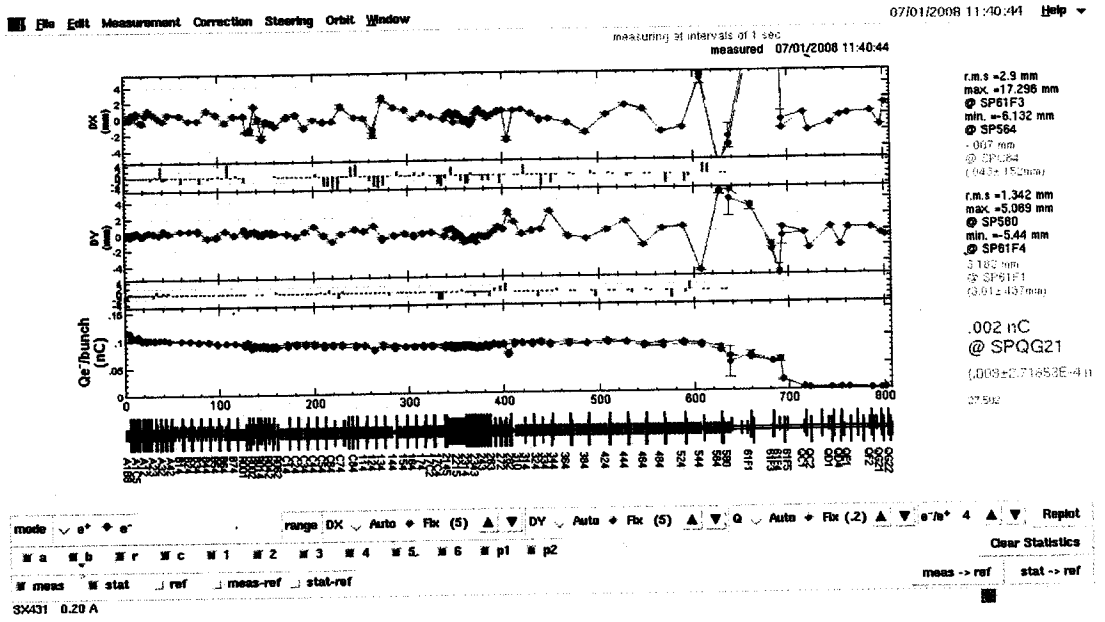
1

2008.7.1

pf/KEKB 同時入射 スタディ　　紙谷、大西、古川、小川、菊地、飯田

孔あき Target を通す

・ビームを PF(AI)用に切り替え。 ST は 8GeV用と同じもの



0.088

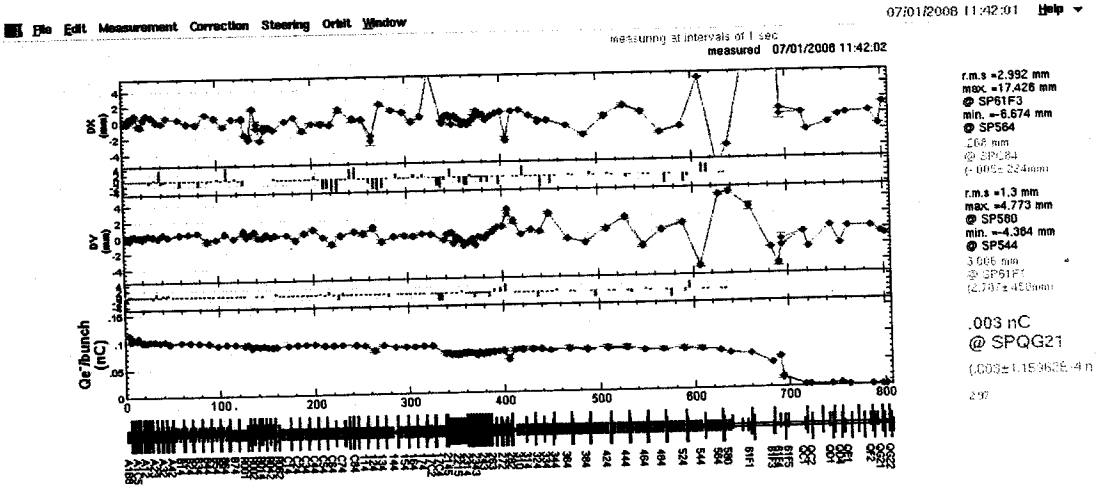
Beam 0.087

Bump 0.076

Gun 0.058

