

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE090517\  
 Data File : BE093948.D  
 Acq On : 5 Sep 2017 22:07  
 Operator : SJ/JU  
 Sample : I5078-03  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MWHR3-14

Quant Time: Sep 06 05:28:53 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE090517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 05 13:34:56 2017  
 Response via : Initial Calibration

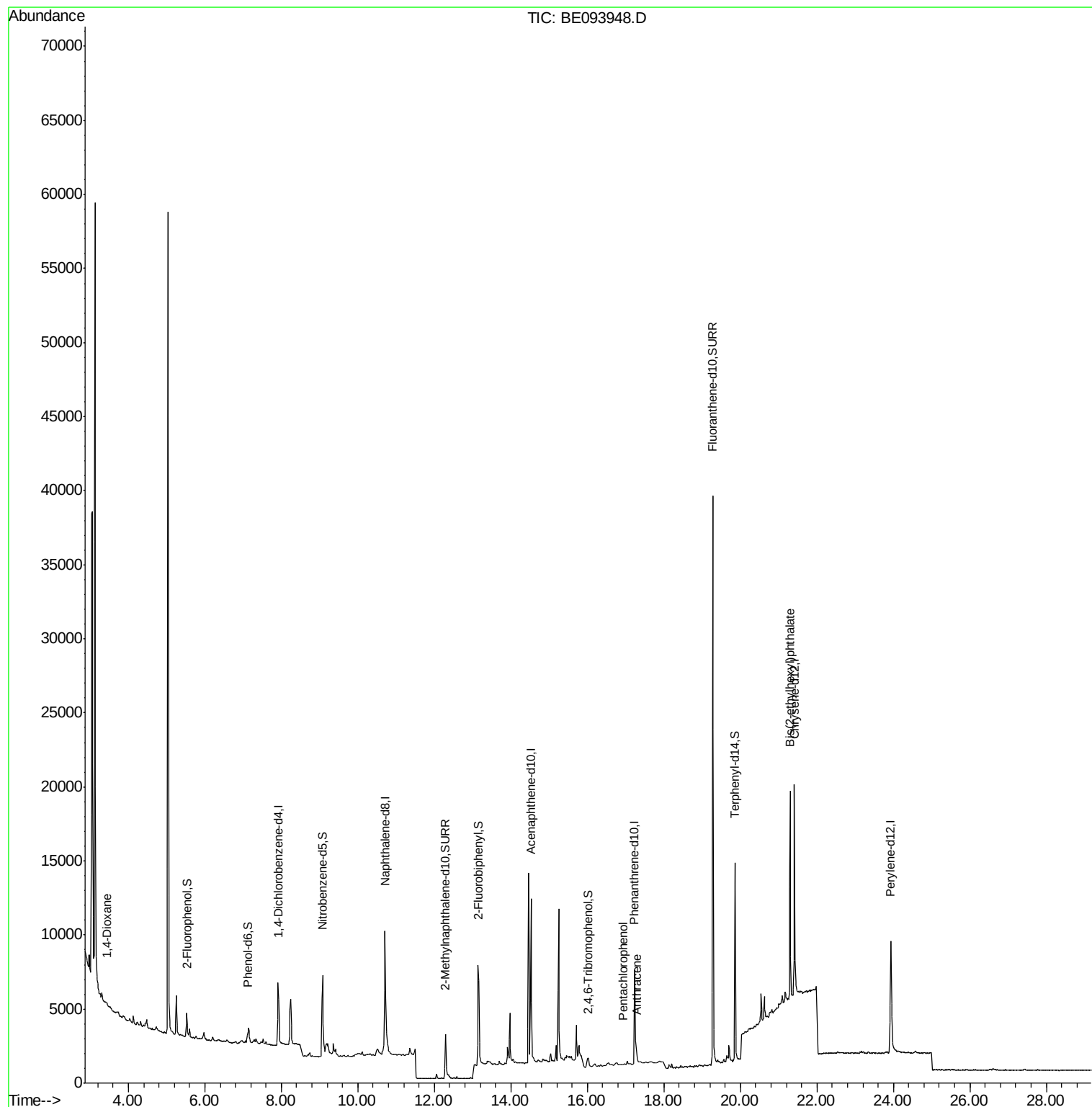
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.92  | 152  | 2185     | 0.40      | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.71 | 136  | 10844    | 0.40      | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.52 | 164  | 6674     | 0.40      | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.23 | 188  | 11319    | 0.40      | ng    | -0.03    |
| 27) Chrysene-d12               | 21.42 | 240  | 16226    | 0.40      | ng    | -0.01    |
| 34) Perylene-d12               | 23.93 | 264  | 13631    | 0.40      | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 4) 2-Fluorophenol              | 5.53  | 112  | 986      | 0.14      | ng    | 0.00     |
| 5) Phenol-d6                   | 7.12  | 99   | 863      | 0.08      | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 9.08  | 82   | 2867     | 0.31      | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10    | 12.29 | 152  | 5200     | 0.30      | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 16.03 | 330  | 567      | 0.27      | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 13.15 | 172  | 8697     | 0.33      | ng    | -0.01    |
| 25) Fluoranthene-d10           | 19.28 | 212  | 57248    | 0.34      | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.86 | 244  | 12714    | 0.43      | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 2) 1,4-Dioxane                 | 3.44  | 88   | 167      | 0.055     | ng    | # 1      |
| 20) 4-Bromophenyl-phenylether  | 16.42 | 248  | 27       | Below Cal | #     | 13       |
| 22) Pentachlorophenol          | 16.94 | 266  | 41       | 0.023     | ng    | # 67     |
| 23) Phenanthrene               | 17.30 | 178  | 722      | Below Cal | #     | 56       |
| 24) Anthracene                 | 17.30 | 178  | 722      | 0.021     | ng    | # 56     |
| 32) Bis(2-ethylhexyl)phthalate | 21.31 | 149  | 16276    | 0.135     | ng    | 100      |

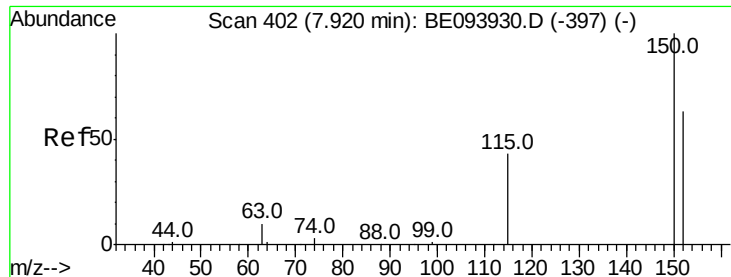
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE090517\  
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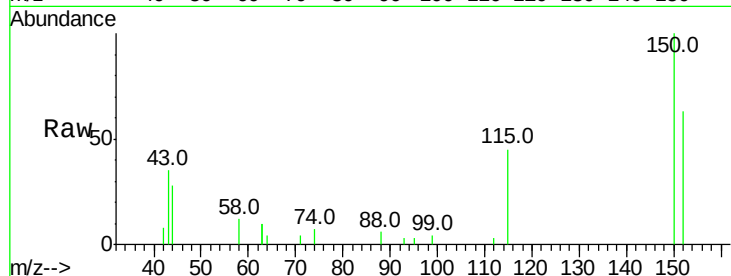


