

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE050316\
 Data File : BE091749.D
 Acq On : 3 May 2016 18:36
 Operator : UM/SJ
 Sample : H2807-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 NC-HC-007

Quant Time: May 04 01:05:27 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE042616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 26 16:09:46 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	52190	5.00	ng	0.00
7) Naphthalene-d8	10.57	136	243786	5.00	ng	0.00
13) Acenaphthene-d10	14.41	164	142574	5.00	ng	-0.01
19) Phenanthrene-d10	17.15	188	325494	5.00	ng	0.00
26) Chrysene-d12	21.31	240	307768	5.00	ng	0.00
35) Perylene-d12	23.75	264	327667	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	114705	8.95	ng	0.00
5) Phenol-d6	6.95	99	168925	9.94	ng	0.00
8) Nitrobenzene-d5	8.95	82	71229	4.53	ng	0.00
14) 2,4,6-Tribromophenol	15.89	330	40288	7.60	ng	-0.01
15) 2-Fluorobiphenyl	13.03	172	183493	4.55	ng	0.00
29) Terphenyl-d14	19.76	244	261662	5.45	ng	0.00

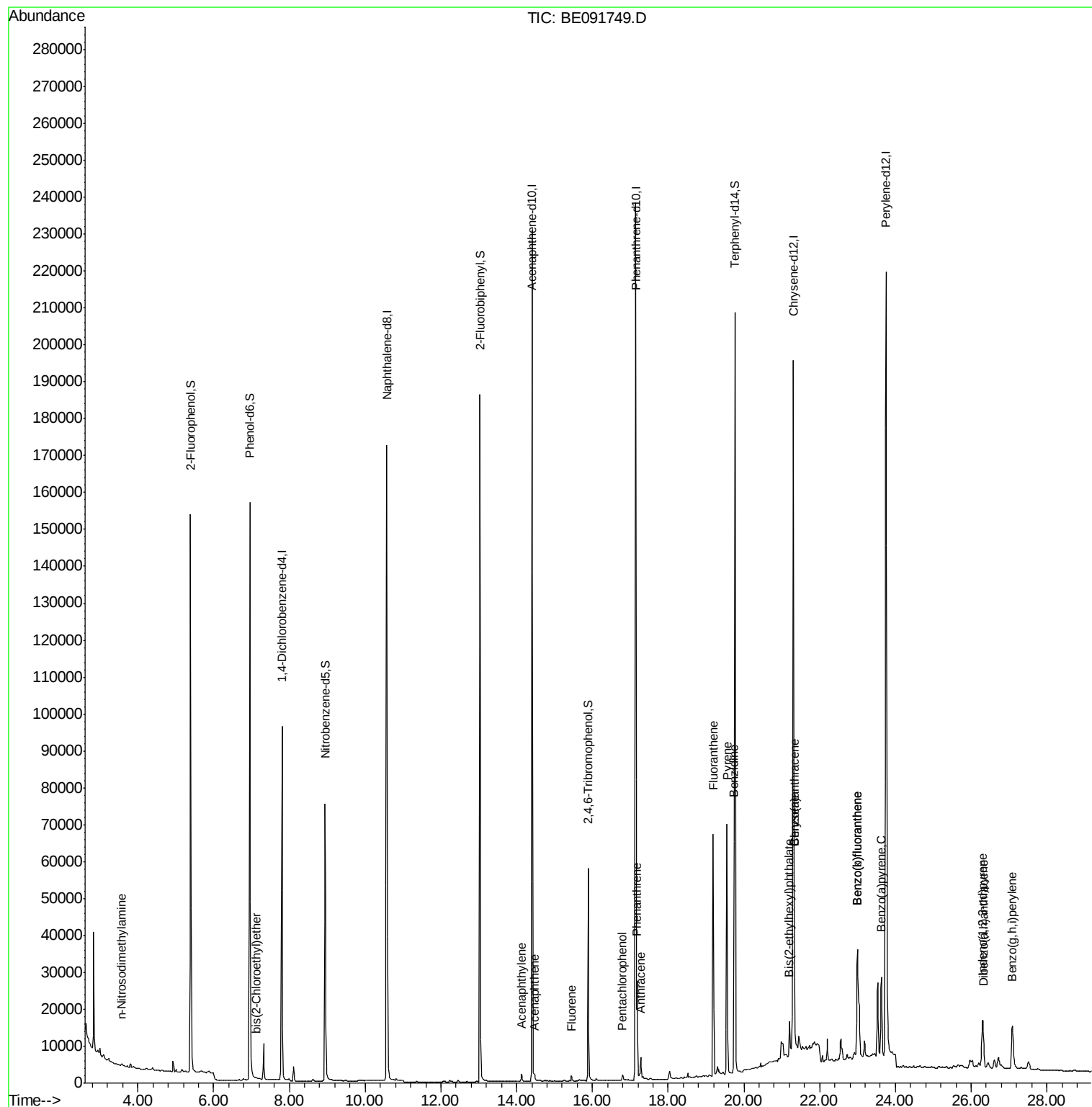
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.57	42	600	0.06	ng	# 1
6) bis(2-Chloroethyl)ether	7.13	93	729	0.05	ng	# 28
16) Acenaphthylene	14.12	152	3514	0.06	ng	# 78
17) Acenaphthene	14.47	154	767	0.02	ng	# 80
18) Fluorene	15.46	166	1236	0.03	ng	# 95
22) Pentachlorophenol	16.79	266	1448	0.32	ng	92
23) Phenanthrene	17.18	178	26549	0.36	ng	98
24) Anthracene	17.27	178	7397	0.11	ng	100
25) Fluoranthene	19.19	202	69177	0.89	ng	# 96
27) Benzidine	19.74	184	4438	0.34	ng	# 95
28) Pyrene	19.55	202	68601	0.99	ng	# 94
30) Benzo(a)anthracene	21.33	228	83887	1.12	ng	# 90
32) Chrysene	21.33	228	83017	1.06	ng	# 95
33) Bis(2-ethylhexyl)phthalate	21.20	149	12101	0.53	ng	# 87
34) Indeno(1,2,3-cd)pyrene	26.29	276	24580	0.35	ng	# 93
36) Benzo(b)fluoranthene	23.00	252	70953	0.92	ng	# 68
37) Benzo(k)fluoranthene	23.00	252	70953	0.91	ng	# 68
38) Benzo(a)pyrene	23.63	252	34960	0.48	ng	# 83
39) Dibenzo(a,h)anthracene	26.32	278	6486	0.09	ng	# 35
40) Benzo(g,h,i)perylene	27.09	276	29588	0.42	ng	# 92

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 300

Delta R.T. 0.00 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

Instrument :

BNA_E

ClientSampleId :

NC-HC-007

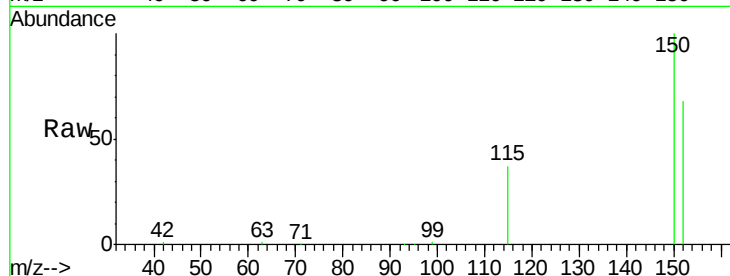
Tgt Ion:152 Resp: 52190

Ion Ratio Lower Upper

152 100

150 146.0 122.6 183.8

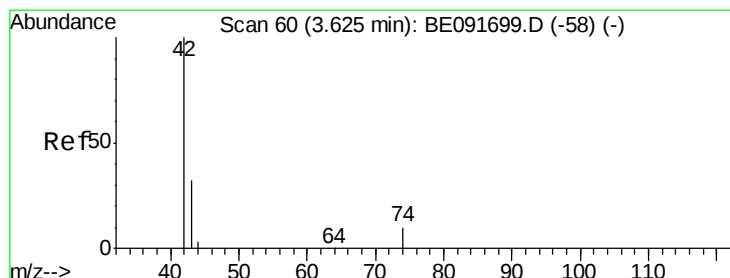
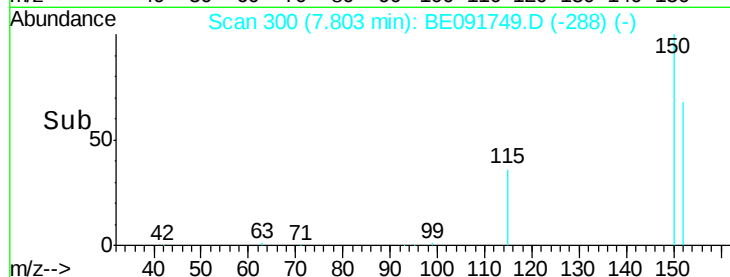
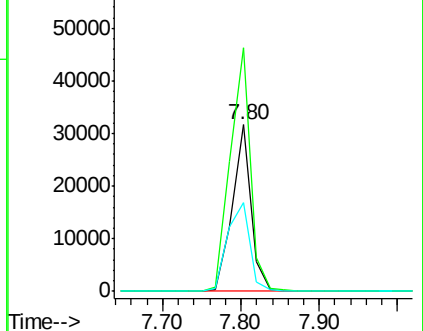
115 53.3 52.8 79.2



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



#3

n-Nitrosodimethylamine

Concen: 0.06 ng

RT: 3.57 min Scan# 57

Delta R.T. -0.05 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

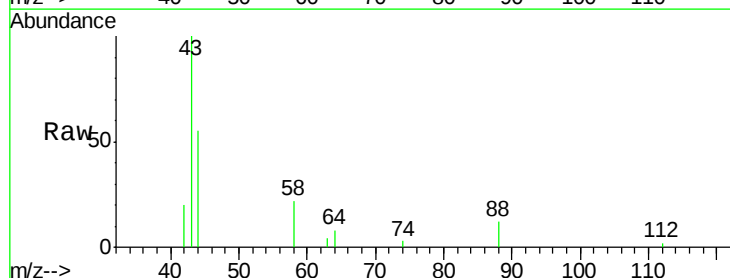
Tgt Ion: 42 Resp: 600

Ion Ratio Lower Upper

42 100

74 0.7 87.9 131.9#

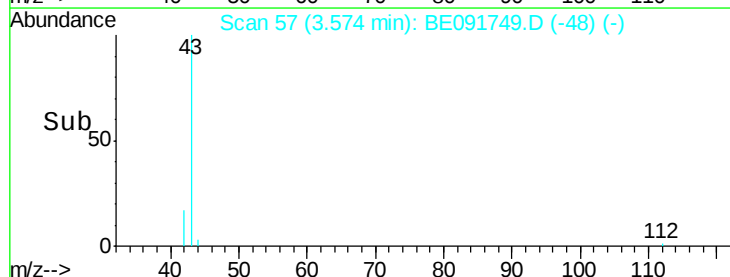
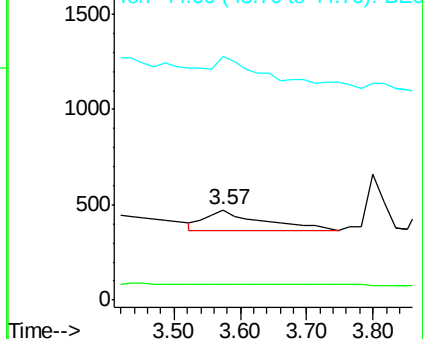
44 101.8 6.6 9.8#

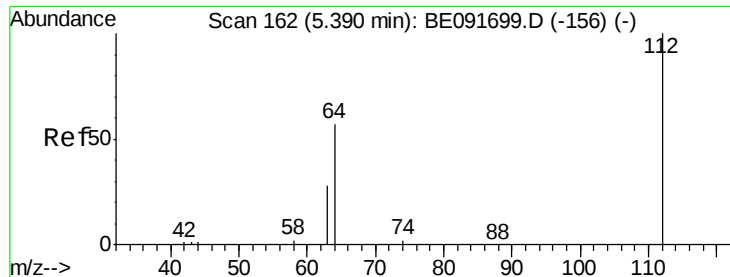


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 8.95 ng

RT: 5.39 min Scan# 162

Delta R.T. 0.00 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

Instrument :

