

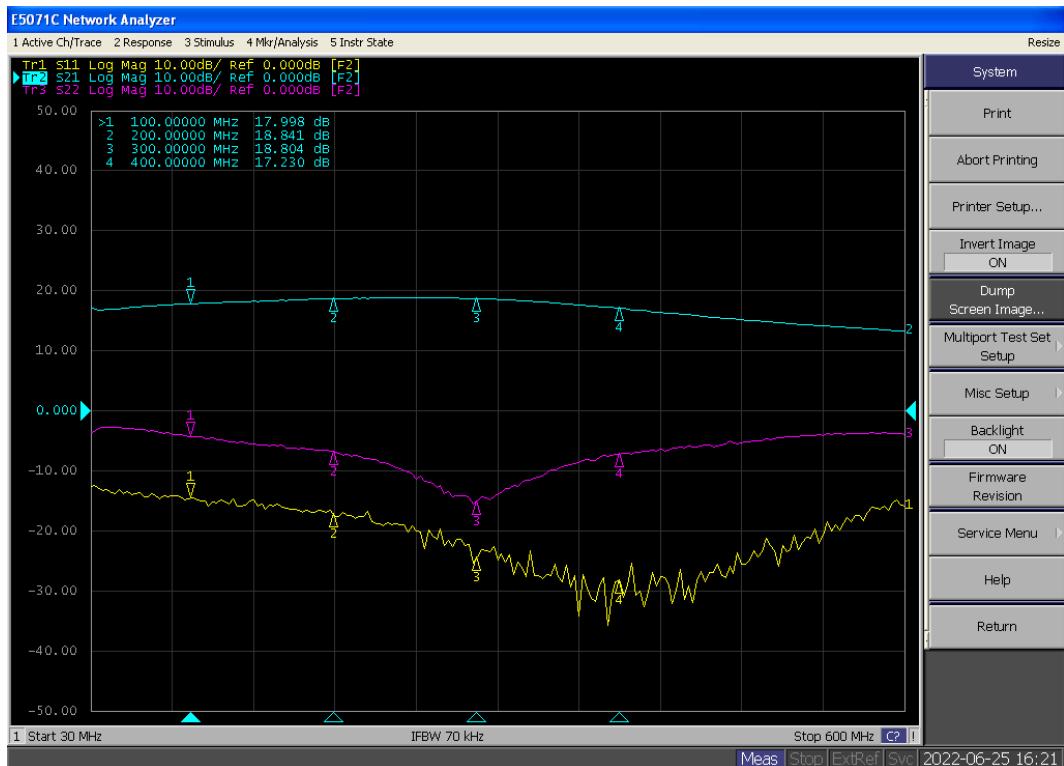


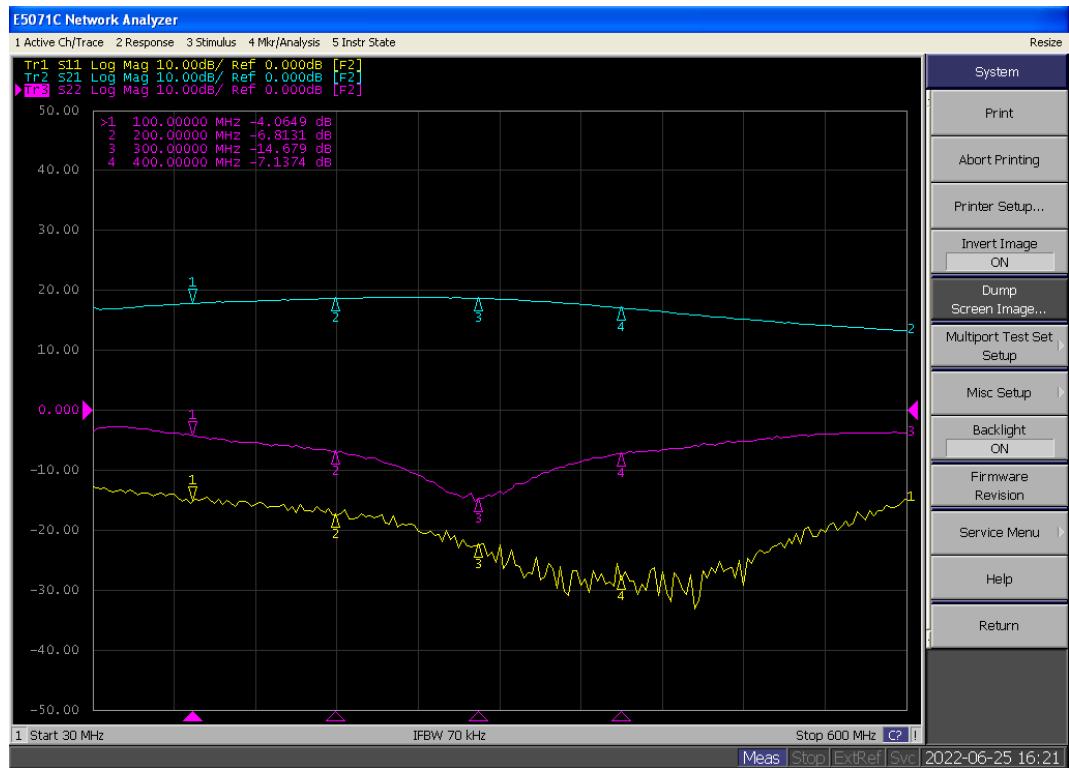
