

Data Path : Z:\HPCHEM1\BNA E\DATA\BE032516\
 Data File : BE091528.D
 Acq On : 25 Mar 2016 17:12
 Operator : UM/SJ
 Sample : SSTDICC005
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Quant Time: Mar 25 19:03:22 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 25 15:19:17 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	39684	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	200598	5.00	ng	0.00
10) Acenaphthene-d10	14.43	164	118860	5.00	ng	-0.01
16) Phenanthrene-d10	17.17	188	284422	5.00	ng	0.00
22) Chrysene-d12	21.34	240	303168	5.00	ng	0.00
28) Perylene-d12	23.79	264	303522	5.00	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	40106	4.40	ng	-0.02
5) Phenol-d6	6.97	99	57916	4.87	ng	-0.02
7) Nitrobenzene-d5	8.97	82	47038	5.23	ng	-0.01
11) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ng	
12) 2-Fluorobiphenyl	13.06	172	163894	5.48	ng	-0.01
24) Terphenyl-d14	19.78	244	255083	7.00	ng	0.00

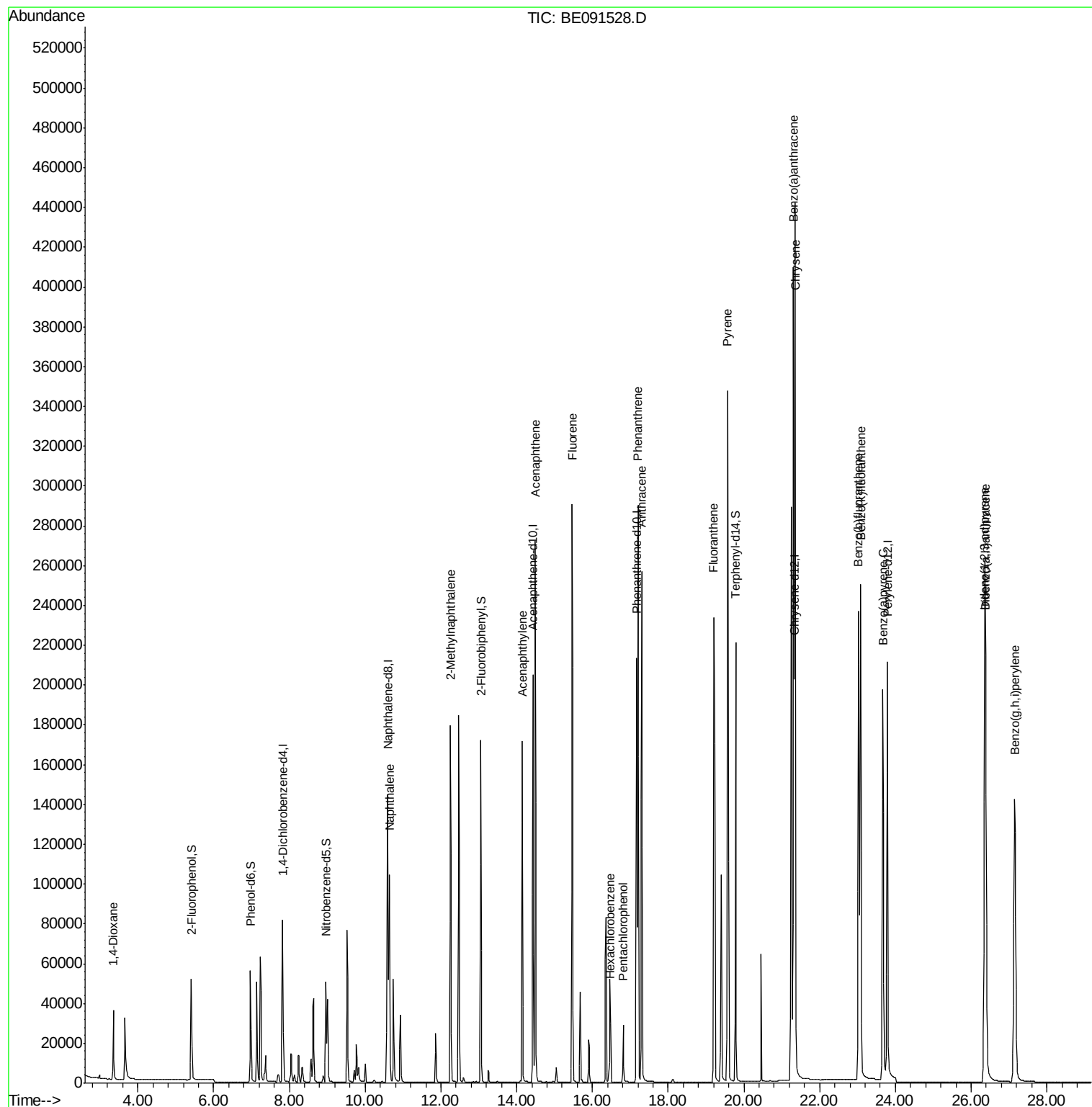
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.35	88	22065	4.45	ng	90
8) Naphthalene	10.65	128	192697	3.93	ng	# 93
9) 2-Methylnaphthalene	12.25	142	128171	4.07	ng	# 89
13) Acenaphthylene	14.15	152	236846	4.67	ng	97
14) Acenaphthene	14.49	154	145419	3.97	ng	98
15) Fluorene	15.47	166	183623	3.96	ng	100
17) Hexachlorobenzene	16.48	284	49561	4.00	ng	93
18) Pentachlorophenol	16.81	266	18811	3.83	ng	99
19) Phenanthrene	17.21	178	312622	3.85	ng	99
20) Anthracene	17.30	178	291714	4.09	ng	99
21) Fluoranthene	19.21	202	319245	3.43	ng	98
23) Pyrene	19.57	202	366782	4.86	ng	97
25) Benzo(a)anthracene	21.31	228	356019	4.27	ng	# 87
26) Chrysene	21.36	228	429751m	5.04	ng	
27) Indeno(1,2,3-cd)pyrene	26.35	276	383261	4.41	ng	99
29) Benzo(b)fluoranthene	23.02	252	381378	3.98	ng	95
30) Benzo(k)fluoranthene	23.08	252	330410	3.37	ng	95
31) Benzo(a)pyrene	23.67	252	314591	3.72	ng	# 94
32) Dibenzo(a,h)anthracene	26.39	278	328927	3.95	ng	97
33) Benzo(a,h,i)perylene	27.15	276	329038	3.80	ng	99

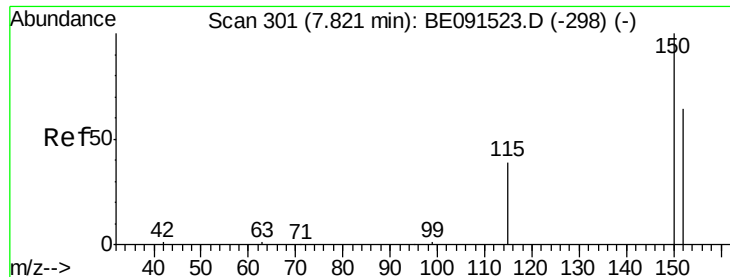
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.82 min Scan# 301

Delta R.T. -0.00 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

Instrument :

BNA_E

ClientSampleId :

SSTDICC005

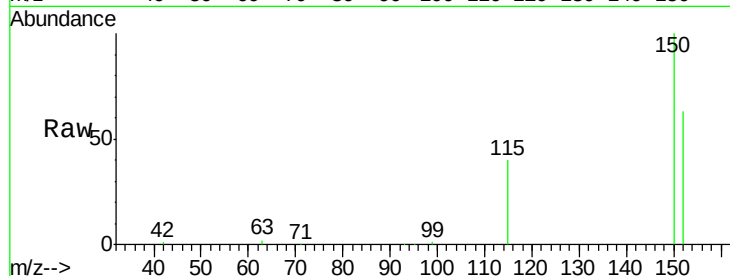
Tot Ion:152 Resp: 39684

Ion Ratio Lower Upper

152 100

150 159.3 122.2 183.2

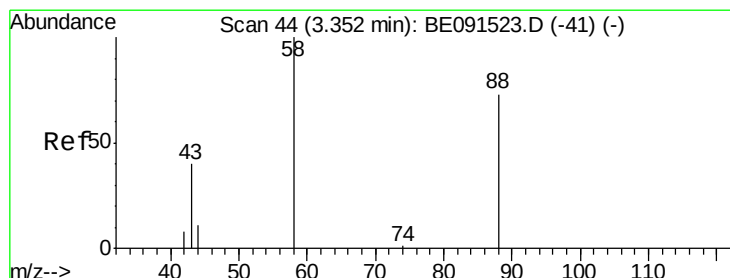
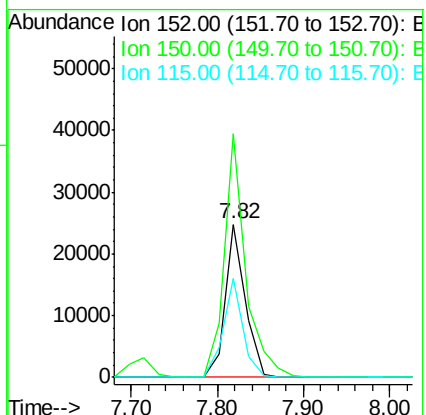
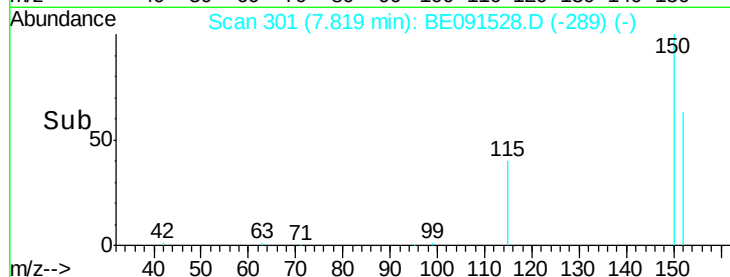
115 64.4 45.9 68.9



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

1,4-Dioxane

Concen: 4.45 ng

RT: 3.35 min Scan# 44

Delta R.T. -0.02 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

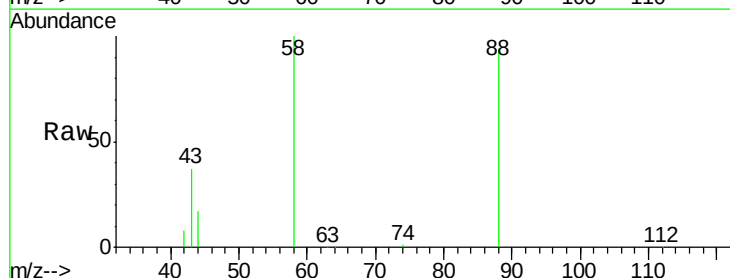
Tgt Ion: 88 Resp: 22065

Ion Ratio Lower Upper

88 100

58 85.7 61.0 91.6

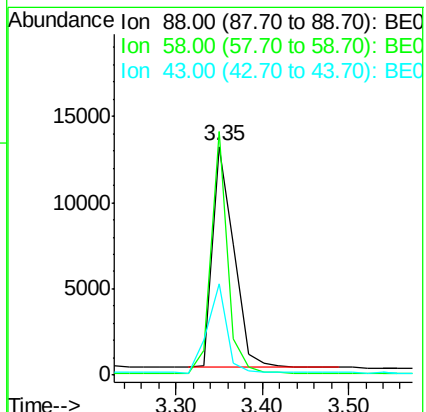
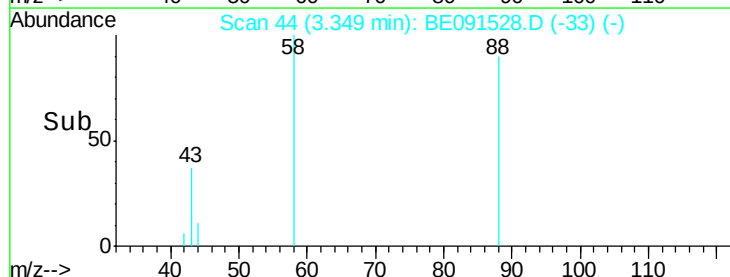
43 36.8 25.4 38.2

