

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE011416\
 Data File : BE091363.D
 Acq On : 14 Jan 2016 23:00
 Operator : UM/IZ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE011416

Quant Time: Jan 15 01:33:59 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE011416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 14 23:29:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	21302	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	99196	5.00	ng	0.00
8) Acenaphthene-d10	13.36	164	49820	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	150068	5.00	ng	0.00
18) Chrysene-d12	20.22	240	146748	5.00	ng	0.00
24) Perylene-d12	22.10	264	111950	5.00	ng	0.00

System Monitoring Compounds

2) 2-Fluorophenol	4.94	112	3081	1.31	ng	0.00
3) Phenol-d6	6.57	99	4984	1.28	ng	0.00
5) Nitrobenzene-d5	8.17	82	6017	1.05	ng	0.00
9) 2,4,6-Tribromophenol	14.89	330	900	0.98	ng	0.00
10) 2-Fluorobiphenyl	12.02	172	11612	1.08	ng	0.00
20) Terphenyl-d14	18.62	244	14413	0.96	ng	0.00

Target Compounds

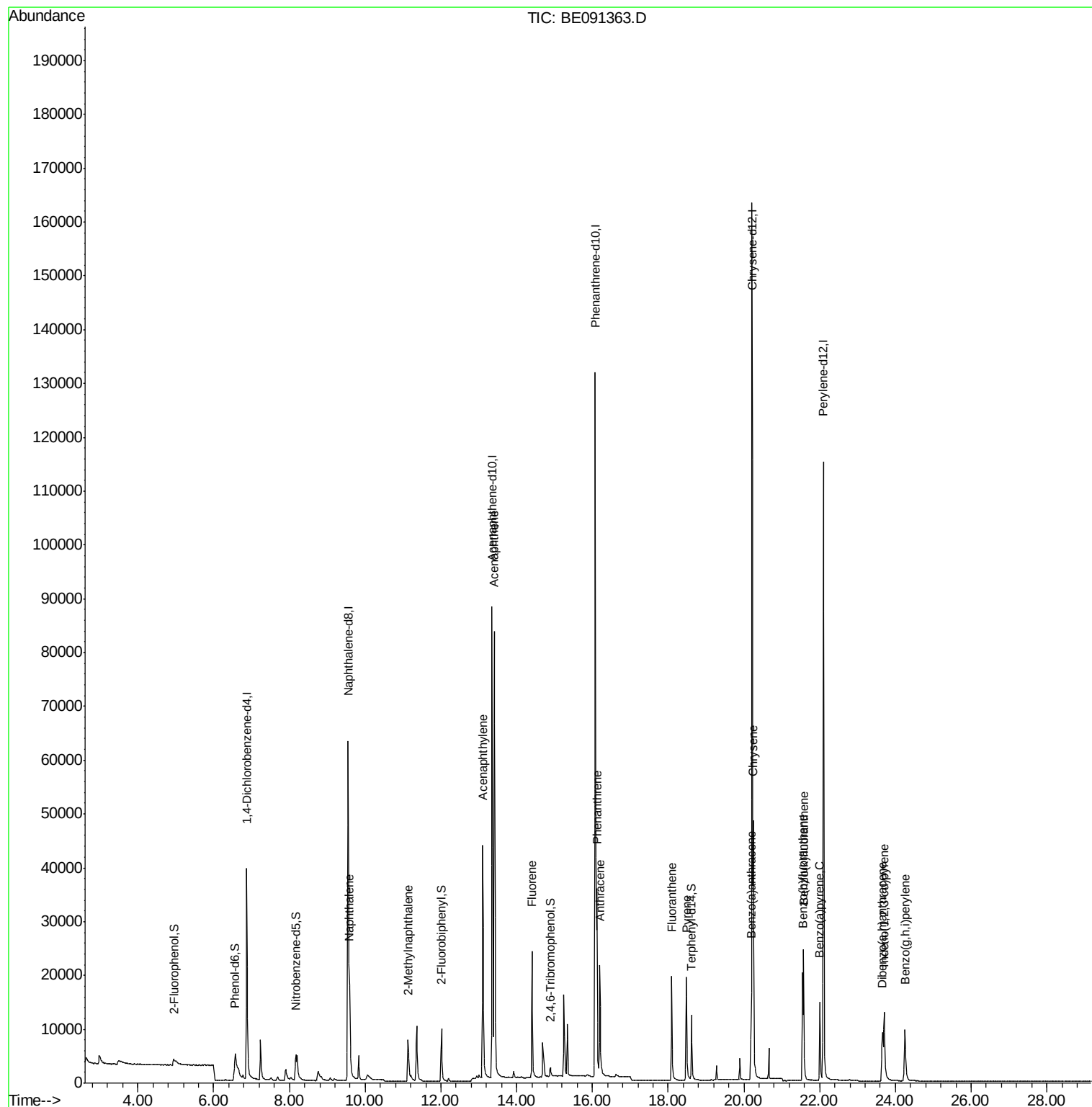
						Qvalue
6) Naphthalene	9.59	128	22367	1.06	ng	99
7) 2-Methylnaphthalene	11.14	142	8198	0.95	ng	93
11) Acenaphthylene	13.11	152	67781	0.96	ng	100
12) Acenaphthene	13.41	154	14580	1.03	ng	91
13) Fluorene	14.41	166	18117	1.03	ng	97
15) Phenanthrene	16.12	178	37669	1.01	ng	100
16) Anthracene	16.20	178	27145	0.96	ng	100
17) Fluoranthene	18.10	202	22231	0.81	ng	100
19) Pyrene	18.48	202	20101	0.91	ng	99
21) Benzo(a)anthracene	20.19	228	17787	0.90	ng	98
22) Chrysene	20.25	228	37825	1.06	ng	98
23) Indeno(1,2,3-cd)pyrene	23.71	276	19931	0.87	ng	94
25) Benzo(b)fluoranthene	21.55	252	21320	0.99	ng	99
26) Benzo(k)fluoranthene	21.58	252	24133	0.98	ng	99
27) Benzo(a)pyrene	22.01	252	17356	0.86	ng	99
28) Dibenzo(a,h)anthracene	23.66	278	14612	0.97	ng	100
29) Benzo(g,h,i)perylene	24.25	276	17805	0.95	ng	99

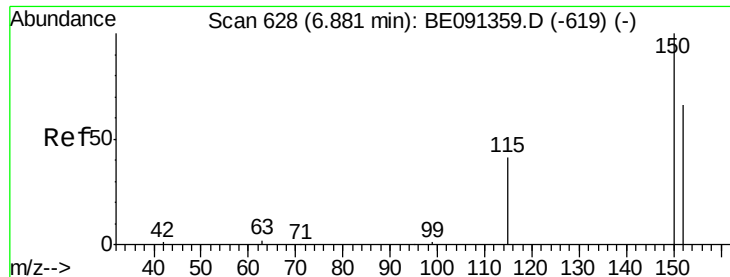
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.87 min Scan# 627

Delta R.T. -0.01 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416

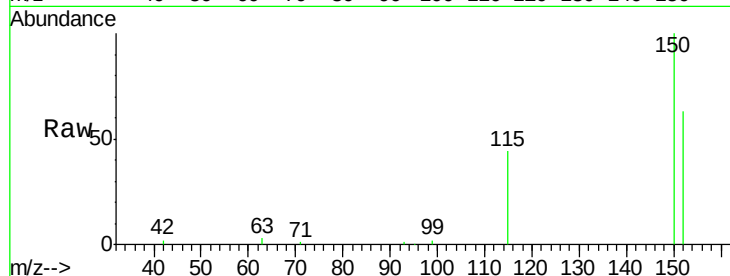
Tgt Ion:152 Resp: 21302

Ion Ratio Lower Upper

152 100

150 157.5 121.6 182.4

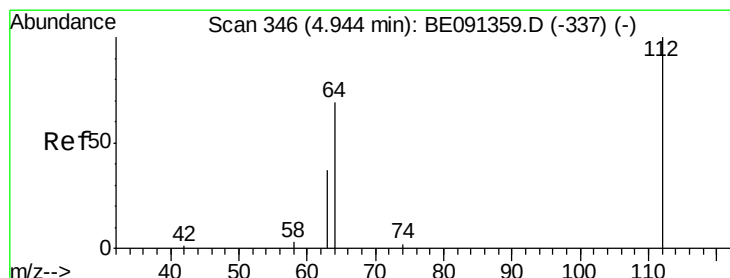
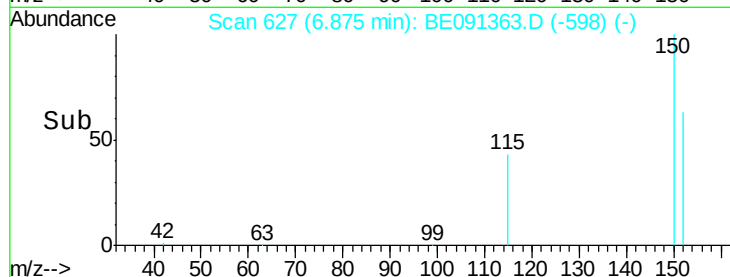
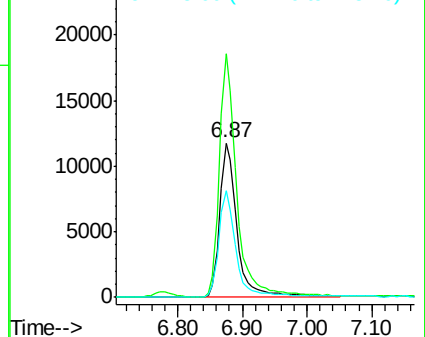
115 68.7 50.6 75.8



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

2-Fluorophenol

Concen: 1.31 ng

RT: 4.94 min Scan# 346

Delta R.T. 0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

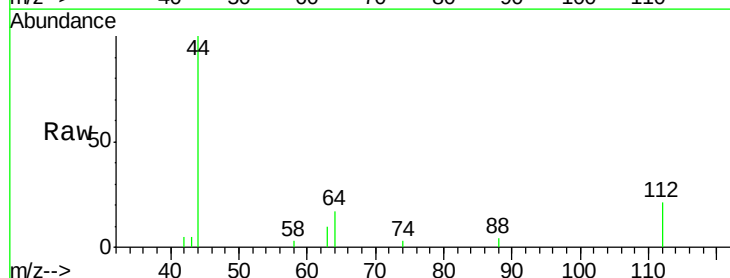
Tgt Ion:112 Resp: 3081

Ion Ratio Lower Upper

112 100

64 72.9 57.4 86.0

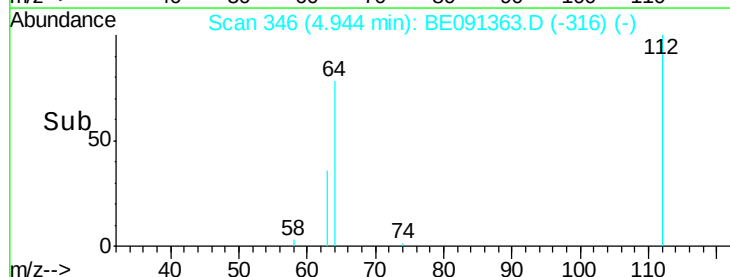
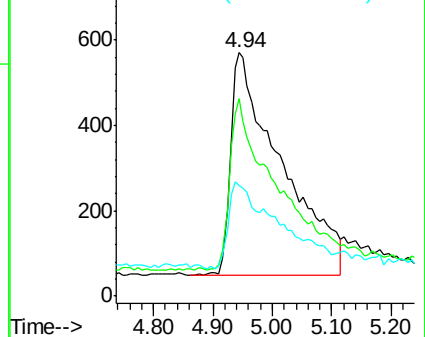
63 39.8 32.2 48.2

