

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020516\
 Data File : BE091399.D
 Acq On : 5 Feb 2016 14:38
 Operator : UM/IZ
 Sample : PB88200BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB88200BS

Quant Time: Feb 05 16:43:32 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	6.87	152	42450	5.00	ng	0.00
4) Naphthalene-d8	9.54	136	207693	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	129891	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	317838	5.00	ng	-0.01
18) Chrysene-d12	20.21	240	399790	5.00	ng	0.00
24) Perylene-d12	22.09	264	379579	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 2-Fluorophenol	4.91	112	67822	6.76	ng	-0.04
3) Phenol-d6	6.53	99	105066	7.37	ng	-0.04
5) Nitrobenzene-d5	8.14	82	52423	3.88	ng	-0.03
9) 2,4,6-Tribromophenol	14.89	330	43176	6.84	ng	-0.01
10) 2-Fluorobiphenyl	12.00	172	150396	4.45	ng	-0.01
20) Terphenyl-d14	18.61	244	251429	4.25	ng	0.00

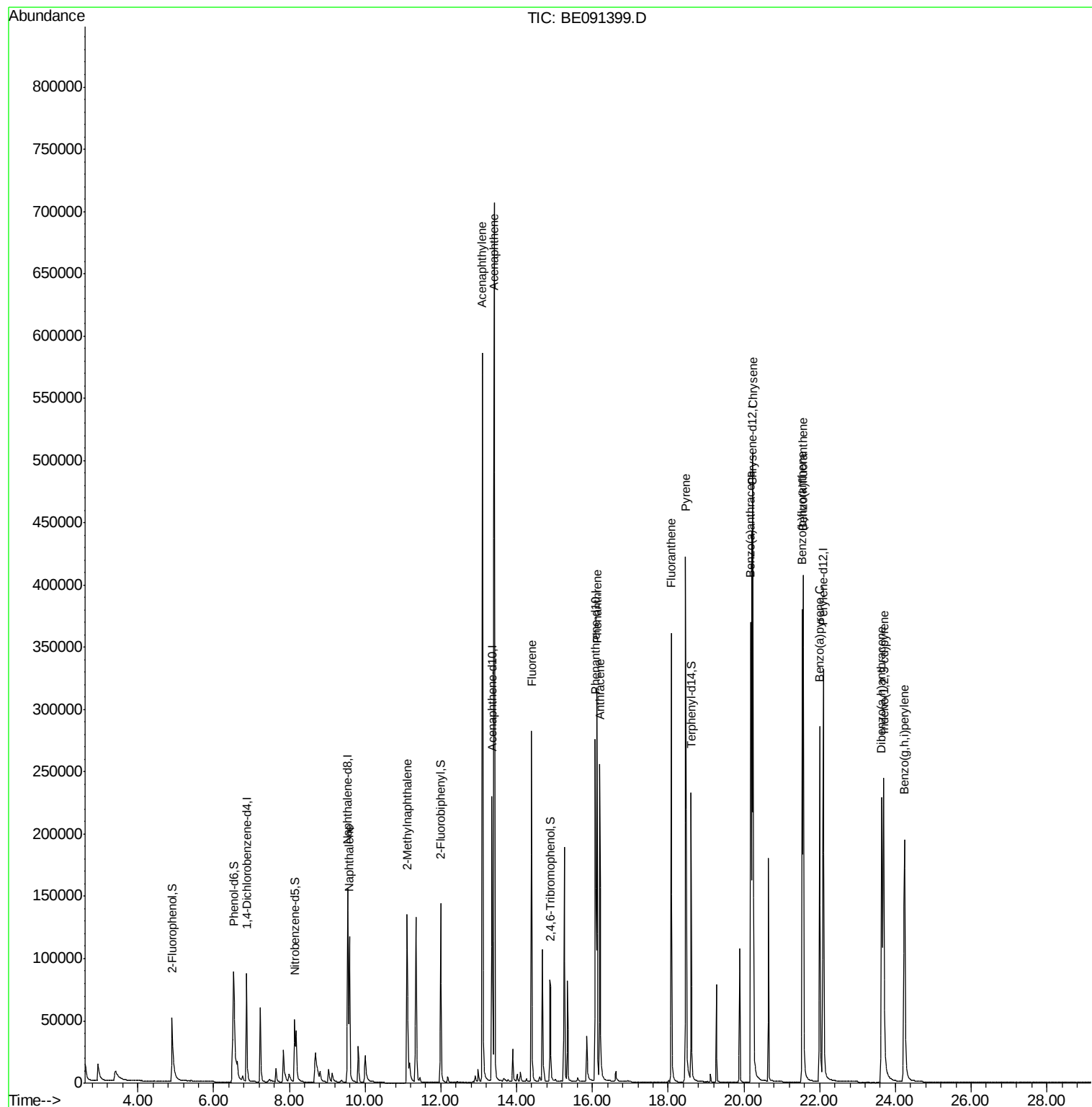
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Naphthalene	9.58	128	170359	3.64	ng	99
7) 2-Methylnaphthalene	11.11	142	114728	3.96	ng	97
11) Acenaphthylene	13.09	152	826223	3.69	ng	100
12) Acenaphthene	13.41	154	130278	3.65	ng	97
13) Fluorene	14.39	166	182731	3.97	ng	99
15) Phenanthrene	16.12	178	319440	3.83	ng	99
16) Anthracene	16.20	178	307337	4.39	ng	99
17) Fluoranthene	18.08	202	352568	4.05	ng	99
19) Pyrene	18.46	202	377555	4.36	ng	99
21) Benzo(a)anthracene	20.18	228	353693	4.00	ng	97
22) Chrysene	20.24	228	396611	3.99	ng	97
23) Indeno(1,2,3-cd)pyrene	23.69	276	354779	3.94	ng	99
25) Benzo(b)fluoranthene	21.54	252	371220	3.96	ng	98
26) Benzo(k)fluoranthene	21.57	252	398081	4.20	ng	98
27) Benzo(a)pyrene	22.00	252	340946	3.94	ng	99
28) Dibenzo(a,h)anthracene	23.64	278	317613	3.74	ng	99
29) Benzo(g,h,i)perylene	24.24	276	364919	3.90	ng	98

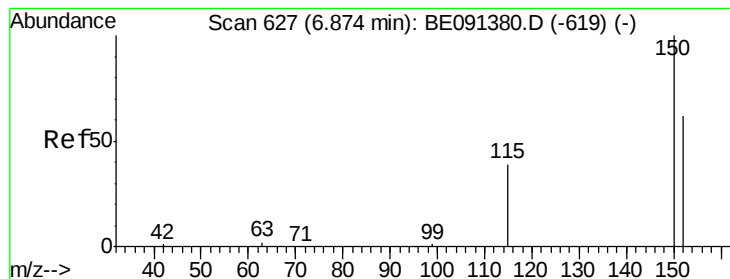
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.87 min Scan# 626

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampled :

PB88200BS

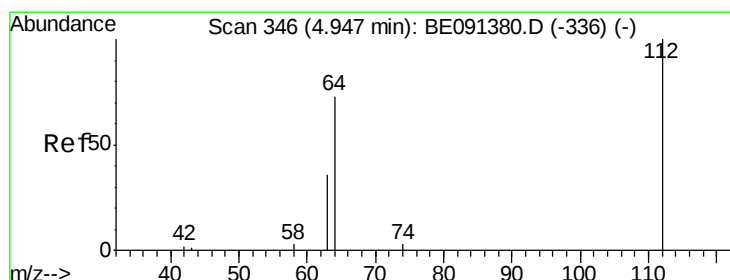
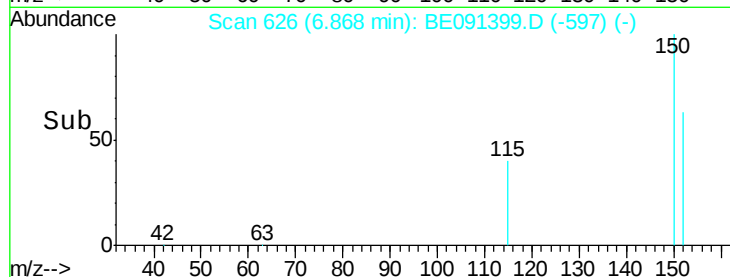
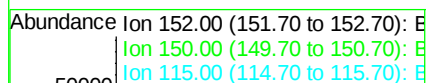
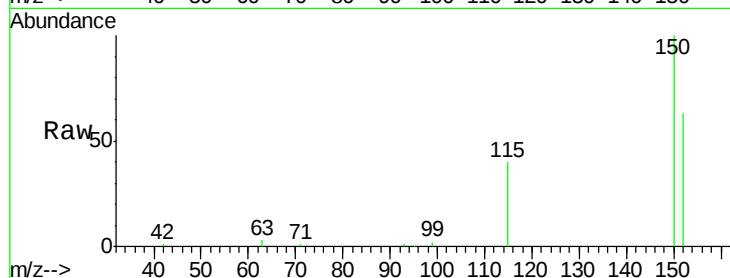
Tot Ion:152 Resp: 42450

Ion Ratio Lower Upper

152 100

150 159.0 128.9 193.3

115 64.4 50.9 76.3



#2

2-Fluorophenol

Concen: 6.76 ng

RT: 4.91 min Scan# 341

Delta R.T. -0.04 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

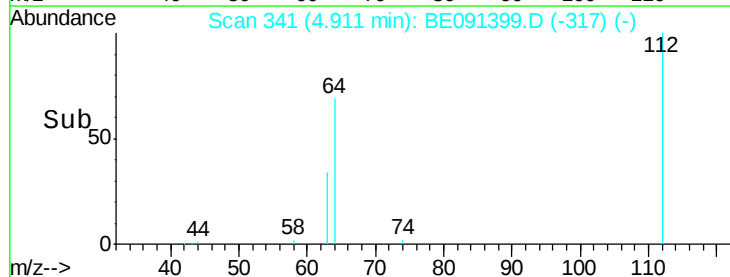
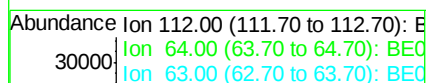
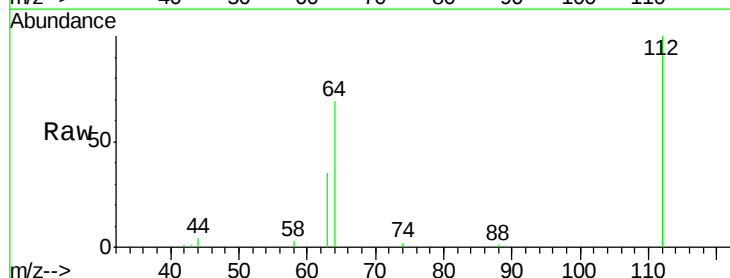
Tgt Ion:112 Resp: 67822