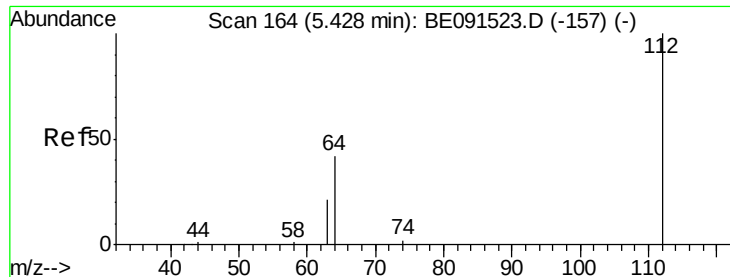


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 4.40 ng

RT: 5.41 min Scan# 163

Delta R.T. -0.02 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

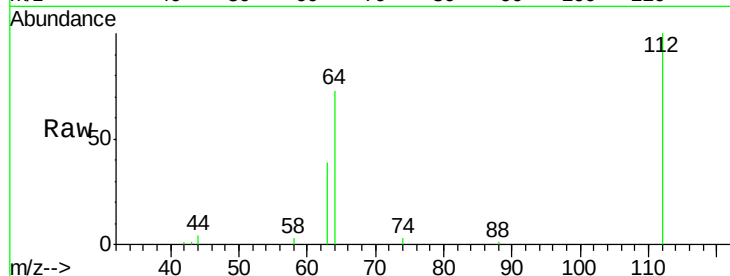
Tot Ion:112 Resp: 40106

Ion Ratio Lower Upper

112 100

64 67.2 53.3 79.9

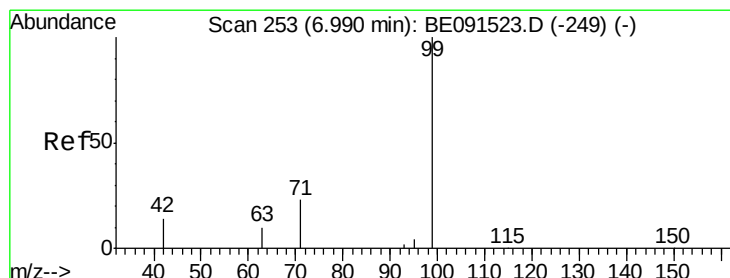
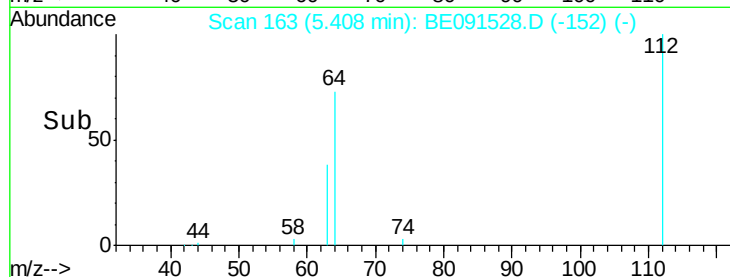
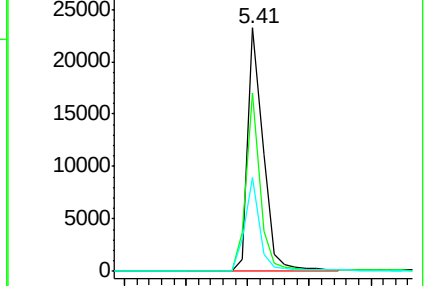
63 37.4 29.8 44.8



Abundance Ion 112.00 (111.70 to 112.70): BE091523.D (-157) (-)

Ion 64.00 (63.70 to 64.70): BE091523.D (-157) (-)

Ion 63.00 (62.70 to 63.70): BE091523.D (-157) (-)



#5

Phenol-d6

Concen: 4.87 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

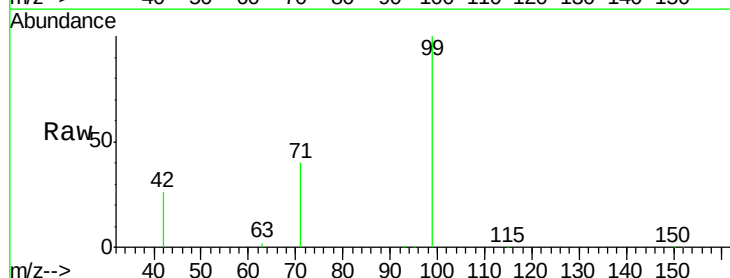
Tgt Ion: 99 Resp: 57916

Ion Ratio Lower Upper

99 100

42 28.0 20.6 30.8

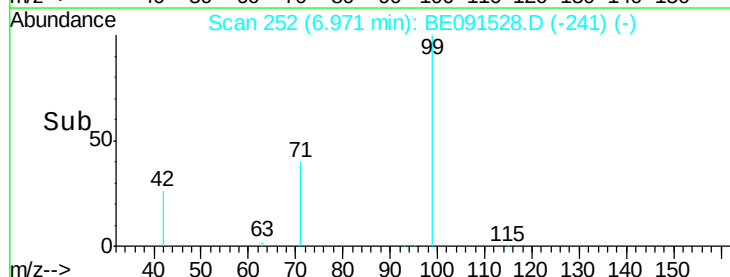
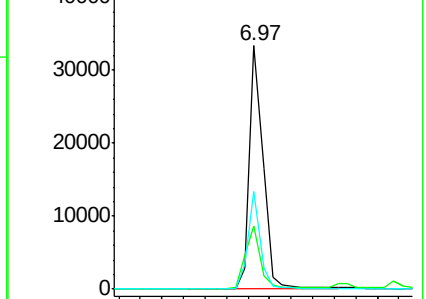
71 36.6 29.0 43.4

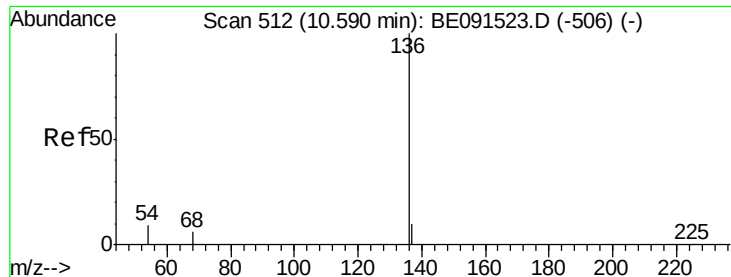


Abundance Ion 99.00 (98.70 to 99.70): BE091523.D (-249) (-)

Ion 42.00 (41.70 to 42.70): BE091523.D (-249) (-)

Ion 71.00 (70.70 to 71.70): BE091523.D (-249) (-)





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

Tot Ion:136 Resp: 200598

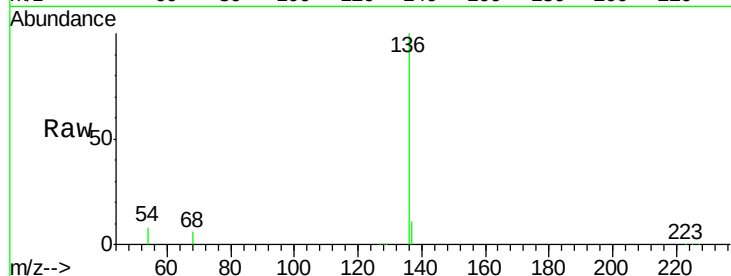
Ion Ratio Lower Upper

136 100

137 10.5 8.8 13.2

54 8.2 5.2 7.8#

68 5.8 4.1 6.1

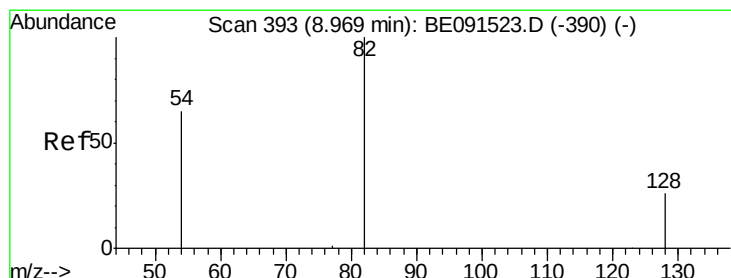
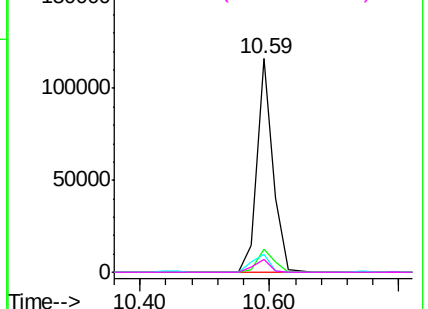
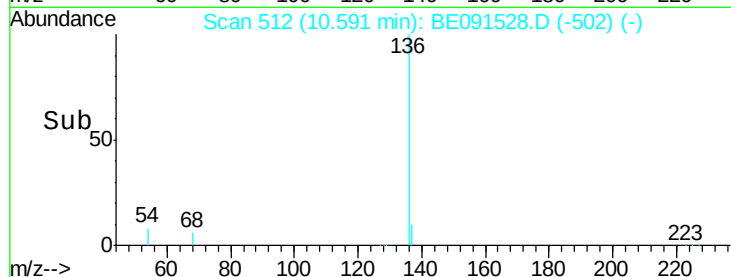


Abundance Ion 136.00 (135.70 to 136.70): E

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



#7

Nitrobenzene-d5

Concen: 5.23 ng

RT: 8.97 min Scan# 393

Delta R.T. -0.01 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

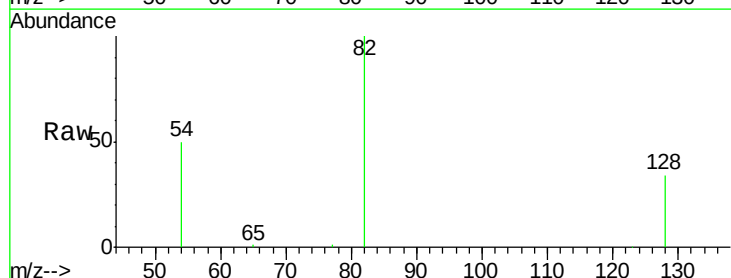
Tgt Ion: 82 Resp: 47038

Ion Ratio Lower Upper

82 100

128 34.1 23.5 35.3

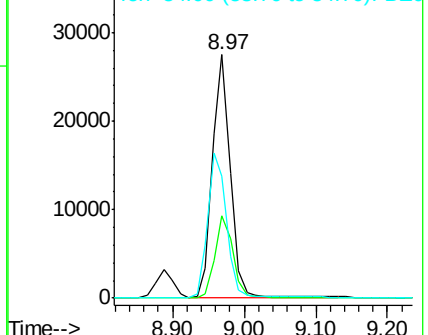
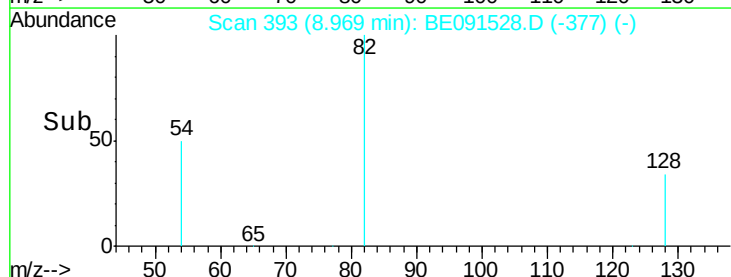
54 50.3 52.4 78.6#

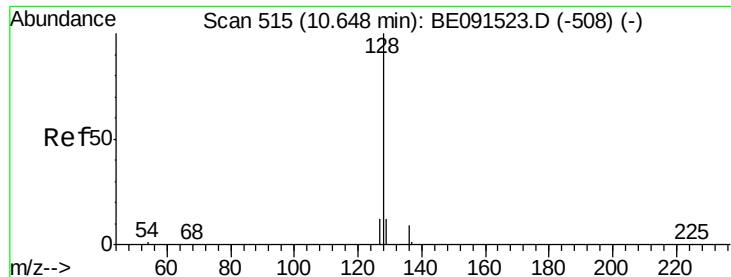


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Naphthalene

Concen: 3.93 ng

RT: 10.65 min Scan# 515

Delta R.T. -0.00 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

Instrument :

