

**Model: TLDA-0.1G50G-62-6-USB**
**Digital Attenuator  
 0.1-50 GHz, 6-Bit, 1 dB LSB, 62 dB Range**
**Feature:**

- Ultra Wide Band: 0.1-50GHz
- 6-Bit, 1 dB LSB, 62 dB Range
- Low Insertion Loss
- High Attenuator Accuracy

**电气特性 Electrical:**

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	0.1-50			GHz
插损 Insertion Loss	10dB@0.1-20GHz 15dB@20-40GHz 20dB@40-50GHz			dB
衰减范围 Attenuation Range		62		dB
控制位数 Control Bit TTL		6		Bit
衰减步进 Attenuation Step		1		dB
切换速度 Switch Speed		3		ms
输入/输出驻波 Input/Output VSWR		2.2	2.5	:1
最大输入功率 Input Max Power			27	dBm
直流电压 DC Voltage			+5	V DC
直流电流 DC Supply Current			300(USB)供电	mA
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

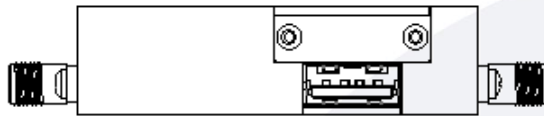
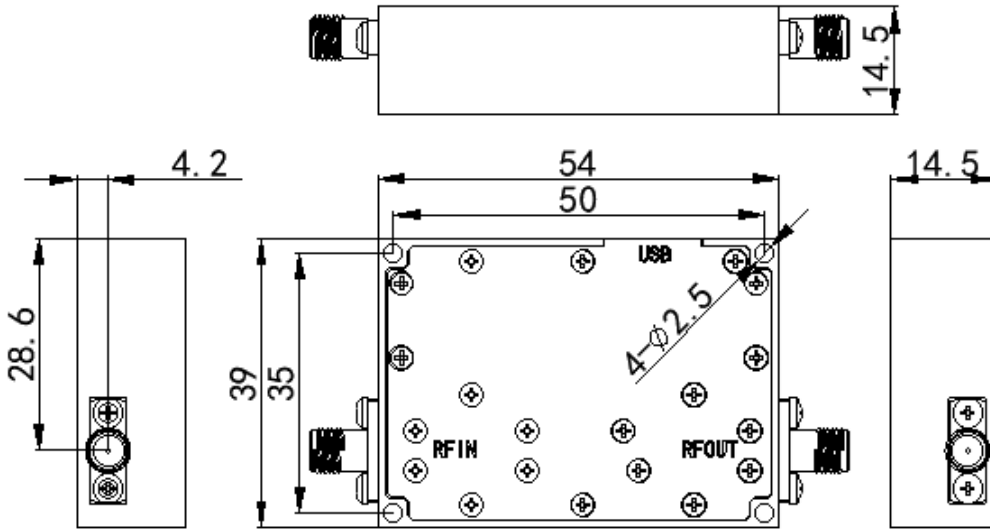
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.4mm Female	
控制连接器 Control Connector	USB 2.0 Type A	
尺寸 Size	/	mm
重量 Weight	TBD	g

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+5V
输入功率 RF Input Power	27 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸Outline Drawing:

Unit: mm(Inches)



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

上位机软件:



### 温度环境 Environmental Conditions:

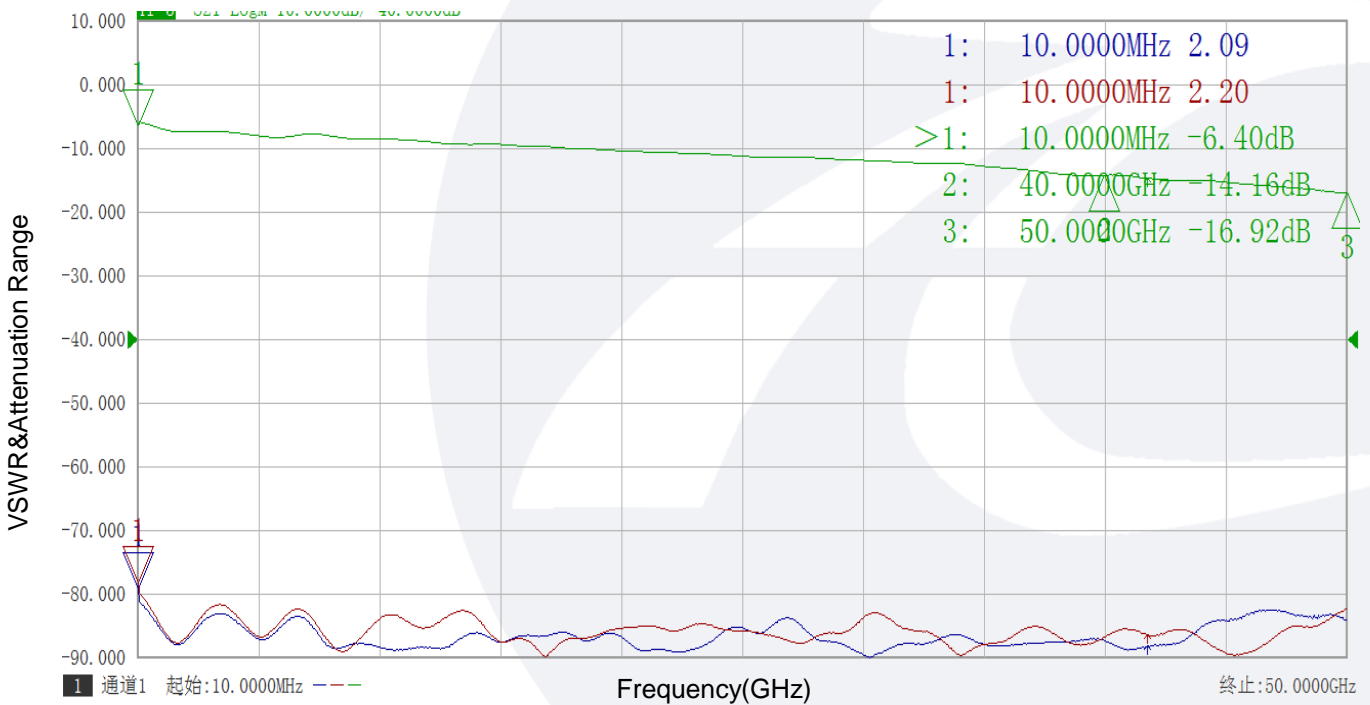
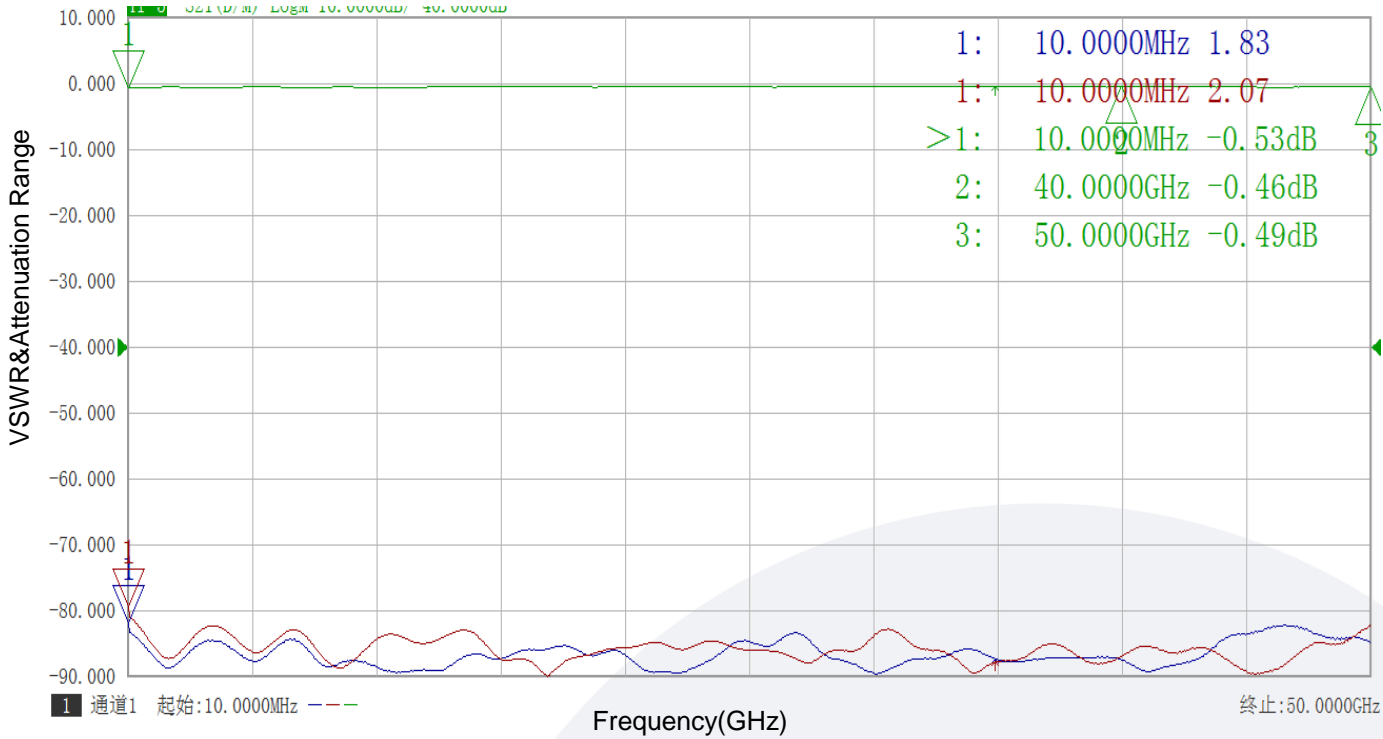
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

