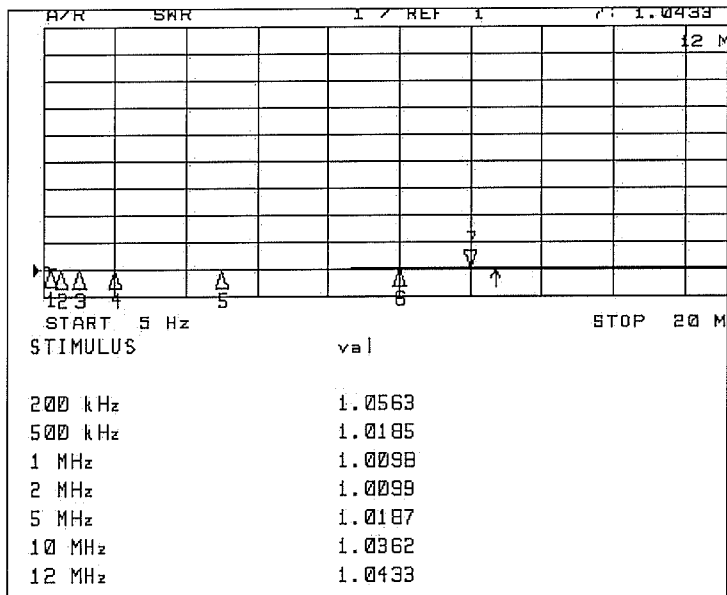
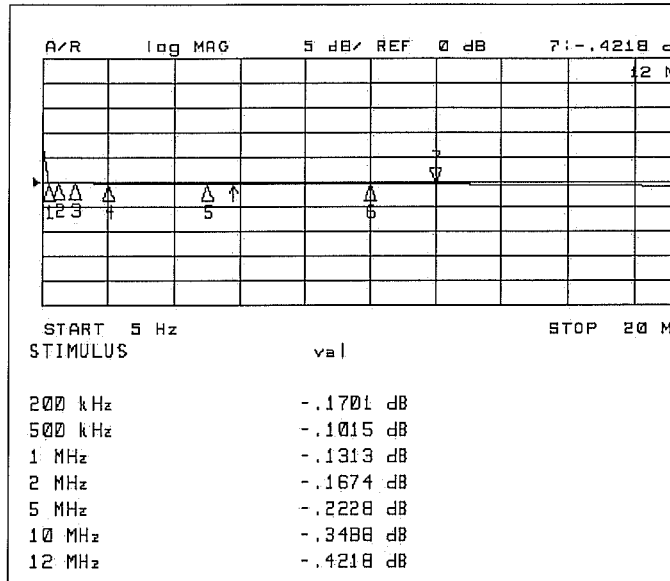


