

Data File : BE093395.D  
Acq On : 1 Jul 2017 16:42  
Operator : SJ/JU  
Sample : I3984-01  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
MH-117N-20170627

Quant Time: Jul 03 05:11:17 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE070117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jul 01 15:43:24 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.94  | 152  | 3097     | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.74 | 136  | 14436    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.54 | 164  | 9037     | 0.40 | ng    | -0.02    |
| 19) Phenanthrene-d10      | 17.27 | 188  | 31031    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.43 | 240  | 38833    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.94 | 264  | 34417    | 0.40 | ng    | 0.00     |

|                             |       |     |        |      |    |       |
|-----------------------------|-------|-----|--------|------|----|-------|
| System Monitoring Compounds |       |     |        |      |    |       |
| 4) 2-Fluorophenol           | 5.53  | 112 | 1735   | 0.18 | ng | 0.00  |
| 5) Phenol-d6                | 7.10  | 99  | 1712   | 0.12 | ng | 0.00  |
| 8) Nitrobenzene-d5          | 9.08  | 82  | 3530   | 0.41 | ng | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.31 | 152 | 8285   | 0.36 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 0.00  | 330 | 0      | 0.00 | ng |       |
| 15) 2-Fluorobiphenyl        | 13.18 | 172 | 29229  | 0.83 | ng | 0.00  |
| 25) Fluoranthene-d10        | 19.29 | 212 | 139886 | 0.49 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.88 | 244 | 35752  | 0.50 | ng | 0.00  |

|                                |       |     |       |      |    |        |
|--------------------------------|-------|-----|-------|------|----|--------|
| Target Compounds               |       |     |       |      |    | Qvalue |
| 2) 1,4-Dioxane                 | 3.45  | 88  | 276   | 0.04 | ng | # 1    |
| 3) n-Nitrosodimethylamine      | 3.75  | 42  | 168   | 0.16 | ng | # 1    |
| 9) Naphthalene                 | 10.77 | 128 | 4391  | 0.03 | ng | # 79   |
| 22) Pentachlorophenol          | 16.91 | 266 | 41    | 0.05 | ng | # 82   |
| 32) Bis(2-ethylhexyl)phthalate | 21.34 | 149 | 28885 | 0.18 | ng | # 66   |

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

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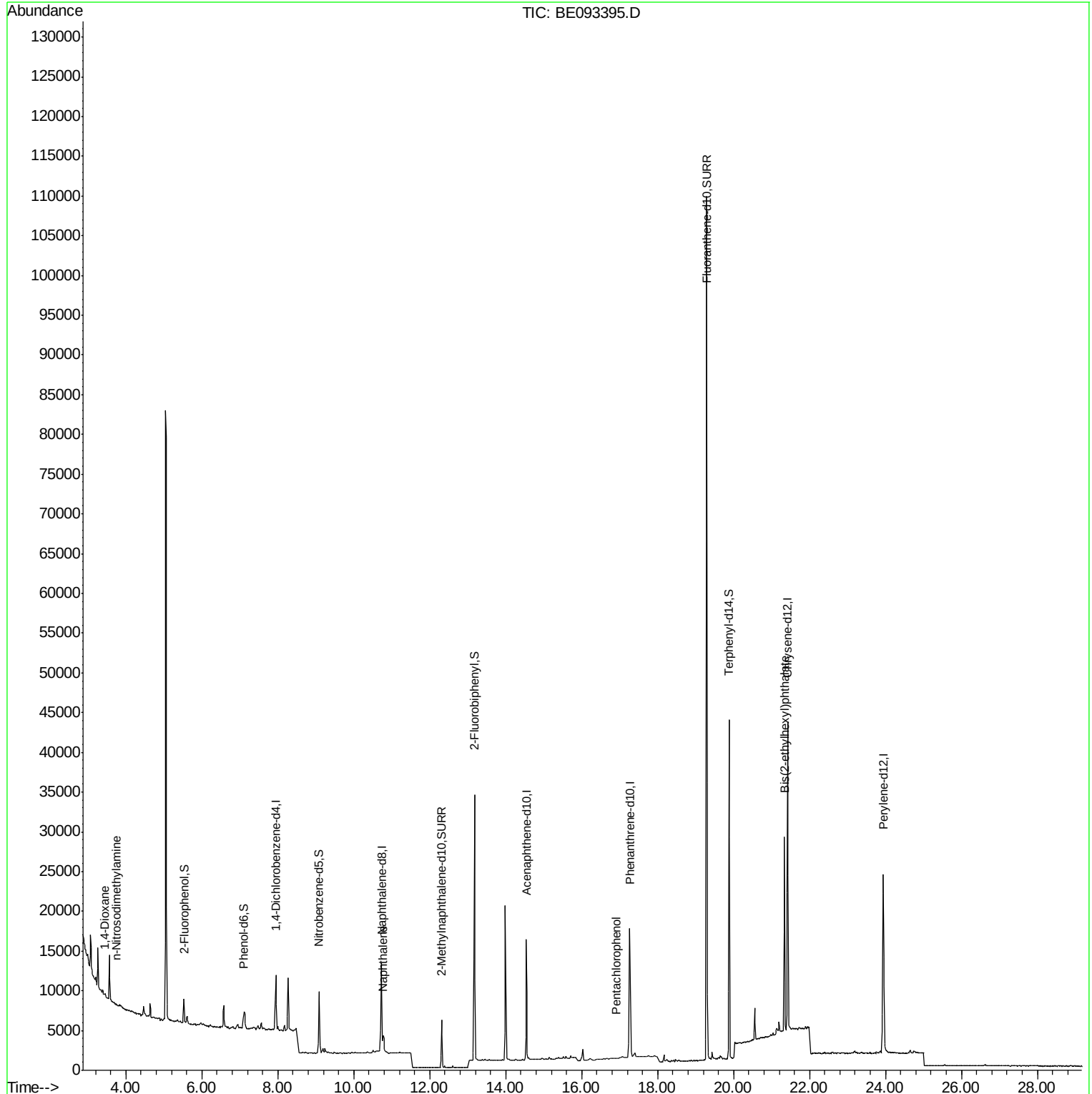
Quant Time: Jul 03 05:11:17 2017

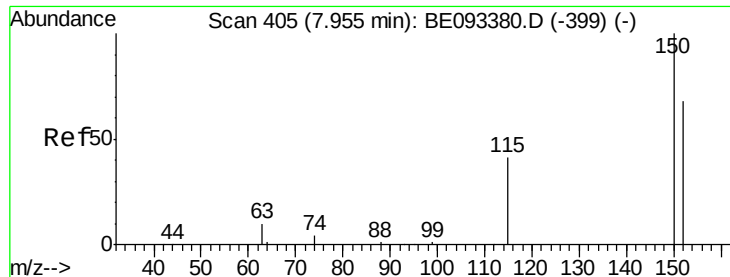
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE070117.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Sat Jul 01 15:43:24 2017

Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.94 min Scan# 404

Delta R.T. -0.01 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

Instrument :

BNA\_E

ClientSampleId :

