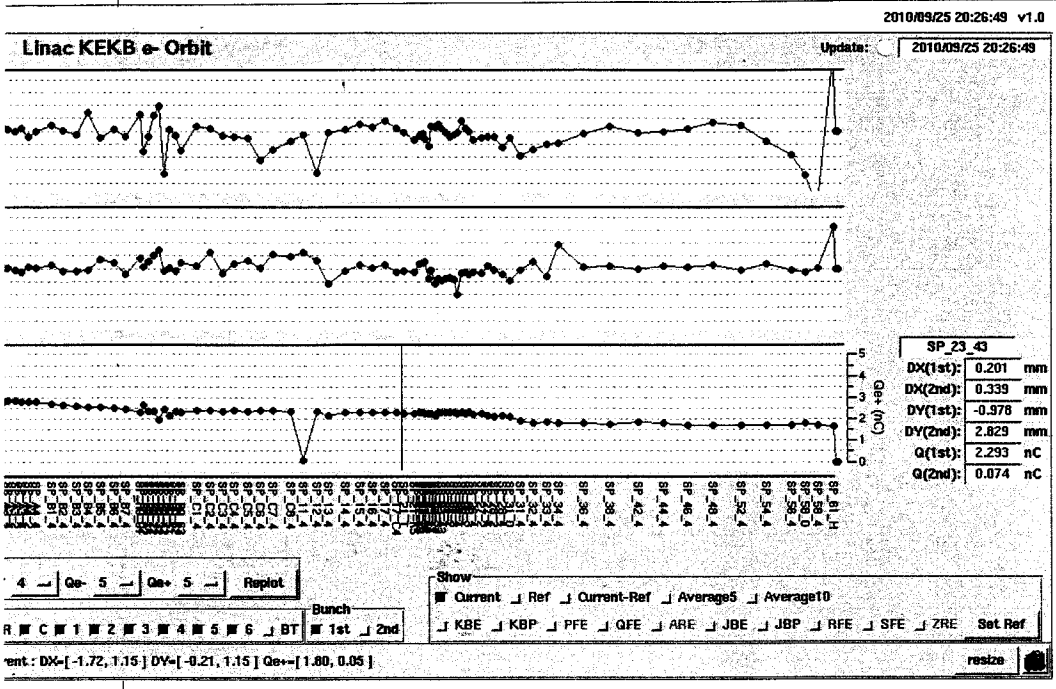
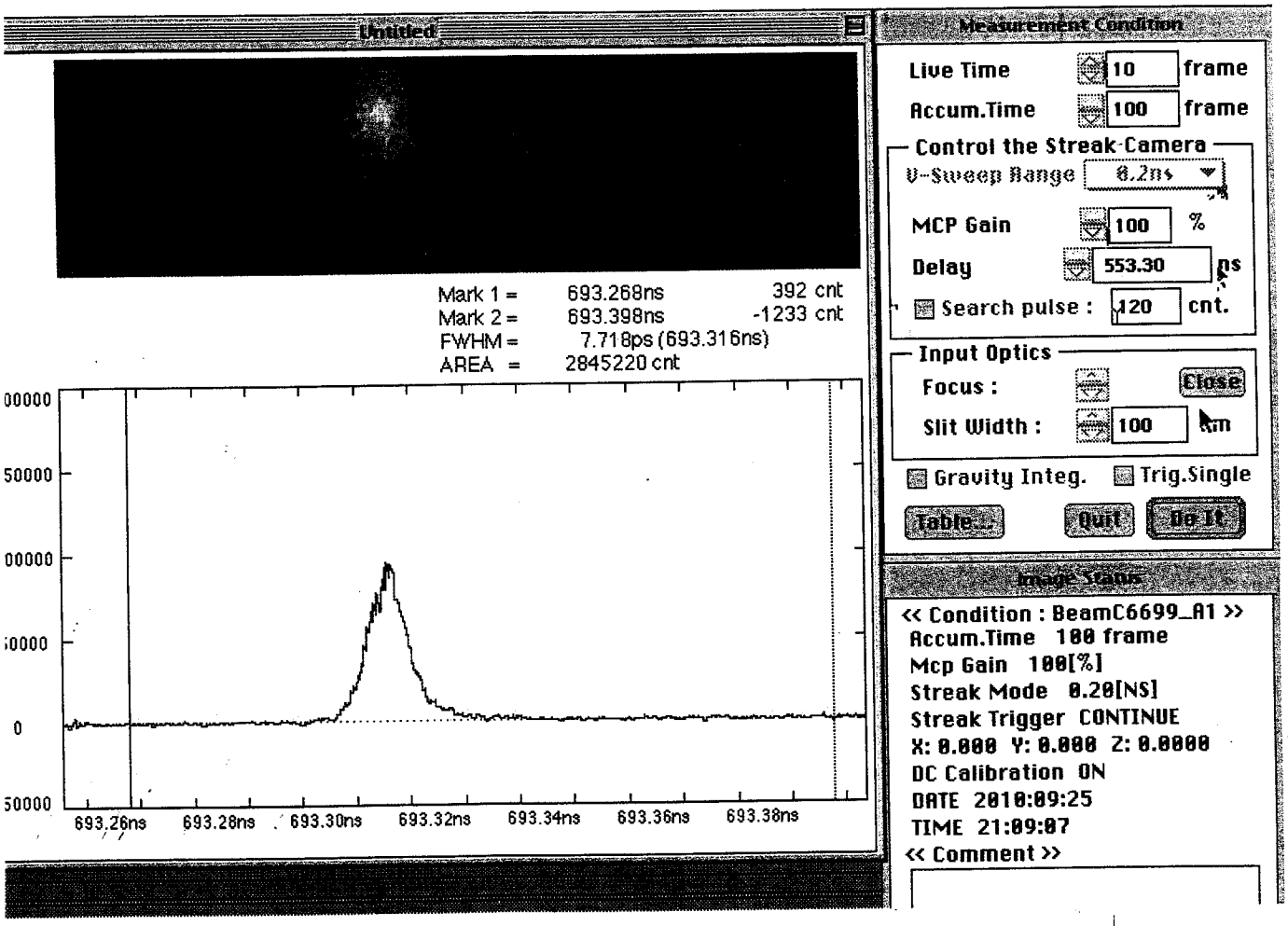
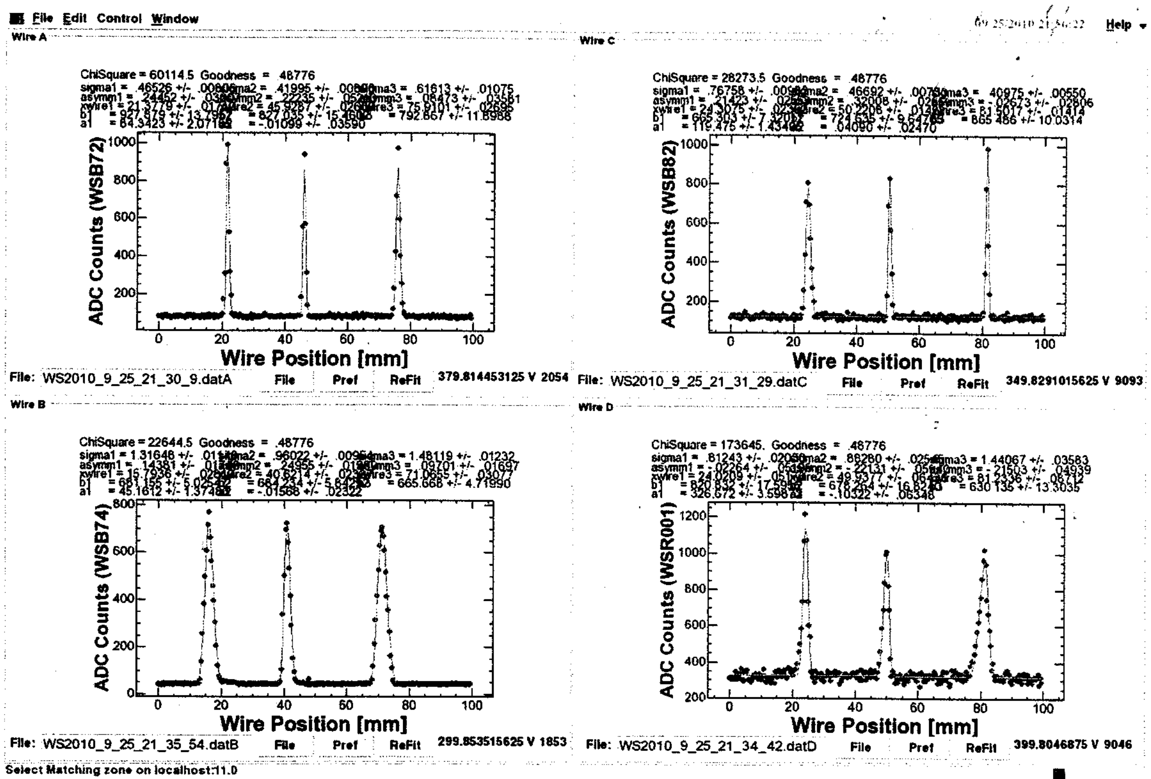
共通 Optics 8GeV e⁻