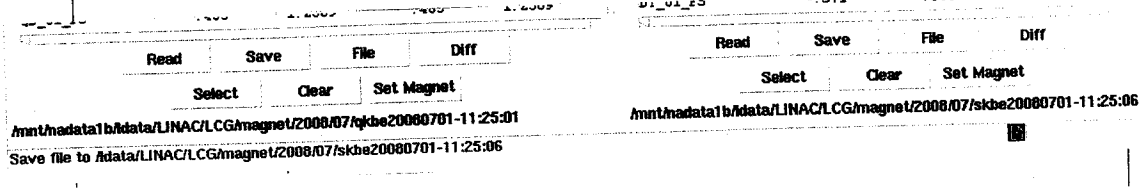
Q = 0.087nC

Bump ON

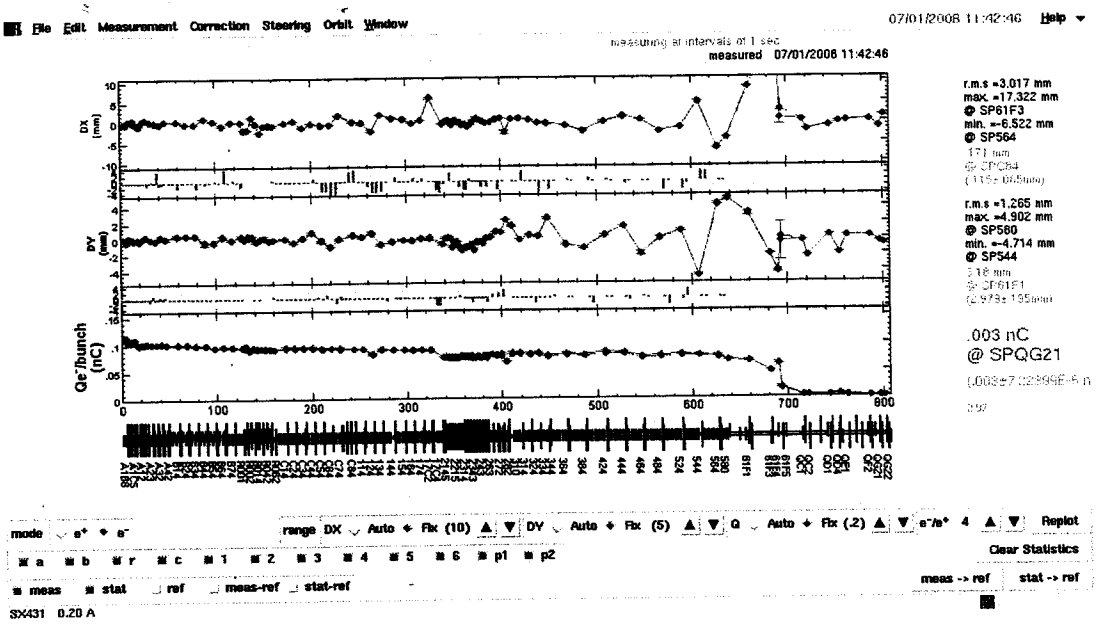


Q = 0.076nC

ステアリング設定値 Inc 8GeVビームで調整したもの

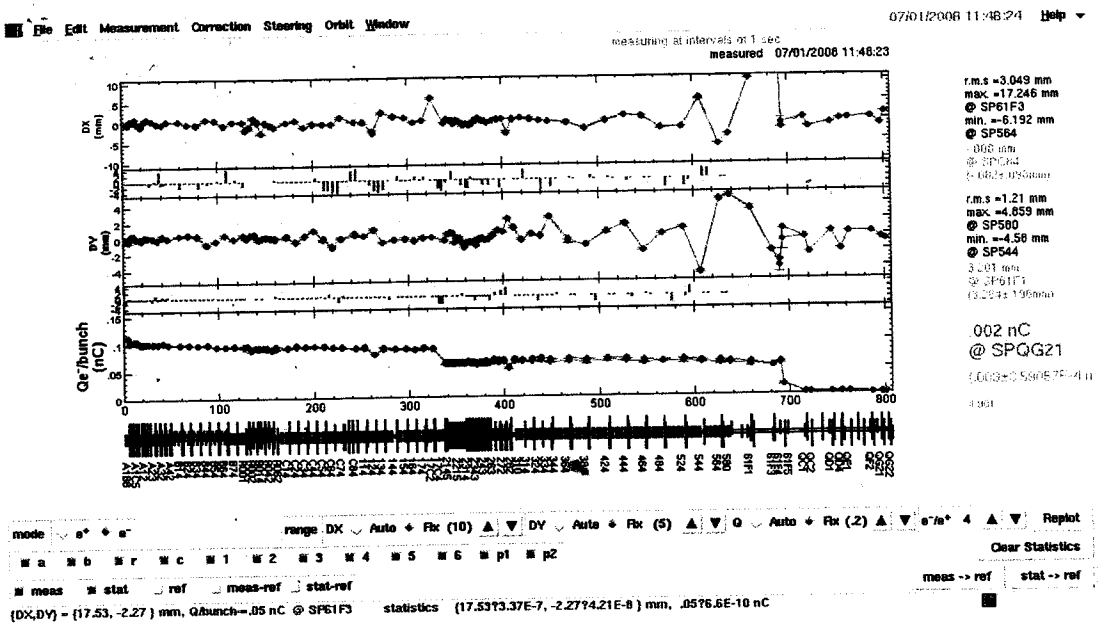


同じく ~~QFIGA~~ Bump ON (縦のレニンのみ書う)



