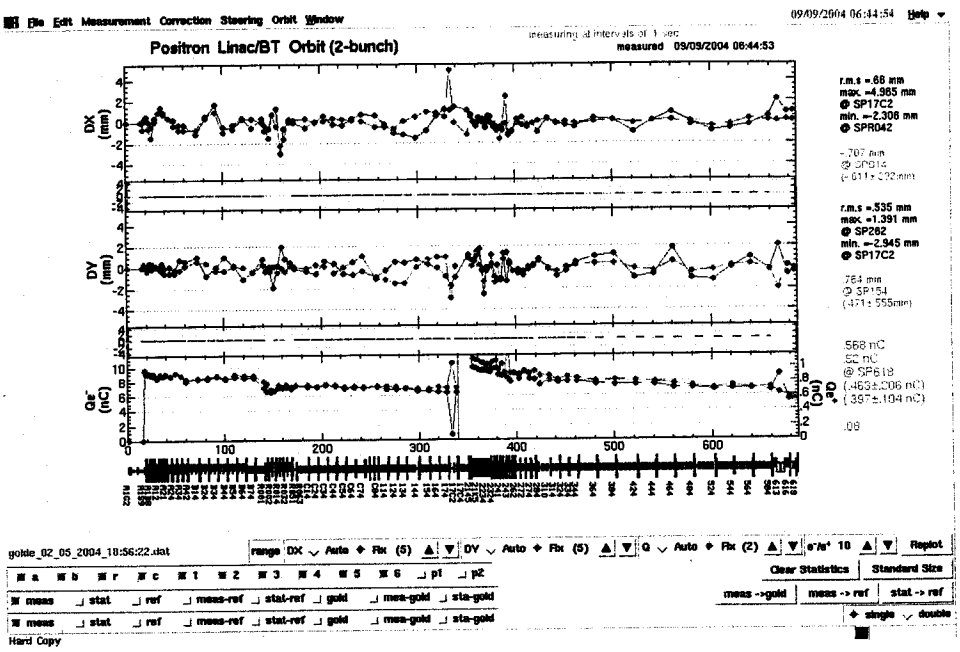
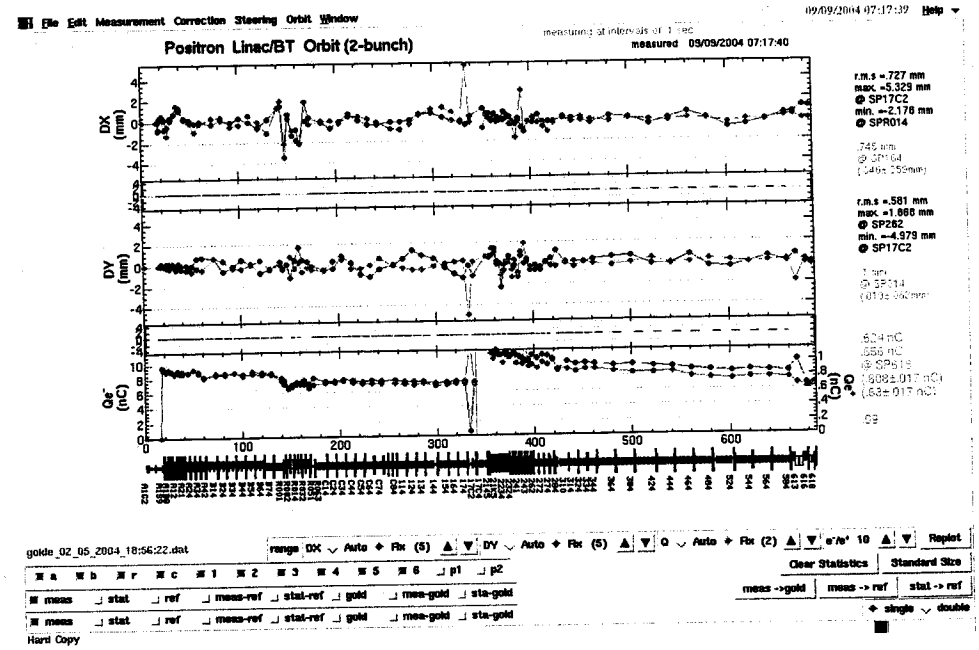
6:44 切り替え直後（ほぼ再現している）