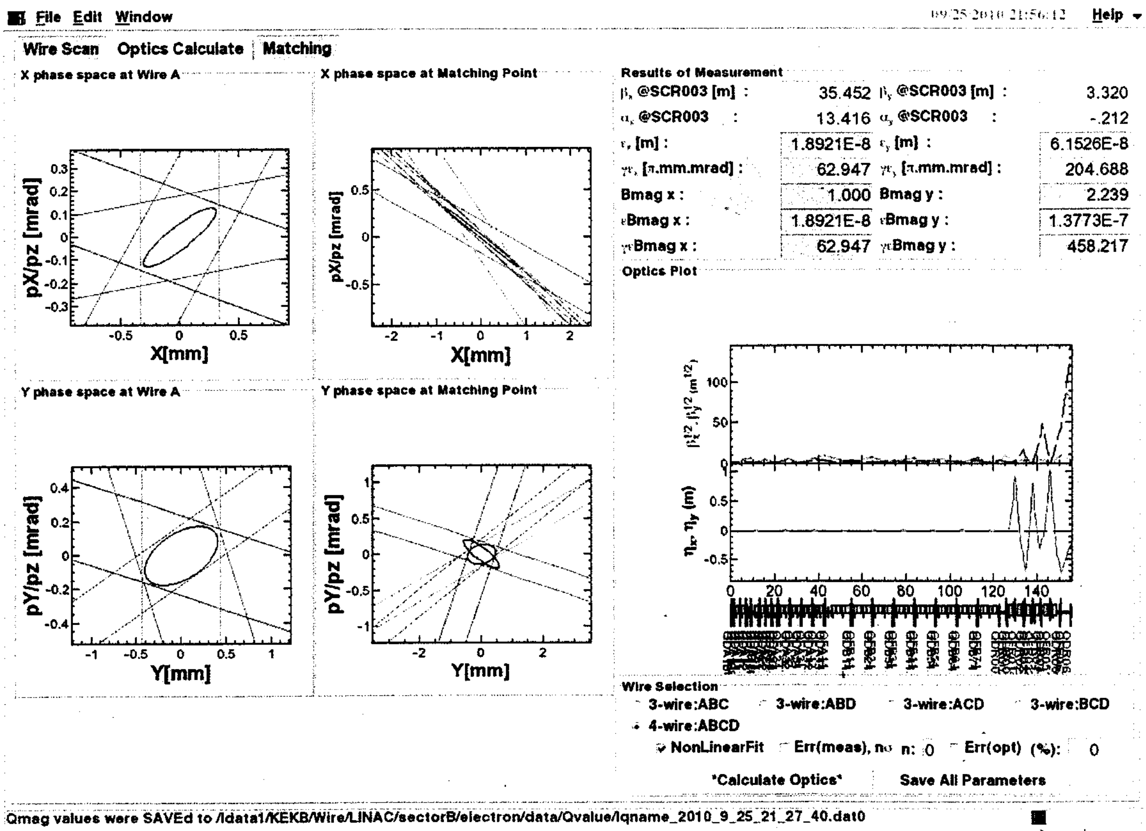


;T = data 498 all (3 nC)




File Edit Control Window
Help
Wire A
Wire C
Wire B
Wire D
ChiSquare = 60114.5 Goodness = .48776
ChiSquare = 28273.5 Goodness = .48776
ChiSquare = 22644.5 Goodness = .48776
ChiSquare = 173645. Goodness = .48776
ADC Counts (WSB72)
ADC Counts (WSB82)
ADC Counts (WSB74)
ADC Counts (WSR001)
Wire Position [mm]
File: WS2010_9_25_21_30_9.datA File Pref ReFit 379.814453125 V 2054
File: WS2010_9_25_21_31_29.datC File Pref ReFit 349.8291015625 V 9093
File: WS2010_9_25_21_35_54.datB File Pref ReFit 299.853515625 V 1853
File: WS2010_9_25_21_34_42.datD File Pref ReFit 399.8046875 V 9046
Select Matching zone on localhost:11.0

BT77 – (5Hz)


File Edit Window
09/25/2010 21:56:12
Help
Wire Scan
Optics Calculate
Matching
X phase space at Wire A
X phase space at Matching Point
Y phase space at Wire A
Y phase space at Matching Point
pX/pz [mrad]
pY/pz [mrad]
X[mm]
Y[mm]
Results of Measurement
βx @SCR003 [m] : 35.452
βy @SCR003 [m] : 3.320
αx @SCR003 : 13.416
αy @SCR003 : -.212
εx [m] : 1.8921E-8
εy [m] : 6.1526E-8
γεx [π.mm.mrad] : 62.947
γεy [π.mm.mrad] : 204.688
Bmag x : 1.000
Bmag y : 2.239
εBmag x : 1.8921E-8
εBmag y : 1.3773E-7
γεBmag x : 62.947
γεBmag y : 458.217
Optics Plot
Wire Selection
3-wire:ABC
3-wire:ABD
3-wire:ACD
3-wire:BCD
4-wire:ABCD
NonLinearFit
Err(meas), n: 0
Err(opt) (%): 0
Calculate Optics
Save All Parameters
Qmag values were SAVEd to /ldata1/KEKB/Wire/LINAC/sectorB/electron/data/Qvalue/lqname_2010_9_25_21_27_40.dat0

