

**Report from SLAC
for CLIC-SLAC-KEK Collaboration Meeting**

March 27 , 2009

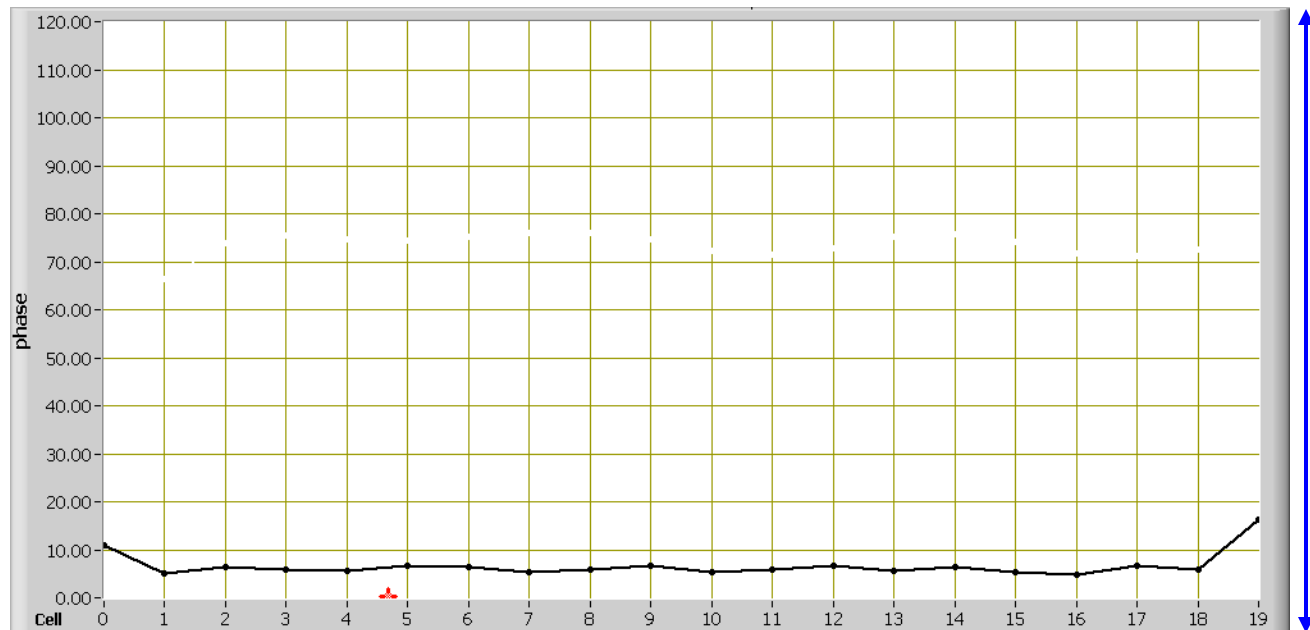
1. T18_VG2.4_DISK #3 and #4
 - T18_VG2.4_DISK #4 (or KEK #2) assembly completed and tuned.
 - Vacuum baking together starting today.
 - Installation of T18_VG2.4_DISK #3 at NLCTA in week of April 13.
2. C10 Structures:
C10_VG 0.7 #1, #2 and 2 x C10_VG 1.35 #1, #2
 - Mechanical QC completed.
 - Microwave stack measurements parts (modified stack QC parts) will be ready next week.C10_VG 2.25 #1, #2 and 2 x C10_VG 3.3 #1, #2
 - Addendum 4 is submitted.
3. Collaboration with HRC for bridge protected high power tests. (using T18_VG2.4_DISK #1. Accurate measurements of S12 flange-to-flange will be done for resonant ring design.)
4. Addendum 5 is submitted. (Miscellaneous Expenses in Building and Testing X-Band Accelerators and RF Structures)
5. Plan to retest TD18_VG2.4_QUAD in ASTA
 - Chemical cleaning done.
 - Hydrogen firing.
 - Vacuum baking.
 - Reassembly and microwave check in April.

