

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE081016\
 Data File : BE092258.D
 Acq On : 10 Aug 2016 17:10
 Operator : UM/SJ
 Sample : H4145-30RE
 Misc : confirmation run
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 9550

Quant Time: Aug 11 01:04:49 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE080916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 10 11:12:32 2016
 Response via : Initial Calibration

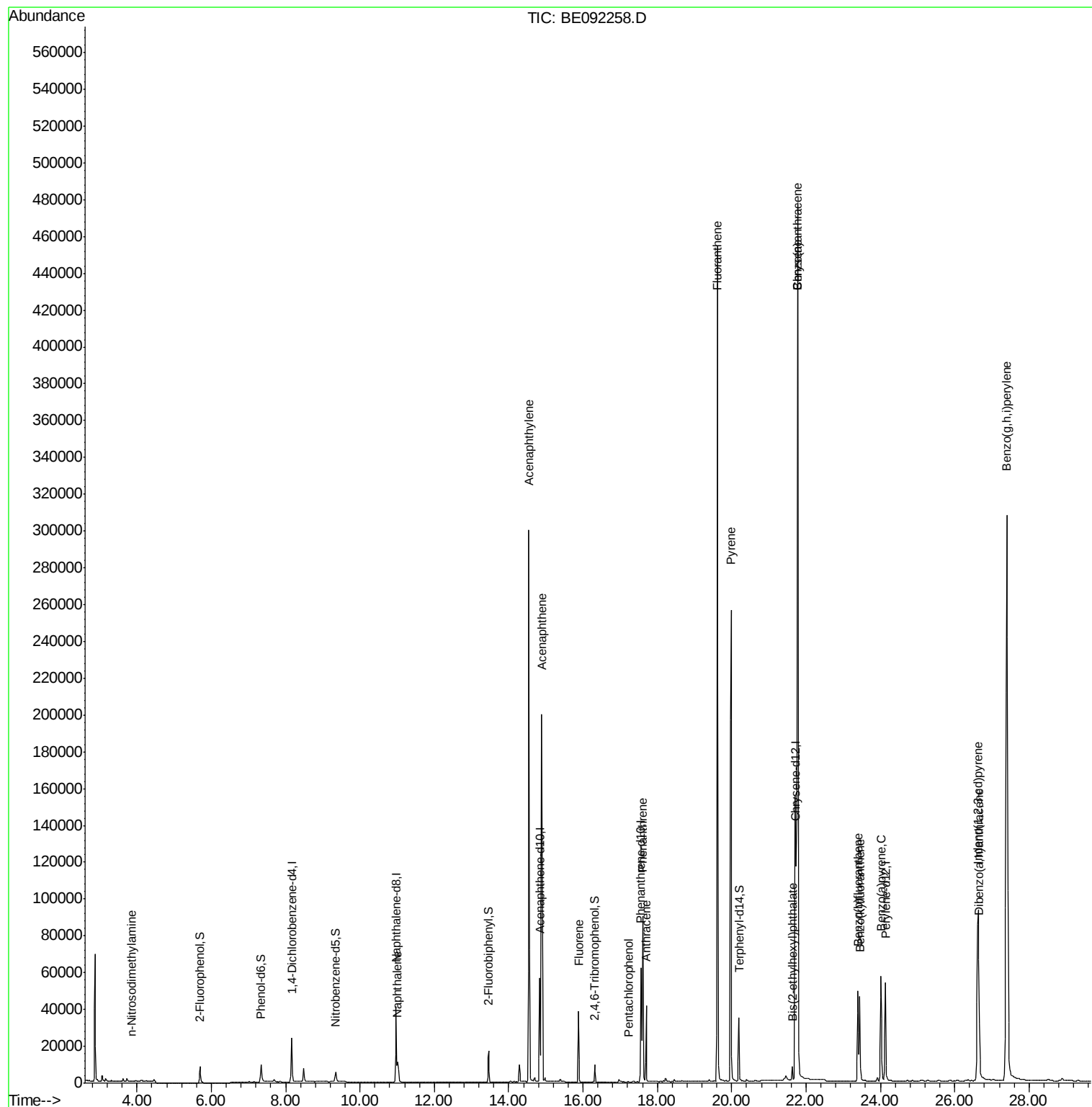
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	12575	5.00	ng	0.00
7) Naphthalene-d8	10.97	136	59695	5.00	ng	0.00
12) Acenaphthene-d10	14.83	164	33556	5.00	ng	0.00
18) Phenanthrene-d10	17.56	188	83699	5.00	ng	0.00
24) Chrysene-d12	21.73	240	77524	5.00	ng	-0.02
31) Perylene-d12	24.13	264	81798	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.69	112	8000	2.91	ng	-0.01
5) Phenol-d6	7.34	99	12978	3.28	ng	-0.02
8) Nitrobenzene-d5	9.34	82	6754	1.60	ng	-0.02
13) 2,4,6-Tribromophenol	16.32	330	6094	4.75	ng	-0.01
14) 2-Fluorobiphenyl	13.46	172	18809	1.81	ng	-0.01
26) Terphenyl-d14	20.19	244	40532	3.09	ng	0.00
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.86	42	19	0.16	ng	# 27
9) Naphthalene	11.01	128	17300	1.29	ng	# 94
15) Acenaphthylene	14.54	152	380850	6.56	ng	99
16) Acenaphthene	14.88	154	41414	4.45	ng	97
17) Fluorene	15.88	166	28690	2.55	ng	99
20) Pentachlorophenol	17.24	266	17	0.18	ng	# 80
21) Phenanthrene	17.60	178	110678	5.11	ng	100
22) Anthracene	17.70	178	54748	2.80	ng	98
23) Fluoranthene	19.61	202	595918	6.93	ng	99
25) Pyrene	19.99	202	385787	4.21	ng	99
27) Benzo(a)anthracene	21.77	228	753720	8.10	ng	96
28) Chrysene	21.77	228	758095	8.82	ng	95
29) Bis(2-ethylhexyl)phthalate	21.63	149	8271	0.74	ng	# 94
30) Indeno(1,2,3-cd)pyrene	26.63	276	207930	2.25	ng	99
32) Benzo(b)fluoranthene	23.39	252	72859	3.39	ng	97
33) Benzo(k)fluoranthene	23.44	252	59091	2.73	ng	97
34) Benzo(a)pyrene	24.02	252	91675	4.53	ng	# 94
35) Dibenzo(a,h)anthracene	26.65	278	34985	1.86	ng	94
36) Benzo(g,h,i)perylene	27.40	276	723048	8.92	ng	95

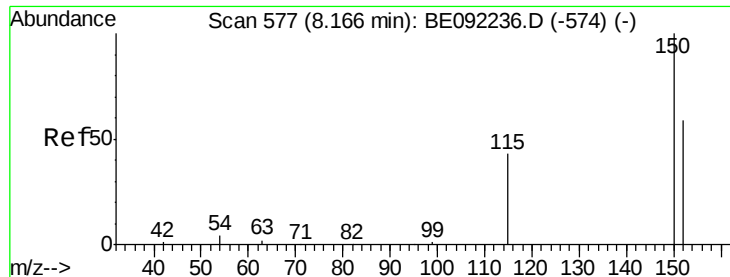
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 577

Delta R.T. 0.00 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

Instrument :

BNA_E

ClientSampleId :

9550

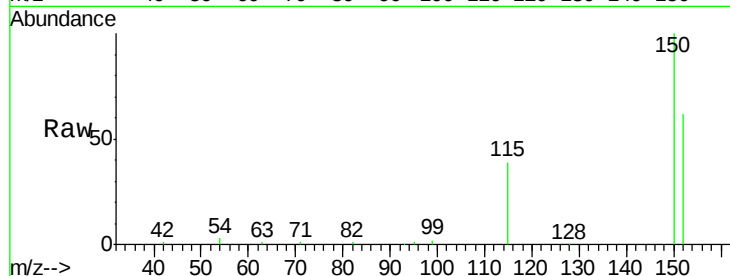
Tgt Ion:152 Resp: 12575

Ion Ratio Lower Upper

152 100

150 162.6 135.6 203.4

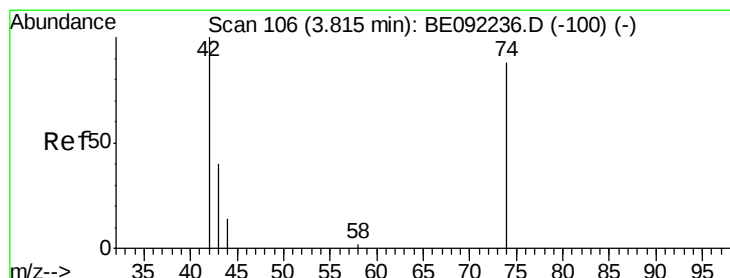
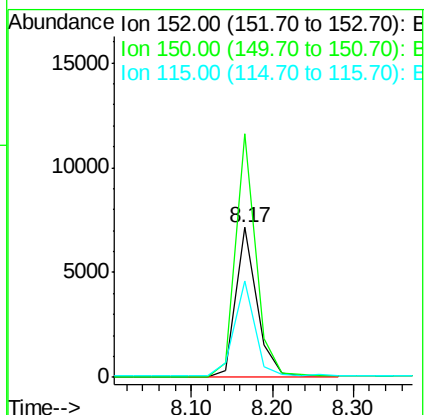
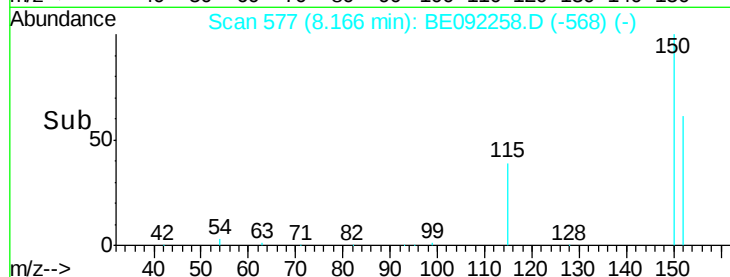
115 64.1 59.4 89.0



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: 0.16 ng

RT: 3.86 min Scan# 110

Delta R.T. 0.05 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

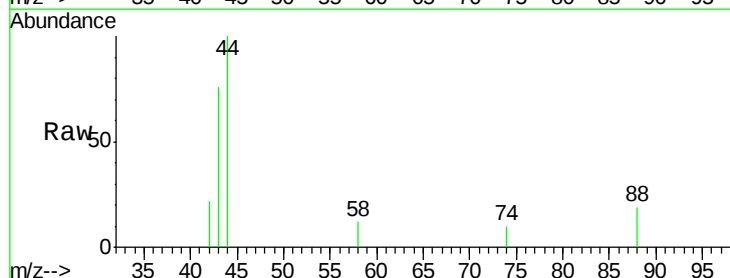
Tgt Ion: 42 Resp: 19

Ion Ratio Lower Upper

42 100

74 21.1 77.2 115.8#

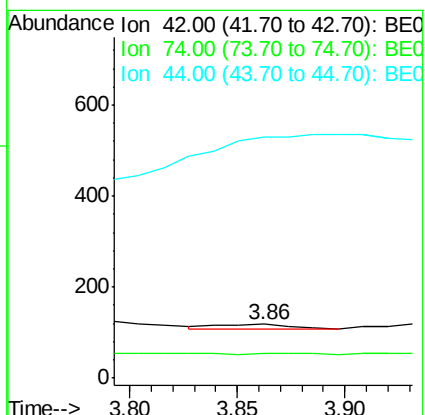
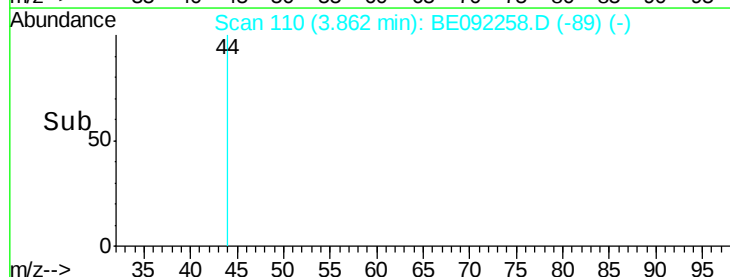
44 0.0 5.0 7.4#

