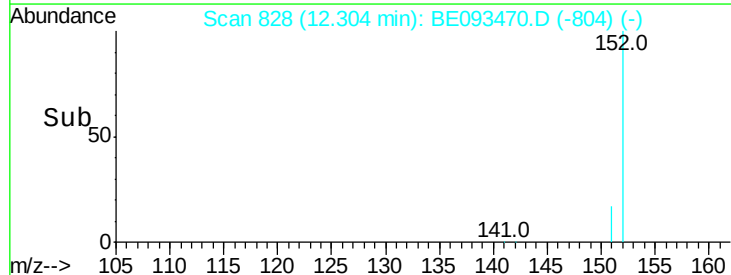
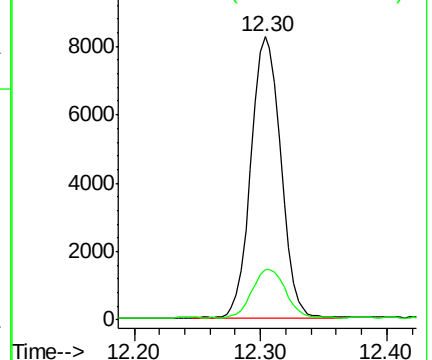
152 100

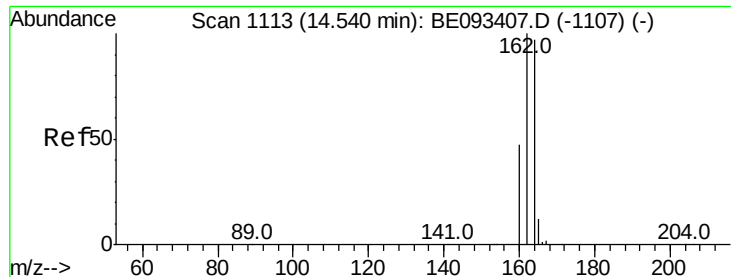
151 19.1 15.1 22.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.54 min Scan# 1113

Delta R.T. 0.00 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

Instrument :

BNA\_E

ClientSampleId :

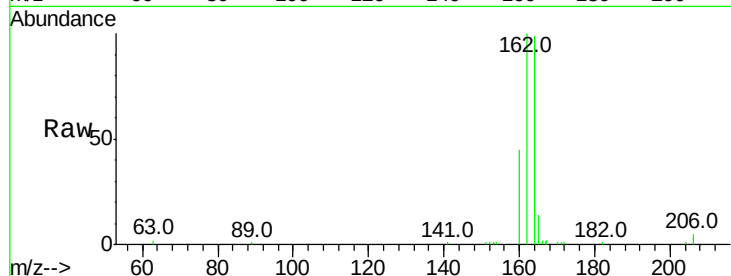
Tot Ion:164 Resp: 15400

Ion Ratio Lower Upper

164 100

162 101.3 84.6 127.0

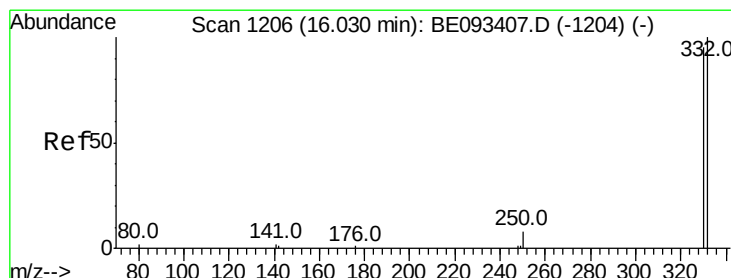
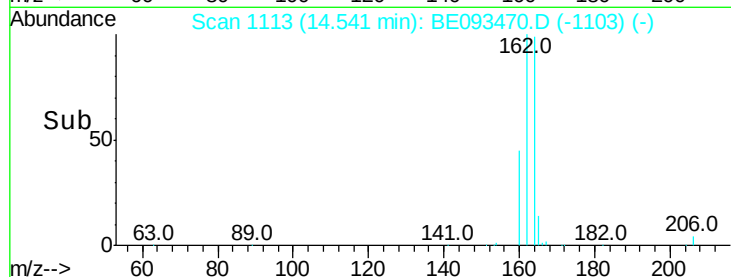
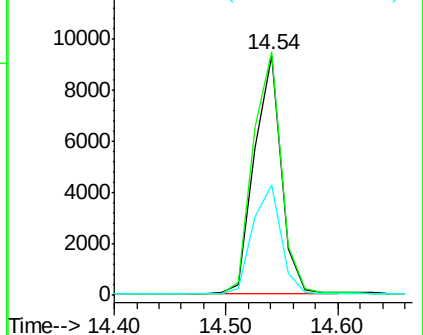
160 45.8 41.8 62.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.259 ng