Cumulated Phase Shift for T18_vg2.4_KEK #2

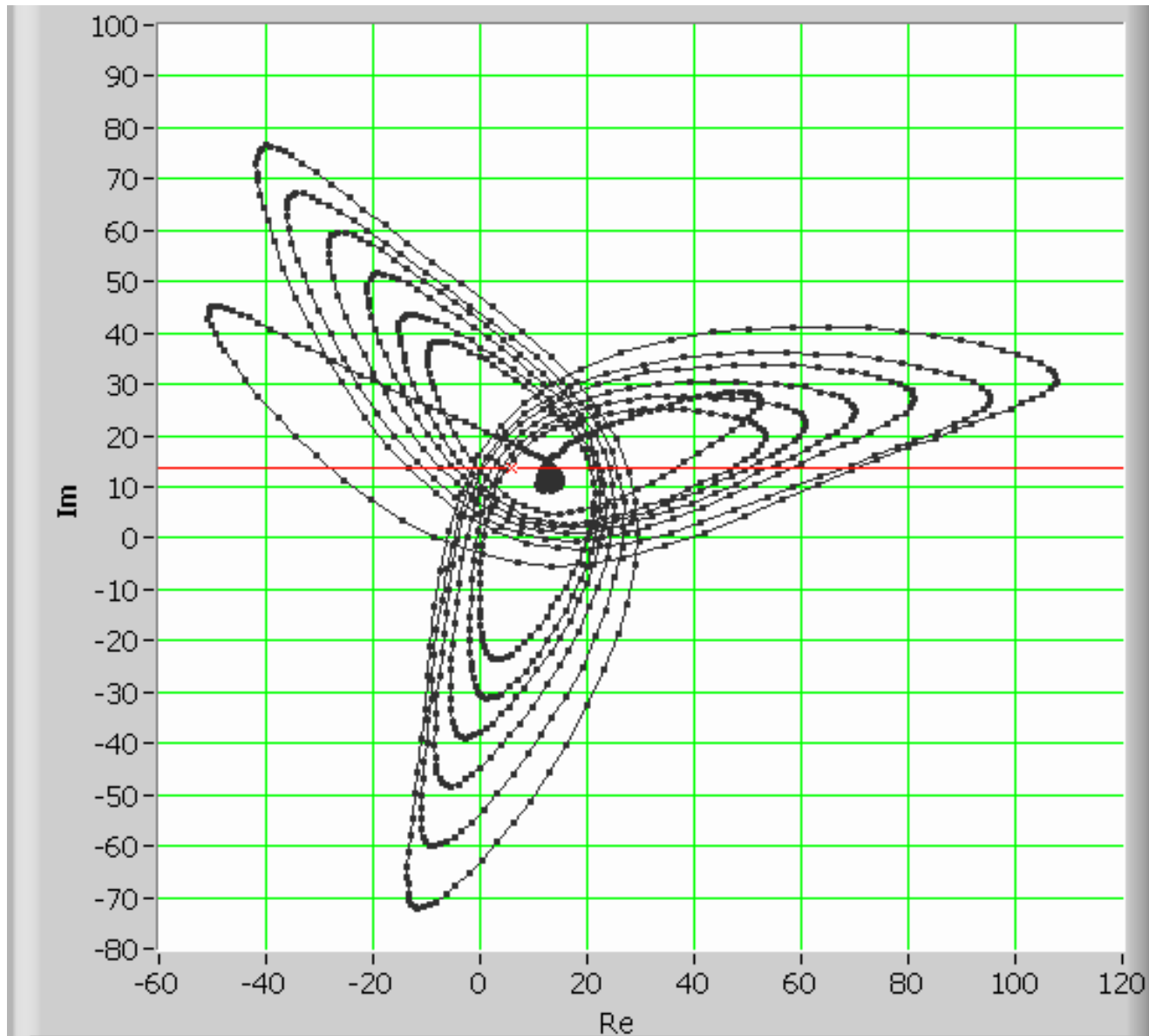
Before Tuning
11421.7 MHz
at 20.9° C, N₂