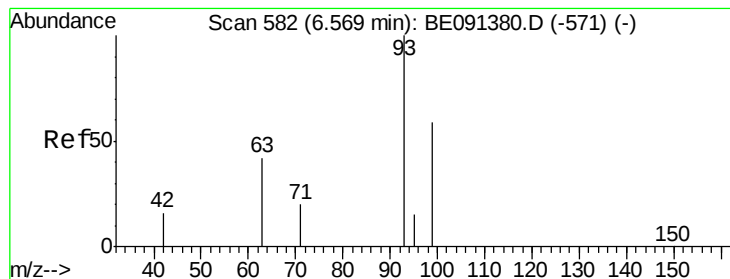
Ion Ratio Lower Upper

112 100

64 73.1 60.5 90.7

63 36.6 29.8 44.8





#3

Phenol-d6

Concen: 7.37 ng

RT: 6.53 min Scan# 576

Delta R.T. -0.04 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

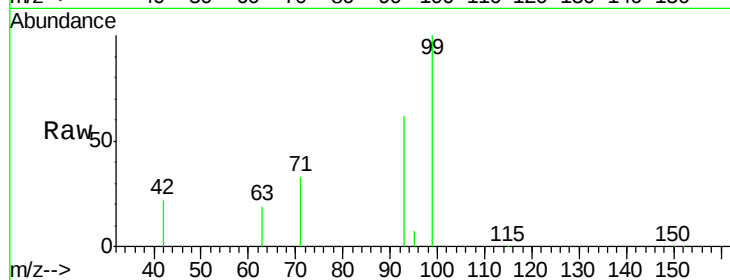
BNA_E

ClientSampleId :

PB88200BS

Tot Ion: 99 Resp: 105066

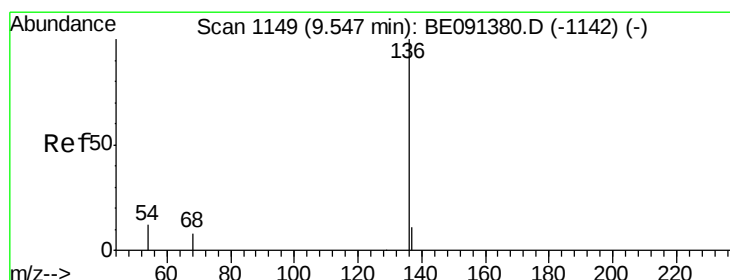
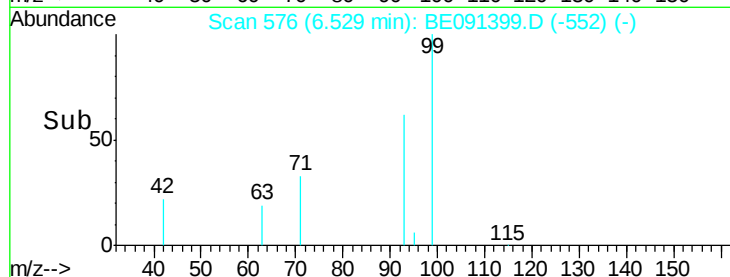
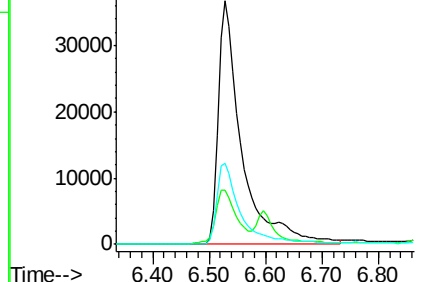
Ion	Ratio	Lower	Upper
99	100		
42	20.1	13.3	19.9#
71	33.7	25.6	38.4



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: 9.54 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Tgt Ion: 136 Resp: 207693

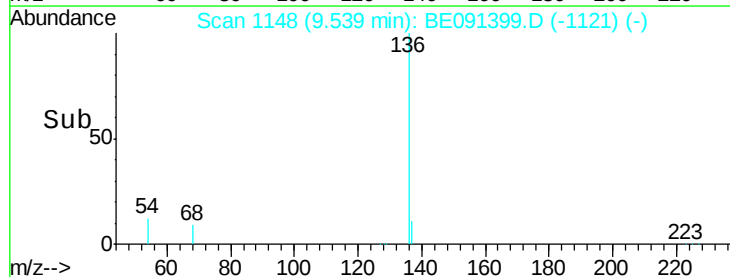
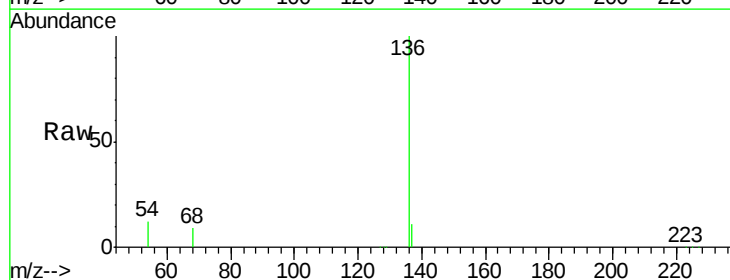
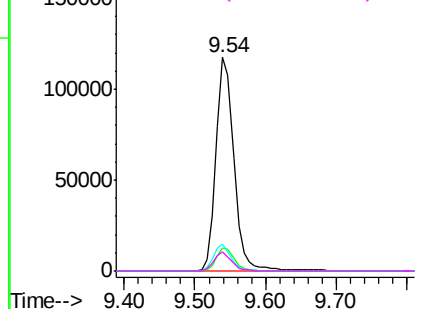
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	12.5	9.3	13.9
68	9.0	6.7	10.1

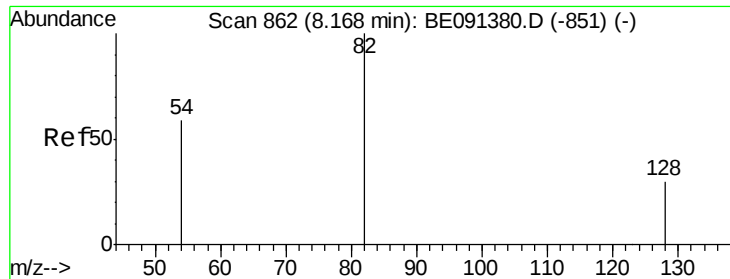
Abundance Ion 136.00 (135.70 to 136.70): E

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: 3.88 ng

RT: 8.14 min Scan# 855

Delta R.T. -0.03 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

PB88200BS

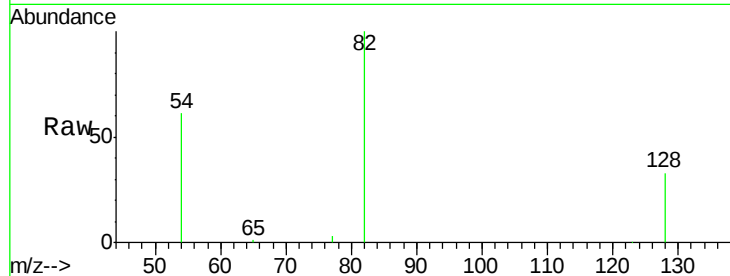
Tot Ion: 82 Resp: 52423

Ion Ratio Lower Upper

82 100

128 32.7 25.0 37.4

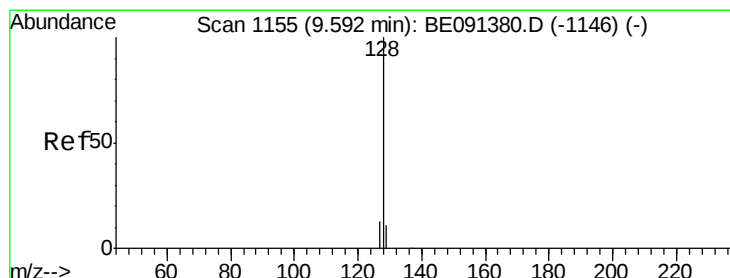
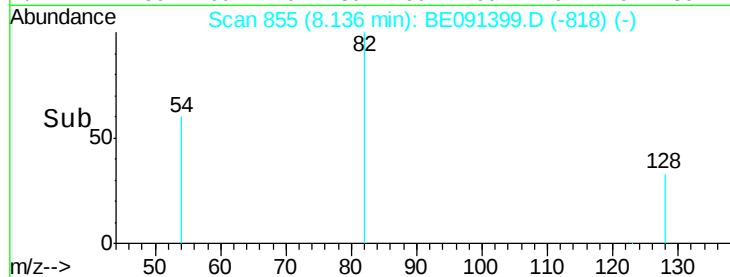
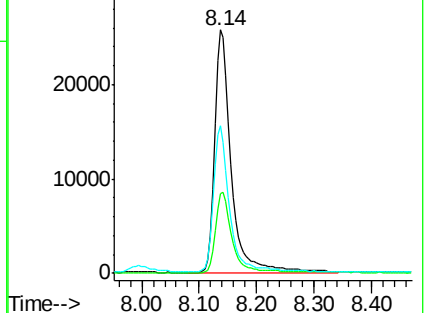
54 60.8 48.1 72.1