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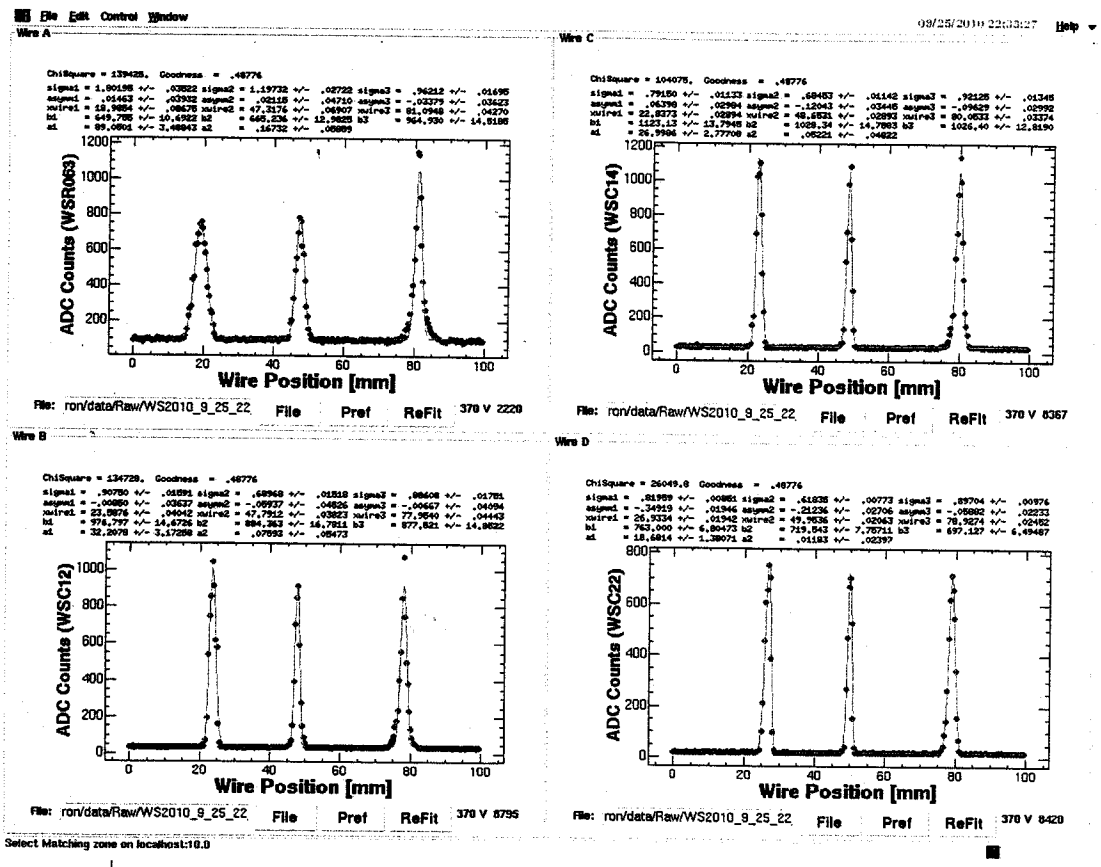
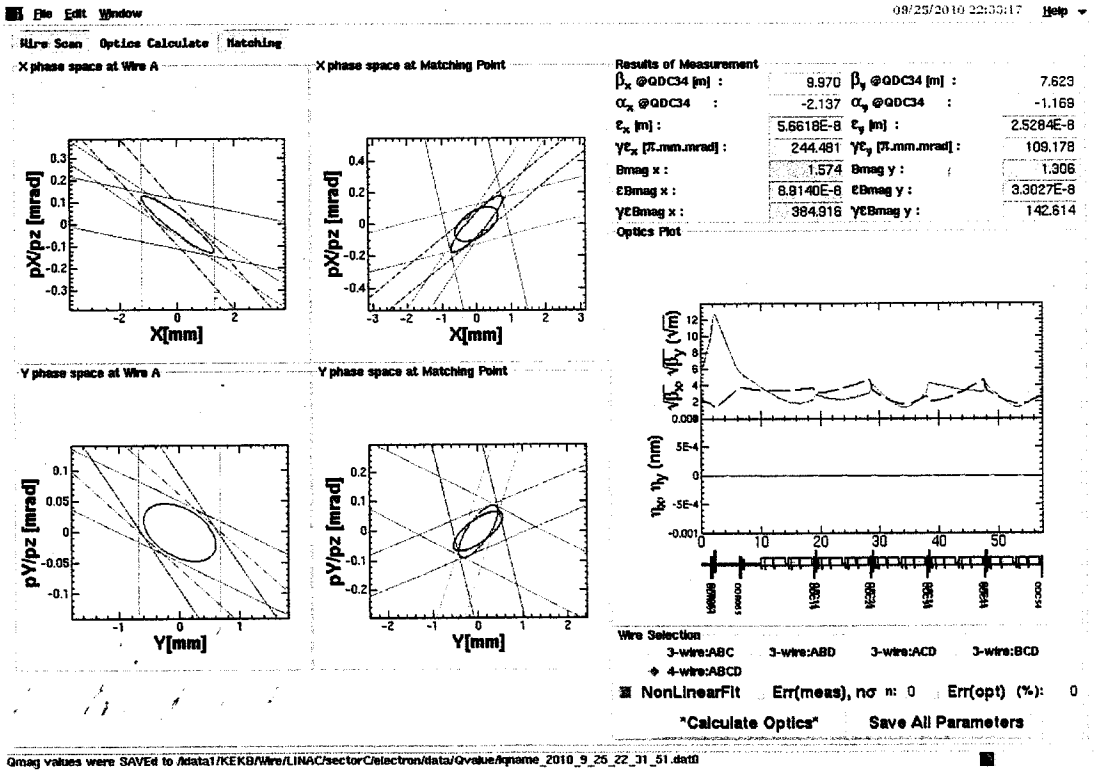
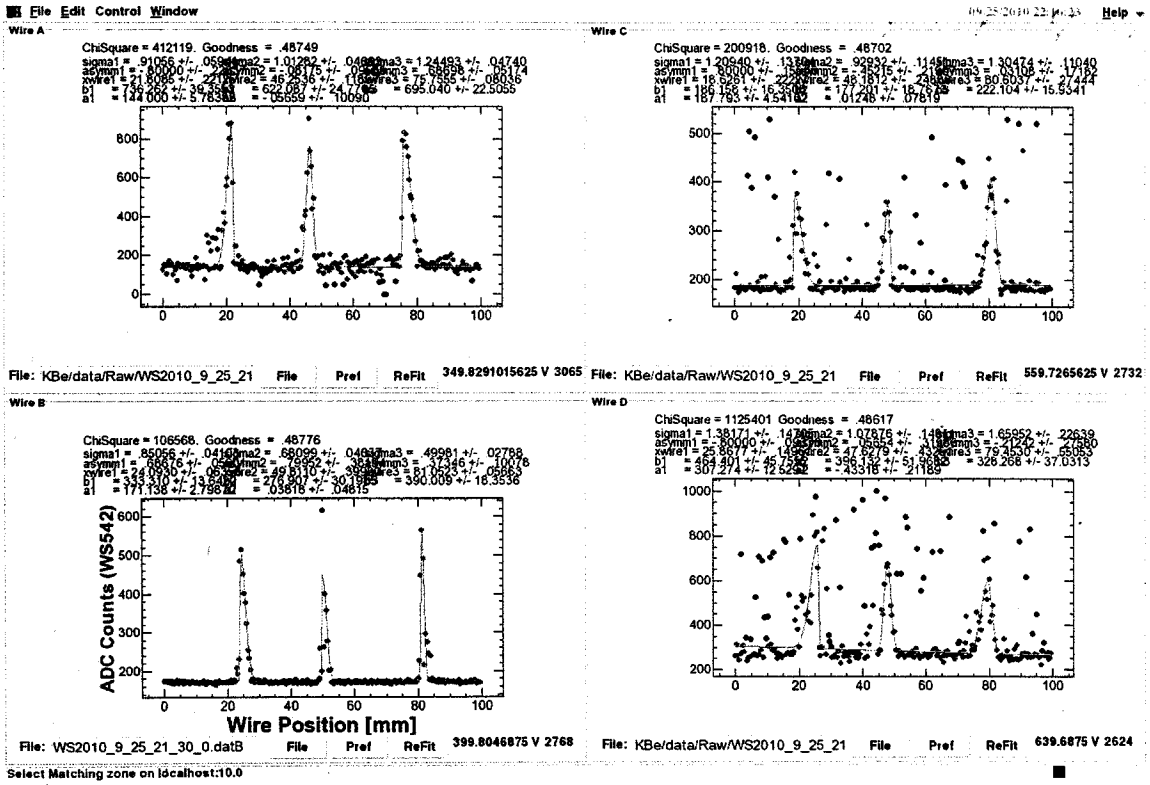
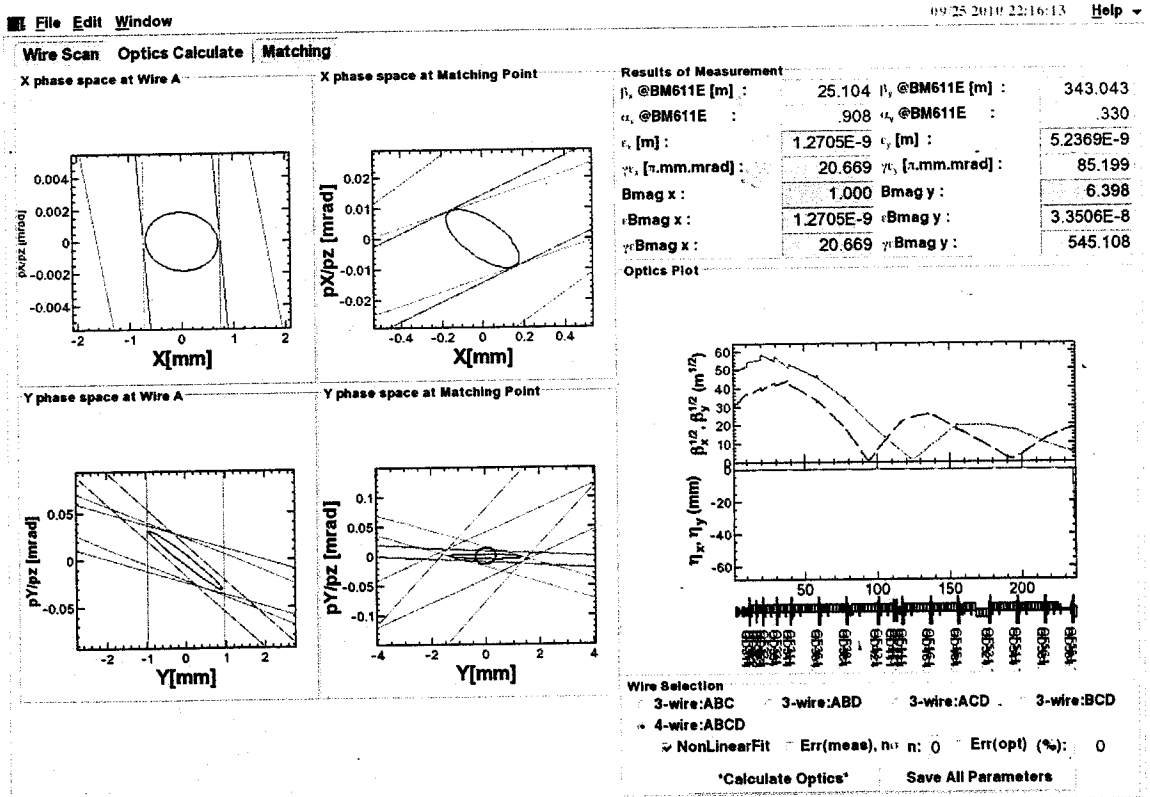

