

Data Path : Z:\HPCHEM1\BNA E\DATA\BE062416\
 Data File : BE091946.D
 Acq On : 24 Jun 2016 14:48
 Operator : UM/SJ
 Sample : H3676-04
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 NCHC-011

Quant Time: Jun 24 17:30:30 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE061416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 15 12:00:38 2016
 Response via : Initial Calibration

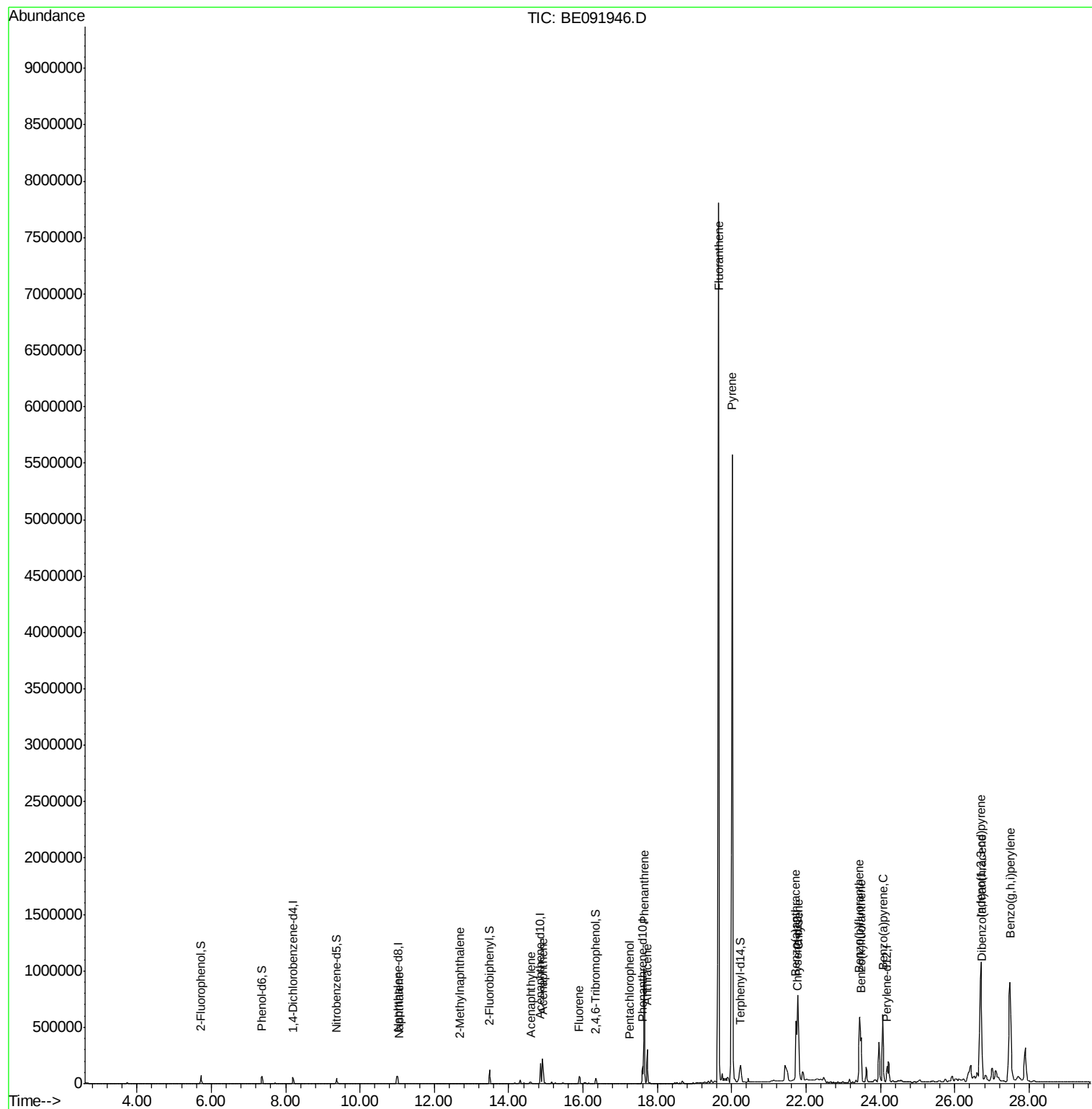
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.20	152	32977	5.00	ng	0.00
8) Naphthalene-d8	11.02	136	156914	5.00	ng	0.03
15) Acenaphthene-d10	14.86	164	106284	5.00	ng	0.00
24) Phenanthrene-d10	17.61	188	200781	5.00	ng	0.00
31) Chrysene-d12	21.76	240	246851	5.00	ng	0.00
40) Perylene-d12	24.17	264	199435	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.72	112	57051	8.85	ng	0.00
5) Phenol-d6	7.37	99	89519	8.45	ng	0.02
9) Nitrobenzene-d5	9.37	82	49048	4.53	ng	0.00
16) 2,4,6-Tribromophenol	16.35	330	23675	8.55	ng	0.00
17) 2-Fluorobiphenyl	13.49	172	116369	4.31	ng	0.00
34) Terphenyl-d14	20.22	244	150121	4.97	ng	0.00
Target Compounds						
12) Naphthalene	11.04	128	1656	0.05	ng	# 80
14) 2-Methylnaphthalene	12.68	142	1923	0.08	ng	# 92
18) Acenaphthylene	14.59	152	37479	0.35	ng	# 75
20) Acenaphthene	14.92	154	51831	1.74	ng	# 1
22) Fluorene	15.90	166	60825	2.06	ng	99
27) Pentachlorophenol	17.26	266	219	0.17	ng	91
28) Phenanthrene	17.64	178	1109874	22.12	ng	99
29) Anthracene	17.73	178	320790	7.22	ng	97
30) Fluoranthene	19.65	202	9825256	45.70	ng	# 88
33) Pyrene	20.02	202	7961875	47.41	ng	# 71
35) Benzo(a)anthracene	21.73	228	822867m	21.22	ng	
37) Chrysene	21.79	228	898212m	15.86	ng	
39) Indeno(1,2,3-cd)pyrene	26.70	276	2276709	11.75	ng	98
41) Benzo(b)fluoranthene	23.43	252	1248335m	24.38	ng	
42) Benzo(k)fluoranthene	23.48	252	403705m	8.62	ng	
43) Benzo(a)pyrene	24.07	252	917503	20.51	ng	98
44) Dibenzo(a,h)anthracene	26.72	278	127511	2.93	ng	94
45) Benzo(g,h,i)perylene	27.48	276	2220214	12.35	ng	99

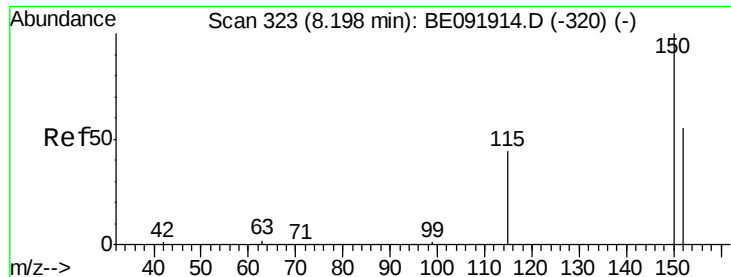
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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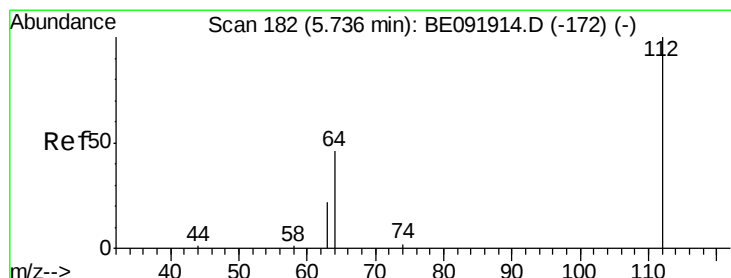
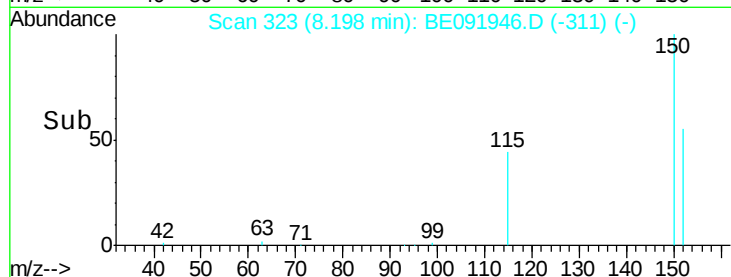
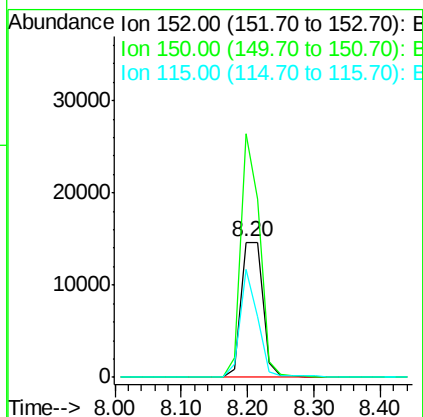
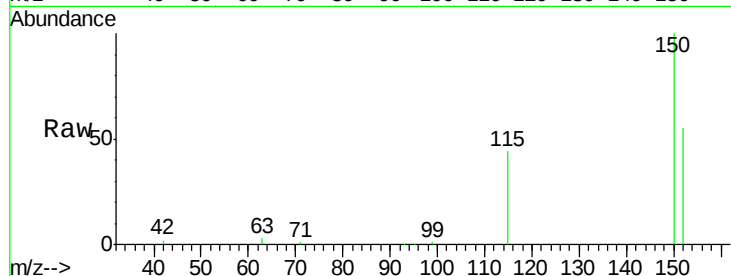


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 8.20 min Scan# 323
Delta R.T. -0.00 min
Lab File: BE091946.D
Acq: 24 Jun 2016 14:48

Instrument :
BNA_E
ClientSampleId :
NCHC-011

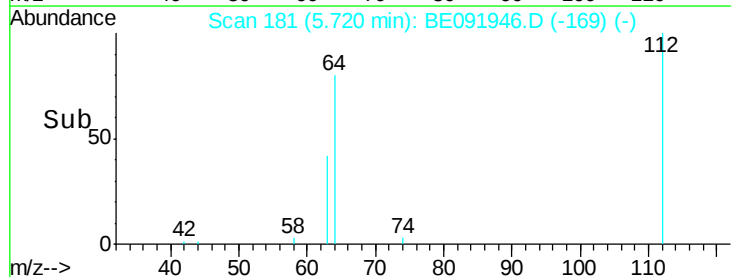
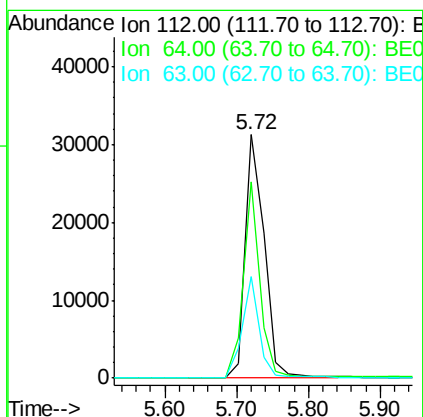
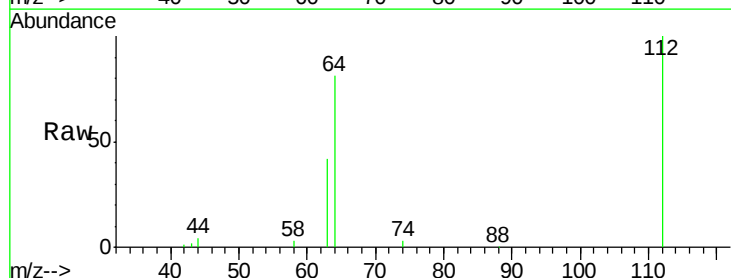
Tot Ion:152 Resp: 32977
Ion Ratio Lower Upper
152 100
150 180.4 123.9 185.9
115 79.8 48.3 72.5#

