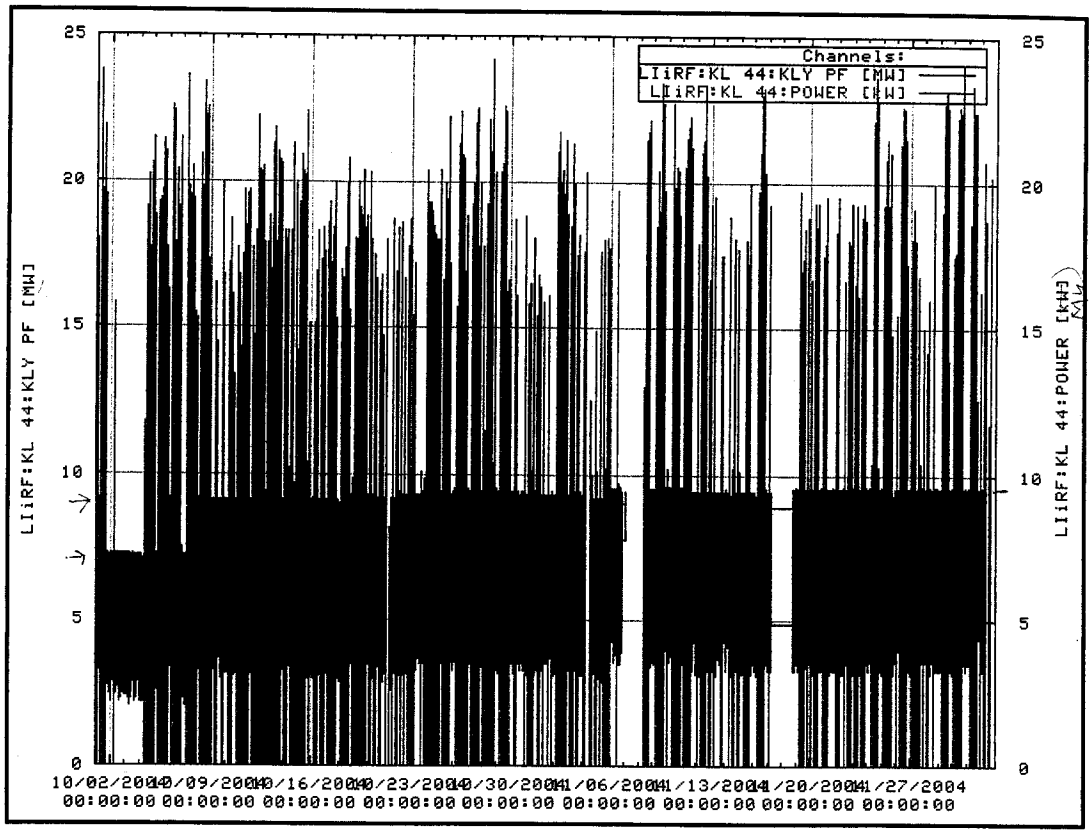
Channel Plot



Pattern: KL_44:(KLY_PF|POW) LIST INFO
☐ file glob

Names:
LIiRF:KL_44:KLY_PF
LIiRF:KL_44:POWER

CLEAR

Start: Day (m/d/y) 10 01 2004 Time (h:m:s) 00 00 00

End: Day (m/d/y) 12 02 2004 Time (h:m:s) 23 59 59

GET

◉ Plot, y limits 0 0 All Data: ☐ (default: reduced to plot size)

○ Spreadsheet Status: ☐ (show channel status)

○ Matlab-Spreadsheet Fill: ☐ (step-func. interpolation)

○ Matlab Interpolate: 0 secs (linear)