BNA_E

ClientSampleId :

NC-HC-007

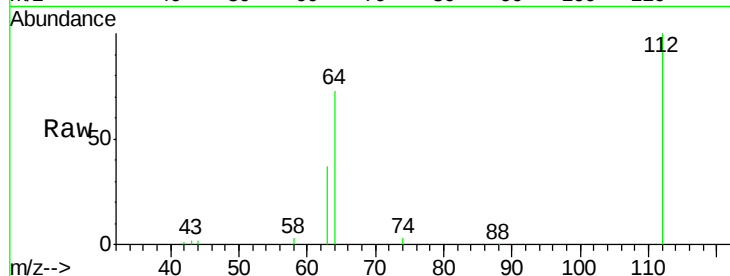
Tgt Ion: 112 Resp: 114705

Ion Ratio Lower Upper

112 100

64 67.7 30.9 46.3#

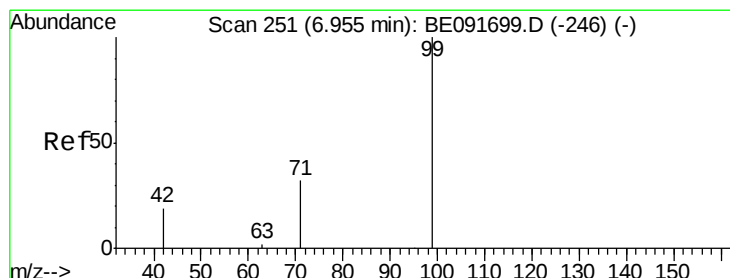
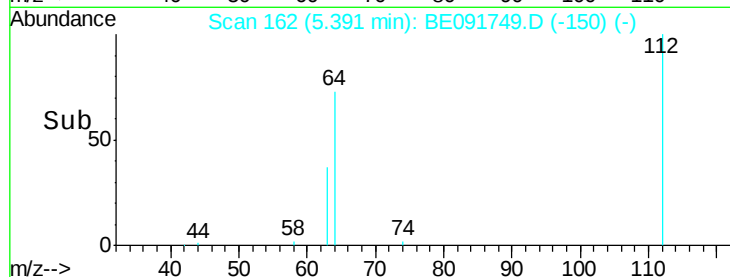
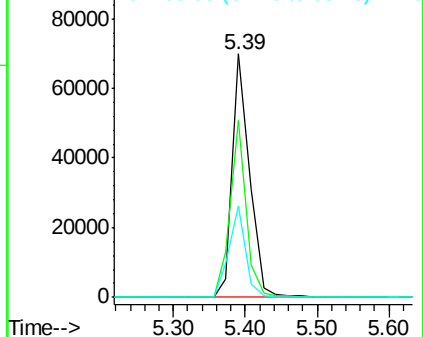
63 36.7 16.7 25.1#



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 9.94 ng

RT: 6.95 min Scan# 251

Delta R.T. 0.00 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

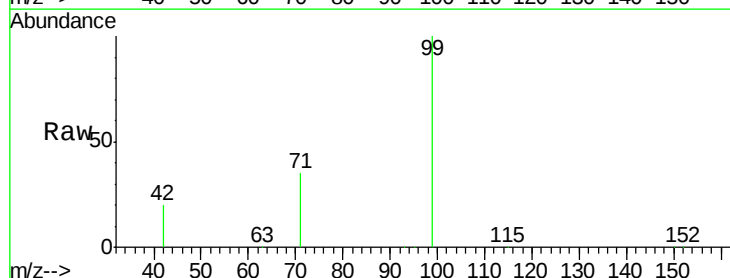
Tgt Ion: 99 Resp: 168925

Ion Ratio Lower Upper

99 100

42 24.7 16.2 24.2#

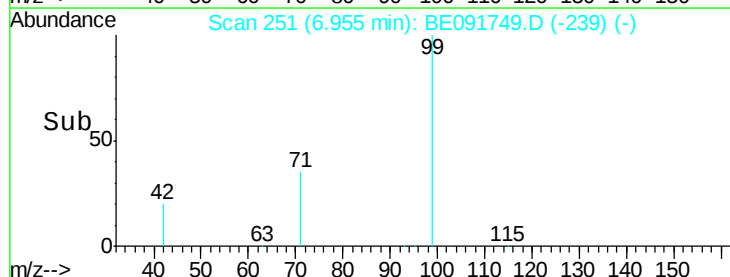
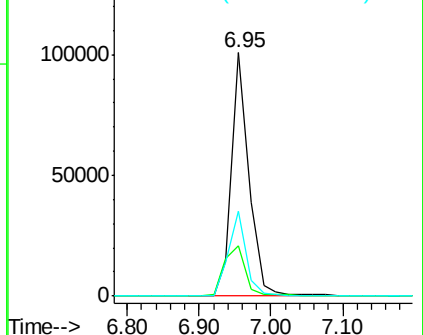
71 35.5 29.0 43.4

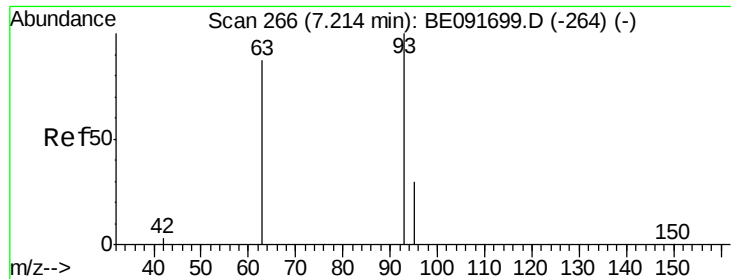


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

bis(2-Chloroethyl)ether

Concen: 0.05 ng

RT: 7.13 min Scan# 261

Delta R.T. -0.09 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

Instrument :

BNA_E

ClientSampled :

NC-HC-007

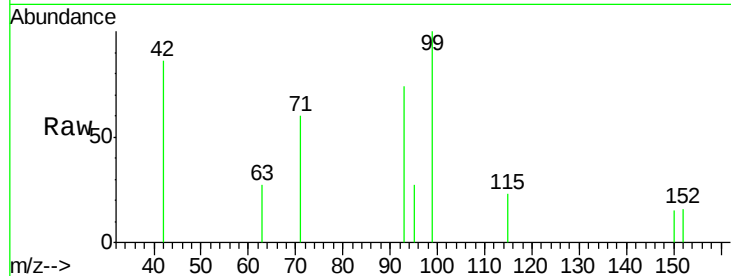
Tgt Ion: 93 Resp: 729

Ion Ratio Lower Upper

93 100

63 0.0 49.5 74.3#

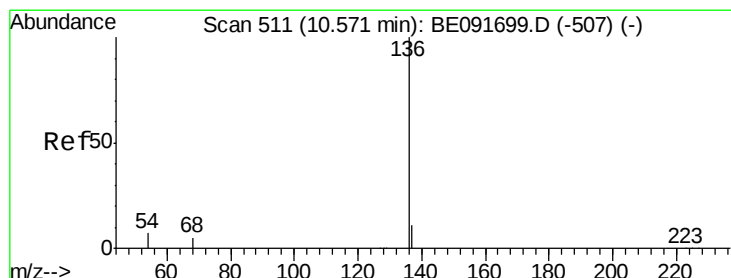
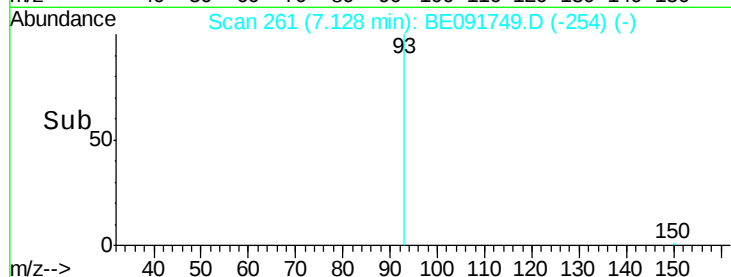
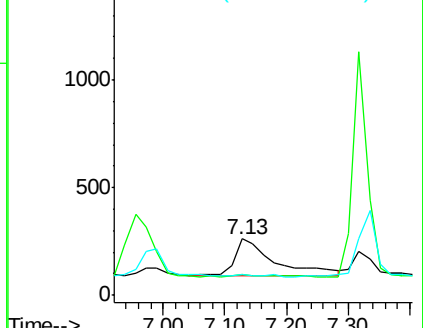
95 0.0 22.2 33.4#



Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.57 min Scan# 511

Delta R.T. -0.00 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

Tgt Ion: 136 Resp: 243786

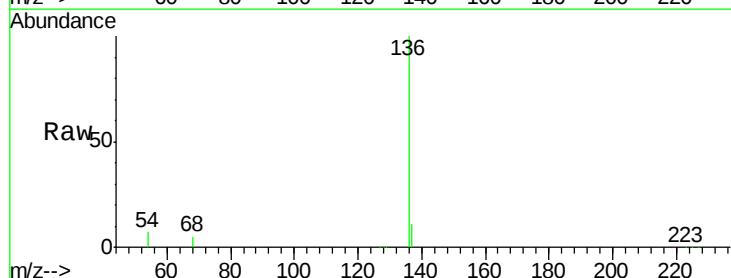
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 7.2 8.2 12.4#

68 5.3 6.2 9.4#

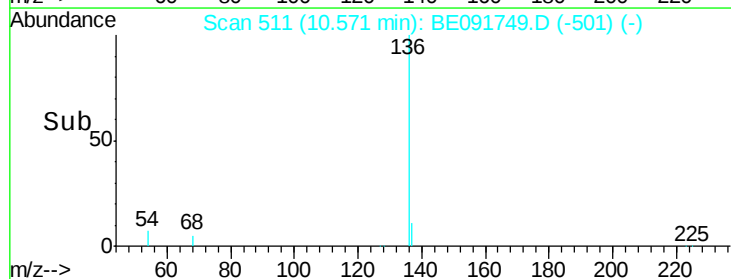
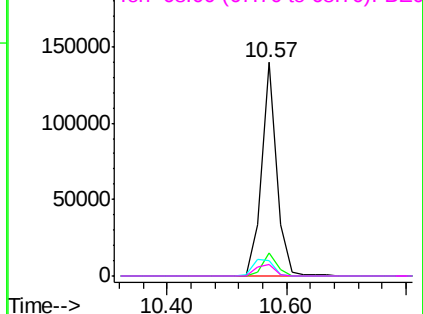


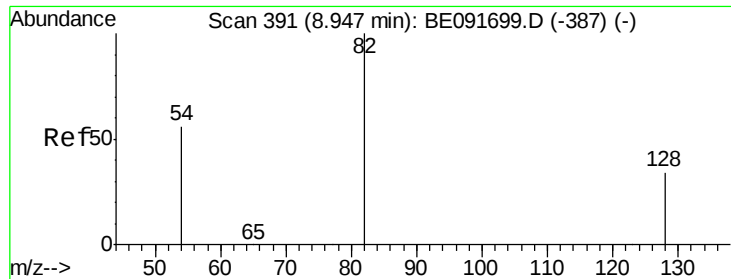
Abundance Ion 136.00 (135.70 to 136.70): E

