

Data Path : Z:\HPCHEM1\BNA E\DATA\BE012417\
 Data File : BE092678.D
 Acq On : 24 Jan 2017 22:57
 Operator : UM/SJ
 Sample : I1378-08 10X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jan 25 11:09:28 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	12417	5.00	ng	0.00
7) Naphthalene-d8	10.91	136	64336	5.00	ng	0.00
12) Acenaphthene-d10	14.78	164	41842	5.00	ng	0.00
18) Phenanthrene-d10	17.53	188	89614	5.00	ng	0.00
24) Chrysene-d12	21.72	240	80441	5.00	ng	0.00
31) Perylene-d12	24.06	264	87890	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.66	112	1815	0.65	ng	0.00
5) Phenol-d6	7.34	99	2417	0.71	ng	0.00
8) Nitrobenzene-d5	9.36	82	1088	0.26	ng	0.02
13) 2,4,6-Tribromophenol	16.28	330	626	0.63	ng	-0.01
14) 2-Fluorobiphenyl	13.41	172	3443	0.33	ng	-0.01
26) Terphenyl-d14	20.14	244	4743	0.42	ng	-0.02

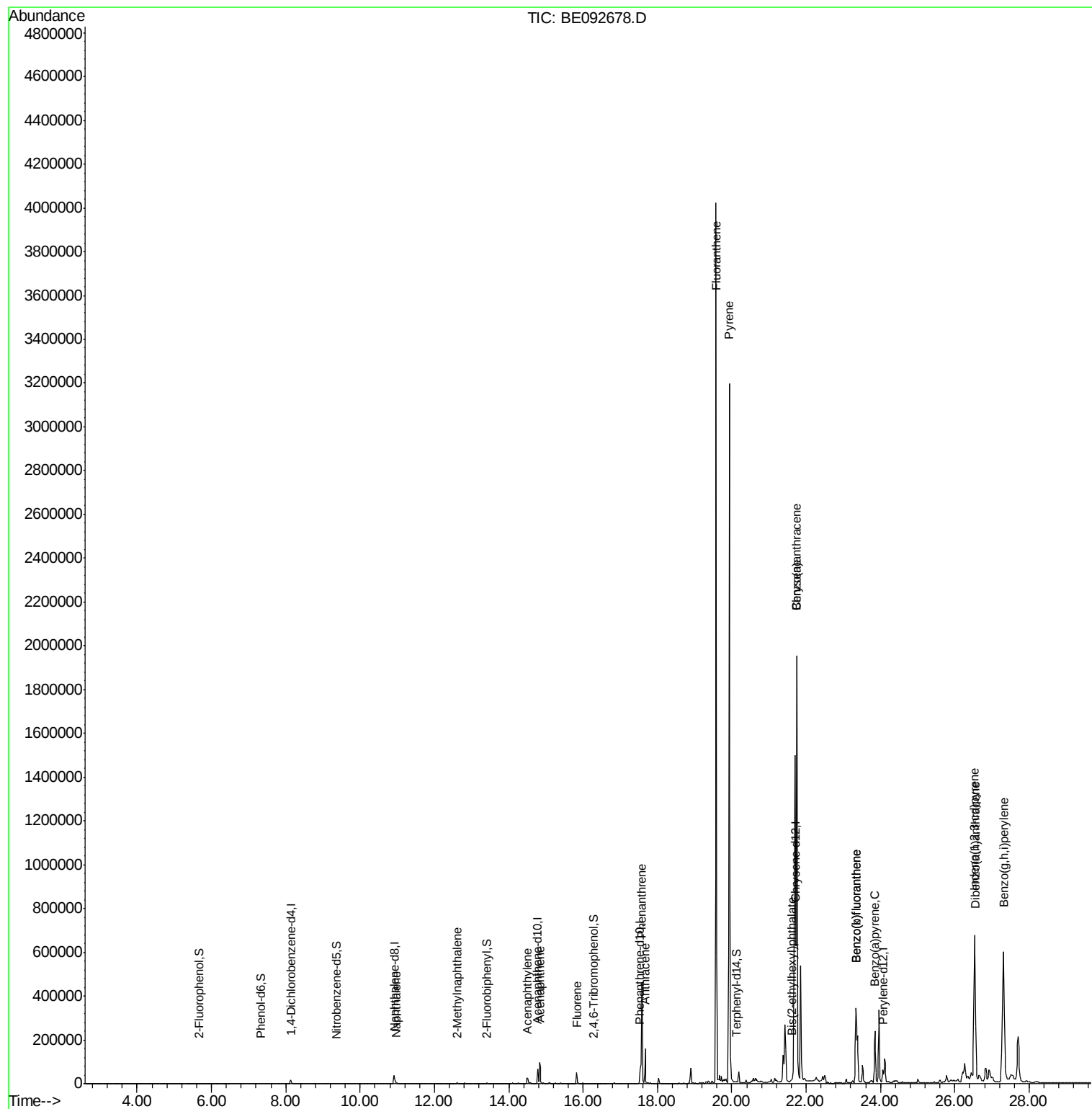
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Naphthalene	10.97	128	9506	0.71	ng	97
11) 2-Methylnaphthalene	12.60	142	3778	0.45	ng	99
15) Acenaphthylene	14.49	152	67223	1.17	ng	99
16) Acenaphthene	14.85	154	23574	2.55	ng	92
17) Fluorene	15.83	166	43773	3.77	ng	99
19) Hexachlorobenzene	16.66	284	113	Below Cal	#	39
21) Phenanthrene	17.58	178	571997	28.92	ng	# 95
22) Anthracene	17.67	178	217934	11.94	ng	98
23) Fluoranthene	19.58	202	4534334	51.69	ng	# 99
25) Pyrene	19.93	202	4045847	51.03	ng	# 87
27) Benzo(a)anthracene	21.75	228	4315627	54.46	ng	# 93
28) Chrysene	21.75	228	4315627	48.41	ng	# 74
29) Bis(2-ethylhexyl)phthalate	21.61	149	4738	0.50	ng	# 69
30) Indeno(1,2,3-cd)pyrene	26.53	276	1413405	14.67	ng	97
32) Benzo(b)fluoranthene	23.35	252	903192	42.48	ng	99
33) Benzo(k)fluoranthene	23.35	252	903192	42.29	ng	97
34) Benzo(a)pyrene	23.86	252	340916	17.08	ng	99
35) Dibenzo(a,h)anthracene	26.55	278	81758	4.18	ng	99
36) Benzo(a,h,i)perylene	27.31	276	1532663	18.56	ng	96

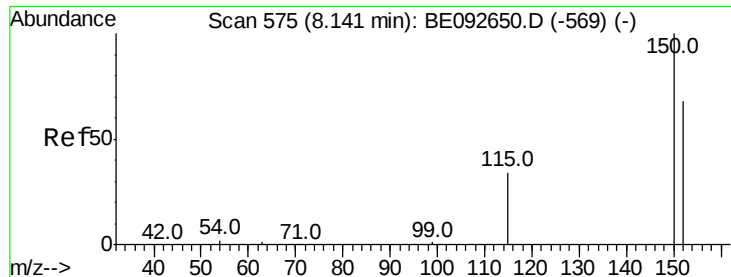
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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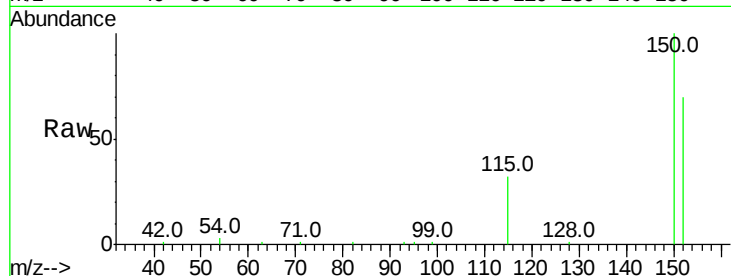


#1

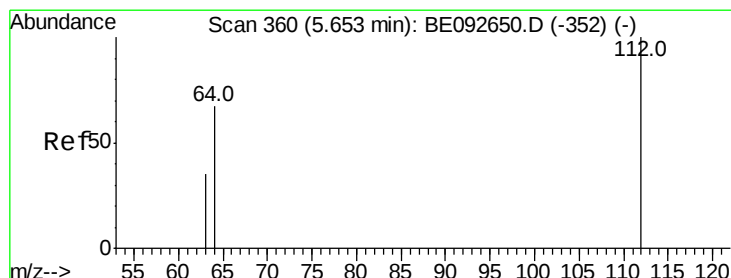
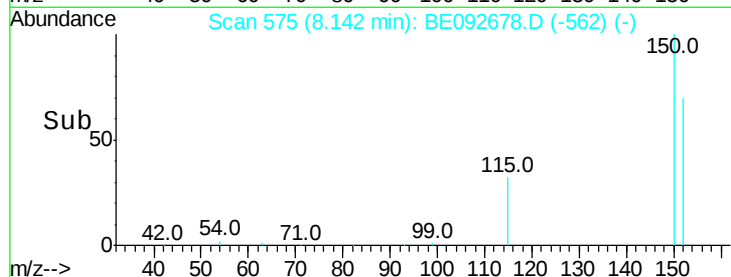
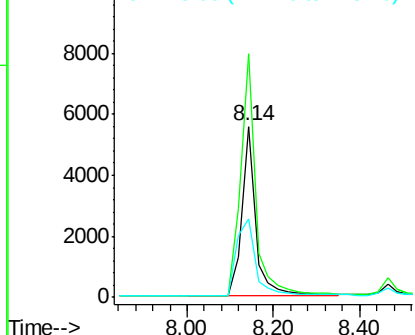
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 8.14 min Scan# 575
Delta R.T. 0.00 min
Lab File: BE092678.D
Acq: 24 Jan 2017 22:57

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 12417
Ion Ratio Lower Upper
152 100
150 142.6 106.0 159.0
115 45.9 31.2 46.8



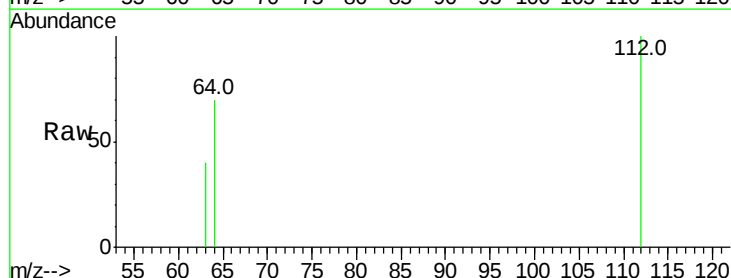
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



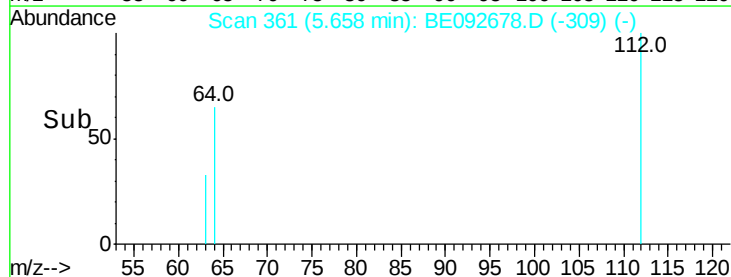
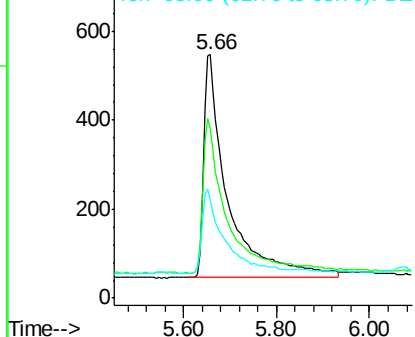
#4