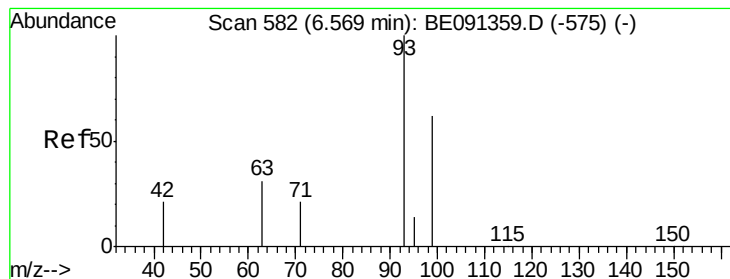


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 1.28 ng

RT: 6.57 min Scan# 582

Delta R.T. 0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416

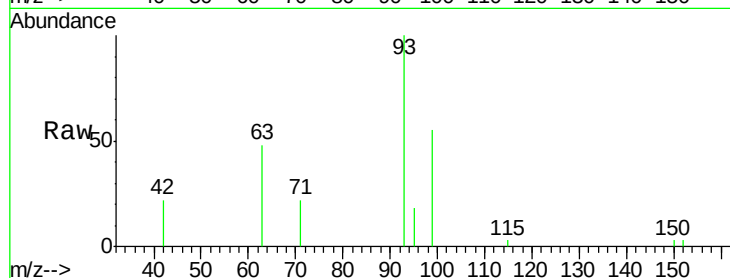
Tgt Ion: 99 Resp: 4984

Ion Ratio Lower Upper

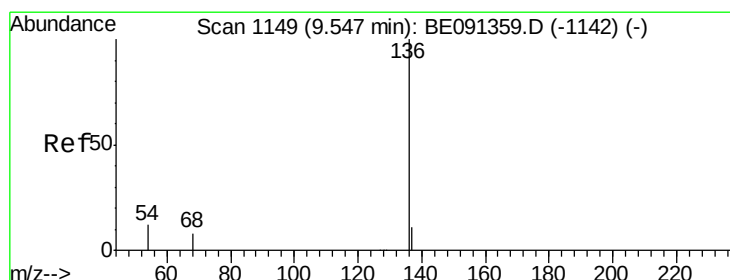
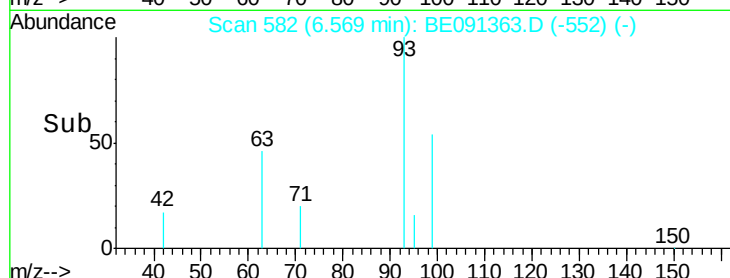
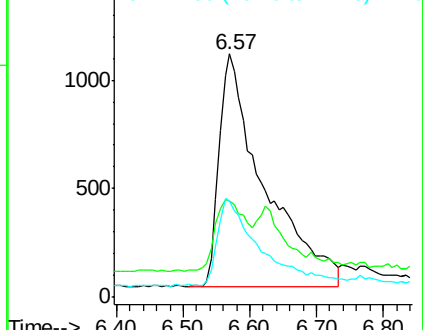
99 100

42 21.4 22.9 34.3#

71 35.8 35.4 53.2



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



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

Tgt Ion: 136 Resp: 99196

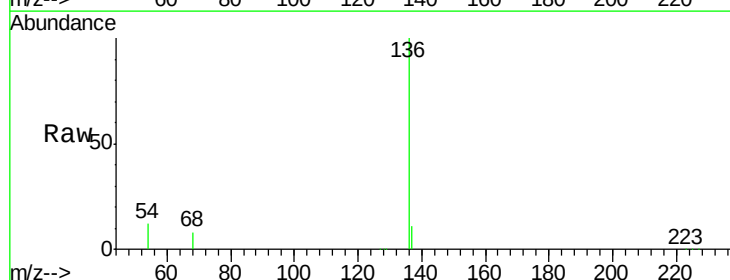
Ion Ratio Lower Upper

136 100

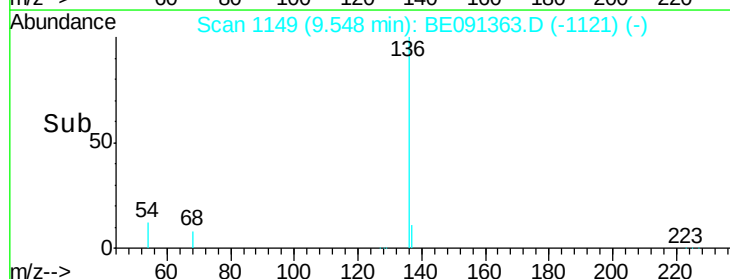
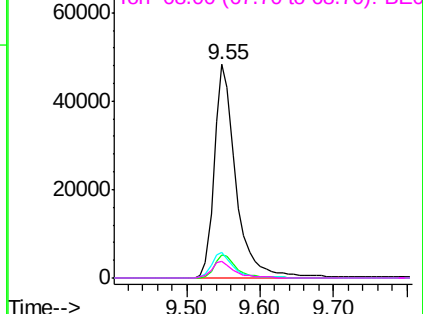
137 11.1 8.7 13.1

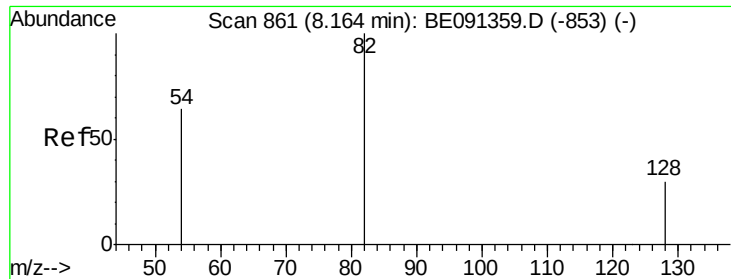
54 11.9 9.8 14.6

68 8.0 6.6 10.0



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





#5

Nitrobenzene-d5

Concen: 1.05 ng

RT: 8.17 min Scan# 862

Delta R.T. 0.01 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416

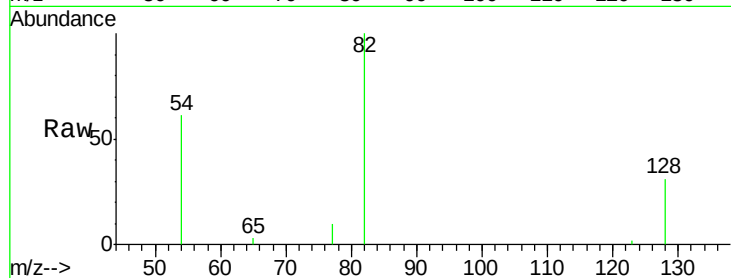
Tgt Ion: 82 Resp: 6017

Ion Ratio Lower Upper

82 100

128 31.4 24.6 36.8

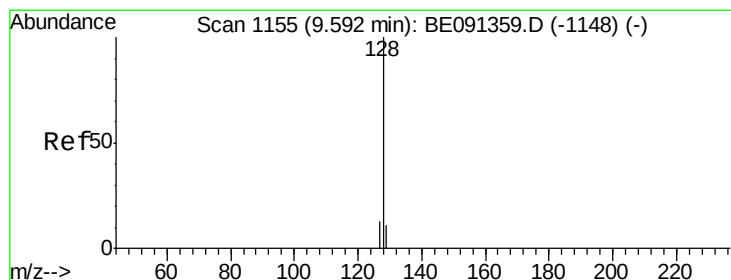
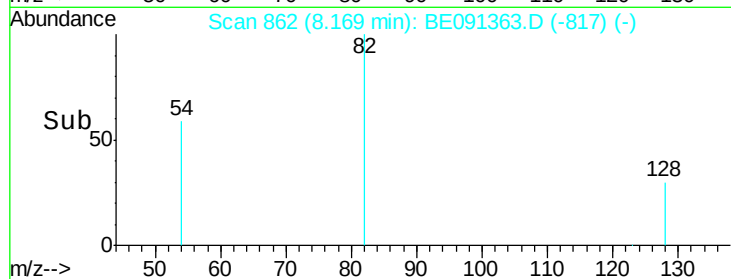
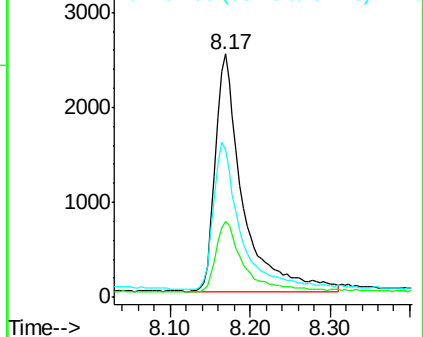
54 60.7 52.7 79.1



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



#6

Naphthalene

Concen: 1.06 ng

RT: 9.59 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

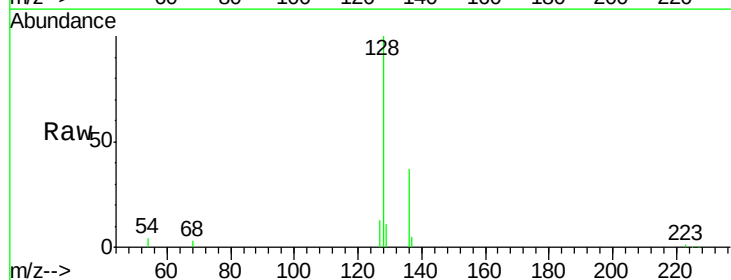
Tgt Ion: 128 Resp: 22367

Ion Ratio Lower Upper

128 100

129 11.2 9.3 13.9

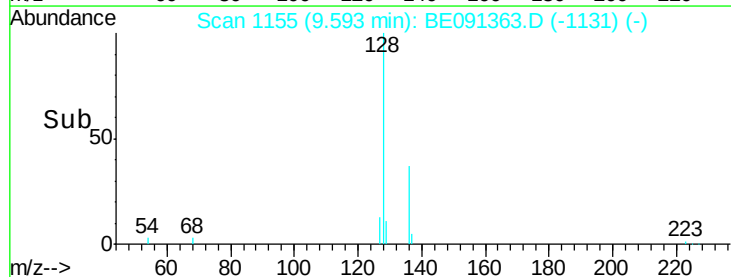
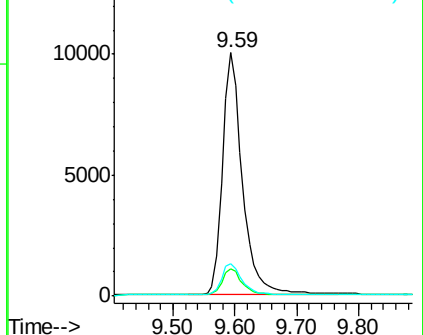
127 13.1 10.6 15.8

