

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013117\
 Data File : BE092701.D
 Acq On : 31 Jan 2017 23:58
 Operator : SJ/MA
 Sample : I1505-03 10X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SB-01B

Quant Time: Feb 01 02:24:28 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE011617.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 17 10:14:01 2017
 Response via : Initial Calibration

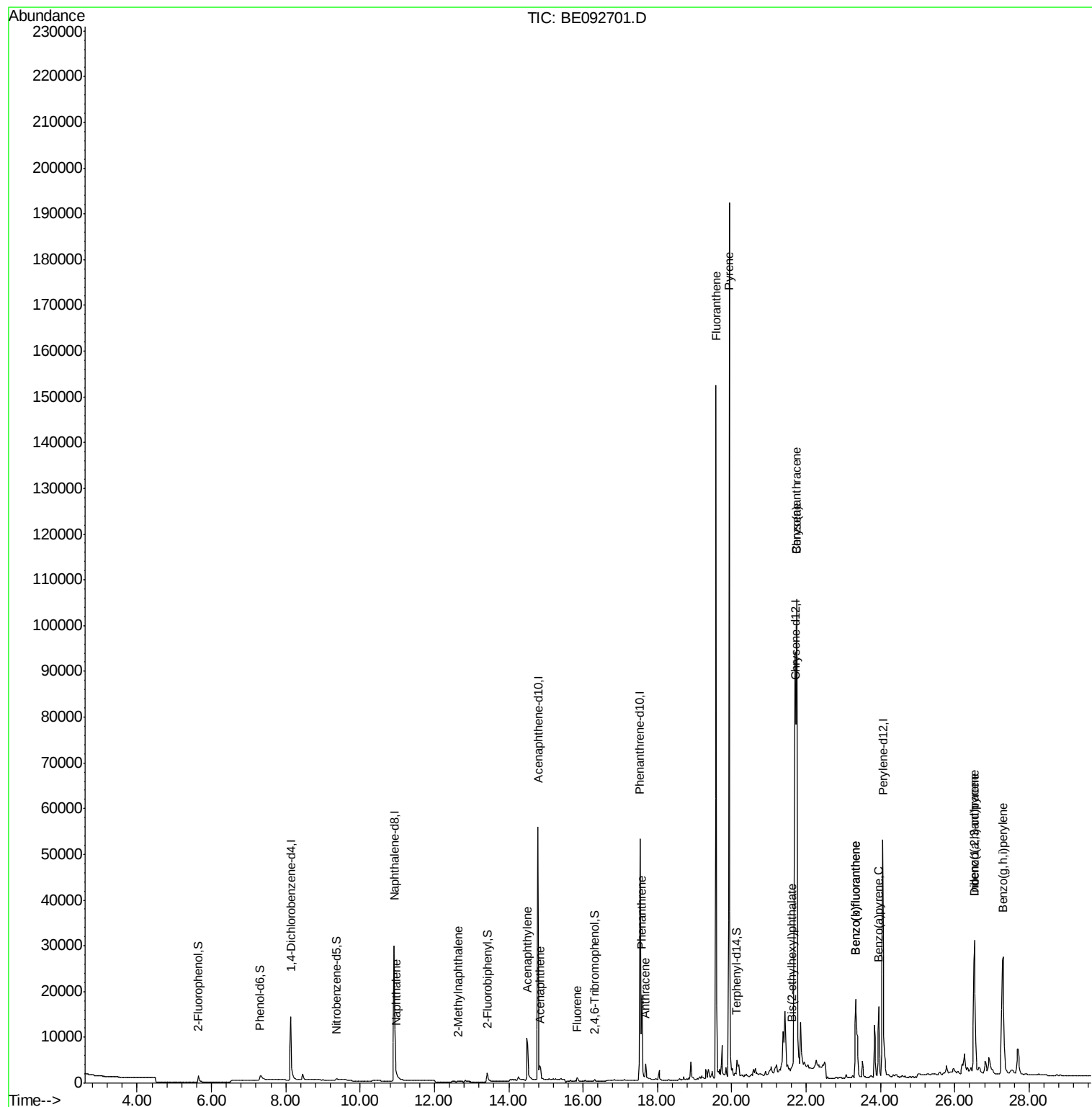
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	10878	5.00	ng	0.00
7) Naphthalene-d8	10.91	136	53944	5.00	ng	0.00
12) Acenaphthene-d10	14.78	164	35977	5.00	ng	0.00
18) Phenanthrene-d10	17.53	188	76467	5.00	ng	0.00
24) Chrysene-d12	21.72	240	69464	5.00	ng	0.00
31) Perylene-d12	24.07	264	80427	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	2239	0.92	ng	0.00
5) Phenol-d6	7.31	99	2825	0.95	ng	-0.02
8) Nitrobenzene-d5	9.36	82	1085	0.31	ng	0.02
13) 2,4,6-Tribromophenol	16.31	330	643	0.73	ng	0.01
14) 2-Fluorobiphenyl	13.42	172	3661	0.41	ng	0.00
26) Terphenyl-d14	20.14	244	4804	0.49	ng	-0.02
Target Compounds						Qvalue
9) Naphthalene	10.97	128	781	0.07	ng	# 68
11) 2-Methylnaphthalene	12.64	142	203	0.03	ng	# 83
15) Acenaphthylene	14.49	152	21460	0.43	ng	99
16) Acenaphthene	14.85	154	814	0.10	ng	83
17) Fluorene	15.84	166	1065	0.11	ng	94
19) Hexachlorobenzene	16.66	284	116	Below Cal	#	1
21) Phenanthrene	17.58	178	23171	1.37	ng	94
22) Anthracene	17.67	178	5876	0.38	ng	97
23) Fluoranthene	19.58	202	191301	2.56	ng	100
25) Pyrene	19.93	202	216392	3.16	ng	94
27) Benzo(a)anthracene	21.75	228	219811	3.21	ng	# 88
28) Chrysene	21.75	228	219811	2.86	ng	# 69
29) Bis(2-ethylhexyl)phthalate	21.61	149	609	0.25	ng	# 50
30) Indeno(1,2,3-cd)pyrene	26.53	276	60735	0.73	ng	97
32) Benzo(b)fluoranthene	23.34	252	43881	2.26	ng	99
33) Benzo(k)fluoranthene	23.34	252	43881	2.25	ng	97
34) Benzo(a)pyrene	23.95	252	24473	1.34	ng	98
35) Dibenzo(a,h)anthracene	26.53	278	3870	0.22	ng	# 78
36) Benzo(g,h,i)perylene	27.30	276	66142	0.88	ng	96

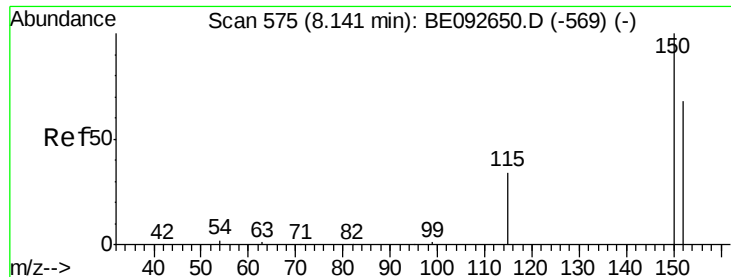
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. 0.00 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

Instrument :

BNA_E

ClientSampleId :

SB-01B

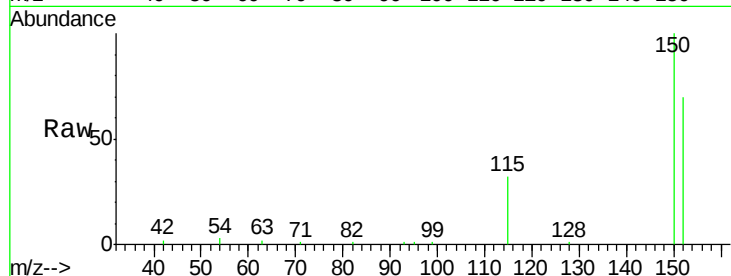
Tgt Ion:152 Resp: 10878

Ion Ratio Lower Upper

152 100

150 142.2 106.0 159.0

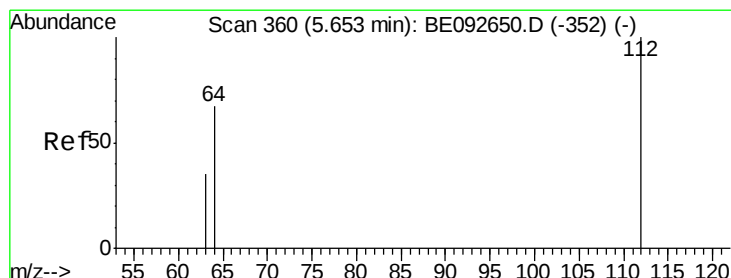
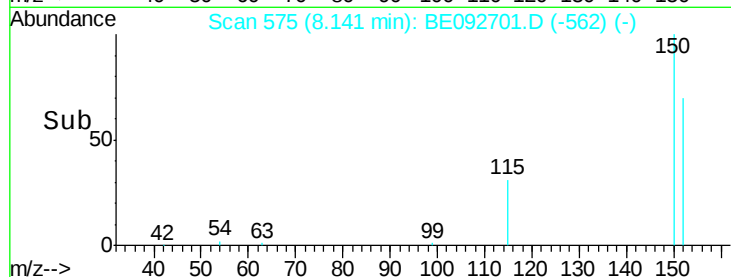
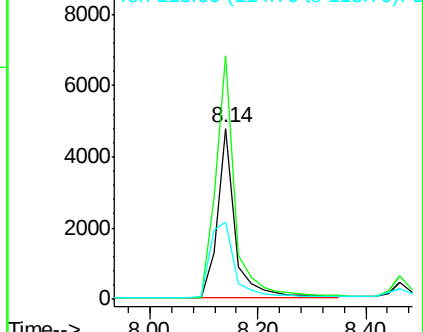
115 45.3 31.2 46.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol

Concen: 0.92 ng

RT: 5.65 min Scan# 359

Delta R.T. -0.01 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

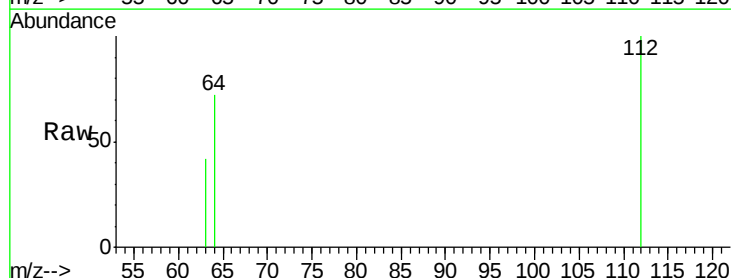
Tgt Ion:112 Resp: 2239

Ion Ratio Lower Upper

112 100

64 68.8 53.5 80.3

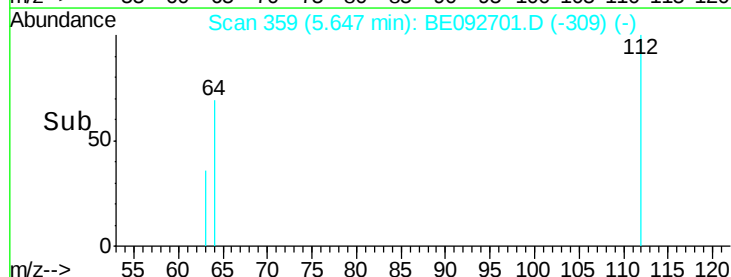
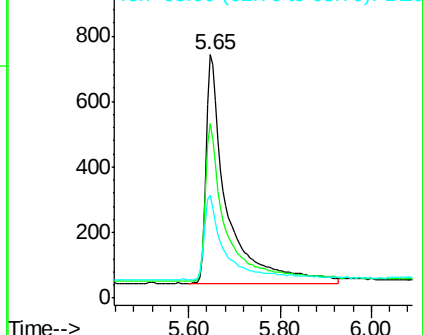
63 34.3 27.9 41.9