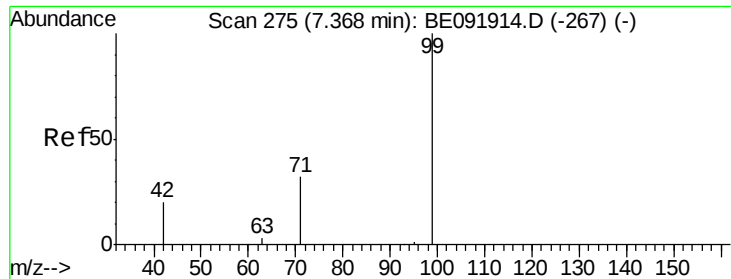


#4

2-Fluorophenol
Concen: 8.85 ng
RT: 5.72 min Scan# 181
Delta R.T. 0.00 min
Lab File: BE091946.D
Acq: 24 Jun 2016 14:48

Tgt Ion:112 Resp: 57051
Ion Ratio Lower Upper
112 100
64 69.5 53.7 80.5
63 36.9 29.5 44.3





#5

Phenol-d6

Concen: 8.45 ng

RT: 7.37 min Scan# 275

Delta R.T. 0.02 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

Instrument :

BNA_E

ClientSampleId :

NCHC-011

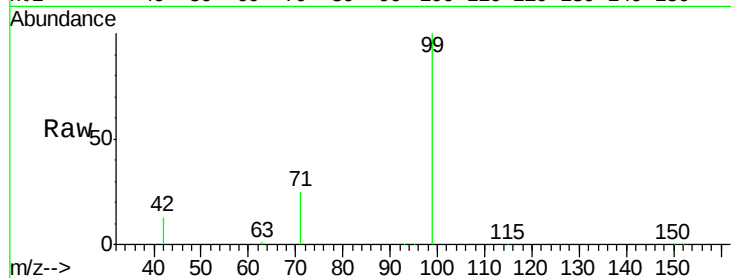
Tot Ion: 99 Resp: 89519

Ion Ratio Lower Upper

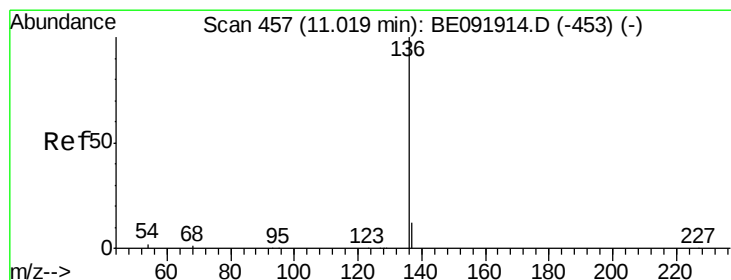
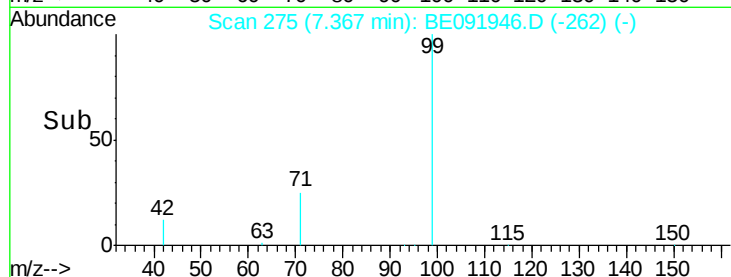
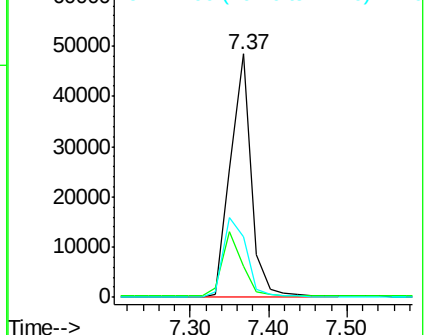
99 100

42 25.4 19.6 29.4

71 36.3 28.1 42.1



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



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 11.02 min Scan# 457

Delta R.T. 0.03 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

Tgt Ion: 136 Resp: 156914

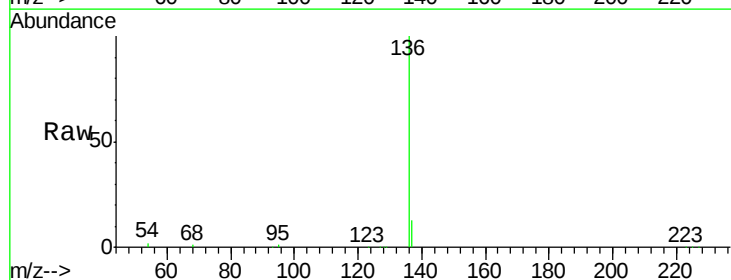
Ion Ratio Lower Upper

136 100

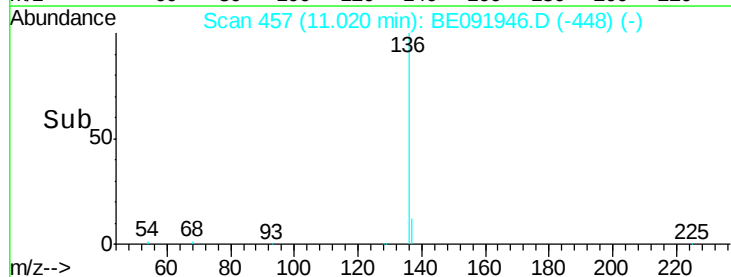
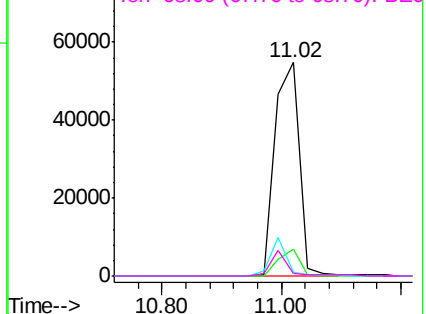
137 12.5 8.3 12.5#

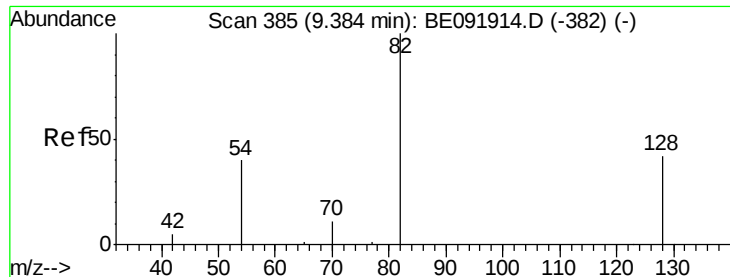
54 1.7 8.2 12.4#

68 1.5 5.9 8.9#



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





#9

Nitrobenzene-d5

Concen: 4.53 ng

RT: 9.37 min Scan# 384

Delta R.T. -0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

Instrument :

BNA_E

ClientSampleId :

NCHC-011

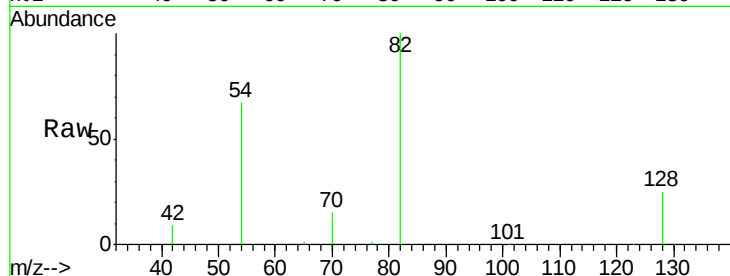
Tot Ion: 82 Resp: 49048

Ion Ratio Lower Upper

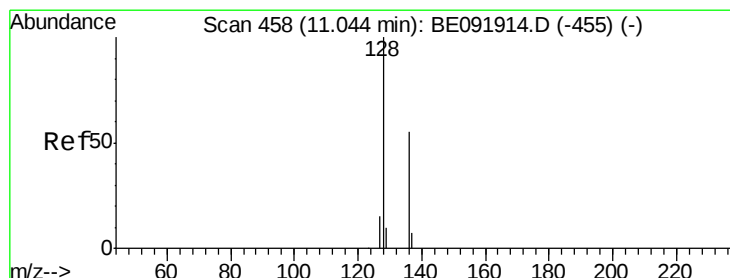
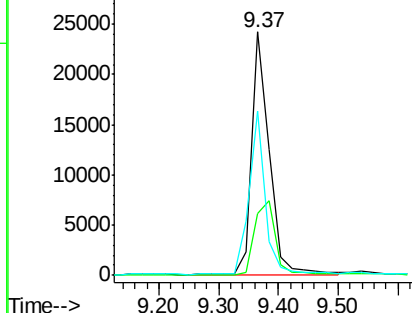
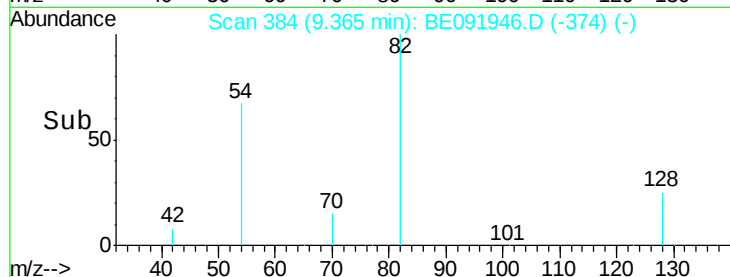
82 100

128 25.4 39.5 59.3#

54 67.3 30.3 45.5#



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



#12

Naphthalene

Concen: 0.05 ng

RT: 11.04 min Scan# 458

Delta R.T. 0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

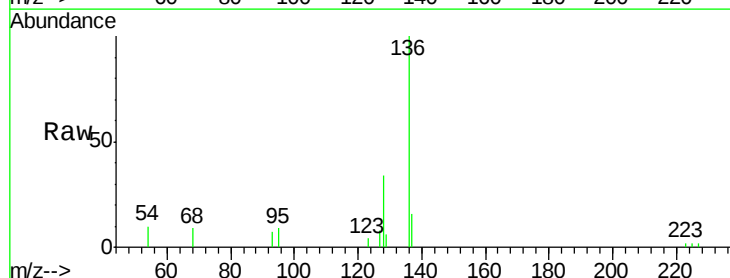
Tgt Ion: 128 Resp: 1656

Ion Ratio Lower Upper

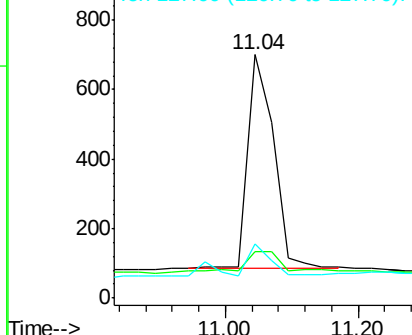
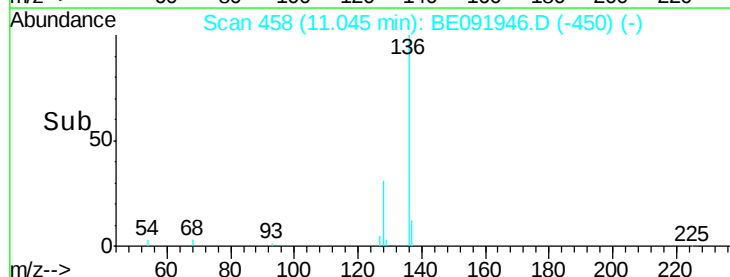
128 100

