

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020216\
 Data File : BE091378.D
 Acq On : 2 Feb 2016 15:29
 Operator : UM/IZ
 Sample : SSTDICC0.5
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.5

Quant Time: Feb 02 17:49:39 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	6.88	152	46200	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	210809	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	126759	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	331230	5.00	ng	0.00
18) Chrysene-d12	20.22	240	360321	5.00	ng	0.00
24) Perylene-d12	22.10	264	337246	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.98	112	3572	0.73	ng	0.03
3) Phenol-d6	6.59	99	5590	0.71	ng	0.02
5) Nitrobenzene-d5	8.19	82	4170	0.34	ng	0.02
9) 2,4,6-Tribromophenol	14.92	330	1344	0.52	ng	0.01
10) 2-Fluorobiphenyl	12.02	172	15892	0.58	ng	0.00
20) Terphenyl-d14	18.62	244	23811	0.70	ng	0.00

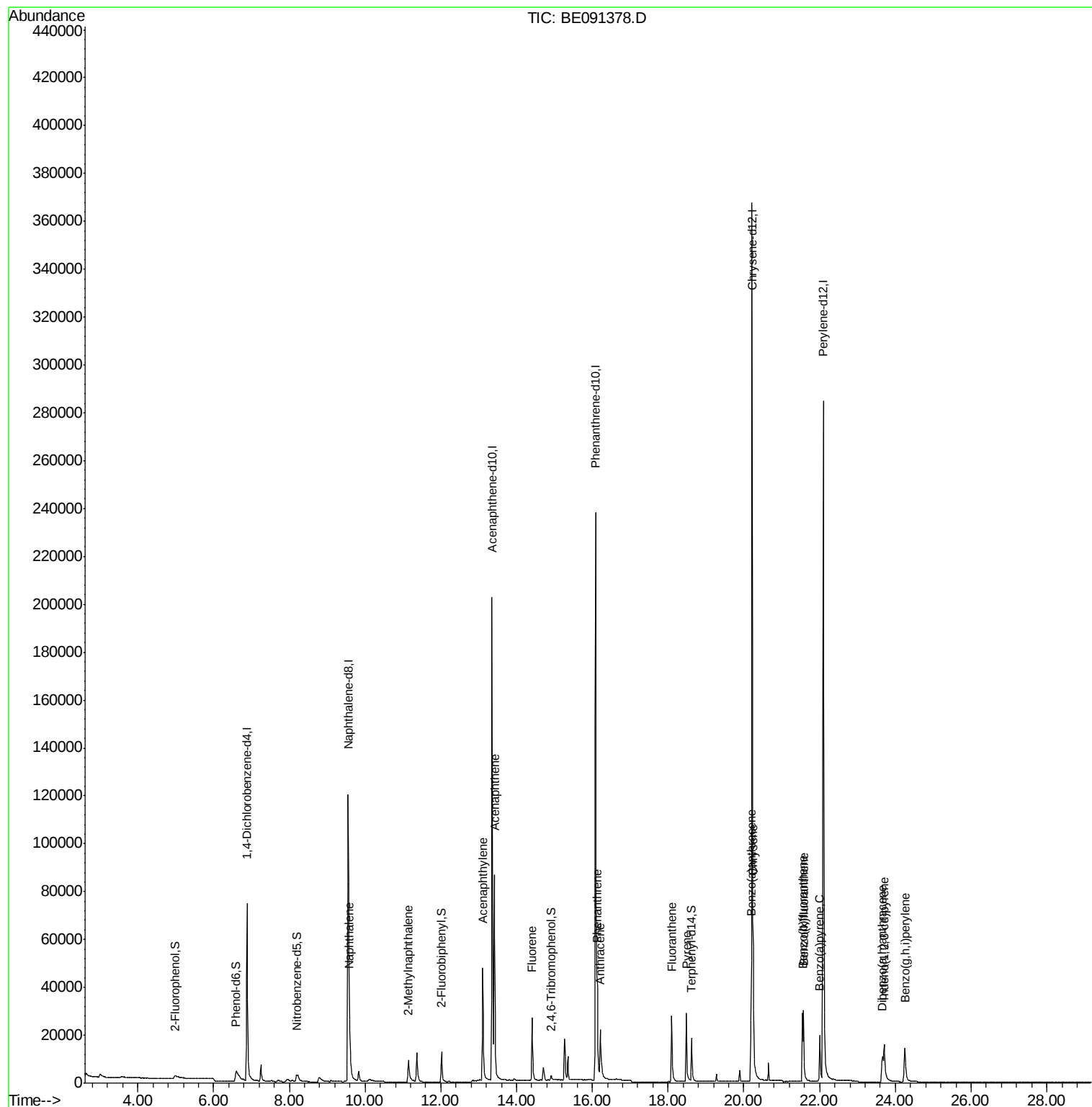
Target Compounds				Qvalue		
6) Naphthalene	9.59	128	23114	0.51	ng	100
7) 2-Methylnaphthalene	11.14	142	11188	0.64	ng	93
11) Acenaphthylene	13.11	152	78446	0.47	ng	100
12) Acenaphthene	13.42	154	16612	0.46	ng	# 71
13) Fluorene	14.41	166	21133	0.53	ng	96
15) Phenanthrene	16.13	178	41675	0.51	ng	99
16) Anthracene	16.21	178	32091	0.56	ng	99
17) Fluoranthene	18.10	202	33837	0.57	ng	99
19) Pyrene	18.48	202	34068	0.62	ng	99
21) Benzo(a)anthracene	20.19	228	27156	0.54	ng	98
22) Chrysene	20.24	228	47254	0.54	ng	97
23) Indeno(1,2,3-cd)pyrene	23.71	276	28974m	0.51	ng	
25) Benzo(b)fluoranthene	21.55	252	30862	0.55	ng	# 96
26) Benzo(k)fluoranthene	21.58	252	36389	0.55	ng	# 96
27) Benzo(a)pyrene	22.00	252	27166	0.47	ng	# 96
28) Dibenzo(a,h)anthracene	23.65	278	22562	0.53	ng	97
29) Benzo(g,h,i)perylene	24.25	276	31235	0.57	ng	# 93

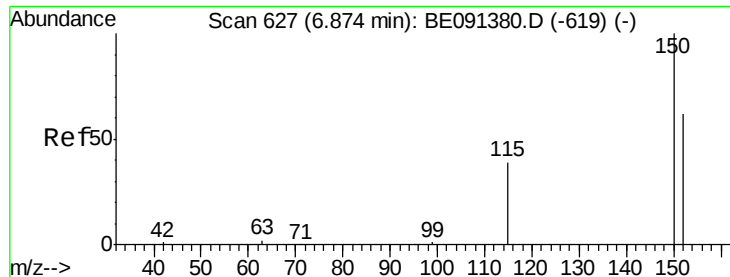
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.88 min Scan# 628

Delta R.T. 0.01 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

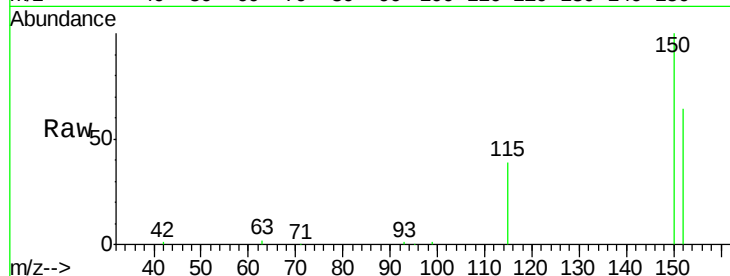
Tot Ion:152 Resp: 46200

Ion Ratio Lower Upper

152 100

150 155.7 121.6 182.4

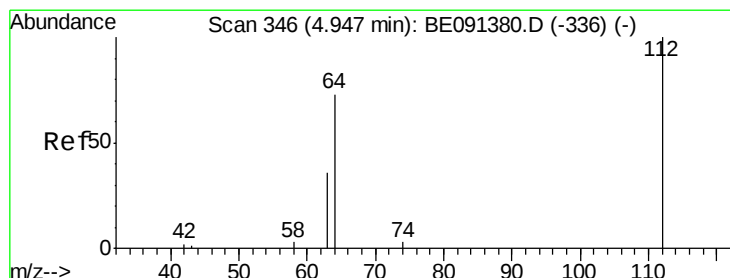
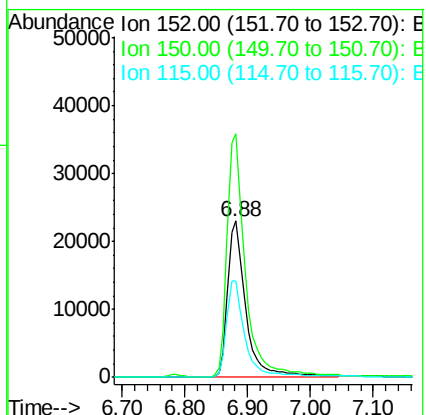
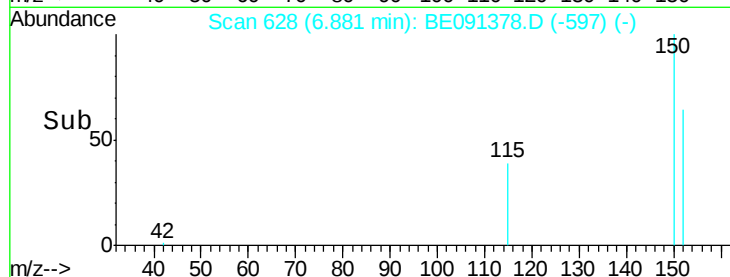
115 61.3 50.6 75.8