### 订货信息 Ordering Information:

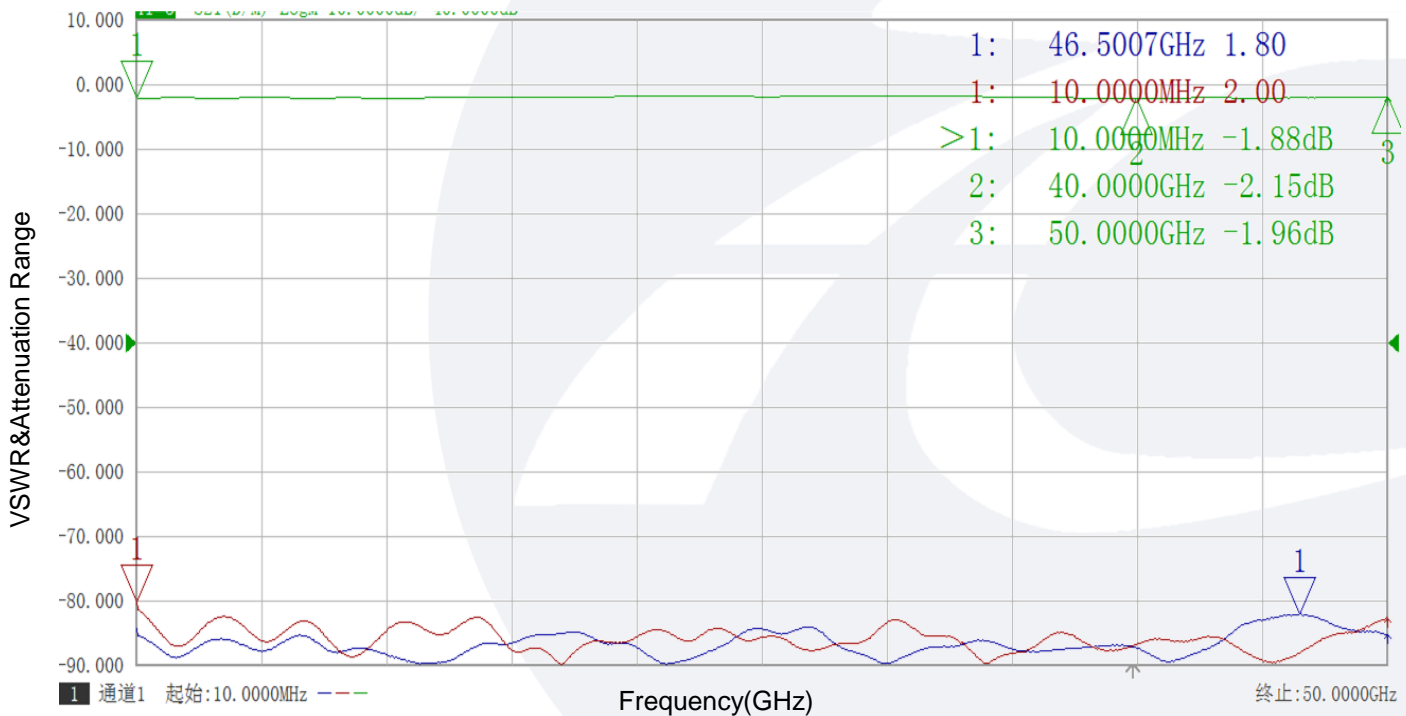
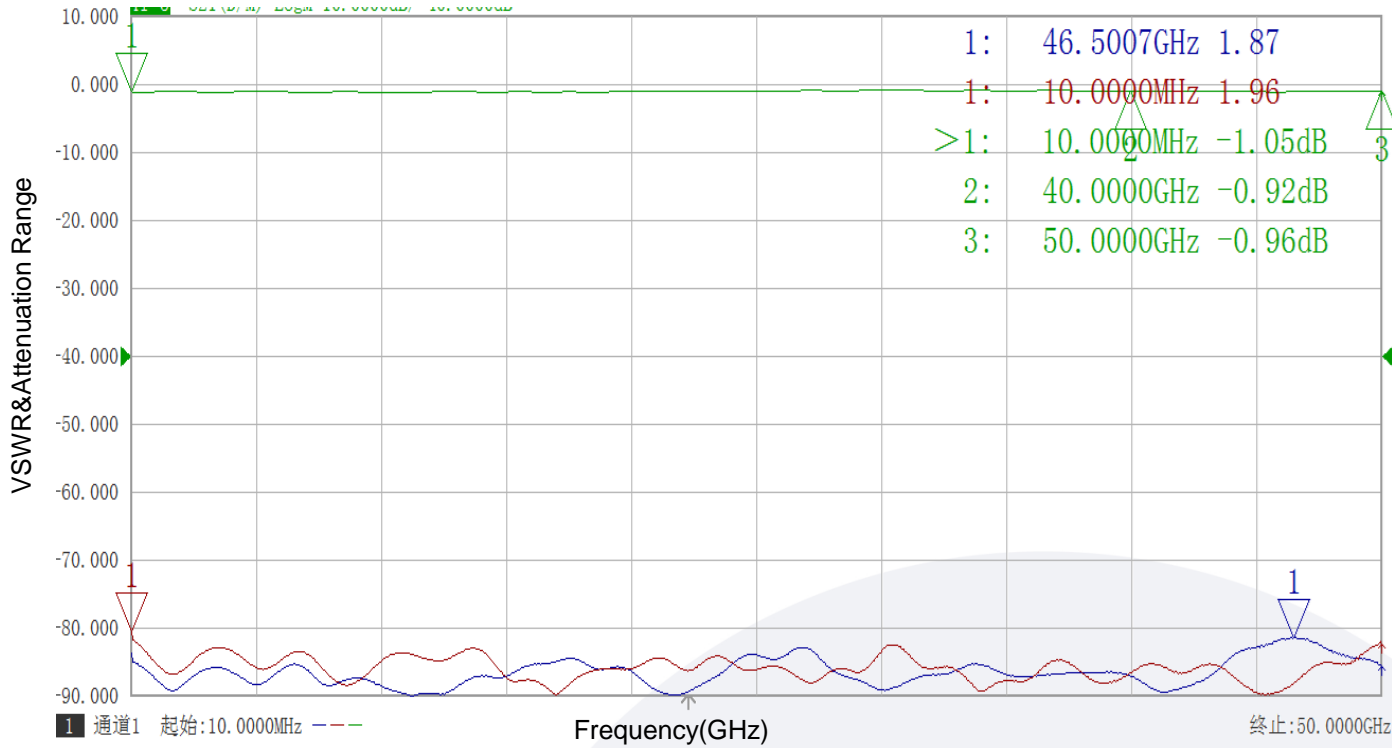
标准型号 Part Number	描述 Description	版本号Revision
TLDA0.1G50G-62-6-USB	Digital Attenuator 0.1-50 GHz, 6-Bit, 1 dB LSB, 62 dB Range	Rev.1.1