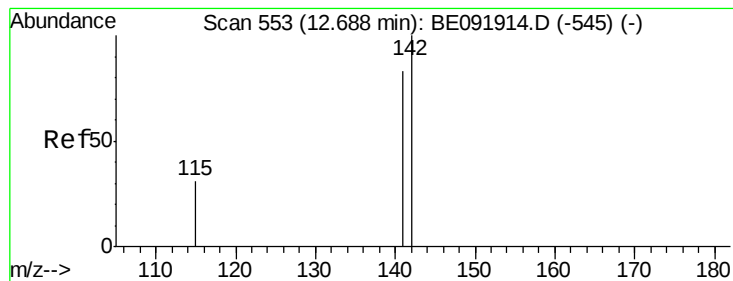
129 19.0 10.4 15.6#

127 22.4 10.2 15.2#



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





#14

2-Methylnaphthalene

Concen: 0.08 ng

RT: 12.68 min Scan# 552

Delta R.T. 0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

Instrument :

BNA_E

ClientSampled :

NCHC-011

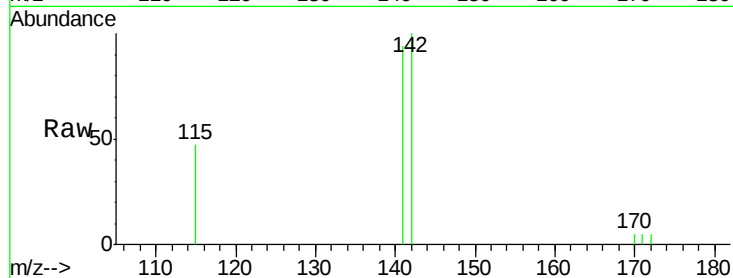
Tot Ion:142 Resp: 1923

Ion Ratio Lower Upper

142 100

141 93.5 71.9 107.9

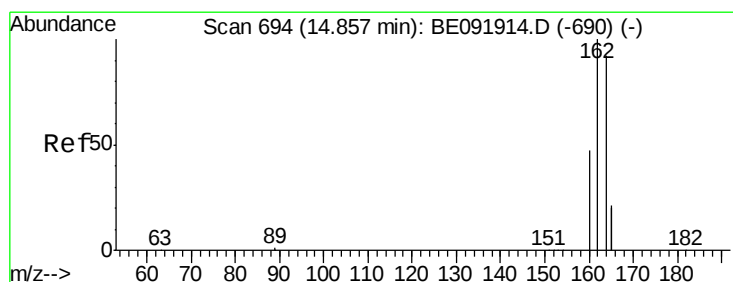
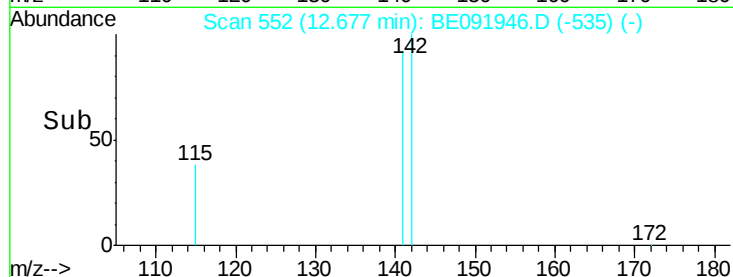
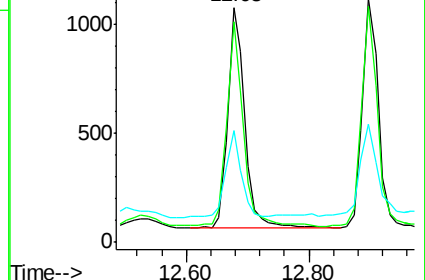
115 47.4 29.9 44.9#



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



#15

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.86 min Scan# 694

Delta R.T. -0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

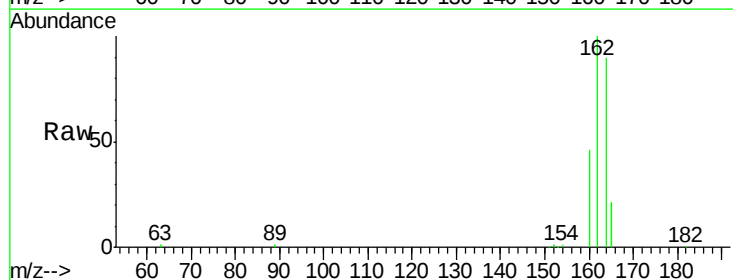
Tgt Ion:164 Resp: 106284

Ion Ratio Lower Upper

164 100

162 110.7 71.8 107.8#

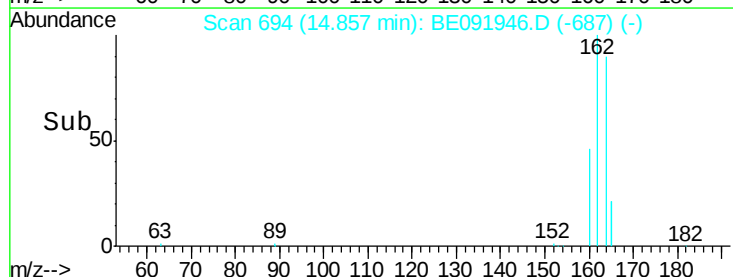
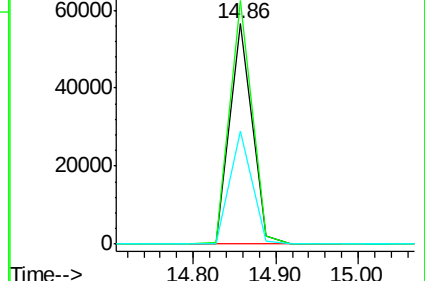
160 51.3 28.0 42.0#

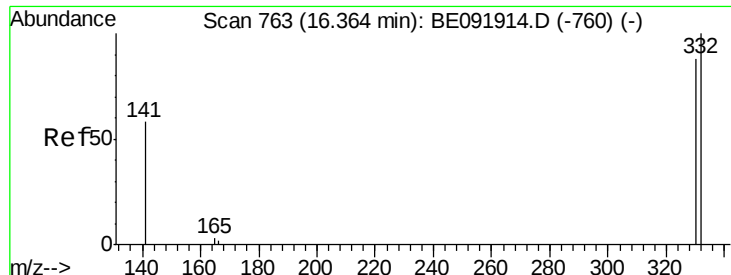


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

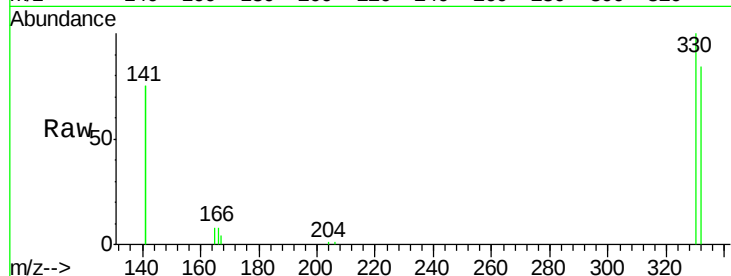




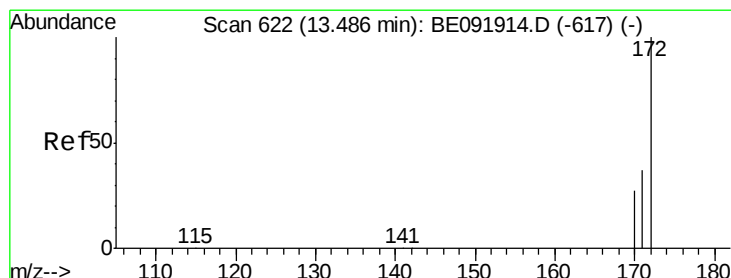
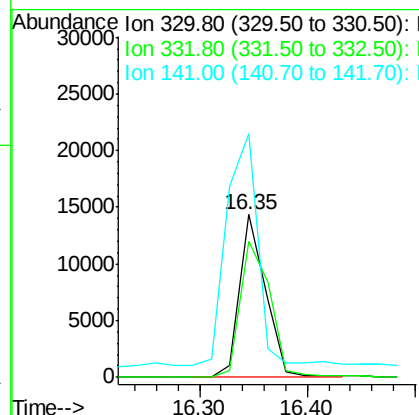
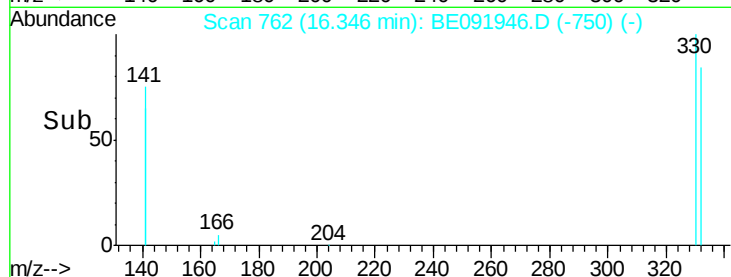
#16
 2,4,6-Tribromophenol
 Concen: 8.55 ng
 RT: 16.35 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: BE091946.D
 Acq: 24 Jun 2016 14:48

Instrument :
 BNA_E
 ClientSampleId :
 NCHC-011

Tot Ion:330 Resp: 23675
 Ion Ratio Lower Upper
 330 100
 332 95.4 77.0 115.6
 141 174.1 138.4 207.6

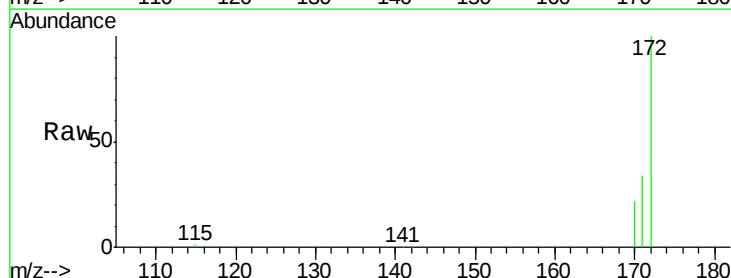


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

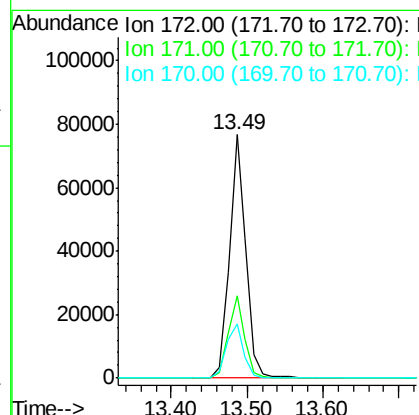
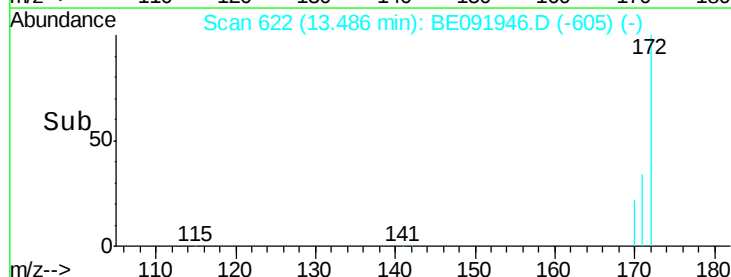