RT: 16.03 min Scan# 1206

Delta R.T. 0.00 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

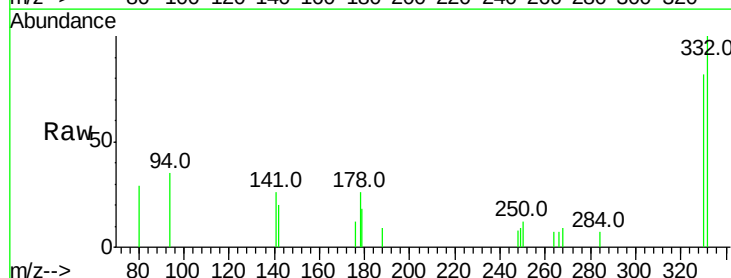
Tgt Ion:330 Resp: 1254

Ion Ratio Lower Upper

330 100

332 113.6 77.7 116.5

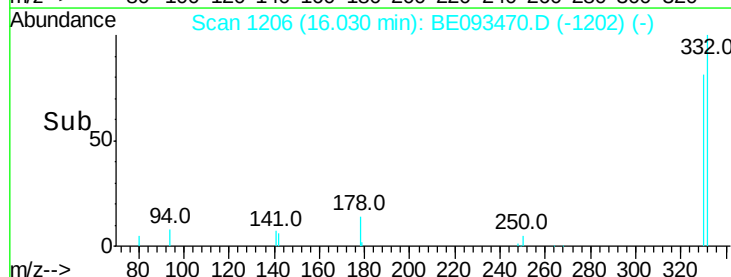
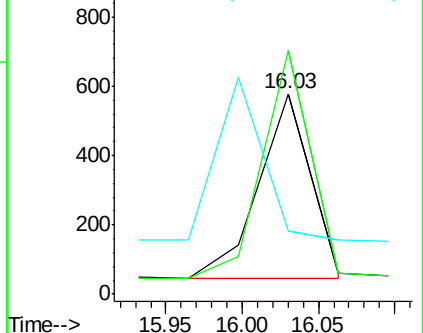
141 0.0 56.2 84.4#

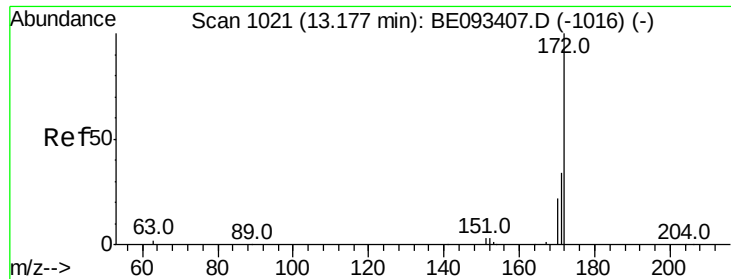


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

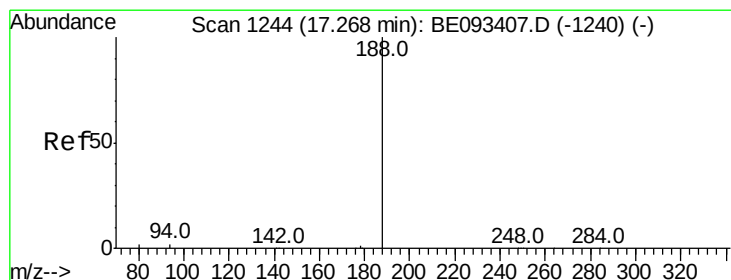
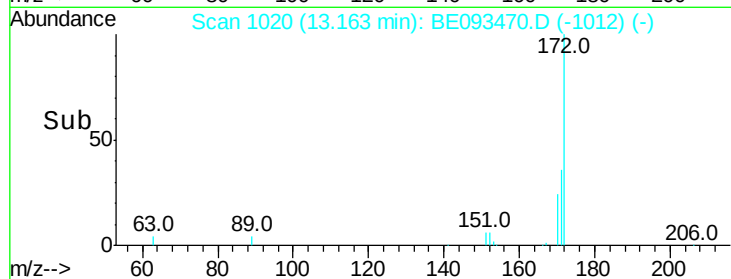
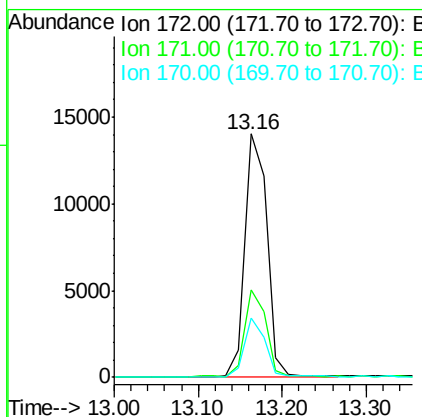
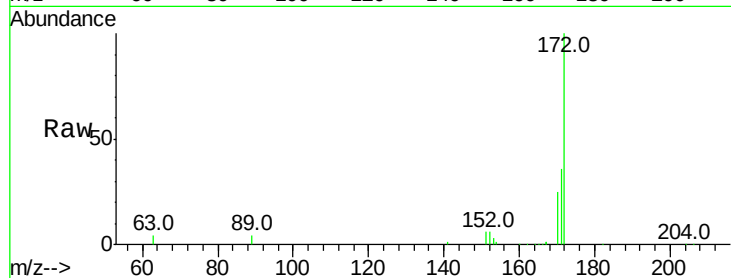