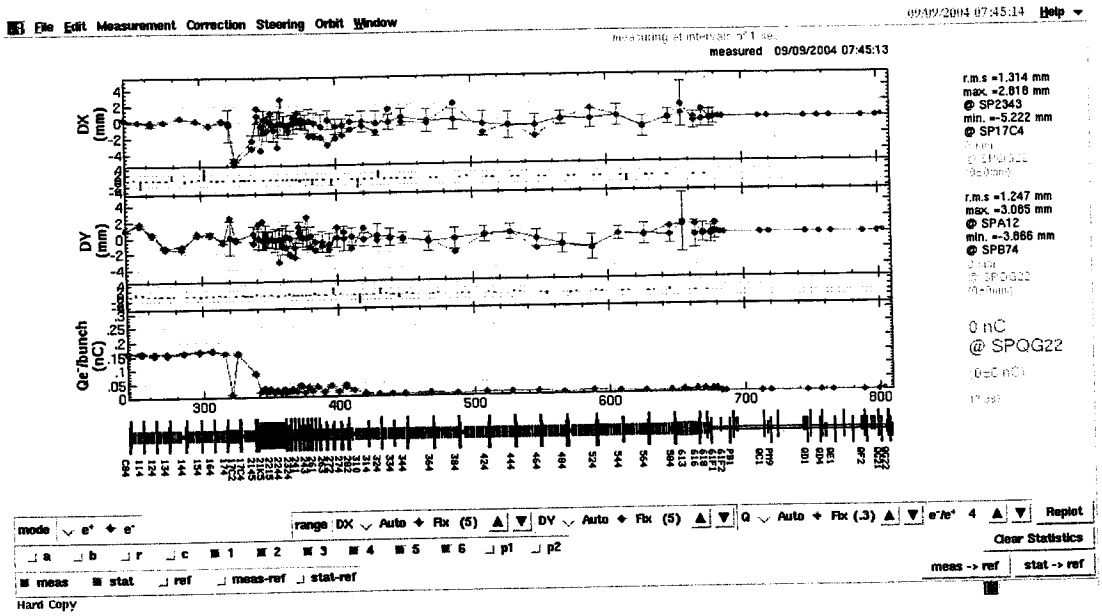


STC 調整後.

