

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE070717\  
 Data File : BE093445.D  
 Acq On : 7 Jul 2017 16:19  
 Operator : SJ/JU  
 Sample : I4009-08  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MW-22BR-20170630

Quant Time: Jul 08 05:31:53 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 | 7.94  | 152  | 4130     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.72 | 136  | 21818    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.54 | 164  | 13797    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.27 | 188  | 27955    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.43 | 240  | 38917    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.93 | 264  | 33264    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.52  | 112  | 1939     | 0.16 | ng    | 0.00     |
| 5) Phenol-d6                | 7.10  | 99   | 1841     | 0.10 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 9.08  | 82   | 5379     | 0.39 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.31 | 152  | 11717    | 0.34 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 16.03 | 330  | 1152     | 0.27 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.18 | 172  | 31094    | 0.58 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.29 | 212  | 148761   | 0.44 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.87 | 244  | 34803    | 0.50 | ng    | 0.00     |

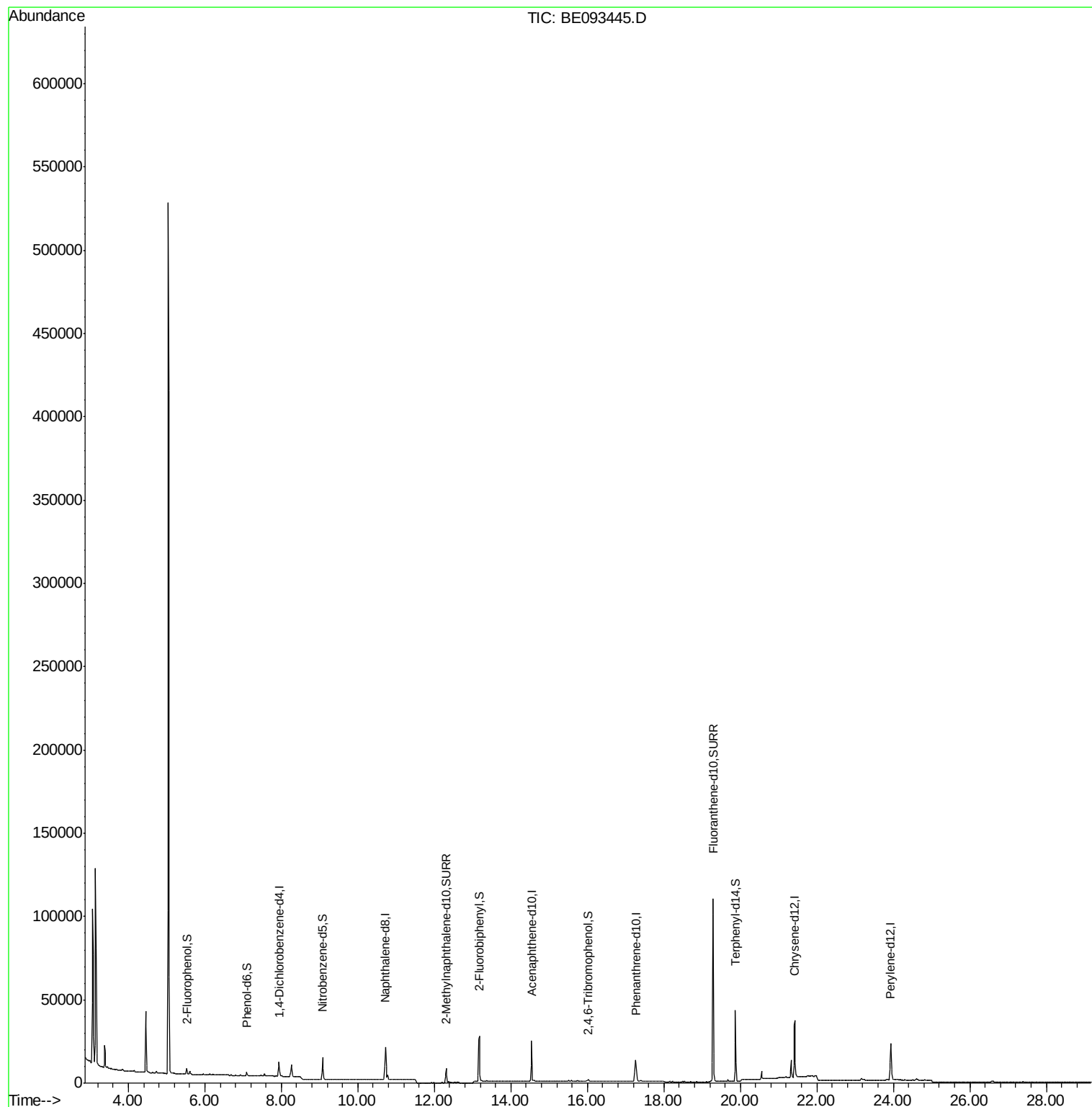
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

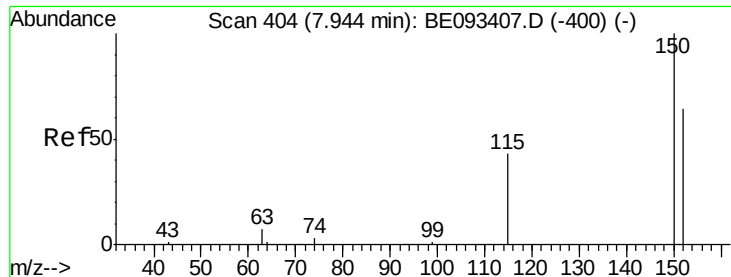
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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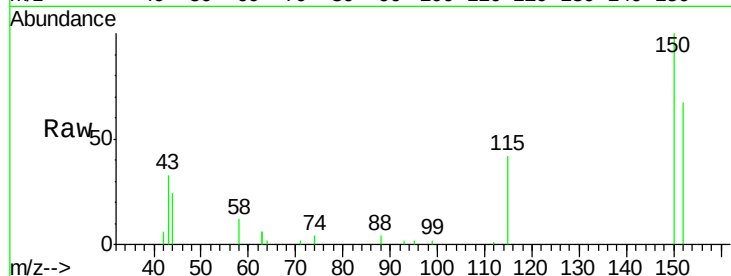