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: 0.73 ng

RT: 4.98 min Scan# 351

Delta R.T. 0.03 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

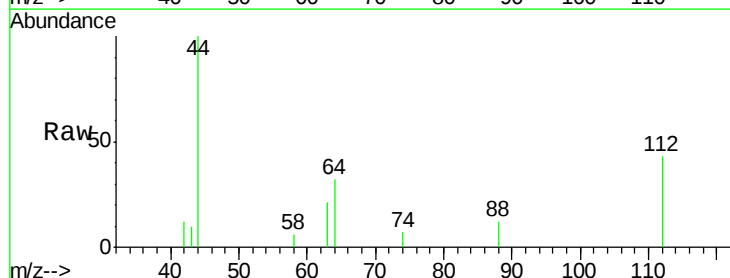
Tgt Ion:112 Resp: 3572

Ion Ratio Lower Upper

112 100

64 72.7 57.4 86.0

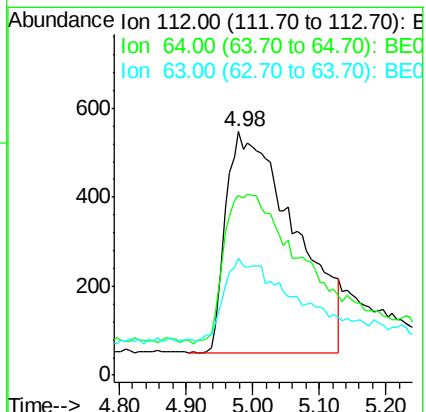
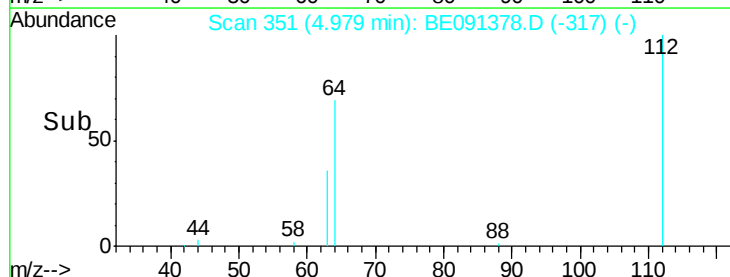
63 12.8 32.2 48.2#

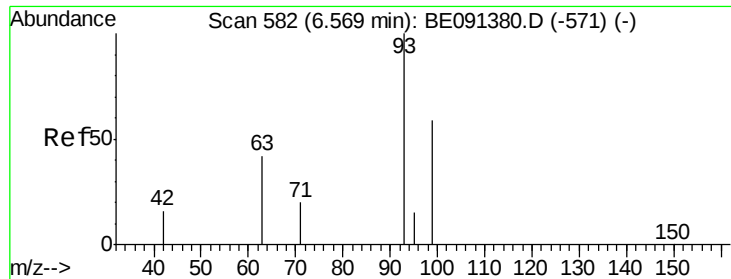


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 0.71 ng

RT: 6.59 min Scan# 585

Delta R.T. 0.02 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.5

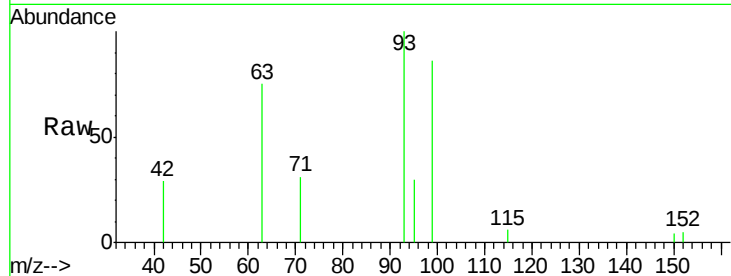
Tot Ion: 99 Resp: 5590

Ion Ratio Lower Upper

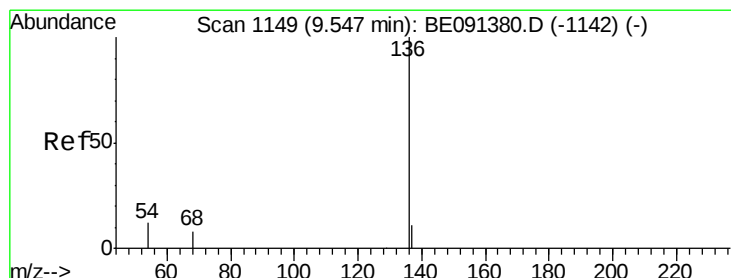
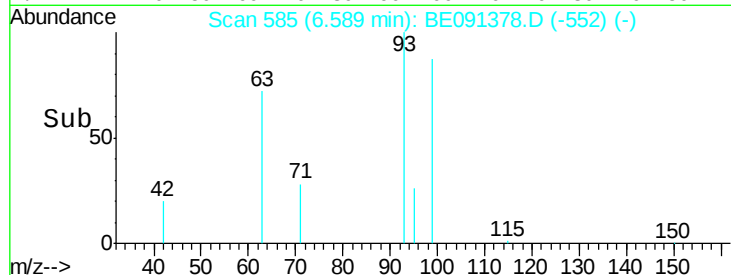
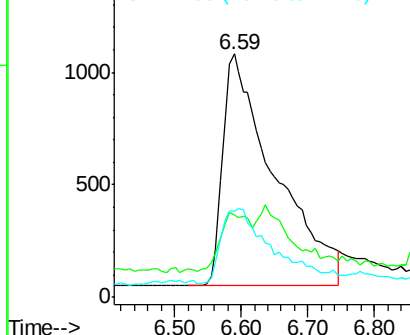
99 100

42 14.0 22.9 34.3#

71 32.1 35.4 53.2#



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Tgt Ion: 136 Resp: 210809

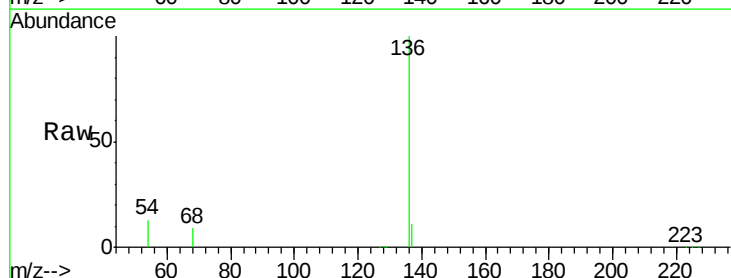
Ion Ratio Lower Upper

136 100

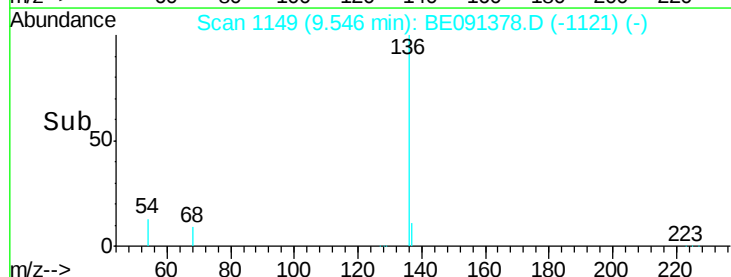
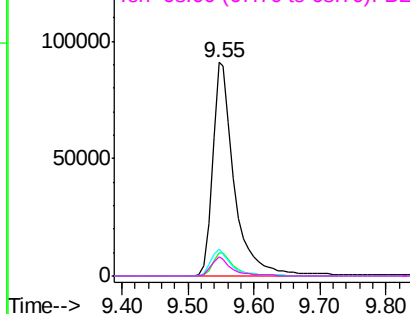
137 10.8 8.7 13.1

54 12.7 9.8 14.6

68 8.8 6.6 10.0



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0





#5

Nitrobenzene-d5

Concen: 0.34 ng

RT: 8.19 min Scan# 866

Delta R.T. 0.02 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

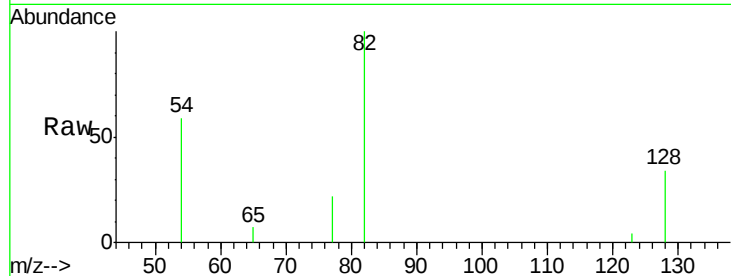
Tot Ion: 82 Resp: 4170

Ion Ratio Lower Upper

82 100

128 33.5 24.6 36.8

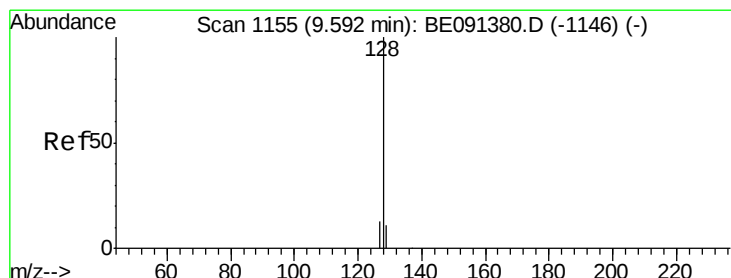
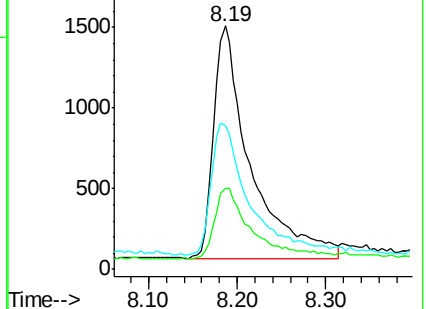
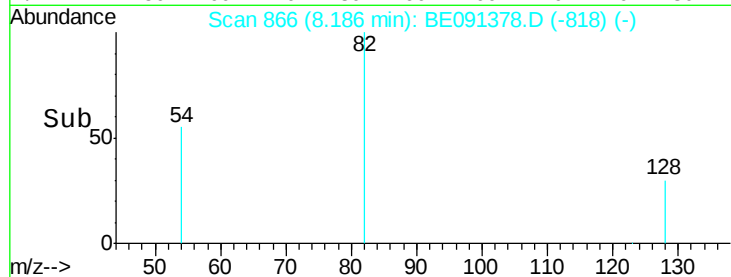
54 58.9 52.7 79.1



Abundance Ion 82.00 (81.70 to 82.70): BE091378.D (-818) (-)

Ion 128.00 (127.70 to 128.70): BE091378.D (-818) (-)

Ion 54.00 (53.70 to 54.70): BE091378.D (-818) (-)



