



# ROTARY ATTENUATOR

## MVE2R77-50

**DC to 12.4GHz**  
**Rotary, 0-99dB**  
**1dB&10dB/Step**

### Features

- ✓ Excellent Accuracy Value
- ✓ Full Attenuation Range: 99dB
- ✓ Low VSWR, unconditional stable
- ✓ SMA female connector I/O ( option: N )



### Specifications

PART NUMBER	IMPEDANCE	FREQUENCY	ATTENUATION STEP	INSERTION LOSS(MAX.)	VSWR (MAX.)	CONNECTOR
MVE2R77-50	50 OHM	DC – 12.4GHz	0-99 dB 1dB、10dB /step	1.6dB	1.60:1	SMA * FEMALE

\*Option Connector: N Female

#### ATTENUATION ACCURACY

- ±0.8 dB @1-9 dB
- ±1.0 dB @ 10-19dB
- ±1.5 dB @ 20-49dB
- ±2.0 dB @ 50-69dB
- MAX. OF ±2.5 dB OR 3.5%@ 70-99dB

#### MATERIALS

- CONNECTOR: BRASS, NICKEL PLATED
- CENTOR CONDUCTOR: BERYLLIUM COPPER, GOLD PLATED
- BODY: ALUMINUM, BLUE PAINT

#### POWER HANDLING

- AVG. POWER: 2Watt @25°C
- PEAK POWER: 200Watts
- (5μs pulse width with 2% duty cycle)

#### ENVIRONMENTAL

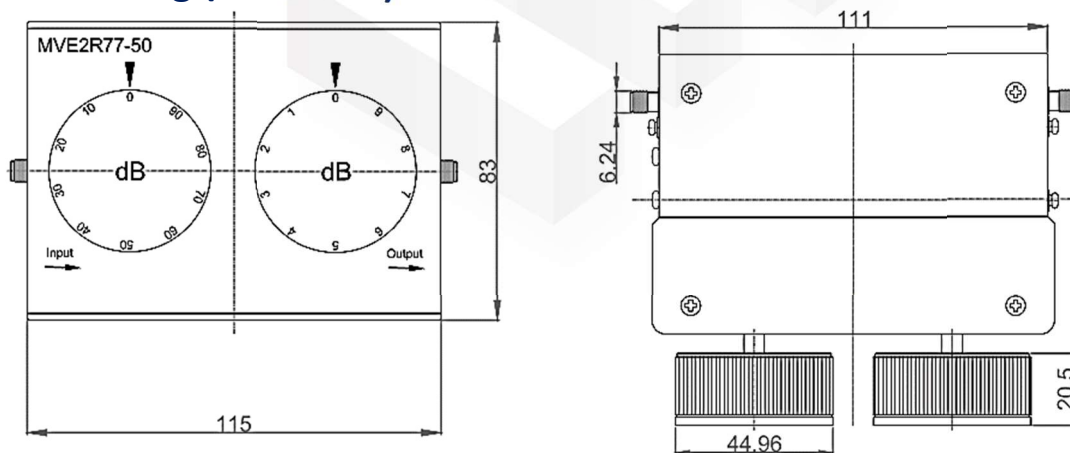
- TEMPERATURE RANGE: 0°C TO +54°C

#### SWITCHING CYCLE

- 100,000 Times

Tolerance: X= ±5%

### Outline Drawing (Unit: mm)



NOTES:

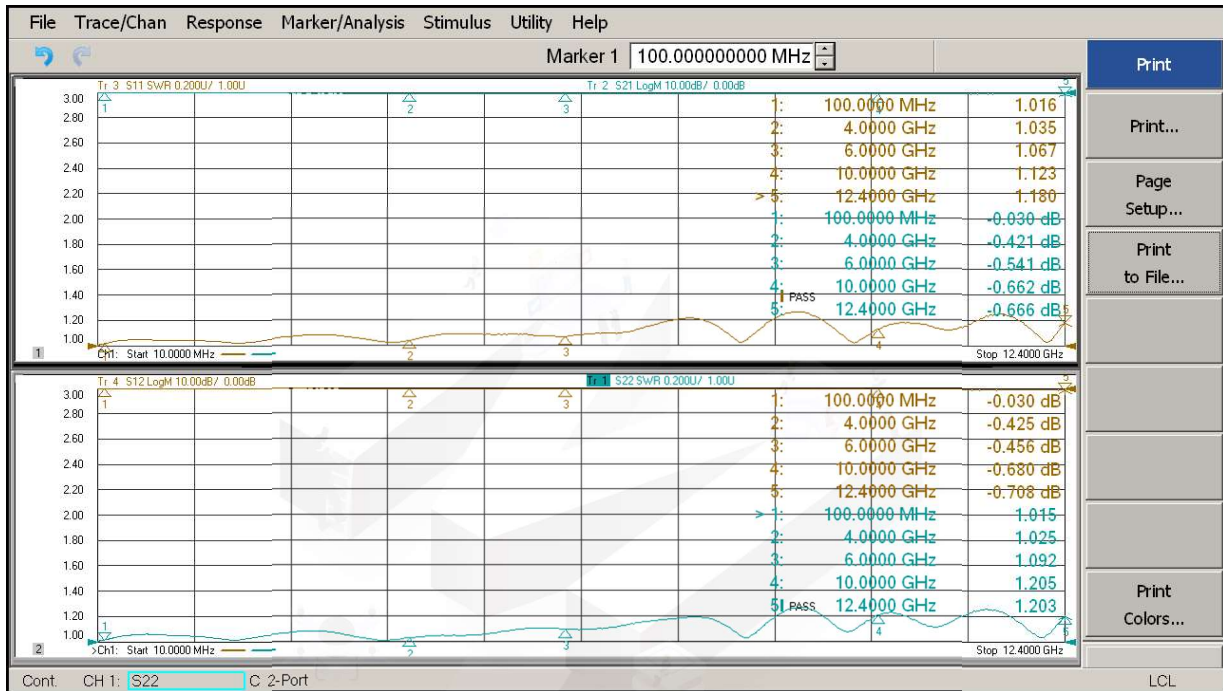
1. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY



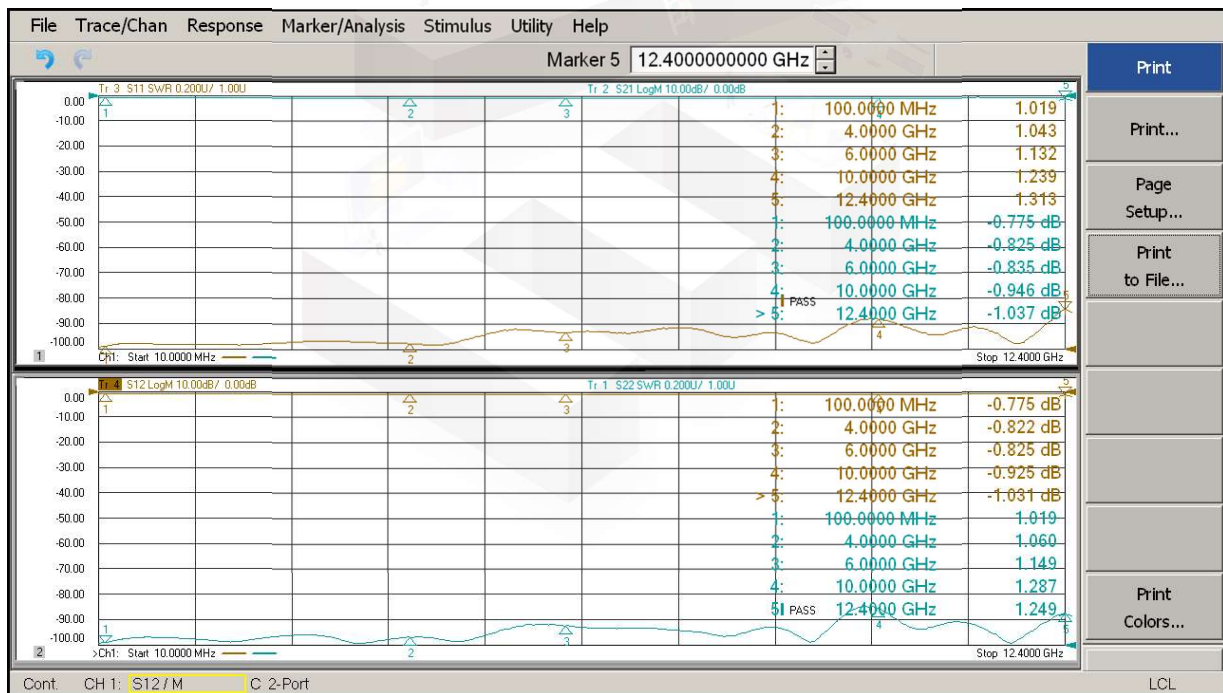


## Typical Test Report

### Insertion Loss



### 1dB

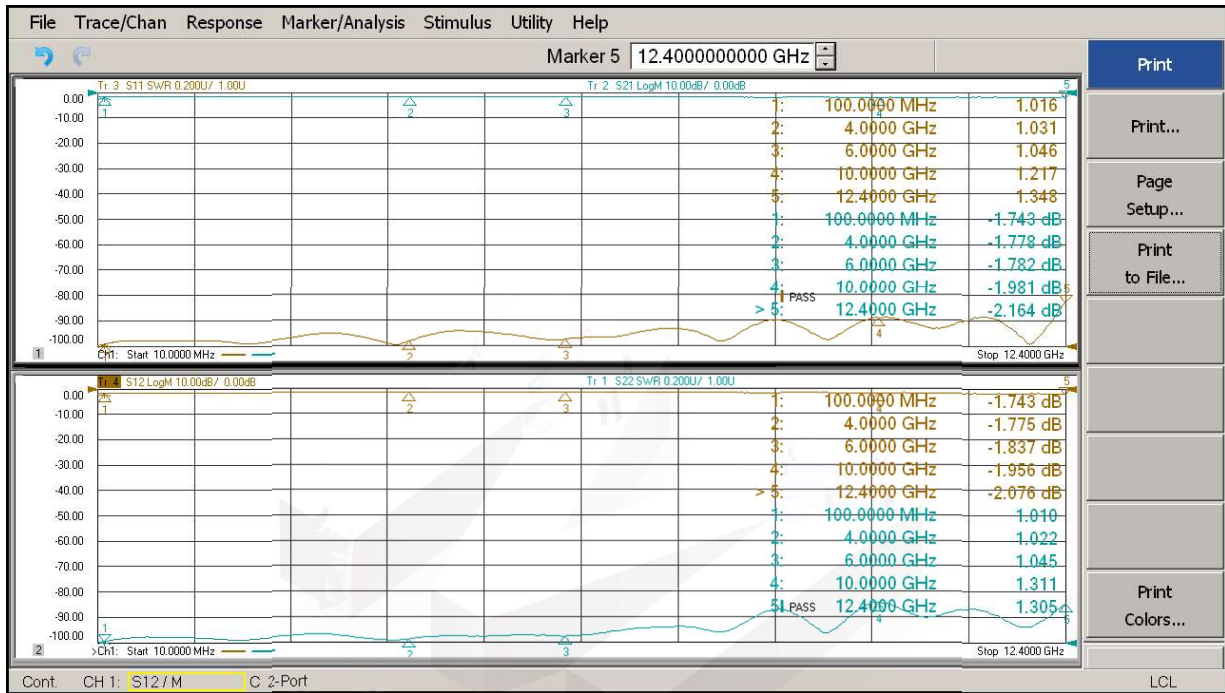


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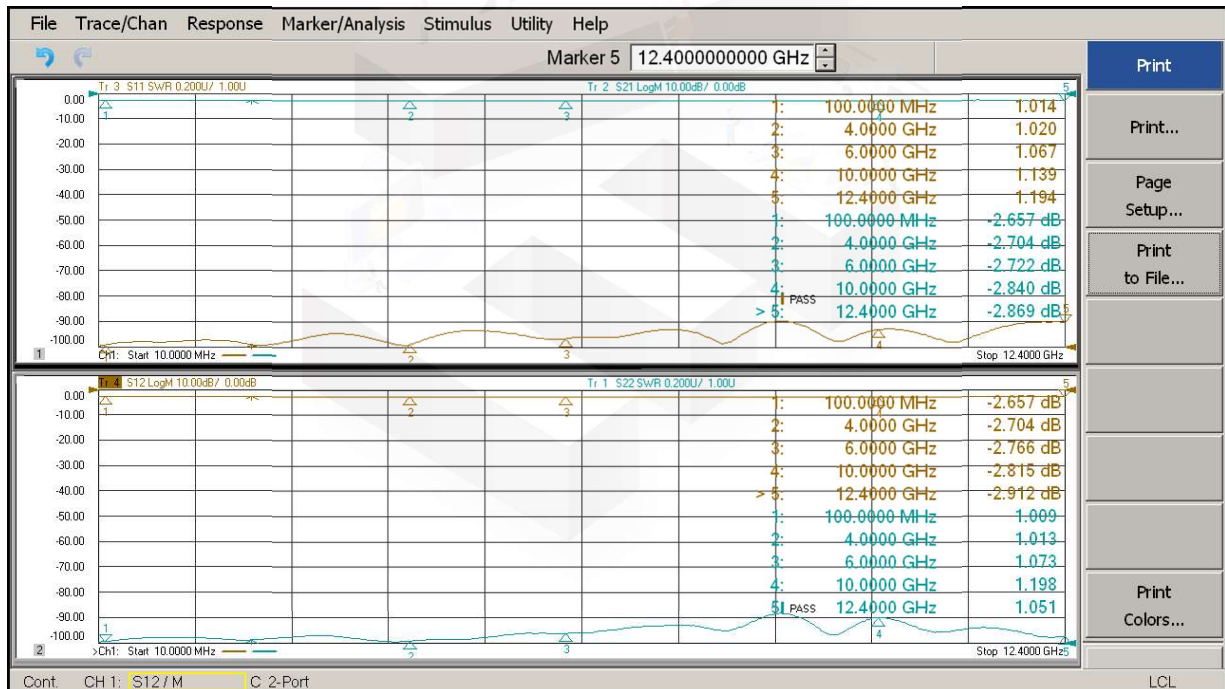