#1

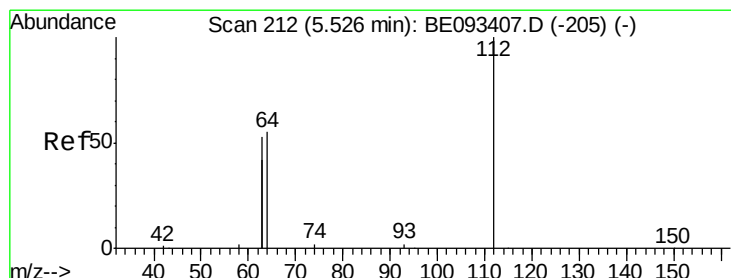
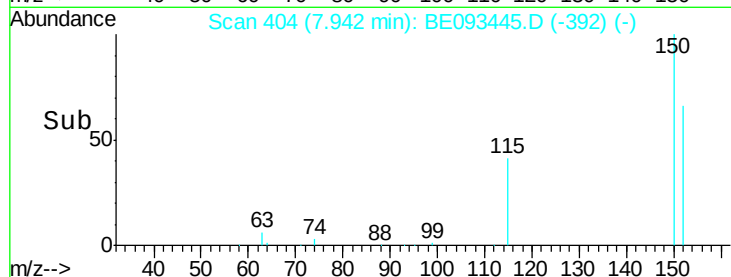
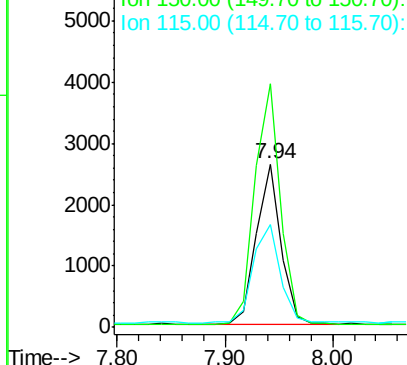
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.94 min Scan# 404  
Delta R.T. -0.00 min  
Lab File: BE093445.D  
Acq: 7 Jul 2017 16:19

Instrument :  
BNA\_E  
ClientSampleId :  
MW-22BR-20170630

Tgt Ion:152 Resp: 4130  
Ion Ratio Lower Upper  
152 100  
150 149.0 125.1 187.7  
115 63.2 55.7 83.5



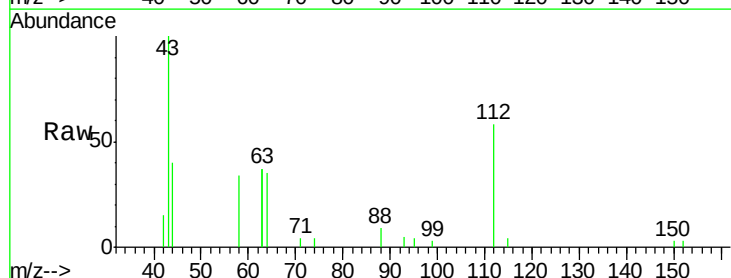
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



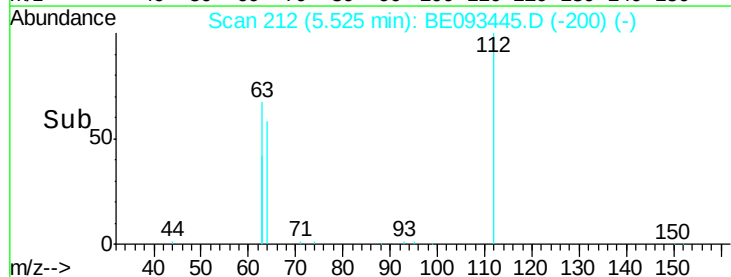
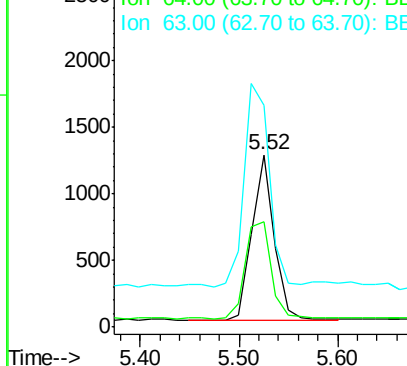
#4

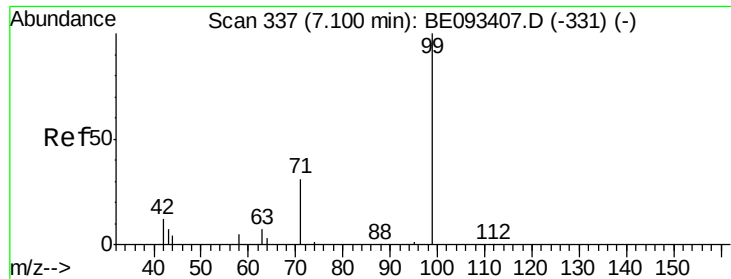
2-Fluorophenol  
Concen: 0.156 ng  
RT: 5.52 min Scan# 212  
Delta R.T. -0.00 min  
Lab File: BE093445.D  
Acq: 7 Jul 2017 16:19