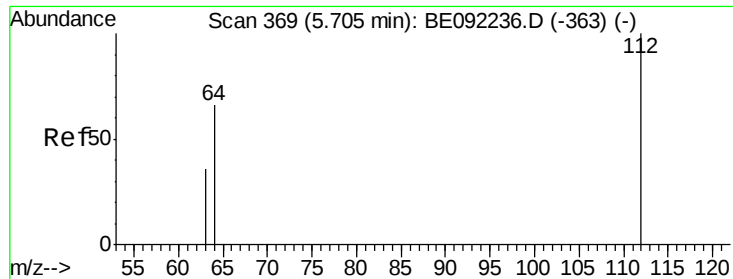


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 2.91 ng

RT: 5.69 min Scan# 367

Delta R.T. -0.01 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

Instrument :

BNA_E

ClientSampleId :

9550

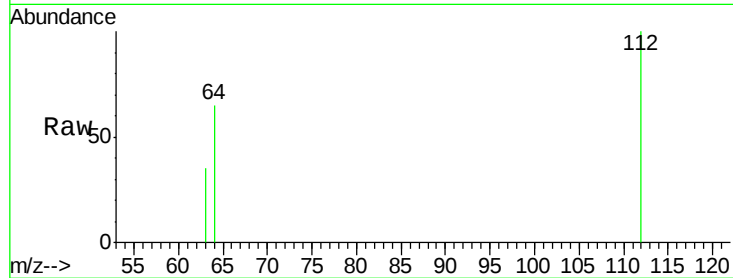
Tgt Ion: 112 Resp: 8000

Ion Ratio Lower Upper

112 100

64 67.0 53.2 79.8

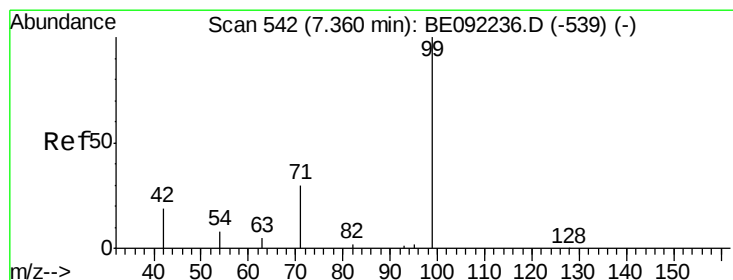
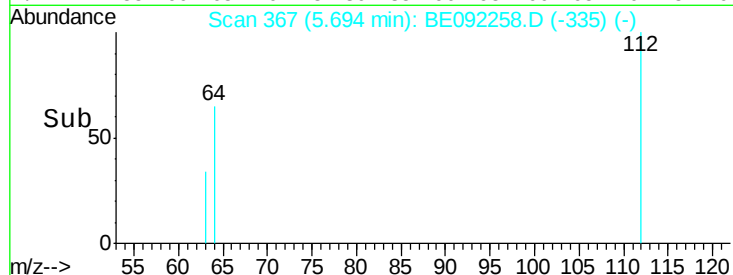
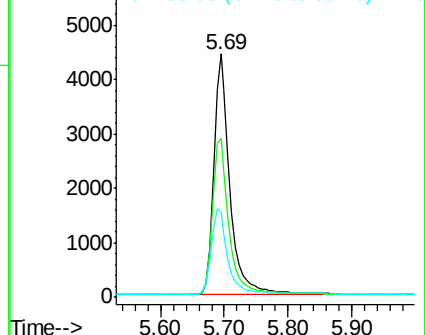
63 37.0 27.4 41.2



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: 3.28 ng

RT: 7.34 min Scan# 541

Delta R.T. -0.02 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

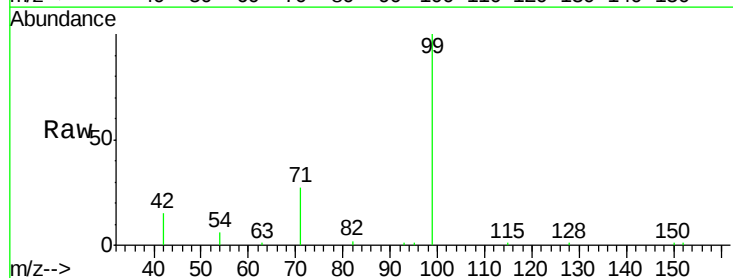
Tgt Ion: 99 Resp: 12978

Ion Ratio Lower Upper

99 100

42 0.0 0.0 0.0

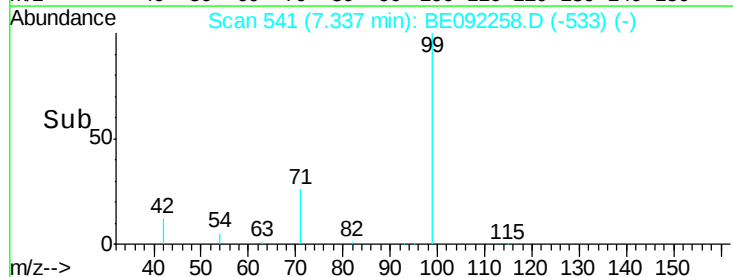
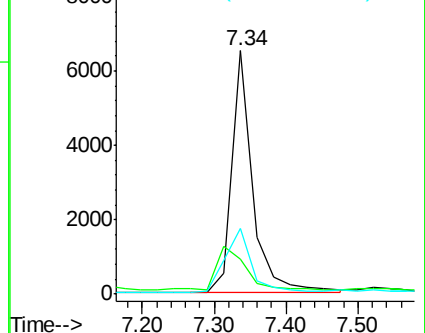
71 33.5 29.8 44.8

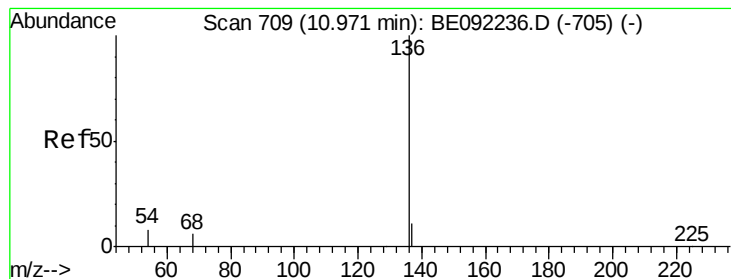


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.00 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

Instrument :

BNA_E

ClientSampleId :

9550

Tgt Ion:136 Resp: 59695

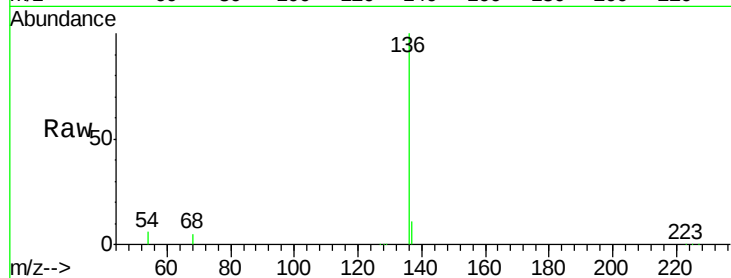
Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

54 6.3 6.2 9.4

68 4.9 4.6 6.8

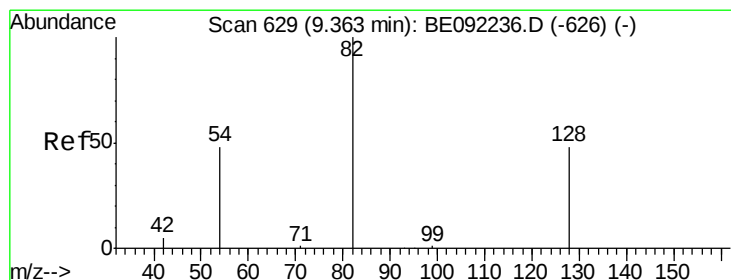
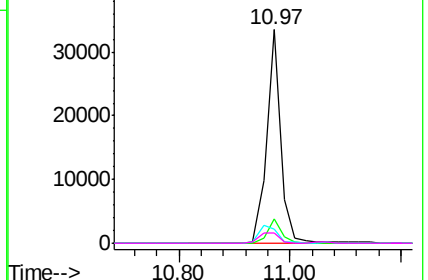
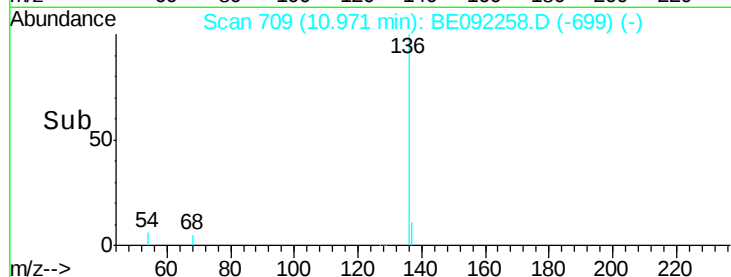


Abundance Ion 136.00 (135.70 to 136.70): E

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: 1.60 ng

RT: 9.34 min Scan# 628

Delta R.T. -0.02 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

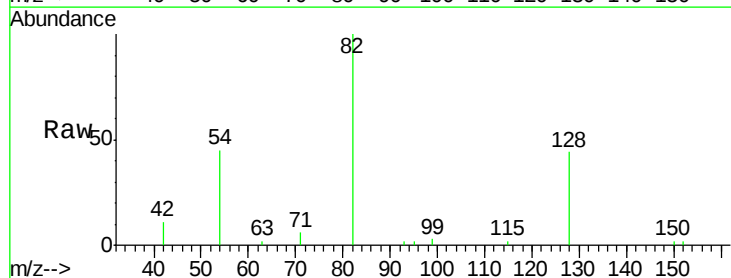
Tgt Ion: 82 Resp: 6754

Ion Ratio Lower Upper

82 100

128 43.8 45.0 67.4#

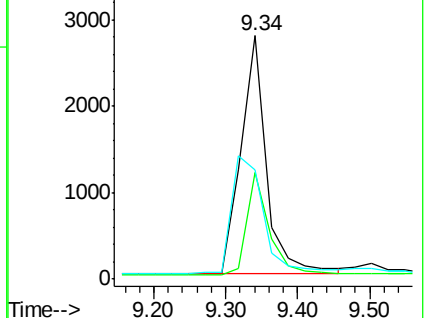
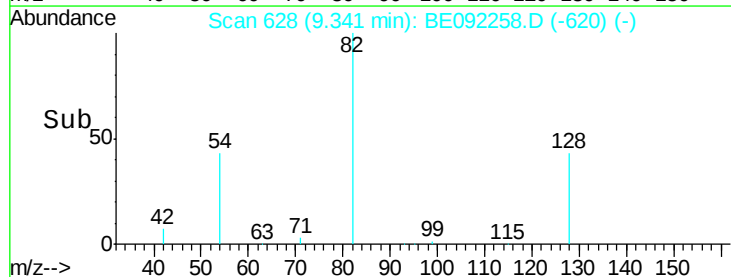
54 44.8 45.4 68.2#

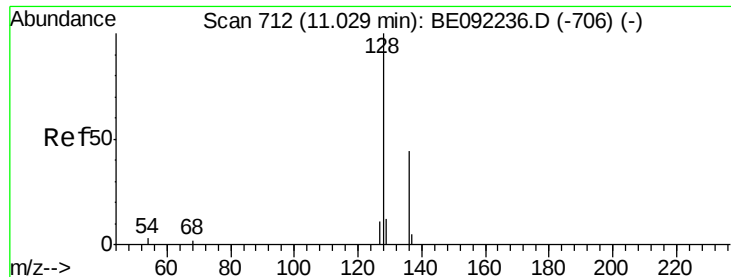


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 1.29 ng

RT: 11.01 min Scan# 711

Delta R.T. -0.02 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

Instrument :