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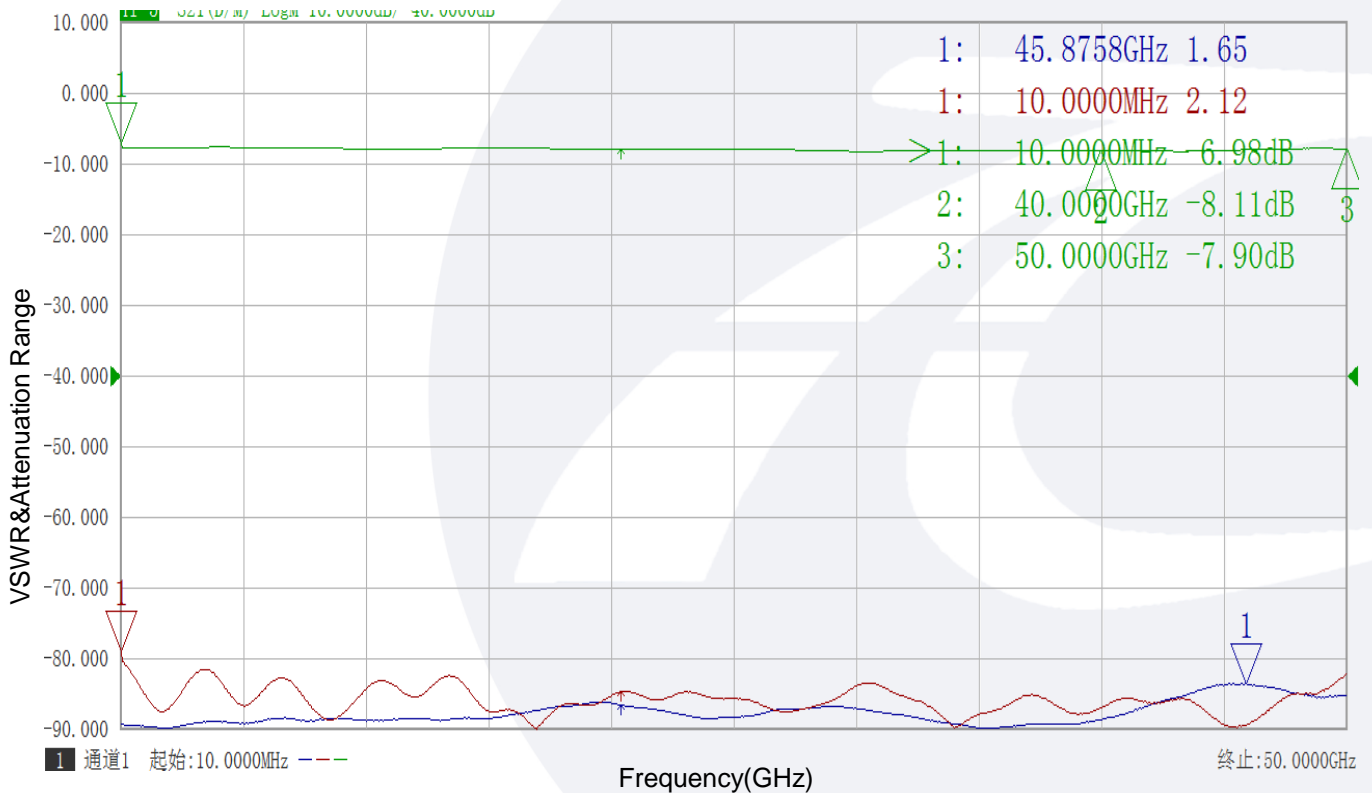
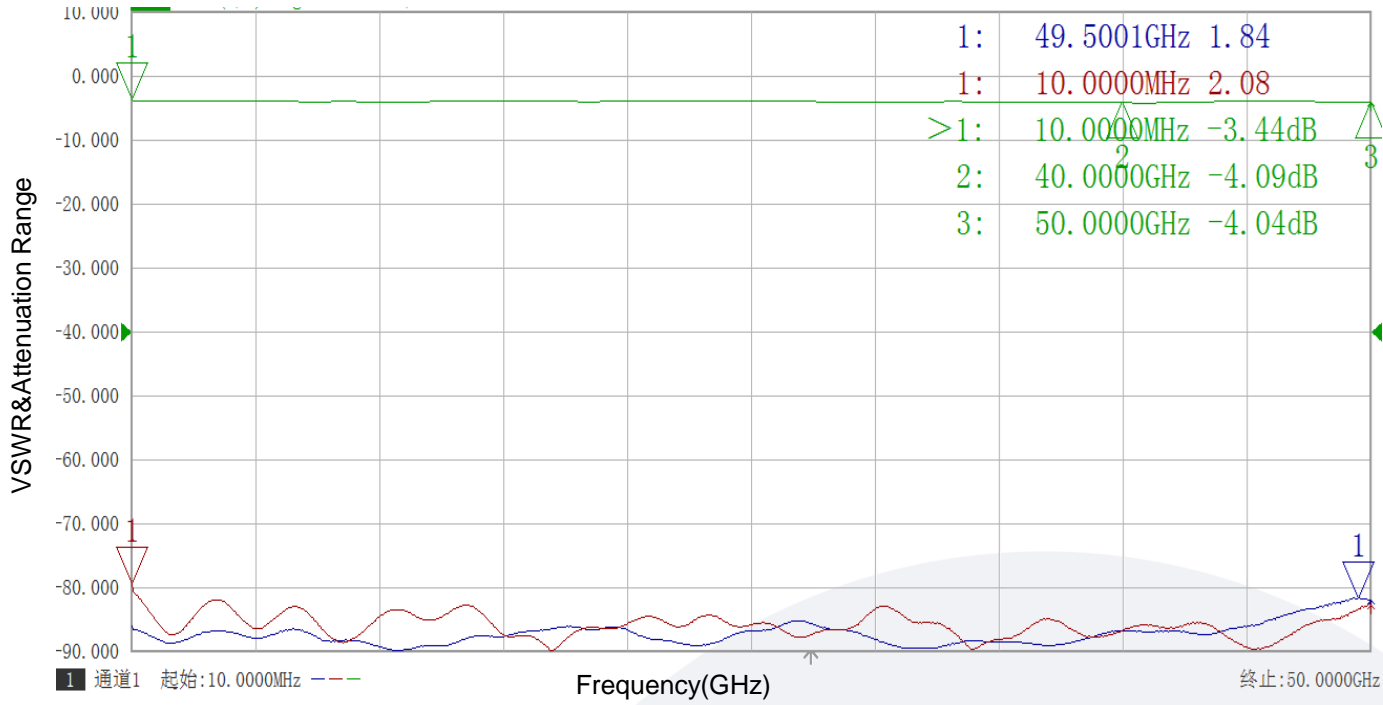
### VSWR&Attenuation Range VS Frequency