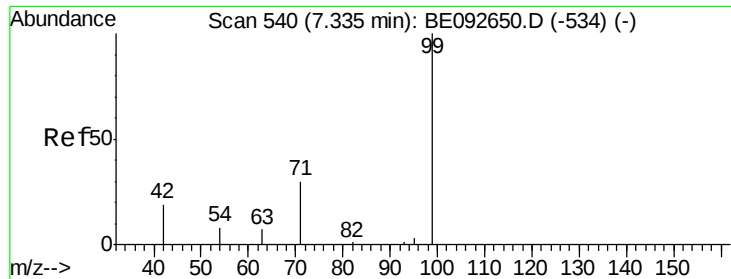


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.95 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.02 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

Instrument :

BNA_E

ClientSampleId :

SB-01B

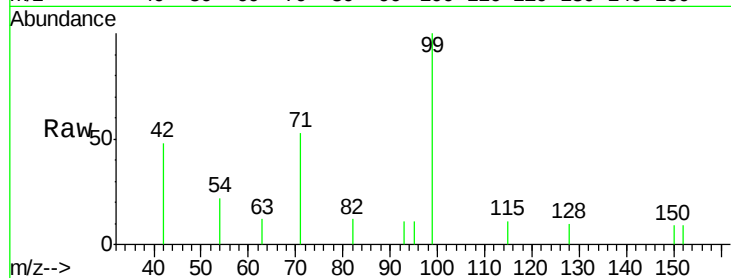
Tgt Ion: 99 Resp: 2825

Ion Ratio Lower Upper

99 100

42 25.5 16.0 24.0#

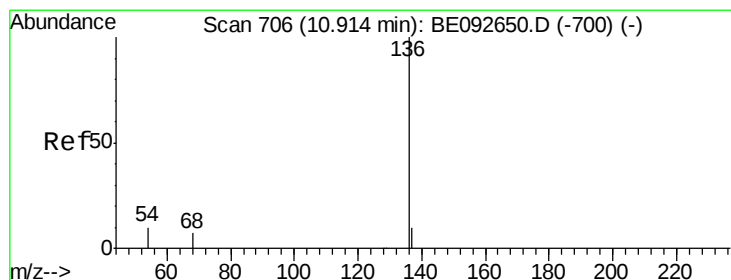
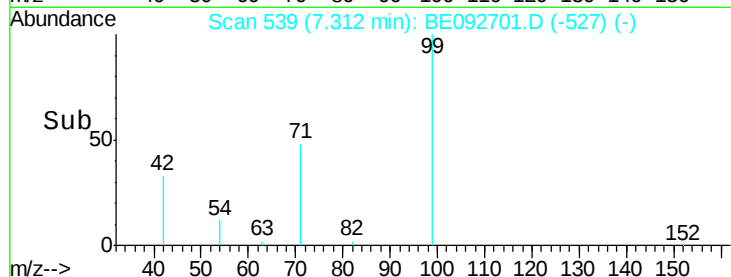
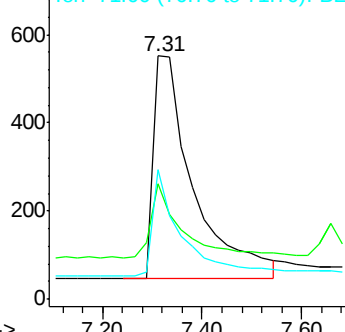
71 35.2 30.6 45.8



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: 10.91 min Scan# 706

Delta R.T. 0.00 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

Tgt Ion: 136 Resp: 53944

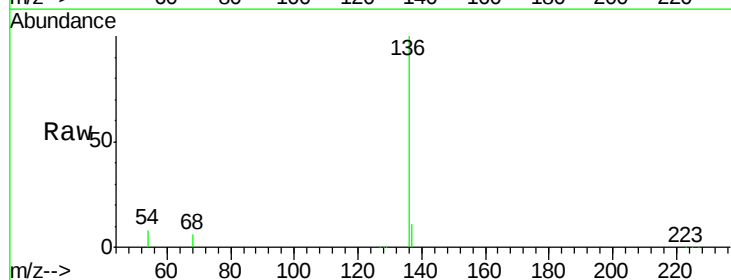
Ion Ratio Lower Upper

136 100

137 10.9 8.2 12.4

54 8.2 9.6 14.4#

68 6.0 6.7 10.1#

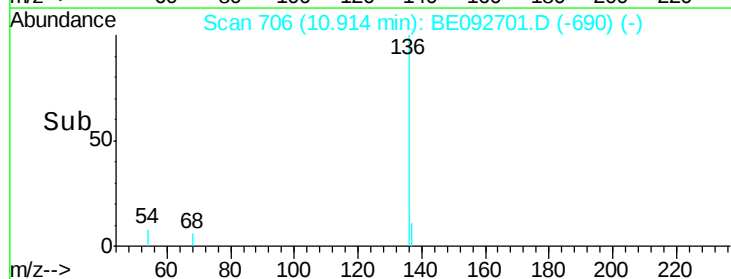
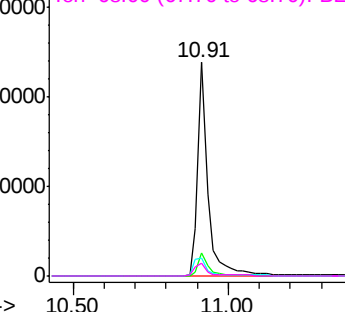


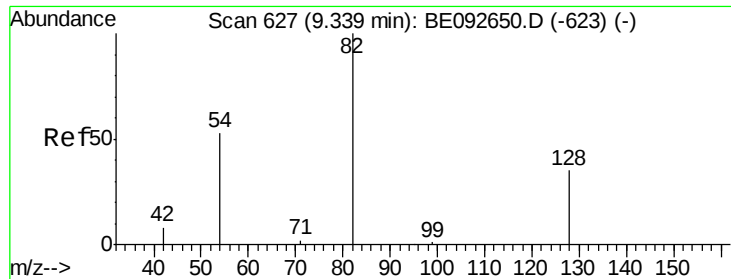
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 0.31 ng

RT: 9.36 min Scan# 628

Delta R.T. 0.02 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

Instrument :

BNA_E

ClientSampleID :

SB-01B

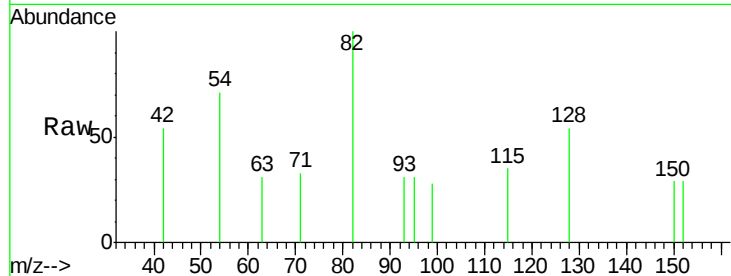
Tgt Ion: 82 Resp: 1085

Ion Ratio Lower Upper

82 100

128 53.6 39.0 58.4

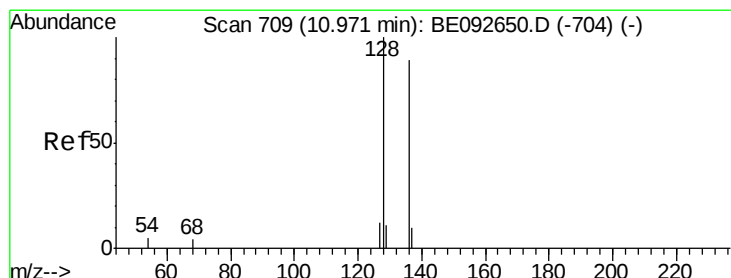
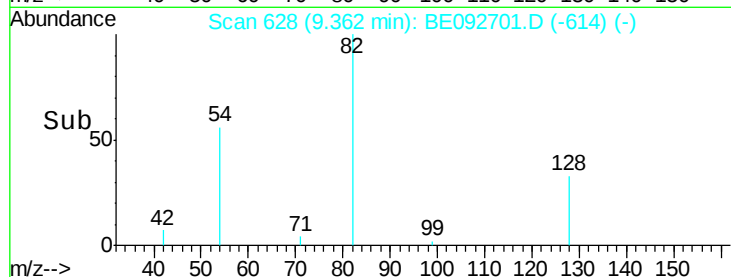
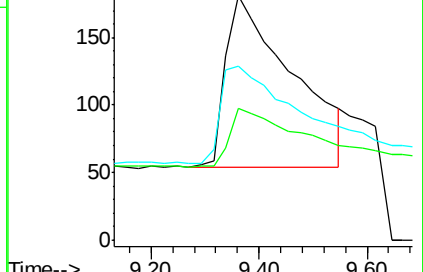
54 71.3 44.8 67.2#



Abundance Ion 82.00 (81.70 to 82.70): BE092701.D (-614) (-)

Ion 128.00 (127.70 to 128.70): BE092701.D (-614) (-)

Ion 54.00 (53.70 to 54.70): BE092701.D (-614) (-)



#9

Naphthalene

Concen: 0.07 ng

RT: 10.97 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

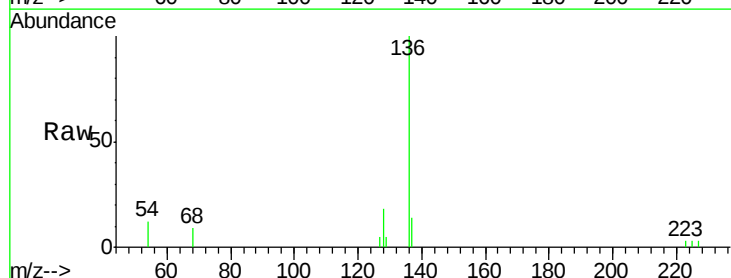
Tgt Ion: 128 Resp: 781

Ion Ratio Lower Upper

128 100

129 28.2 11.2 16.8#

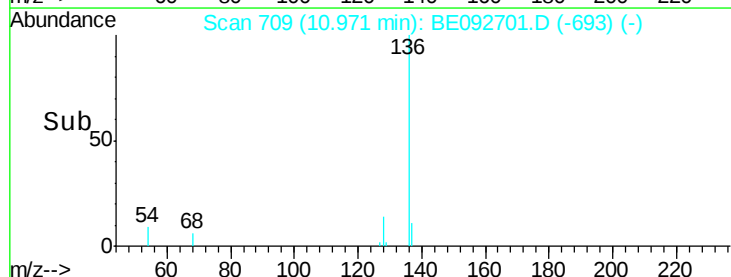
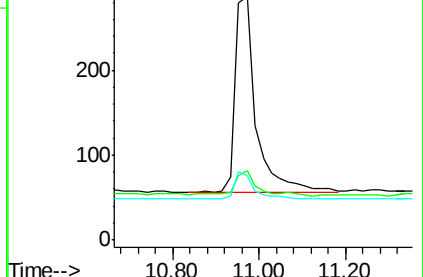
127 26.5 11.6 17.4#

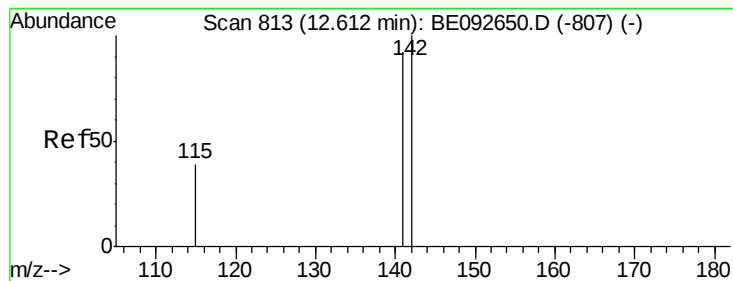


Abundance Ion 128.00 (127.70 to 128.70): BE092701.D (-693) (-)

