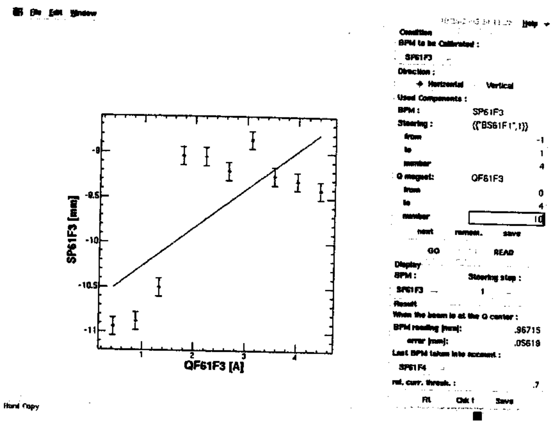
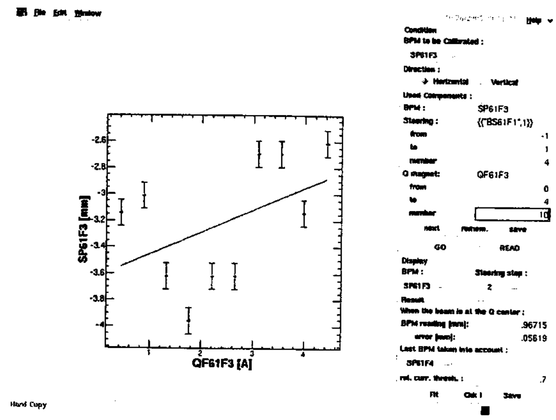
['05/10/26(水)] SP61_F3 (PF-BT 8極BPM) の Quad BPM (佐原)

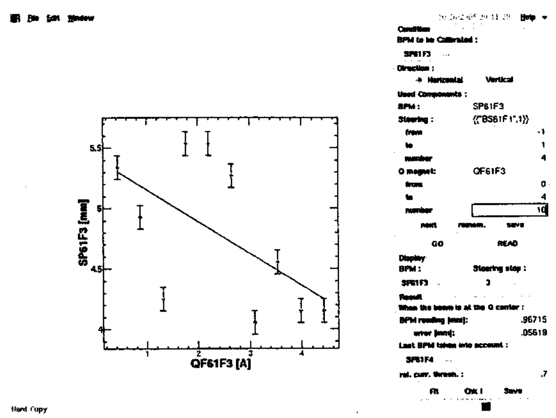
(準夜) (8)