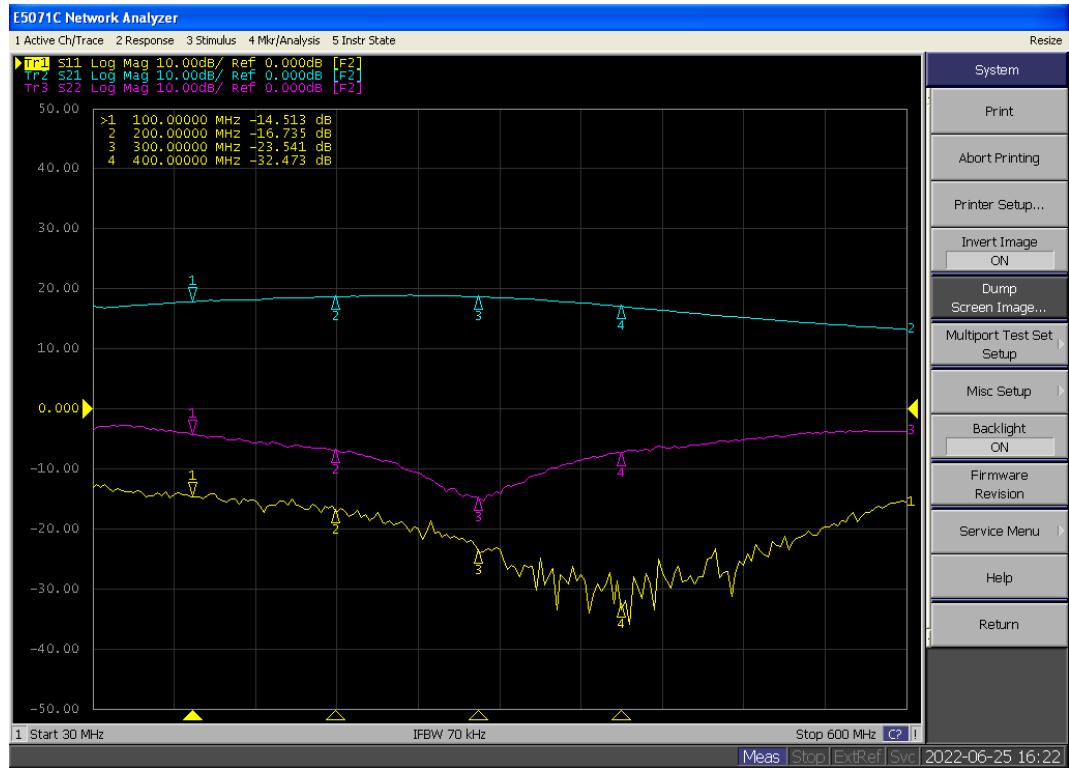
## ZDH1012 100-400MHz-5V 应用笔记

