

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080217\  
 Data File : BE093642.D  
 Acq On : 3 Aug 2017 00:53  
 Operator : SJ/JU  
 Sample : I4425-08  
 Misc : I4426-07  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 CSSB-30-1

Quant Time: Aug 03 02:50:06 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 02 10:58:31 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.92  | 152  | 2498     | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.71 | 136  | 11971    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.53 | 164  | 7161     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.24 | 188  | 20170    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.40 | 240  | 20311    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.91 | 264  | 17938    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.51  | 112  | 2156     | 0.29 | ng    | 0.00     |
| 5) Phenol-d6                | 7.09  | 99   | 3467     | 0.31 | ng    | -0.01    |
| 8) Nitrobenzene-d5          | 9.06  | 82   | 2631     | 0.29 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.29 | 152  | 4940     | 0.26 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 16.00 | 330  | 548      | 0.36 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.15 | 172  | 7376     | 0.26 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 19.27 | 212  | 61752    | 0.27 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.86 | 244  | 10836    | 0.30 | ng    | 0.00     |

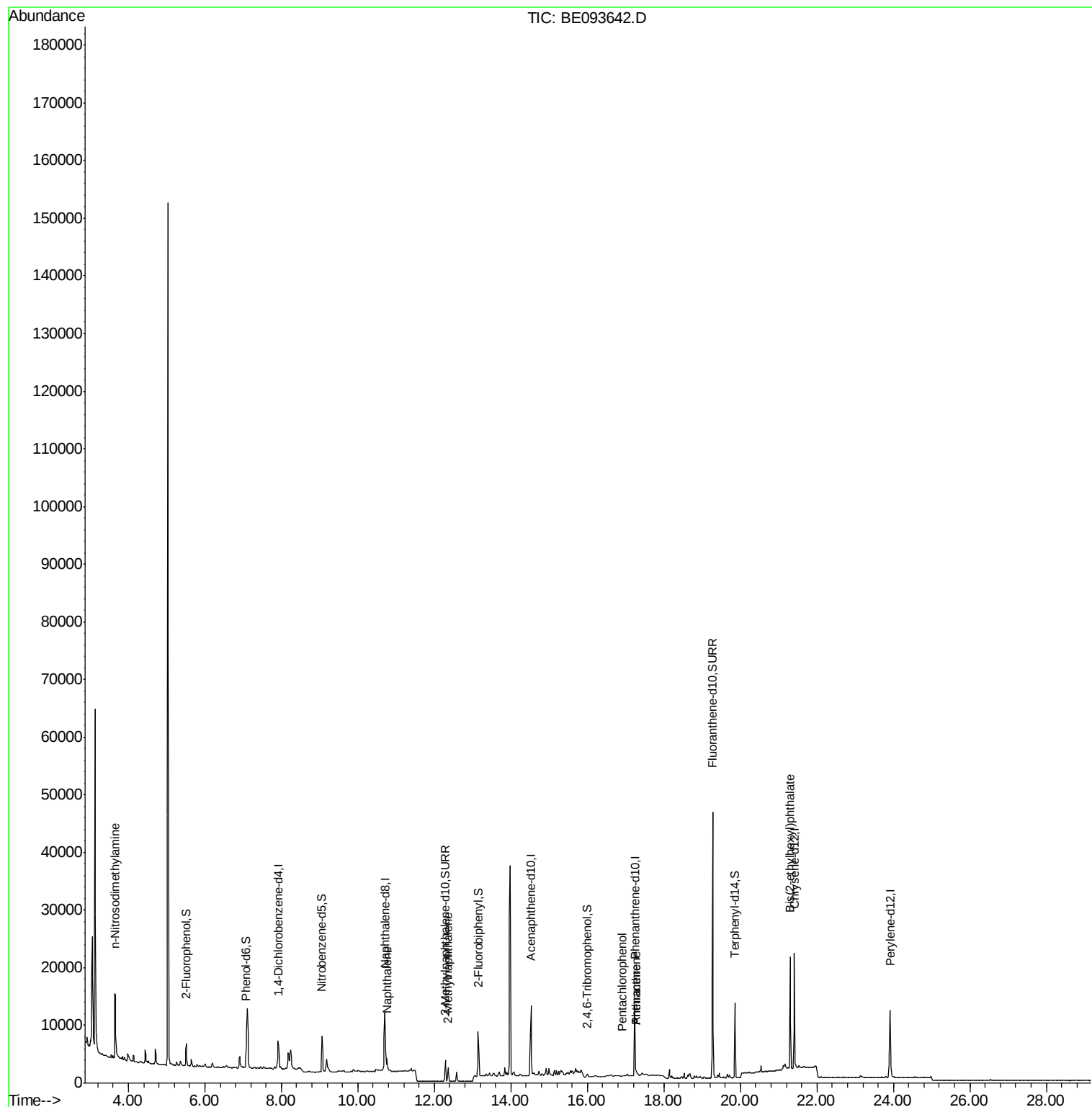
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 3) n-Nitrosodimethylamine      | 3.65  | 42   | 2601     | 0.686     | ng    | # 1    |
| 9) Naphthalene                 | 10.76 | 128  | 3372     | 0.024     | ng    | # 91   |
| 12) 2-Methylnaphthalene        | 12.36 | 142  | 1731     | 0.076     | ng    | # 98   |
| 20) 4-Bromophenyl-phenylether  | 16.42 | 248  | 12       | Below Cal |       | # 10   |
| 21) Hexachlorobenzene          | 16.52 | 284  | 2        | Below Cal |       | # 100  |
| 22) Pentachlorophenol          | 16.91 | 266  | 27       | 0.157     | ng    | # 64   |
| 23) Phenanthrene               | 17.27 | 178  | 1643     | 0.037     | ng    | # 82   |
| 24) Anthracene                 | 17.27 | 178  | 1535     | 0.025     | ng    | # 82   |
| 32) Bis(2-ethylhexyl)phthalate | 21.30 | 149  | 20665    | 0.254     | ng    | # 97   |

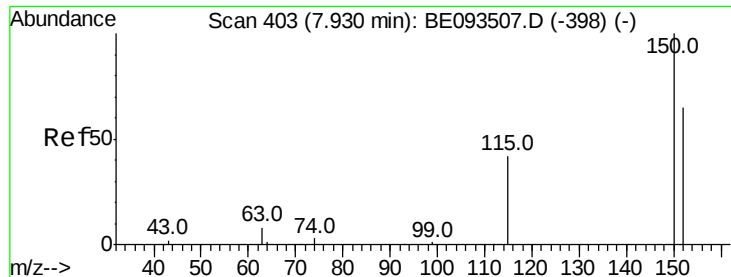
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080217\  
Data File : BE093642.D  
Acq On : 3 Aug 2017 00:53  
Operator : SJ/JU  
Sample : I4425-08  
Misc : I4426-07  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
CSSB-30-1

Quant Time: Aug 03 02:50:06 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 02 10:58:31 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.92 min Scan# 402

Delta R.T. -0.01 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

Instrument :

BNA\_E

ClientSampleId :

CSSB-30-1

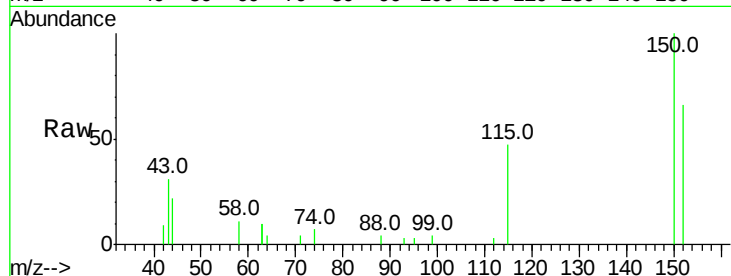
Tot Ion:152 Resp: 2498

Ion Ratio Lower Upper

152 100

150 151.1 125.1 187.7

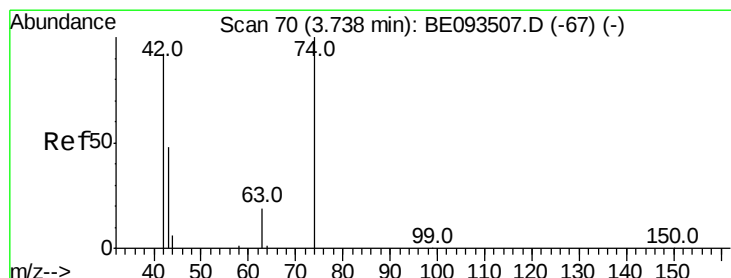
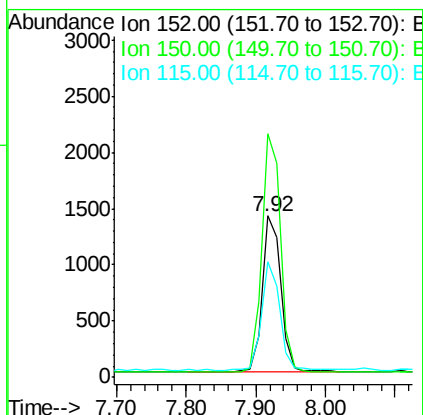
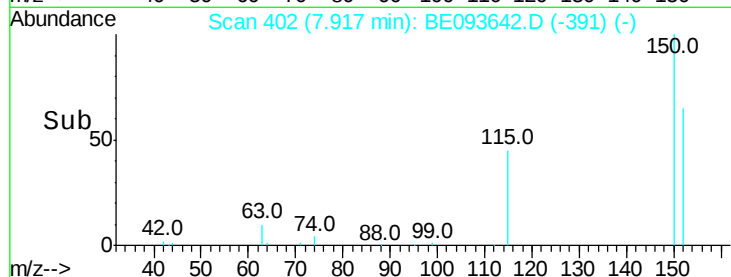
115 71.5 55.7 83.5