MH-117N-20170627

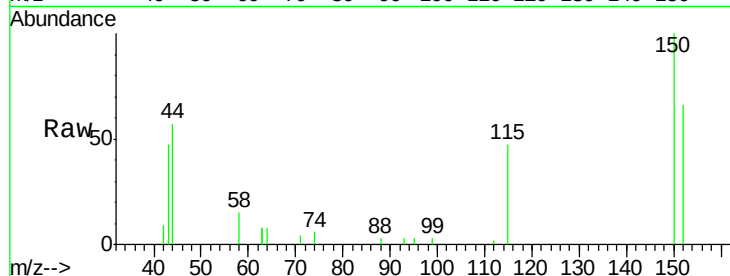
Tgt Ion:152 Resp: 3097

Ion Ratio Lower Upper

152 100

150 152.1 125.1 187.7

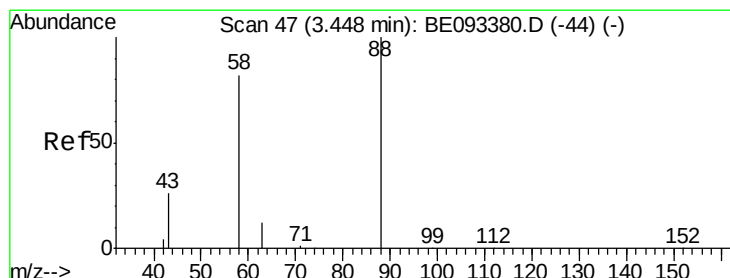
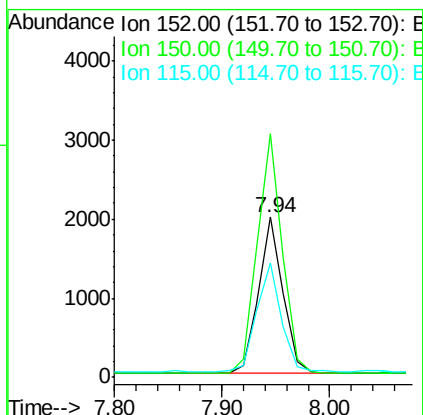
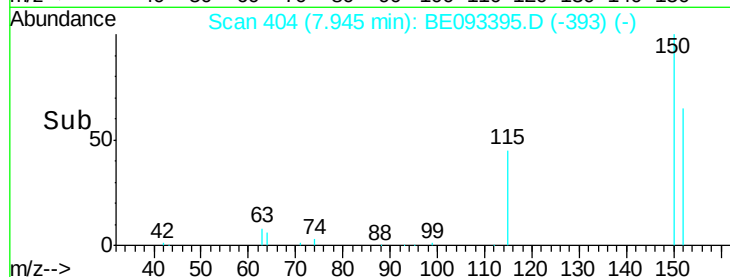
115 71.7 55.7 83.5



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



#2

1,4-Dioxane

Concen: 0.04 ng

RT: 3.45 min Scan# 47

Delta R.T. 0.00 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

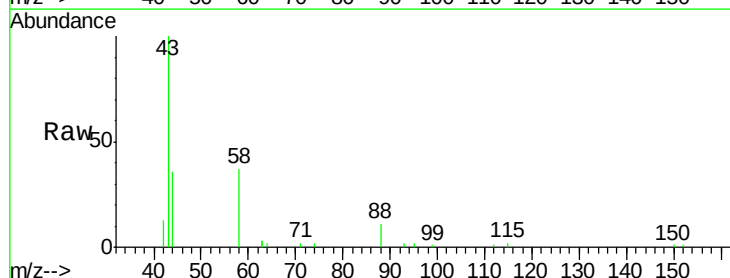
Tgt Ion: 88 Resp: 276

Ion Ratio Lower Upper

88 100

58 199.6 62.2 93.4#

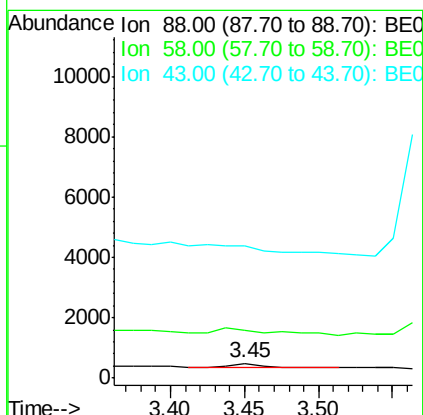
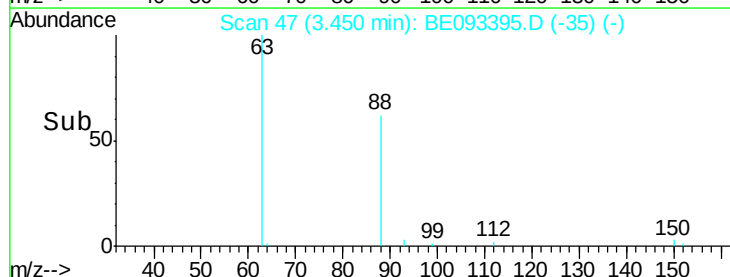
43 0.0 23.2 34.8#

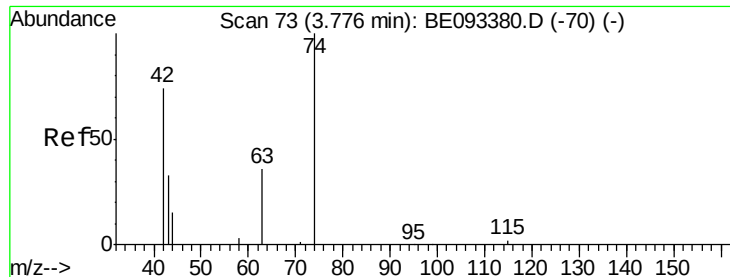


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.16 ng

RT: 3.75 min Scan# 71

Delta R.T. -0.02 min

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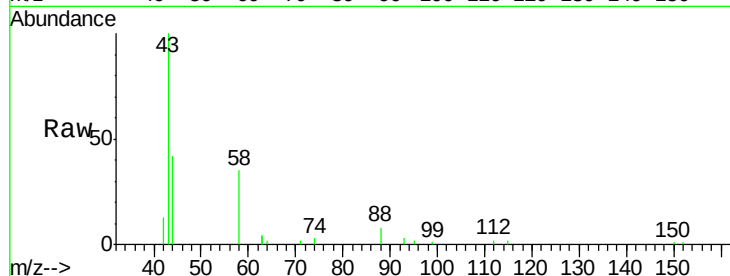
Tgt Ion: 42 Resp: 168

Ion Ratio Lower Upper

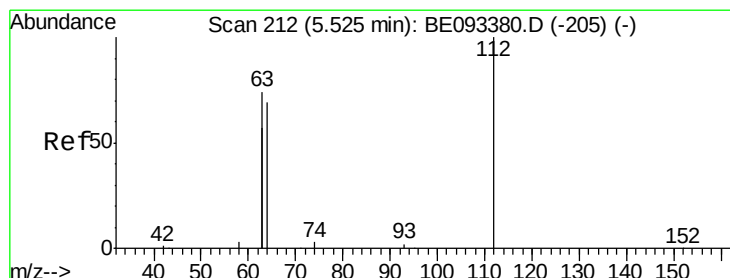
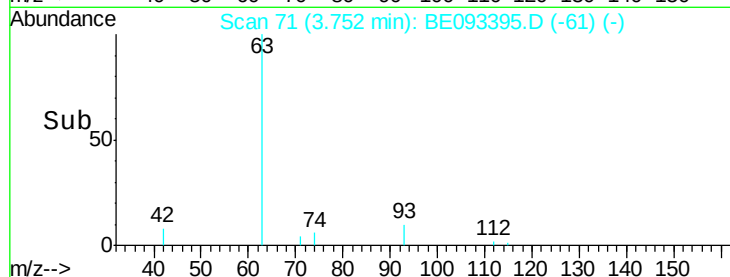
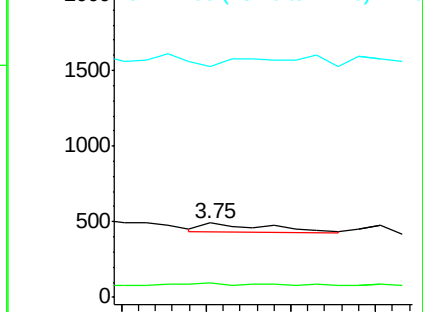
42 100