BNA_E

ClientSampleId :

SSTDICC005

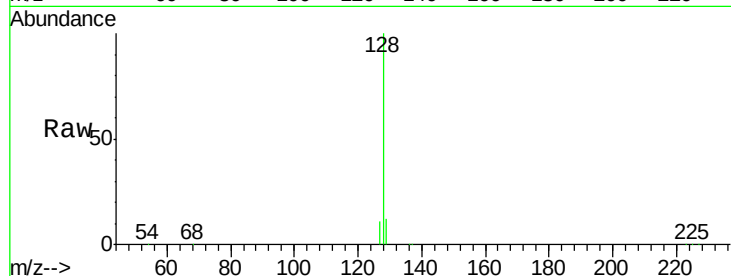
Tot Ion:128 Resp: 192697

Ion Ratio Lower Upper

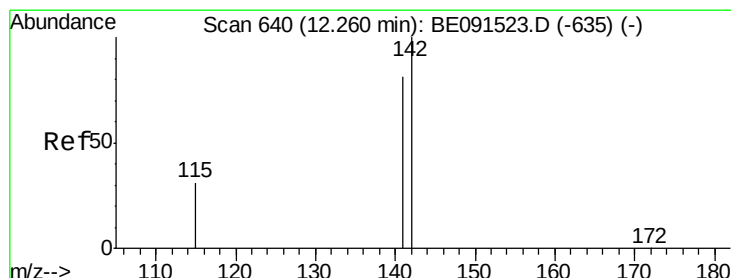
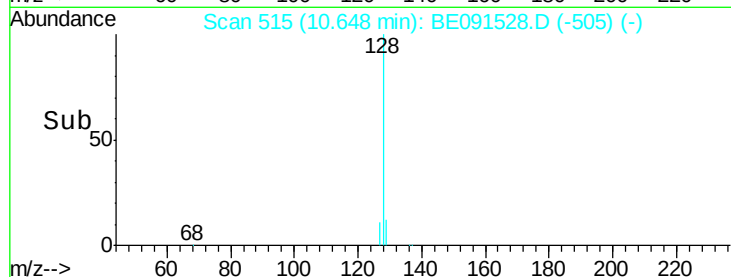
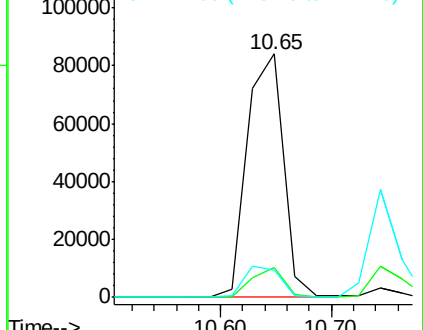
128 100

129 12.2 8.2 12.2

127 11.3 11.8 17.8#



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



#9

2-Methylnaphthalene

Concen: 4.07 ng

RT: 12.25 min Scan# 639

Delta R.T. -0.01 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

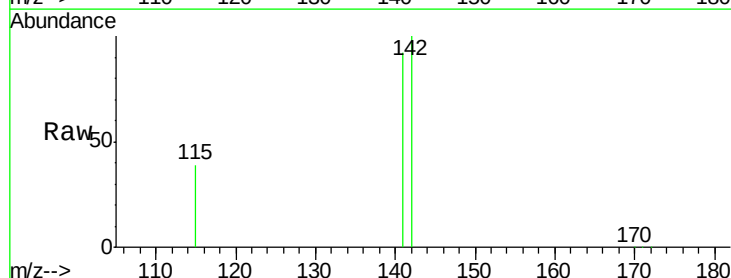
Tgt Ion:142 Resp: 128171

Ion Ratio Lower Upper

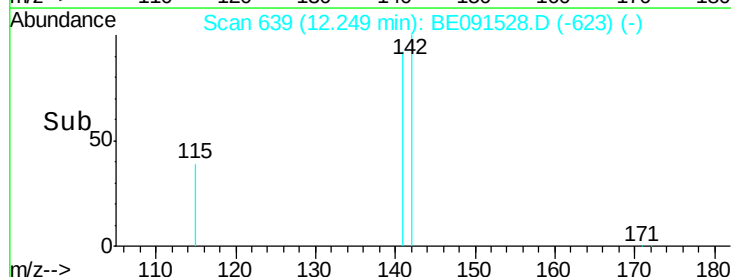
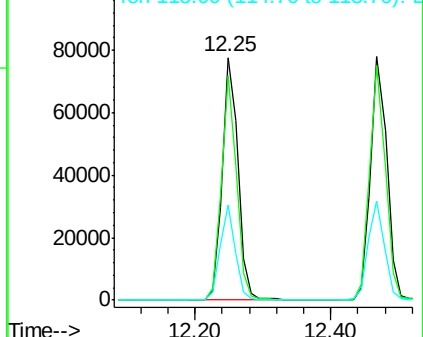
142 100

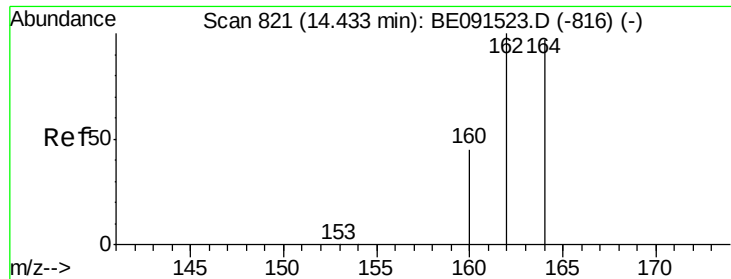
141 92.3 66.9 100.3

115 39.0 25.1 37.7#



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





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.43 min Scan# 821

Delta R.T. -0.01 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

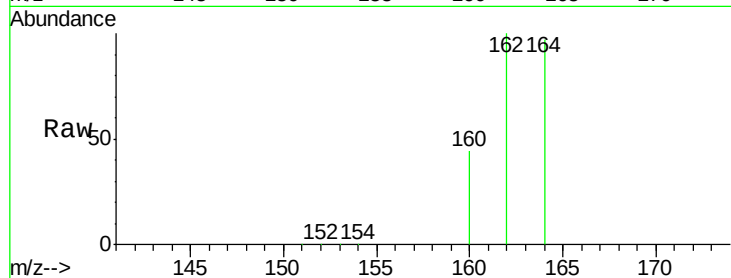
Tot Ion:164 Resp: 118860

Ion Ratio Lower Upper

164 100

162 103.5 84.4 126.6

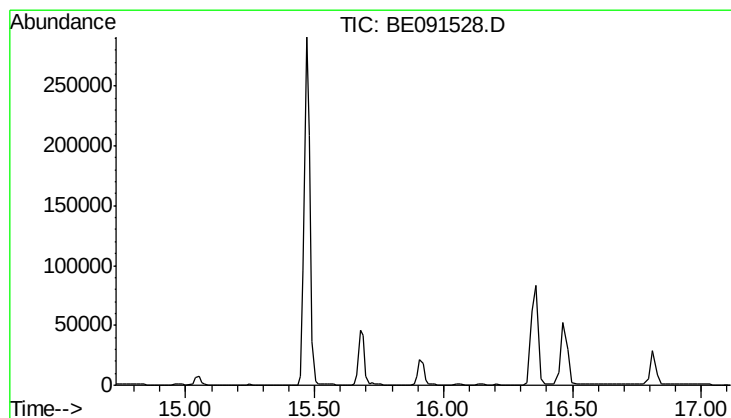
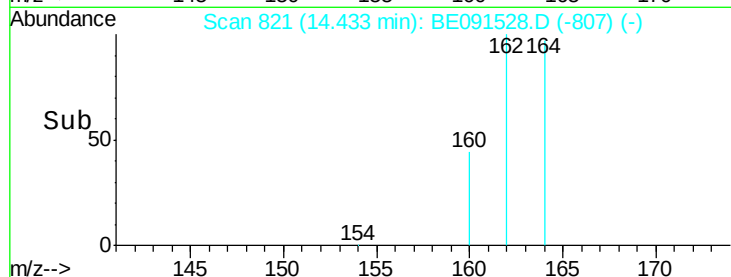
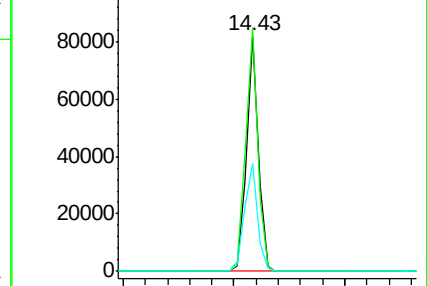
160 45.9 37.7 56.5



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



#11

2,4,6-Tribromophenol

Concen: 0.00 ng

Expected RT: 15.92 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

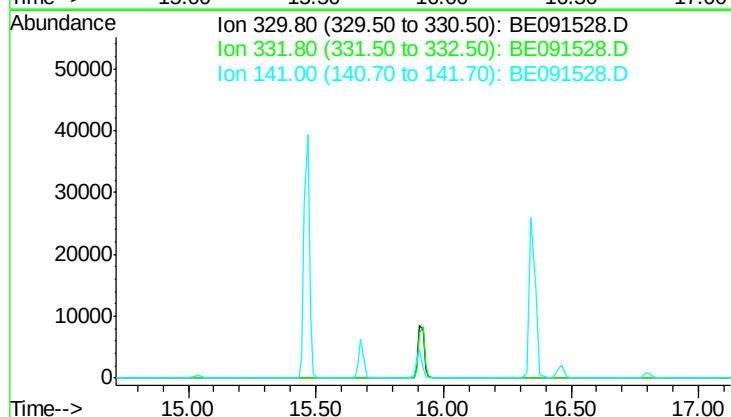
Tgt Ion: 330

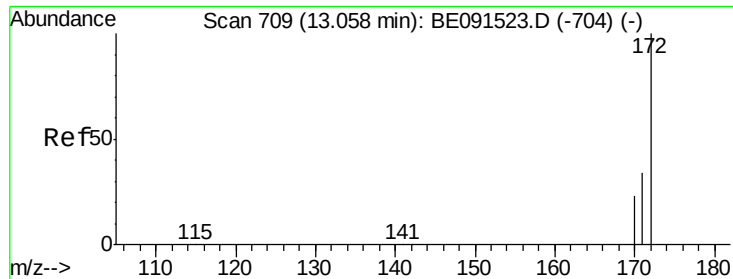
Sig Exp Ratio

330 100

332 99.0

141 35.1

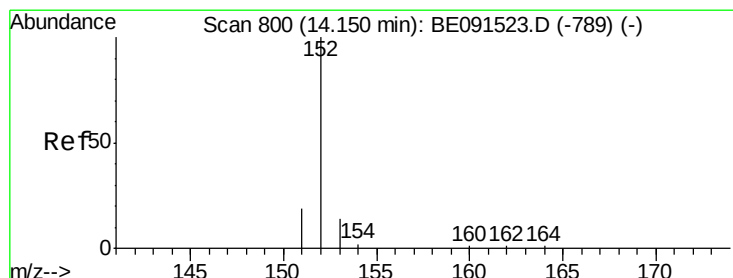
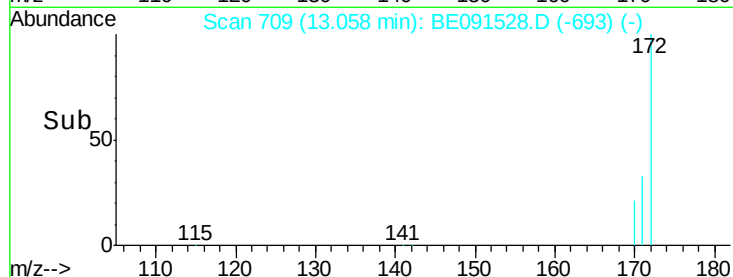
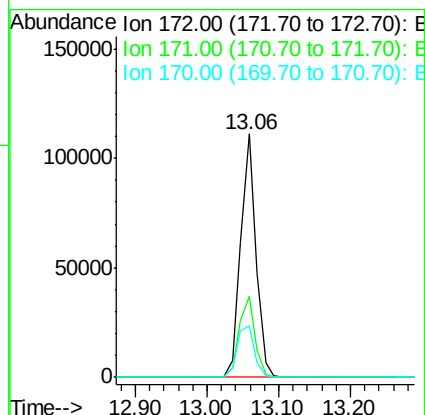
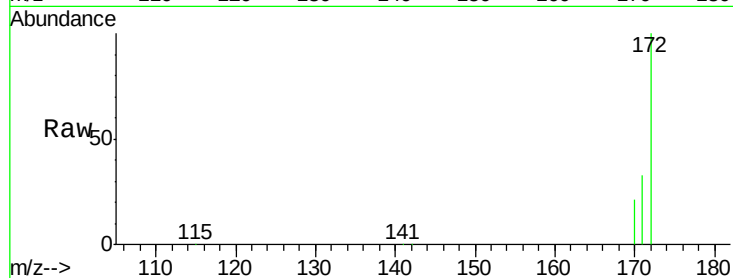