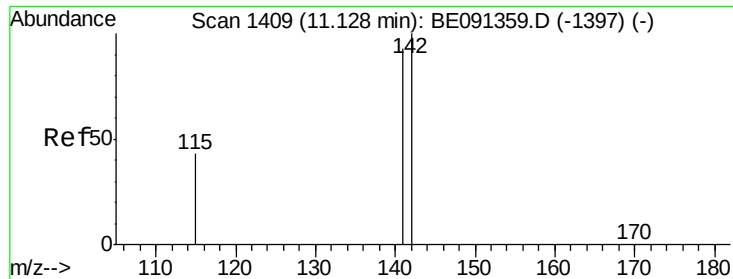


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.95 ng

RT: 11.14 min Scan# 1411

Delta R.T. 0.01 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416

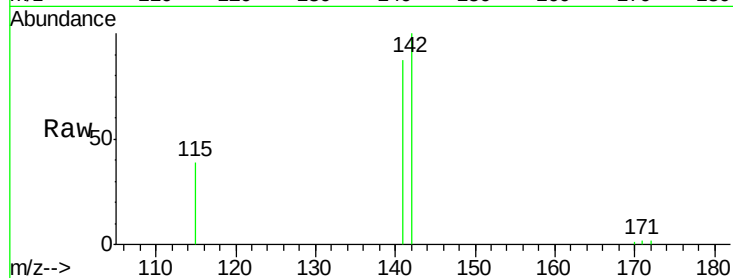
Tgt Ion:142 Resp: 8198

Ion Ratio Lower Upper

142 100

141 87.0 74.5 111.7

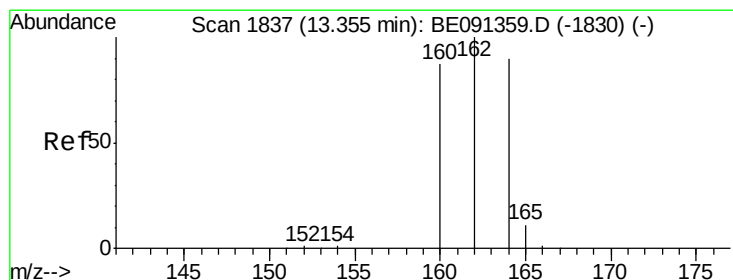
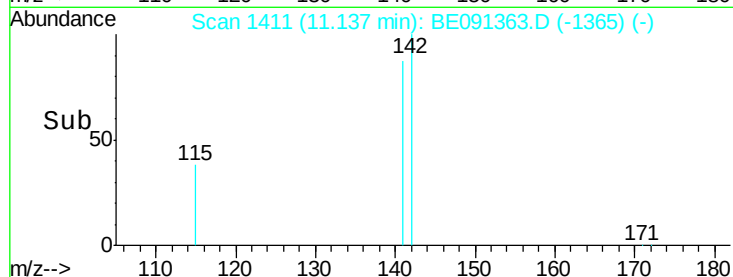
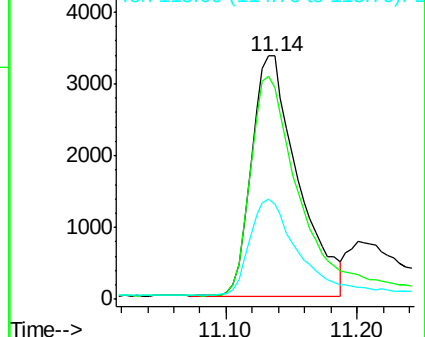
115 38.9 35.2 52.8



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.36 min Scan# 1838

Delta R.T. 0.01 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

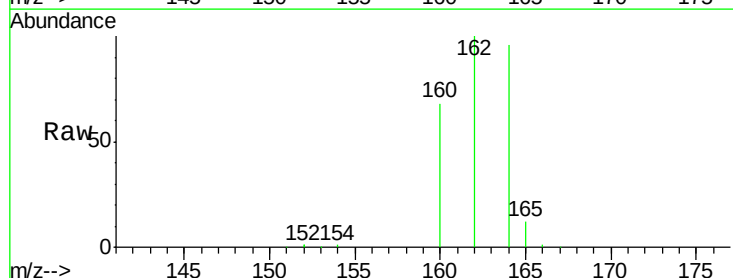
Tgt Ion:164 Resp: 49820

Ion Ratio Lower Upper

164 100

162 103.7 88.5 132.7

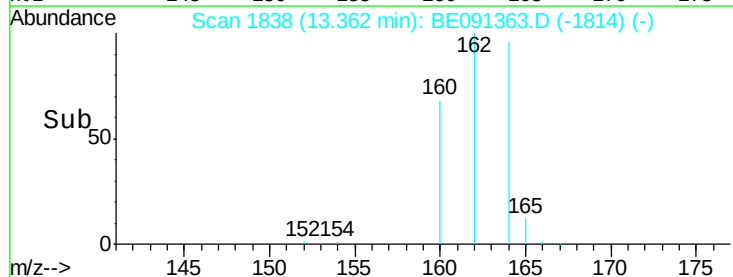
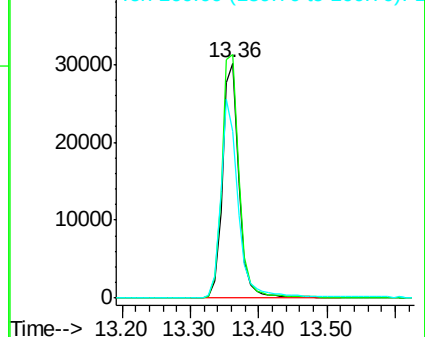
160 70.9 76.7 115.1#

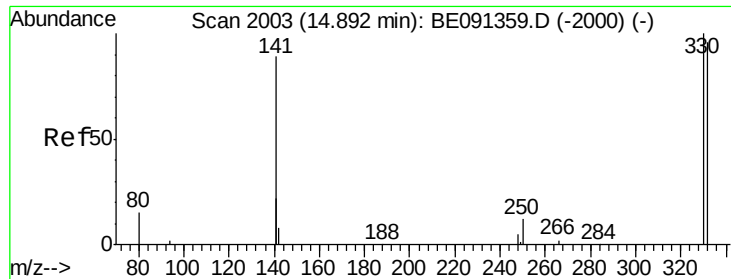


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 0.98 ng

RT: 14.89 min Scan# 2003

Delta R.T. -0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416

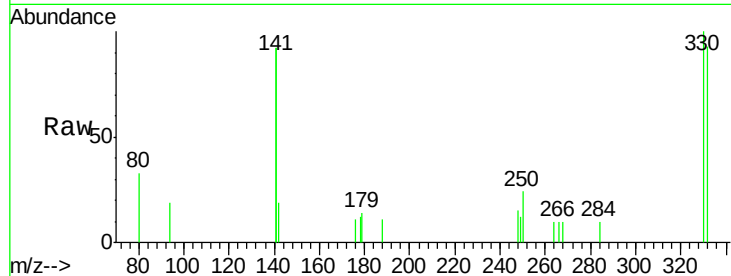
Tgt Ion:330 Resp: 900

Ion Ratio Lower Upper

330 100

332 97.2 78.6 118.0

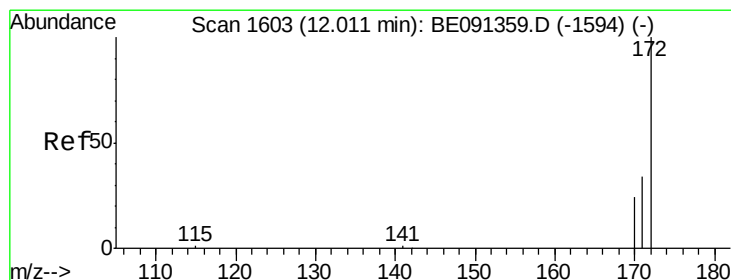
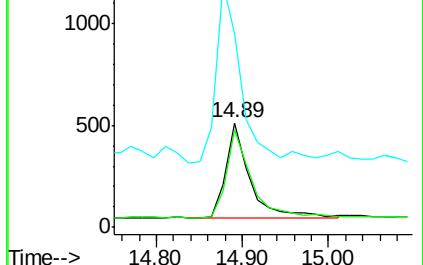
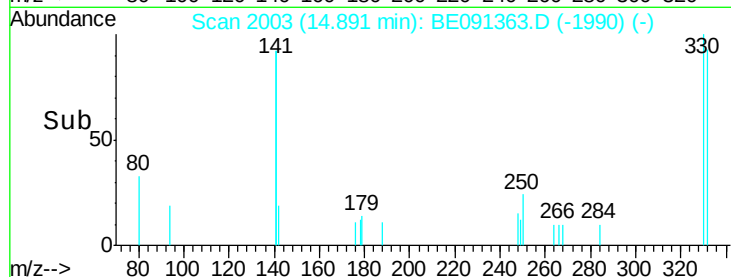
141 195.4 147.8 221.8



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#10

2-Fluorobiphenyl

Concen: 1.08 ng

RT: 12.02 min Scan# 1604

Delta R.T. 0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

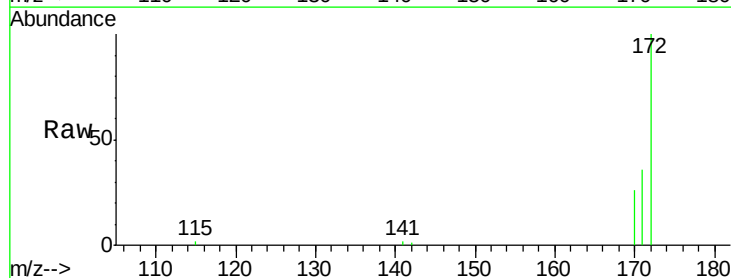
Tgt Ion:172 Resp: 11612

Ion Ratio Lower Upper

172 100

171 35.5 27.3 40.9

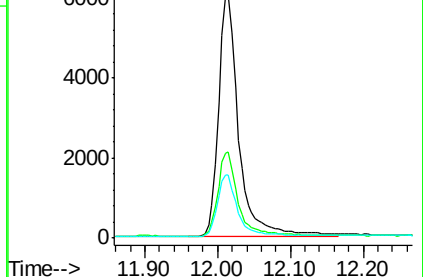
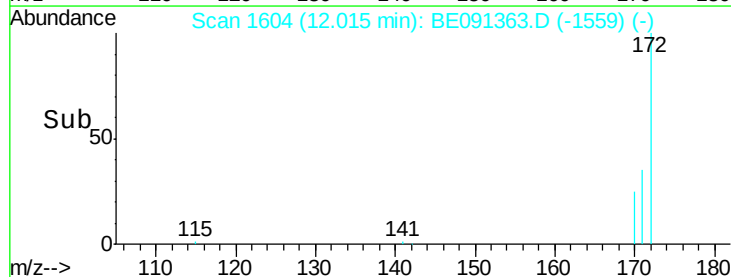
170 25.8 19.8 29.6

