



Appendix A

RF Test Data for 900MHz (Conducted Measurement)

Product Name: 1-Output Expander

Test Model: PGMZ1M

Environmental Conditions

Temperature:	23.4°C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng



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Scan code to check authenticity

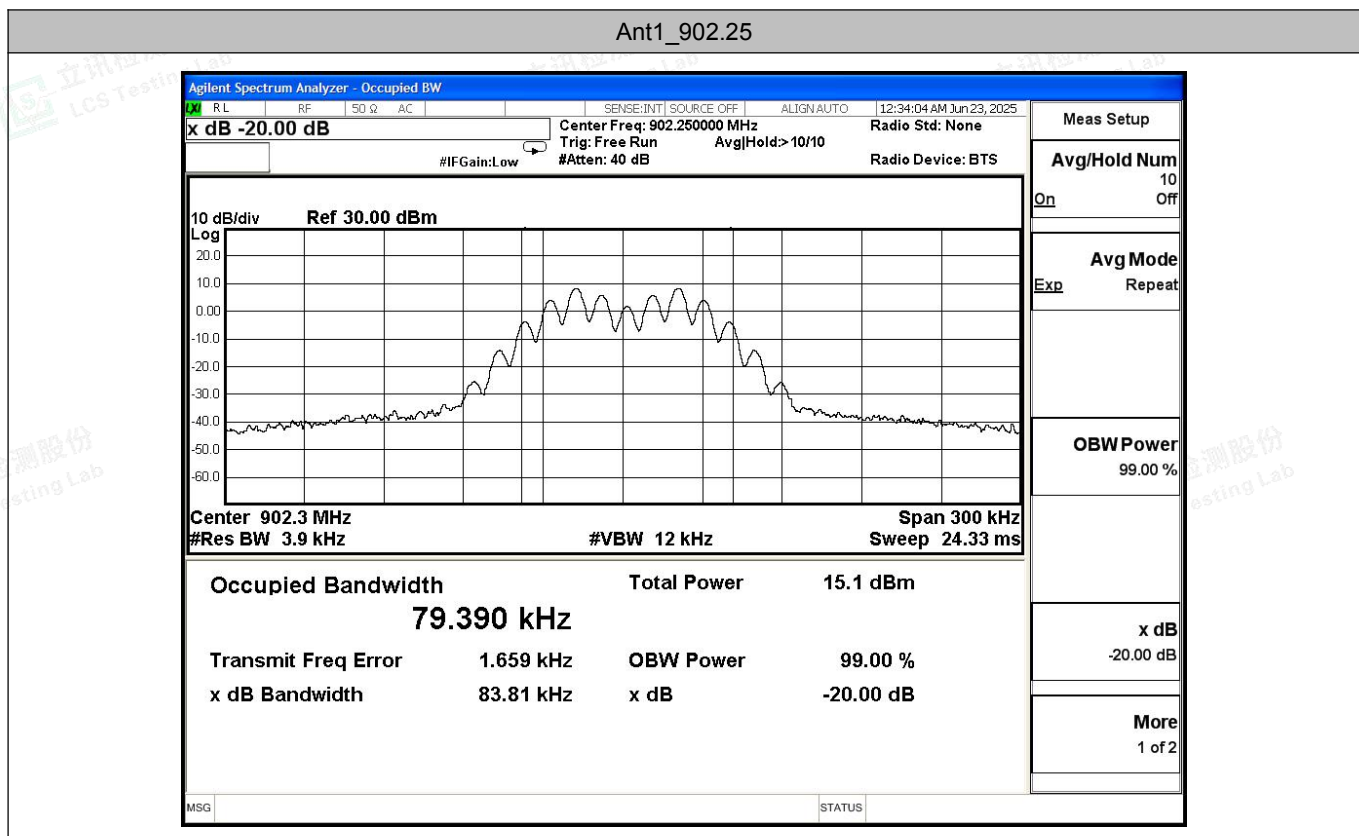


A.1 20dB Emission Bandwidth

Test Result

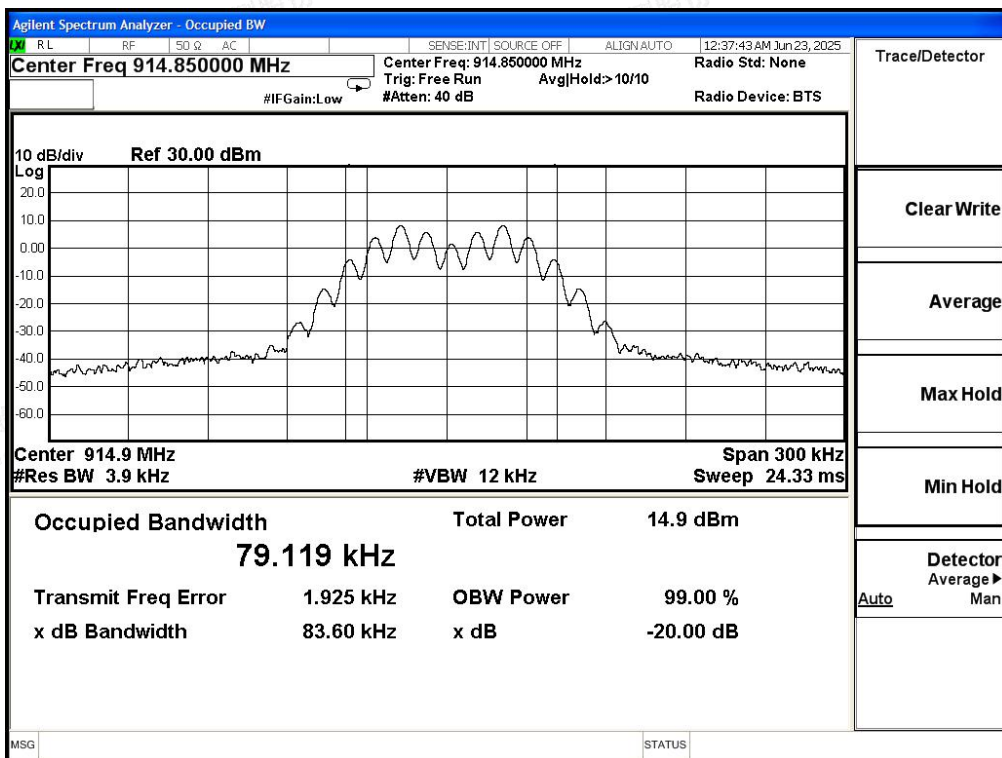
Antenna	Channel[MHz]	20db EBW[kHz]	Limit[MHz]	Verdict
Ant1	902.25	83.81	---	PASS
	914.85	83.60	---	PASS
	927.55	83.53	---	PASS