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

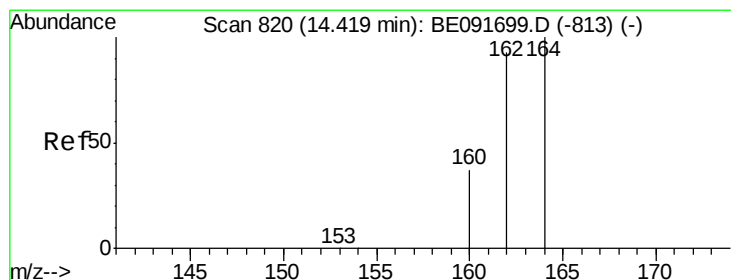
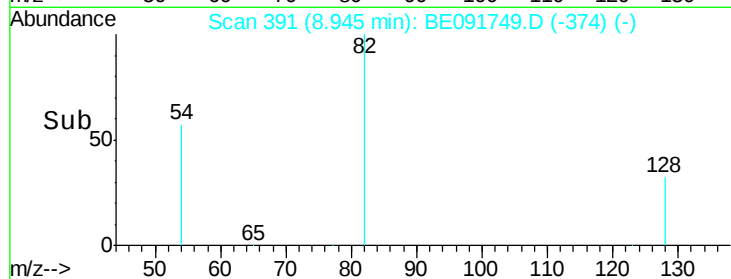
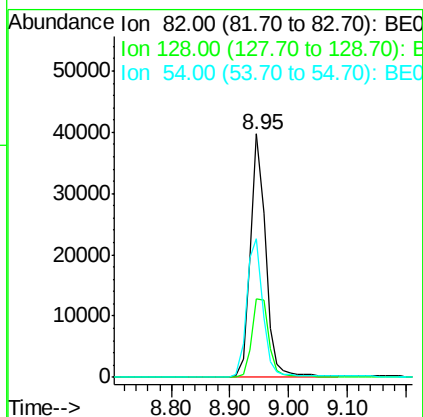
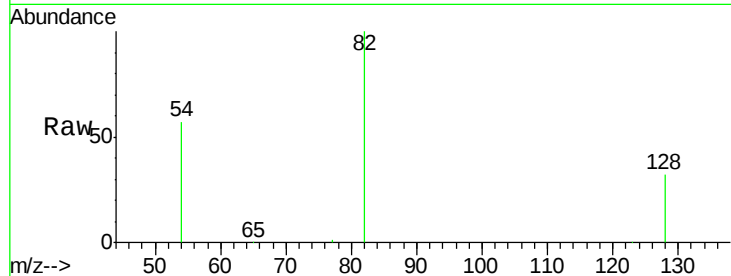




#8
 Nitrobenzene-d5
 Concen: 4.53 ng
 RT: 8.95 min Scan# 391
 Delta R.T. -0.00 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

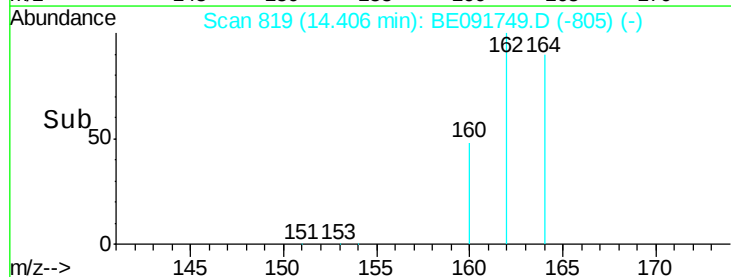
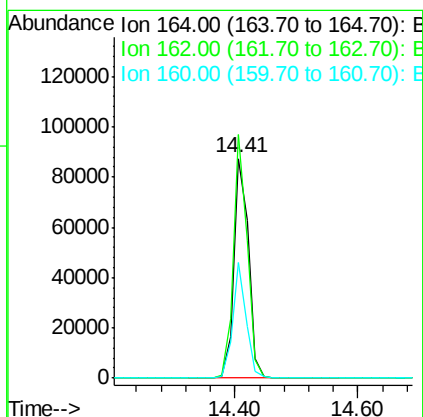
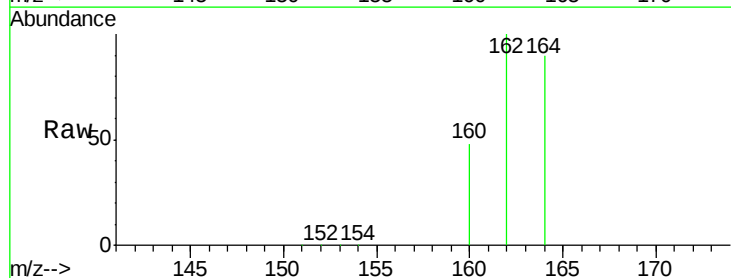
Instrument :
 BNA_E
 ClientSampleId :
 NC-HC-007

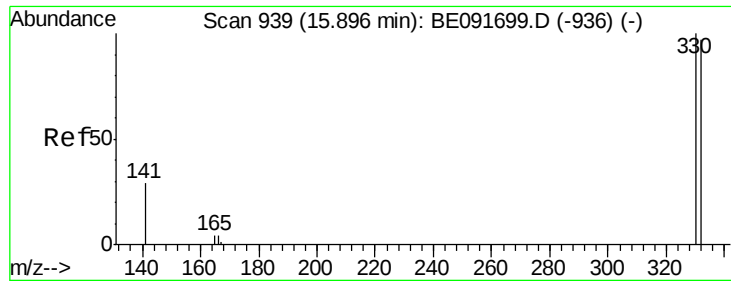
Tgt Ion: 82 Resp: 71229
 Ion Ratio Lower Upper
 82 100
 128 32.5 25.4 38.0
 54 57.1 48.4 72.6



#13
 Acenaphthene-d10
 Concen: 5.00 ng
 RT: 14.41 min Scan# 819
 Delta R.T. -0.01 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

Tgt Ion: 164 Resp: 142574
 Ion Ratio Lower Upper
 164 100
 162 111.0 85.3 127.9
 160 52.8 46.2 69.2

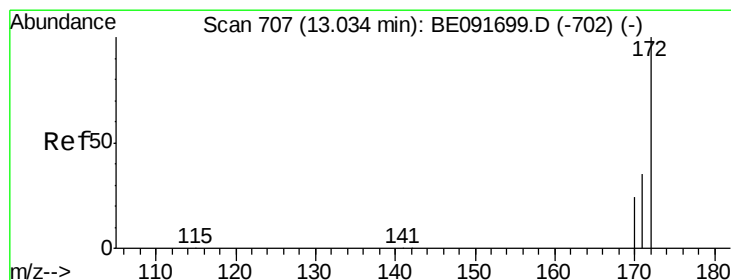
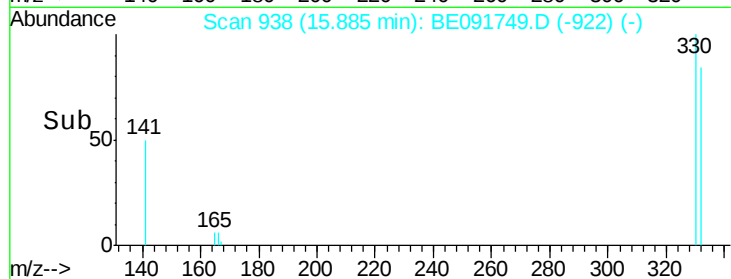
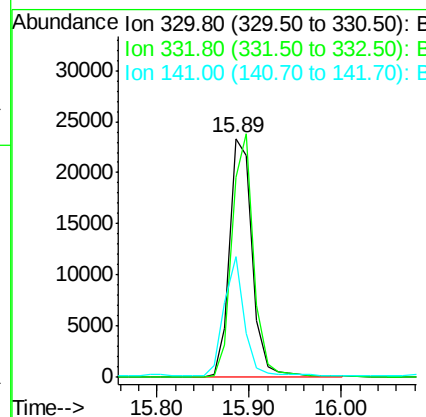
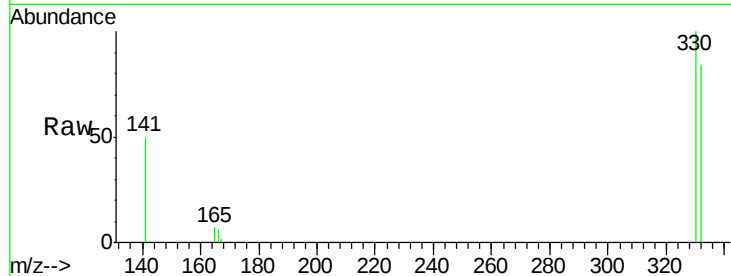




#14
 2,4,6-Tribromophenol
 Concen: 7.60 ng
 RT: 15.89 min Scan# 938
 Delta R.T. -0.01 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

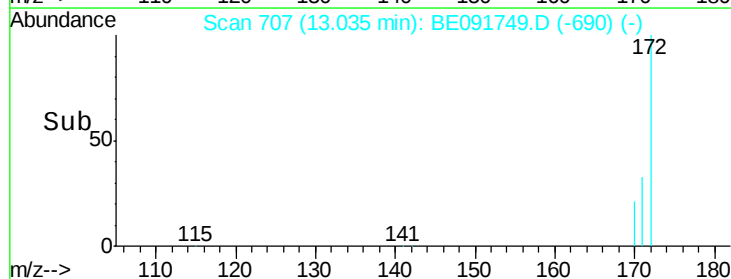
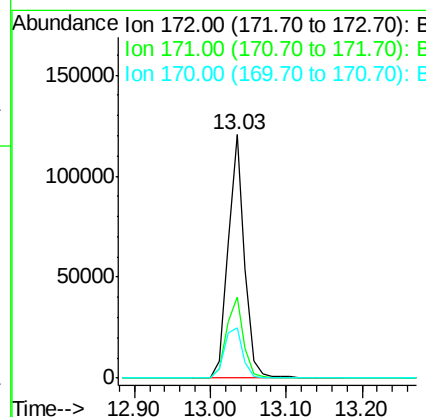
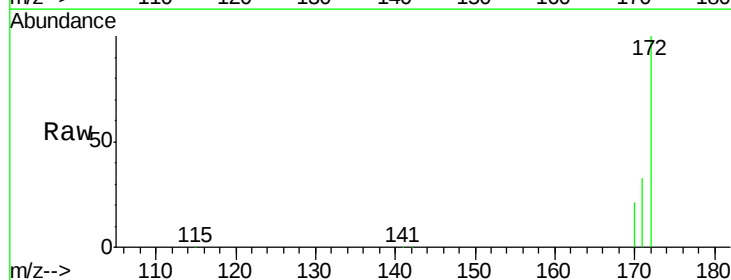
Instrument :
 BNA_E
 ClientSampleId :
 NC-HC-007

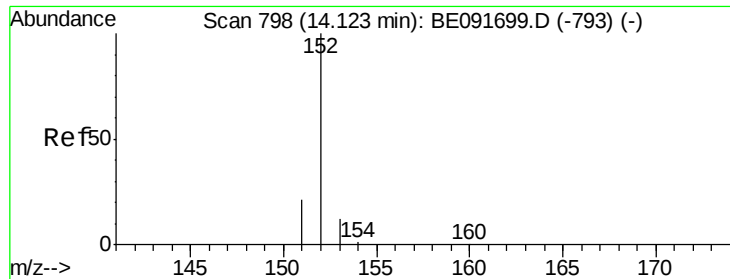
Tgt Ion:330 Resp: 40288
 Ion Ratio Lower Upper
 330 100
 332 97.2 79.1 118.7
 141 44.2 125.4 188.0#



#15
 2-Fluorobiphenyl
 Concen: 4.55 ng
 RT: 13.03 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

Tgt Ion:172 Resp: 183493
 Ion Ratio Lower Upper
 172 100
 171 33.2 28.8 43.2
 170 20.9 19.3 28.9





#16

Acenaphthylene

Concen: 0.06 ng

RT: 14.12 min Scan# 798

Delta R.T. 0.00 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

Instrument :

BNA_E

ClientSampleId :