Tgt Ion:112 Resp: 1939  
Ion Ratio Lower Upper  
112 100  
64 71.9 56.4 84.6  
63 139.5 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: 0.100 ng

RT: 7.10 min Scan# 337

Delta R.T. -0.00 min

Lab File: BE093445.D

Acq: 7 Jul 2017 16:19

Instrument :

BNA\_E

ClientSampleId :

MW-22BR-20170630

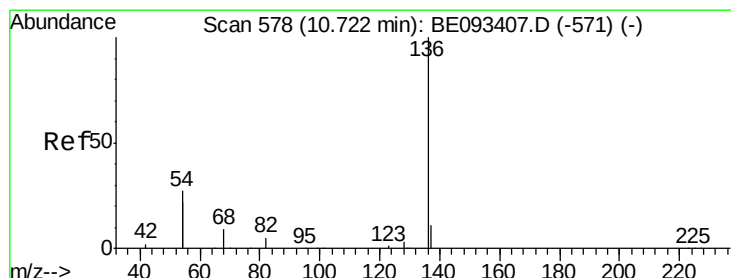
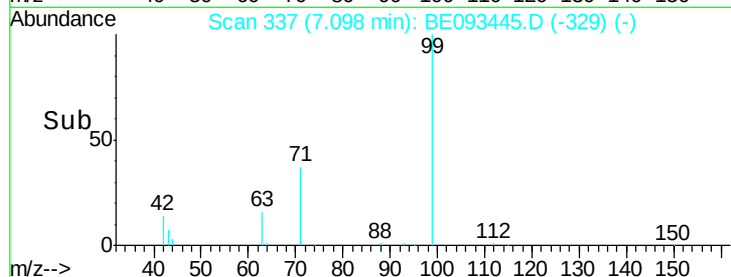
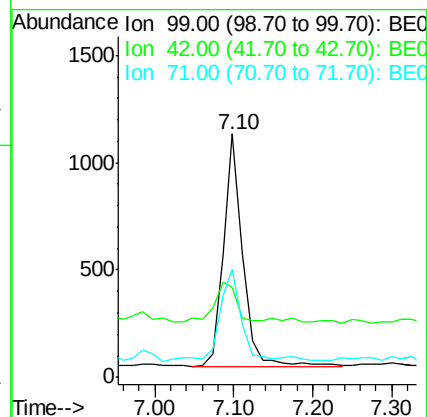
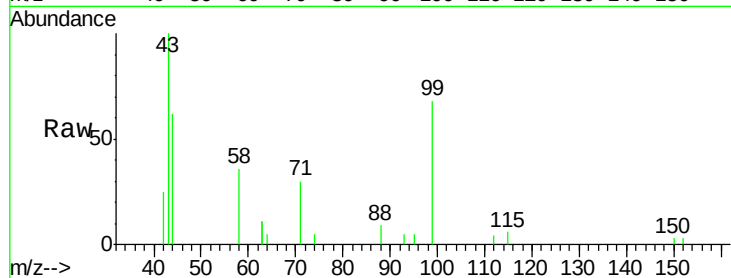
Tgt Ion: 99 Resp: 1841

Ion Ratio Lower Upper

99 100

42 20.1 0.0 0.0#

71 39.6 0.0 0.0#



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.72 min Scan# 578

Delta R.T. 0.00 min

Lab File: BE093445.D

Acq: 7 Jul 2017 16:19

Tgt Ion: 136 Resp: 21818

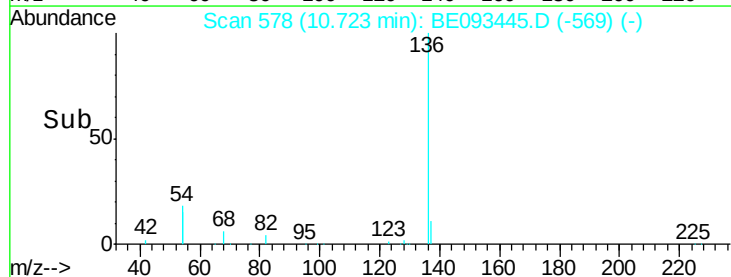
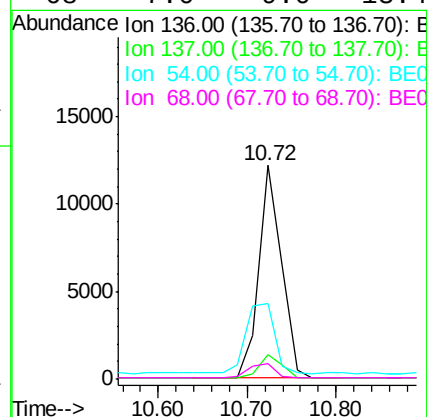
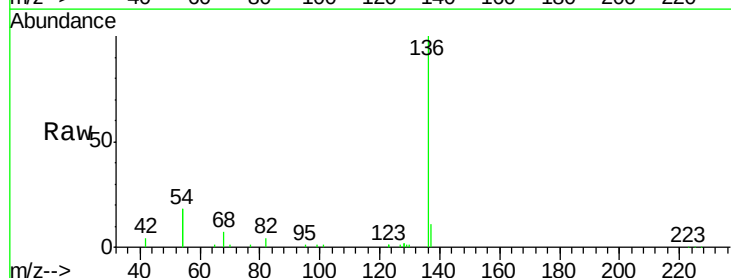
Ion Ratio Lower Upper

