

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020216\
 Data File : BE091381.D
 Acq On : 2 Feb 2016 17:19
 Operator : UM/IZ
 Sample : SSTDICC002
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 17:54:05 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 02 17:28:11 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	46494	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	221204	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	136522	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	335402	5.00	ng	-0.01
18) Chrysene-d12	20.22	240	393063	5.00	ng	0.00
24) Perylene-d12	22.10	264	360641	5.00	ng	0.00

System Monitoring Compounds

2) 2-Fluorophenol	4.93	112	18623	3.76	ng	-0.02
3) Phenol-d6	6.55	99	24581	3.10	ng	-0.02
5) Nitrobenzene-d5	8.15	82	22936	1.79	ng	-0.02
9) 2,4,6-Tribromophenol	14.89	330	9646	3.44	ng	-0.01
10) 2-Fluorobiphenyl	12.00	172	72829	2.47	ng	0.00
20) Terphenyl-d14	18.61	244	125261	3.36	ng	0.00

Target Compounds

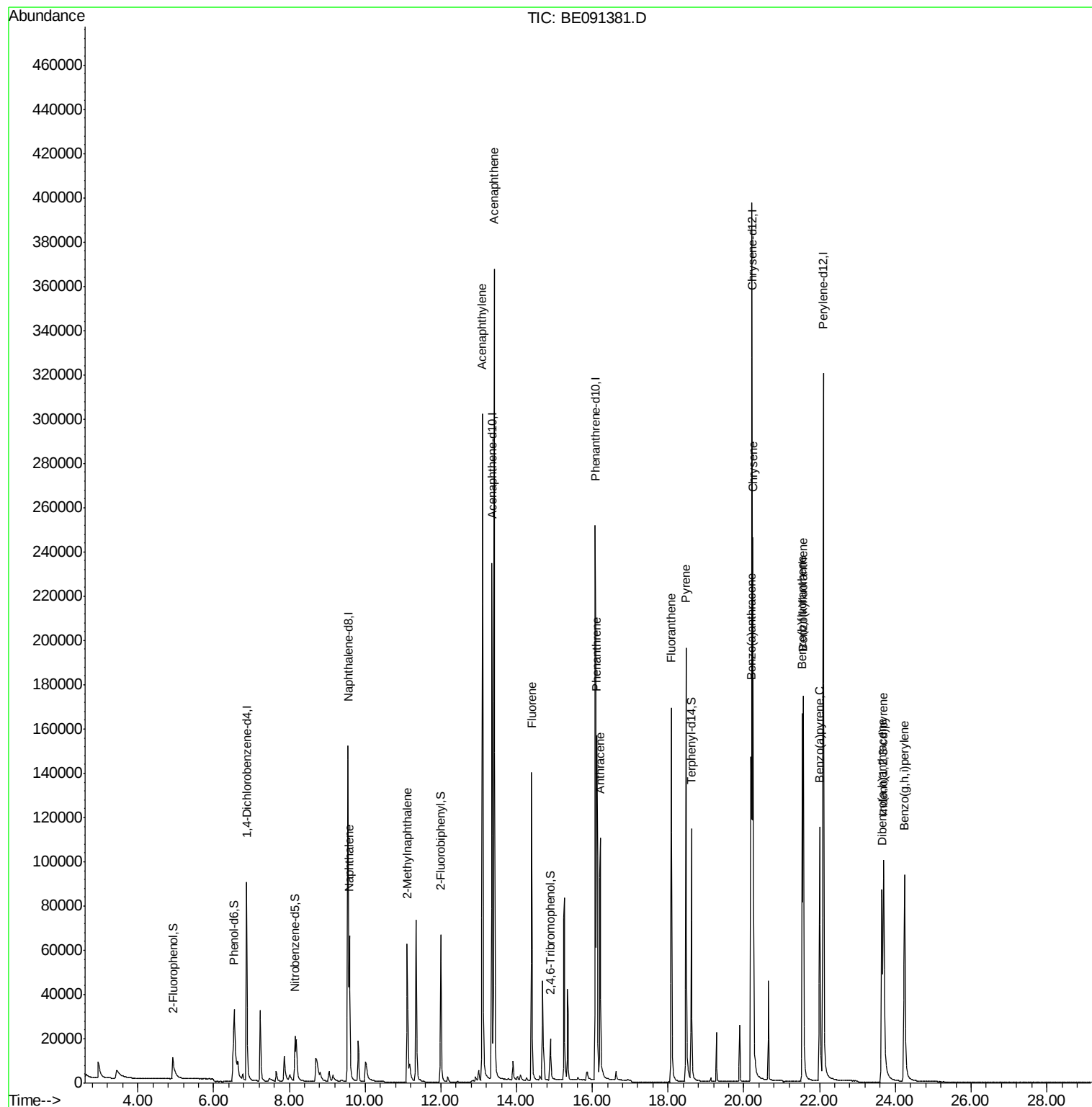
						Qvalue
6) Naphthalene	9.58	128	97031	2.06	ng	99
7) 2-Methylnaphthalene	11.12	142	56960	3.09	ng	# 91
11) Acenaphthylene	13.10	152	420832	2.35	ng	99
12) Acenaphthene	13.41	154	72453	1.87	ng	# 70
13) Fluorene	14.40	166	100277	2.33	ng	96
15) Phenanthrene	16.12	178	174121	2.10	ng	99
16) Anthracene	16.21	178	159581	2.74	ng	100
17) Fluoranthene	18.09	202	170417	2.84	ng	100
19) Pyrene	18.47	202	182299	3.04	ng	99
21) Benzo(a)anthracene	20.19	228	154537	2.82	ng	97
22) Chrysene	20.24	228	205481	2.15	ng	97
23) Indeno(1,2,3-cd)pyrene	23.69	276	159487	2.56	ng	93
25) Benzo(b)fluoranthene	21.54	252	157532	2.60	ng	# 97
26) Benzo(k)fluoranthene	21.57	252	191991	2.71	ng	# 96
27) Benzo(a)pyrene	22.00	252	147173	2.38	ng	# 96
28) Dibenzo(a,h)anthracene	23.64	278	135558	2.95	ng	# 95
29) Benzo(g,h,i)perylene	24.24	276	164074	2.80	ng	# 91

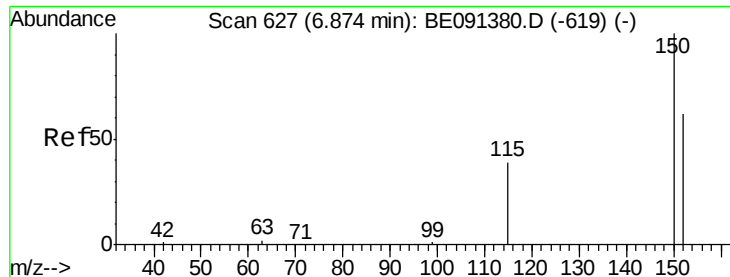
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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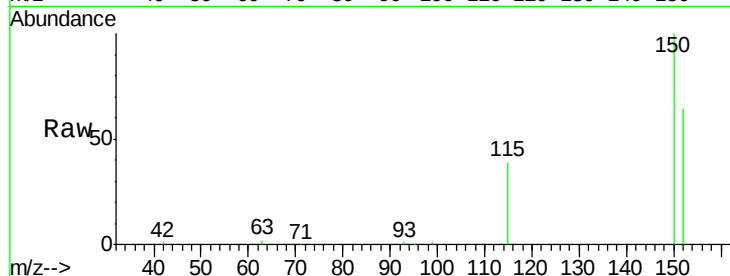


#1

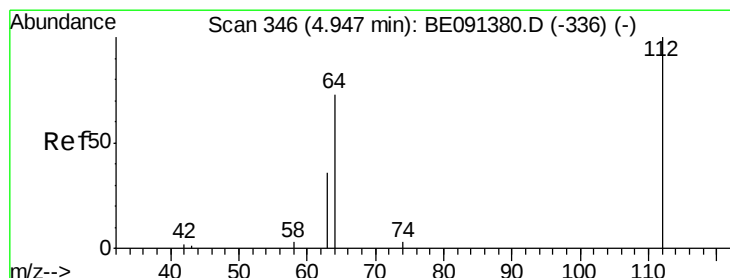
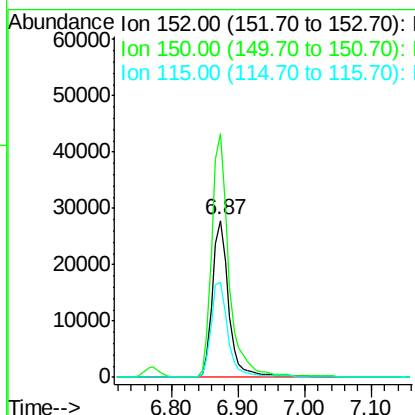
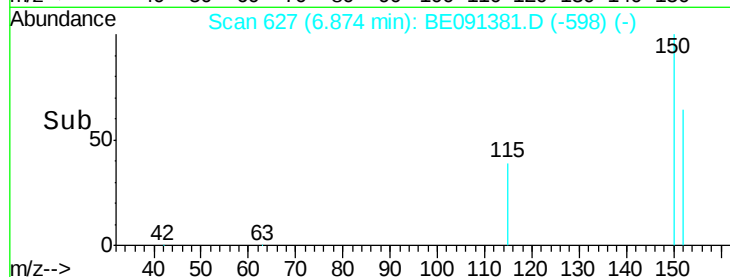
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.87 min Scan# 627
Delta R.T. -0.00 min
Lab File: BE091381.D
Acq: 2 Feb 2016 17:19

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 46494
Ion Ratio Lower Upper
152 100
150 155.5 121.6 182.4
115 60.7 50.6 75.8



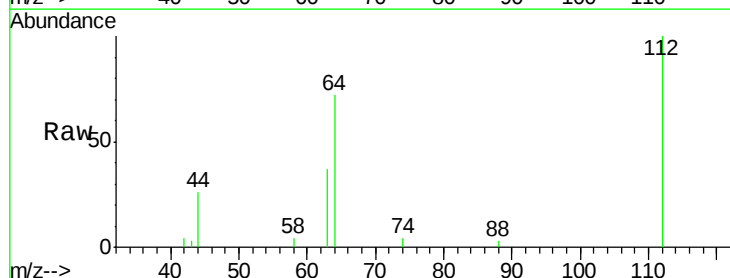
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