Log Scale: ☐

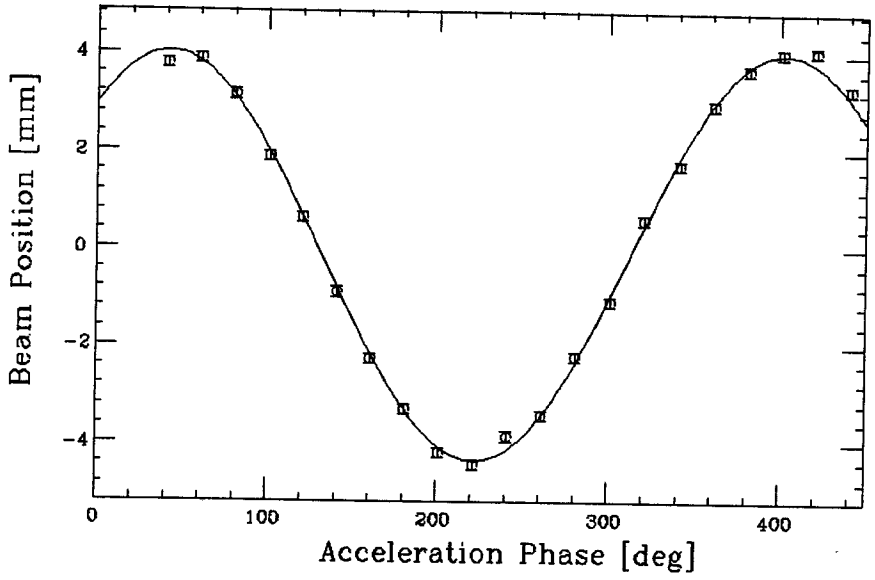
17:57. STUDY 再開.

BM-61-1 Current 132.845A
Energy 3.0019 GeV

~~3.3902~~
Energy knob 3.1014 -> 3.1031
X position ± 0.069 → Accept 3.802.

C-band accelerator module:

Amplitude = 4.198
PhaseOffset= -48.006
BaseLine = -0.167
Energy Gain = 40.953
Accel Field = 42.559



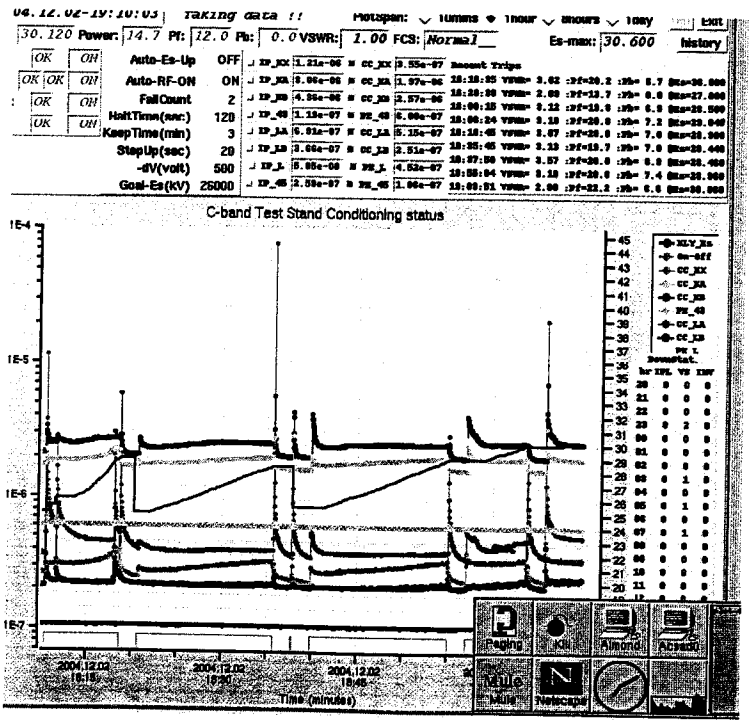
Es = 30.12 kV
Power = 14.7
Pf = 12.0

Egain = 42.6 MV/m

Pf-Ratio = $\frac{12.0}{9.2}$
= 1.30

Power-ratio = $\frac{14.7}{12.4}$
= 1.19

Egain-ratio = $\frac{42.56}{37.5}$
= 1.13
$(1.13)^2 = 1.29$



2004. Dec. 17

C-band ビーム加速試験

18:52
P.198

ARモード e⁻ビーム , 5Hz.

① BM-61-1 132.845A . 3.0019GeV

② FeedBack OFF.

③ SC-61-H ビームスポット o.k.

④ 軌道補正.