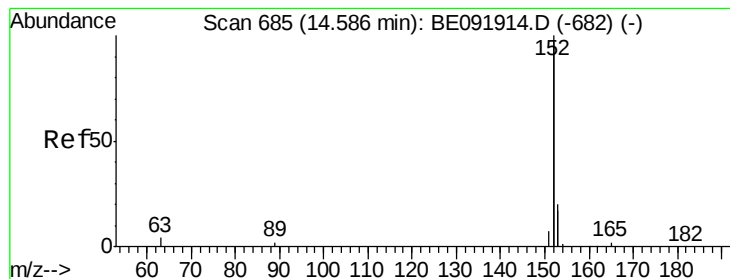
#17
 2-Fluorobiphenyl
 Concen: 4.31 ng
 RT: 13.49 min Scan# 622
 Delta R.T. 0.00 min
 Lab File: BE091946.D
 Acq: 24 Jun 2016 14:48

Tgt Ion:172 Resp: 116369
 Ion Ratio Lower Upper
 172 100
 171 33.7 24.3 36.5
 170 22.2 14.9 22.3



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





#18

Acenaphthylene

Concen: 0.35 ng

RT: 14.59 min Scan# 685

Delta R.T. 0.03 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

Instrument :

BNA_E

ClientSampleId :

NCHC-011

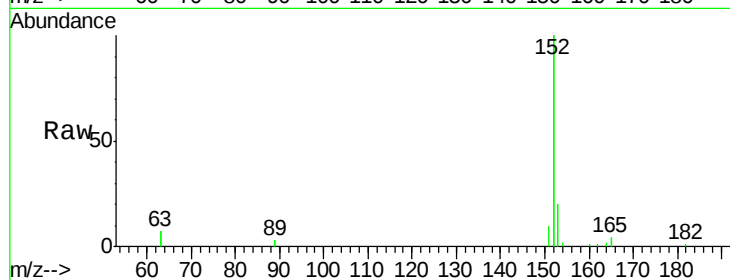
Tot Ion:152 Resp: 37479

Ion Ratio Lower Upper

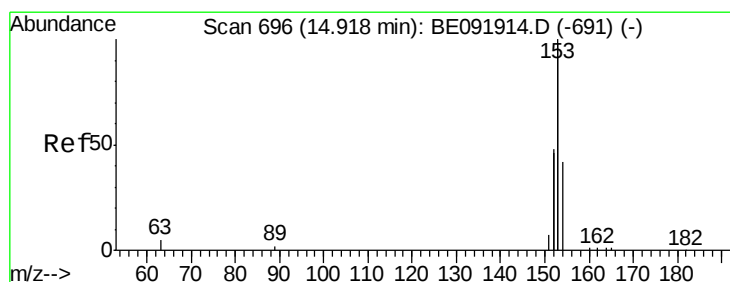
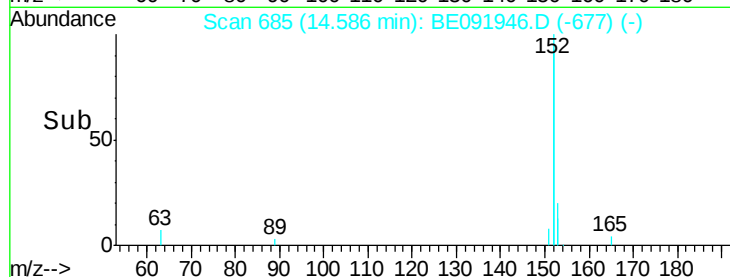
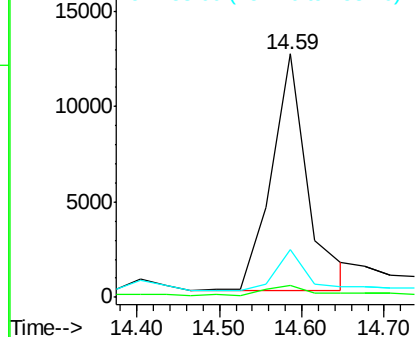
152 100

151 5.4 19.4 29.2#

153 15.0 14.4 21.6



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



#20

Acenaphthene

Concen: 1.74 ng

RT: 14.92 min Scan# 696

Delta R.T. -0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

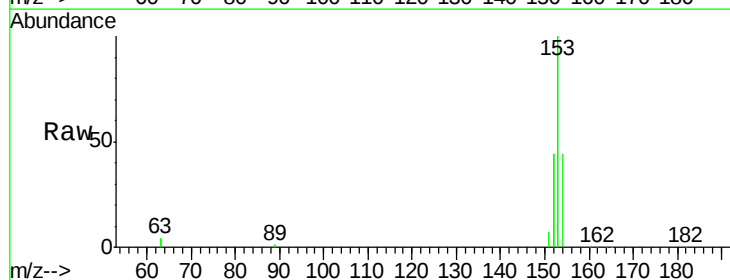
Tgt Ion:154 Resp: 51831

Ion Ratio Lower Upper

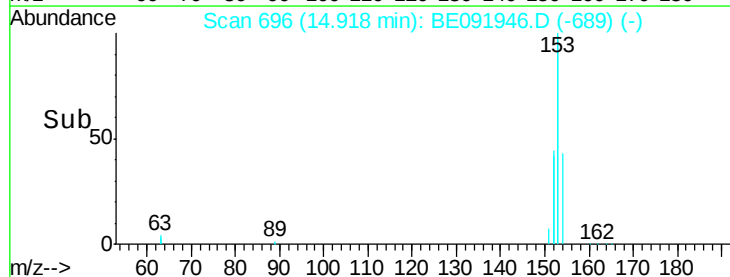
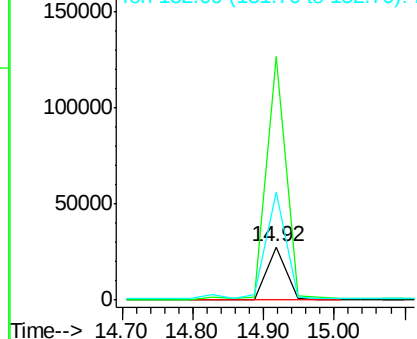
154 100

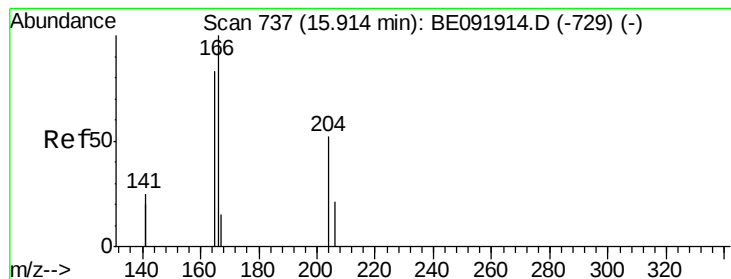
153 463.7 88.1 132.1#

152 208.6 44.2 66.2#



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





#22

Fluorene

Concen: 2.06 ng

RT: 15.90 min Scan# 736

Delta R.T. -0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

Instrument :

BNA_E

ClientSampleId :

NCHC-011

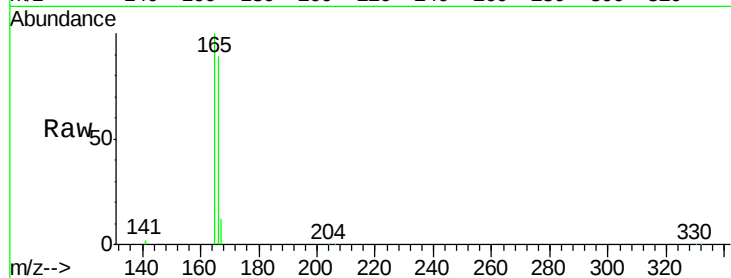
Tot Ion:166 Resp: 60825

Ion Ratio Lower Upper

166 100

165 99.2 78.6 117.8

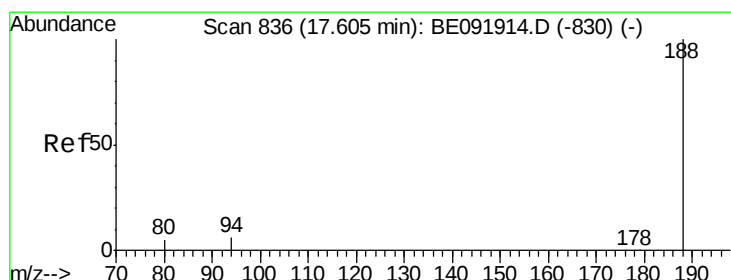
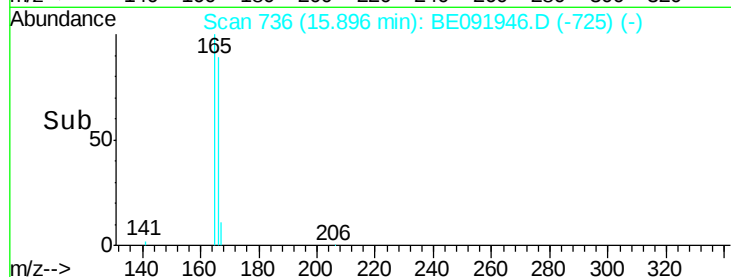
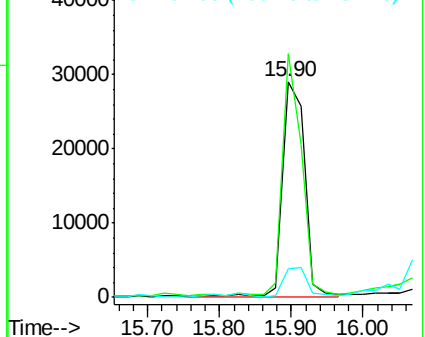
167 14.8 10.8 16.2



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



#24

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.61 min Scan# 836

Delta R.T. -0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

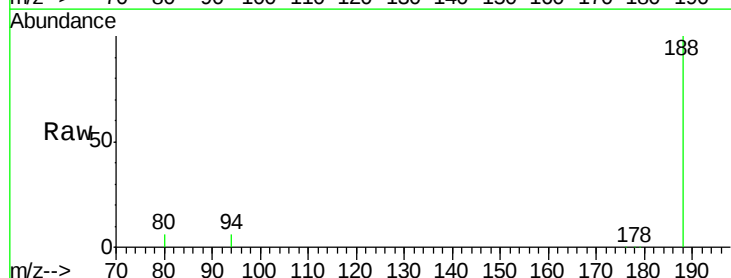
Tgt Ion:188 Resp: 200781

Ion Ratio Lower Upper

188 100

94 6.4 4.1 6.1#

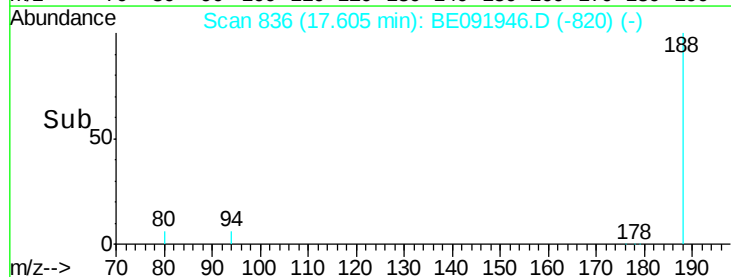
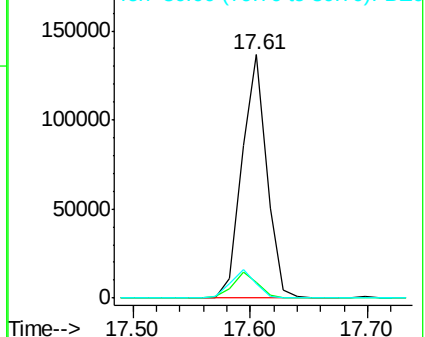
80 5.7 3.4 5.2#