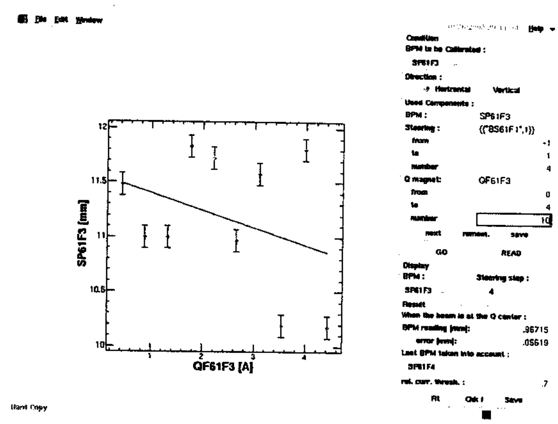
(注意) 「PF energy FB を Off すること!」

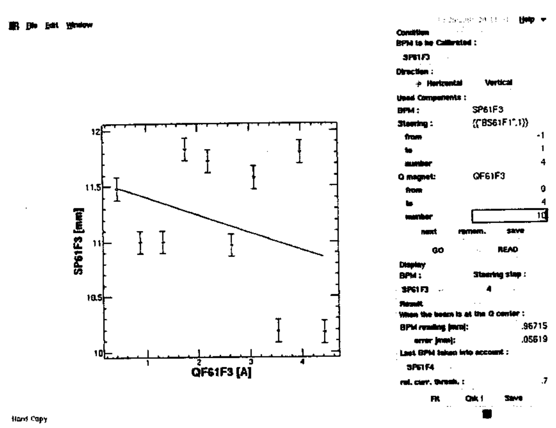
{ BS61F1
QF61F3

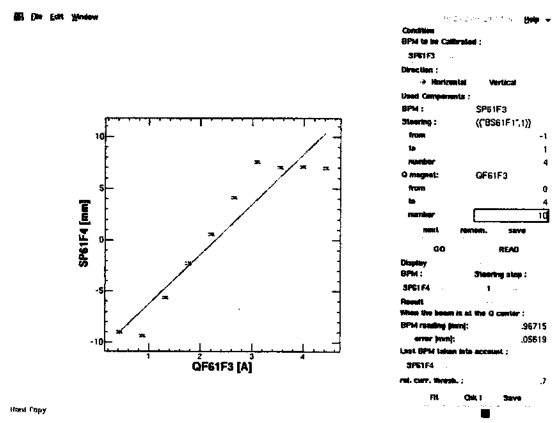




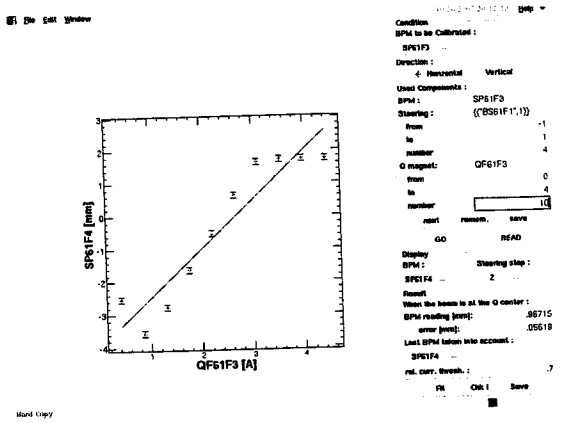




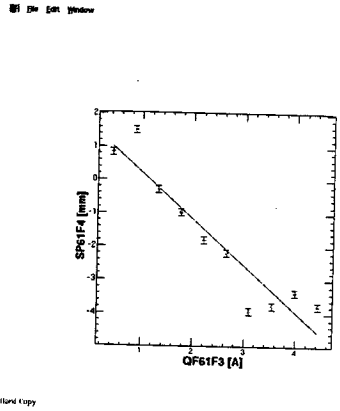


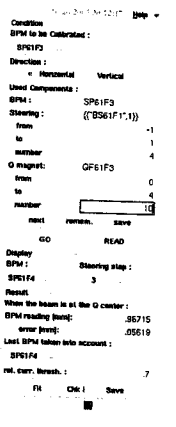


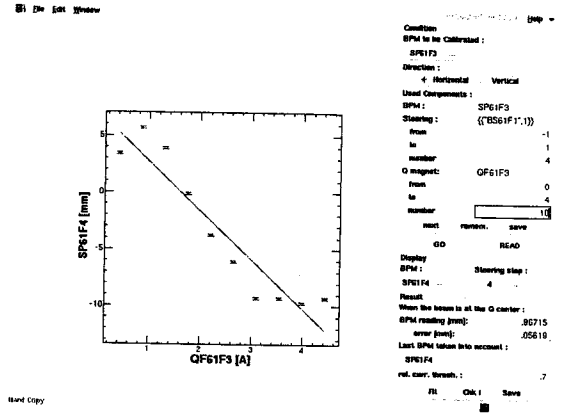
5 of 8


File Edit Window
SP61F4 [mm]
QF61F3 [A]
Hard Copy

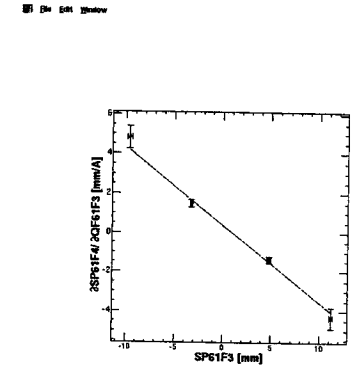
Condition
BPM to be Calibrated :
SP61F3
Direction :
Horizontal
Vertical
Used Components :
BPM : SP61F3
Steering : {{"BS61F1",1}}
from -1
to 1
number 4
Q magnet: QF61F3
from 0
to 4
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 2
Result
When the beam is at the Q center :
BPM reading [mm]: .96715
error [mm]: .05619
Last BPM taken into account :
SP61F4
rel. corr. thresh. : .7
Fit Chk I Save

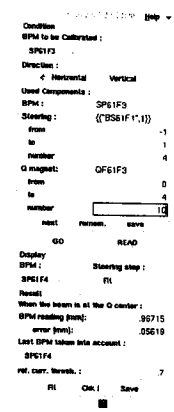

File Edit Window
SP61F4 [mm]
QF61F3 [A]
Hard Copy

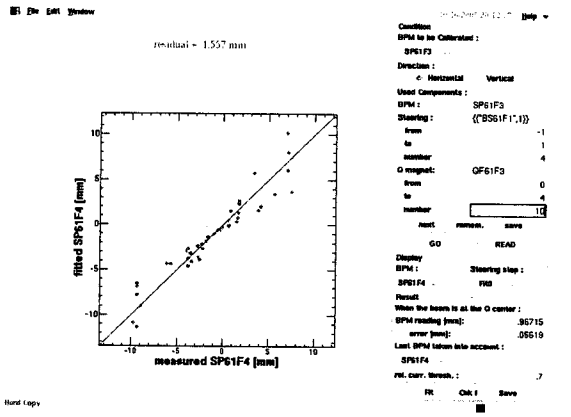

Condition
BPM to be Calibrated :
SP61F3
Direction :
Horizontal
Vertical
Used Components :
BPM : SP61F3
Steering : {{"BS61F1",1}}
from -1
to 1
number 4
Q magnet: QF61F3
from 0
to 4
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 3
Result
When the beam is at the Q center :
BPM reading [mm]: .96715
error [mm]: .05619
Last BPM taken into account :
SP61F4
rel. corr. thresh. : .7
Fit Chk I Save


File Edit Window
SP61F4 [mm]
QF61F3 [A]
Hard Copy

Condition
BPM to be Calibrated :
SP61F3
Direction :
Horizontal
Vertical
Used Components :
BPM : SP61F3
Steering : {{"BS61F1",1}}
from -1
to 1
number 4
Q magnet: QF61F3
from 0
to 4
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 4
Result
When the beam is at the Q center :
BPM reading [mm]: .96715
error [mm]: .05619
Last BPM taken into account :
SP61F4
rel. corr. thresh. : .7
Fit Chk I Save


File Edit Window
∂SP61F4/ ∂QF61F3 [mm/A]
SP61F3 [mm]
Hard Copy


Condition
BPM to be Calibrated :
SP61F3
Direction :
Horizontal
Vertical
Used Components :
BPM : SP61F3
Steering : {{"BS61F1",1}}
from -1
to 1
number 4
Q magnet: QF61F3
from 0
to 4
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 Fit
Result
When the beam is at the Q center :
BPM reading [mm]: .96715
error [mm]: .05619
Last BPM taken into account :
SP61F4
rel. corr. thresh. : .7
Fit Chk I Save