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: 3.64 ng

RT: 9.58 min Scan# 1154

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

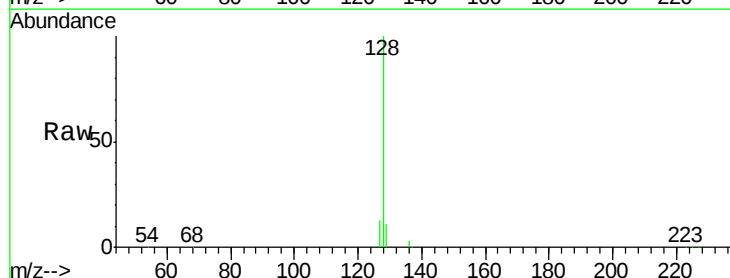
Tgt Ion: 128 Resp: 170359

Ion Ratio Lower Upper

128 100

129 11.2 9.1 13.7

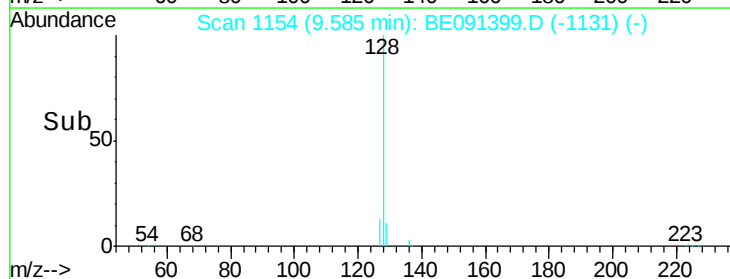
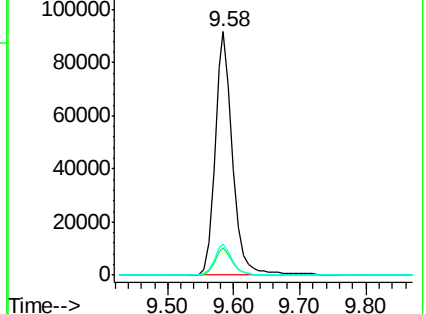
127 12.7 10.5 15.7



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: 3.96 ng

RT: 11.11 min Scan# 1405

Delta R.T. -0.02 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

PB88200BS

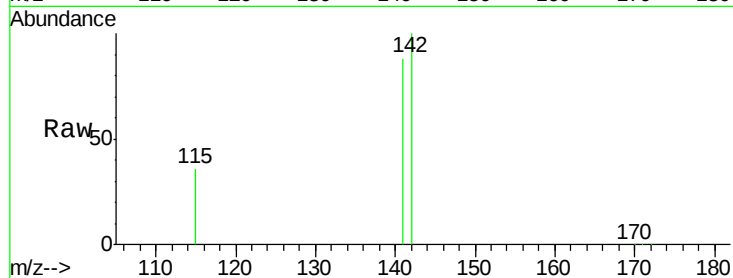
Tot Ion:142 Resp: 114728

Ion Ratio Lower Upper

142 100

141 88.4 72.3 108.5

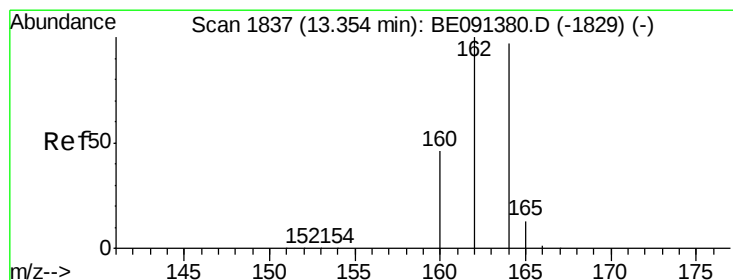
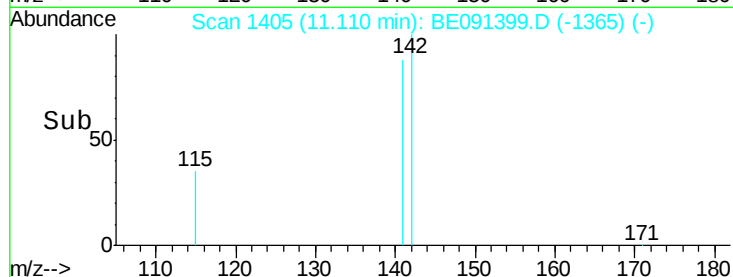
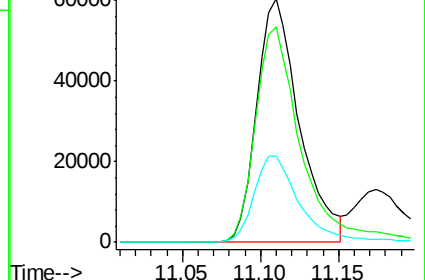
115 35.5 30.5 45.7



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: BE091399.D

Acq: 5 Feb 2016 14:38

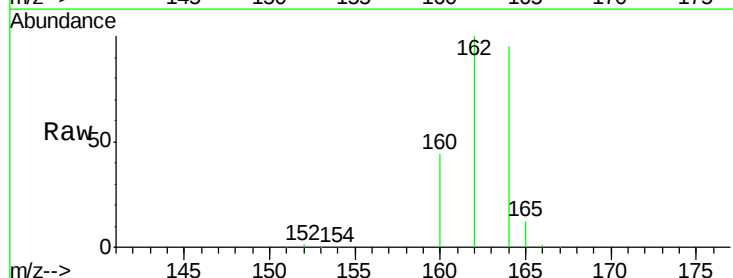
Tgt Ion:164 Resp: 129891

Ion Ratio Lower Upper

164 100

162 105.4 82.2 123.2

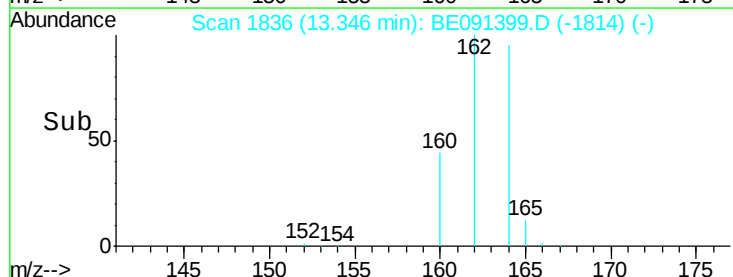
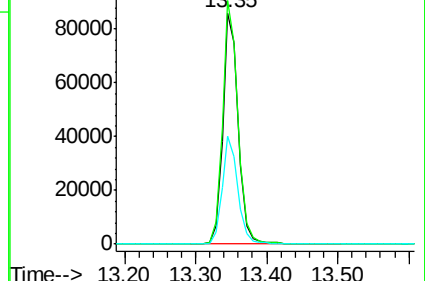
160 46.7 37.8 56.8



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: 6.84 ng

RT: 14.89 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

PB88200BS

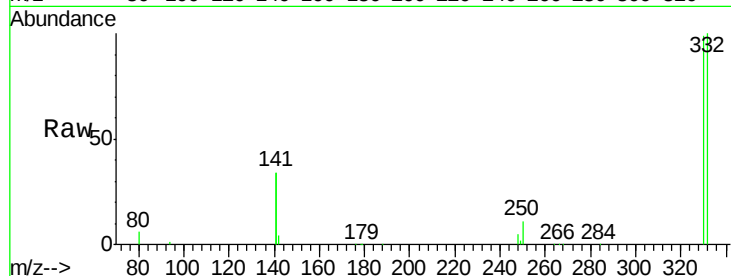
Tot Ion:330 Resp: 43176

Ion Ratio Lower Upper

330 100

332 97.8 78.8 118.2

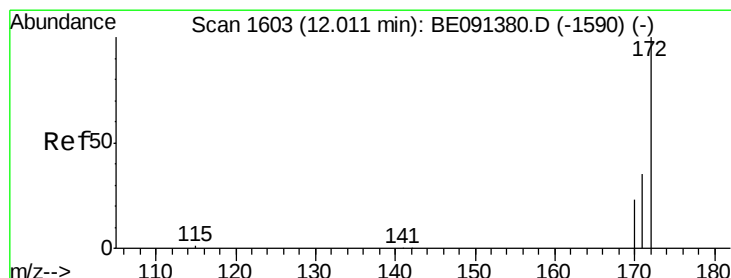
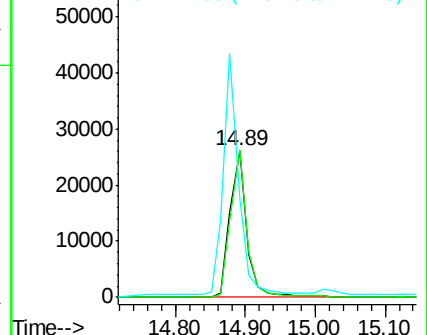
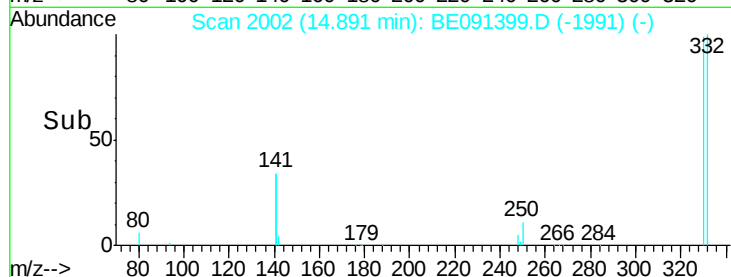
141 149.6 105.1 157.7



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: 4.45 ng

RT: 12.00 min Scan# 1600

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

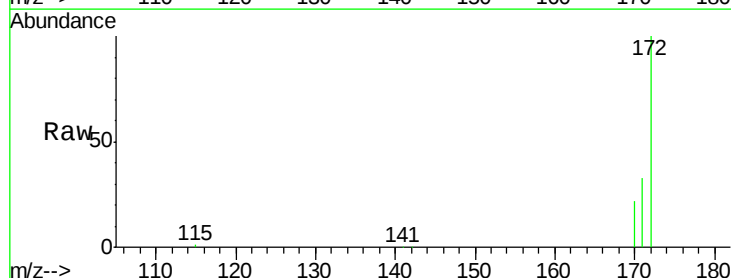
Tgt Ion:172 Resp: 150396

Ion Ratio Lower Upper

172 100

171 33.4 27.8 41.8

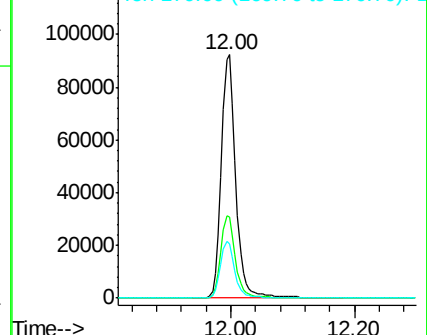
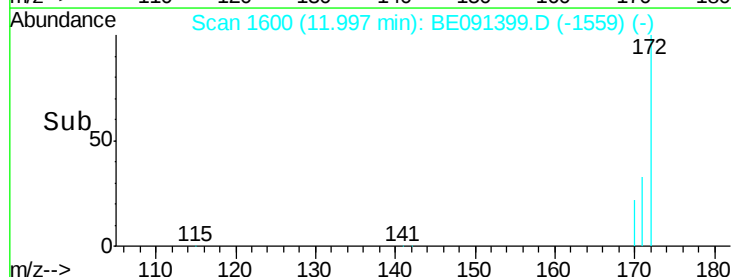
170 22.0 18.6 28.0