## 一、射频指标

工作频率 (Frq)	MHz	100	200	300	400
增益 (S21)	dB	17.99	18.84	18.80	17.23
输入回损 (S11)	dB	-14.51	-16.73	-23.54	-32.47
输出回损 (S22)	dB	-4.06	-6.81	-14.67	-7.14
P1dB 功率 (Pout)	dBm	25.41	26.19	24.82	24.42
输入功率(Pin)	dBm	8	8	7	8
P1dB 工作电流 (Icc)	mA	157	171	171	170
工作电压 (VCC)	V	5	5	5	5
静态电流 (Icq)	mA	161	161	161	161
OIP3	dBm	38.5	38.5	37	36.5
输出饱和功率 (Pout)	dBm	25.85	26.82	25.62	26.09
饱和时输入功率 (Pin)	dBm	11	12	12	12
饱和时工作电流 (Icc)	mA	127	153	164	176

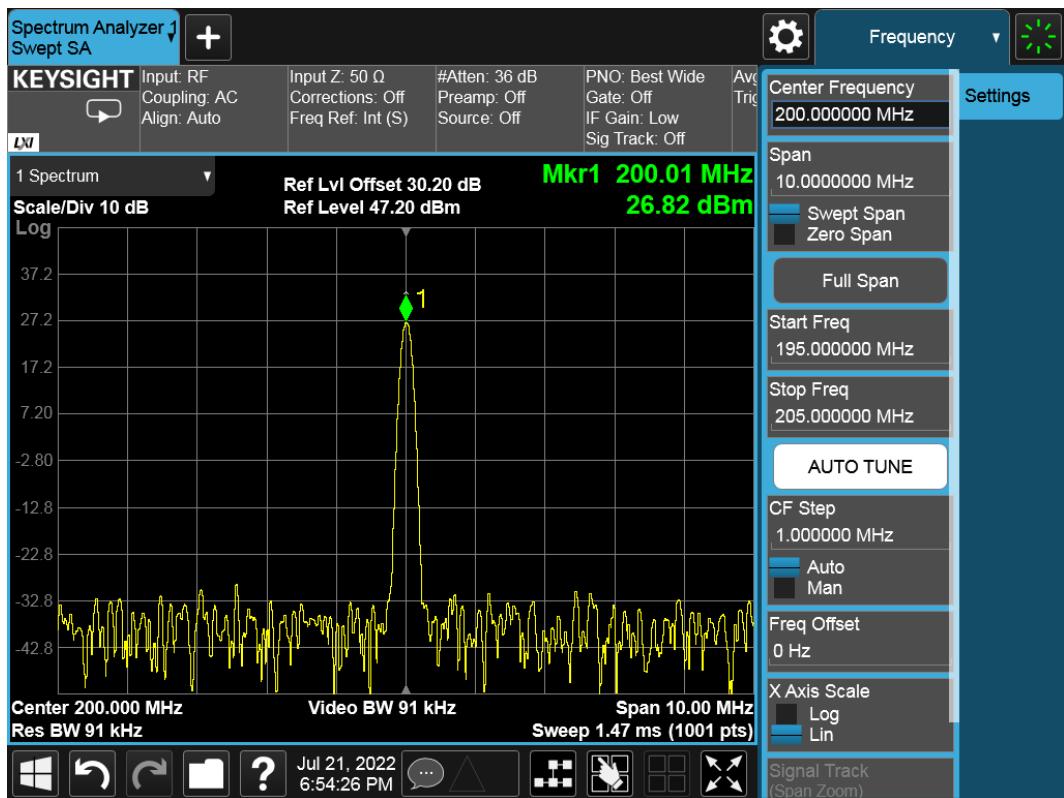
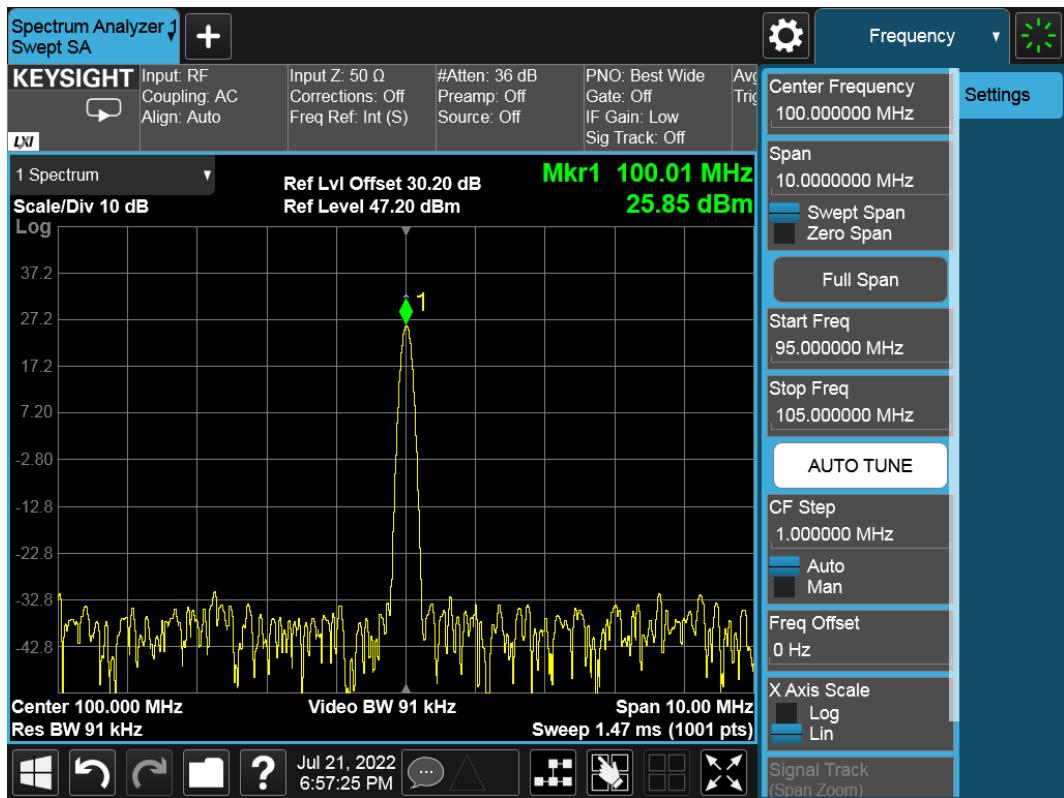
## 二、实测 S 参数图