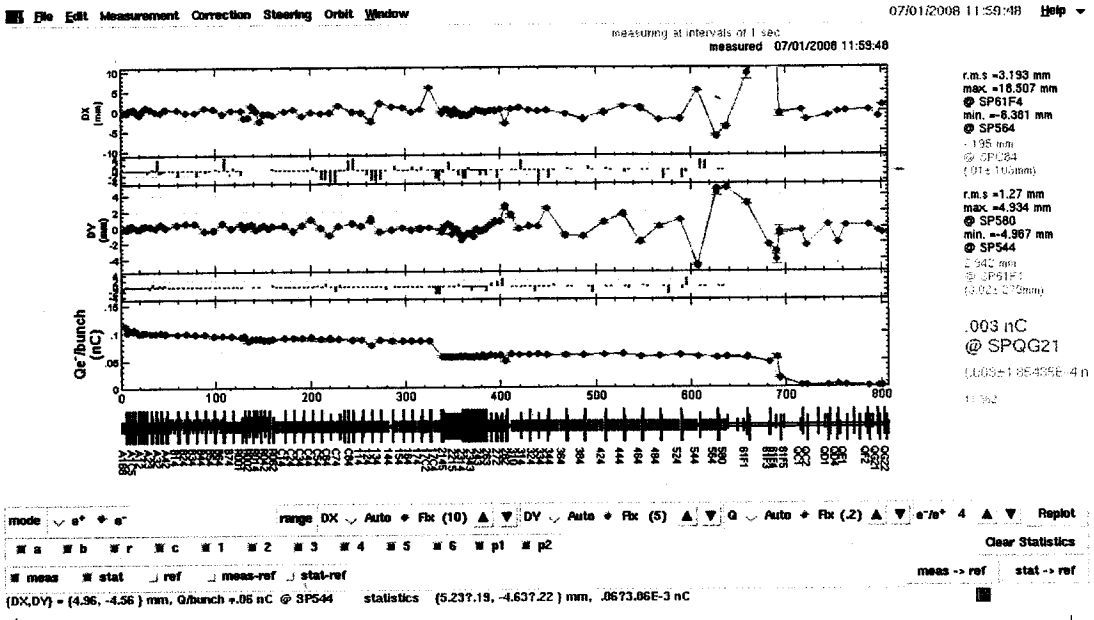
Q=0.058nC

Bump ON Q ダウト IN



Q=0.058nC

PX inc	Q 2k5
8.0	0.051
8.2	0.055
8.4	0.061 ~0.059
8.6	0.057
8.8	0.056
9.0	0.056
平均 8.5	0.058



13:40 pf 3セクター以降 軌道補正.

12:00 A1-GUN Grid emission 問題 (5mA)

A1-Gun modulator の Timing ずらした

3μsec ずらすと スクリーンで いなかった..

バンチャーの後3 ~~8~~

(A1-B8)

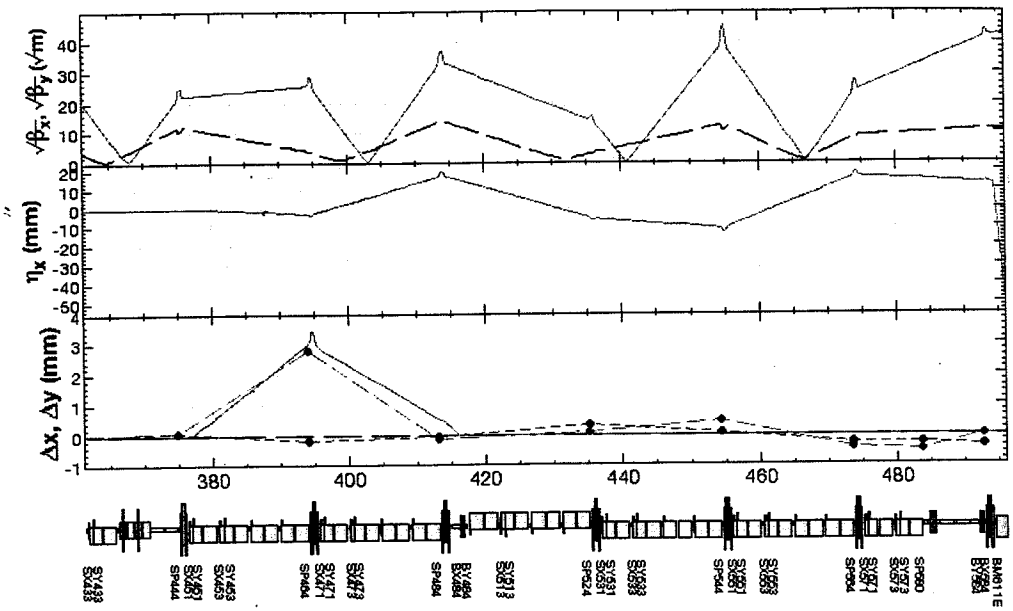
LINAC G1-H1 でも見えなかった. OK!!

13:45 4.5セクター Bump 作り.

SP464

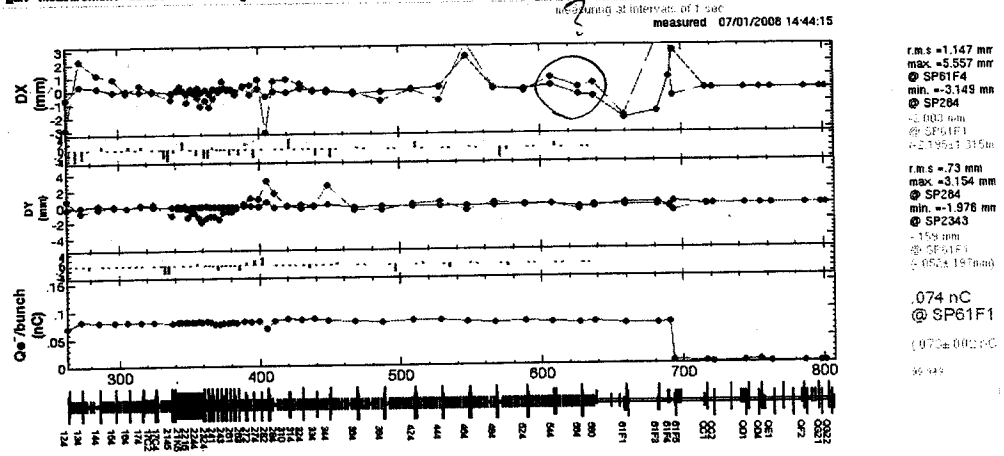
X

File Edit Window 07/01/2008 14:43:51 Help



Read Optics	Mode		Read steering	SX451	(mrad)	-.168	I(A)	2.099	ΔI(A)	2.700	AF	1.111
s1(m) 360	target	SP464	Save steering	SX471	(mrad)	-.086	I(A)	-.499	ΔI(A)	0.500	AF	6.000
s2(m) 500	end	SP524	Calc AFX	BX484	(mrad)	-.193	I(A)	.387	ΔI(A)	0.288	AF	10.417
Set ref	Horizontal		Calc AFY									
Clear ref	Bump (mm)	3	Set steering X									
Plot orbit	Calc		SP464									
	Vertical		SP524									
	Bump (mm)	0										
	Calc											