Test Graphs

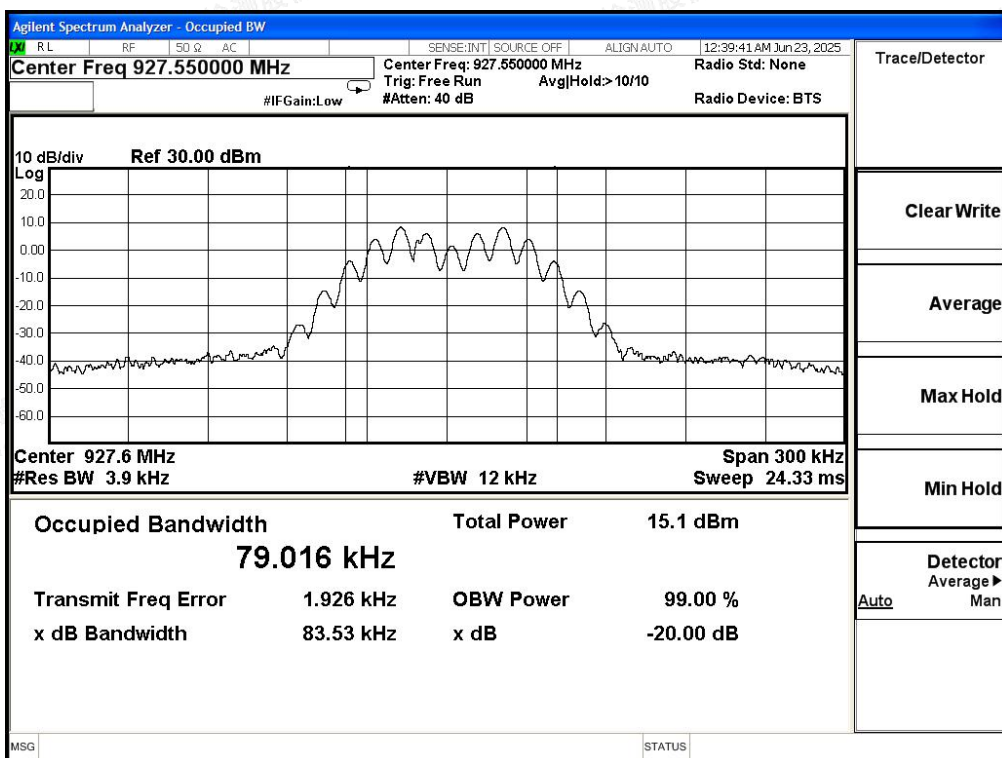




Ant1_914.85



Ant1_927.55



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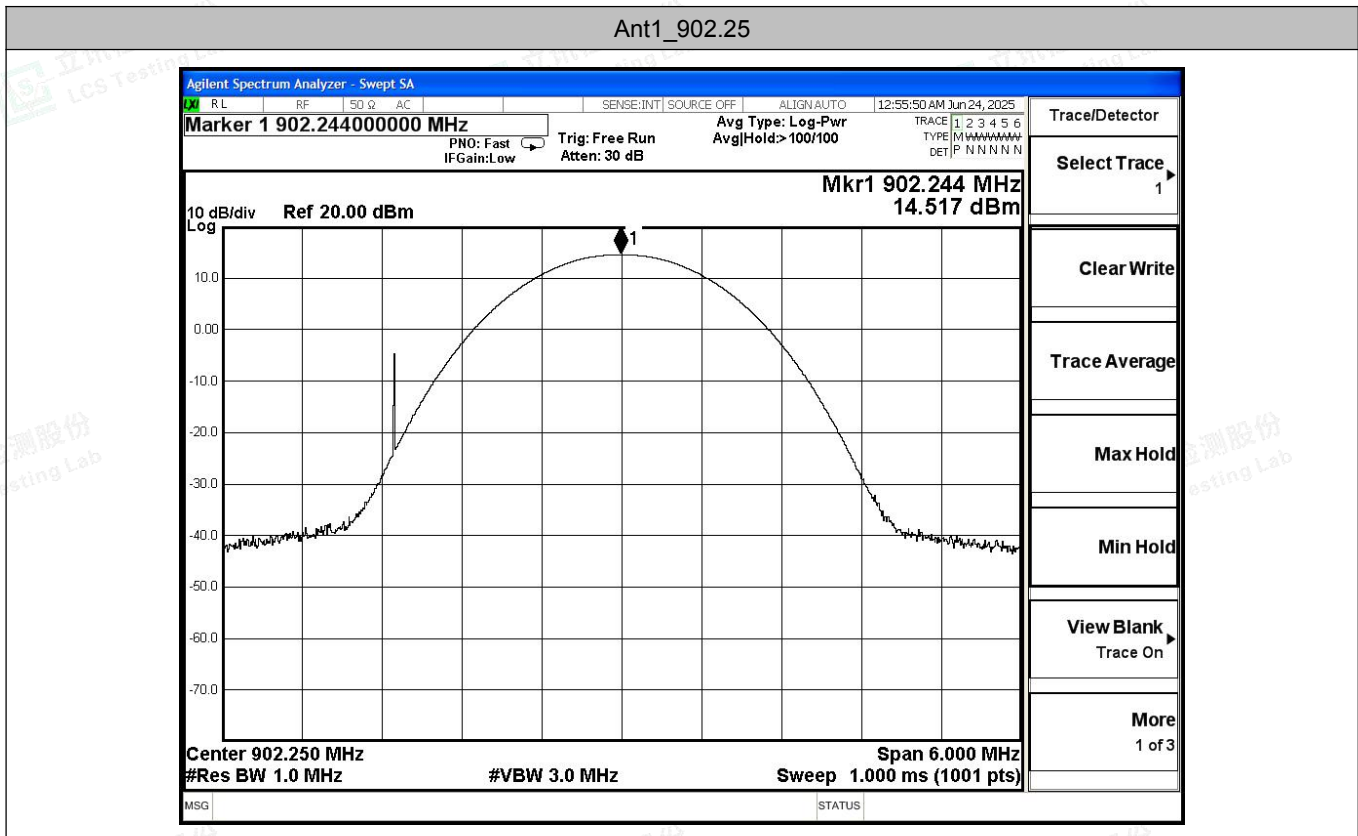