BNA_E

ClientSampleId :

9550

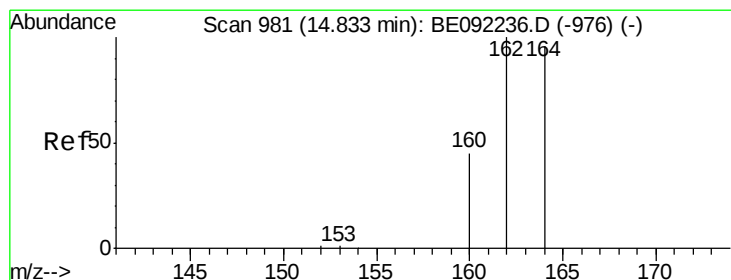
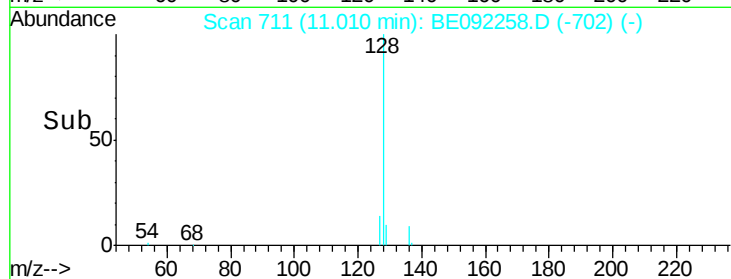
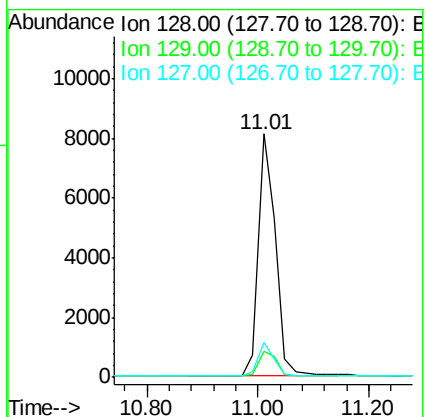
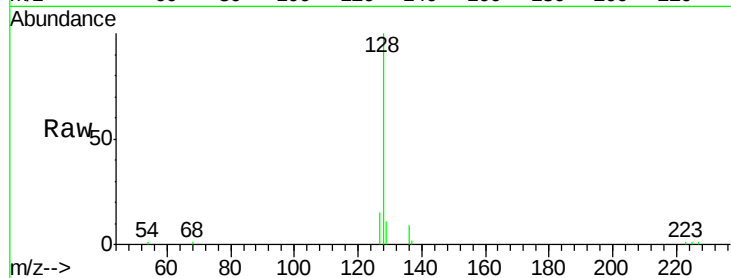
Tgt Ion:128 Resp: 17300

Ion Ratio Lower Upper

128 100

129 10.6 11.5 17.3#

127 14.6 11.0 16.6



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 981

Delta R.T. -0.00 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

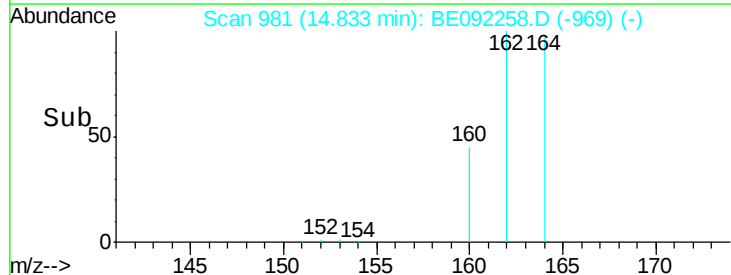
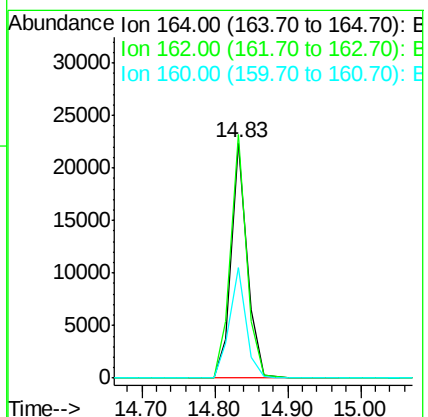
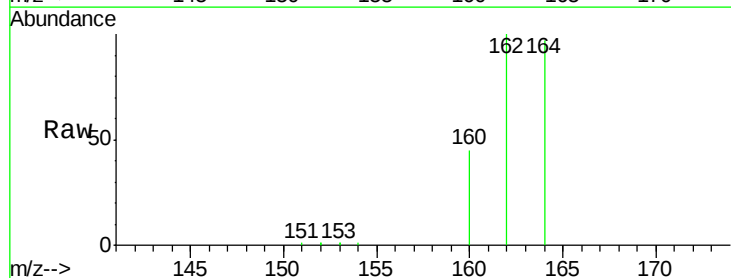
Tgt Ion:164 Resp: 33556

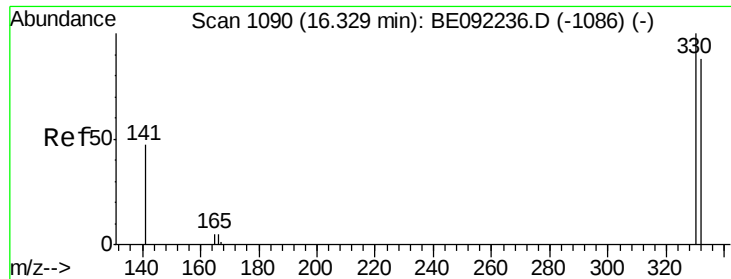
Ion Ratio Lower Upper

164 100

162 103.5 83.3 124.9

160 46.7 38.0 57.0

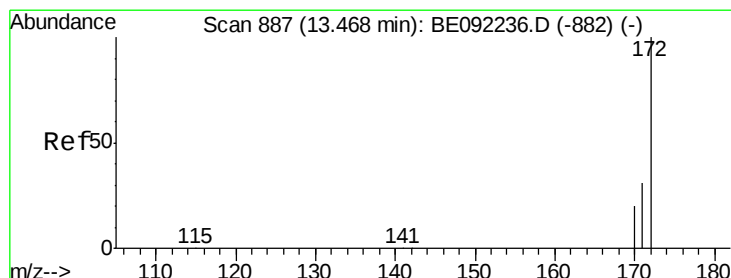
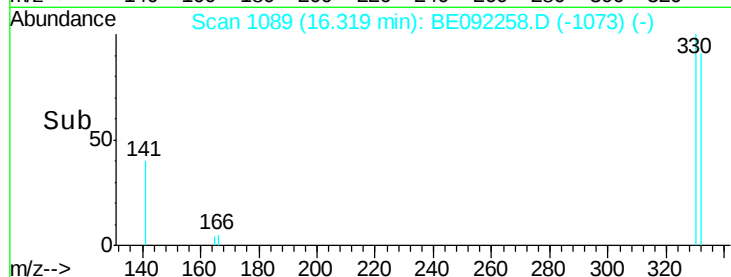
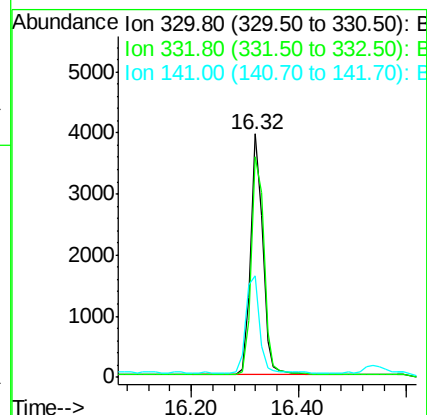
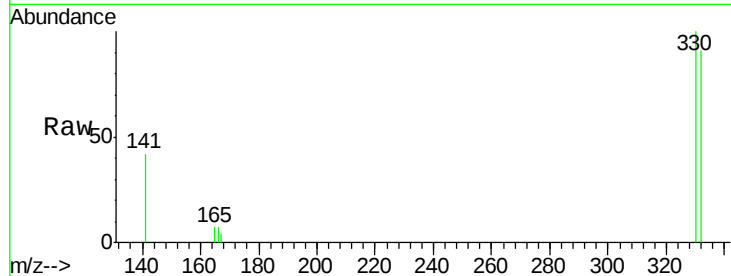




#13
 2,4,6-Tribromophenol
 Concen: 4.75 ng
 RT: 16.32 min Scan# 1089
 Delta R.T. -0.01 min
 Lab File: BE092258.D
 Acq: 10 Aug 2016 17:10

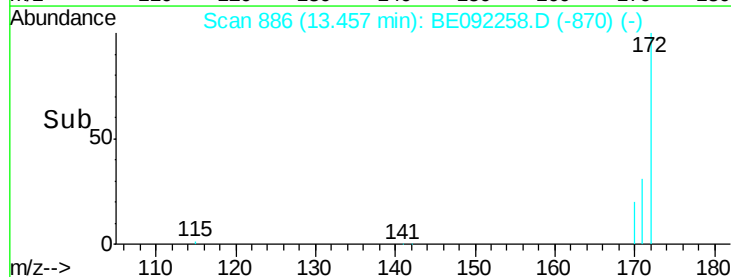
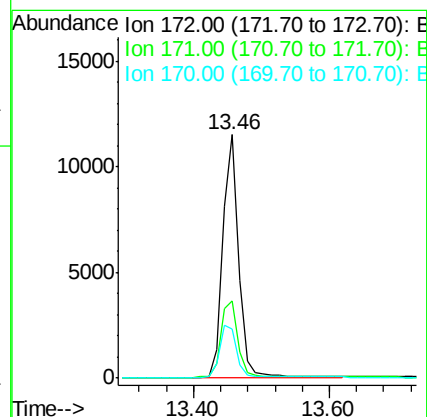
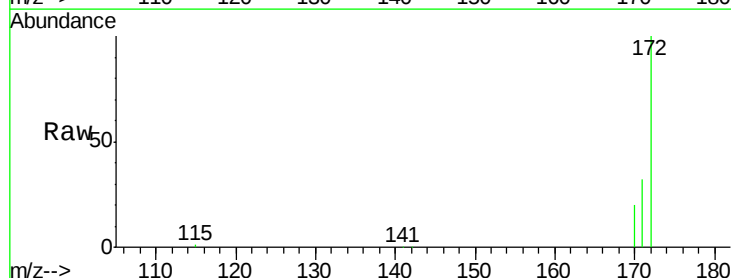
Instrument :
 BNA_E
 ClientSampled :
 9550

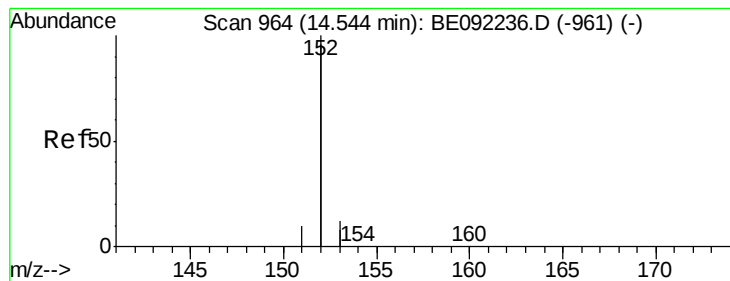
Tgt Ion: 330 Resp: 6094
 Ion Ratio Lower Upper
 330 100
 332 97.2 75.4 113.0
 141 45.8 37.7 56.5



#14
 2-Fluorobiphenyl
 Concen: 1.81 ng
 RT: 13.46 min Scan# 886
 Delta R.T. -0.01 min
 Lab File: BE092258.D
 Acq: 10 Aug 2016 17:10

Tgt Ion: 172 Resp: 18809
 Ion Ratio Lower Upper
 172 100
 171 31.6 26.8 40.2
 170 20.0 17.8 26.6





#15

Acenaphthylene

Concen: 6.56 ng

RT: 14.54 min Scan# 964

Delta R.T. -0.00 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

Instrument :