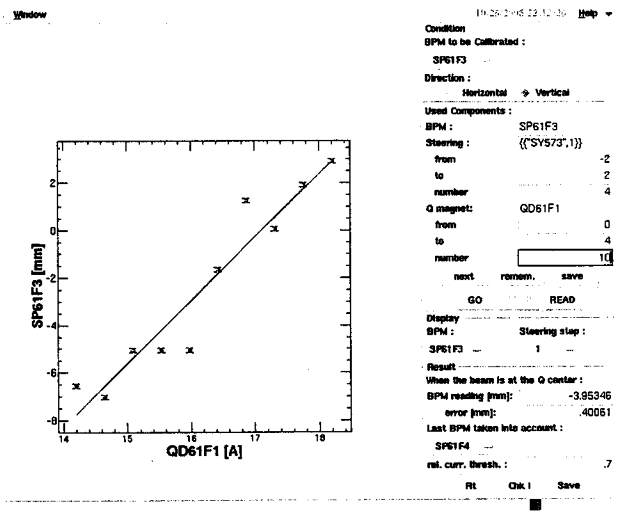

File Edit Window
residual = 1.557 mm
fitted SP61F4 [mm]
measured SP61F4 [mm]
Hard Copy

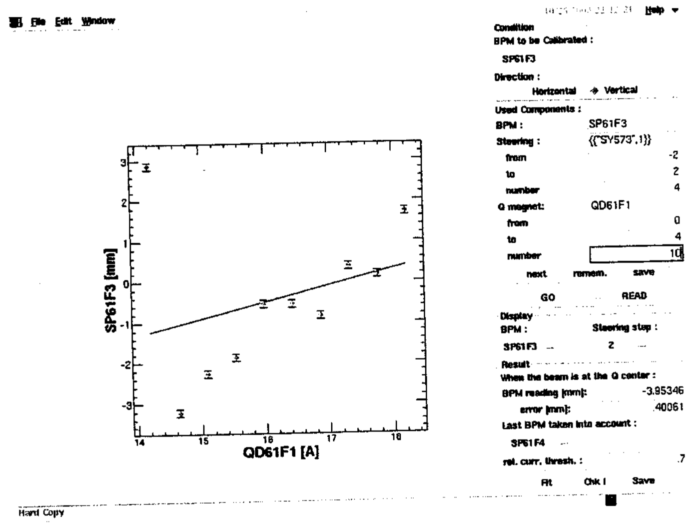
Condition
BPM to be Calibrated :
SP61F3
Direction :
Horizontal
Vertical
Used Components :
BPM : SP61F3
Steering : {{"BS61F1",1}}
from -1
to 1
number 4
Q magnet: QF61F3
from 0
to 4
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 Fit
Result
When the beam is at the Q center :
BPM reading [mm]: .96715
error [mm]: .05619
Last BPM taken into account :
SP61F4
rel. corr. thresh. : .7
Fit Chk I Save

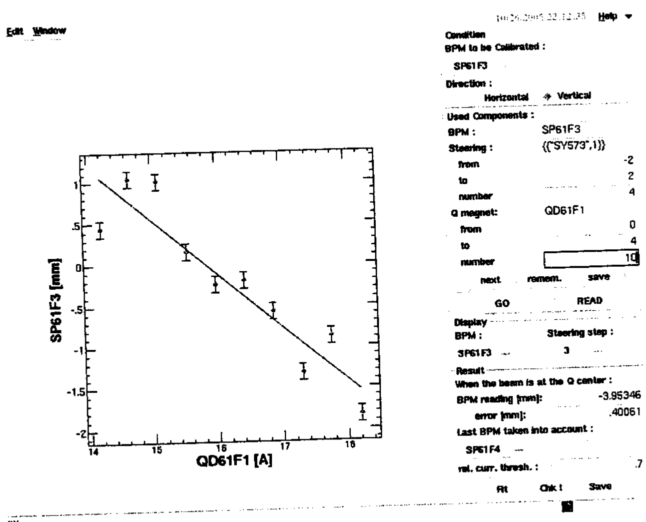
(V)