#12
2-Fluorobiphenyl
Concen: 5.48 ng
RT: 13.06 min Scan# 709
Delta R.T. -0.01 min
Lab File: BE091528.D
Acq: 25 Mar 2016 17:12

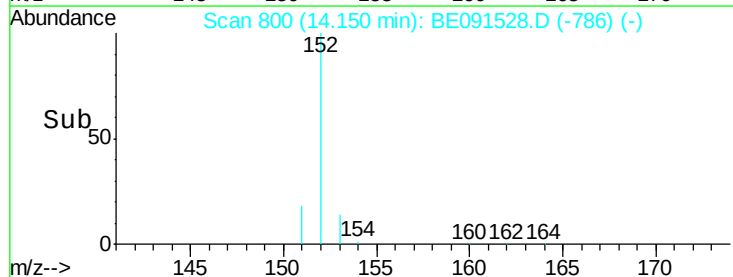
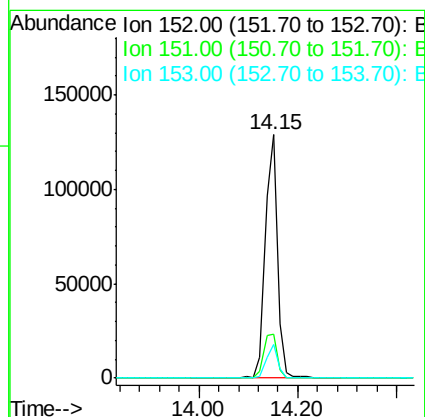
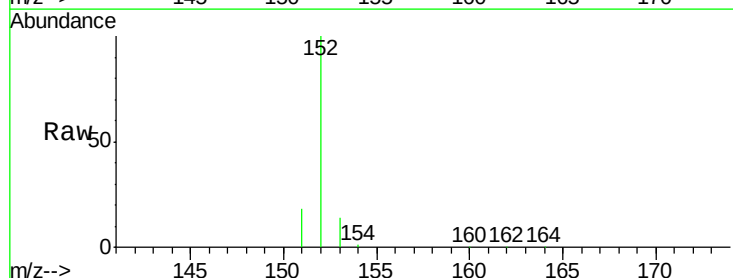
Instrument :
BNA_E
ClientSampleId :
SSTDIC005

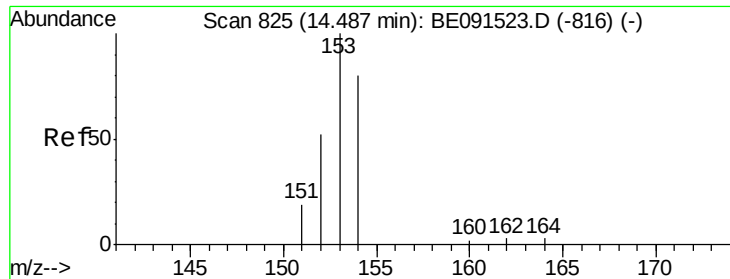
Tot Ion:172 Resp: 163894
Ion Ratio Lower Upper
172 100
171 33.1 29.8 44.8
170 21.2 21.4 32.2#



#13
Acenaphthylene
Concen: 4.67 ng
RT: 14.15 min Scan# 800
Delta R.T. 0.00 min
Lab File: BE091528.D
Acq: 25 Mar 2016 17:12

Tgt Ion:152 Resp: 236846
Ion Ratio Lower Upper
152 100
151 18.5 16.3 24.5
153 13.5 11.1 16.7





#14

Acenaphthene

Concen: 3.97 ng

RT: 14.49 min Scan# 825

Delta R.T. -0.01 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

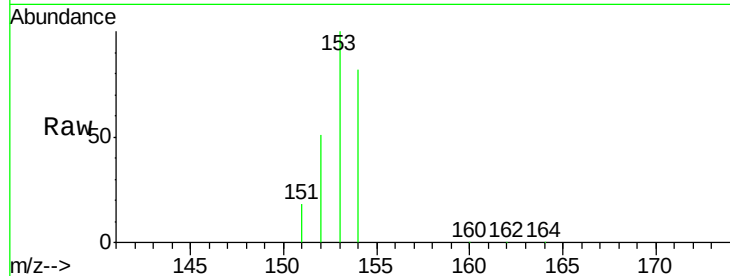
Tot Ion:154 Resp: 145419

Ion Ratio Lower Upper

154 100

153 111.1 87.3 130.9

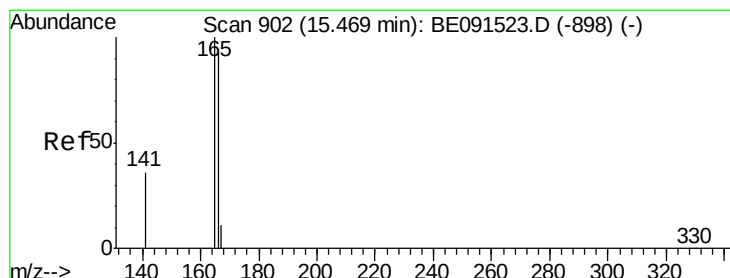
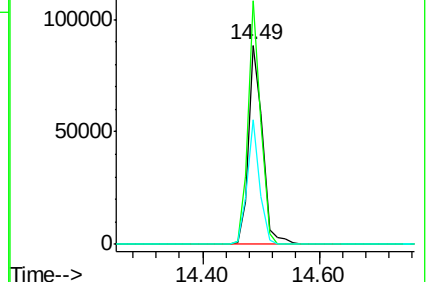
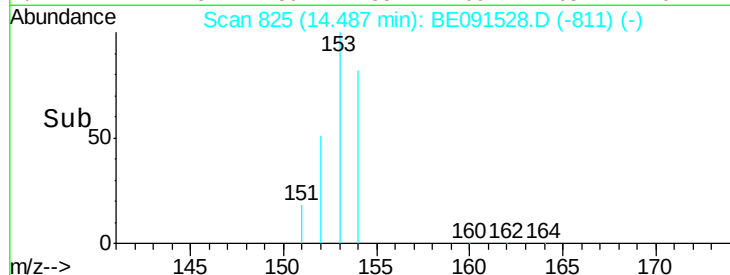
152 55.8 42.9 64.3



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



#15

Fluorene

Concen: 3.96 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

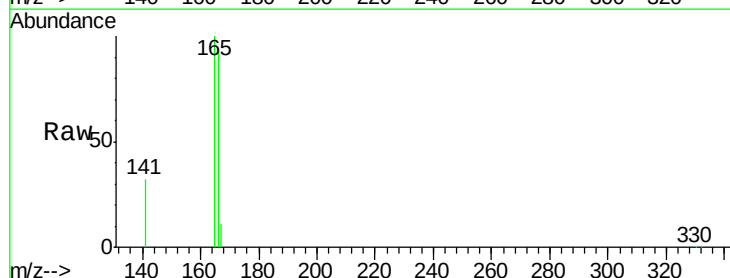
Tgt Ion:166 Resp: 183623

Ion Ratio Lower Upper

166 100

165 99.0 79.2 118.8

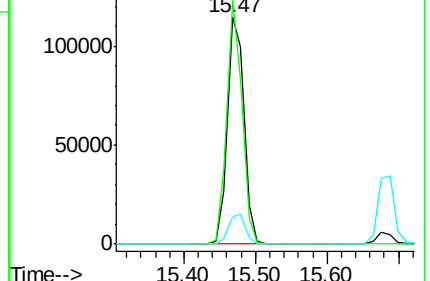
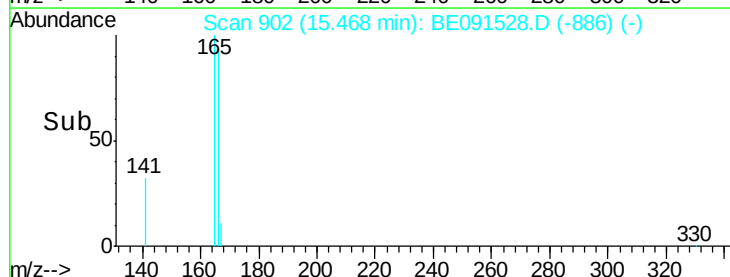
167 13.6 10.8 16.2

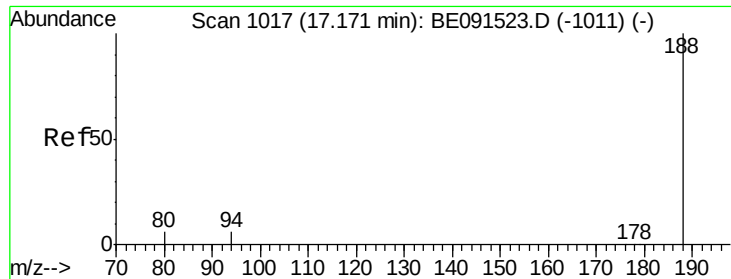


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

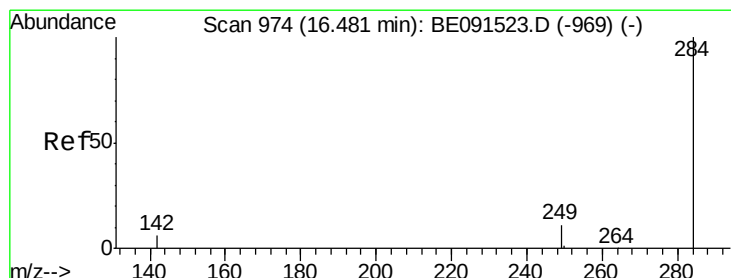
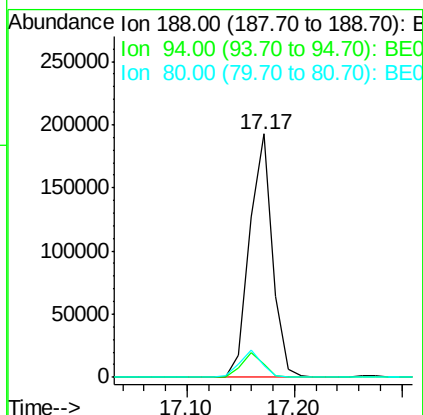
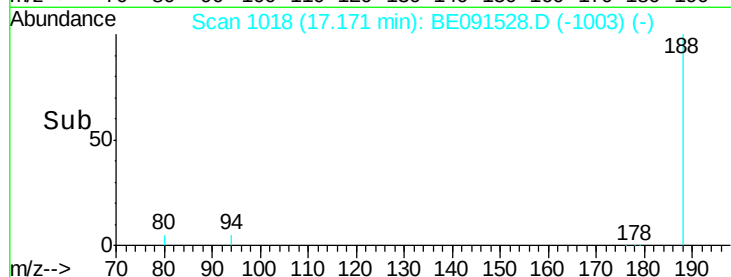
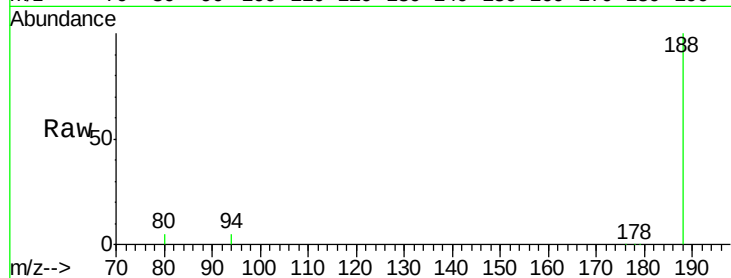