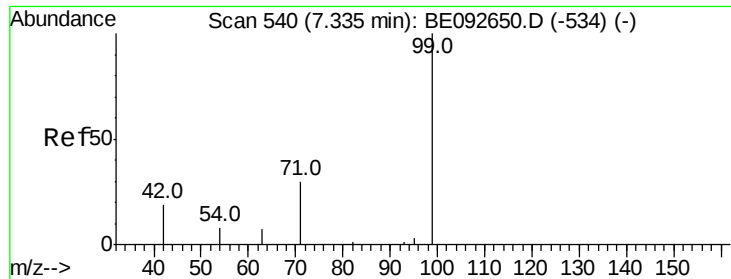
2-Fluorophenol
Concen: 0.65 ng
RT: 5.66 min Scan# 361
Delta R.T. 0.00 min
Lab File: BE092678.D
Acq: 24 Jan 2017 22:57

Tgt Ion:112 Resp: 1815
Ion Ratio Lower Upper
112 100
64 69.8 53.5 80.3
63 35.8 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: 0.71 ng

RT: 7.34 min Scan# 540

Delta R.T. 0.00 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

Instrument :

BNA_E

ClientSampleId :

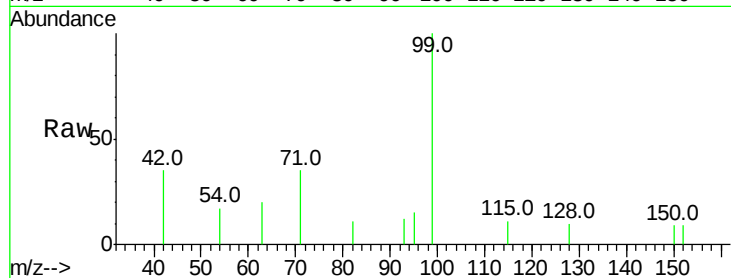
Tot Ion: 99 Resp: 2417

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

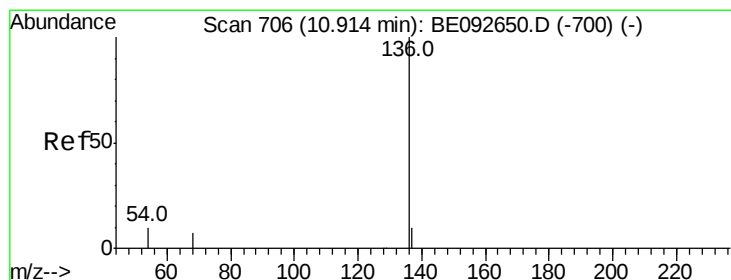
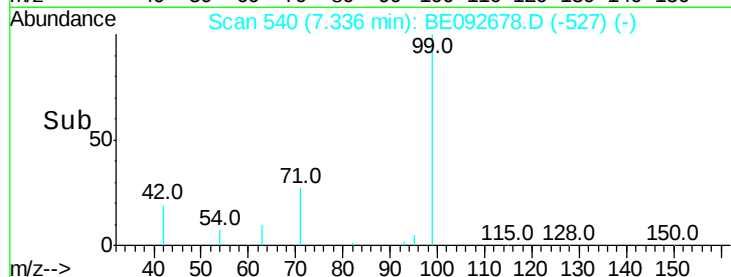
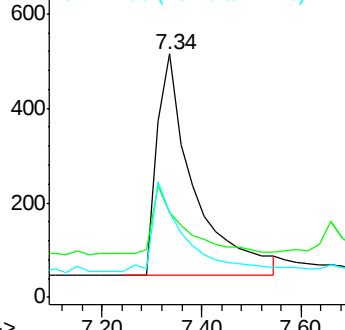
71 0.0 30.6 45.8#



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: BE092678.D

Acq: 24 Jan 2017 22:57

Tgt Ion: 136 Resp: 64336

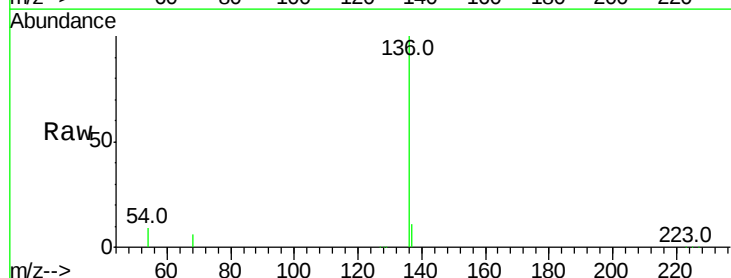
Ion Ratio Lower Upper

136 100

137 10.9 8.2 12.4

54 8.7 9.6 14.4#

68 6.2 6.7 10.1#

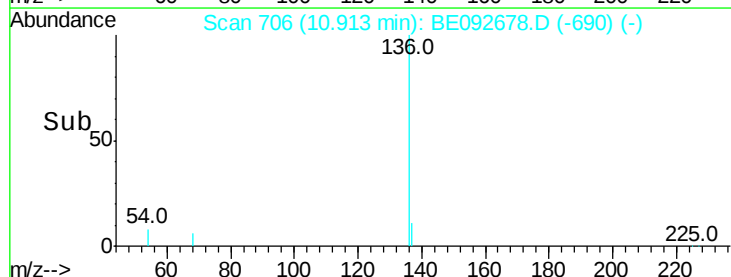
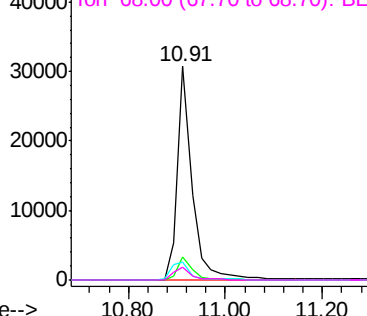


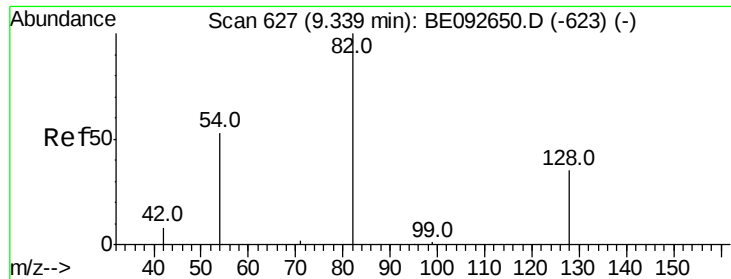
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.26 ng

RT: 9.36 min Scan# 628

Delta R.T. 0.02 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

Instrument :

BNA_E

ClientSampleId :

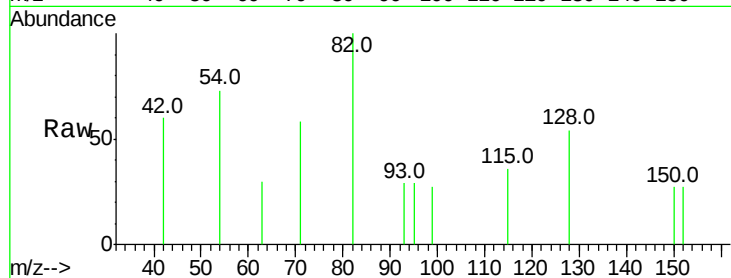
Tot Ion: 82 Resp: 1088

Ion Ratio Lower Upper

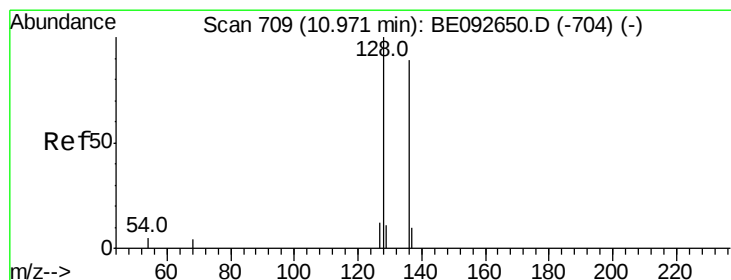
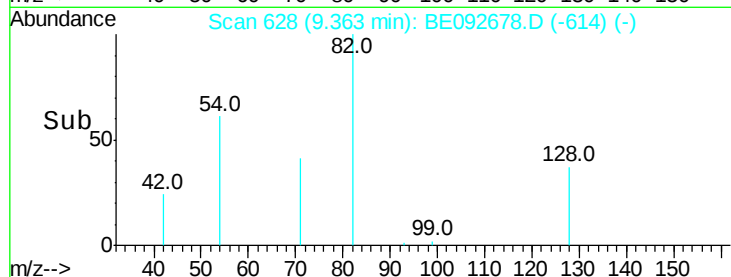
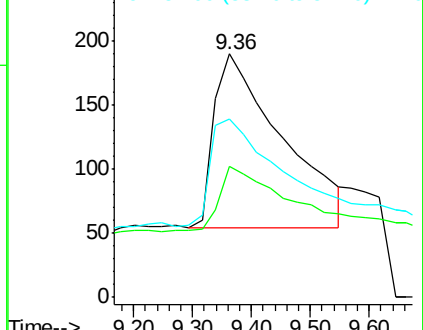
82 100

128 53.7 39.0 58.4

54 73.2 44.8 67.2#



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): BE0
Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.71 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.00 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

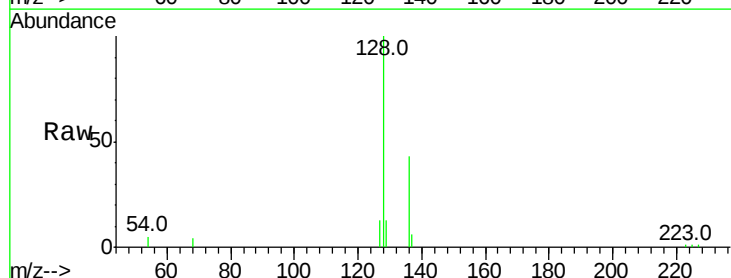
Tgt Ion: 128 Resp: 9506

Ion Ratio Lower Upper

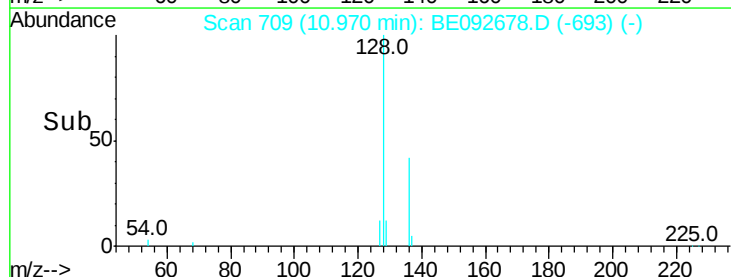
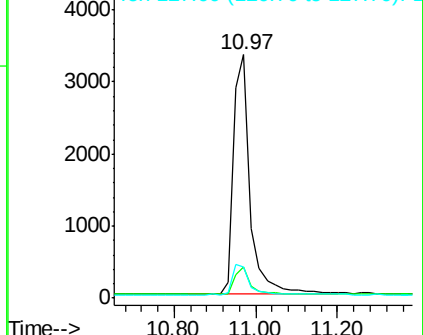
128 100

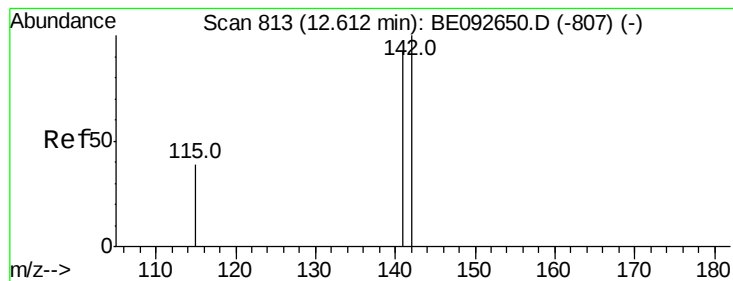
129 13.0 11.2 16.8

127 13.0 11.6 17.4



Abundance Ion 128.00 (127.70 to 128.70): BE
Ion 129.00 (128.70 to 129.70): BE
Ion 127.00 (126.70 to 127.70): BE