NC-HC-007

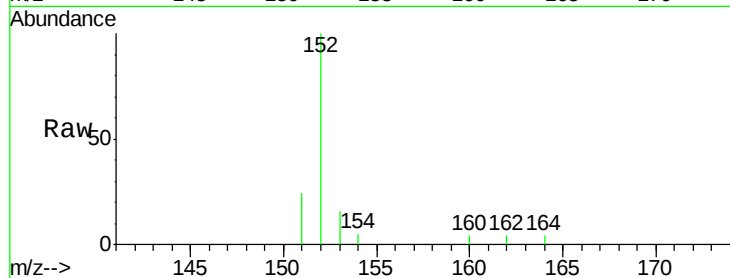
Tgt Ion:152 Resp: 3514

Ion Ratio Lower Upper

152 100

151 23.4 3.9 5.9#

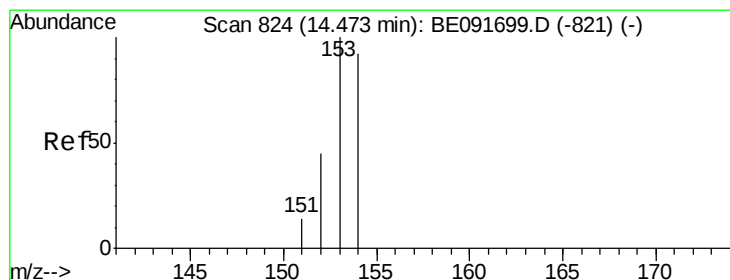
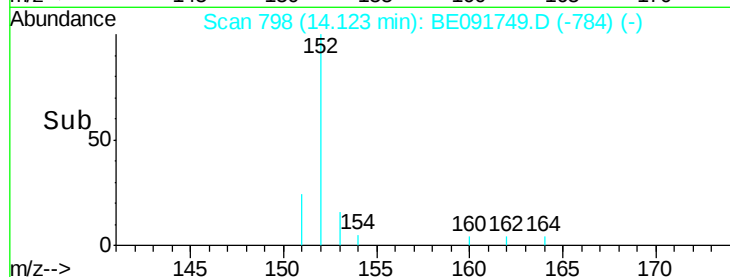
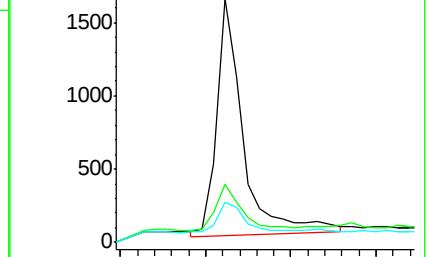
153 16.7 10.3 15.5#



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



#17

Acenaphthene

Concen: 0.02 ng

RT: 14.47 min Scan# 824

Delta R.T. 0.00 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

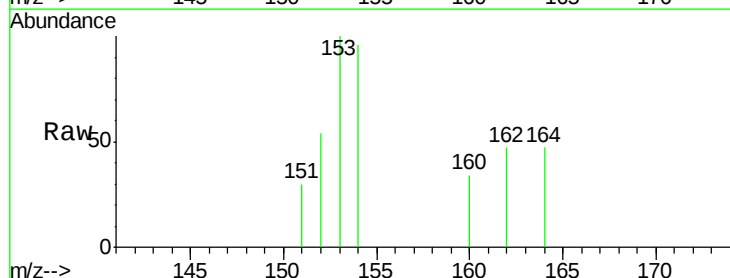
Tgt Ion:154 Resp: 767

Ion Ratio Lower Upper

154 100

153 118.4 80.0 120.0

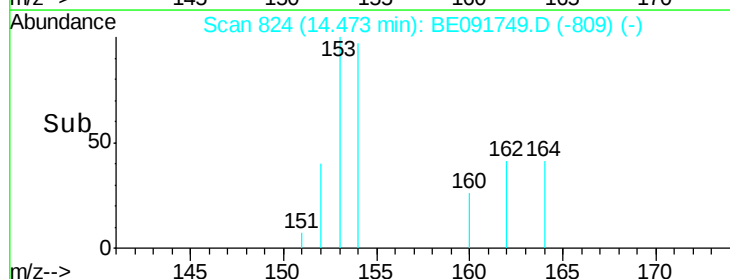
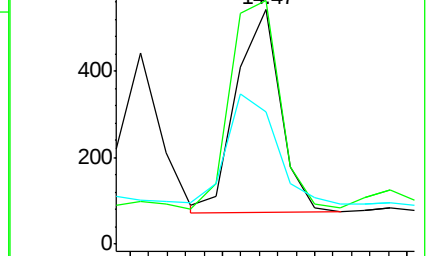
152 65.2 40.0 60.0#

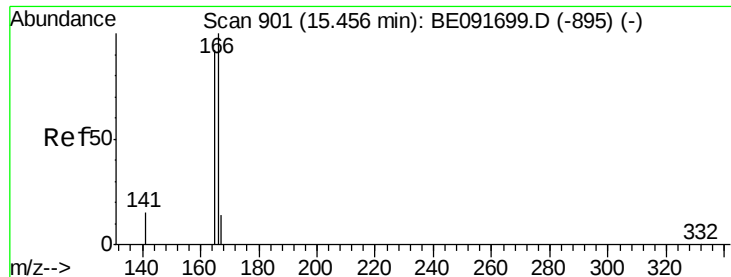


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

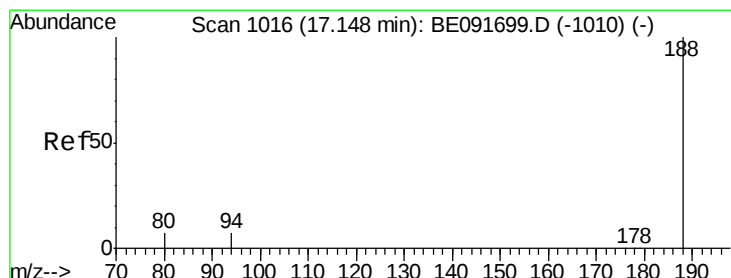
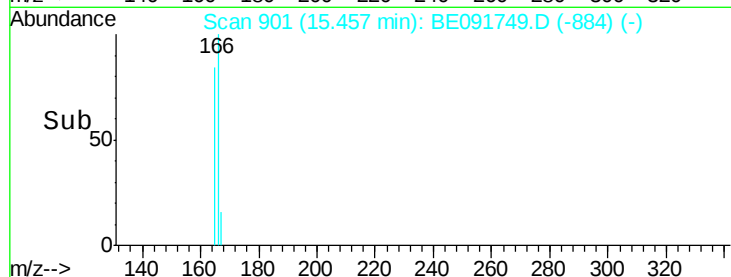
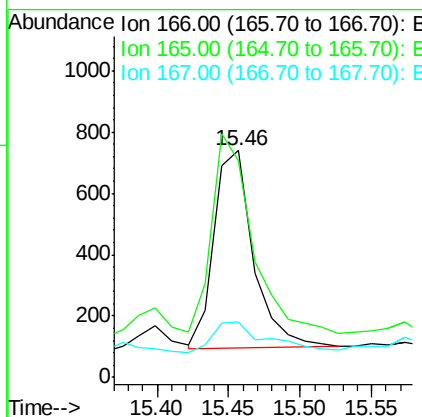
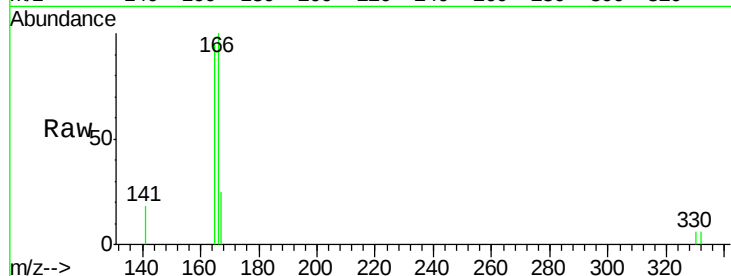




#18
Fluorene
 Concen: 0.03 ng
 RT: 15.46 min Scan# 901
 Delta R.T. 0.00 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

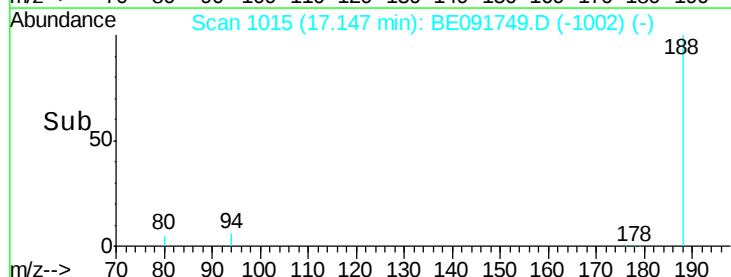
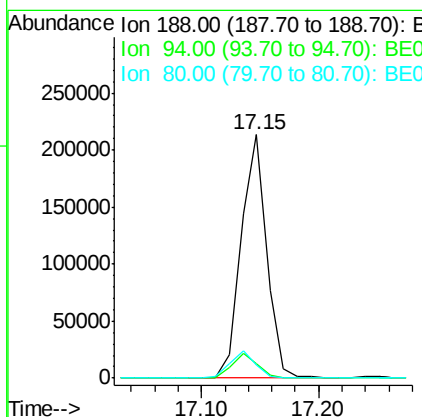
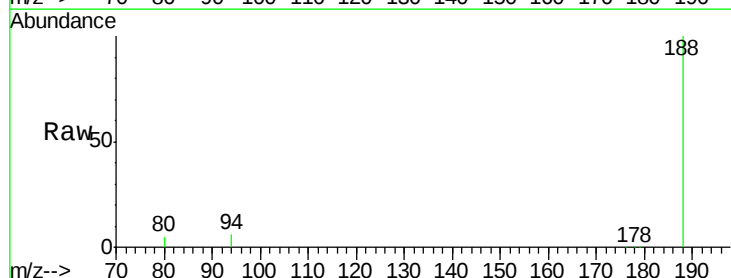
Instrument :
 BNA_E
 ClientSampleId :
 NC-HC-007

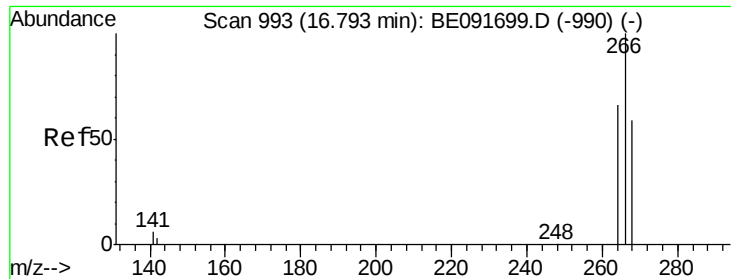
Tgt Ion:166 Resp: 1236
 Ion Ratio Lower Upper
 166 100
 165 104.4 80.8 121.2
 167 21.8 10.9 16.3#



#19
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.15 min Scan# 1015
 Delta R.T. -0.00 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

Tgt Ion:188 Resp: 325494
 Ion Ratio Lower Upper
 188 100
 94 6.0 8.7 13.1#
 80 5.3 9.4 14.0#

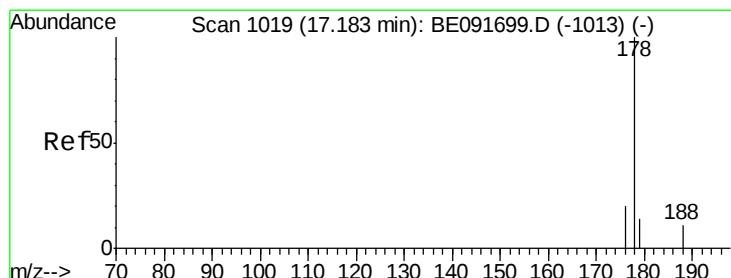
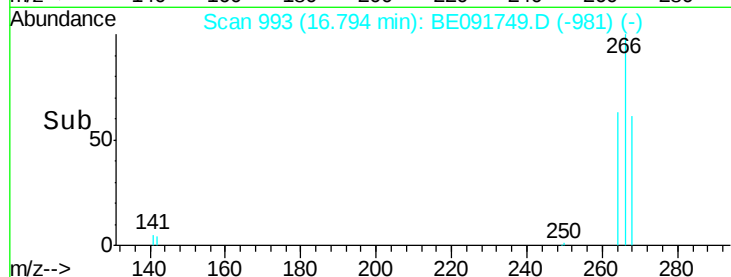
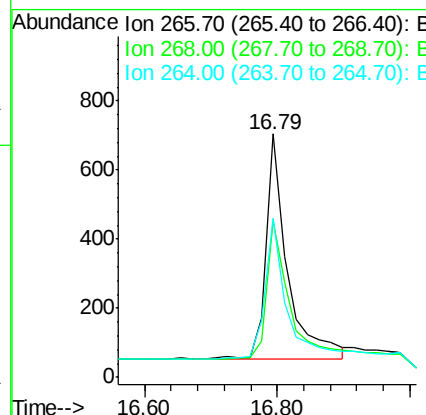
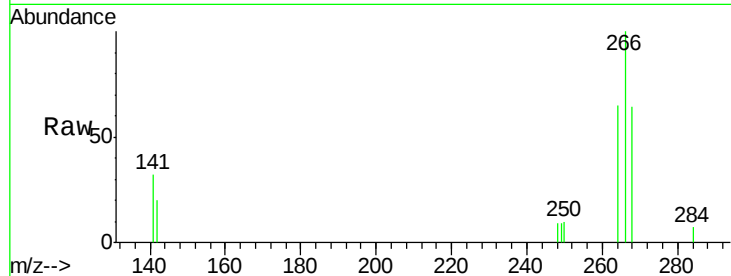