File Edit Control Window
09/25/2010 22:03:27 Help
Wire A
ADC Counts (WSR063)
Wire Position [mm]
File: ron/data/Raw/WS2010_9_25_22 File Pref ReFit 370 V 2220
Wire C
ADC Counts (WSC14)
Wire Position [mm]
File: ron/data/Raw/WS2010_9_25_22 File Pref ReFit 370 V 8367
Wire B
ADC Counts (WSC12)
Wire Position [mm]
File: ron/data/Raw/WS2010_9_25_22 File Pref ReFit 370 V 8795
Wire D
ADC Counts (WSC22)
Wire Position [mm]
File: ron/data/Raw/WS2010_9_25_22 File Pref ReFit 370 V 8420
Select Matching zone on localhost:10.0

cell - (5Hz)


File Edit Window
09/25/2010 22:33:17 Help
Wire Scan Optics Calculate Matching
X phase space at Wire A
X phase space at Matching Point
pX/pz [mrad]
X[mm]
Y phase space at Wire A
Y phase space at Matching Point
pY/pz [mrad]
Y[mm]
Results of Measurement
βx @QDC34 [m] : 9.970
βy @QDC34 [m] : 7.623
αx @QDC34 : -2.137
αy @QDC34 : -1.169
εx [m] : 5.6618E-8
εy [m] : 2.5284E-8
γεx [π.mm.mrad] : 244.481
γεy [π.mm.mrad] : 109.178
Bmag x : 1.574
Bmag y : 1.306
εBmag x : 8.8140E-8
εBmag y : 3.3027E-8
γεBmag x : 384.916
γεBmag y : 142.614
Optics Plot
Wire Selection
3-wire:ABC 3-wire:ABD 3-wire:ACD 3-wire:BCD
4-wire:ABCD
NonLinearFit Err(meas), nσ n: 0 Err(opt) (%): 0
Calculate Optics Save All Parameters
Qmag values were SAVEd to /data1/KEKB/Wire/LINAC/sector/electron/data/Qvalue/fname_2010_9_25_22_31_51.dat0


File Edit Control Window
Help
Wire A
ChiSquare = 412119. Goodness = .48749
File: KBe/data/Raw/WS2010_9_25_21
File
Pref
ReFit
349.8291015625 V 3065
Wire C
ChiSquare = 200918. Goodness = .48702
File: KBe/data/Raw/WS2010_9_25_21
File
Pref
ReFit
559.7265625 V 2732
Wire B
ChiSquare = 106568. Goodness = .48776
ADC Counts (WS542)
Wire Position [mm]
File: WS2010_9_25_21_30_0.datB
File
Pref
ReFit
399.8046875 V 2768
Wire D
ChiSquare = 1125401 Goodness = .48617
File: KBe/data/Raw/WS2010_9_25_21
File
Pref
ReFit
639.6875 V 2624
Select Matching zone on localhost:10.0