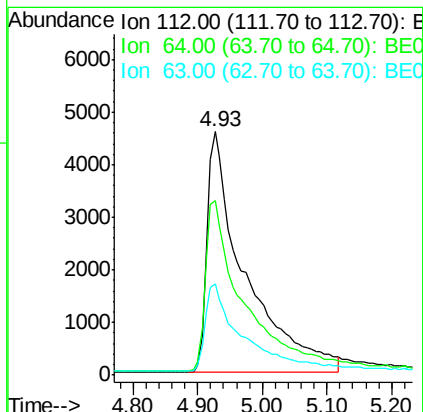
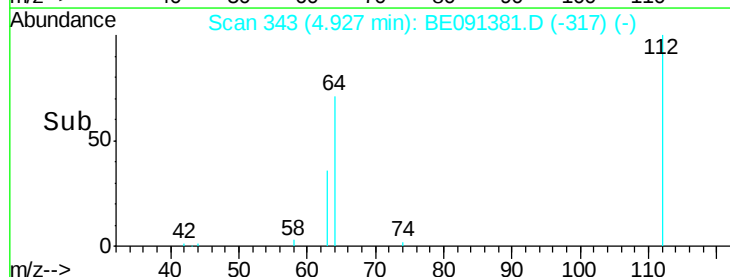
#2

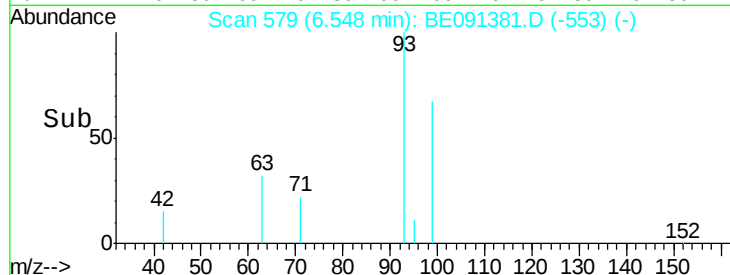
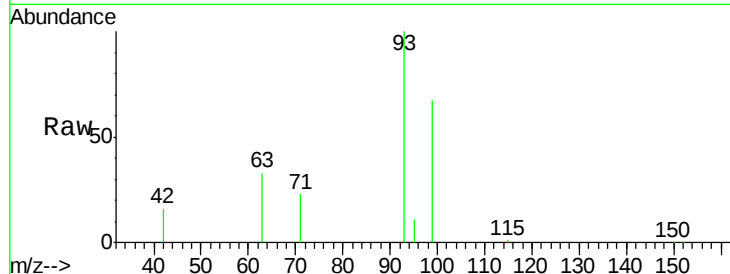
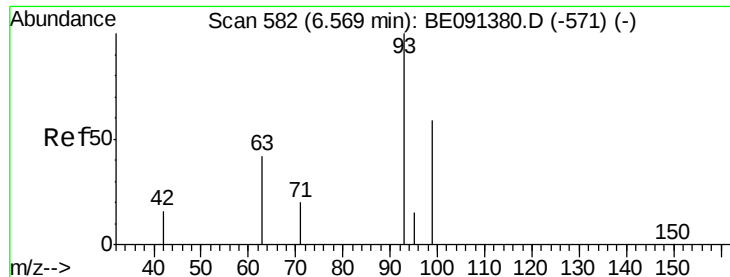
2-Fluorophenol
Concen: 3.76 ng
RT: 4.93 min Scan# 343
Delta R.T. -0.02 min
Lab File: BE091381.D
Acq: 2 Feb 2016 17:19

Tgt Ion:112 Resp: 18623
Ion Ratio Lower Upper
112 100
64 72.1 57.4 86.0
63 36.6 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: 3.10 ng

RT: 6.55 min Scan# 579

Delta R.T. -0.02 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

Instrument :

BNA_E

ClientSampleId :

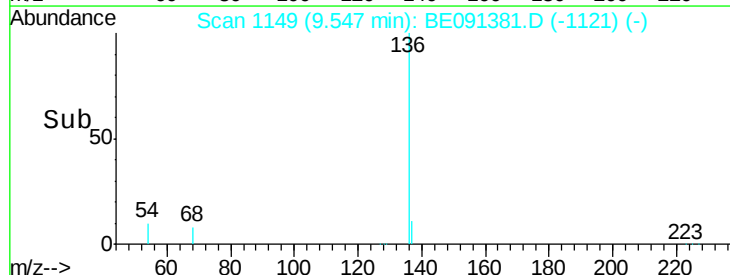
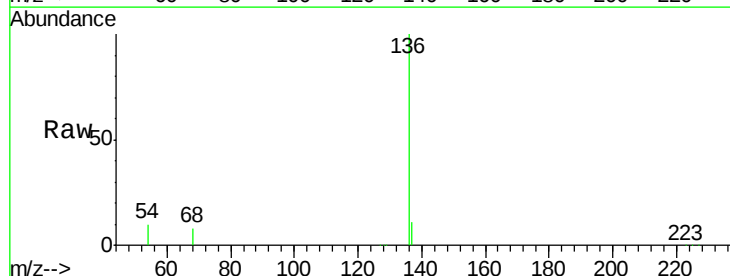
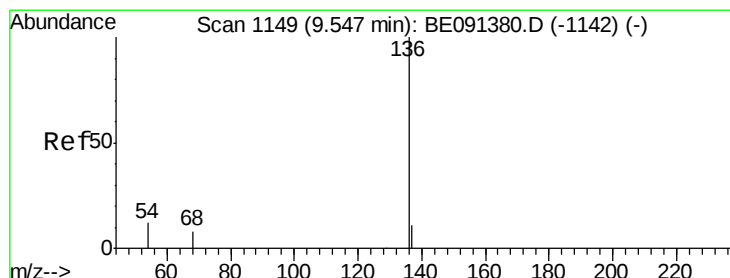
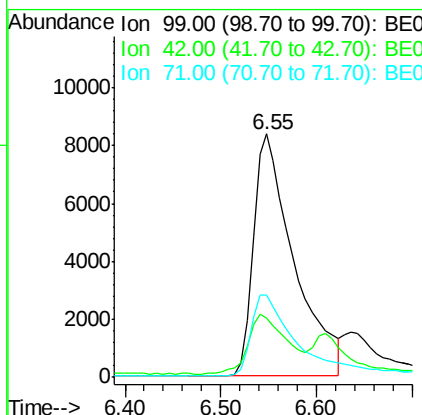
Tot Ion: 99 Resp: 24581

Ion Ratio Lower Upper

99 100

42 23.7 22.9 34.3

71 38.5 35.4 53.2



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

Tgt Ion: 136 Resp: 221204

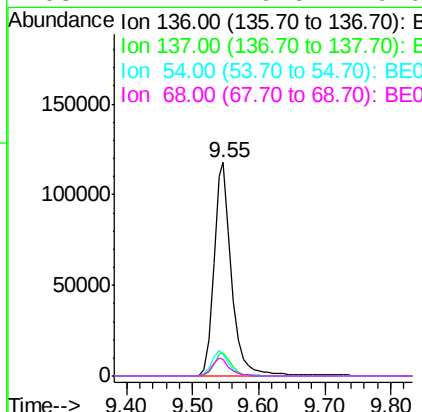
Ion Ratio Lower Upper

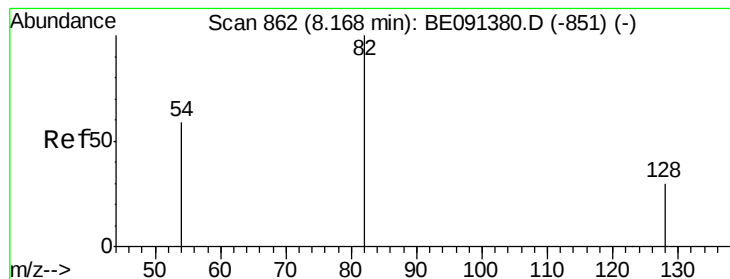
136 100

137 10.9 8.7 13.1

54 10.5 9.8 14.6

68 7.7 6.6 10.0





#5

Nitrobenzene-d5

Concen: 1.79 ng

RT: 8.15 min Scan# 858

Delta R.T. -0.02 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

Instrument :

BNA_E

ClientSampleId :

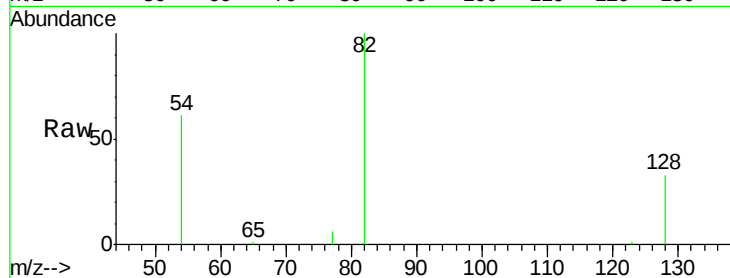
Tot Ion: 82 Resp: 22936

Ion Ratio Lower Upper

82 100

128 32.9 24.6 36.8

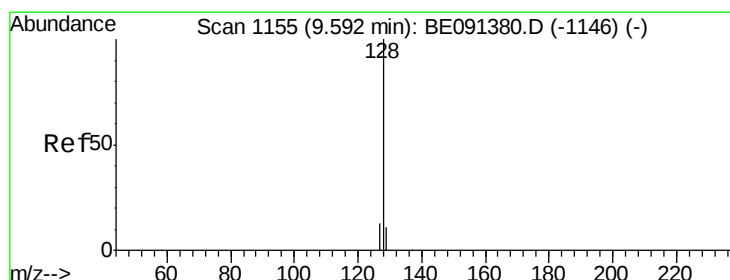
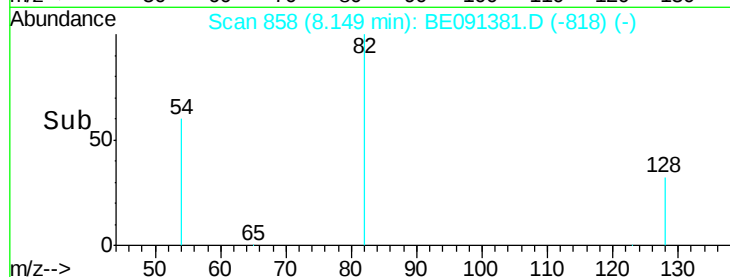
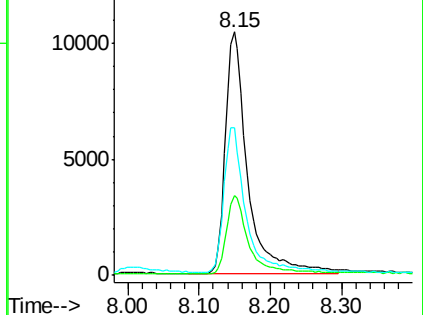
54 60.6 52.7 79.1