#1

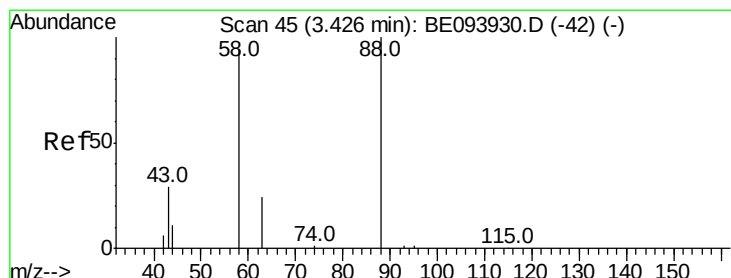
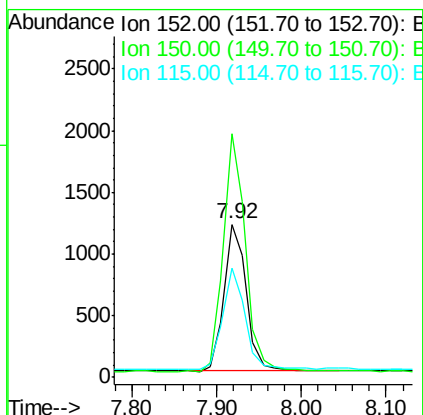
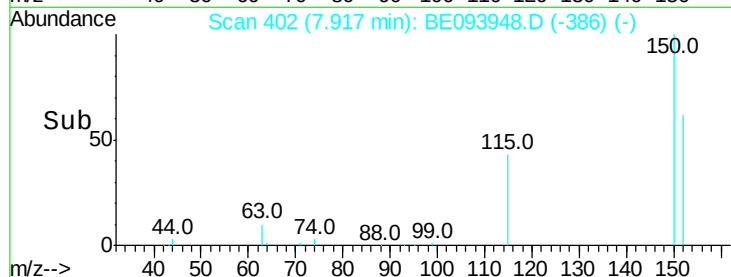
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.92 min Scan# 402  
Delta R.T. -0.00 min  
Lab File: BE093948.D  
Acq: 5 Sep 2017 22:07

Instrument :  
BNA\_E  
ClientSampleId :  
MWHHR3-14

Tot Ion:152 Resp: 2185  
Ion Ratio Lower Upper  
152 100  
150 158.9 121.8 182.6  
115 71.4 52.6 79.0



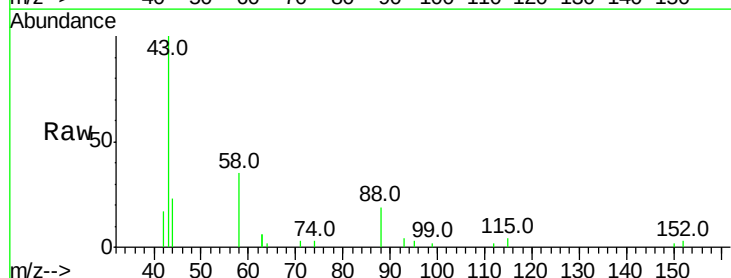
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



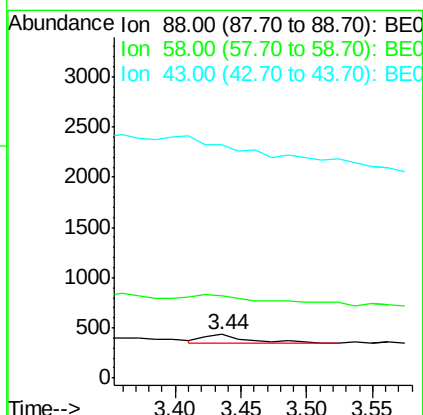
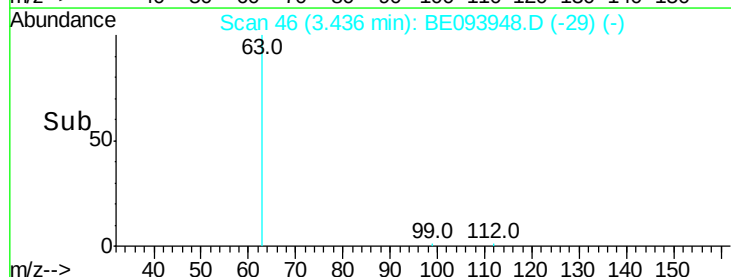
#2

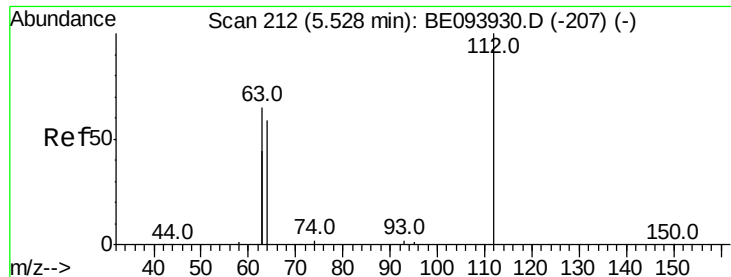
1,4-Dioxane  
Concen: 0.055 ng  
RT: 3.44 min Scan# 46  
Delta R.T. 0.01 min  
Lab File: BE093948.D  
Acq: 5 Sep 2017 22:07

Tgt Ion: 88 Resp: 167  
Ion Ratio Lower Upper  
88 100  
58 315.0 65.4 98.0#  
43 0.0 23.9 35.9#



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





#4

2-Fluorophenol

Concen: 0.139 ng

RT: 5.53 min Scan# 212

Delta R.T. -0.00 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

Instrument :

BNA\_E

ClientSampled :

MWHR3-14

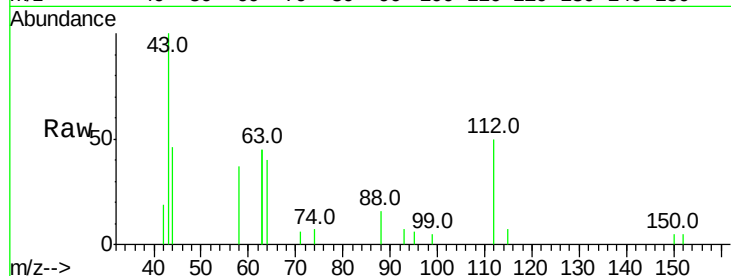
Tot Ion:112 Resp: 986

Ion Ratio Lower Upper

112 100

64 73.1 57.7 86.5

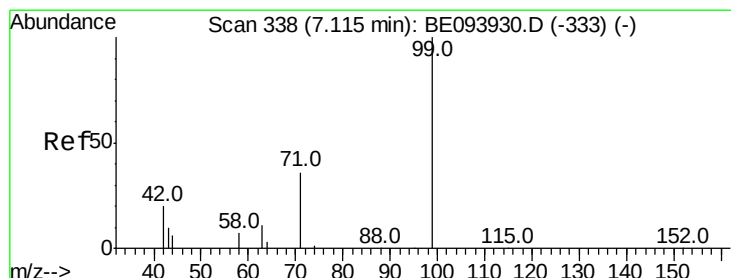
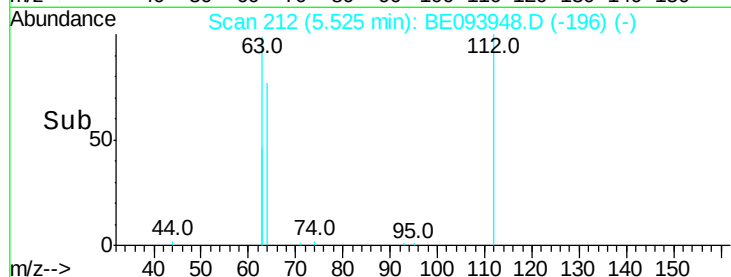
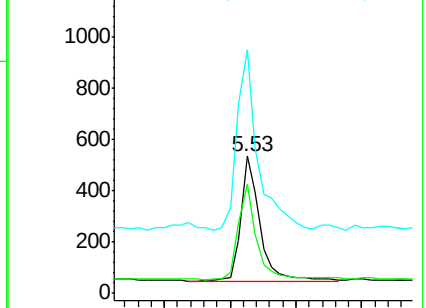
63 156.3 116.0 174.0