Edit Measurement Correction Steering Orbit Window 07/01/2008 14:44:17



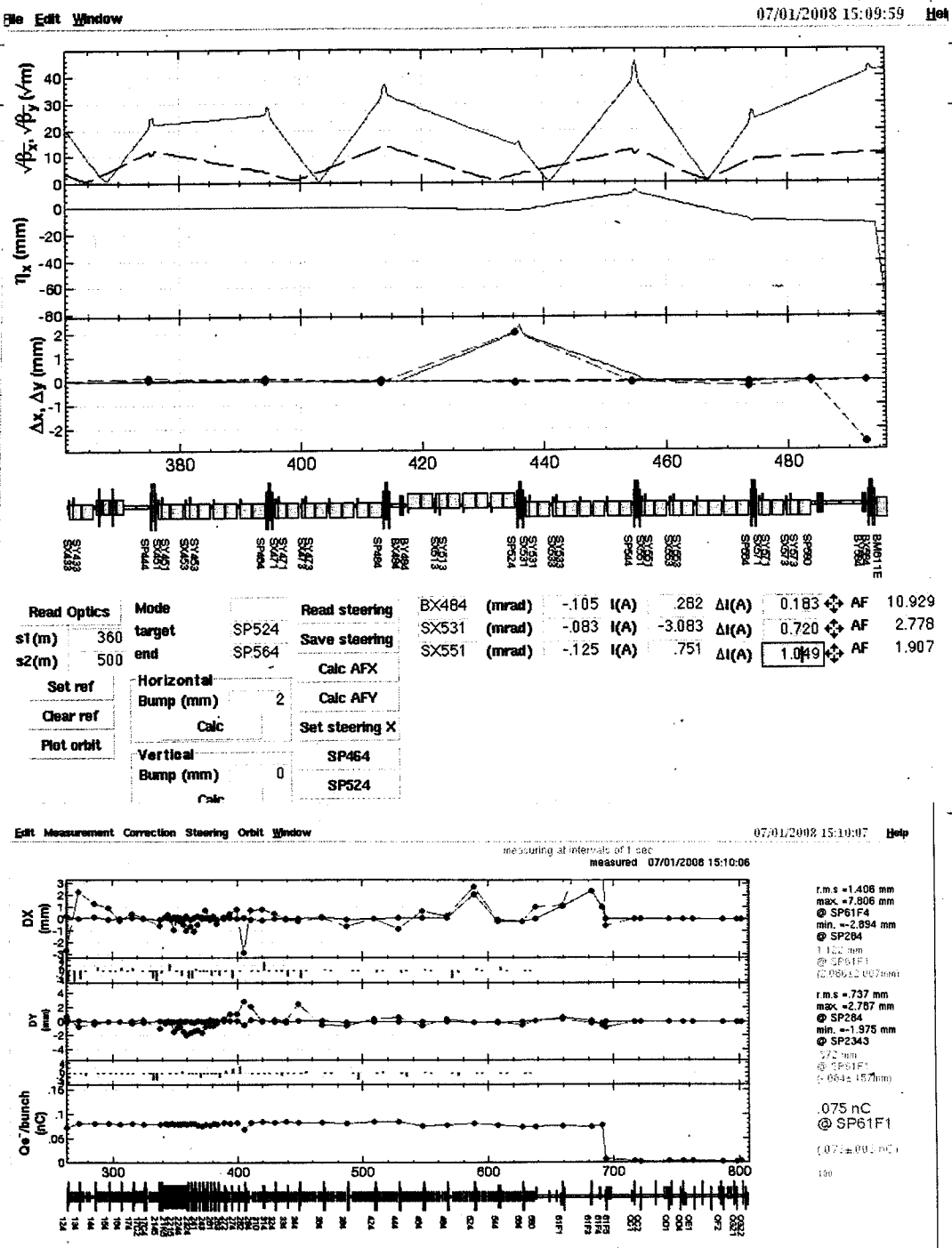
バンプが、~~消えない~~
1度閉じて、また出てくる。

謎だが、次に進む。

5

SP524

X



15:30

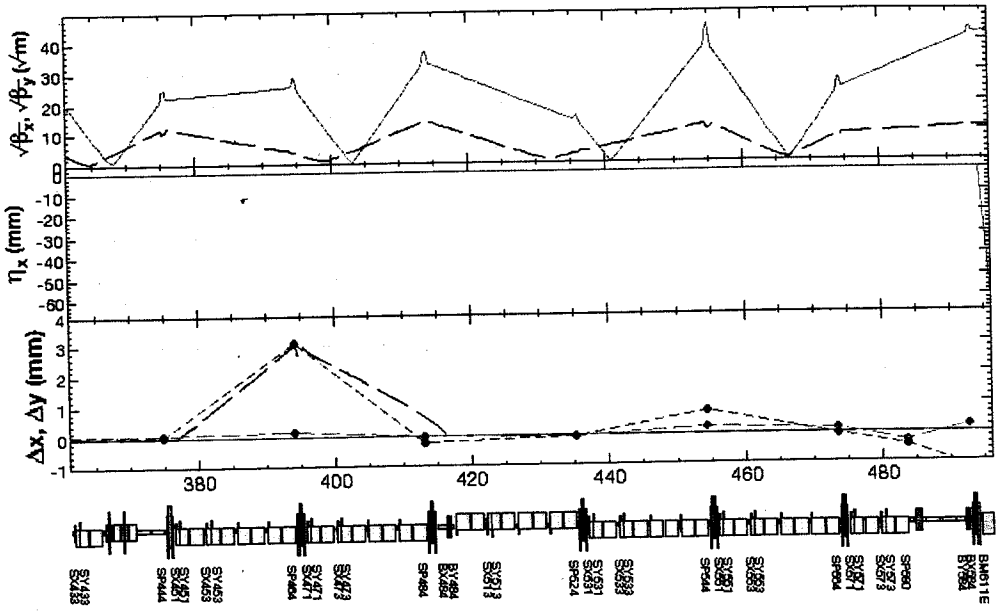
SP334 の Quad-BPM

ソフトが動かず. 延期.

SP464

Y

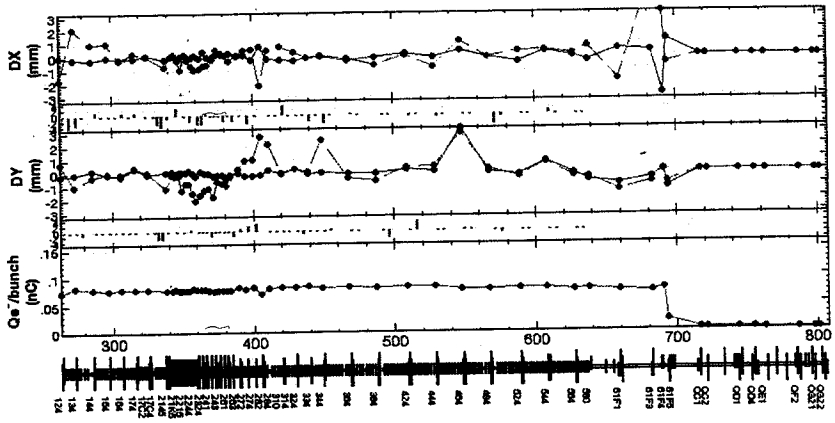
File Edit Window 07/01/2008 16:16:47 Hel



Read Optics	Mode		Read steering	SX451	(mrad)	.000	I(A)	-.600	ΔI(A)	0.000	AF	1.111
s1(m) 360	target	SP464	Save steering	SX471	(mrad)	.000	I(A)	-1.000	ΔI(A)	0.000	AF	6.000
s2(m) 500	end	SP524	Calc AFX	BX484	(mrad)	.000	I(A)	.099	ΔI(A)	0.000	AF	10.417
Set ref	Horizontal		Calc AFY	SY451	(mrad)	-.168	I(A)	3.303	ΔI(A)	2.700	AF	1.111
Clear ref	Bump (mm)	0	Set steering X	SY471	(mrad)	-.096	I(A)	-.600	ΔI(A)	0.800	AF	3.750
Plot orbit	Calc		Set steering Y	BY484	(mrad)	-.199	I(A)	.267	ΔI(A)	0.298	AF	10.067
	Vertical		SP464									
	Bump (mm)	3	SP524									
	Calc											

Edit Measurement Correction Steering Orbit Window 07/01/2008 16:22:37 Help

measuring at intervals of 1 sec
measured 07/01/2008 16:22:37



r.m.s =.994 mm
max. =5.462 mm
@ SP61F3
min. =-2.181 mm
@ SP284
-1.776 mm
@ SP61F1
(=426±1491mm)

r.m.s =.626 mm
max. =2.913 mm
@ SP464
min. =-2.083 mm
@ SP2343
-1.433 mm
@ SP61F1
(=504±699mm)