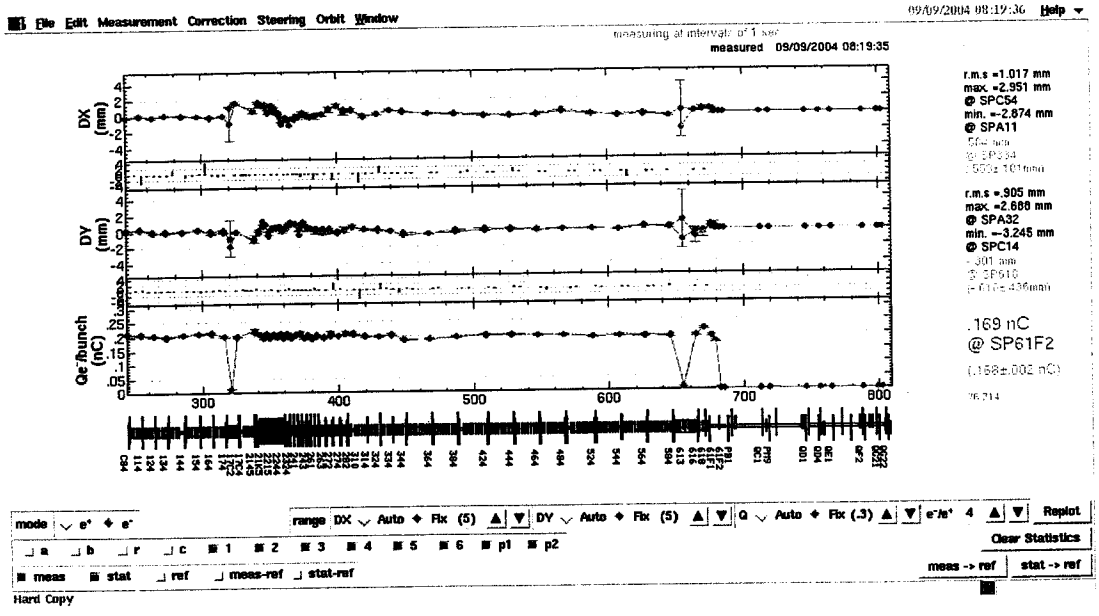


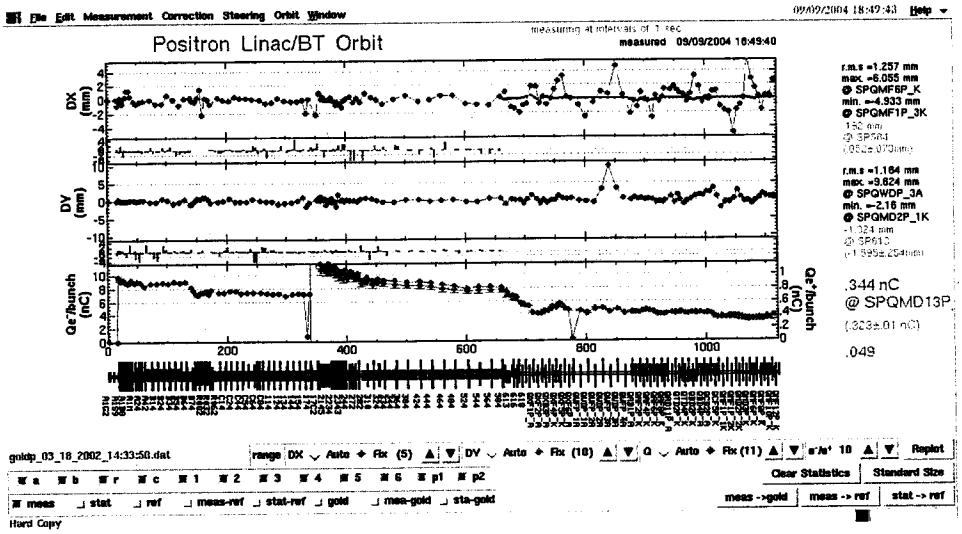
7:38 $e^+ \rightarrow$ PF e^- 切替え

7:45 PF 切り替え直後.



8:19 STC 調整後

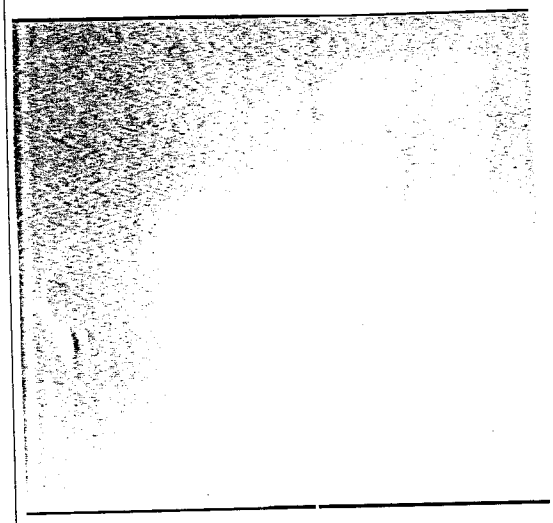


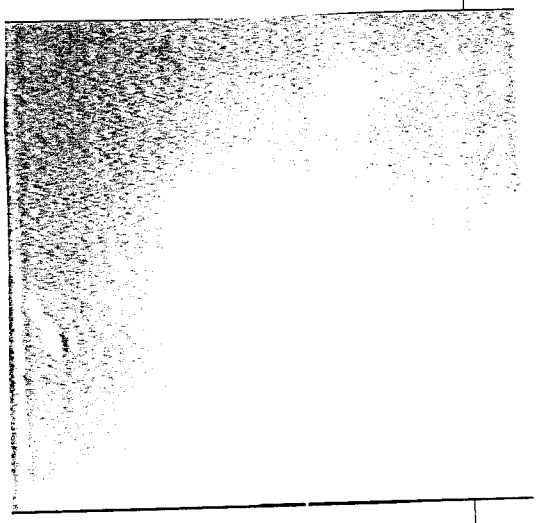

File Edit Measurement Correction Steering Orbit Window
09/09/2004 16:49:43 Help
measuring at intervals of 1 sec
Positron Linac/BT Orbit
measured 09/09/2004 16:49:40
DX (mm)
DY (mm)
Qe-/bunch (nC)
Qe+/bunch (nC)
200
400
600
800
1000
r.m.s =1.257 mm
max. =6.055 mm
@ SPQMF8P_1K
min. =-4.933 mm
@ SPQMF1P_3K
r.m.s =1.164 mm
max. =9.824 mm
@ SPQWDP_3A
min. =-2.16 mm
@ SPQMD2P_1K
.344 nC
@ SPQMD13P
.049
goldp_03_18_2002_14:33:50.dat
range DX Auto Fix (5) DY Auto Fix (18) Q Auto Fix (11) s'/s' 18 Replot
a b r c 1 2 3 4 5 6 p1 p2
Clear Statistics Standard Size
meas stat ref meas-ref stat-ref gold mea-gold sta-gold
meas ->gold meas -> ref stat -> ref
Hard Copy

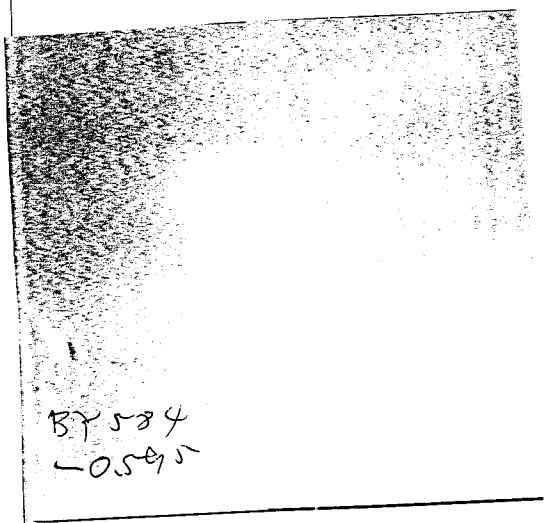
ECS aperture survey '04.9.14 (菊)