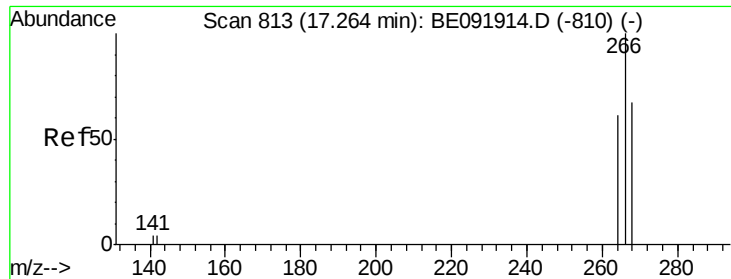


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#27

Pentachlorophenol

Concen: 0.17 ng

RT: 17.26 min Scan# 813

Delta R.T. 0.02 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

Instrument :

BNA_E

ClientSampleId :

NCHC-011

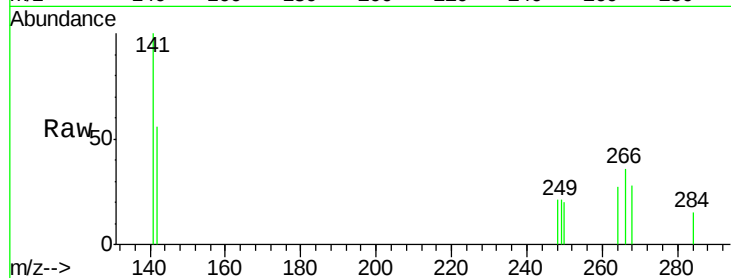
Tot Ion:266 Resp: 219

Ion Ratio Lower Upper

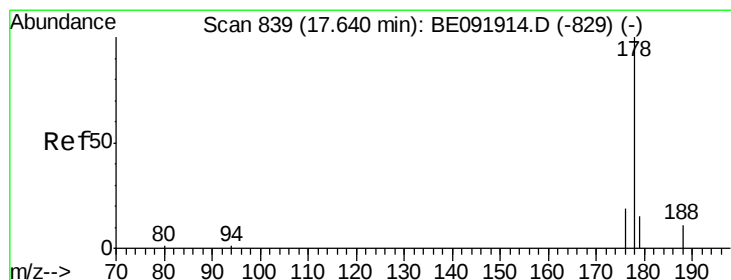
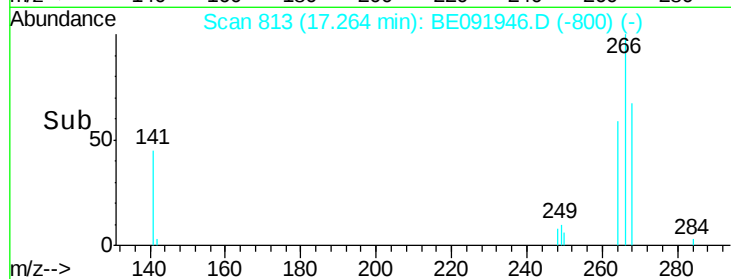
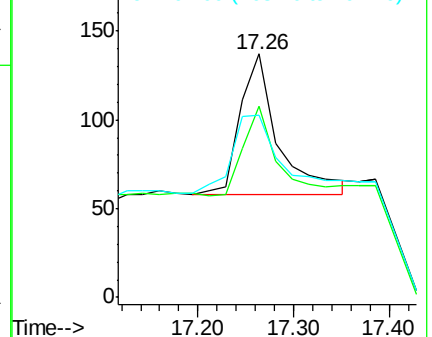
266 100

268 78.8 60.5 90.7

264 75.2 51.0 76.4



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



#28

Phenanthrene

Concen: 22.12 ng

RT: 17.64 min Scan# 839

Delta R.T. -0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

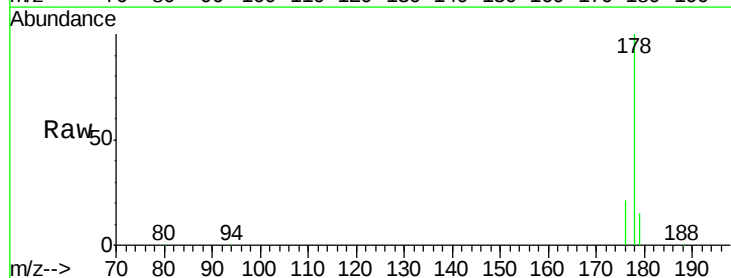
Tgt Ion:178 Resp: 1109874

Ion Ratio Lower Upper

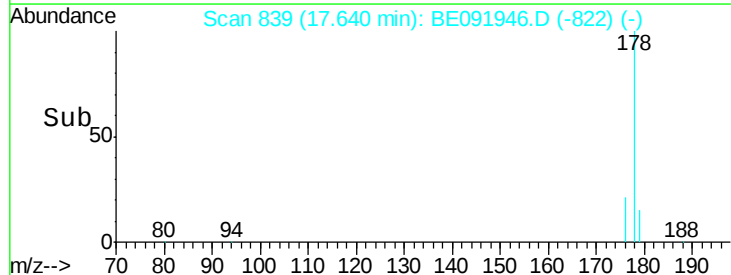
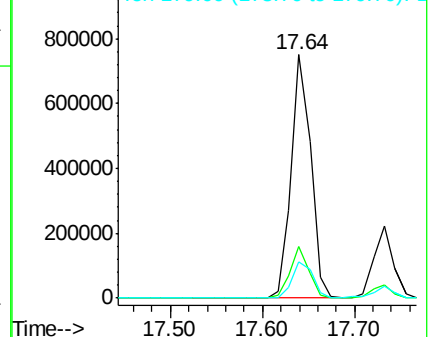
178 100

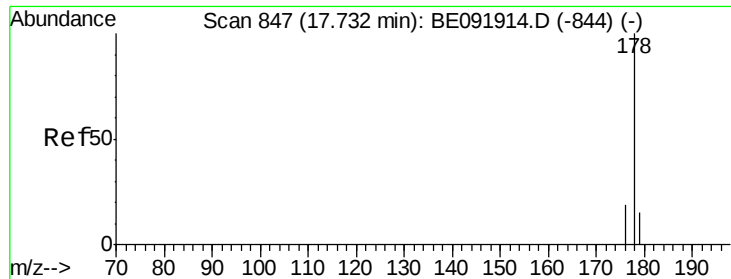
176 20.1 15.4 23.2

179 15.8 12.9 19.3



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





#29

Anthracene

Concen: 7.22 ng

RT: 17.73 min Scan# 847

Delta R.T. -0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

Instrument :

BNA_E

ClientSampleId :

NCHC-011

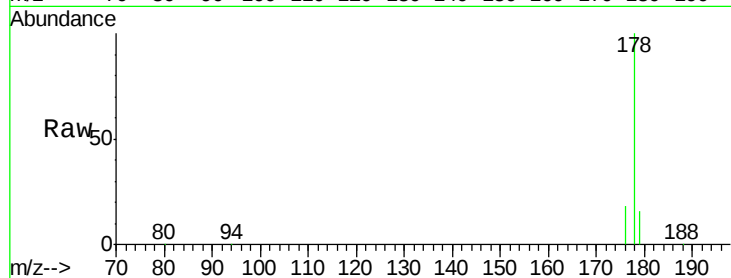
Tot Ion:178 Resp: 320790

Ion Ratio Lower Upper

178 100

176 19.5 15.1 22.7

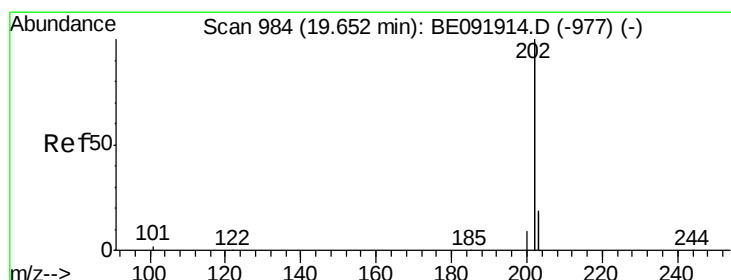
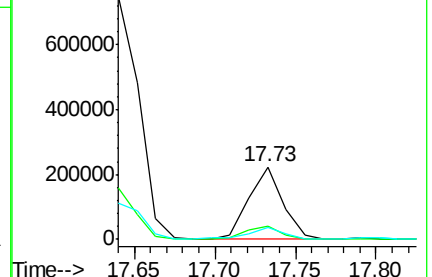
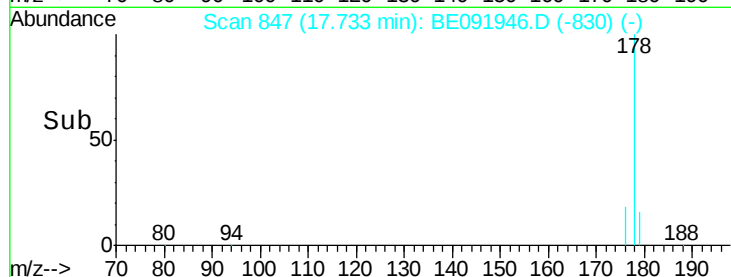
179 16.8 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#30

Fluoranthene

Concen: 45.70 ng

RT: 19.65 min Scan# 984

Delta R.T. 0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

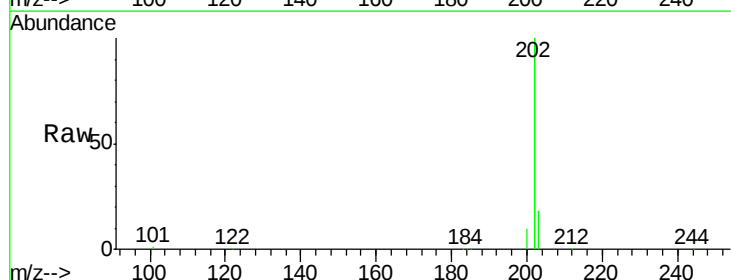
Tgt Ion:202 Resp: 9825256

Ion Ratio Lower Upper

202 100

101 0.0 9.4 14.0#

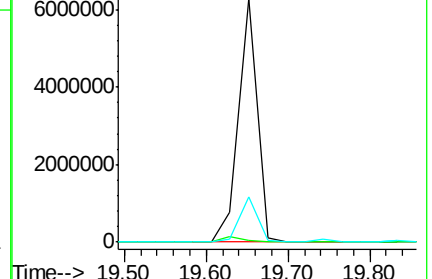
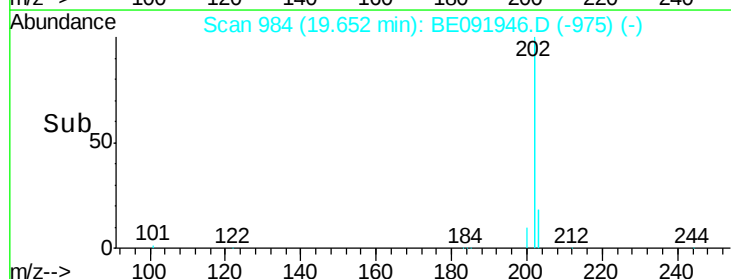
203 17.9 14.3 21.5