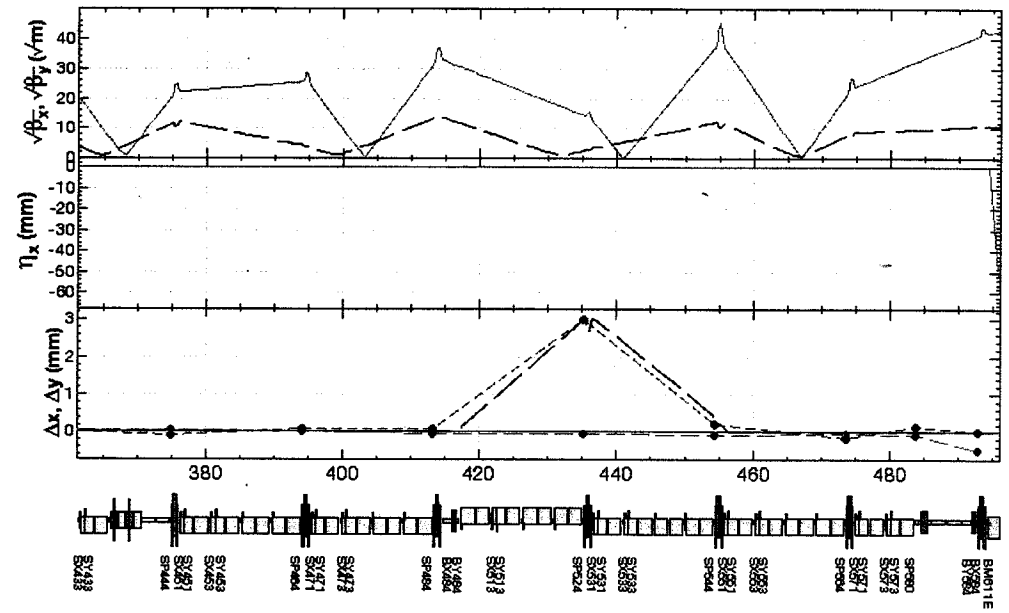
.074 nC
@ SP61F1

7

SP524

Y

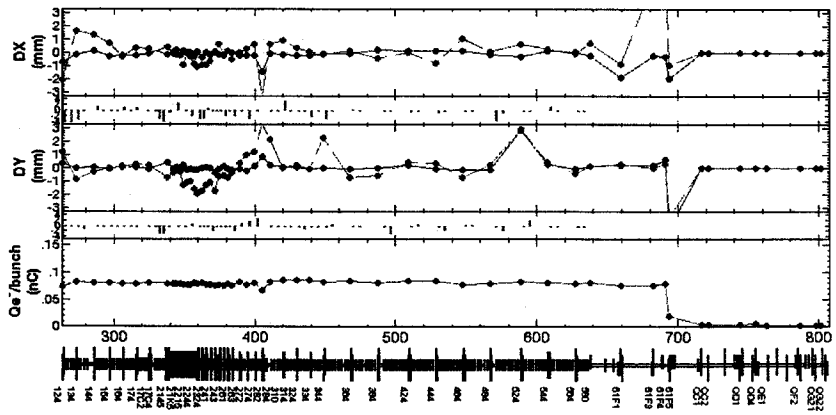
File Edit Window 07/01/2008 16:30:24 He



Read Optics	Mode		Read steering	BX484	(mrad)	.000	I(A)	.099	ΔI(A)	0.000	AF	10.929
s1(m) 360	target	SP524	Save steering	SX531	(mrad)	.000	I(A)	-3.803	ΔI(A)	0.000	AF	2.778
s2(m) 500	end	SP564	Calc AFX	SX551	(mrad)	.000	I(A)	-.299	ΔI(A)	0.000	AF	1.907
Set ref	Horizontal		Calc AFY	BY484	(mrad)	-.161	I(A)	.243	ΔI(A)	0.274	AF	10.949
Clear ref	Bump (mm)	0	Set steering X	SY531	(mrad)	.019	I(A)	-1.720	ΔI(A)	-0.720	AF	-4.167
Plot orbit	Calc		Set steering Y	SY551	(mrad)	-.193	I(A)	1.752	ΔI(A)	1.750	AF	1.714
	Vertical		SP464									
	Bump (mm)	3	SP524									
	Calc											

Edit Measurement Correction Steering Orbit Window 07/01/2008 16:30:34 Help

measuring at interval of 1 sec
measured 07/01/2008 16:30:36



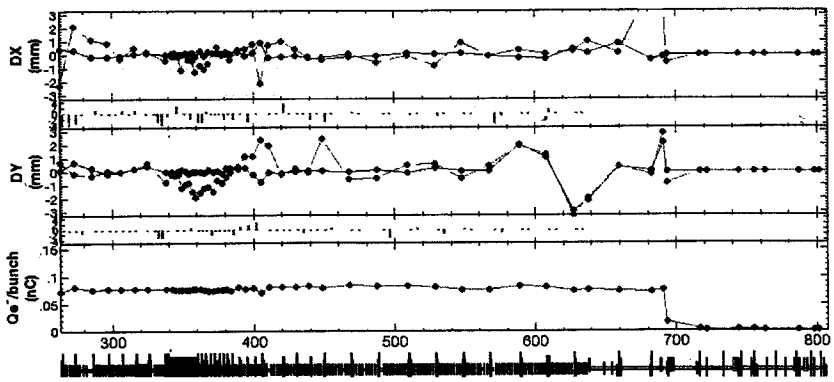
r.m.s =1.183 mm
max. =6.378 mm
@ SP61F4
min. =-3.485 mm
@ SP284

r.m.s =.916 mm
max. =3.364 mm
@ SP284
min. =-3.724 mm
@ SP61F5

.075 nC
@ SP61F1

Edit Measurement Correction Steering Orbit Window 07/01/2008 16:45:07 Help

measuring at interval of 1 sec
measured 07/01/2008 16:45:09



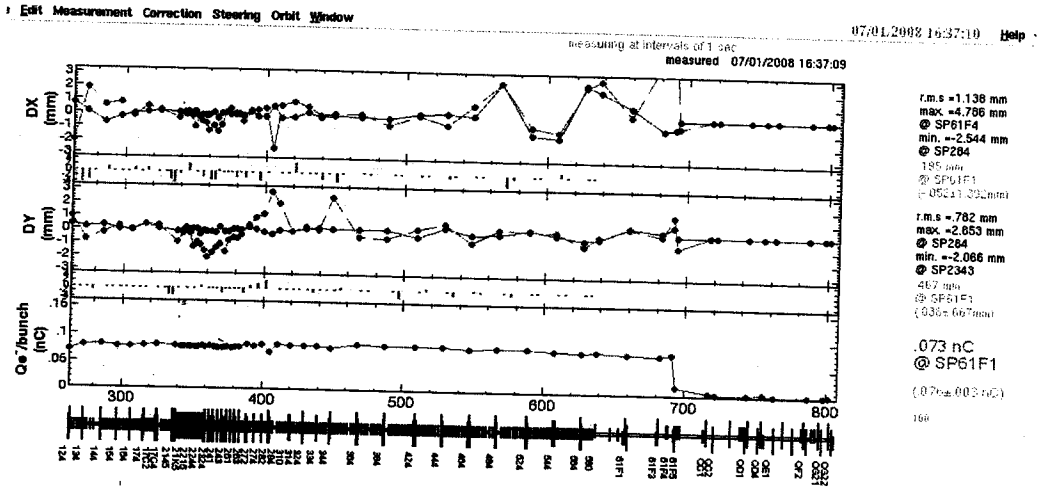
r.m.s =1.085 mm
max. =5.315 mm
@ SP61F4
min. =-2.312 mm
@ SP124