#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.17 min Scan# 1018
Delta R.T. -0.00 min
Lab File: BE091528.D
Acq: 25 Mar 2016 17:12

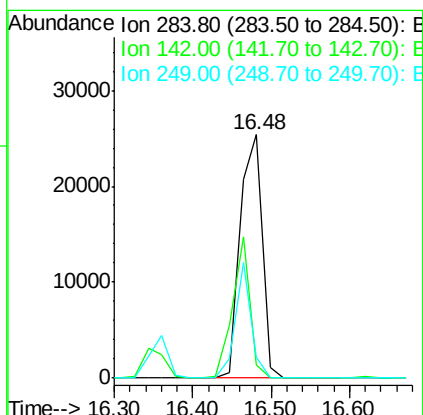
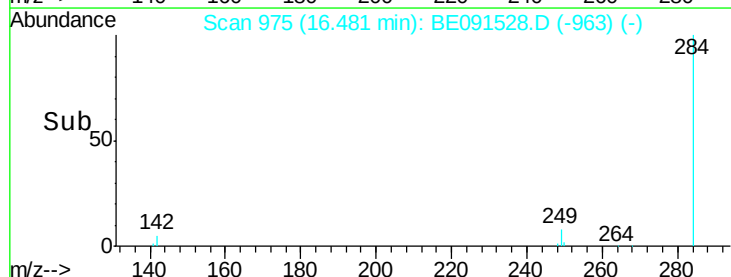
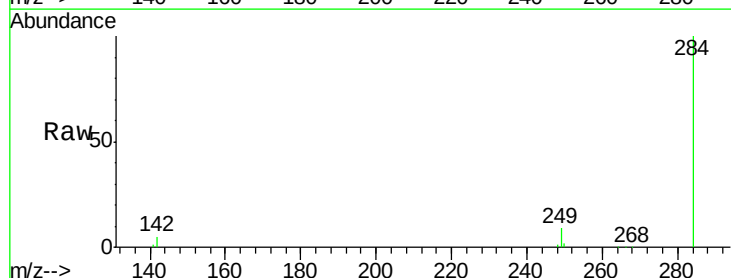
Instrument :
BNA_E
ClientSampleId :
SSTDIC005

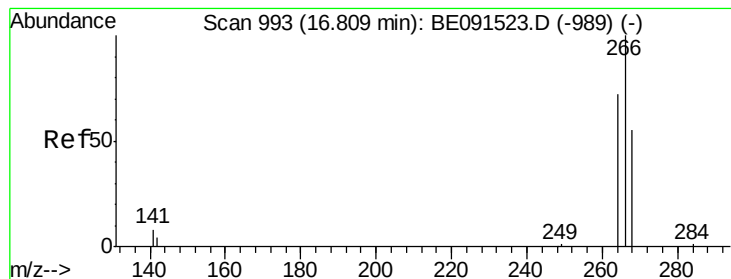
Tot Ion:188 Resp: 284422
Ion Ratio Lower Upper
188 100
94 5.5 5.4 8.2
80 4.9 5.0 7.4#



#17
Hexachlorobenzene
Concen: 4.00 ng
RT: 16.48 min Scan# 975
Delta R.T. -0.00 min
Lab File: BE091528.D
Acq: 25 Mar 2016 17:12

Tgt Ion:284 Resp: 49561
Ion Ratio Lower Upper
284 100
142 44.9 31.0 46.4
249 34.0 25.8 38.8





#18

Pentachlorophenol

Concen: 3.83 ng

RT: 16.81 min Scan# 994

Delta R.T. -0.02 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

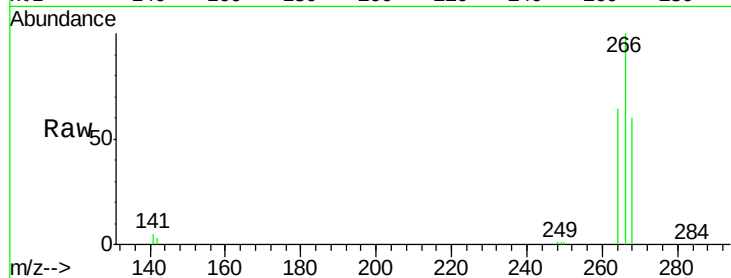
Tot Ion:266 Resp: 18811

Ion Ratio Lower Upper

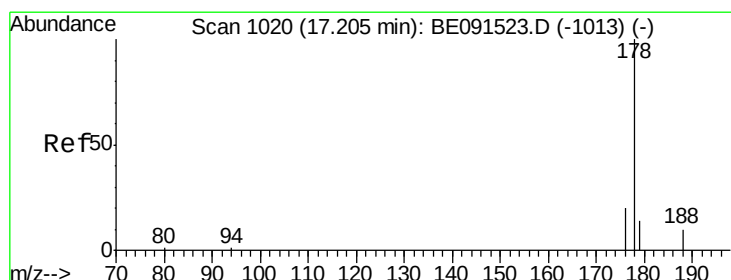
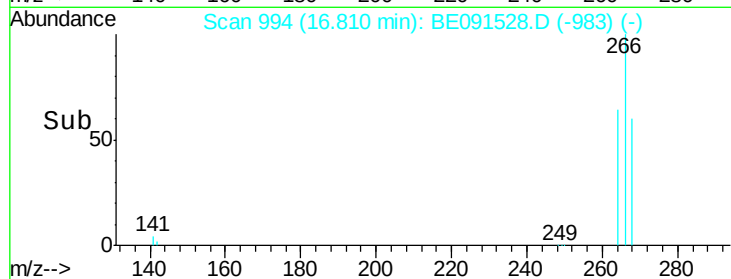
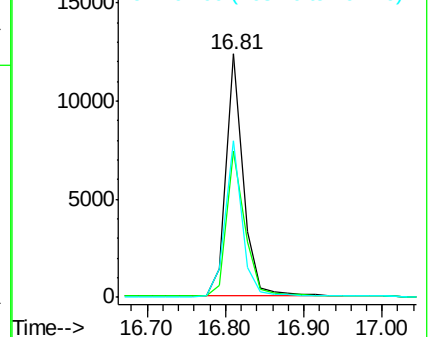
266 100

268 60.1 48.2 72.2

264 64.2 52.1 78.1



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E



#19

Phenanthrene

Concen: 3.85 ng

RT: 17.21 min Scan# 1021

Delta R.T. -0.00 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

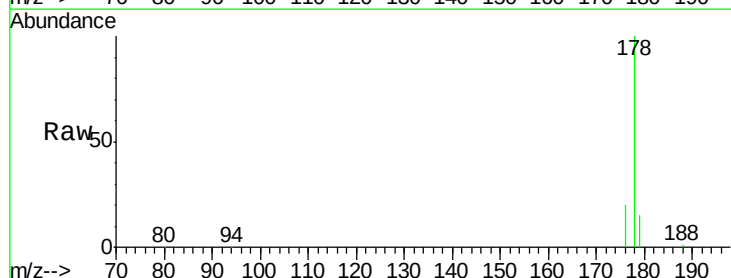
Tgt Ion:178 Resp: 312622

Ion Ratio Lower Upper

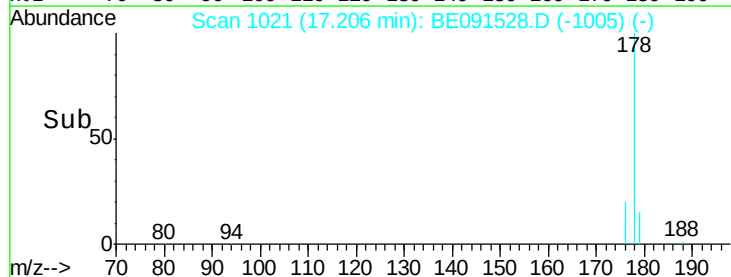
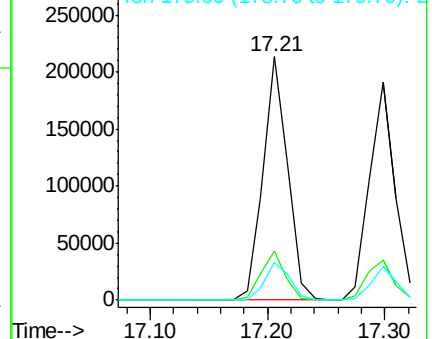
178 100

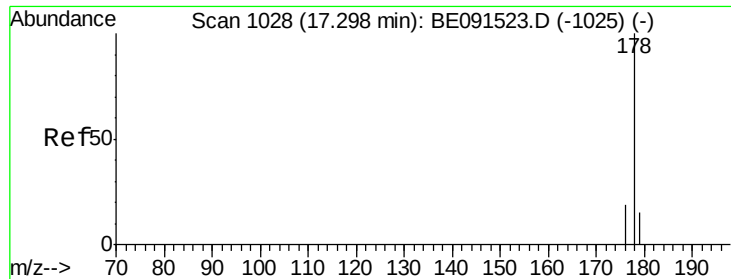
176 19.7 15.5 23.3

179 15.6 13.1 19.7



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





#20

Anthracene

Concen: 4.09 ng

RT: 17.30 min Scan# 1029

Delta R.T. -0.00 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

Instrument :

BNA_E

ClientSampleId :

SSTDICC005

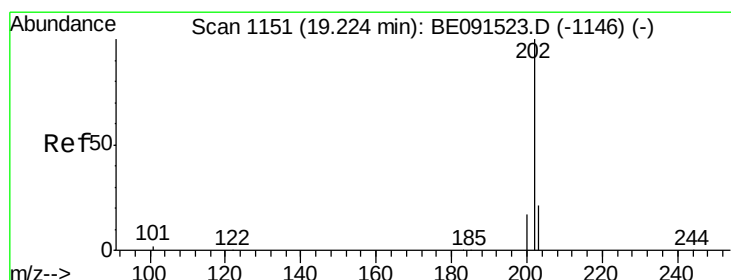
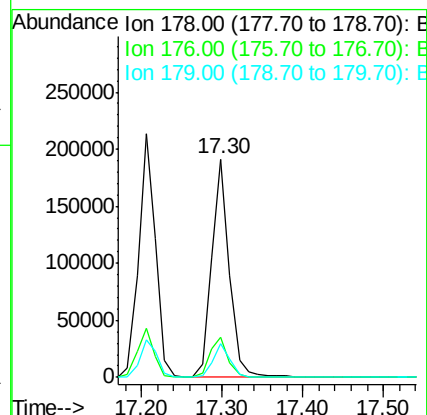
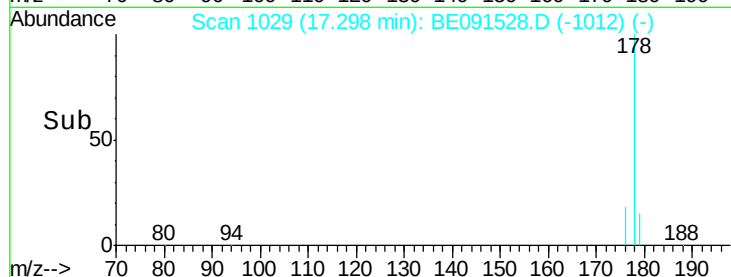
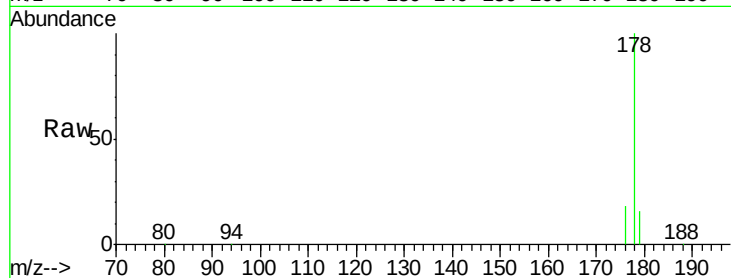
Tot Ion:178 Resp: 291714