#11

2-Methylnaphthalene

Concen: 0.45 ng

RT: 12.60 min Scan# 812

Delta R.T. -0.01 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

Instrument :

BNA_E

ClientSampleId :

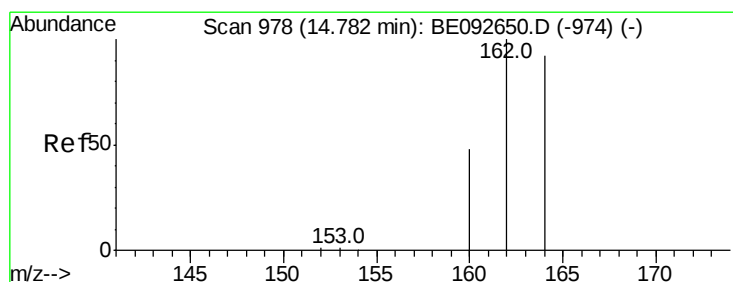
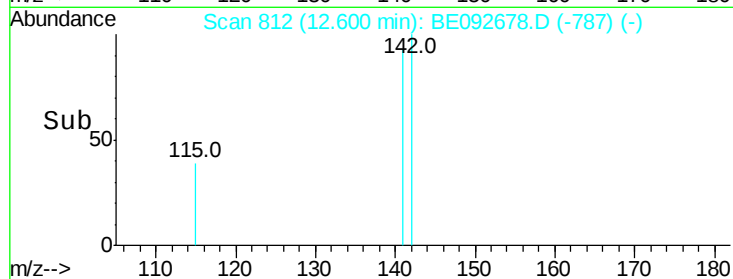
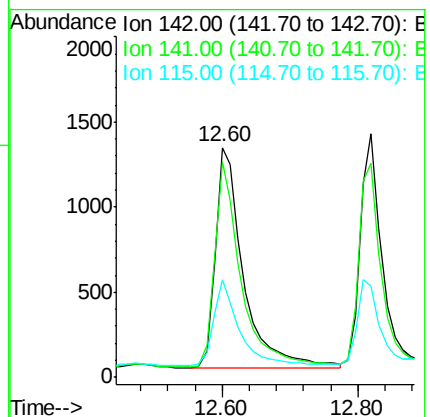
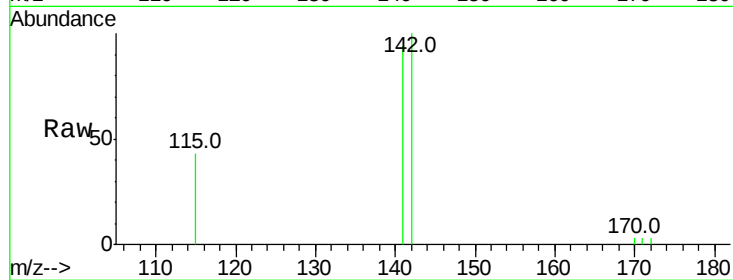
Tot Ion:142 Resp: 3778

Ion Ratio Lower Upper

142 100

141 93.7 73.7 110.5

115 42.7 34.0 51.0



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.78 min Scan# 978

Delta R.T. -0.00 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

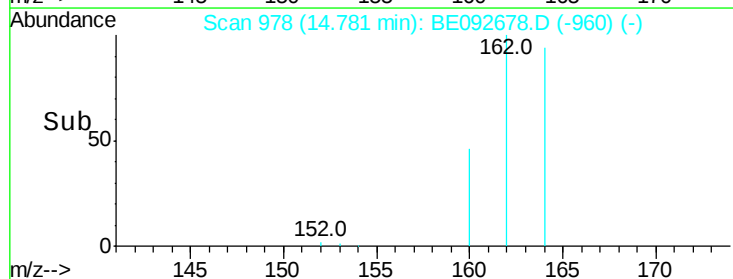
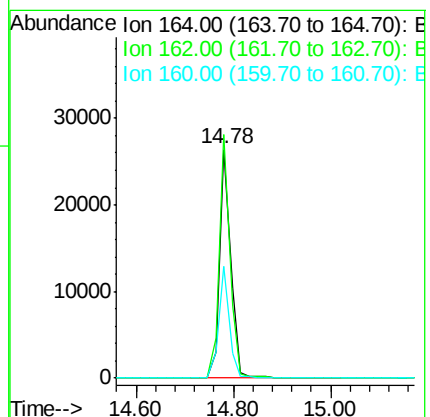
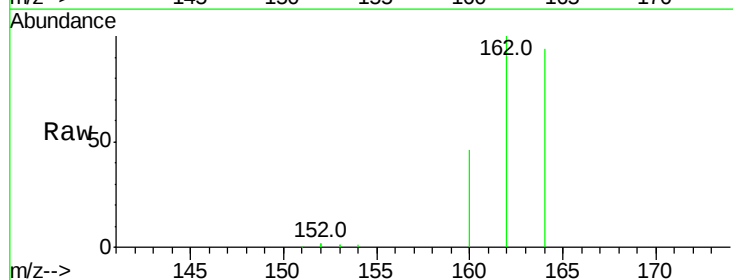
Tgt Ion:164 Resp: 41842

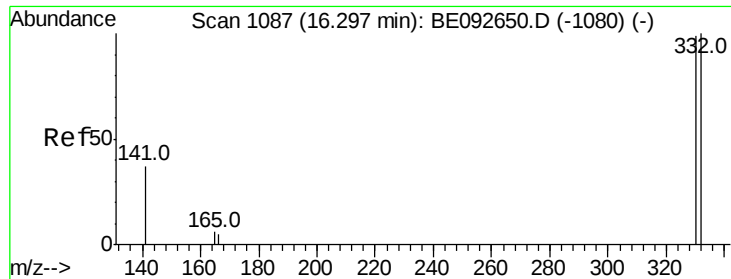
Ion Ratio Lower Upper

164 100

162 106.7 71.4 107.0

160 49.1 27.4 41.2#

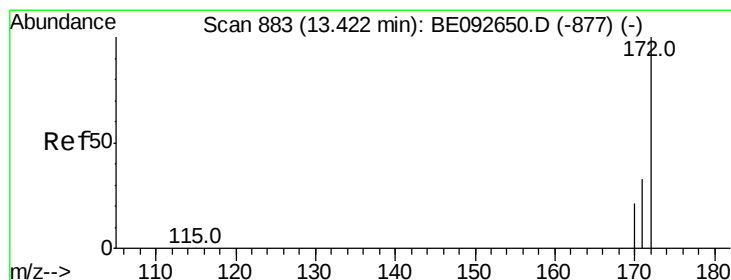
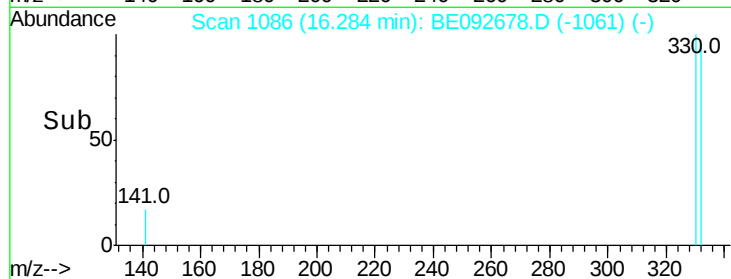
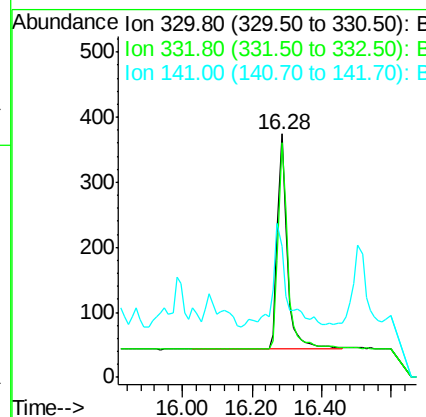
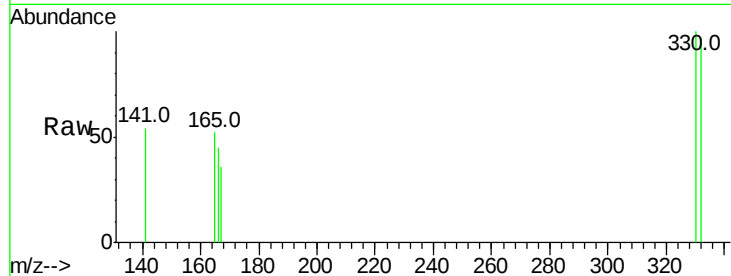




#13
 2,4,6-Tribromophenol
 Concen: 0.63 ng
 RT: 16.28 min Scan# 1086
 Delta R.T. -0.01 min
 Lab File: BE092678.D
 Acq: 24 Jan 2017 22:57

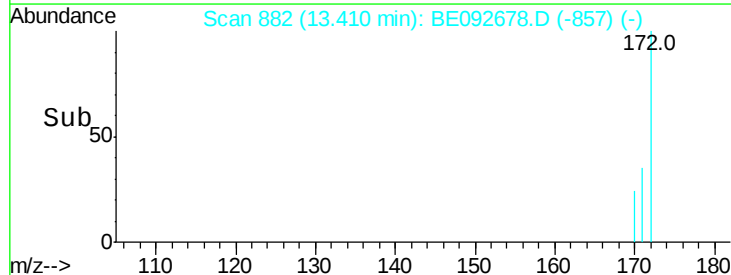
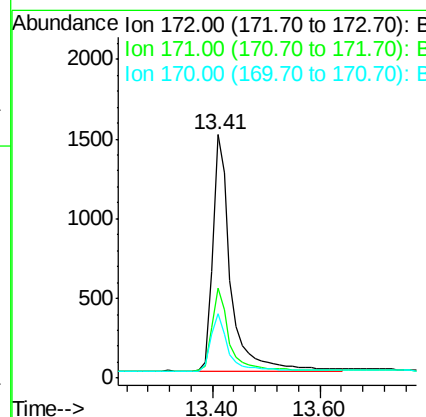
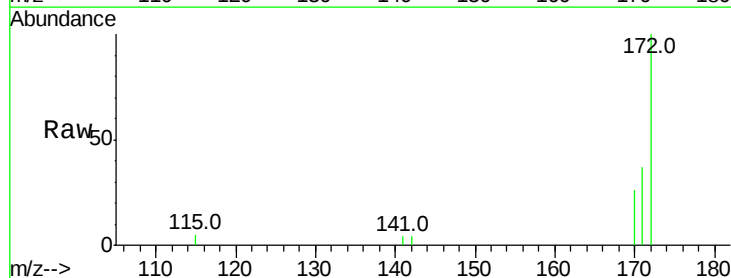
Instrument :
 BNA_E
 ClientSampleId :

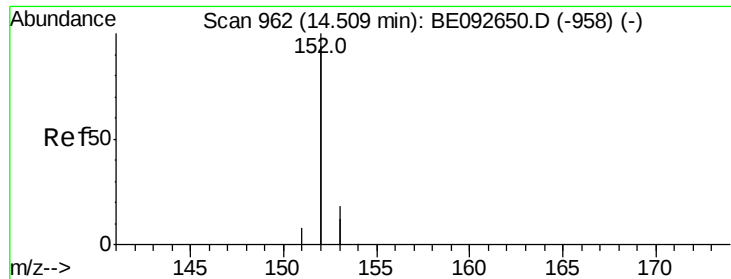
Tot Ion:330 Resp: 626
 Ion Ratio Lower Upper
 330 100
 332 98.1 75.4 113.0
 141 71.4 31.0 46.6#