**2dB**



**3dB**

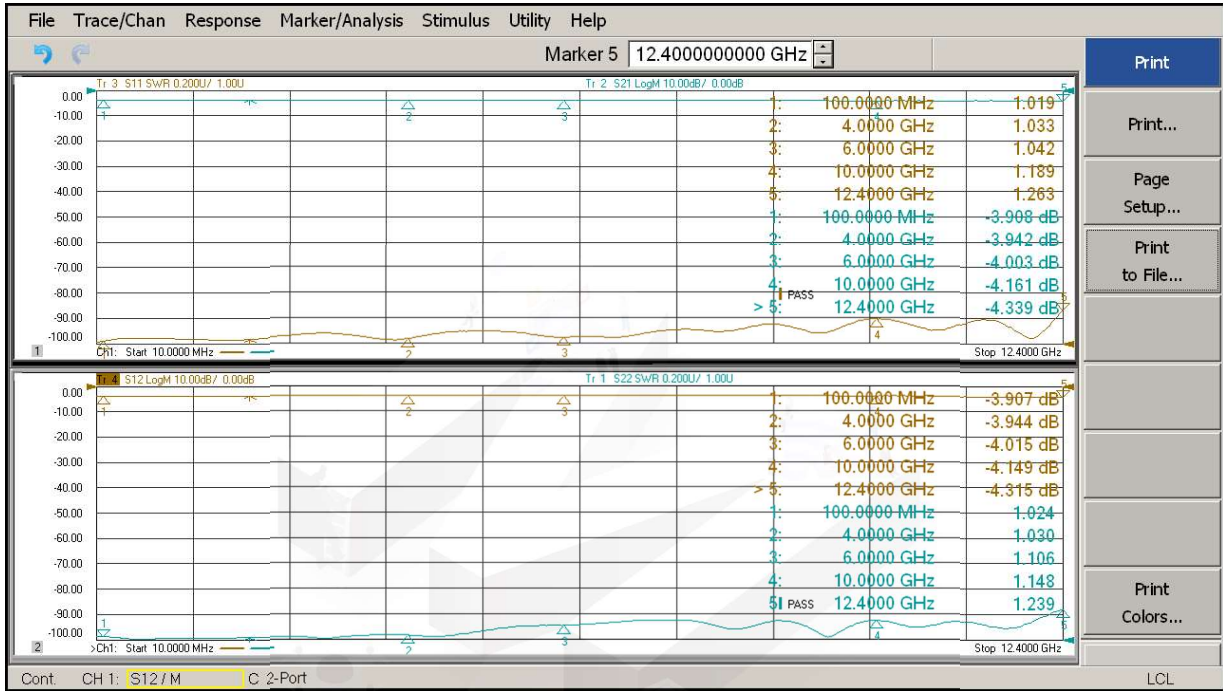


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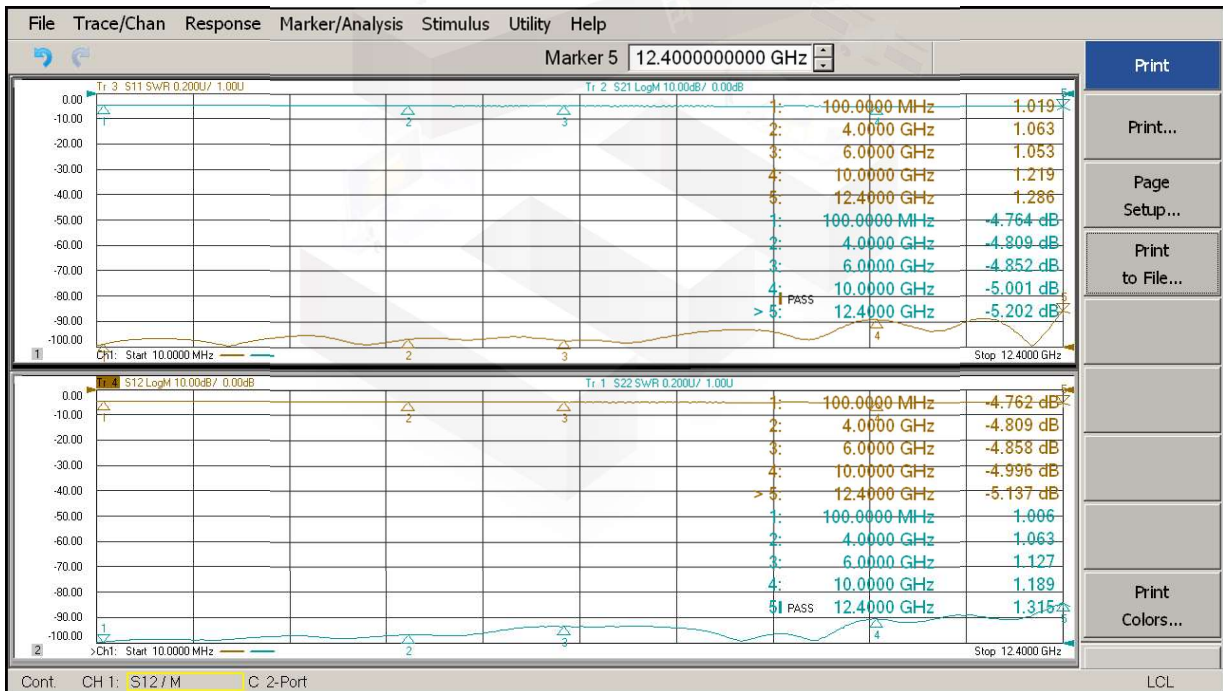