Ion Ratio Lower Upper

178 100

176 19.2 14.9 22.3

179 15.4 12.2 18.4



#21

Fluoranthene

Concen: 3.43 ng

RT: 19.21 min Scan# 1151

Delta R.T. -0.02 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

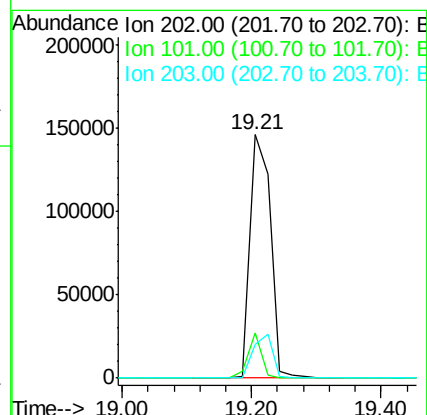
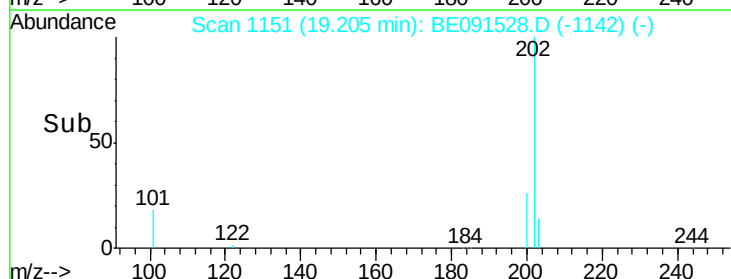
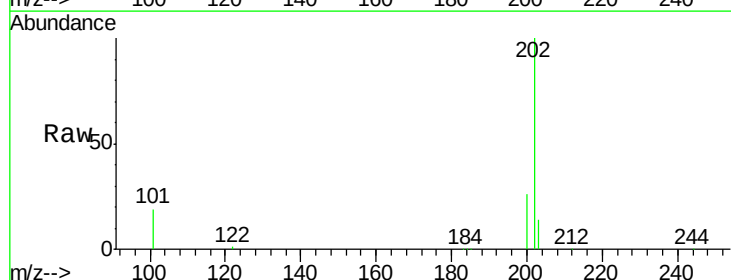
Tgt Ion:202 Resp: 319245

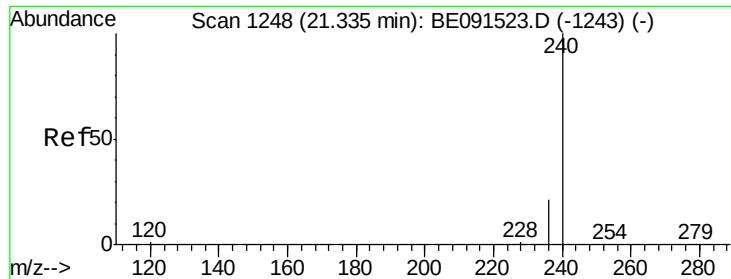
Ion Ratio Lower Upper

202 100

101 12.0 8.3 12.5

203 17.5 13.9 20.9





#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.34 min Scan# 1249

Delta R.T. -0.00 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

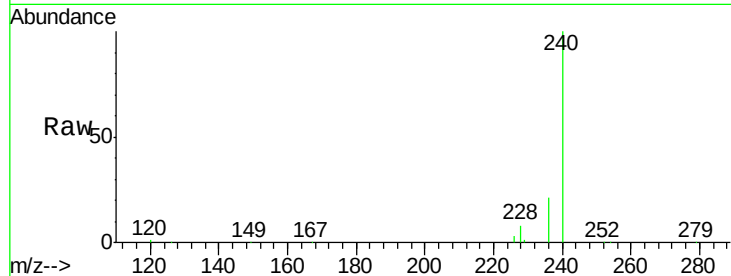
Tot Ion:240 Resp: 303168

Ion Ratio Lower Upper

240 100

120 0.9 4.0 6.0#

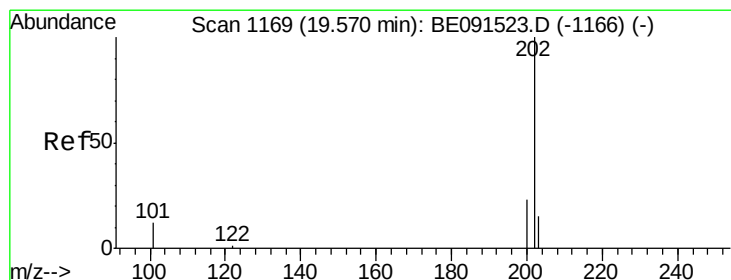
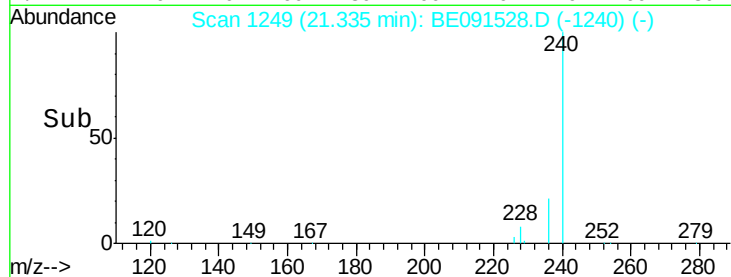
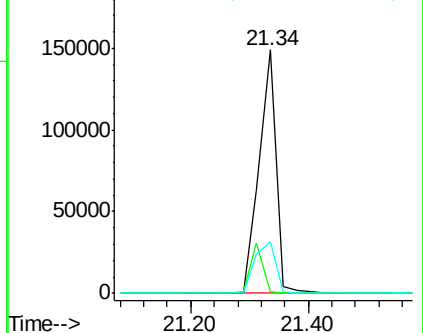
236 21.3 23.0 34.4#



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



#23

Pyrene

Concen: 4.86 ng

RT: 19.57 min Scan# 1170

Delta R.T. -0.00 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

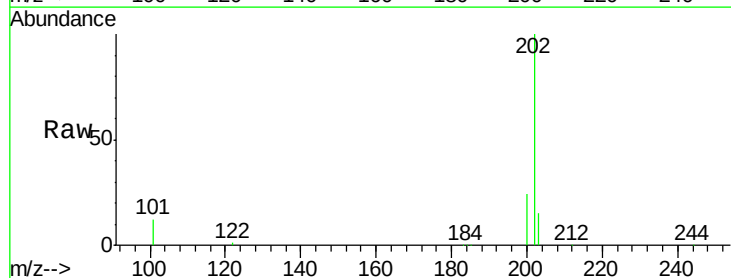
Tgt Ion:202 Resp: 366782

Ion Ratio Lower Upper

202 100

200 21.9 16.4 24.6

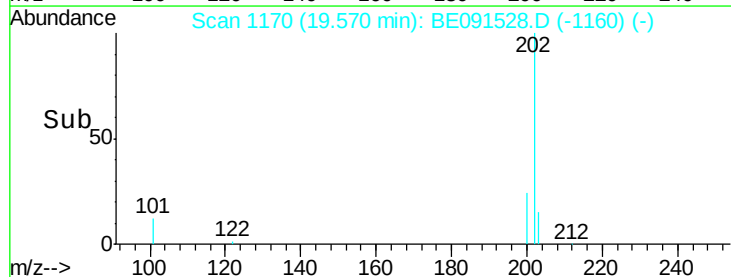
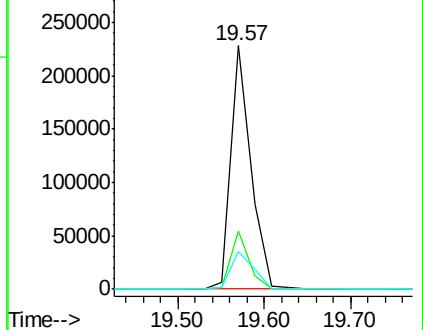
203 17.3 14.6 21.8

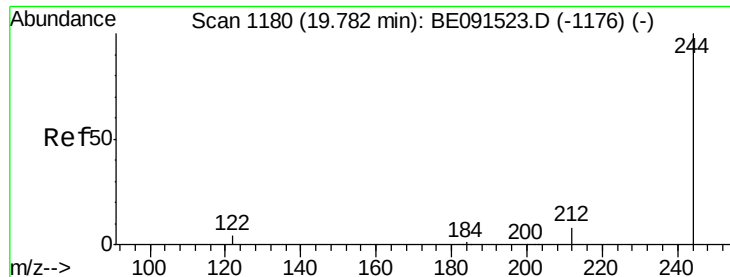


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#24

Terphenyl-d14

Concen: 7.00 ng

RT: 19.78 min Scan# 1181

Delta R.T. -0.00 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

Instrument :

BNA_E

ClientSampleId :

SSTDICC005

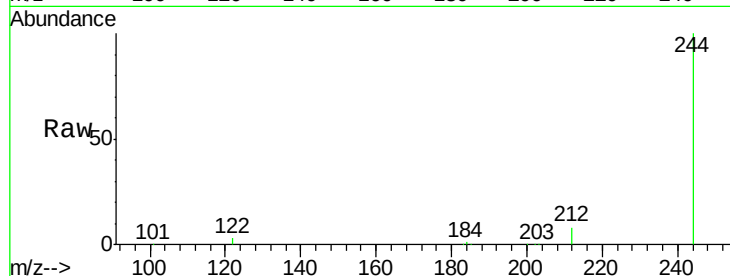
Tot Ion:244 Resp: 255083

Ion Ratio Lower Upper

244 100

212 8.4 5.8 8.8

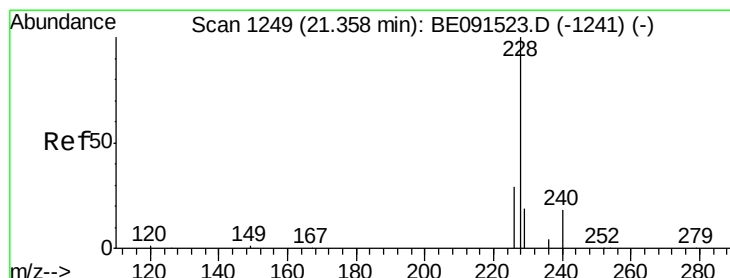
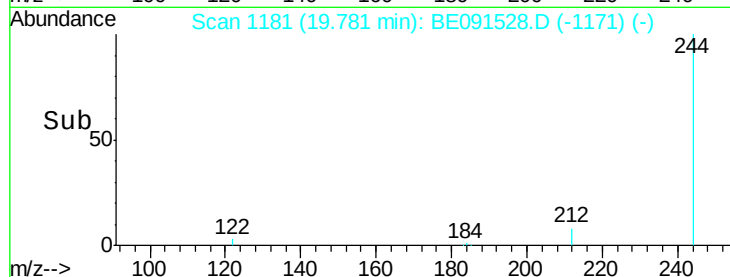
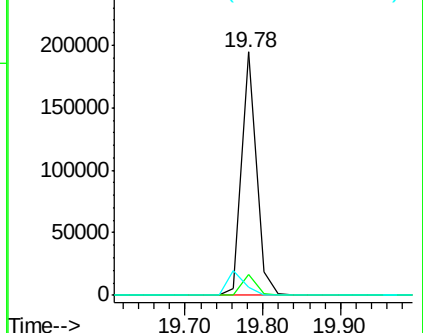
122 3.1 1.8 2.8#