#6

Naphthalene

Concen: 0.51 ng

RT: 9.59 min Scan# 1155

Delta R.T. -0.00 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

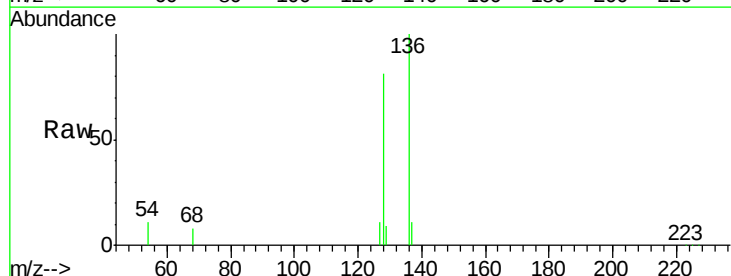
Tgt Ion: 128 Resp: 23114

Ion Ratio Lower Upper

128 100

129 11.5 9.3 13.9

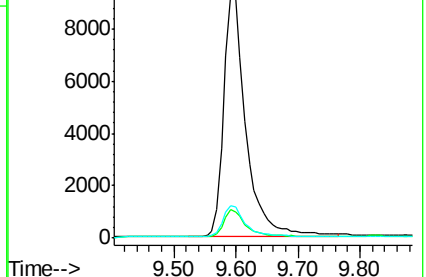
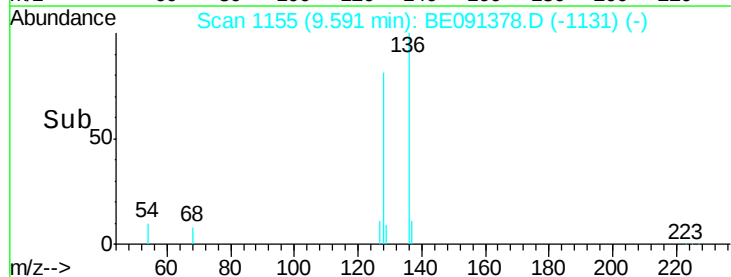
127 13.3 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): BE091378.D (-1131) (-)

Ion 129.00 (128.70 to 129.70): BE091378.D (-1131) (-)

Ion 127.00 (126.70 to 127.70): BE091378.D (-1131) (-)





#7

2-Methylnaphthalene

Concen: 0.64 ng

RT: 11.14 min Scan# 1412

Delta R.T. 0.01 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.5

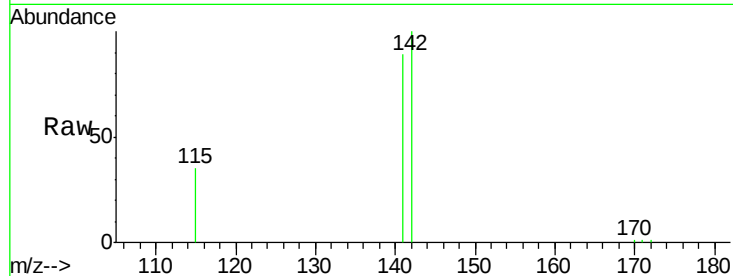
Tot Ion:142 Resp: 11188

Ion Ratio Lower Upper

142 100

141 89.1 74.5 111.7

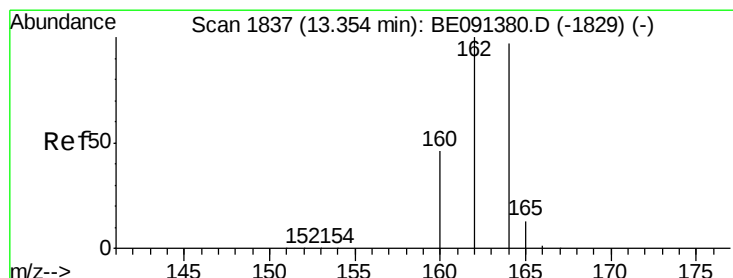
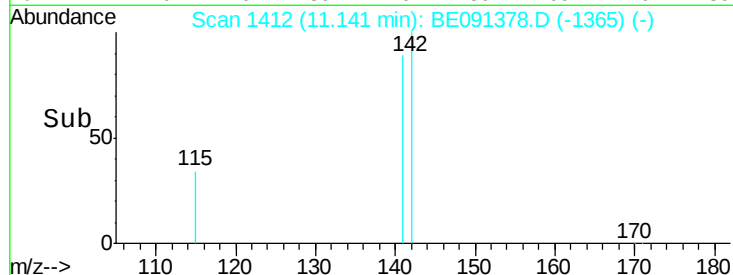
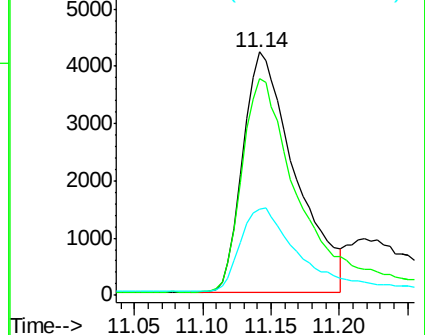
115 35.4 35.2 52.8



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: BE091378.D

Acq: 2 Feb 2016 15:29

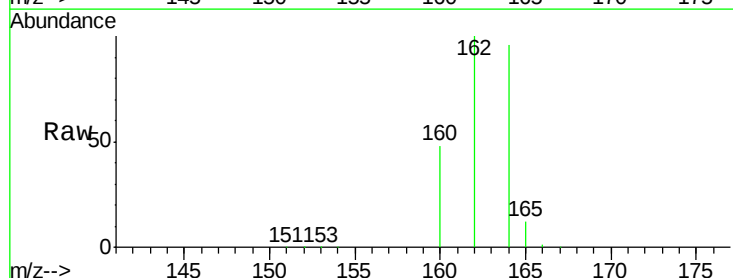
Tgt Ion:164 Resp: 126759

Ion Ratio Lower Upper

164 100

162 104.6 88.5 132.7

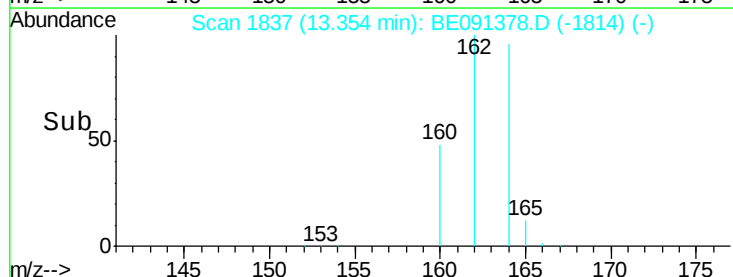
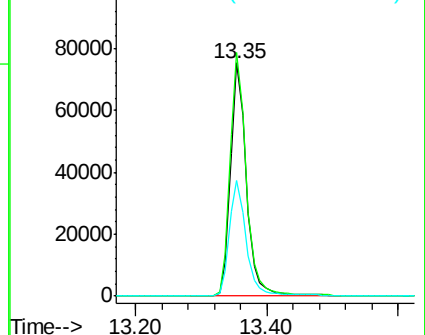
160 49.9 76.7 115.1#



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 0.52 ng

RT: 14.92 min Scan# 2004

Delta R.T. 0.01 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

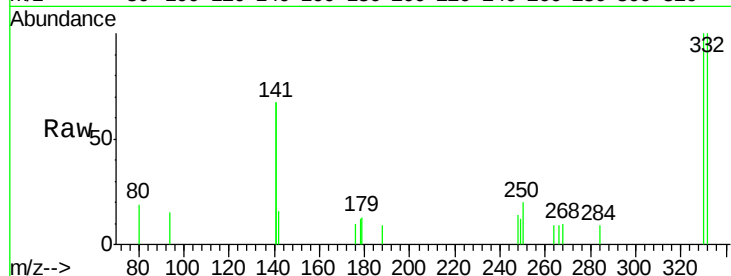
Tot Ion:330 Resp: 1344

Ion Ratio Lower Upper

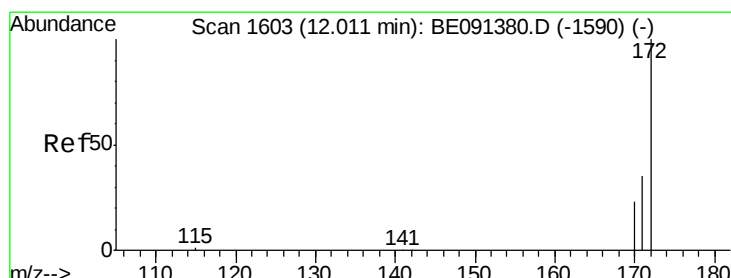
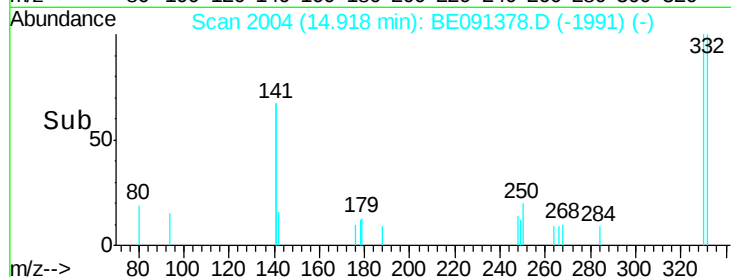
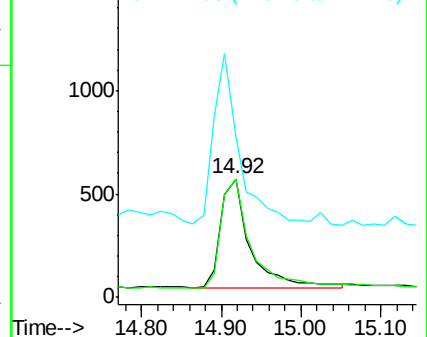
330 100