A.2 Maximum Peak Conducted Output Power

Test Result

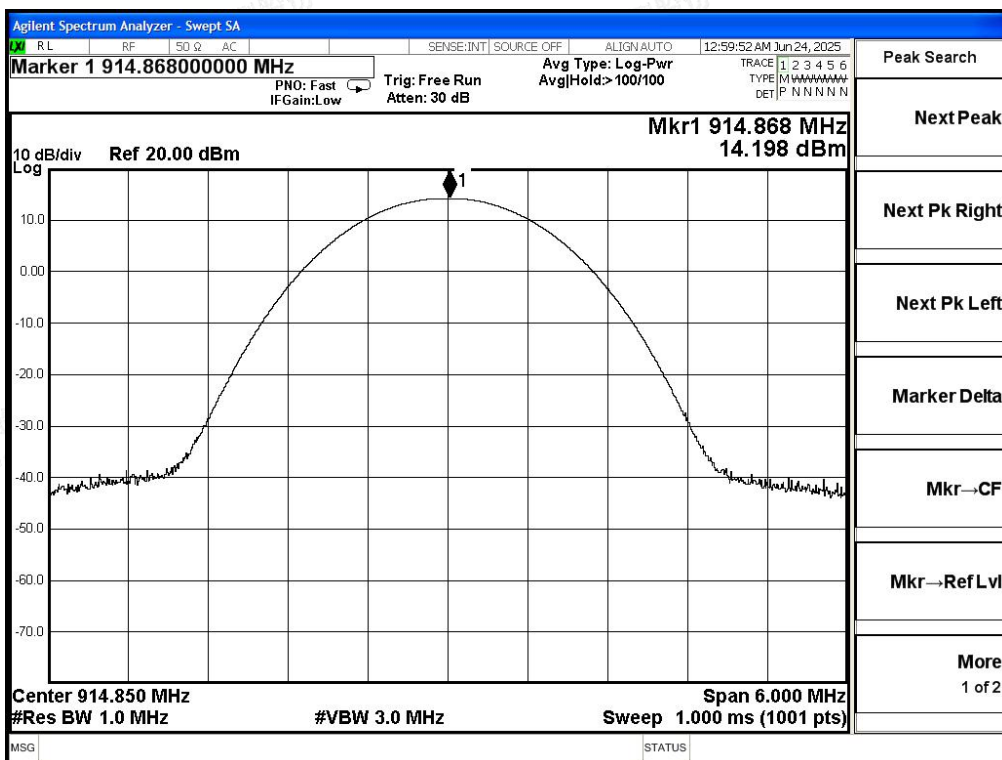
Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Ant1	902.25	14.517	≤30	PASS
	914.85	14.198	≤30	PASS
	927.55	14.472	≤30	PASS