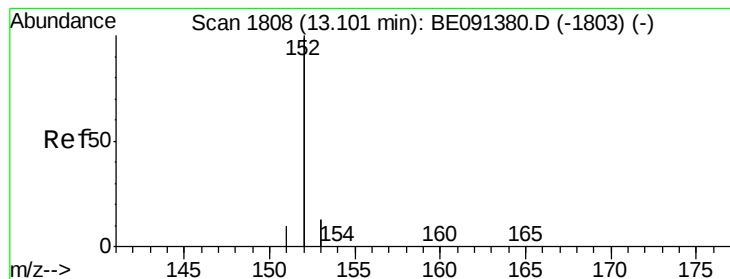


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 3.69 ng

RT: 13.09 min Scan# 1807

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

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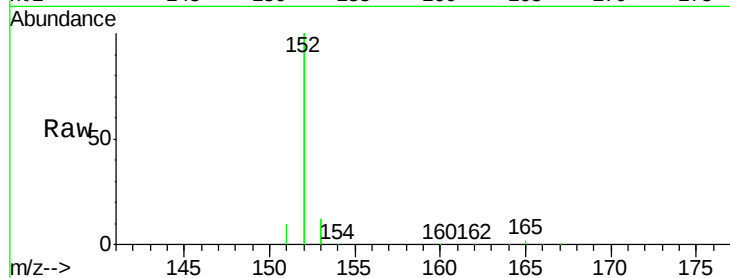
Tot Ion:152 Resp: 826223

Ion Ratio Lower Upper

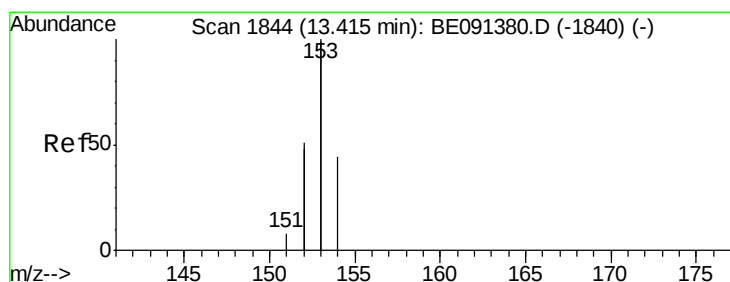
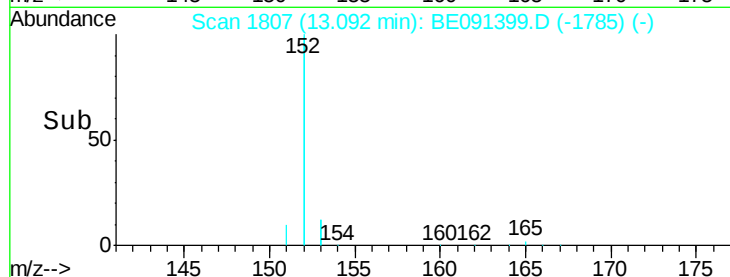
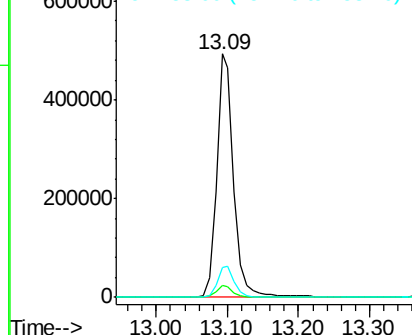
152 100

151 4.8 3.8 5.8

153 13.0 10.2 15.4



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#12

Acenaphthene

Concen: 3.65 ng

RT: 13.41 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

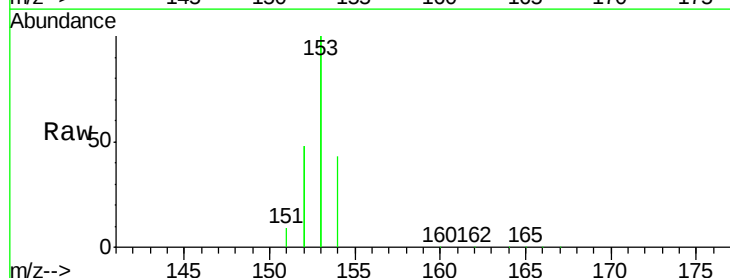
Tgt Ion:154 Resp: 130278

Ion Ratio Lower Upper

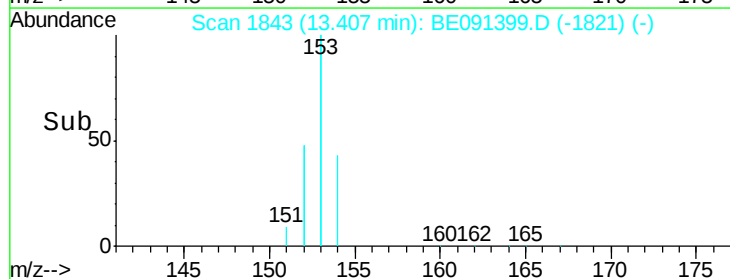
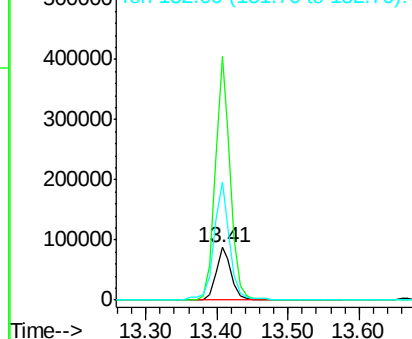
154 100

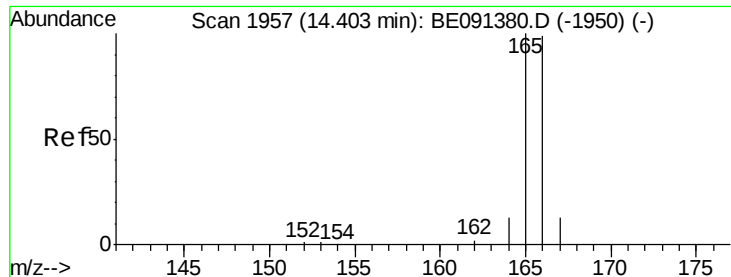
153 460.6 369.8 554.8

152 229.2 194.4 291.6



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#13

Fluorene

Concen: 3.97 ng

RT: 14.39 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

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ClientSampleId :

PB88200BS

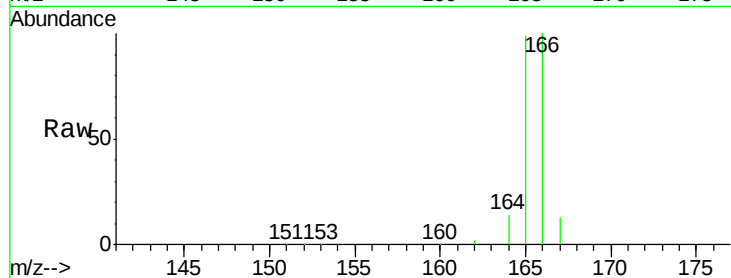
Tot Ion:166 Resp: 182731

Ion Ratio Lower Upper

166 100

165 98.5 79.3 118.9

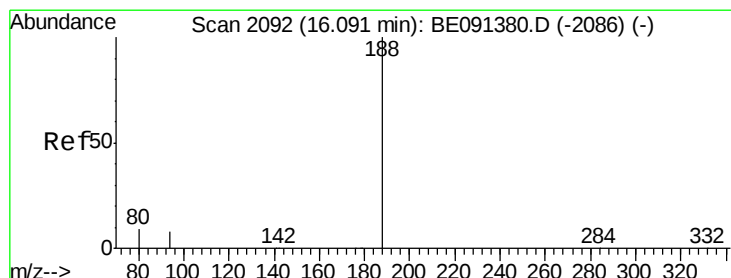
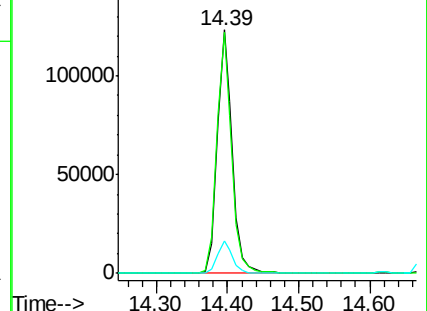
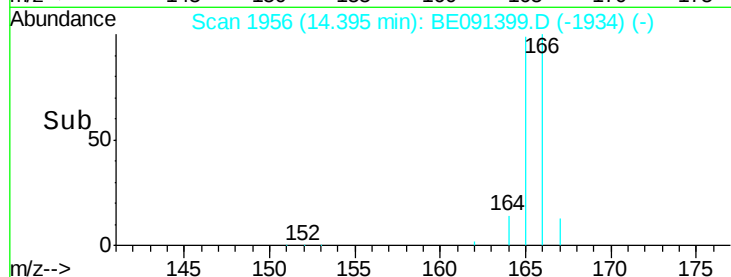
167 13.5 10.6 16.0