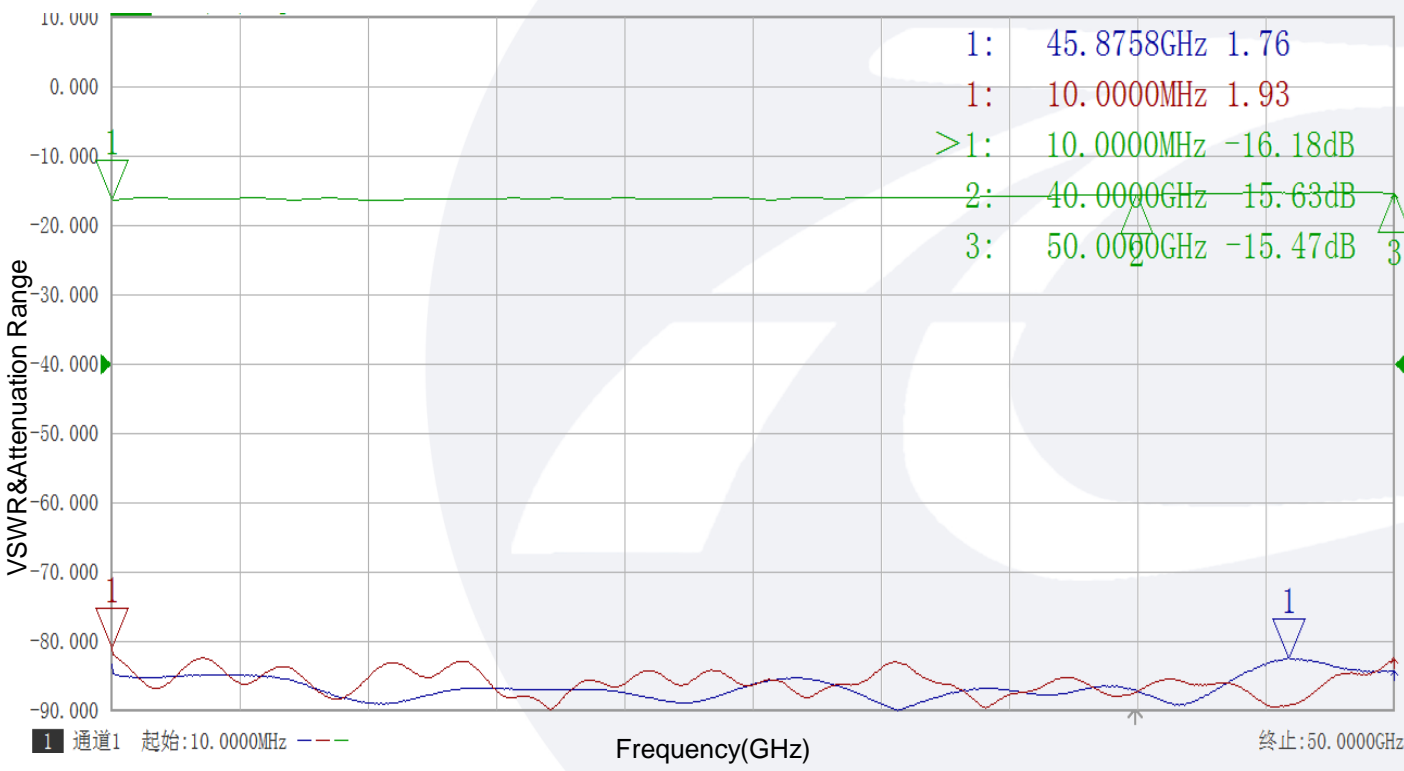
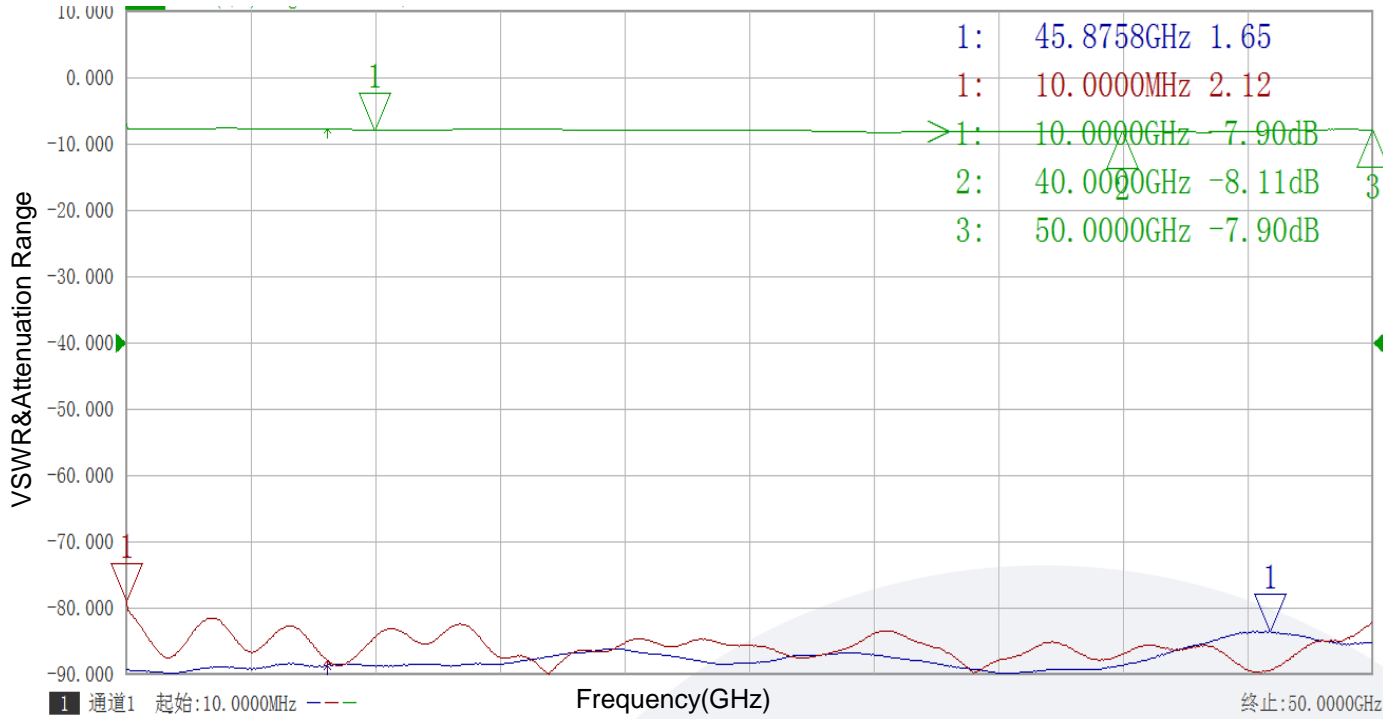
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