

**B1/V1/L1/P1/J1/T1:**

**2G:**

B3/B8

**3G:**

B1/B8

**4G:**

B1/B3/B7/B8/B20/B28A/B38/B40/B41(120M)

**D1/M1/Q1:**

**2G:**

B2/B3/B5/B8

**3G:**

B1/B5/B8

**4G:**

B1/B3/B5/B8/B38/B40/B41(120M)

**N1/F1/R1:**

**2G:**

B2/B3/B5/B8

**3G:**

B1/B5/B8

**4G:**

B1/B3/B5/B8/B28/B38/B40/B41(Full)

**H1/O1/S1/K1/U1:**

**2G:**

B2/B3/B5/B8

**3G:**

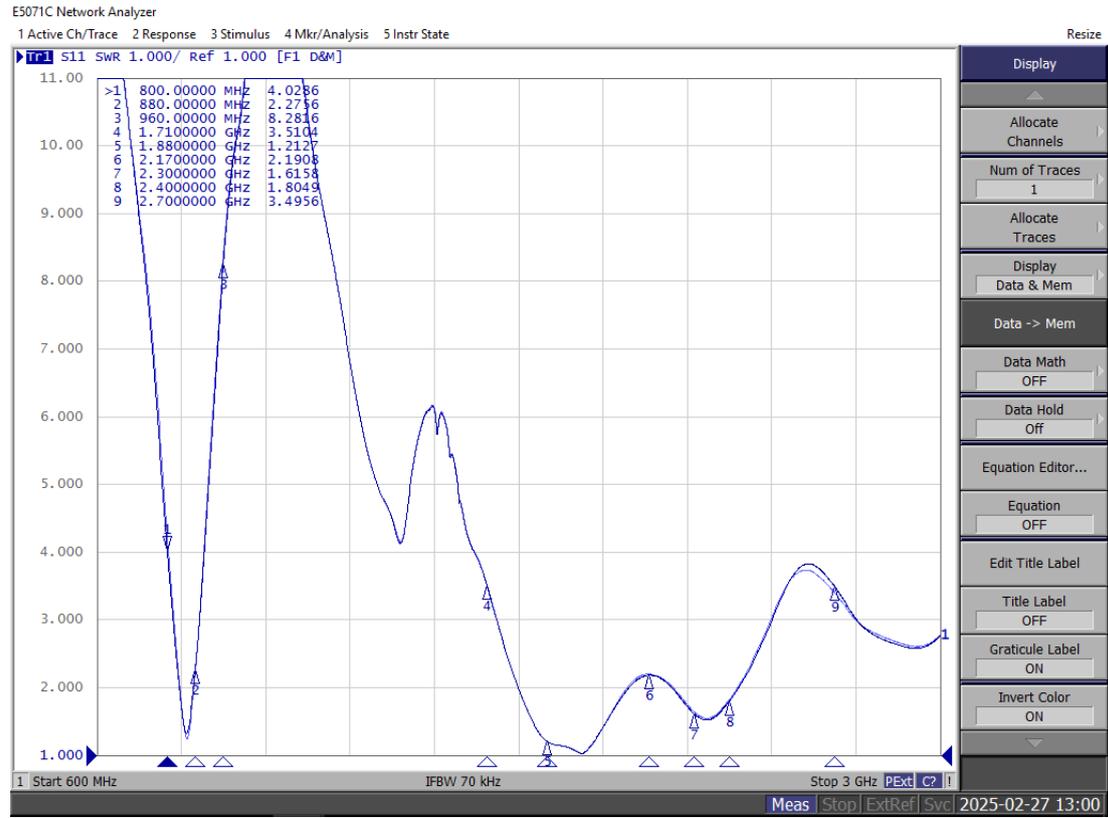
B1/B2/B4/B5/B8

**4G:**

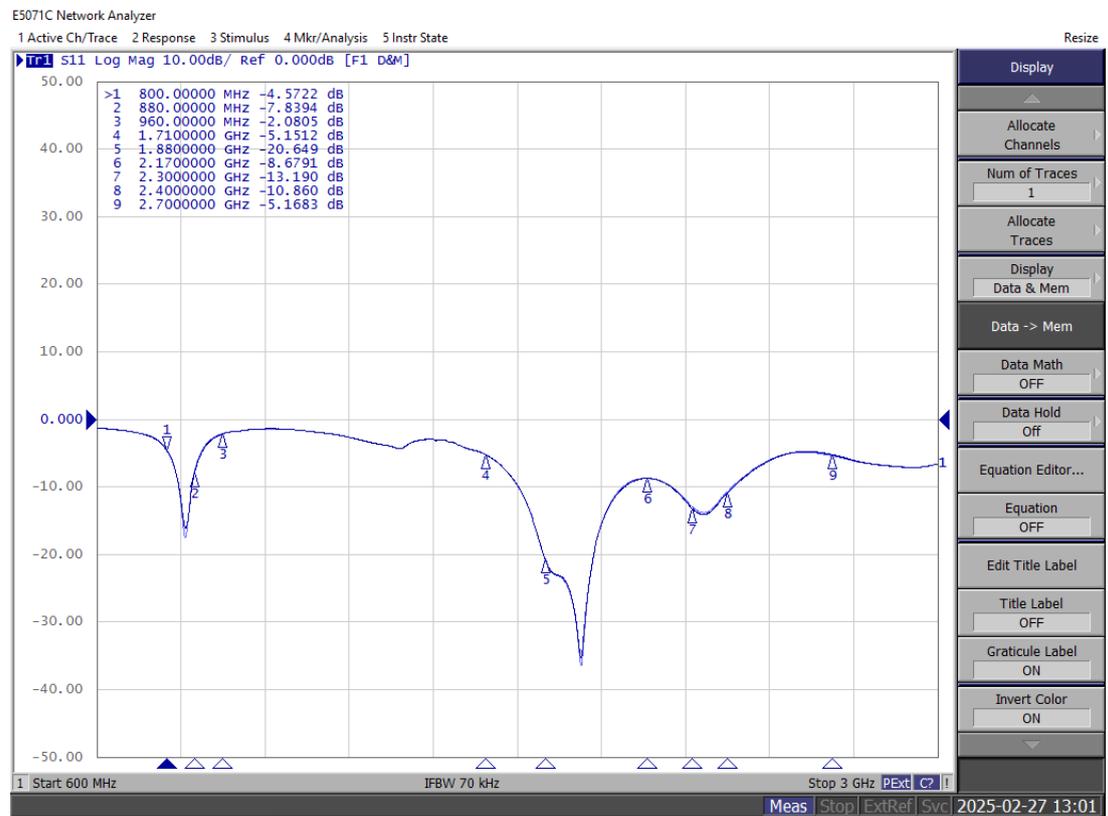
B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28A/B28B/B38/B40/B41(120M)/B66

# Top Antenna

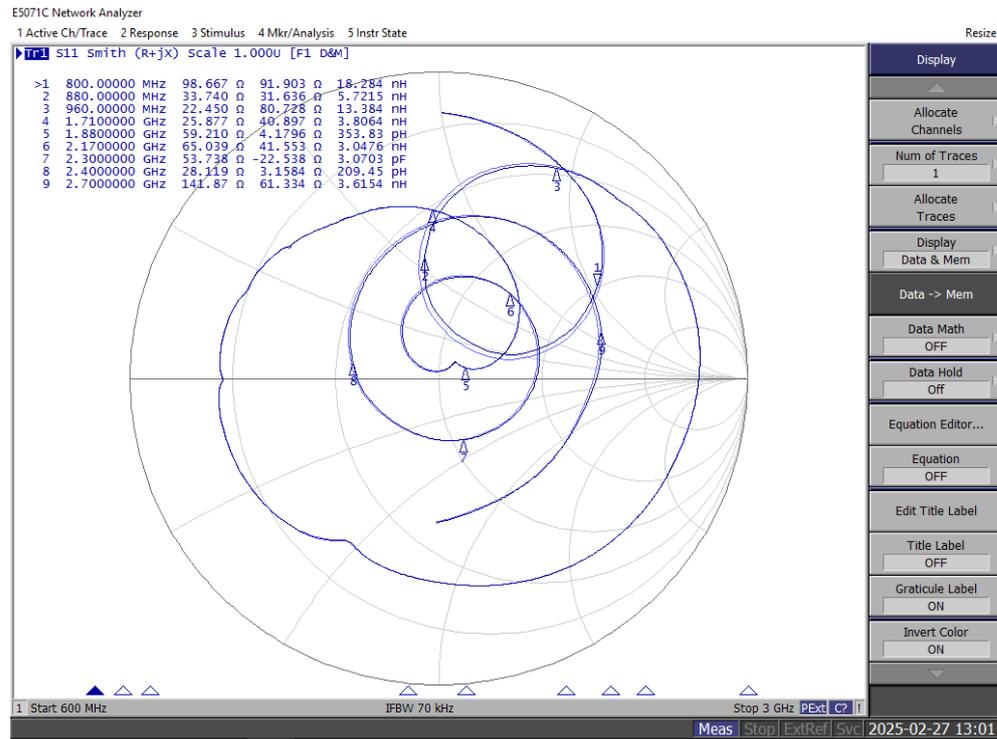
## VSWR:



## RL:



## SMITH:



## Top Antenna gain:

GSM 850 average: -5dBi;  
 EGSM 900 average: -6dBi;  
 DCS1800 average: -4dBi;  
 PCS1900 average: -3dBi;  
 WCDMA B1 average: -3dBi;  
 WCDMA B2 average: -3dBi;  
 WCDMA B4 average: -4dBi;  
 WCDMA B5 average: -5dBi;  
 WCDMA B8 average: -6dBi;  
 LTE FDD B1 average: -3dBi;  
 LTE FDD B2 average: -3dBi;  
 LTE FDD B3 average: -4dBi;  
 LTE FDD B4 average: -4dBi;  
 LTE FDD B5 average: -5dBi;  
 LTE FDD B7 average: -2dBi;  
 LTE FDD B8 average: -6dBi;  
 LTE FDD B12 average: -6dBi;  
 LTE FDD B17 average: -6dBi;  
 LTE FDD B20 average: -5dBi;  
 LTE FDD B28 average: -6dBi;  
 LTE FDD B38 average: -2dBi;  
 LTE TDD B40 average: -3dBi;  
 LTE TDD B41 average: -2dBi;  
 LTE FDD B66 average: -4dBi;

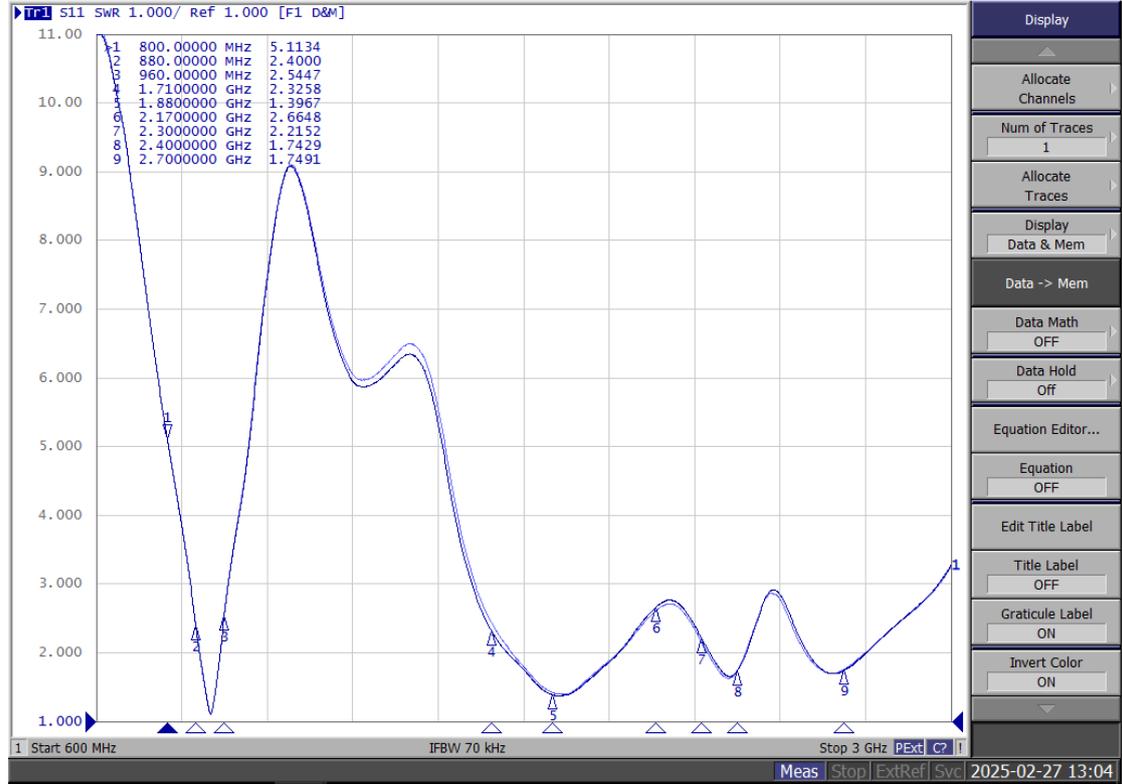
## Bottom Antenna:

### VSWR:

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize

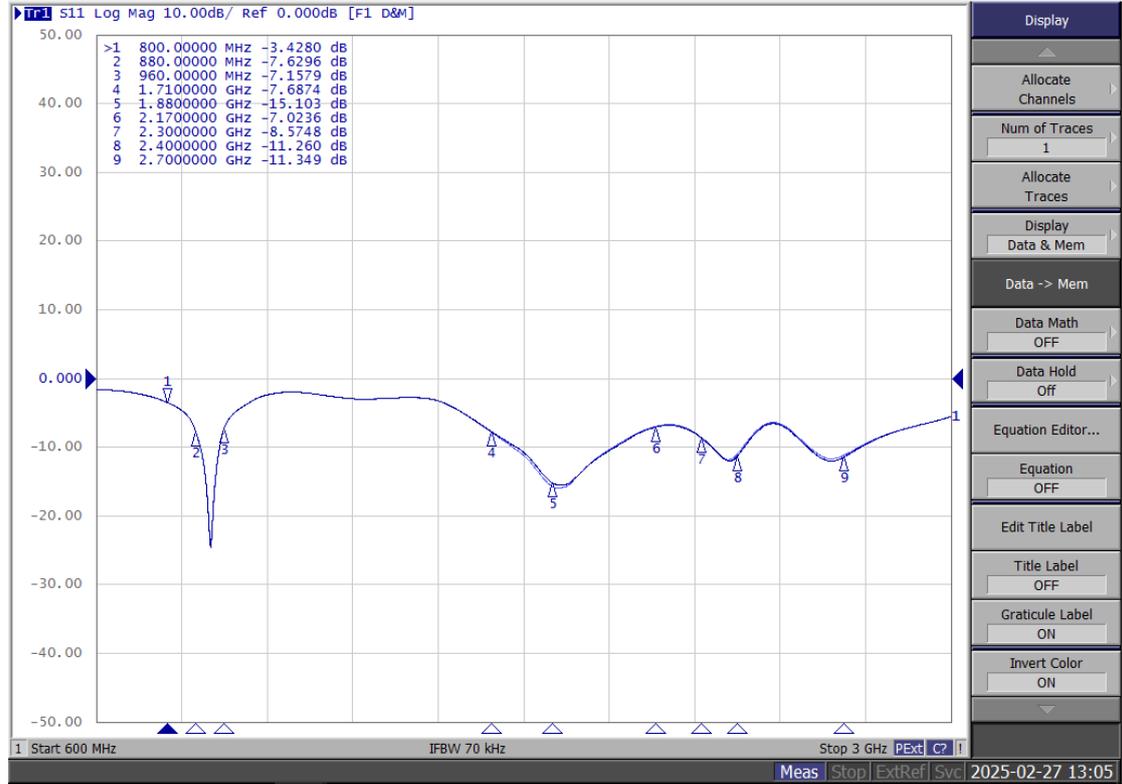


### RL:

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize

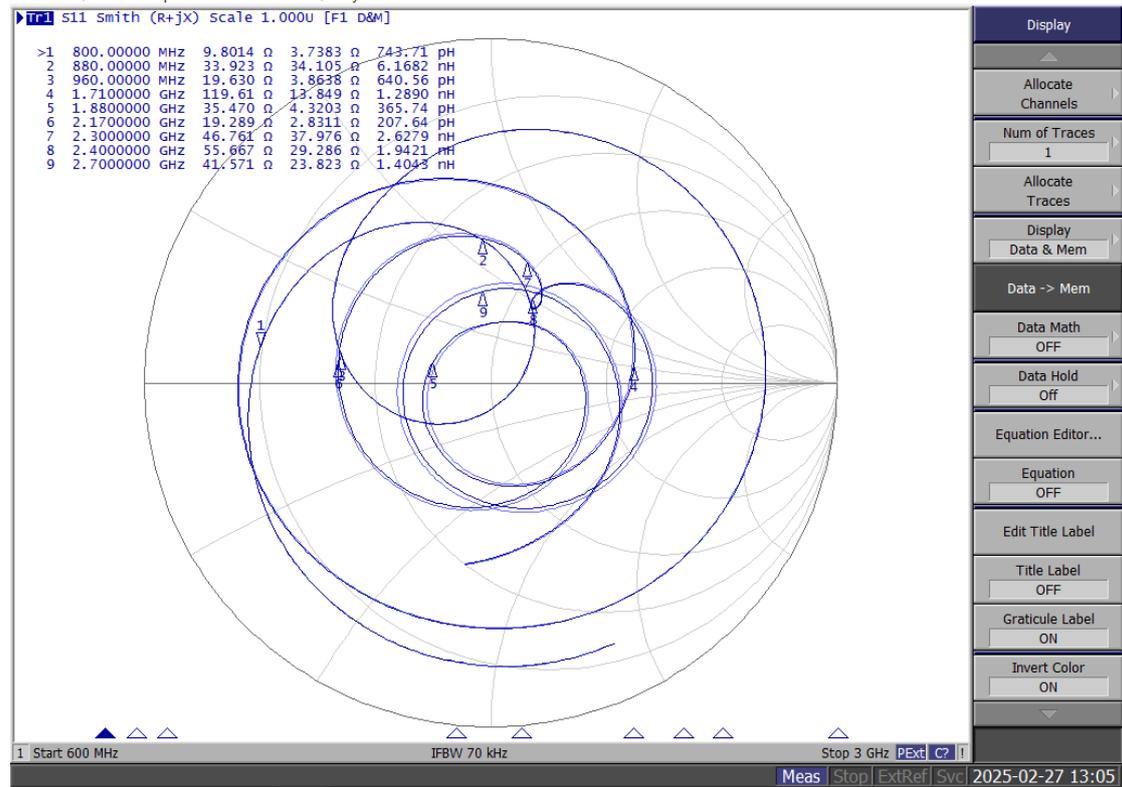


## SMITH:

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize

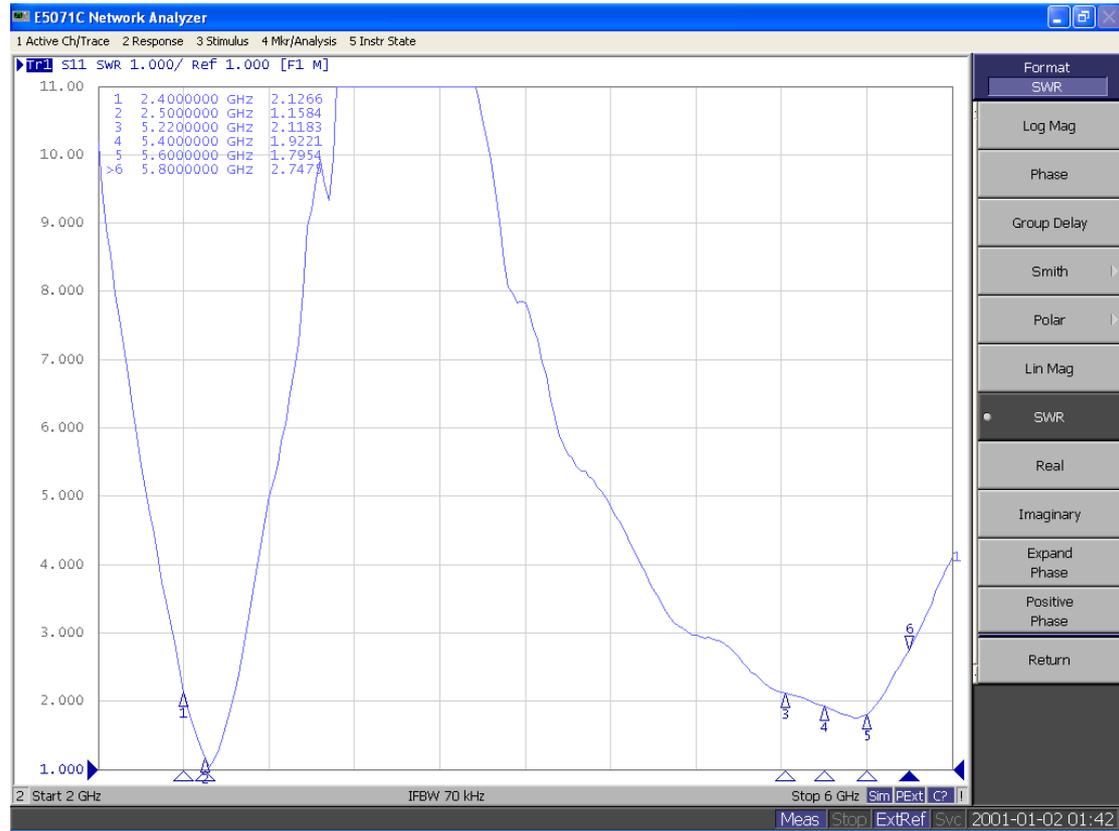


### Bottom Antenna gain (Default):

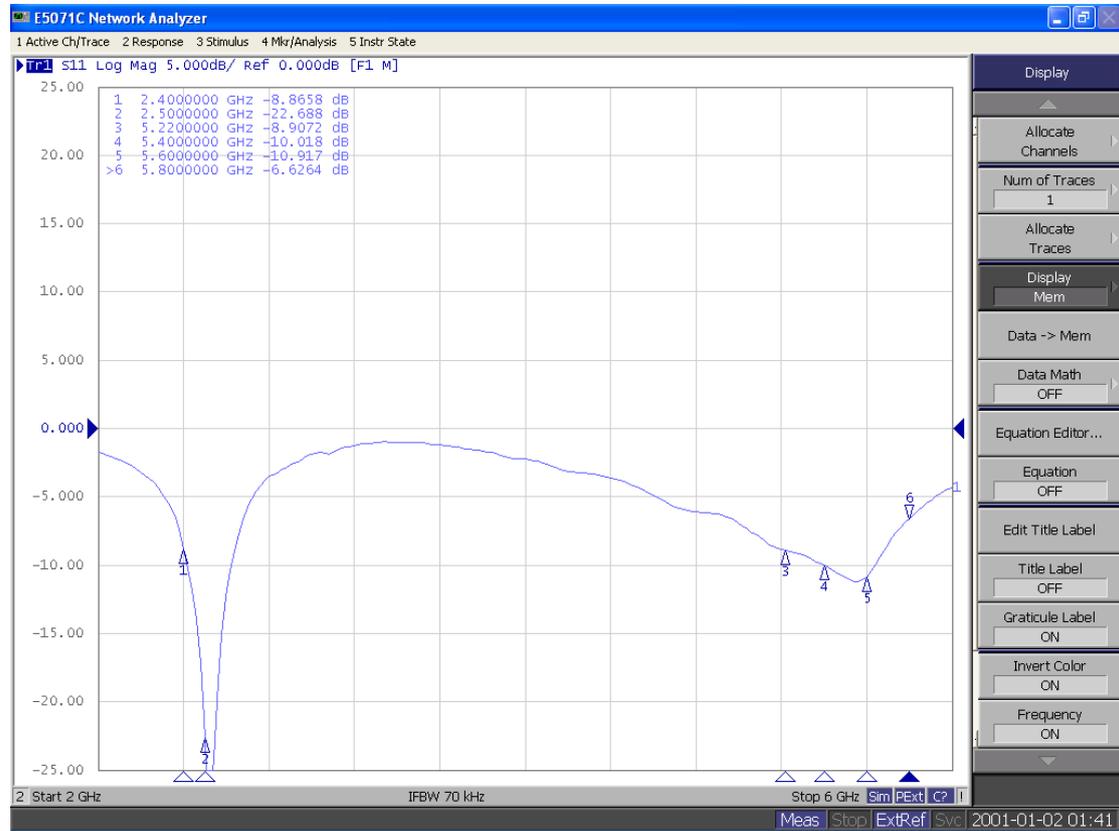