332 100.6 78.6 118.0

141 136.2 147.8 221.8#



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: 0.58 ng

RT: 12.02 min Scan# 1605

Delta R.T. 0.01 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

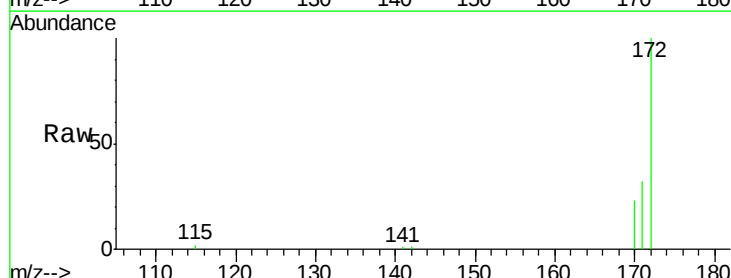
Tgt Ion:172 Resp: 15892

Ion Ratio Lower Upper

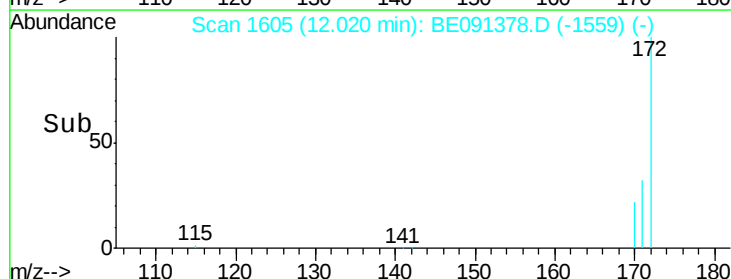
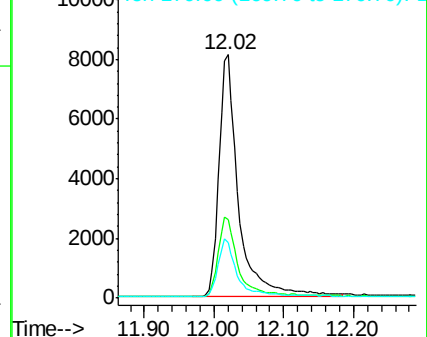
172 100

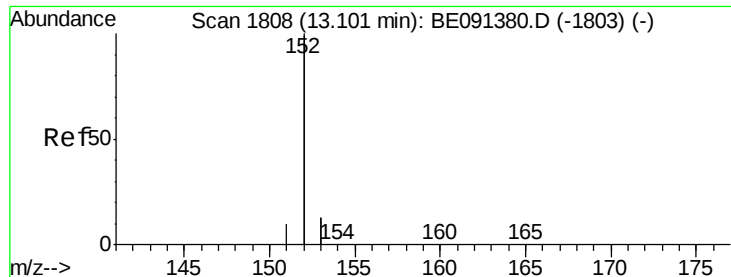
171 32.3 27.3 40.9

170 22.6 19.8 29.6



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





#11

Acenaphthylene

Concen: 0.47 ng

RT: 13.11 min Scan# 1809

Delta R.T. 0.01 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

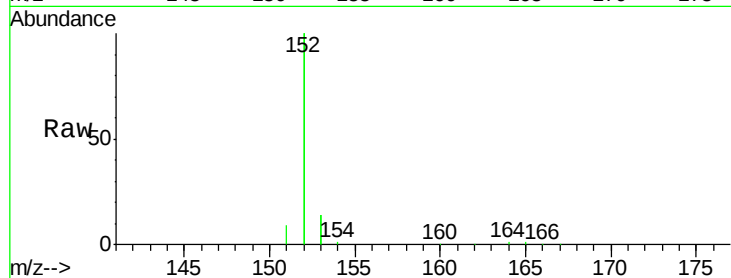
Tot Ion:152 Resp: 78446

Ion Ratio Lower Upper

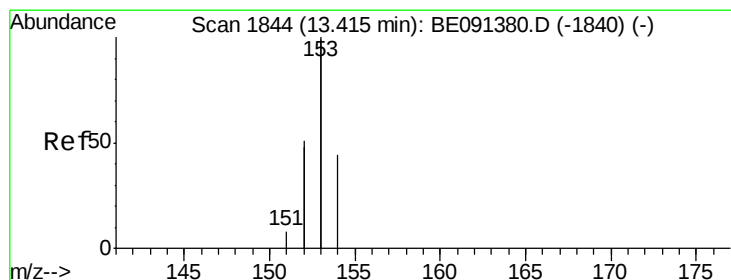
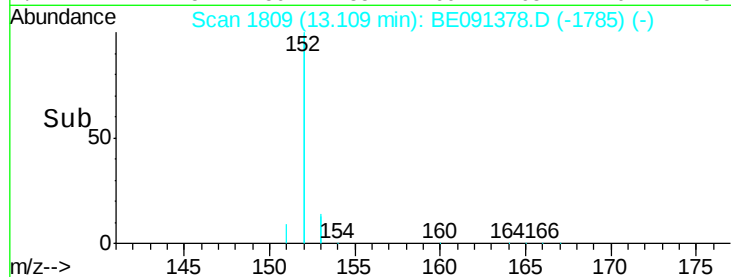
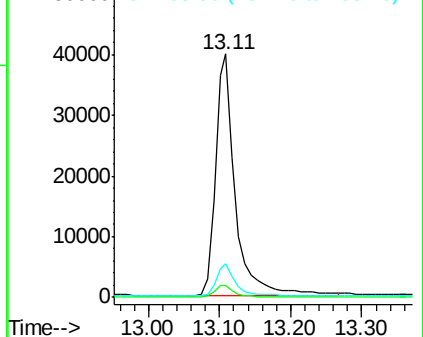
152 100

151 4.7 3.8 5.8

153 12.7 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: 0.46 ng

RT: 13.42 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

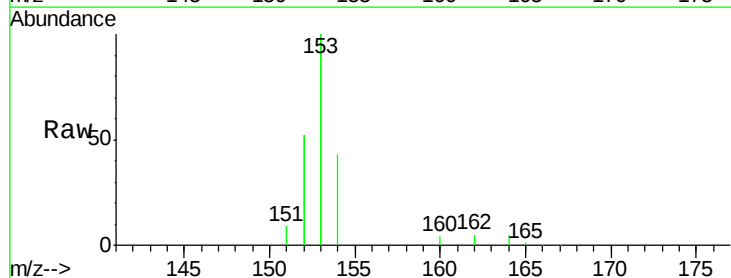
Tgt Ion:154 Resp: 16612

Ion Ratio Lower Upper

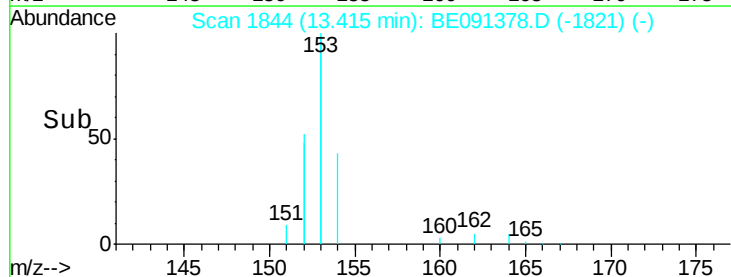
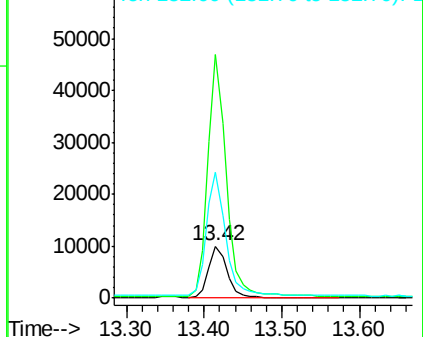
154 100

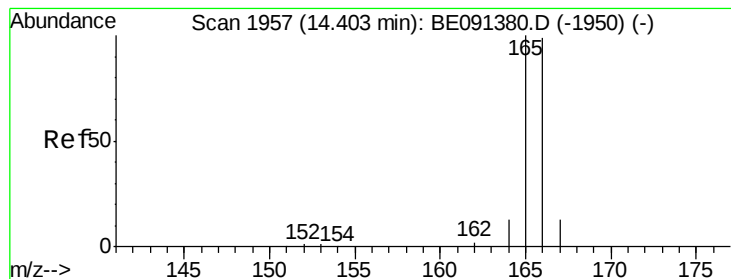
153 467.3 370.2 555.4

152 246.5 310.5 465.7#



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: 0.53 ng

RT: 14.41 min Scan# 1958

Delta R.T. 0.01 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

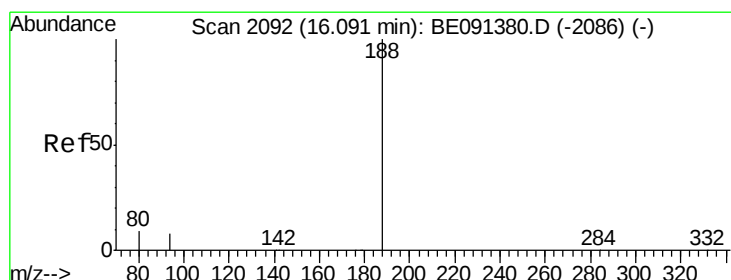
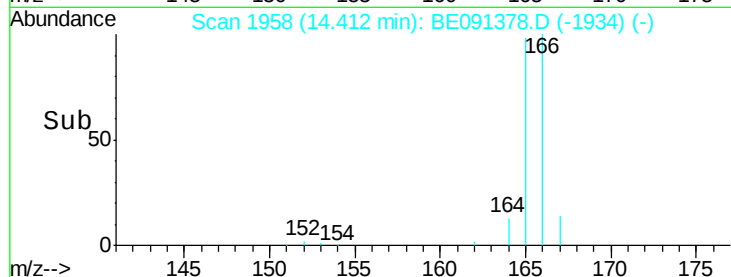
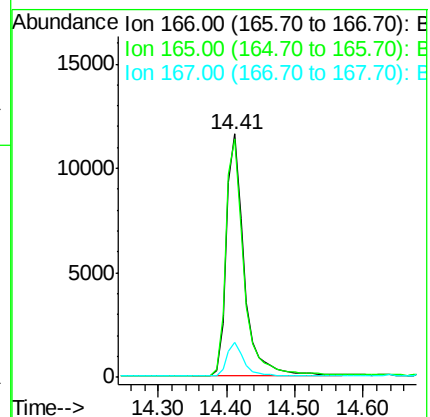
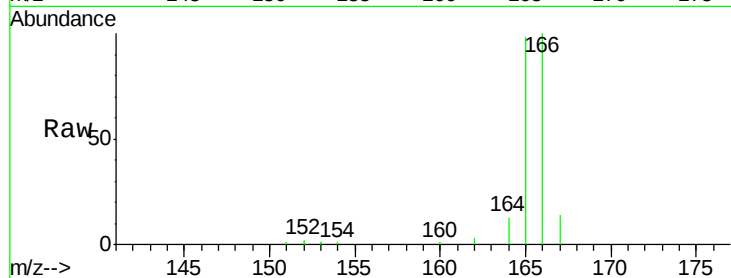
Tot Ion:166 Resp: 21133