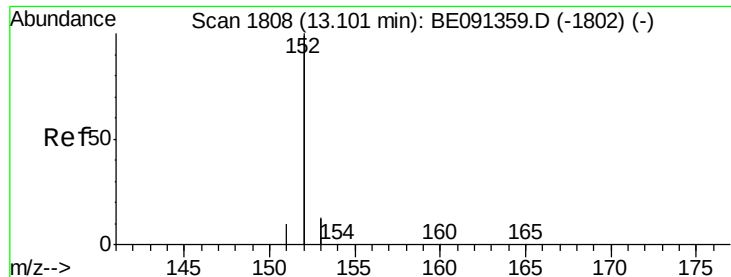


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 0.96 ng

RT: 13.11 min Scan# 1809

Delta R.T. 0.01 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416

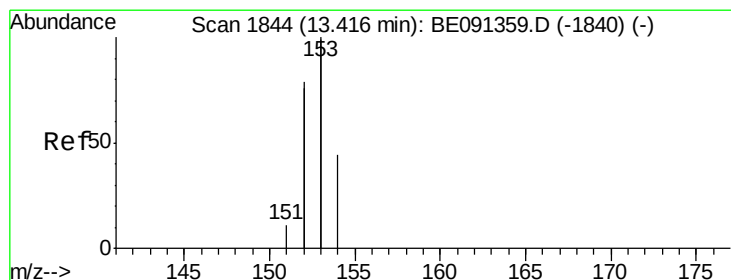
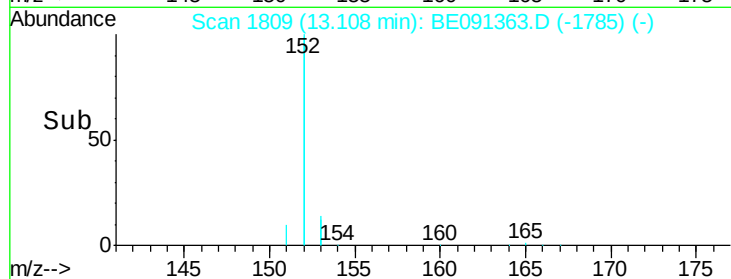
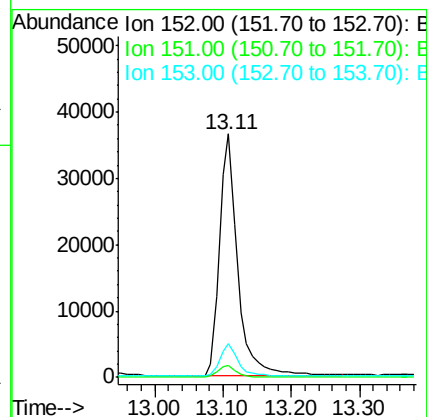
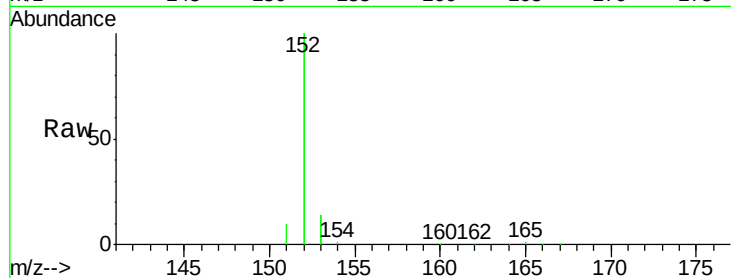
Tgt Ion:152 Resp: 67781

Ion Ratio Lower Upper

152 100

151 4.7 3.8 5.8

153 12.8 10.1 15.1



#12

Acenaphthene

Concen: 1.03 ng

RT: 13.41 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

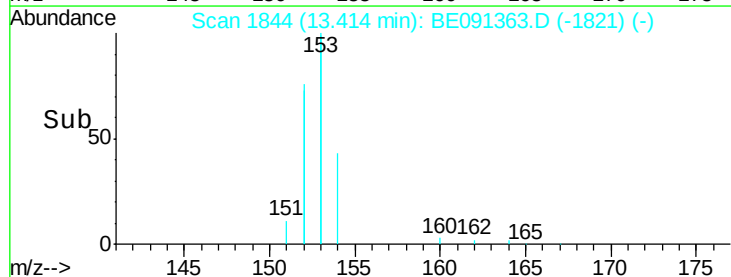
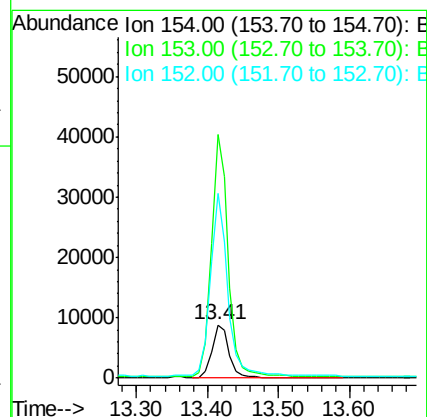
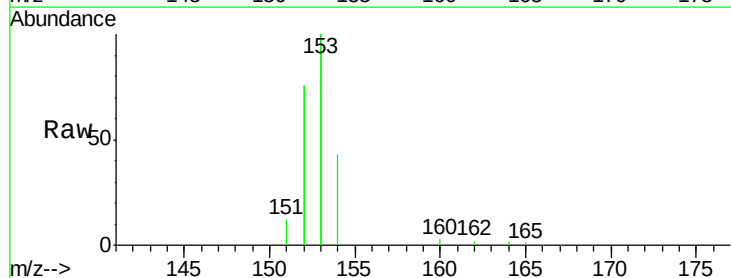
Tgt Ion:154 Resp: 14580

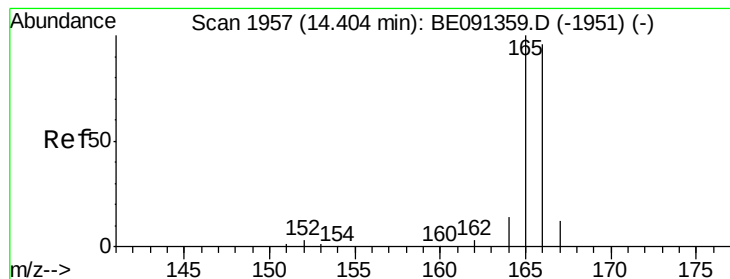
Ion Ratio Lower Upper

154 100

153 455.0 370.2 555.4

152 352.4 310.5 465.7





#13

Fluorene

Concen: 1.03 ng

RT: 14.41 min Scan# 1958

Delta R.T. 0.01 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416

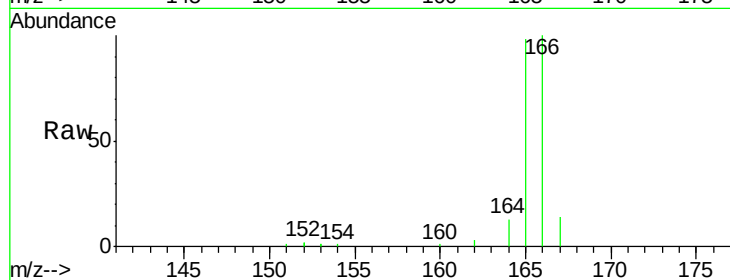
Tgt Ion:166 Resp: 18117

Ion Ratio Lower Upper

166 100

165 100.1 83.0 124.6

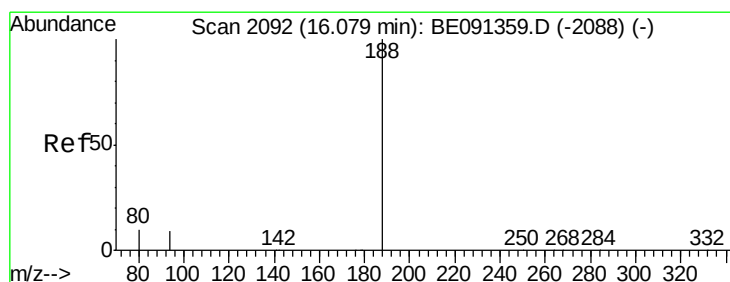
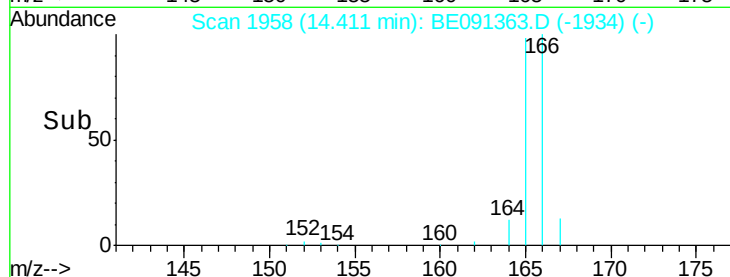
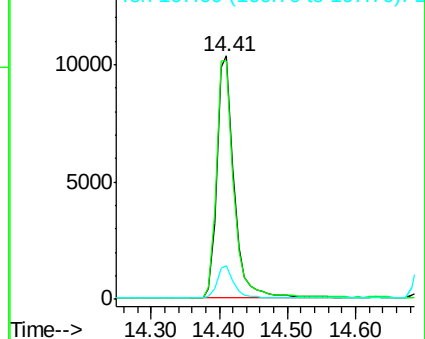
167 13.1 11.1 16.7