**4dB**



**5dB**

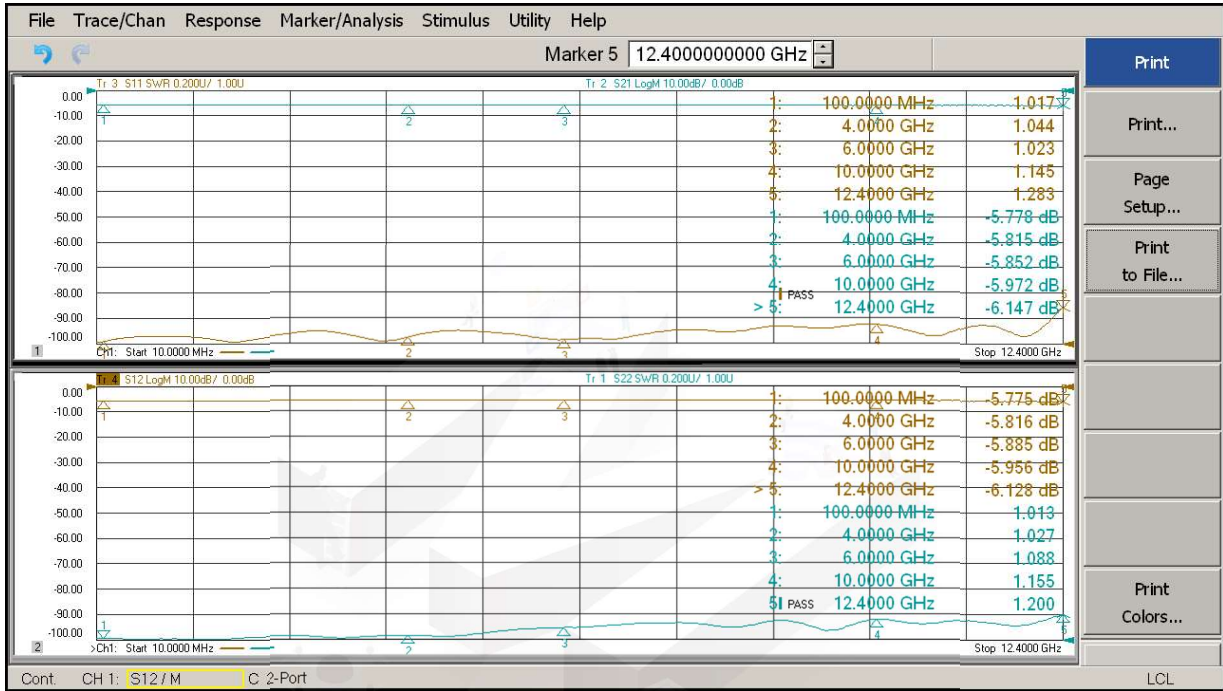


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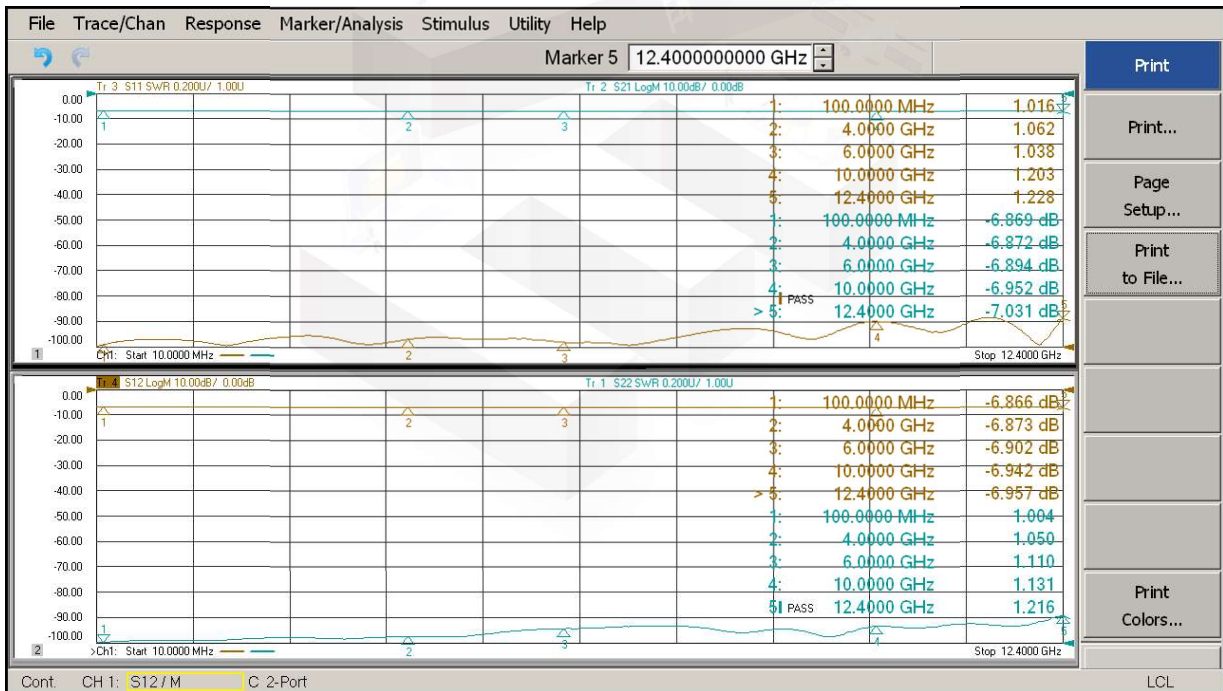