Ion Ratio Lower Upper

166 100

165 98.8 83.0 124.6

167 13.4 11.1 16.7



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.09 min Scan# 2092

Delta R.T. -0.00 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

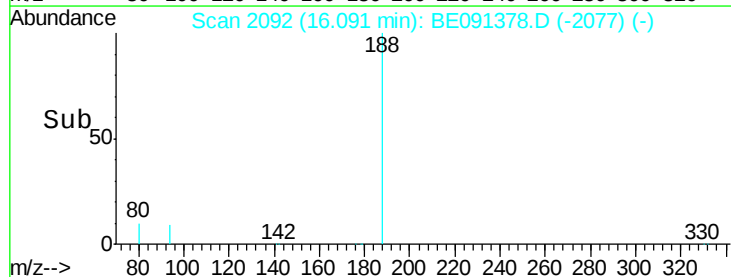
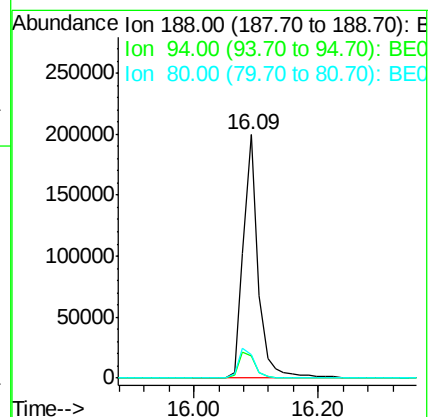
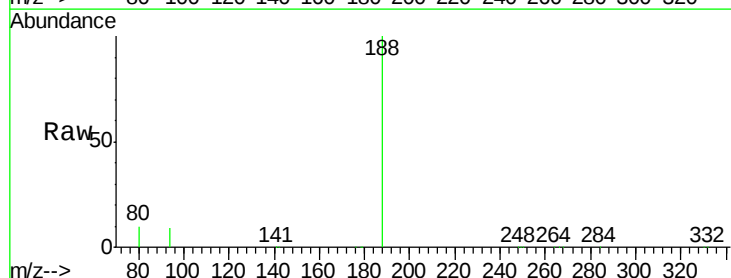
Tgt Ion:188 Resp: 331230

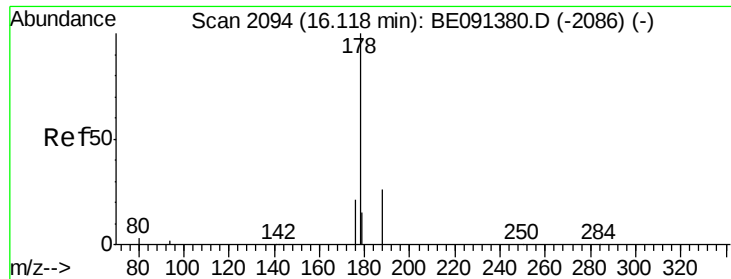
Ion Ratio Lower Upper

188 100

94 8.9 7.5 11.3

80 9.6 8.2 12.2





#15

Phenanthrene

Concen: 0.51 ng

RT: 16.13 min Scan# 2095

Delta R.T. 0.01 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Instrument :

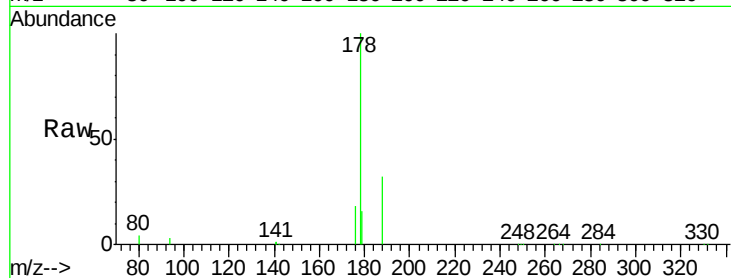
BNA_E

ClientSampleId :

SSTDIC0.5

Tot Ion:178 Resp: 41675

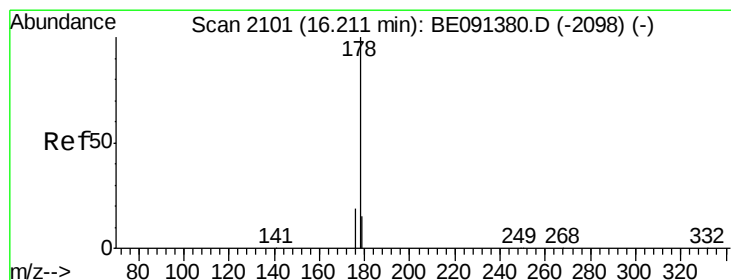
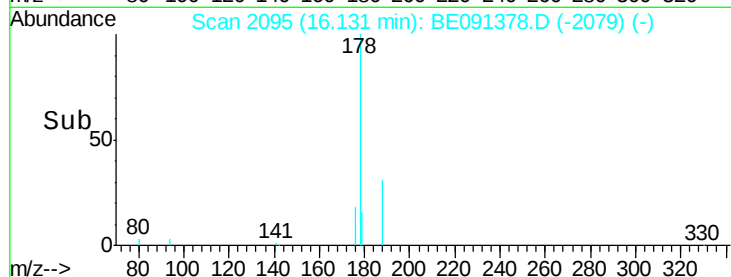
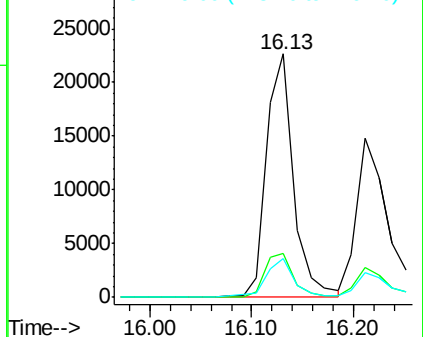
Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.9	12.8	19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#16

Anthracene

Concen: 0.56 ng

RT: 16.21 min Scan# 2101

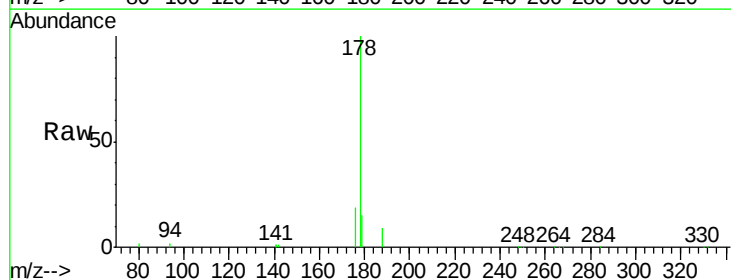
Delta R.T. -0.00 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Tgt Ion:178 Resp: 32091

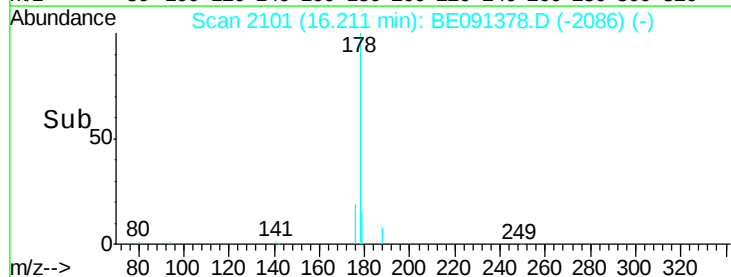
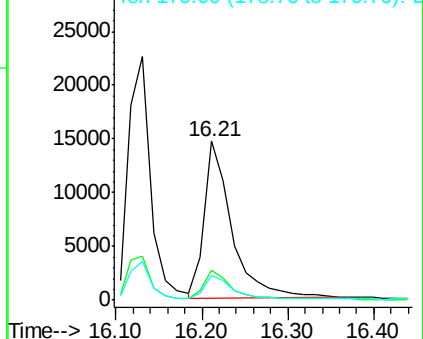
Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.6
179	16.0	12.4	18.6

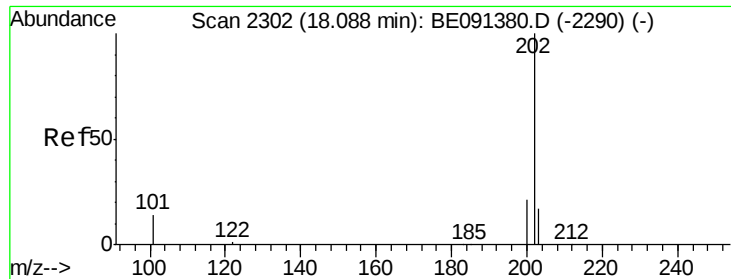


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

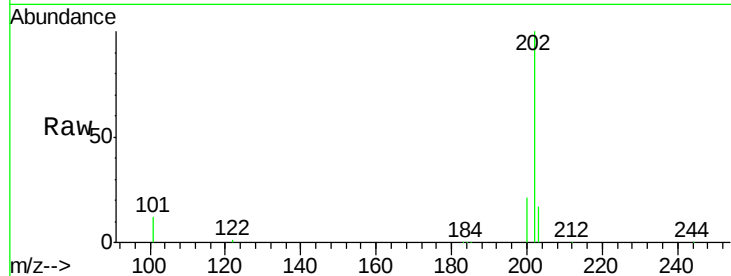




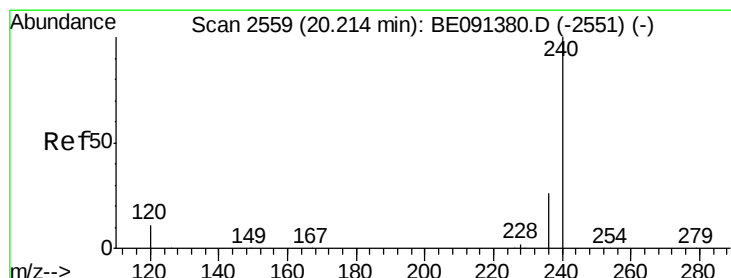
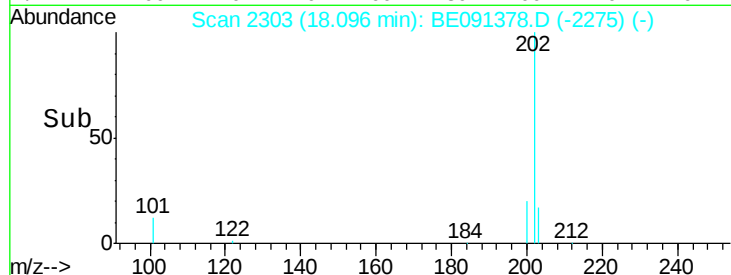
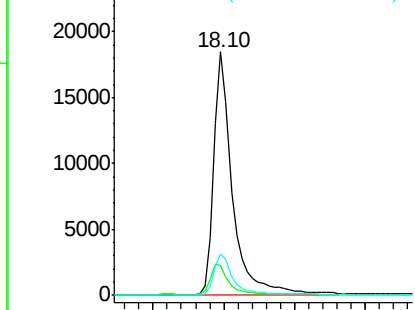
#17
 Fluoranthene
 Concen: 0.57 ng
 RT: 18.10 min Scan# 2303
 Delta R.T. 0.01 min
 Lab File: BE091378.D
 Acq: 2 Feb 2016 15:29