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



#25

Benzo(a)anthracene

Concen: 4.27 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

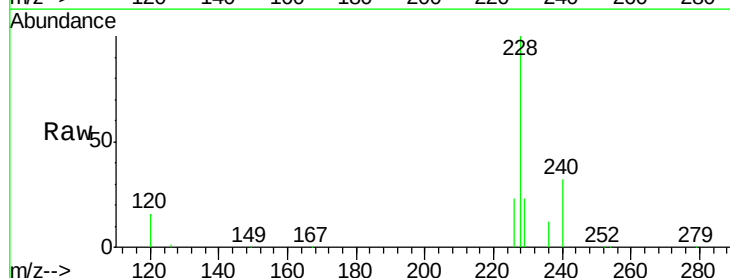
Tgt Ion:228 Resp: 356019

Ion Ratio Lower Upper

228 100

226 22.6 24.0 36.0#

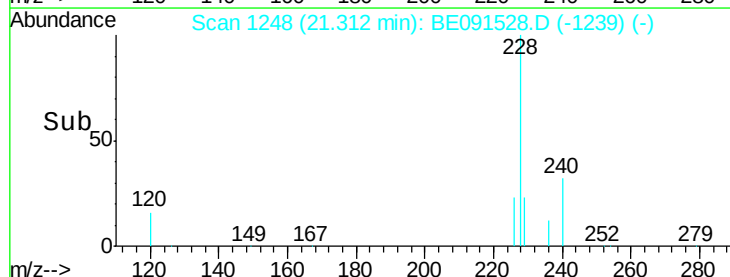
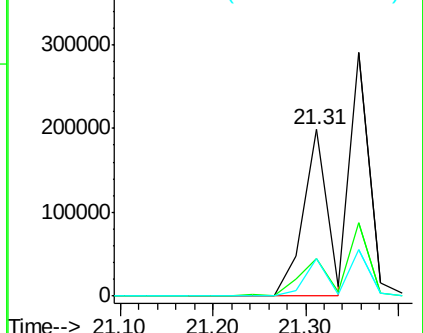
229 22.9 13.8 20.6#

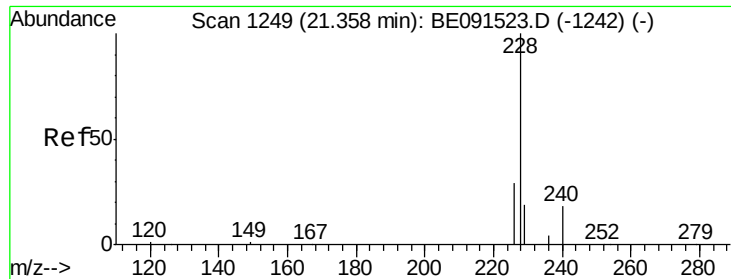


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#26

Chrysene

Concen: 5.04 ng/mL

RT: 21.36 min Scan# 1250

Delta R.T. -0.00 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

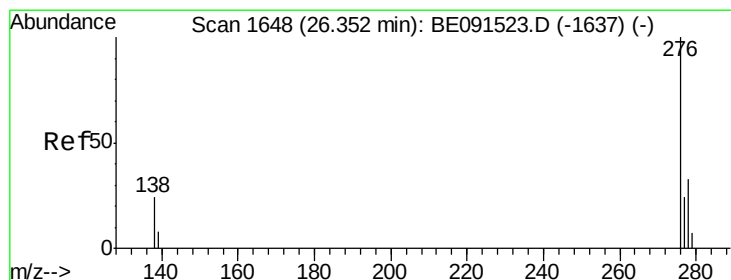
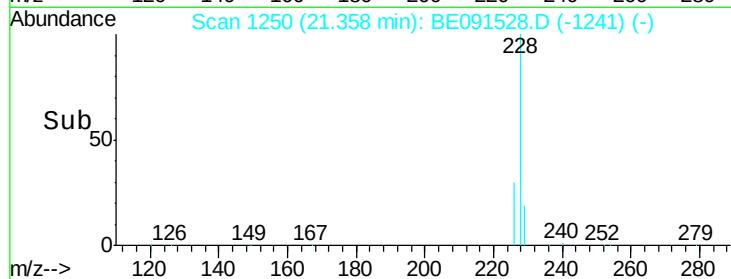
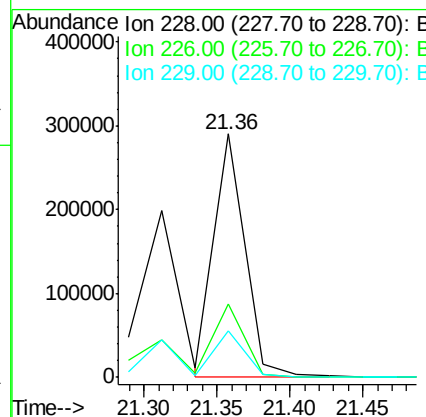
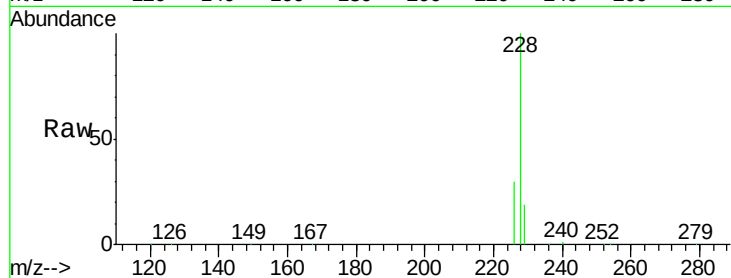
Tot Ion:228 Resp: 429751

Ion Ratio Lower Upper

228 100

226 30.3 18.9 28.3#

229 19.0 19.1 28.7#



#27

Indeno(1,2,3-cd)pyrene

Concen: 4.41 ng/mL

RT: 26.35 min Scan# 1649

Delta R.T. -0.02 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

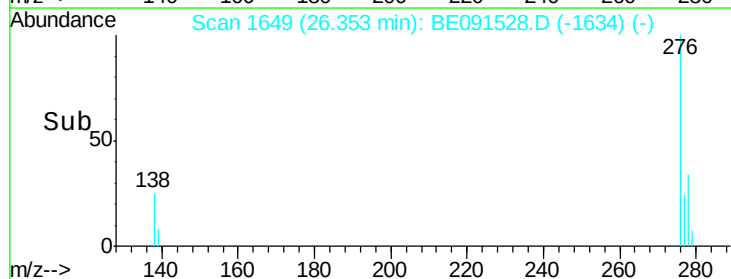
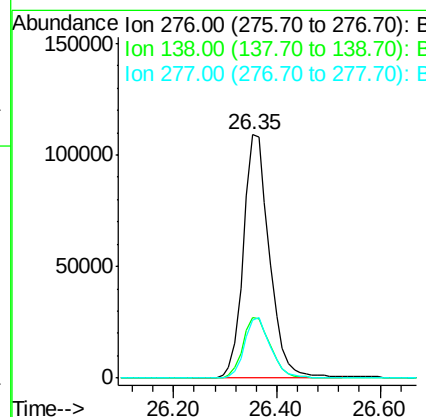
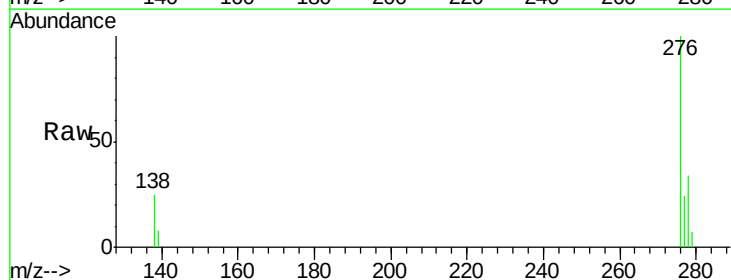
Tgt Ion:276 Resp: 383261

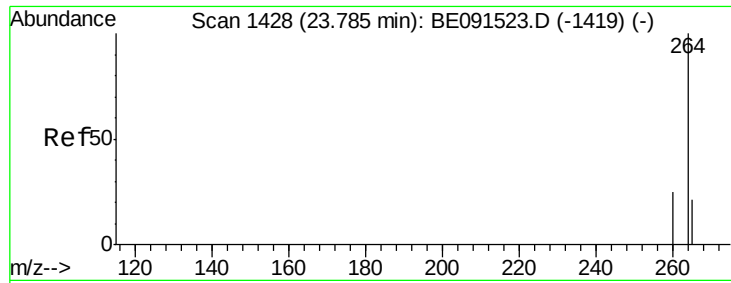
Ion Ratio Lower Upper

276 100

138 26.4 20.2 30.4

277 24.9 19.8 29.8

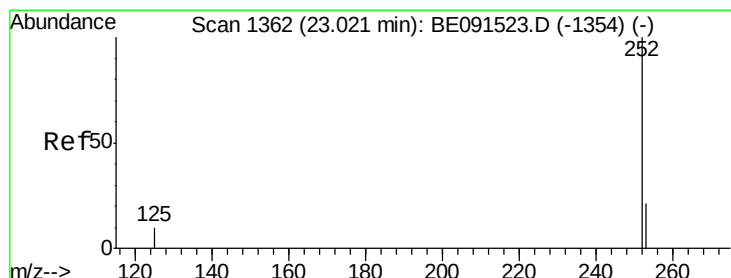
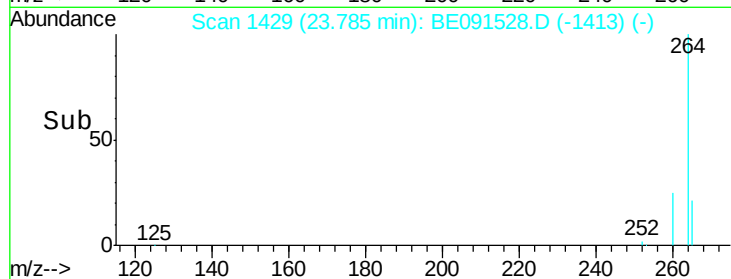
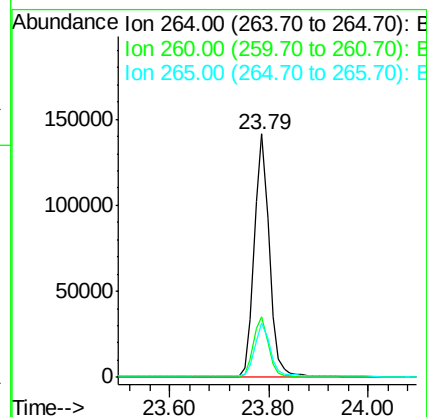
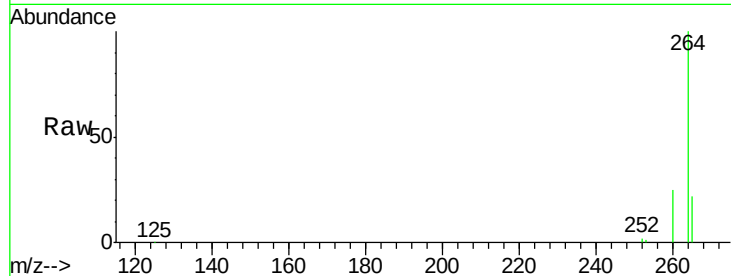




#28
Pervlene-d12
Concen: 5.00 ng
RT: 23.79 min Scan# 1429
Delta R.T. -0.01 min
Lab File: BE091528.D
Acq: 25 Mar 2016 17:12