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: 2.06 ng

RT: 9.58 min Scan# 1154

Delta R.T. -0.01 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

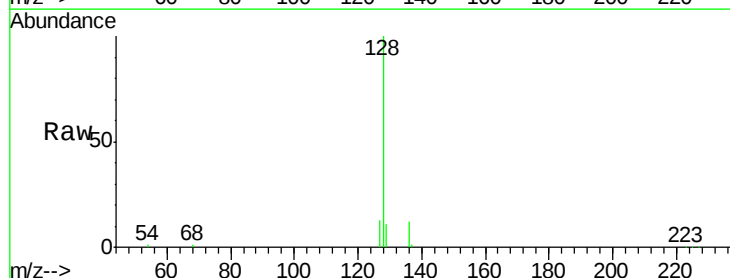
Tgt Ion: 128 Resp: 97031

Ion Ratio Lower Upper

128 100

129 11.2 9.3 13.9

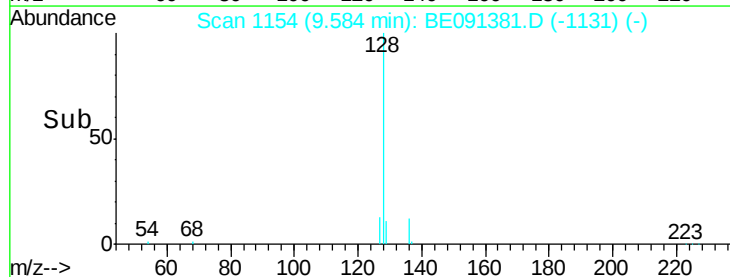
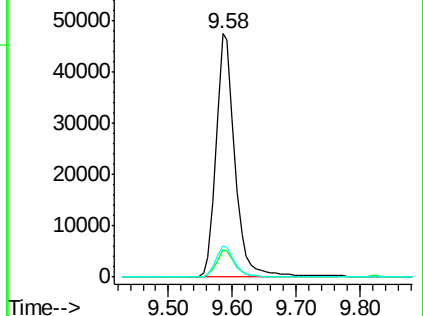
127 13.0 10.6 15.8



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: 3.09 ng

RT: 11.12 min Scan# 1407

Delta R.T. -0.01 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

Instrument :

BNA_E

ClientSampleId :

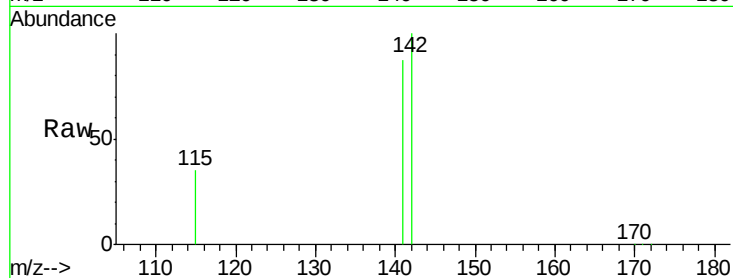
Tot Ion:142 Resp: 56960

Ion Ratio Lower Upper

142 100

141 87.0 74.5 111.7

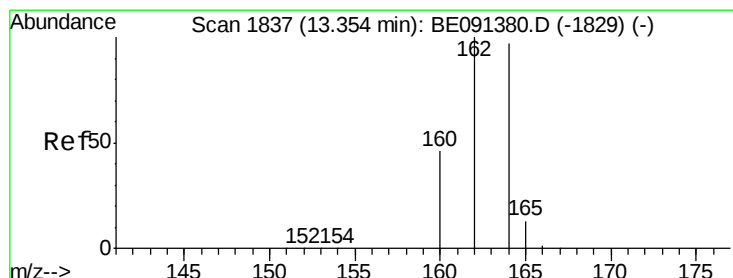
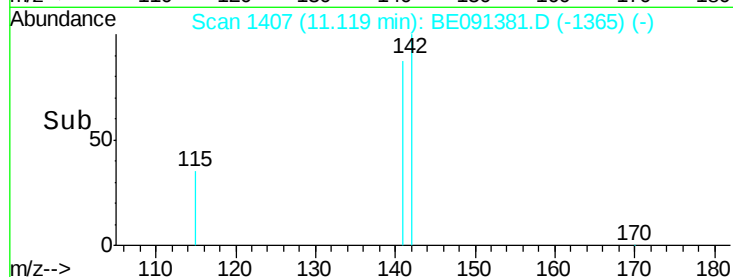
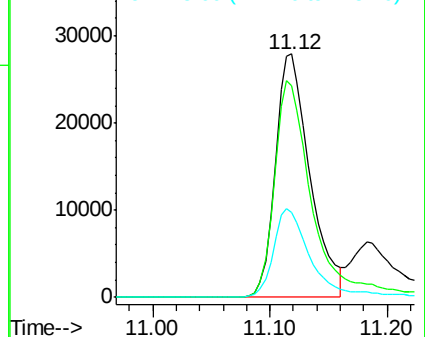
115 35.0 35.2 52.8#



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: 13.35 min Scan# 1837

Delta R.T. -0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

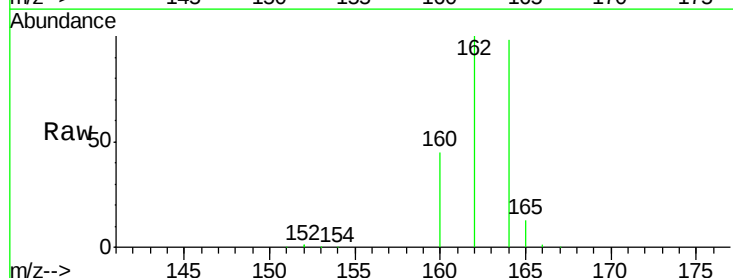
Tgt Ion:164 Resp: 136522

Ion Ratio Lower Upper

164 100

162 102.0 88.5 132.7

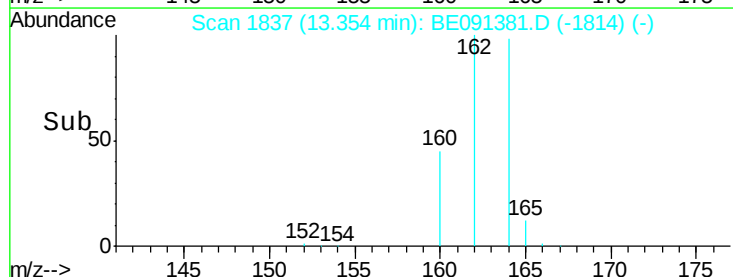
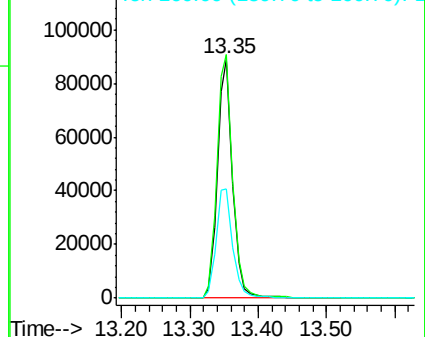
160 45.6 76.7 115.1#



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

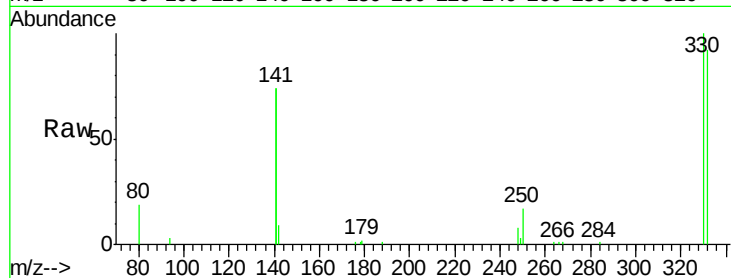




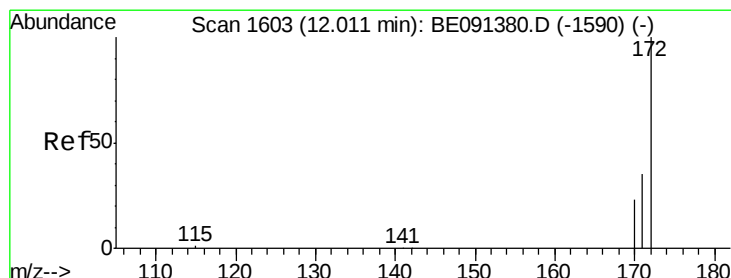
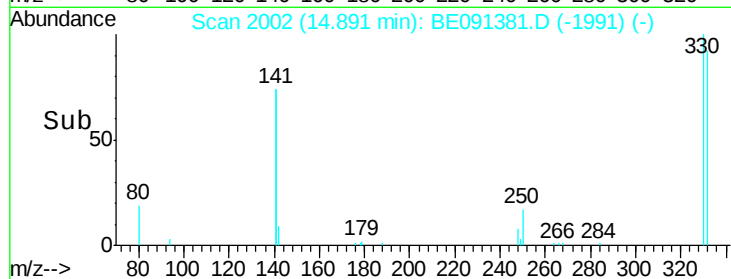
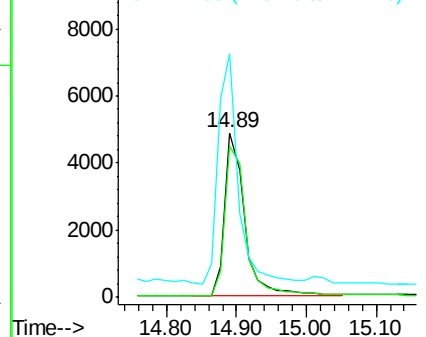
#9
 2,4,6-Tribromophenol
 Concen: 3.44 ng
 RT: 14.89 min Scan# 2002
 Delta R.T. -0.01 min
 Lab File: BE091381.D
 Acq: 2 Feb 2016 17:19

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:330 Resp: 9646
 Ion Ratio Lower Upper
 330 100
 332 96.6 78.6 118.0
 141 141.1 147.8 221.8#

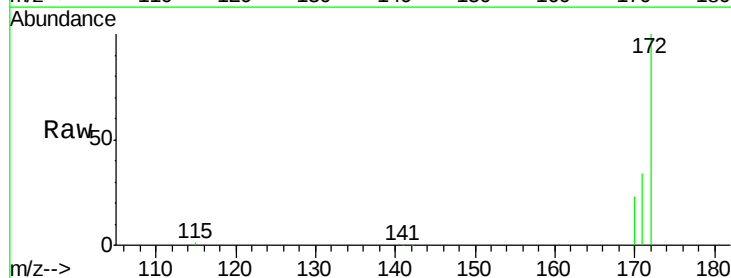


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

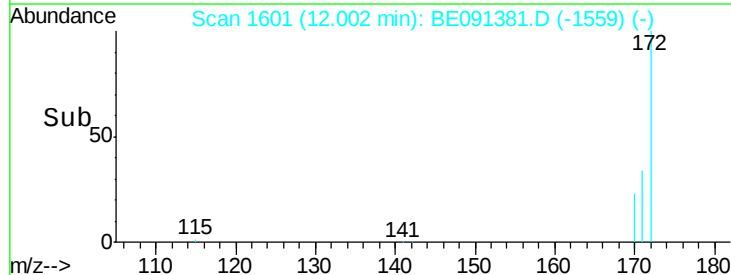
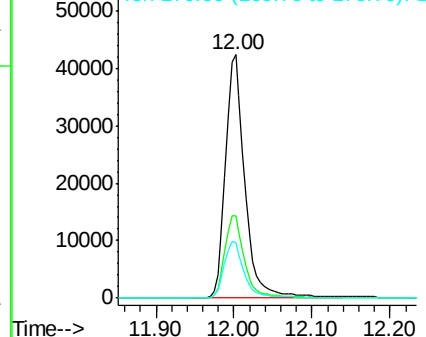