#15  
2-Fluorobiphenyl  
Concen: 0.424 ng  
RT: 13.16 min Scan# 1020  
Delta R.T. -0.01 min  
Lab File: BE093470.D  
Acq: 14 Jul 2017 14:09

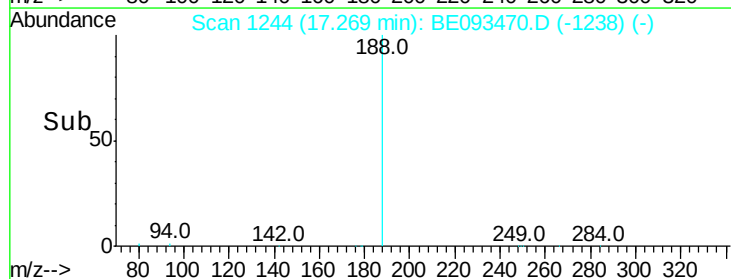
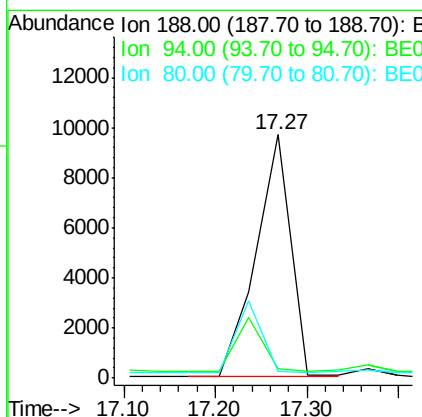
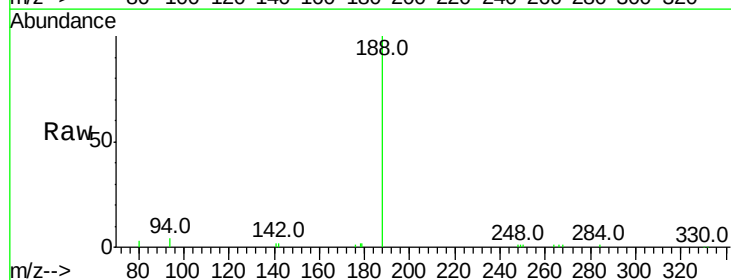
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 25351  
Ion Ratio Lower Upper  
172 100  
171 36.0 29.8 44.6  
170 24.6 20.7 31.1

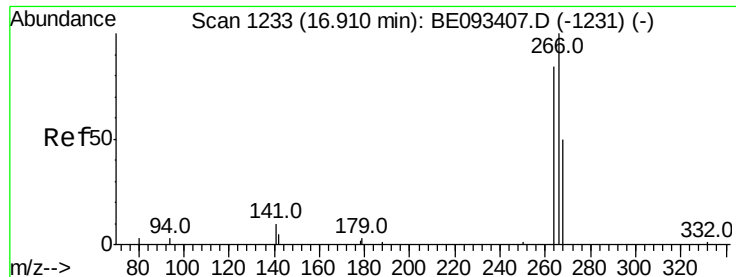


#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.27 min Scan# 1244  
Delta R.T. 0.00 min  
Lab File: BE093470.D  
Acq: 14 Jul 2017 14:09

Tgt Ion:188 Resp: 25660  
Ion Ratio Lower Upper  
188 100  
94 3.8 11.3 16.9#  
80 3.0 11.7 17.5#







#22

Pentachlorophenol

Concen: 0.059 ng

RT: 16.91 min Scan# 1233

Delta R.T. 0.00 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

Instrument :

BNA\_E

ClientSampleId :