Ion 129.00 (128.70 to 129.70): BE092701.D (-693) (-)

Ion 127.00 (126.70 to 127.70): BE092701.D (-693) (-)





#11

2-Methylnaphthalene

Concen: 0.03 ng

RT: 12.64 min Scan# 815

Delta R.T. 0.02 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

Instrument :

BNA_E

ClientSampled :

SB-01B

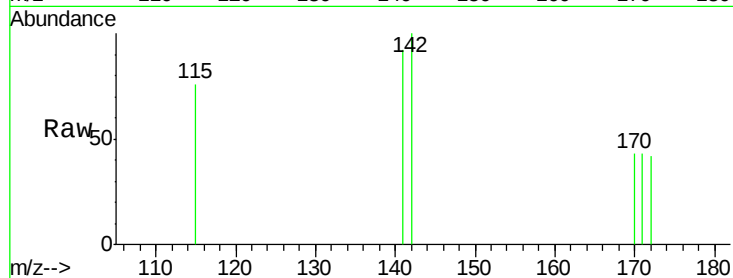
Tgt Ion:142 Resp: 203

Ion Ratio Lower Upper

142 100

141 92.5 73.7 110.5

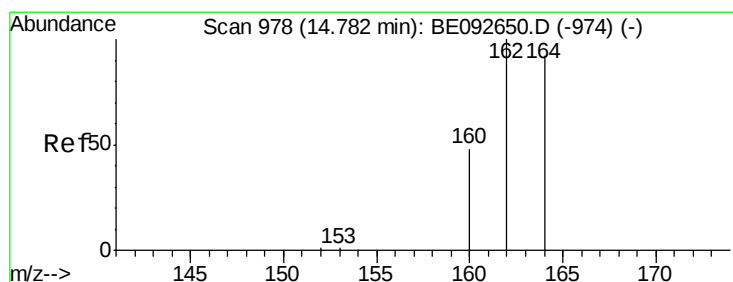
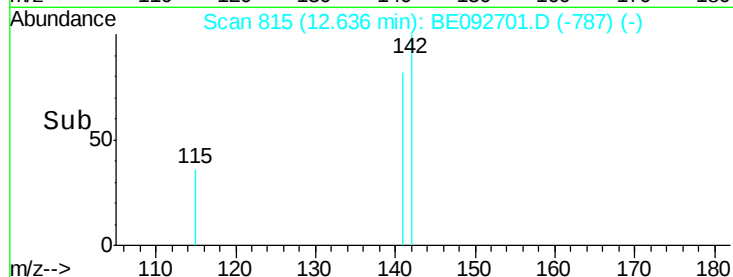
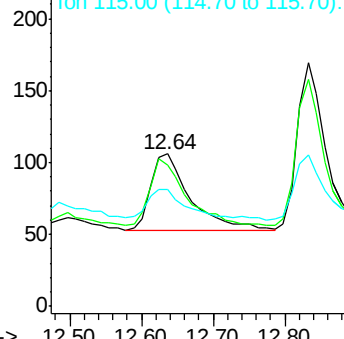
115 76.4 34.0 51.0#



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



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.78 min Scan# 978

Delta R.T. 0.00 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

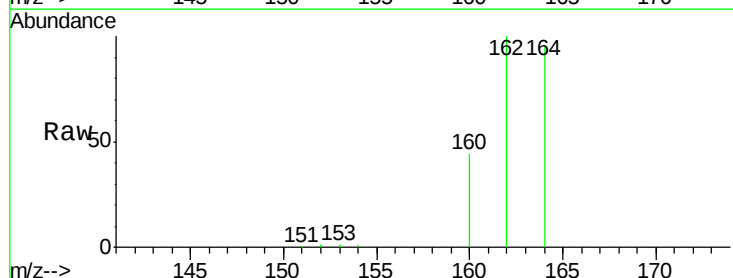
Tgt Ion:164 Resp: 35977

Ion Ratio Lower Upper

164 100

162 103.8 71.4 107.0

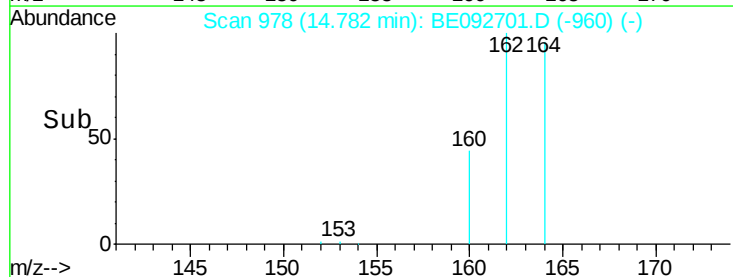
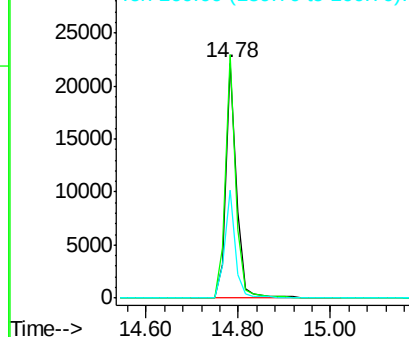
160 45.8 27.4 41.2#

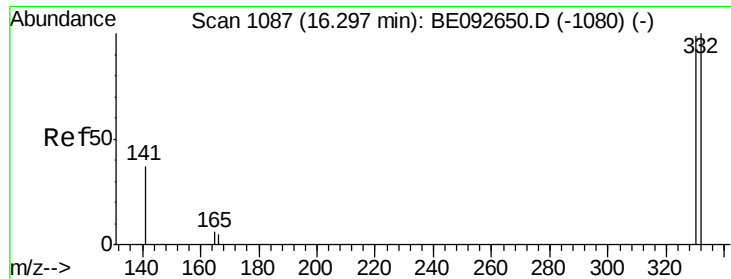


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

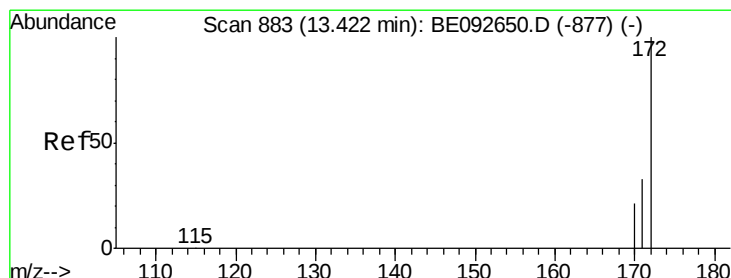
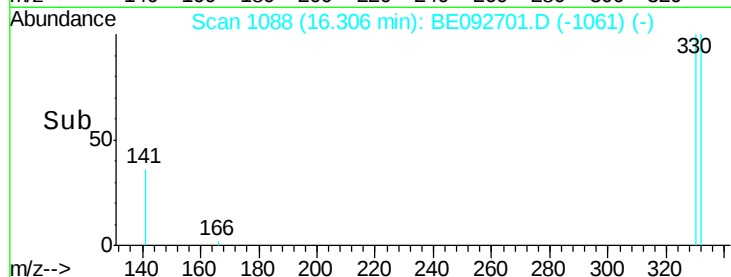
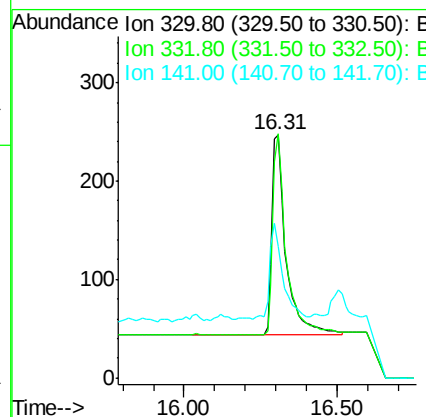
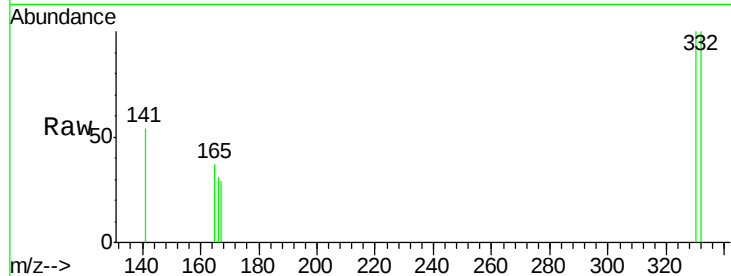




#13
 2,4,6-Tribromophenol
 Concen: 0.73 ng
 RT: 16.31 min Scan# 1088
 Delta R.T. 0.01 min
 Lab File: BE092701.D
 Acq: 31 Jan 2017 23:58

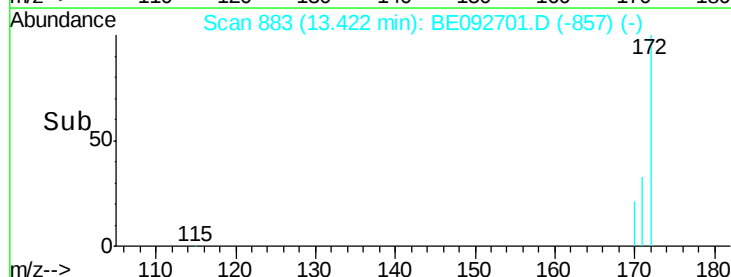
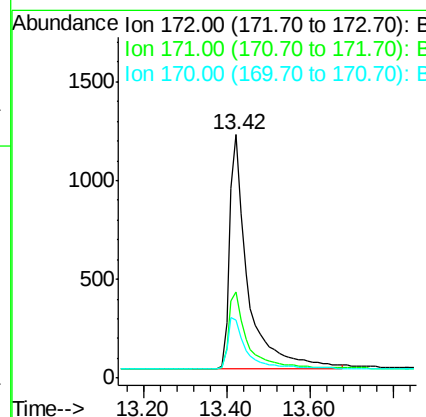
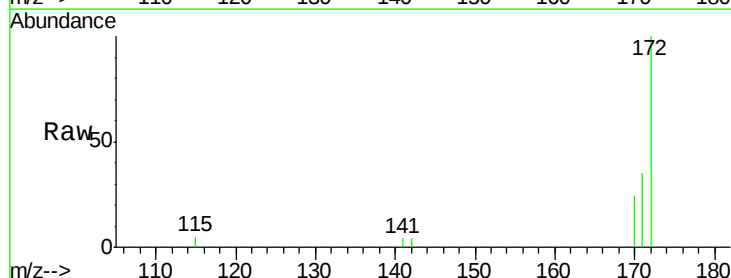
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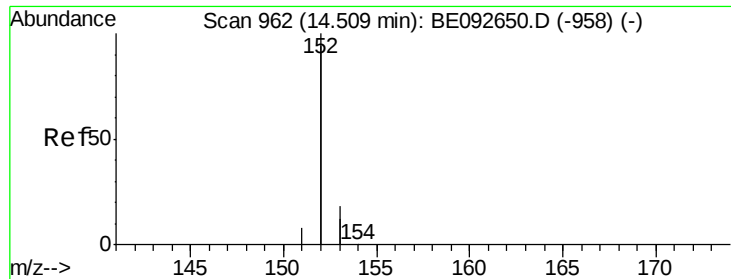
Tgt Ion: 330 Resp: 643
 Ion Ratio Lower Upper
 330 100
 332 97.8 75.4 113.0
 141 44.3 31.0 46.6



#14
 2-Fluorobiphenyl
 Concen: 0.41 ng
 RT: 13.42 min Scan# 883
 Delta R.T. 0.00 min
 Lab File: BE092701.D
 Acq: 31 Jan 2017 23:58

Tgt Ion: 172 Resp: 3661
 Ion Ratio Lower Upper
 172 100
 171 35.4 30.1 45.1
 170 24.0 21.8 32.6