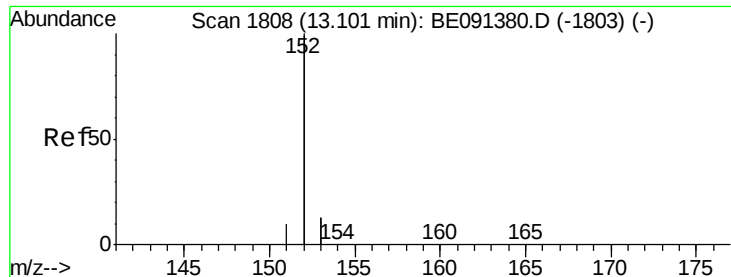
#10
 2-Fluorobiphenyl
 Concen: 2.47 ng
 RT: 12.00 min Scan# 1601
 Delta R.T. -0.01 min
 Lab File: BE091381.D
 Acq: 2 Feb 2016 17:19

Tgt Ion:172 Resp: 72829
 Ion Ratio Lower Upper
 172 100
 171 33.9 27.3 40.9
 170 22.8 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: 2.35 ng

RT: 13.10 min Scan# 1808

Delta R.T. -0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

Instrument :

BNA_E

ClientSampleId :

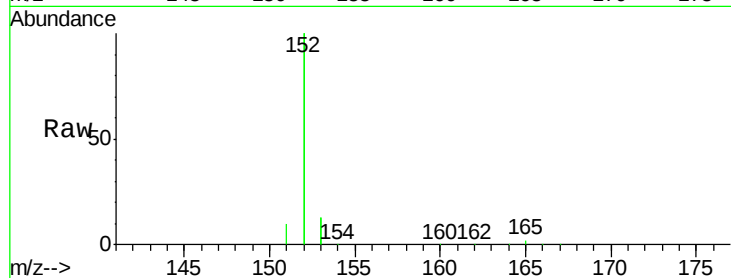
Tot Ion:152 Resp: 420832

Ion Ratio Lower Upper

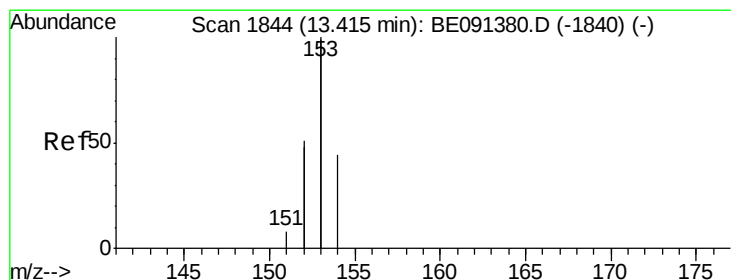
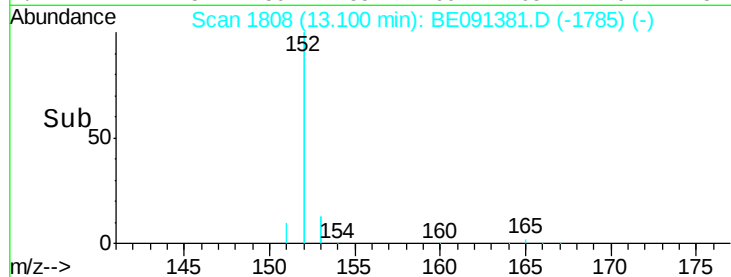
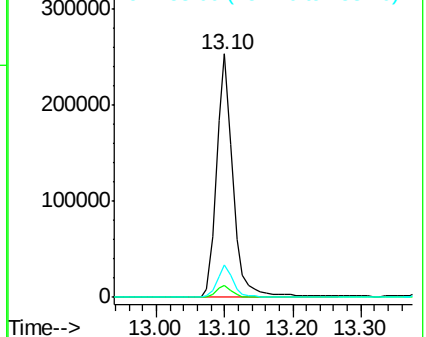
152 100

151 4.8 3.8 5.8

153 12.9 10.1 15.1



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: 1.87 ng

RT: 13.41 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

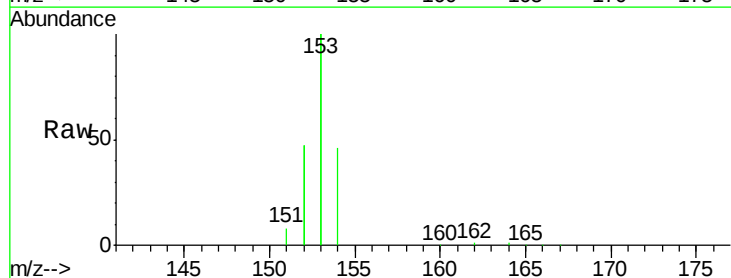
Tgt Ion:154 Resp: 72453

Ion Ratio Lower Upper

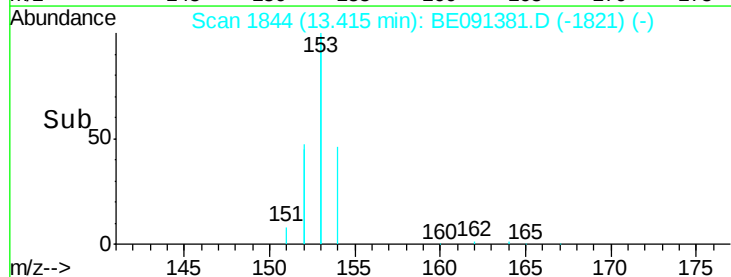
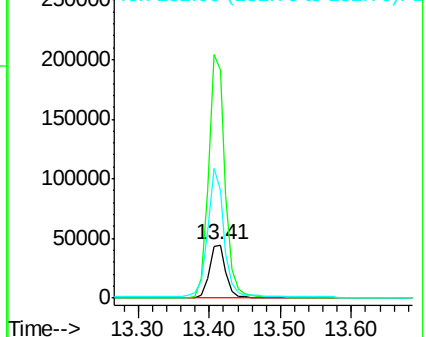
154 100

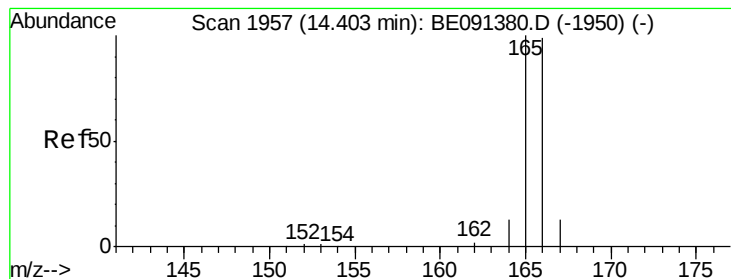
153 458.1 370.2 555.4

152 240.2 310.5 465.7#



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: 2.33 ng

RT: 14.40 min Scan# 1957

Delta R.T. -0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

Instrument :

BNA_E

ClientSampleId :

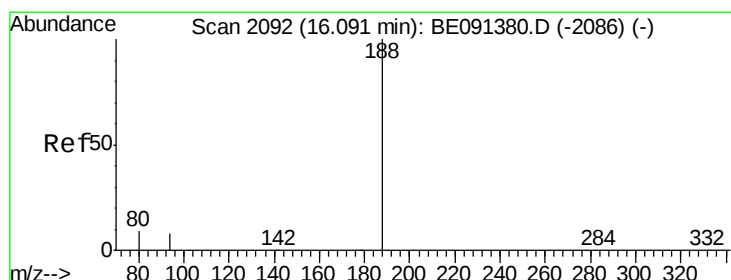
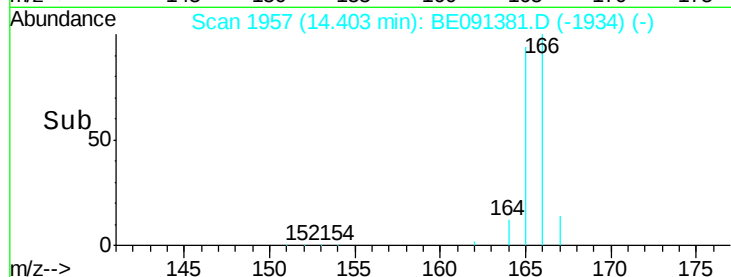
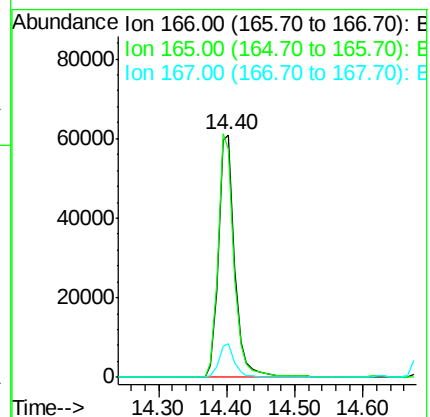
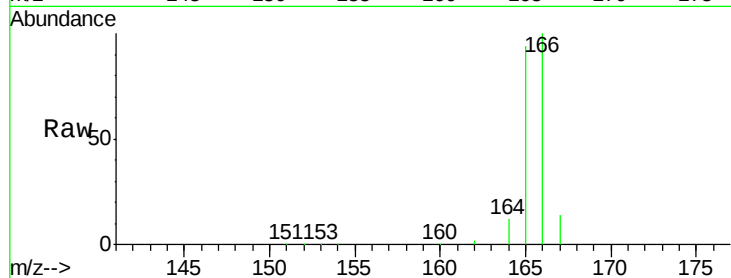
Tot Ion:166 Resp: 100277