74 13.7 99.1 148.7#

44 81.0 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: 0.18 ng

RT: 5.53 min Scan# 212

Delta R.T. 0.00 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

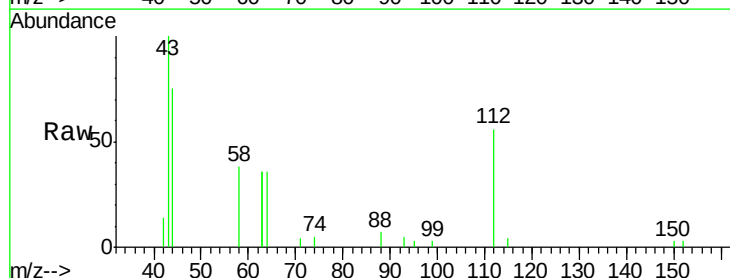
Tgt Ion: 112 Resp: 1735

Ion Ratio Lower Upper

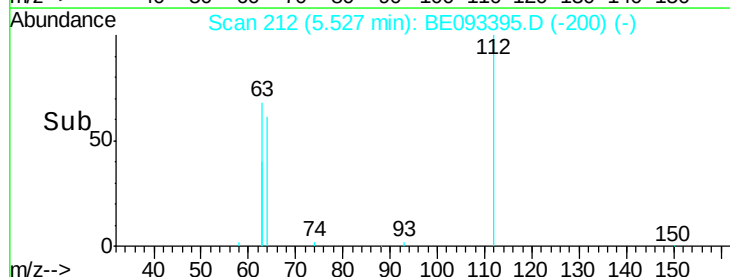
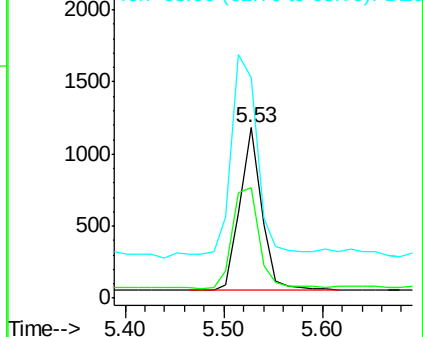
112 100

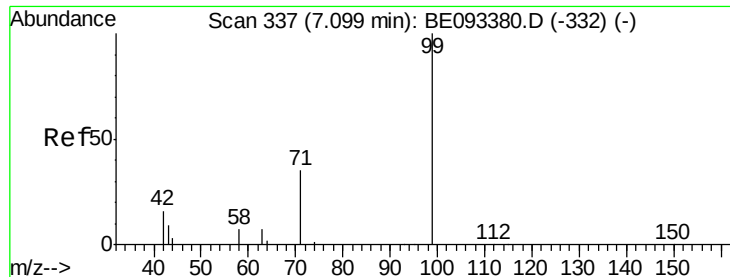
64 75.0 56.4 84.6

63 152.7 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: 0.12 ng

RT: 7.10 min Scan# 337

Delta R.T. 0.00 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

Instrument :

BNA\_E

ClientSampleId :

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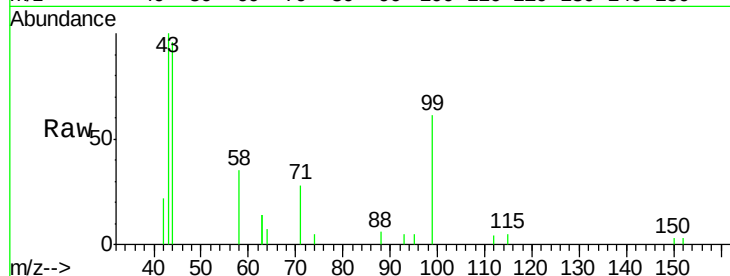
Tgt Ion: 99 Resp: 1712

Ion Ratio Lower Upper

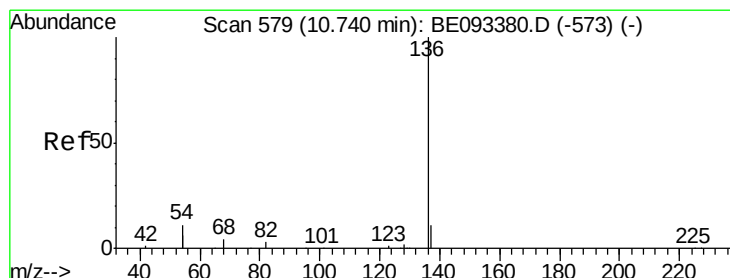
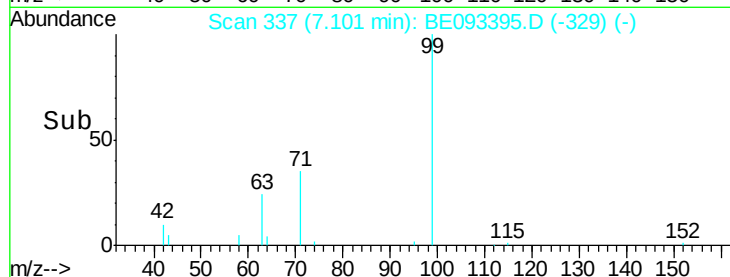
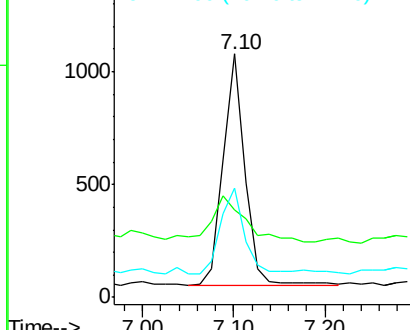
99 100