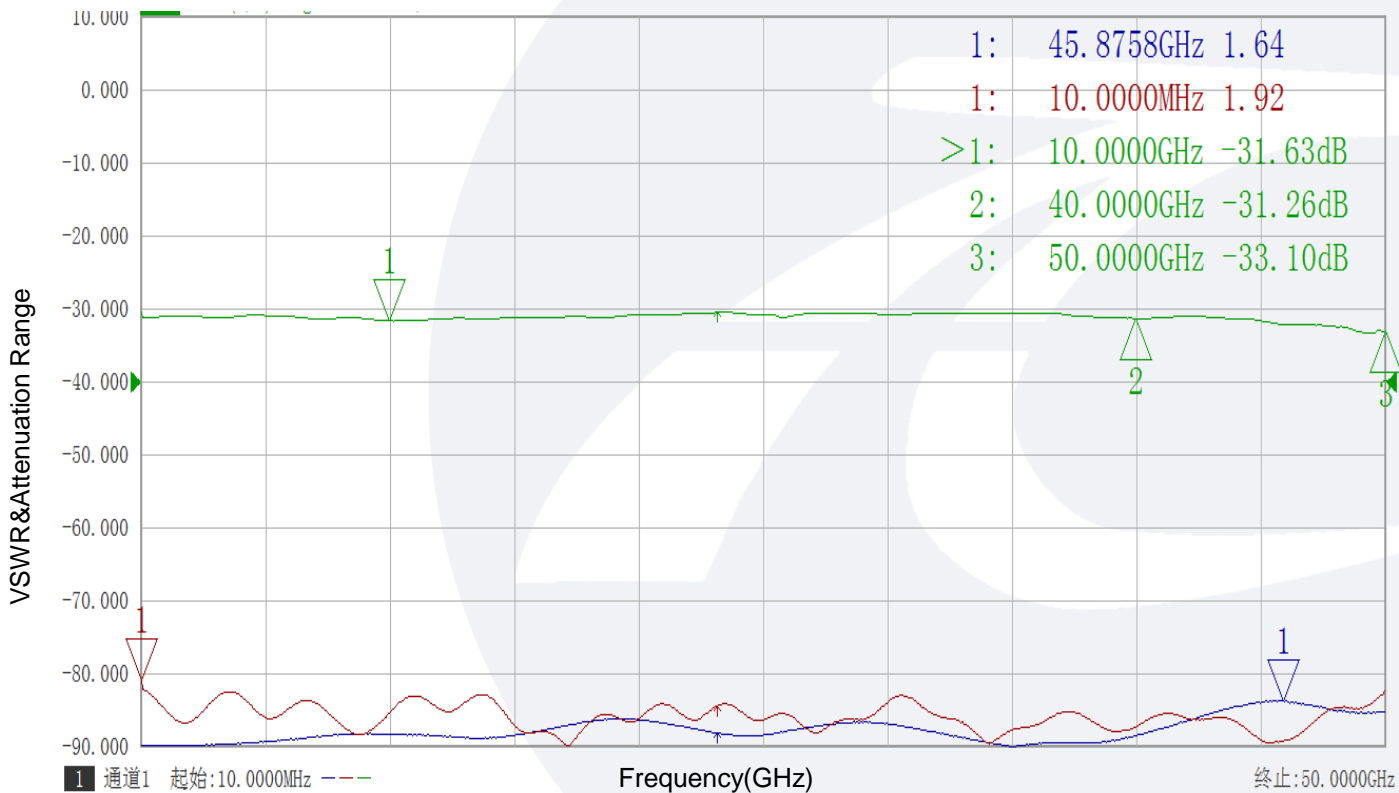
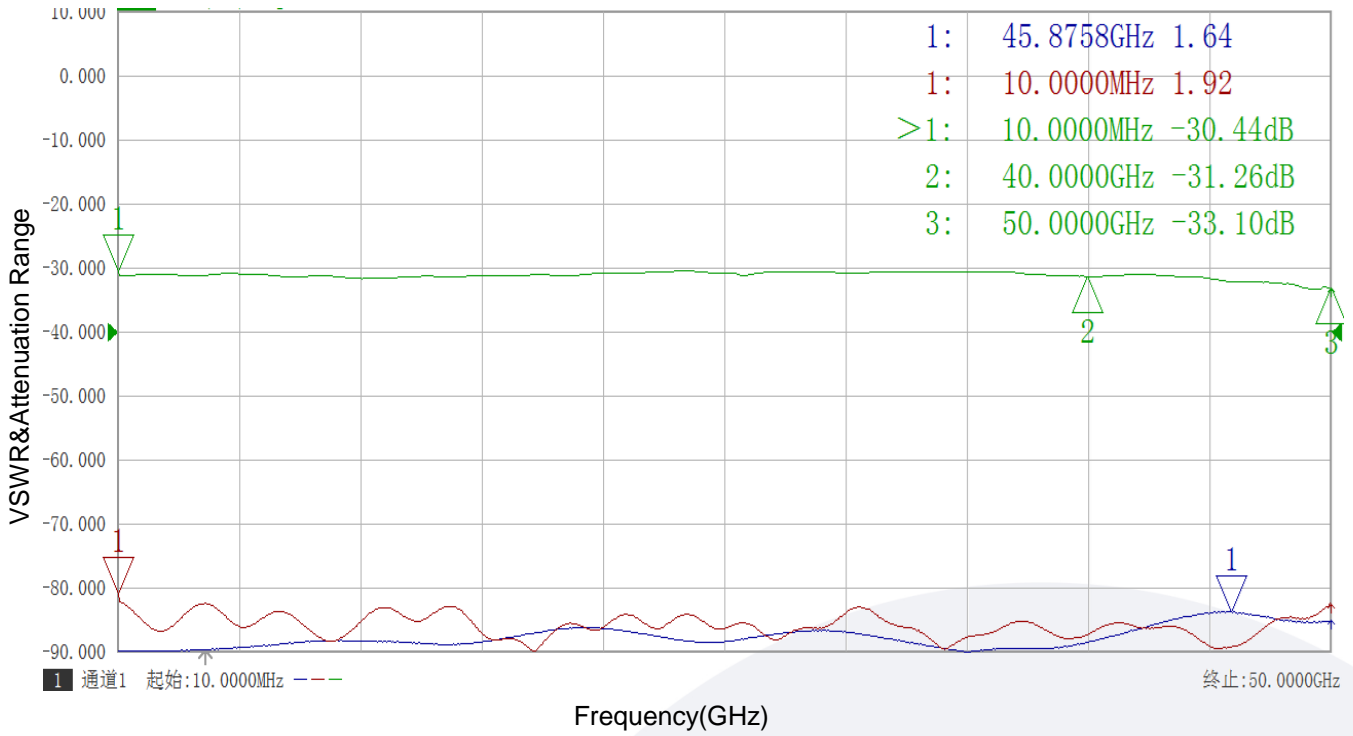