Ion Ratio Lower Upper

166 100

165 98.8 83.0 124.6

167 13.5 11.1 16.7



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2091

Delta R.T. -0.01 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

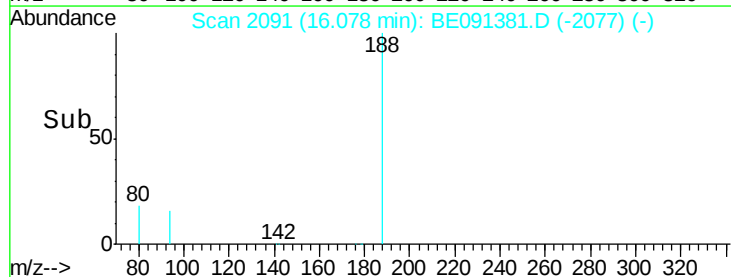
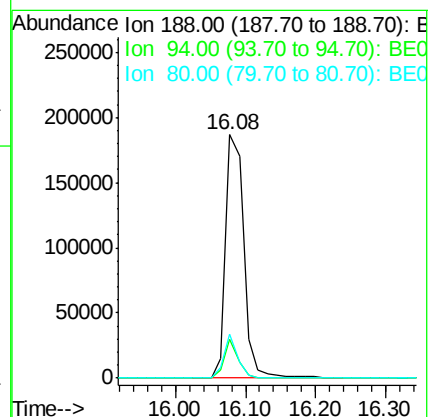
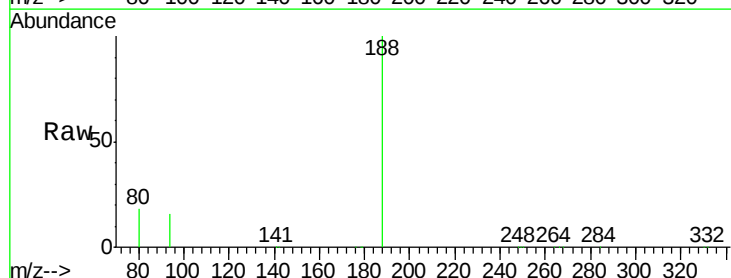
Tgt Ion:188 Resp: 335402

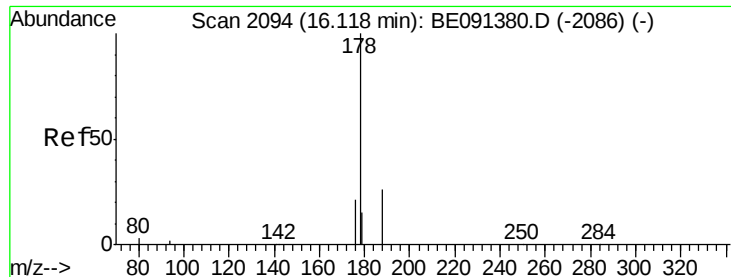
Ion Ratio Lower Upper

188 100

94 15.9 7.5 11.3#

80 17.9 8.2 12.2#





#15

Phenanthrene

Concen: 2.10 ng

RT: 16.12 min Scan# 2094

Delta R.T. -0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

Instrument :

BNA_E

ClientSampled :

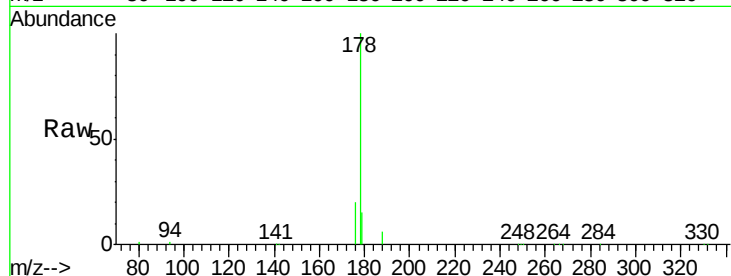
Tot Ion:178 Resp: 174121

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

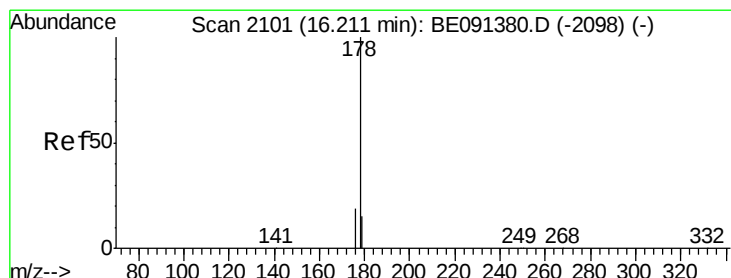
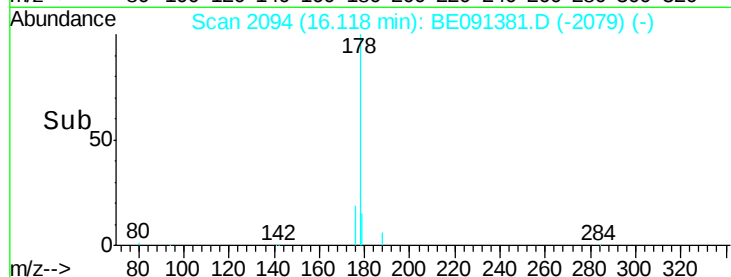
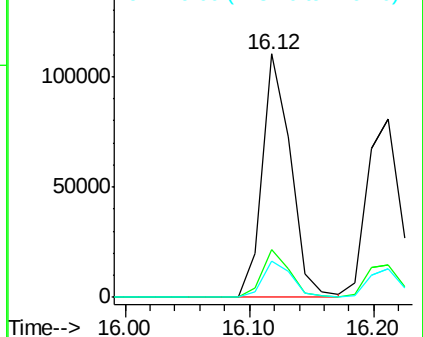
179 15.3 12.8 19.2



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: 2.74 ng

RT: 16.21 min Scan# 2101

Delta R.T. -0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

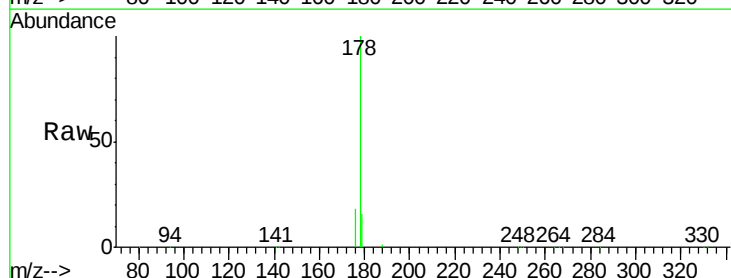
Tgt Ion:178 Resp: 159581

Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.6

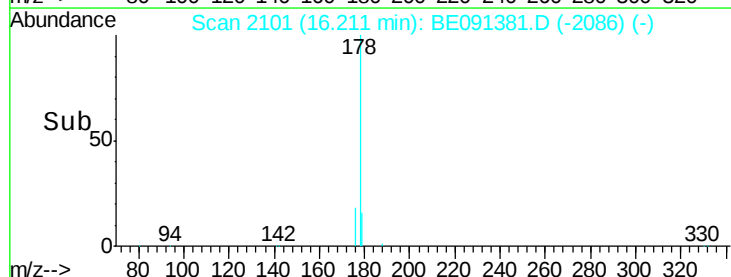
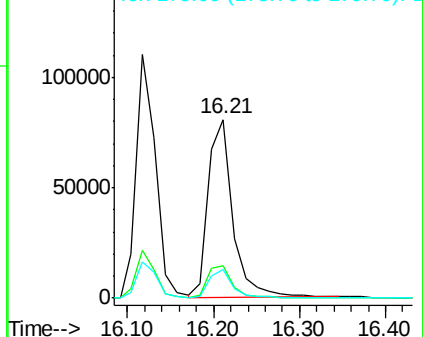
179 15.5 12.4 18.6

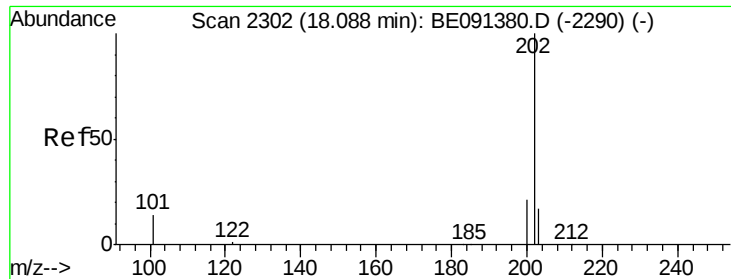


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

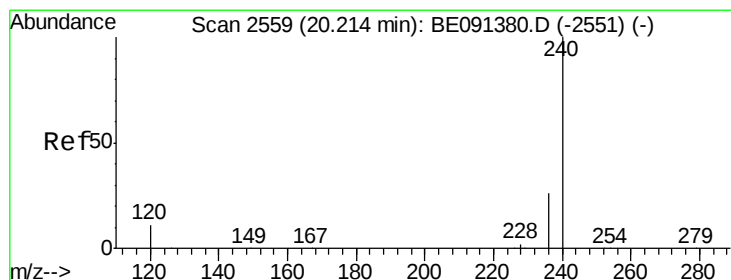
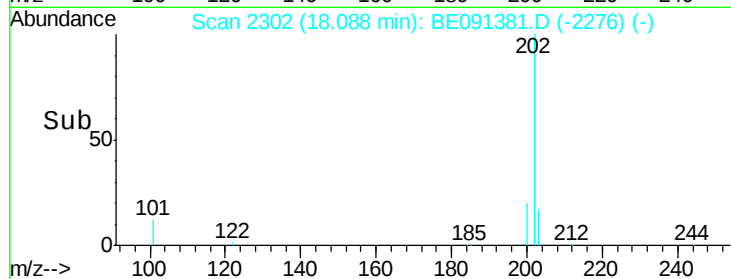
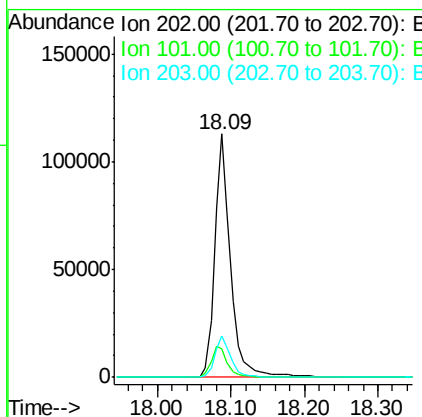
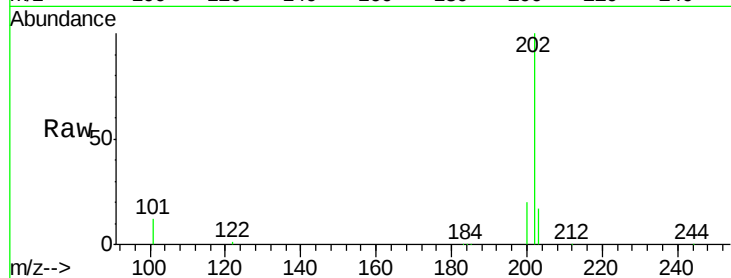