BY584 を振って Vertical aperture を調べる

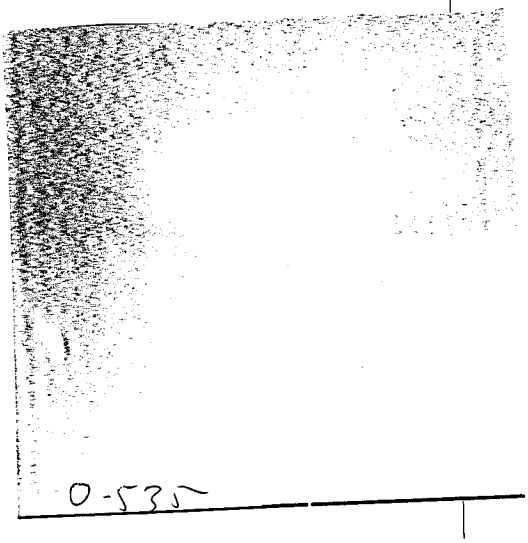
SCreen 616 の像をみる





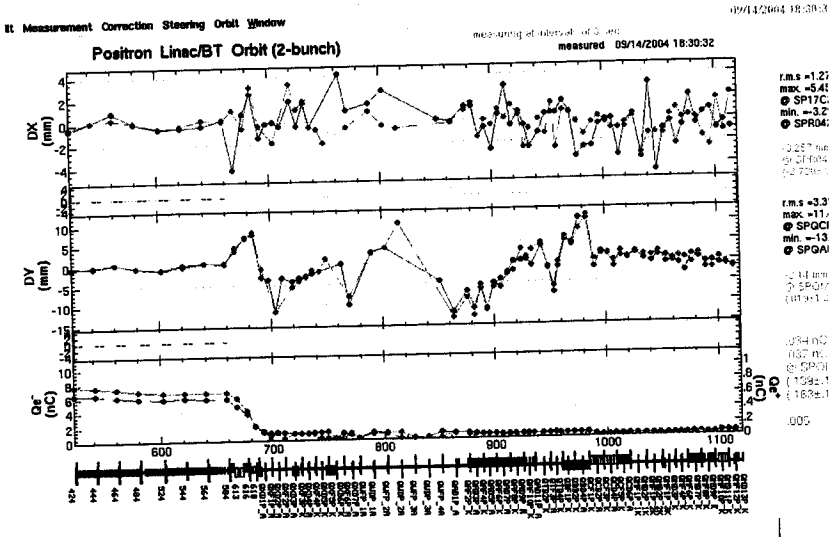


BY584
-0.5mr

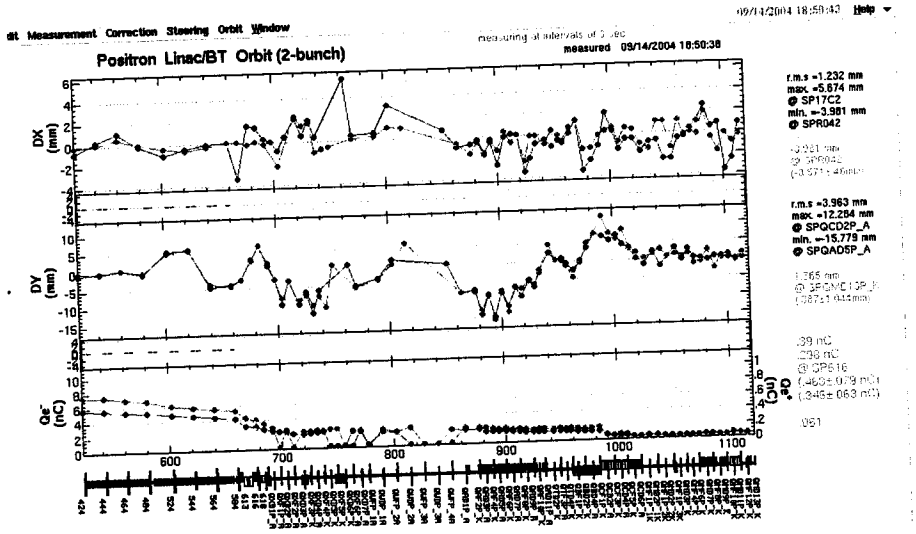


0.5mr

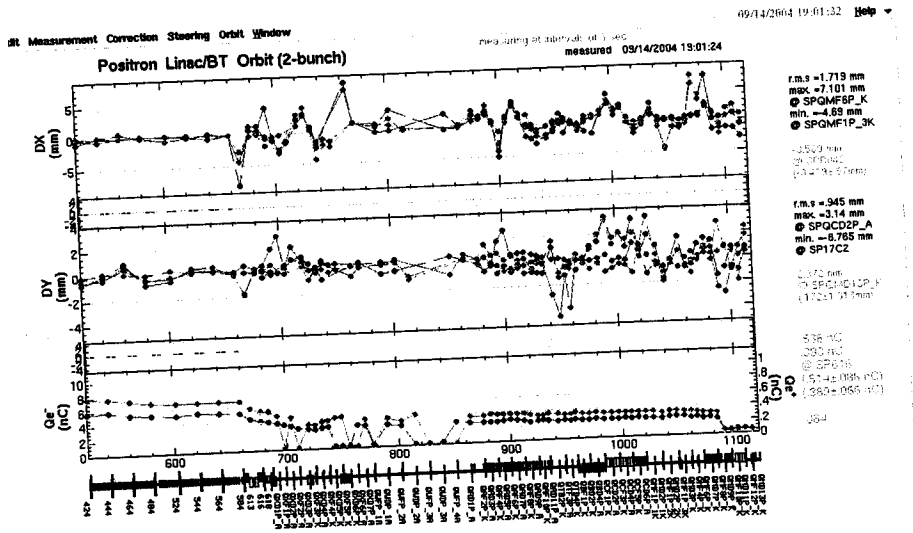
⇨
BY584 を
振ったときの
Orbit

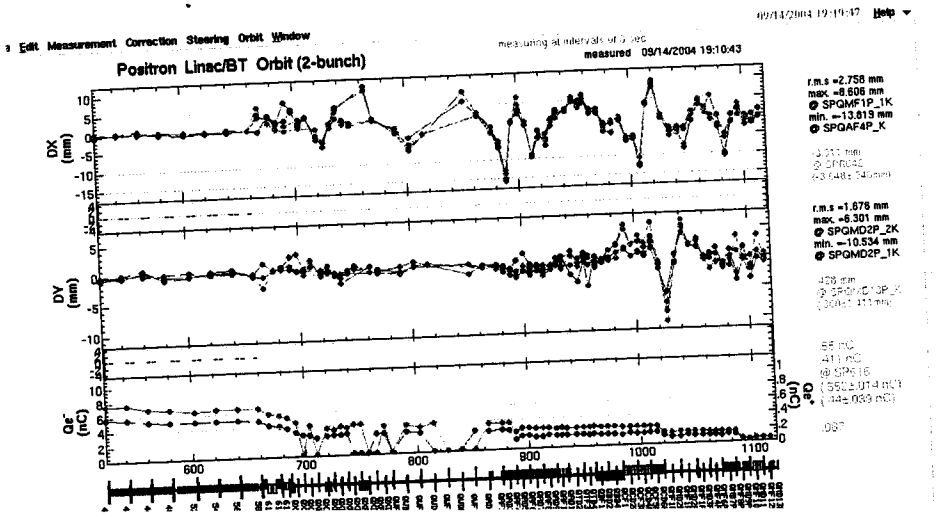


BY484 でも振ってみた.



ECS は horizontal bump を立てて aperture をみる