#14
 2-Fluorobiphenyl
 Concen: 0.33 ng
 RT: 13.41 min Scan# 882
 Delta R.T. -0.01 min
 Lab File: BE092678.D
 Acq: 24 Jan 2017 22:57

Tgt Ion:172 Resp: 3443
 Ion Ratio Lower Upper
 172 100
 171 36.8 30.1 45.1
 170 26.4 21.8 32.6

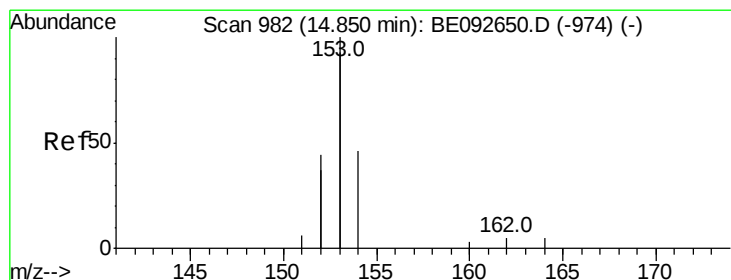
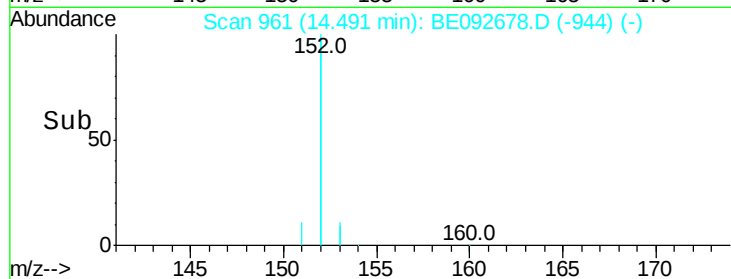
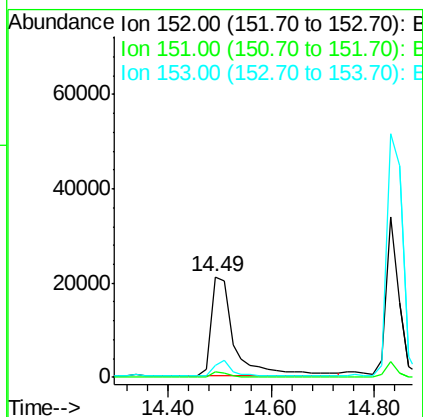
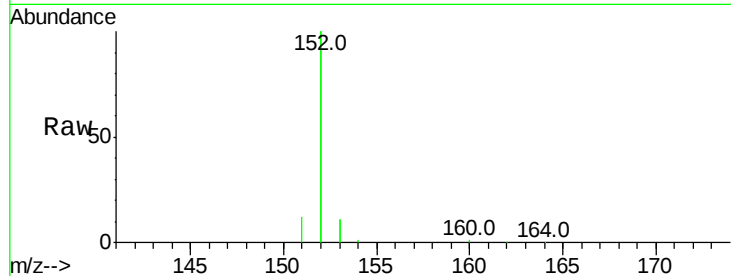




#15
Acenaphthylene
Concen: 1.17 ng
RT: 14.49 min Scan# 961
Delta R.T. -0.02 min
Lab File: BE092678.D
Acq: 24 Jan 2017 22:57

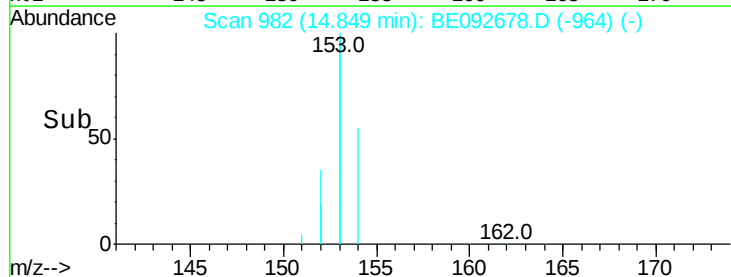
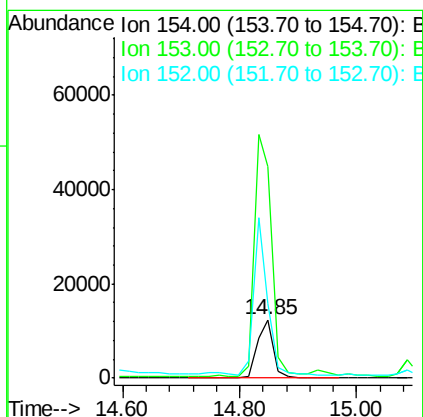
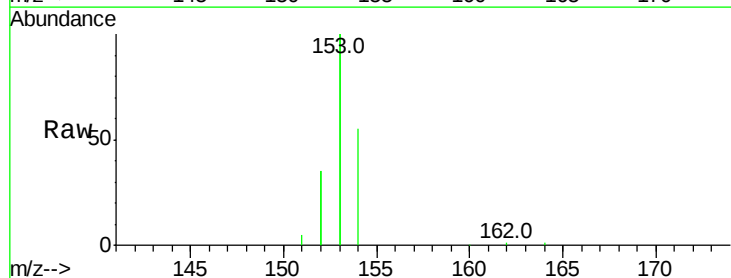
Instrument :
BNA_E
ClientSampleId :

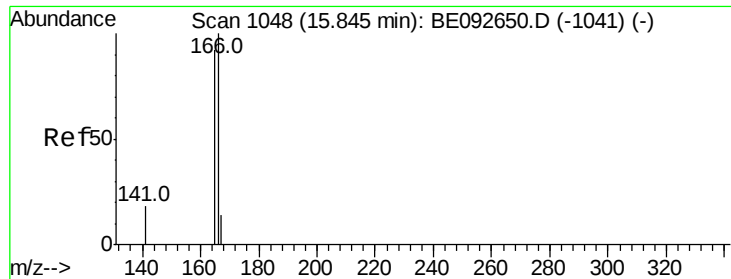
Tot Ion:152 Resp: 67223
Ion Ratio Lower Upper
152 100
151 4.9 3.9 5.9
153 13.3 10.4 15.6



#16
Acenaphthene
Concen: 2.55 ng
RT: 14.85 min Scan# 982
Delta R.T. -0.00 min
Lab File: BE092678.D
Acq: 24 Jan 2017 22:57

Tgt Ion:154 Resp: 23574
Ion Ratio Lower Upper
154 100
153 453.0 350.8 526.2
152 234.7 171.1 256.7

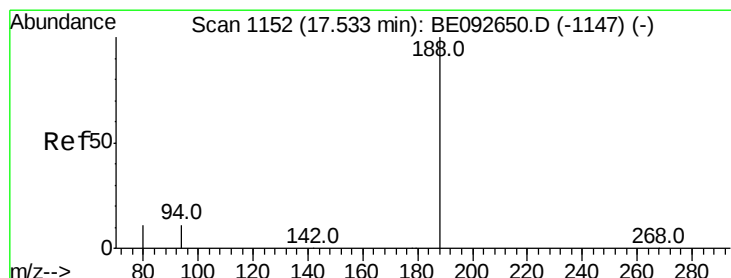
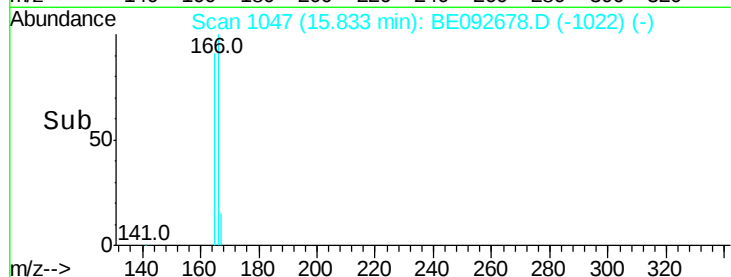
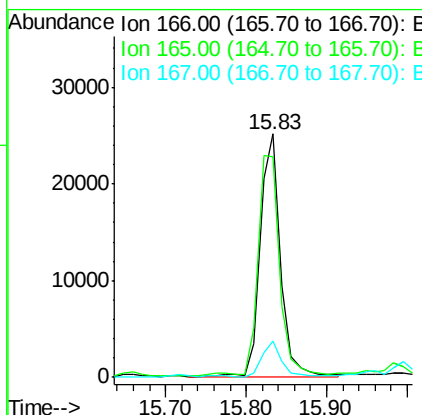
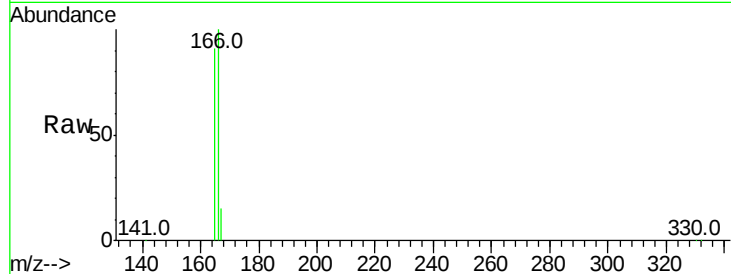




#17
Fluorene
 Concen: 3.77 ng
 RT: 15.83 min Scan# 1047
 Delta R.T. -0.01 min
 Lab File: BE092678.D
 Acq: 24 Jan 2017 22:57

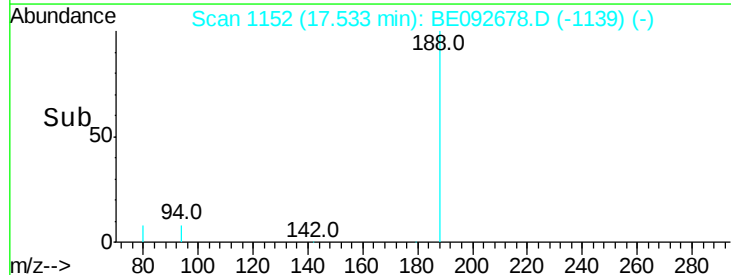
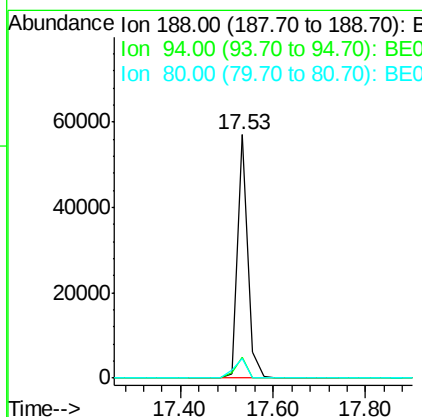
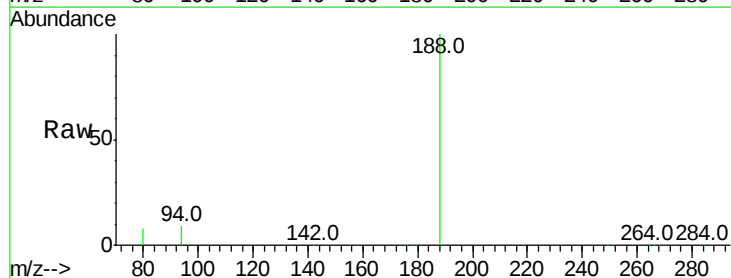
Instrument :
 BNA_E
 ClientSampleId :

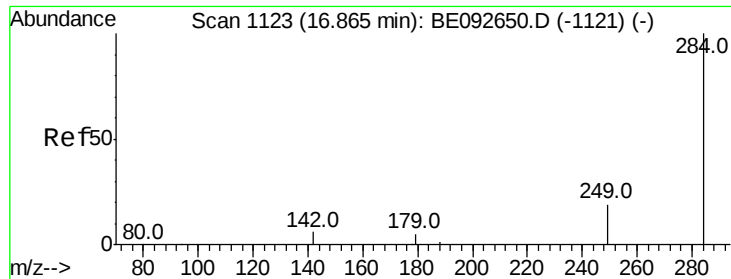
Tot Ion:166 Resp: 43773
 Ion Ratio Lower Upper
 166 100
 165 99.1 78.2 117.4
 167 14.0 11.0 16.4