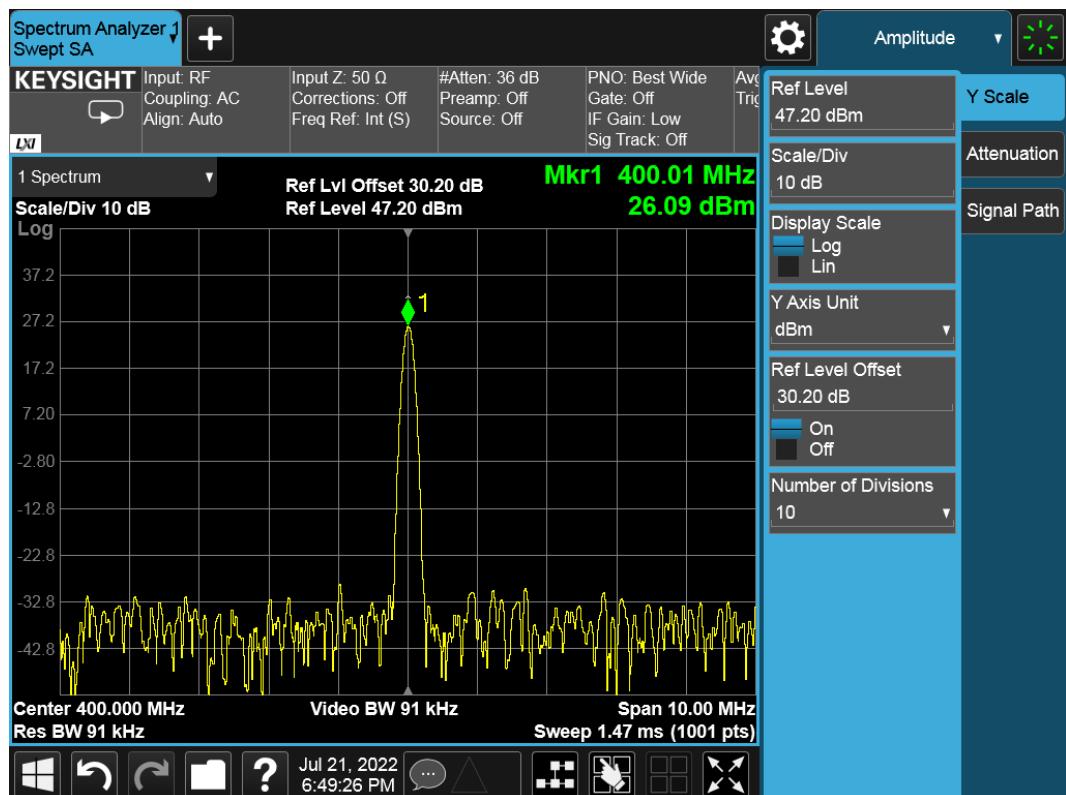
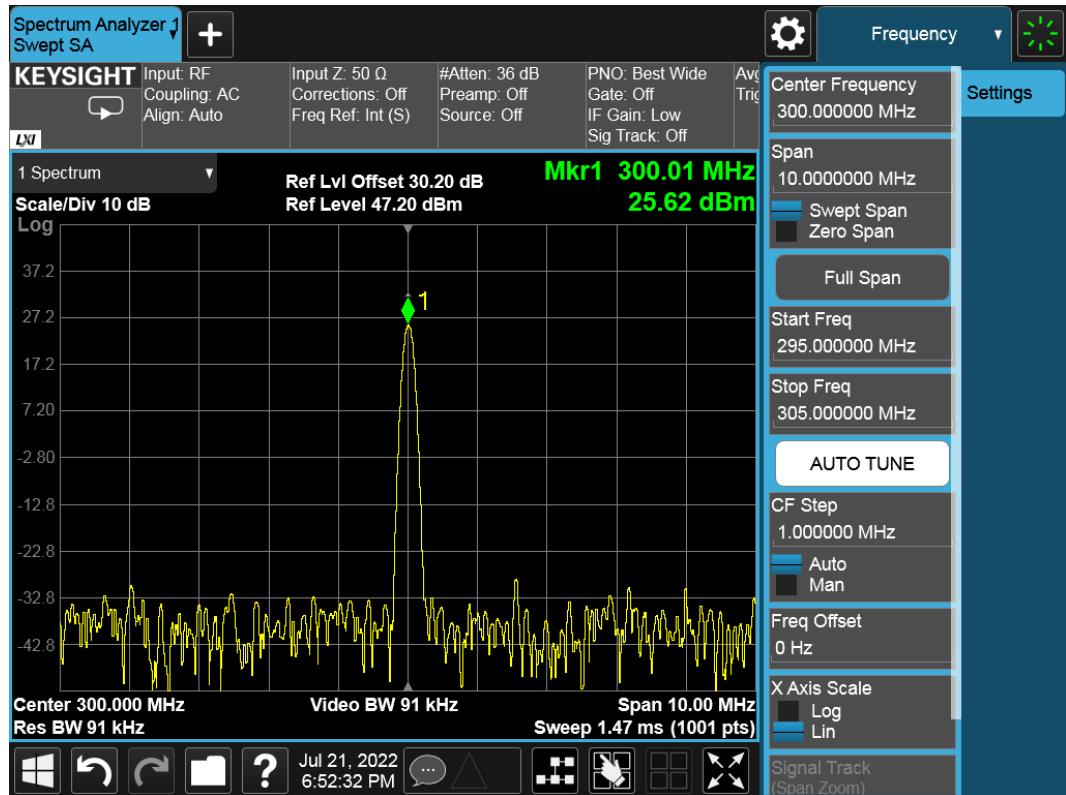