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.5

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.9	11.0	16.4
203	17.1	13.9	20.9

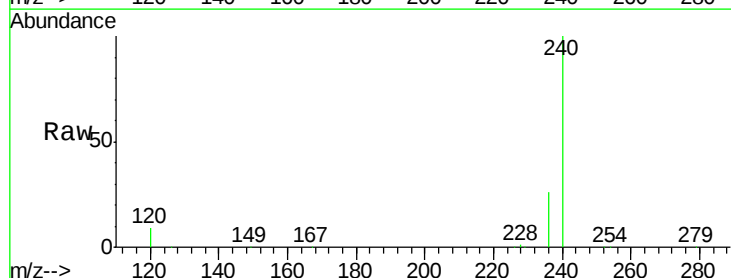


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

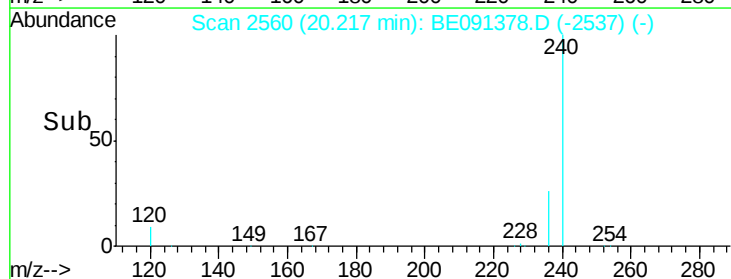
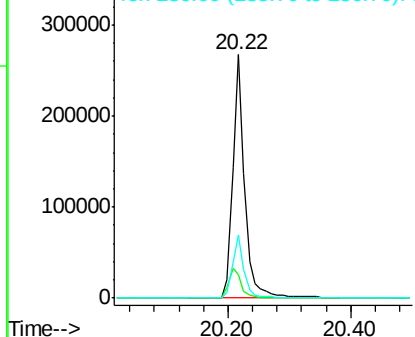


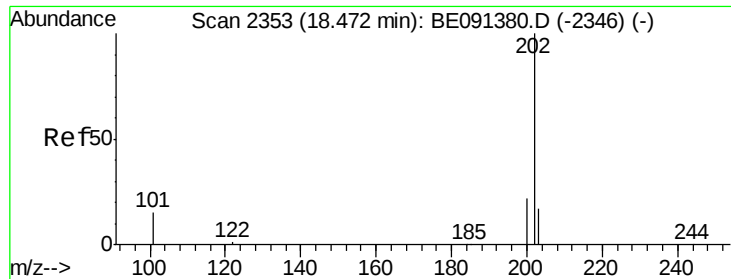
#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.22 min Scan# 2560
 Delta R.T. 0.00 min
 Lab File: BE091378.D
 Acq: 2 Feb 2016 15:29

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.5	12.6	19.0#
236	25.8	22.7	34.1



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





#19

Pvrene

Concen: 0.62 ng

RT: 18.48 min Scan# 2354

Delta R.T. 0.01 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

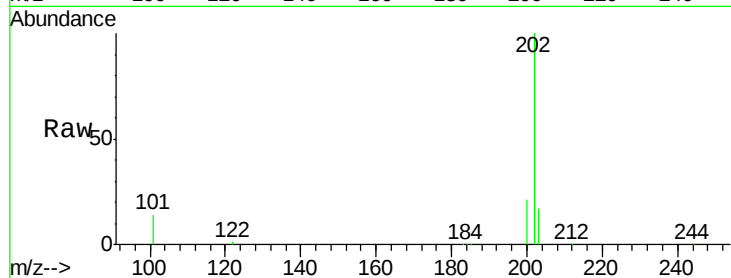
Tot Ion:202 Resp: 34068

Ion Ratio Lower Upper

202 100

200 21.1 17.2 25.8

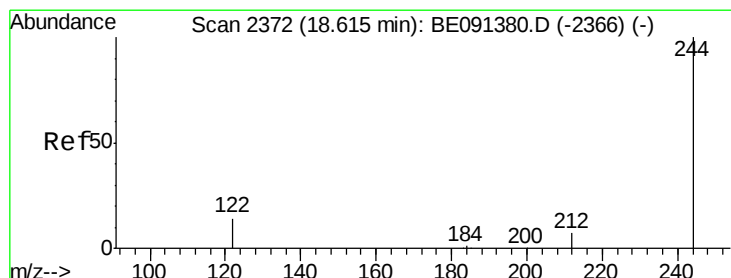
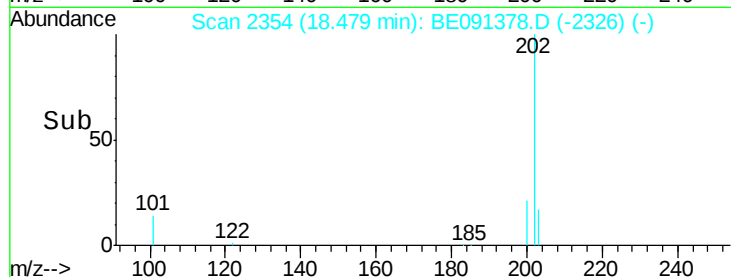
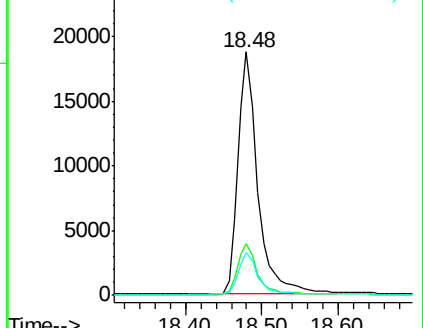
203 17.2 14.2 21.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#20

Terphenyl-d14

Concen: 0.70 ng

RT: 18.62 min Scan# 2373

Delta R.T. 0.01 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

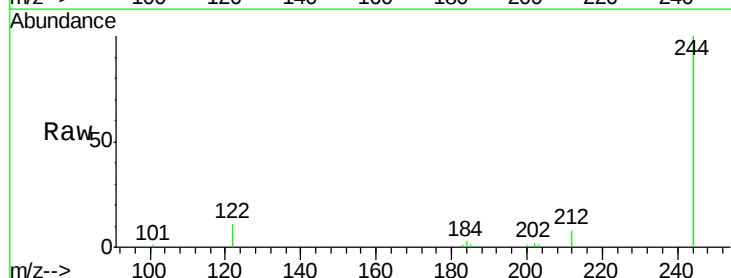
Tgt Ion:244 Resp: 23811

Ion Ratio Lower Upper

244 100

212 7.6 7.0 10.4

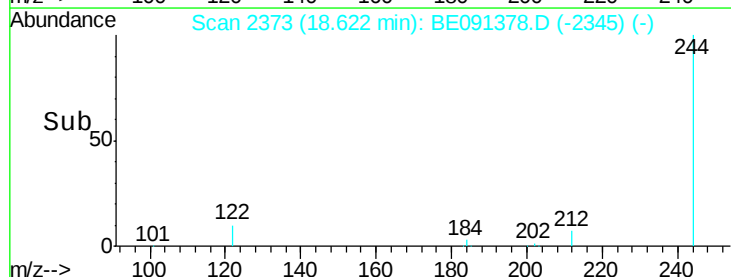
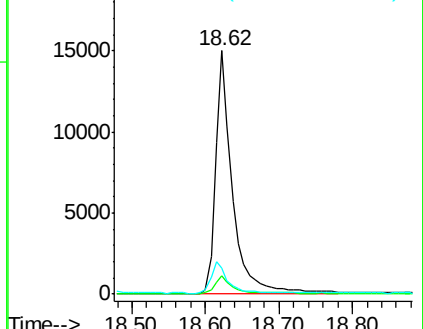
122 10.7 8.5 12.7