#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.53 min Scan# 1152
 Delta R.T. -0.00 min
 Lab File: BE092678.D
 Acq: 24 Jan 2017 22:57

Tgt Ion:188 Resp: 89614
 Ion Ratio Lower Upper
 188 100
 94 8.5 3.2 4.8#
 80 7.9 2.6 3.8#





#19

Hexachlorobenzene

Concen: Below Cal

RT: 16.66 min Scan# 1114

Delta R.T. -0.21 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

Instrument :

BNA_E

ClientSampleId :

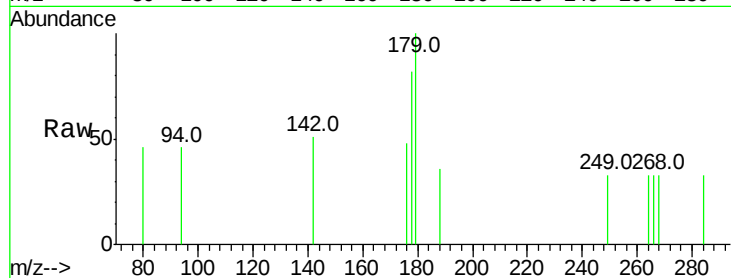
Tot Ion:284 Resp: 113

Ion Ratio Lower Upper

284 100

142 0.0 29.1 43.7#

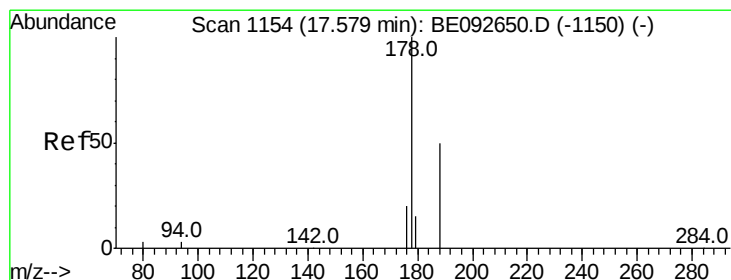
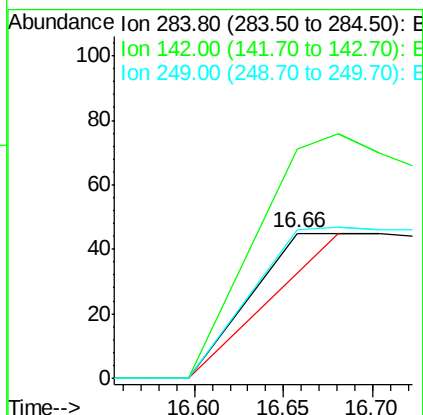
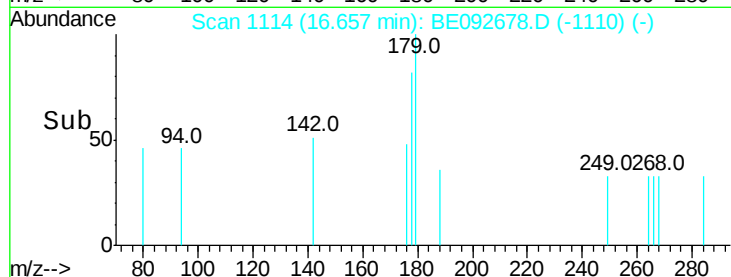
249 0.0 27.9 41.9#



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: 28.92 ng

RT: 17.58 min Scan# 1154

Delta R.T. -0.00 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

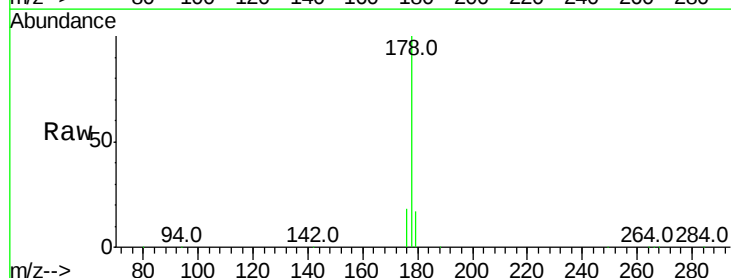
Tgt Ion:178 Resp: 571997

Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.8

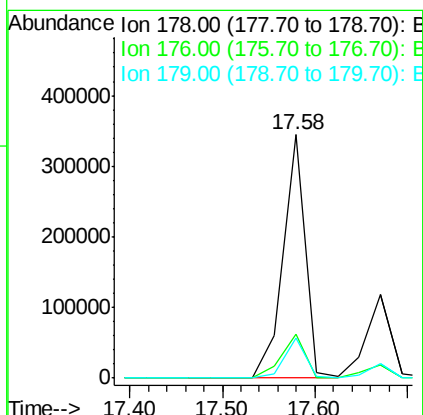
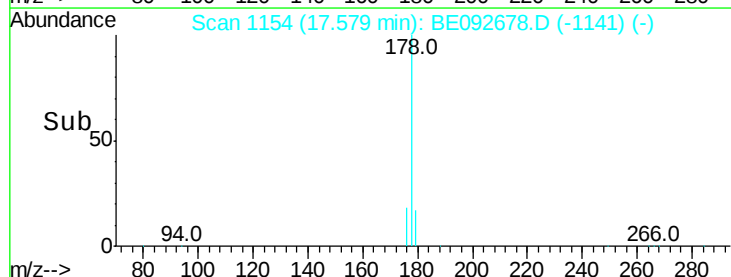
179 16.0 16.0 24.0#

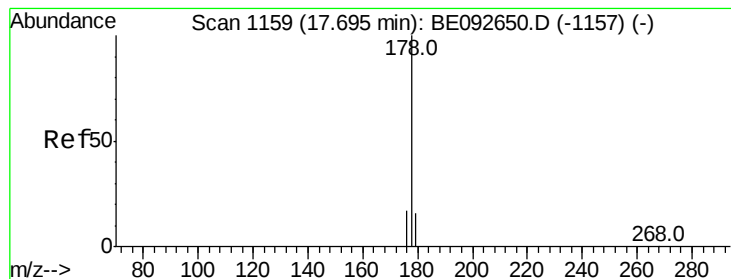


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#22

Anthracene

Concen: 11.94 ng

RT: 17.67 min Scan# 1158

Delta R.T. -0.02 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

Instrument :

BNA_E

ClientSampleId :

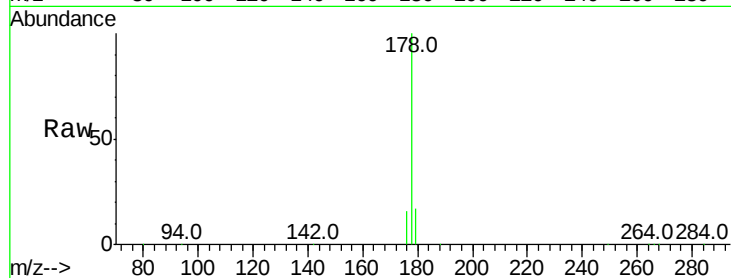
Tot Ion:178 Resp: 217934

Ion Ratio Lower Upper

178 100

176 18.2 15.0 22.4

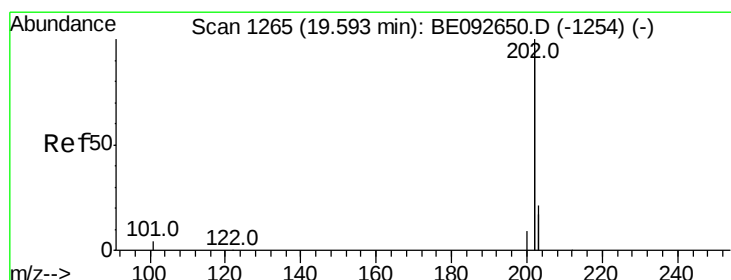
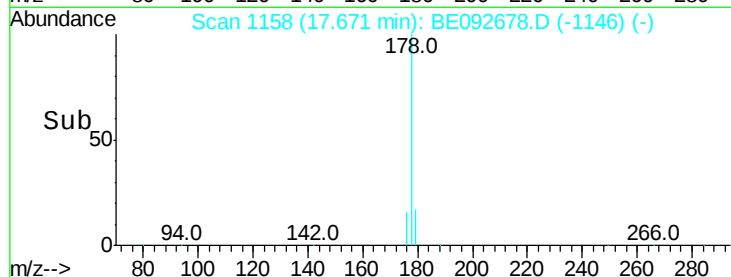
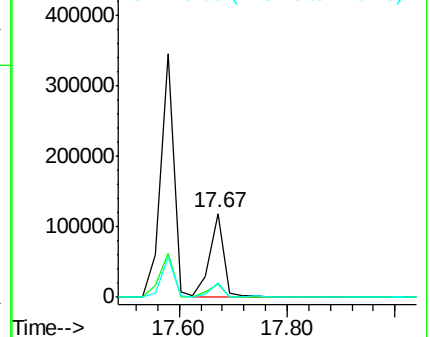
179 16.2 12.2 18.2



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



#23

Fluoranthene

Concen: 51.69 ng

RT: 19.58 min Scan# 1264

Delta R.T. -0.02 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

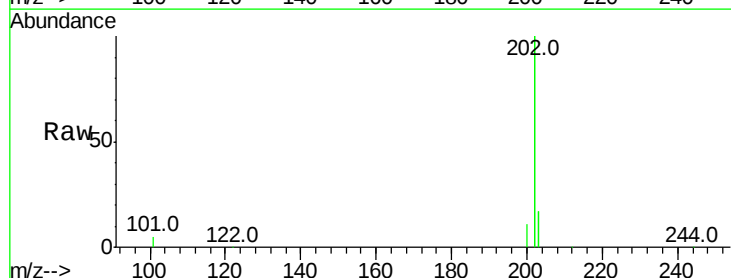
Tgt Ion:202 Resp: 4534334

Ion Ratio Lower Upper

202 100

101 3.4 2.2 3.4#

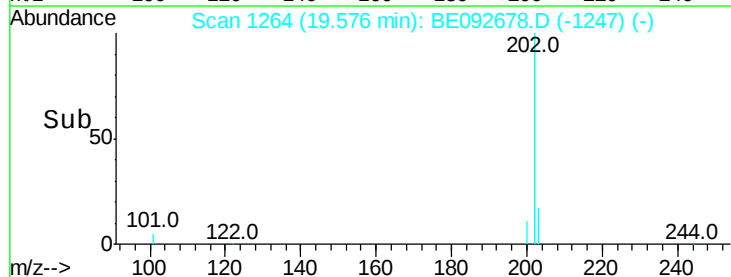
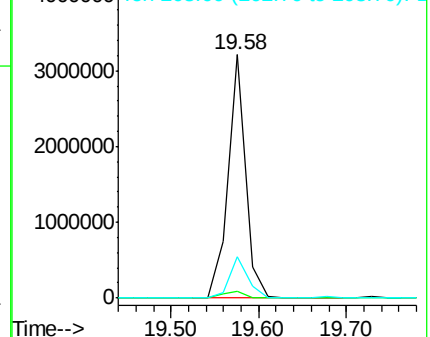
203 17.3 13.7 20.5

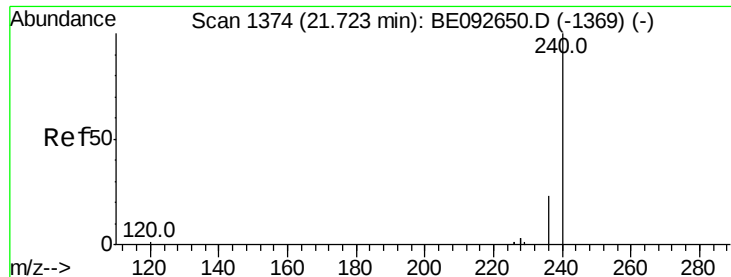


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.72 min Scan# 1374

Delta R.T. 0.00 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

Instrument :