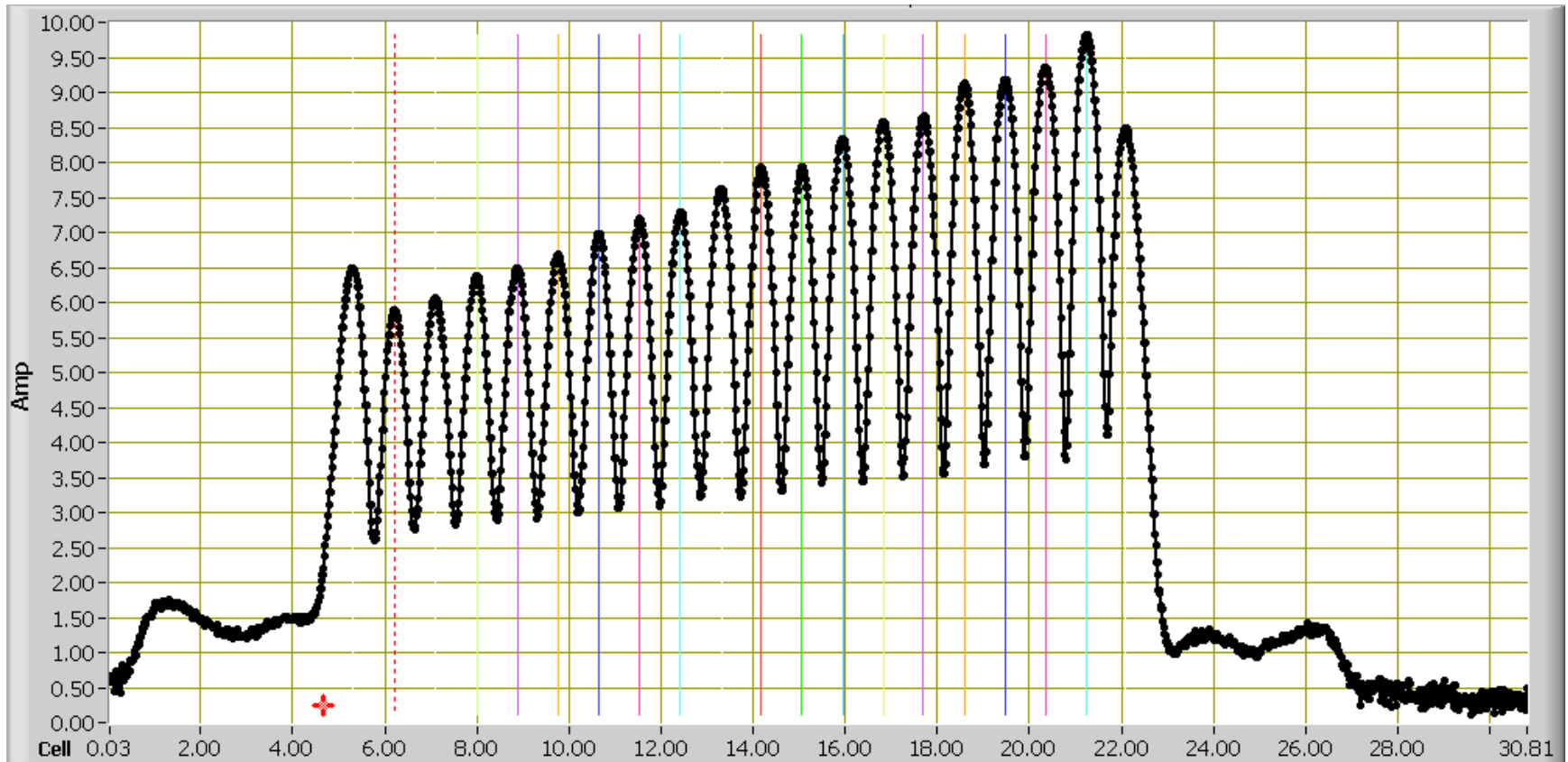
After Tuning
11421.28 MHz
at 22.3° C, N₂