42 31.5 0.0 0.0#

71 40.5 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: 0.40 ng

RT: 10.74 min Scan# 579

Delta R.T. -0.00 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

Tgt Ion: 136 Resp: 14436

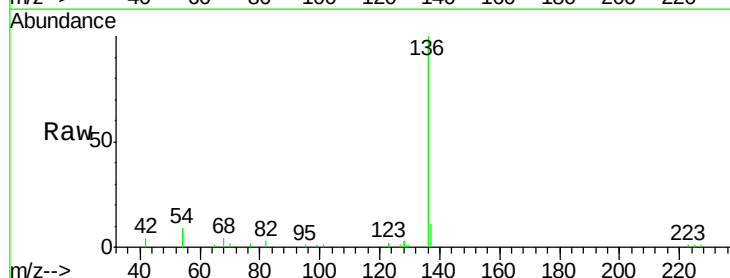
Ion Ratio Lower Upper

136 100

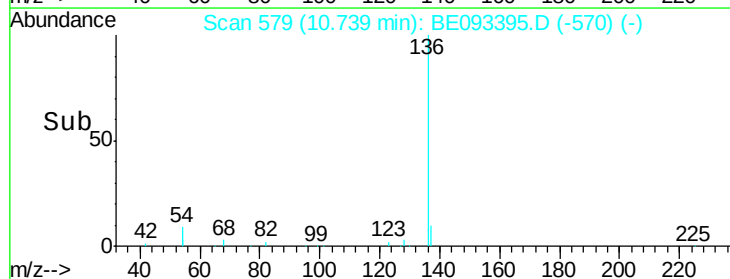
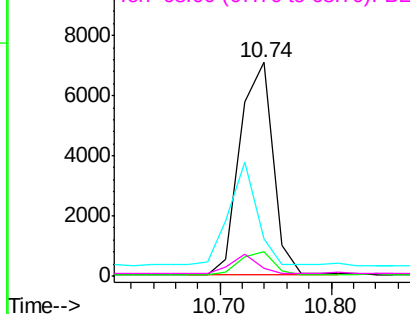
137 11.1 9.8 14.8

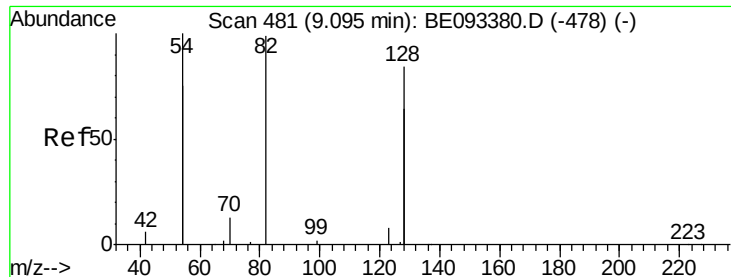
54 17.1 10.3 15.5#

68 3.9 9.0 13.4#



Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BE0  
Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 0.41 ng

RT: 9.08 min Scan# 480

Delta R.T. -0.02 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

Instrument :

BNA\_E

ClientSampleId :

MH-117N-20170627

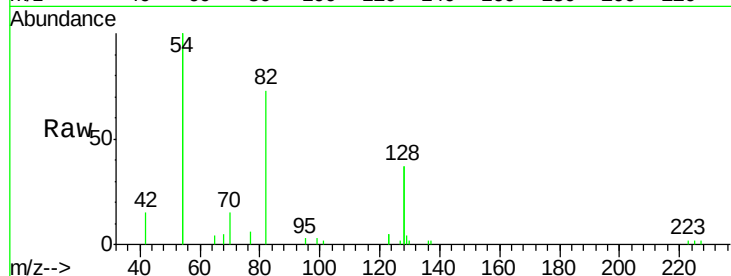
Tgt Ion: 82 Resp: 3530

Ion Ratio Lower Upper

82 100

128 100.4 17.0 25.4#

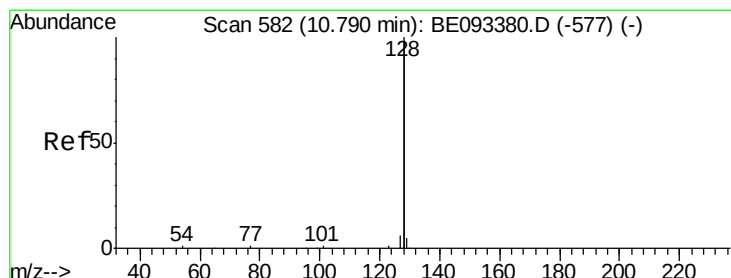
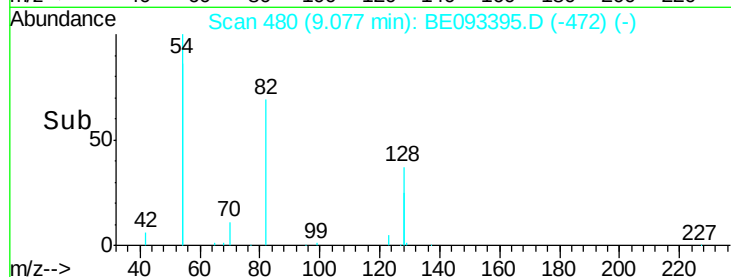
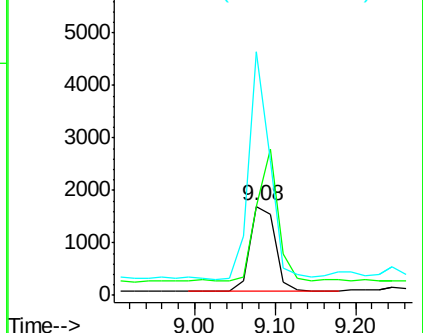
54 274.3 53.8 80.6#



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.03 ng

RT: 10.77 min Scan# 581

Delta R.T. -0.02 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

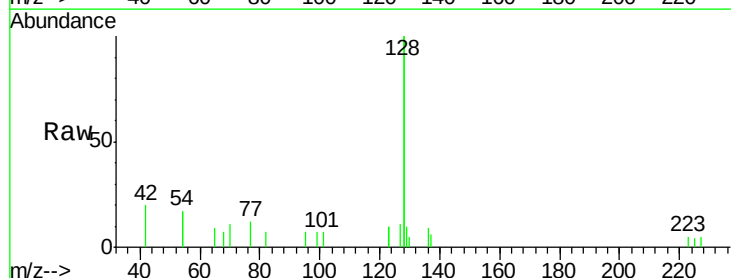
Tgt Ion: 128 Resp: 4391

Ion Ratio Lower Upper

128 100

129 5.1 11.4 17.0#

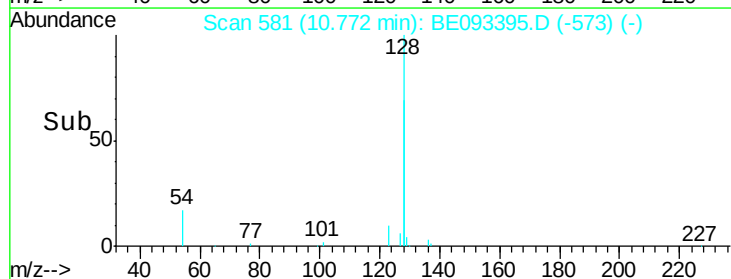
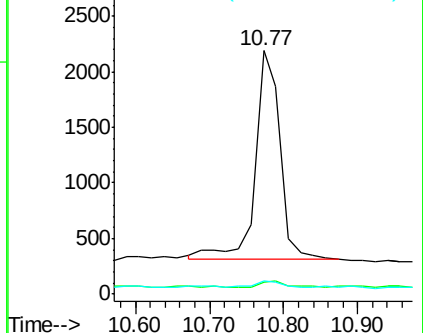
127 5.7 11.2 16.8#