BNA_E

ClientSampleId :

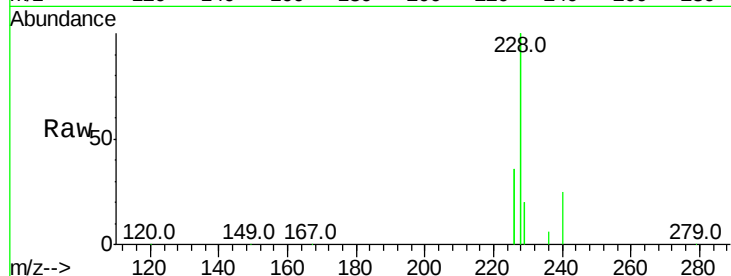
Tot Ion:240 Resp: 80441

Ion Ratio Lower Upper

240 100

120 1.1 2.6 4.0#

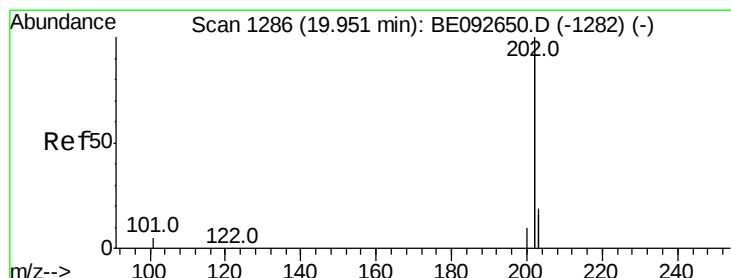
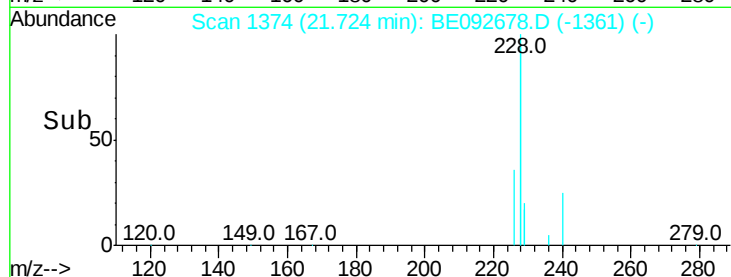
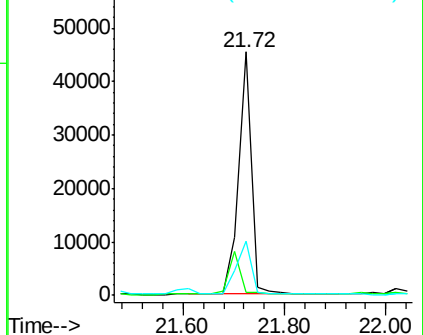
236 22.2 24.6 37.0#



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#25

Pyrene

Concen: 51.03 ng

RT: 19.93 min Scan# 1285

Delta R.T. -0.02 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

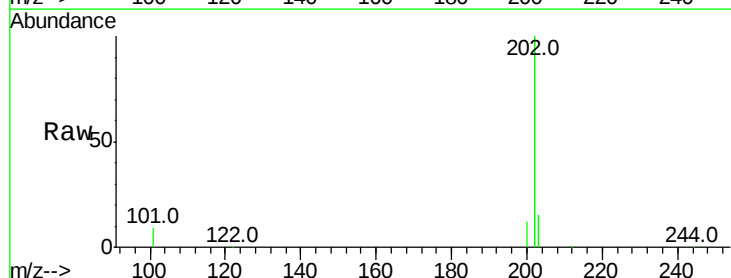
Tgt Ion:202 Resp: 4045847

Ion Ratio Lower Upper

202 100

200 5.7 4.2 6.4

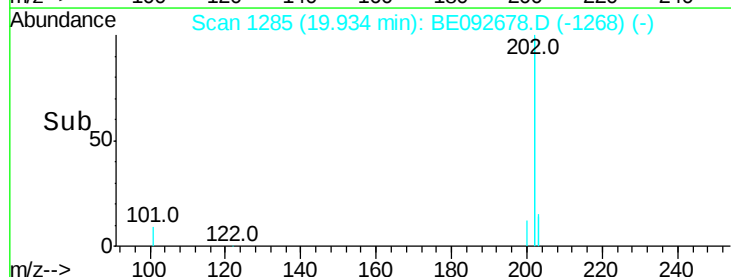
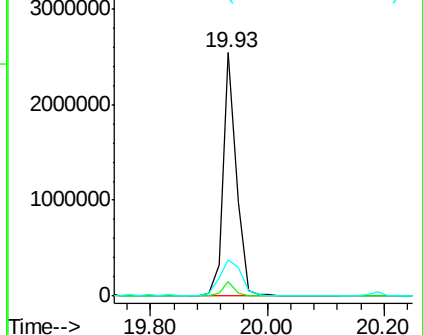
203 24.8 13.9 20.9#

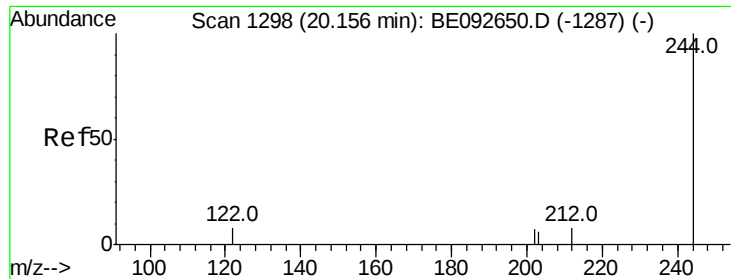


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

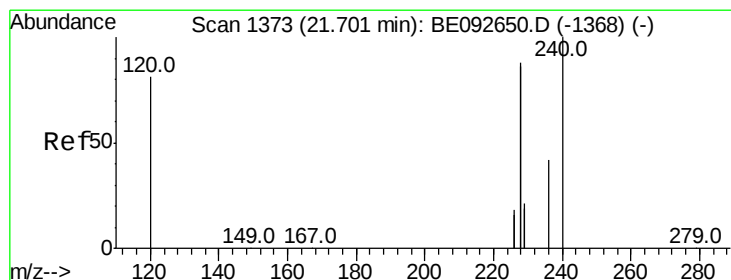
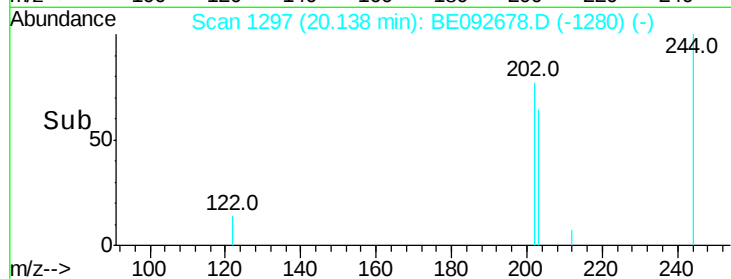
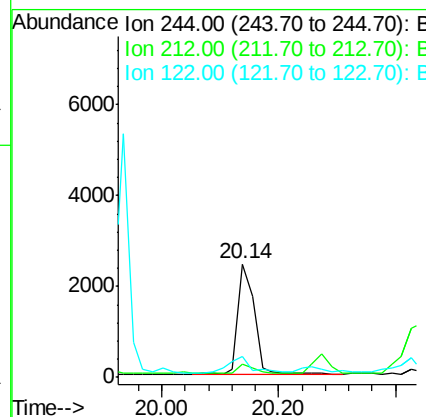
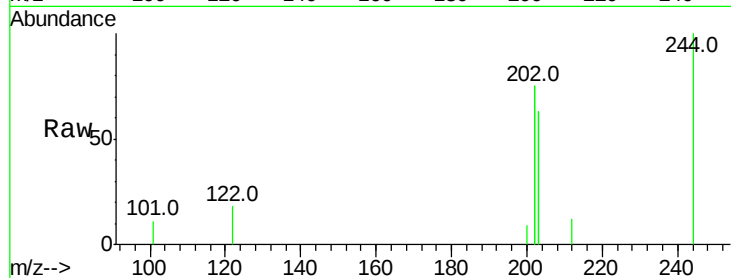




#26
 Terphenyl-d14
 Concen: 0.42 ng
 RT: 20.14 min Scan# 1297
 Delta R.T. -0.02 min
 Lab File: BE092678.D
 Acq: 24 Jan 2017 22:57

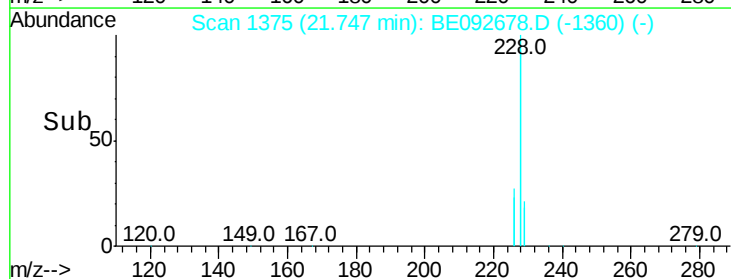
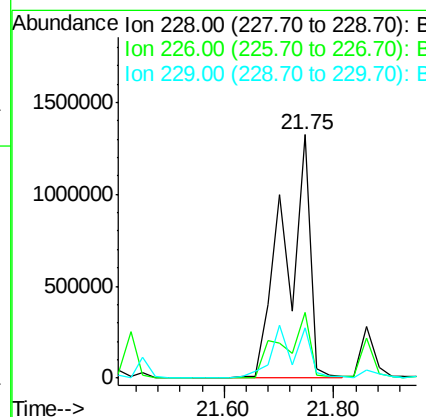
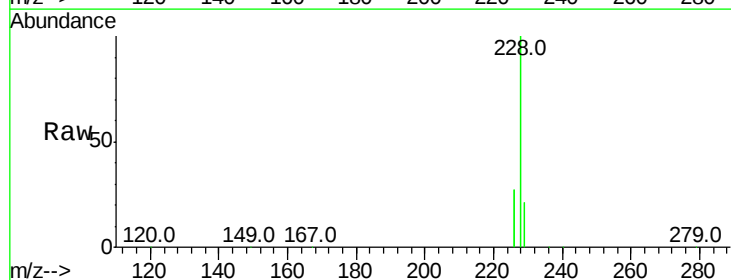
Instrument :
 BNA_E
 ClientSampleId :

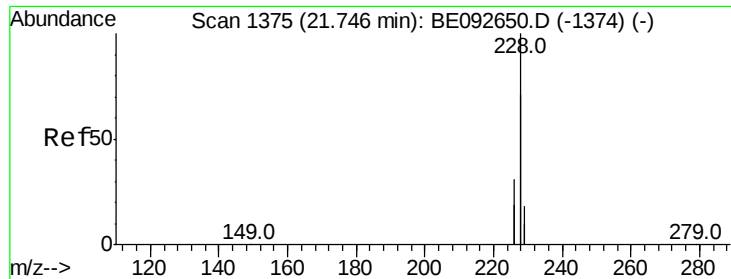
Tot Ion:244 Resp: 4743
 Ion Ratio Lower Upper
 244 100
 212 12.0 6.7 10.1#
 122 18.3 3.6 5.4#



#27
 Benzo(a)anthracene
 Concen: 54.46 ng
 RT: 21.75 min Scan# 1375
 Delta R.T. 0.05 min
 Lab File: BE092678.D
 Acq: 24 Jan 2017 22:57

Tgt Ion:228 Resp: 4315627
 Ion Ratio Lower Upper
 228 100
 226 26.8 23.6 35.4
 229 20.6 13.3 19.9#