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2092

Delta R.T. -0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

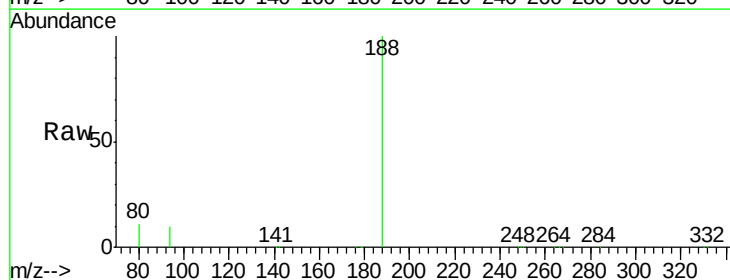
Tgt Ion:188 Resp: 150068

Ion Ratio Lower Upper

188 100

94 10.3 7.5 11.3

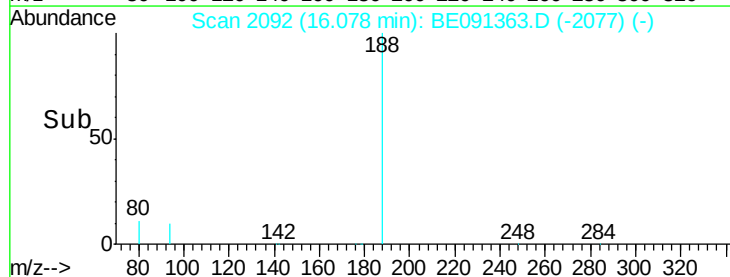
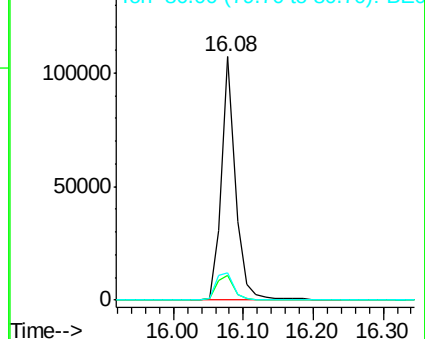
80 11.4 8.2 12.2

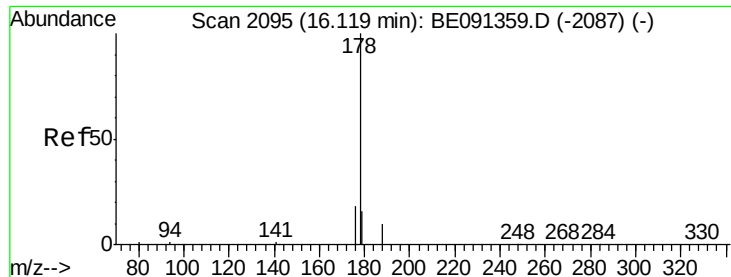


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#15

Phenanthrene

Concen: 1.01 ng

RT: 16.12 min Scan# 2095

Delta R.T. -0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416

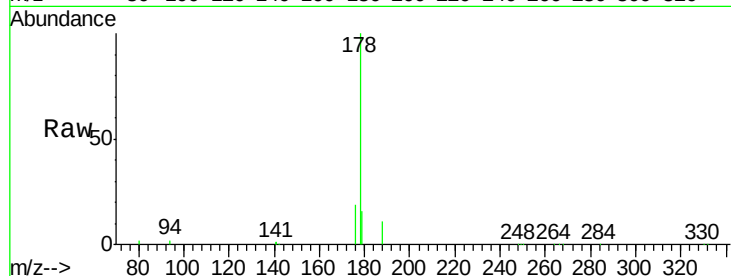
Tgt Ion:178 Resp: 37669

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

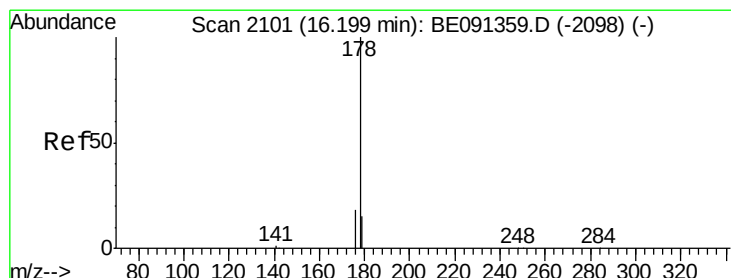
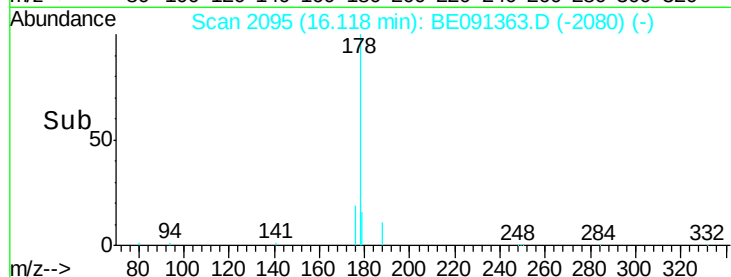
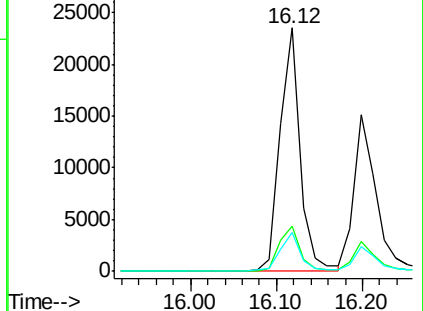
179 15.9 12.8 19.2



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



#16

Anthracene

Concen: 0.96 ng

RT: 16.20 min Scan# 2101

Delta R.T. -0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

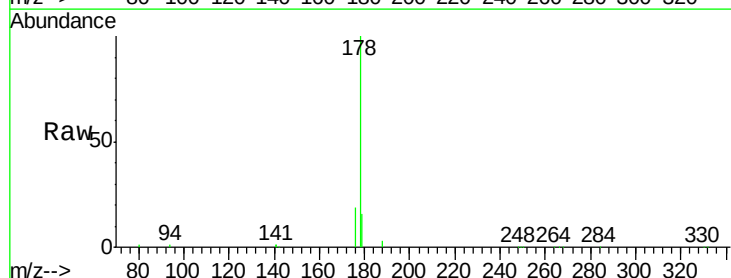
Tgt Ion:178 Resp: 27145

Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.6

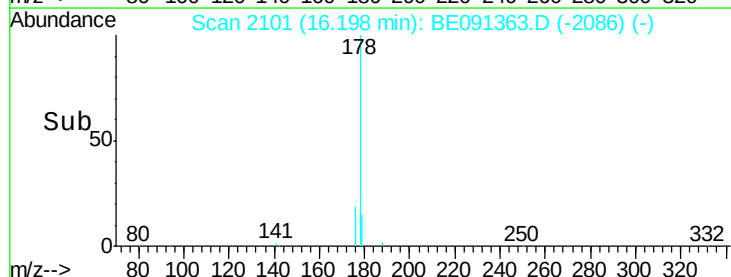
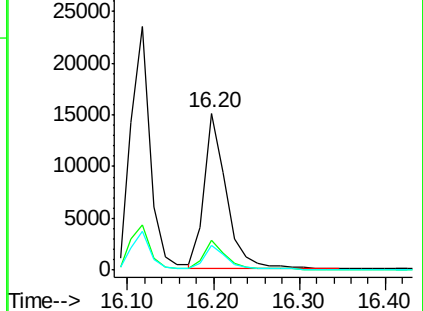
179 15.5 12.4 18.6

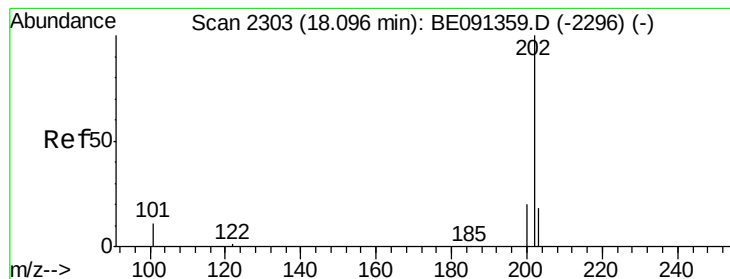


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Fluoranthene

Concen: 0.81 ng

RT: 18.10 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416

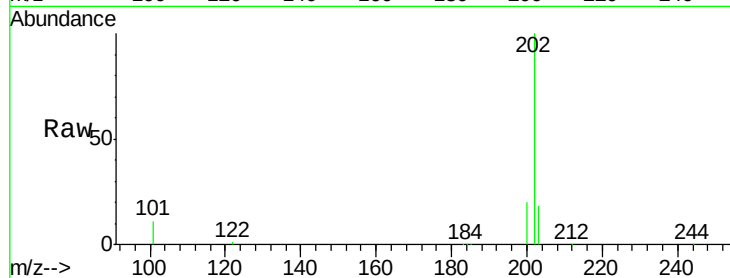
Tgt Ion:202 Resp: 22231

Ion Ratio Lower Upper

202 100

101 13.6 11.0 16.4

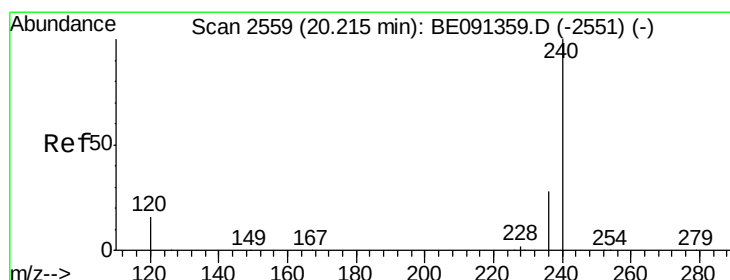
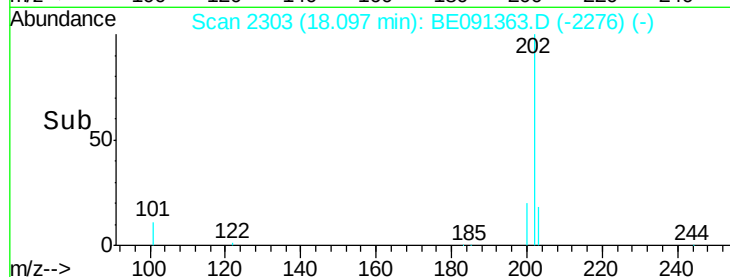
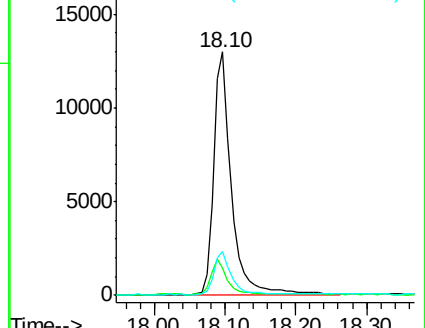
203 17.4 13.9 20.9