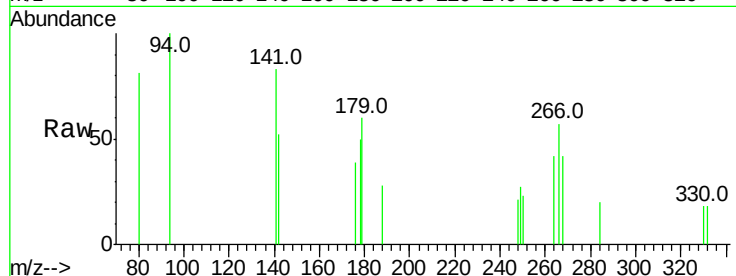
Tot Ion:266 Resp: 211

Ion Ratio Lower Upper

266 100

264 74.7 58.2 87.2

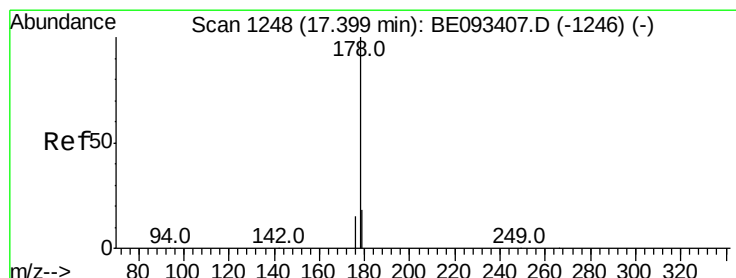
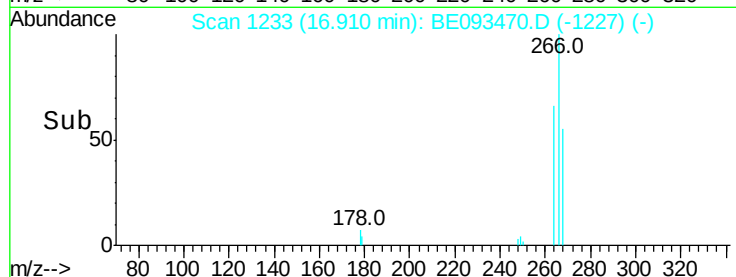
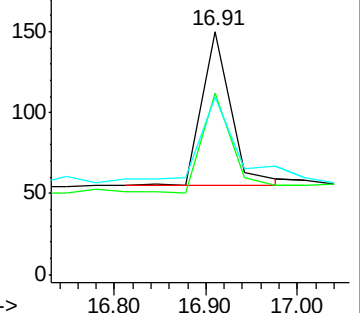
268 73.3 71.9 107.9



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



#24

Anthracene

Concen: 0.030 ng

RT: 17.30 min Scan# 1245

Delta R.T. -0.10 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

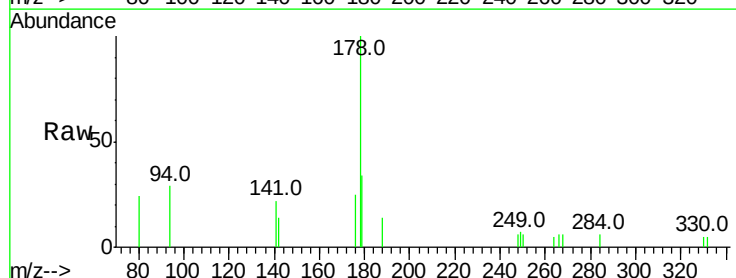
Tgt Ion:178 Resp: 1719

Ion Ratio Lower Upper

178 100

176 21.8 14.6 22.0

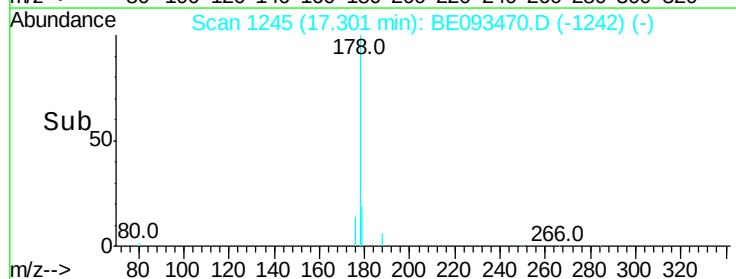
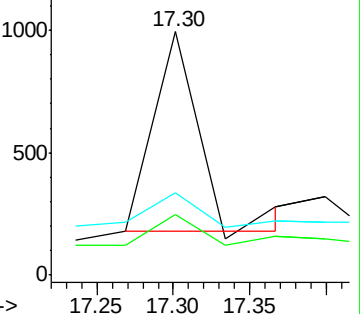
179 11.8 12.0 18.0#

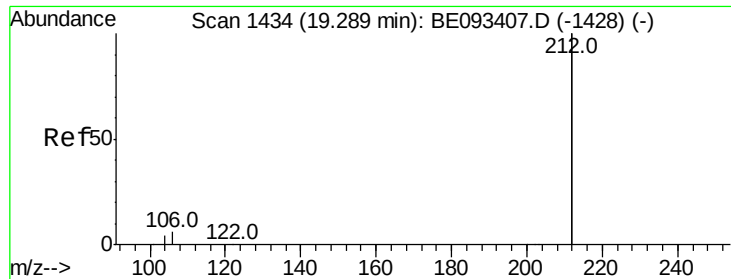


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.545 ng

RT: 19.28 min Scan# 1433

Delta R.T. -0.01 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

Instrument :