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



#5

Phenol-d6

Concen: 0.081 ng

RT: 7.12 min Scan# 339

Delta R.T. 0.01 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

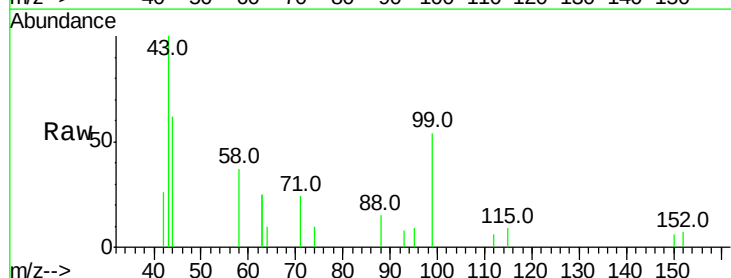
Tgt Ion: 99 Resp: 863

Ion Ratio Lower Upper

99 100

42 20.7 17.1 25.7

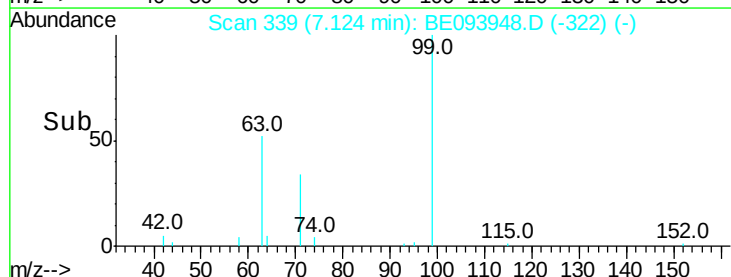
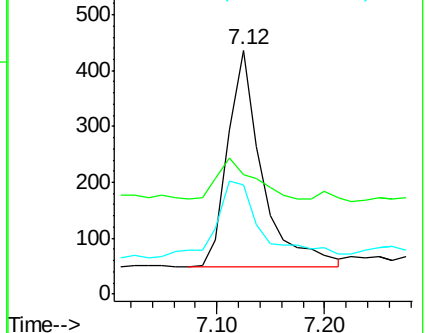
71 48.9 26.6 39.8#

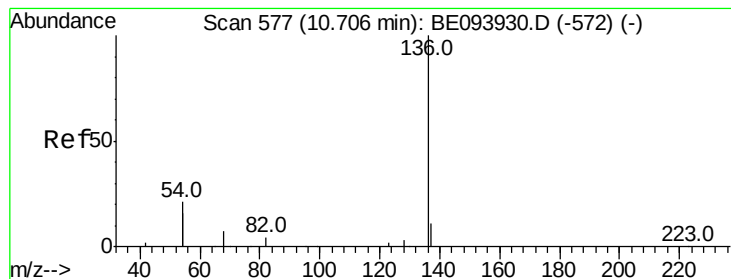


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: 10.71 min Scan# 577

Delta R.T. 0.00 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

Instrument :

BNA\_E

ClientSampleId :

MWHR3-14

Tot Ion:136 Resp: 10844

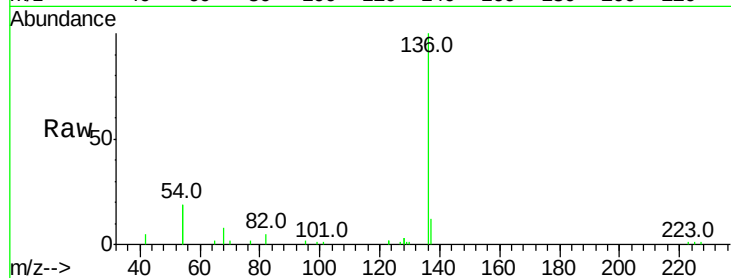
Ion Ratio Lower Upper

136 100

137 12.2 9.2 13.8

54 38.8 21.9 32.9#

68 7.9 4.6 7.0#

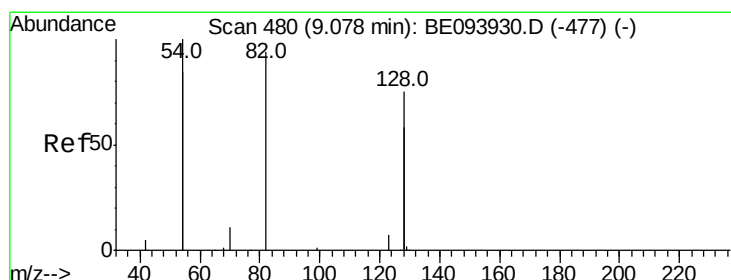
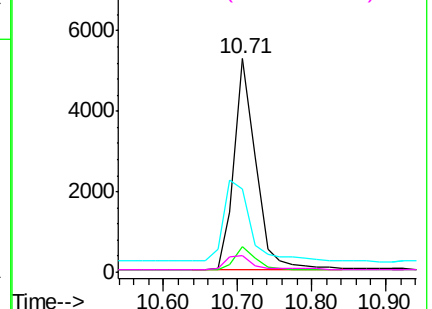
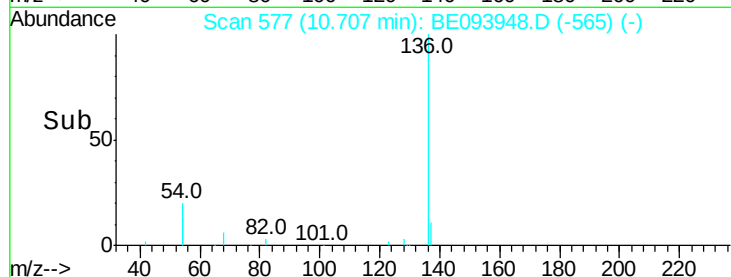


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.312 ng

RT: 9.08 min Scan# 480

Delta R.T. 0.00 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

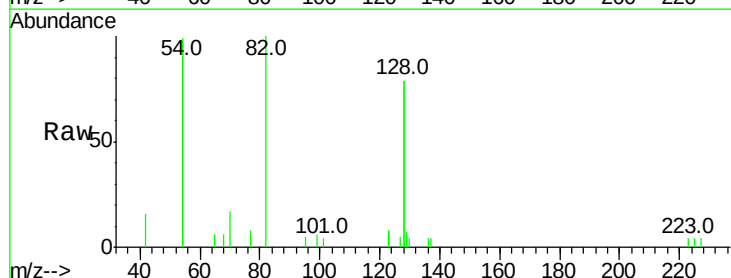
Tgt Ion: 82 Resp: 2867

Ion Ratio Lower Upper

82 100

128 158.4 91.4 137.0#

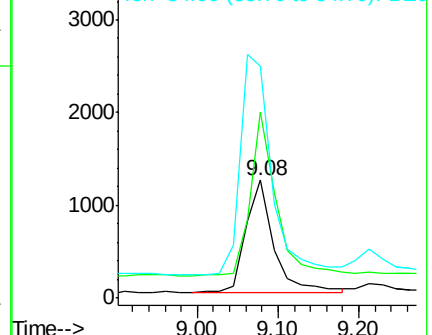
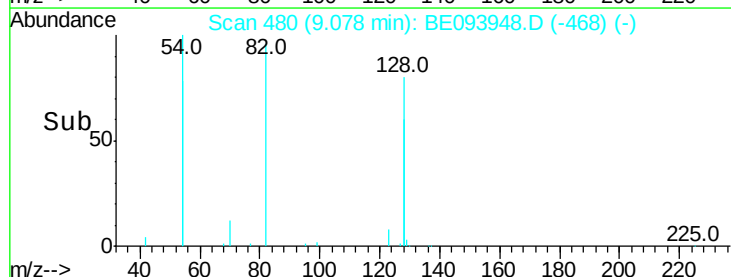
54 197.8 197.8 296.8#