Test Graphs

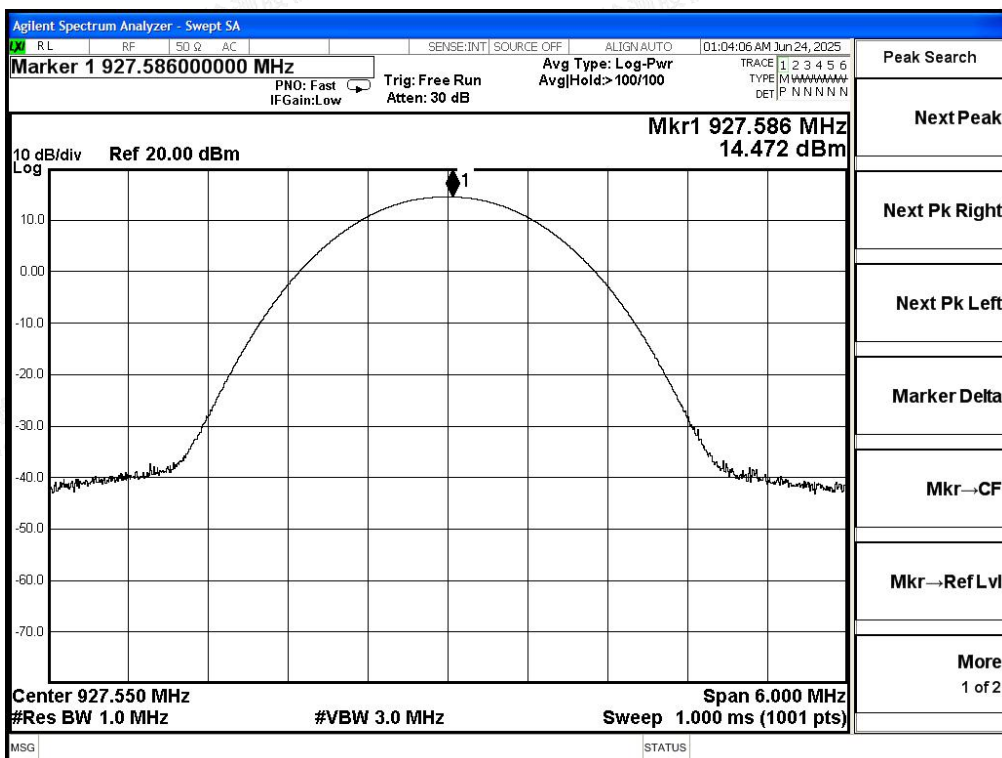




Ant1_914.85



Ant1_927.55



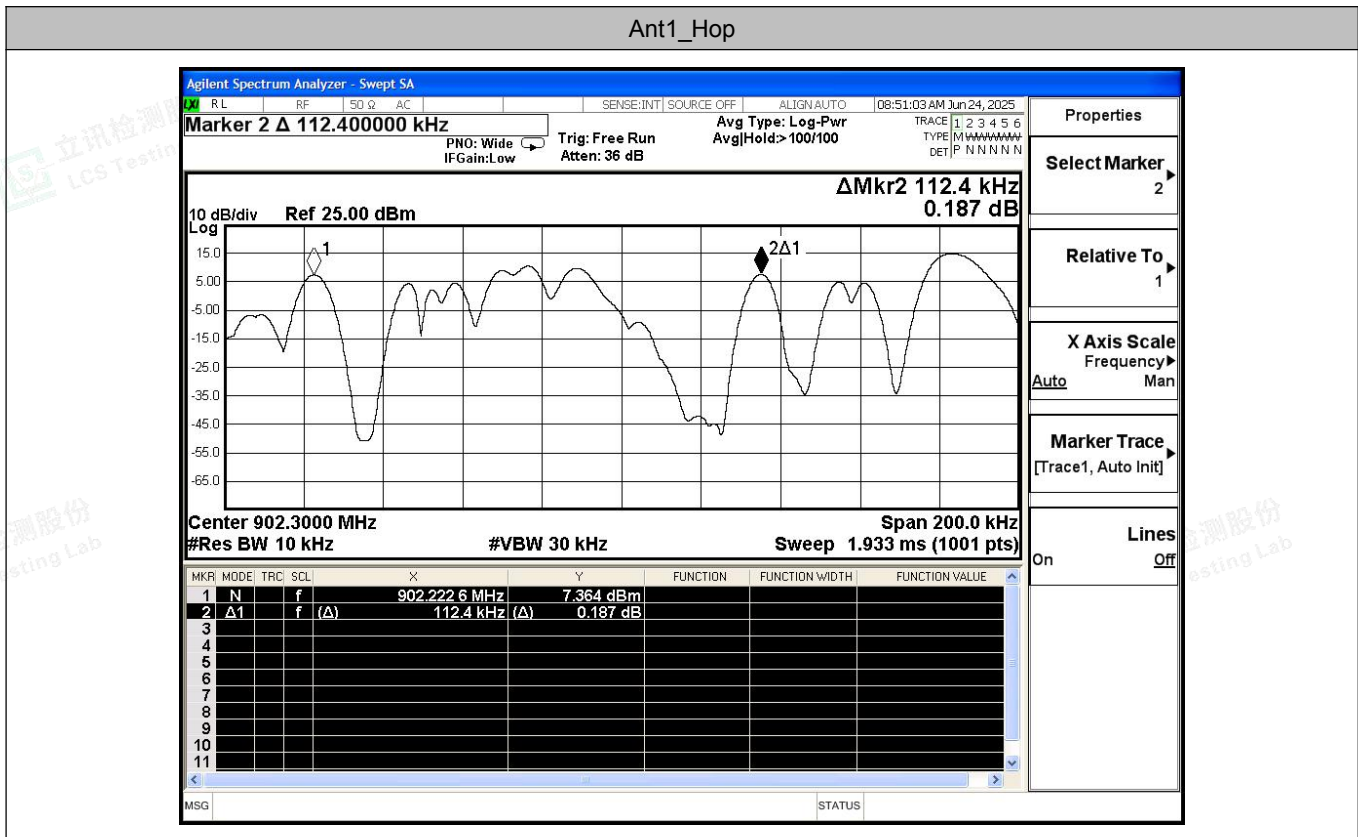


A.3 Carrier frequency separation

Test Result

Antenna	Channel[MHz]	Result[kHz]	Limit[kHz]	Verdict
Ant1	Hop	112.4	--	PASS

Test Graphs





A.4 Time of occupancy

Test Result

Antenna	Channel[MHz]	Burst Width[ms]	Total Hops[Num]	Result[ms]	Limit[ms]	Verdict
Ant1	Hop	16.98	3	50.94	<=400	PASS