BNA\_E

ClientSampleId :

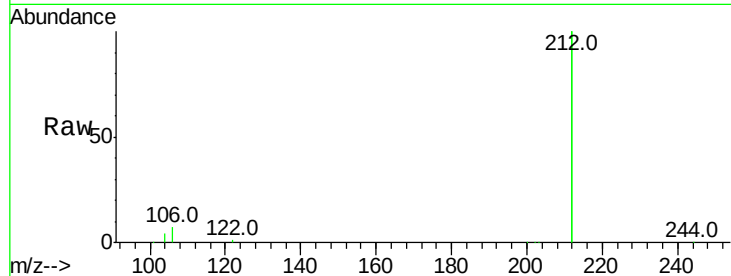
Tot Ion:212 Resp: 168615

Ion Ratio Lower Upper

212 100

106 3.5 2.4 3.6

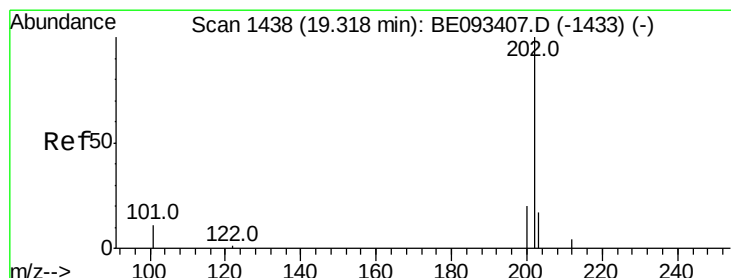
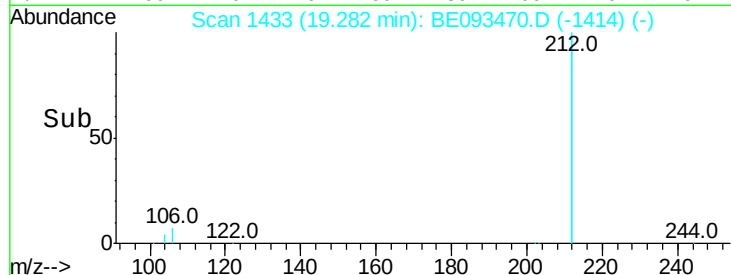
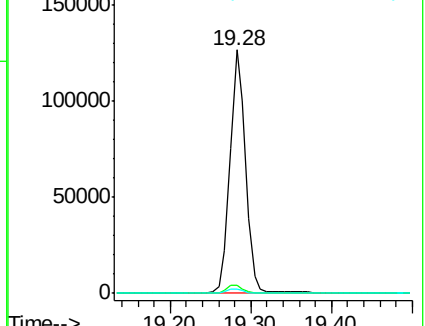
104 1.9 1.6 2.4



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: 0.027 ng

RT: 19.31 min Scan# 1437

Delta R.T. -0.01 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

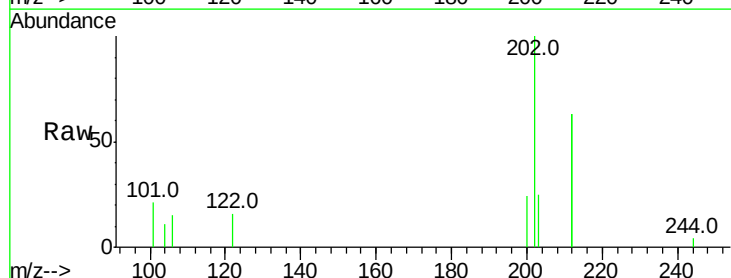
Tgt Ion:202 Resp: 2332

Ion Ratio Lower Upper

202 100

101 25.0 9.6 14.4#

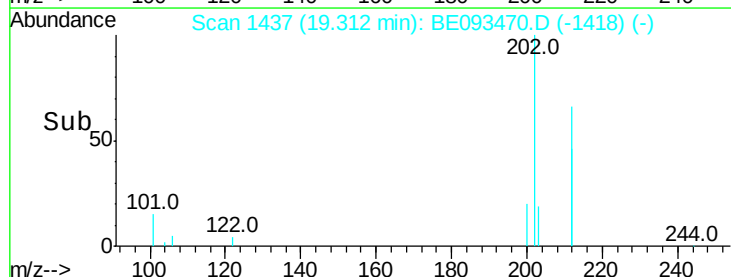
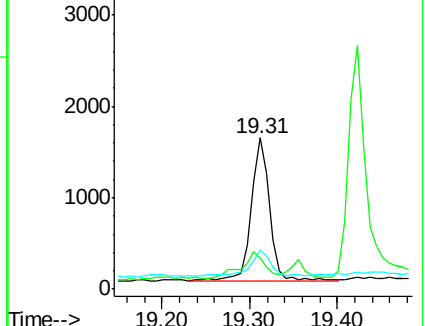
203 16.5 14.4 21.6