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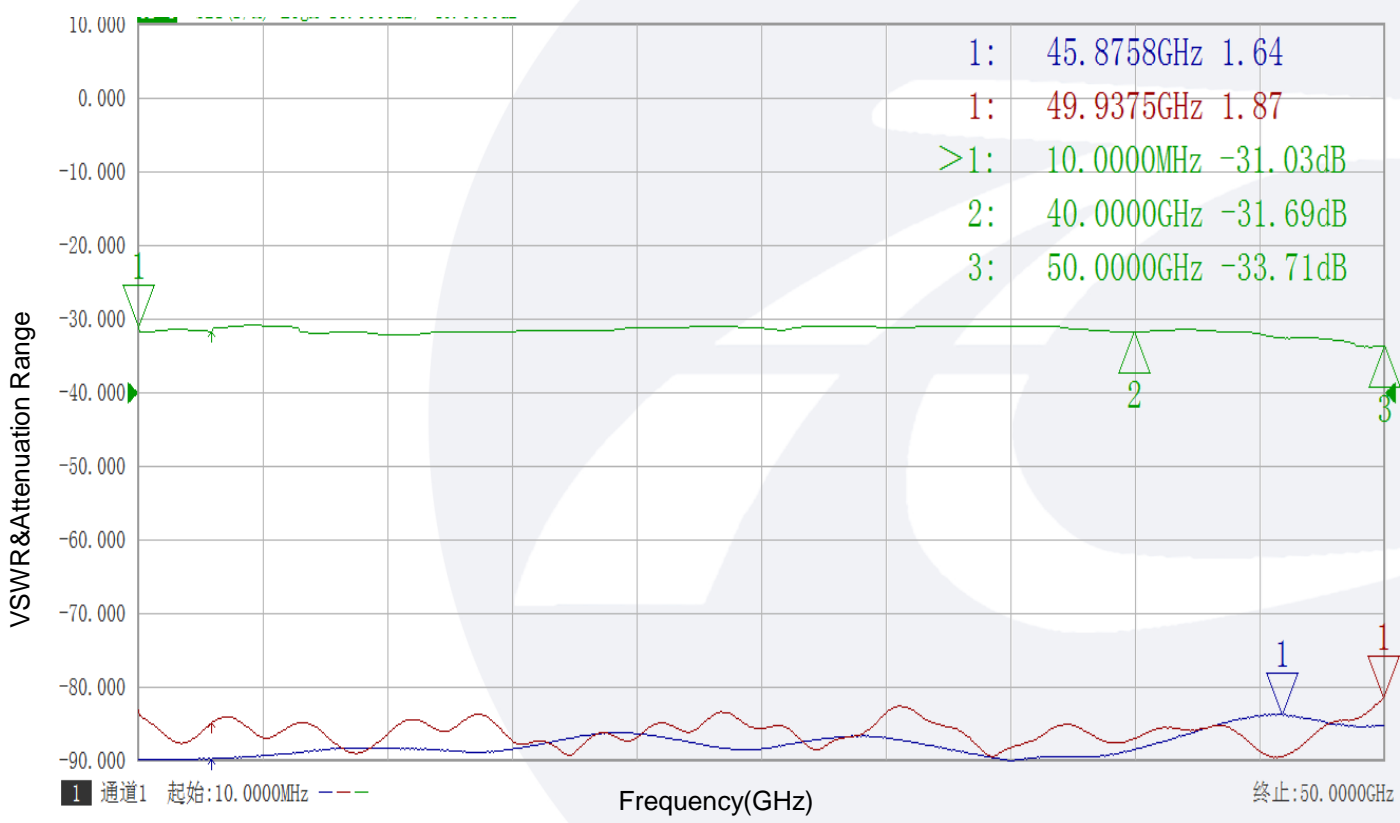
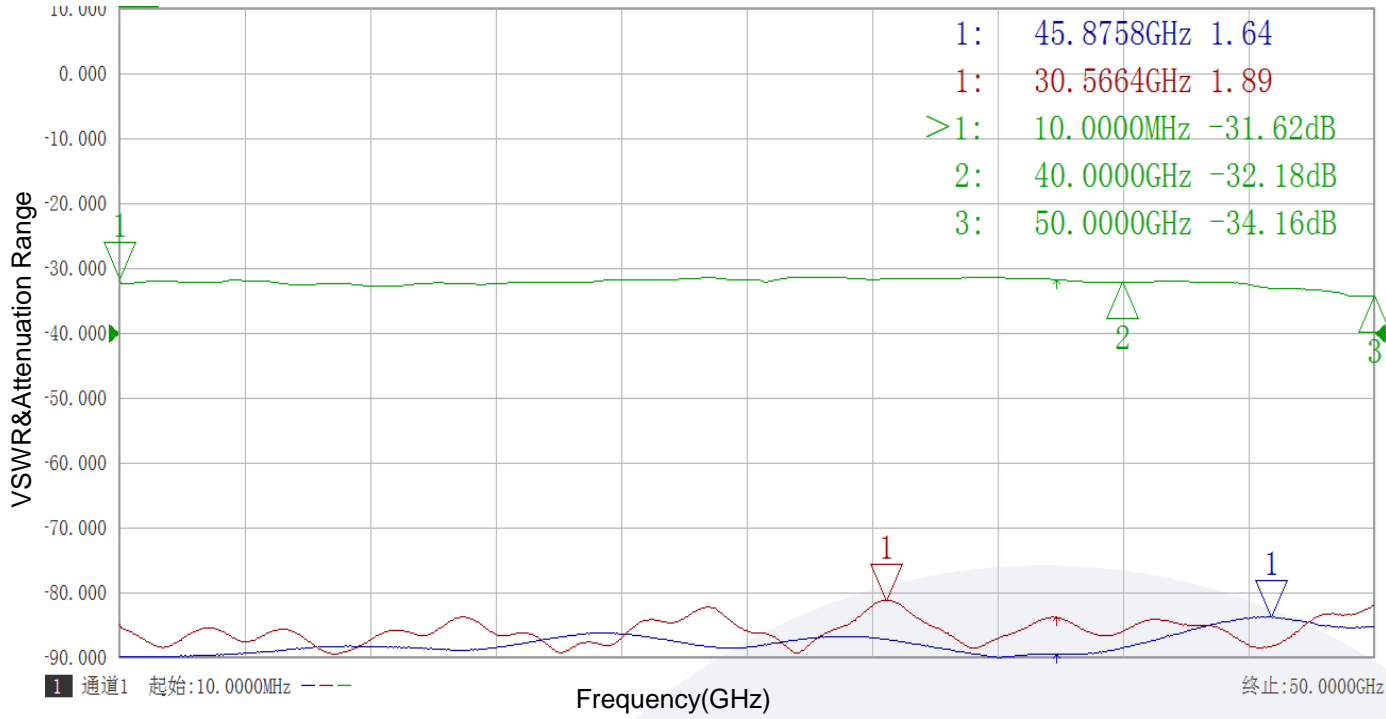


