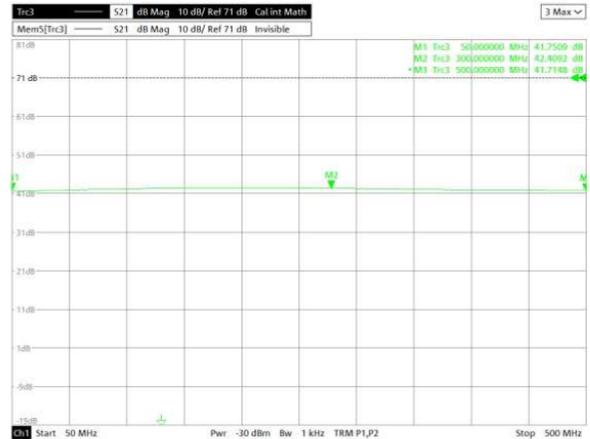
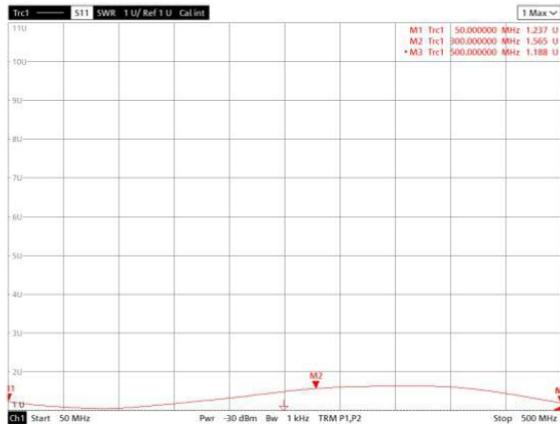


Quantic PMI Low Phase Noise SSPA

- **Product Number:** PA-LPN-40-50M500M-5-35DBM-SFF
- **Test Conditions:** Room Temperature Test
- **Environmental Conditions:** Temperature: 25 °C
- **Size:** 3.55" x 1.89" x 0.6"

1. INPUT VSWR、Gain and Gain Flatness

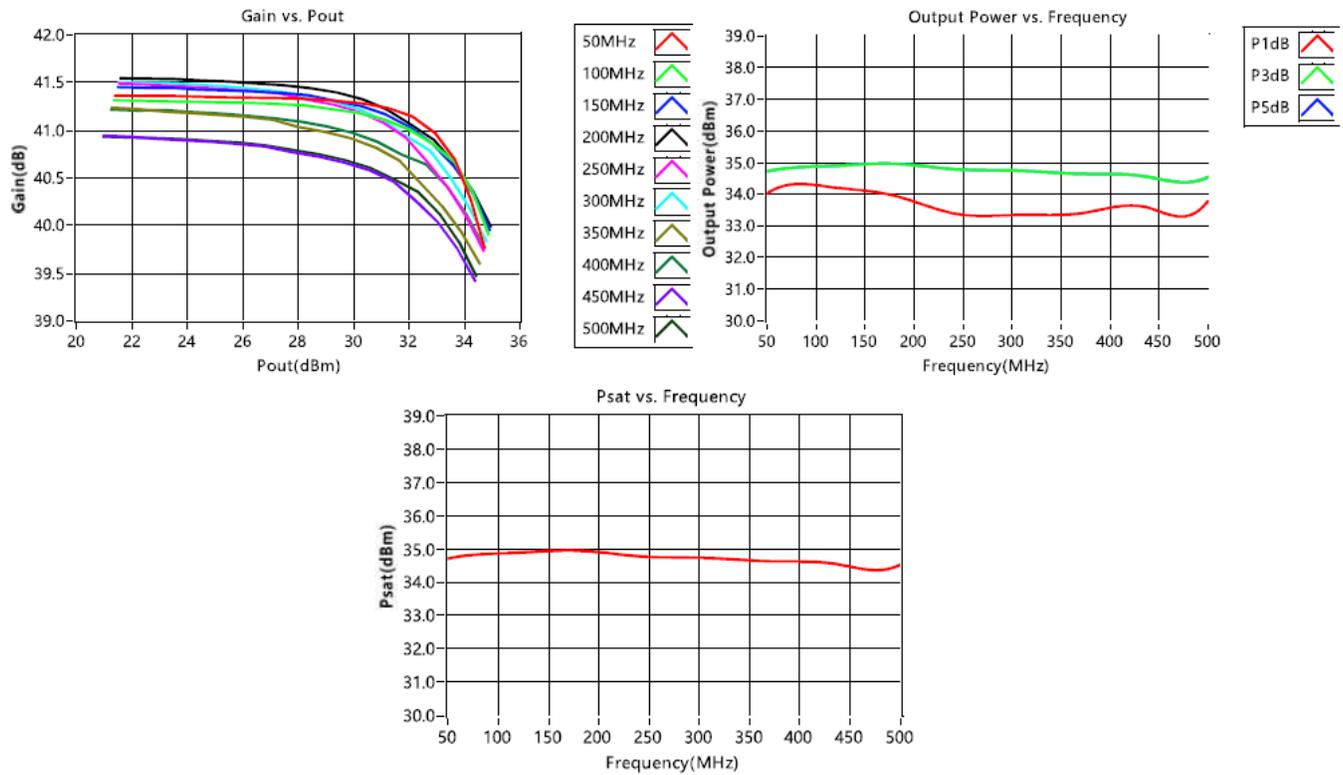
NO.	Parameter	Datasheet	Test	Result
1	INPUT VSWR	≤2	≤1.8	PASS
2	Gain	≥40dB	≥41dB	PASS
3	Gain Flatness	≤±3dB	≤±1dB	PASS