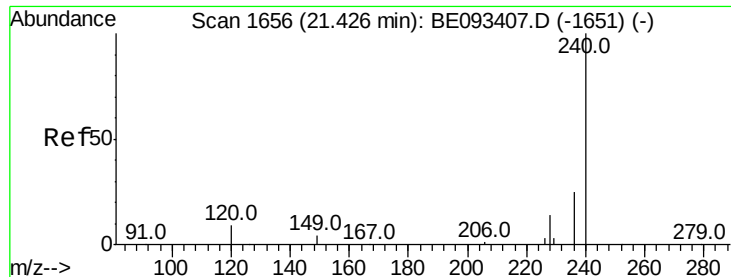


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.42 min Scan# 1655

Delta R.T. -0.01 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

Instrument :

BNA\_E

ClientSampleId :

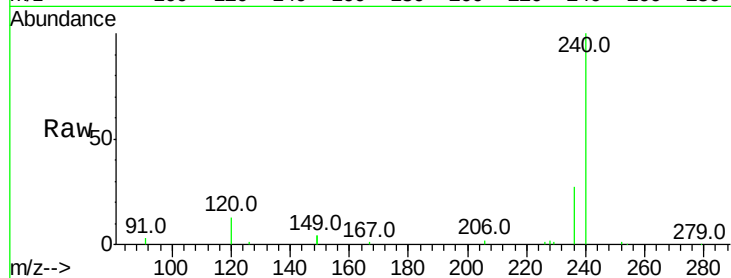
Tot Ion:240 Resp: 40615

Ion Ratio Lower Upper

240 100

120 12.8 4.6 7.0#

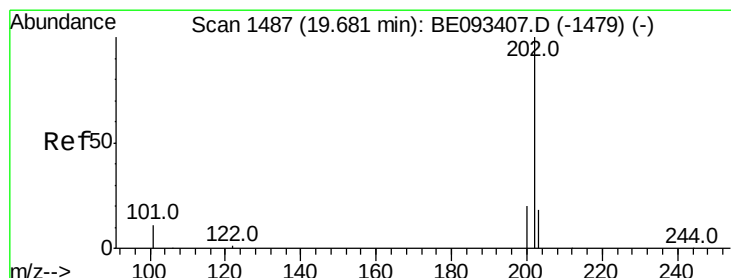
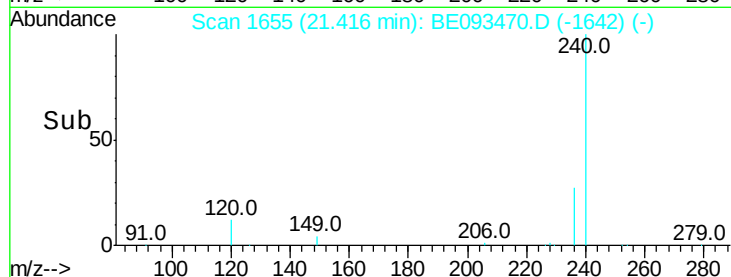
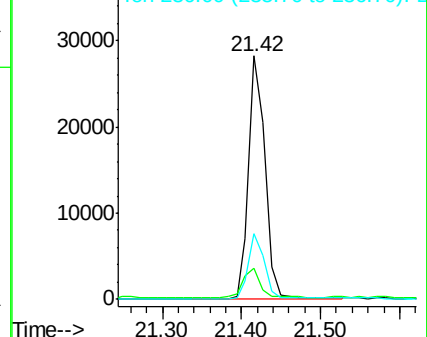
236 26.9 20.8 31.2