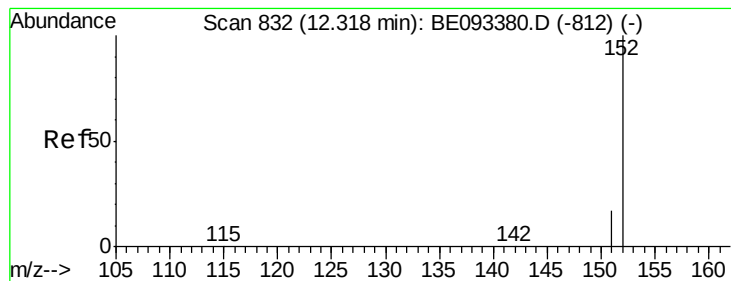


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.36 ng

RT: 12.31 min Scan# 831

Delta R.T. -0.00 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

Instrument :

BNA\_E

ClientSampleId :

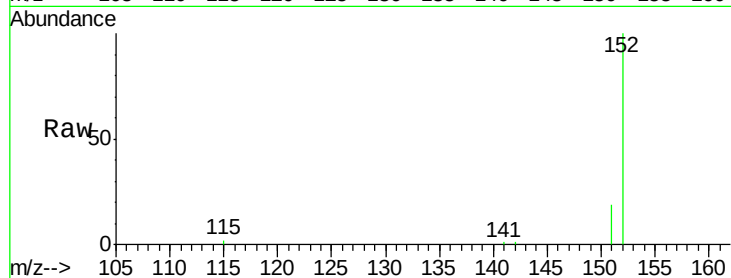
MH-117N-20170627

Tgt Ion:152 Resp: 8285

Ion Ratio Lower Upper

152 100

151 19.4 15.1 22.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.31

6000

5000

4000

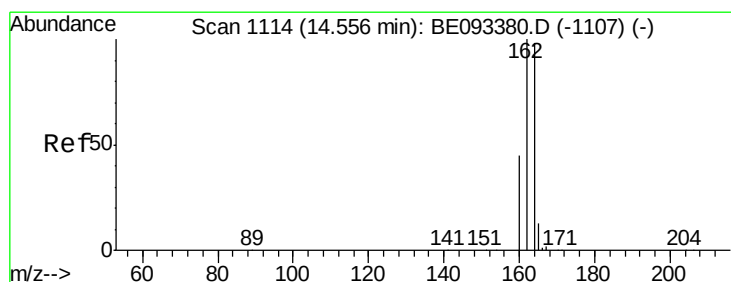
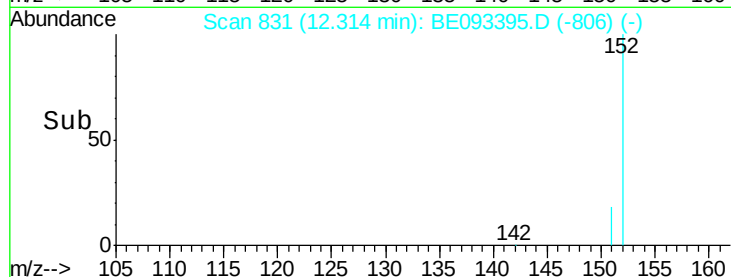
3000

2000

1000

0

Time--> 12.25 12.30 12.35



#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 14.54 min Scan# 1113

Delta R.T. -0.02 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

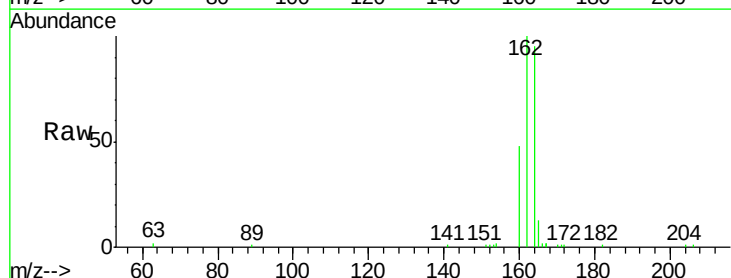
Tgt Ion:164 Resp: 9037

Ion Ratio Lower Upper

164 100

162 105.3 84.6 127.0

160 50.4 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

14.54

8000

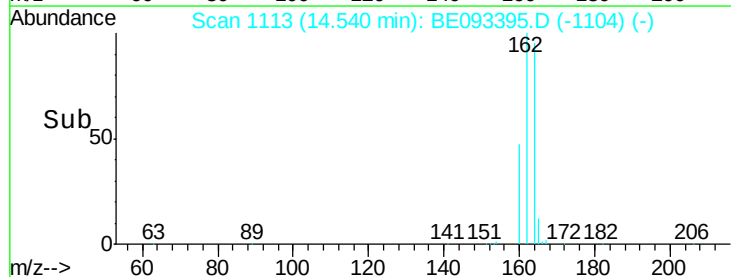
6000

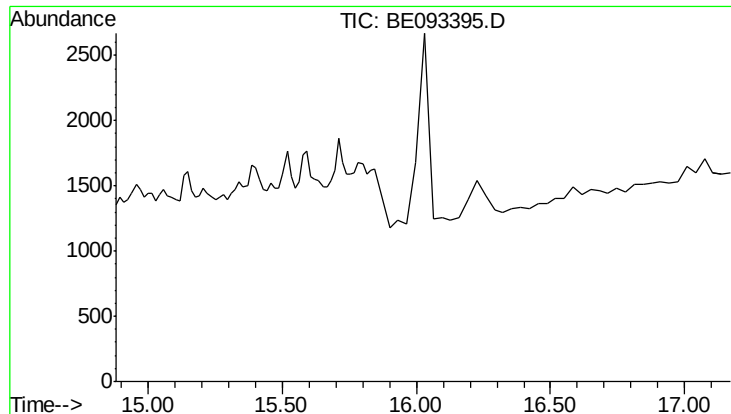
4000

2000

0

Time--> 14.40 14.50 14.60 14.70





#14

2,4,6-Tribromophenol

Concen: 0.00 ng

Expected RT: 16.03 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

Instrument :

BNA\_E

ClientSampleId :

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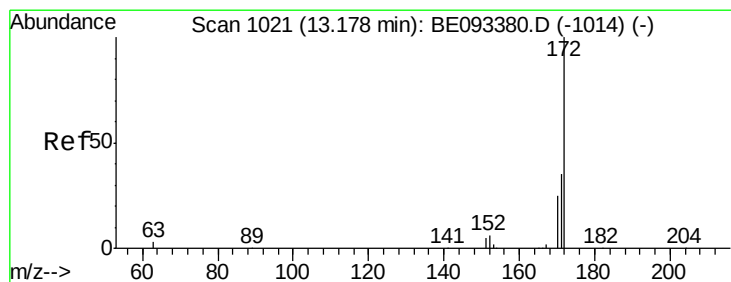
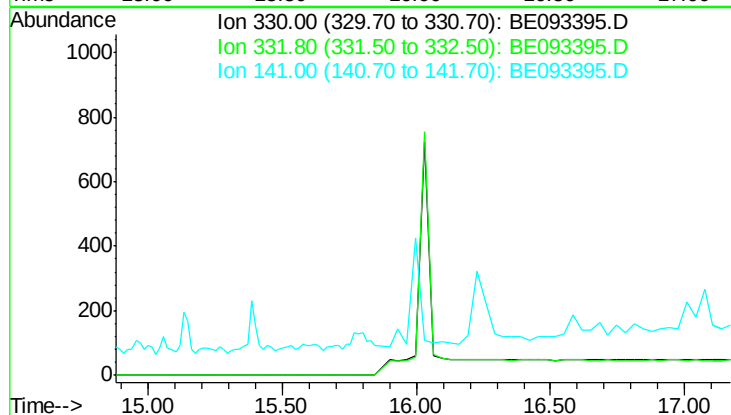
Tgt Ion: 330