#28

Chrysene

Concen: 48.41 ng

RT: 21.75 min Scan# 1375

Delta R.T. 0.00 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

Instrument :

BNA_E

ClientSampleId :

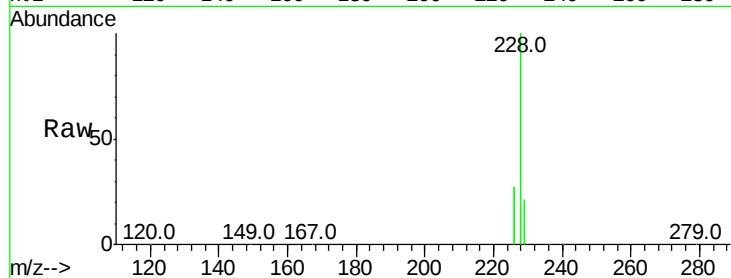
Tot Ion:228 Resp: 4315627

Ion Ratio Lower Upper

228 100

226 26.8 36.3 54.5#

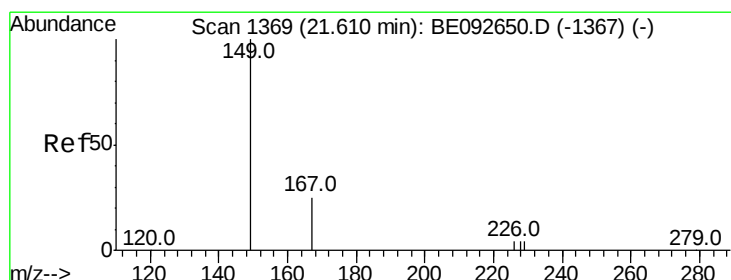
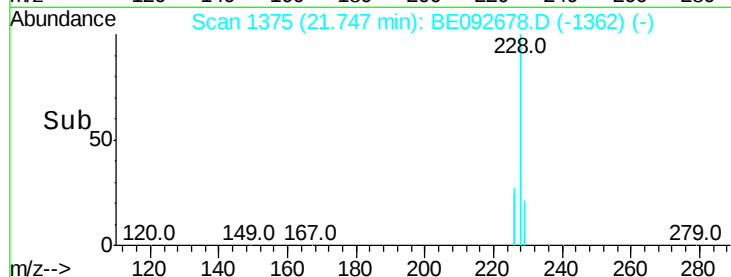
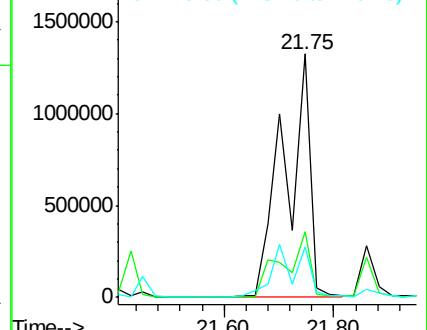
229 20.6 10.6 16.0#



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: 0.50 ng

RT: 21.61 min Scan# 1369

Delta R.T. 0.00 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

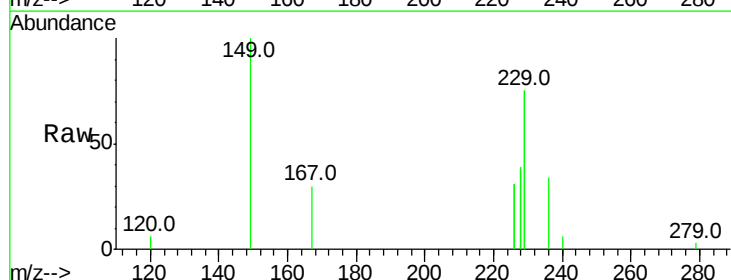
Tgt Ion:149 Resp: 4738

Ion Ratio Lower Upper

149 100

167 28.1 16.0 24.0#

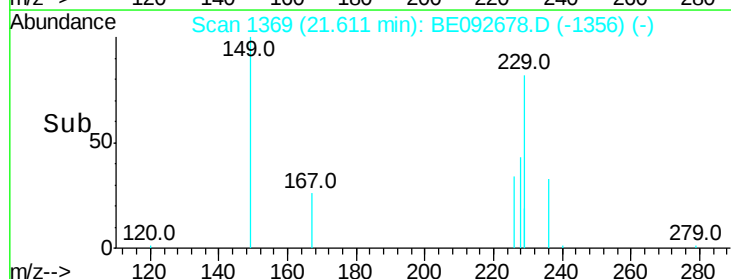
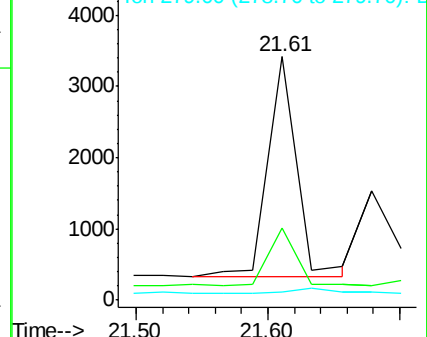
279 0.0 16.0 24.0#

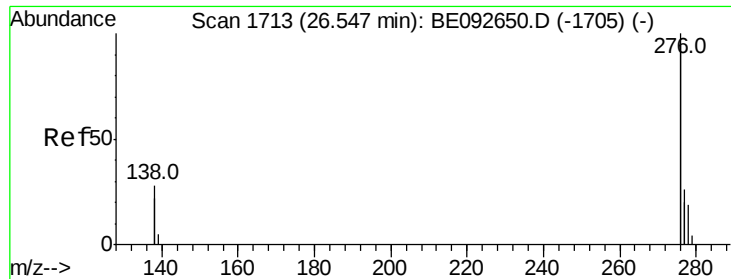


Abundance Ion 149.00 (148.70 to 149.70): E

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: 14.67 ng

RT: 26.53 min Scan# 1712

Delta R.T. -0.02 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

Instrument :

BNA_E

ClientSampleId :

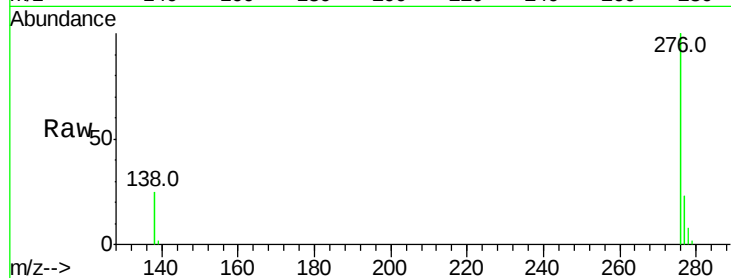
Tot Ion:276 Resp: 1413405

Ion Ratio Lower Upper

276 100

138 23.7 20.3 30.5

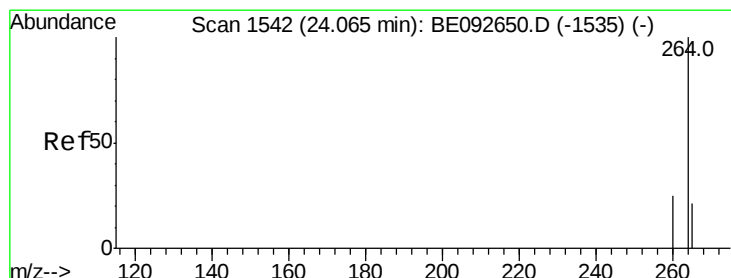
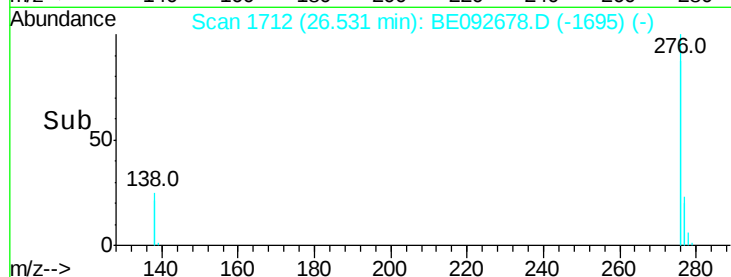
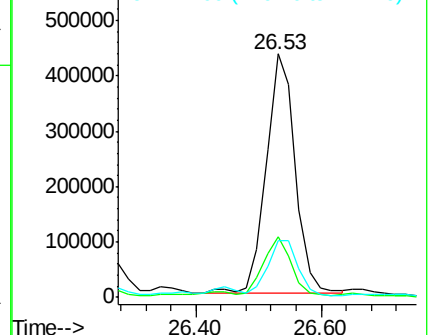
277 23.8 19.7 29.5



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: 24.06 min Scan# 1542

Delta R.T. -0.00 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

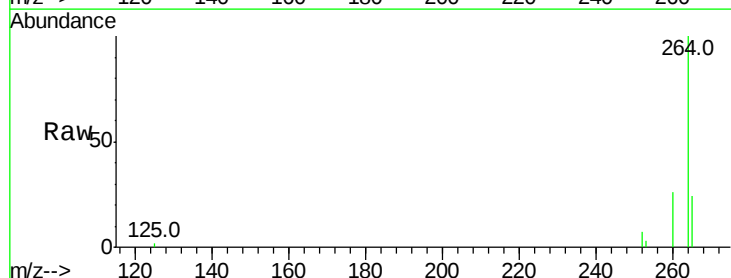
Tgt Ion:264 Resp: 87890

Ion Ratio Lower Upper

264 100

260 25.9 20.1 30.1

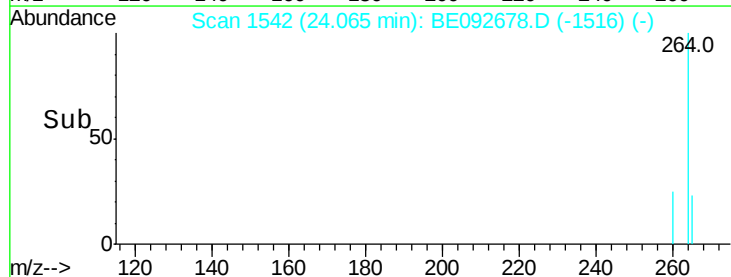
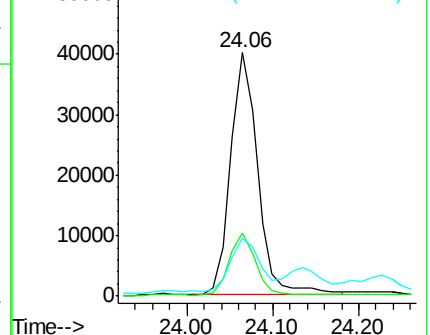
265 23.6 17.9 26.9

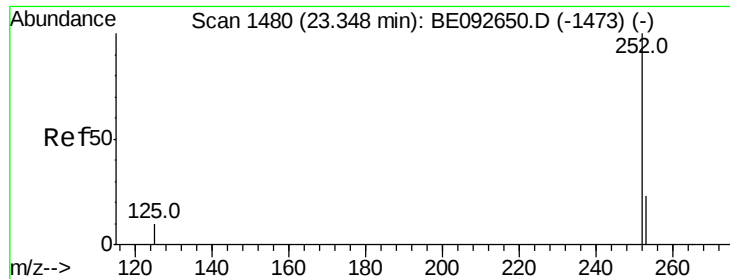


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#32

Benzo(b)fluoranthene

Concen: 42.48 ng

RT: 23.35 min Scan# 1480

Delta R.T. -0.00 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

Instrument :

BNA_E

ClientSampleId :