5-27- (5Hz)


File Edit Window
Help
Wire Scan
Optics Calculate
Matching
X phase space at Wire A
X[mm]
X phase space at Matching Point
X[mm]
Y phase space at Wire A
Y[mm]
Y phase space at Matching Point
Y[mm]
Results of Measurement
βx @BM611E [m] : 25.104
βy @BM611E [m] : 343.043
αx @BM611E : .908
αy @BM611E : .330
εx [m] : 1.2705E-9
εy [m] : 5.2369E-9
γεx [π.mm.mrad] : 20.669
γεy [π.mm.mrad] : 85.199
Bmag x : 1.000
Bmag y : 6.398
εBmag x : 1.2705E-9
εBmag y : 3.3506E-8
γεBmag x : 20.669
γεBmag y : 545.108
Optics Plot
Wire Selection
3-wire:ABC
3-wire:ABD
3-wire:ACD
3-wire:BCD
4-wire:ABCD
NonLinearFit
Err(meas), n: 0
Err(opt) (%): 0
Calculate Optics
Save All Parameters
Qmag values were SAVEd to /idata1/KEKB/Wire/LINAC/sector5/KEKBe/data/Qvalue/lqname_2010_9_25_21_21_35.dat0

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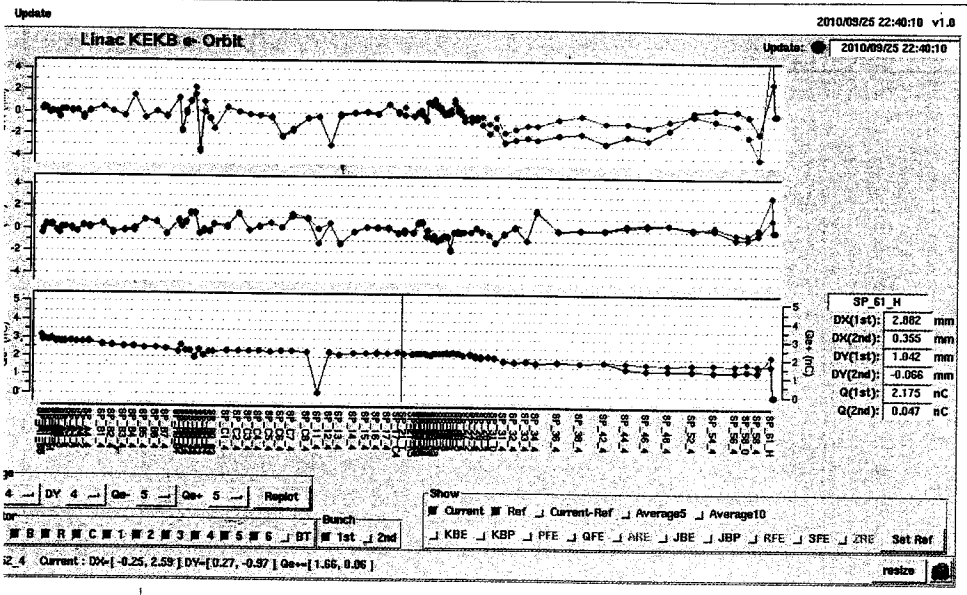
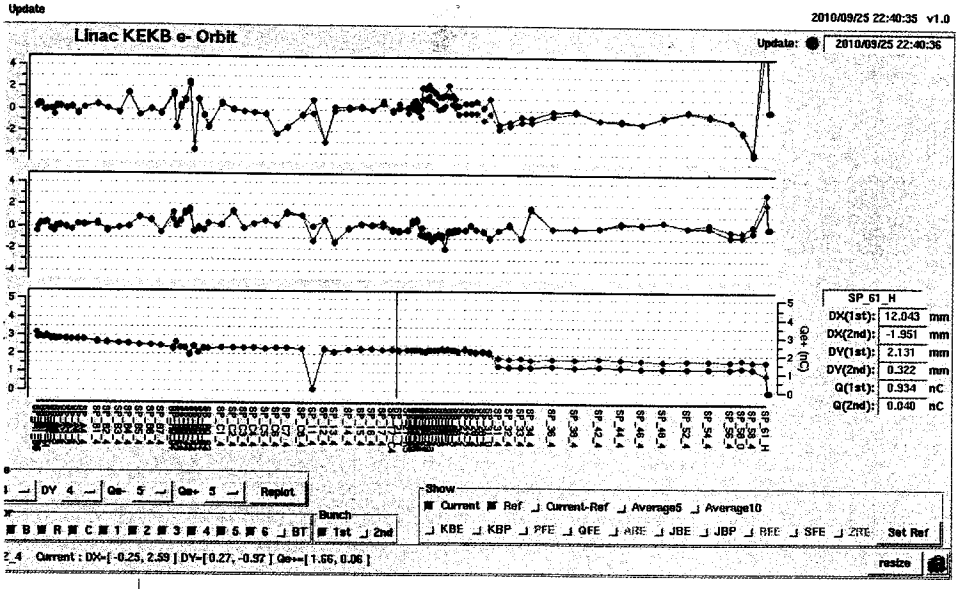
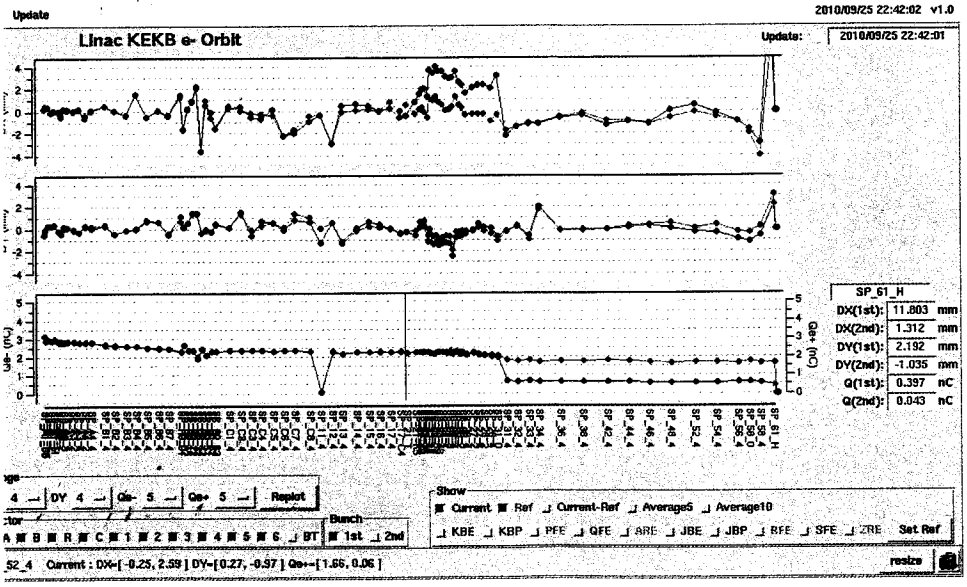