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# 2091

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

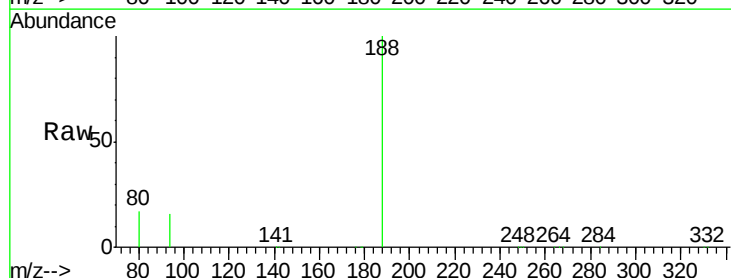
Tgt Ion:188 Resp: 317838

Ion Ratio Lower Upper

188 100

94 15.6 6.6 10.0#

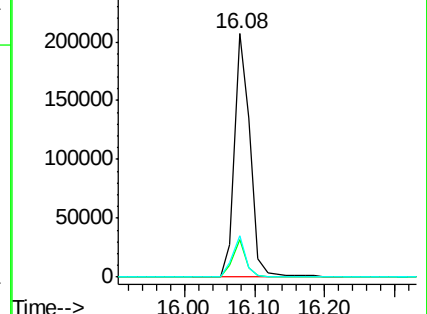
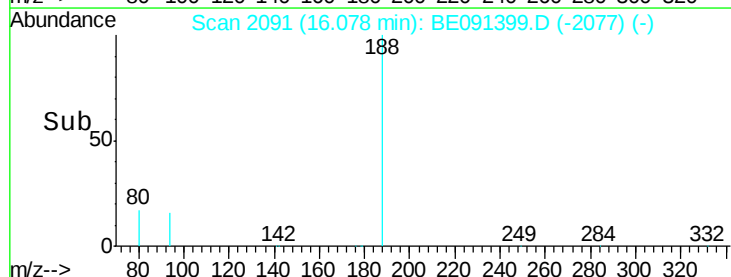
80 16.8 7.0 10.6#

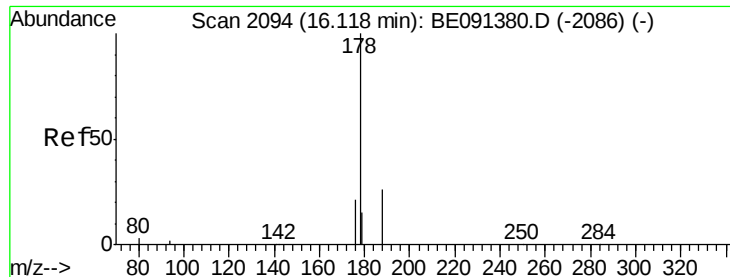


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

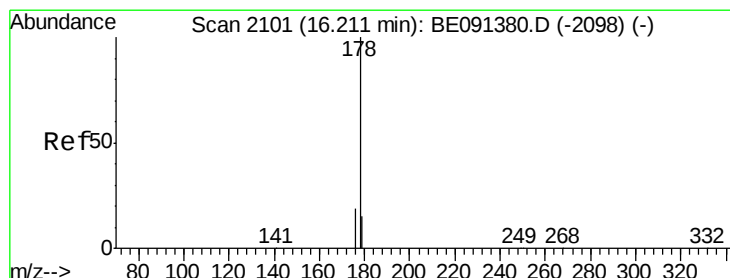
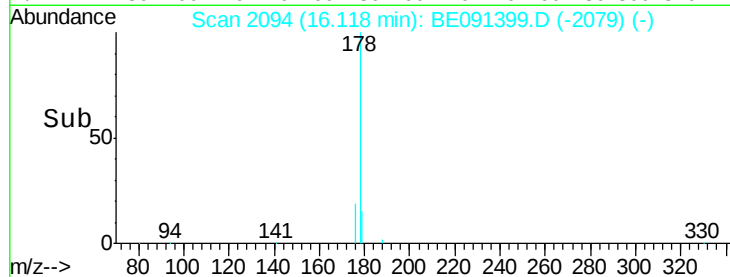
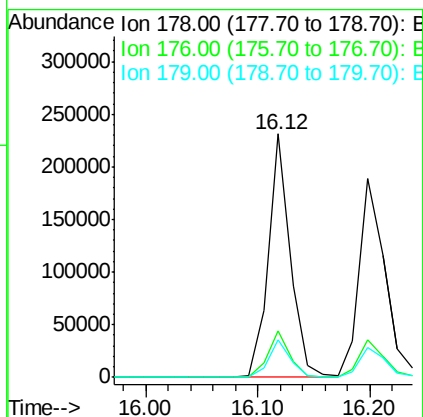
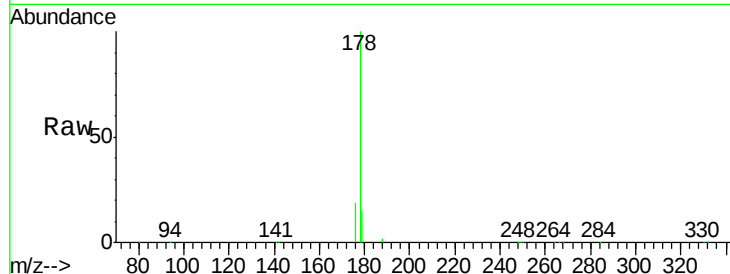




#15
Phenanthrene
Concen: 3.83 ng
RT: 16.12 min Scan# 2094
Delta R.T. 0.00 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

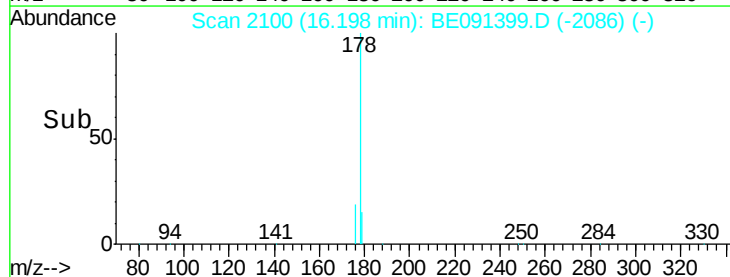
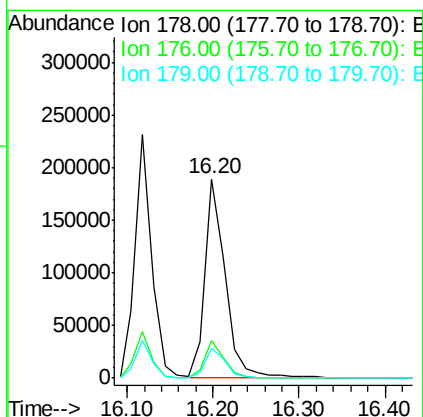
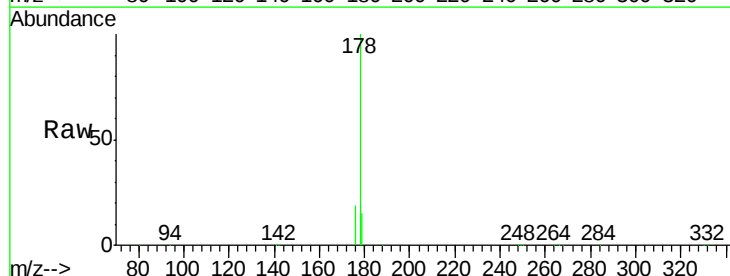
Instrument :
BNA_E
ClientSampleId :
PB88200BS

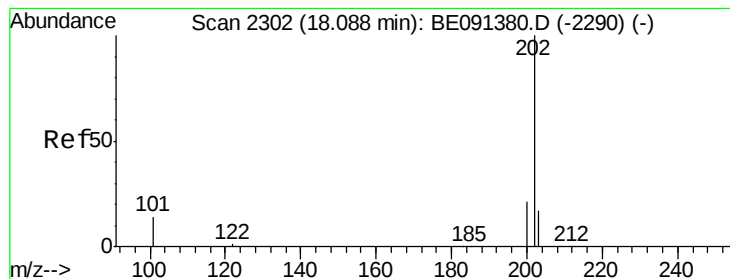
Tot Ion:178 Resp: 319440
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.7 19.1



#16
Anthracene
Concen: 4.39 ng
RT: 16.20 min Scan# 2100
Delta R.T. -0.01 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

Tgt Ion:178 Resp: 307337
Ion Ratio Lower Upper
178 100
176 18.4 14.8 22.2
179 15.5 12.1 18.1





#17

Fluoranthene

Concen: 4.05 ng

RT: 18.08 min Scan# 2301

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

PB88200BS

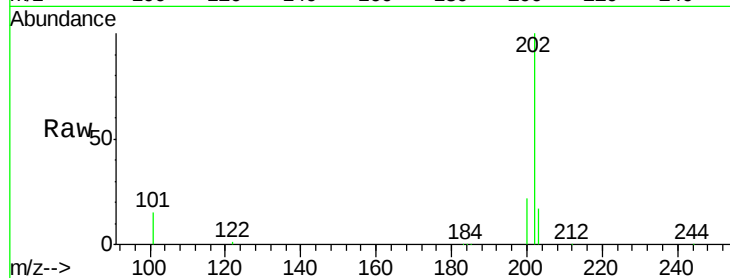
Tot Ion:202 Resp: 352568

Ion Ratio Lower Upper

202 100

101 14.1 10.5 15.7

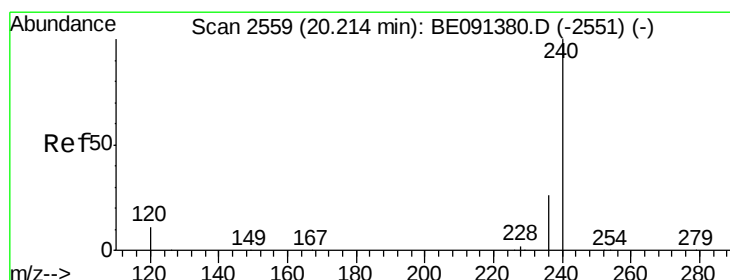
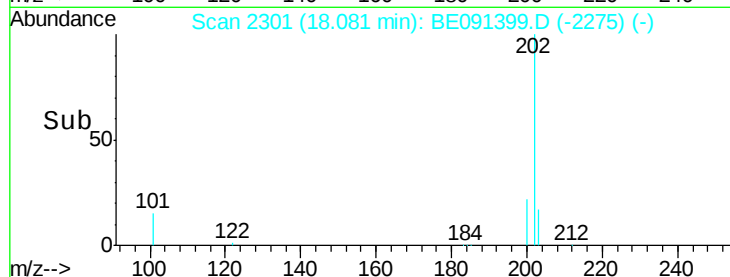
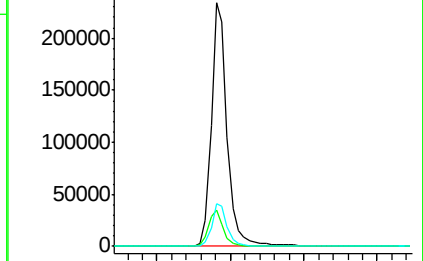
203 17.3 13.9 20.9



