

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021916\
 Data File : BE091416.D
 Acq On : 19 Feb 2016 16:24
 Operator : UM/IZ
 Sample : PB88423BSD
 Misc : Use for H1498
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB88423BSD

Quant Time: Feb 19 22:38:36 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	37278	5.00	ng	-0.01
4) Naphthalene-d8	9.53	136	184672	5.00	ng	-0.02
8) Acenaphthene-d10	13.35	164	118586	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	286171	5.00	ng	-0.01
18) Chrysene-d12	20.21	240	332338	5.00	ng	0.00
24) Perylene-d12	22.09	264	330627	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 2-Fluorophenol	4.90	112	61564	6.98	ng	-0.05
3) Phenol-d6	6.51	99	86029	6.89	ng	-0.05
5) Nitrobenzene-d5	8.13	82	53069	4.37	ng	-0.04
9) 2,4,6-Tribromophenol	14.88	330	42409	7.34	ng	-0.03
10) 2-Fluorobiphenyl	11.98	172	129187	4.19	ng	-0.03
20) Terphenyl-d14	18.61	244	216580	4.41	ng	0.00

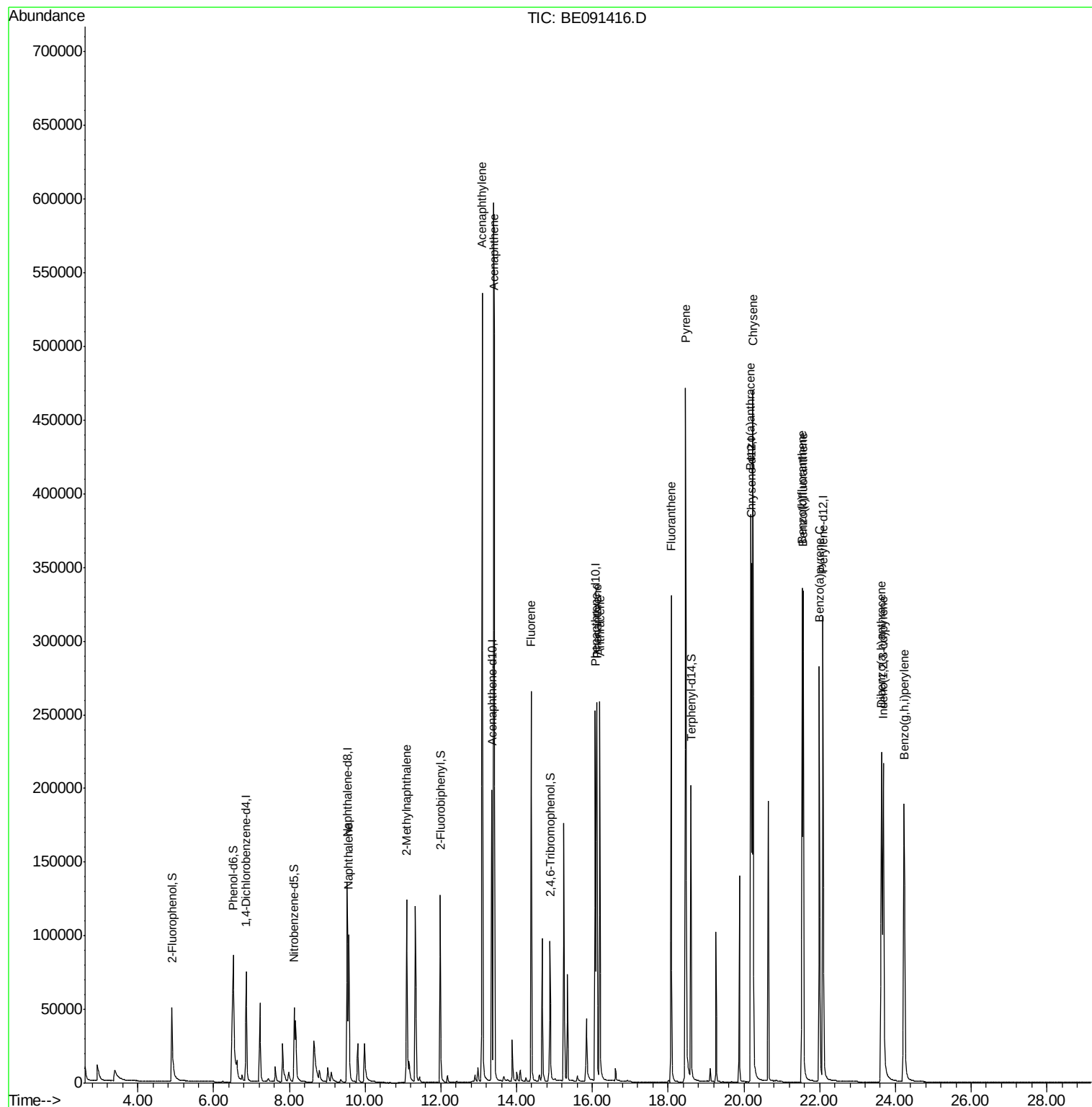
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Naphthalene	9.57	128	146184	3.51	ng	100
7) 2-Methylnaphthalene	11.10	142	100483	3.90	ng	98
11) Acenaphthylene	13.08	152	759022	3.71	ng	100
12) Acenaphthene	13.40	154	115822	3.56	ng	94
13) Fluorene	14.39	166	162419	3.86	ng	100
15) Phenanthrene	16.12	178	282699	3.76	ng	99
16) Anthracene	16.20	178	281723	4.47	ng	100
17) Fluoranthene	18.08	202	311087	3.97	ng	99
19) Pyrene	18.46	202	340298	4.73	ng	99
21) Benzo(a)anthracene	20.18	228	315498	4.28	ng	99
22) Chrysene	20.24	228	328780	3.98	ng	98
23) Indeno(1,2,3-cd)pyrene	23.68	276	316270	4.21	ng	99
25) Benzo(b)fluoranthene	21.54	252	338518	4.14	ng	99
26) Benzo(k)fluoranthene	21.57	252	336592	4.08	ng	99
27) Benzo(a)pyrene	21.99	252	315035	4.17	ng	100
28) Dibenzo(a,h)anthracene	23.63	278	300211	4.03	ng	100
29) Benzo(a,h,i)perylene	24.23	276	322135	3.95	ng	98

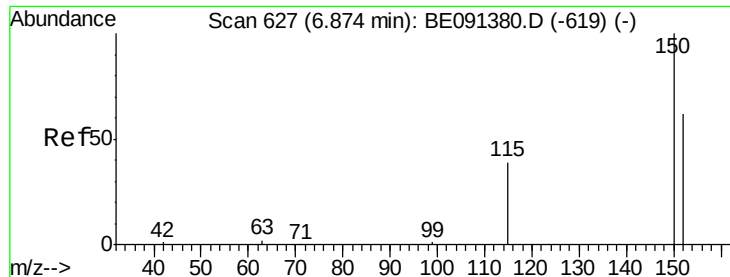
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021916\
Data File : BE091416.D
Acq On : 19 Feb 2016 16:24
Operator : UM/IZ
Sample : PB88423BSD
Misc : Use for H1498
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB88423BSD

Quant Time: Feb 19 22:38:36 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 03 00:27:53 2016
Response via : Initial Calibration



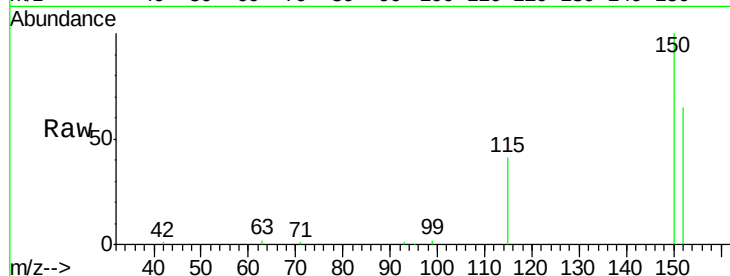


#1

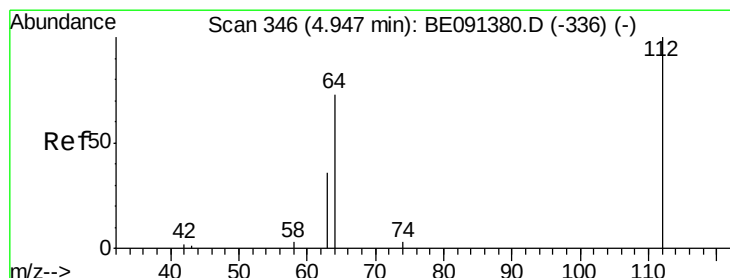
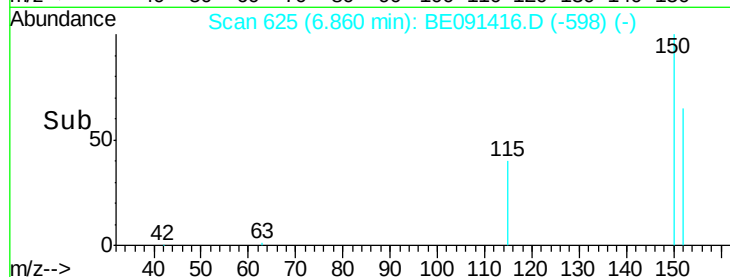
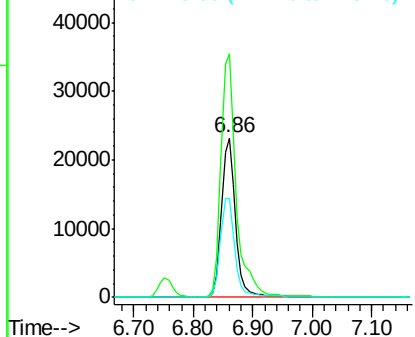
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.86 min Scan# 625
Delta R.T. -0.01 min
Lab File: BE091416.D
Acq: 19 Feb 2016 16:24

Instrument :
BNA_E
ClientSampleId :
PB88423BSD

Tot Ion:152 Resp: 37278
Ion Ratio Lower Upper
152 100
150 152.8 128.9 193.3
115 62.0 50.9 76.3



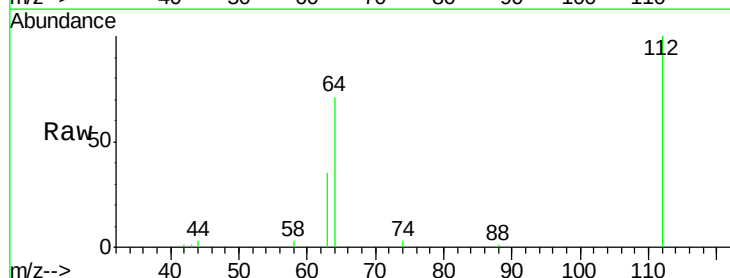
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