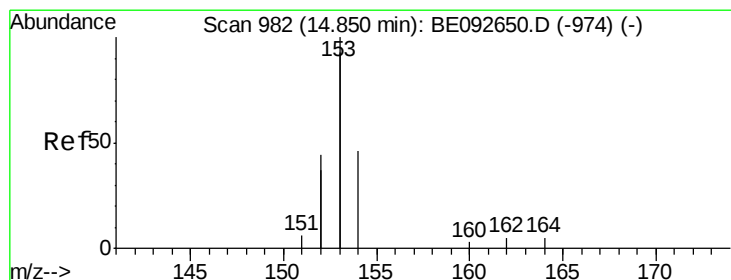
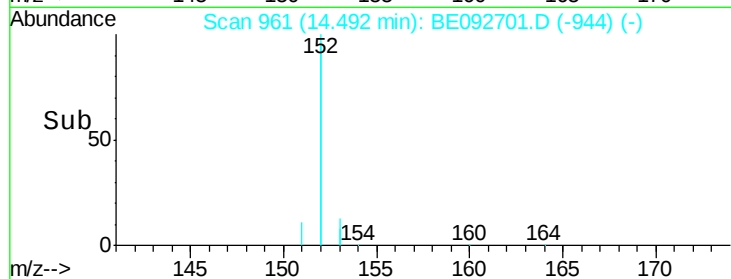
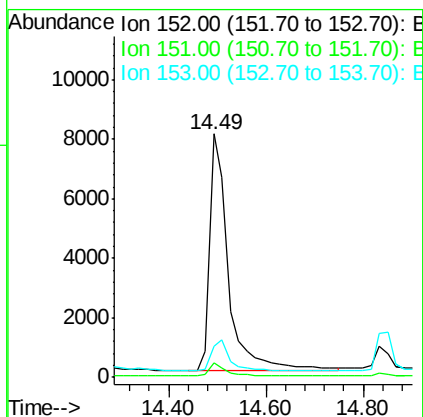
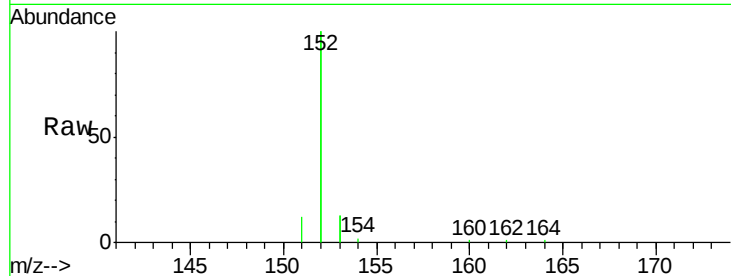




#15
Acenaphthylene
Concen: 0.43 ng
RT: 14.49 min Scan# 961
Delta R.T. -0.02 min
Lab File: BE092701.D
Acq: 31 Jan 2017 23:58

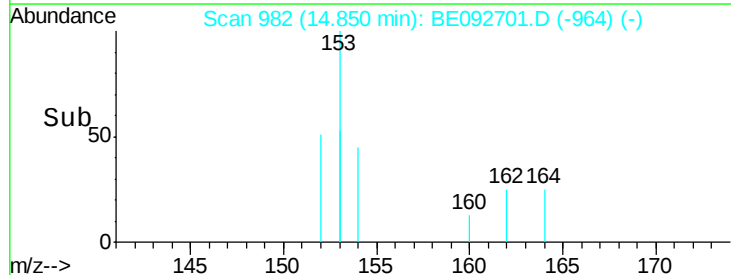
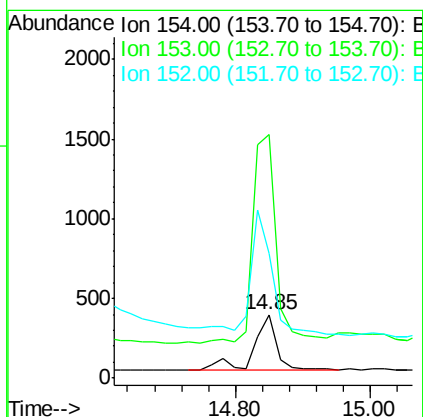
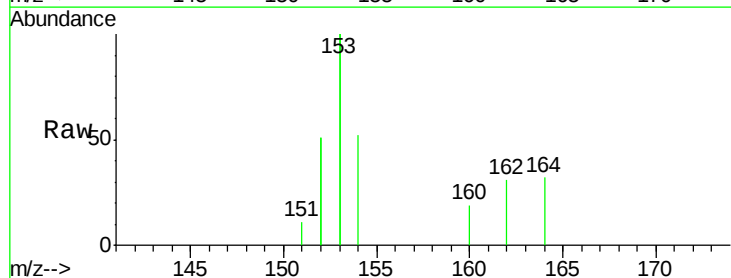
Instrument :
BNA_E
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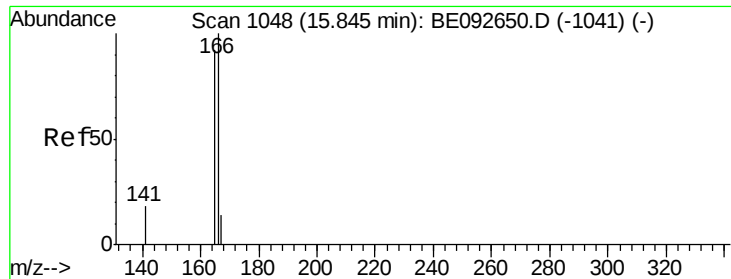
Tgt Ion:152 Resp: 21460
Ion Ratio Lower Upper
152 100
151 4.9 3.9 5.9
153 12.6 10.4 15.6



#16
Acenaphthene
Concen: 0.10 ng
RT: 14.85 min Scan# 982
Delta R.T. 0.00 min
Lab File: BE092701.D
Acq: 31 Jan 2017 23:58

Tgt Ion:154 Resp: 814
Ion Ratio Lower Upper
154 100
153 381.9 350.8 526.2
152 202.9 171.1 256.7





#17

Fluorene

Concen: 0.11 ng

RT: 15.84 min Scan# 1048

Delta R.T. -0.00 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

Instrument :

BNA_E

ClientSampleId :

SB-01B

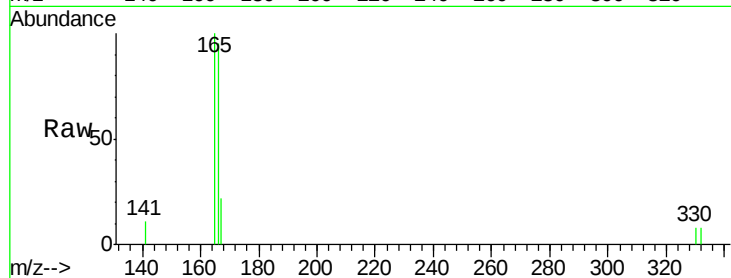
Tgt Ion:166 Resp: 1065

Ion Ratio Lower Upper

166 100

165 105.1 78.2 117.4

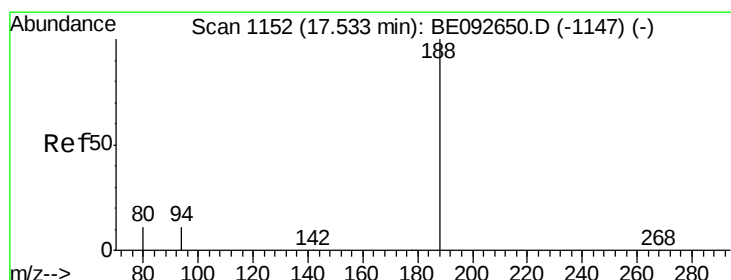
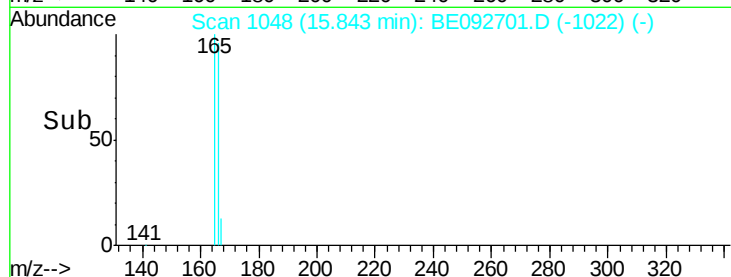
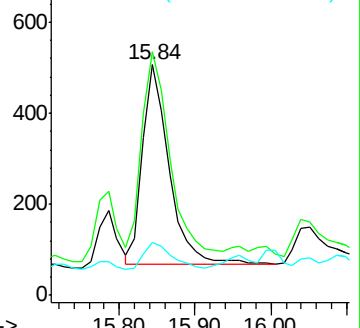
167 13.8 11.0 16.4



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: 17.53 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

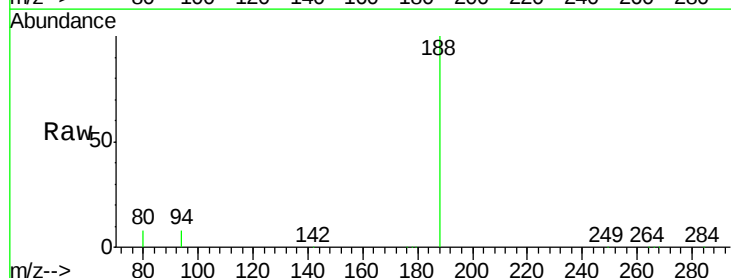
Tgt Ion:188 Resp: 76467

Ion Ratio Lower Upper

188 100

94 8.3 3.2 4.8#

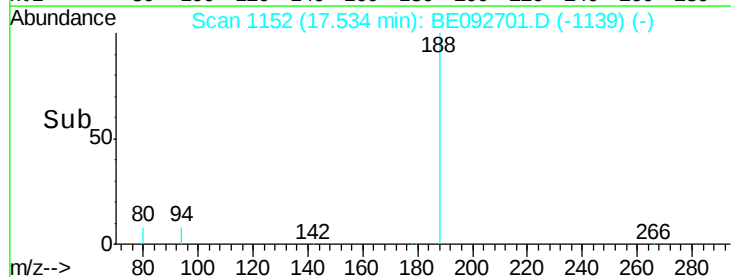
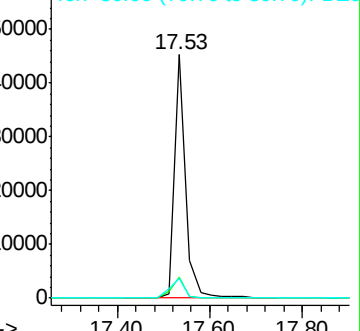
80 7.9 2.6 3.8#