#17
 Fluoranthene
 Concen: 2.84 ng
 RT: 18.09 min Scan# 2302
 Delta R.T. -0.00 min
 Lab File: BE091381.D
 Acq: 2 Feb 2016 17:19

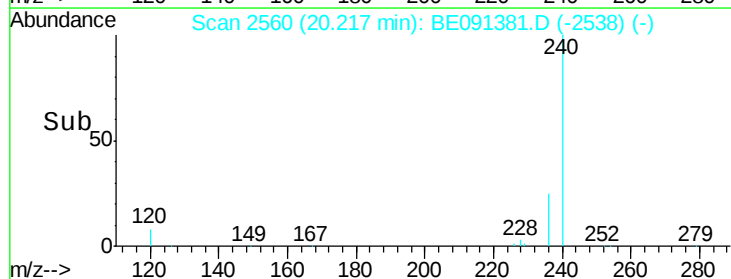
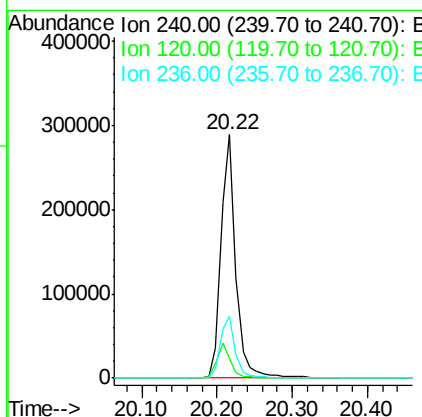
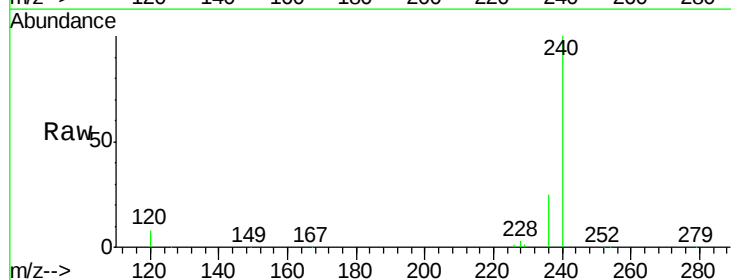
Instrument :
 BNA_E
 ClientSampleId :

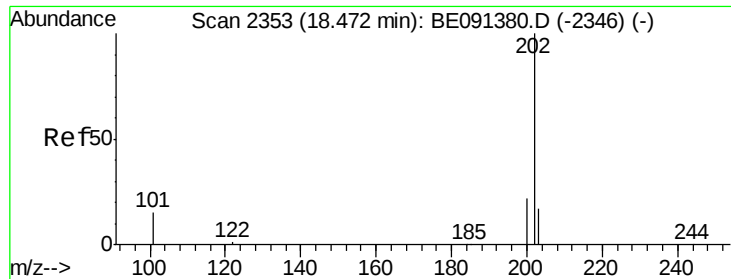
Tot Ion	Ratio	Lower	Upper
202	100		
101	13.5	11.0	16.4
203	17.3	13.9	20.9



#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.22 min Scan# 2560
 Delta R.T. 0.00 min
 Lab File: BE091381.D
 Acq: 2 Feb 2016 17:19

Tgt Ion	Ratio	Lower	Upper
240	100		
120	8.2	12.6	19.0#
236	25.3	22.7	34.1





#19

Pvrene

Concen: 3.04 ng

RT: 18.47 min Scan# 2353

Delta R.T. -0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

Instrument :

BNA_E

ClientSampleId :

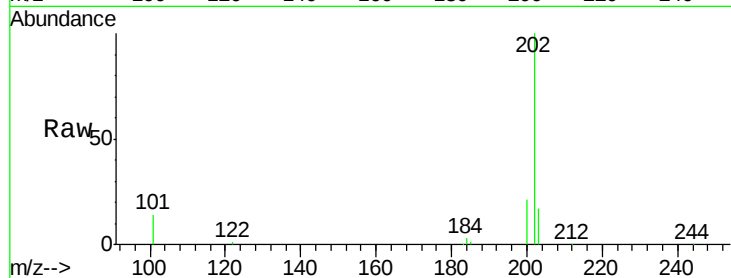
Tot Ion:202 Resp: 182299

Ion Ratio Lower Upper

202 100

200 21.1 17.2 25.8

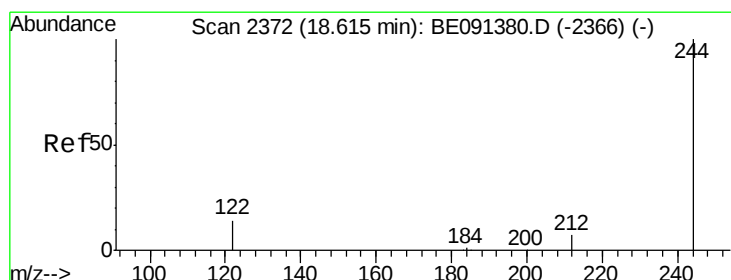
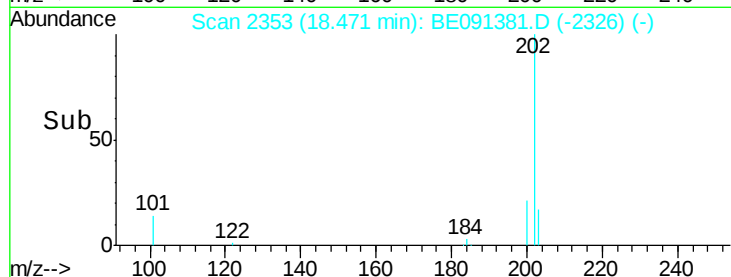
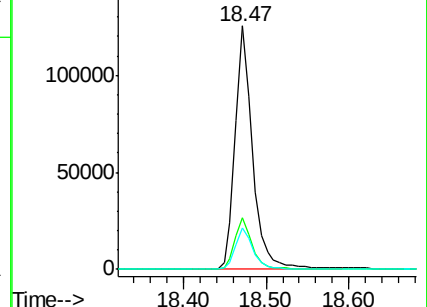
203 17.4 14.2 21.4



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: 3.36 ng

RT: 18.61 min Scan# 2372

Delta R.T. -0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

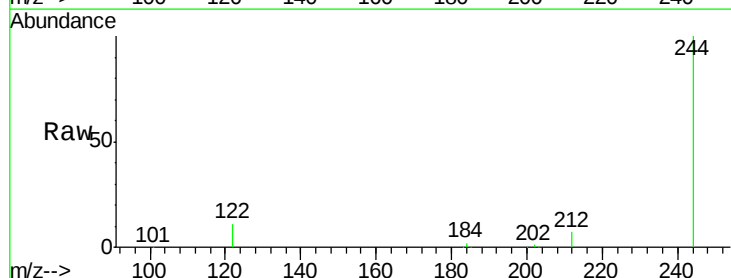
Tgt Ion:244 Resp: 125261

Ion Ratio Lower Upper

244 100

212 7.3 7.0 10.4

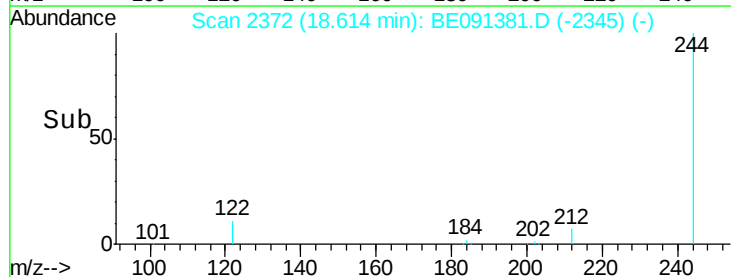
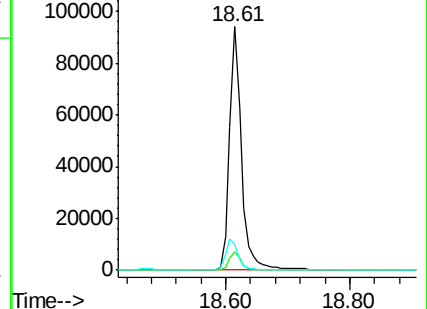
122 10.6 8.5 12.7

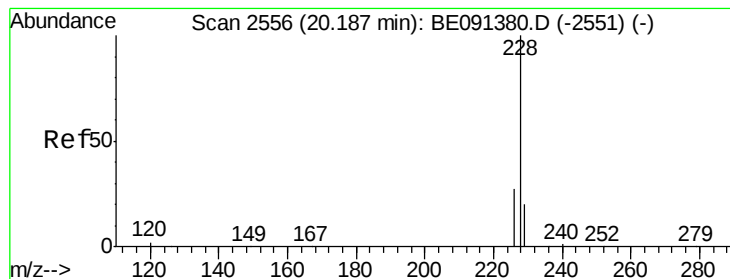


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 2.82 ng

RT: 20.19 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

Instrument :

BNA_E

ClientSampleId :

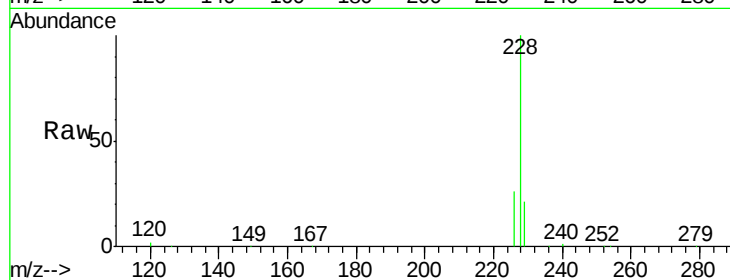
Tot Ion:228 Resp: 154537

Ion Ratio Lower Upper

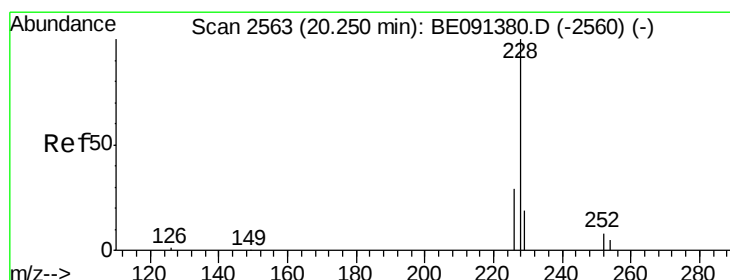
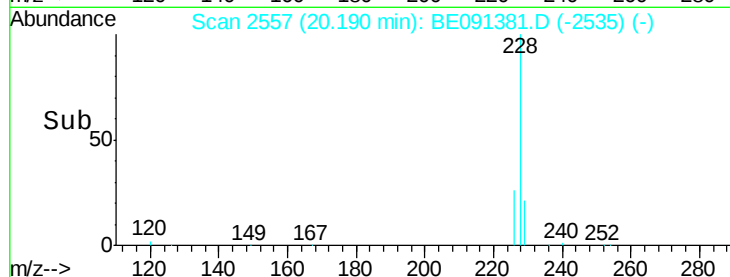
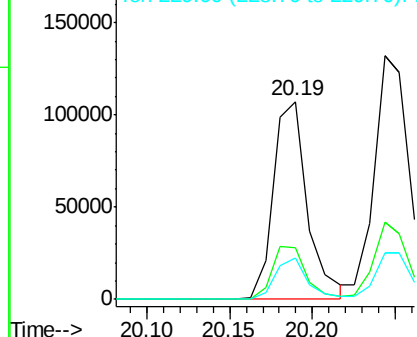
228 100