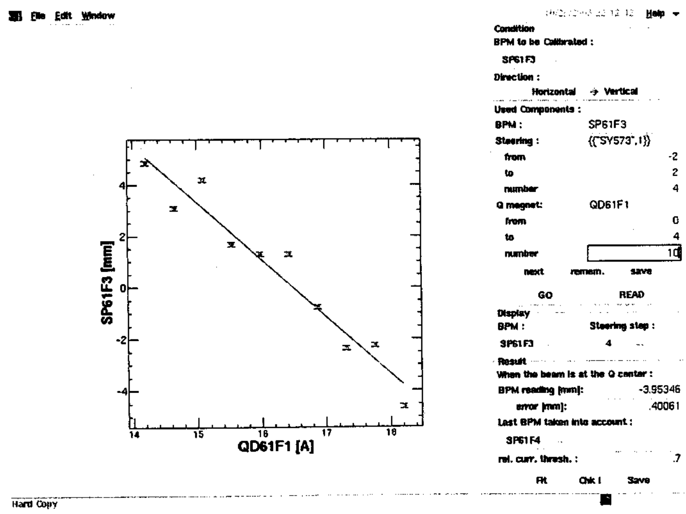
{ SY573
  QD61F1 }

(※) { QD61F3
  QF61F3 } × { BY61F } の組み合わせは、計算不可であった。

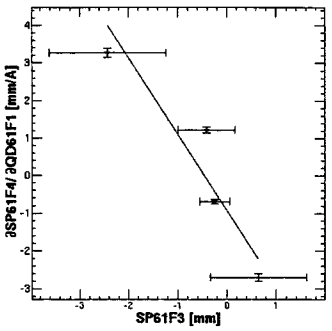








File Edit Window

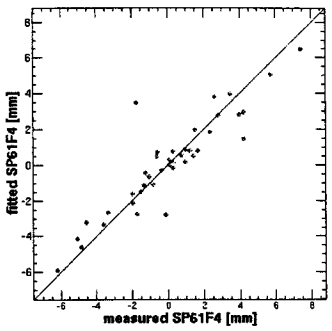


Condition
BPM to be Calibrated : SP61F3
Direction : Horizontal Vertical
Used Components :
BPM : SP61F3
Steering : {{"SY573",1}}
from -2
to 2
number 4
Q magnet: QD61F1
from 0
to 4
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 Fit
Result
When the beam is at the Q center :
BPM reading [mm]: -3.95346
error [mm]: .40061
Last BPM taken into account :
SP61F4
rel. curr. thresh. : .7
Fit Chk I Save

Hard Copy

File Edit Window

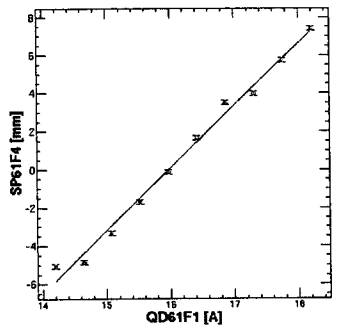
residual = 1.307 mm



Condition
BPM to be Calibrate
SP61F3
Direction :
Horizontal
Used Components :
BPM :
Steering :
from
to
number
Q magnet:
from
to
number
next rer
GO
Display
BPM :
SP61F4
Result
When the beam is a
BPM reading [mm]:
error [mm]:
Last BPM taken int
SP61F4
rel. curr. thresh. :
Fit C

Hard Copy

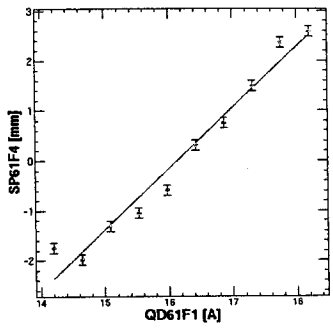
File Edit Window



Condition
BPM to be Calibrated : SP61F3
Direction : Horizontal Vertical
Used Components :
BPM : SP61F3
Steering : {{"SY573",1}}
from -2
to 2
number 4
Q magnet: QD61F1
from 0
to 4
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 1
Result
When the beam is at the Q center :
BPM reading [mm]: -3.95346
error [mm]: .40061
Last BPM taken into account :
SP61F4
rel. curr. thresh. : .7
Fit Chk I Save

Hard Copy

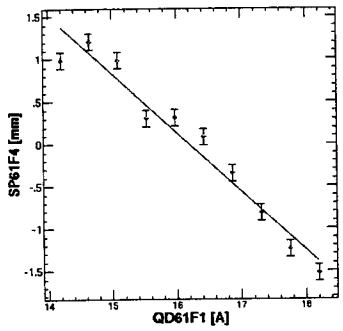
File Edit Window



Condition
BPM to be Calibr
SP61F3
Direction :
Horizont
Used Component
BPM :
Steering :
from
to
number
Q magnet:
from
to
number
next
GO
Display
BPM :
SP61F4
Result
When the beam is
BPM reading [mm
error [mm]:
Last BPM taken
SP61F4
rel. curr. thresh.
Fit

Hard Copy

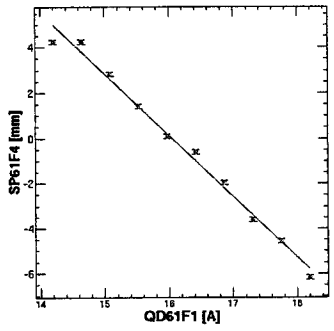
File Edit Window



Condition
BPM to be Calibrated : SP61F3
Direction : Horizontal Vertical
Used Components :
BPM : SP61F3
Steering : {{"SY573",1}}
from -2
to 2
number 4
Q magnet: QD61F1
from 0
to 4
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 3
Result
When the beam is at the Q center :
BPM reading [mm]: -3.95346
error [mm]: .40061
Last BPM taken into account :
SP61F4
rel. curr. thresh. : .7
Fit Chk I Save

Hard Copy

File Edit Window



Condition
BPM to be Cal
SP61F3
Direction :
Horizo
Used Compon
BPM :
Steering :
from
to
number
Q magnet:
from
to
number
next
GO
Display
BPM :
SP61F4
Result
When the bea
BPM reading
error [mm
Last BPM take
SP61F4
rel. curr. thres
Fit

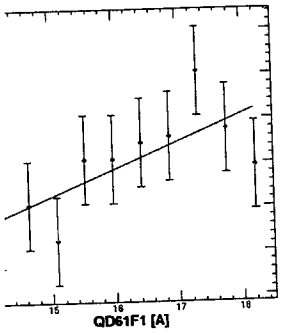
Hard Copy

~~St. [illegible]~~ St. [illegible]

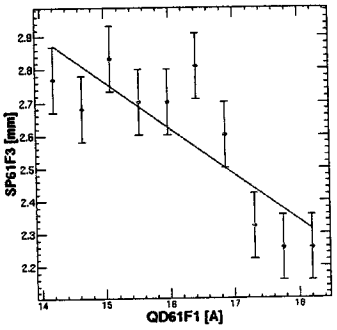
85

('05/10/28(金)) M. Satoh

S8_61_F3 (LF-BT 8本BPM)
の#Vertical Quad BPM.