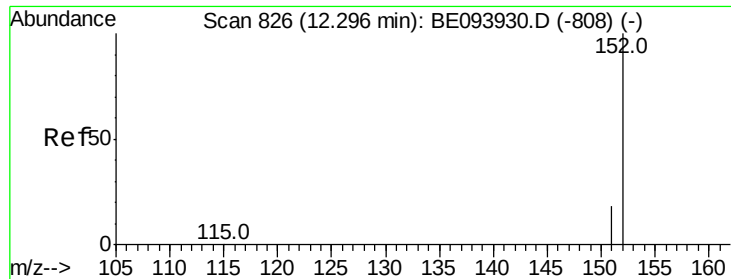


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

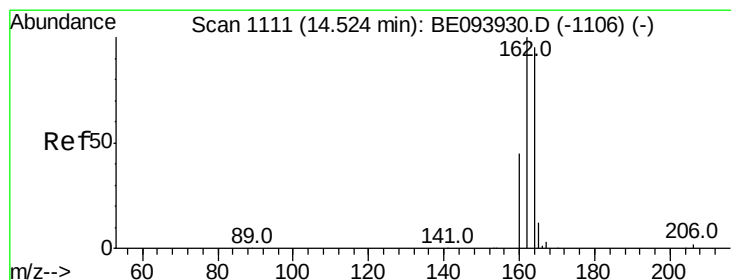
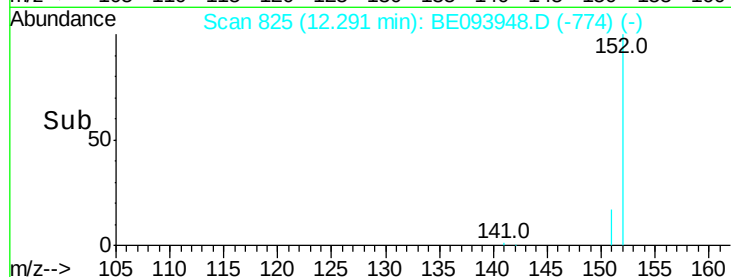
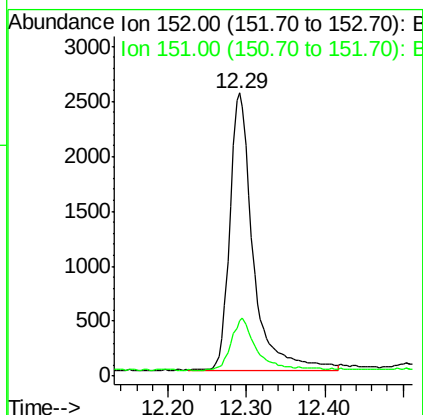
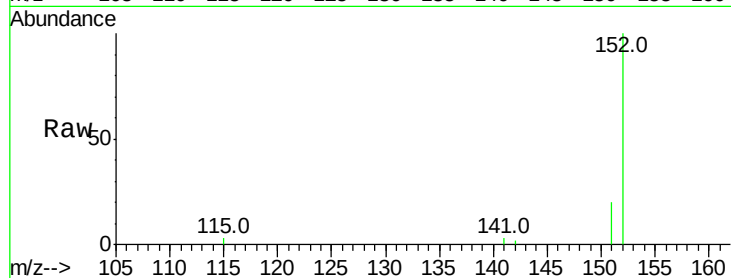




#11  
2-Methylnaphthalene-d10  
Concen: 0.300 ng  
RT: 12.29 min Scan# 825  
Delta R.T. -0.01 min  
Lab File: BE093948.D  
Acq: 5 Sep 2017 22:07

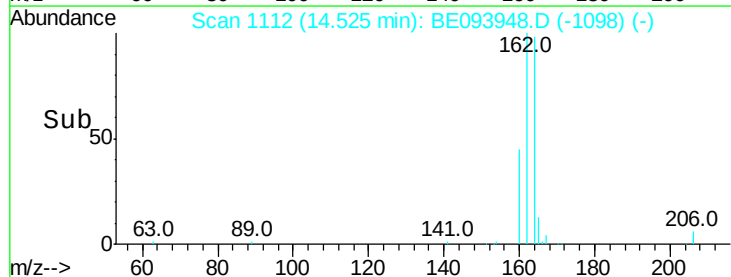
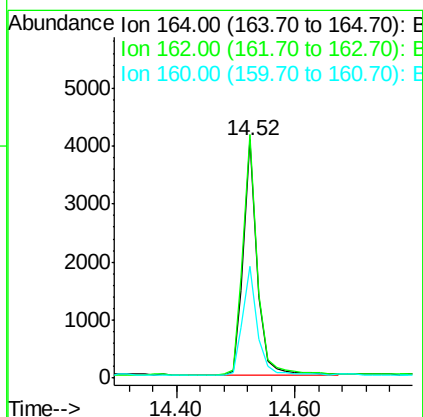
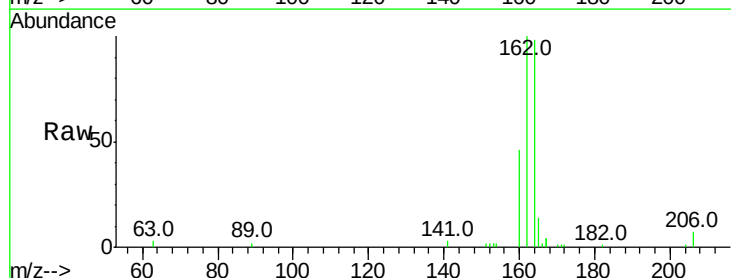
Instrument :  
BNA\_E  
ClientSampleId :  
MWHR3-14

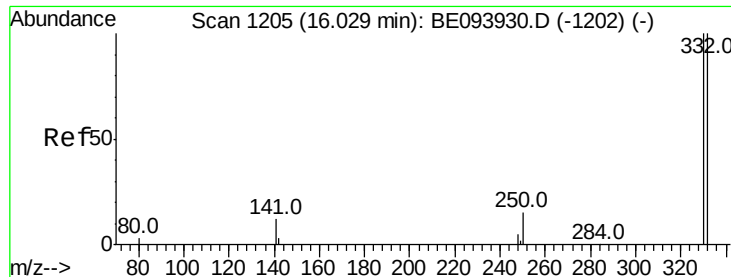
Tot Ion:152 Resp: 5200  
Ion Ratio Lower Upper  
152 100  
151 19.8 15.4 23.0



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.52 min Scan# 1112  
Delta R.T. 0.00 min  
Lab File: BE093948.D  
Acq: 5 Sep 2017 22:07

Tgt Ion:164 Resp: 6674  
Ion Ratio Lower Upper  
164 100  
162 102.2 80.8 121.2  
160 47.1 37.0 55.4