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: 0.021 ng

RT: 19.67 min Scan# 1486

Delta R.T. -0.01 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

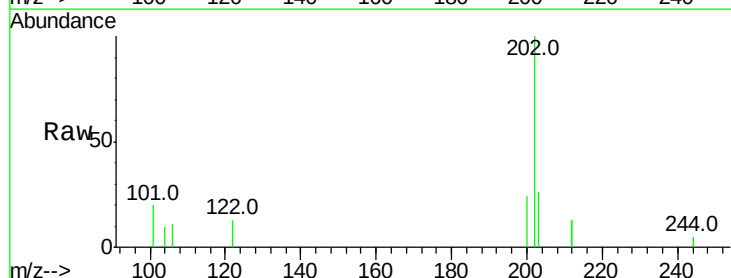
Tgt Ion:202 Resp: 2345

Ion Ratio Lower Upper

202 100

200 21.0 0.0 0.0#

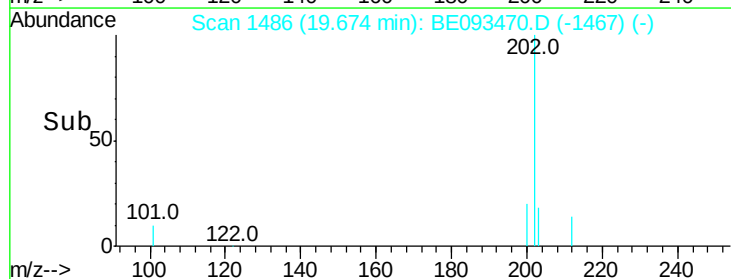
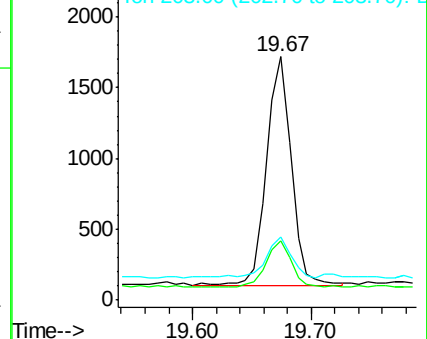
203 18.9 13.7 20.5

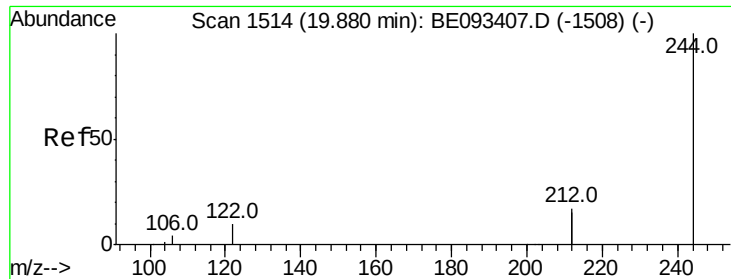


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.510 ng

RT: 19.87 min Scan# 1513

Delta R.T. -0.01 min

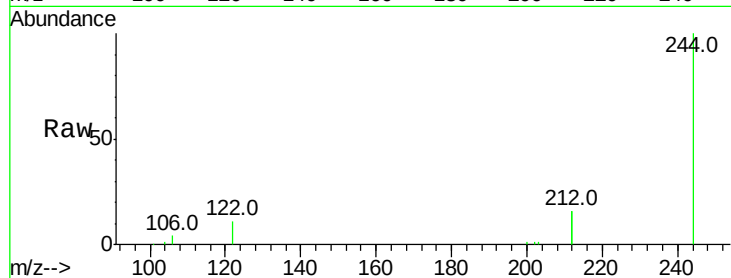
Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

Instrument :

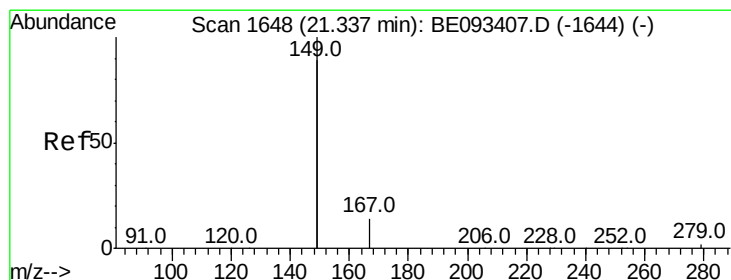
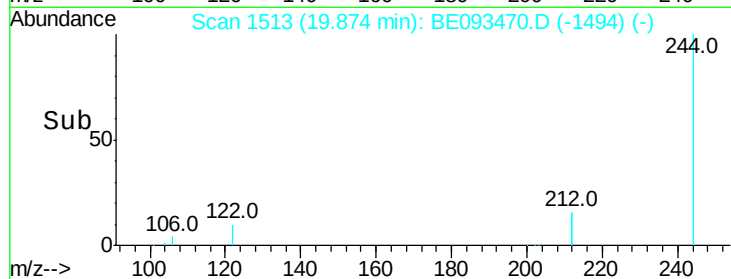
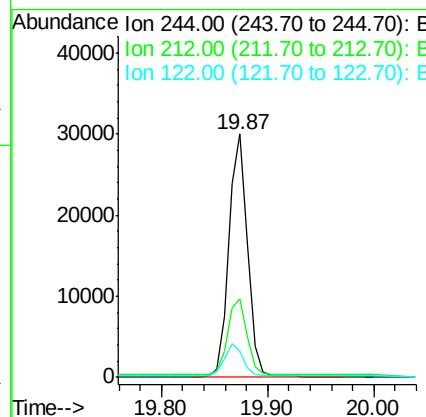
BNA\_E

ClientSampleId :