⑤ BPM 6P-S1-H
spdata -6 -f1

x (mm)	Y (mm)	I (nC)	dx (mm)	dY (mm)	dI (nC)
-0.953	0.163	0.192	0.114	0.08	0.001

Energy knob 3.1069 x (mm)
0.010 mm

ACC ON -3.620

⑥ KL-44-delay 7210にセット

position offset をつけて、Emaxを調べる。

⑦ STAND-BY x -0.038 mm → x -1.915 mm
Energy knob 3.1069 → 3.1301

ACC-ON x 1.666 mm → -0.604 mm

⑧ position 戻す。 Standby -0.122 → Acc 3.417 mm

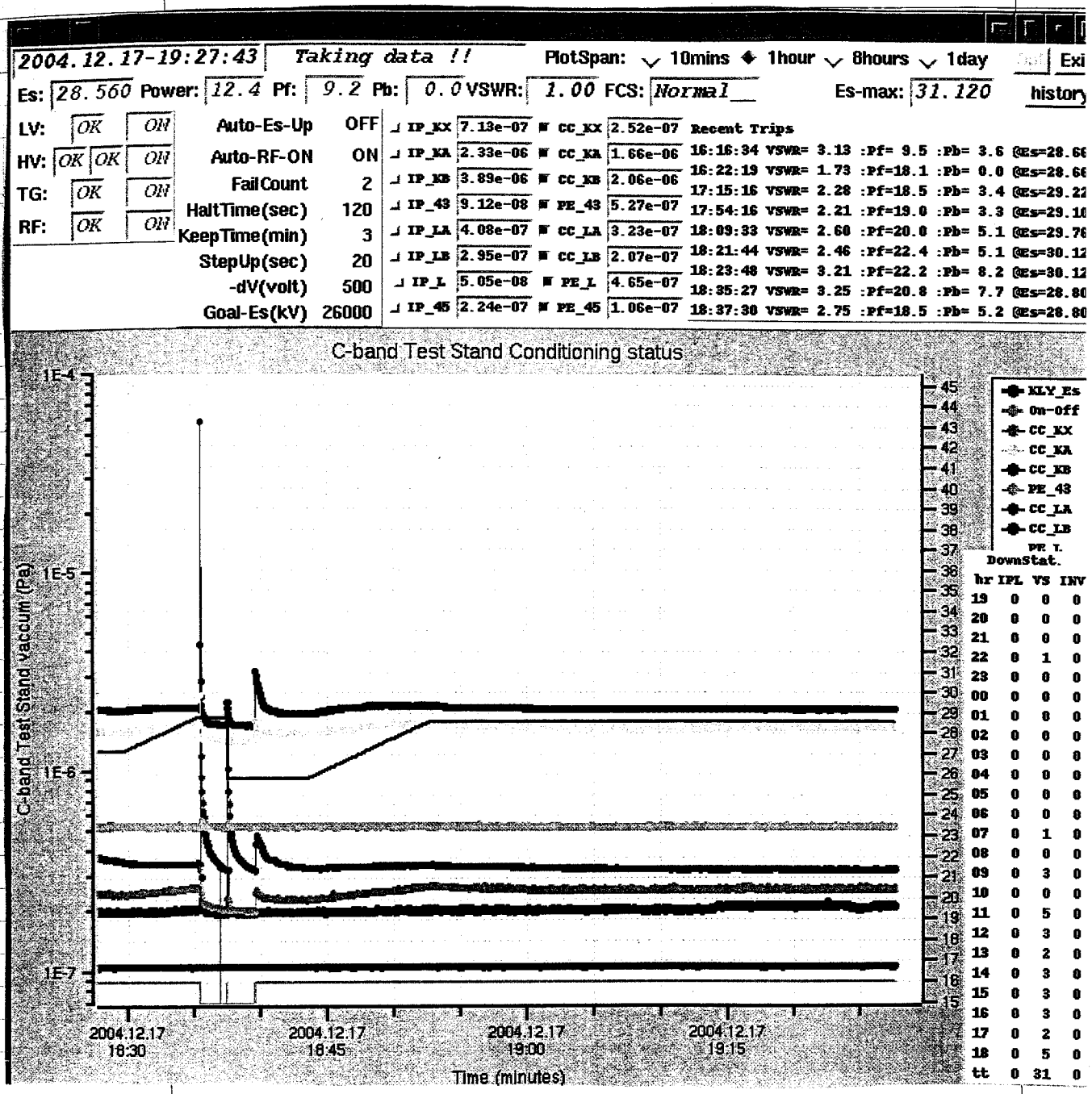
✓ BTラインのBPM値が読めない!