KL_22 STB

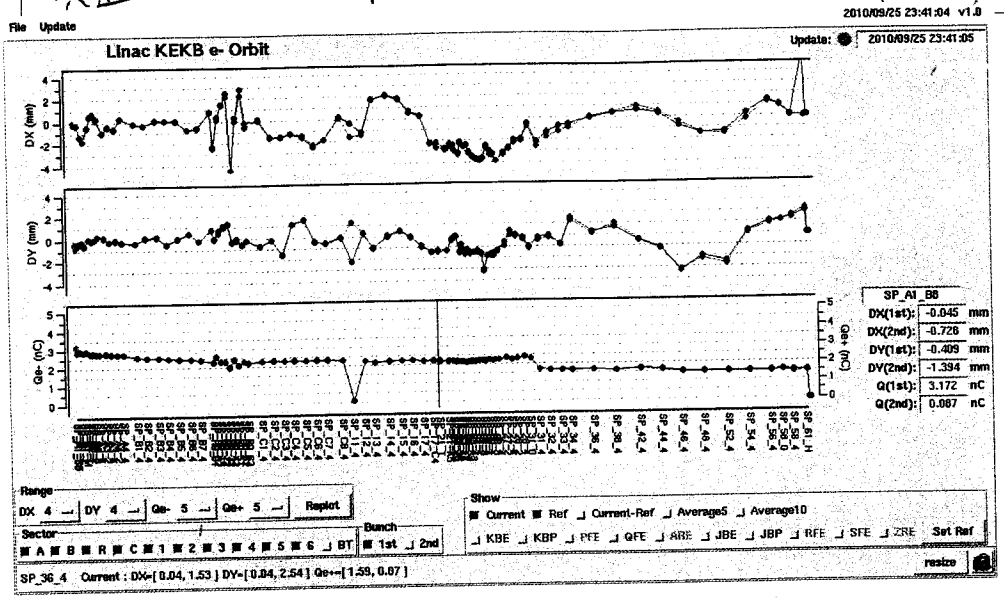


KL_11 STB

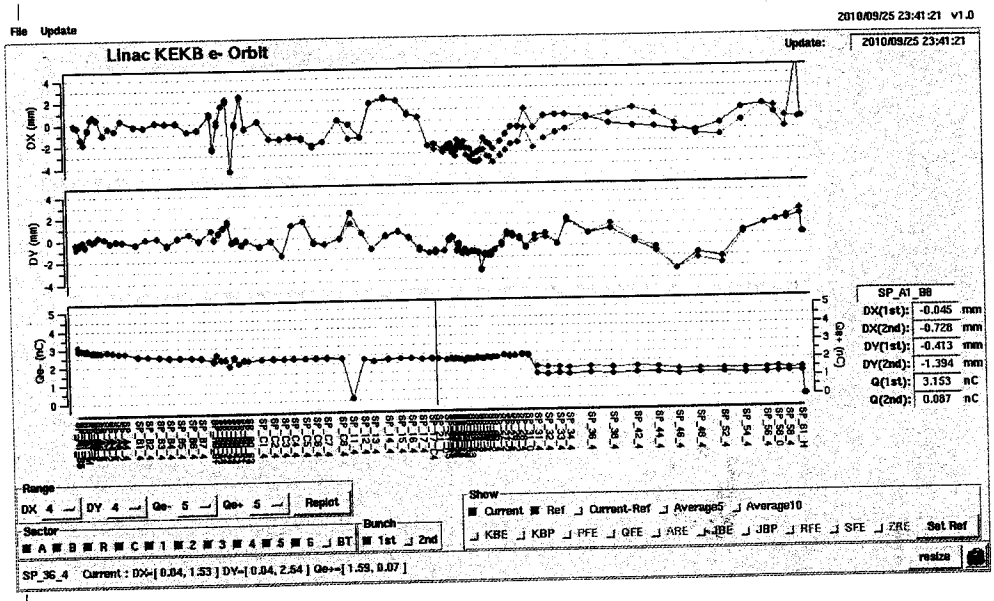


KL_C1 STB

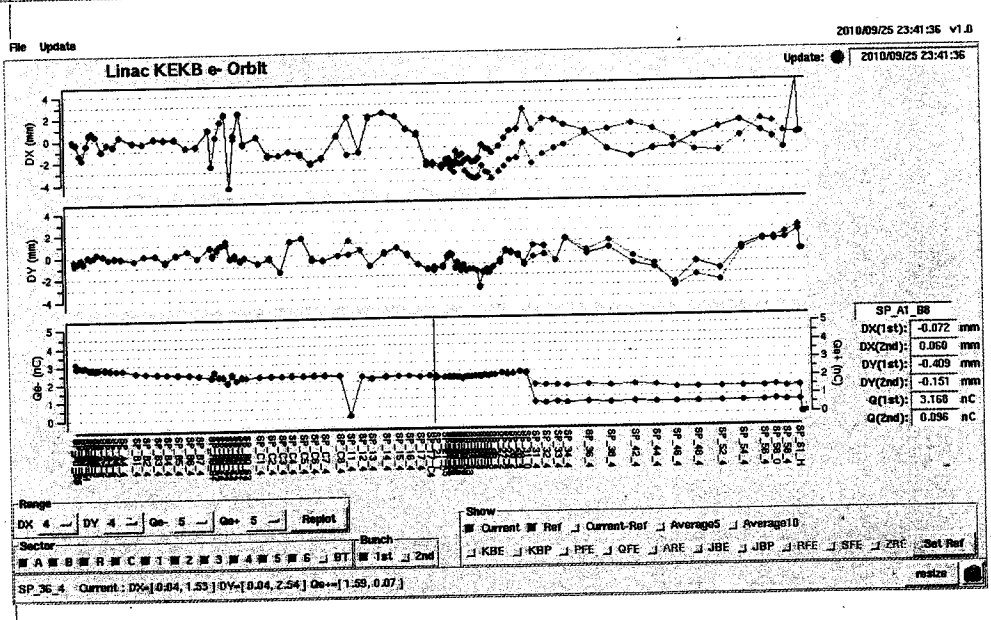
共通ではない Optics



KL-22 STB



KL-17 STB



KL-16 STB

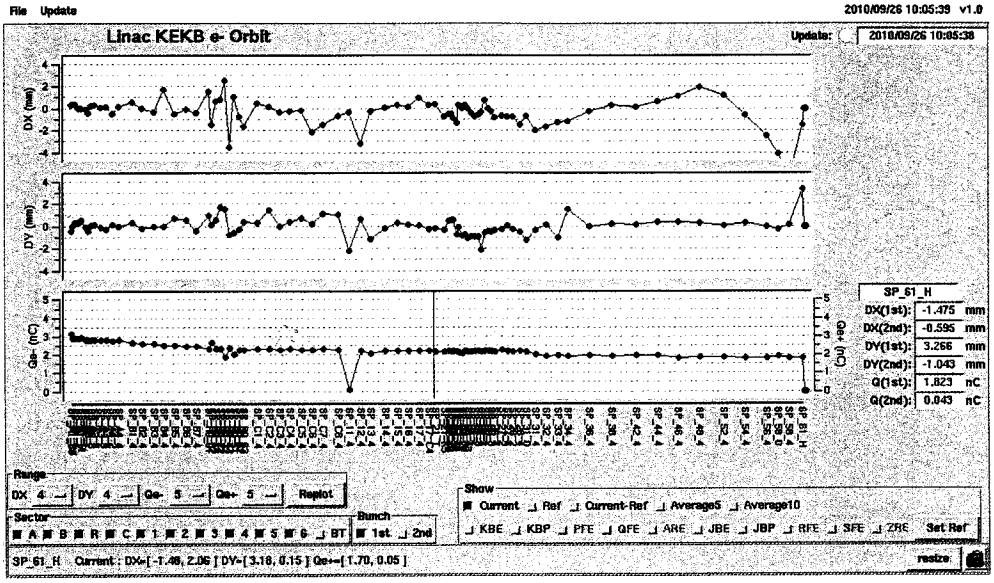
2010, 9, 26
A:ント
10:00

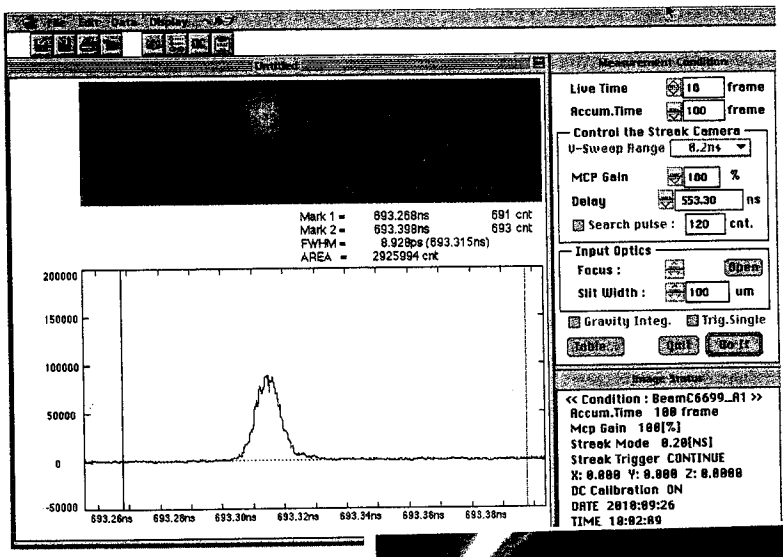
BT: data 4981.all セット (共通でないOptics)

Gun Bias 210.0V

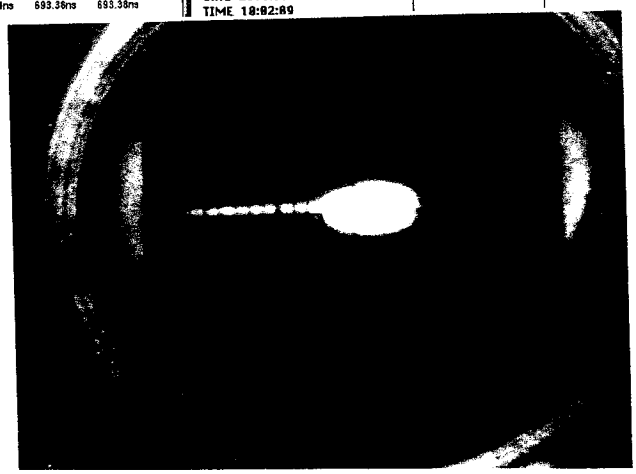