BNA_E

ClientSampleId :

9550

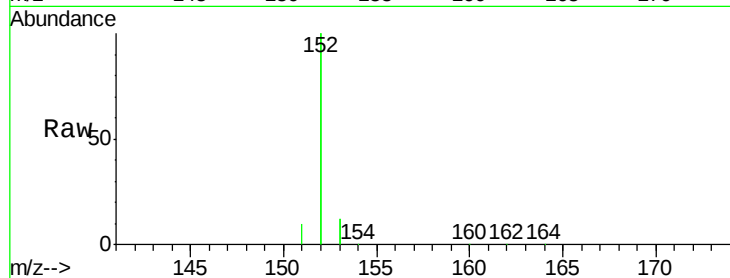
Tgt Ion:152 Resp: 380850

Ion Ratio Lower Upper

152 100

151 5.0 3.8 5.8

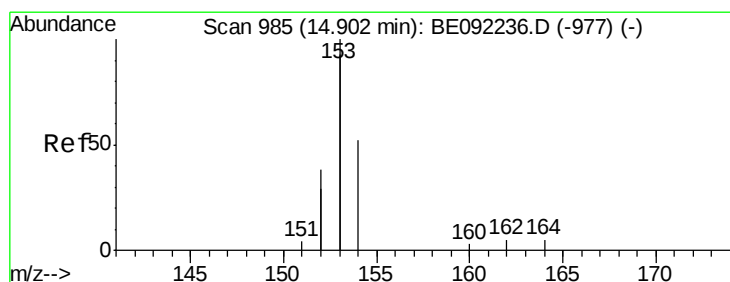
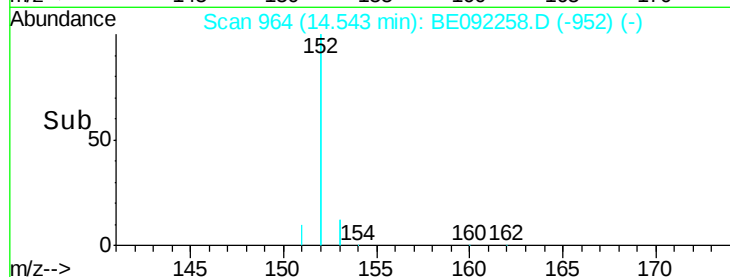
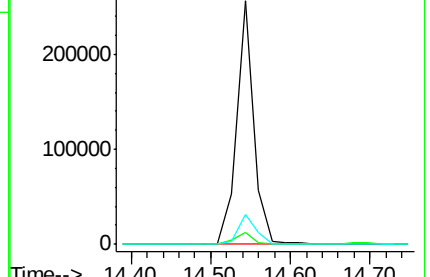
153 13.0 10.2 15.2



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



#16

Acenaphthene

Concen: 4.45 ng

RT: 14.88 min Scan# 984

Delta R.T. -0.02 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

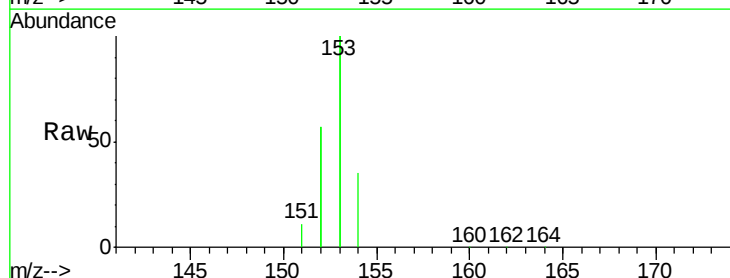
Tgt Ion:154 Resp: 41414

Ion Ratio Lower Upper

154 100

153 454.2 355.0 532.4

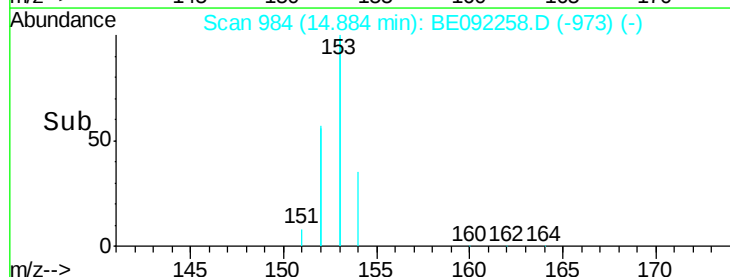
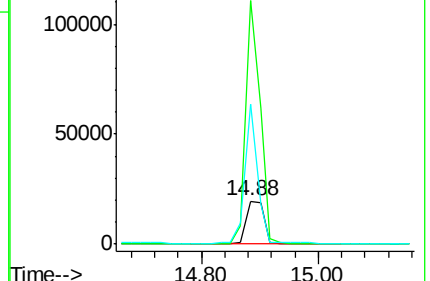
152 225.2 179.7 269.5

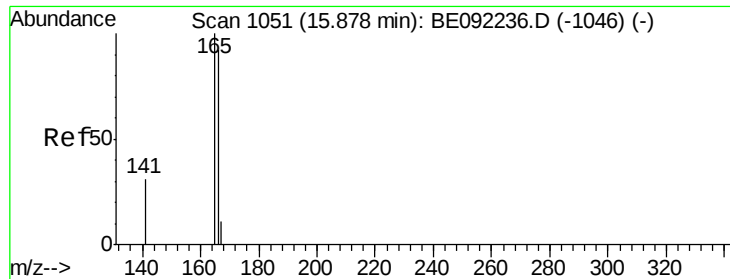


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#17

Fluorene

Concen: 2.55 ng

RT: 15.88 min Scan# 1051

Delta R.T. 0.00 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

Instrument :

BNA_E

ClientSampleId :

9550

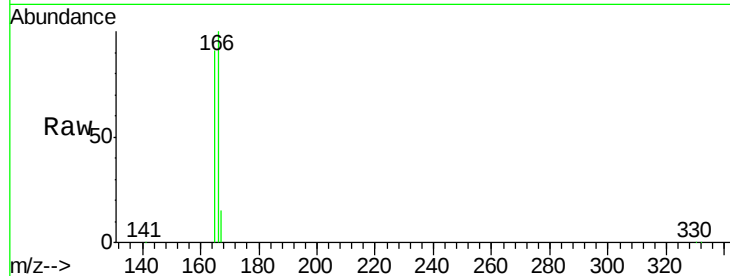
Tgt Ion:166 Resp: 28690

Ion Ratio Lower Upper

166 100

165 99.3 80.1 120.1

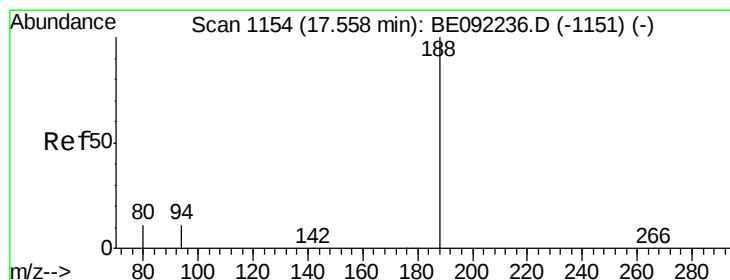
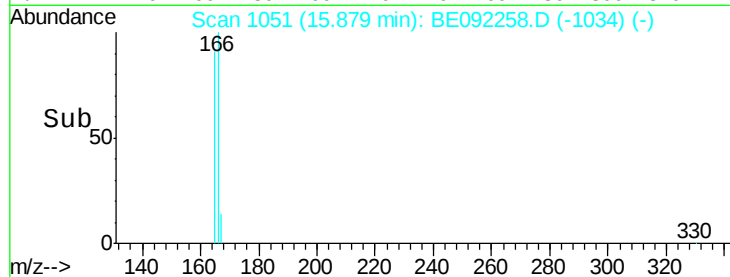
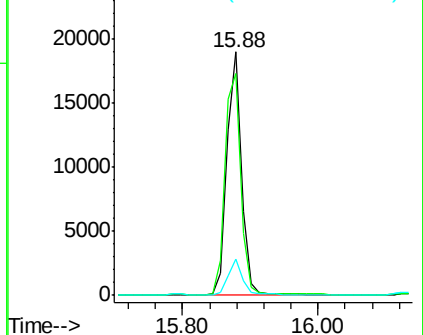
167 14.2 10.6 16.0



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



#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1154

Delta R.T. 0.00 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

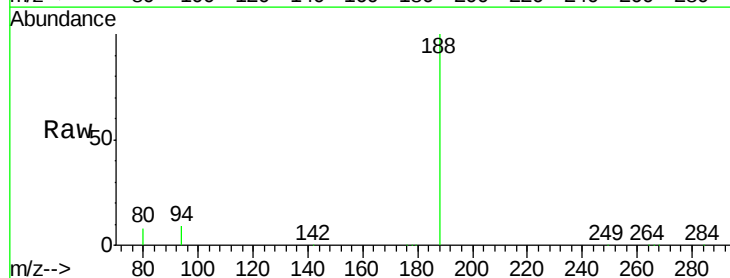
Tgt Ion:188 Resp: 83699

Ion Ratio Lower Upper

188 100

94 8.8 9.2 13.8#

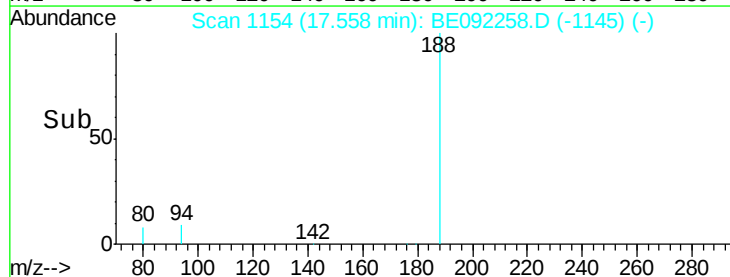
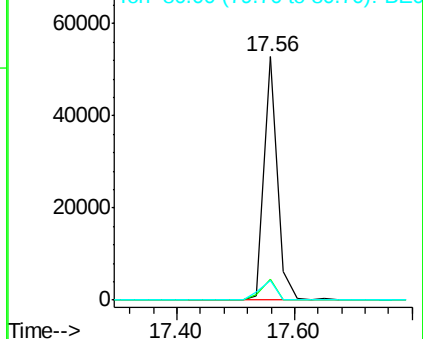
80 8.0 9.1 13.7#