Sig Exp Ratio

330 100

332 97.1

141 70.3



#15

2-Fluorobiphenyl

Concen: 0.83 ng

RT: 13.18 min Scan# 1021

Delta R.T. -0.00 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

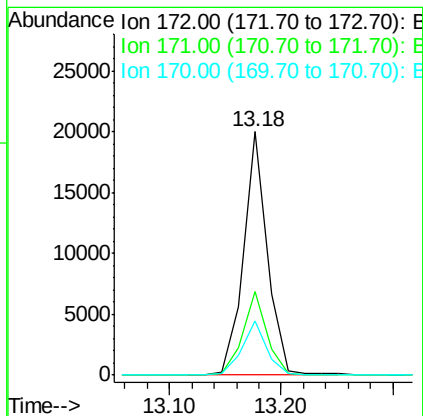
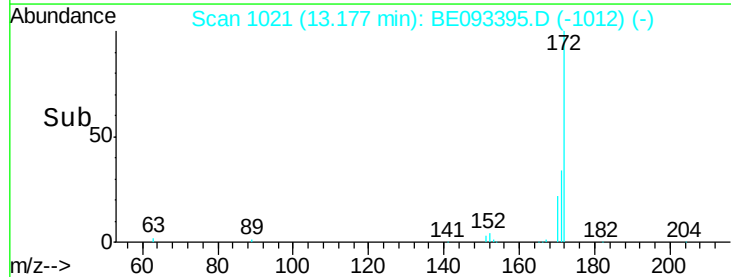
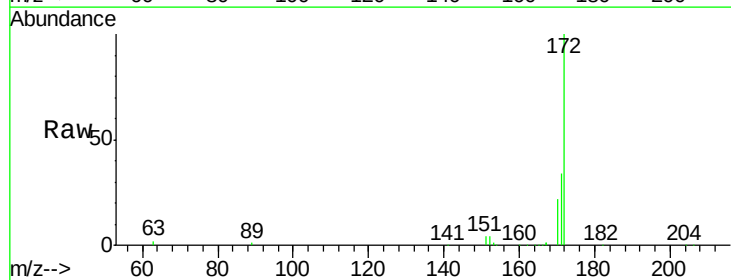
Tgt Ion: 172 Resp: 29229

Ion Ratio Lower Upper

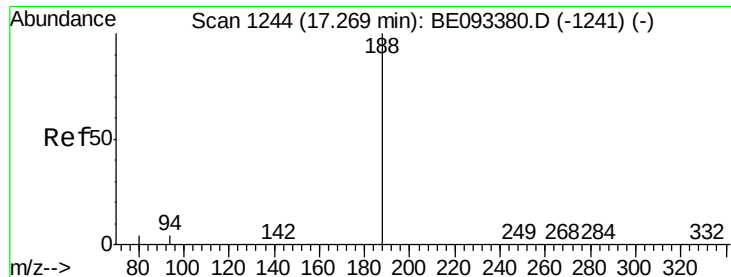
172 100

171 34.3 29.8 44.6

170 22.1 20.7 31.1







#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.27 min Scan# 1244

Delta R.T. -0.00 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

Instrument :

BNA\_E

ClientSampleId :

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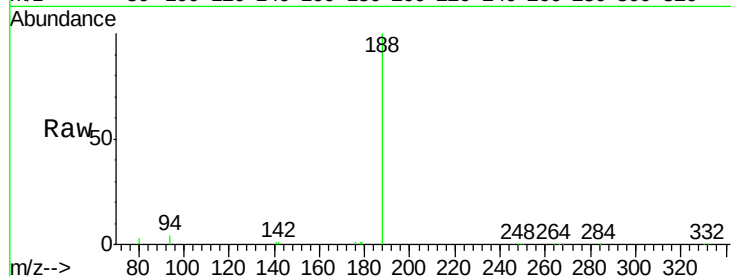
Tgt Ion:188 Resp: 31031

Ion Ratio Lower Upper

188 100

94 4.2 11.3 16.9#

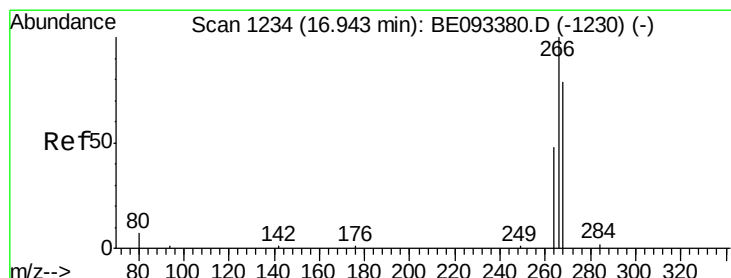
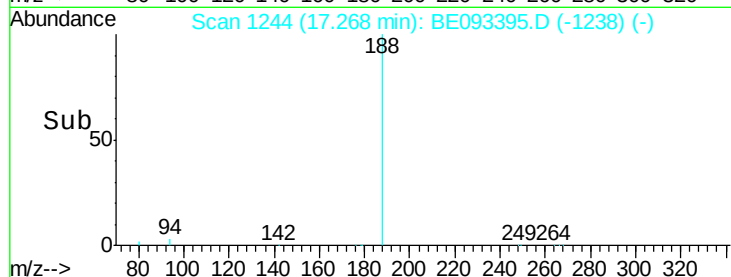
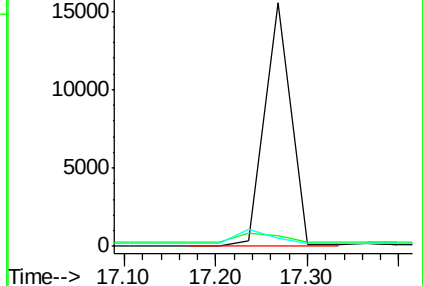
80 3.1 11.7 17.5#



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



#22

Pentachlorophenol

Concen: 0.05 ng

RT: 16.91 min Scan# 1233

Delta R.T. -0.03 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

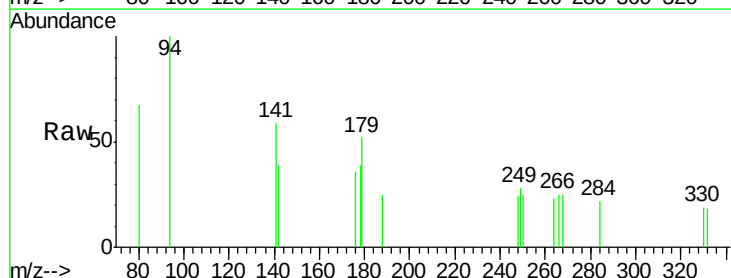
Tgt Ion:266 Resp: 41

Ion Ratio Lower Upper

266 100

264 93.4 58.2 87.2#

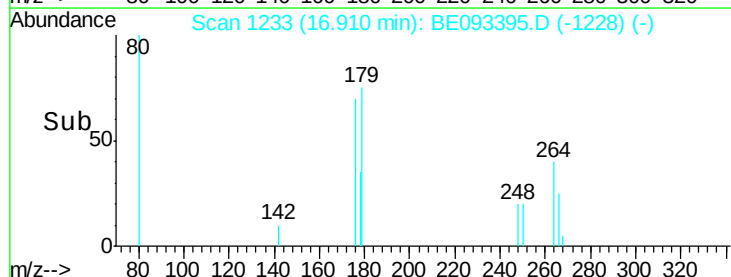
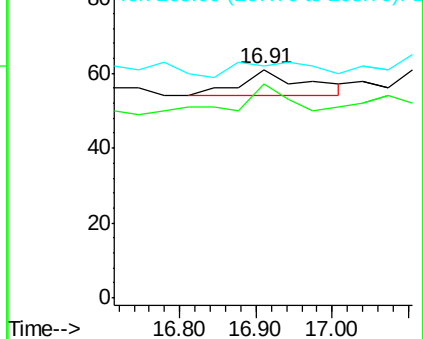
268 101.6 71.9 107.9