Tot Ion:244 Resp: 37013

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 32.3  | 10.6  | 16.0# |
| 122 | 10.7  | 15.4  | 23.0# |



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.205 ng

RT: 21.33 min Scan# 1647

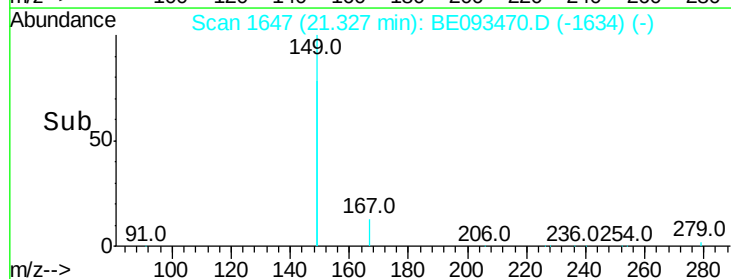
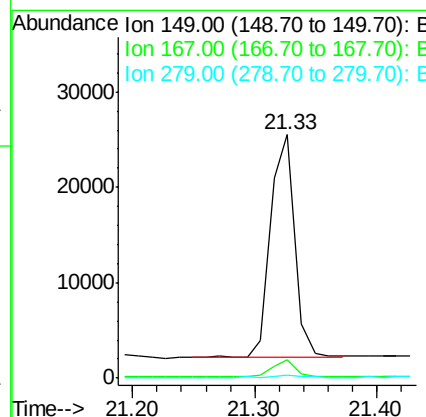
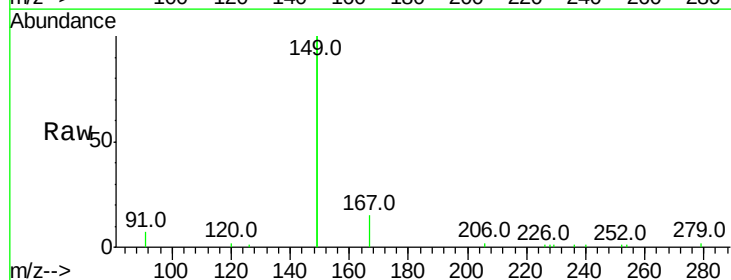
Delta R.T. -0.01 min

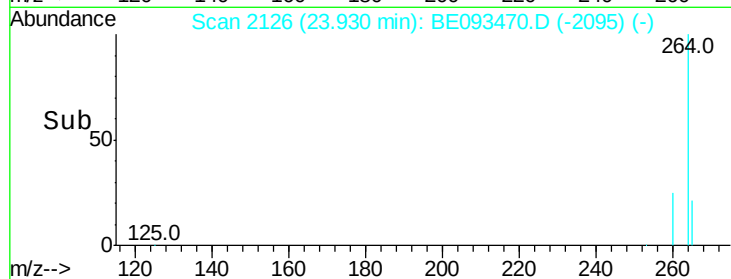
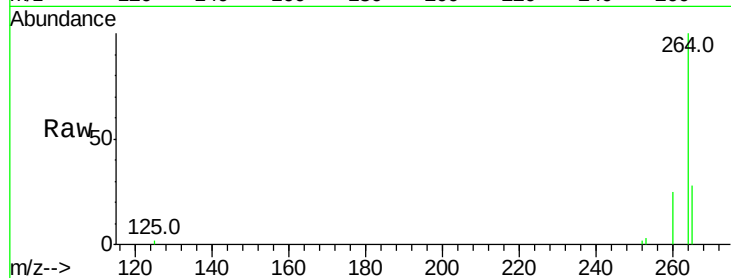
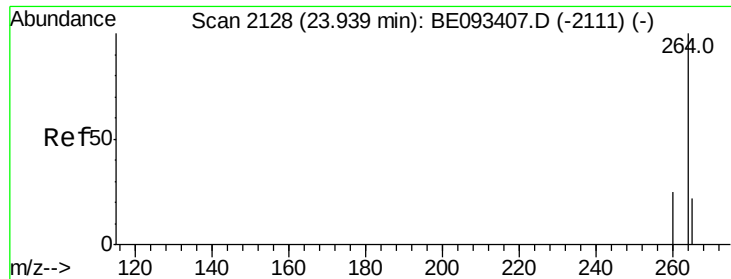
Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

Tgt Ion:149 Resp: 32391

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.7   | 20.1  | 30.1# |
| 279 | 1.0   | 2.2   | 3.4#  |





#34

Pervlene-d12

Concen: 0.400 ng

RT: 23.93 min Scan# 2126

Delta R.T. -0.01 min

Lab File: BE093470.D

Acq: 14 Jul 2017 14:09

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:264 Resp: 34272

Ion Ratio Lower Upper

264 100

260 24.9 21.0 31.4

265 27.6 24.6 36.8