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



#18

Chrysene-d12

Concen: 5.00 ng

RT: 20.22 min Scan# 2559

Delta R.T. 0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

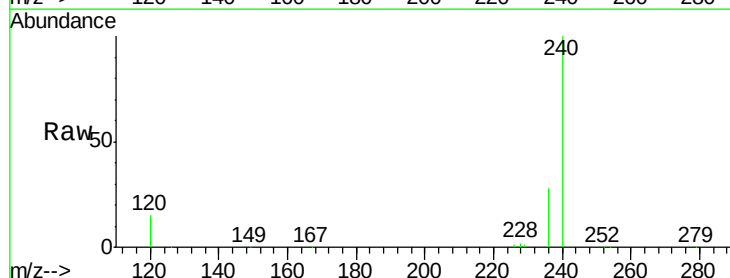
Tgt Ion:240 Resp: 146748

Ion Ratio Lower Upper

240 100

120 15.3 12.6 19.0

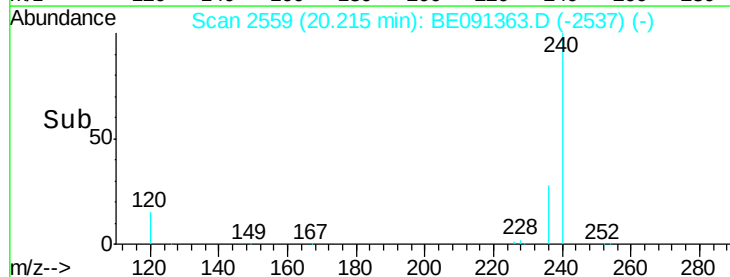
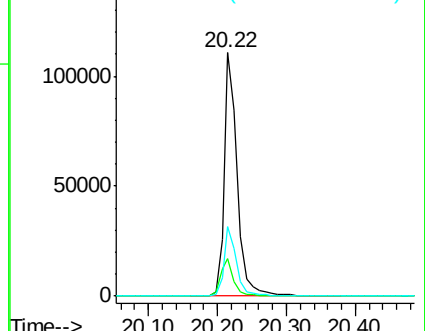
236 28.5 22.7 34.1

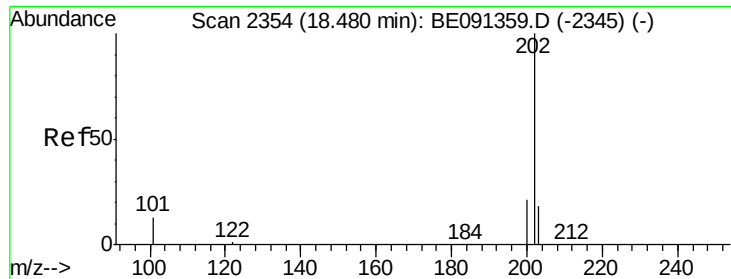


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#19

Pyrene

Concen: 0.91 ng

RT: 18.48 min Scan# 2354

Delta R.T. 0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416

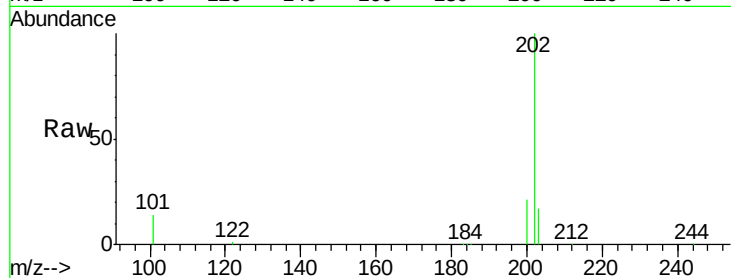
Tgt Ion:202 Resp: 20101

Ion Ratio Lower Upper

202 100

200 21.7 17.2 25.8

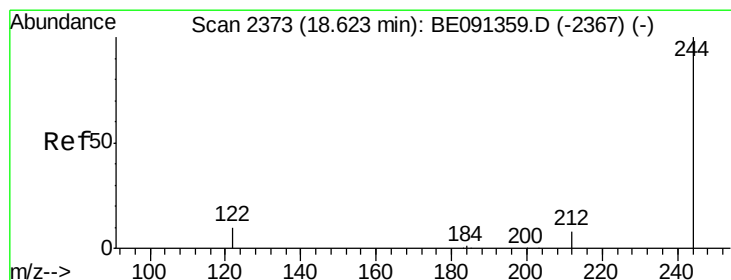
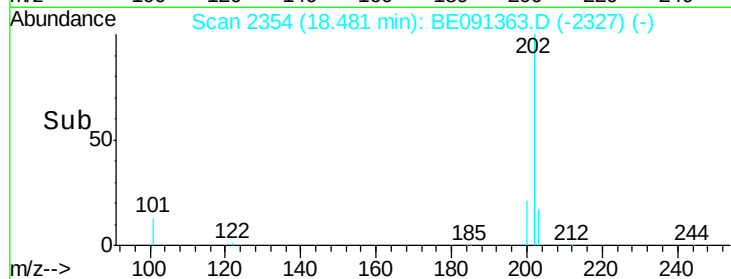
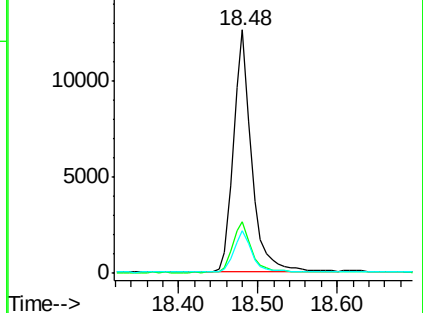
203 17.5 14.2 21.4



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



#20

Terphenyl-d14

Concen: 0.96 ng

RT: 18.62 min Scan# 2373

Delta R.T. 0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

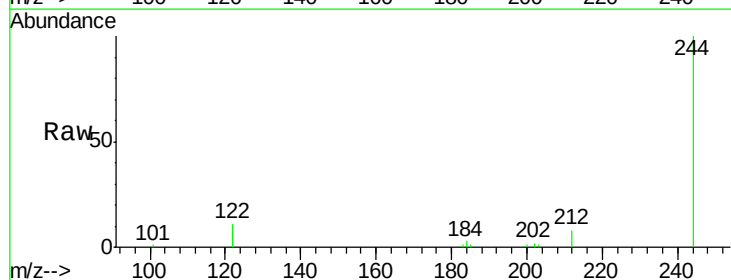
Tgt Ion:244 Resp: 14413

Ion Ratio Lower Upper

244 100

212 8.3 7.0 10.4

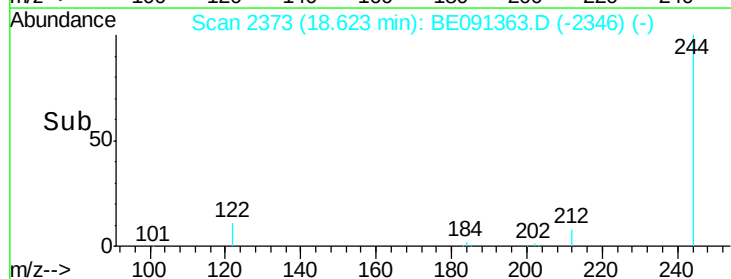
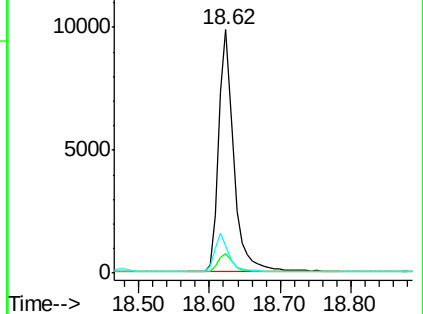
122 11.4 8.5 12.7

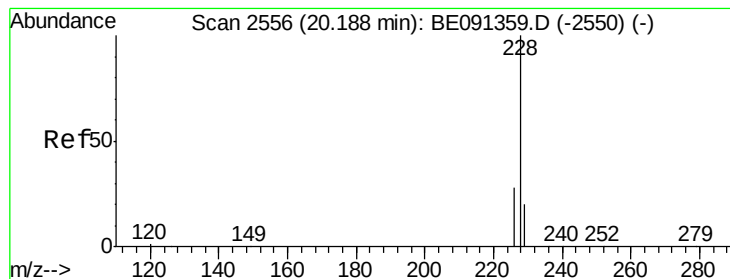


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 0.90 ng

RT: 20.19 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416

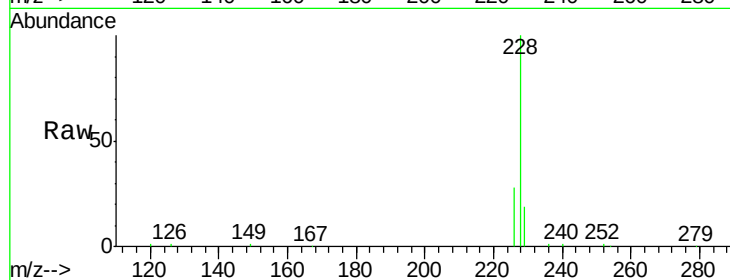
Tgt Ion:228 Resp: 17787

Ion Ratio Lower Upper

228 100

226 27.7 22.5 33.7

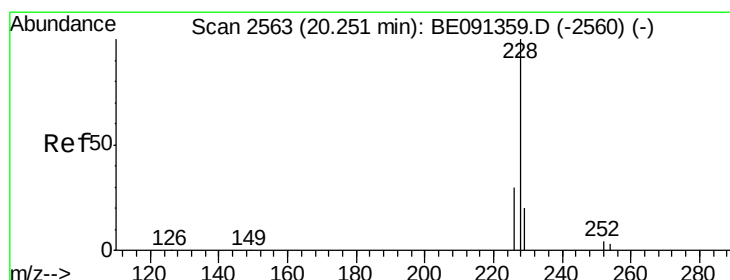
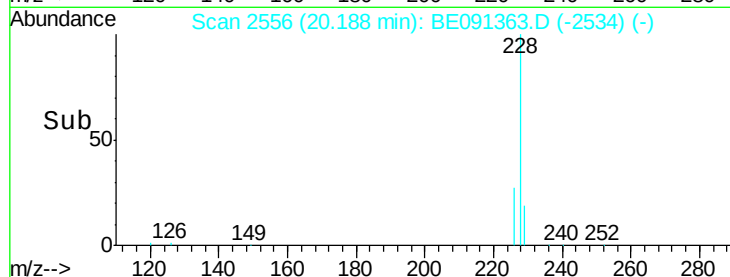
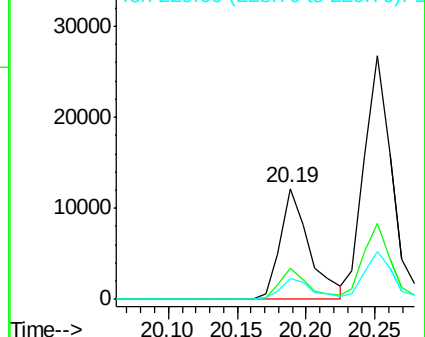
229 19.2 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#22