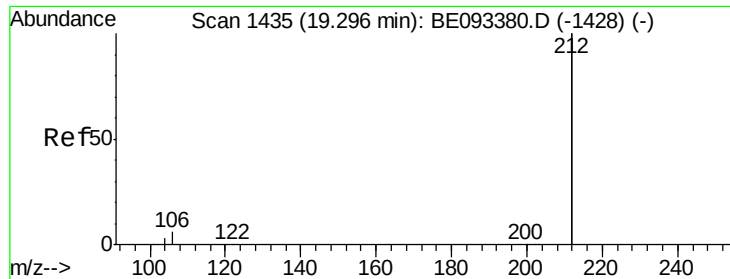


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#25

Fluoranthene-d10

Concen: 0.49 ng

RT: 19.29 min Scan# 1434

Delta R.T. -0.01 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

Instrument :

BNA\_E

ClientSampleId :

MH-117N-20170627

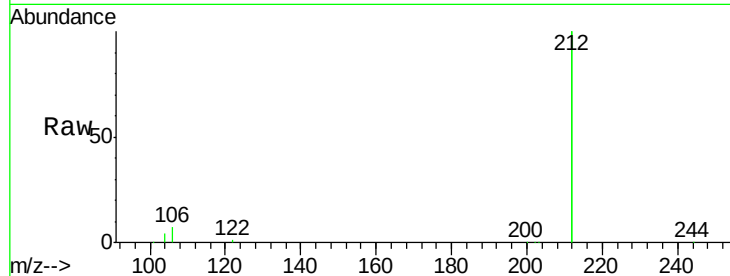
Tgt Ion:212 Resp: 139886

Ion Ratio Lower Upper

212 100

106 3.5 2.4 3.6

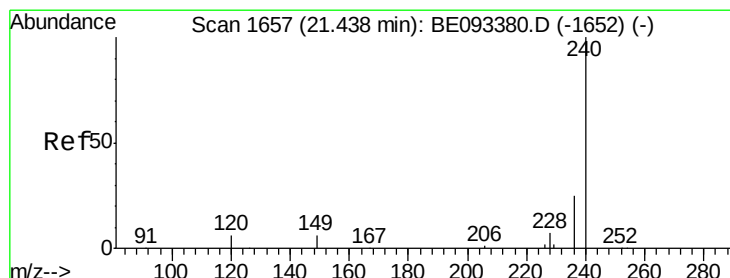
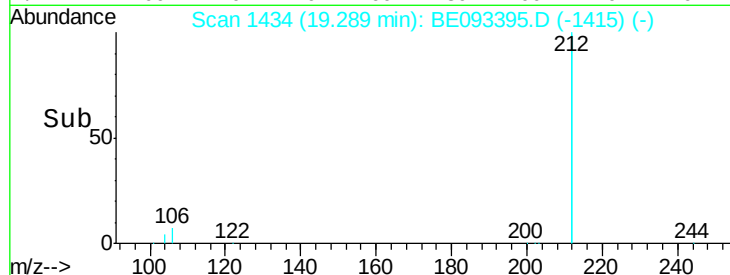
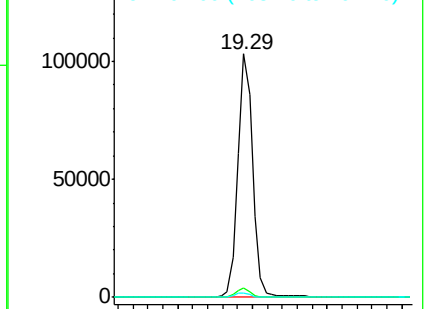
104 2.0 1.6 2.4



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: 0.40 ng

RT: 21.43 min Scan# 1656

Delta R.T. -0.01 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

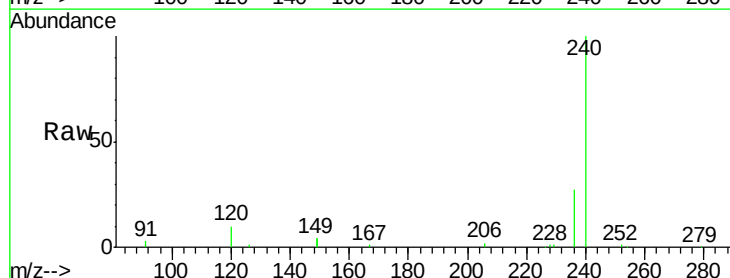
Tgt Ion:240 Resp: 38833

Ion Ratio Lower Upper

240 100

120 10.1 4.6 7.0#

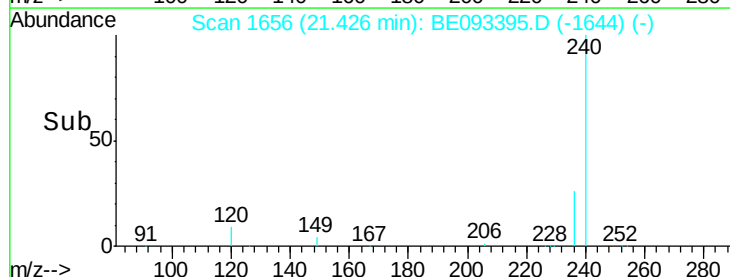
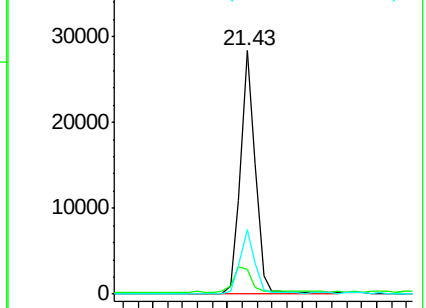
236 26.7 20.8 31.2

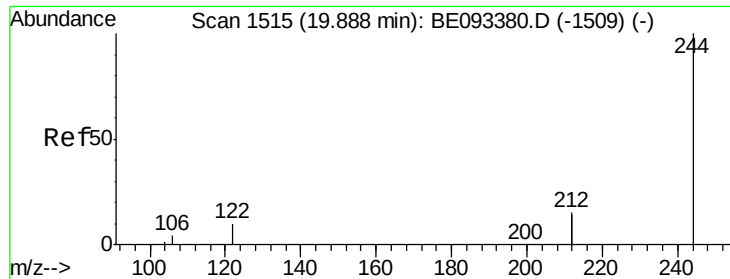


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.50 ng

RT: 19.88 min Scan# 1514

Delta R.T. -0.01 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

Instrument :

BNA\_E

ClientSampleId :