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: 0.686 ng

RT: 3.65 min Scan# 63

Delta R.T. -0.09 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

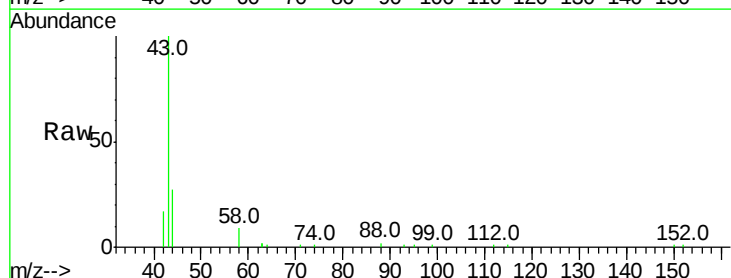
Tgt Ion: 42 Resp: 2601

Ion Ratio Lower Upper

42 100

74 1.3 99.1 148.7#

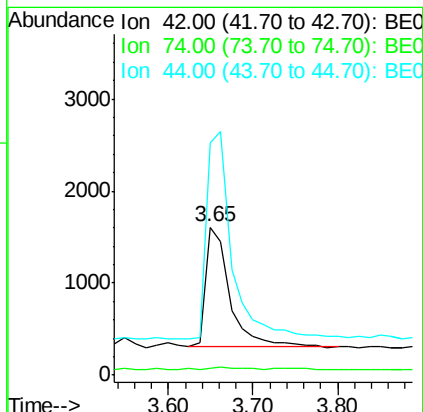
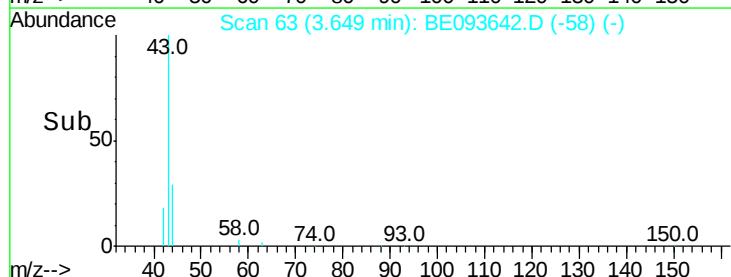
44 183.3 7.4 11.2#

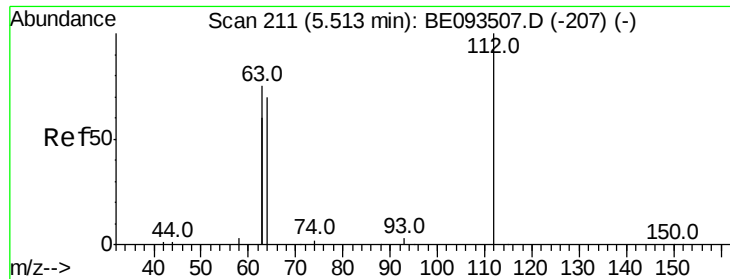


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 0.290 ng

RT: 5.51 min Scan# 211

Delta R.T. -0.00 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

Instrument :

BNA\_E

ClientSampleId :

CSSB-30-1

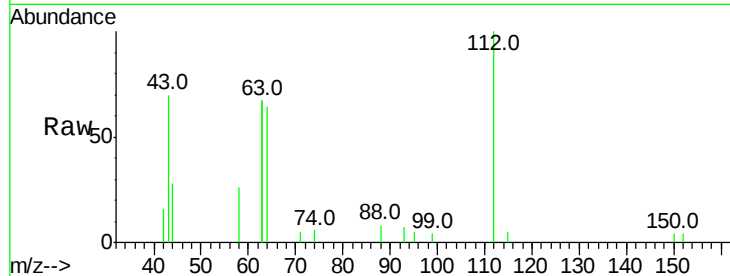
Tot Ion:112 Resp: 2156

Ion Ratio Lower Upper

112 100

64 68.8 56.4 84.6

63 138.1 29.3 43.9#



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

2500

2000

1500

1000

500

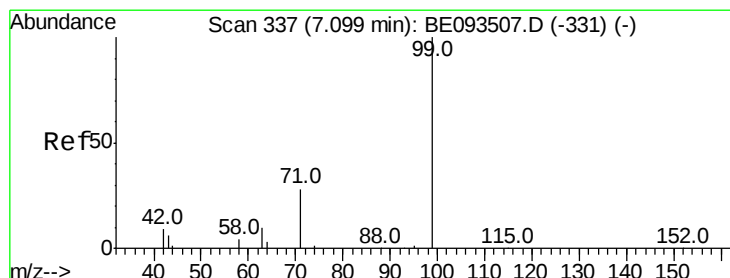
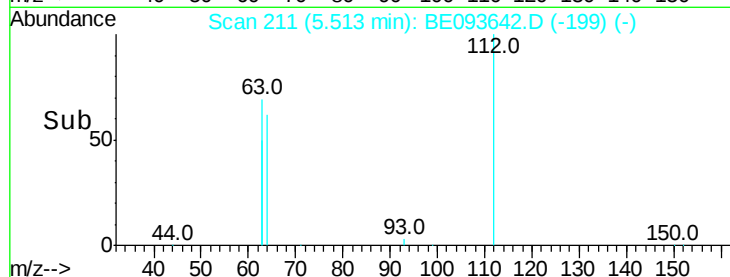
0

5.40

5.50

5.60

Time-->



#5

Phenol-d6

Concen: 0.309 ng

RT: 7.09 min Scan# 336

Delta R.T. -0.01 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

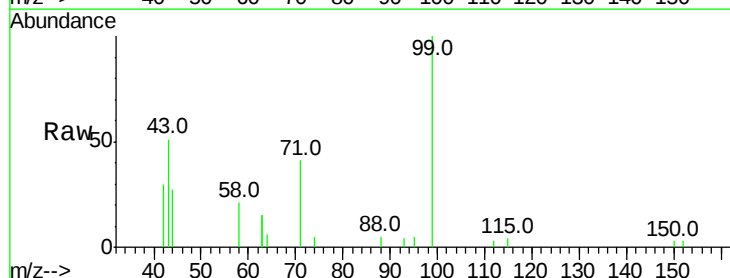
Tgt Ion: 99 Resp: 3467

Ion Ratio Lower Upper

99 100

42 33.7 0.0 0.0#

71 36.2 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

2500

2000

1500

1000

500

0

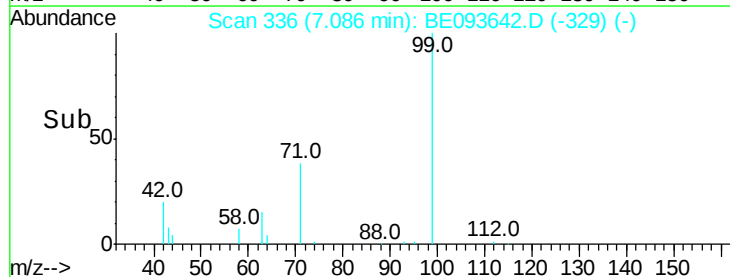
7.00

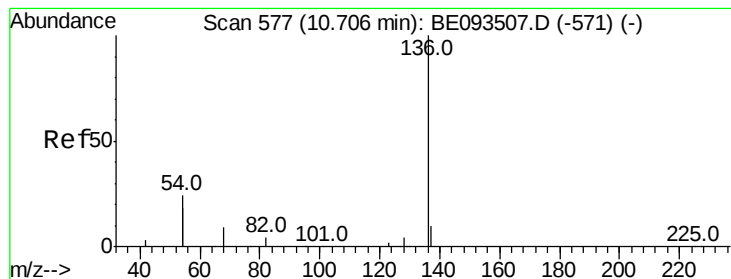
7.10

7.20

7.30

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.71 min Scan# 577

Delta R.T. -0.00 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

Instrument :

BNA\_E

ClientSampleId :