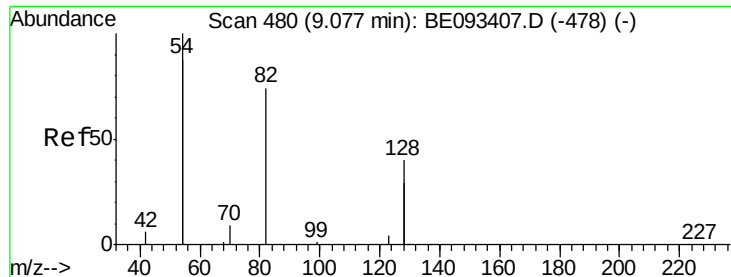
136 100

137 11.4 9.8 14.8

54 35.5 10.3 15.5#

68 7.0 9.0 13.4#





#8

Nitrobenzene-d5

Concen: 0.386 ng

RT: 9.08 min Scan# 480

Delta R.T. 0.00 min

Lab File: BE093445.D

Acq: 7 Jul 2017 16:19

Instrument :

BNA\_E

ClientSampleId :

MW-22BR-20170630

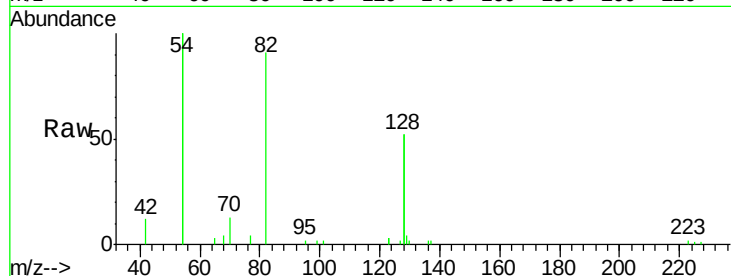
Tgt Ion: 82 Resp: 5379

Ion Ratio Lower Upper

82 100

128 114.4 17.0 25.4#

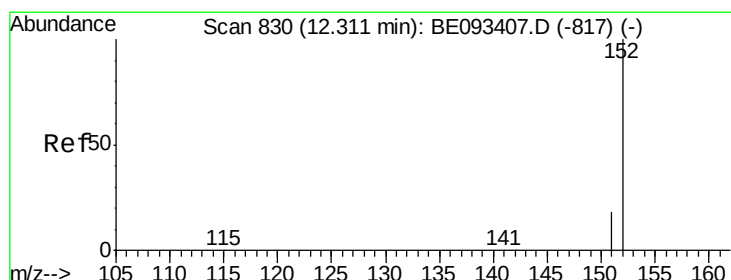
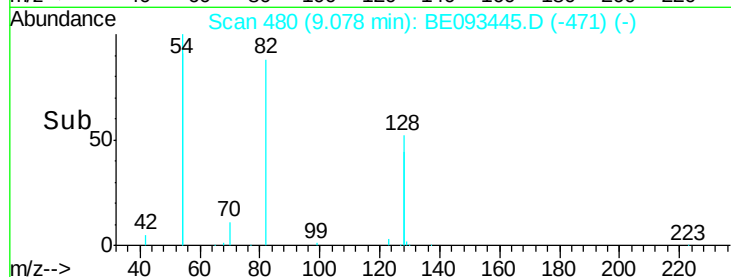
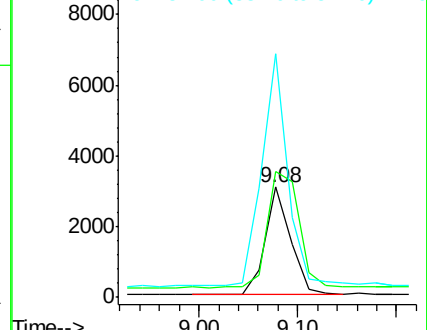
54 220.6 53.8 80.6#



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



#11

2-Methylnaphthalene-d10

Concen: 0.337 ng

RT: 12.31 min Scan# 829

Delta R.T. -0.00 min

Lab File: BE093445.D

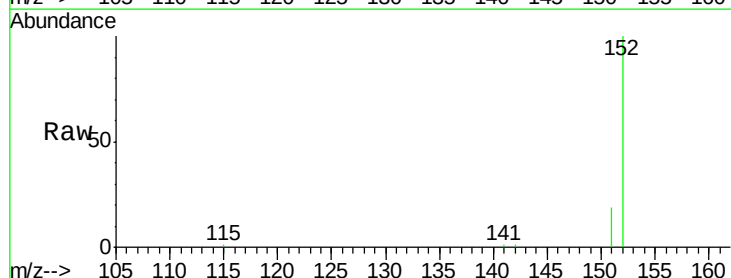
Acq: 7 Jul 2017 16:19

Tgt Ion: 152 Resp: 11717

Ion Ratio Lower Upper

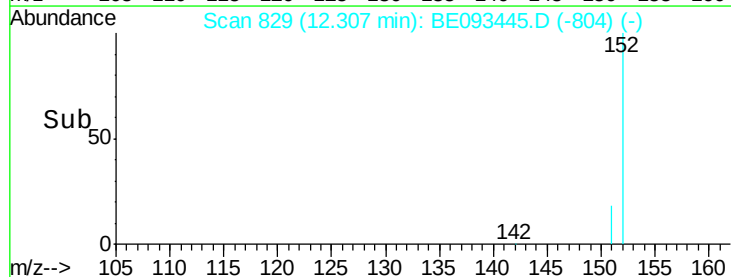
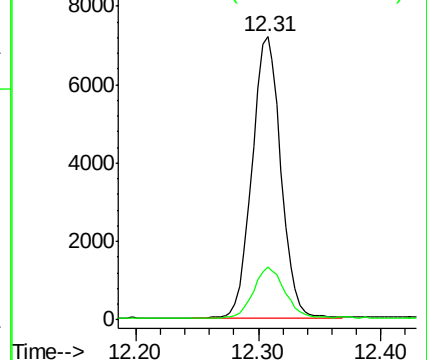
152 100