226 25.9 22.5 33.7

229 20.7 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: 2.15 ng

RT: 20.24 min Scan# 2563

Delta R.T. -0.01 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

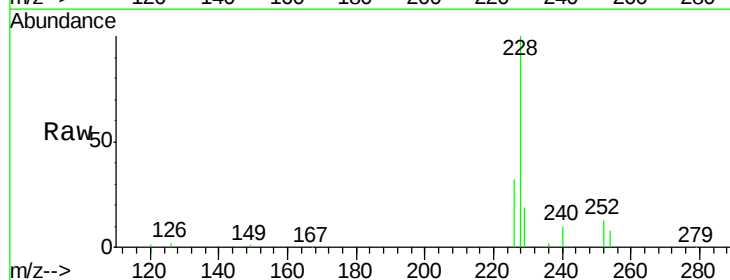
Tgt Ion:228 Resp: 205481

Ion Ratio Lower Upper

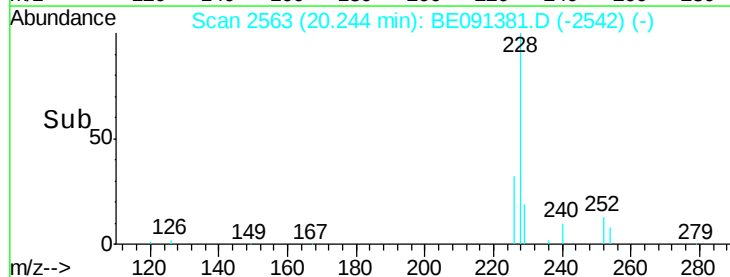
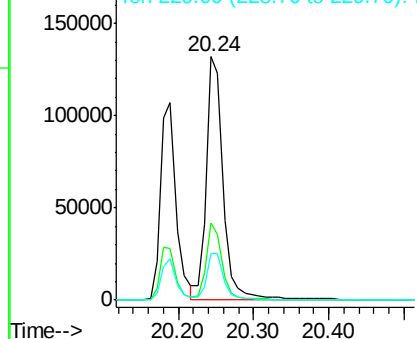
228 100

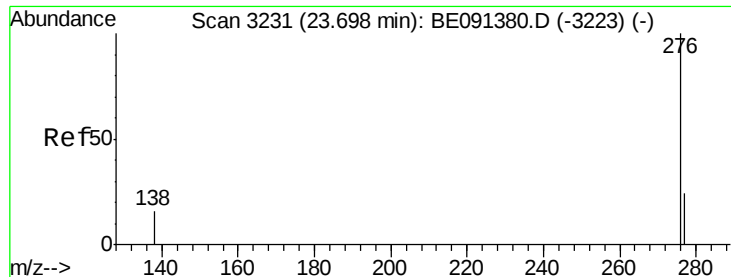
226 31.7 23.7 35.5

229 19.0 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

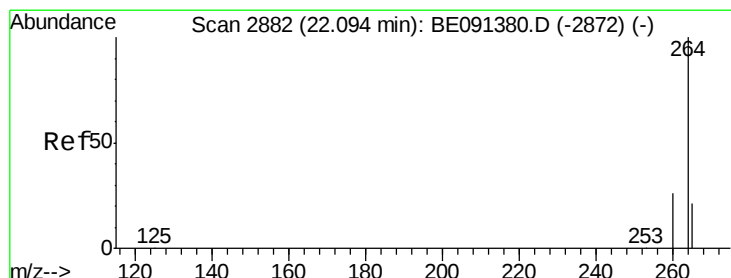
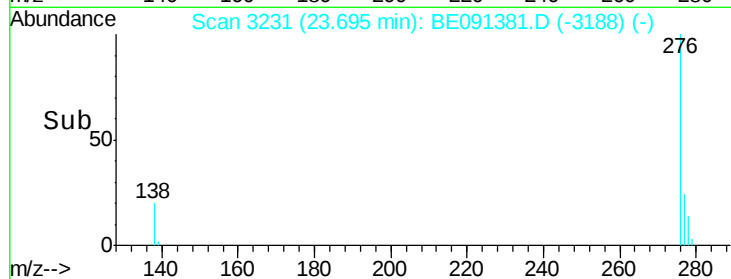
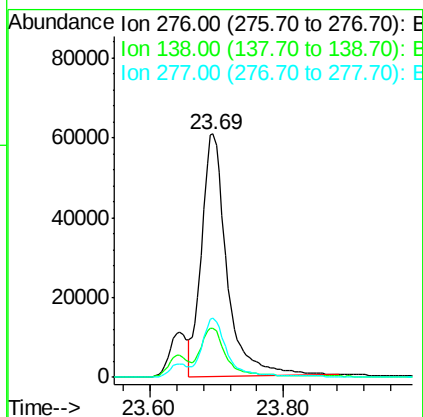
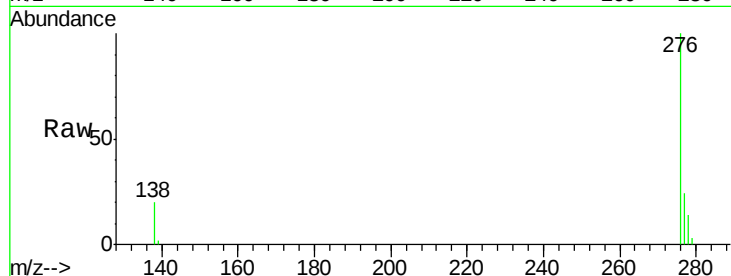




#23
Indeno(1,2,3-cd)pyrene
Concen: 2.56 ng
RT: 23.69 min Scan# 3231
Delta R.T. -0.00 min
Lab File: BE091381.D
Acq: 2 Feb 2016 17:19

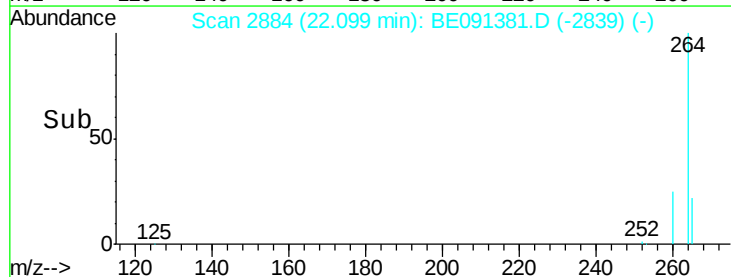
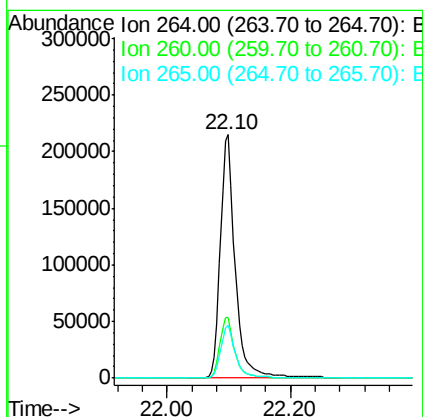
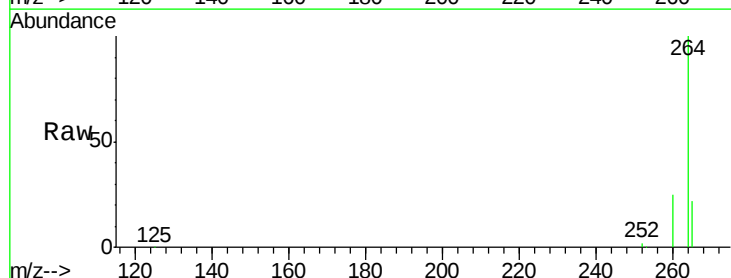
Instrument :
BNA_E
ClientSampleId :

Tot Ion:276 Resp: 159487
Ion Ratio Lower Upper
276 100
138 20.5 18.6 27.8
277 24.1 16.5 24.7



#24
Perylene-d12
Concen: 5.00 ng
RT: 22.10 min Scan# 2884
Delta R.T. 0.00 min
Lab File: BE091381.D
Acq: 2 Feb 2016 17:19

Tgt Ion:264 Resp: 360641
Ion Ratio Lower Upper
264 100
260 24.9 20.4 30.6
265 22.0 17.2 25.8





#25

Benzo(b)fluoranthene

Concen: 2.60 ng

RT: 21.54 min Scan# 2762

Delta R.T. -0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

Instrument :

BNA_E

ClientSampleId :

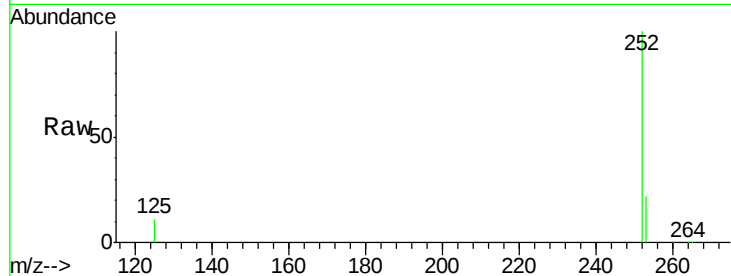
Tot Ion:252 Resp: 157532

Ion Ratio Lower Upper

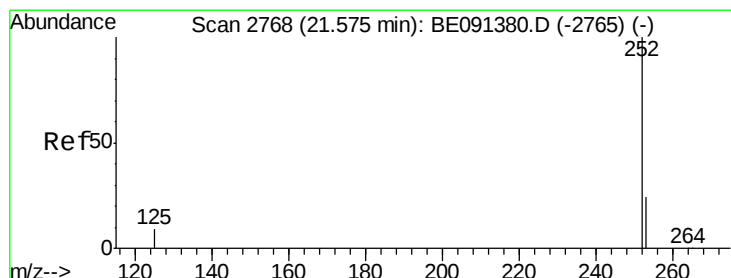
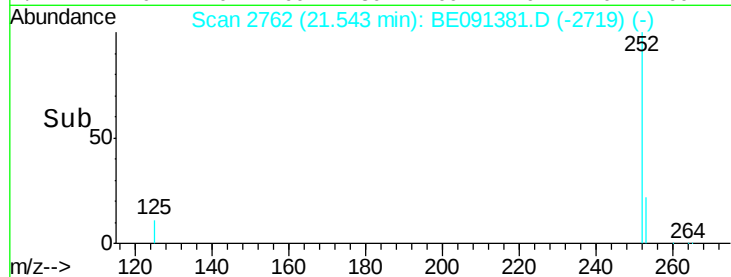
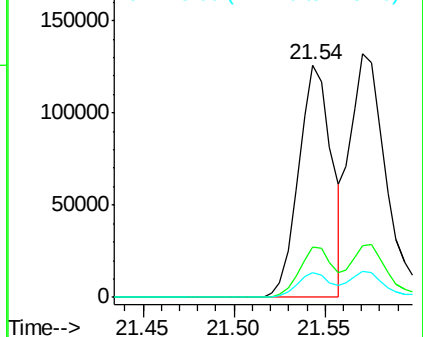
252 100