CSSB-30-1

Tot Ion:136 Resp: 11971

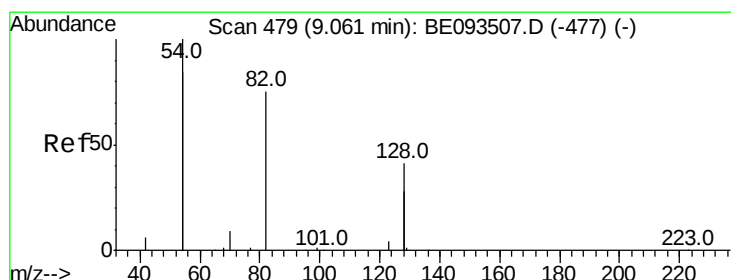
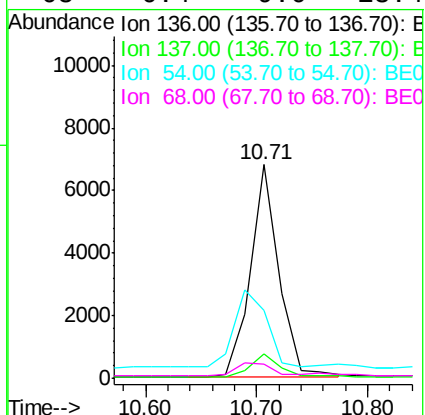
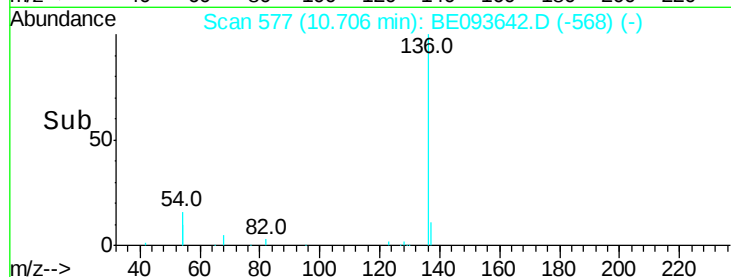
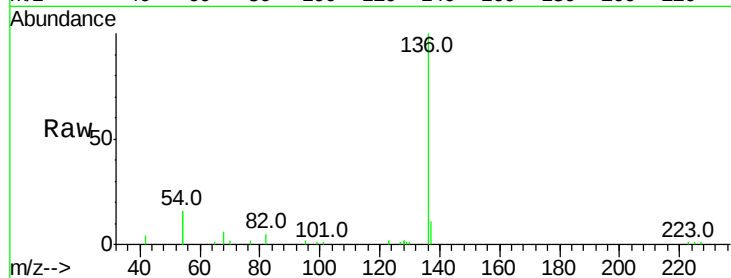
Ion Ratio Lower Upper

136 100

137 11.4 9.8 14.8

54 31.7 10.3 15.5#

68 6.4 9.0 13.4#



#8

Nitrobenzene-d5

Concen: 0.288 ng

RT: 9.06 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

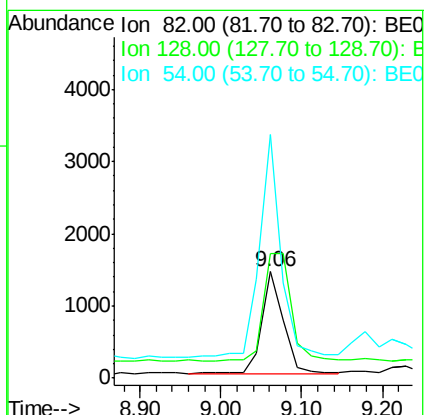
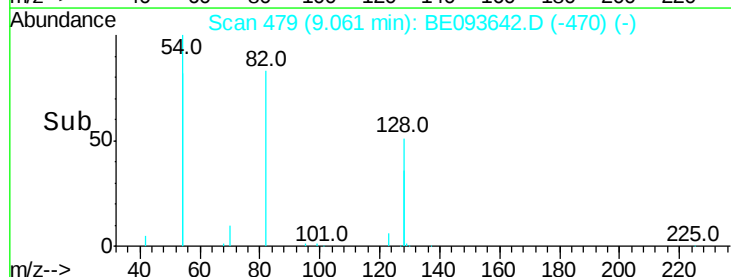
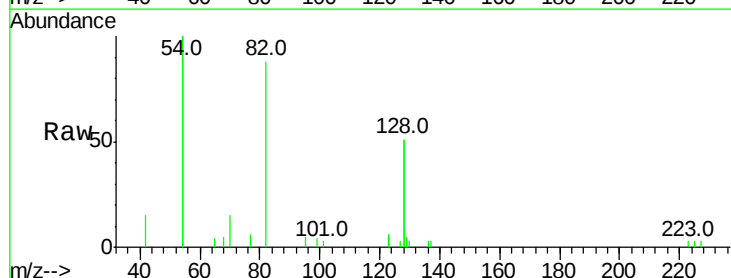
Tgt Ion: 82 Resp: 2631

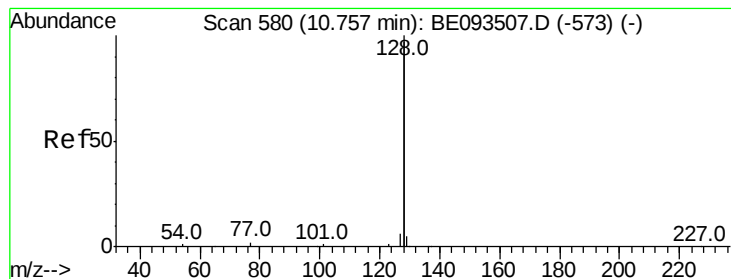
Ion Ratio Lower Upper

82 100

128 116.6 17.0 25.4#

54 228.4 53.8 80.6#





#9

Naphthalene

Concen: 0.024 ng

RT: 10.76 min Scan# 580

Delta R.T. -0.00 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

Instrument :

BNA\_E

ClientSampleId :

CSSB-30-1

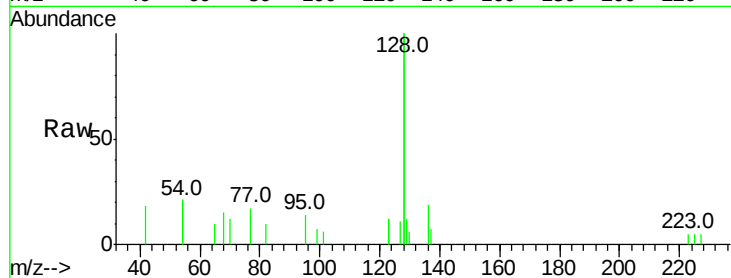
Tot Ion:128 Resp: 3372

Ion Ratio Lower Upper

128 100

129 6.0 2.4 3.6#

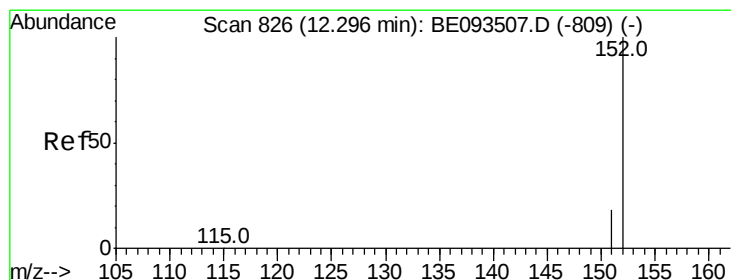
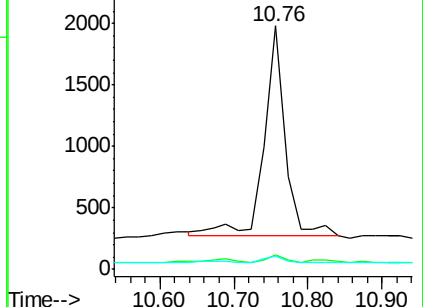
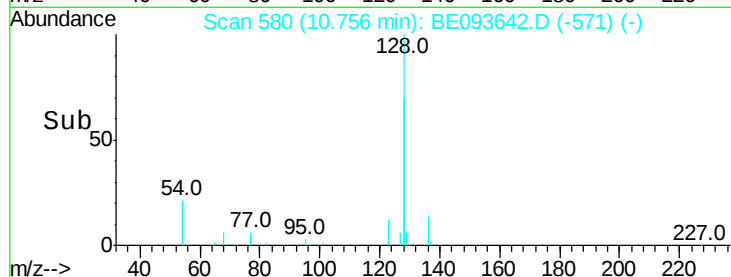
127 5.7 2.4 3.6#