#22
 Pentachlorophenol
 Concen: 0.32 ng
 RT: 16.79 min Scan# 993
 Delta R.T. 0.00 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

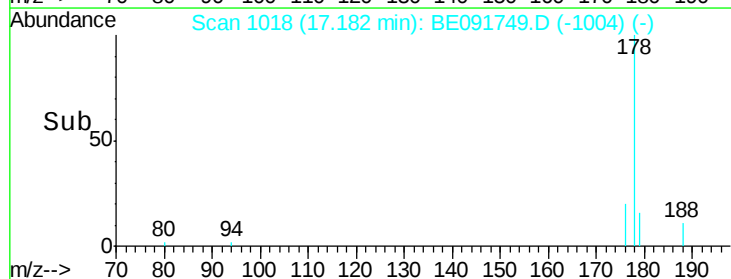
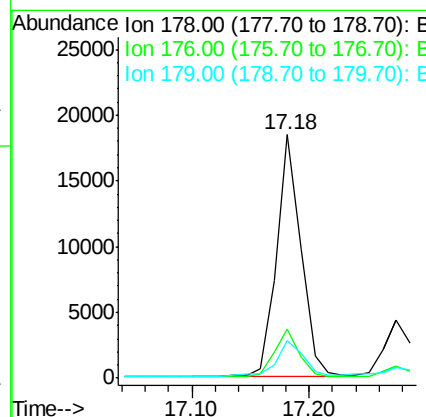
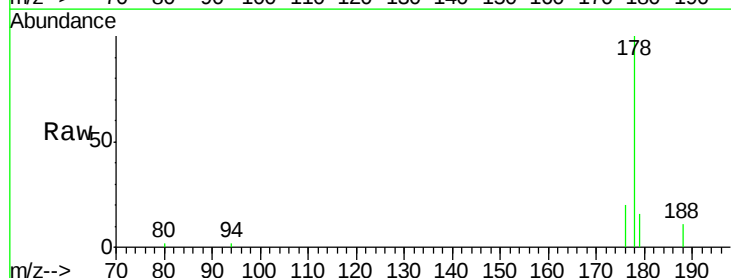
Instrument :
 BNA_E
 ClientSampleId :
 NC-HC-007

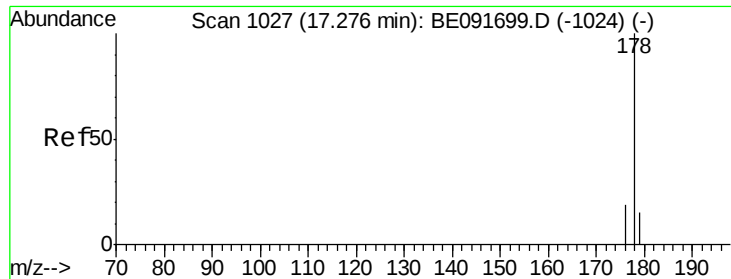
Tgt Ion: 266 Resp: 1448
 Ion Ratio Lower Upper
 266 100
 268 64.3 58.2 87.2
 264 65.2 56.2 84.4



#23
 Phenanthrene
 Concen: 0.36 ng
 RT: 17.18 min Scan# 1018
 Delta R.T. -0.00 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

Tgt Ion: 178 Resp: 26549
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.3 22.9
 179 16.7 12.6 18.8





#24

Anthracene

Concen: 0.11 ng

RT: 17.27 min Scan# 1026

Delta R.T. -0.00 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

Instrument :

BNA_E

ClientSampleId :

NC-HC-007

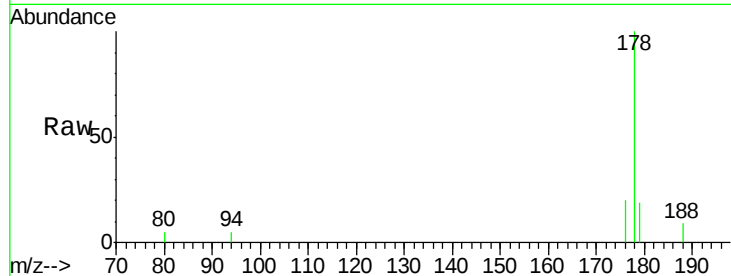
Tgt Ion:178 Resp: 7397

Ion Ratio Lower Upper

178 100

176 18.3 14.6 21.8

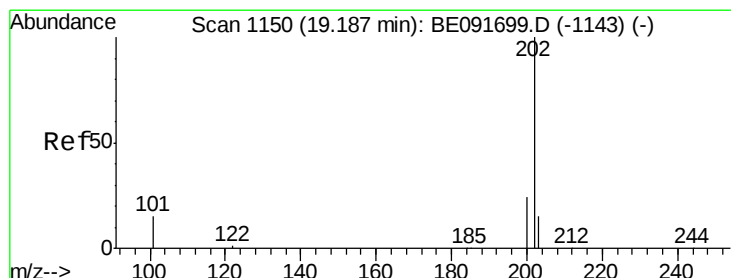
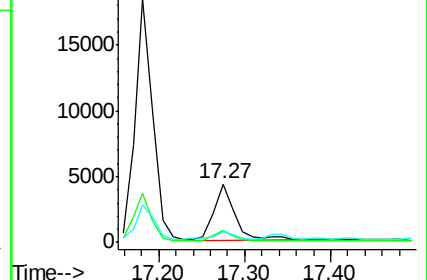
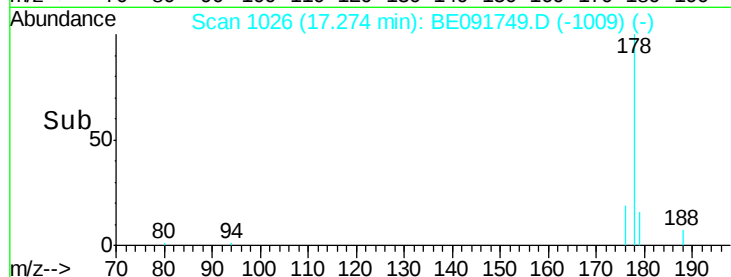
179 14.8 11.8 17.6



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



#25

Fluoranthene

Concen: 0.89 ng

RT: 19.19 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

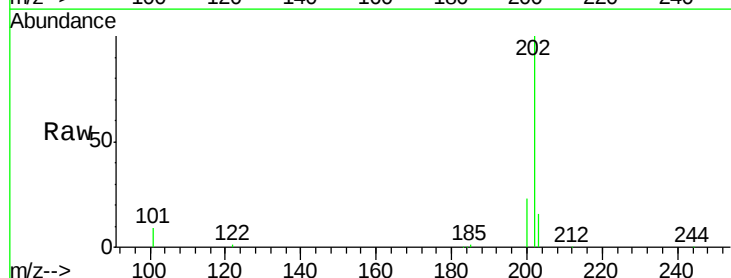
Tgt Ion:202 Resp: 69177

Ion Ratio Lower Upper

202 100

101 10.7 11.0 16.6#

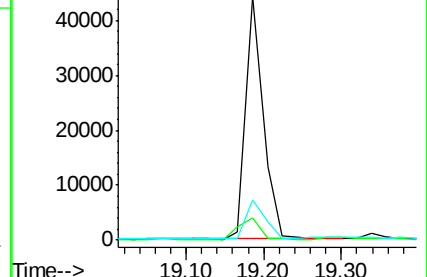
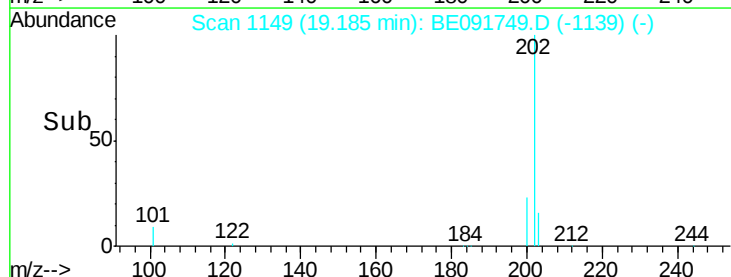
203 17.2 13.9 20.9

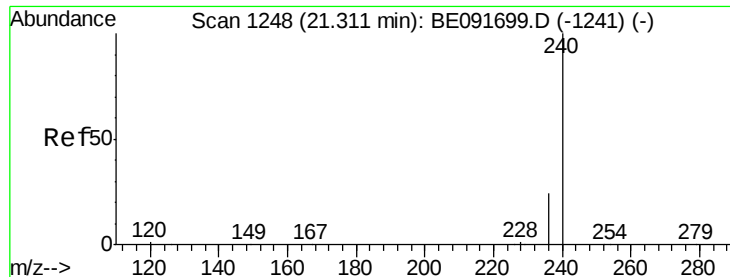


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

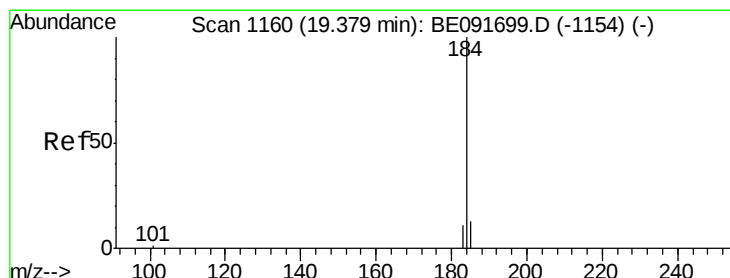
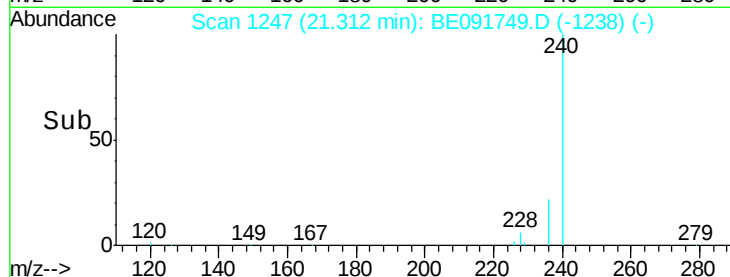
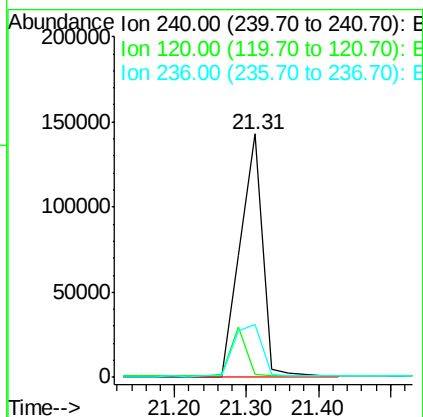
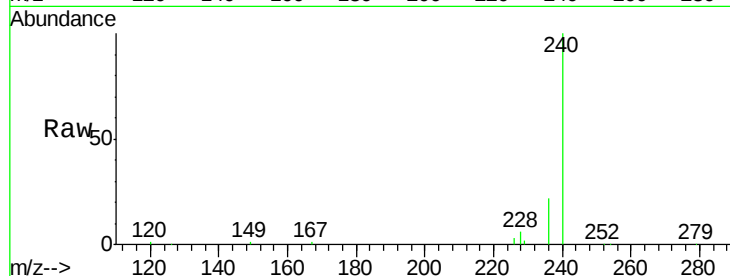




#26
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.31 min Scan# 1247
 Delta R.T. 0.00 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