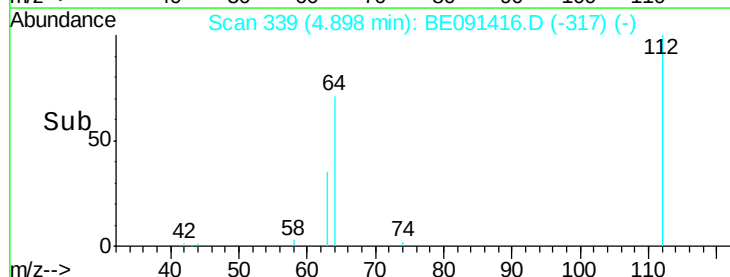
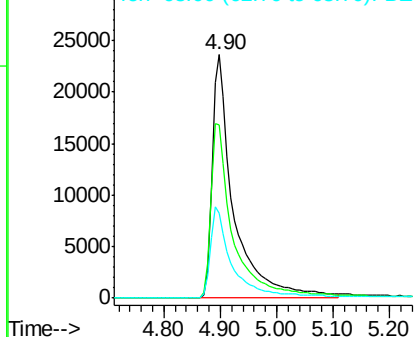
#2

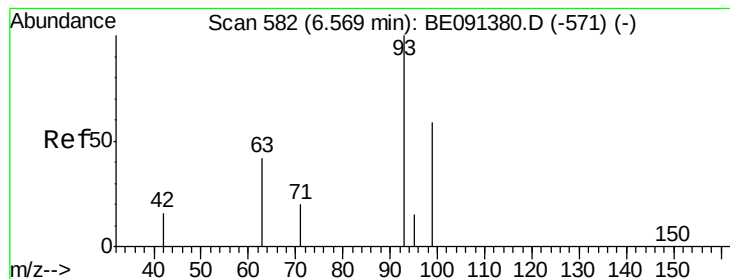
2-Fluorophenol
Concen: 6.98 ng
RT: 4.90 min Scan# 339
Delta R.T. -0.05 min
Lab File: BE091416.D
Acq: 19 Feb 2016 16:24

Tgt Ion:112 Resp: 61564
Ion Ratio Lower Upper
112 100
64 74.1 60.5 90.7
63 37.5 29.8 44.8



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: 6.89 ng

RT: 6.51 min Scan# 574

Delta R.T. -0.05 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

Instrument :

BNA_E

ClientSampleId :

PB88423BSD

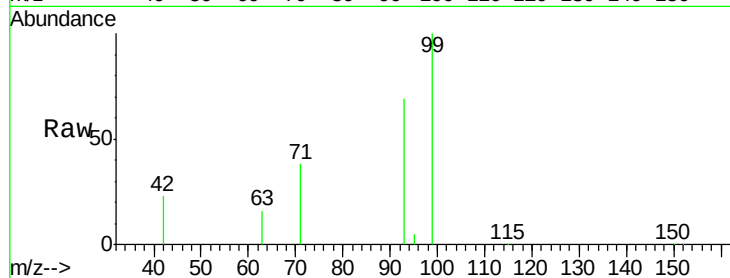
Tot Ion: 99 Resp: 86029

Ion Ratio Lower Upper

99 100

42 21.1 13.3 19.9#

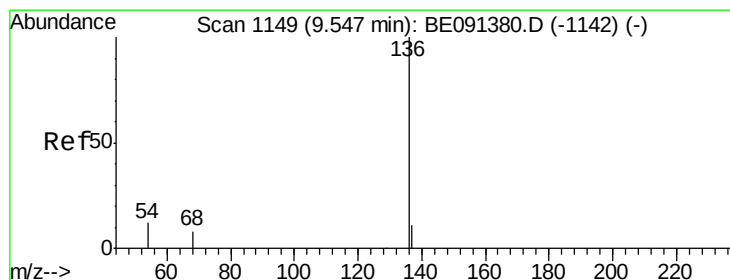
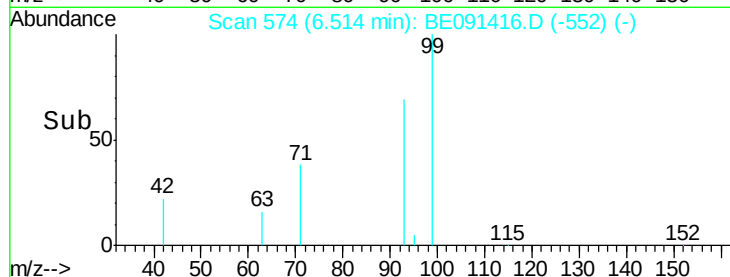
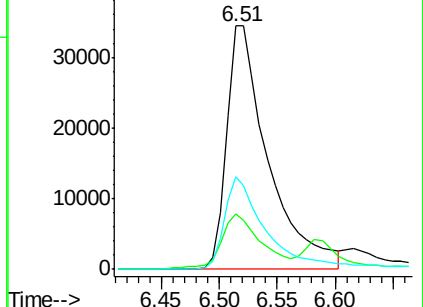
71 39.3 25.6 38.4#



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: 9.53 min Scan# 1147

Delta R.T. -0.02 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

Tgt Ion: 136 Resp: 184672

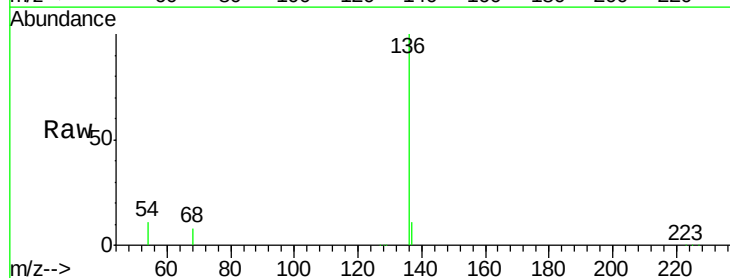
Ion Ratio Lower Upper

136 100

137 11.4 8.7 13.1

54 10.9 9.3 13.9

68 7.6 6.7 10.1

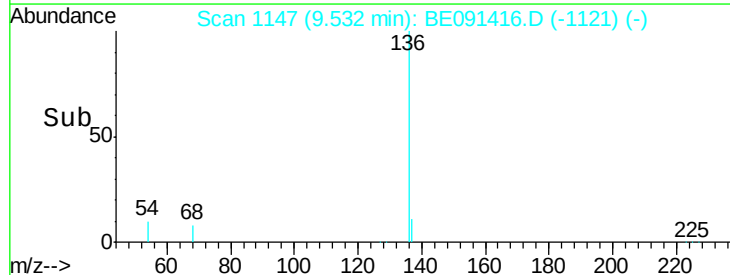
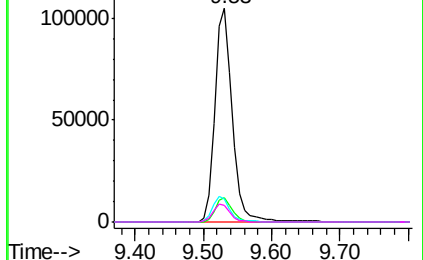


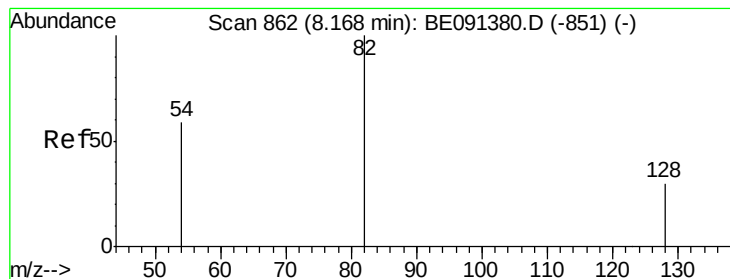
Abundance Ion 136.00 (135.70 to 136.70): E

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: 4.37 ng

RT: 8.13 min Scan# 853

Delta R.T. -0.04 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

Instrument :

BNA_E

ClientSampleId :

PB88423BSD

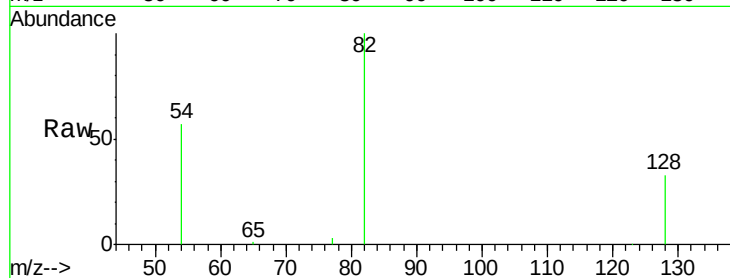
Tot Ion: 82 Resp: 53069

Ion Ratio Lower Upper

82 100

128 32.7 25.0 37.4

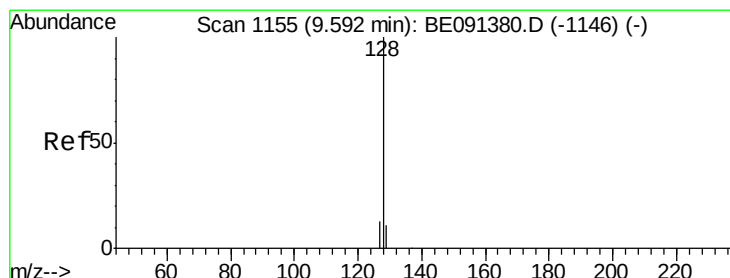
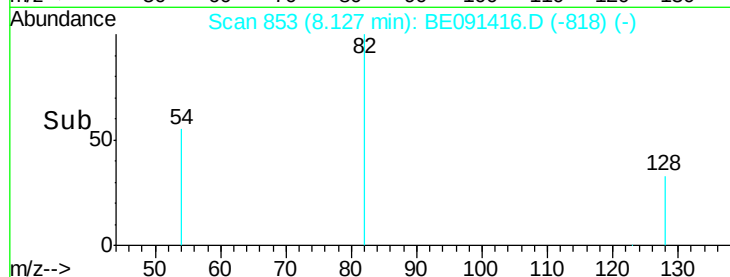
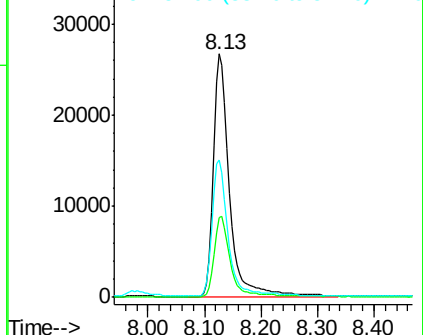
54 56.6 48.1 72.1