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: 0.261 ng

RT: 12.29 min Scan# 824

Delta R.T. -0.01 min

Lab File: BE093642.D

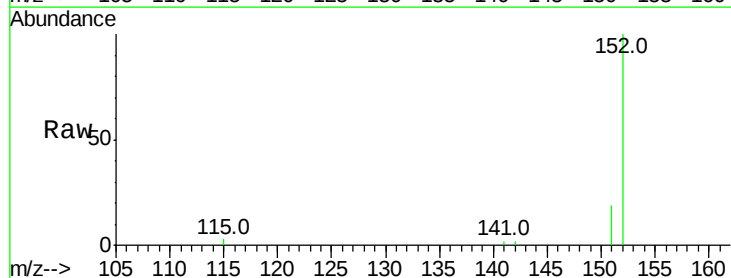
Acq: 3 Aug 2017 00:53

Tgt Ion:152 Resp: 4940

Ion Ratio Lower Upper

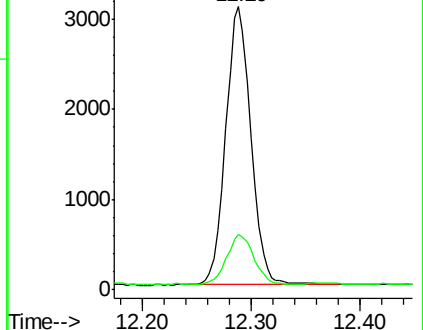
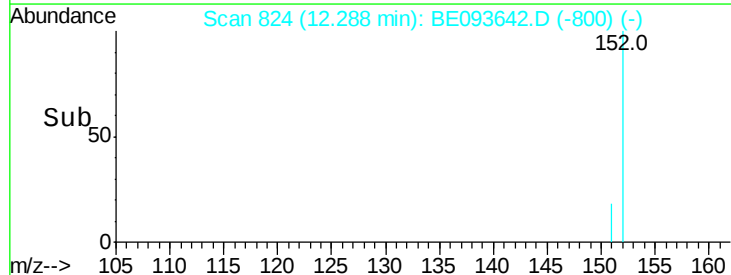
152 100

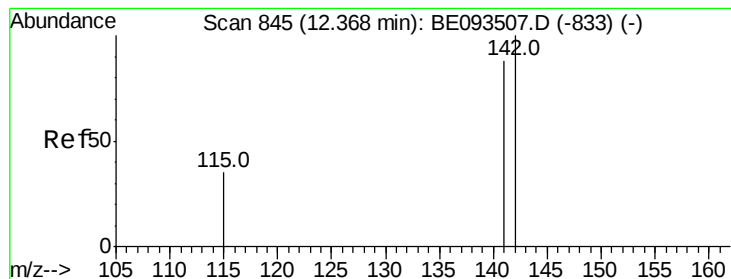
151 19.6 15.1 22.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.076 ng

RT: 12.36 min Scan# 843

Delta R.T. -0.01 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

Instrument :

BNA\_E

ClientSampleId :

CSSB-30-1

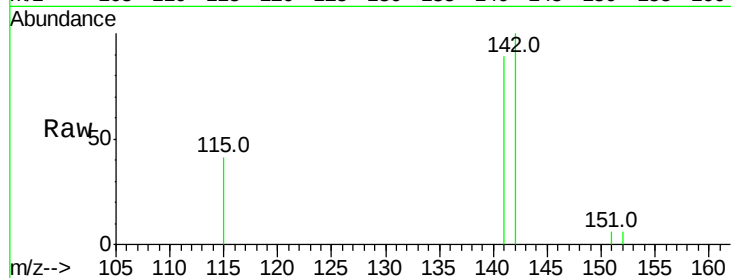
Tot Ion:142 Resp: 1731

Ion Ratio Lower Upper

142 100

141 88.8 72.6 108.8

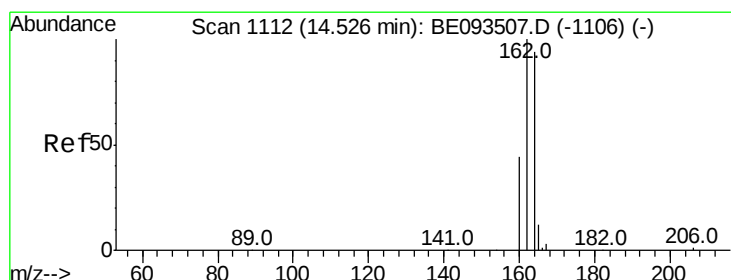
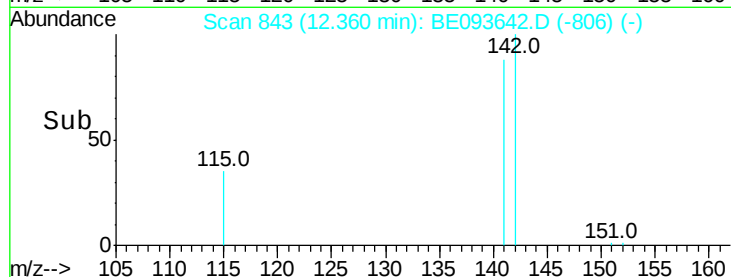
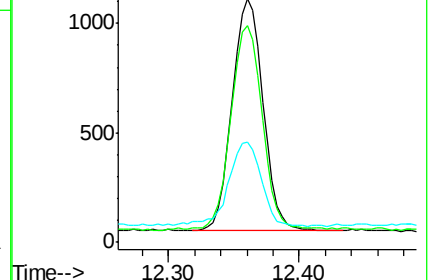
115 41.2 32.2 48.2



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



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.53 min Scan# 1112

Delta R.T. -0.00 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

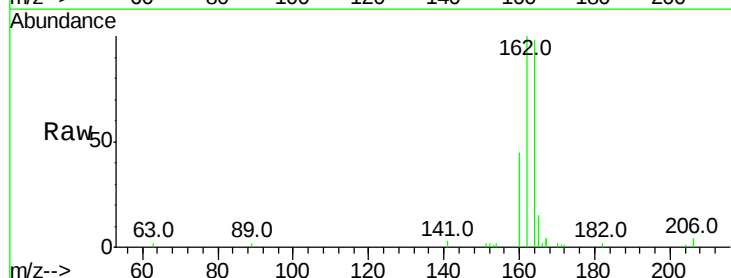
Tgt Ion:164 Resp: 7161

Ion Ratio Lower Upper

164 100

162 102.2 84.6 127.0

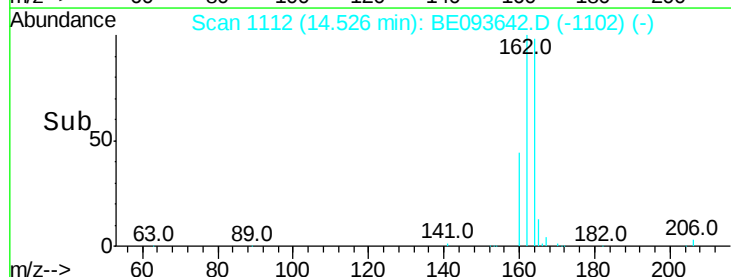
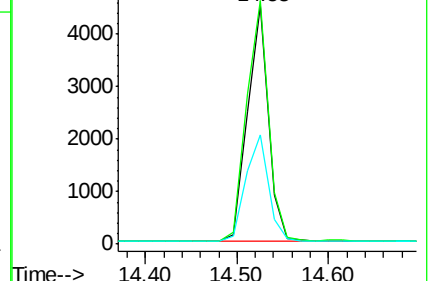
160 45.8 41.8 62.6