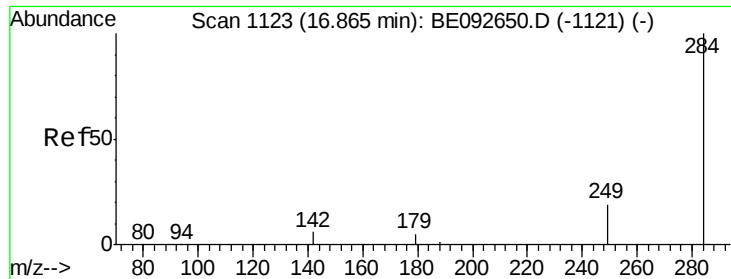


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

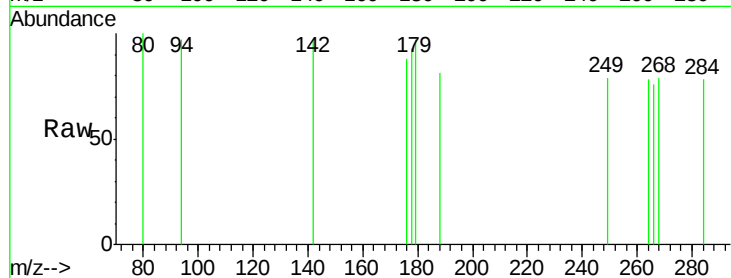




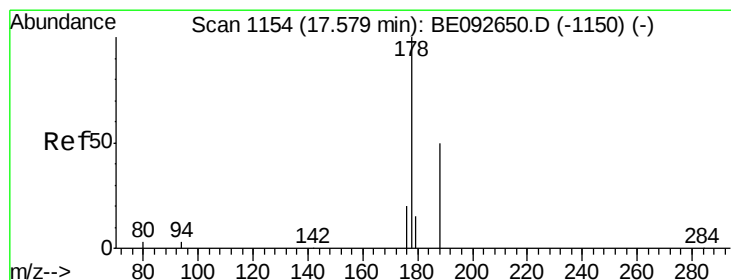
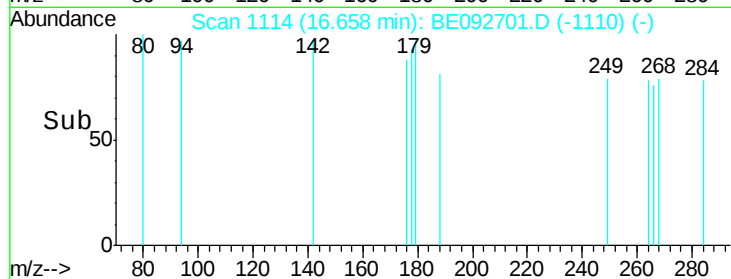
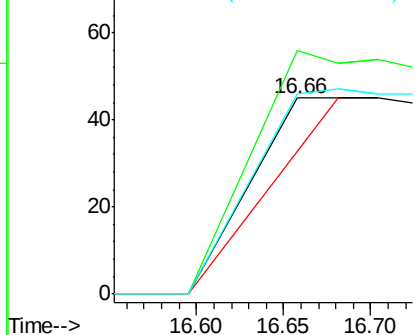
#19
Hexachlorobenzene
Concen: Below Cal
RT: 16.66 min Scan# 1114
Delta R.T. -0.21 min
Lab File: BE092701.D
Acq: 31 Jan 2017 23:58

Instrument :
BNA_E
ClientSampleId :
SB-01B

Tgt Ion: 284 Resp: 116
Ion Ratio Lower Upper
284 100
142 368.1 29.1 43.7#
249 0.0 27.9 41.9#

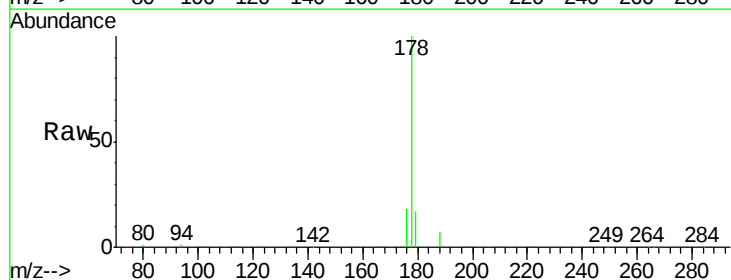


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

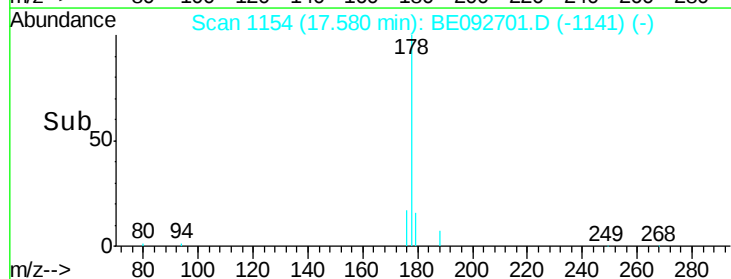
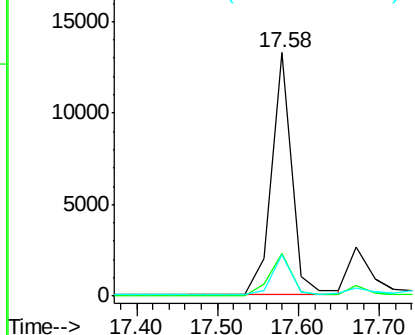


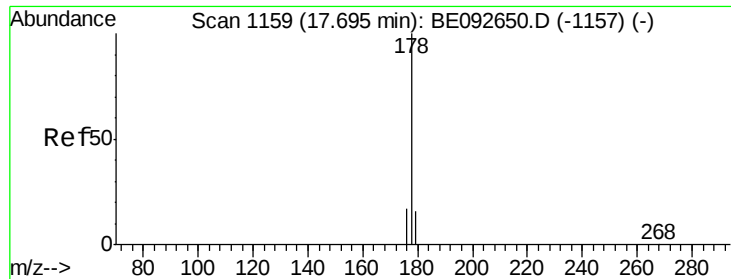
#21
Phenanthrene
Concen: 1.37 ng
RT: 17.58 min Scan# 1154
Delta R.T. 0.00 min
Lab File: BE092701.D
Acq: 31 Jan 2017 23:58

Tgt Ion: 178 Resp: 23171
Ion Ratio Lower Upper
178 100
176 18.4 15.8 23.8
179 16.1 16.0 24.0



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





#22

Anthracene

Concen: 0.38 ng

RT: 17.67 min Scan# 1158

Delta R.T. -0.02 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

Instrument :

BNA_E

ClientSampleId :

SB-01B

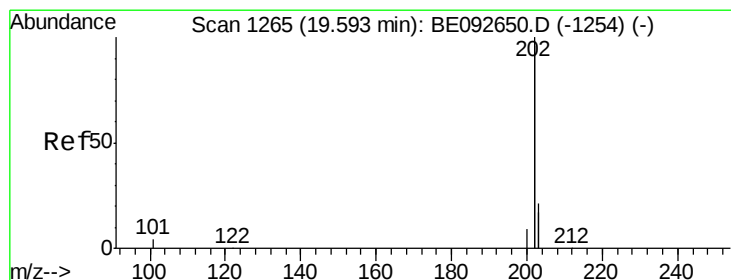
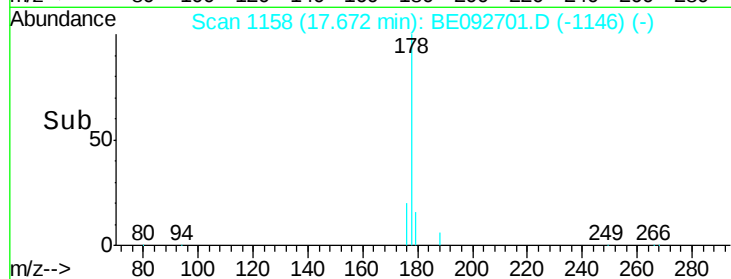
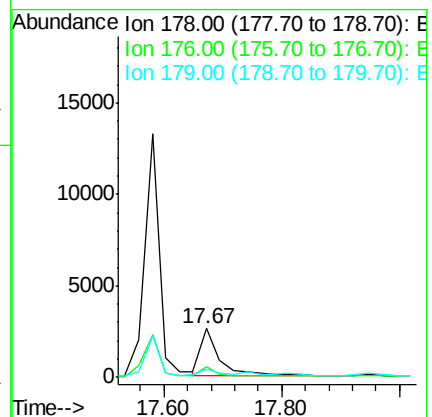
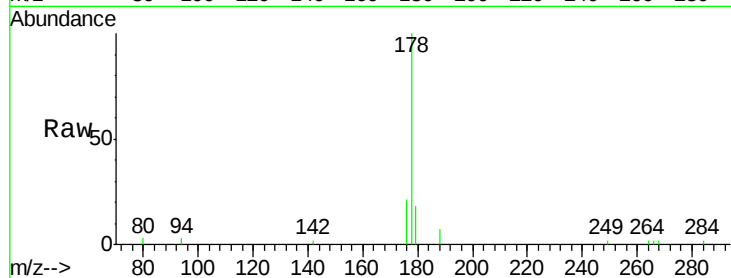
Tgt Ion:178 Resp: 5876

Ion Ratio Lower Upper

178 100

176 19.6 15.0 22.4

179 13.2 12.2 18.2



#23

Fluoranthene

Concen: 2.56 ng

RT: 19.58 min Scan# 1264

Delta R.T. -0.02 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

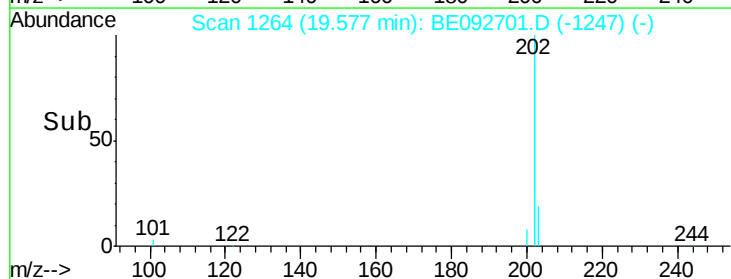
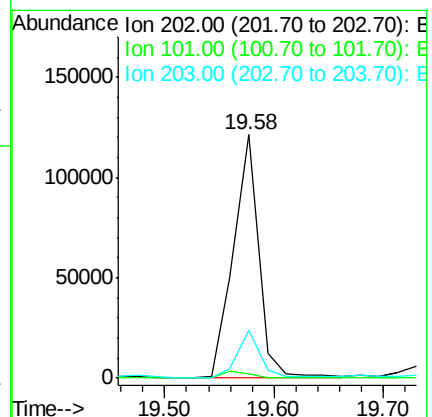
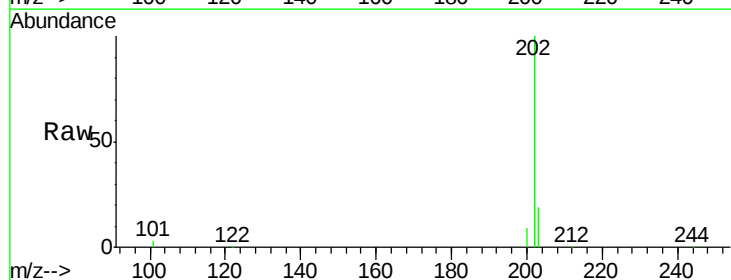
Tgt Ion:202 Resp: 191301

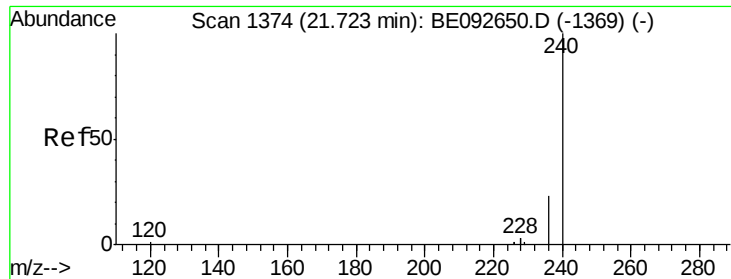
Ion Ratio Lower Upper

202 100

101 2.8 2.2 3.4

203 16.9 13.7 20.5





#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.72 min Scan# 1374

Delta R.T. -0.00 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

Instrument :

BNA_E

ClientSampleId :