**6dB**



**7dB**

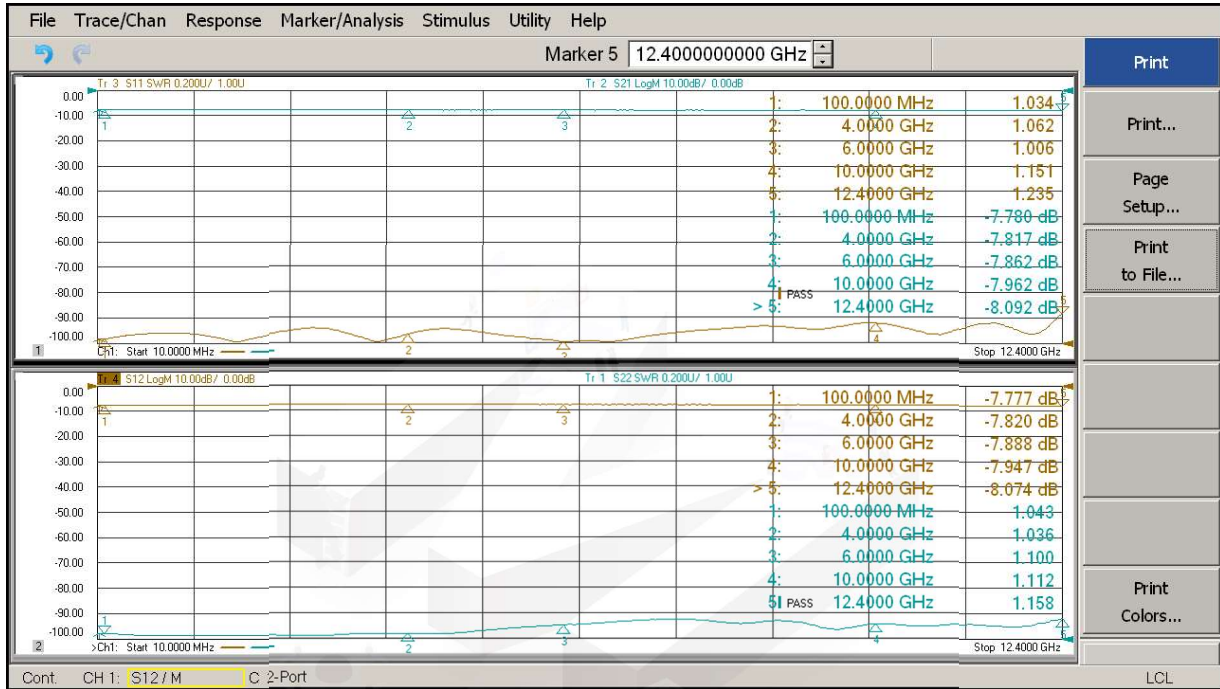


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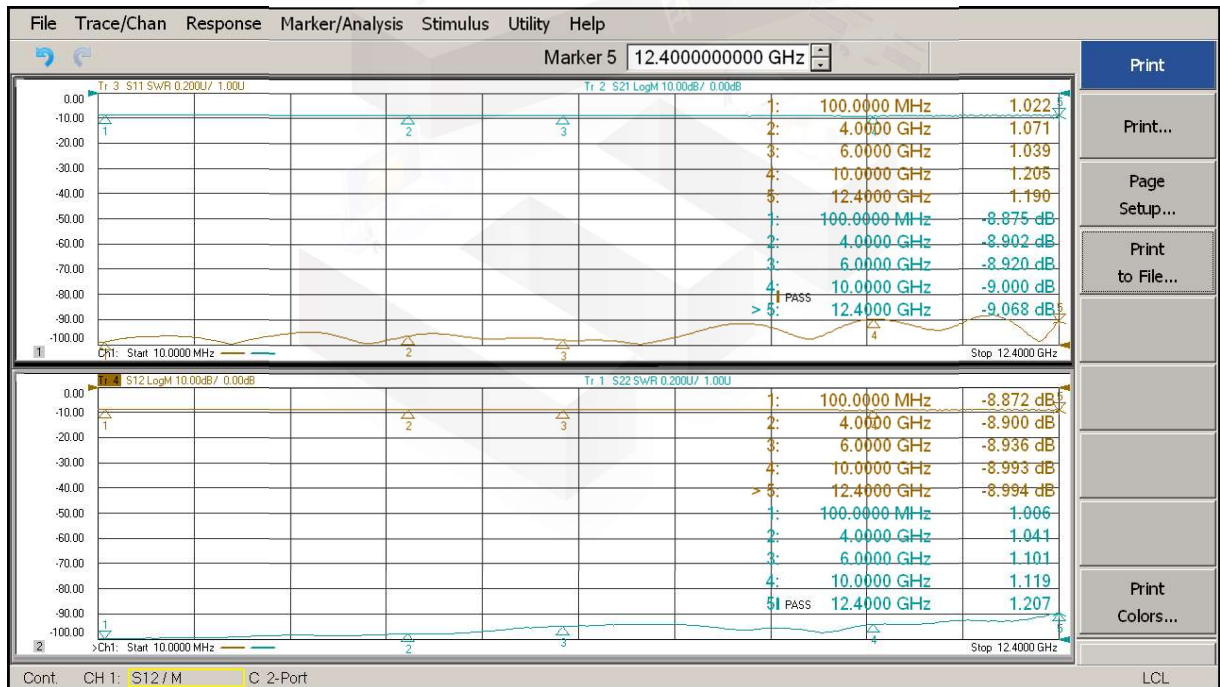




**8dB**



**9dB**

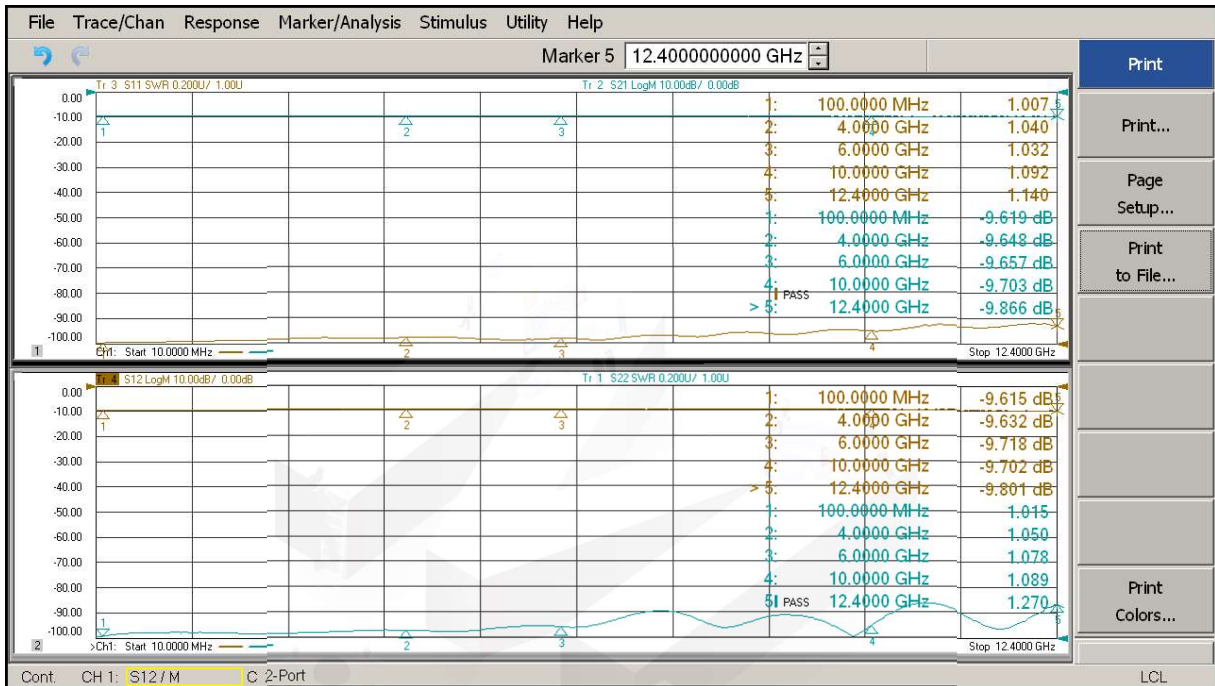


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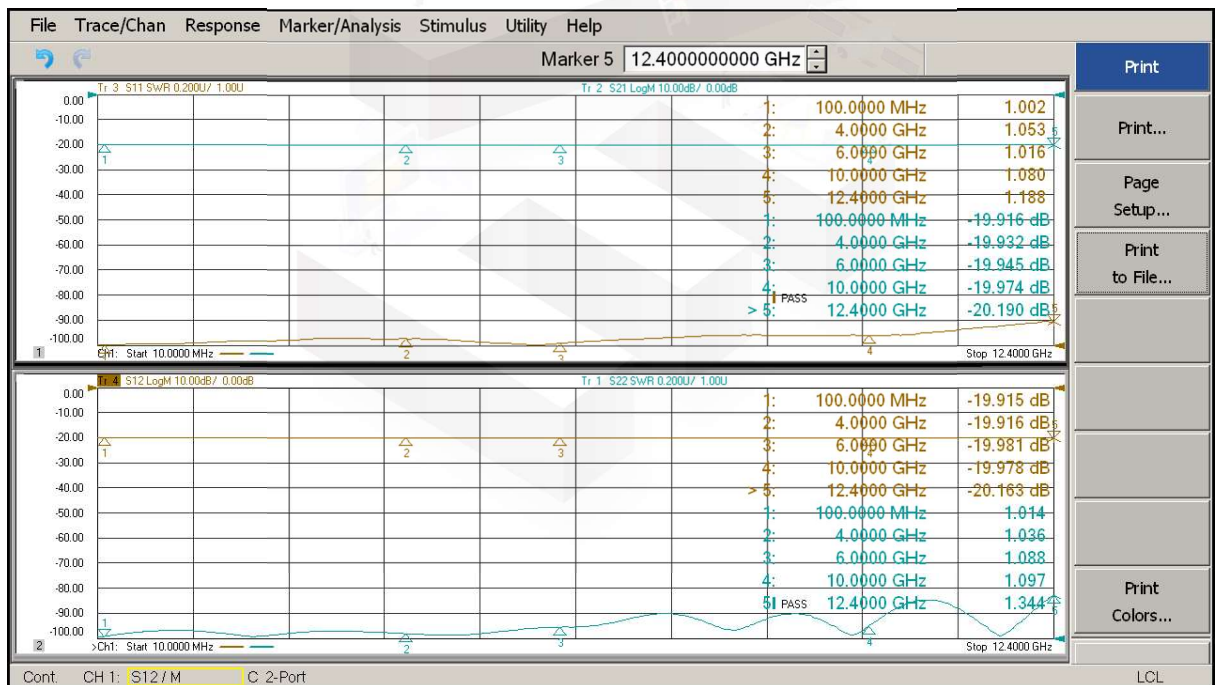