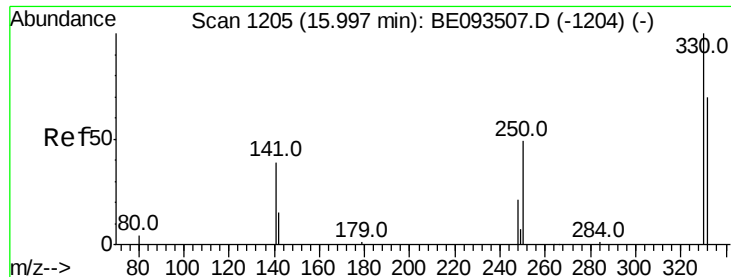


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

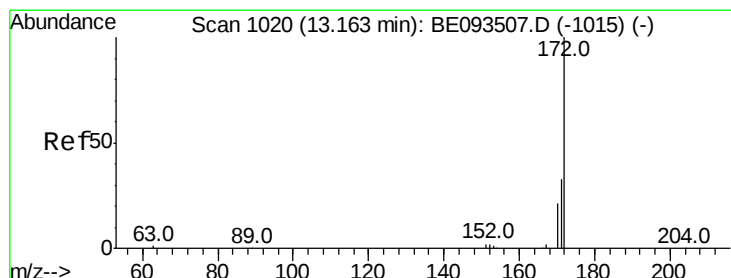
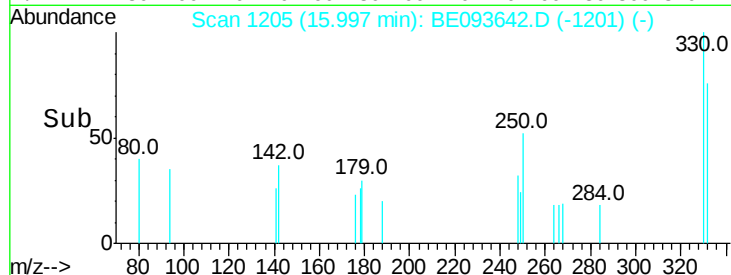
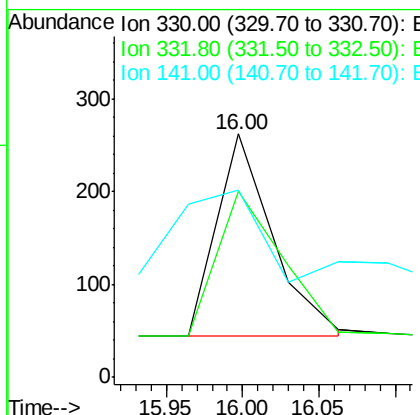
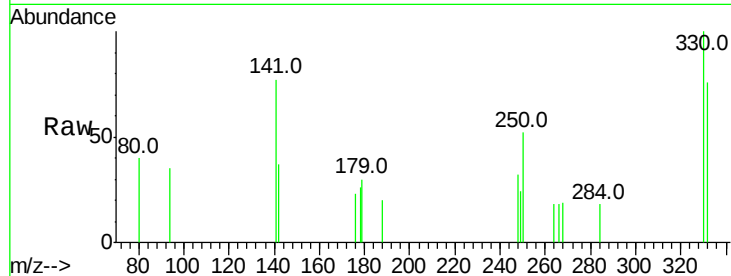




#14  
 2,4,6-Tribromophenol  
 Concen: 0.363 ng  
 RT: 16.00 min Scan# 1205  
 Delta R.T. 0.00 min  
 Lab File: BE093642.D  
 Acq: 3 Aug 2017 00:53

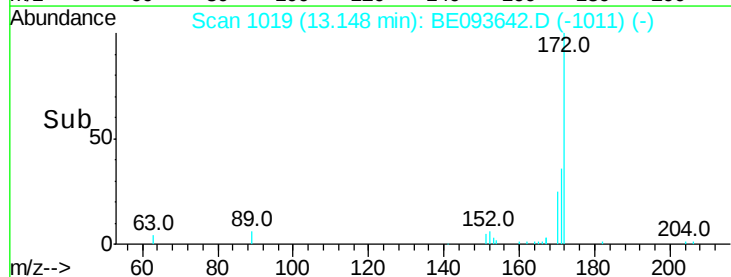
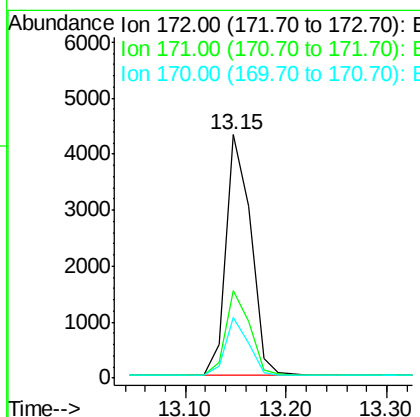
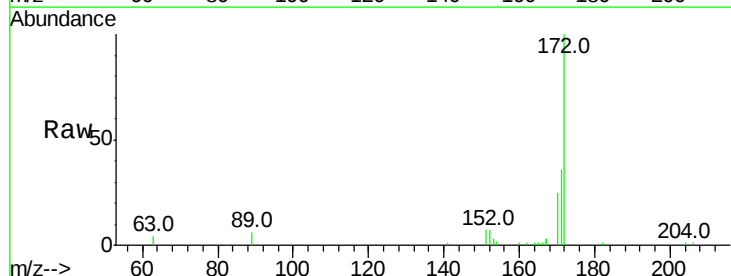
Instrument :  
 BNA\_E  
 ClientSampleId :  
 CSSB-30-1

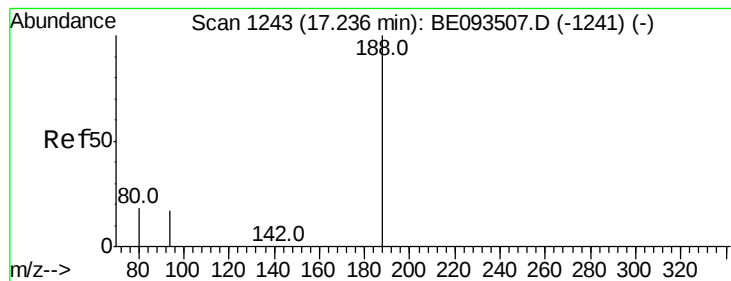
Tot Ion:330 Resp: 548  
 Ion Ratio Lower Upper  
 330 100  
 332 84.5 77.7 116.5  
 141 64.6 56.2 84.4



#15  
 2-Fluorobiphenyl  
 Concen: 0.257 ng  
 RT: 13.15 min Scan# 1019  
 Delta R.T. -0.01 min  
 Lab File: BE093642.D  
 Acq: 3 Aug 2017 00:53

Tgt Ion:172 Resp: 7376  
 Ion Ratio Lower Upper  
 172 100  
 171 35.9 29.8 44.6  
 170 25.1 20.7 31.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.24 min Scan# 1243

Delta R.T. -0.00 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

Instrument :

BNA\_E

ClientSampleId :

CSSB-30-1

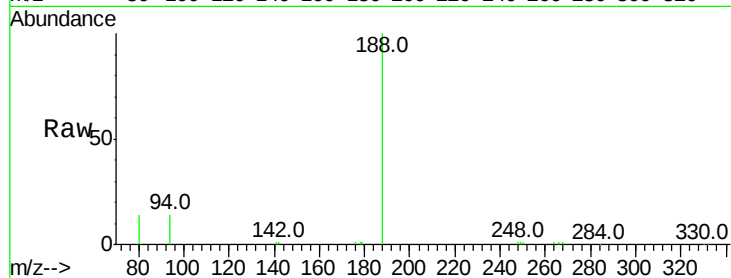
Tot Ion:188 Resp: 20170

Ion Ratio Lower Upper

188 100

94 13.7 11.3 16.9

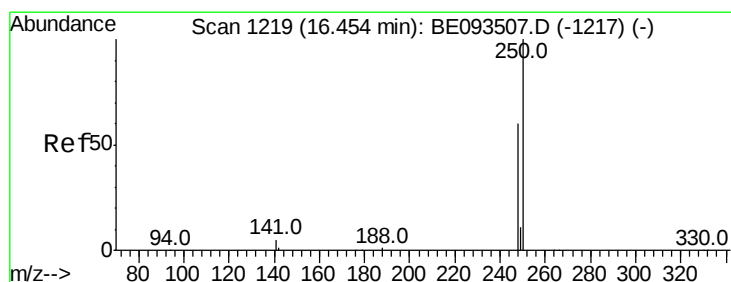
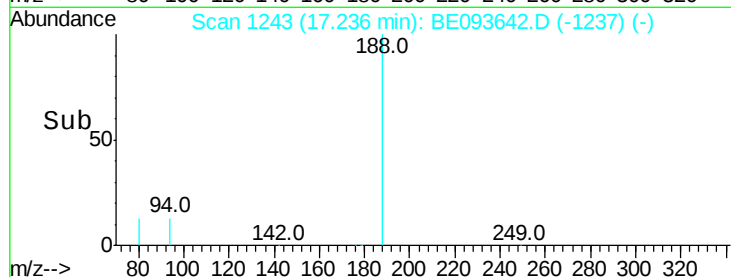
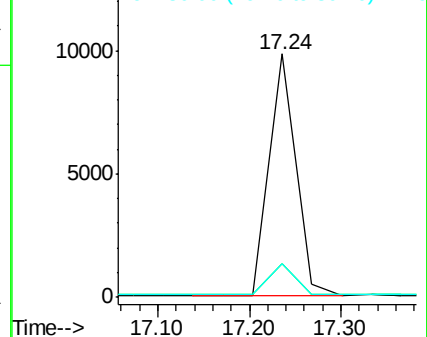
80 14.0 11.7 17.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: Below Cal