253 21.7 17.4 26.2

125 10.8 11.0 16.6#



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: 2.71 ng

RT: 21.57 min Scan# 2768

Delta R.T. -0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

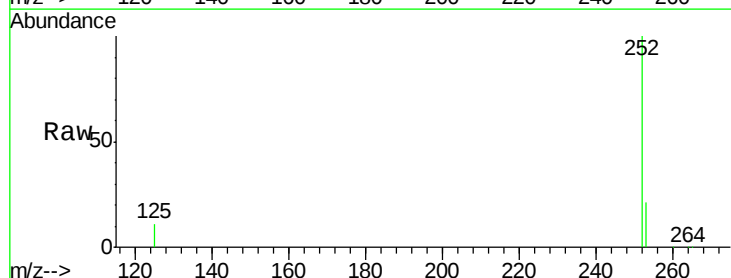
Tgt Ion:252 Resp: 191991

Ion Ratio Lower Upper

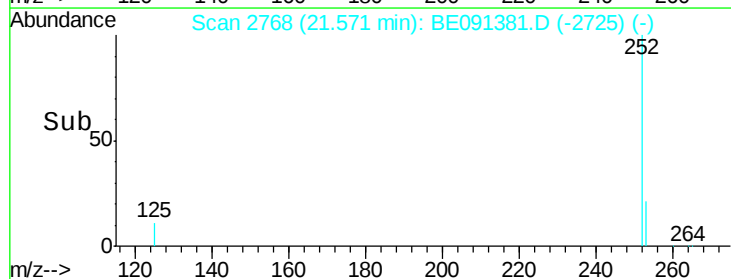
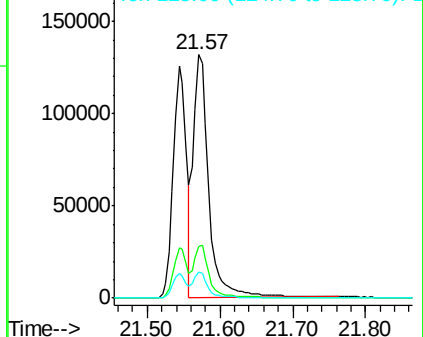
252 100

253 21.5 17.5 26.3

125 10.8 11.3 16.9#



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: 2.38 ng

RT: 22.00 min Scan# 2863

Delta R.T. 0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

Instrument :

BNA_E

ClientSampleId :

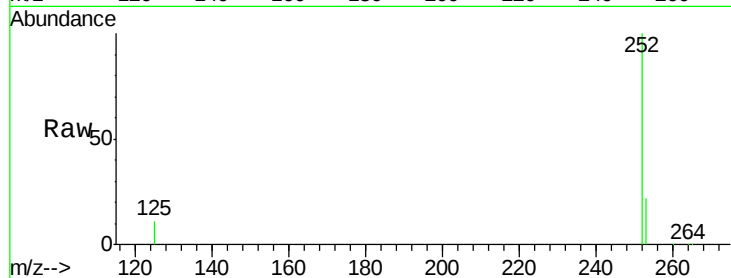
Tot Ion:252 Resp: 147173

Ion Ratio Lower Upper

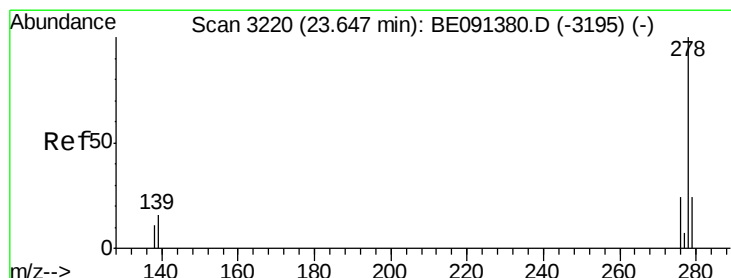
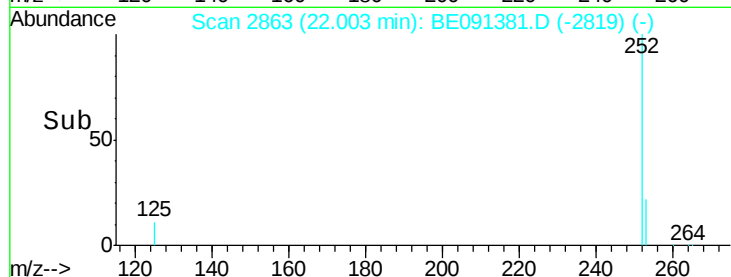
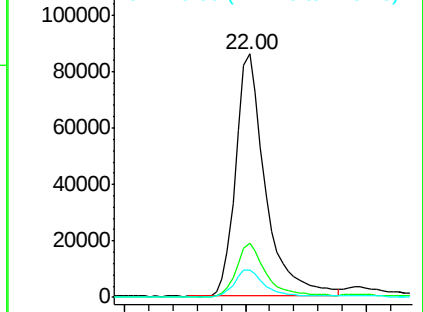
252 100

253 22.2 18.1 27.1

125 11.4 12.2 18.4#



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



#28

Dibenzo(a,h)anthracene

Concen: 2.95 ng

RT: 23.64 min Scan# 3220

Delta R.T. -0.00 min

Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

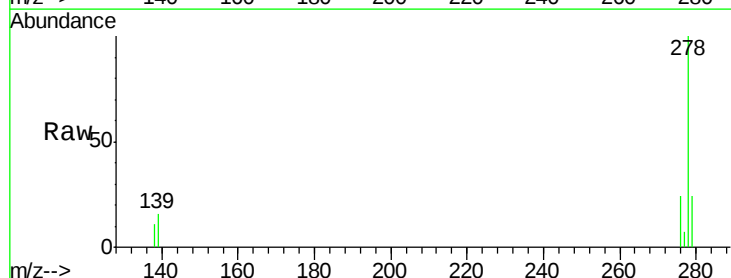
Tgt Ion:278 Resp: 135558

Ion Ratio Lower Upper

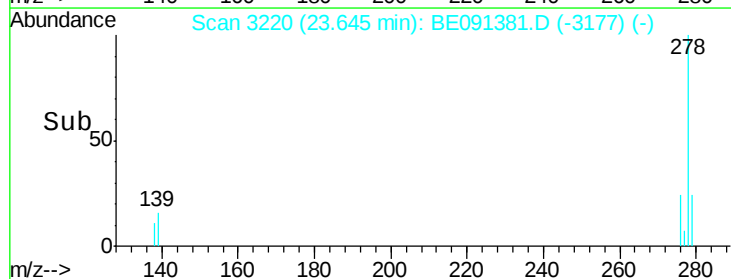
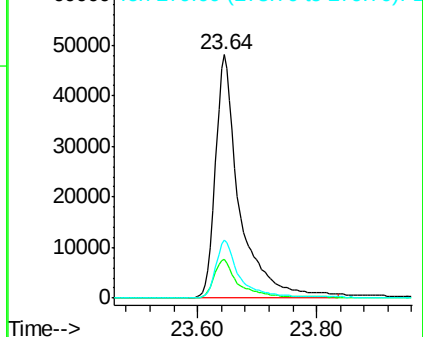
278 100

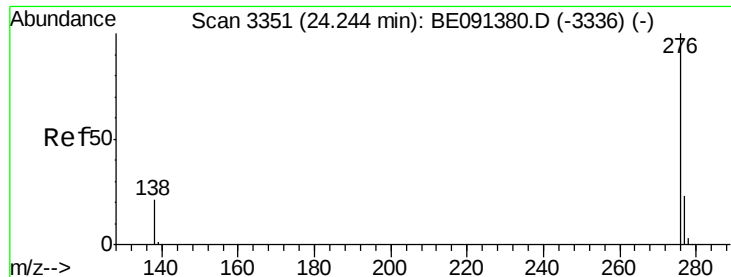
139 16.0 16.3 24.5#

279 23.6 19.4 29.2



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#29

Benzo(a,h,i)perylene

Concen: 2.80 ng

RT: 24.24 min Scan# 3351

Delta R.T. -0.00 min

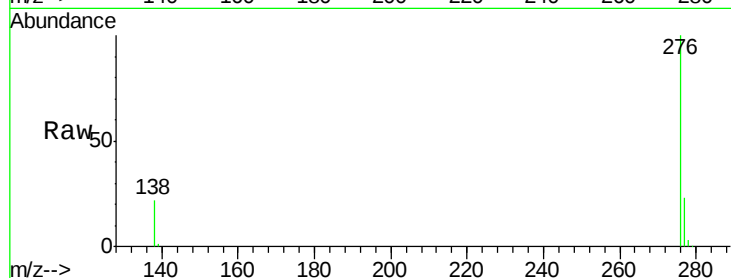
Lab File: BE091381.D

Acq: 2 Feb 2016 17:19

Instrument :

BNA_E

ClientSampleId :



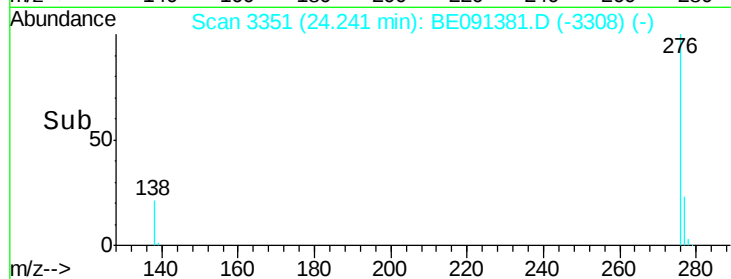
Tot Ion: 276 Resp: 164074

Ion Ratio Lower Upper

276 100

277 23.2 19.8 29.6

138 21.6 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