SB-01B

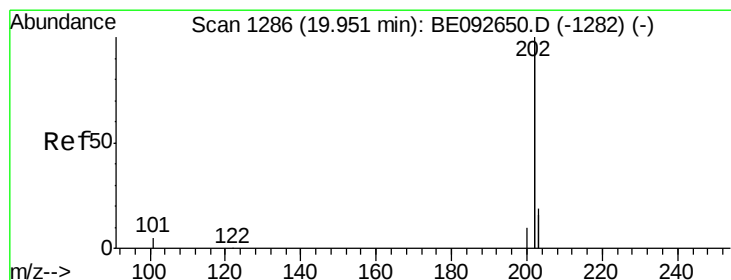
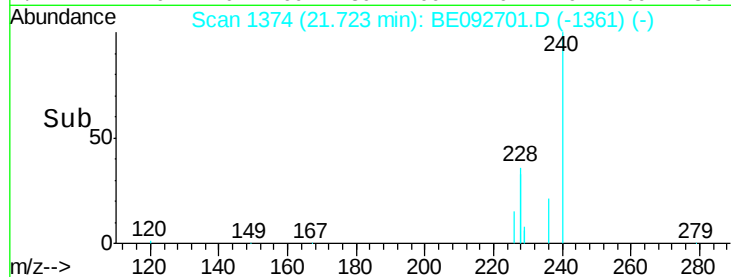
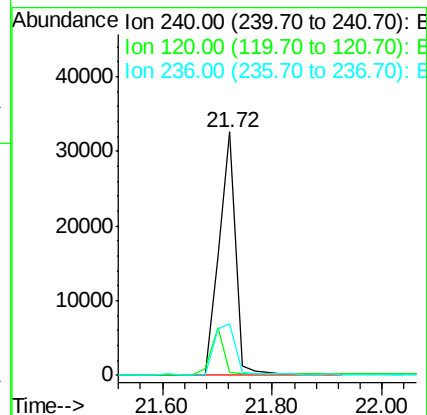
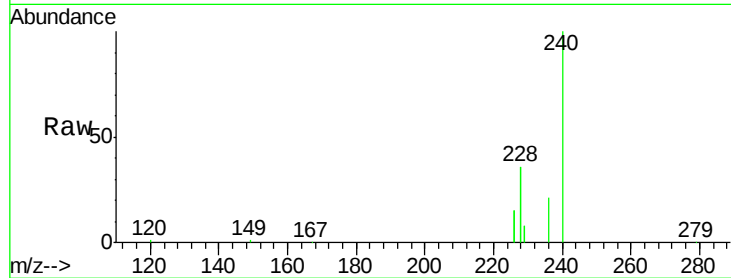
Tgt Ion:240 Resp: 69464

Ion Ratio Lower Upper

240 100

120 1.0 2.6 4.0#

236 21.3 24.6 37.0#



#25

Pyrene

Concen: 3.16 ng

RT: 19.93 min Scan# 1285

Delta R.T. -0.02 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

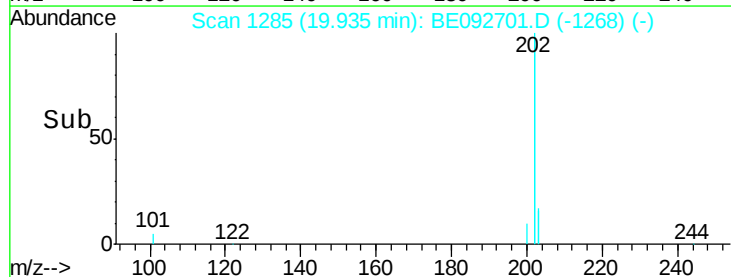
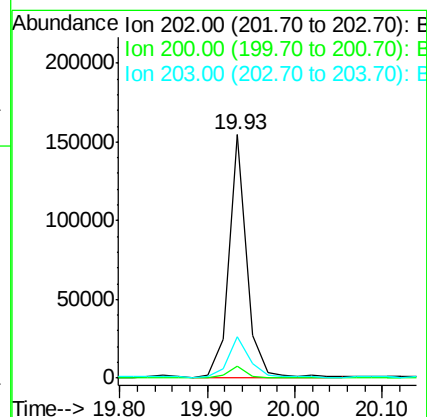
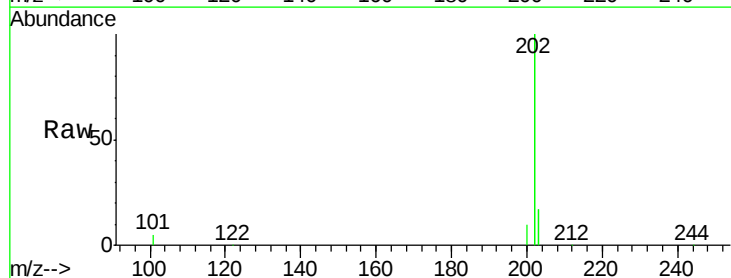
Tgt Ion:202 Resp: 216392

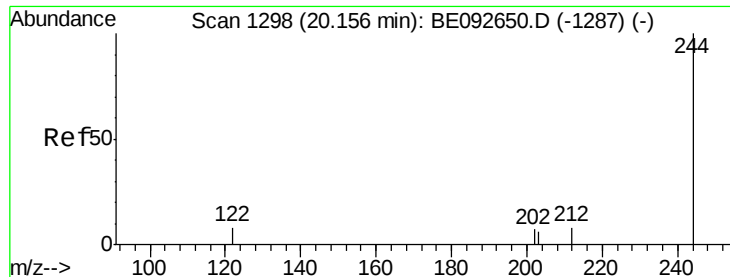
Ion Ratio Lower Upper

202 100

200 5.2 4.2 6.4

203 20.7 13.9 20.9

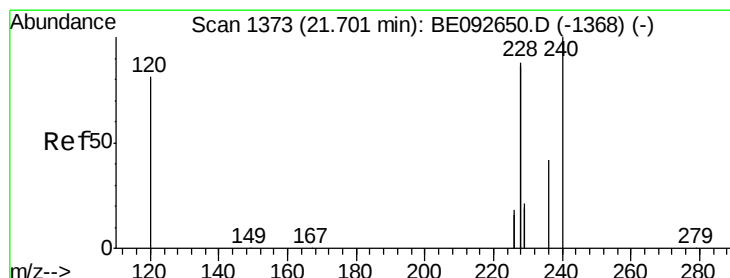
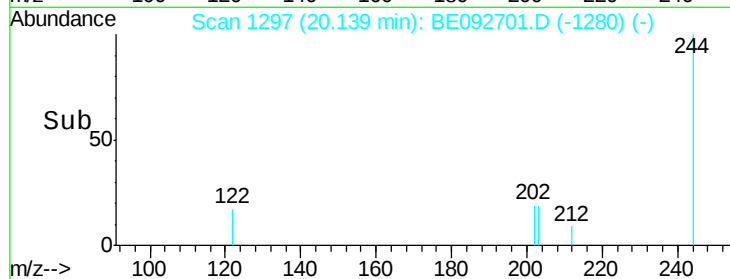
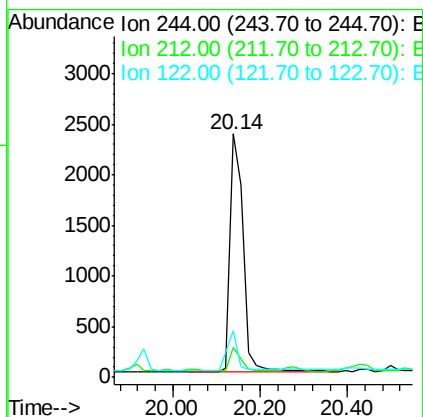
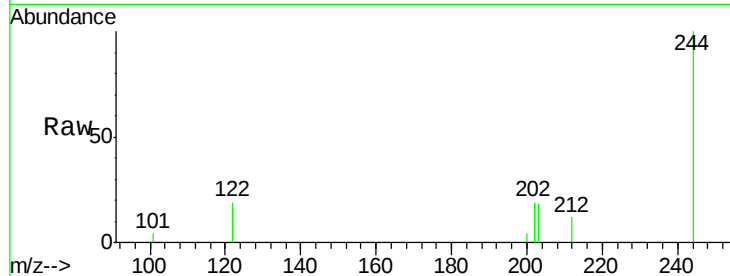




#26
 Terphenyl-d14
 Concen: 0.49 ng
 RT: 20.14 min Scan# 1297
 Delta R.T. -0.02 min
 Lab File: BE092701.D
 Acq: 31 Jan 2017 23:58

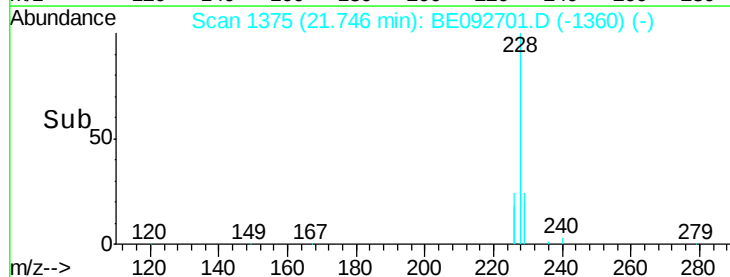
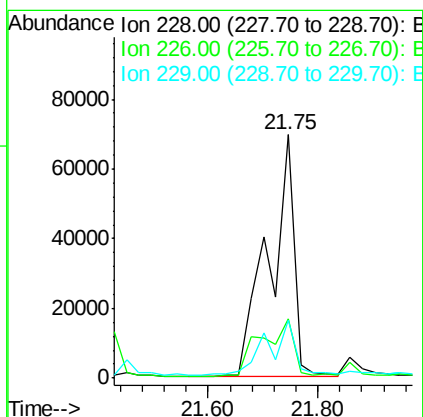
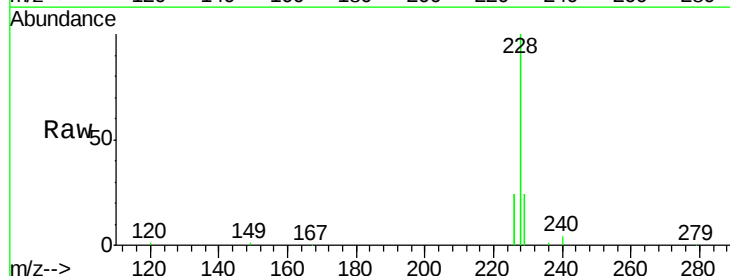
Instrument :
 BNA_E
 ClientSampleId :
 SB-01B

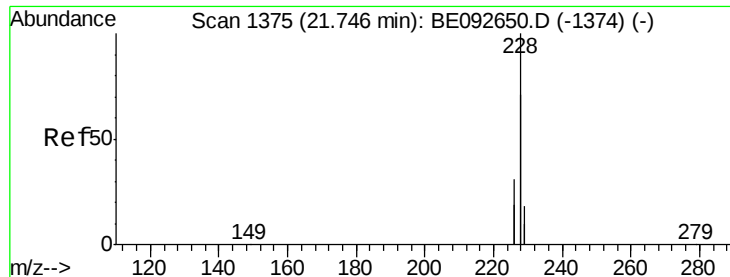
Tgt Ion: 244 Resp: 4804
 Ion Ratio Lower Upper
 244 100
 212 12.1 6.7 10.1#
 122 19.2 3.6 5.4#



#27
 Benzo(a)anthracene
 Concen: 3.21 ng
 RT: 21.75 min Scan# 1375
 Delta R.T. 0.05 min
 Lab File: BE092701.D
 Acq: 31 Jan 2017 23:58

Tgt Ion: 228 Resp: 219811
 Ion Ratio Lower Upper
 228 100
 226 24.2 23.6 35.4
 229 23.9 13.3 19.9#





#28

Chrysene

Concen: 2.86 ng

RT: 21.75 min Scan# 1375

Delta R.T. -0.00 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

Instrument :

BNA_E

ClientSampleId :