Chrysene

Concen: 1.06 ng

RT: 20.25 min Scan# 2563

Delta R.T. 0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

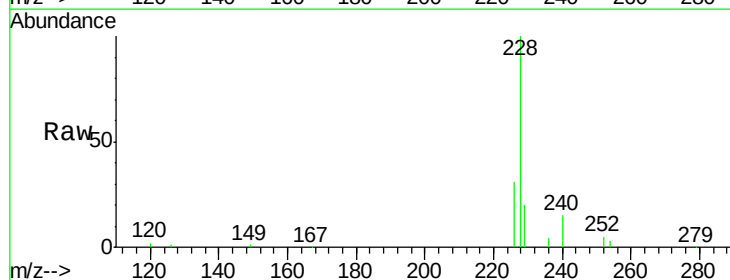
Tgt Ion:228 Resp: 37825

Ion Ratio Lower Upper

228 100

226 31.2 23.7 35.5

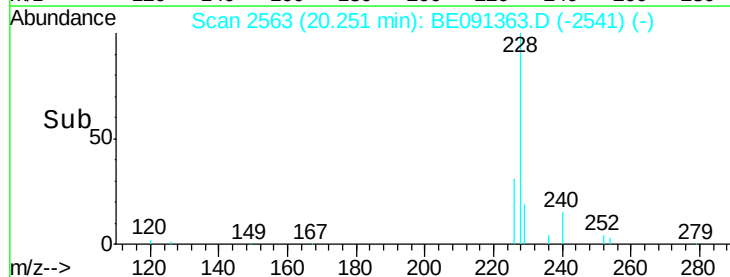
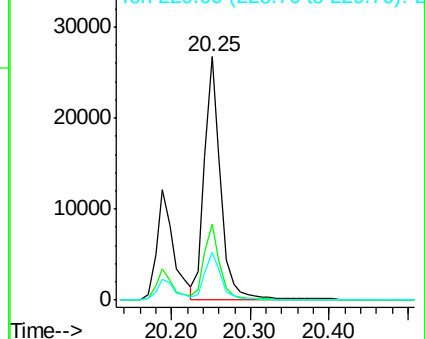
229 19.6 16.0 24.0

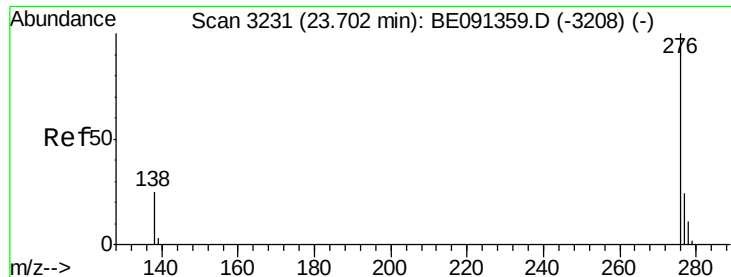


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Indeno(1,2,3-cd)pyrene

Concen: 0.87 ng

RT: 23.71 min Scan# 3233

Delta R.T. 0.01 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416

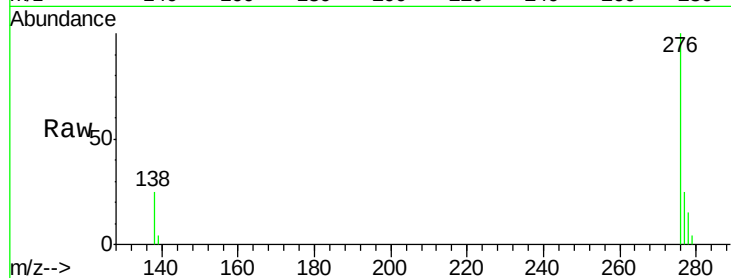
Tgt Ion:276 Resp: 19931

Ion Ratio Lower Upper

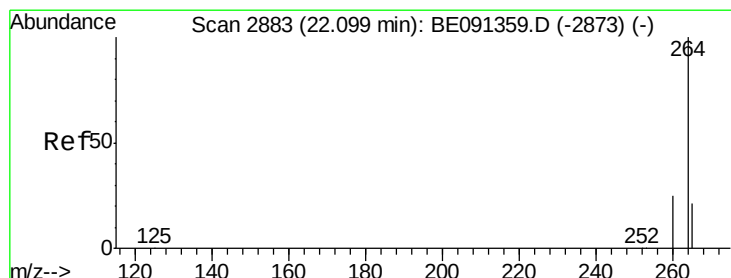
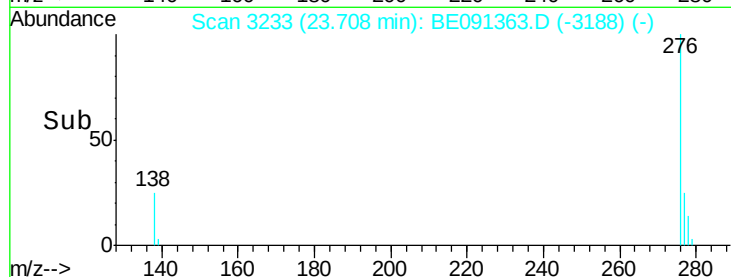
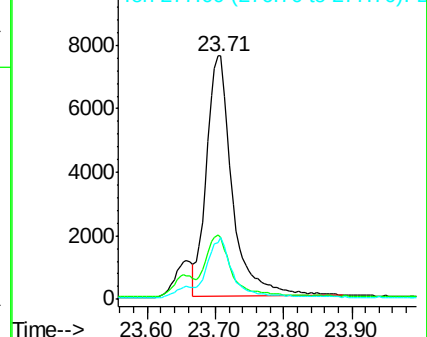
276 100

138 25.7 18.6 27.8

277 23.8 16.5 24.7



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#24

Perylene-d12

Concen: 5.00 ng

RT: 22.10 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

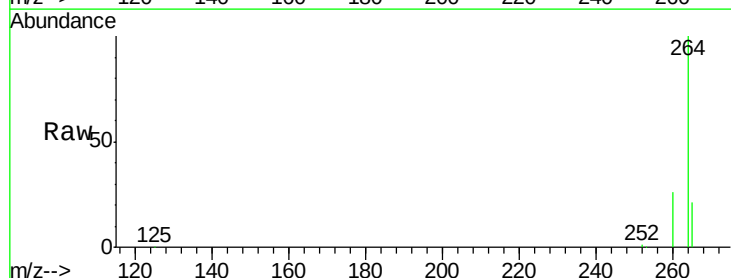
Tgt Ion:264 Resp: 111950

Ion Ratio Lower Upper

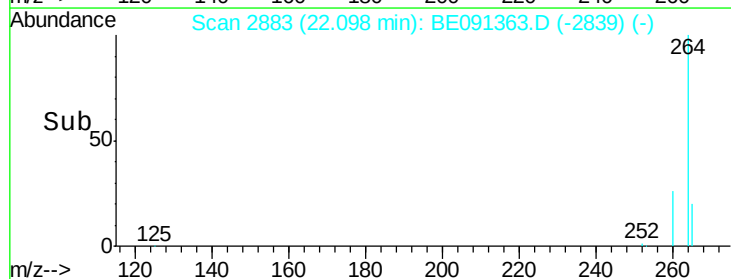
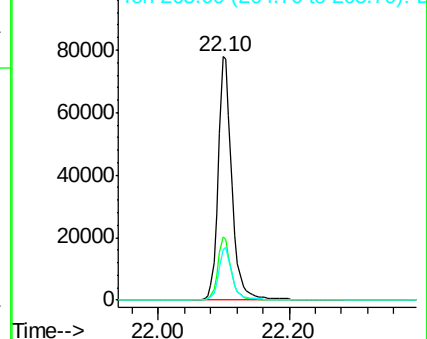
264 100

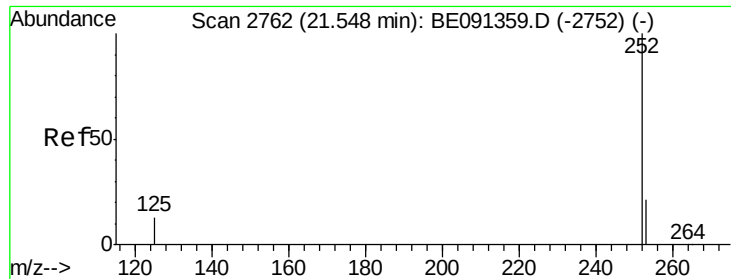
260 25.9 20.4 30.6

265 20.7 17.2 25.8



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

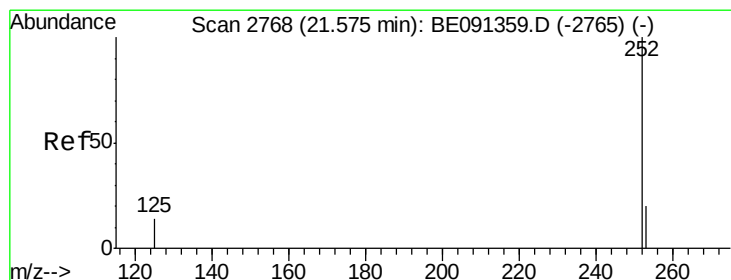
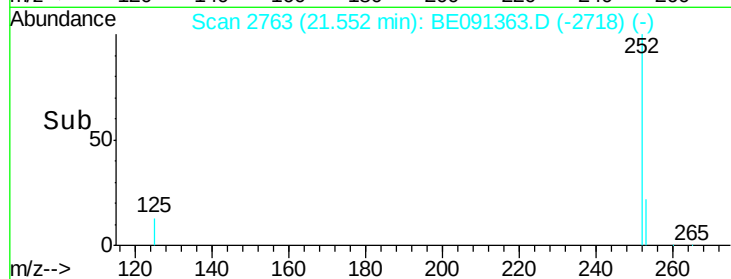
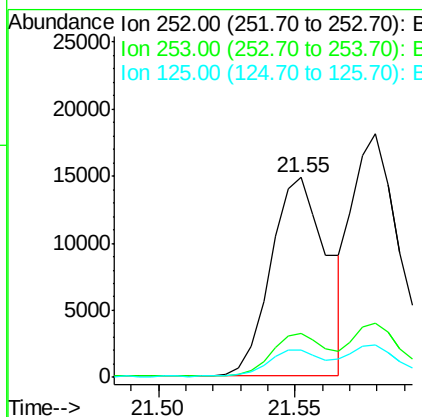
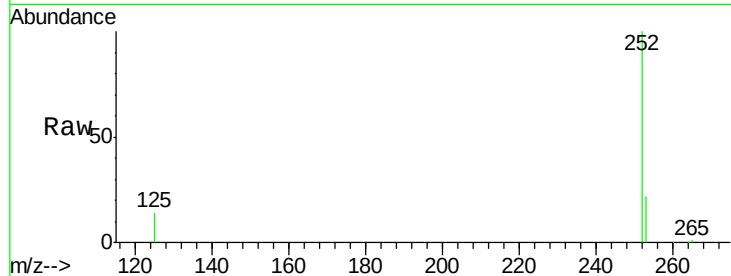




#25
Benzo(b)fluoranthene
Concen: 0.99 ng
RT: 21.55 min Scan# 2763
Delta R.T. 0.00 min
Lab File: BE091363.D
Acq: 14 Jan 2016 23:00