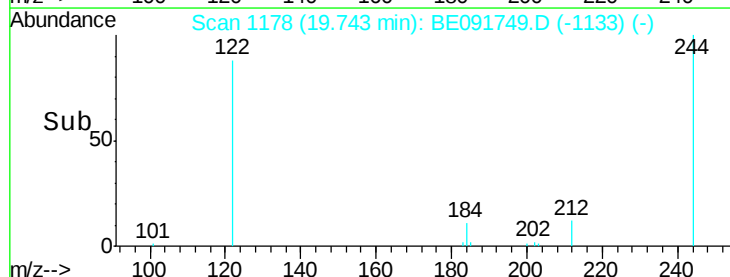
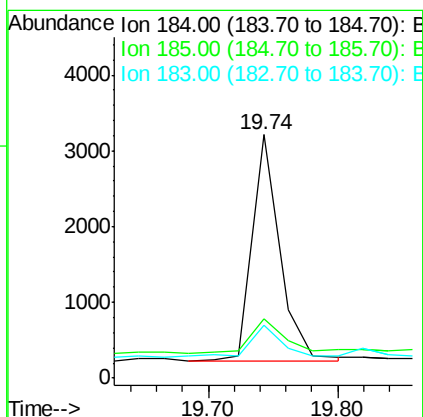
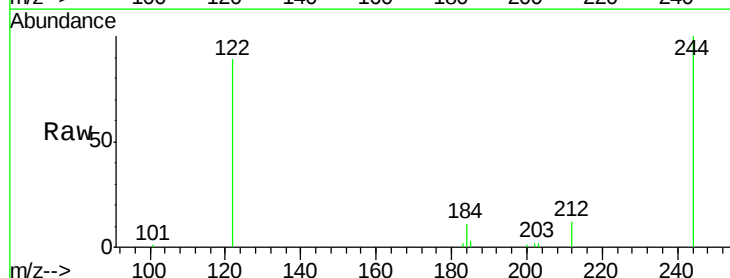
Instrument :
 BNA_E
 ClientSampleId :
 NC-HC-007

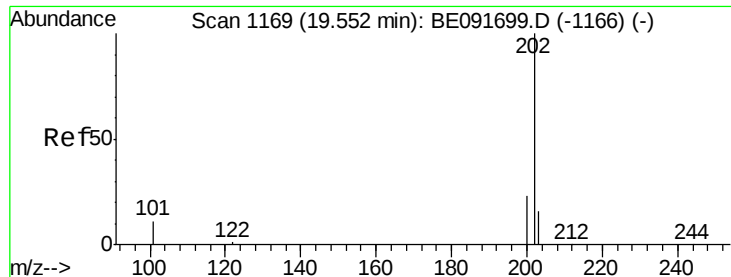
Tgt Ion: 240 Resp: 307768
 Ion Ratio Lower Upper
 240 100
 120 1.3 11.0 16.4#
 236 21.9 21.7 32.5



#27
 Benzidine
 Concen: 0.34 ng
 RT: 19.74 min Scan# 1178
 Delta R.T. 0.36 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

Tgt Ion: 184 Resp: 4438
 Ion Ratio Lower Upper
 184 100
 185 24.3 22.3 33.5
 183 21.6 16.4 24.6

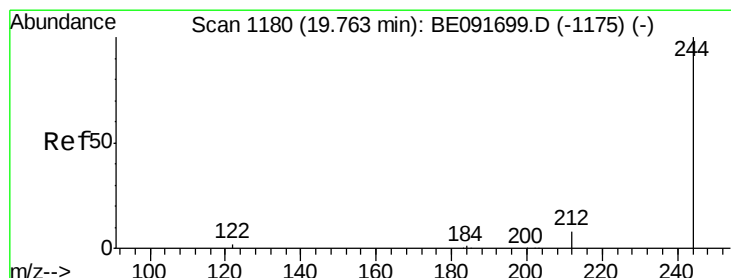
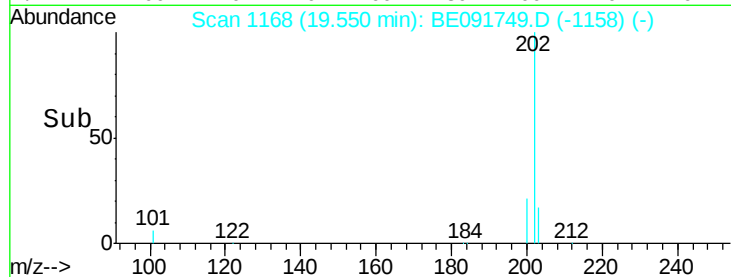
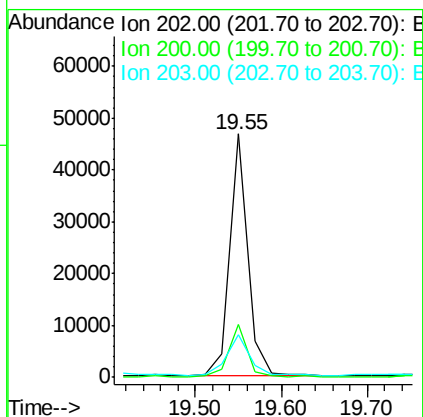
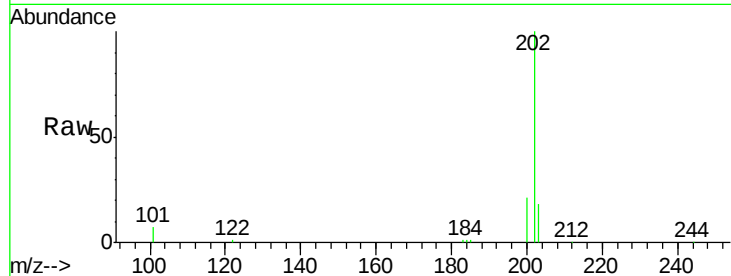




#28
 Pyrene
 Concen: 0.99 ng
 RT: 19.55 min Scan# 1168
 Delta R.T. -0.00 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

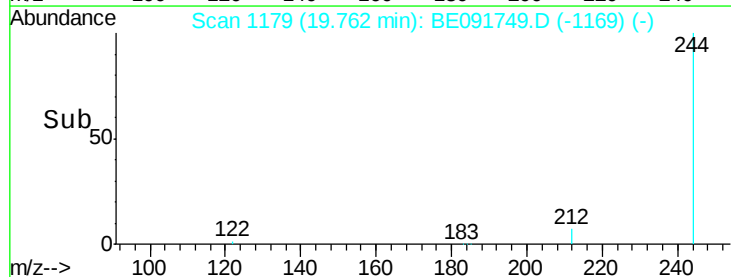
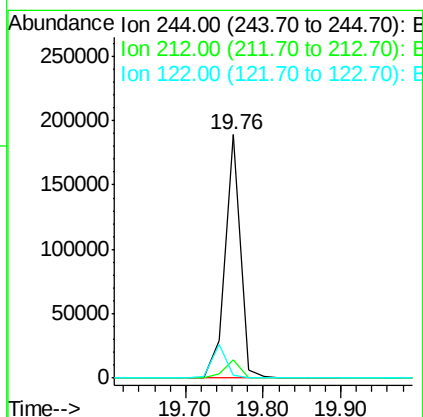
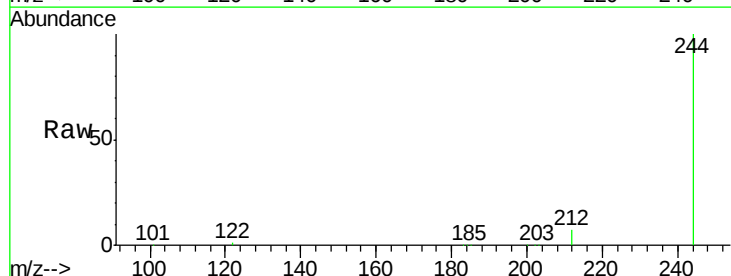
Instrument :
 BNA_E
 ClientSampleId :
 NC-HC-007

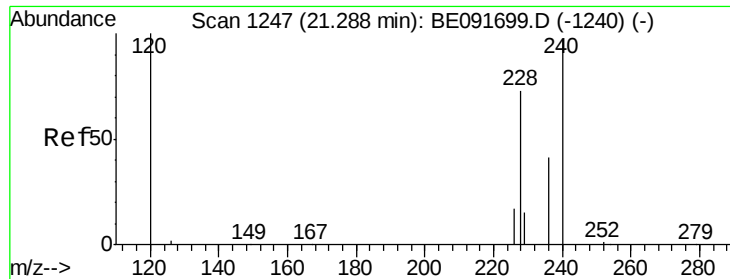
Tgt Ion: 202 Resp: 68601
 Ion Ratio Lower Upper
 202 100
 200 21.4 16.8 25.2
 203 22.5 14.0 21.0#



#29
 Terphenyl-d14
 Concen: 5.45 ng
 RT: 19.76 min Scan# 1179
 Delta R.T. -0.00 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

Tgt Ion: 244 Resp: 261662
 Ion Ratio Lower Upper
 244 100
 212 7.3 6.9 10.3
 122 1.1 11.0 16.4#





#30

Benzo(a)anthracene

Concen: 1.12 ng

RT: 21.33 min Scan# 1248

Delta R.T. 0.05 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

Instrument :

BNA_E

ClientSampleId :

NC-HC-007

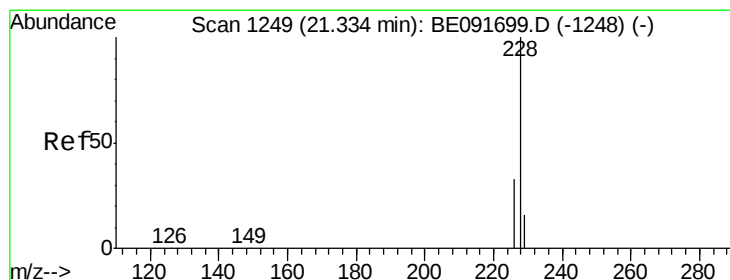
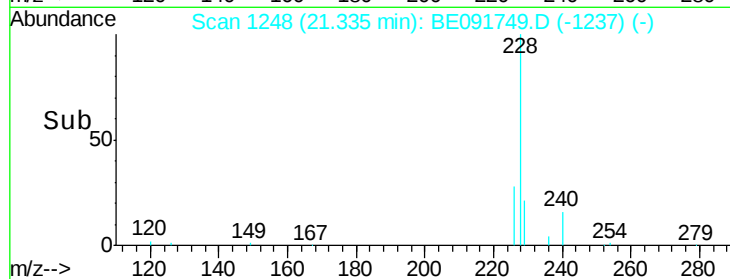
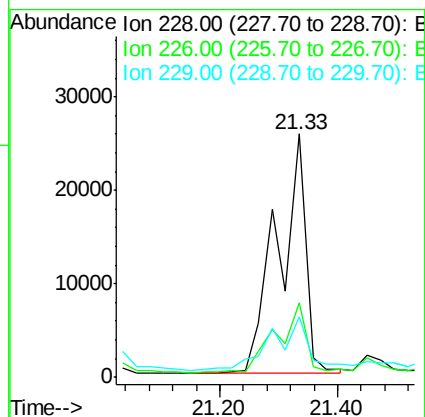
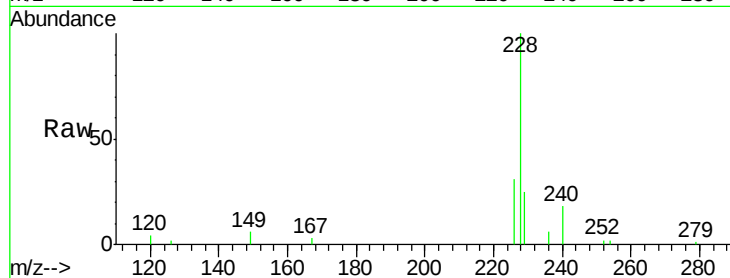
Tgt Ion:228 Resp: 83887

