

2G-18G-20W
Broadband Power Amplifier

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1. Small Signal Test:

Fig.1: Small Signal Gain at 25°C

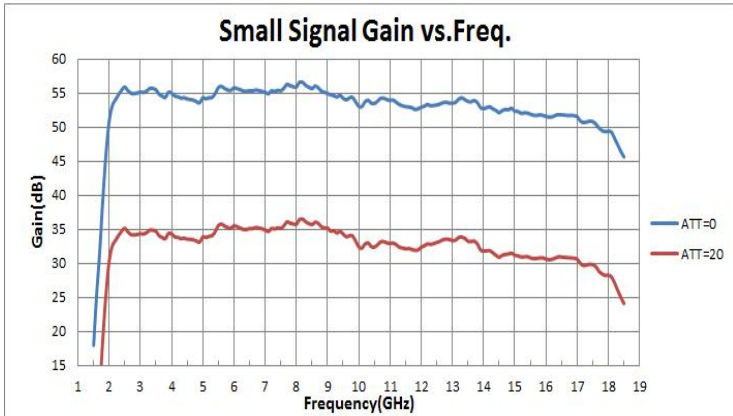
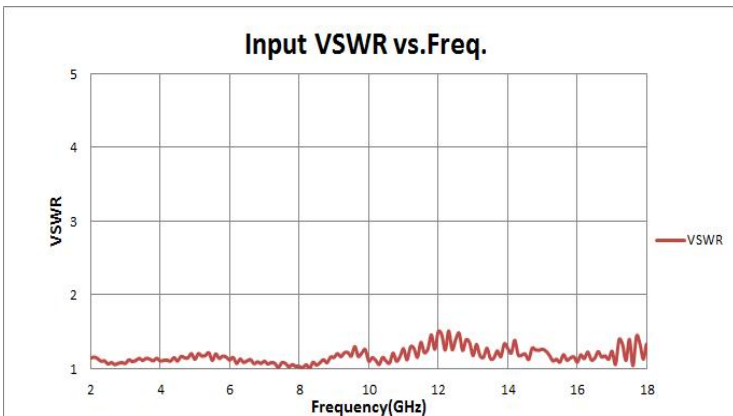


Fig.2: Input VSWR at 25°C



2. Large Signal Test:

Fig.3: P1dB, P3dB and Psat at 25°C

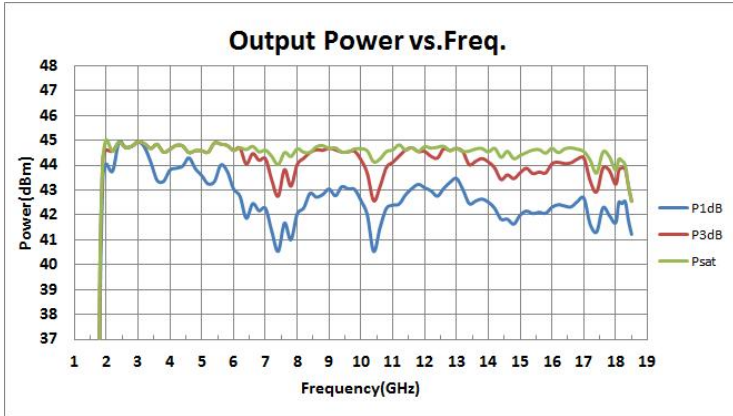


Fig.4: Power Gain at 25°C (Pout= 43dBm)