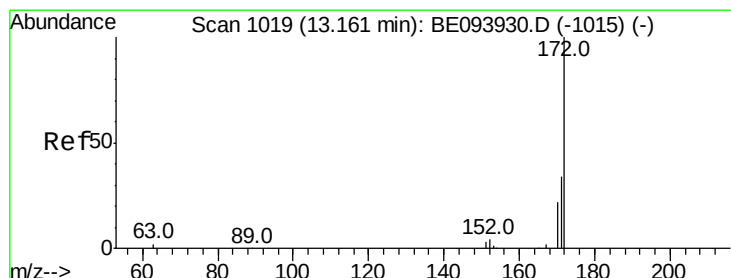
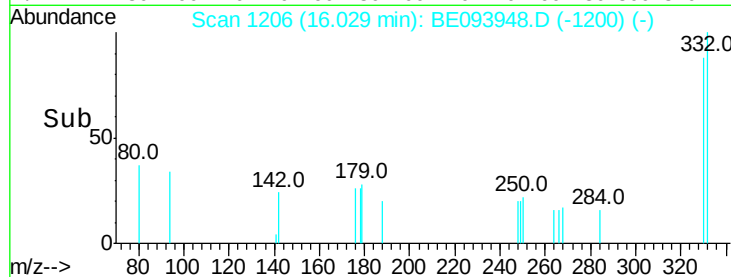
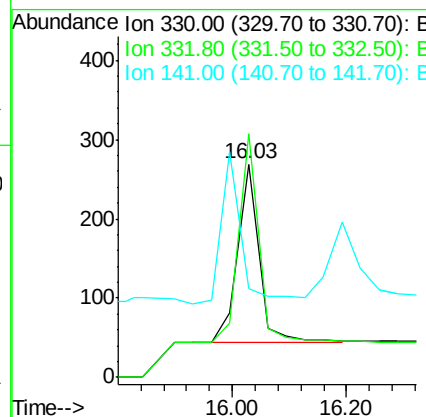
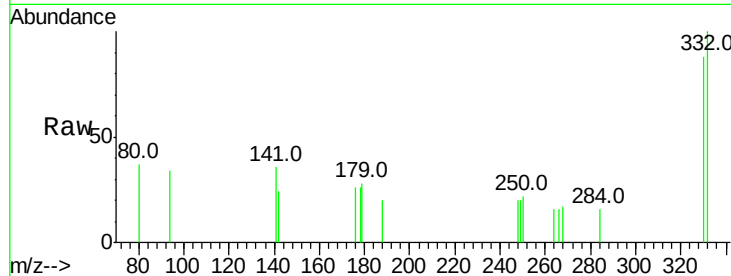




#14  
 2,4,6-Tribromophenol  
 Concen: 0.274 ng  
 RT: 16.03 min Scan# 1206  
 Delta R.T. 0.00 min  
 Lab File: BE093948.D  
 Acq: 5 Sep 2017 22:07

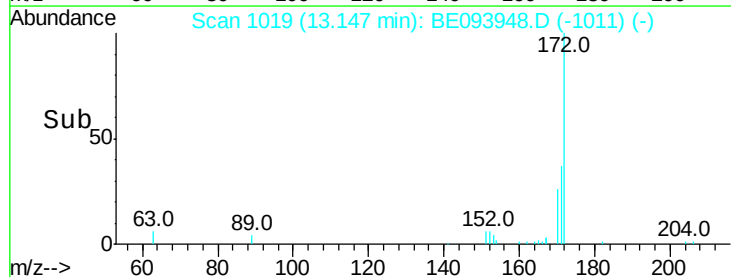
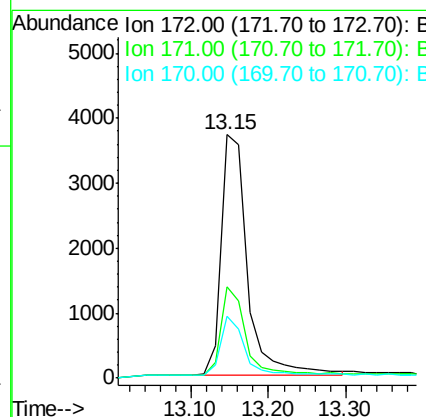
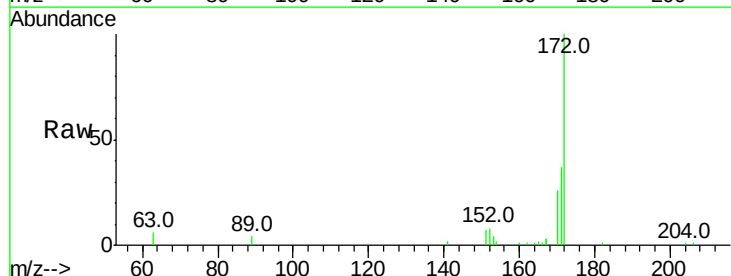
Instrument :  
 BNA\_E  
 ClientSampled :  
 MWHR3-14

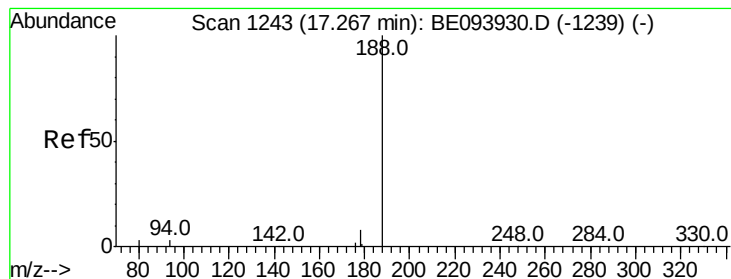
Tot Ion:330 Resp: 567  
 Ion Ratio Lower Upper  
 330 100  
 332 110.4 76.9 115.3  
 141 0.0 0.0 0.0



#15  
 2-Fluorobiphenyl  
 Concen: 0.330 ng  
 RT: 13.15 min Scan# 1019  
 Delta R.T. -0.01 min  
 Lab File: BE093948.D  
 Acq: 5 Sep 2017 22:07

Tgt Ion:172 Resp: 8697  
 Ion Ratio Lower Upper  
 172 100  
 171 37.3 26.9 40.3  
 170 25.5 17.3 25.9





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.23 min Scan# 1243

Delta R.T. -0.03 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

Instrument :

BNA\_E

ClientSampleId :

MWHR3-14

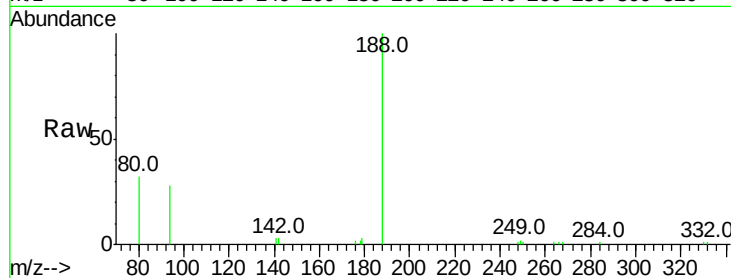
Tot Ion:188 Resp: 11319

Ion Ratio Lower Upper

188 100

94 28.3 16.1 24.1#

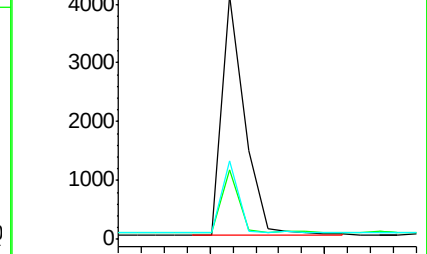
80 32.2 18.2 27.2#



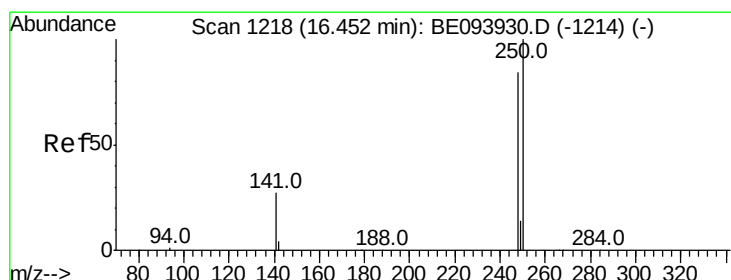
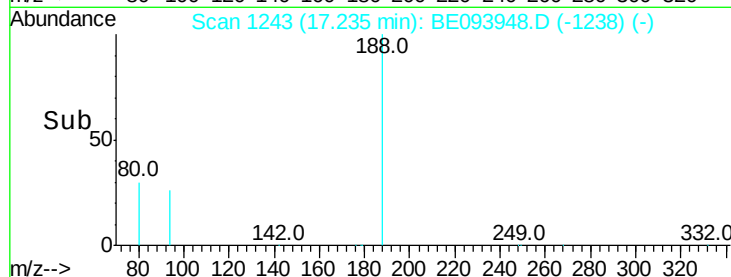
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