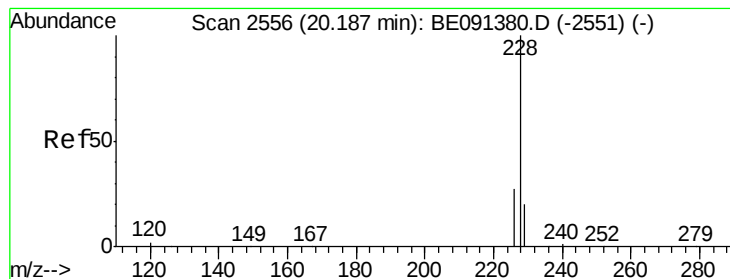


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 0.54 ng

RT: 20.19 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

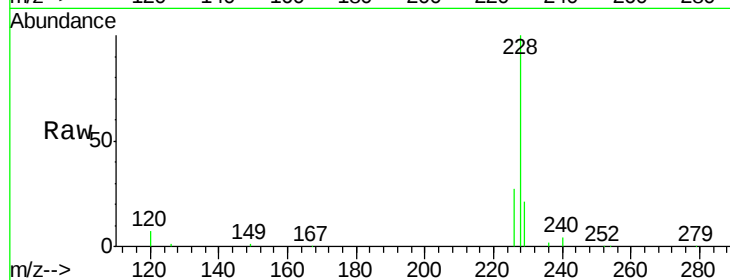
Tot Ion:228 Resp: 27156

Ion Ratio Lower Upper

228 100

226 26.7 22.5 33.7

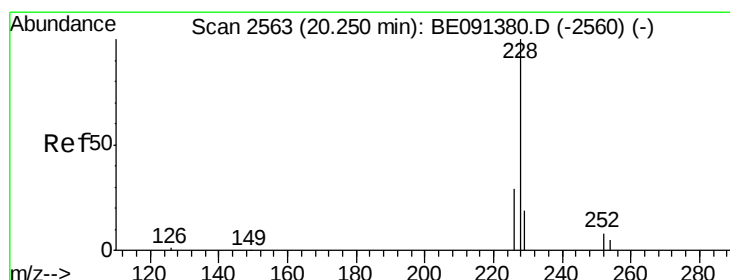
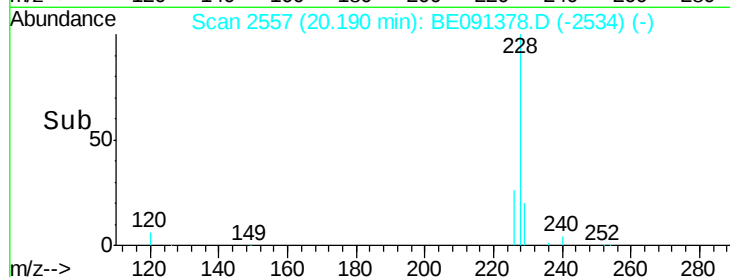
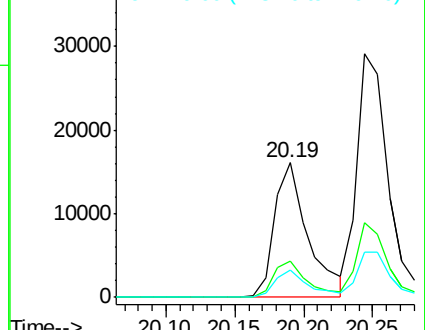
229 20.5 16.2 24.4



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: 0.54 ng

RT: 20.24 min Scan# 2563

Delta R.T. -0.01 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

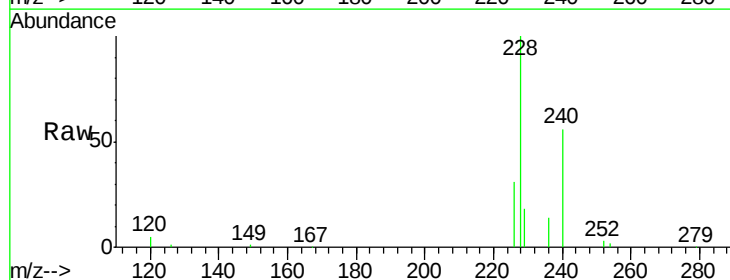
Tgt Ion:228 Resp: 47254

Ion Ratio Lower Upper

228 100

226 30.7 23.7 35.5

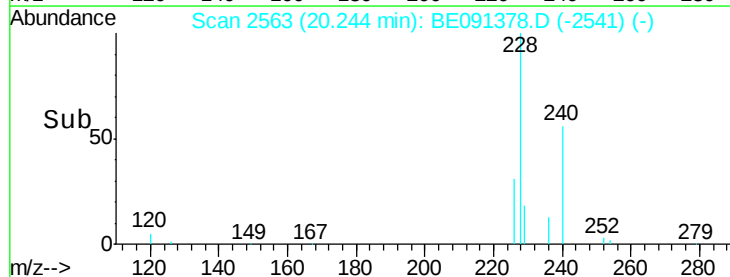
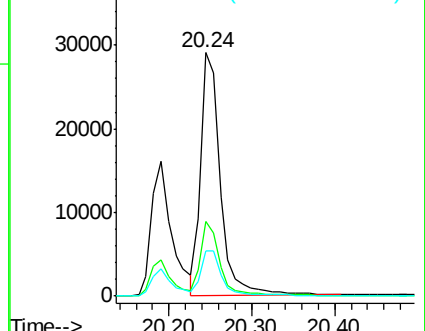
229 18.5 16.0 24.0

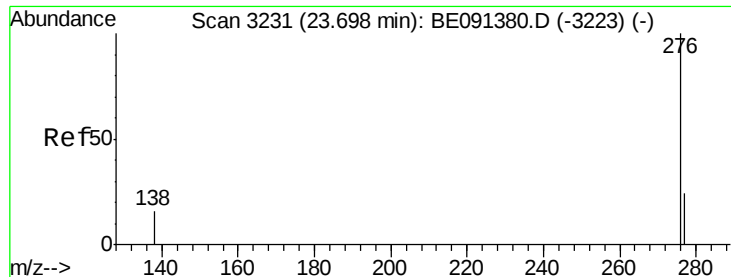


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

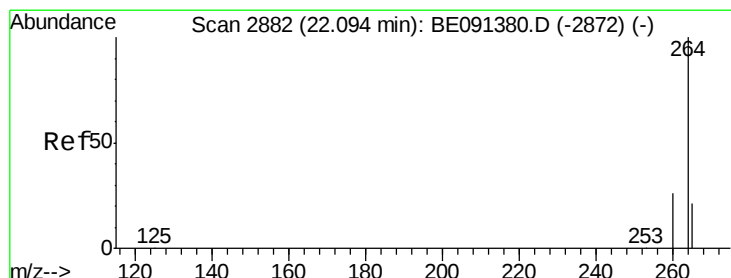
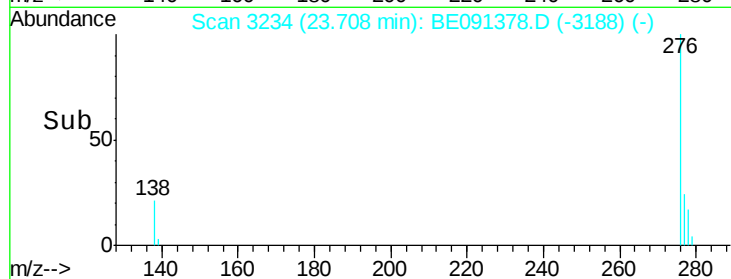
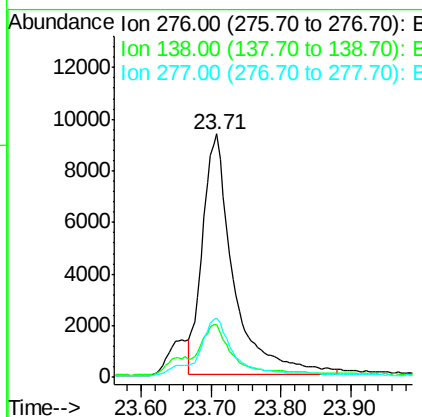
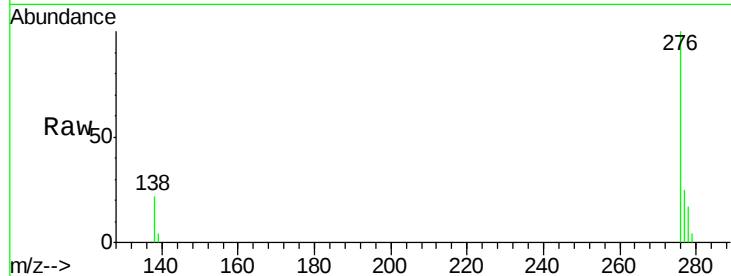




#23
Indeno(1,2,3-cd)pyrene
Concen: 0.51 ng/ml
RT: 23.71 min Scan# 3234
Delta R.T. 0.01 min
Lab File: BE091378.D
Acq: 2 Feb 2016 15:29

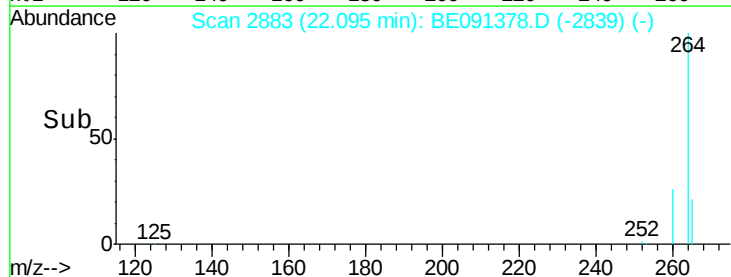
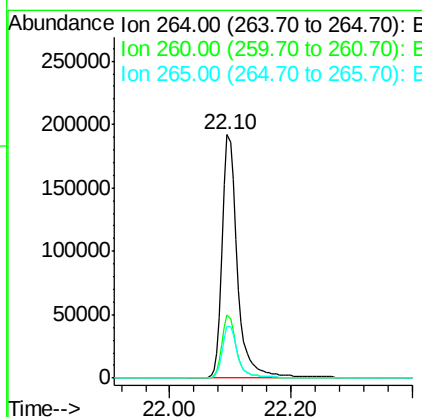
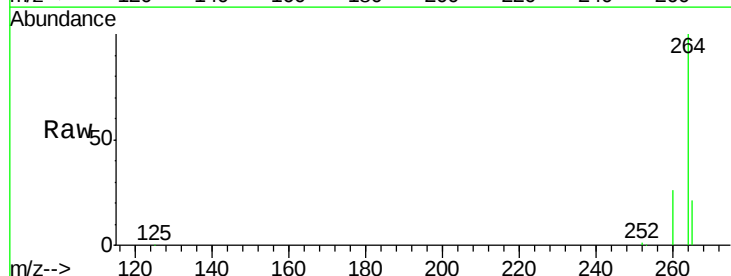
Instrument :
BNA_E
ClientSampleId :
SSTDIC0.5

Tot Ion: 276 Resp: 28974
Ion Ratio Lower Upper
276 100
138 17.2 18.6 27.8#
277 23.6 16.5 24.7



#24
Perylene-d12
Concen: 5.00 ng
RT: 22.10 min Scan# 2883
Delta R.T. 0.00 min
Lab File: BE091378.D
Acq: 2 Feb 2016 15:29

Tgt Ion: 264 Resp: 337246
Ion Ratio Lower Upper
264 100
260 25.8 20.4 30.6
265 21.3 17.2 25.8