BTライン Qmagnet
QX01E M
QX 2E M
QX 3E D

Disp = -1.67m

読みかた シェルコマンドで
caget␣BTpBPM:0-1:XPOS

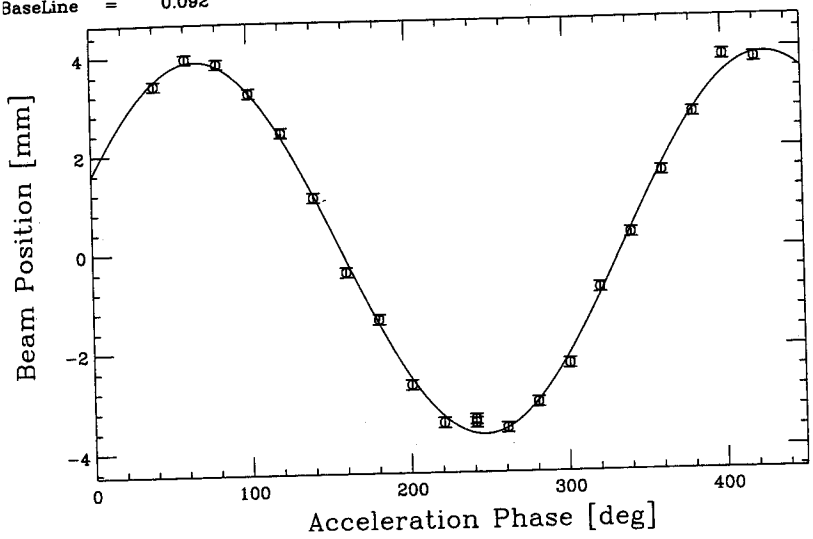
0.5% 3000 GeV
~~100~~
10 MeV


2004.12.17-19:27:43
Taking data !!
PlotSpan: 10mins 1hour 8hours 1day
Exi
Es: 28.560 Power: 12.4 Pf: 9.2 Pb: 0.0 VSWR: 1.00 FCS: Normal
Es-max: 31.120
history
LV: OK ON
HV: OK OK ON
TG: OK ON
RF: OK ON
Auto-Es-Up OFF
Auto-RF-ON ON
FailCount 2
HaltTime(sec) 120
KeepTime(min) 3
StepUp(sec) 20
-dV(volt) 500
Goal-Es(kV) 26000
IP_KX 7.13e-07 CC_KX 2.52e-07
IP_KA 2.33e-06 CC_KA 1.66e-06
IP_KB 3.89e-06 CC_KB 2.06e-06
IP_43 9.12e-08 PE_43 5.27e-07
IP_LA 4.08e-07 CC_LA 3.23e-07
IP_LB 2.95e-07 CC_LB 2.07e-07
IP_L 5.05e-08 PE_L 4.65e-07
IP_45 2.24e-07 PE_45 1.06e-07
Recent Trips
16:16:34 VSWR= 3.13 :Pf= 9.5 :Pb= 3.6 @Es=28.6
16:22:19 VSWR= 1.73 :Pf=18.1 :Pb= 0.0 @Es=28.6
17:15:16 VSWR= 2.28 :Pf=18.5 :Pb= 3.4 @Es=29.2
17:54:16 VSWR= 2.21 :Pf=19.0 :Pb= 3.3 @Es=29.1
18:09:33 VSWR= 2.60 :Pf=20.0 :Pb= 5.1 @Es=29.7
18:21:44 VSWR= 2.46 :Pf=22.4 :Pb= 5.1 @Es=30.1
18:23:48 VSWR= 3.21 :Pf=22.2 :Pb= 8.2 @Es=30.1
18:35:27 VSWR= 3.25 :Pf=20.8 :Pb= 7.7 @Es=28.8
18:37:30 VSWR= 2.75 :Pf=18.5 :Pb= 5.2 @Es=28.8
C-band Test Stand Conditioning status
C-band Test Stand vaccum (Pa)
1E-4
1E-5
1E-6
1E-7
45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15
2004.12.17 16:30
2004.12.17 16:45
2004.12.17 19:00
2004.12.17 19:15
Time (minutes)
KLY_Es
On-off
CC_KX
CC_KA
CC_KB
PE_43
CC_LA
CC_LB
PE_L
DownStat.
hr IPL VS INV
19 0 0 0
20 0 0 0
21 0 0 0
22 0 1 0
23 0 0 0
00 0 0 0
01 0 0 0
02 0 0 0
03 0 0 0
04 0 0 0
05 0 0 0
06 0 0 0
07 0 1 0
08 0 0 0
09 0 3 0
10 0 0 0
11 0 5 0
12 0 3 0
13 0 2 0
14 0 3 0
15 0 3 0
16 0 3 0
17 0 2 0
18 0 5 0
tt 0 31 0