**10dB**



**20dB**

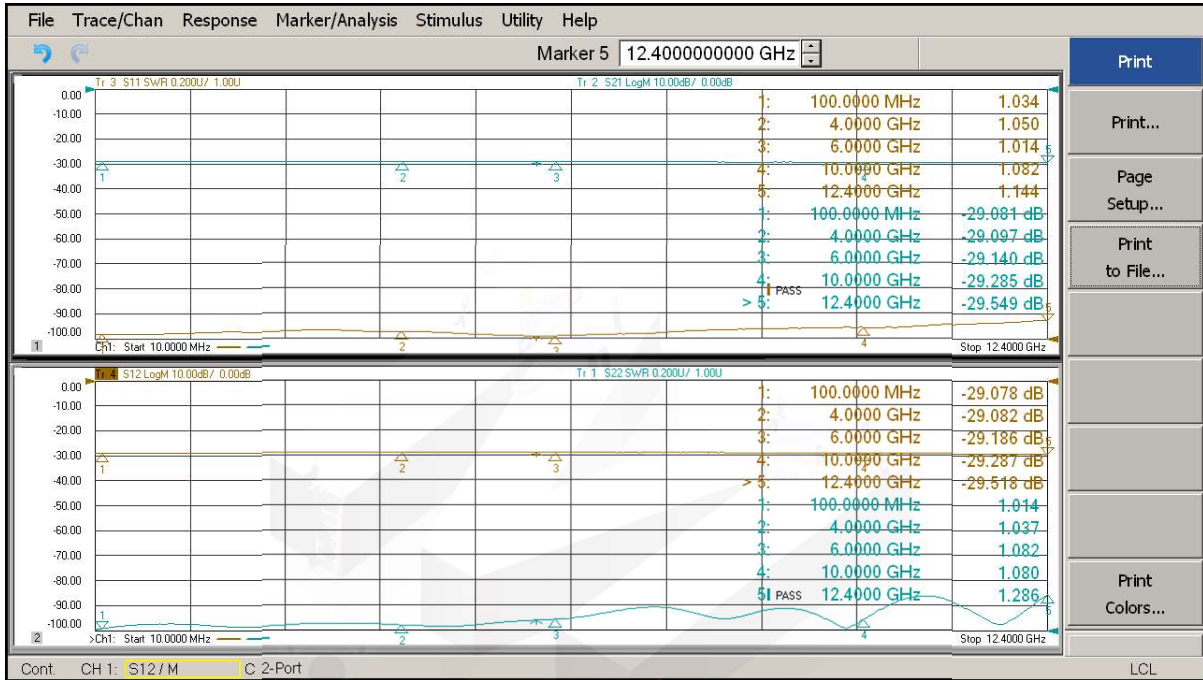


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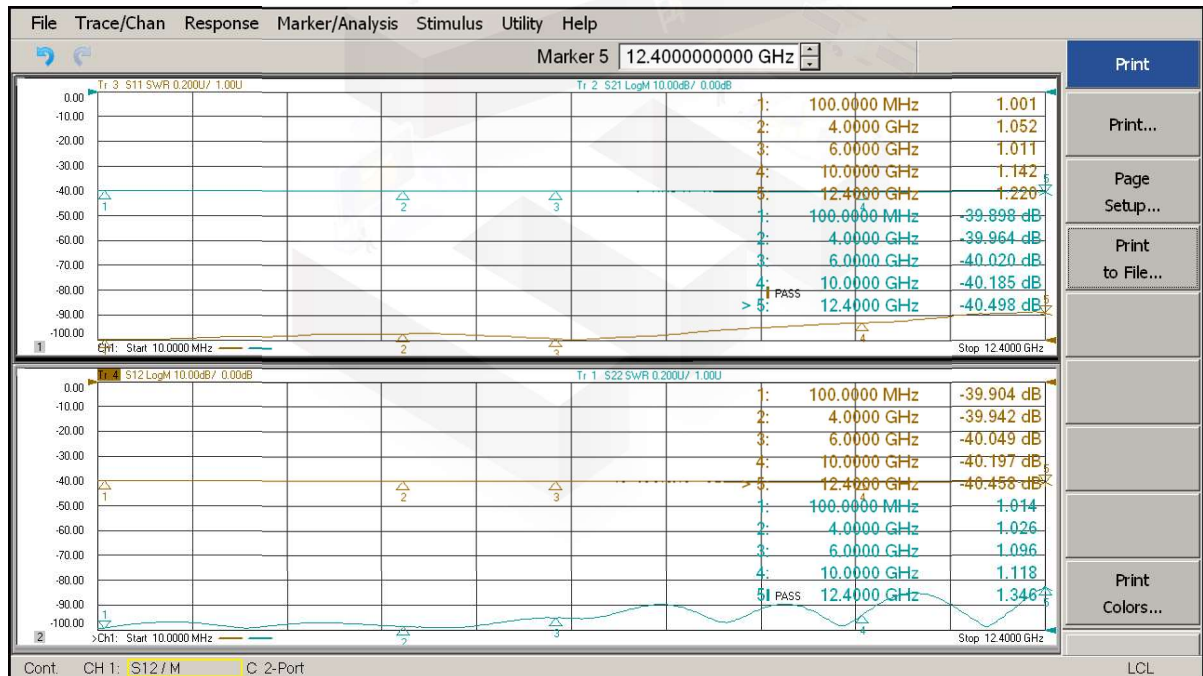