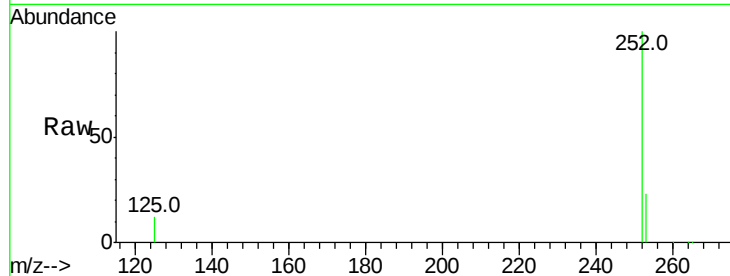
Tot Ion:252 Resp: 903192

Ion Ratio Lower Upper

252 100

253 23.5 18.7 28.1

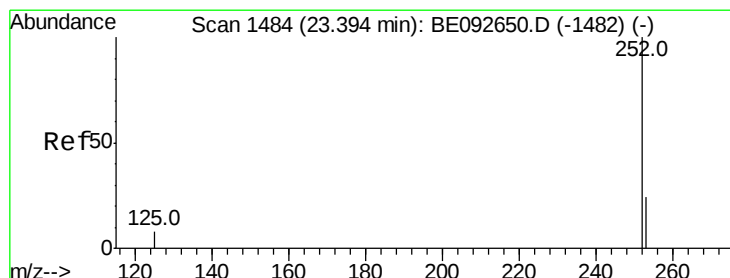
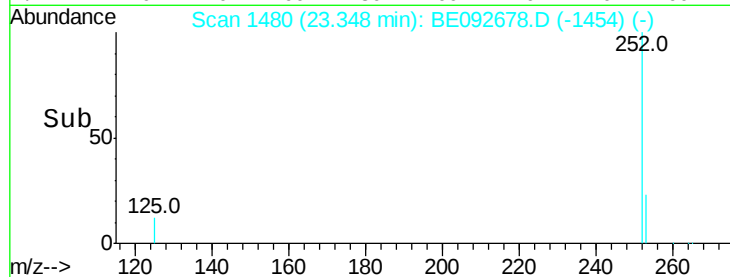
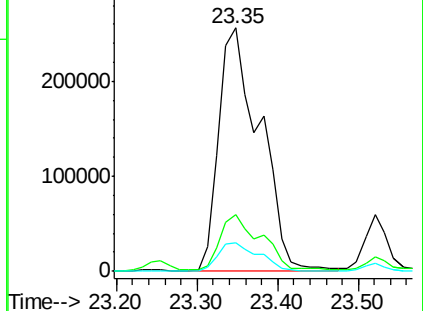
125 11.7 10.5 15.7



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: 42.29 ng

RT: 23.35 min Scan# 1480

Delta R.T. -0.05 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

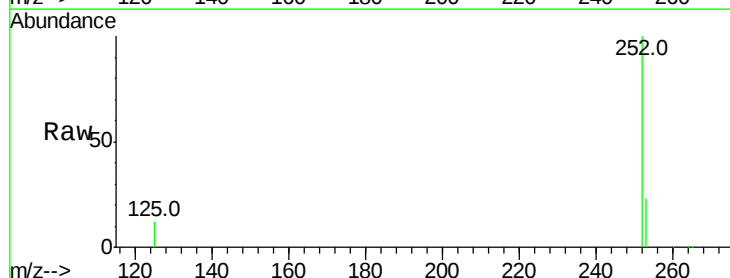
Tgt Ion:252 Resp: 903192

Ion Ratio Lower Upper

252 100

253 23.5 20.3 30.5

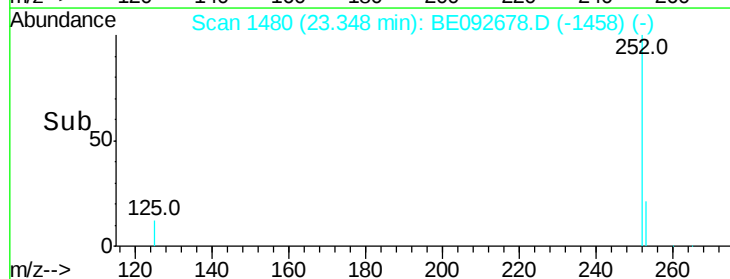
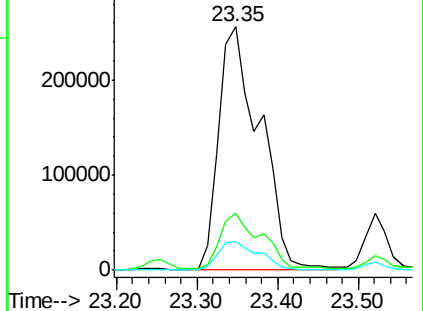
125 11.7 9.6 14.4

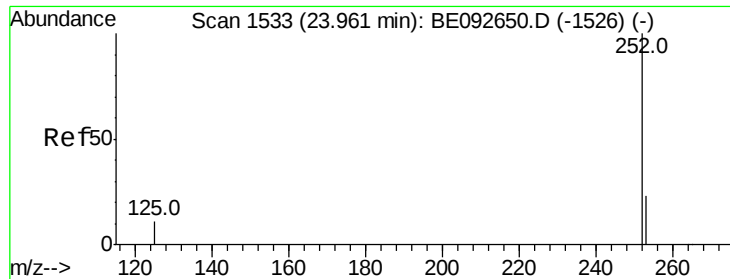


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#34

Benzo(a)pyrene

Concen: 17.08 ng

RT: 23.86 min Scan# 1524

Delta R.T. -0.10 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

Instrument :

BNA_E

ClientSampleId :

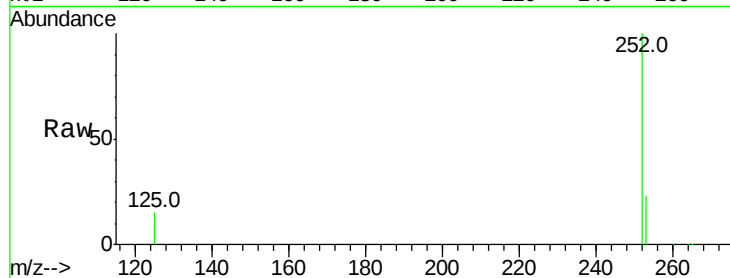
Tot Ion:252 Resp: 340916

Ion Ratio Lower Upper

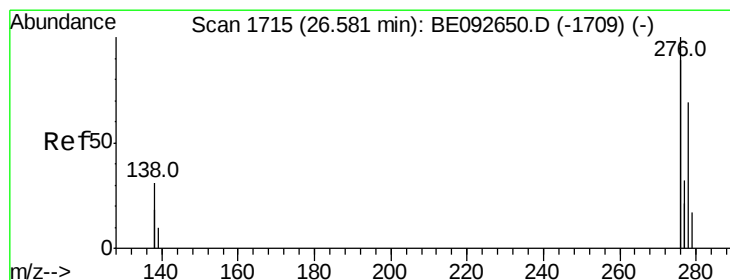
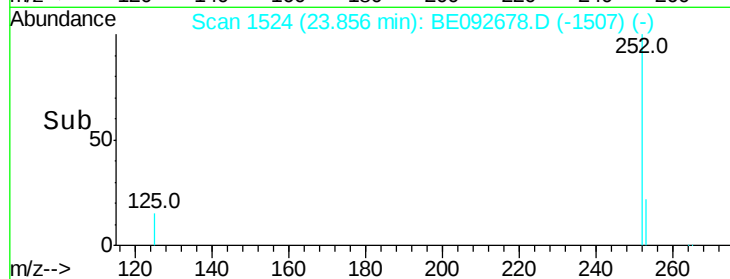
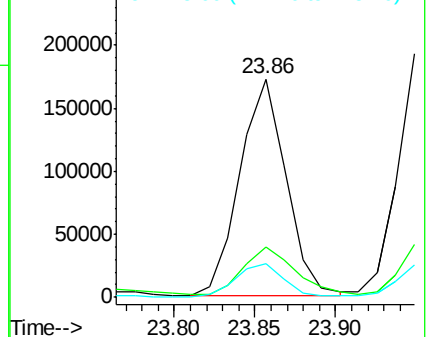
252 100

253 23.1 19.0 28.6

125 15.4 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: 4.18 ng

RT: 26.55 min Scan# 1713

Delta R.T. -0.03 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

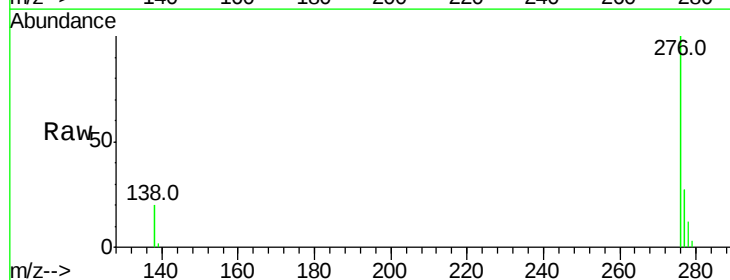
Tgt Ion:278 Resp: 81758

Ion Ratio Lower Upper

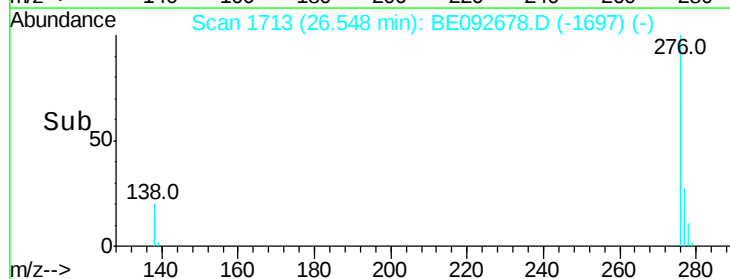
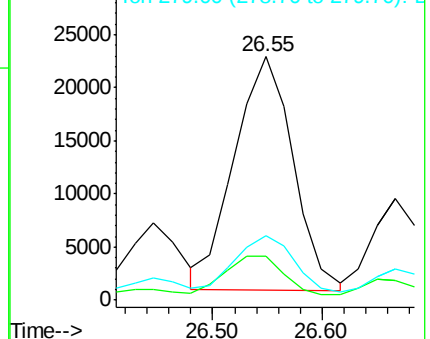
278 100

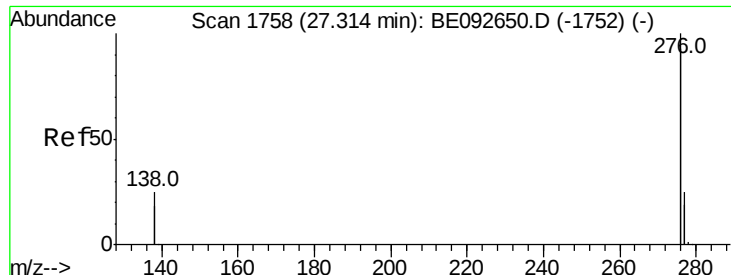
139 18.1 13.8 20.8

279 26.4 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(a,h,i)perylene

Concen: 18.56 ng

RT: 27.31 min Scan# 1758

Delta R.T. 0.00 min

Lab File: BE092678.D

Acq: 24 Jan 2017 22:57

Instrument :

BNA_E

ClientSampleId :

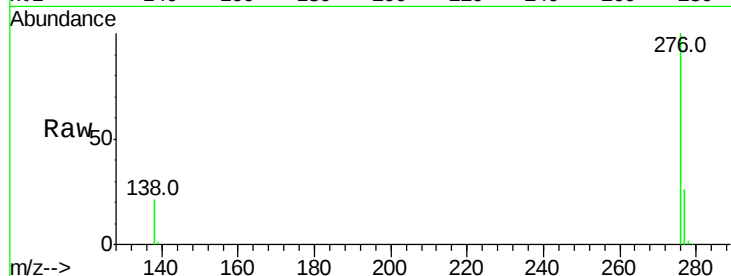
Tot Ion:276 Resp: 1532663

Ion Ratio Lower Upper

276 100

277 25.8 19.8 29.8

138 21.4 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