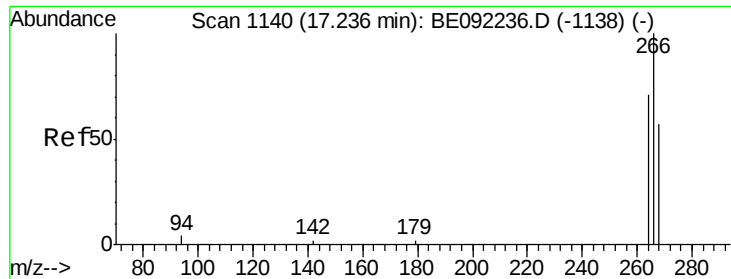


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

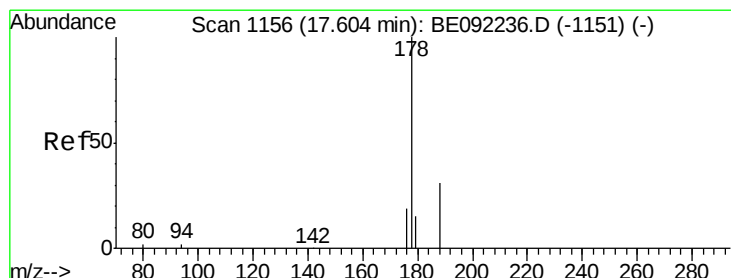
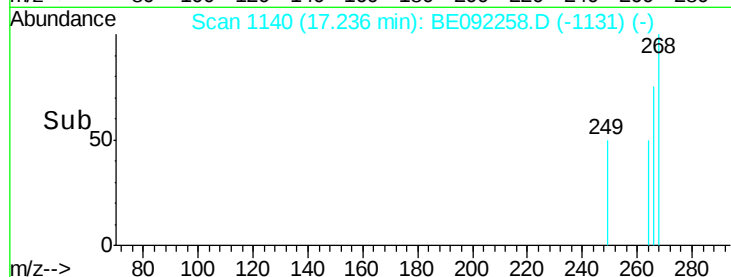
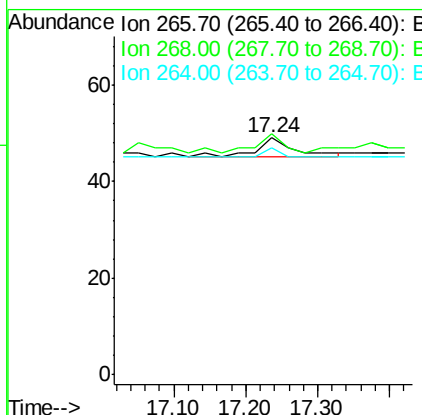
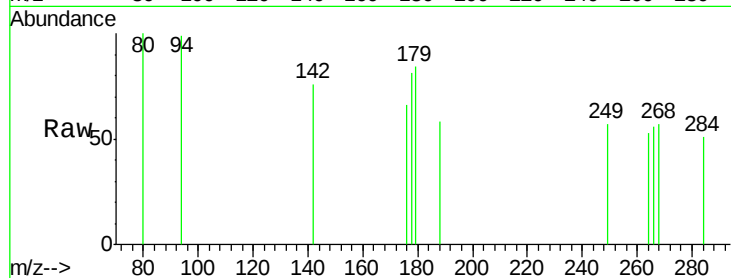




#20
 Pentachlorophenol
 Concen: 0.18 ng
 RT: 17.24 min Scan# 1140
 Delta R.T. 0.00 min
 Lab File: BE092258.D
 Acq: 10 Aug 2016 17:10

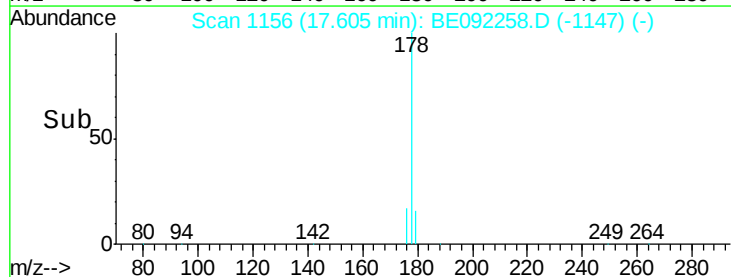
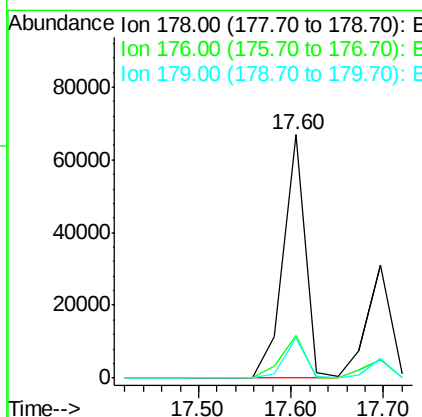
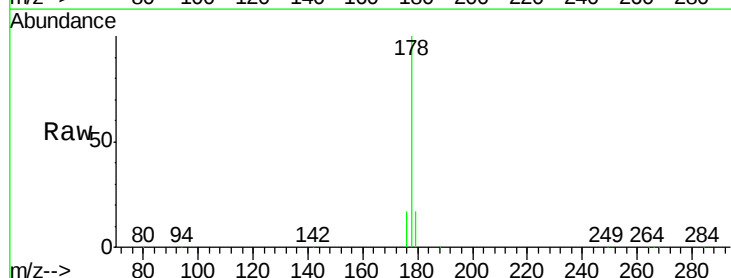
Instrument :
 BNA_E
 ClientSampleId :
 9550

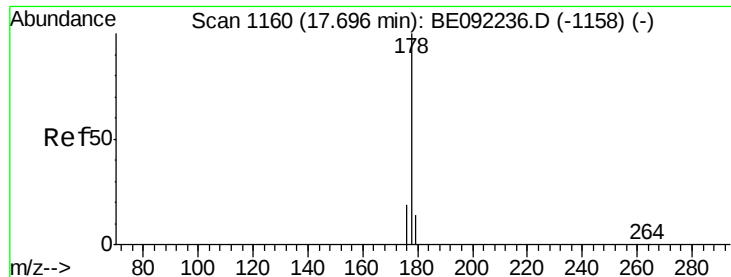
Tgt Ion: 266 Resp: 17
 Ion Ratio Lower Upper
 266 100
 268 102.0 62.3 93.5#
 264 95.9 67.4 101.0



#21
 Phenanthrene
 Concen: 5.11 ng
 RT: 17.60 min Scan# 1156
 Delta R.T. 0.00 min
 Lab File: BE092258.D
 Acq: 10 Aug 2016 17:10

Tgt Ion: 178 Resp: 110678
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.1 22.7
 179 15.9 12.9 19.3





#22

Anthracene

Concen: 2.80 ng

RT: 17.70 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

Instrument :

BNA_E

ClientSampleId :

9550

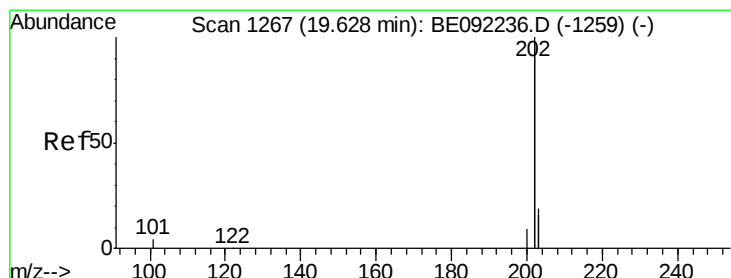
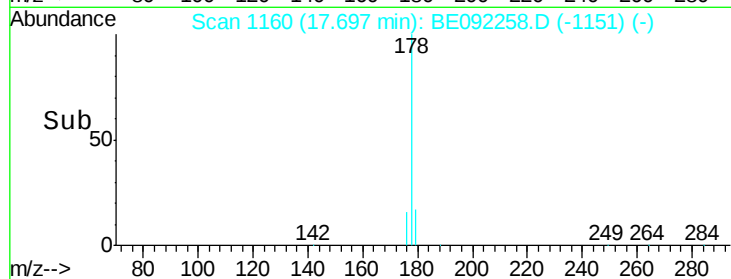
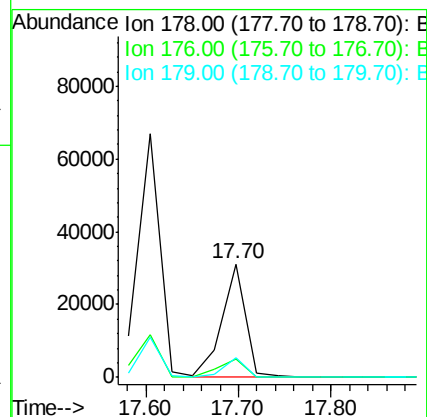
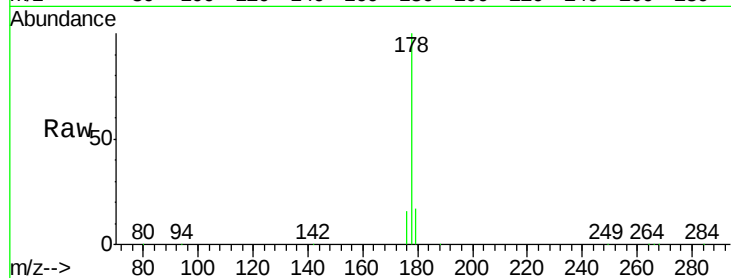
Tgt Ion:178 Resp: 54748

Ion Ratio Lower Upper

178 100

176 18.3 15.0 22.4

179 16.1 12.0 18.0



#23

Fluoranthene

Concen: 6.93 ng

RT: 19.61 min Scan# 1266

Delta R.T. -0.02 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

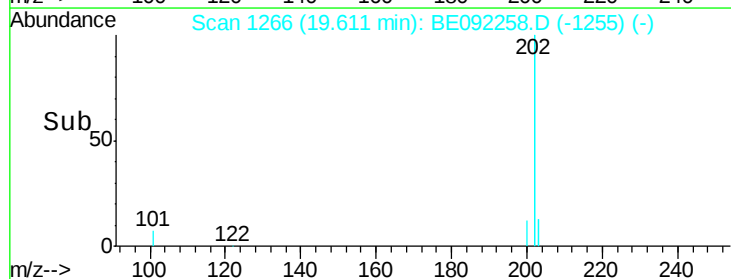
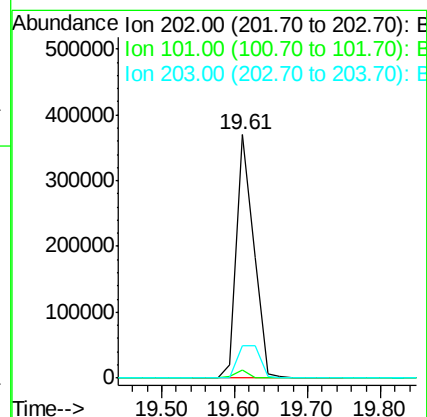
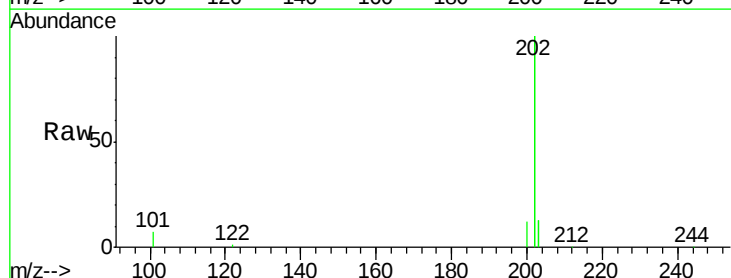
Tgt Ion:202 Resp: 595918

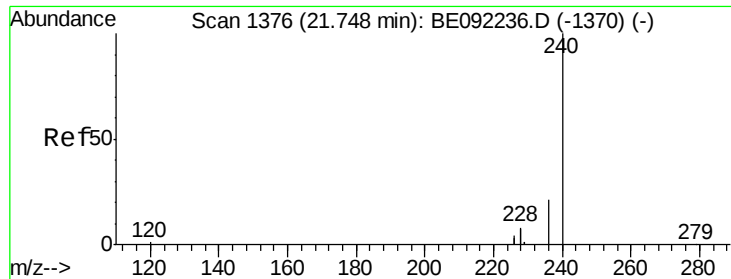
Ion Ratio Lower Upper

202 100

101 2.9 2.2 3.4

203 17.7 13.7 20.5

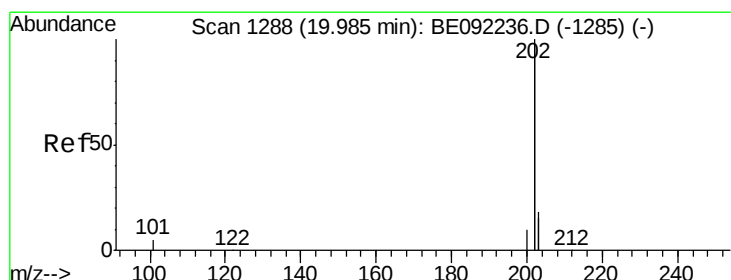
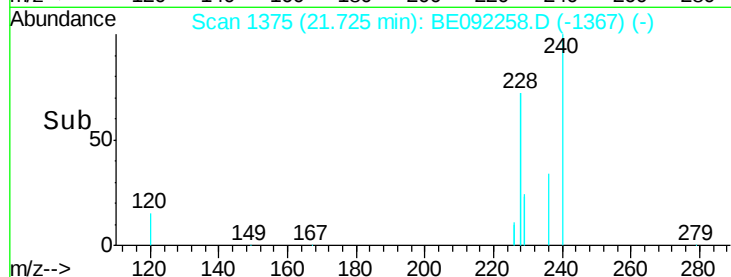
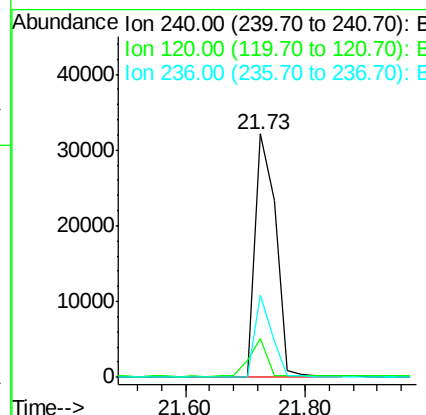
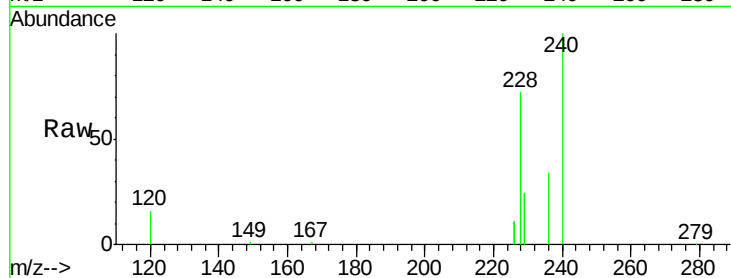