SB-01B

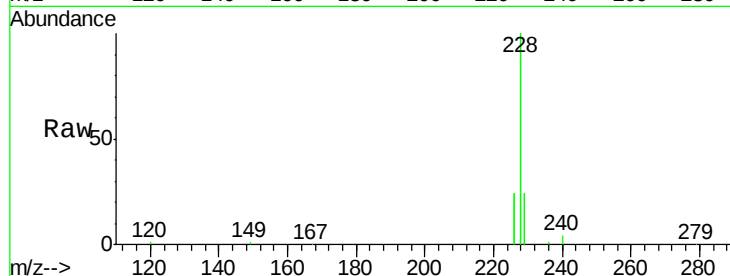
Tgt Ion:228 Resp: 219811

Ion Ratio Lower Upper

228 100

226 24.2 36.3 54.5#

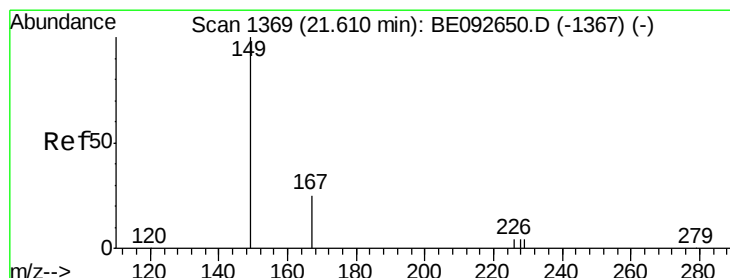
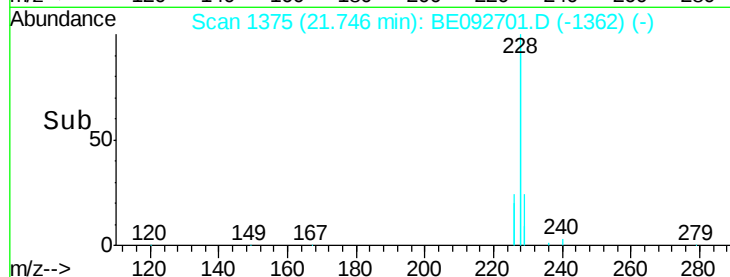
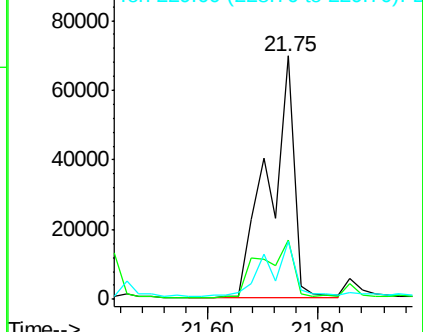
229 23.9 10.6 16.0#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#29

Bis(2-ethylhexyl)phthalate

Concen: 0.25 ng

RT: 21.61 min Scan# 1369

Delta R.T. -0.00 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

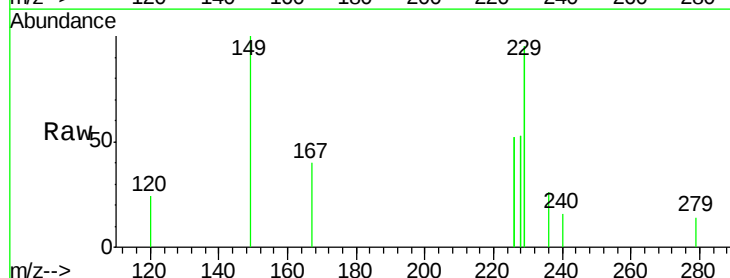
Tgt Ion:149 Resp: 609

Ion Ratio Lower Upper

149 100

167 46.1 16.0 24.0#

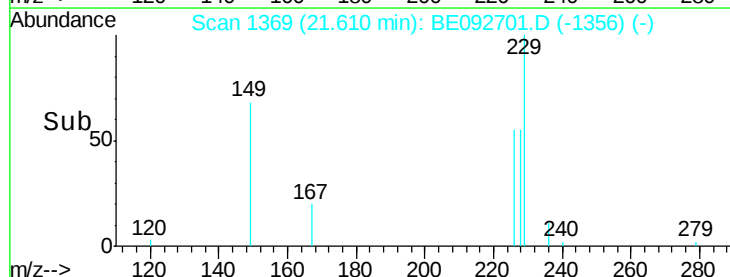
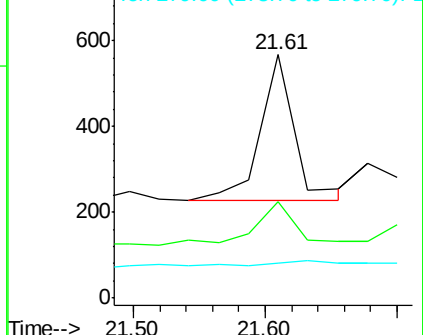
279 0.0 16.0 24.0#

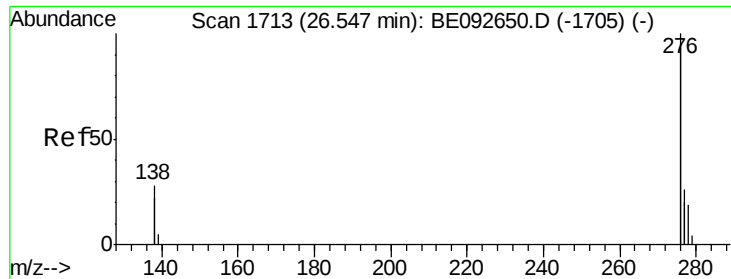


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.73 ng

RT: 26.53 min Scan# 1712

Delta R.T. -0.02 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

Instrument :

BNA_E

ClientSampleId :

SB-01B

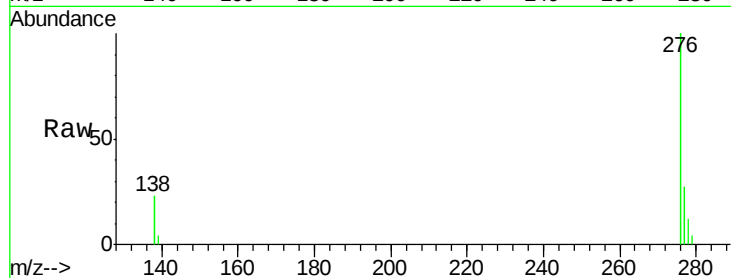
Tgt Ion:276 Resp: 60735

Ion Ratio Lower Upper

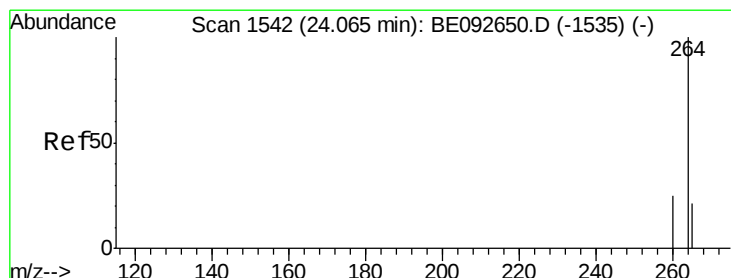
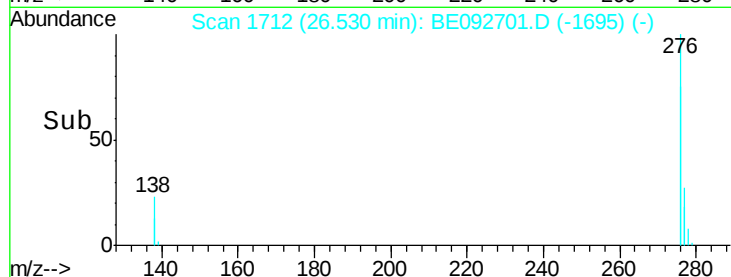
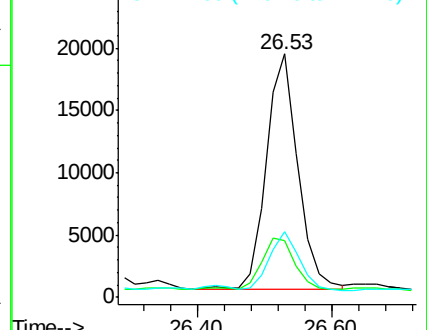
276 100

138 23.0 20.3 30.5

277 23.5 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: 24.07 min Scan# 1542

Delta R.T. 0.00 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

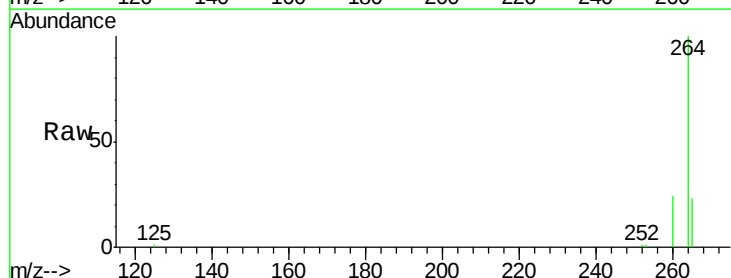
Tgt Ion:264 Resp: 80427

Ion Ratio Lower Upper

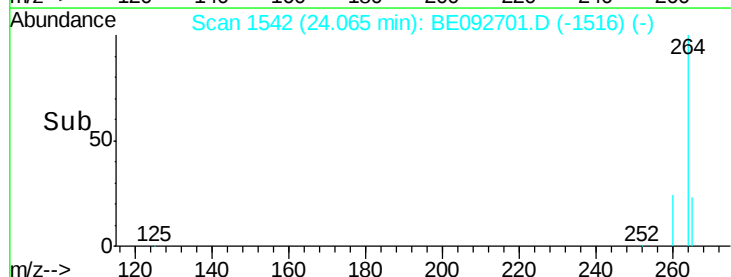
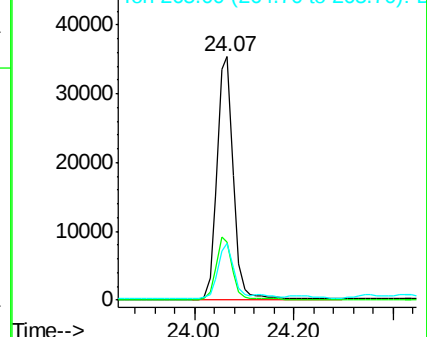
264 100

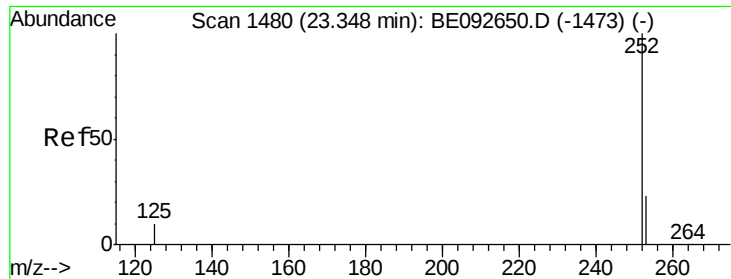
260 24.0 20.1 30.1

265 23.2 17.9 26.9



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: 2.26 ng

RT: 23.34 min Scan# 1479

Delta R.T. -0.01 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

Instrument :

BNA_E

ClientSampleId :