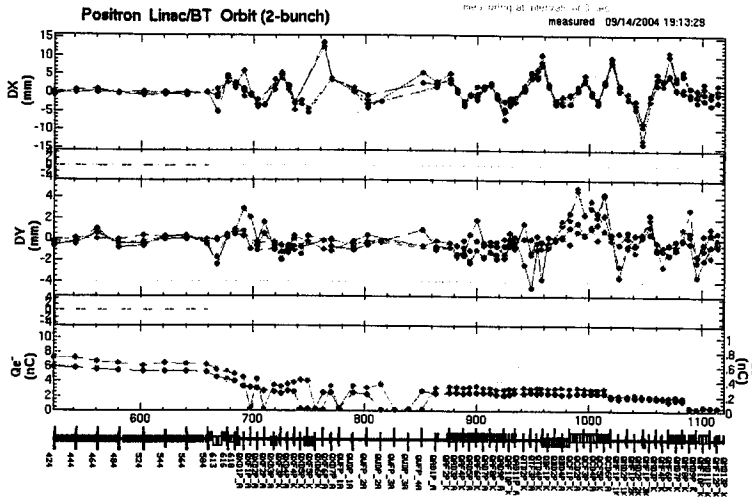


Edit Measurement Correction Steering Orbit Window

09/14/2004 19:13:31 Help

Positron Linac/BT Orbit (2-bunch)

measured 09/14/2004 19:13:28

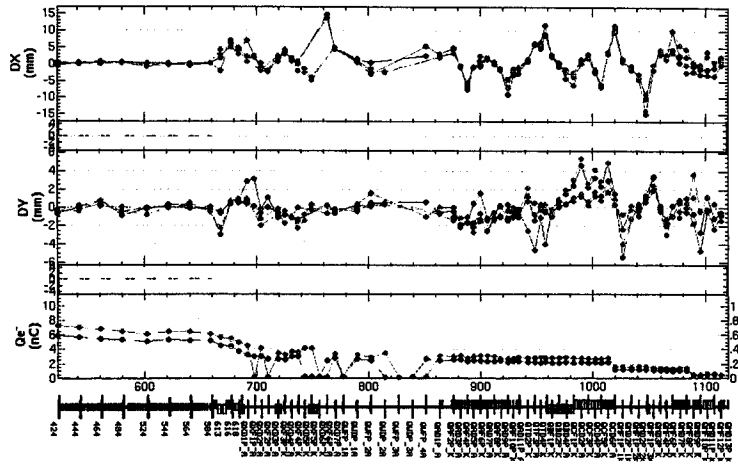


Edit Measurement Correction Steering Orbit Window

09/14/2004 19:20:44 Help

Positron Linac/BT Orbit (2-bunch)