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# 2559

Delta R.T. 0.00 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

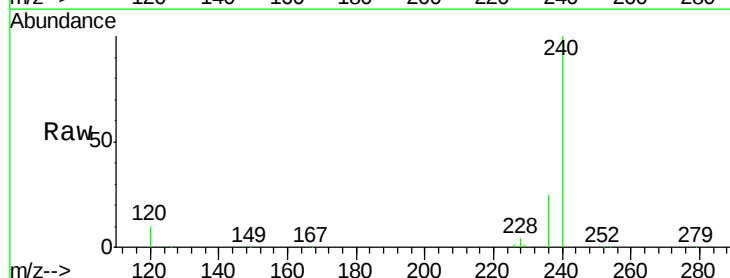
Tgt Ion:240 Resp: 399790

Ion Ratio Lower Upper

240 100

120 9.9 8.9 13.3

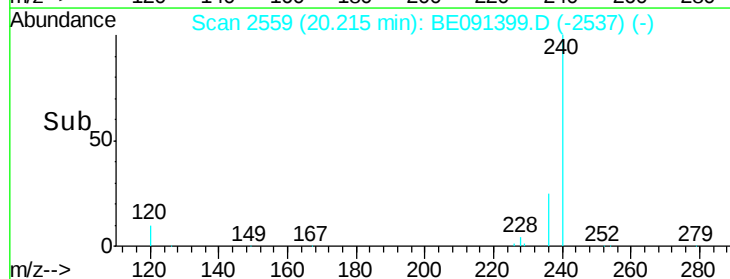
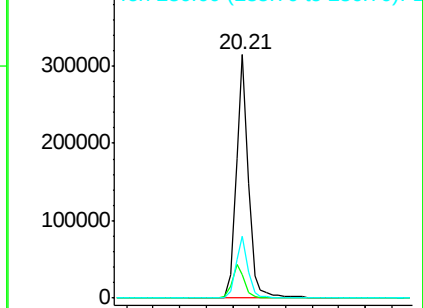
236 25.2 21.0 31.4



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: 4.36 ng

RT: 18.46 min Scan# 2352

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

PB88200BS

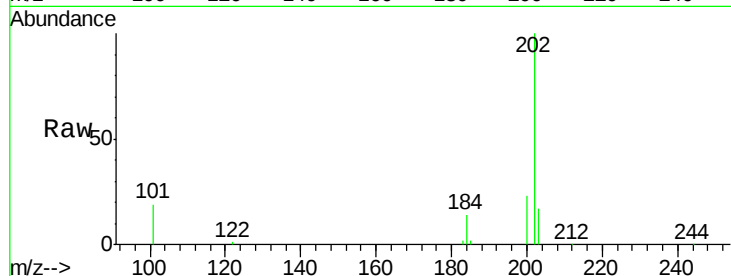
Tot Ion:202 Resp: 377555

Ion Ratio Lower Upper

202 100

200 21.3 16.8 25.2

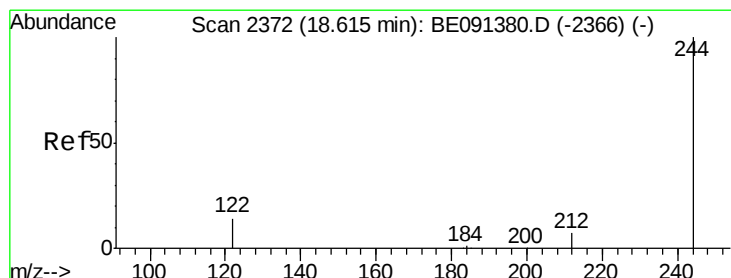
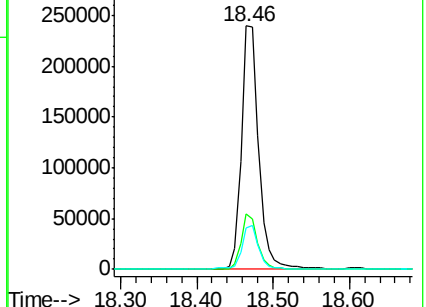
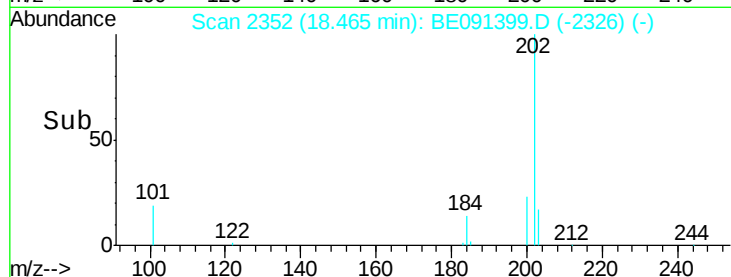
203 18.0 14.0 21.0



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: 4.25 ng

RT: 18.61 min Scan# 2371

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

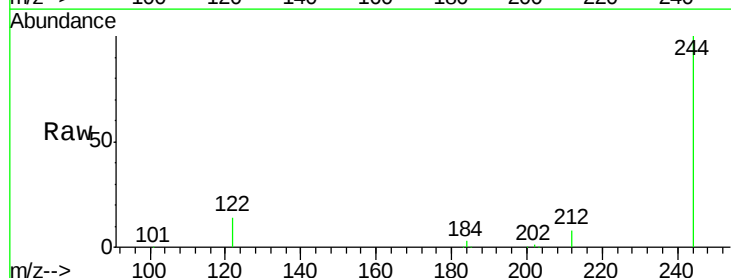
Tgt Ion:244 Resp: 251429

Ion Ratio Lower Upper

244 100

212 7.8 6.1 9.1

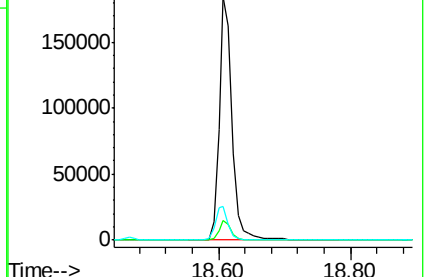
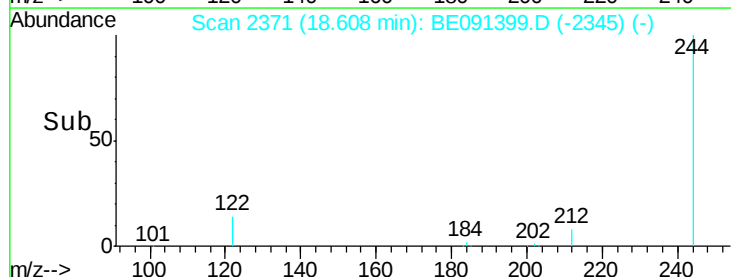
122 14.0 11.0 16.6

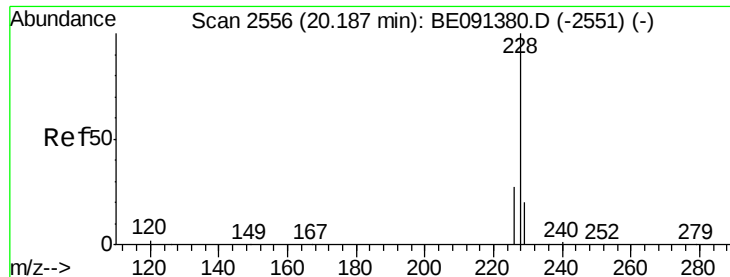


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 4.00 ng

RT: 20.18 min Scan# 2555

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

PB88200BS

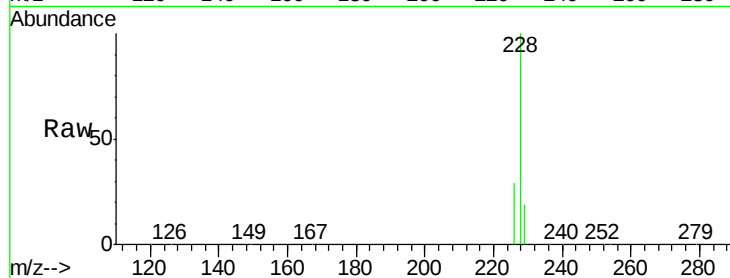
Tot Ion:228 Resp: 353693

Ion Ratio Lower Upper

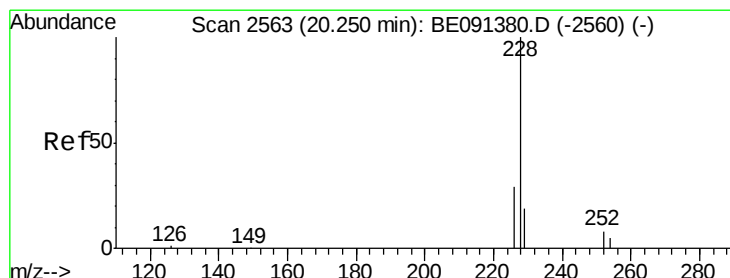
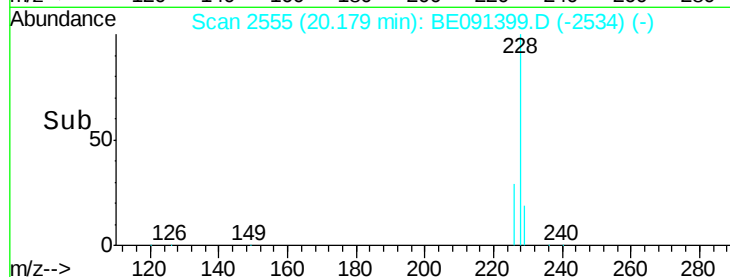
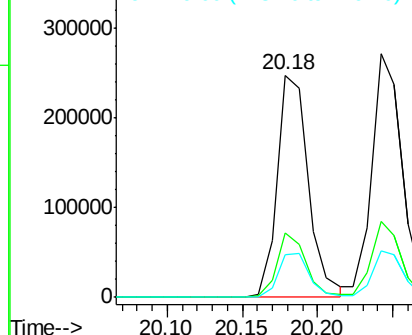
228 100