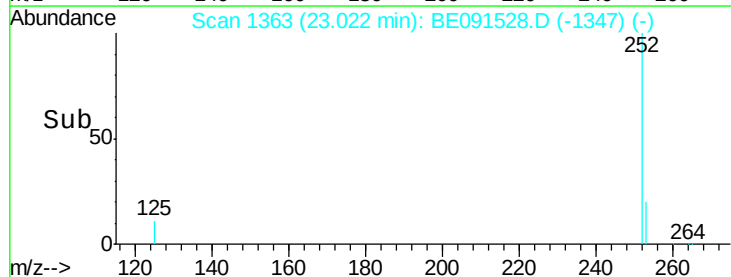
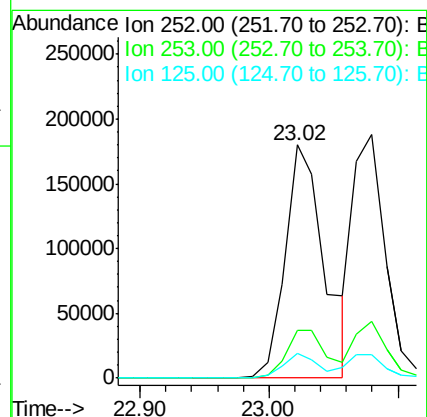
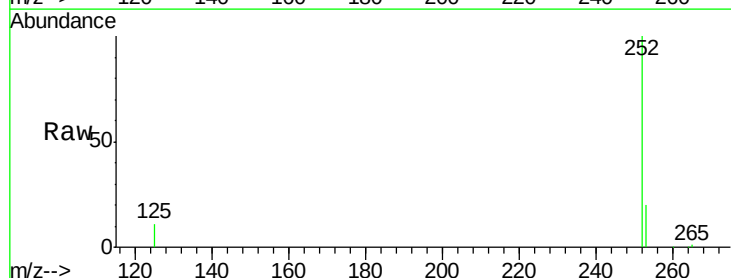
Instrument :
BNA_E
ClientSampleId :
SSTDIC005

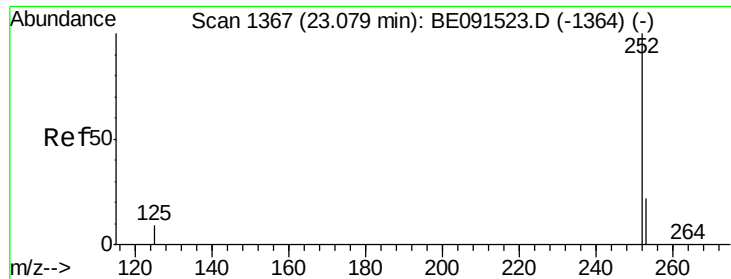
Tot Ion:264 Resp: 303522
Ion Ratio Lower Upper
264 100
260 24.8 20.1 30.1
265 22.1 18.3 27.5



#29
Benzo(b)fluoranthene
Concen: 3.98 ng
RT: 23.02 min Scan# 1363
Delta R.T. -0.01 min
Lab File: BE091528.D
Acq: 25 Mar 2016 17:12

Tgt Ion:252 Resp: 381378
Ion Ratio Lower Upper
252 100
253 20.4 18.7 28.1
125 10.8 9.8 14.6





#30

Benzo(k)fluoranthene

Concen: 3.37 ng

RT: 23.08 min Scan# 1368

Delta R.T. 0.00 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

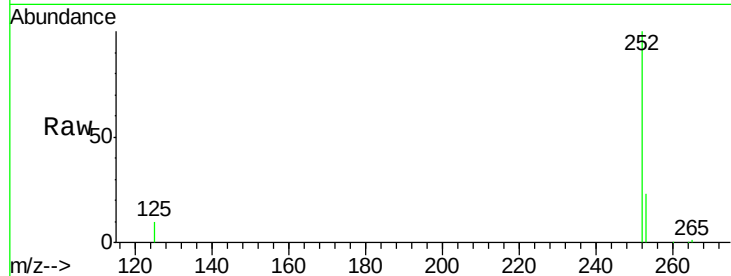
Tot Ion:252 Resp: 330410

Ion Ratio Lower Upper

252 100

253 23.1 20.2 30.4

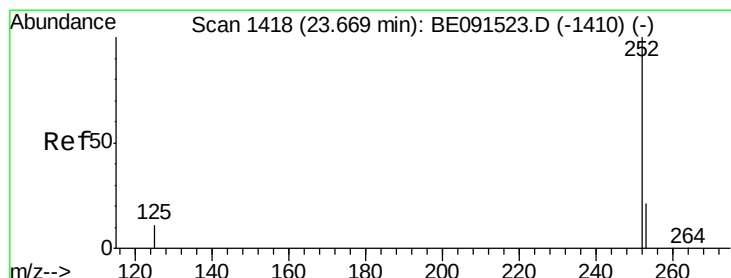
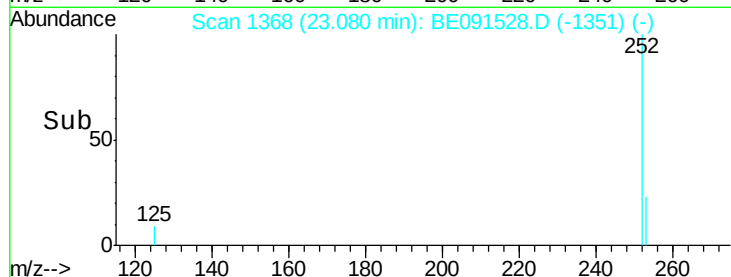
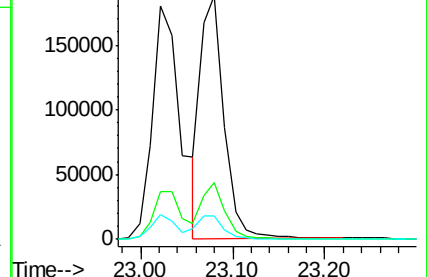
125 9.6 9.4 14.2



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



#31

Benzo(a)pyrene

Concen: 3.72 ng

RT: 23.67 min Scan# 1419

Delta R.T. -0.01 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

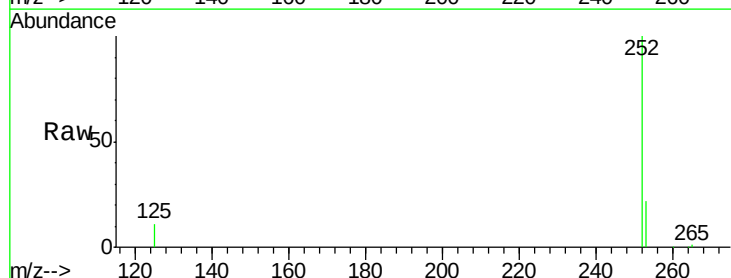
Tgt Ion:252 Resp: 314591

Ion Ratio Lower Upper

252 100

253 21.9 19.4 29.0

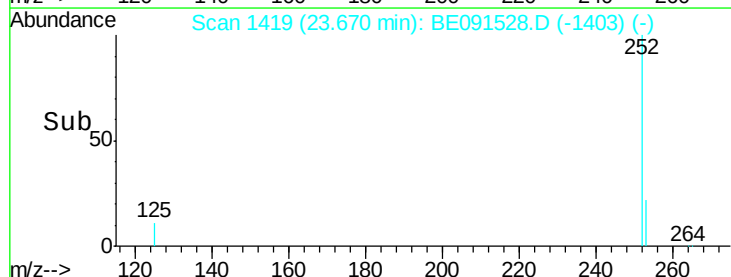
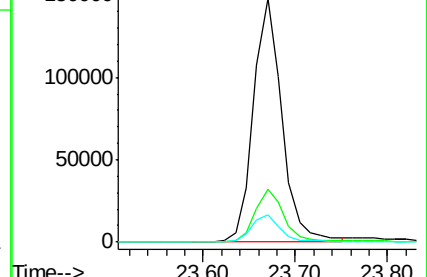
125 11.1 11.4 17.2#

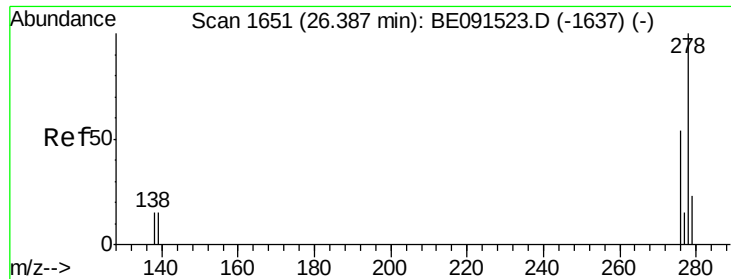


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#32

Dibenzo(a,h)anthracene

Concen: 3.95 ng

RT: 26.39 min Scan# 1652

Delta R.T. -0.01 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

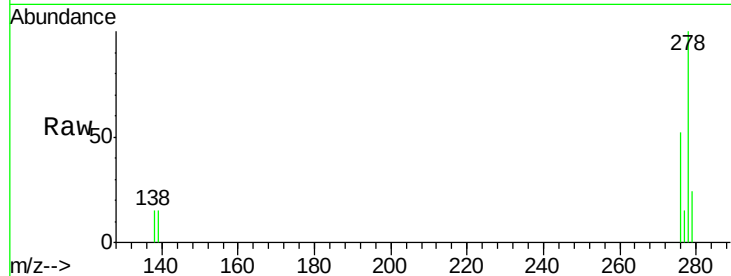
Tot Ion:278 Resp: 328927

Ion Ratio Lower Upper

278 100

139 15.0 14.2 21.4

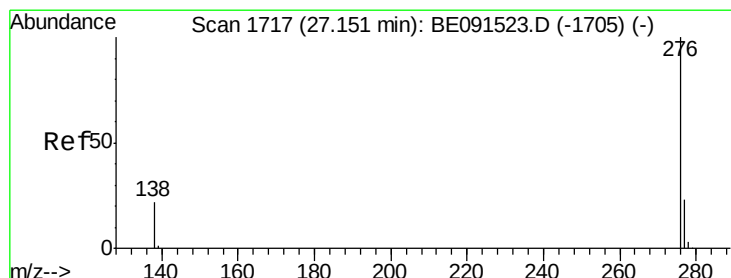
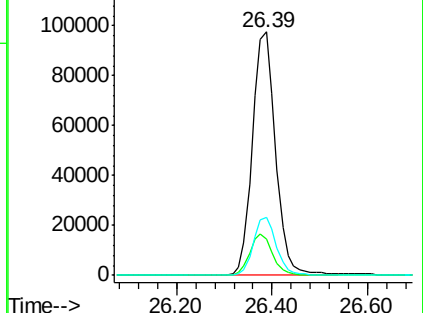
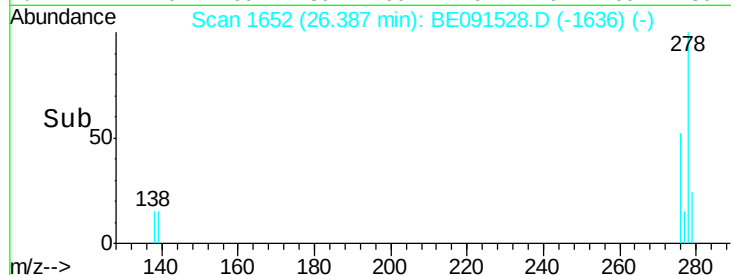
279 24.0 19.6 29.4



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



#33

Benzo(g,h,i)perylene

Concen: 3.80 ng

RT: 27.15 min Scan# 1718

Delta R.T. -0.01 min

Lab File: BE091528.D

Acq: 25 Mar 2016 17:12

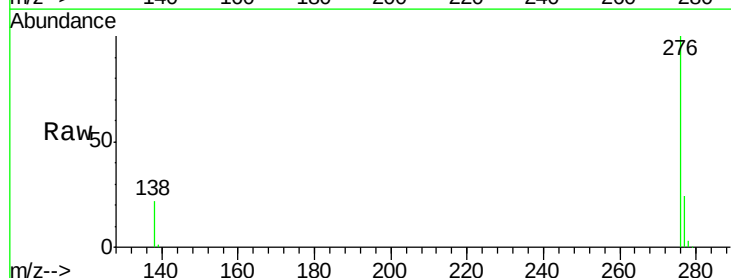
Tgt Ion:276 Resp: 329038

Ion Ratio Lower Upper

276 100

277 23.8 19.4 29.2

138 22.1 18.2 27.4



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