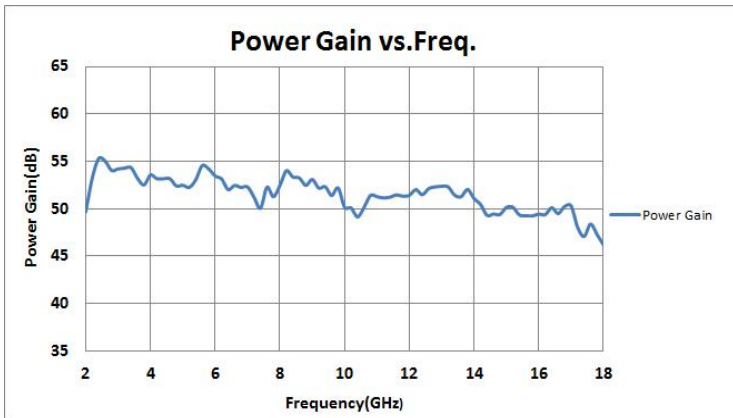


Fig.5: Output Power at 25°C

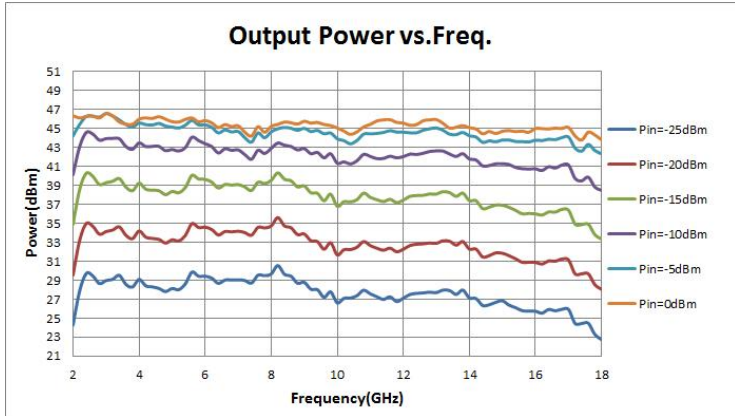


Fig.6: Gain Compression at 25°C

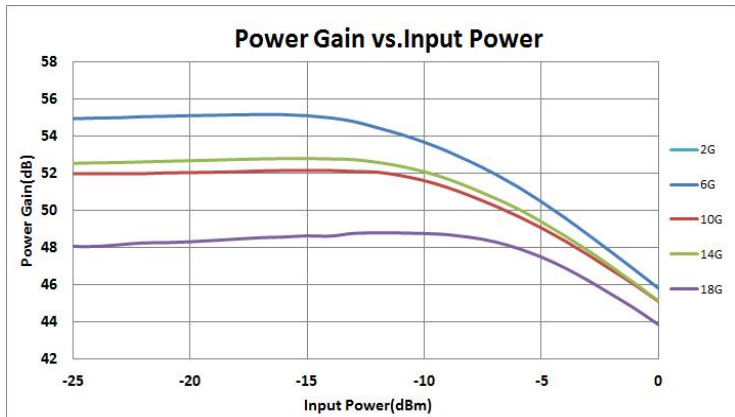


Fig.7: Output Power vs.Gain.at 25°C

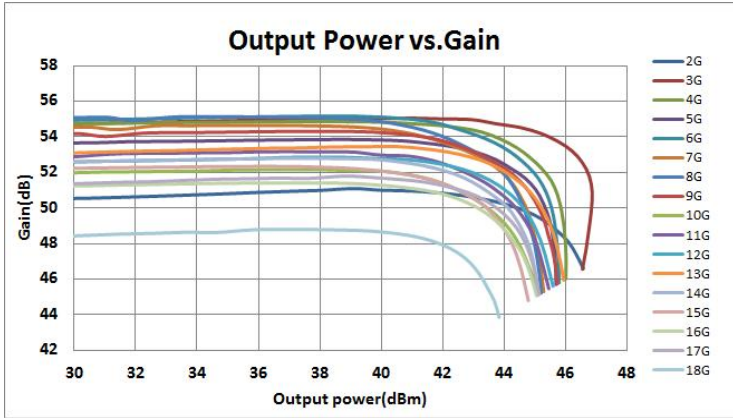


Fig.8: ACPR at 25°C

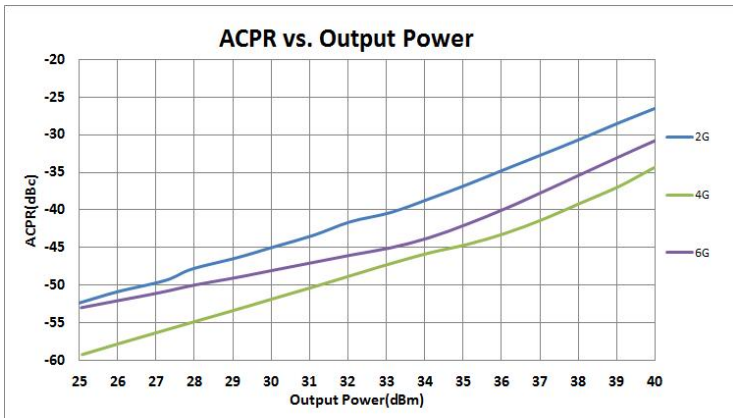
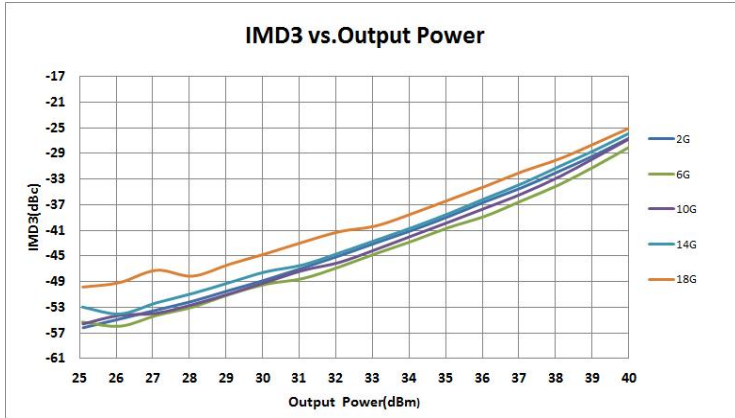


Fig.9: IMD3 at 25°C



3. Noise Test:

Fig.10: Noise Floor at 25°C

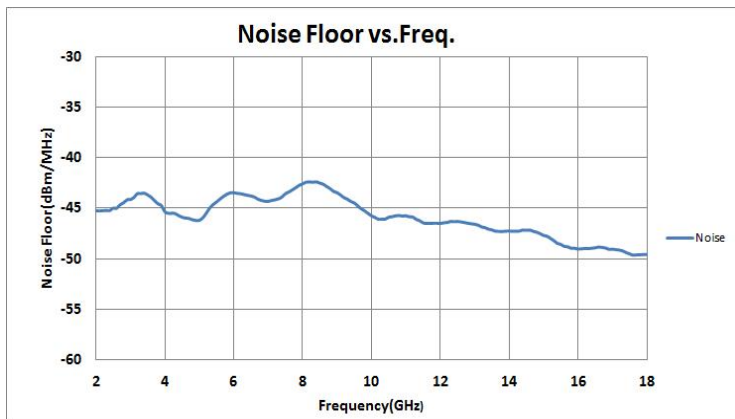


Fig.11: Noise Power at 25°C



Table1:

2nd Harmonic vs Frequency (@Pout=43dBm, 25°C)

3rd Harmonic vs Frequency (@Pout= 43dBm, 25°C)

Spurious vs Frequency (@Pout=43dBm, 25°C)

No.	Frequency (GHz)	2nd Harmonic (dBc)	3rd Harmonic (dBc)	Spurious (dBc)
1	2.0	-13.9	-20.0	-70.6
2	3.0	-34.2	-27.5	-69.5
3	4.0	-32.1	-23.4	-69.2
4	5.0	-33.3	-25.1	-68.9
5	6.0	-29.0	-24.1	-69.5
6	7.0	-23.2	-25.0	-65.5
7	8.0	-20.2	-29.3	-67.0
8	9.0	-22.9	-	-66.8
9	10.0	-23.4	-	-68.3
10	11.0	-27.8	-	-68.3
11	12.0	-29.1	-	-66.5
12	13.0	-38.0	-	-65.8
13	14.0	-	-	-65.5
14	15.0	-	-	-65.9
15	16.0	-	-	-66.3
16	17.0	-	-	-64.7
17	18.0	-	-	-63.4