#24
Chrysene-d12
Concen: 5.00 ng
RT: 21.73 min Scan# 1375
Delta R.T. -0.02 min
Lab File: BE092258.D
Acq: 10 Aug 2016 17:10

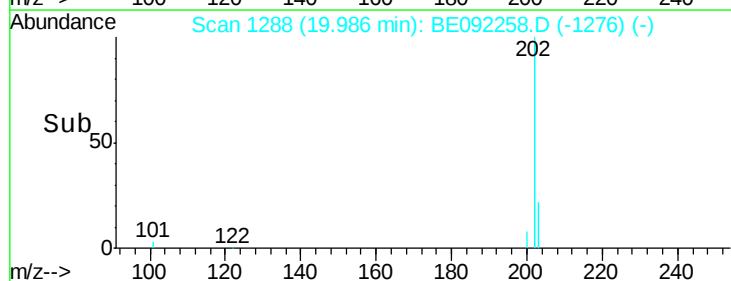
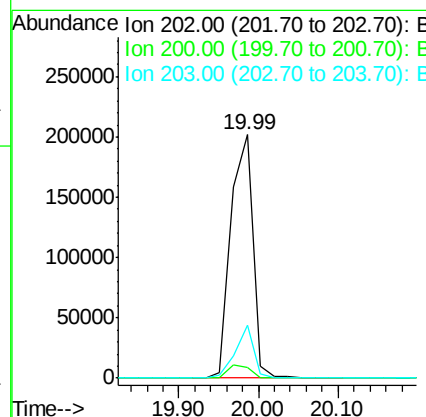
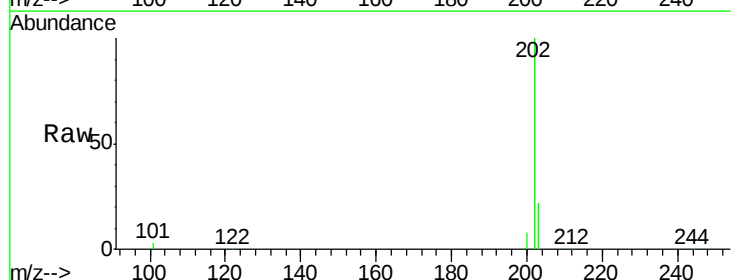
Instrument :
BNA_E
ClientSampleId :
9550

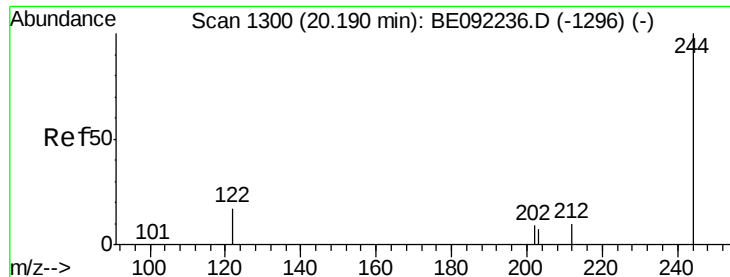
Tgt Ion:240 Resp: 77524
Ion Ratio Lower Upper
240 100
120 15.8 1.2 1.8#
236 34.0 17.1 25.7#



#25
Pyrene
Concen: 4.21 ng
RT: 19.99 min Scan# 1288
Delta R.T. 0.00 min
Lab File: BE092258.D
Acq: 10 Aug 2016 17:10

Tgt Ion:202 Resp: 385787
Ion Ratio Lower Upper
202 100
200 5.4 4.2 6.4
203 17.8 14.0 21.0

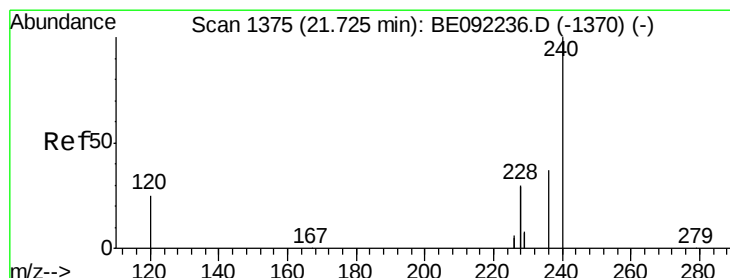
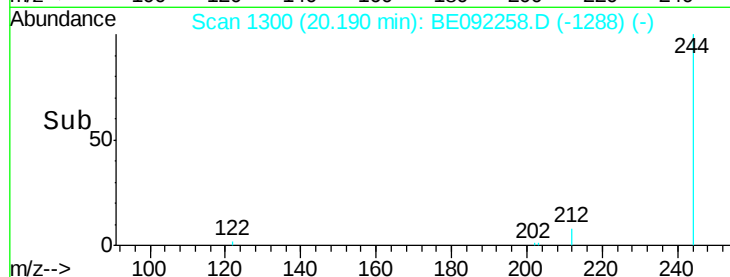
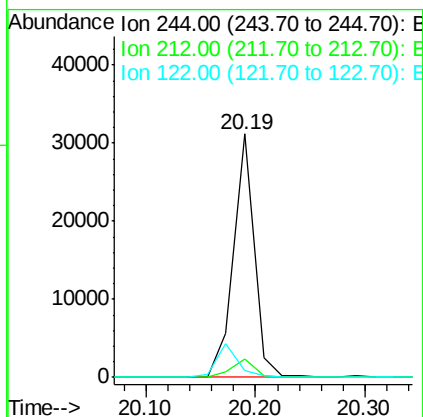
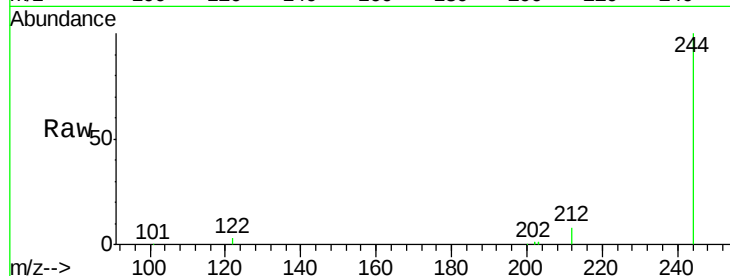




#26
 Terphenyl-d14
 Concen: 3.09 ng
 RT: 20.19 min Scan# 1300
 Delta R.T. 0.00 min
 Lab File: BE092258.D
 Acq: 10 Aug 2016 17:10

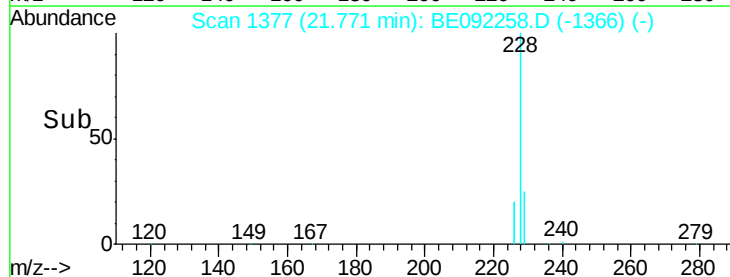
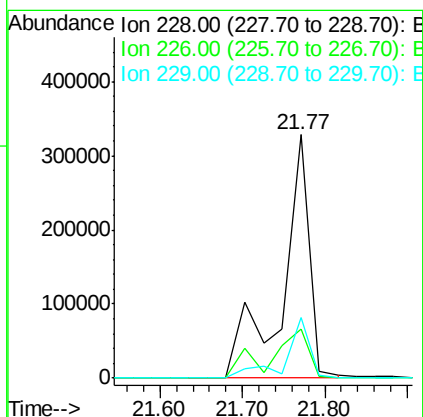
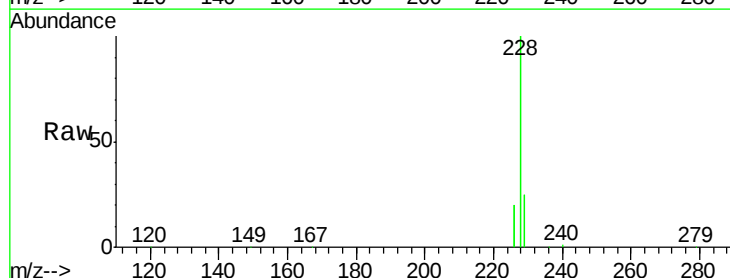
Instrument :
 BNA_E
 ClientSampleId :
 9550

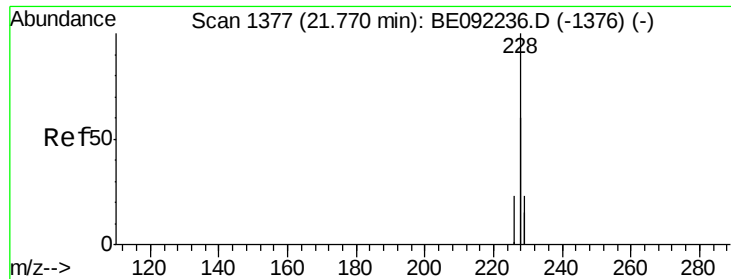
Tgt Ion:244 Resp: 40532
 Ion Ratio Lower Upper
 244 100
 212 7.7 10.2 15.2#
 122 3.0 15.9 23.9#



#27
 Benzo(a)anthracene
 Concen: 8.10 ng
 RT: 21.77 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: BE092258.D
 Acq: 10 Aug 2016 17:10

Tgt Ion:228 Resp: 753720
 Ion Ratio Lower Upper
 228 100
 226 20.1 15.9 23.9
 229 24.9 22.4 33.6





#28

Chrysene

Concen: 8.82 ng

RT: 21.77 min Scan# 1377

Delta R.T. 0.00 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

Instrument :

BNA_E

ClientSampleId :