205

X-band accelerator module:

Amplitude = 3.792
PhaseOffset= -23.325
BaseLine = 0.092
Energy Gain = 36.997
Accel Field = 38.449



Es = 28.56 kV

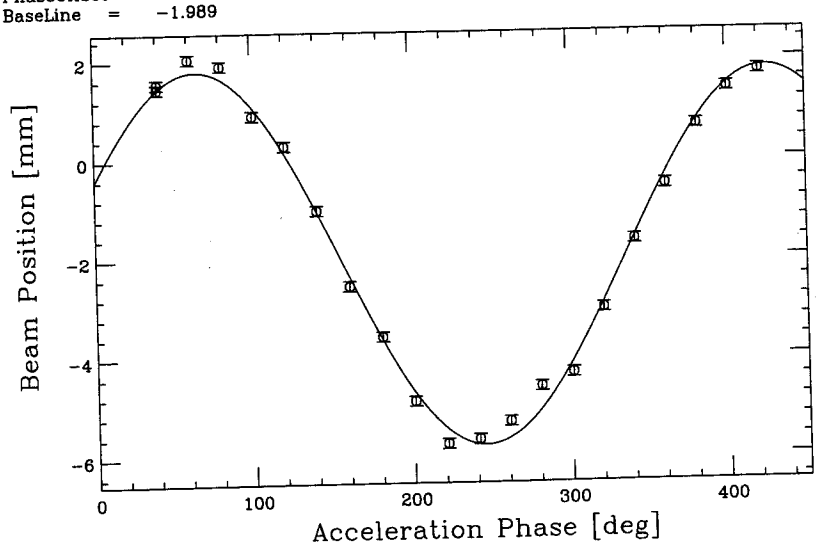
Powel = 12.4

Pf = 9.2

Egain = 38.5449

C-band accelerator module:

Amplitude = 3.785
PhaseOffset= -24.826
BaseLine = -1.989
Energy Gain = 36.927
Accel Field = 38.376