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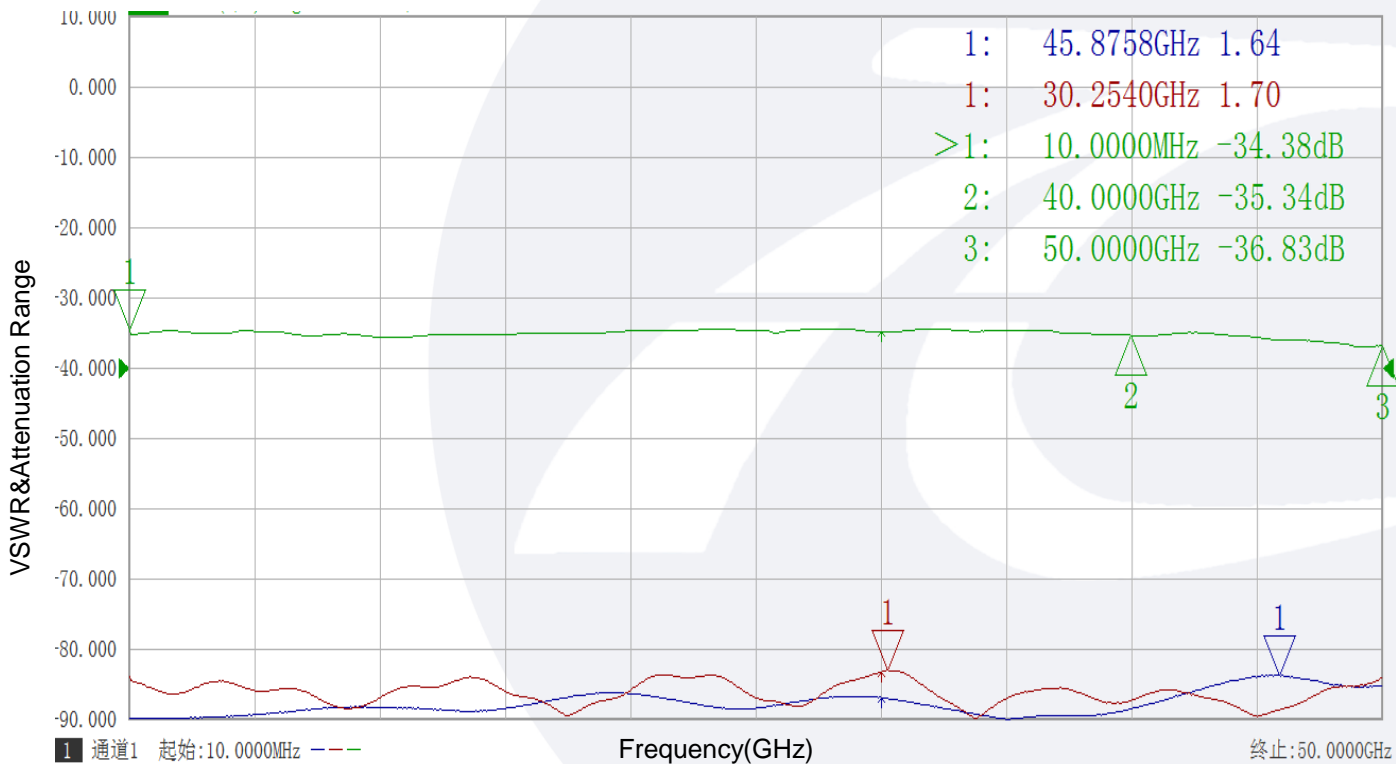
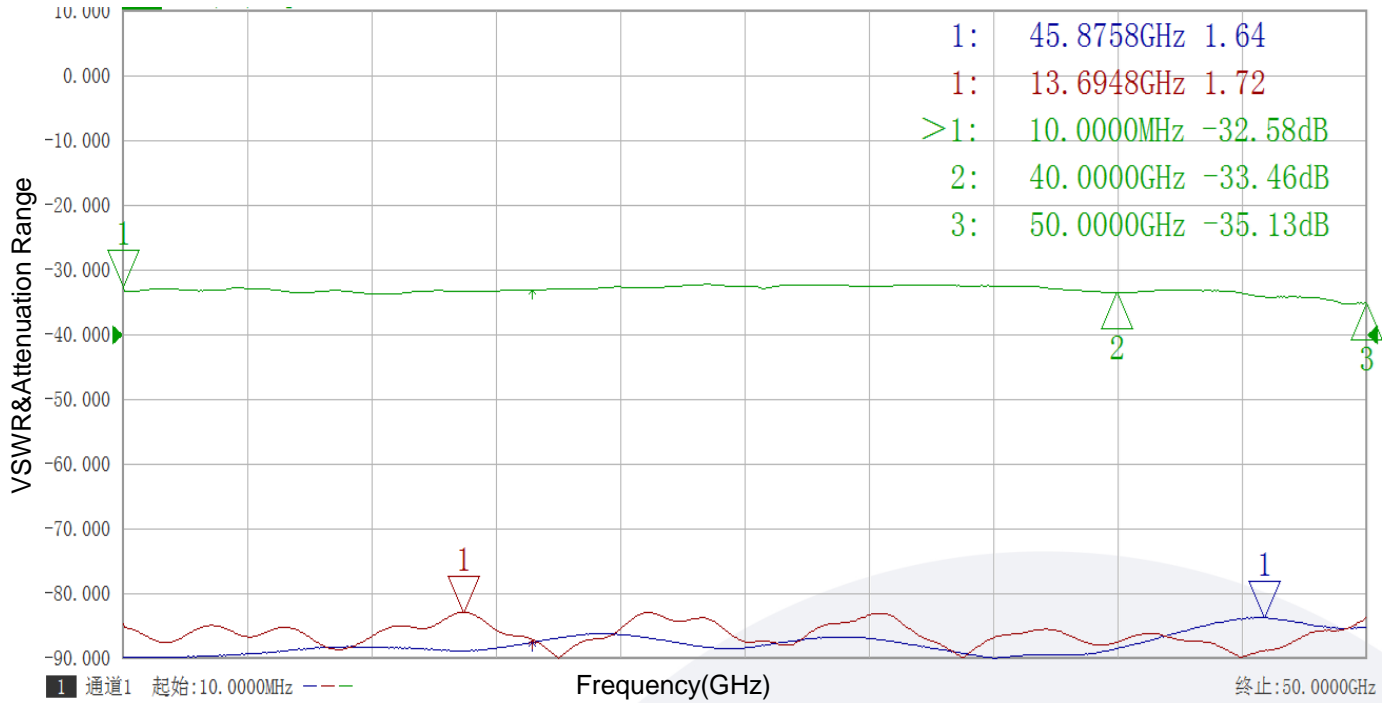