Ion Ratio Lower Upper

228 100

226 30.6 21.0 31.4

229 24.8 15.7 23.5#



#32

Chrysene

Concen: 1.06 ng

RT: 21.33 min Scan# 1248

Delta R.T. 0.00 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

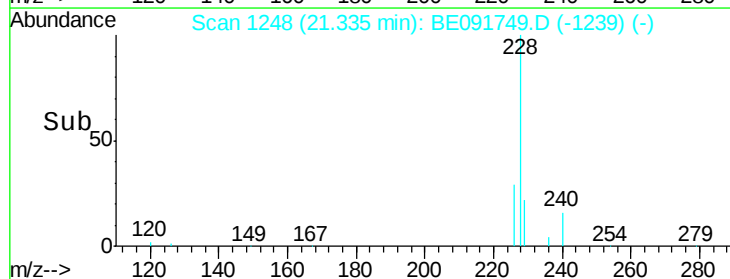
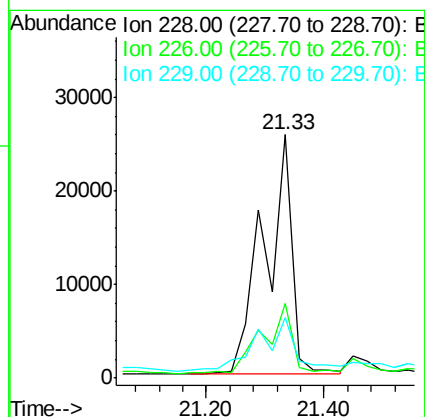
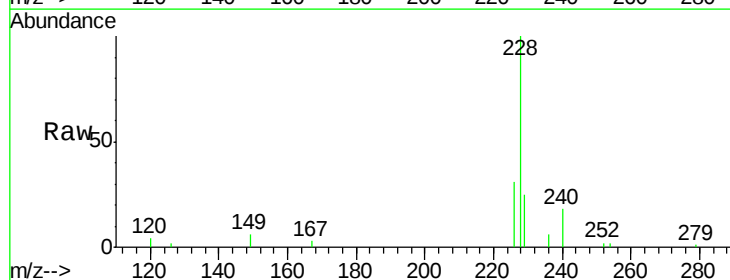
Tgt Ion:228 Resp: 83017

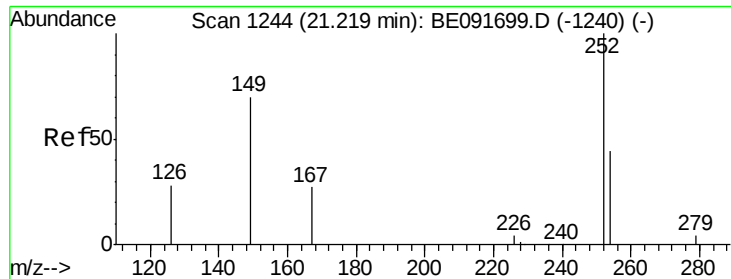
Ion Ratio Lower Upper

228 100

226 30.6 24.0 36.0

229 24.8 15.9 23.9#

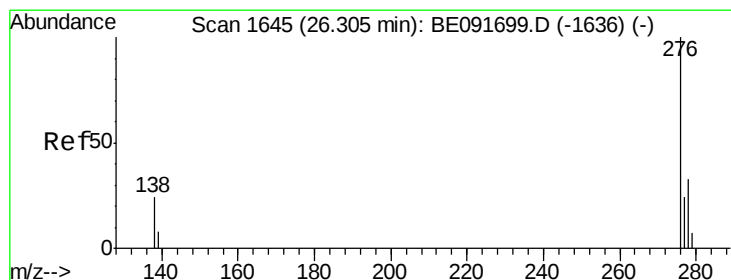
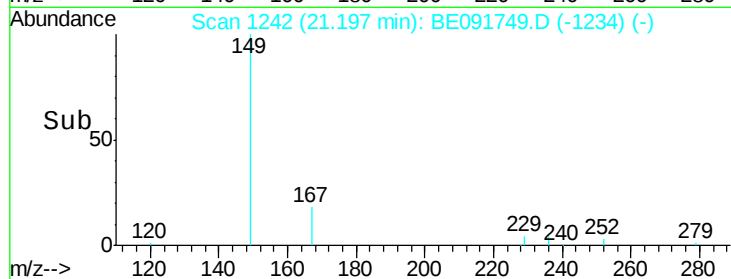
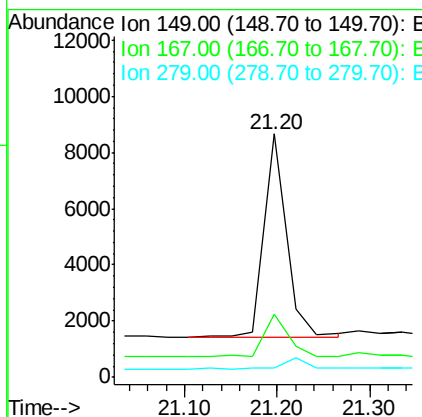
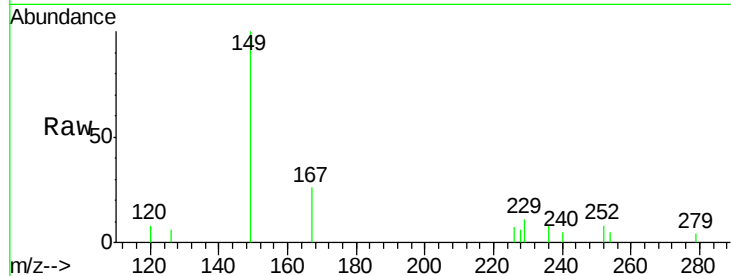




#33
 Bis(2-ethylhexyl)phthalate
 Concen: 0.53 ng
 RT: 21.20 min Scan# 1242
 Delta R.T. -0.02 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

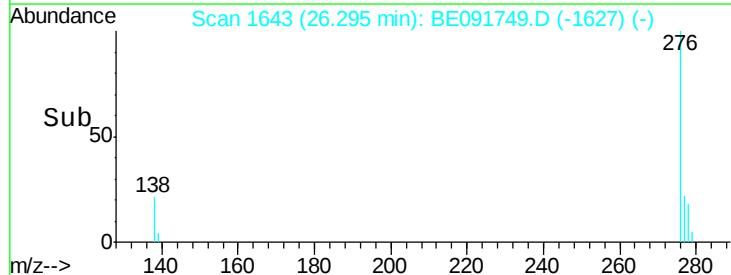
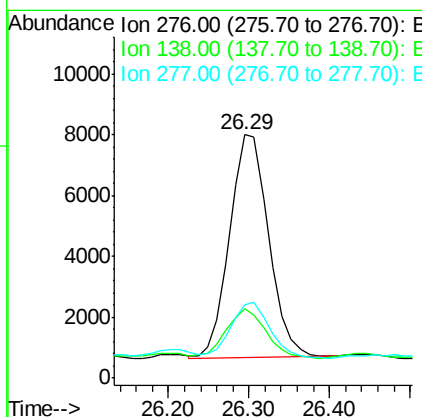
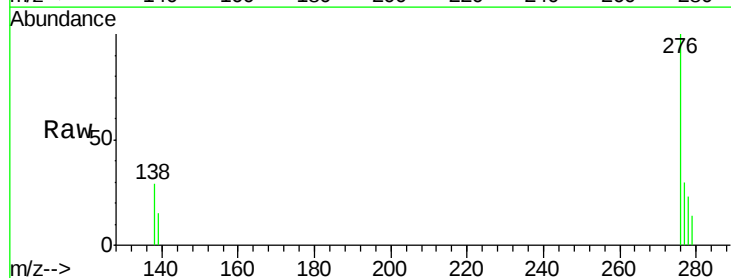
Instrument :
 BNA_E
 ClientSampleId :
 NC-HC-007

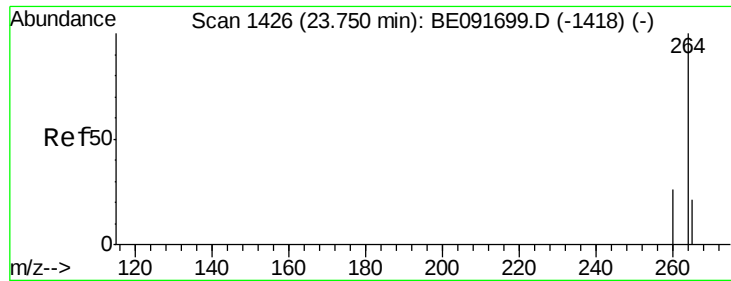
Tgt Ion: 149 Resp: 12101
 Ion Ratio Lower Upper
 149 100
 167 22.9 19.5 29.3
 279 0.0 10.0 15.0#



#34
 Indeno(1,2,3-cd)pyrene
 Concen: 0.35 ng
 RT: 26.29 min Scan# 1643
 Delta R.T. -0.01 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

Tgt Ion: 276 Resp: 24580
 Ion Ratio Lower Upper
 276 100
 138 22.4 23.4 35.2#
 277 25.0 19.8 29.8

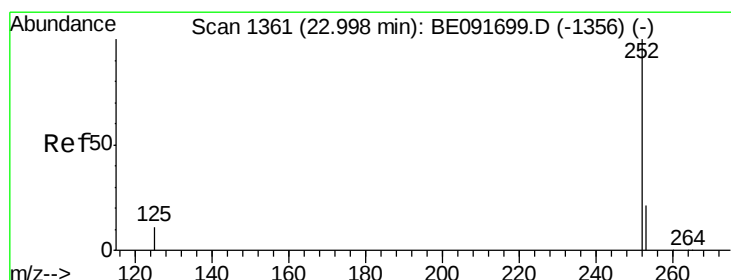
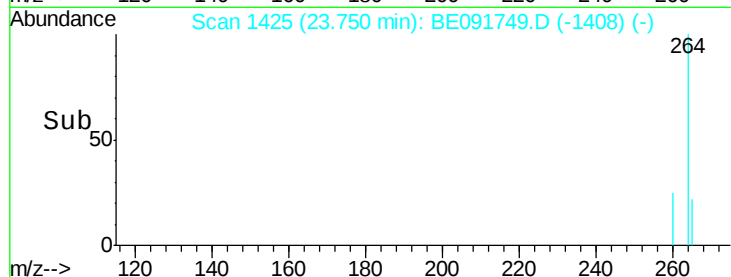
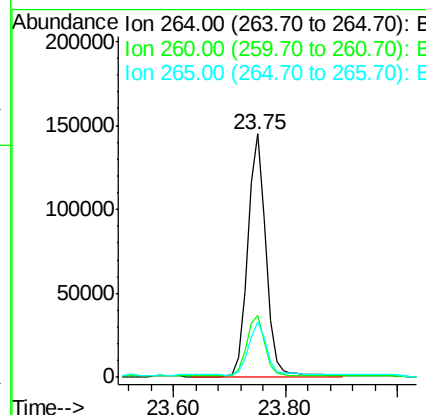
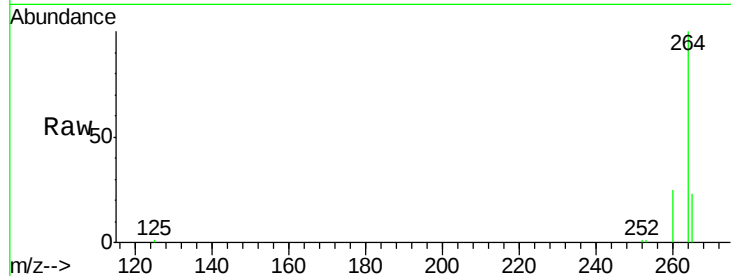




#35
Perylene-d12
 Concen: 5.00 ng
 RT: 23.75 min Scan# 1425
 Delta R.T. 0.00 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

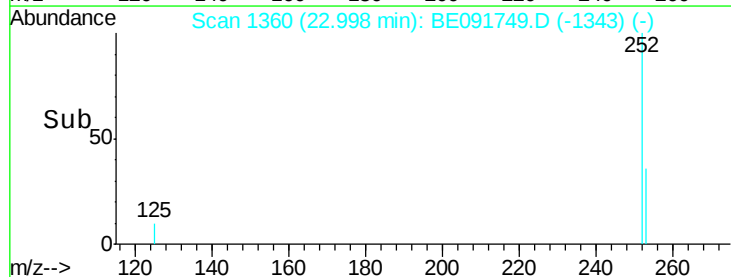
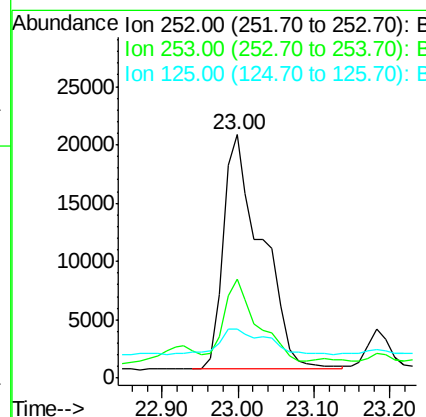
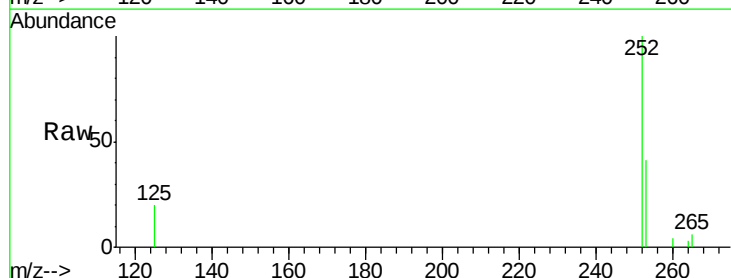
Instrument :
 BNA_E
 ClientSampleId :
 NC-HC-007