9550

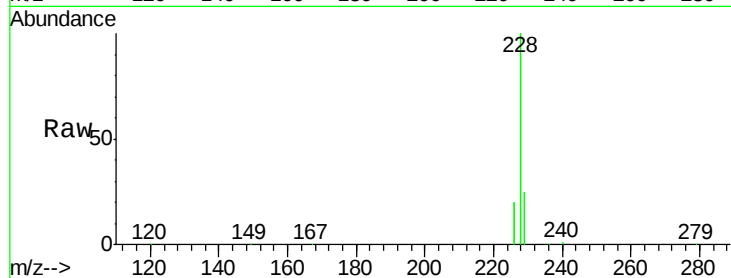
Tgt Ion:228 Resp: 758095

Ion Ratio Lower Upper

228 100

226 20.1 18.3 27.5

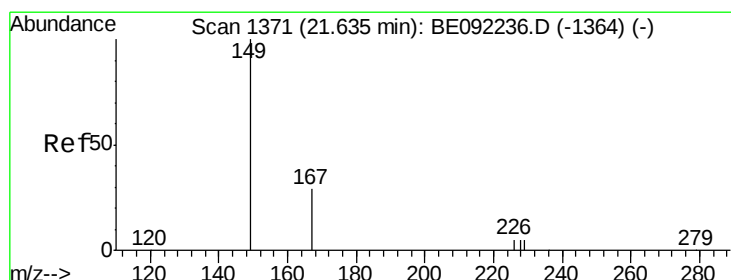
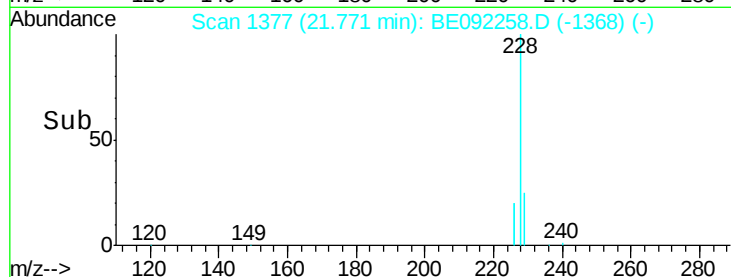
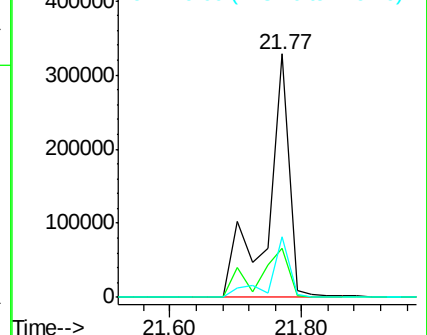
229 24.9 18.6 27.8



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



#29

Bis(2-ethylhexyl)phthalate

Concen: 0.74 ng

RT: 21.63 min Scan# 1371

Delta R.T. 0.00 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

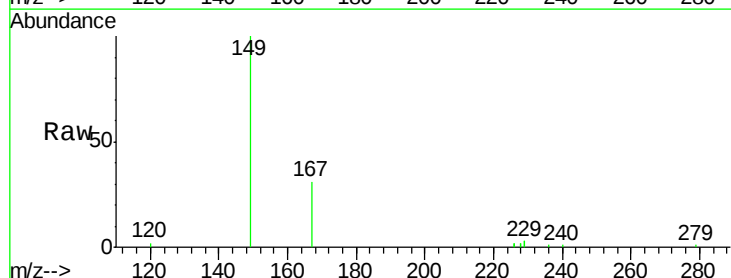
Tgt Ion:149 Resp: 8271

Ion Ratio Lower Upper

149 100

167 31.0 22.1 33.1

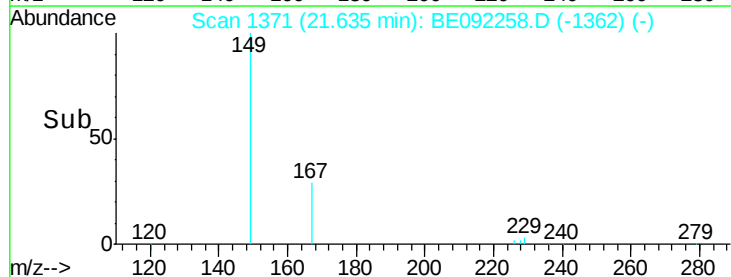
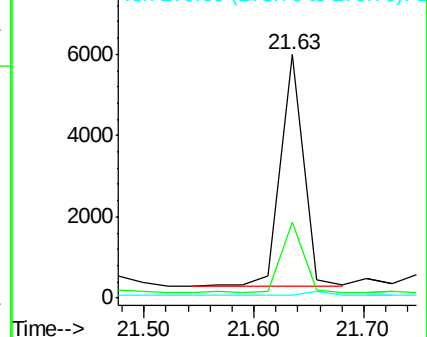
279 0.0 0.0 0.0

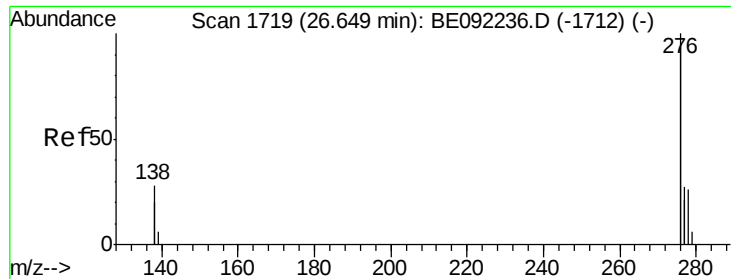


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#30

Indeno(1,2,3-cd)pyrene

Concen: 2.25 ng

RT: 26.63 min Scan# 1718

Delta R.T. -0.02 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

Instrument :

BNA_E

ClientSampleId :

9550

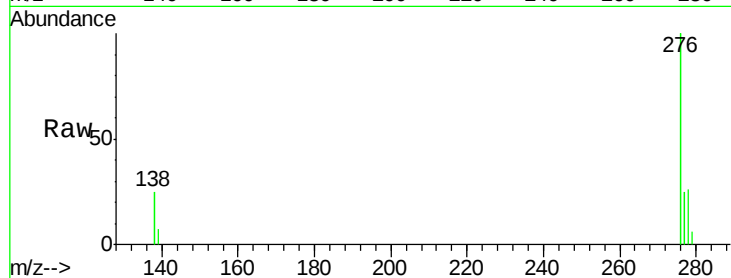
Tgt Ion: 276 Resp: 207930

Ion Ratio Lower Upper

276 100

138 25.6 21.3 31.9

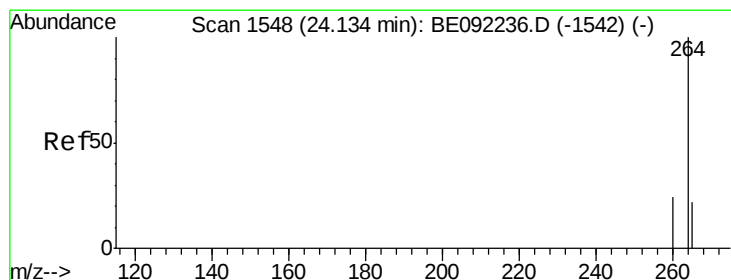
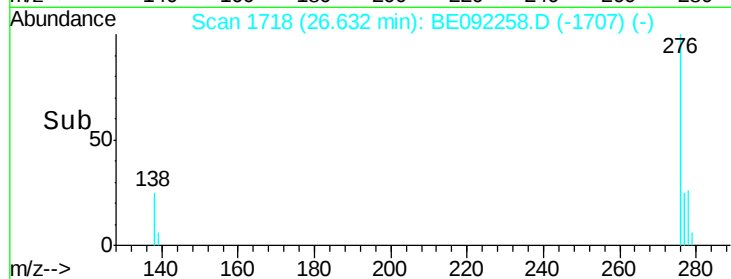
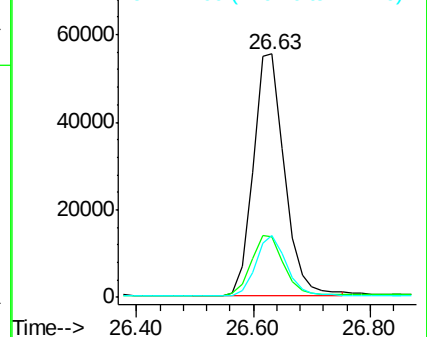
277 24.4 19.7 29.5



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



#31

Perylene-d12

Concen: 5.00 ng

RT: 24.13 min Scan# 1548

Delta R.T. 0.00 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

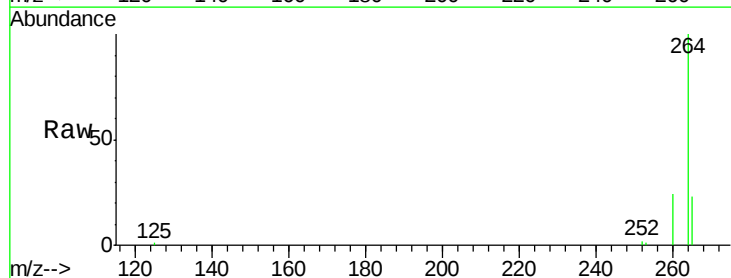
Tgt Ion: 264 Resp: 81798

Ion Ratio Lower Upper

264 100

260 24.0 19.5 29.3

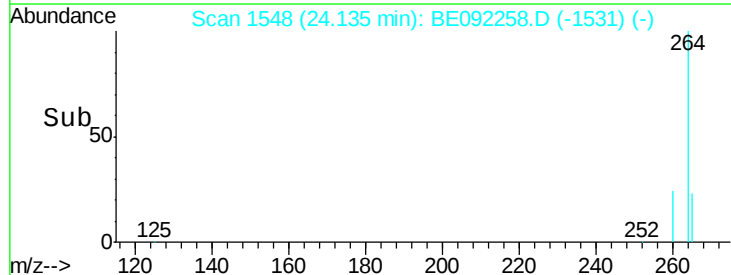
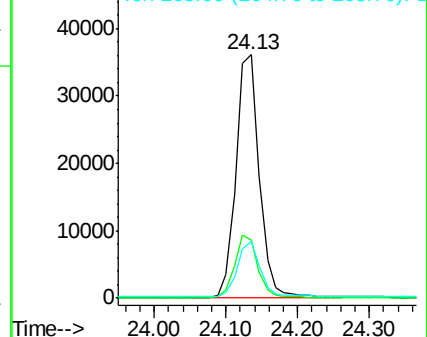
265 23.2 18.2 27.4

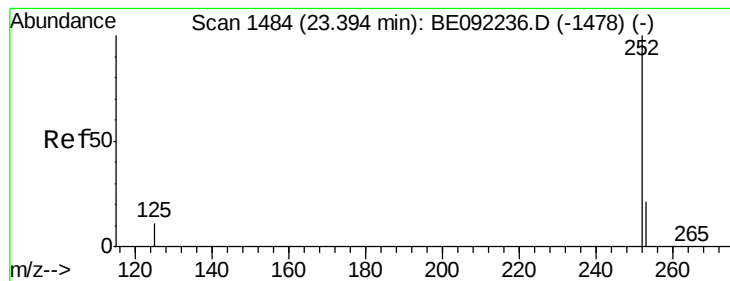


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#32

Benzo(b)fluoranthene

Concen: 3.39 ng

RT: 23.39 min Scan# 1484

Delta R.T. 0.00 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

Instrument :

BNA_E

ClientSampleId :