r.m.s =.902 mm
max. =2.647 mm
@ SP61F4
min. =-3.339 mm
@ SP564

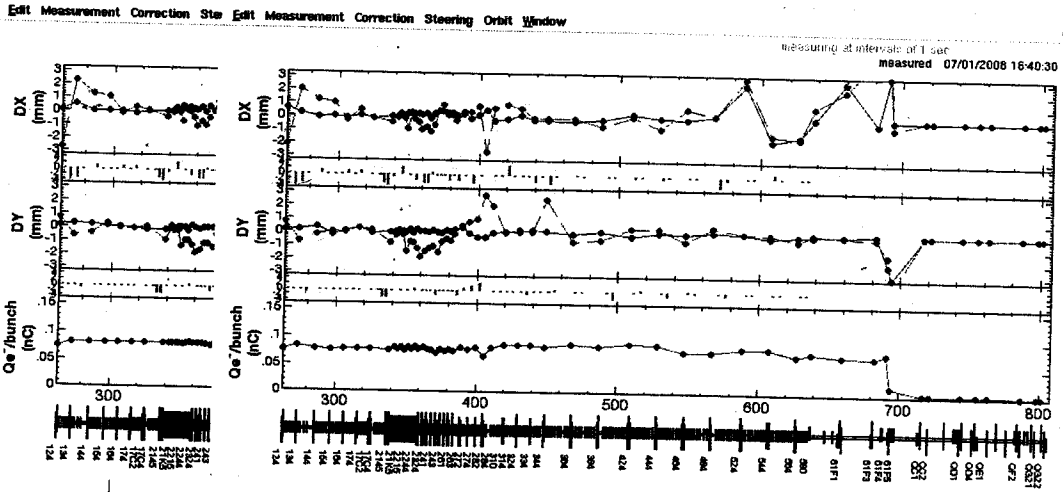
.073 nC
@ SP61F1

BY484
+0.2A

16:35	SX471 single kick	± 2 A.
16:40	BX484 "	± 0.2 A
16:43	SY471 "	± 2 A
16:45	BY484 "	± 0.2 A.