measured 09/14/2004 19:20:43

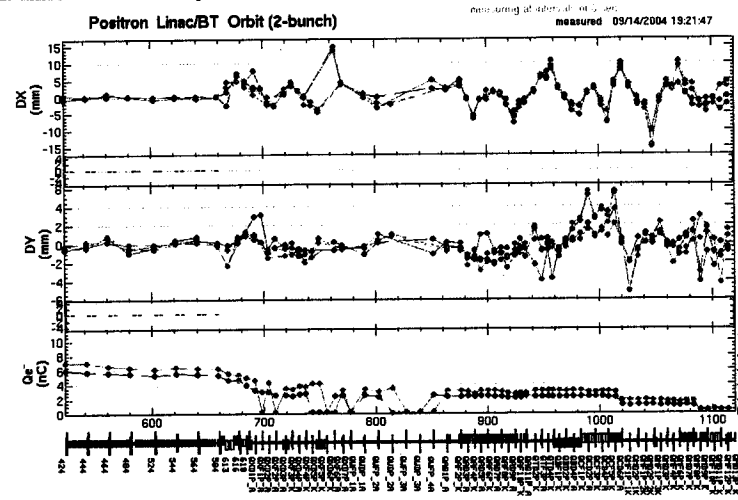


Edit Measurement Correction Steering Orbit Window

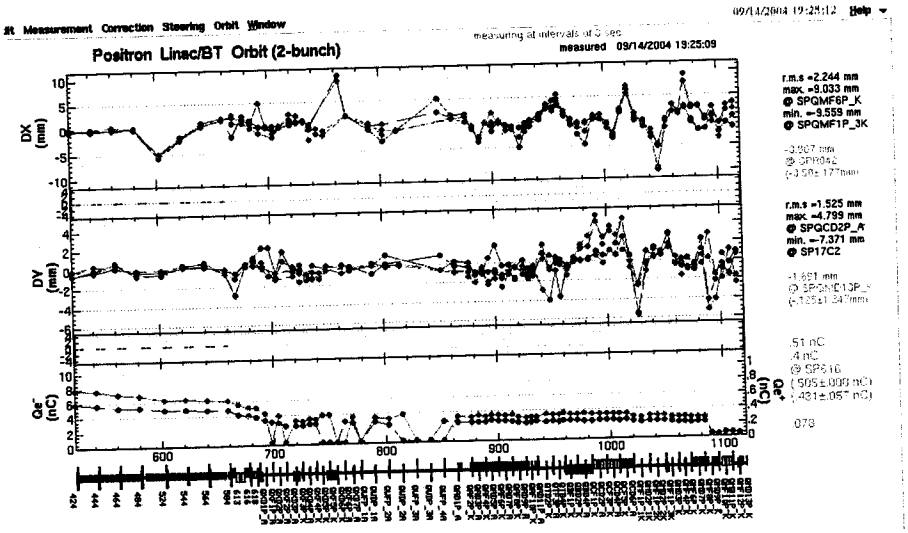
09/14/2004 19:21:49 Help

Positron Linac/BT Orbit (2-bunch)