226 28.9 21.7 32.5

229 19.3 16.1 24.1



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: 3.99 ng

RT: 20.24 min Scan# 2562

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

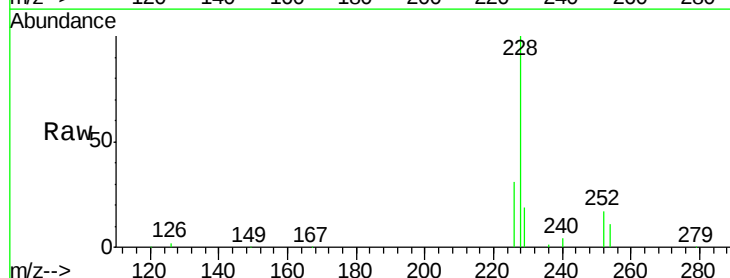
Tgt Ion:228 Resp: 396611

Ion Ratio Lower Upper

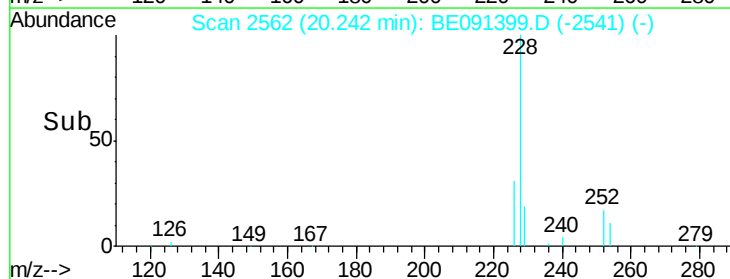
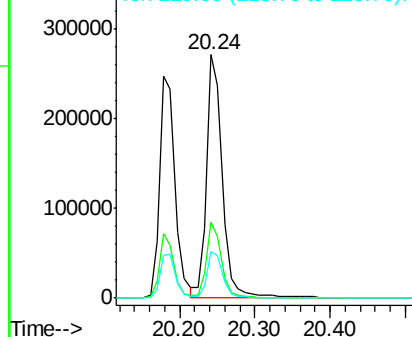
228 100

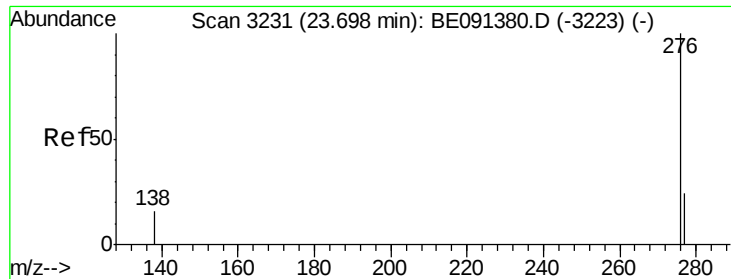
226 31.4 23.4 35.0

229 19.3 15.7 23.5



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

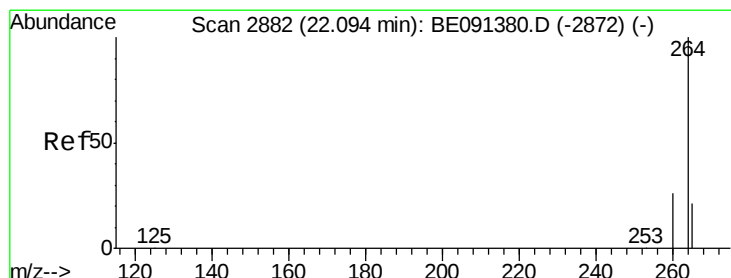
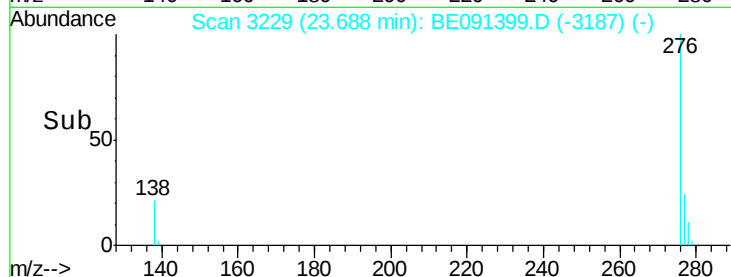
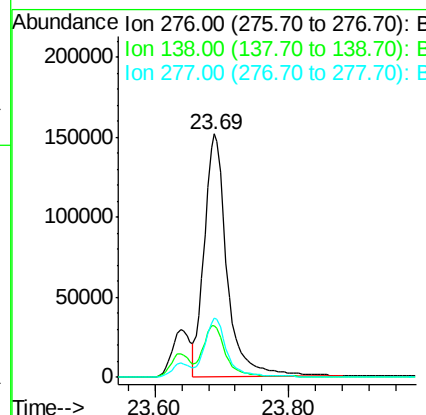
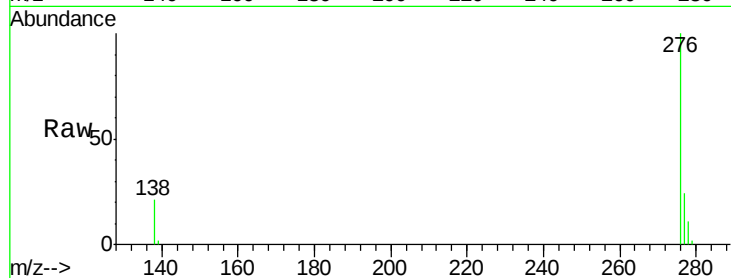




#23
Indeno(1,2,3-cd)pyrene
Concen: 3.94 ng
RT: 23.69 min Scan# 3229
Delta R.T. -0.01 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

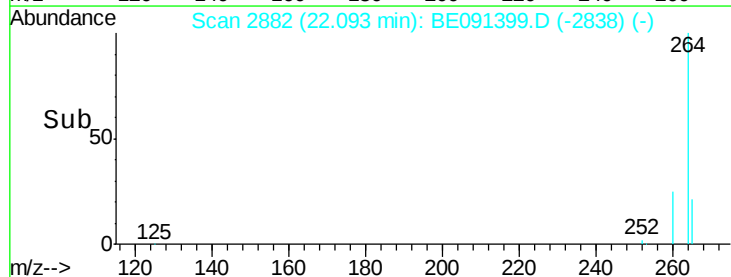
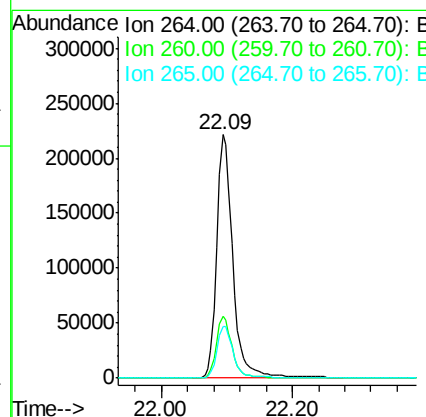
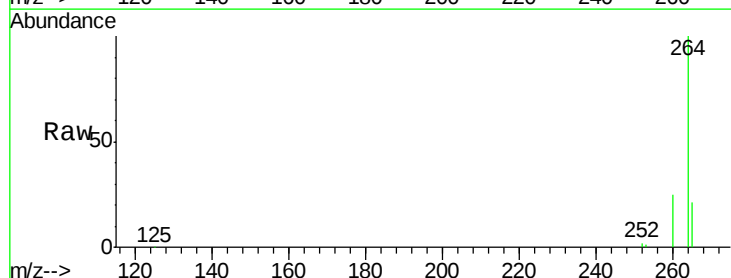
Instrument :
BNA_E
ClientSampleId :
PB88200BS

Tot Ion:276 Resp: 354779
Ion Ratio Lower Upper
276 100
138 21.8 16.6 25.0
277 24.2 19.0 28.6



#24
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2882
Delta R.T. -0.00 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

Tgt Ion:264 Resp: 379579
Ion Ratio Lower Upper
264 100
260 25.4 20.7 31.1
265 21.4 17.2 25.8





#25

Benzo(b)fluoranthene

Concen: 3.96 ng

RT: 21.54 min Scan# 2761

Delta R.T. -0.00 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

PB88200BS

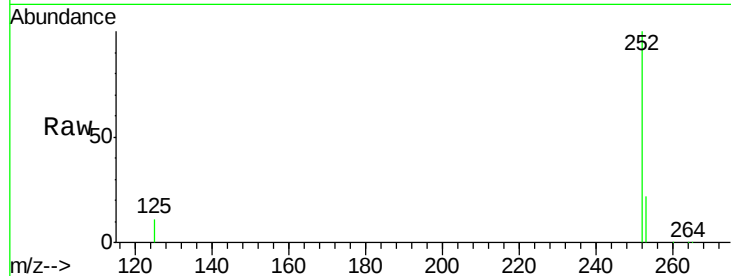
Tot Ion:252 Resp: 371220

Ion Ratio Lower Upper

252 100

253 21.8 18.2 27.2

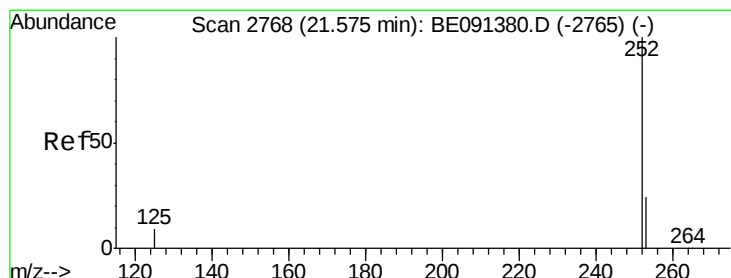
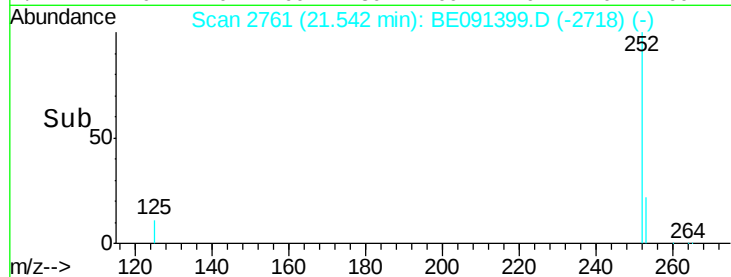
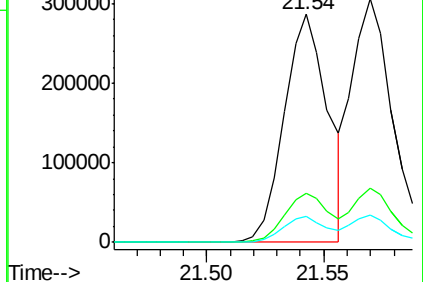
125 11.1 8.3 12.5