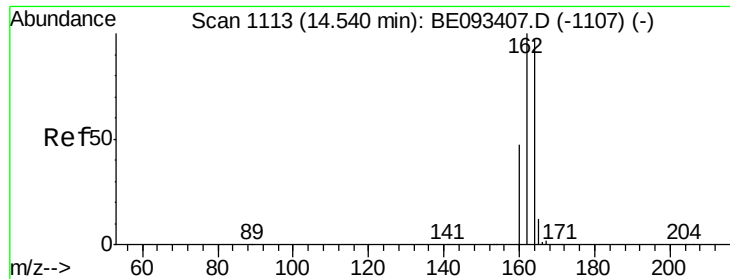
151 19.3 15.1 22.7



Abundance Ion 152.00 (151.70 to 152.70): BE0

Ion 151.00 (150.70 to 151.70): BE0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.54 min Scan# 1113

Delta R.T. 0.00 min

Lab File: BE093445.D

Acq: 7 Jul 2017 16:19

Instrument :

BNA\_E

ClientSampleId :

MW-22BR-20170630

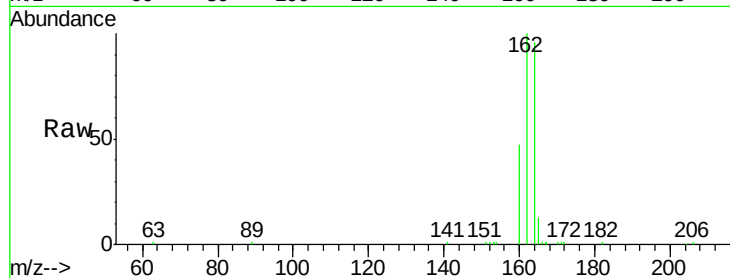
Tgt Ion:164 Resp: 13797

Ion Ratio Lower Upper

164 100

162 103.7 84.6 127.0

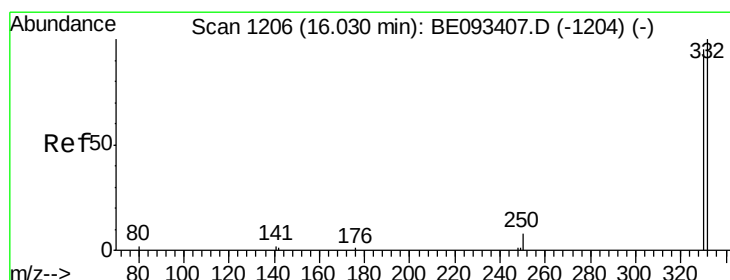
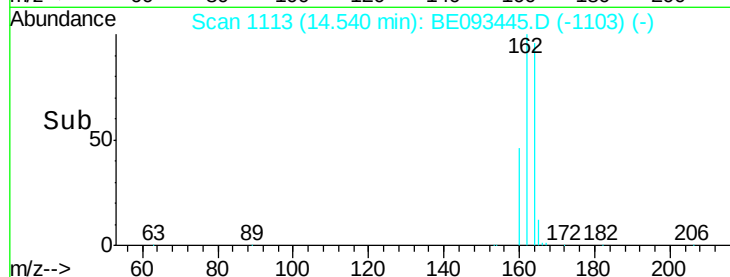
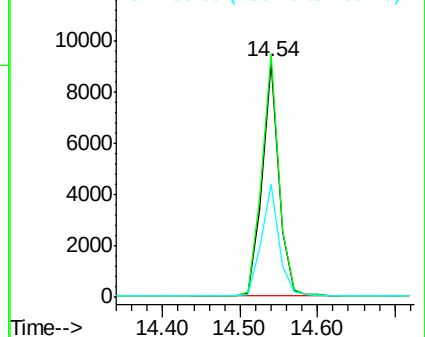
160 48.4 41.8 62.6



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

2,4,6-Tribromophenol

Concen: 0.266 ng

RT: 16.03 min Scan# 1206

Delta R.T. -0.00 min

Lab File: BE093445.D

Acq: 7 Jul 2017 16:19

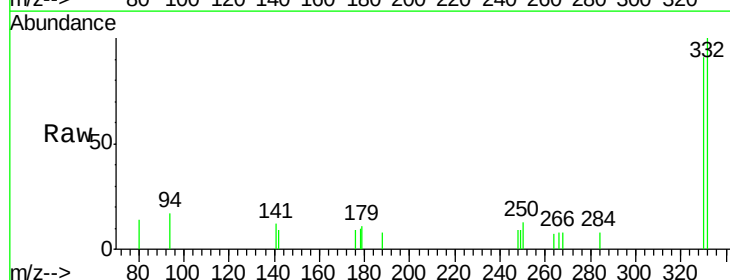
Tgt Ion:330 Resp: 1152

Ion Ratio Lower Upper

330 100

332 107.5 77.7 116.5

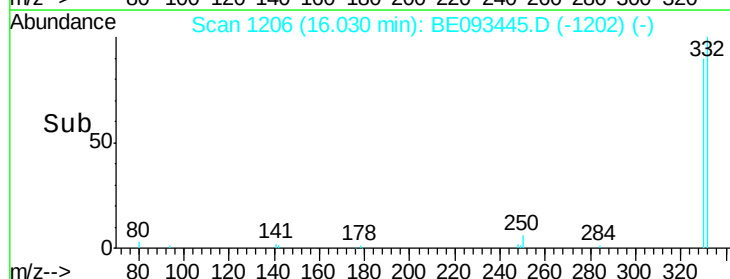
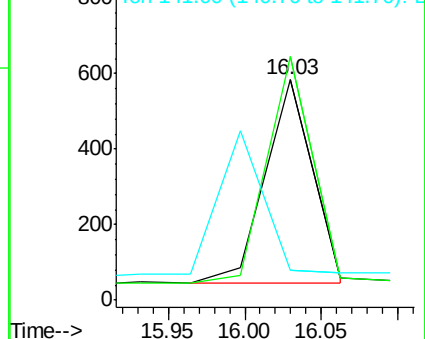
141 0.0 56.2 84.4#