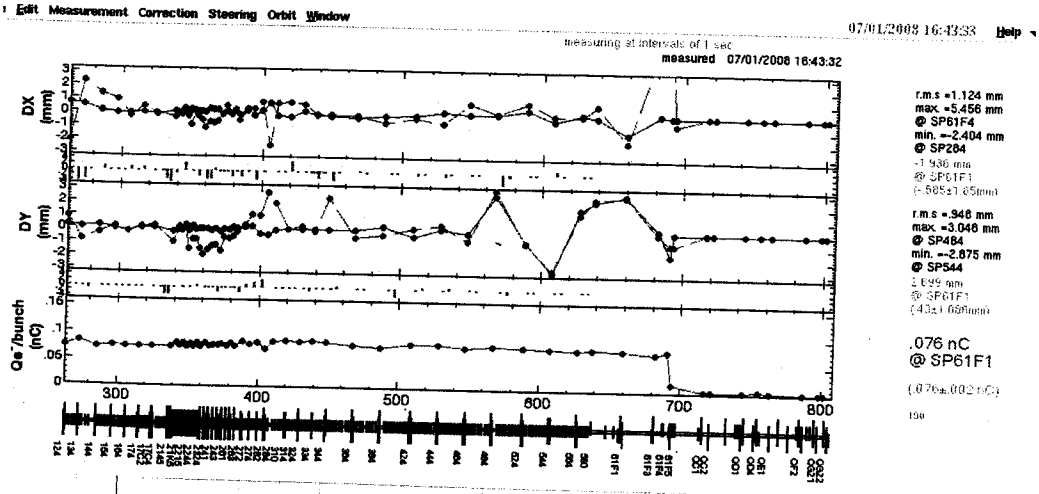


SX471 +2A



SX471 -2A

BX484 +0,2A

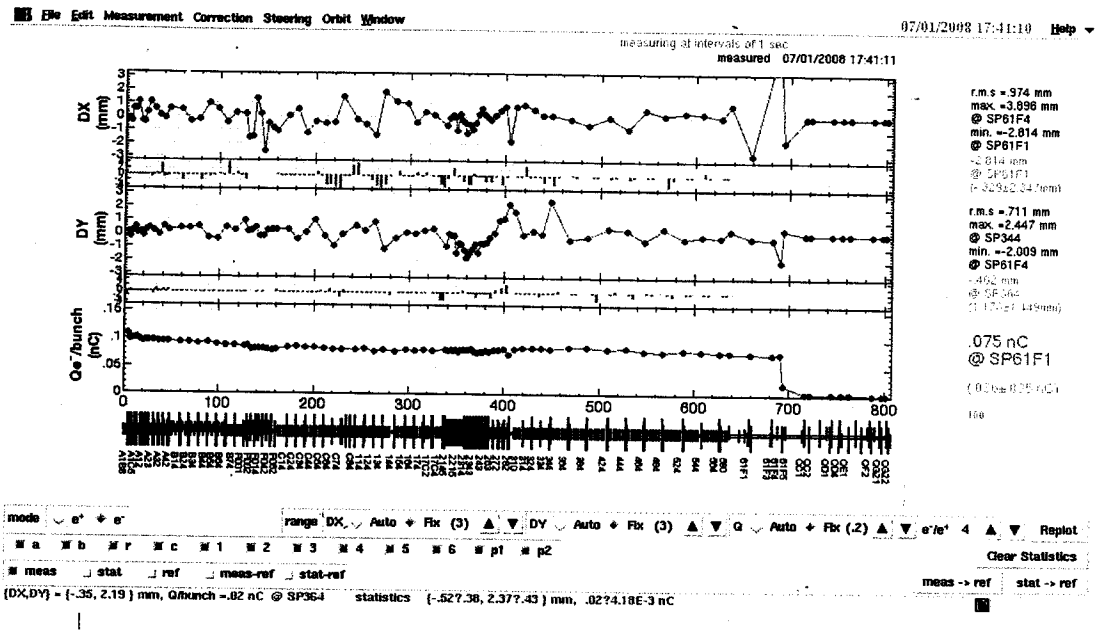


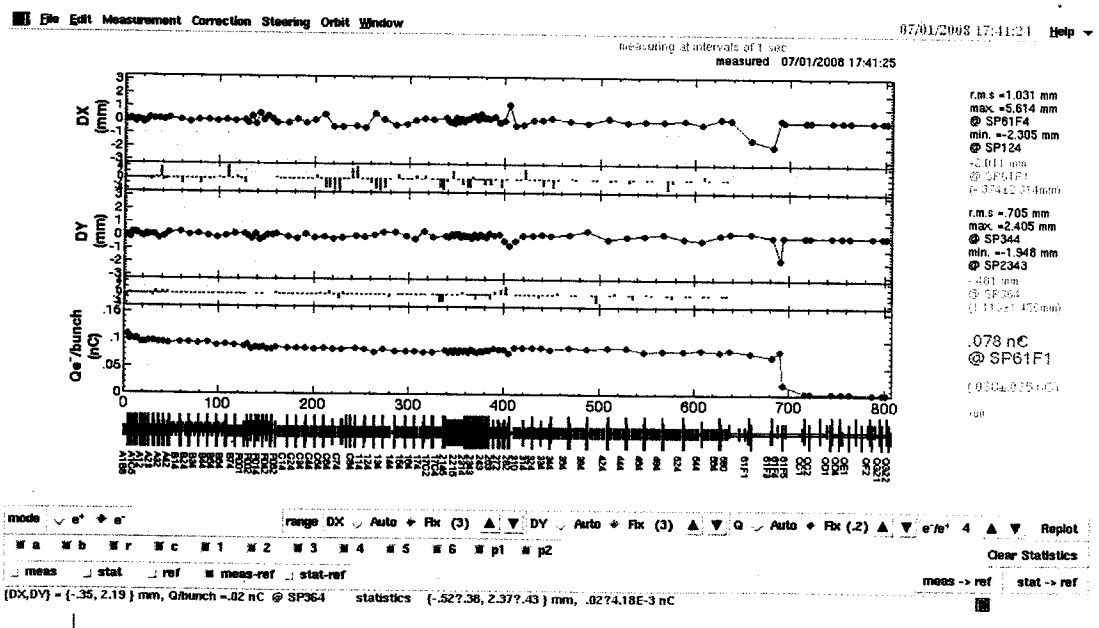
SY471 +2A

9

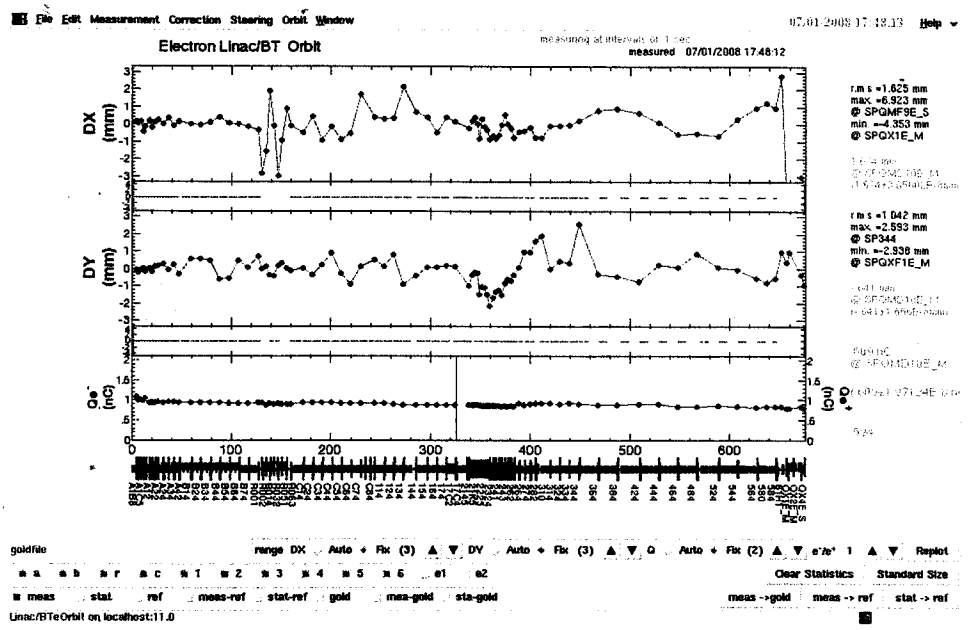
PF-AI ビームで軌道をある程度 ならした状態

17:41





KEKBビーム （ステアリングは先になるべくorbitを変えた状態）



KEKBビーム （PFAI用ST値をセットした状態）