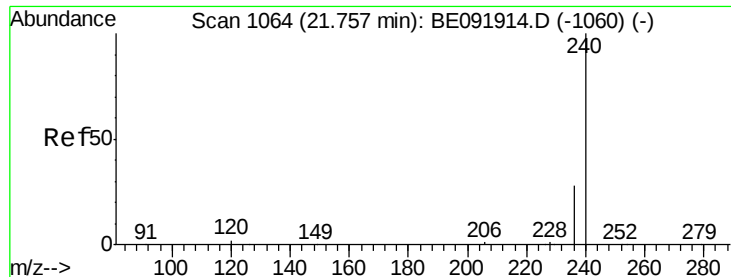


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

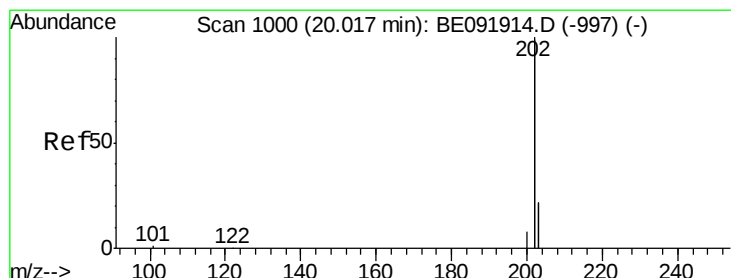
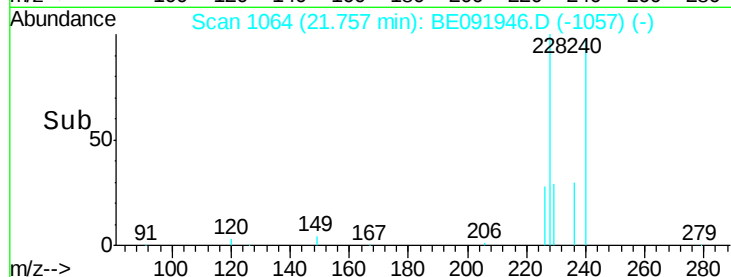
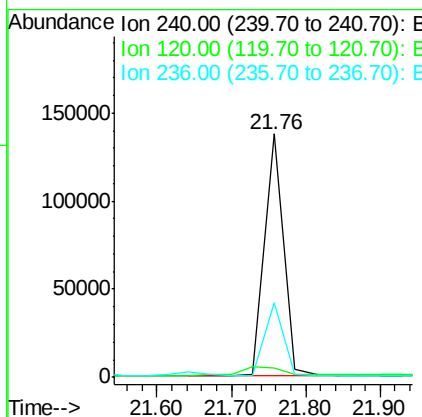
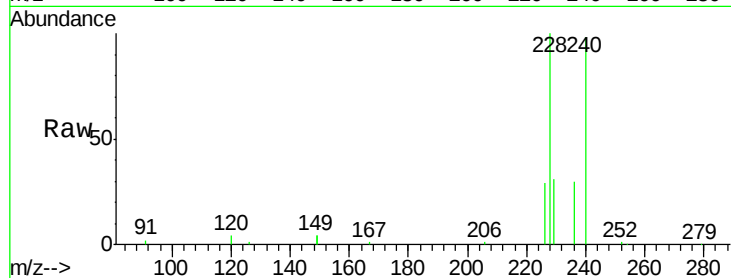




#31
Chrysene-d12
Concen: 5.00 ng
RT: 21.76 min Scan# 1064
Delta R.T. 0.00 min
Lab File: BE091946.D
Acq: 24 Jun 2016 14:48

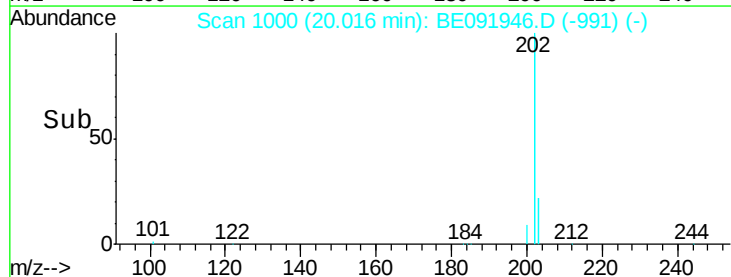
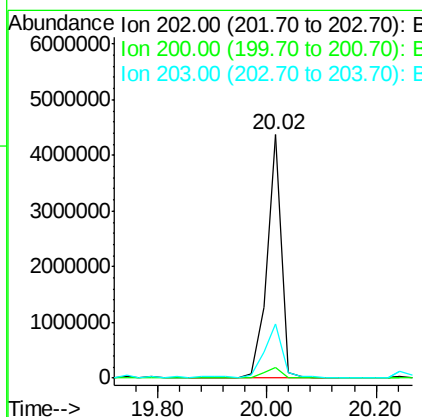
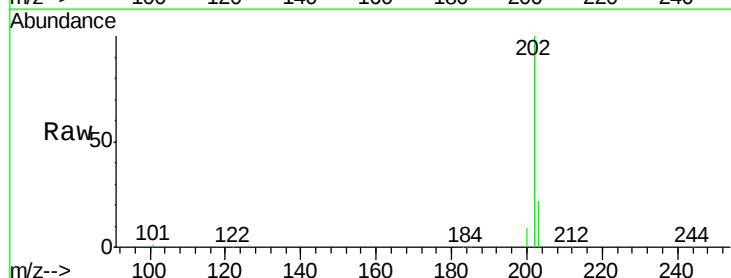
Instrument :
BNA_E
ClientSampleId :
NCHC-011

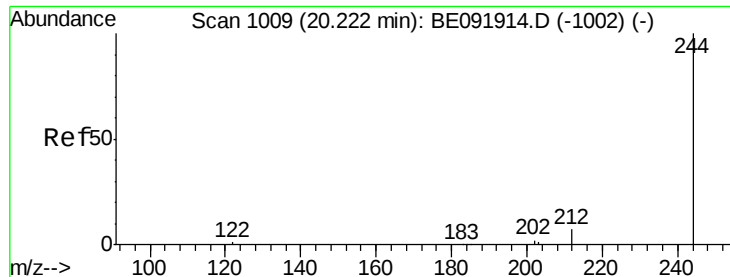
Tot Ion:240 Resp: 246851
Ion Ratio Lower Upper
240 100
120 3.6 1.2 1.8#
236 30.6 19.8 29.8#



#33
Pyrene
Concen: 47.41 ng
RT: 20.02 min Scan# 1000
Delta R.T. 0.00 min
Lab File: BE091946.D
Acq: 24 Jun 2016 14:48

Tgt Ion:202 Resp: 7961875
Ion Ratio Lower Upper
202 100
200 5.3 16.9 25.3#
203 27.5 14.1 21.1#





#34

Terphenyl-d14

Concen: 4.97 ng

RT: 20.22 min Scan# 1009

Delta R.T. 0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

Instrument :

BNA_E

ClientSampled :

NCHC-011

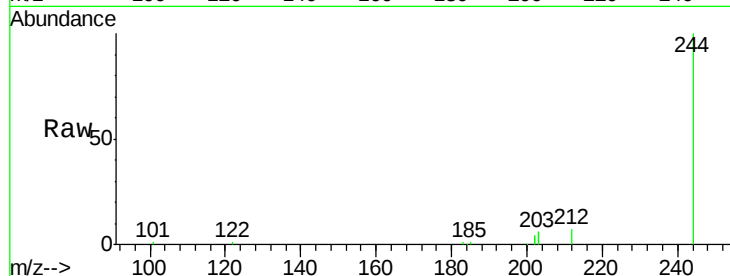
Tot Ion:244 Resp: 150121

Ion Ratio Lower Upper

244 100

212 7.0 6.5 9.7

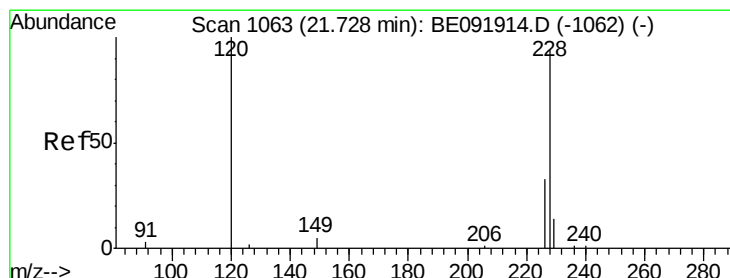
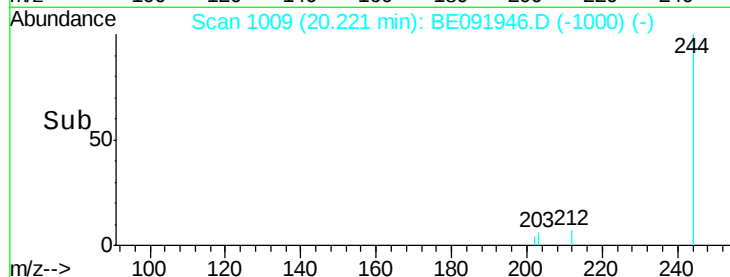
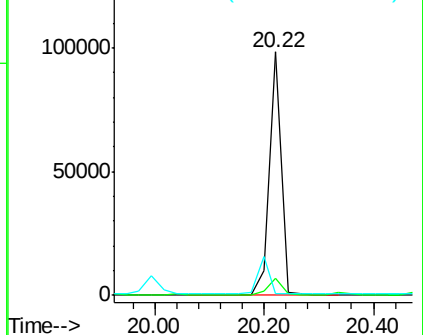
122 0.8 2.9 4.3#



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



#35

Benzo(a)anthracene

Concen: 21.22 ng m

RT: 21.73 min Scan# 1063

Delta R.T. 0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

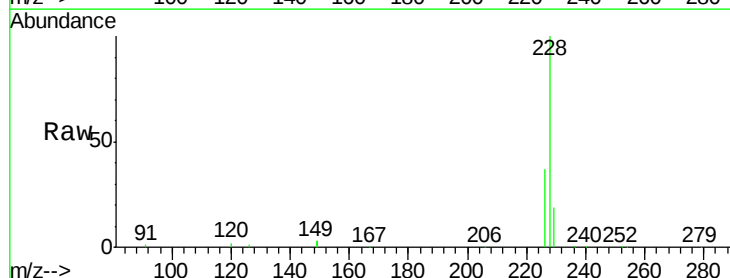
Tgt Ion:228 Resp: 822867

Ion Ratio Lower Upper

228 100

226 37.4 21.0 31.4#

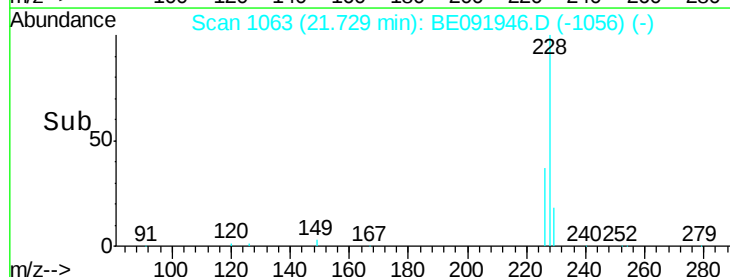
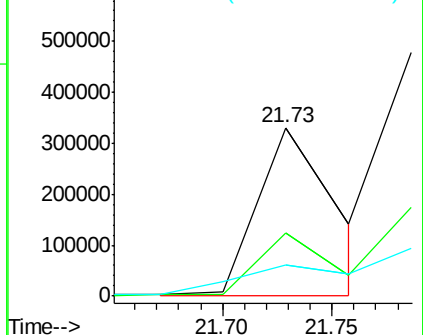
229 18.7 15.8 23.8