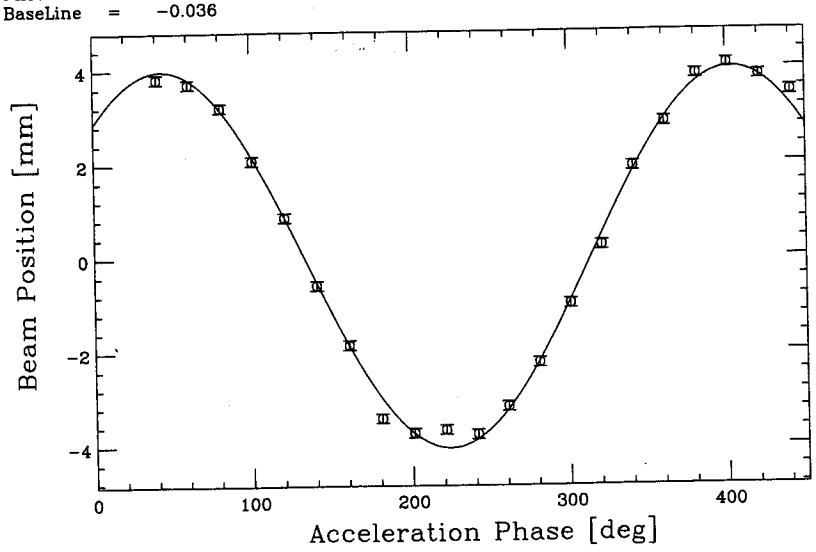


BPM -2mm offset

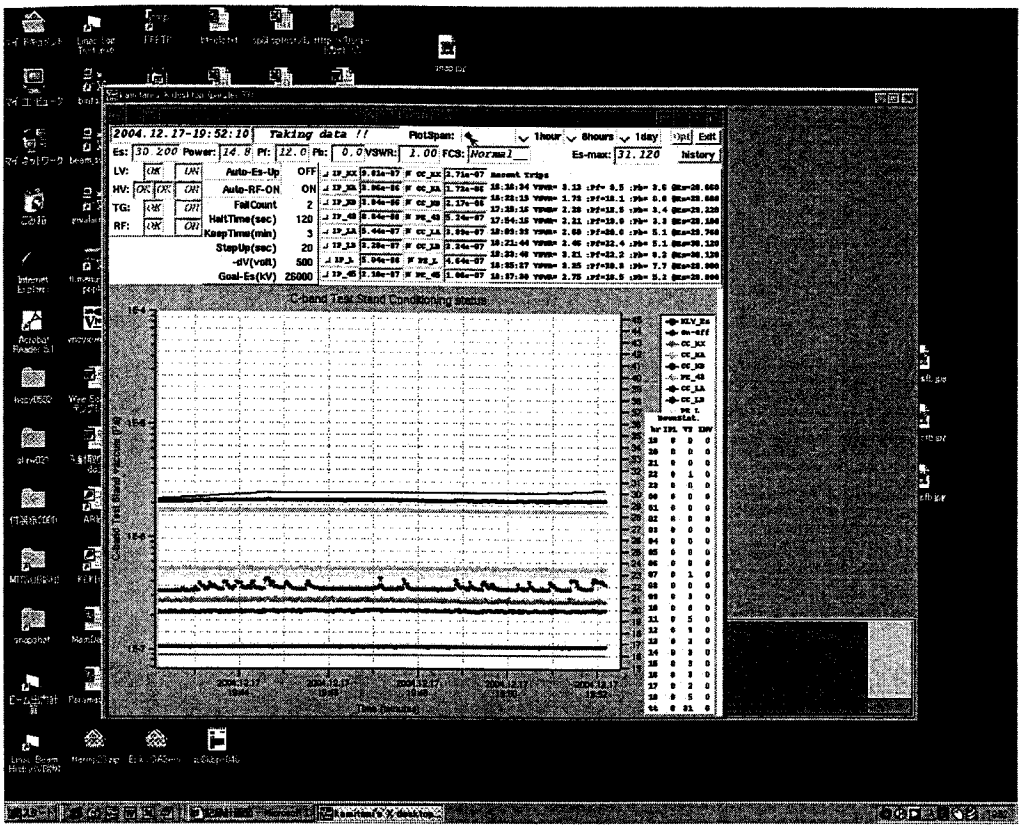
~~BPM offset~~.

C-band accelerator module:

Amplitude = 4.015
PhaseOffset= -46.288
BaseLine = -0.036
Energy Gain = 39.171
Accel Field = 40.708



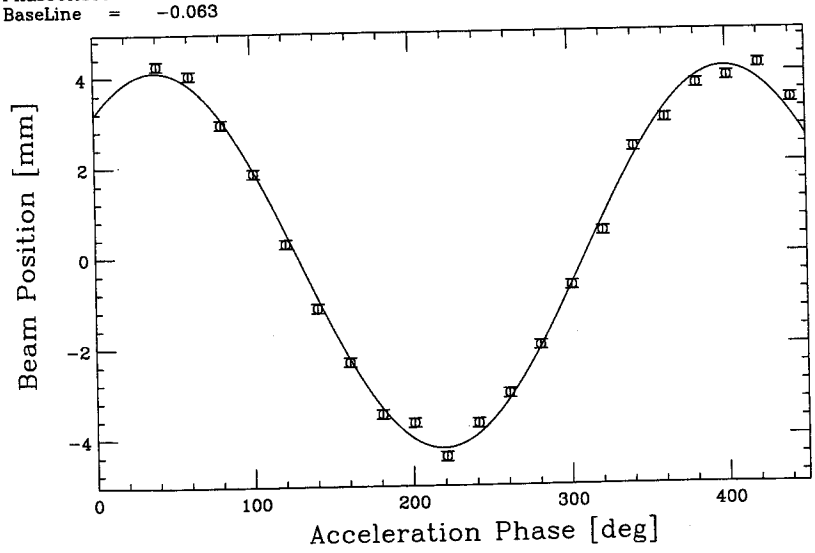
Es = 30.00 kV



C-band accelerator module:

Amplitude = 4.163
PhaseOffset= -50.873
BaseLine = -0.063

Energy Gain = 40.617
Accel Field = 42.211

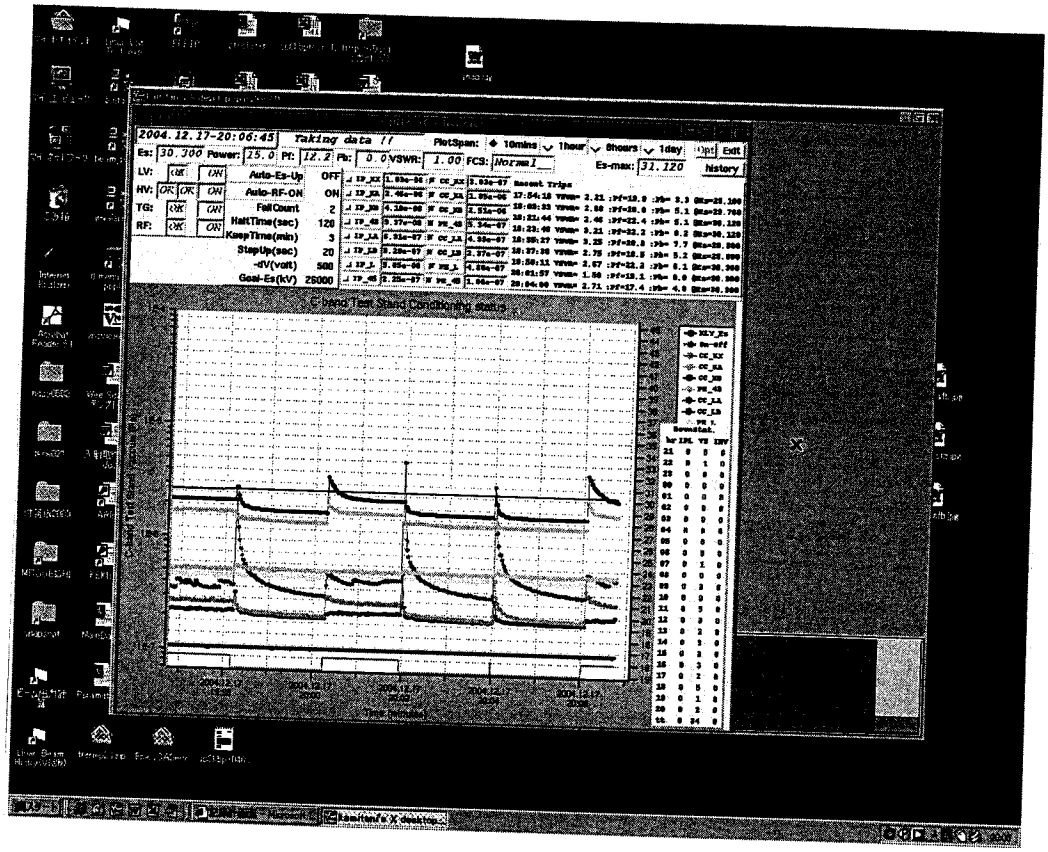


Es = 30.2 kV

Power = 14.8

Pf = 12.0

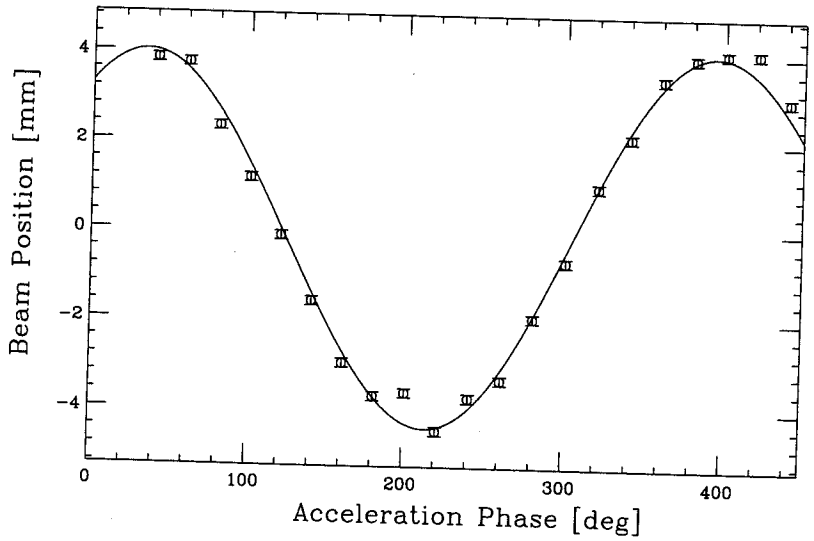
Egain = 42.2 MV/m



C-band accelerator module:

Amplitude = 4.224
PhaseOffset= -55.682
BaseLine = -0.204

Energy Gain = 41.213