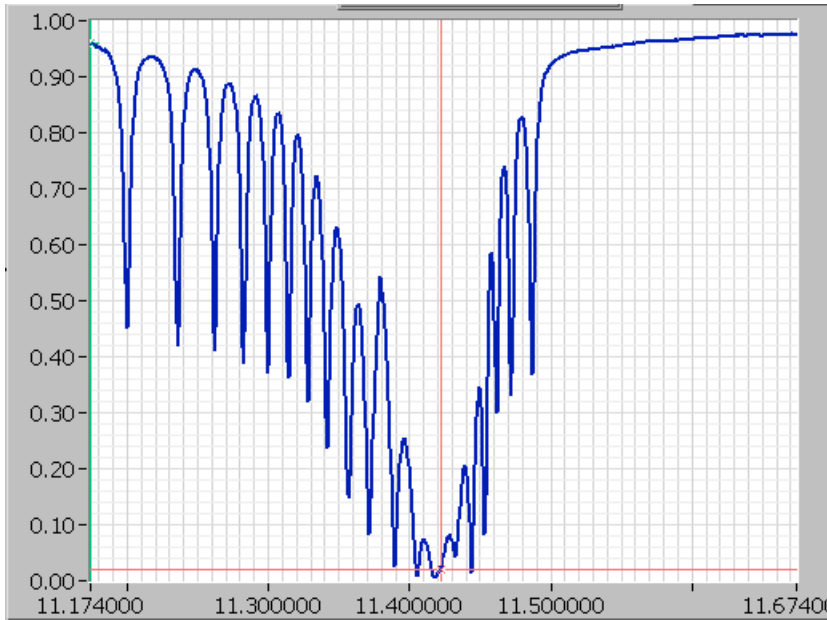
Complex S11 of Final Measurements for T18_vg2.4_DISC KEK #2



Electrical Field Amplitude for T18_vg2.4_DISC KEK #2



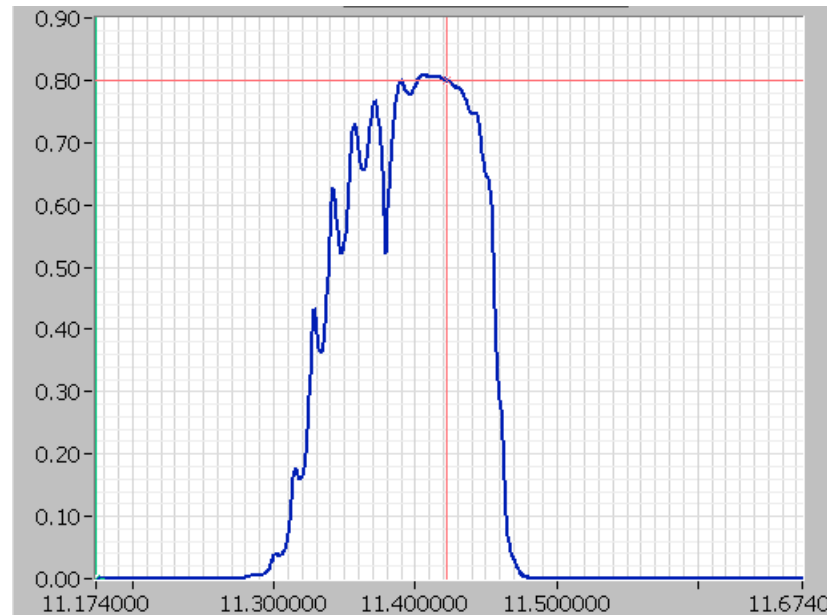
S-Parameters of Final Measurements



$S_{11}=0.043$



$S_{22}=0.039$



$S_{12}=0.80$