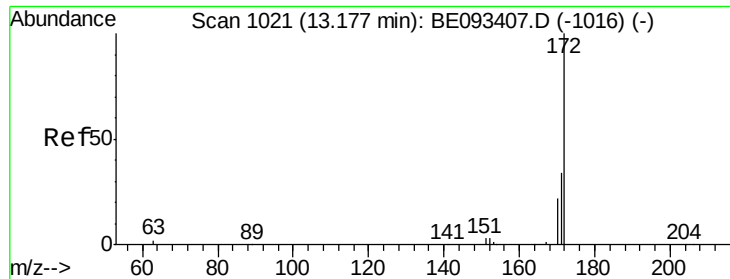


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

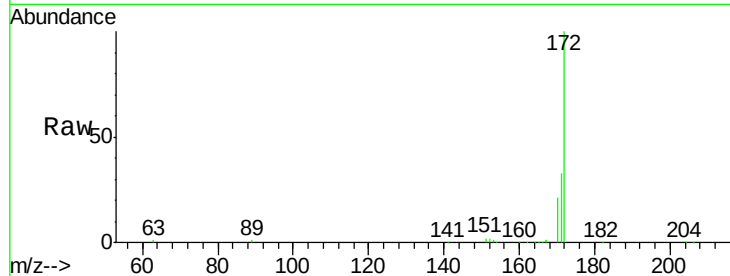




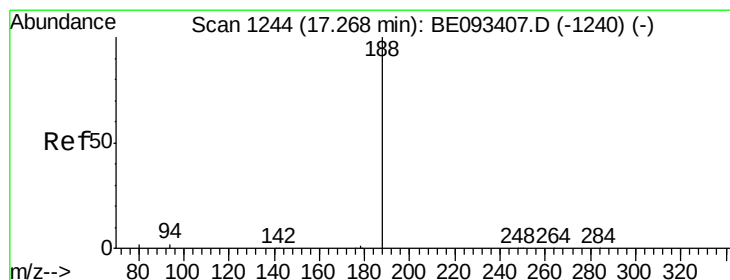
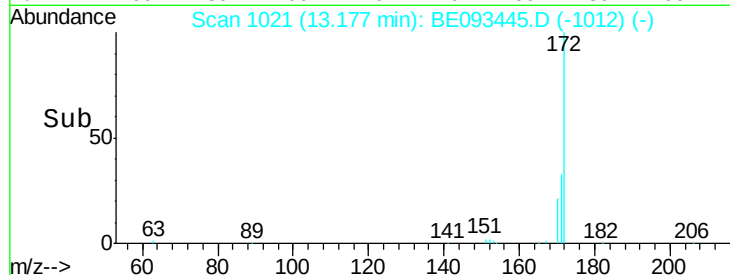
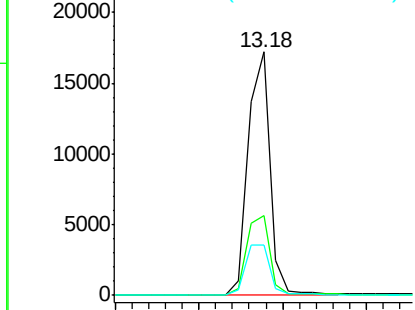
#15  
2-Fluorobiphenyl  
Concen: 0.581 ng  
RT: 13.18 min Scan# 1021  
Delta R.T. 0.00 min  
Lab File: BE093445.D  
Acq: 7 Jul 2017 16:19

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Tgt Ion:172 Resp: 31094  
Ion Ratio Lower Upper  
172 100  
171 32.8 29.8 44.6  
170 20.8 20.7 31.1

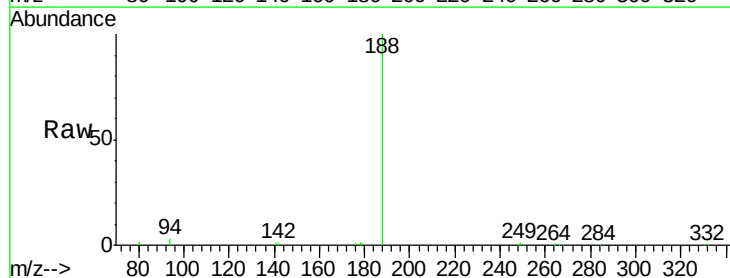


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

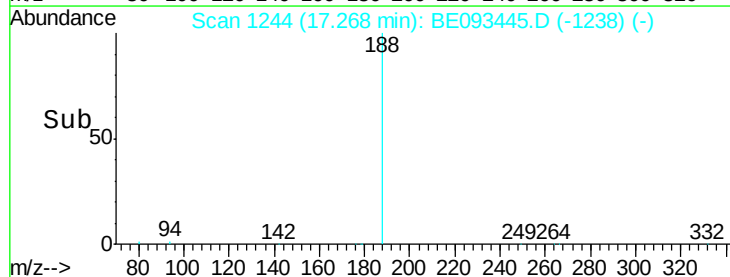
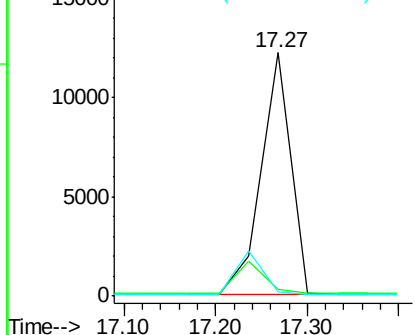