**REF/FWD MEASURING 50 OHM REFERENCE LOAD**

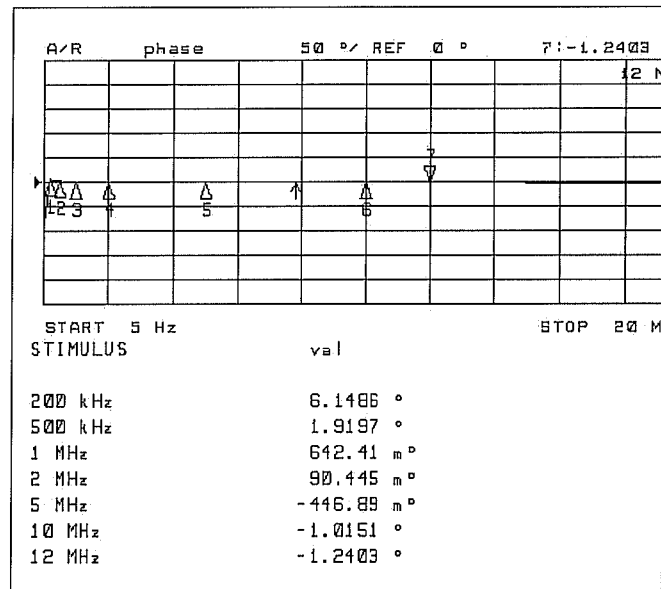


**INSERTION VSWR WITH 50 OHM REFERENCE LOAD**

**TUNWALL RADIO 0.2 – 12 MHZ DUAL DIRECTIONAL COUPLER  
MEASURED WITH H-P 8751A NETWORK ANALYZER**

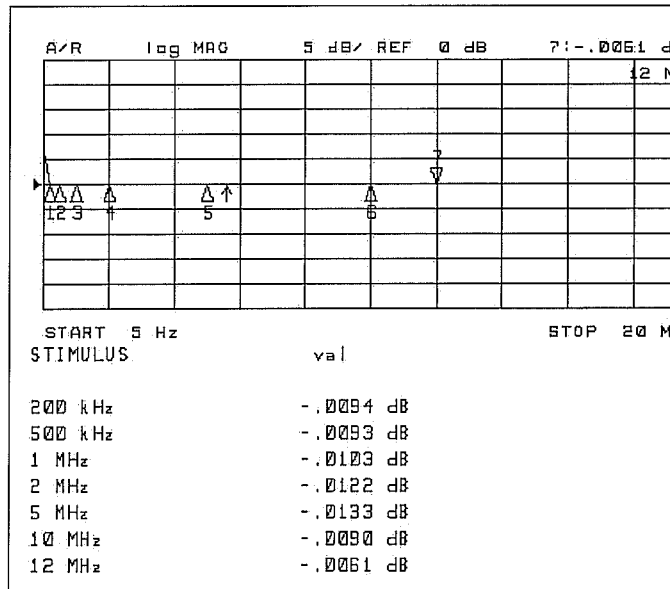


**REF/FWD MEASURING OPEN CIRCUIT**

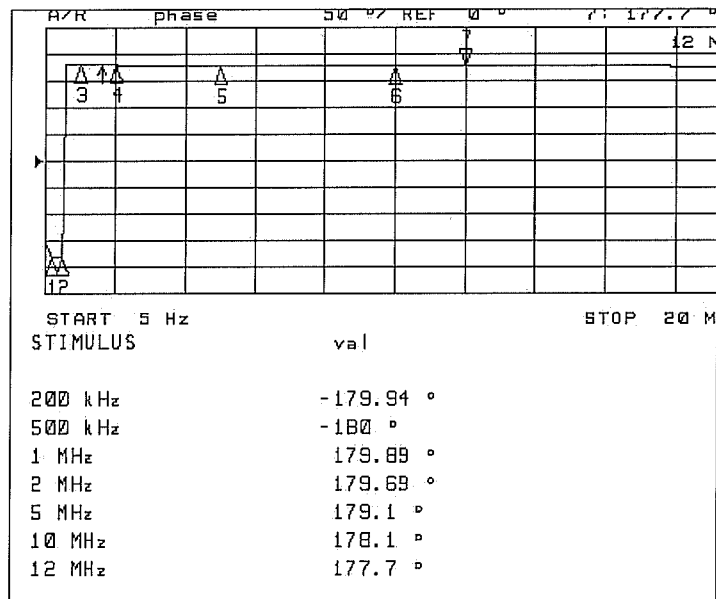


**REF - FWD PHASE MEASURING OPEN CIRCUIT**

**TUNWALL RADIO 0.2 – 12 MHZ DUAL DIRECTIONAL COUPLER  
MEASURED WITH H-P 8751A NETWORK ANALYZER**

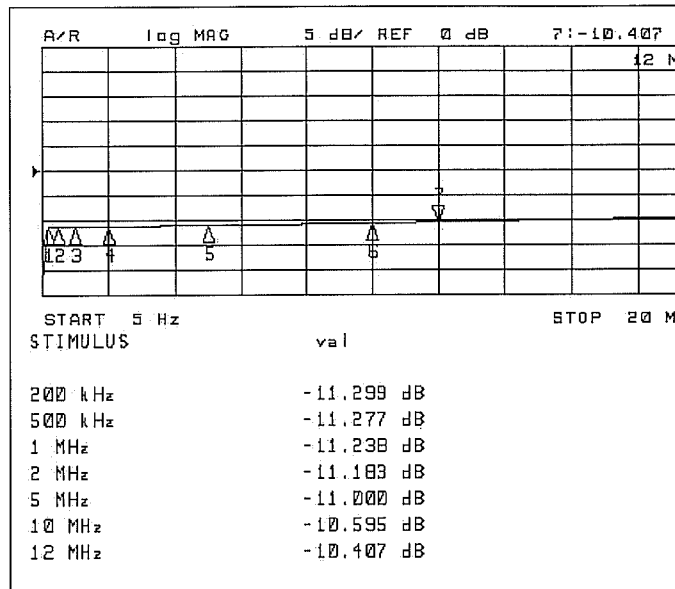


**REF/FWD MEASURING SHORT CIRCUIT**

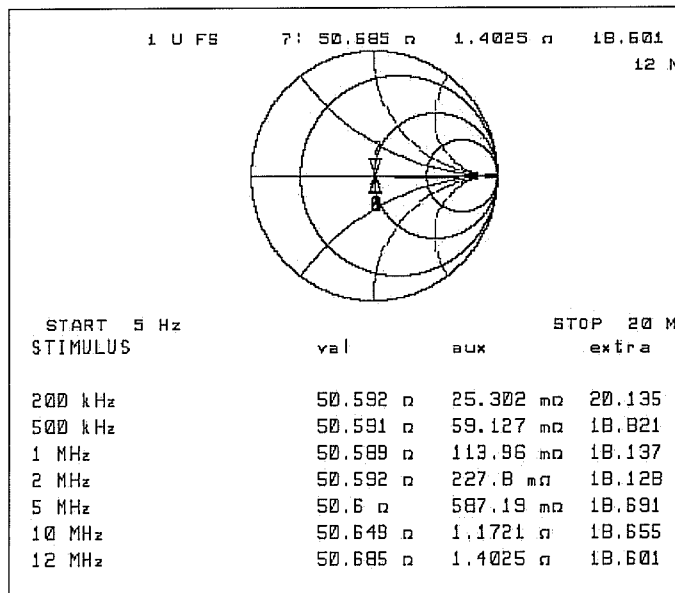


**REF - FWD PHASE MEASURING SHORT CIRCUIT**

**TUNWALL RADIO 0.2 – 12 MHZ DUAL DIRECTIONAL COUPLER  
MEASURED WITH H-P 8751A NETWORK ANALYZER**



**ATTENUATION WITH 50 OHM LOAD**



**INPUT IMPEDANCE WITH 50 OHM LOAD**

**TUNWALL RADIO 12 DB RF ATTENUATOR  
MEASURED WITH H-P 8751A NETWORK ANALYZER**