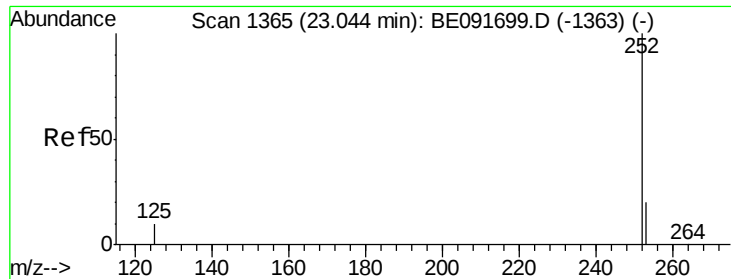
Tgt Ion: 264 Resp: 327667
 Ion Ratio Lower Upper
 264 100
 260 25.2 20.0 30.0
 265 22.8 17.5 26.3



#36
Benzo(b)fluoranthene
 Concen: 0.92 ng
 RT: 23.00 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: BE091749.D
 Acq: 3 May 2016 18:36

Tgt Ion: 252 Resp: 70953
 Ion Ratio Lower Upper
 252 100
 253 40.5 17.4 26.0#
 125 20.2 10.2 15.2#

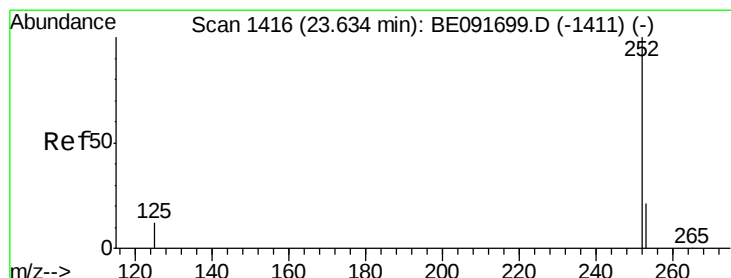
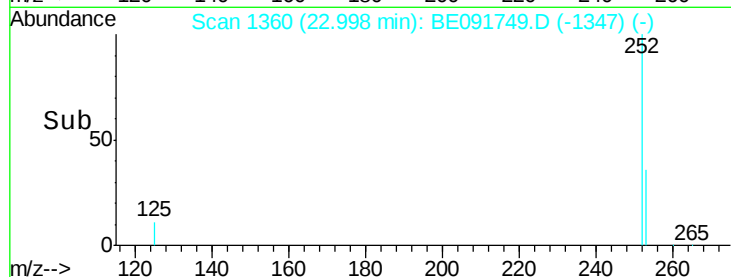
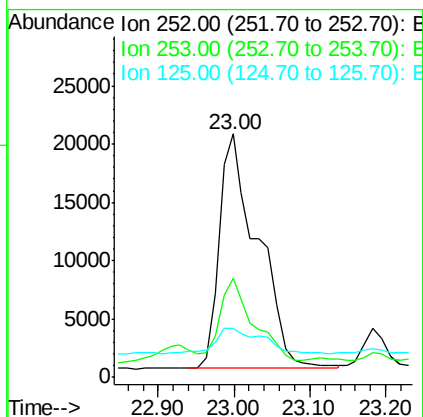
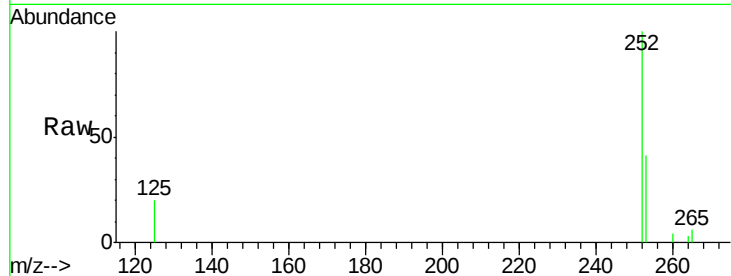




#37
Benzo(k)fluoranthene
Concen: 0.91 ng
RT: 23.00 min Scan# 1360
Delta R.T. -0.05 min
Lab File: BE091749.D
Acq: 3 May 2016 18:36

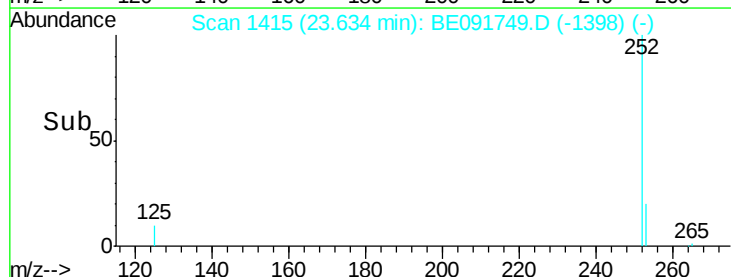
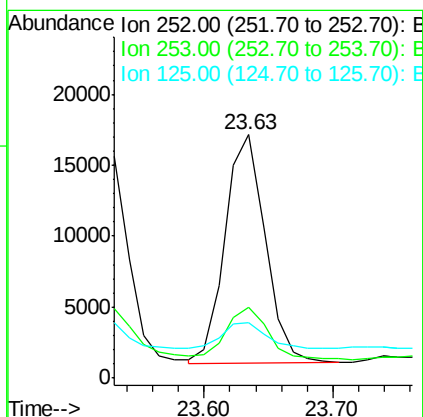
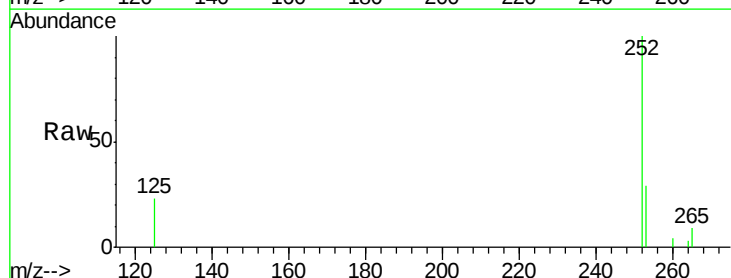
Instrument :
BNA_E
ClientSampleId :
NC-HC-007

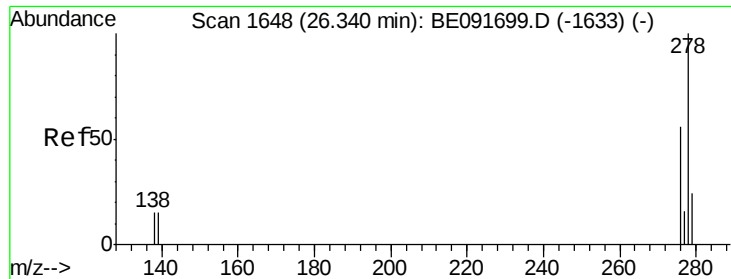
Tgt Ion: 252 Resp: 70953
Ion Ratio Lower Upper
252 100
253 40.5 17.6 26.4#
125 20.2 9.9 14.9#



#38
Benzo(a)pyrene
Concen: 0.48 ng
RT: 23.63 min Scan# 1415
Delta R.T. 0.00 min
Lab File: BE091749.D
Acq: 3 May 2016 18:36

Tgt Ion: 252 Resp: 34960
Ion Ratio Lower Upper
252 100
253 29.3 18.1 27.1#
125 22.5 11.0 16.4#





#39

Dibenzo(a,h)anthracene

Concen: 0.09 ng

RT: 26.32 min Scan# 1645

Delta R.T. -0.02 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

Instrument :

BNA_E

ClientSampleId :

NC-HC-007

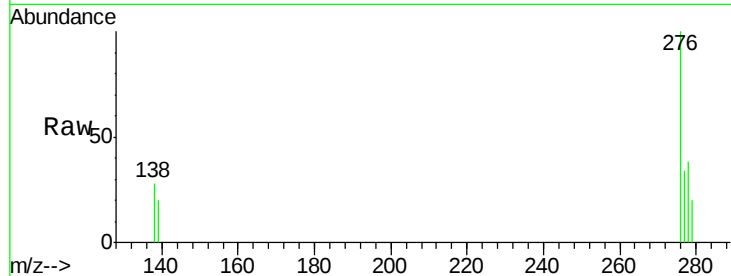
Tgt Ion:278 Resp: 6486

Ion Ratio Lower Upper

278 100

139 53.1 16.0 24.0#

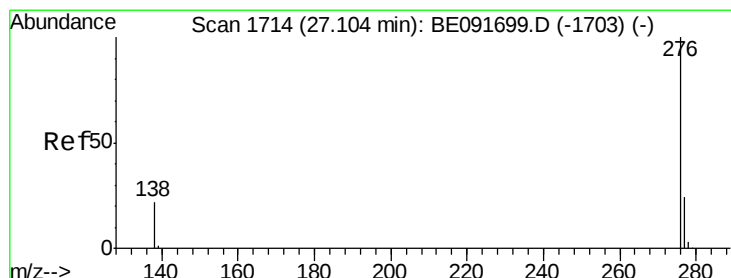
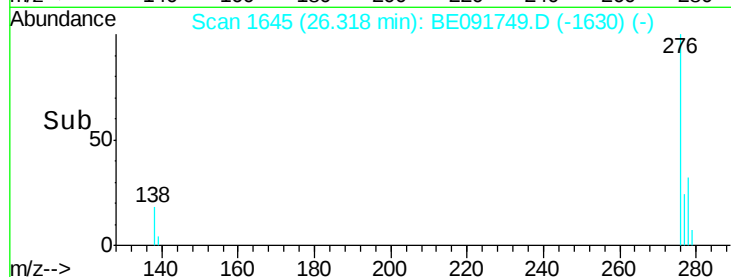
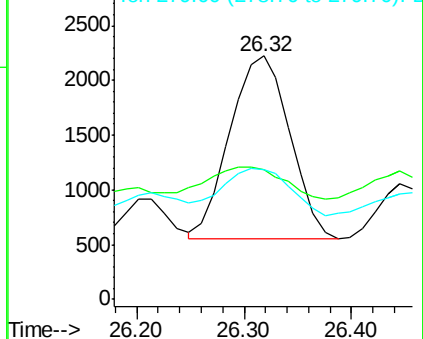
279 53.2 19.4 29.2#



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



#40

Benzo(g,h,i)perylene

Concen: 0.42 ng

RT: 27.09 min Scan# 1712

Delta R.T. -0.01 min

Lab File: BE091749.D

Acq: 3 May 2016 18:36

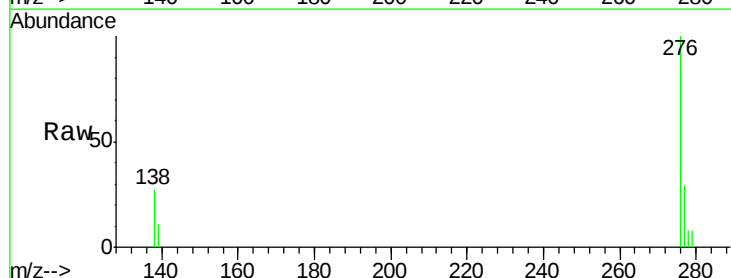
Tgt Ion:276 Resp: 29588

Ion Ratio Lower Upper

276 100

277 29.5 18.6 28.0#

138 26.9 20.4 30.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