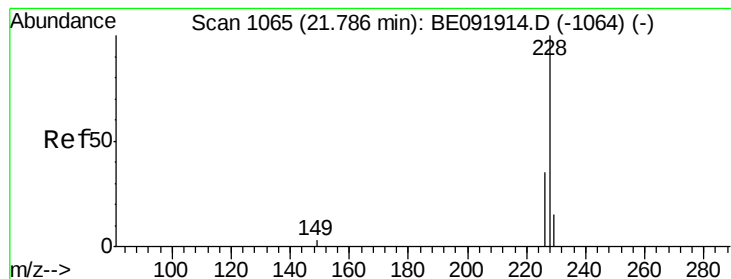


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#37

Chrysene

Concen: 15.86 ng/mL

RT: 21.79 min Scan# 1065

Delta R.T. 0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

Instrument :

BNA_E

ClientSampleId :

NCHC-011

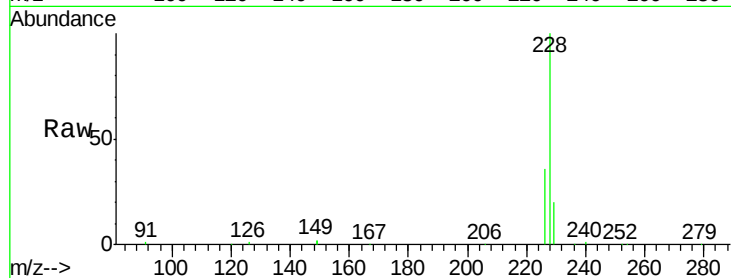
Tot Ion:228 Resp: 898212

Ion Ratio Lower Upper

228 100

226 36.2 27.0 40.6

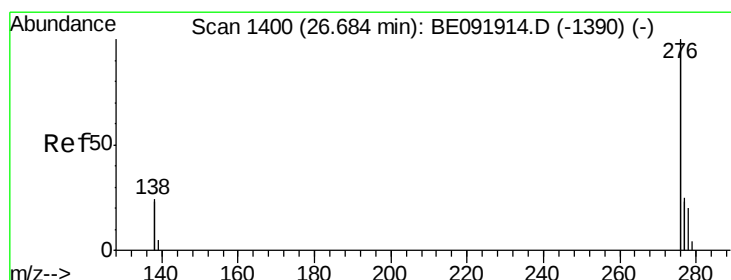
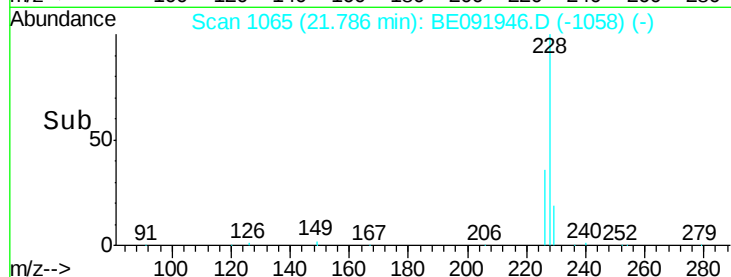
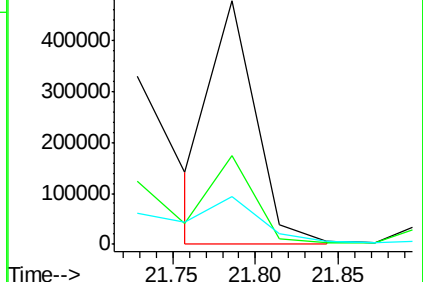
229 19.9 13.8 20.8



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



#39

Indeno(1,2,3-cd)pyrene

Concen: 11.75 ng/mL

RT: 26.70 min Scan# 1401

Delta R.T. 0.02 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

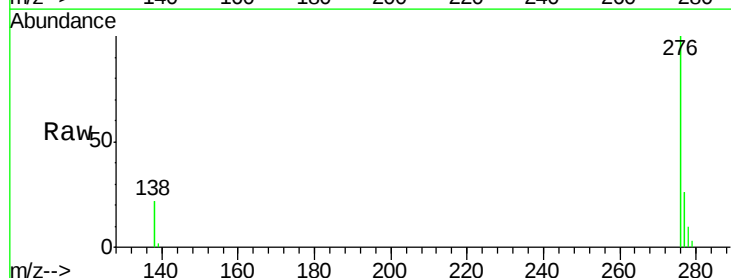
Tgt Ion:276 Resp: 2276709

Ion Ratio Lower Upper

276 100

138 23.7 19.7 29.5

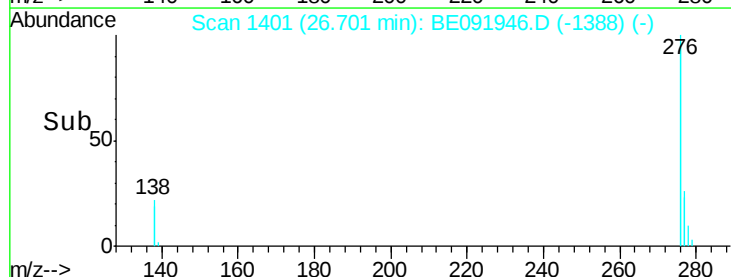
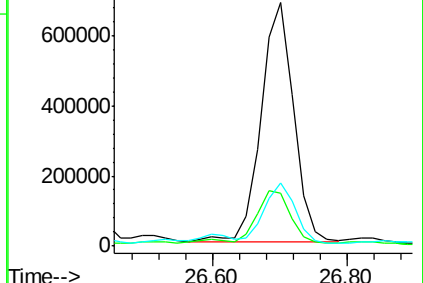
277 24.2 20.1 30.1

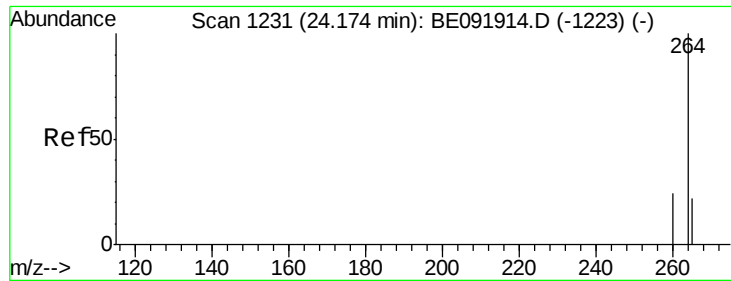


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



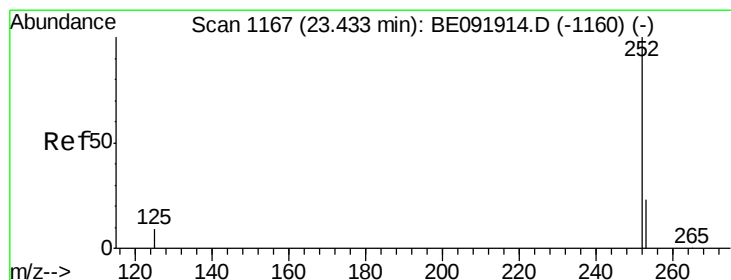
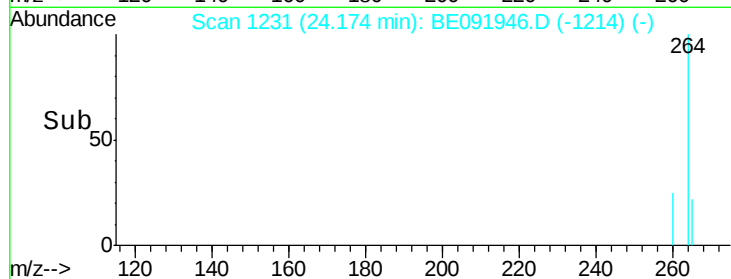
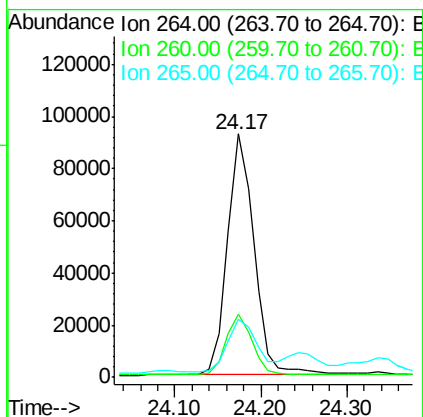
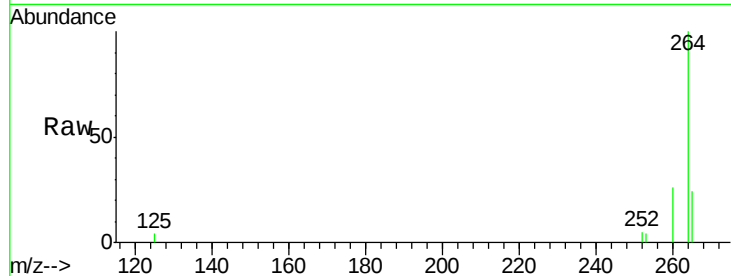


#40
Pervlene-d12
Concen: 5.00 ng
RT: 24.17 min Scan# 1231
Delta R.T. -0.00 min
Lab File: BE091946.D
Acq: 24 Jun 2016 14:48

Instrument :
BNA_E
ClientSampleId :
NCHC-011

Tot Ion:264 Resp: 199435

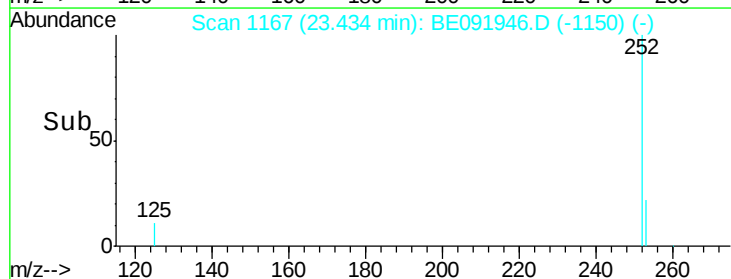
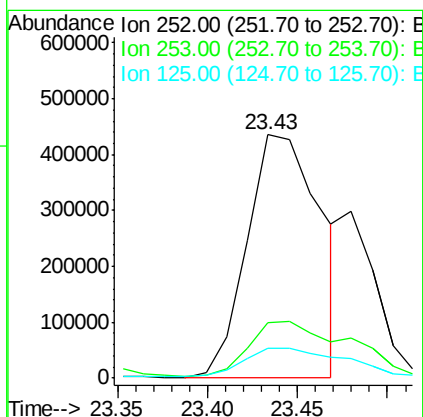
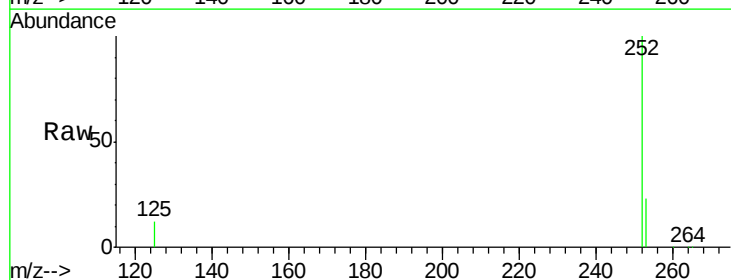
Ion	Ratio	Lower	Upper
264	100		
260	25.9	20.3	30.5
265	23.9	17.6	26.4