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Benzo(k)fluoranthene

Concen: 4.20 ng

RT: 21.57 min Scan# 2767

Delta R.T. -0.01 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

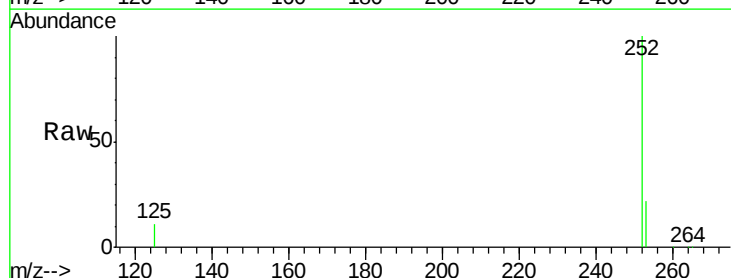
Tgt Ion:252 Resp: 398081

Ion Ratio Lower Upper

252 100

253 22.0 18.1 27.1

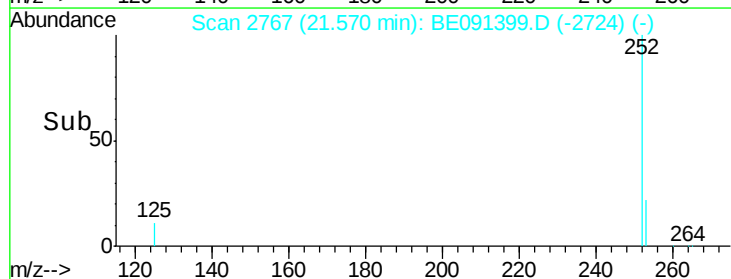
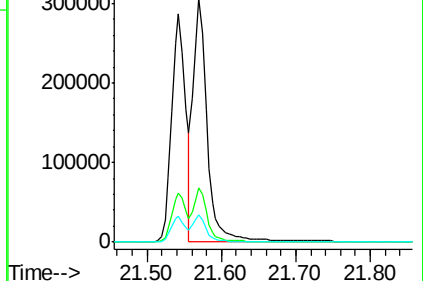
125 11.2 8.2 12.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

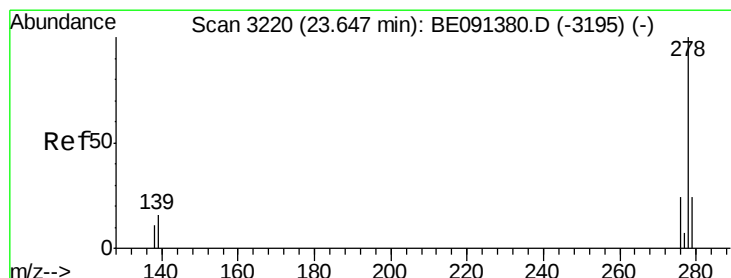
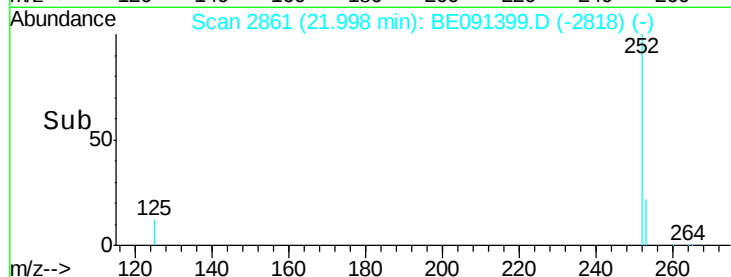
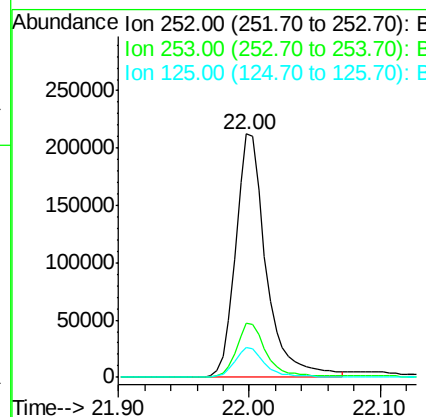
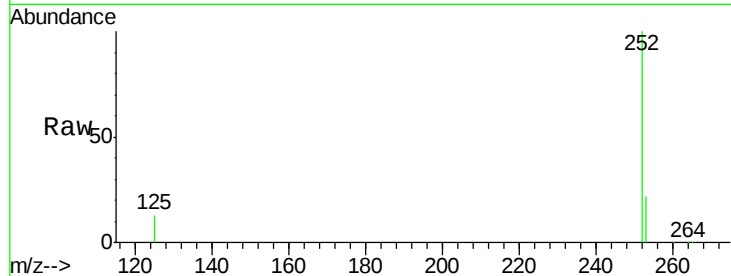




#27
Benzo(a)pyrene
Concen: 3.94 ng
RT: 22.00 min Scan# 2861
Delta R.T. -0.01 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

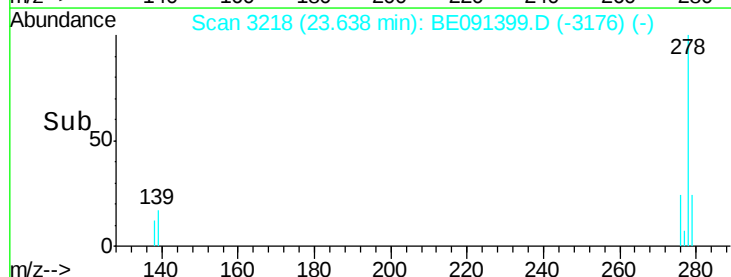
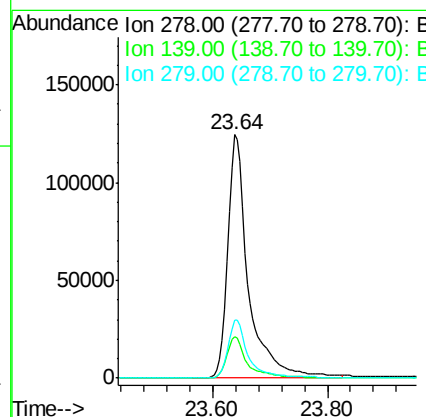
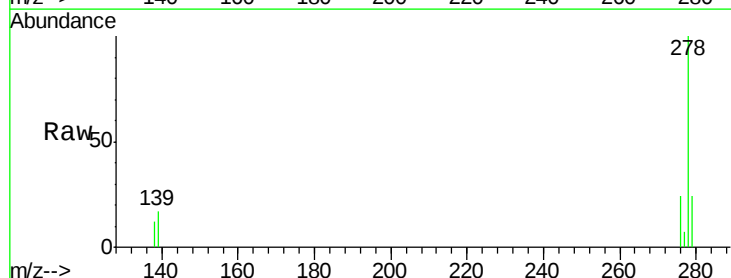
Instrument :
BNA_E
ClientSampleId :
PB88200BS

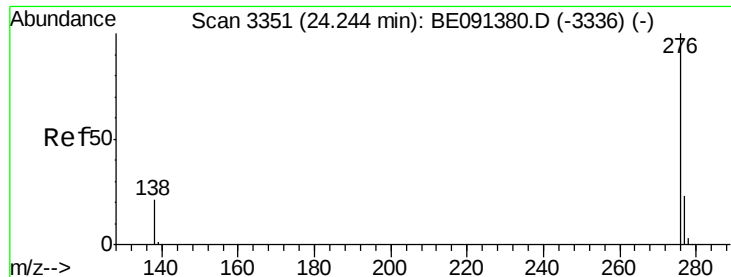
Tot Ion:252 Resp: 340946
Ion Ratio Lower Upper
252 100
253 22.1 17.5 26.3
125 12.5 9.4 14.0



#28
Dibenzo(a,h)anthracene
Concen: 3.74 ng
RT: 23.64 min Scan# 3218
Delta R.T. -0.01 min
Lab File: BE091399.D
Acq: 5 Feb 2016 14:38

Tgt Ion:278 Resp: 317613
Ion Ratio Lower Upper
278 100
139 17.2 13.0 19.4
279 23.8 19.2 28.8





#29

Benzo(a,h,i)perylene

Concen: 3.90 ng

RT: 24.24 min Scan# 3350

Delta R.T. -0.00 min

Lab File: BE091399.D

Acq: 5 Feb 2016 14:38

Instrument :

BNA_E

ClientSampleId :

PB88200BS

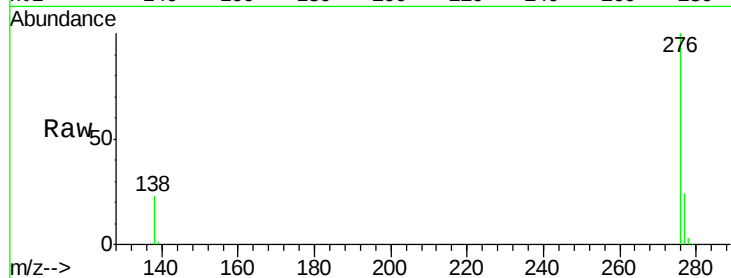
Tot Ion: 276 Resp: 364919

Ion Ratio Lower Upper

276 100

277 24.1 18.9 28.3

138 23.1 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