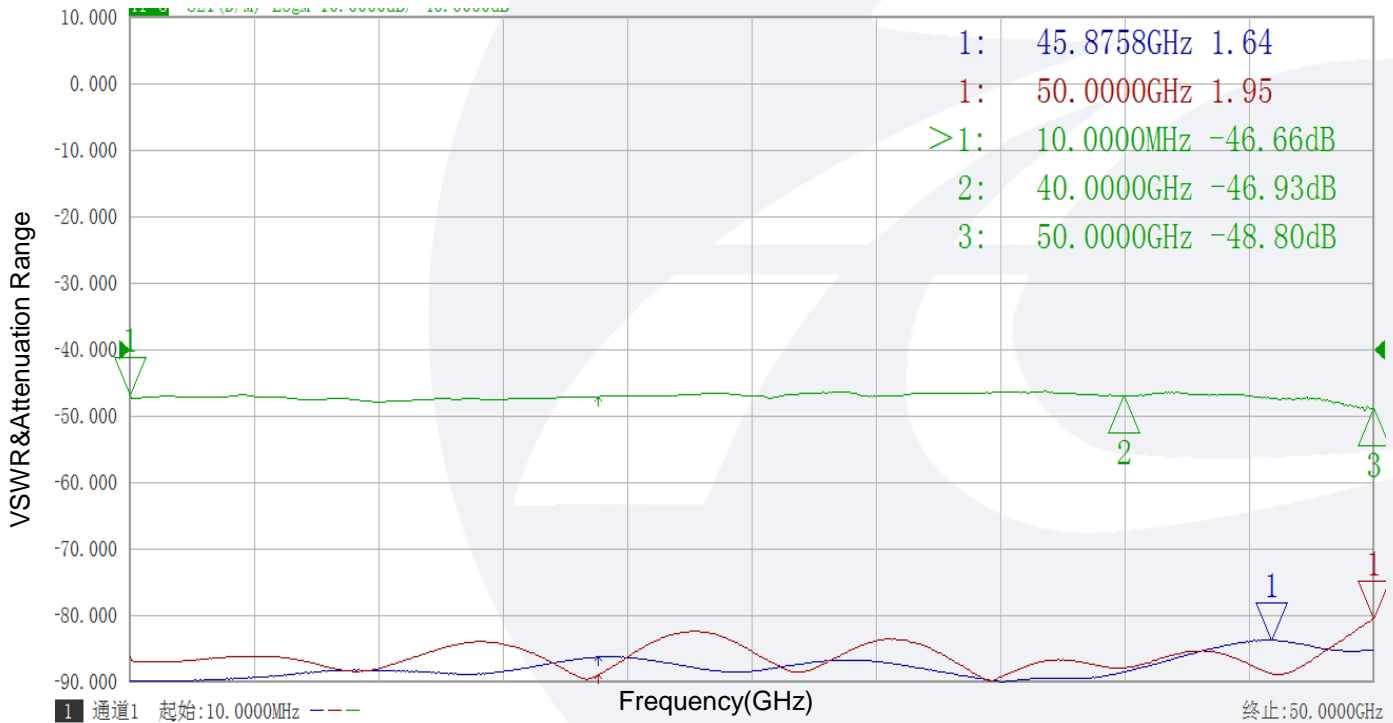
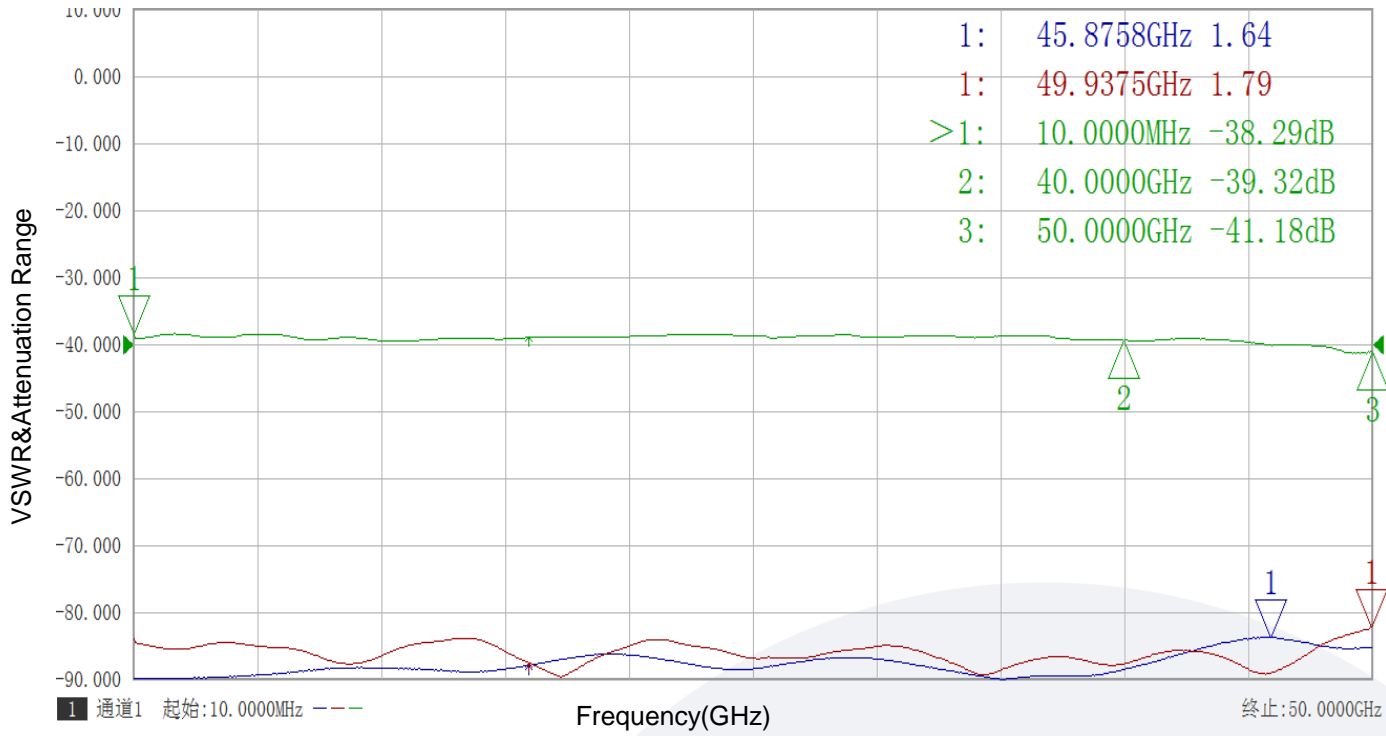
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