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: 3.51 ng

RT: 9.57 min Scan# 1152

Delta R.T. -0.02 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

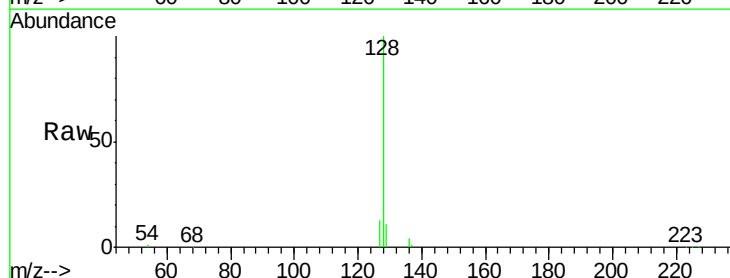
Tgt Ion: 128 Resp: 146184

Ion Ratio Lower Upper

128 100

129 11.0 9.1 13.7

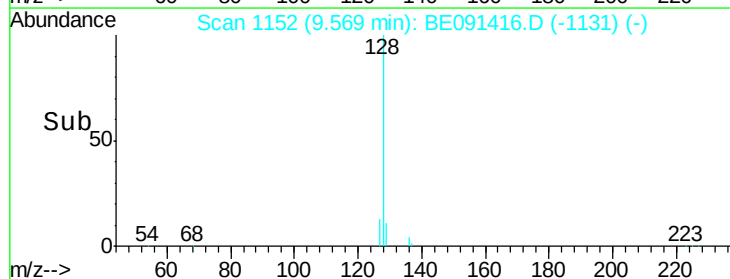
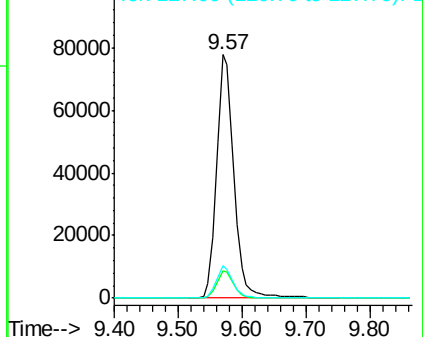
127 13.1 10.5 15.7

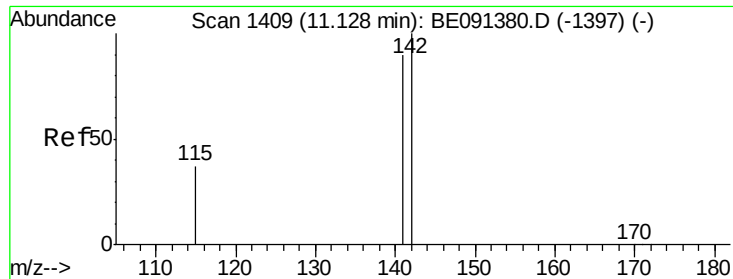


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 3.90 ng

RT: 11.10 min Scan# 1402

Delta R.T. -0.03 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

Instrument :

BNA_E

ClientSampleId :

PB88423BSD

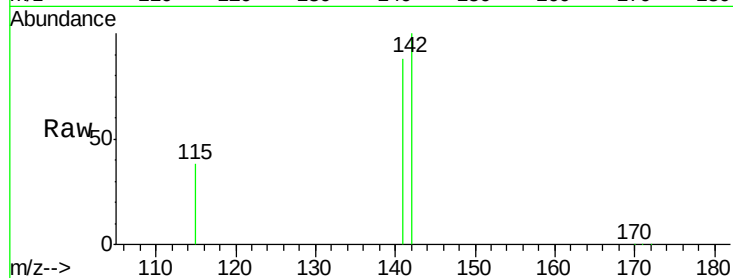
Tot Ion:142 Resp: 100483

Ion Ratio Lower Upper

142 100

141 88.4 72.3 108.5

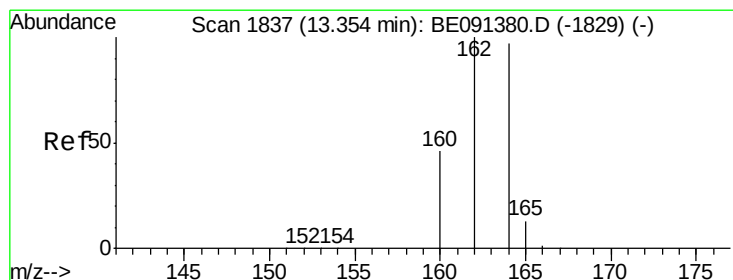
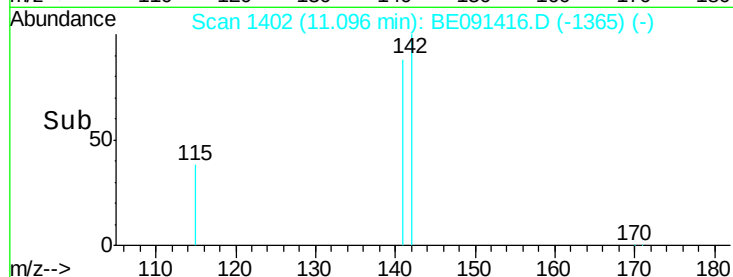
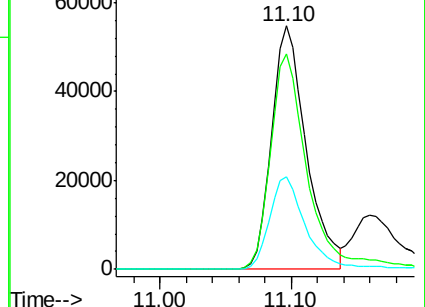
115 38.3 30.5 45.7



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: 13.35 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

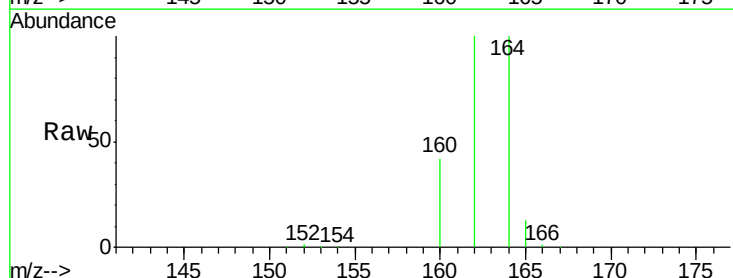
Tgt Ion:164 Resp: 118586

Ion Ratio Lower Upper

164 100

162 100.1 82.2 123.2

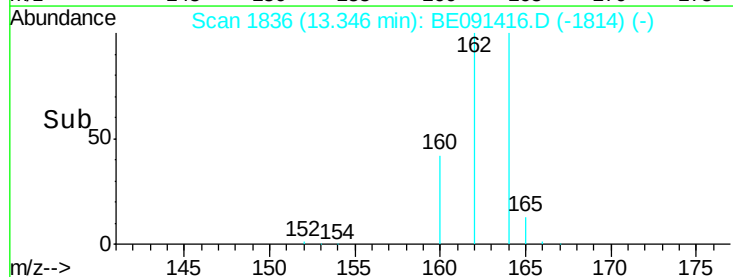
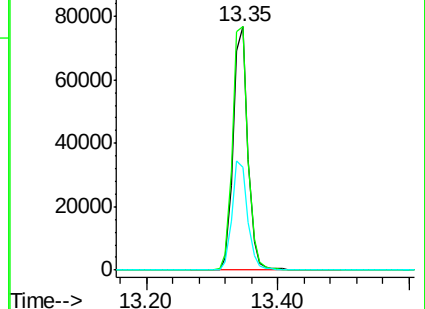
160 42.5 37.8 56.8

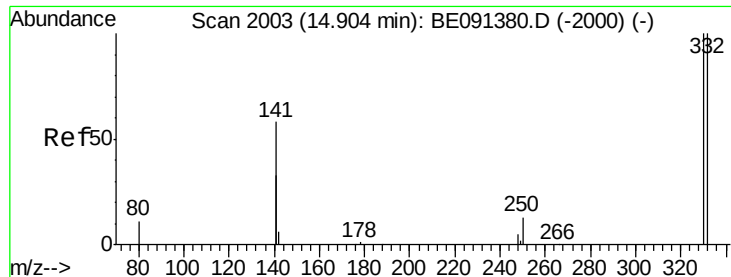


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

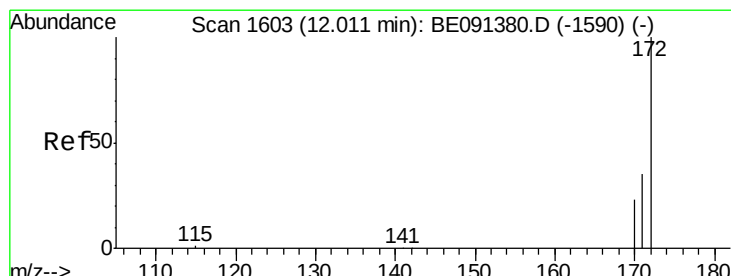
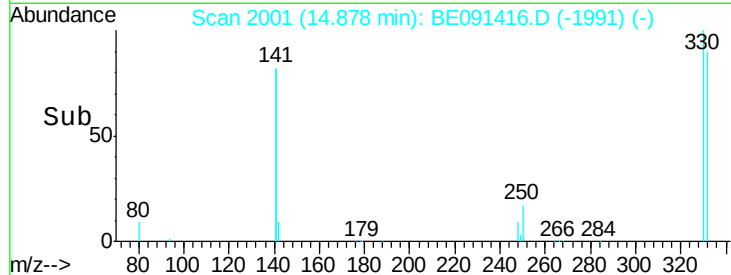
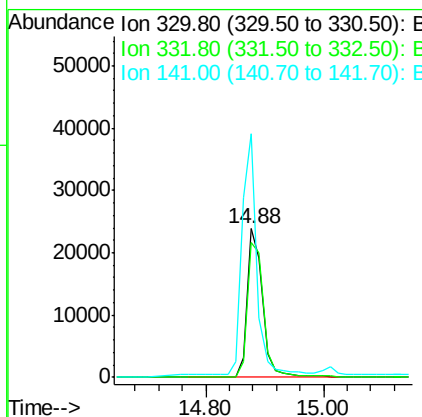
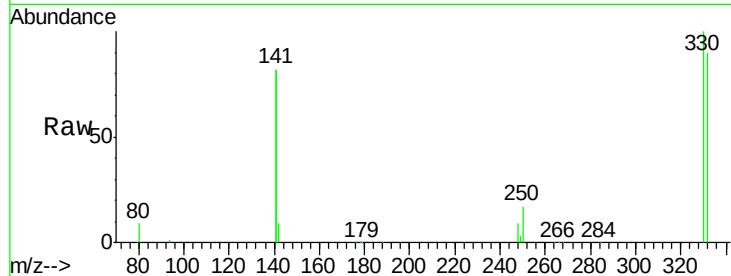




#9
 2,4,6-Tribromophenol
 Concen: 7.34 ng
 RT: 14.88 min Scan# 2001
 Delta R.T. -0.03 min
 Lab File: BE091416.D
 Acq: 19 Feb 2016 16:24