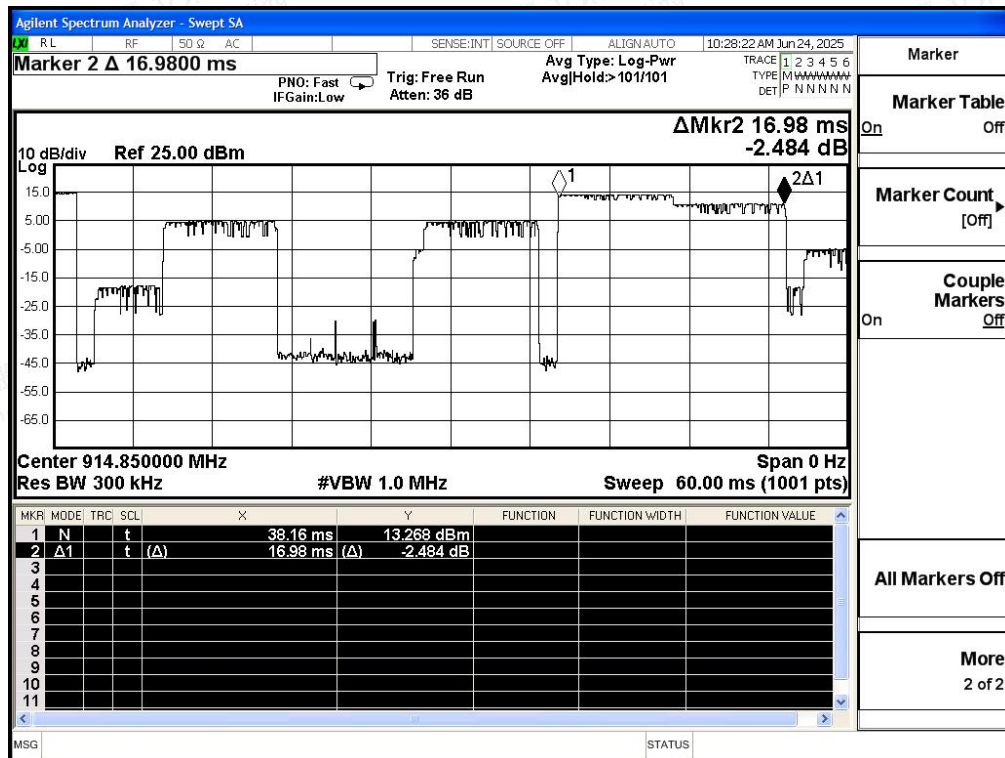


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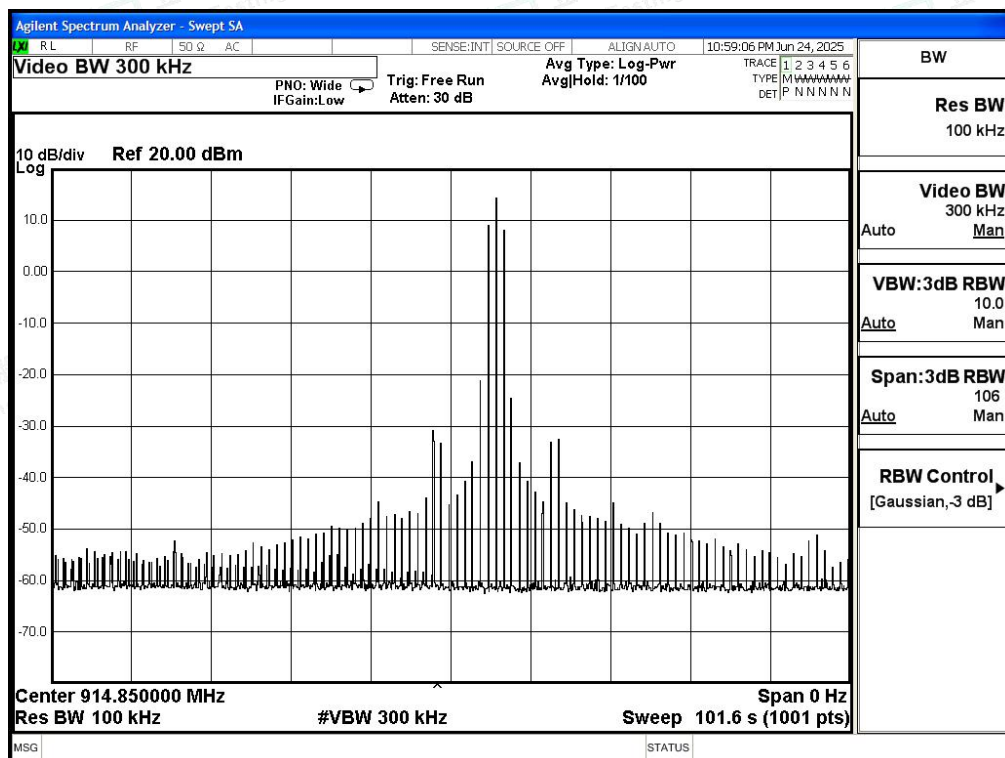