RT: 16.42 min Scan# 1218

Delta R.T. -0.03 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

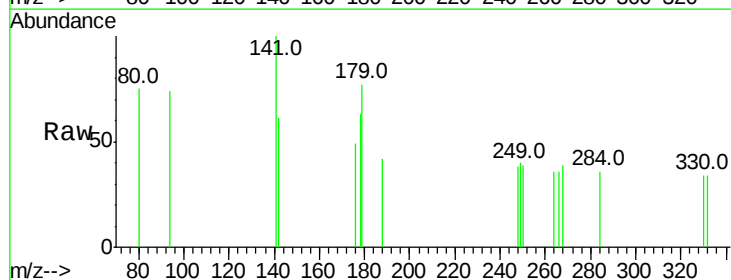
Tgt Ion:248 Resp: 12

Ion Ratio Lower Upper

248 100

250 104.0 128.0 192.0#

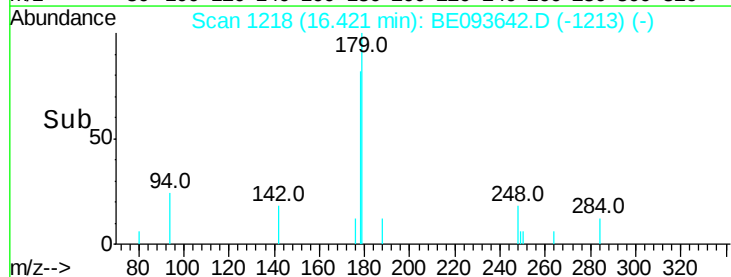
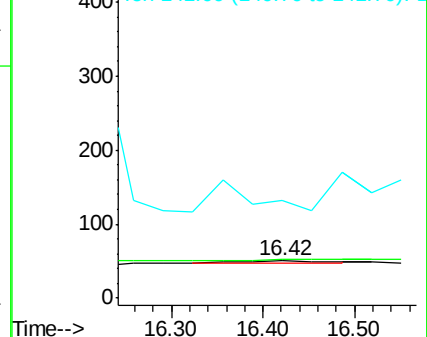
141 264.0 12.0 18.0#

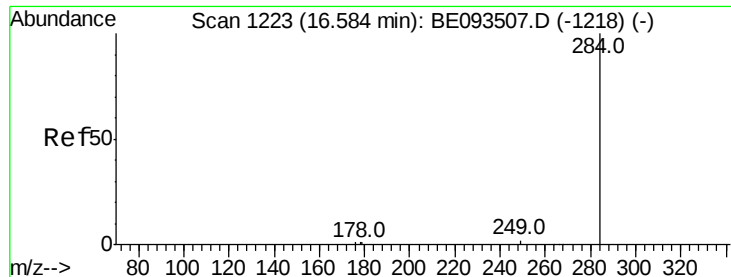


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: Below Cal

RT: 16.52 min Scan# 1221

Delta R.T. -0.07 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

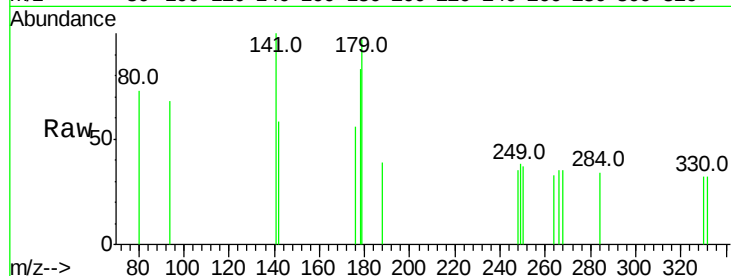
Instrument :

BNA\_E

ClientSampleId :

CSSB-30-1

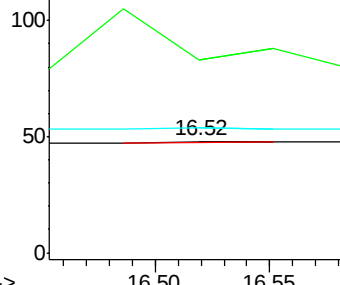
|             |       |       |     |
|-------------|-------|-------|-----|
| Tot Ion:284 | Resp: | 2     |     |
| Ion Ratio   | Lower | Upper |     |
| 284         | 100   |       |     |
| 142         | 0.0   | 0.0   | 0.0 |
| 249         | 0.0   | 0.0   | 0.0 |



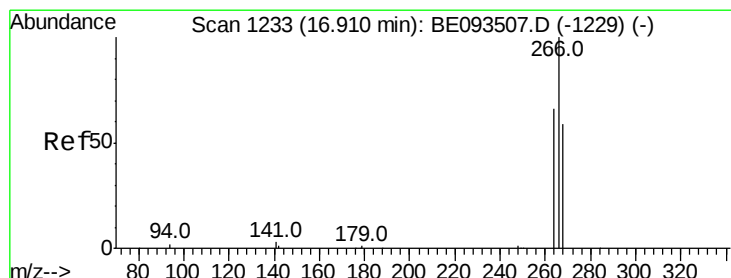
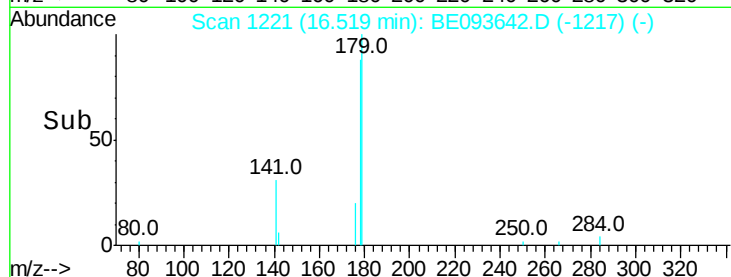
Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



Time-->



#22

Pentachlorophenol

Concen: 0.157 ng

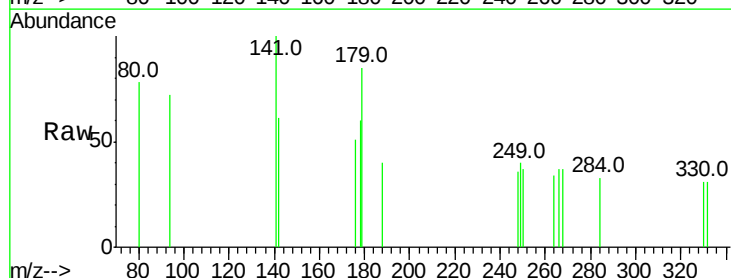
RT: 16.91 min Scan# 1233

Delta R.T. -0.00 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

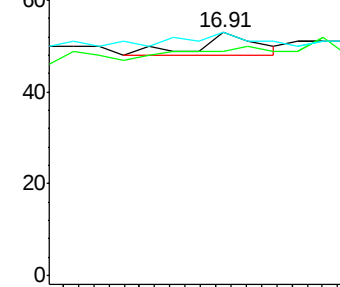
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:266 | Resp: | 27    |
| Ion | Ratio   | Lower | Upper |
| 266 | 100     |       |       |
| 264 | 92.5    | 56.0  | 84.0# |
| 268 | 100.0   | 52.0  | 78.0# |



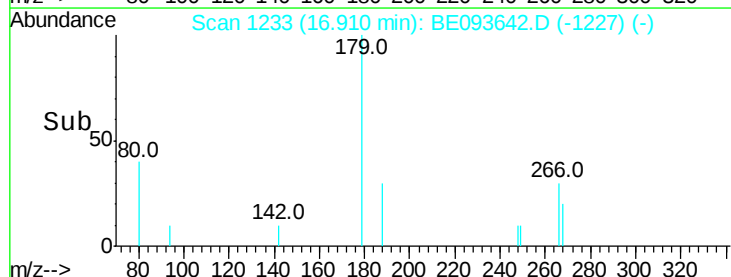
Abundance Ion 266.00 (265.70 to 266.70): E

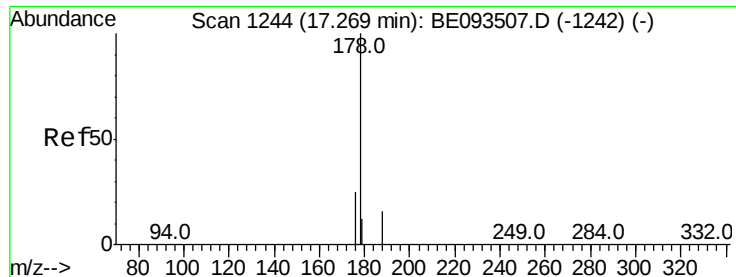
Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



Time-->





#23

Phenanthrene

Concen: 0.037 ng

RT: 17.27 min Scan# 1244

Delta R.T. -0.00 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

Instrument :

BNA\_E

ClientSampleId :