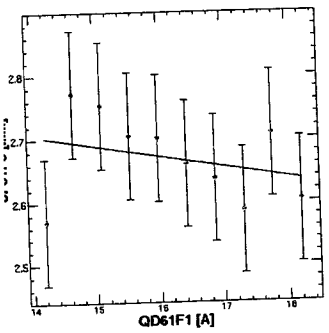


Condition
BPM to be Calibrated : SP61F3
Direction : Horizontal Vertical
Used Components :
BPM : SP61F3
Steering : {{"SY573",1}}
from -2
to 2
number 4
Q magnet: QD61F1
from 0
to 4
number 10
next remem. sav
GO READ
Display
BPM : Steering step :
SP61F3 1
Result
When the beam is at the Q center :
BPM reading [mm]: 2.36926
error [mm]: 1.44506
Last BPM taken into account :
SP61F5
rel. curr. thresh. : .7
Fit Chk I Save

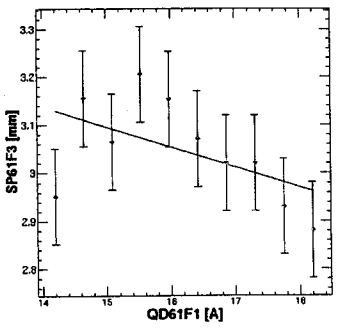


Hard Copy

Condition
BPM to be Calibrated : SP61F3
Direction : Horizontal Vertical
Used Components :
BPM : SP61F3
Steering : {{"SY573",1}}
from -2
to 2
number 4
Q magnet: QD61F1
from 0
to 4
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F3 2
Result
When the beam is at the Q center :
BPM reading [mm]: 2.36926
error [mm]: 1.44506
Last BPM taken into account :
SP61F5
rel. curr. thresh. : .7
Fit Chk I Save

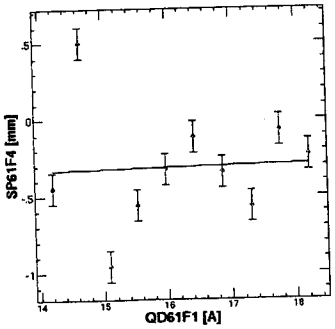


Condition
BPM to be Calibrated : SP61F3
Direction : Horizontal Vertical
Used Components :
BPM : SP61F3
Steering : {{"SY573",1}}
from -2
to 2
number 4
Q magnet: QD61F1
from 0
to 4
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F3 3
Result
When the beam is at the Q center :
BPM reading [mm]: 2.36926
error [mm]: 1.44506
Last BPM taken into account :
SP61F5
rel. curr. thresh. : .7
Fit Chk I Save

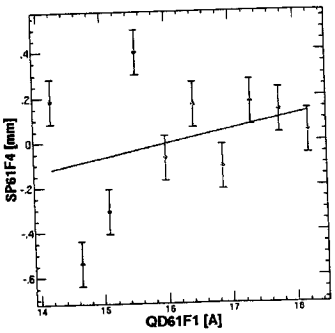


Hard Copy

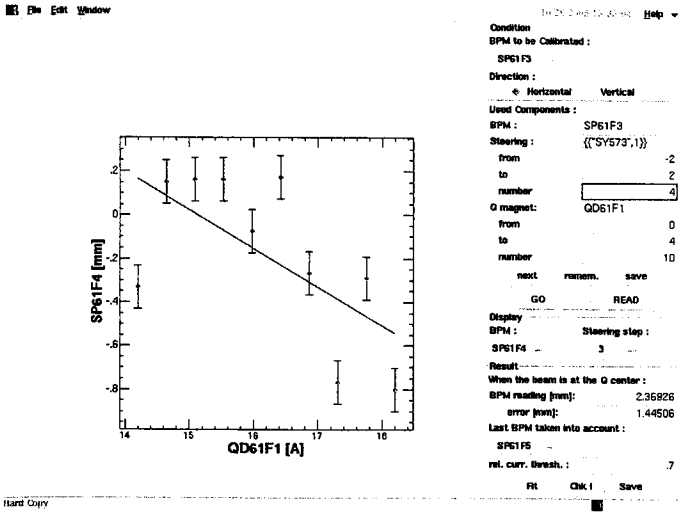
Condition
BPM to be Calibrated : SP61F3
Direction : Horizontal Vertical
Used Components :
BPM : SP61F3
Steering : {{"SY573",1}}
from -2
to 2
number 4
Q magnet: QD61F1
from 0
to 4
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F3 4
Result
When the beam is at the Q center :
BPM reading [mm]: 2.36926
error [mm]: 1.44506
Last BPM taken into account :
SP61F5
rel. curr. thresh. : .7
Fit Chk I Save