Accel Field = 42.830

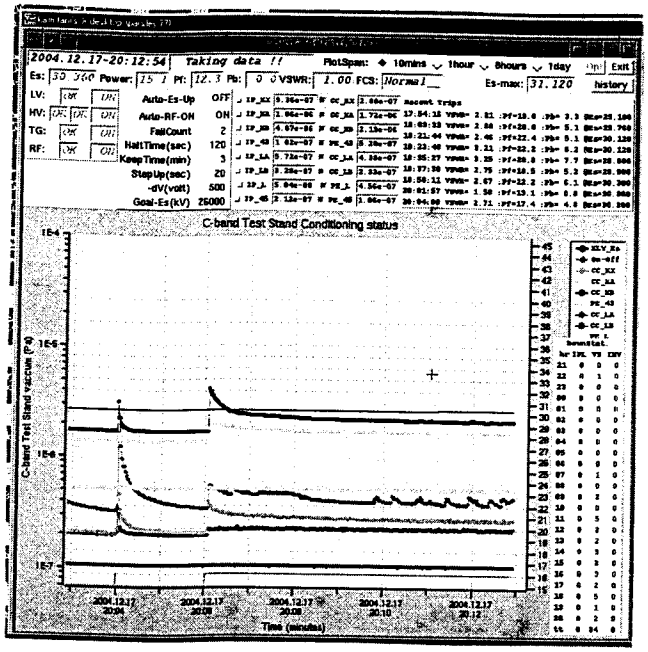


Es = 30.3 kV

Power = 15 MW

Pf = 12.2 MW

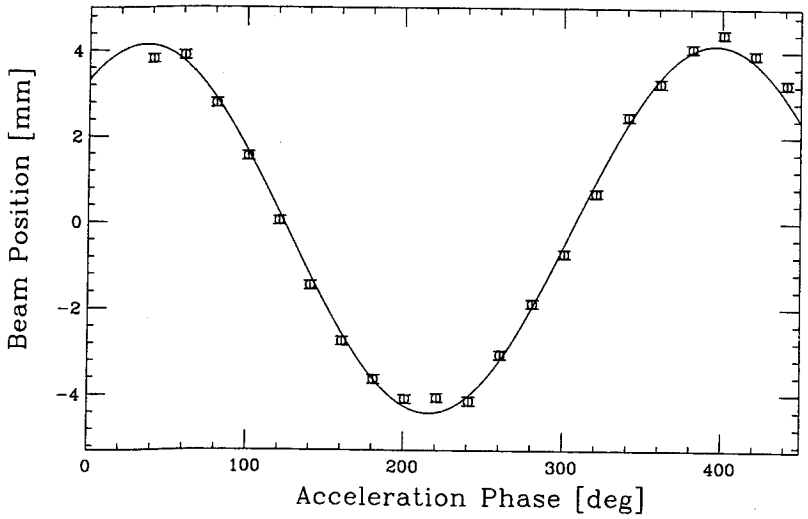
Egain = 42.8 MV/m



C-band accelerator module:

Amplitude = 4.292
PhaseOffset= -53.943
BaseLine = -0.149

Energy Gain = 41.872
Accel Field = 43.515



Es = 30.36
Power = 15
Pf = 12.
Egain = 43