measured 09/14/2004 19:21:47



BX484 を振って ECS 入口に Offset をつけてみる



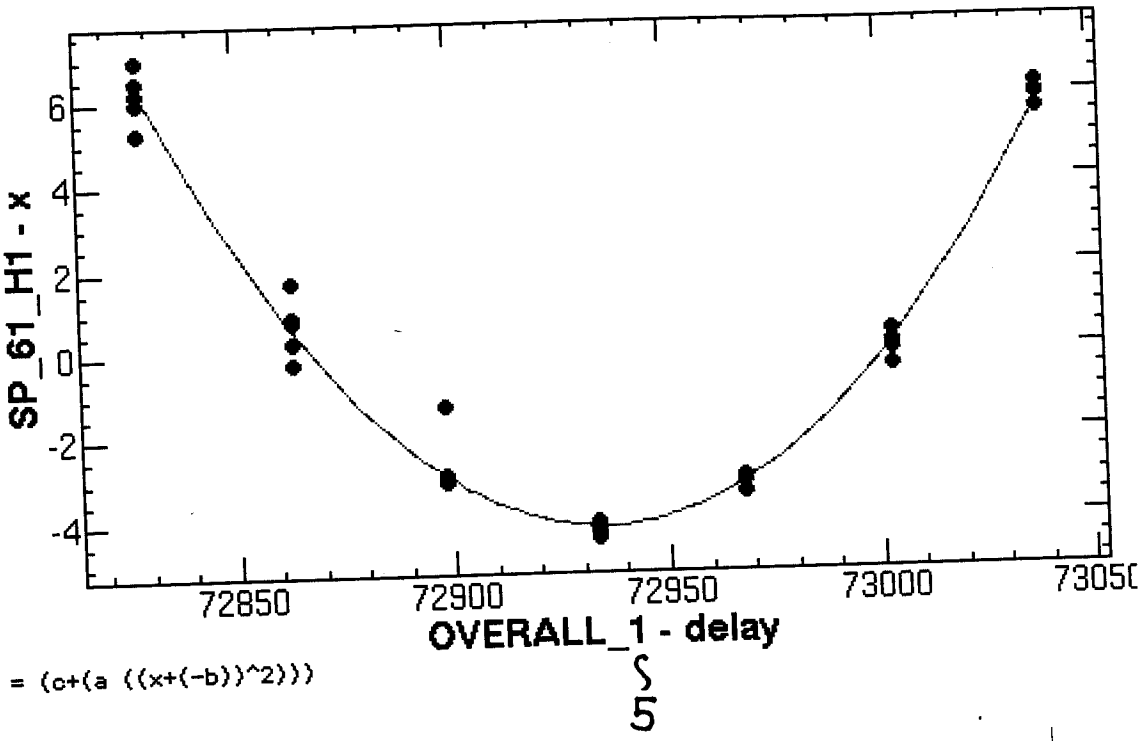
結論

Vertical, Horizontal 共 aperture はある.

File Edit Window 09/16/2004 10:22:06

ChiSquare = 7.83456 Goodness = .46621

a = 9.23E-4 +/- 2.07E-5 b = 72934.6 +/- .68603 c = -4.1651 +/- .13015



Function = (c+(a ((x+(-b))^2)))

5

9/16 (木) 14:33

ナスラ BPM 電磁較正 (スリナ, ほか)

both e beam を 作ってみて見よ. Ecs magnet off

BS-61-1 0.002 → −1.175 A.

	single shot	20回平均	factor single	factor ave.
		0.97	1	
sp-58-4	1.046 mC		0.932	
sp-616	0.925	0.909	0.919	
sp-618	0.962	0.958	0.967	
sp-61 H1	1.012	0.941	0.876	
sp-61 H2	0.916	0.832		

	ハイアス電圧	0.9 A →	0.2 mC
			1
sp-58-4	0.21	0.197	0.933
sp 616	0.196	0.188	0.962
sp 618	0.202	0.191	0.986
sp 61 H1	0.209	0.198	0.890
sp 61 H2	0.187	0.183	