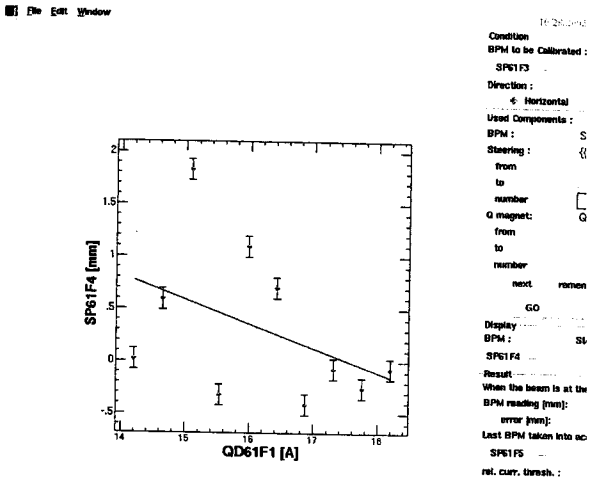


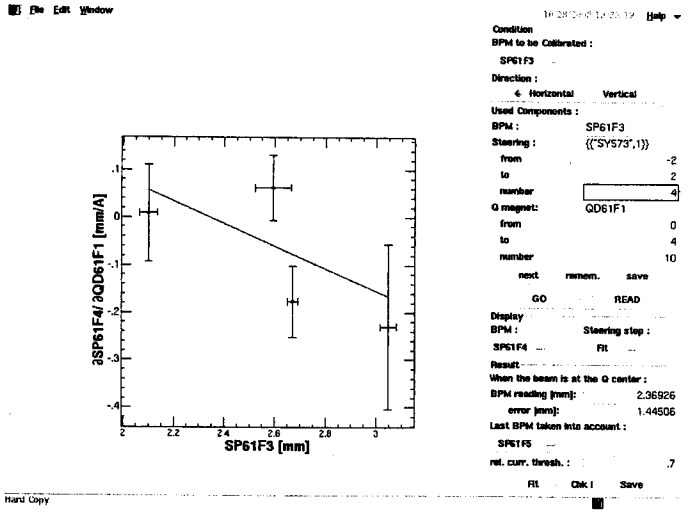
Condition
BPM to be Calibrated : SP61F3
Direction : Horizontal Vertical
Used Components :
BPM : SP61F3
Steering : {{"SY573",1}}
from -2
to 2
number 4
Q magnet: QD61F1
from 0
to 4
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 1
Result
When the beam is at the Q center :
BPM reading [mm]: 2.36926
error [mm]: 1.44506
Last BPM taken into account :
SP61F5
rel. curr. thresh. : .7
Fit Chk I Save

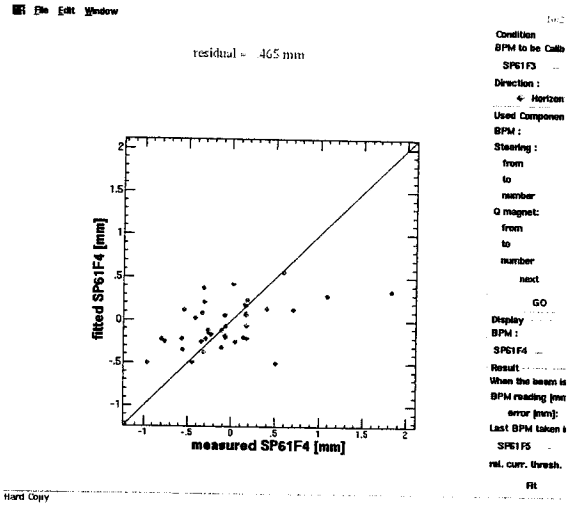


Condition
BPM to be Calibrated : SP61F3
Direction : Horizontal Vertical
Used Components :
BPM : SP61F3
Steering : {{"SY573",1}}
from -2
to 2
number 4
Q magnet: QD61F1
from 0
to 4
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 2
Result
When the beam is at the Q center :
BPM reading [mm]: 2.36926
error [mm]: 1.44506
Last BPM taken into account :
SP61F5
rel. curr. thresh. : .7
Fit Chk I Save