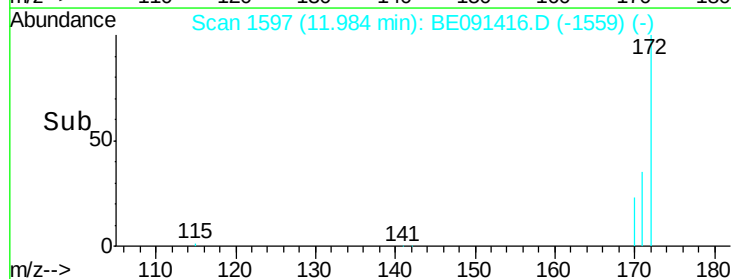
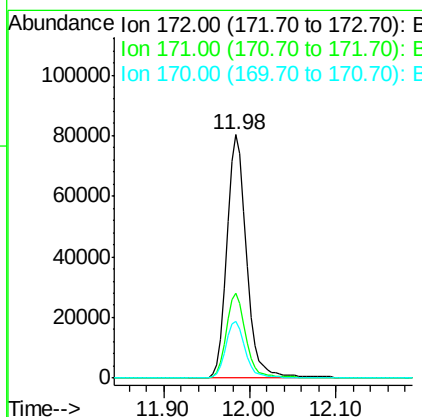
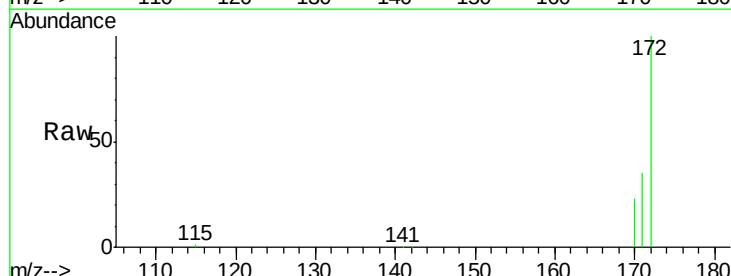
Instrument :
 BNA_E
 ClientSampleId :
 PB88423BSD

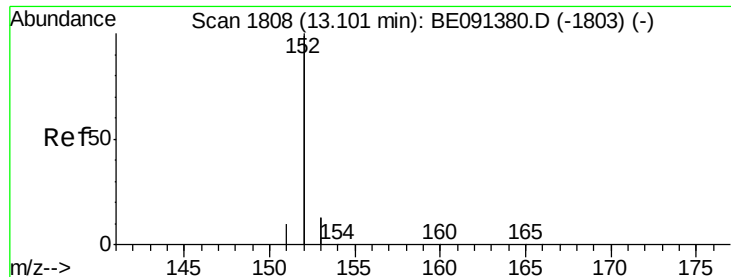
Tot Ion:330 Resp: 42409
 Ion Ratio Lower Upper
 330 100
 332 96.2 78.8 118.2
 141 156.8 105.1 157.7



#10
 2-Fluorobiphenyl
 Concen: 4.19 ng
 RT: 11.98 min Scan# 1597
 Delta R.T. -0.03 min
 Lab File: BE091416.D
 Acq: 19 Feb 2016 16:24

Tgt Ion:172 Resp: 129187
 Ion Ratio Lower Upper
 172 100
 171 34.8 27.8 41.8
 170 23.4 18.6 28.0





#11

Acenaphthylene

Concen: 3.71 ng

RT: 13.08 min Scan# 1806

Delta R.T. -0.02 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

Instrument :

BNA_E

ClientSampleId :

PB88423BSD

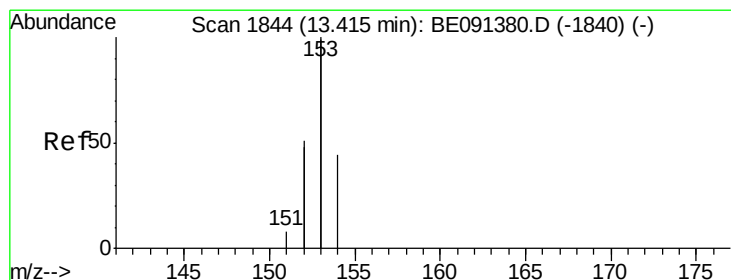
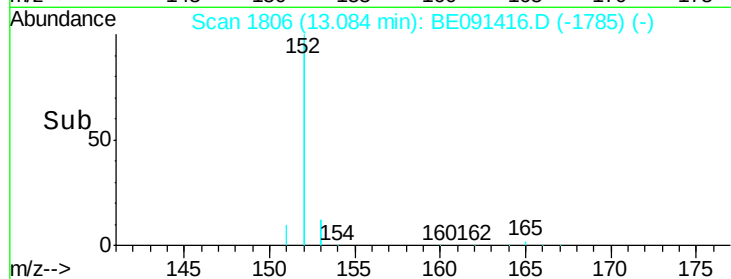
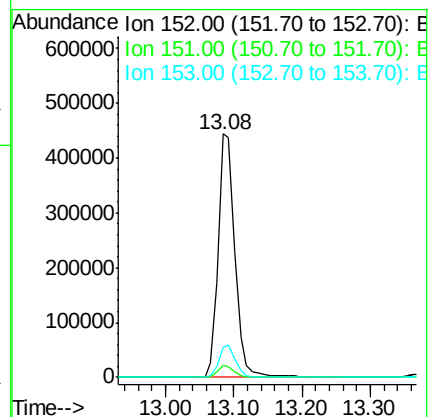
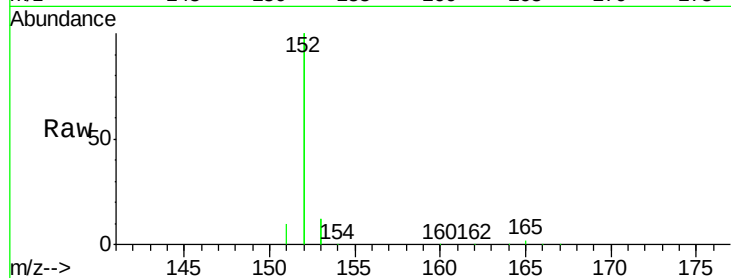
Tot Ion:152 Resp: 759022

Ion Ratio Lower Upper

152 100

151 4.9 3.8 5.8

153 13.0 10.2 15.4



#12

Acenaphthene

Concen: 3.56 ng

RT: 13.40 min Scan# 1842

Delta R.T. -0.02 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

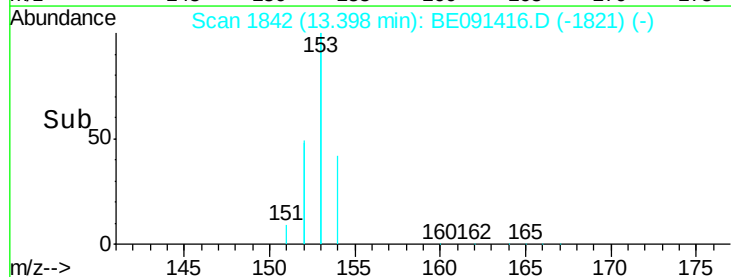
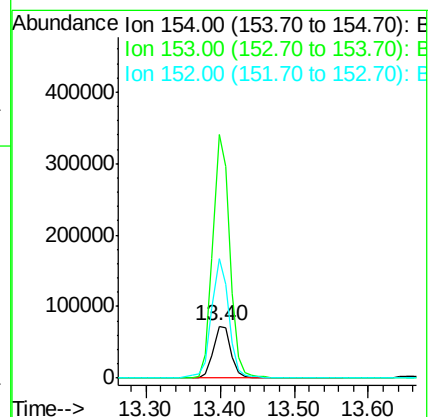
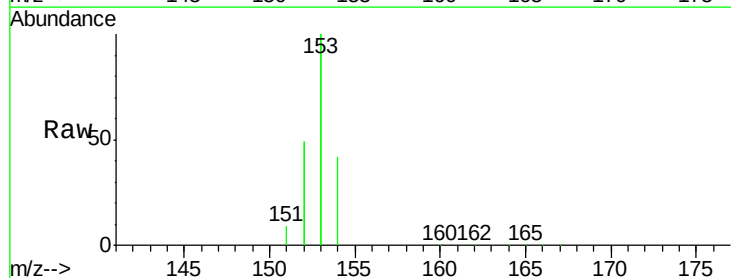
Tgt Ion:154 Resp: 115822

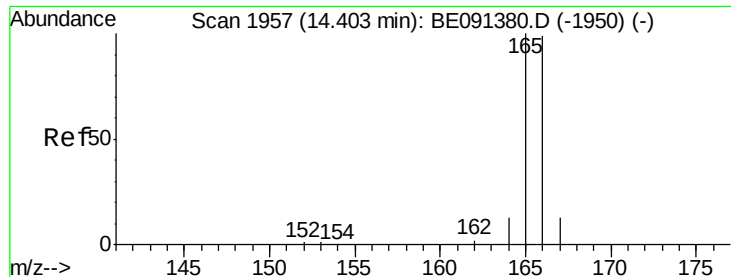
Ion Ratio Lower Upper

154 100

153 455.2 369.8 554.8

152 223.8 194.4 291.6





#13

Fluorene

Concen: 3.86 ng

RT: 14.39 min Scan# 1955

Delta R.T. -0.02 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

Instrument :

BNA_E

ClientSampleId :

PB88423BSD

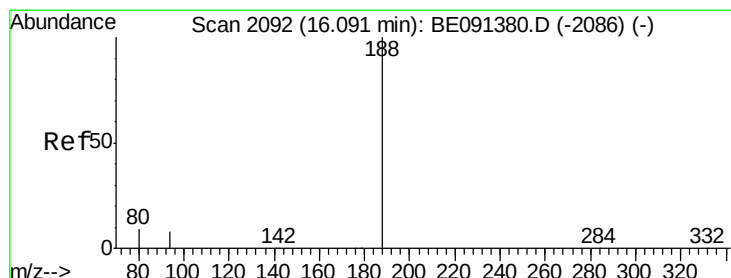
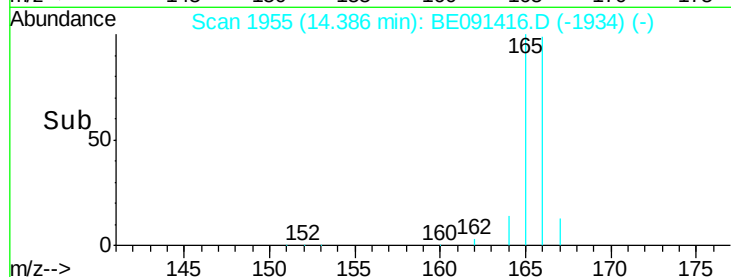
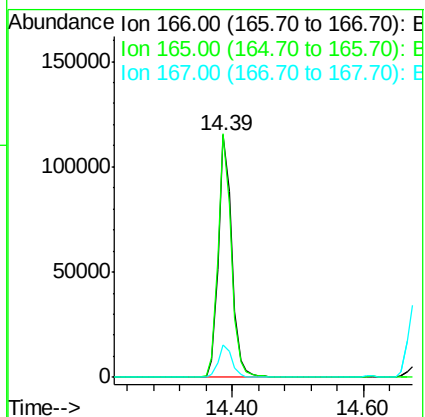
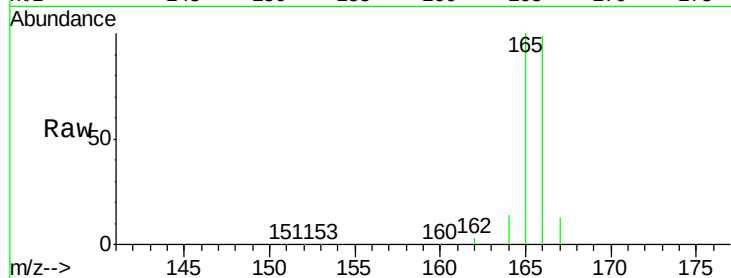
Tot Ion:166 Resp: 162419