Test Graphs

Ant1_Hop



Ant1_Hop



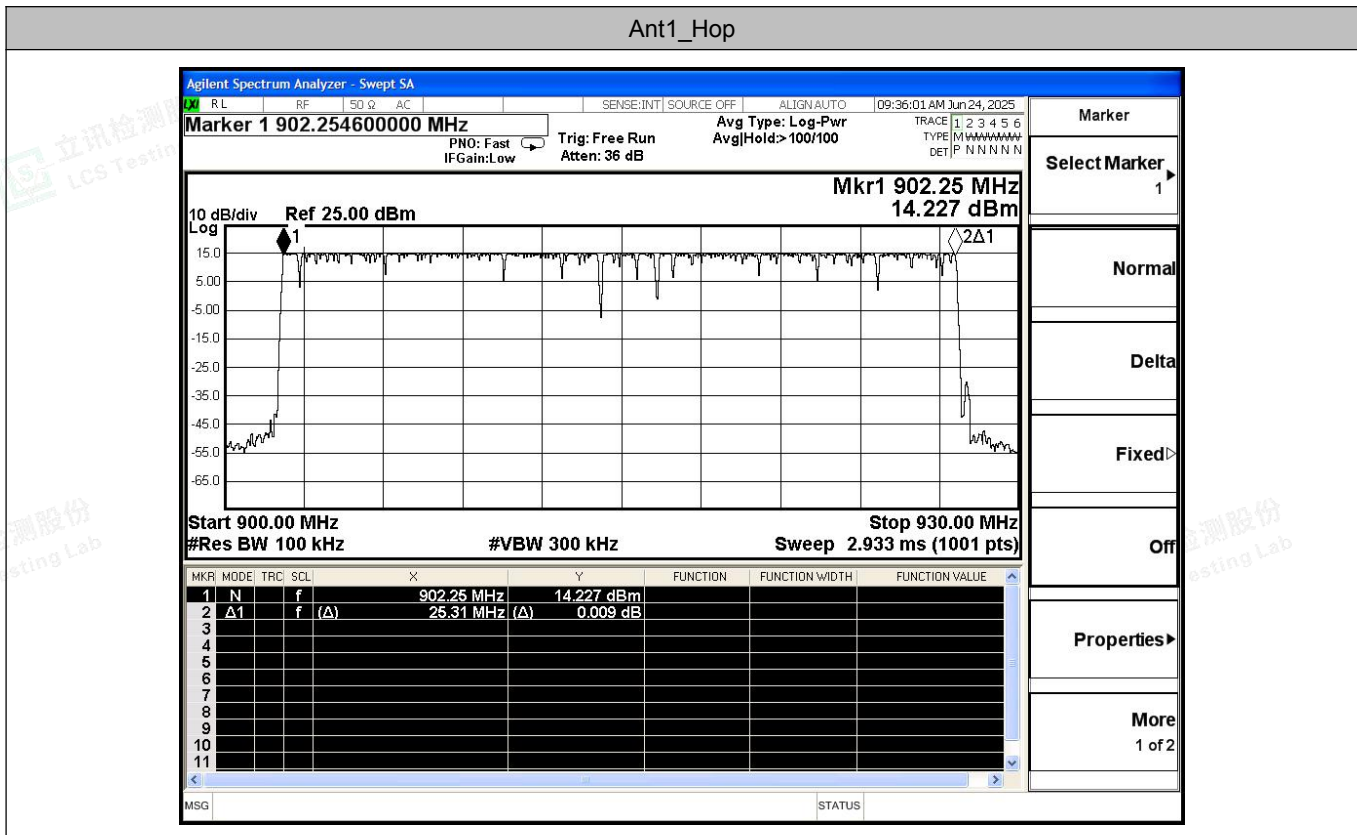


A.5 Number of hopping channels

Test Result

Antenna	Channel	Result[Num]	Limit[Num]	Verdict
Ant1	Hop	254	>=50	PASS

Test Graphs



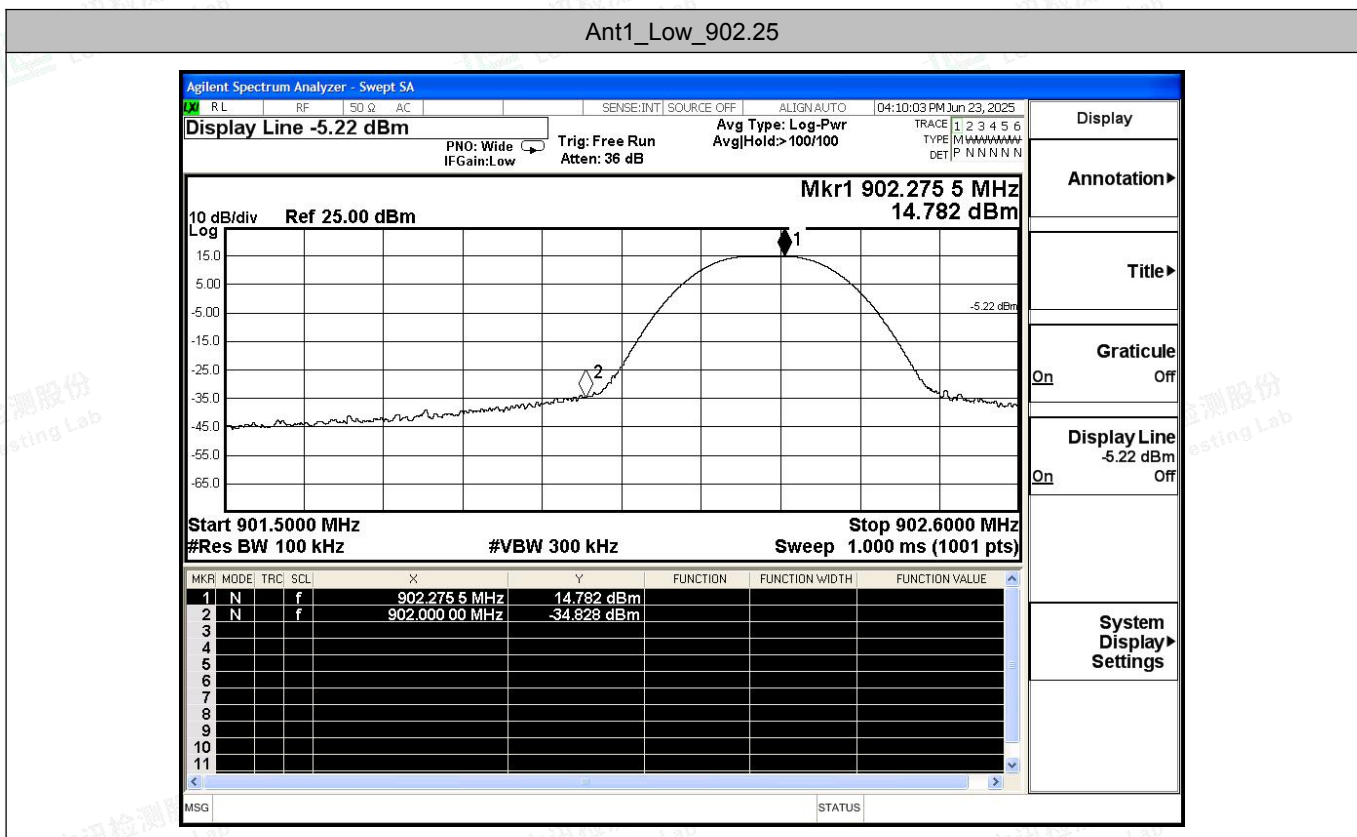


A.6 Band edge measurements

Test Result