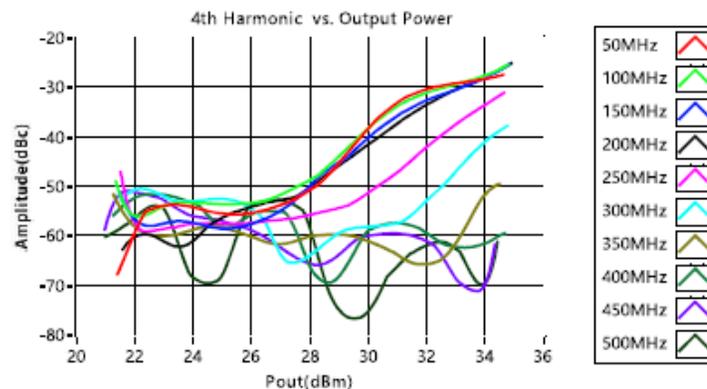
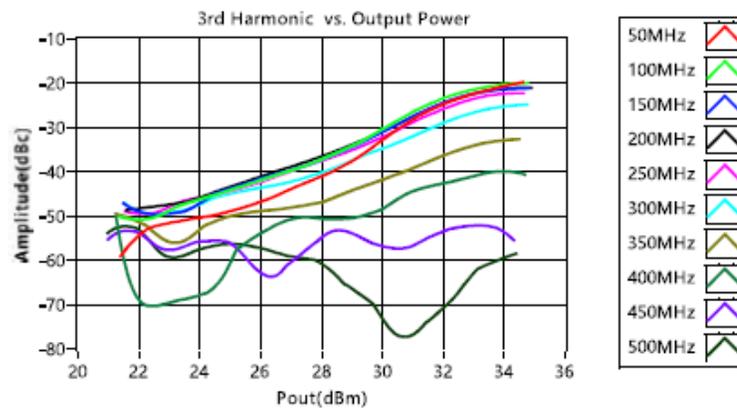
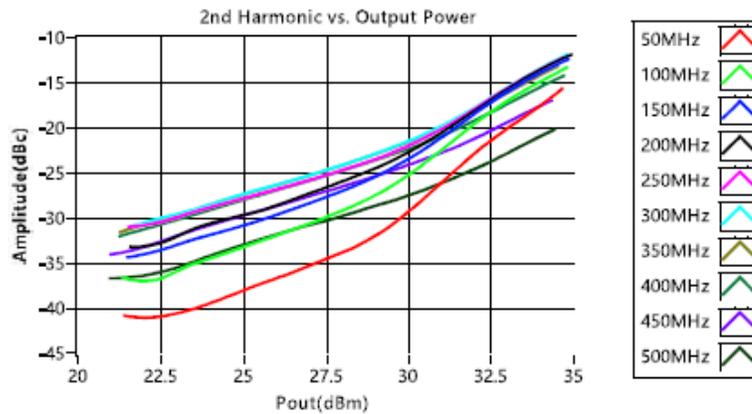
2. Output power