Ion Ratio Lower Upper

166 100

165 99.1 79.3 118.9

167 13.5 10.6 16.0



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2091

Delta R.T. -0.01 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

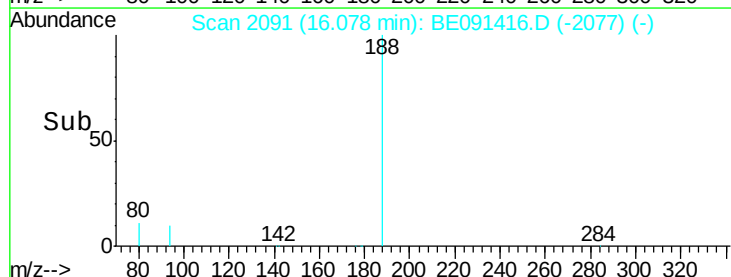
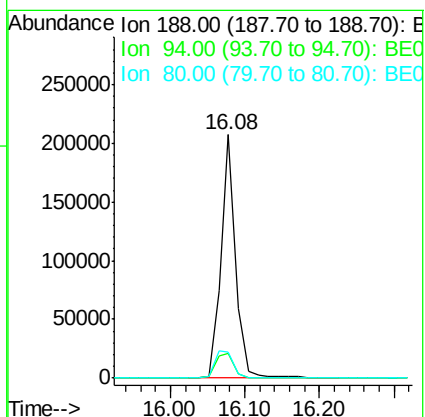
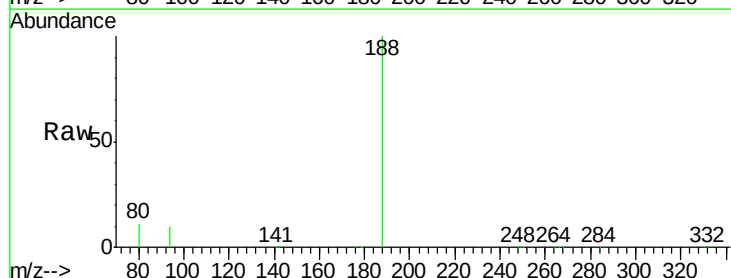
Tgt Ion:188 Resp: 286171

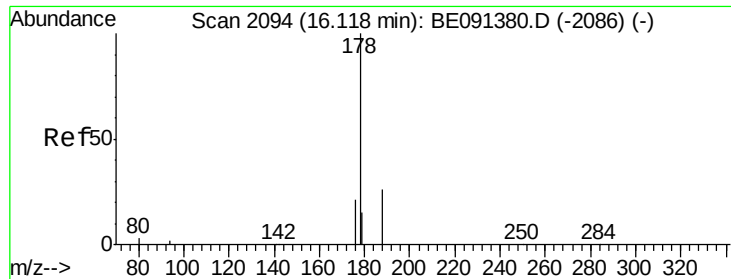
Ion Ratio Lower Upper

188 100

94 10.0 6.6 10.0#

80 10.7 7.0 10.6#





#15

Phenanthrene

Concen: 3.76 ng

RT: 16.12 min Scan# 2094

Delta R.T. -0.00 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

Instrument :

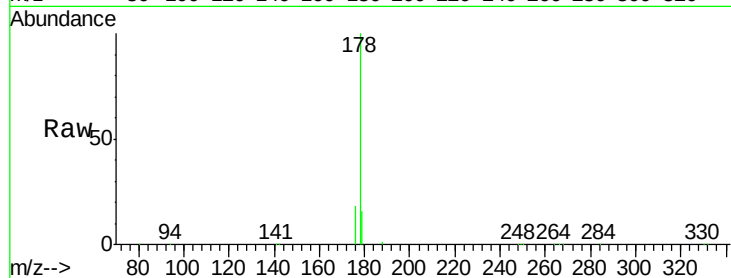
BNA_E

ClientSampleId :

PB88423BSD

Tot Ion:178 Resp: 282699

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.4	12.7	19.1

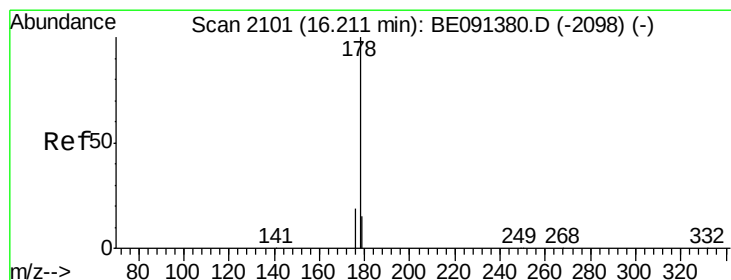
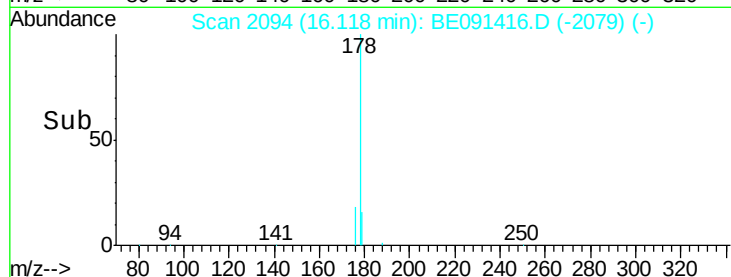
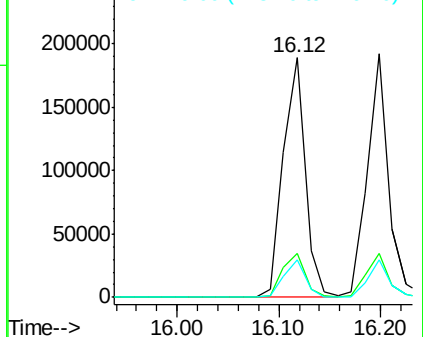


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#16

Anthracene

Concen: 4.47 ng

RT: 16.20 min Scan# 2100

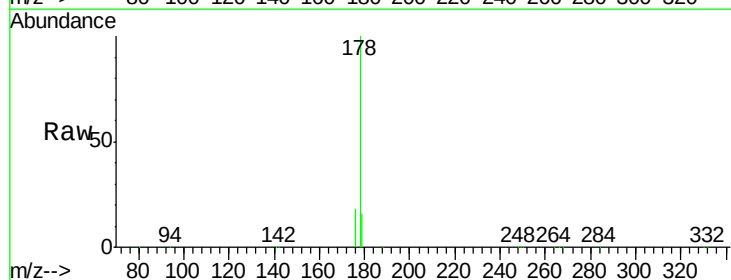
Delta R.T. -0.01 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

Tgt Ion:178 Resp: 281723

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.8	22.2
179	15.5	12.1	18.1

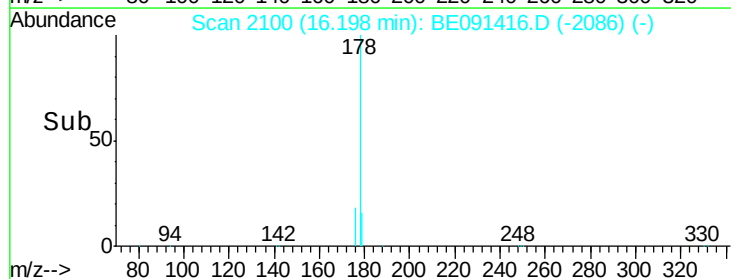
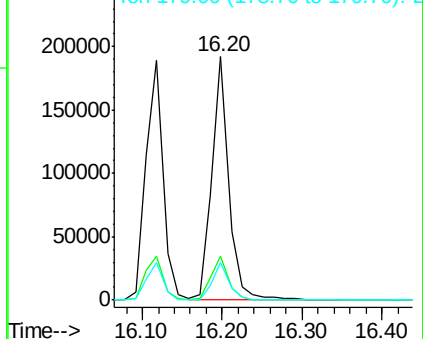


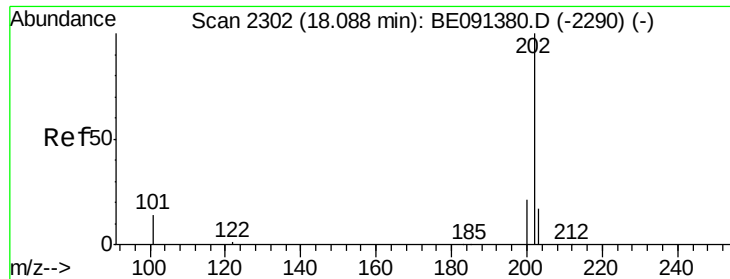
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

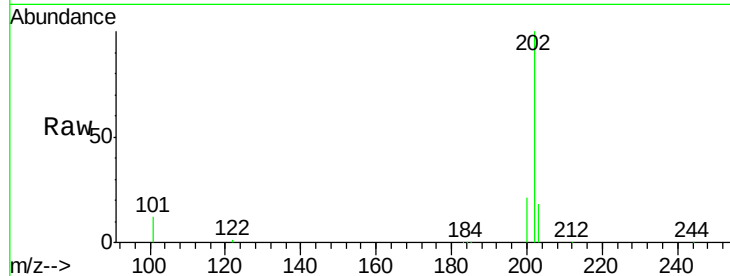




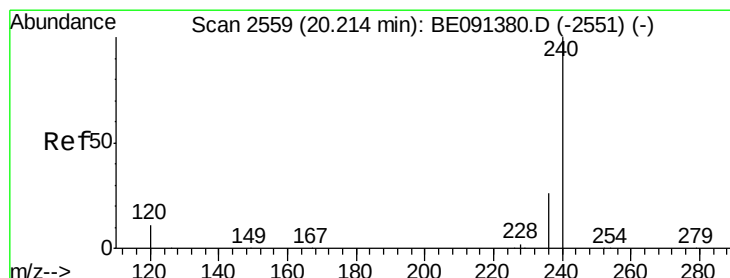
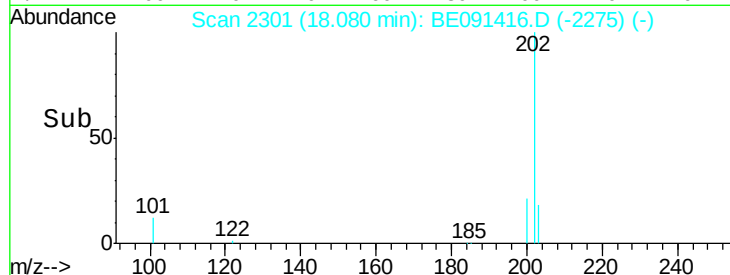
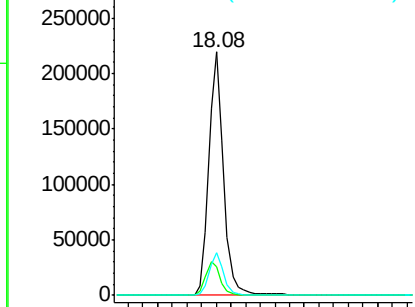
#17
 Fluoranthene
 Concen: 3.97 ng
 RT: 18.08 min Scan# 2301
 Delta R.T. -0.01 min
 Lab File: BE091416.D
 Acq: 19 Feb 2016 16:24