Time-->



#20

4-Bromophenyl-phenylether

Concen: Below Cal

RT: 16.42 min Scan# 1218

Delta R.T. -0.03 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

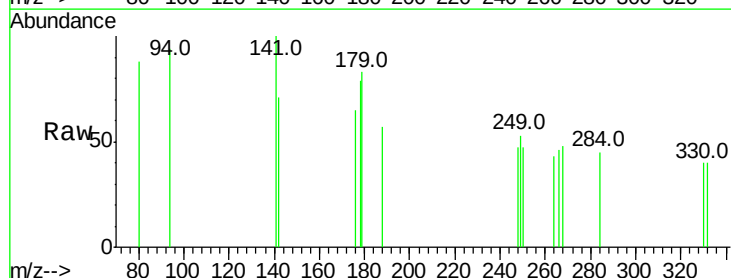
Tgt Ion:248 Resp: 27

Ion Ratio Lower Upper

248 100

250 100.0 111.8 167.8#

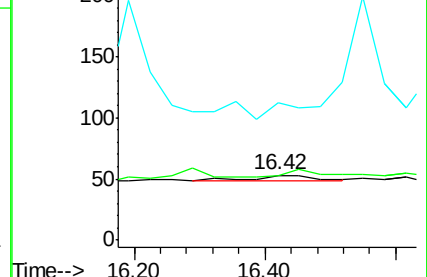
141 211.3 27.1 40.7#



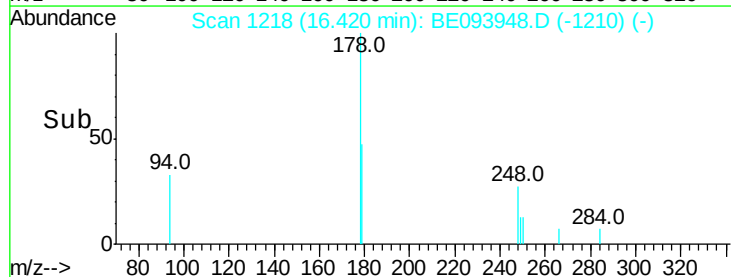
Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

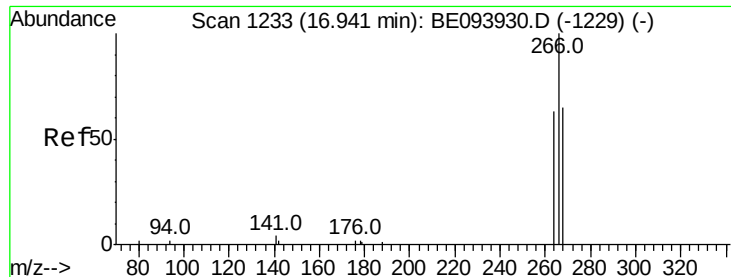
Ion 141.00 (140.70 to 141.70): E



Time-->







#22

Pentachlorophenol

Concen: 0.023 ng

RT: 16.94 min Scan# 1234

Delta R.T. 0.00 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

Instrument :

BNA\_E

ClientSampled :

MWHR3-14

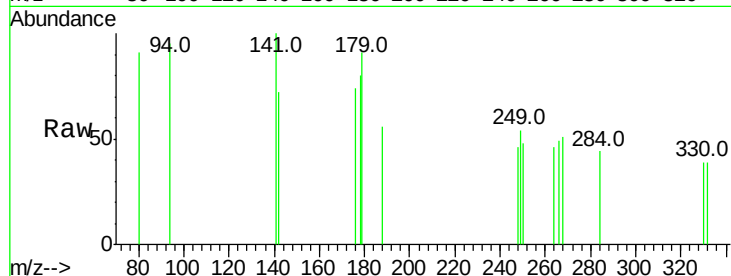
Tot Ion:266 Resp: 41

Ion Ratio Lower Upper

266 100

264 93.0 53.5 80.3#

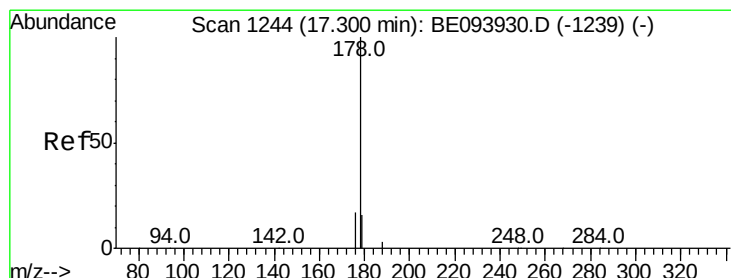
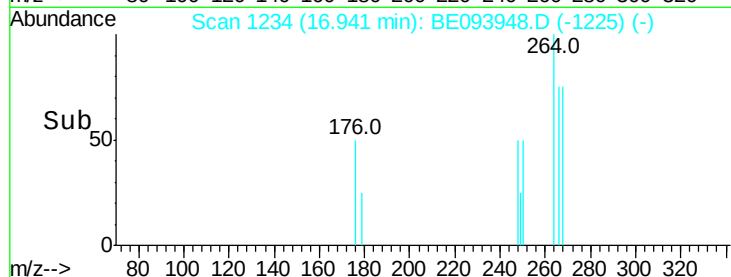
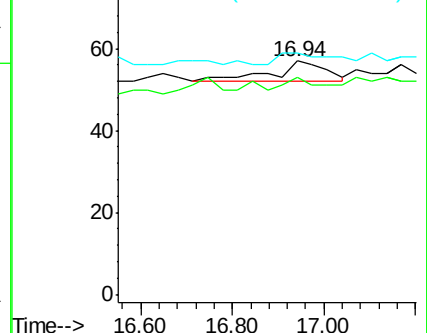
268 103.5 60.0 90.0#



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



#23

Phenanthrene

Concen: Below Cal

RT: 17.30 min Scan# 1245

Delta R.T. 0.00 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

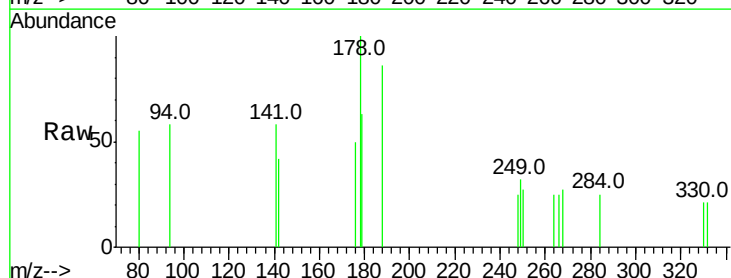
Tgt Ion:178 Resp: 722

Ion Ratio Lower Upper

178 100

176 0.0 0.0 0.0

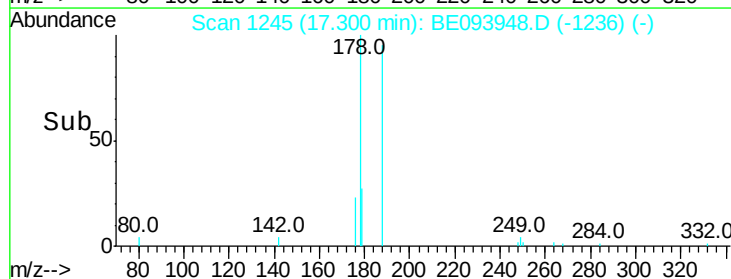
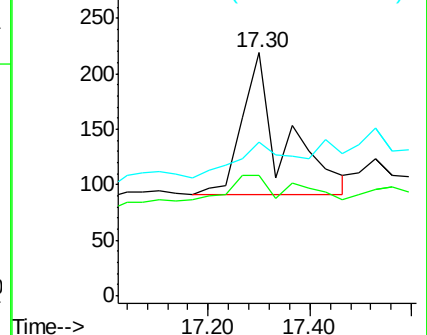
179 34.3 12.6 18.8#