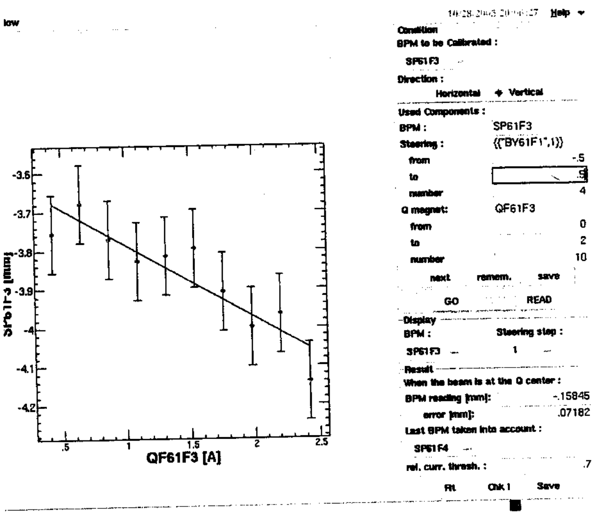


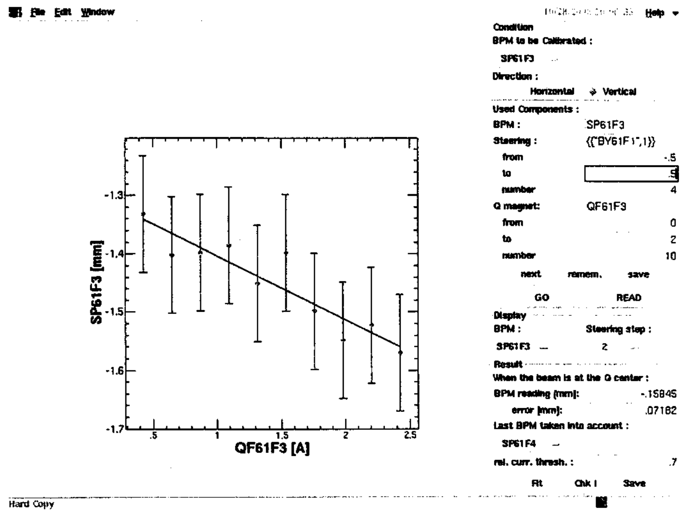


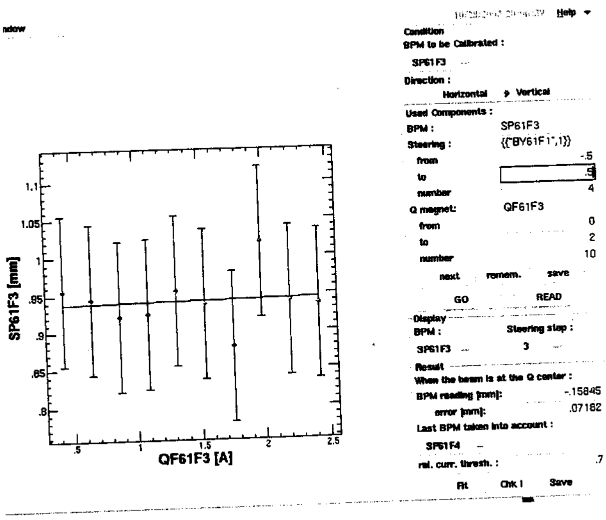
- この時の測定は、(たぶん) 途中で Charge が落ちていて、正しくない。