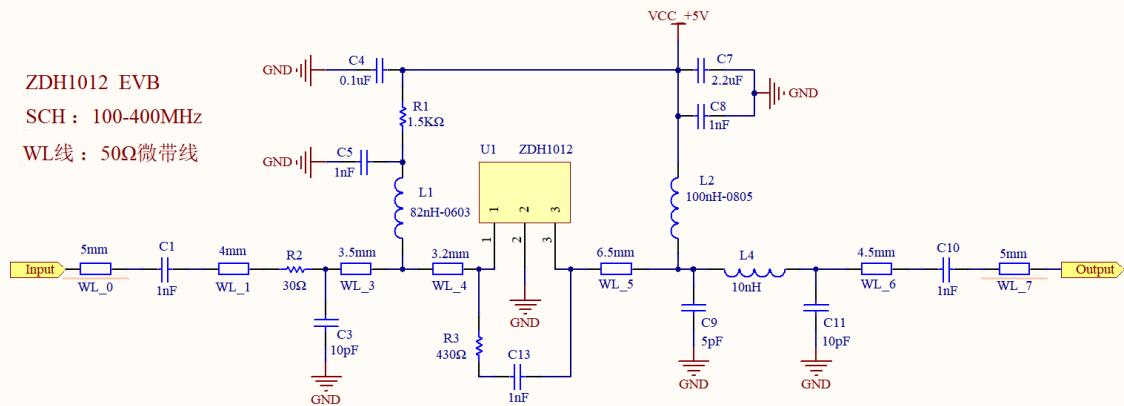
### 三、实测输出功率图





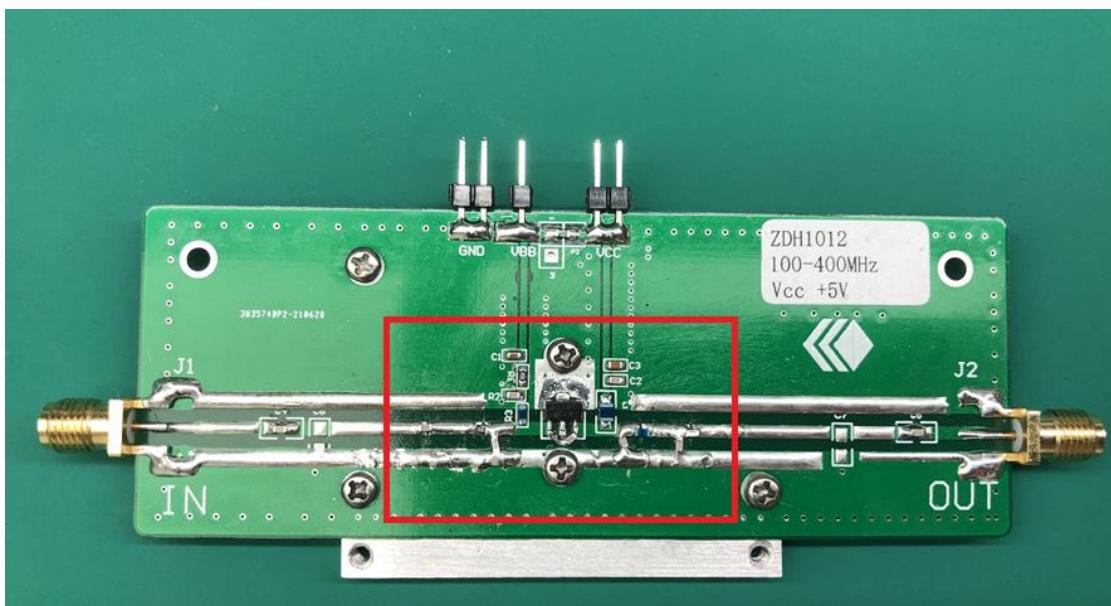


#### 四、评估板原理图



1、PCB板材介电常数4.4，板厚0.8mm，50欧姆微带线线宽1.5mm；

#### 五、评估板实物图



备注：1、请注意做好 PCB 的散热，否则容易造成放大芯片热损坏。

2、相关匹配电路，只需要满足红框内即可；

北京中电宏业科技有限公司

技术部

2022.7.21