#25

Benzo(b)fluoranthene

Concen: 0.55 ng

RT: 21.55 min Scan# 2763

Delta R.T. 0.00 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.5

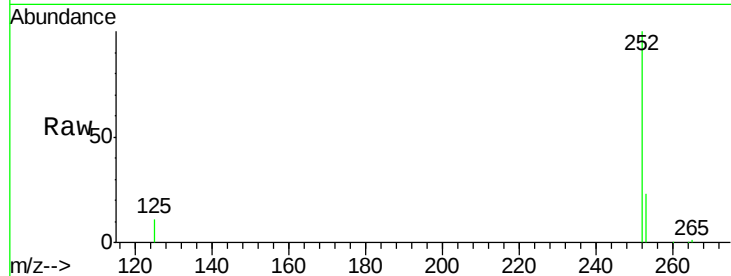
Tot Ion:252 Resp: 30862

Ion Ratio Lower Upper

252 100

253 22.5 17.4 26.2

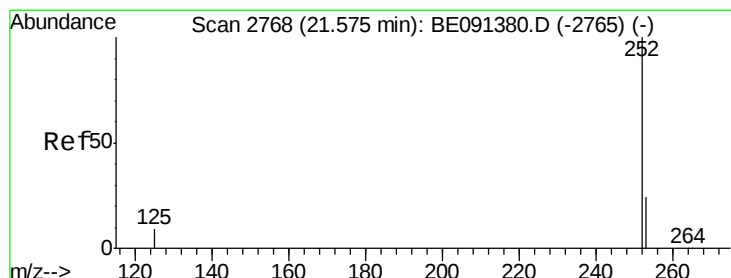
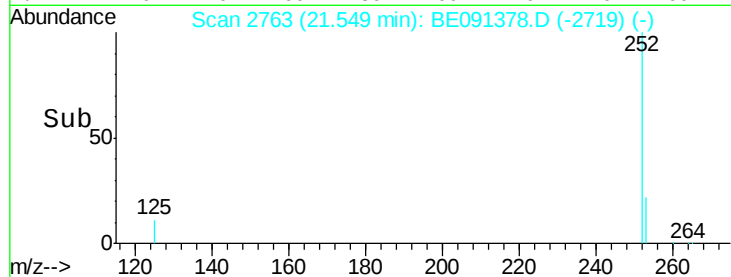
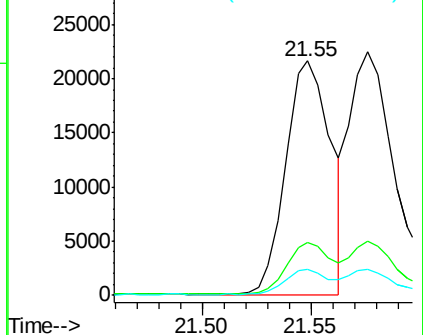
125 11.0 11.0 16.6#



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: 0.55 ng

RT: 21.58 min Scan# 2769

Delta R.T. 0.00 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

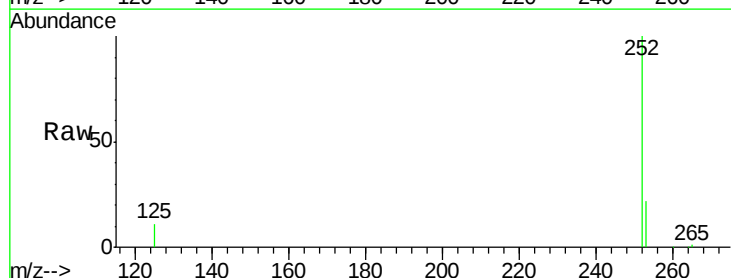
Tgt Ion:252 Resp: 36389

Ion Ratio Lower Upper

252 100

253 22.5 17.5 26.3

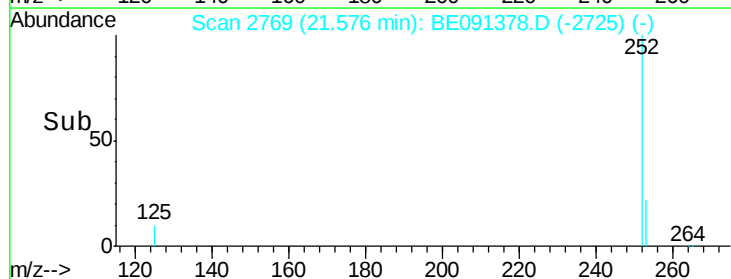
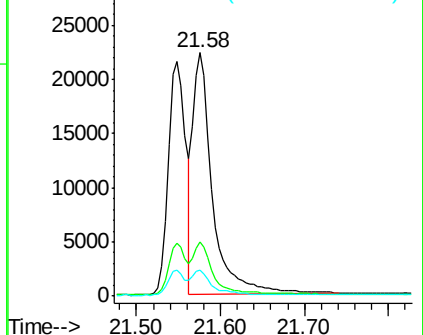
125 10.8 11.3 16.9#



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: 0.47 ng

RT: 22.00 min Scan# 2863

Delta R.T. 0.00 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

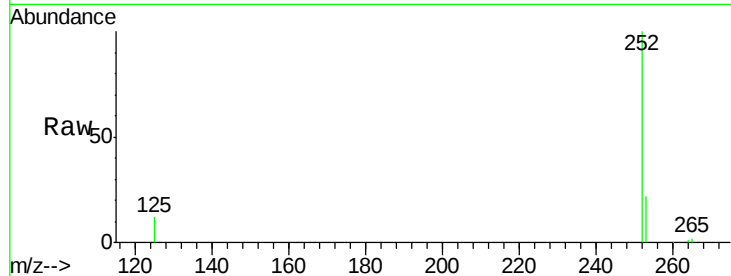
Tot Ion:252 Resp: 27166

Ion Ratio Lower Upper

252 100

253 22.1 18.1 27.1

125 12.1 12.2 18.4#

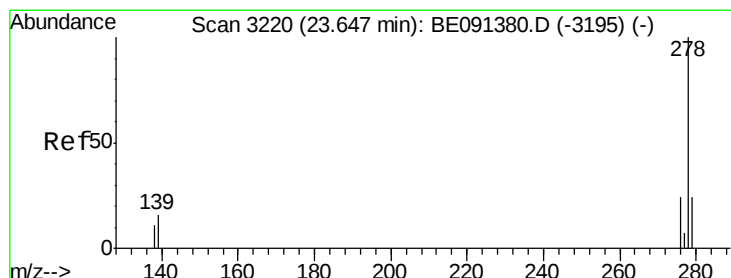
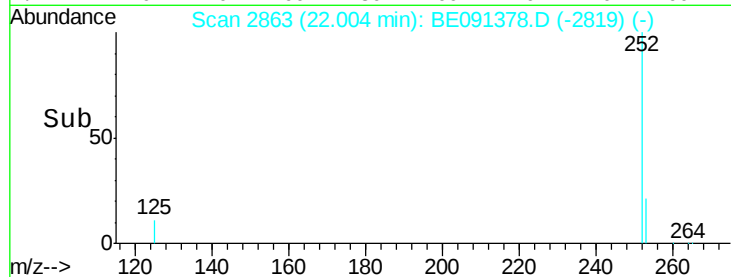
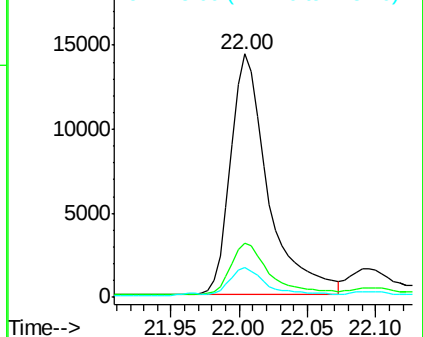


Abundance

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: 0.53 ng

RT: 23.65 min Scan# 3222

Delta R.T. 0.01 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

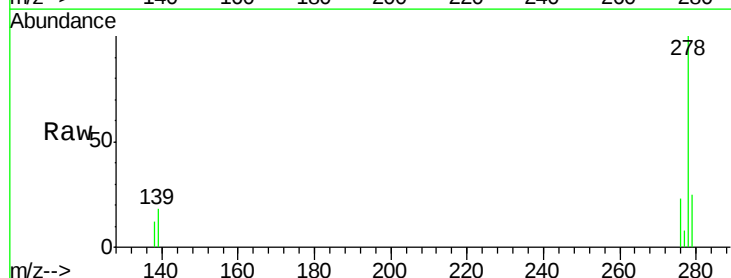
Tgt Ion:278 Resp: 22562

Ion Ratio Lower Upper

278 100

139 17.7 16.3 24.5

279 24.8 19.4 29.2

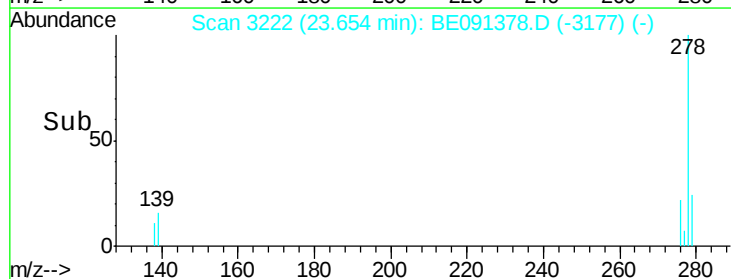
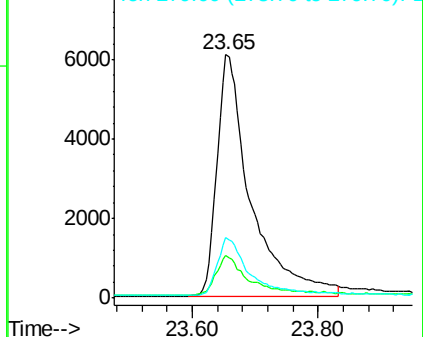


Abundance

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: 0.57 ng

RT: 24.25 min Scan# 3354

Delta R.T. 0.01 min

Lab File: BE091378.D

Acq: 2 Feb 2016 15:29

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

Tot Ion: 276 Resp: 31235

Ion Ratio Lower Upper

276 100

277 24.4 19.8 29.6

138 22.9 23.3 34.9#