Instrument :
 BNA_E
 ClientSampleId :
 PB88423BSD

Tot Ion	Ratio	Lower	Upper
202	100		
101	14.0	10.5	15.7
203	17.4	13.9	20.9

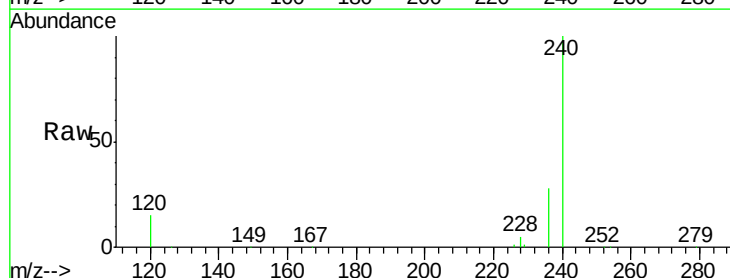


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

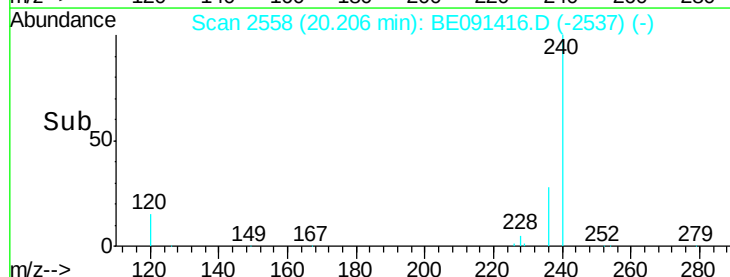
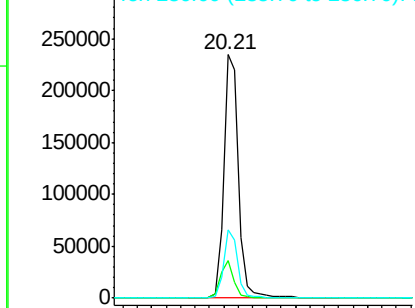


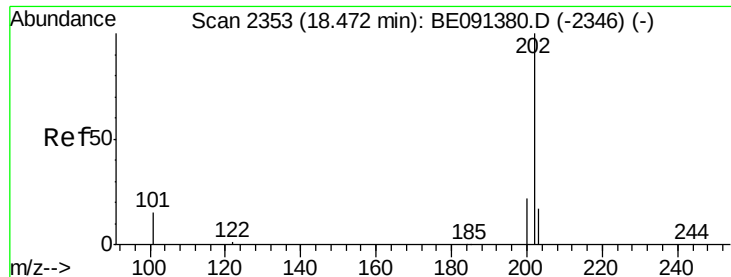
#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2558
 Delta R.T. -0.01 min
 Lab File: BE091416.D
 Acq: 19 Feb 2016 16:24

Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.4	8.9	13.3#
236	27.8	21.0	31.4



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

Pvrene

Concen: 4.73 ng

RT: 18.46 min Scan# 2352

Delta R.T. -0.01 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

Instrument :

BNA_E

ClientSampleId :

PB88423BSD

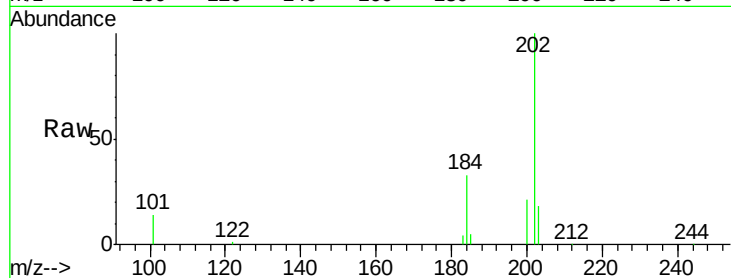
Tot Ion:202 Resp: 340298

Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

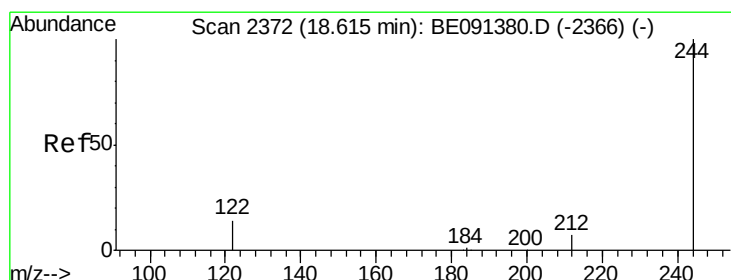
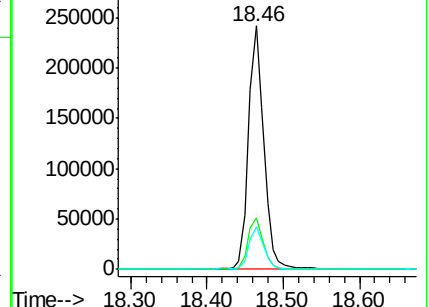
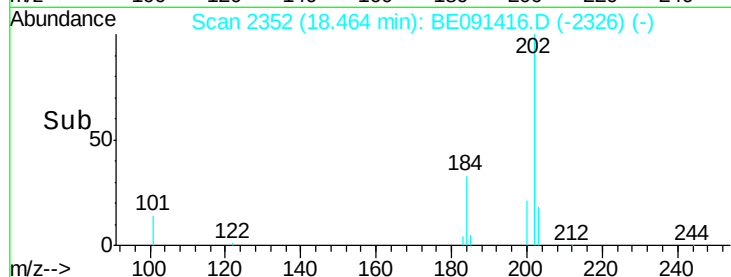
203 17.8 14.0 21.0



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: 4.41 ng

RT: 18.61 min Scan# 2371

Delta R.T. -0.01 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

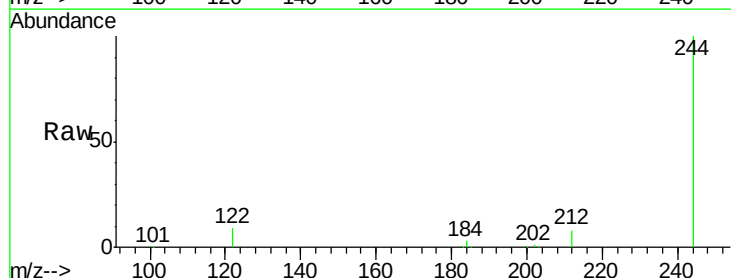
Tgt Ion:244 Resp: 216580

Ion Ratio Lower Upper

244 100

212 7.7 6.1 9.1

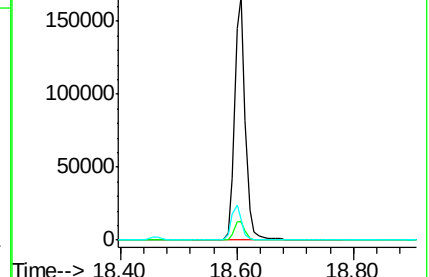
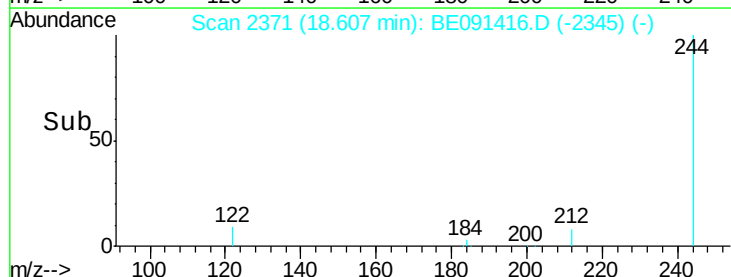
122 8.7 11.0 16.6#

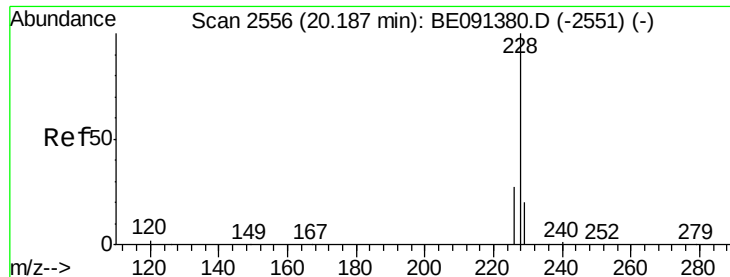


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

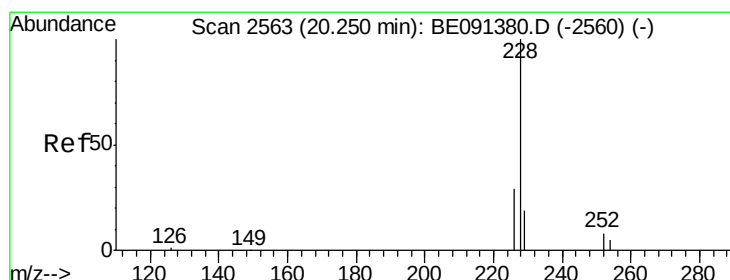
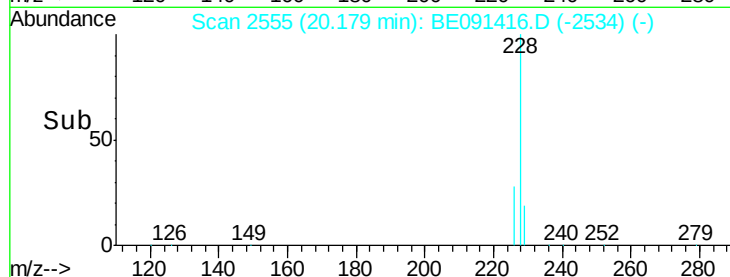
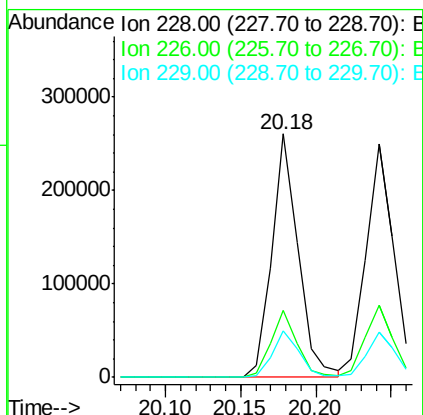
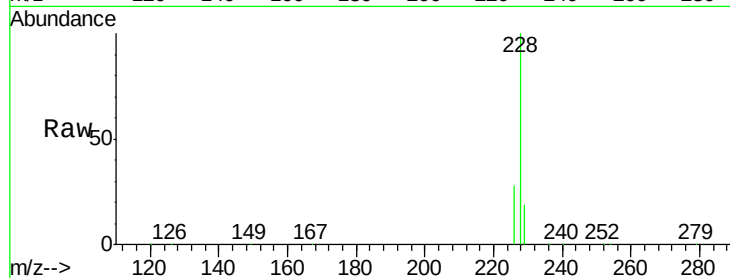




#21
Benzo(a)anthracene
Concen: 4.28 ng
RT: 20.18 min Scan# 2555
Delta R.T. -0.01 min
Lab File: BE091416.D
Acq: 19 Feb 2016 16:24