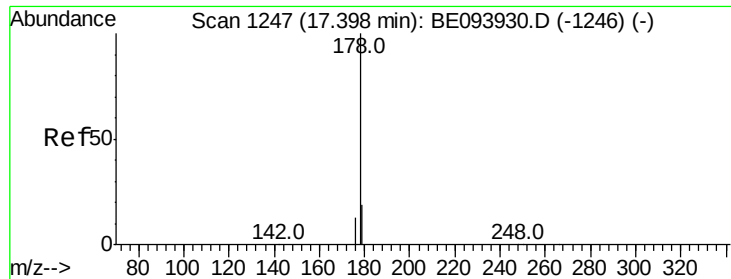


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.021 ng

RT: 17.30 min Scan# 1245

Delta R.T. -0.10 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

Instrument :

BNA\_E

ClientSampled :

MWHR3-14

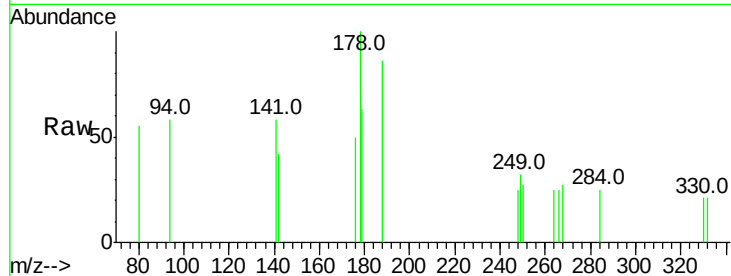
Tot Ion:178 Resp: 722

Ion Ratio Lower Upper

178 100

176 0.0 16.0 24.0#

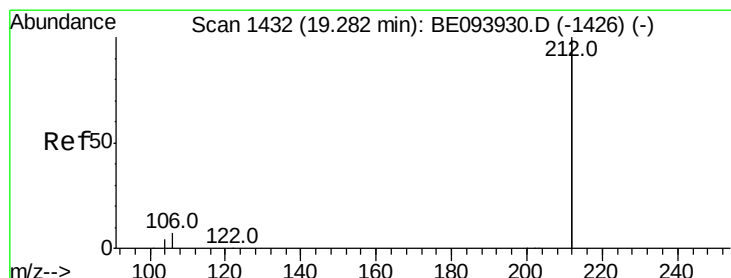
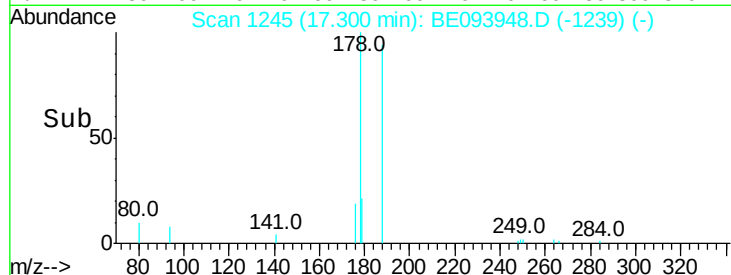
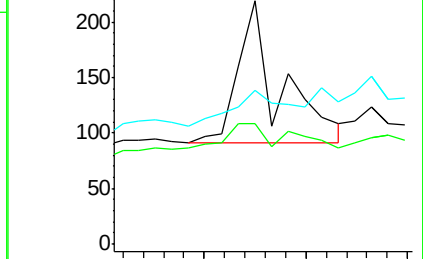
179 34.3 0.0 0.0#



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: 0.339 ng

RT: 19.28 min Scan# 1433

Delta R.T. -0.00 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

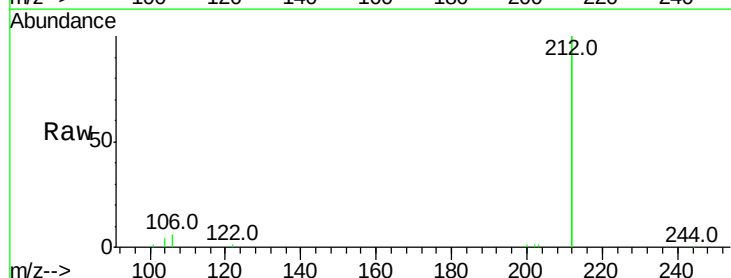
Tgt Ion:212 Resp: 57248

Ion Ratio Lower Upper

212 100

106 3.5 2.7 4.1

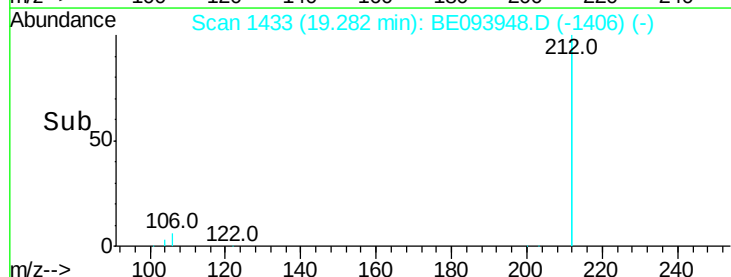
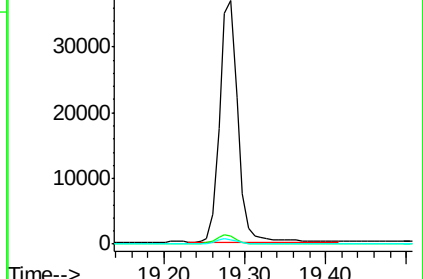
104 2.0 1.6 2.4

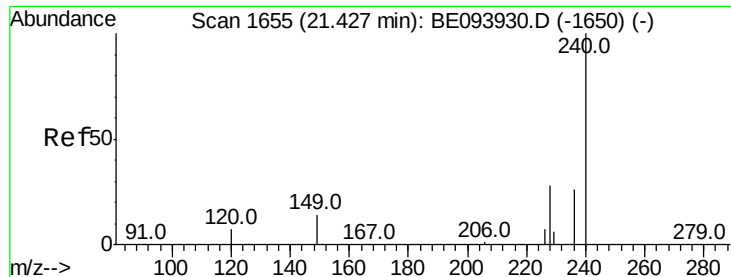


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.42 min Scan# 1655

Delta R.T. -0.01 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

Instrument :

BNA\_E

ClientSampled :

MWHR3-14

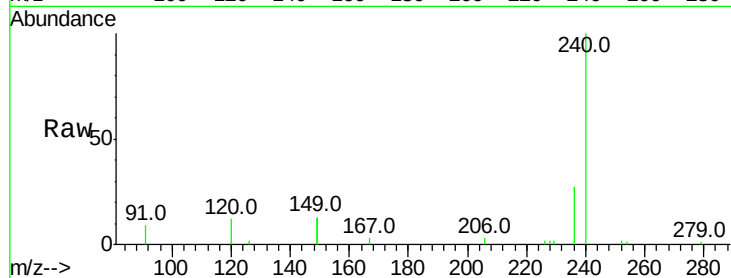
Tot Ion:240 Resp: 16226

Ion Ratio Lower Upper

240 100

120 11.8 8.7 13.1

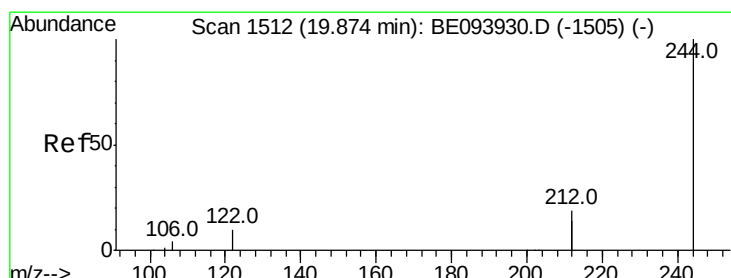
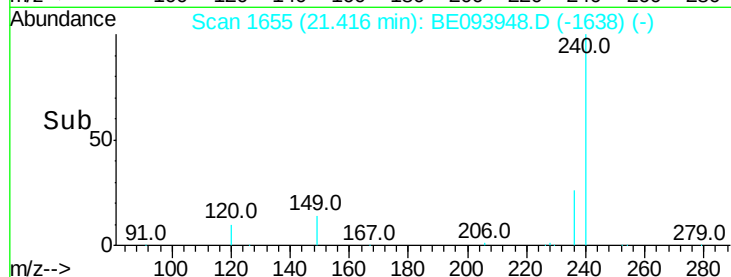
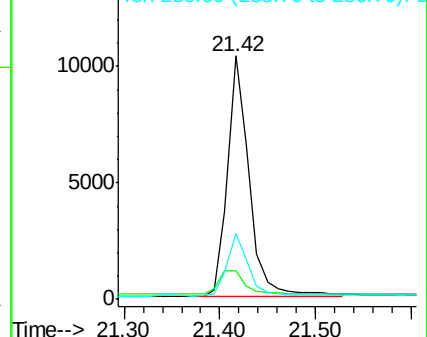
236 27.0 21.3 31.9