**30dB**



**40dB**

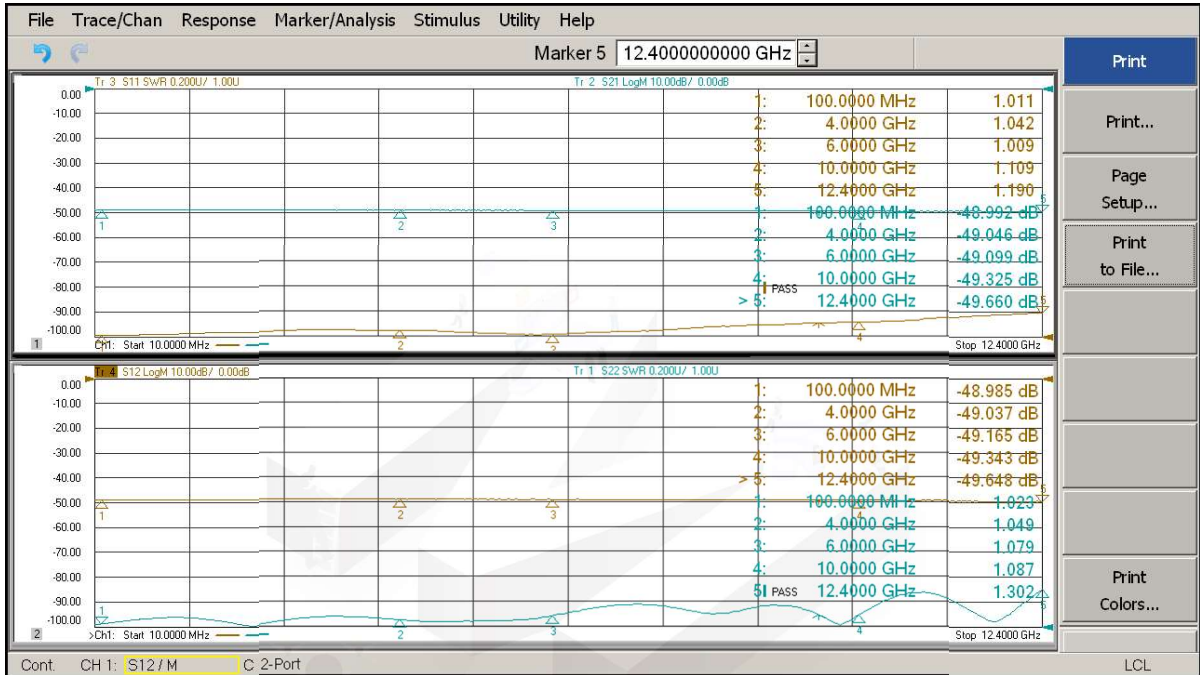


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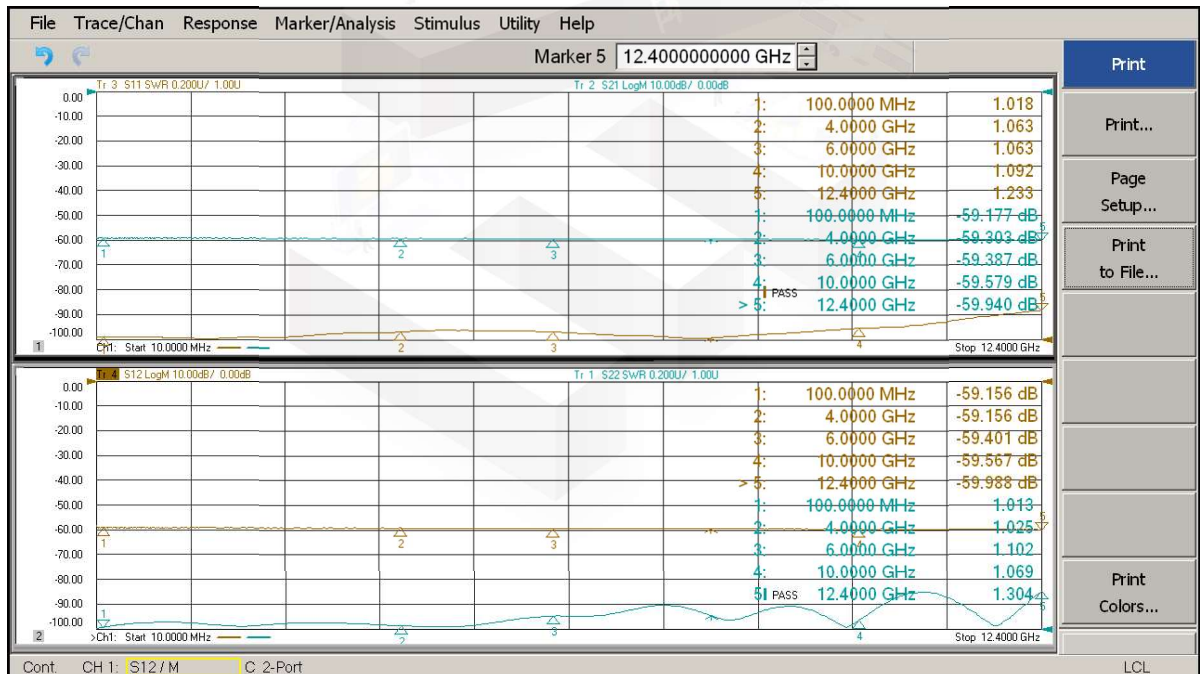