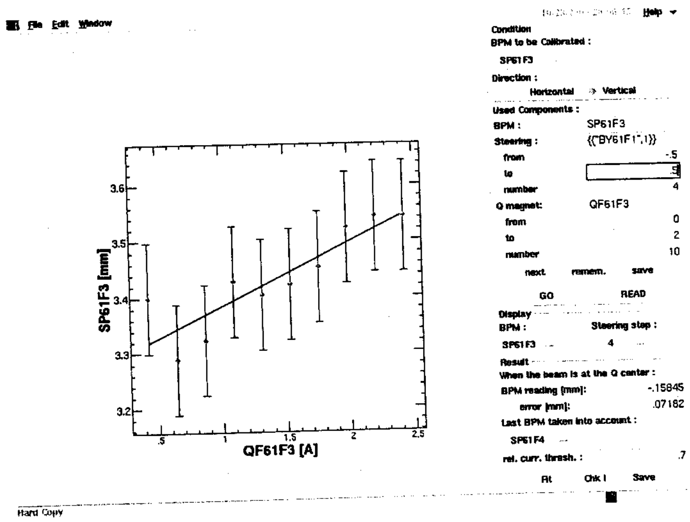
結果、

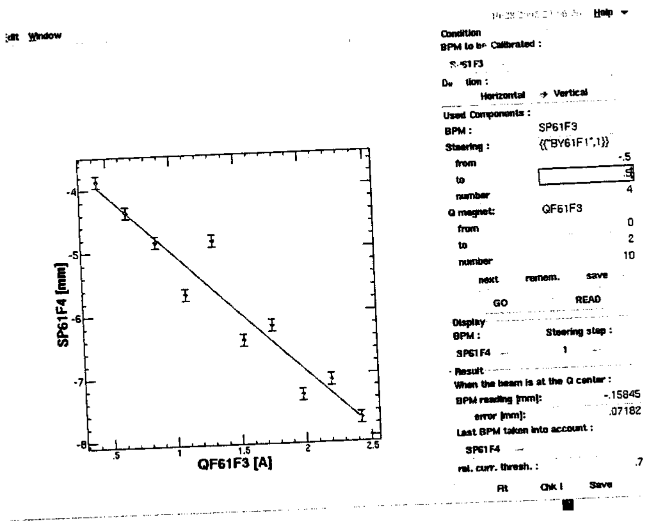
※・BY_61F1 と、QF61_F3 の組み合わせで測定、
次である。

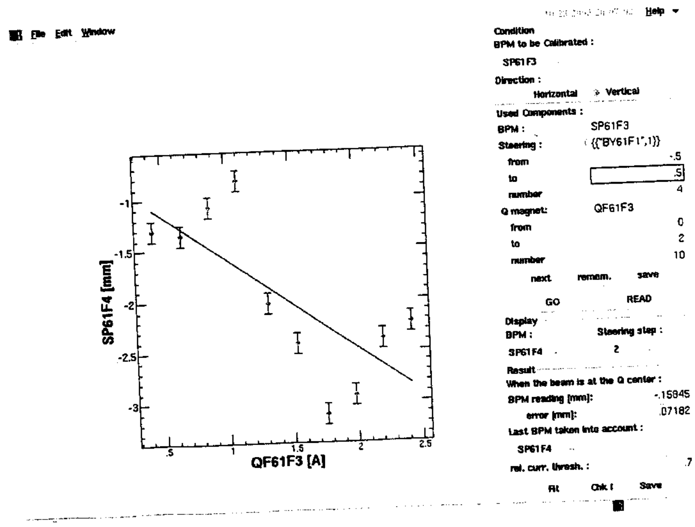




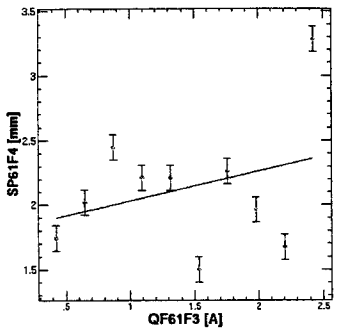








File Edit Window

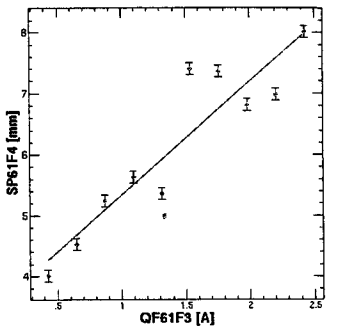


Hard Copy

Help

Condition
BPM to be Calibrated :
SP61F3
Direction :
Horizontal ✓ Vertical
Used Components :
BPM : SP61F3
Steering : {{"BY61F1",1}}
from -.5
to .5
number 4
Q magnet: QF61F3
from 0
to 2
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 3
Result
When the beam is at the Q center :
BPM reading [mm]: -.15845
error [mm]: .07182
Last BPM taken into account :
SP61F4
rel. curr. thresh. : .7
Fit Chk I Save

File Edit Window

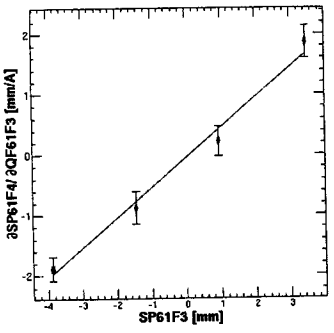


Hard Copy

Help

Condition
BPM to be Calibrated :
SP61F3
Direction :
Horizontal ✓ Vertical
Used Components :
BPM : SP61F3
Steering : {{"BY61F1",1}}
from -.5
to .5
number 4
Q magnet: QF61F3
from 0
to 2
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 4
Result
When the beam is at the Q center :
BPM reading [mm]: -.15845
error [mm]: .07182
Last BPM taken into account :
SP61F4
rel. curr. thresh. : .7
Fit Chk I Save

File Edit Window



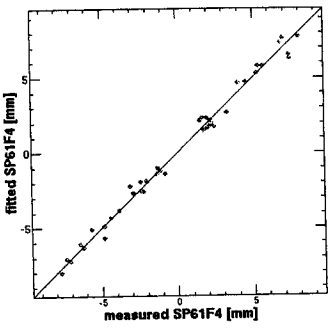
Hard Copy

Help

Condition
BPM to be Calibrated :
SP61F3
Direction :
Horizontal ✓ Vertical
Used Components :
BPM : SP61F3
Steering : {{"BY61F1",1}}
from -.5
to .5
number 4
Q magnet: QF61F3
from 0
to 2
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 Fit
Result
When the beam is at the Q center :
BPM reading [mm]: -.15845
error [mm]: .07182
Last BPM taken into account :
SP61F4
rel. curr. thresh. : .7
Fit Chk I Save

File Edit Window

residual = 496 mm



Hard Copy

Help

Condition
BPM to be Calibrated :
SP61F3
Direction :
Horizontal ✓ Vertical
Used Components :
BPM : SP61F3
Steering : {{"BY61F1",1}}
from -.5
to .5
number 4
Q magnet: QF61F3
from 0
to 2
number 10
next remem. save
GO READ
Display
BPM : Steering step :
SP61F4 Fit0
Result
When the beam is at the Q center :
BPM reading [mm]: -.15845
error [mm]: .07182
Last BPM taken into account :
SP61F4
rel. curr. thresh. : .7
Fit Chk I Save

0.4365
0.888

Oct.31.2005

Pre buncher	4.3 →	11.9°	
buncher	296 →	291.3°	(小5回)
KL_CT	220.7 →	225.2°	Core 小 (Tail あり?)
		223	Core 大.
SB-1	96°	96°.	

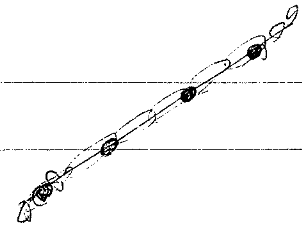
11:55 SP-61-F4 の手 Quad BPM

Ⓥ

BY-61-F1	QP-61-F5		SP-61 F4	PM2 Y値
0.12.	0.183	nominal.	3.07 mm	
0.0			2.4	上昇
-0.1			1.4	上昇
+0.05			2.8	上昇
+0.14.			3.1	変化なし
+0.15			3.7	下降.
+0.12			+3.2	変化なし

Ⓗ

BX-61-F3			
-0.50	nominal.	-0.5 mm	左へ.
-0.0		0.9 mm	?
-1.0		-1.2	左へ.
0		1.0 mm	変化なし
+0.5		2.2 mm	右へ
+0.2		1.6 mm	右へ
-0.2		0.4 mm	左へ.
0		+0.8 mm	



F4 X +1.6mm が元
Y +1.3mm が元.

ref Sp-26-2 0.085 Cor factor 0.71 factor

pf
Sp24-3 0.120 ~~cross~~
Sp26-1
26-3
27-2
28-2
31-0
~~28~~-4 0.110/0.08

1.275

1.27 → 0.90
1.284 → 0.91
1.304 → 0.926
1.323 → 0.939
1.313 → 0.932
2.264 → 1.607
1.526 → 2.09

14:30 Sp 61-F4 Quad BPM.

Horizontal.

1回目
Bx61-3 ±0.6 A
QD61F4 0 → 2 A, 0 → 1 A, 0 → +0.7 A,

今の Sp61-F4 の Offset 値. (x -1.6, y -1.3 mm)

| Energy FB ON でやっていた | 切れる. |

-1.11 ±0.2361