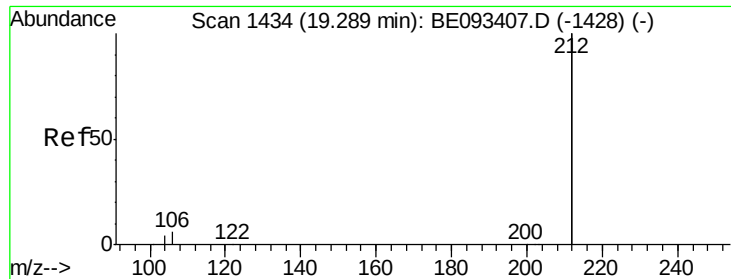
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.27 min Scan# 1244  
Delta R.T. -0.00 min  
Lab File: BE093445.D  
Acq: 7 Jul 2017 16:19

Tgt Ion:188 Resp: 27955  
Ion Ratio Lower Upper  
188 100  
94 2.6 11.3 16.9#  
80 1.8 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





#25

Fluoranthene-d10

Concen: 0.441 ng

RT: 19.29 min Scan# 1434

Delta R.T. -0.00 min

Lab File: BE093445.D

Acq: 7 Jul 2017 16:19

Instrument :

BNA\_E

ClientSampleId :

MW-22BR-20170630

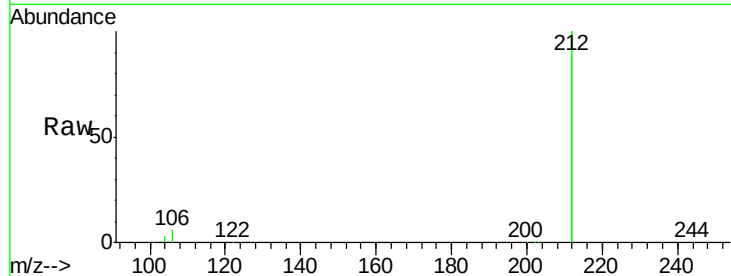
Tgt Ion:212 Resp: 148761

Ion Ratio Lower Upper

212 100

106 3.5 2.4 3.6

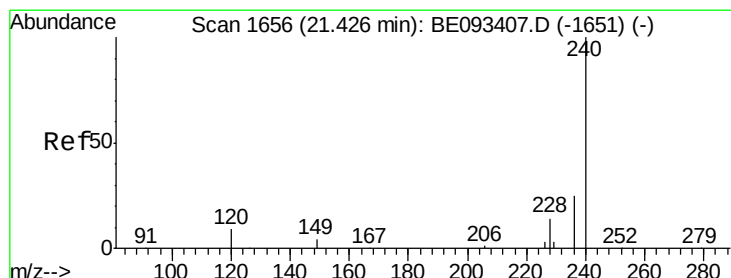
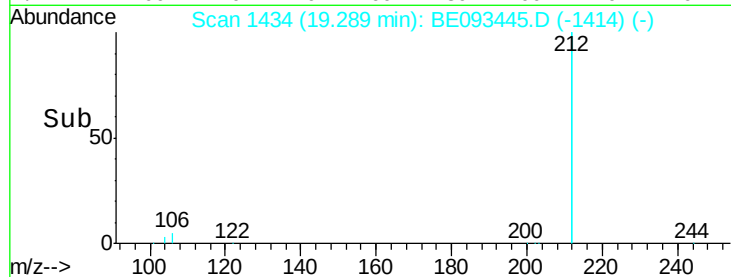
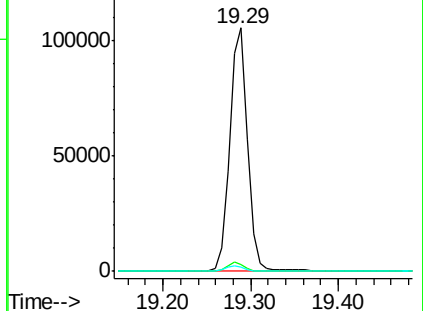
104 2.0 1.6 2.4