**50dB**



**60dB**

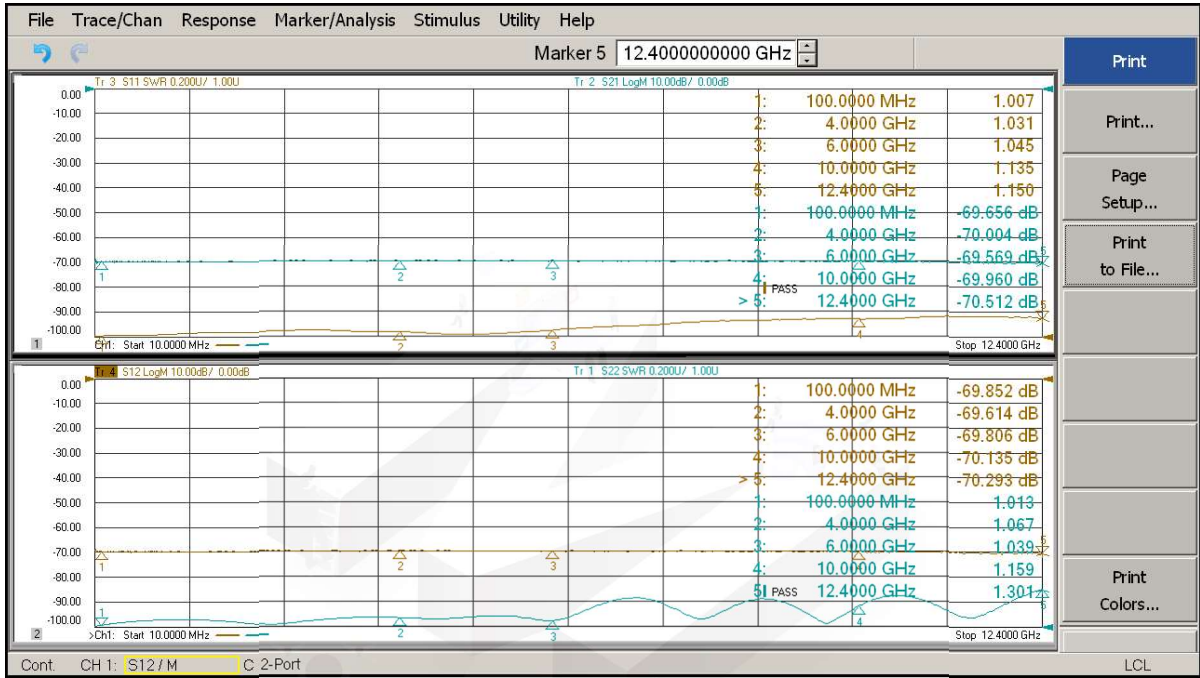


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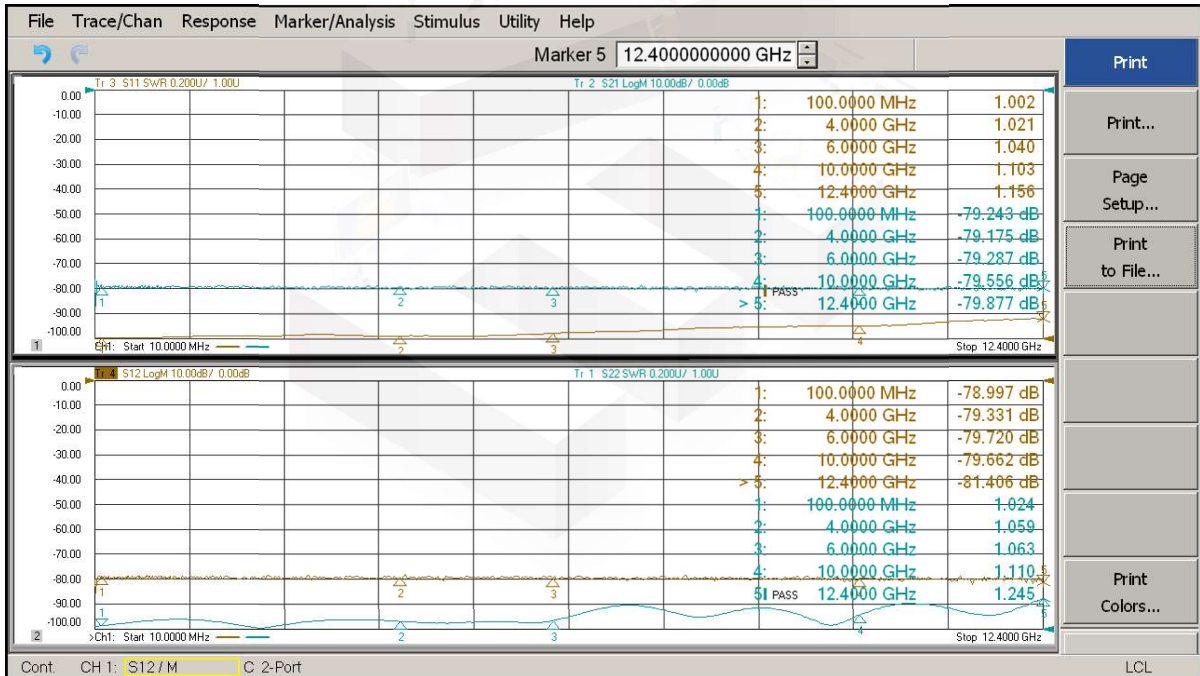




**70dB**



**80dB**

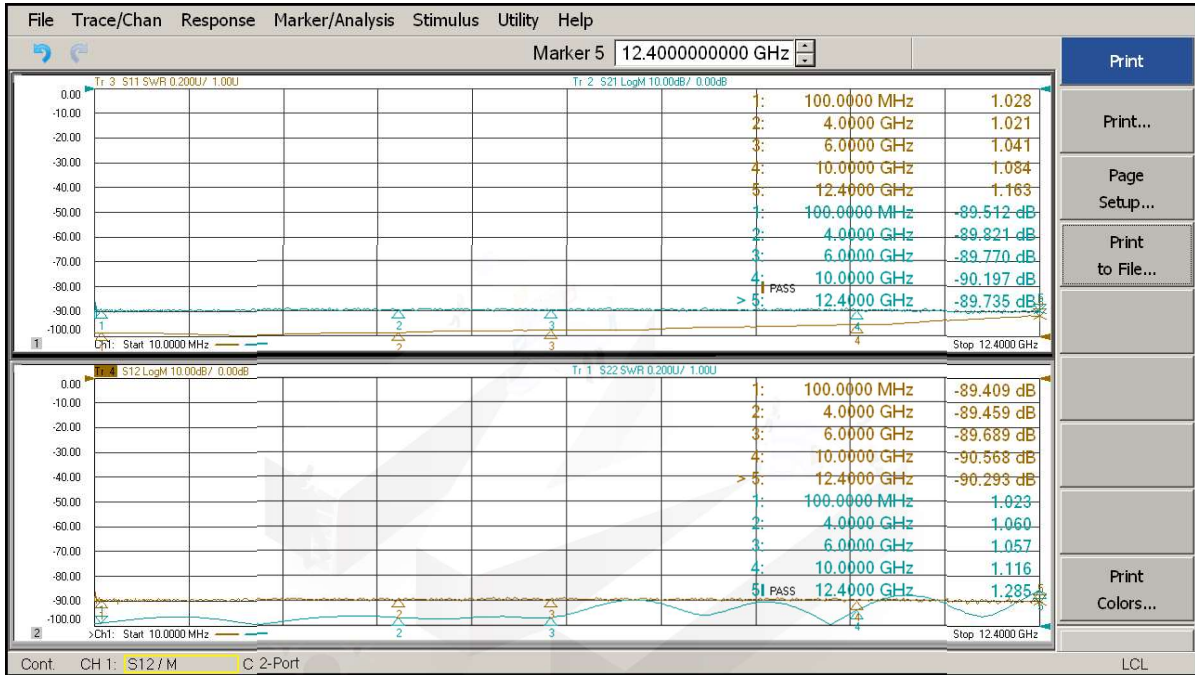


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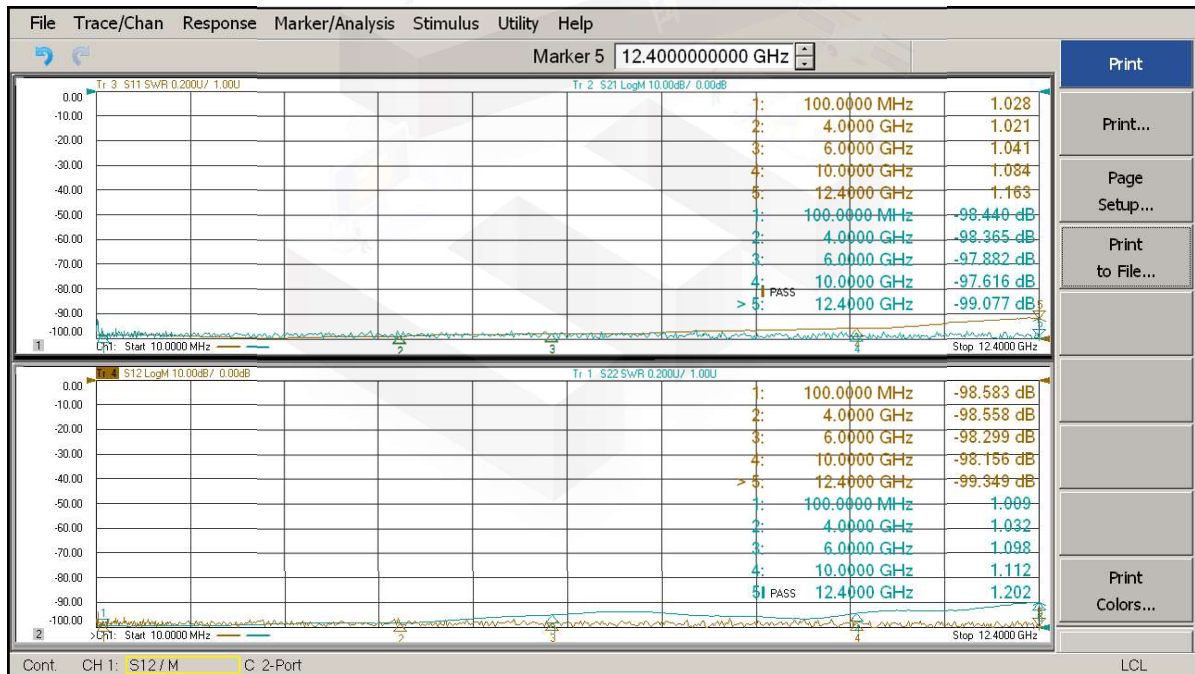




**90dB**



**99dB**



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