MH-117N-20170627

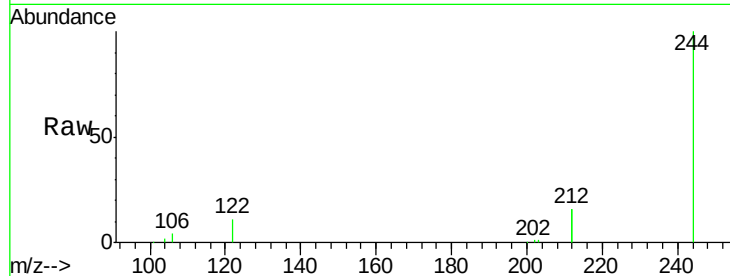
Tgt Ion:244 Resp: 35752

Ion Ratio Lower Upper

244 100

212 31.2 10.6 16.0#

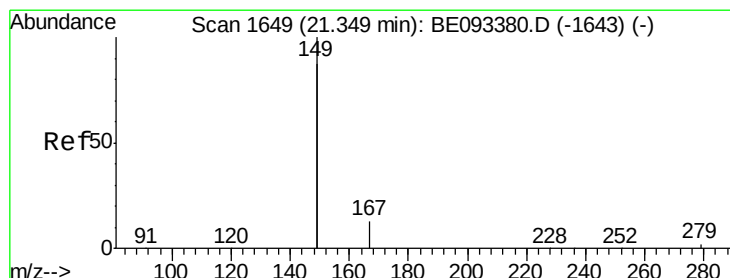
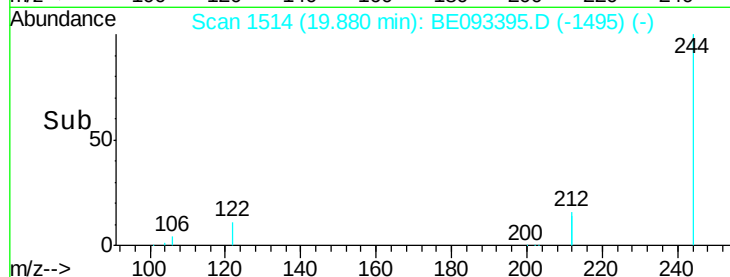
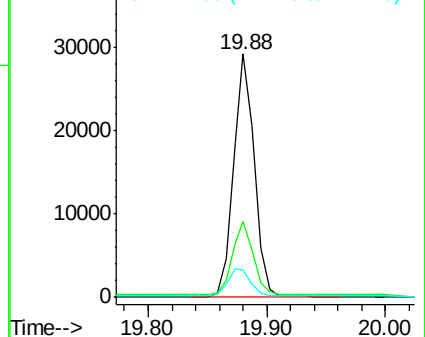
122 11.5 15.4 23.0#



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: 0.18 ng

RT: 21.34 min Scan# 1648

Delta R.T. -0.01 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

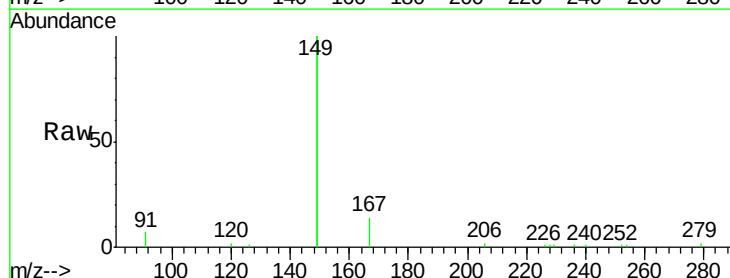
Tgt Ion:149 Resp: 28885

Ion Ratio Lower Upper

149 100

167 6.1 20.1 30.1#

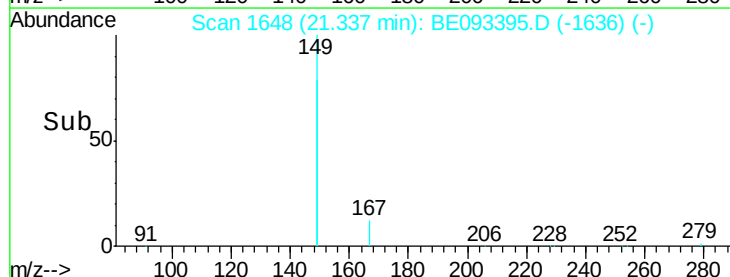
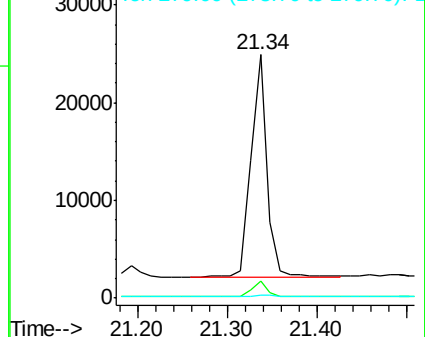
279 1.1 2.2 3.4#

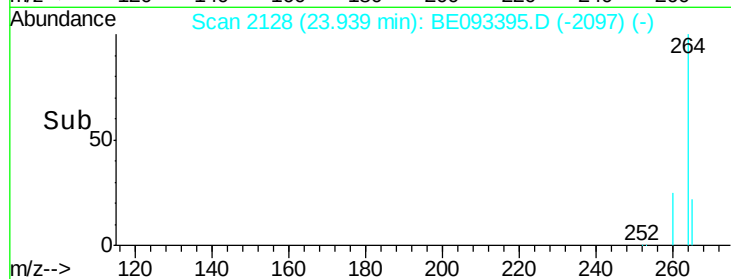
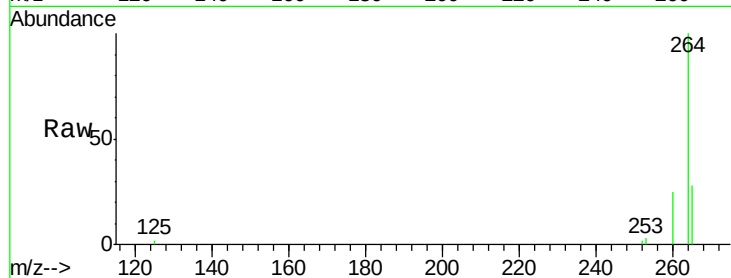
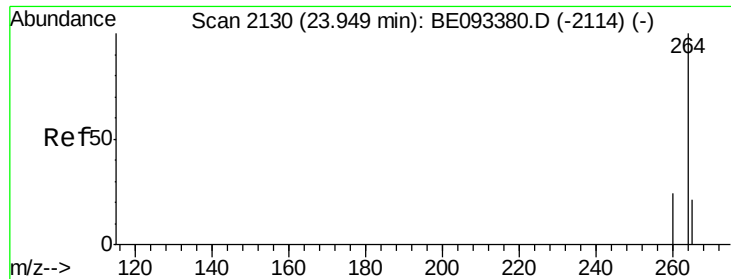


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#34

Perylene-d12

Concen: 0.40 ng

RT: 23.94 min Scan# 2128

Delta R.T. -0.01 min

Lab File: BE093395.D

Acq: 1 Jul 2017 16:42

Instrument :

BNA\_E

ClientSampleId :

MH-117N-20170627

Tgt Ion:264 Resp: 34417

Ion Ratio Lower Upper

264 100

260 25.1 21.0 31.4

265 28.2 24.6 36.8