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: 0.426 ng

RT: 19.86 min Scan# 1511

Delta R.T. -0.01 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

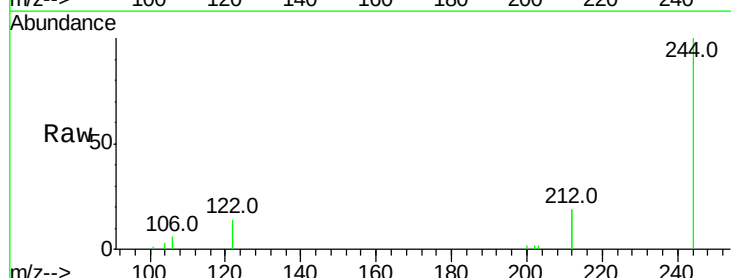
Tgt Ion:244 Resp: 12714

Ion Ratio Lower Upper

244 100

212 37.1 28.3 42.5

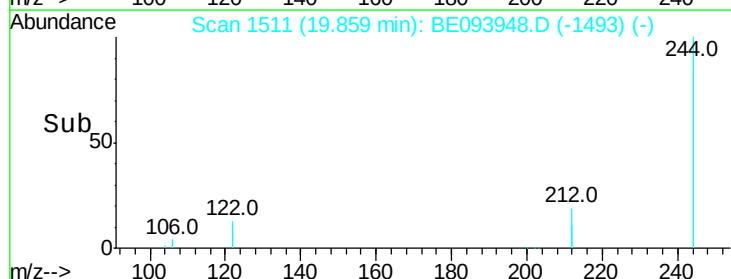
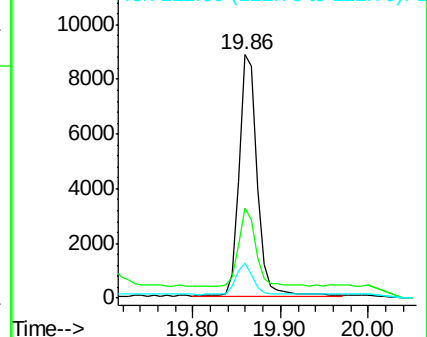
122 14.3 9.4 14.0#

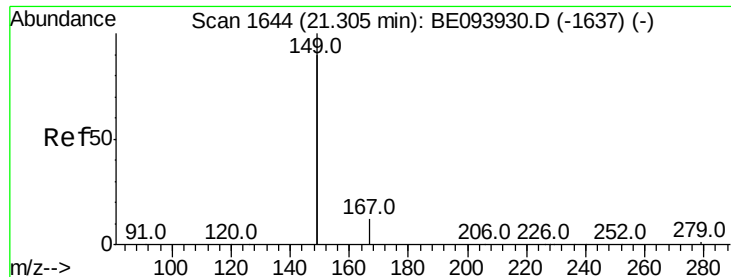


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.135 ng

RT: 21.31 min Scan# 1645

Delta R.T. 0.00 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

Instrument :

BNA\_E

ClientSampleId :

MWHR3-14

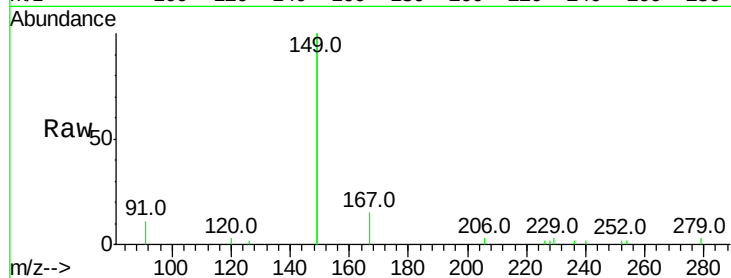
Tot Ion:149 Resp: 16276

Ion Ratio Lower Upper

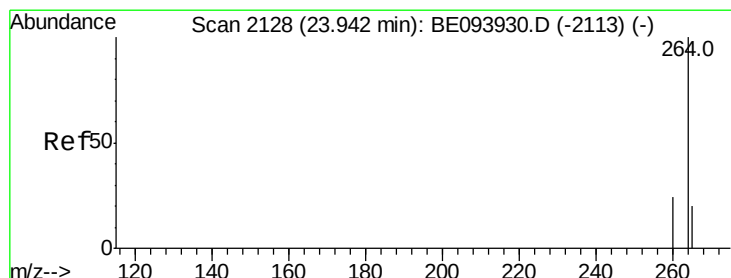
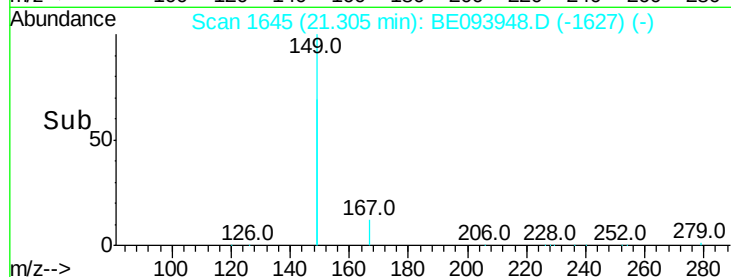
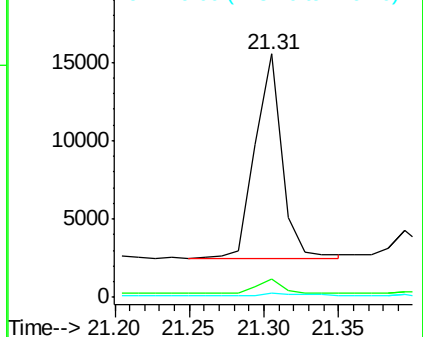
149 100

167 6.8 5.4 8.0

279 1.0 0.7 1.1



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: 0.400 ng

RT: 23.93 min Scan# 2127

Delta R.T. -0.01 min

Lab File: BE093948.D

Acq: 5 Sep 2017 22:07

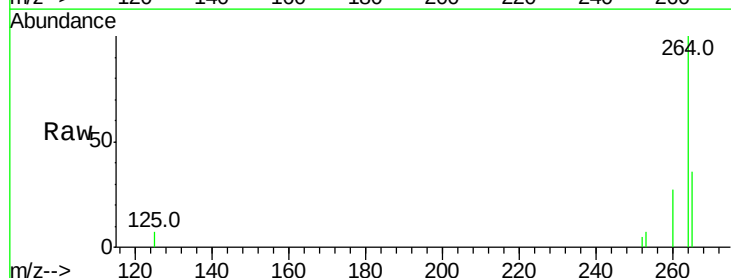
Tgt Ion:264 Resp: 13631

Ion Ratio Lower Upper

264 100

260 26.6 20.0 30.0

265 36.2 24.0 36.0#



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