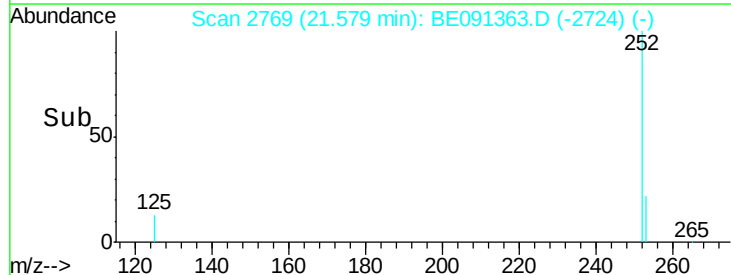
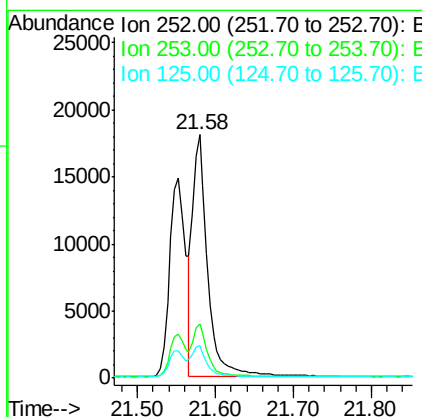
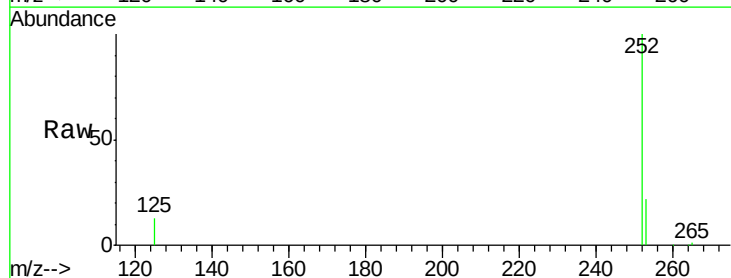
Instrument :
BNA_E
ClientSampleId :
ICVBE011416

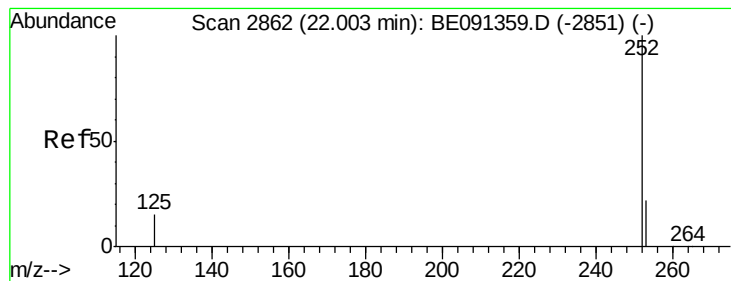
Tgt Ion: 252 Resp: 21320
Ion Ratio Lower Upper
252 100
253 22.3 17.4 26.2
125 13.7 11.0 16.6



#26
Benzo(k)fluoranthene
Concen: 0.98 ng
RT: 21.58 min Scan# 2769
Delta R.T. 0.00 min
Lab File: BE091363.D
Acq: 14 Jan 2016 23:00

Tgt Ion: 252 Resp: 24133
Ion Ratio Lower Upper
252 100
253 22.1 17.5 26.3
125 13.2 11.3 16.9





#27

Benzo(a)pyrene

Concen: 0.86 ng

RT: 22.01 min Scan# 2863

Delta R.T. 0.00 min

Lab File: BE091363.D

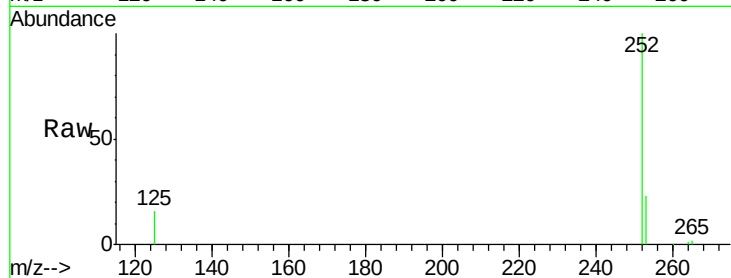
Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416



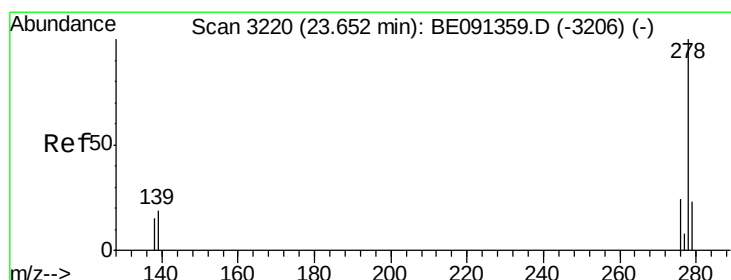
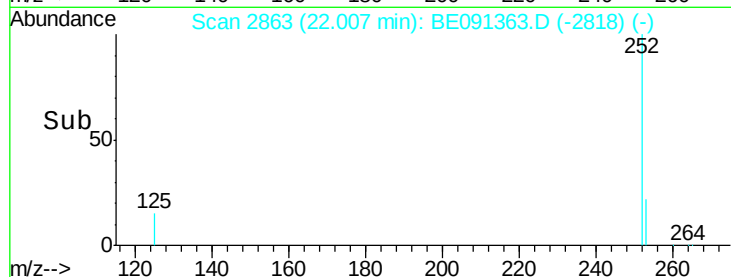
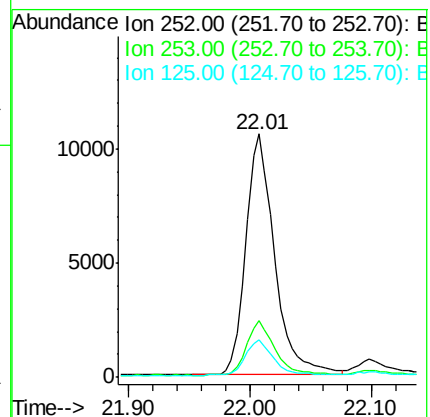
Tgt Ion:252 Resp: 17356

Ion Ratio Lower Upper

252 100

253 23.1 18.1 27.1

125 15.6 12.2 18.4



#28

Dibenzo(a,h)anthracene

Concen: 0.97 ng

RT: 23.66 min Scan# 3222

Delta R.T. 0.01 min

Lab File: BE091363.D

Acq: 14 Jan 2016 23:00

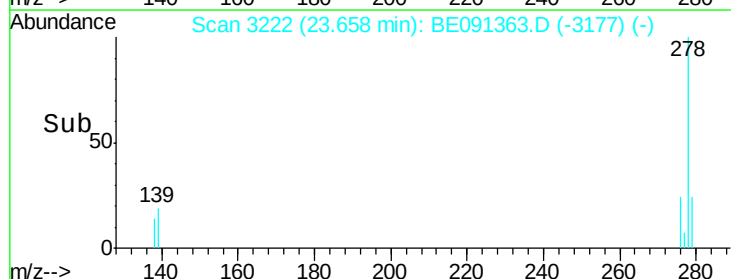
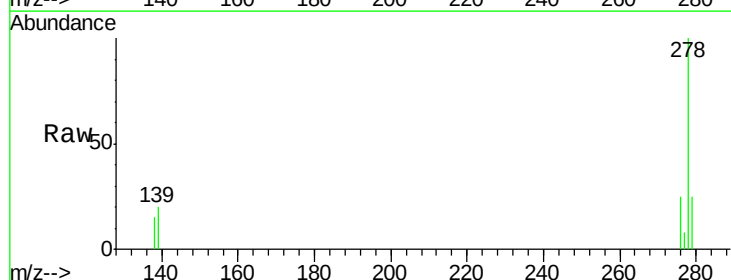
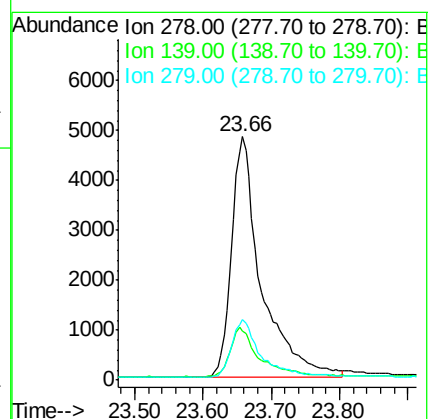
Tgt Ion:278 Resp: 14612

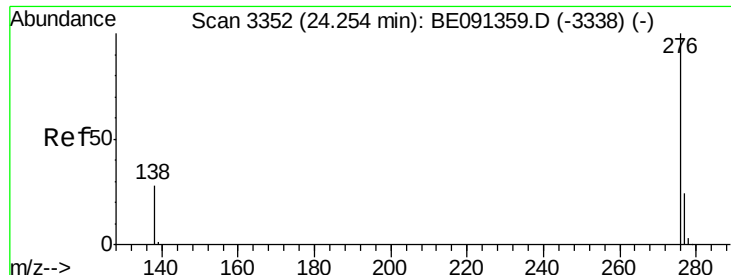
Ion Ratio Lower Upper

278 100

139 20.4 16.3 24.5

279 24.7 19.4 29.2





#29

Benzo(g,h,i)perylene

Concen: 0.95 ng

RT: 24.25 min Scan# 3352

Delta R.T. -0.00 min

Lab File: BE091363.D

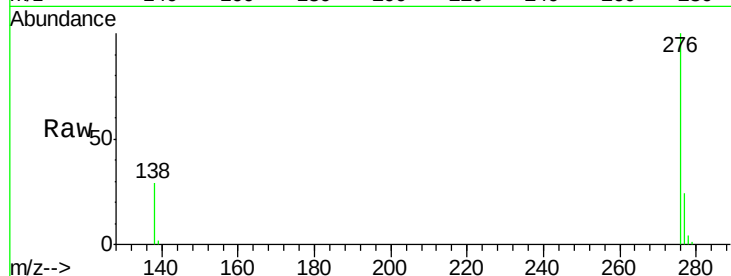
Acq: 14 Jan 2016 23:00

Instrument :

BNA_E

ClientSampleId :

ICVBE011416



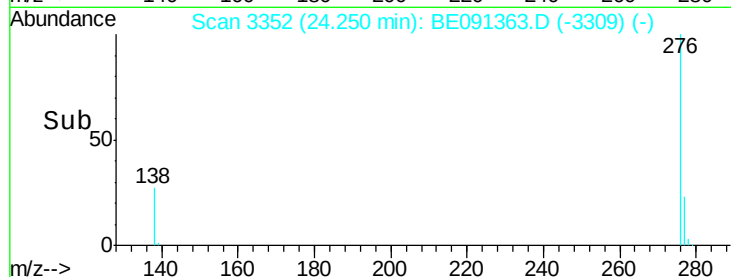
Tgt Ion: 276 Resp: 17805

Ion Ratio Lower Upper

276 100

277 24.0 19.8 29.6

138 28.5 23.3 34.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