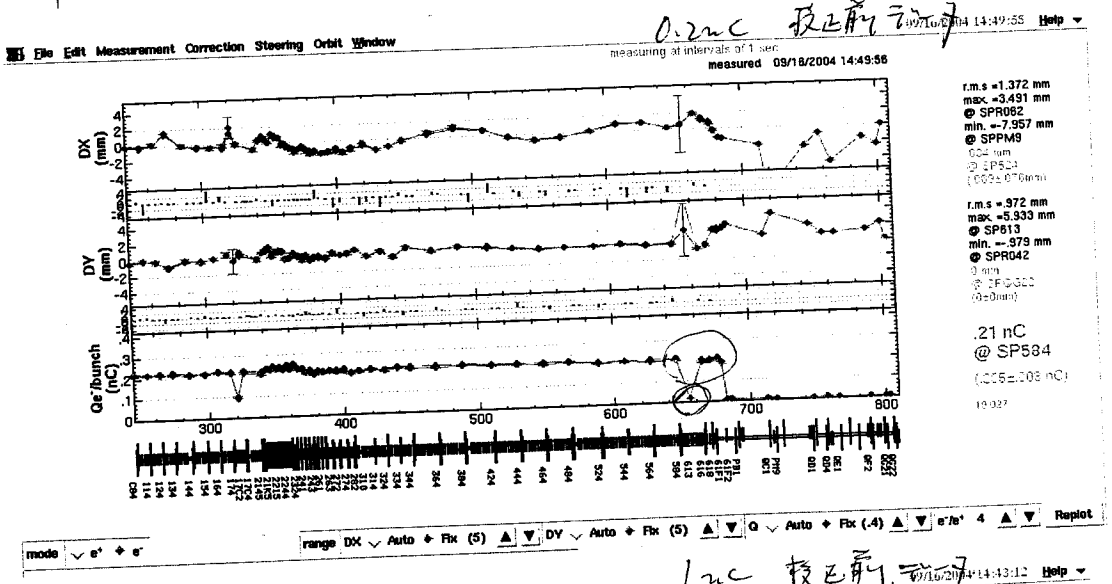
0.2nC Sp data 5回 Average

SP584	0.206	1	1
SP616	0.197	0.956	1.046
SP618	0.200	0.971	1.0298
SP61F1	0.206	1	1
SP61F2	0.183	0.888	1.126

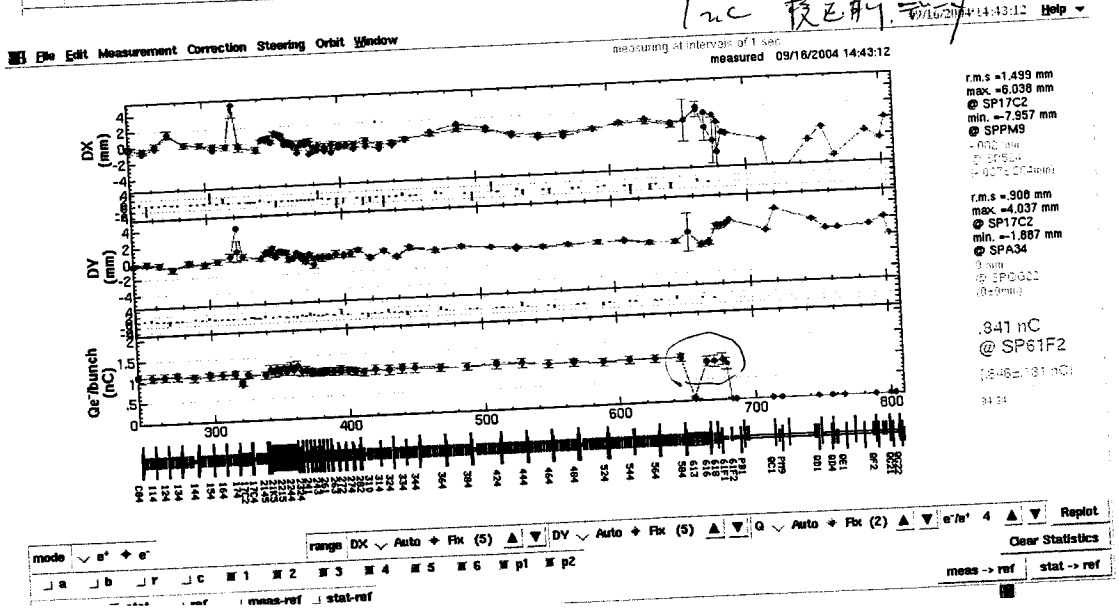
Overall Timing. @ SP616 ← フィードバック OFF

0	0.194nC
+1	0.199nC
+2	0.194nC
+3	0.0102nC
−1	0.143nC
−2	0.126nC

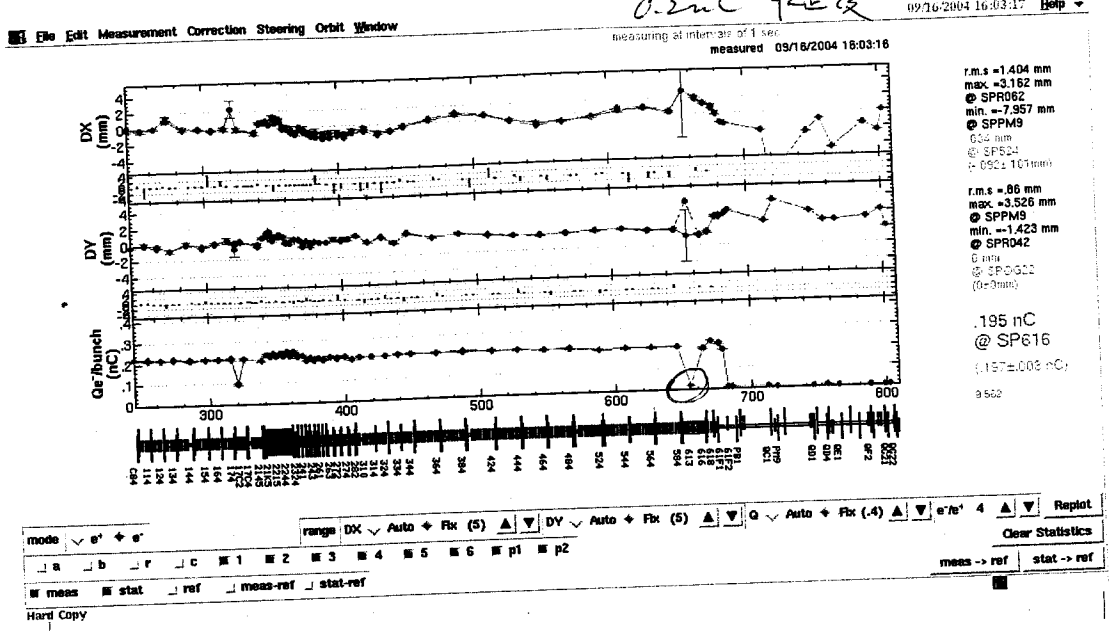
0.2nC 収束前データ



1nC 収束前データ



0.2nC 校正後



1nC 校正後