9550

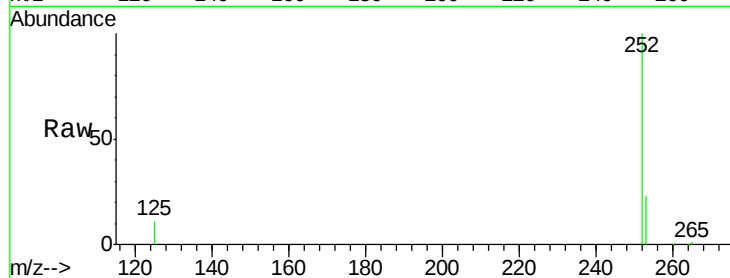
Tgt Ion:252 Resp: 72859

Ion Ratio Lower Upper

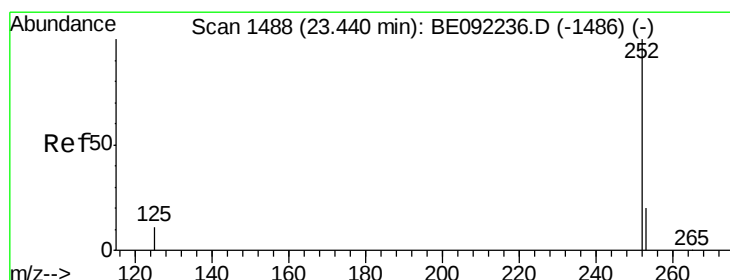
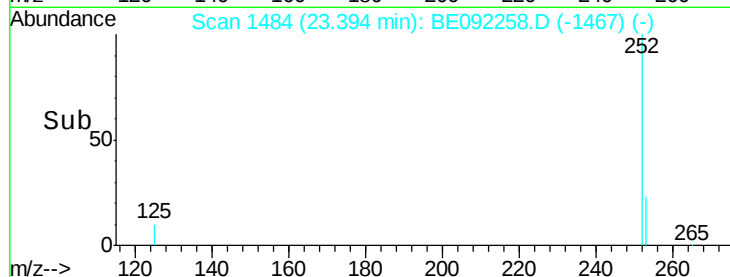
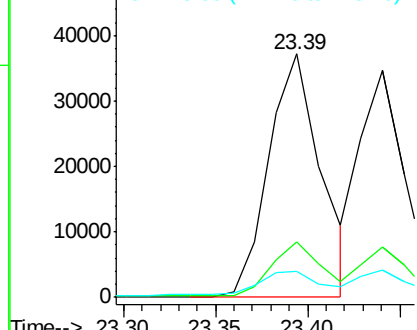
252 100

253 22.9 19.0 28.4

125 10.9 10.3 15.5



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



#33

Benzo(k)fluoranthene

Concen: 2.73 ng

RT: 23.44 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

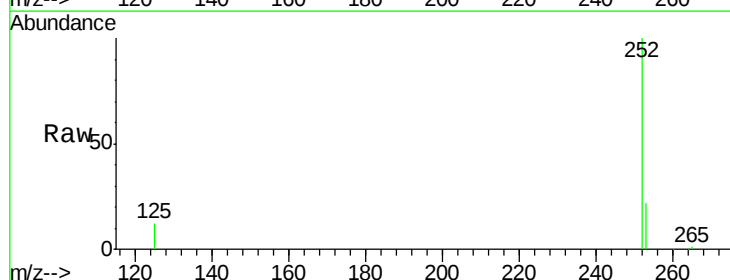
Tgt Ion:252 Resp: 59091

Ion Ratio Lower Upper

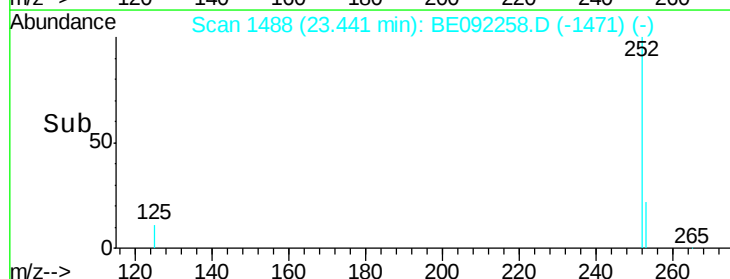
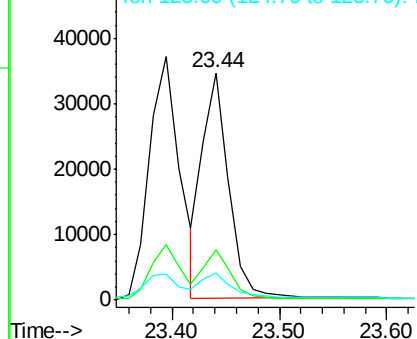
252 100

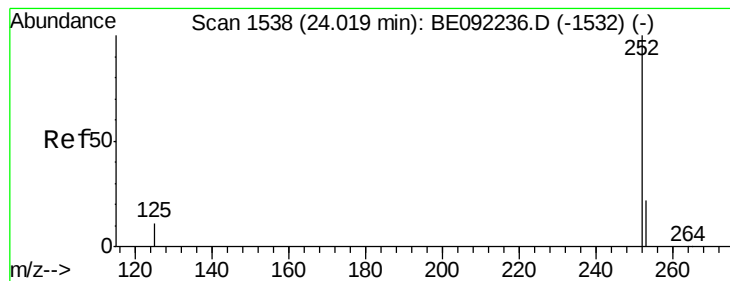
253 22.4 19.0 28.6

125 12.0 10.6 15.8



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





#34

Benzo(a)pyrene

Concen: 4.53 ng

RT: 24.02 min Scan# 1538

Delta R.T. 0.00 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

Instrument :

BNA_E

ClientSampleId :

9550

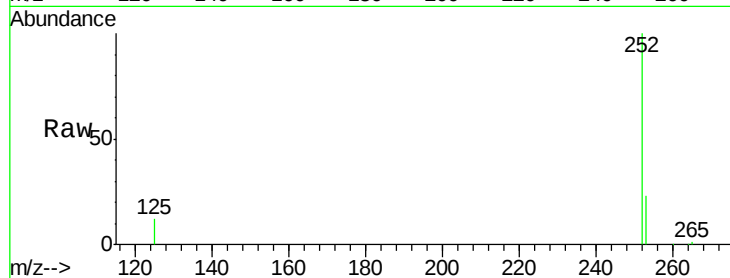
Tgt Ion:252 Resp: 91675

Ion Ratio Lower Upper

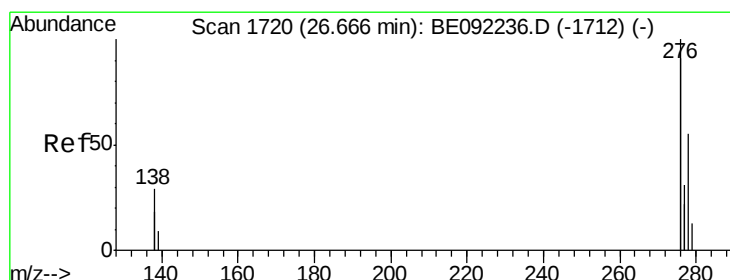
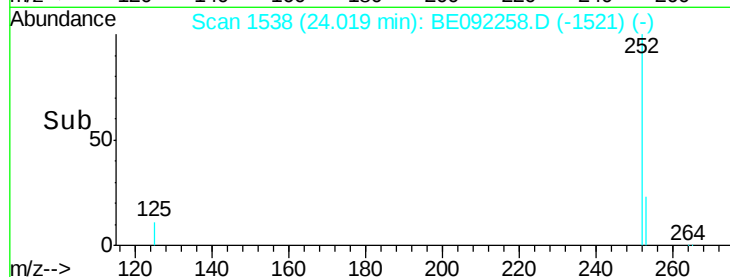
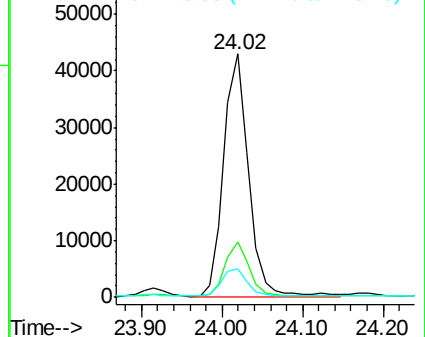
252 100

253 23.0 20.3 30.5

125 11.7 11.8 17.6#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#35

Dibenzo(a,h)anthracene

Concen: 1.86 ng

RT: 26.65 min Scan# 1719

Delta R.T. -0.02 min

Lab File: BE092258.D

Acq: 10 Aug 2016 17:10

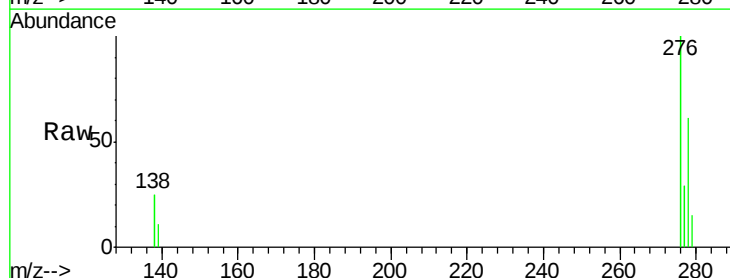
Tgt Ion:278 Resp: 34985

Ion Ratio Lower Upper

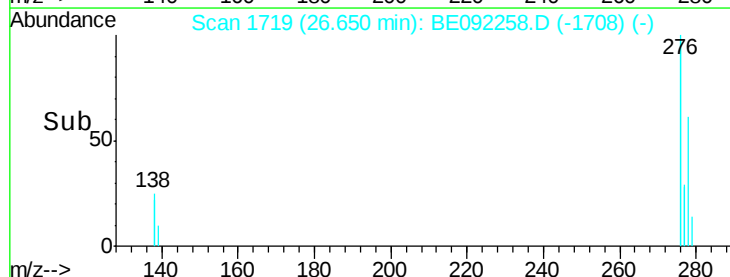
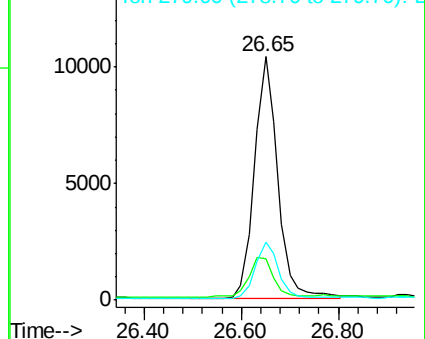
278 100

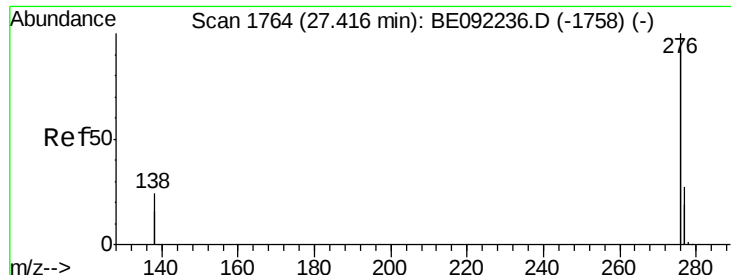
139 17.2 16.2 24.2

279 24.1 21.4 32.2



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





#36

Benzo(g,h,i)perylene

Concen: 8.92 ng

RT: 27.40 min Scan# 1763

Delta R.T. -0.02 min

Lab File: BE092258.D

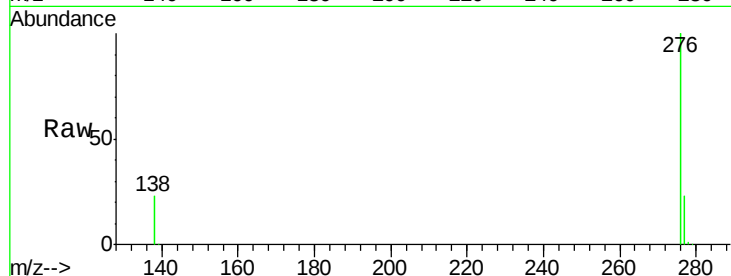
Acq: 10 Aug 2016 17:10

Instrument :

BNA_E

ClientSampleId :

9550



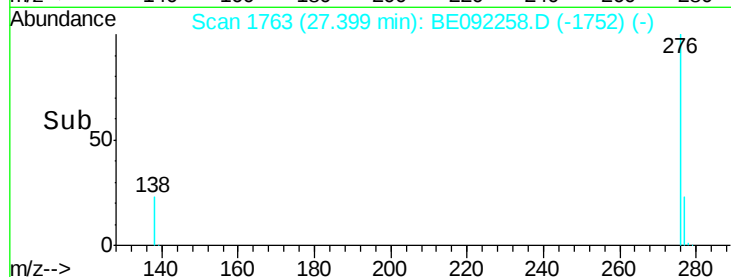
Tgt Ion: 276 Resp: 723048

Ion Ratio Lower Upper

276 100

277 23.1 21.4 32.2

138 23.1 19.4 29.2



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