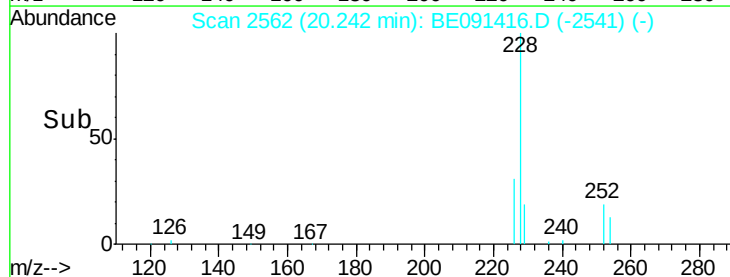
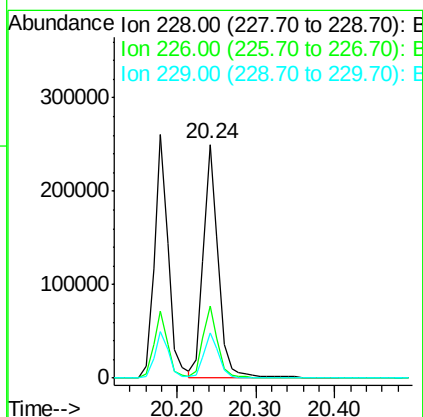
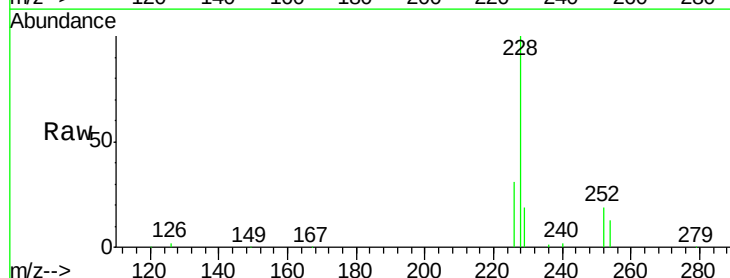
Instrument :
BNA_E
ClientSampleId :
PB88423BSD

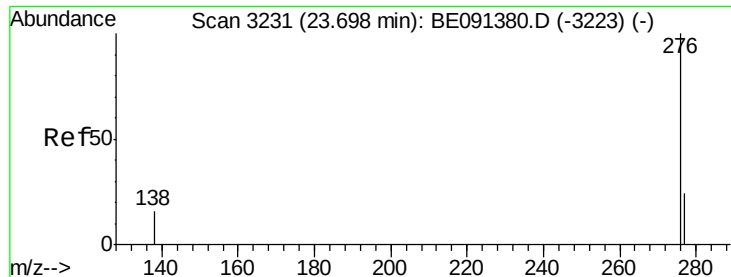
Tot Ion:228 Resp: 315498
Ion Ratio Lower Upper
228 100
226 27.7 21.7 32.5
229 19.3 16.1 24.1



#22
Chrysene
Concen: 3.98 ng
RT: 20.24 min Scan# 2562
Delta R.T. -0.01 min
Lab File: BE091416.D
Acq: 19 Feb 2016 16:24

Tgt Ion:228 Resp: 328780
Ion Ratio Lower Upper
228 100
226 30.8 23.4 35.0
229 19.4 15.7 23.5





#23

Indeno(1,2,3-cd)pyrene

Concen: 4.21 ng

RT: 23.68 min Scan# 3226

Delta R.T. -0.02 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

Instrument :

BNA_E

ClientSampleId :

PB88423BSD

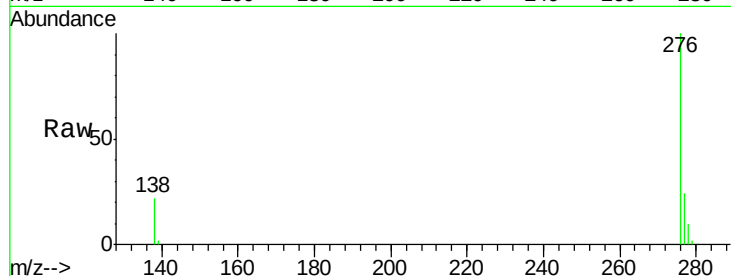
Tot Ion:276 Resp: 316270

Ion Ratio Lower Upper

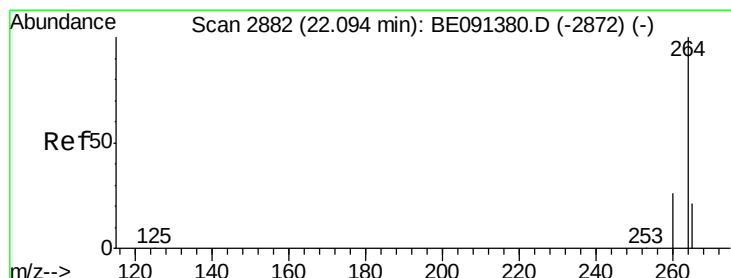
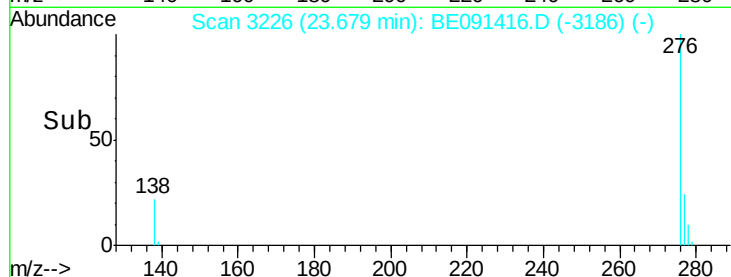
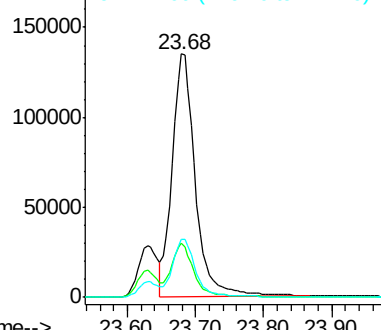
276 100

138 21.4 16.6 25.0

277 24.3 19.0 28.6



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: 22.09 min Scan# 2881

Delta R.T. -0.00 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

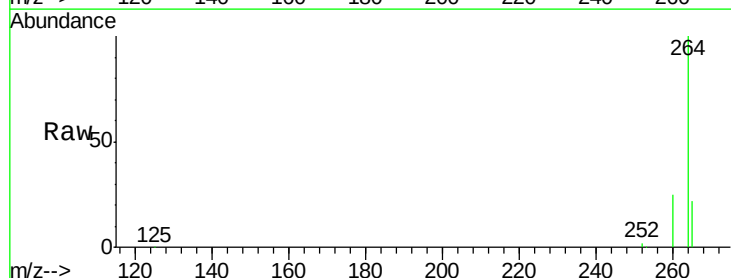
Tgt Ion:264 Resp: 330627

Ion Ratio Lower Upper

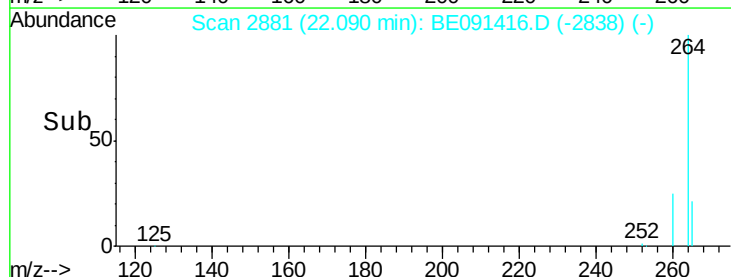
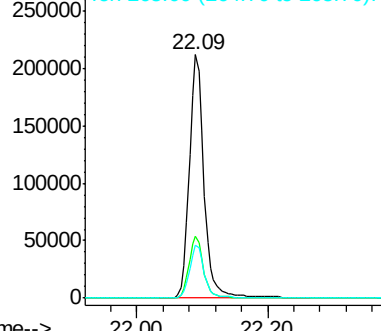
264 100

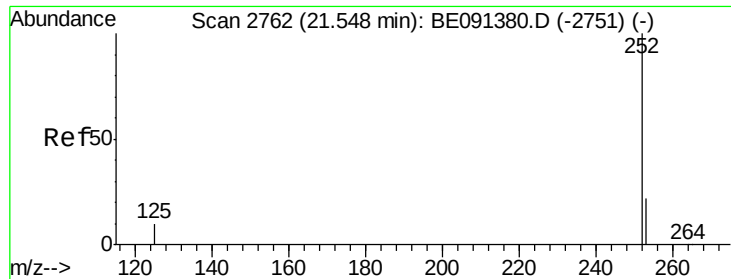
260 25.4 20.7 31.1

265 21.5 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: 4.14 ng

RT: 21.54 min Scan# 2760

Delta R.T. -0.01 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

Instrument :

BNA_E

ClientSampleId :

PB88423BSD

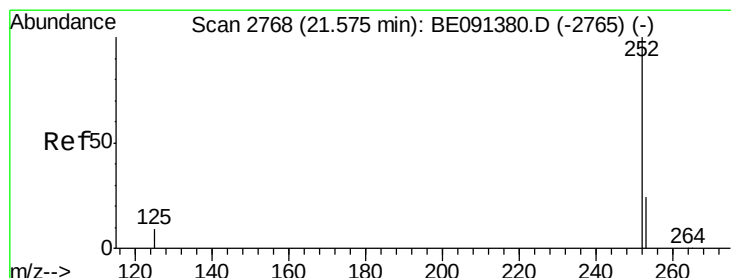
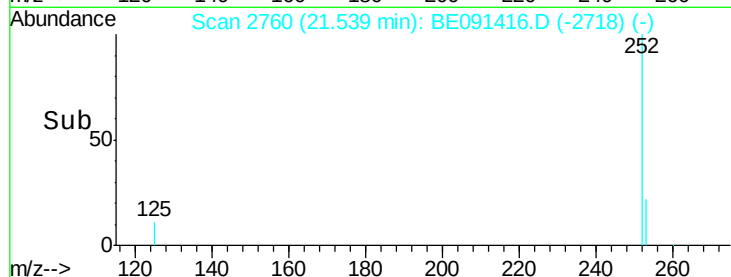
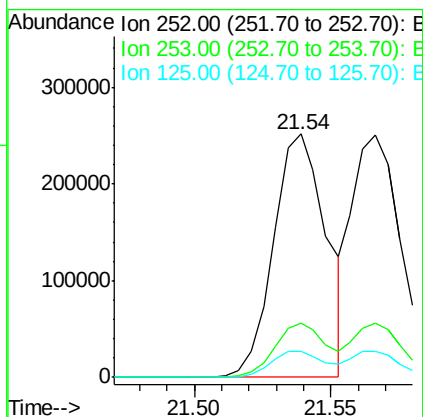
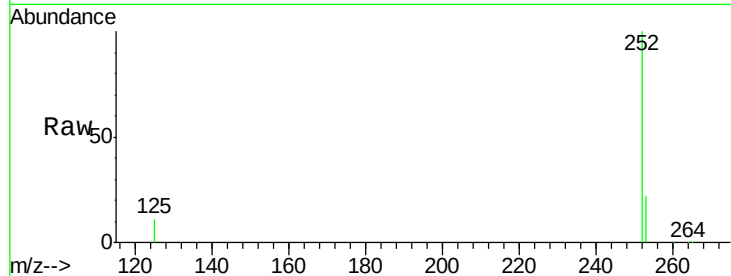
Tot Ion:252 Resp: 338518