NO.	Parameter	Datasheet	Test	Result
1	P1	≥33dBm	≥33dBm	PASS
2	Psat	≥34dBm	≥34dBm	PASS



3. Harmonic

NO.	Parameter	Datasheet	Test	Result
1	2nd Harmonic		$\leq -12\text{dBc}@P_{\text{sat}}$	PASS
2	3rd Harmonic		$\leq -20\text{dBc}@P_{\text{sat}}$	PASS
3	4th Harmonic		$\leq -25\text{dBc}@P_{\text{sat}}$	PASS



4. Phase Noise @Pout 33dBm

NO.	Parameter	100Hz	1KHz	10KHz	100KHz	1MHz	10MHz
1	Phase Noise (50M)	-134.15dBc/Hz	-149.31dBc/Hz	-153.06dBc/Hz	-153.93dBc/Hz	-154.55dBc/Hz	-161.70dBc/Hz
2	Phase Noise (100M)	-138.17dBc/Hz	-147.42dBc/Hz	-154.12dBc/Hz	-158.59dBc/Hz	-162.29dBc/Hz	-162.82dBc/Hz
3	Phase Noise (200M)	-125.97dBc/Hz	-141.61dBc/Hz	-154.67dBc/Hz	-154.56dBc/Hz	-160.37dBc/Hz	-161.24dBc/Hz
4	Phase Noise (300M)	-119.66dBc/Hz	-141.08dBc/Hz	-150.41dBc/Hz	-153.34dBc/Hz	-157.58dBc/Hz	-160.90dBc/Hz
5	Phase Noise (400M)	-116.81dBc/Hz	-141.89dBc/Hz	-150.04dBc/Hz	-149.64dBc/Hz	-155.70dBc/Hz	-160.20dBc/Hz
6	Phase Noise (500M)	-120.81dBc/Hz	-134.71dBc/Hz	-148.74dBc/Hz	-148.74dBc/Hz	-154.76dBc/Hz	-162.48dBc/Hz



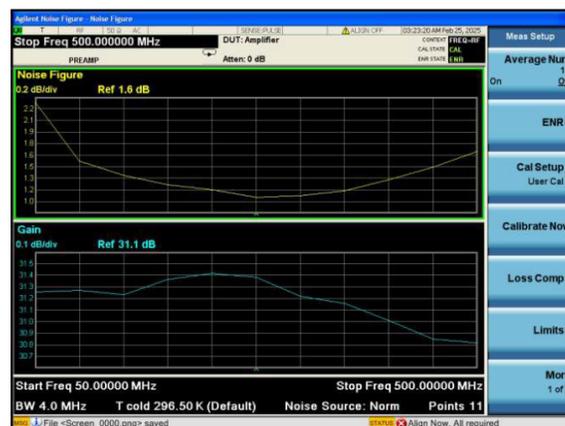






5. Noise Figure

NO.	Parameter	Datasheet	Test	Result
1	Noise Figure	≤5dB	≤3dB	PASS



6. Spurious

NO.	Parameter	Datasheet	Test	Result
1	Spurious	≤-60 dBc	≤-60dBc	PASS

7. Additive Phase Noise Measurements