SH_A1_S1(kbe) 167.8°

SHA1_S1 93.76% (Amplitude)
23.47 (Power)





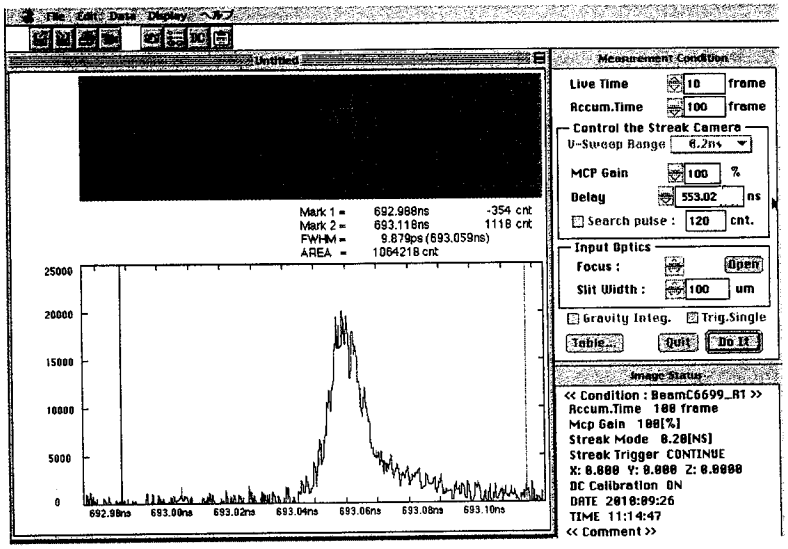
現状確認



SH_A1_S1 Power Feedback STOP → gain −0.8 → −0.0 で Start
(Power が小さくなるため)

SH_A1_S1 93.76 → 80.02 (Amplitude)
(23.47 → 20.37 (Power))

- SH_A1_S1 (kBE) φ 167.8° → 186.8°
- A1_S8 φ 32.6° → 75.6°
- Energy knob ro-kbe 1.6092 → 1.6018

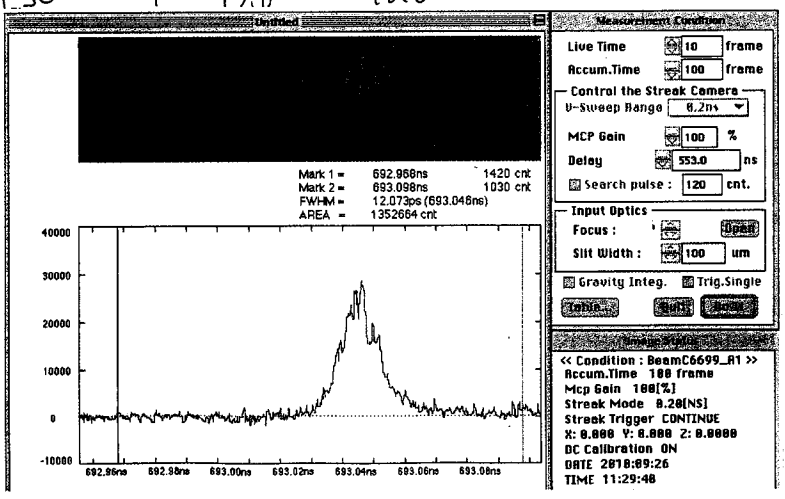


バンチ長 10ps 位.

さらに SHB1 Power を下げる.