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: 0.400 ng

RT: 21.43 min Scan# 1656

Delta R.T. -0.00 min

Lab File: BE093445.D

Acq: 7 Jul 2017 16:19

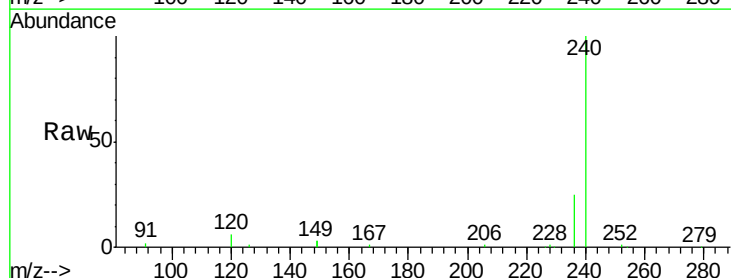
Tgt Ion:240 Resp: 38917

Ion Ratio Lower Upper

240 100

120 6.5 4.6 7.0

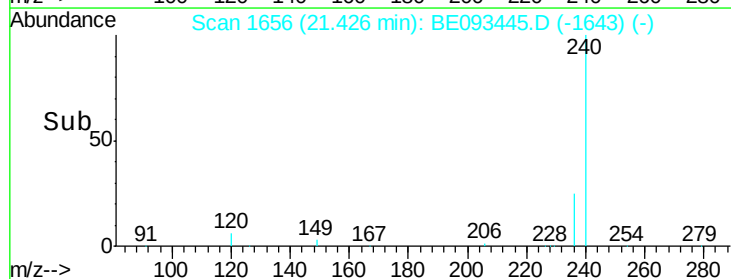
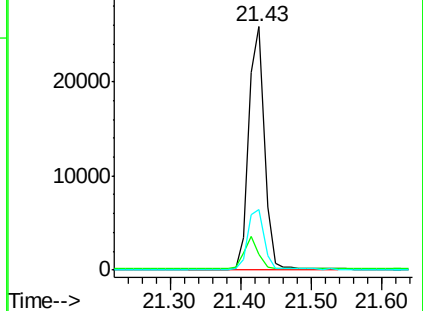
236 25.0 20.8 31.2



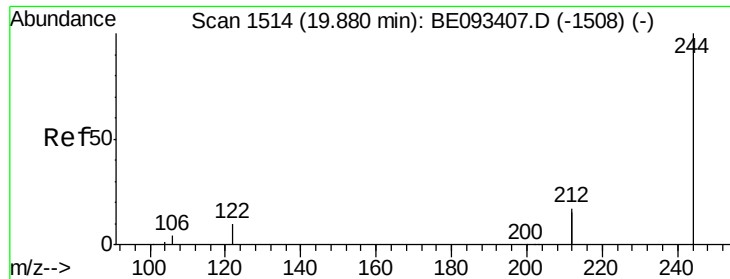
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E







#29

Terphenyl-d14

Concen: 0.501 ng

RT: 19.87 min Scan# 1513

Delta R.T. -0.01 min

Lab File: BE093445.D

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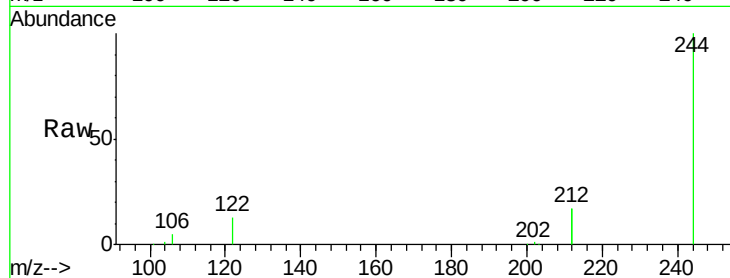
Tgt Ion:244 Resp: 34803

Ion Ratio Lower Upper

244 100

212 34.6 10.6 16.0#

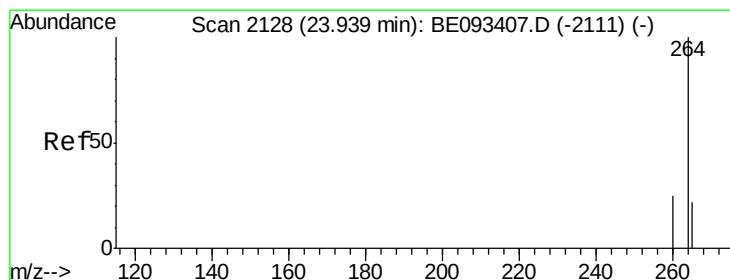
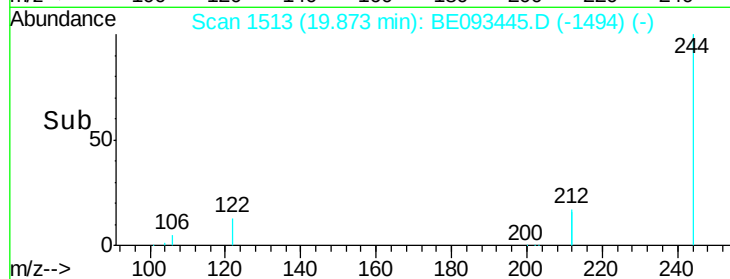
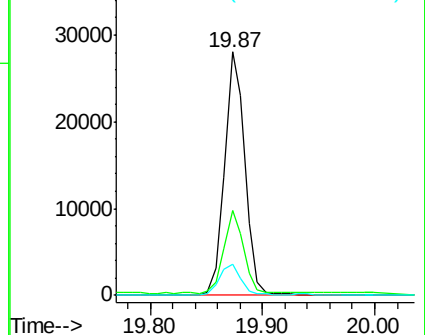
122 13.0 15.4 23.0#



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.93 min Scan# 2127

Delta R.T. -0.00 min

Lab File: BE093445.D

Acq: 7 Jul 2017 16:19

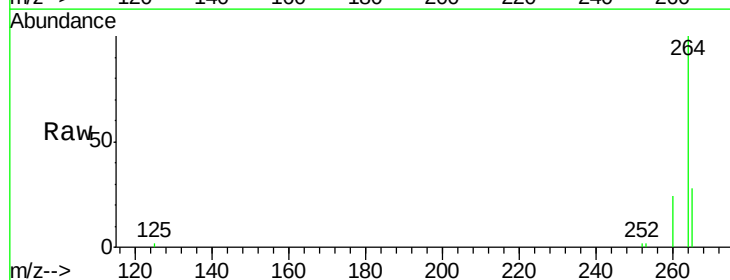
Tgt Ion:264 Resp: 33264

Ion Ratio Lower Upper

264 100

260 24.3 21.0 31.4

265 28.0 24.6 36.8



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