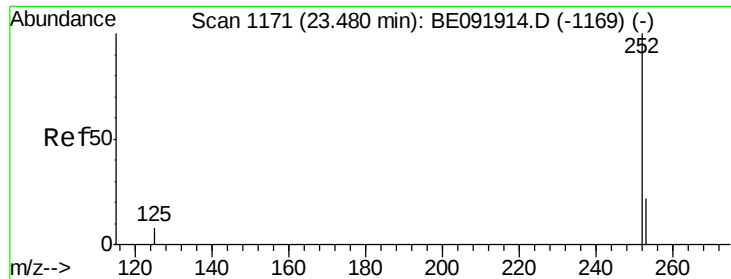


#41
Benzo(b)fluoranthene
Concen: 24.38 ng m
RT: 23.43 min Scan# 1167
Delta R.T. -0.00 min
Lab File: BE091946.D
Acq: 24 Jun 2016 14:48

Tgt Ion:252 Resp: 1248335

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.6
125	12.0	9.4	14.2





#42

Benzo(k)fluoranthene

Concen: 8.62 ng

RT: 23.48 min Scan# 1171

Delta R.T. -0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

Instrument :

BNA_E

ClientSampleId :

NCHC-011

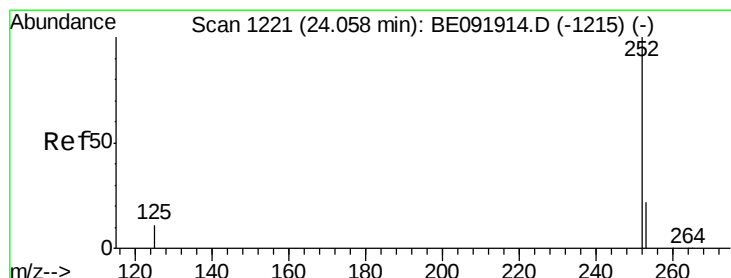
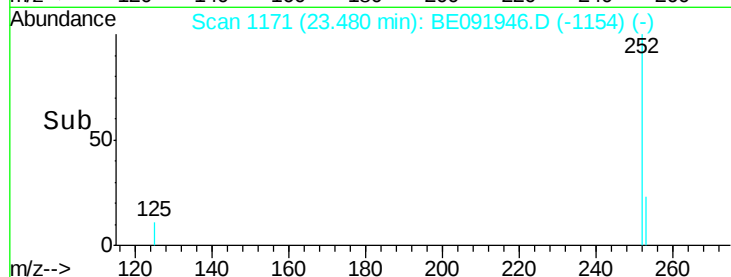
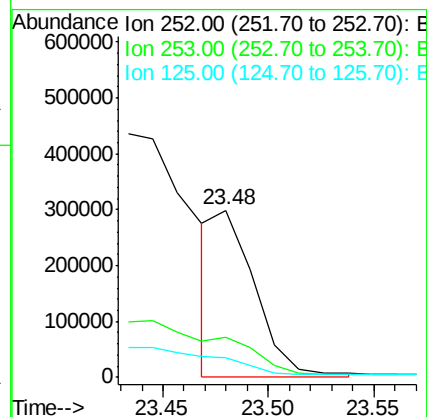
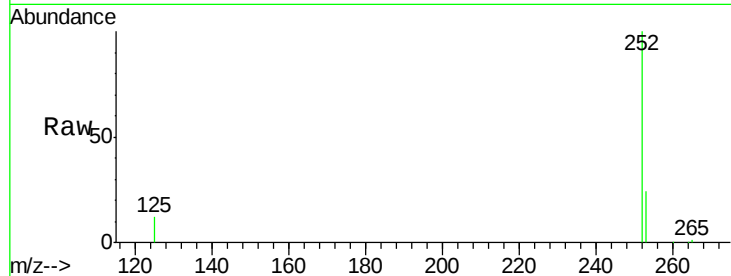
Tot Ion:252 Resp: 403705

Ion Ratio Lower Upper

252 100

253 23.9 19.4 29.2

125 11.8 8.3 12.5



#43

Benzo(a)pyrene

Concen: 20.51 ng

RT: 24.07 min Scan# 1222

Delta R.T. 0.01 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

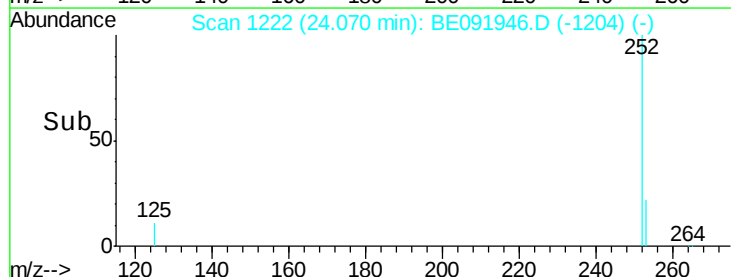
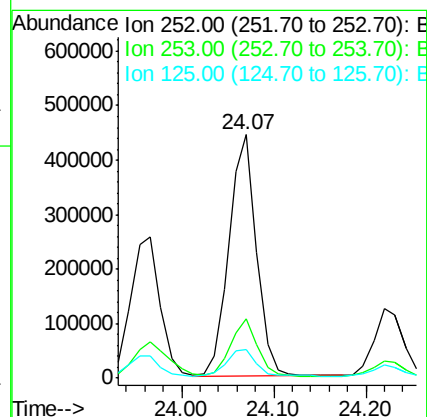
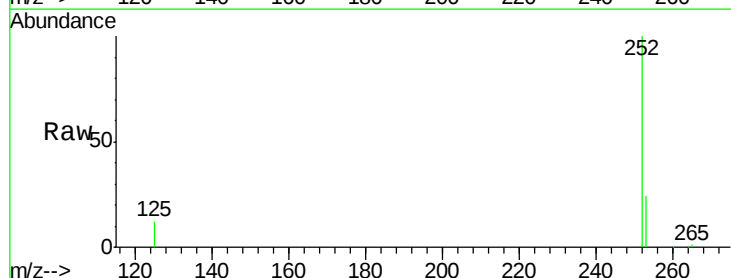
Tgt Ion:252 Resp: 917503

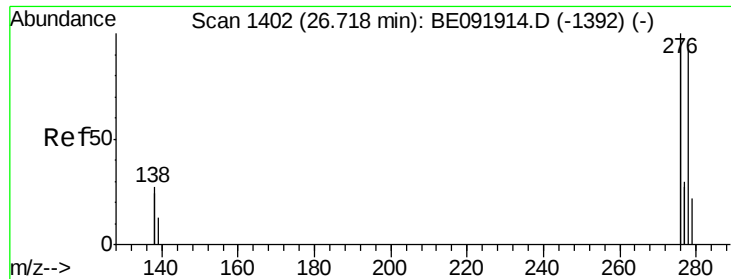
Ion Ratio Lower Upper

252 100

253 24.2 18.9 28.3

125 11.7 10.5 15.7





#44

Dibenzo(a,h)anthracene

Concen: 2.93 ng

RT: 26.72 min Scan# 1402

Delta R.T. -0.00 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

Instrument :

BNA_E

ClientSampleId :

NCHC-011

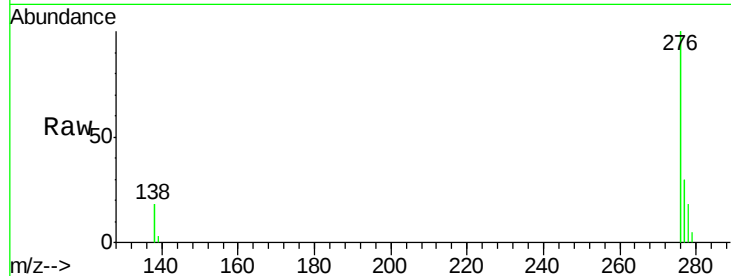
Tot Ion:278 Resp: 127511

Ion Ratio Lower Upper

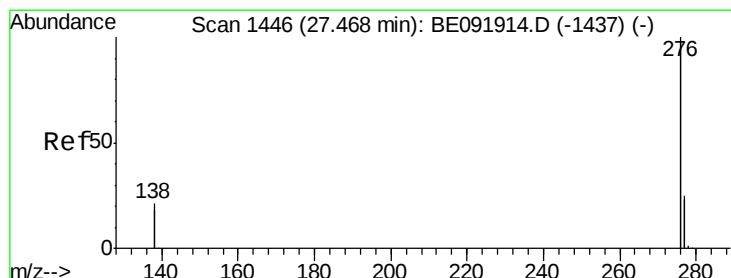
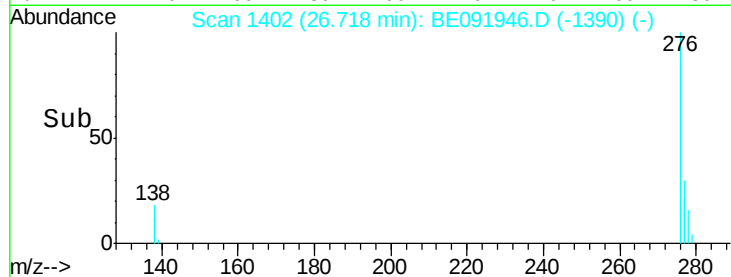
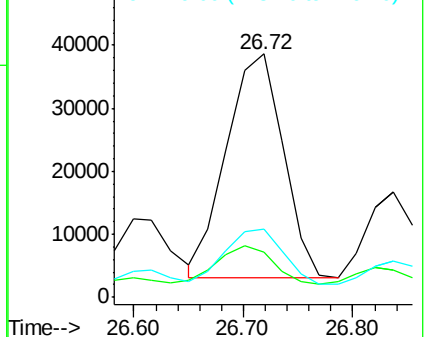
278 100

139 18.4 12.6 18.8

279 27.9 20.0 30.0



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



#45

Benzo(g,h,i)perylene

Concen: 12.35 ng

RT: 27.48 min Scan# 1447

Delta R.T. 0.02 min

Lab File: BE091946.D

Acq: 24 Jun 2016 14:48

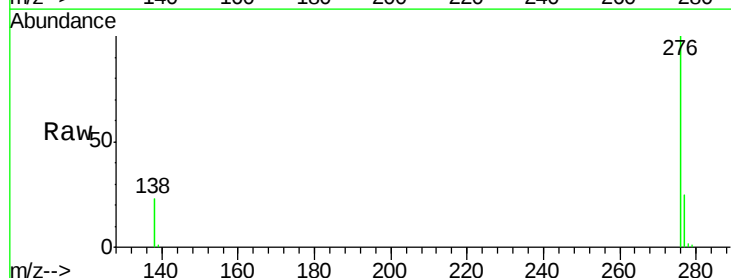
Tgt Ion:276 Resp: 2220214

Ion Ratio Lower Upper

276 100

277 24.8 19.5 29.3

138 22.5 17.7 26.5



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