SH_A1_S1 80.02 → 7001 (Amplitude)
(20.37 → 17.37 Power)

- SH_A1_S1 (kBE) φ 186.8° → 176.8°
- A1_S8 φ 75.6° → 76.6°



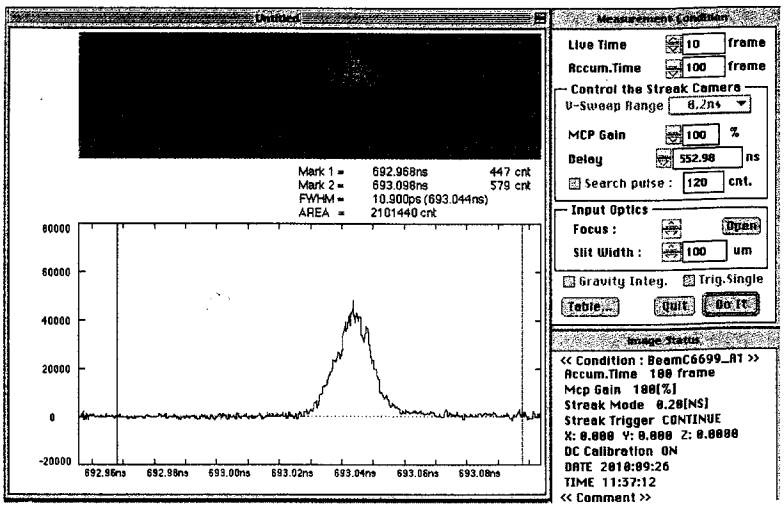
バンチ長 12ps

さらに SHB1 Power を下げる

SH_A1_S1　70.02 → 60.00 (Amplitude)

(17.3T → 14.26 Power)

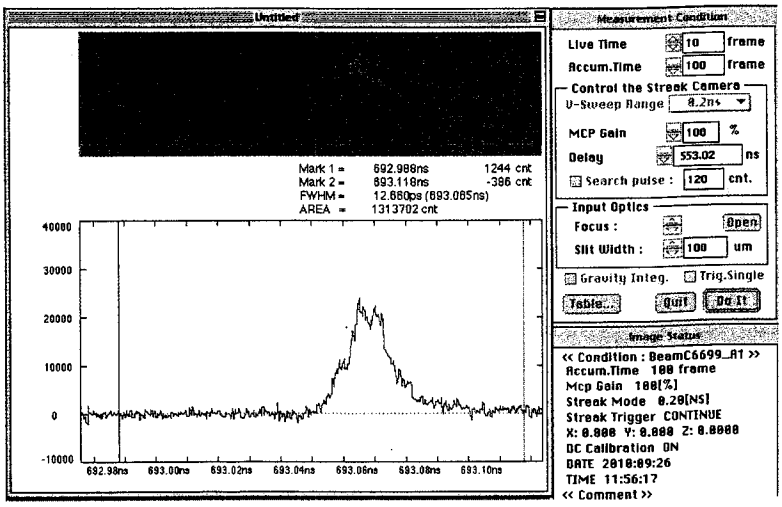
{ SH_A1_S1 (KBE) φ　176.8° → 168.8°
  SB_A (KBE) φ　90.0 → 95.0°
  B　φ　90.0 → 95.0° }



バンチ長 11ps 程立

SH_A1_S1　60.00 → 50.00 (Amplitude)

(14.26 → 11.09 Power)



バンチ長 12.5ps 程立

SHB1 パワーを下げて位相をふっても 大きくバンチ長が長くならないので、一担元に戻して、

位相 固定、パワーを少しずつ下げて バンチ長を確認する

SH_AI_S1 50.00 → 93.75 (Amplitude)
(11.09 → 23.47 power)

調整していたものを元に戻す.

位相を固定して Power を下げていくが、
途中の段階で二山になった。(93.75% → 88.0%)

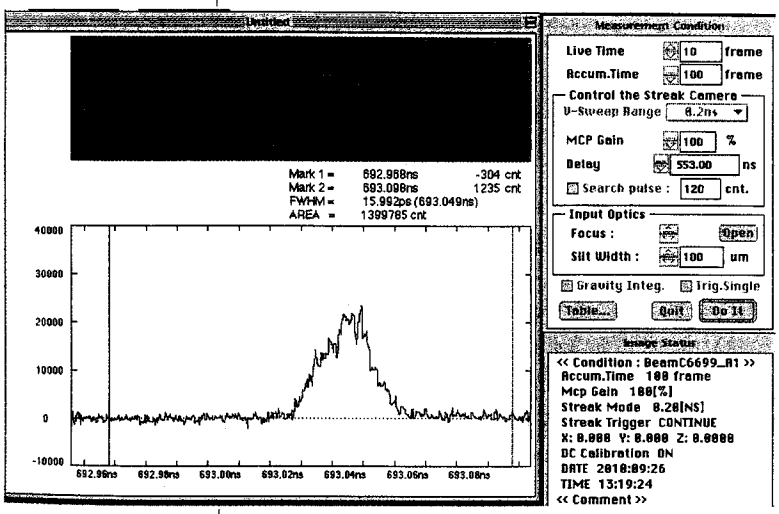
SH_AI_S1 を 50% よりもさらに下げる。

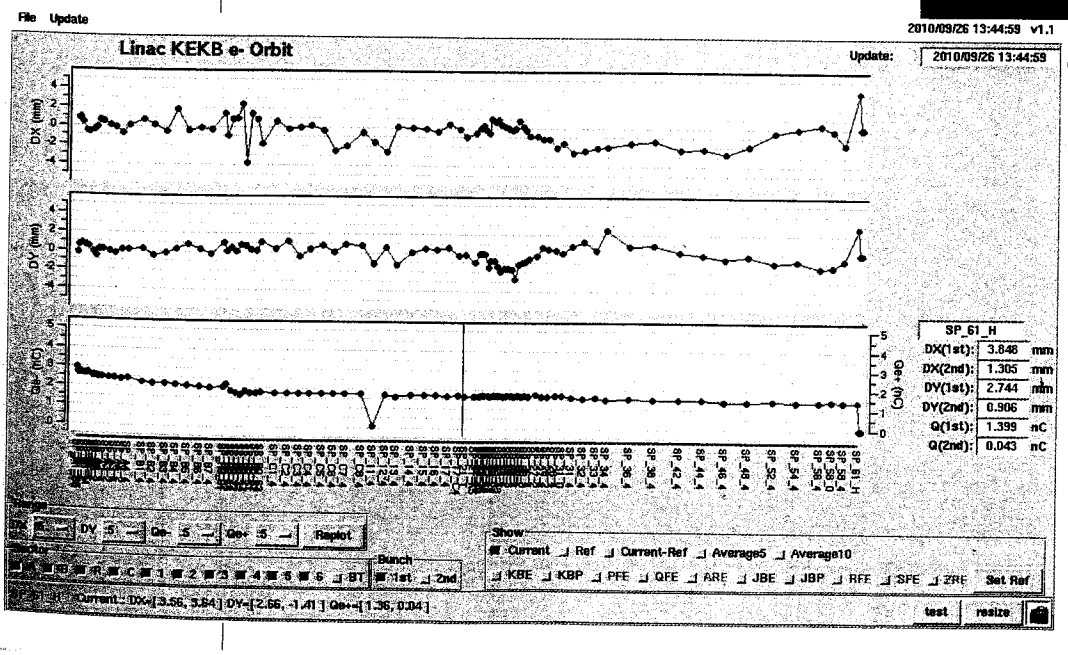
SH_AI_S1 88.0 → 30.0% (Amplitude)
(22.41 → 5.07 power)

{ SH_AI_S1 (KBE) φ 167.8°
AI_S8 φ 76.6° に調整

{ A φ 90.0 → 94.0°
B
C
S φ 82.0 → 86.0°
5

{ Bx_17_C5 -0.630 → -0.70
Y_17_C5 -0.601 → -0.631A
SX_28_3 -1.000A → 0.200A





バンチ長 16ps 位.

この状態で

Wire Scanner を採る