GSM 850 average: -6dBi;  
EGSM 900 average: -8dBi;  
DCS1800 average: -2dBi;  
PCS1900 average: -2dBi;  
WCDMA B1 average: -2dBi;  
WCDMA B2 average: -2dBi;  
WCDMA B4 average: -2dBi;  
WCDMA B5 average: -6dBi;  
WCDMA B8 average: -8dBi;  
LTE FDD B1 average: -2dBi;  
LTE FDD B2 average: -2dBi;  
LTE FDD B3 average: -2dBi;  
LTE FDD B4 average: -2dBi;  
LTE FDD B5 average: -6dBi;  
LTE FDD B7 average: -2dBi;  
LTE FDD B8 average: -8dBi;  
LTE FDD B12 average: -5dBi;  
LTE FDD B17 average: -5dBi;  
LTE FDD B20 average: -5dBi;  
LTE FDD B28 average: -5dBi;  
LTE FDD B66 average: -2dBi;  
LTE FDD B38 average: -2dBi;  
LTE TDD B40 average: -2dBi;  
LTE TDD B41 average: -2dBi;

### BT/2.4GWIFI/5GWIFI antenna:

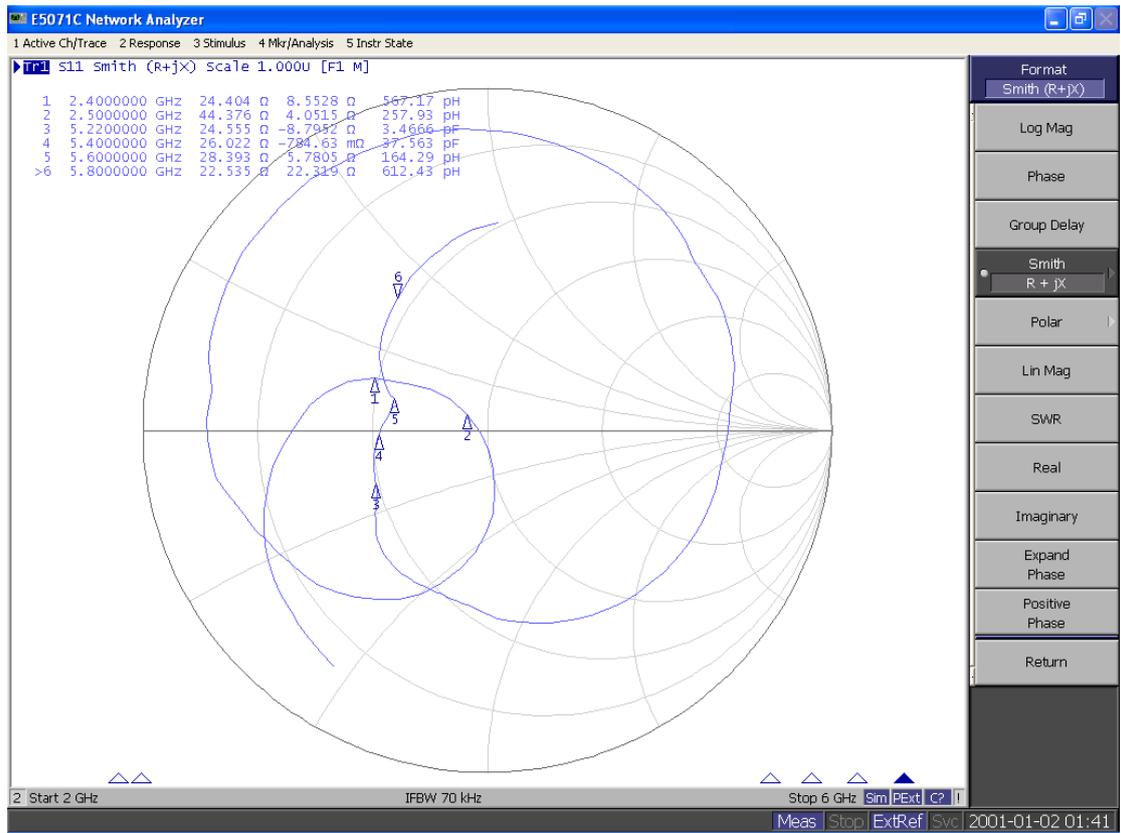
### VSWR:



### RL:



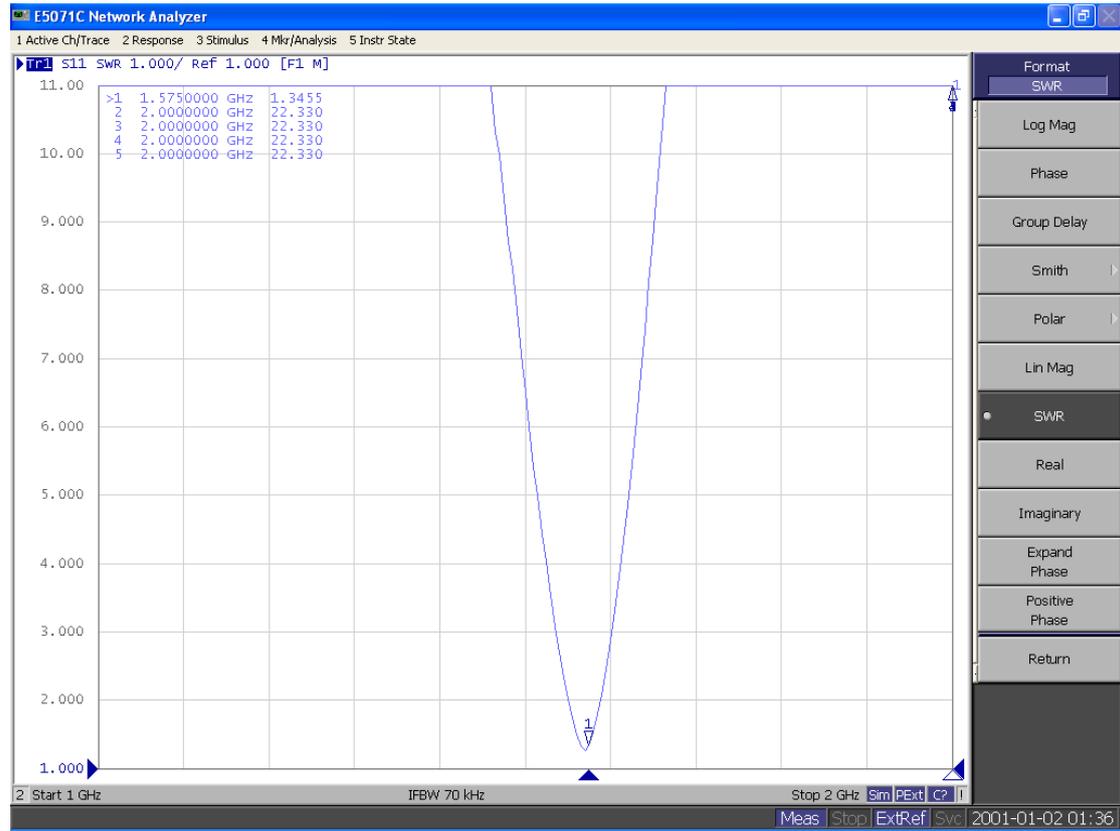
SMITH:



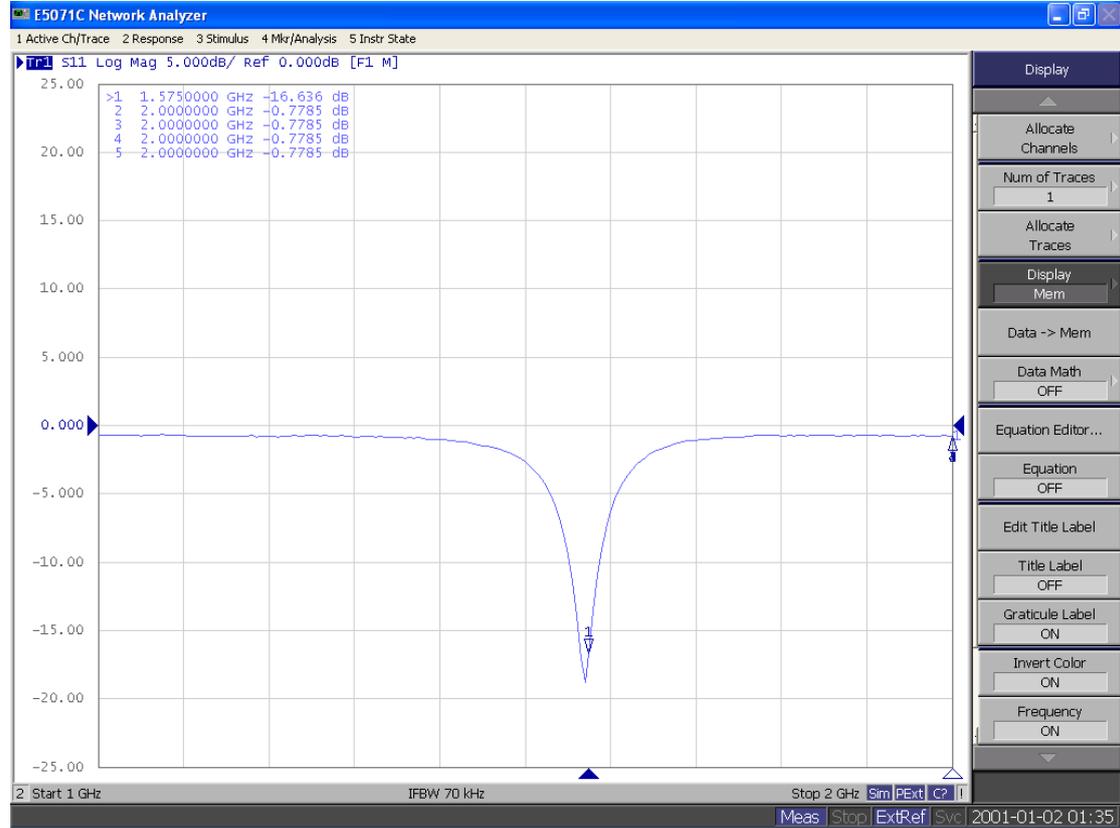
MAX gain about BT/2.4GWIFI/5GWIFI antenna:  
 BT/2.4GWIFI: 1dBi;  
 5G WIFI:-2 dBi;

GPS (1.57542Ghz) antenna:

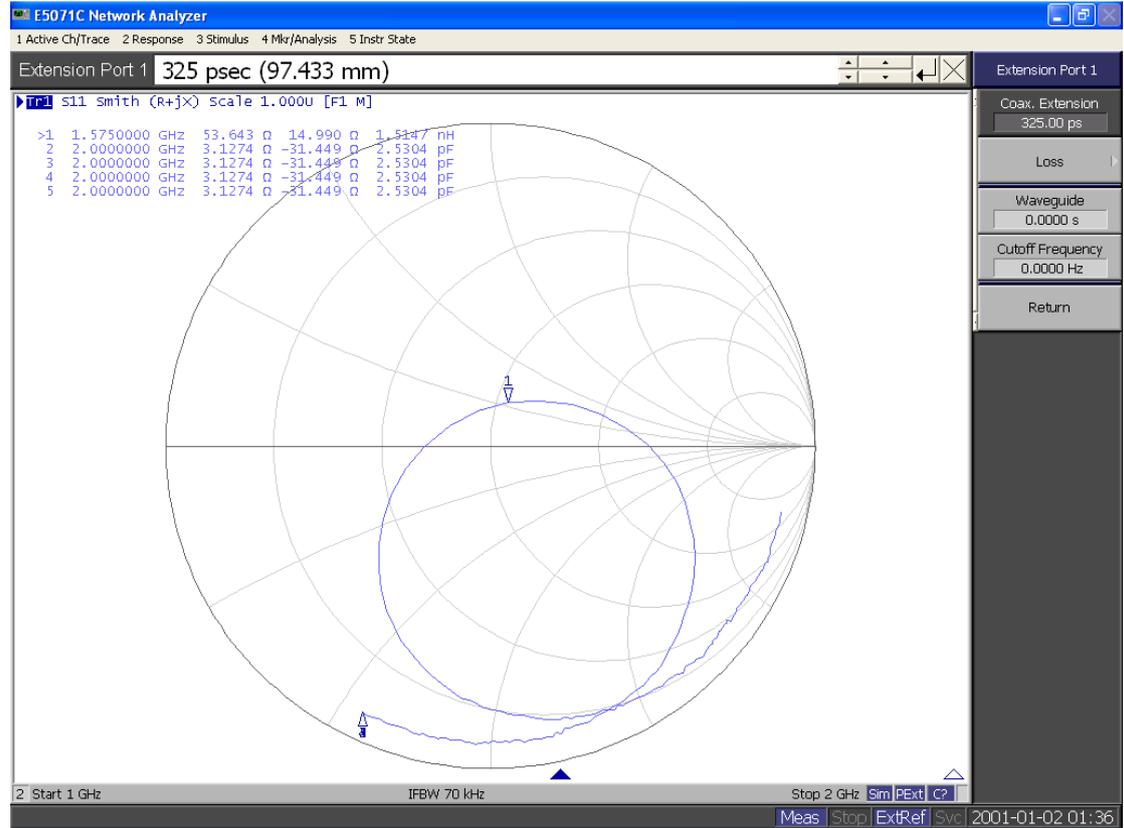
VSWR:



RL:



SIMITH:



GPS (1.57542Ghz) gain: -2dBi;

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