Ion Ratio Lower Upper

252 100

253 22.4 18.2 27.2

125 10.9 8.3 12.5



#26

Benzo(k)fluoranthene

Concen: 4.08 ng

RT: 21.57 min Scan# 2766

Delta R.T. -0.01 min

Lab File: BE091416.D

Acq: 19 Feb 2016 16:24

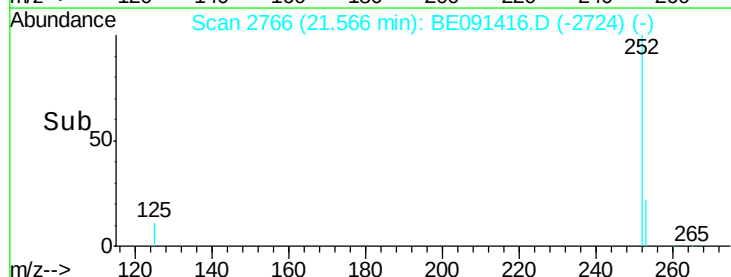
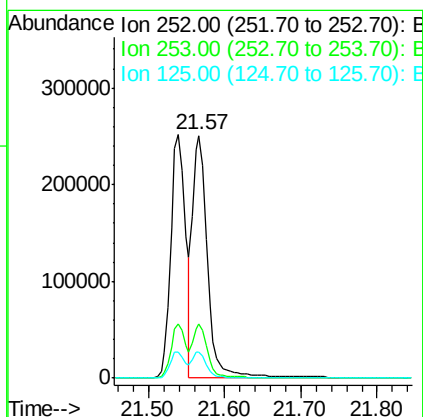
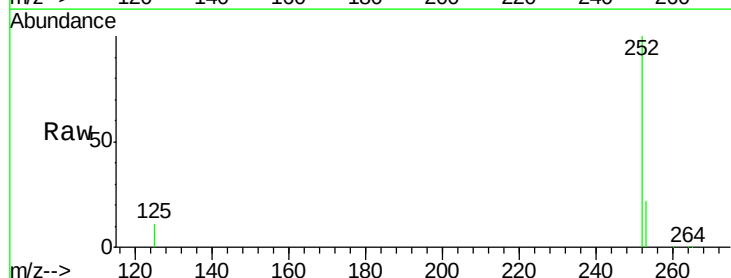
Tgt Ion:252 Resp: 336592

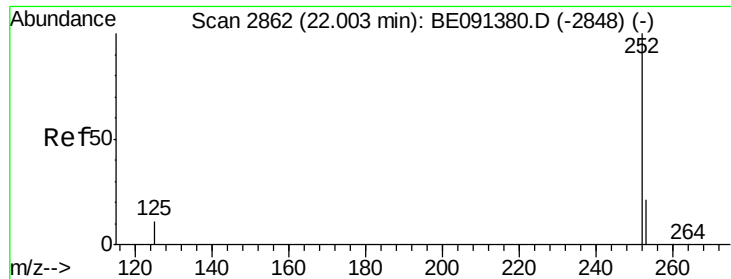
Ion Ratio Lower Upper

252 100

253 22.1 18.1 27.1

125 10.9 8.2 12.4

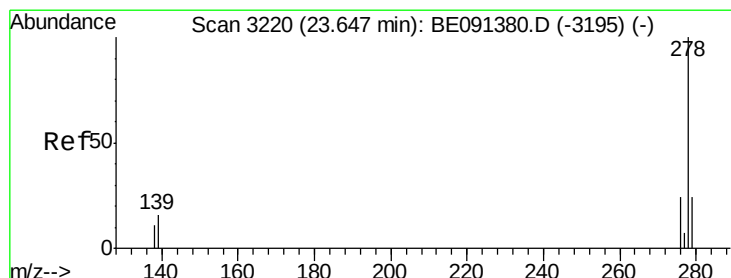
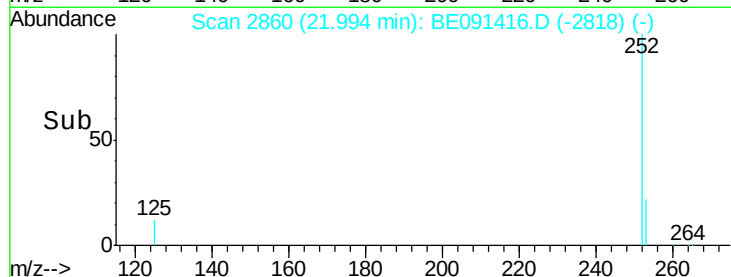
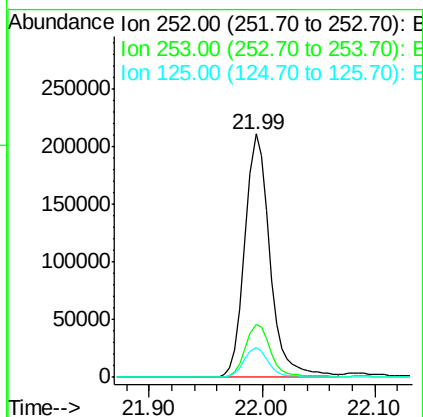
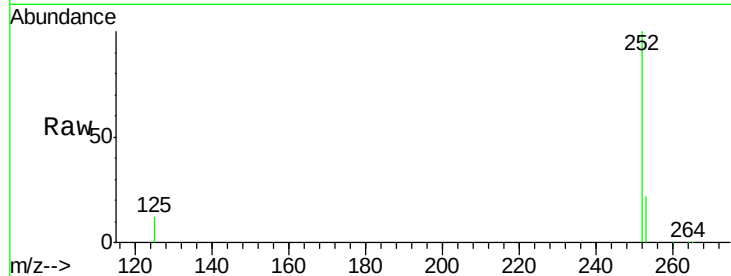




#27
Benzo(a)pyrene
Concen: 4.17 ng
RT: 21.99 min Scan# 2860
Delta R.T. -0.01 min
Lab File: BE091416.D
Acq: 19 Feb 2016 16:24

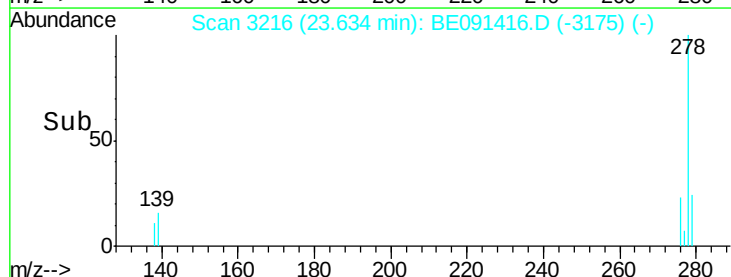
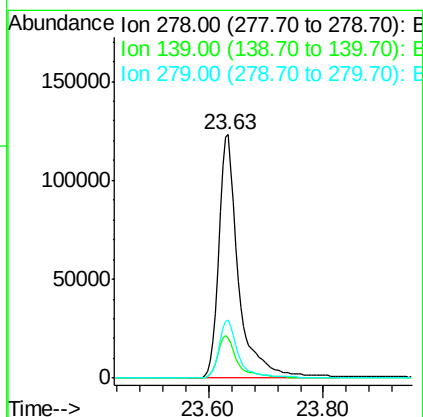
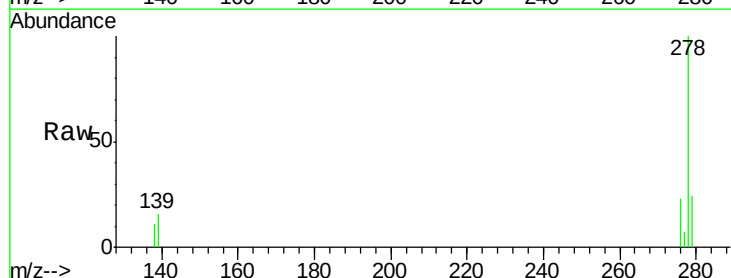
Instrument :
BNA_E
ClientSampleId :
PB88423BSD

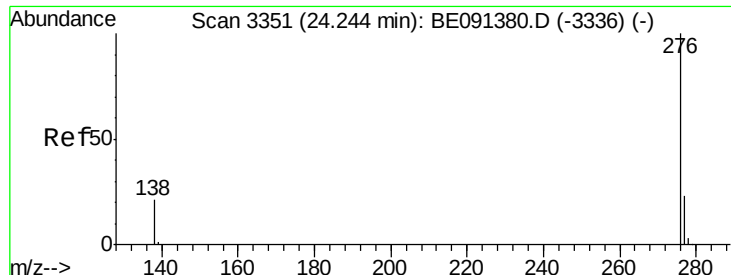
Tot Ion:252 Resp: 315035
Ion Ratio Lower Upper
252 100
253 21.9 17.5 26.3
125 12.0 9.4 14.0



#28
Dibenzo(a,h)anthracene
Concen: 4.03 ng
RT: 23.63 min Scan# 3216
Delta R.T. -0.01 min
Lab File: BE091416.D
Acq: 19 Feb 2016 16:24

Tgt Ion:278 Resp: 300211
Ion Ratio Lower Upper
278 100
139 16.2 13.0 19.4
279 23.9 19.2 28.8





#29

Benzo(a,h,i)perylene

Concen: 3.95 ng

RT: 24.23 min Scan# 3347

Delta R.T. -0.01 min

Lab File: BE091416.D

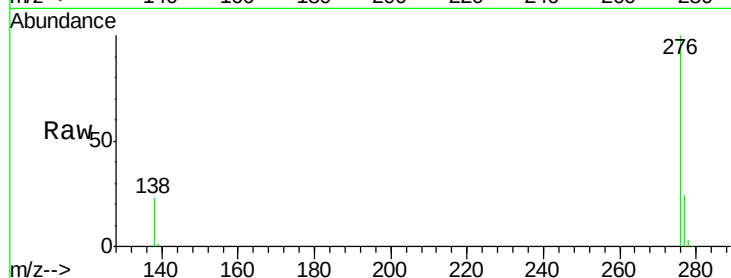
Acq: 19 Feb 2016 16:24

Instrument :

BNA_E

ClientSampleId :

PB88423BSD



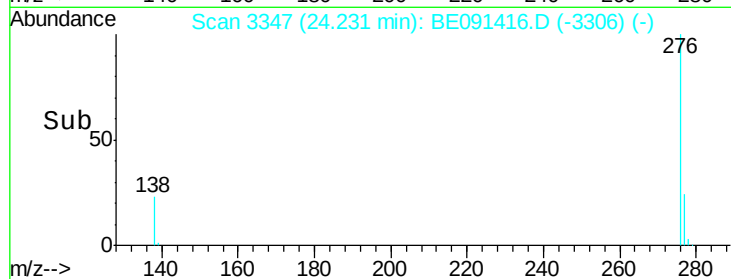
Tot Ion: 276 Resp: 322135

Ion Ratio Lower Upper

276 100

277 23.6 18.9 28.3

138 23.2 17.0 25.6



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