SB-01B

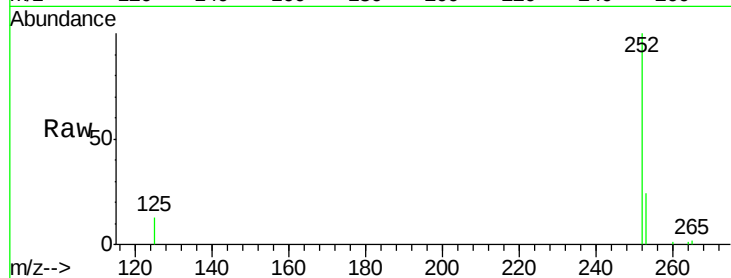
Tgt Ion:252 Resp: 43881

Ion Ratio Lower Upper

252 100

253 23.9 18.7 28.1

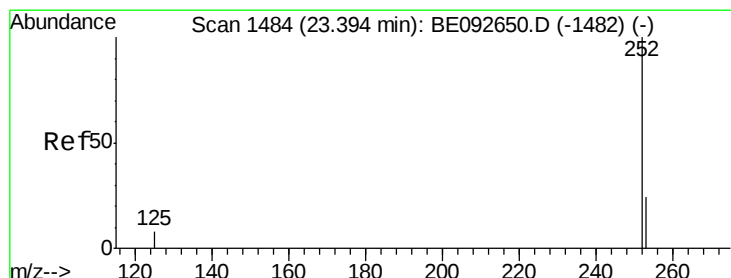
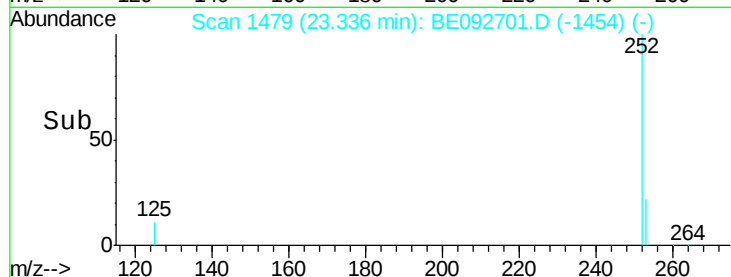
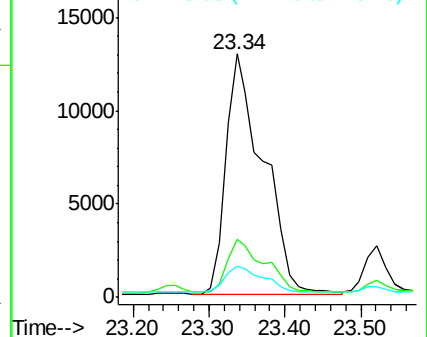
125 13.0 10.5 15.7



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: 2.25 ng

RT: 23.34 min Scan# 1479

Delta R.T. -0.06 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

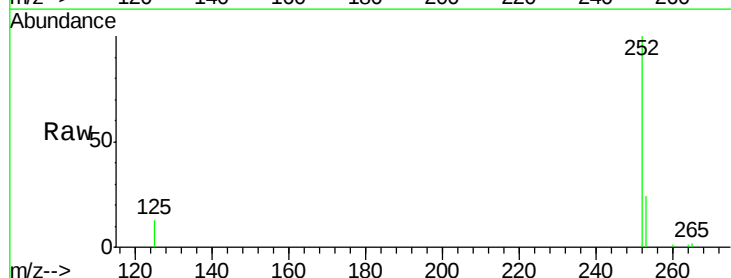
Tgt Ion:252 Resp: 43881

Ion Ratio Lower Upper

252 100

253 23.9 20.3 30.5

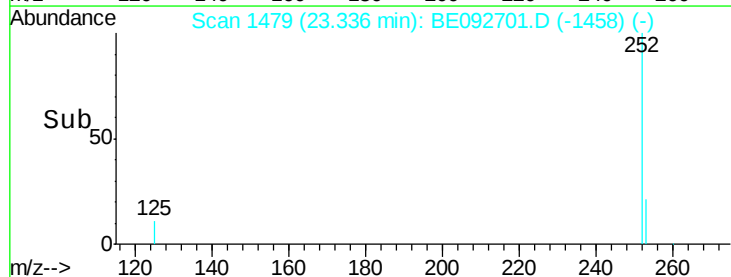
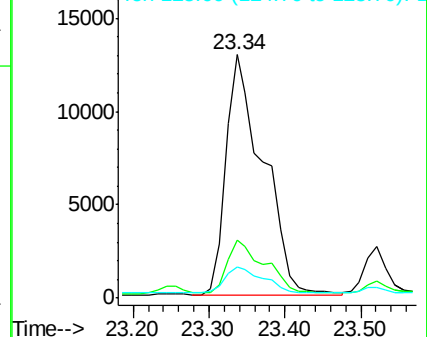
125 13.0 9.6 14.4

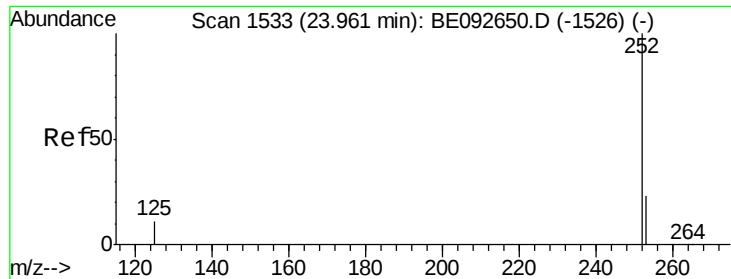


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#34

Benzo(a)pyrene

Concen: 1.34 ng

RT: 23.95 min Scan# 1532

Delta R.T. -0.01 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

Instrument :

BNA_E

ClientSampleId :

SB-01B

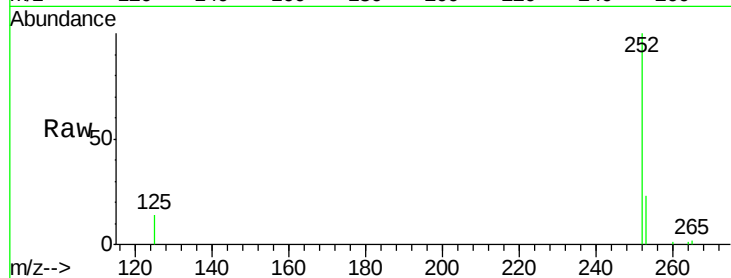
Tgt Ion: 252 Resp: 24473

Ion Ratio Lower Upper

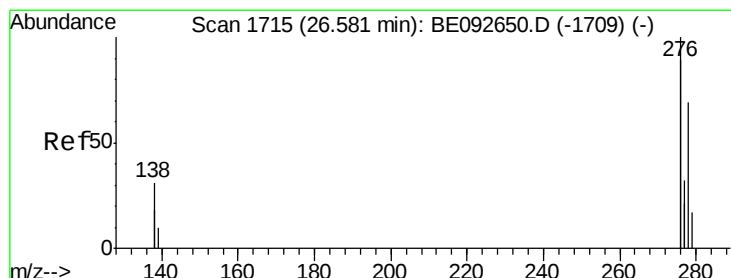
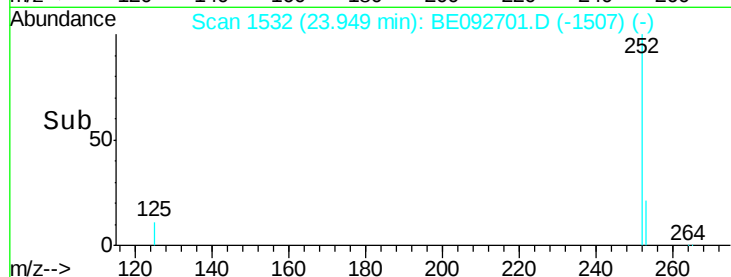
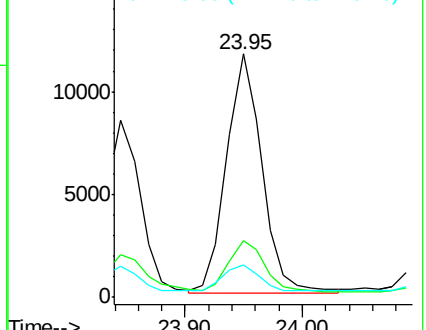
252 100

253 23.5 19.0 28.6

125 13.5 11.8 17.8



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



#35

Dibenzo(a,h)anthracene

Concen: 0.22 ng

RT: 26.53 min Scan# 1712

Delta R.T. -0.05 min

Lab File: BE092701.D

Acq: 31 Jan 2017 23:58

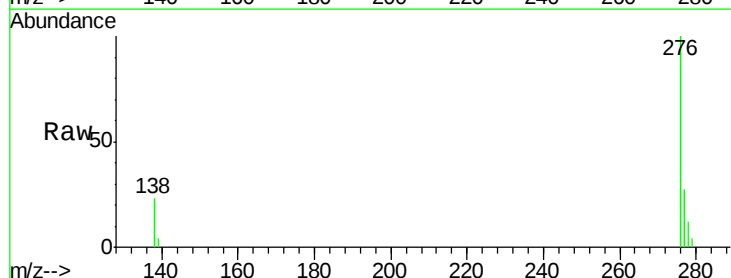
Tgt Ion: 278 Resp: 3870

Ion Ratio Lower Upper

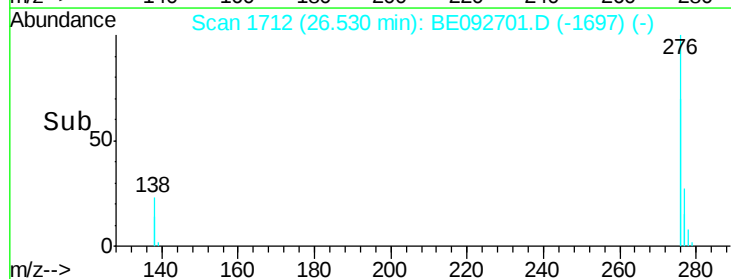
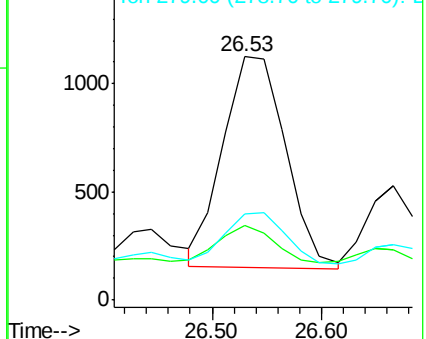
278 100

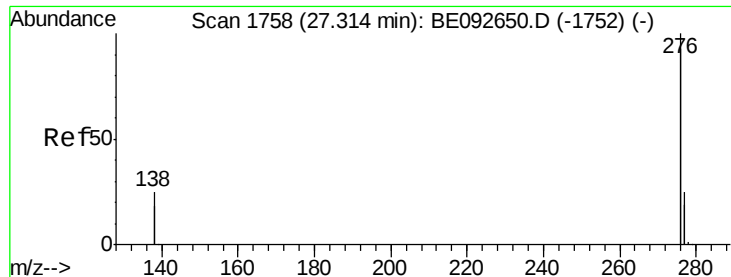
139 30.6 13.8 20.8#

279 35.4 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: 0.88 ng

RT: 27.30 min Scan# 1757

Delta R.T. -0.02 min

Lab File: BE092701.D

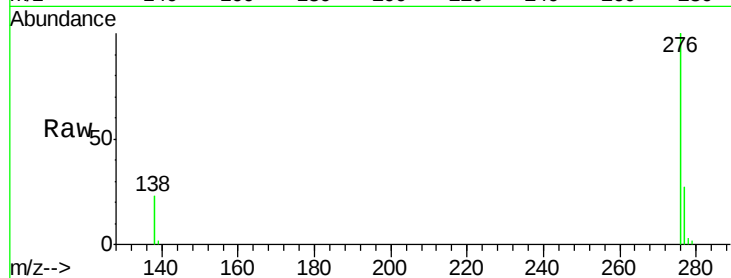
Acq: 31 Jan 2017 23:58

Instrument :

BNA_E

ClientSampleId :

SB-01B



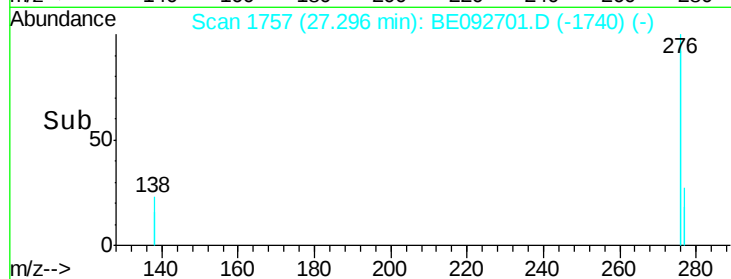
Tgt Ion: 276 Resp: 66142

Ion Ratio Lower Upper

276 100

277 26.9 19.8 29.8

138 23.0 19.8 29.6



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