CSSB-30-1

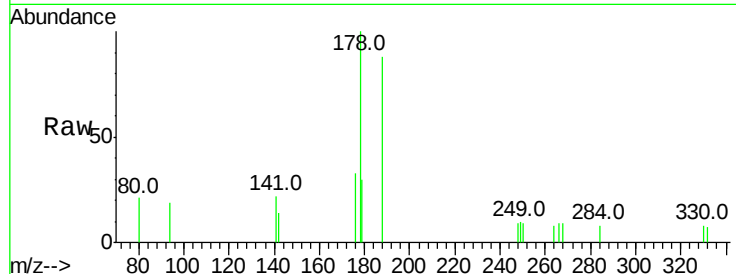
Tot Ion:178 Resp: 1643

Ion Ratio Lower Upper

178 100

176 19.1 15.0 22.4

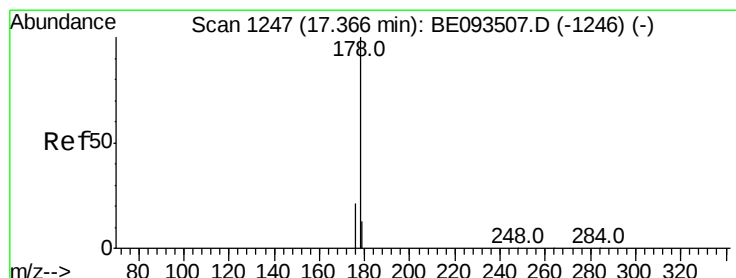
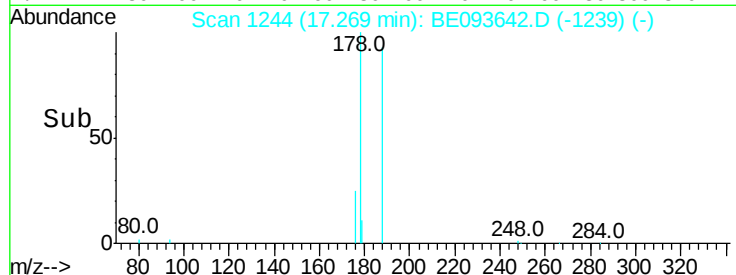
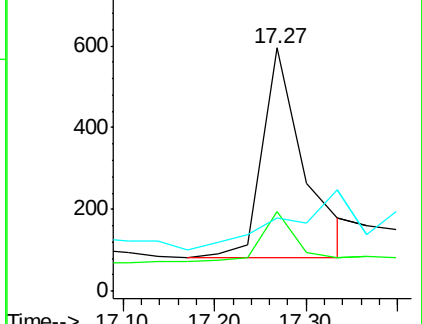
179 0.0 12.7 19.1#



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: 0.025 ng

RT: 17.27 min Scan# 1244

Delta R.T. -0.10 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

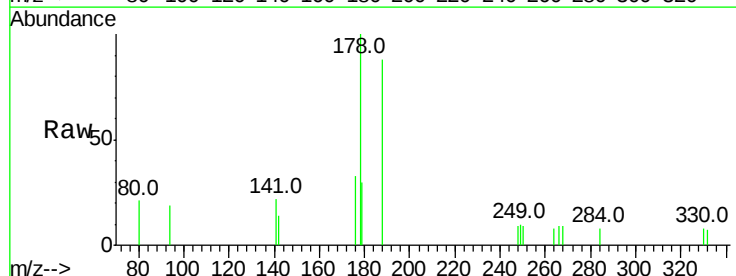
Tgt Ion:178 Resp: 1535

Ion Ratio Lower Upper

178 100

176 17.1 14.6 22.0

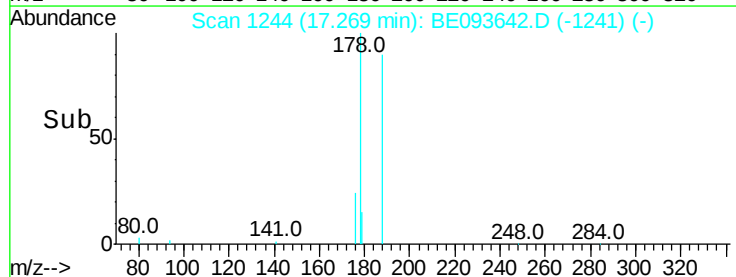
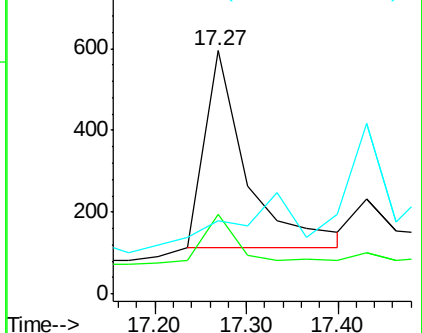
179 0.0 12.0 18.0#

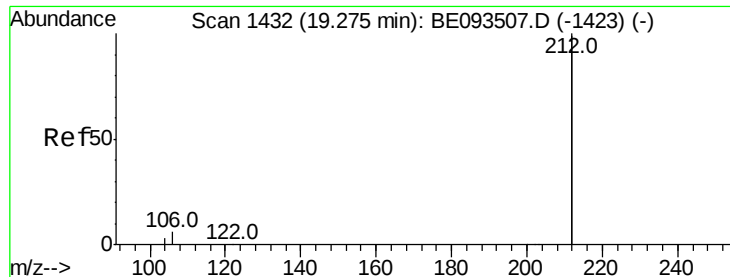


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.270 ng

RT: 19.27 min Scan# 1432

Delta R.T. -0.00 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

Instrument :

BNA\_E

ClientSampleId :

CSSB-30-1

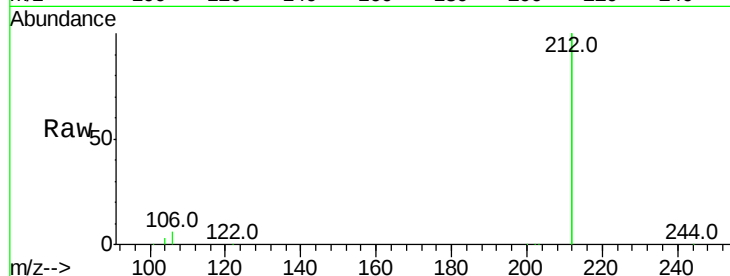
Tot Ion:212 Resp: 61752

Ion Ratio Lower Upper

212 100

106 3.4 2.4 3.6

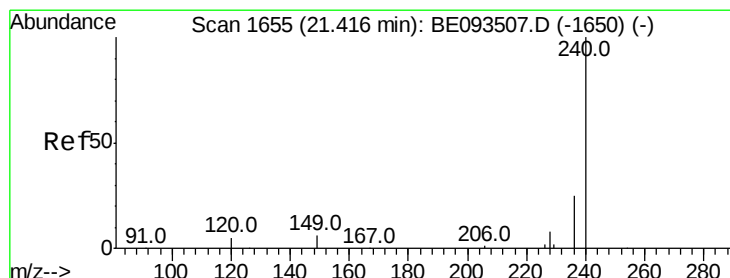
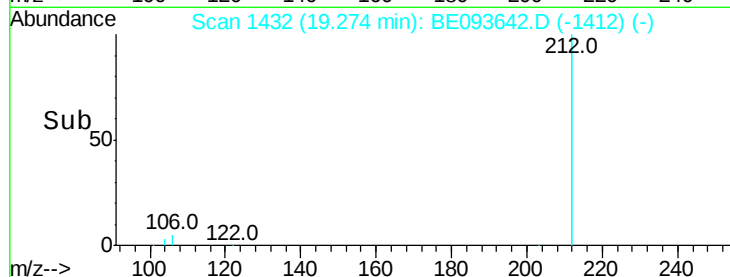
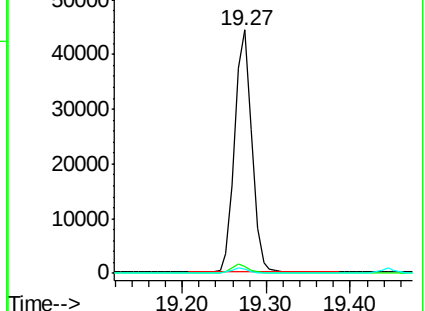
104 1.9 1.6 2.4



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



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.40 min Scan# 1654

Delta R.T. -0.01 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

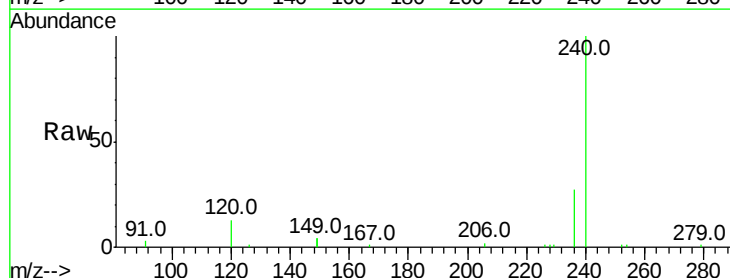
Tgt Ion:240 Resp: 20311

Ion Ratio Lower Upper

240 100

120 12.6 4.6 7.0#

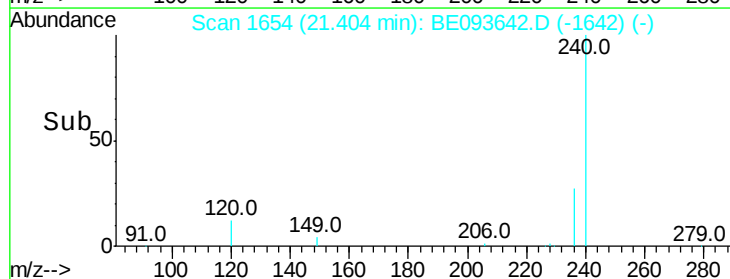
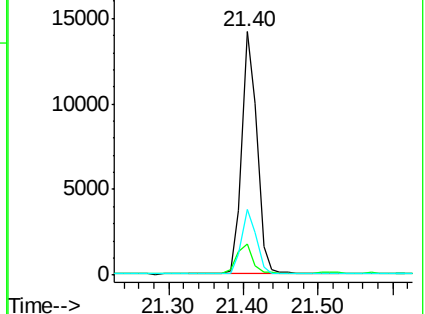
236 26.9 20.8 31.2

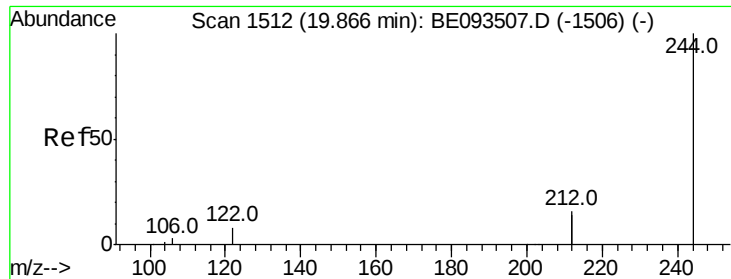


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.297 ng

RT: 19.86 min Scan# 1511

Delta R.T. -0.01 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

Instrument :

BNA\_E

ClientSampleId :

CSSB-30-1

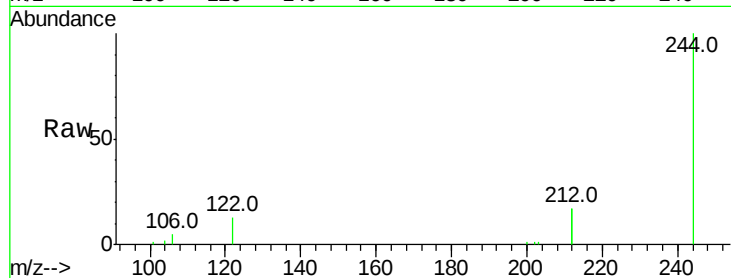
Tot Ion:244 Resp: 10836

Ion Ratio Lower Upper

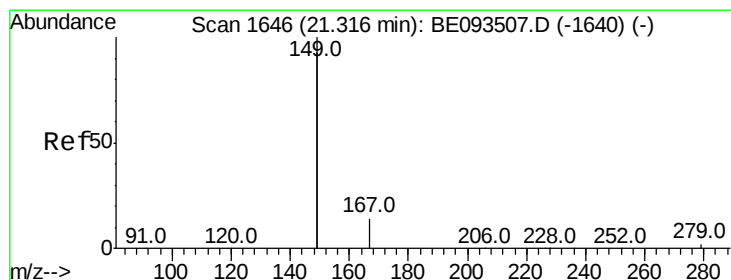
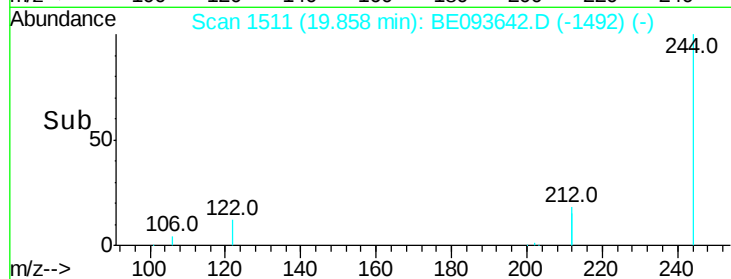
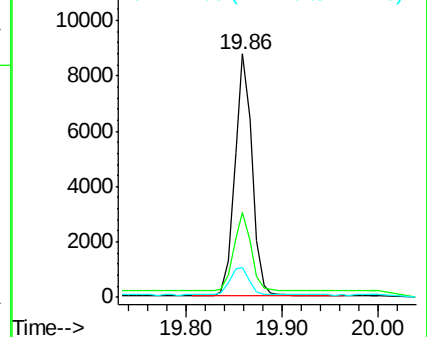
244 100

212 34.9 10.6 16.0#

122 12.5 15.4 23.0#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.254 ng

RT: 21.30 min Scan# 1645

Delta R.T. -0.01 min

Lab File: BE093642.D

Acq: 3 Aug 2017 00:53

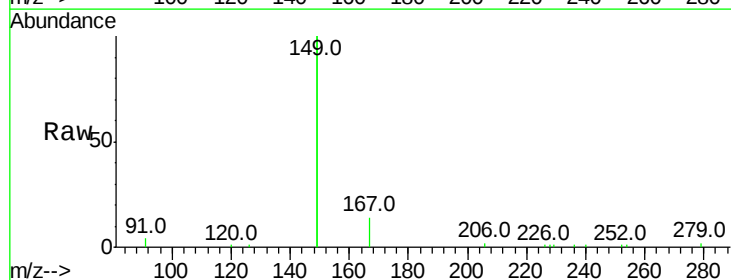
Tgt Ion:149 Resp: 20665

Ion Ratio Lower Upper

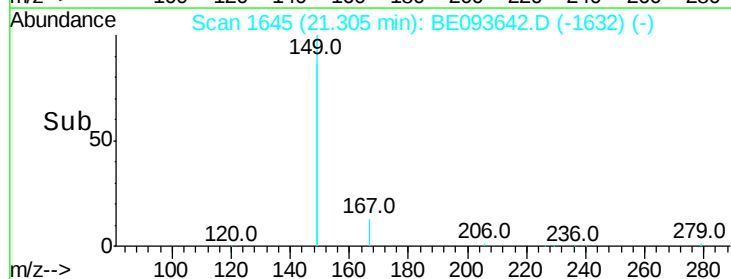
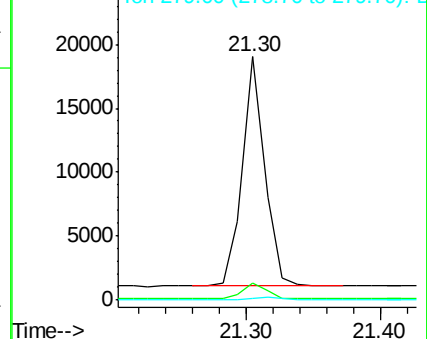
149 100

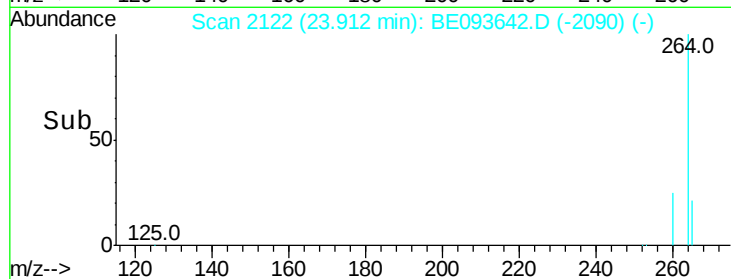
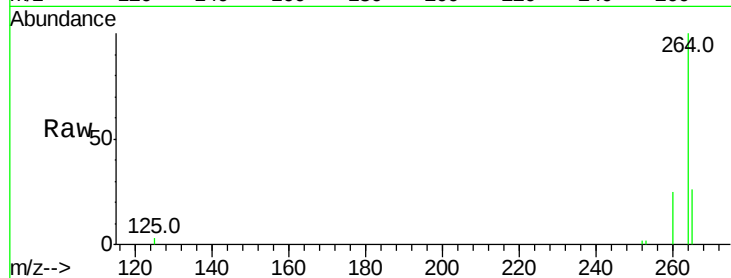
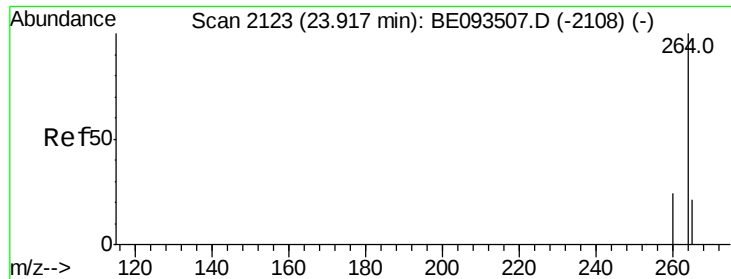
167 7.1 4.8 7.2

279 0.9 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





#34  
 Pervlene-d12  
 Concen: 0.400 ng  
 RT: 23.91 min Scan# 2122  
 Delta R.T. -0.00 min  
 Lab File: BE093642.D  
 Acq: 3 Aug 2017 00:53

Instrument :  
 BNA\_E  
 ClientSampleId :  
 CSSB-30-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.3  | 21.0  | 31.4  |
| 265     | 25.8  | 24.6  | 36.8  |