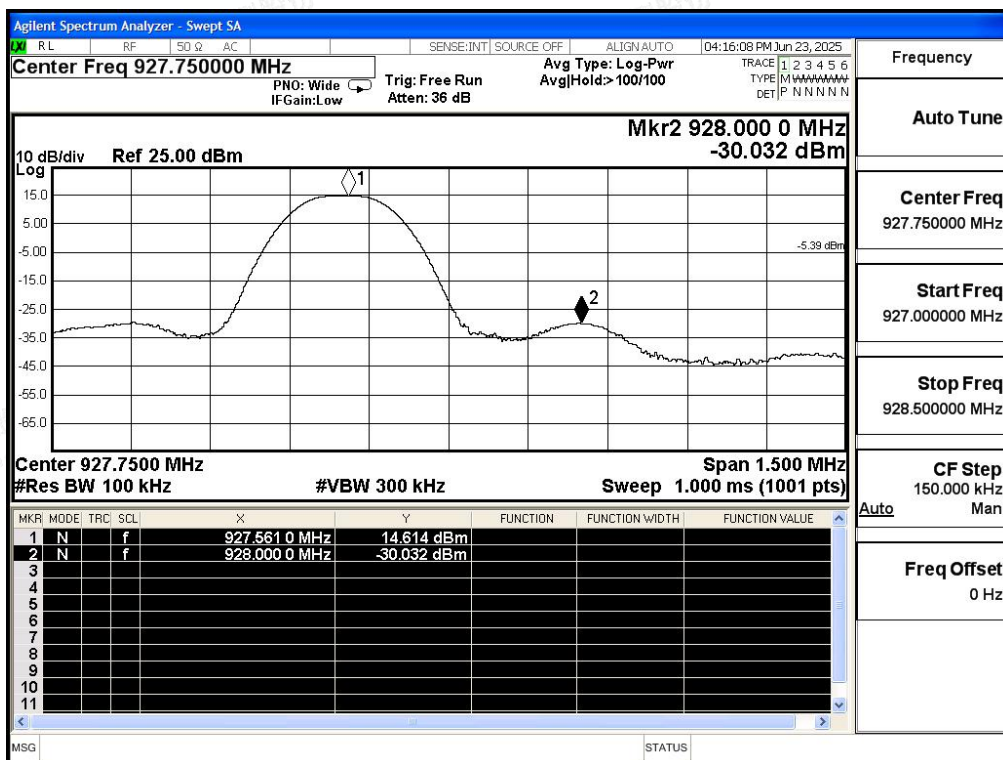
Antenna	Ch Name	Channel[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
Ant1	Low	902.25	14.782	-34.828	<=7.66	PASS
	High	927.55	14.614	-30.032	<=7.92	PASS
	Low	902.25	14.785	-42.463	<=-5.28	PASS
	High	927.55	14.604	-31.246	<=-5.46	PASS

Test Graphs

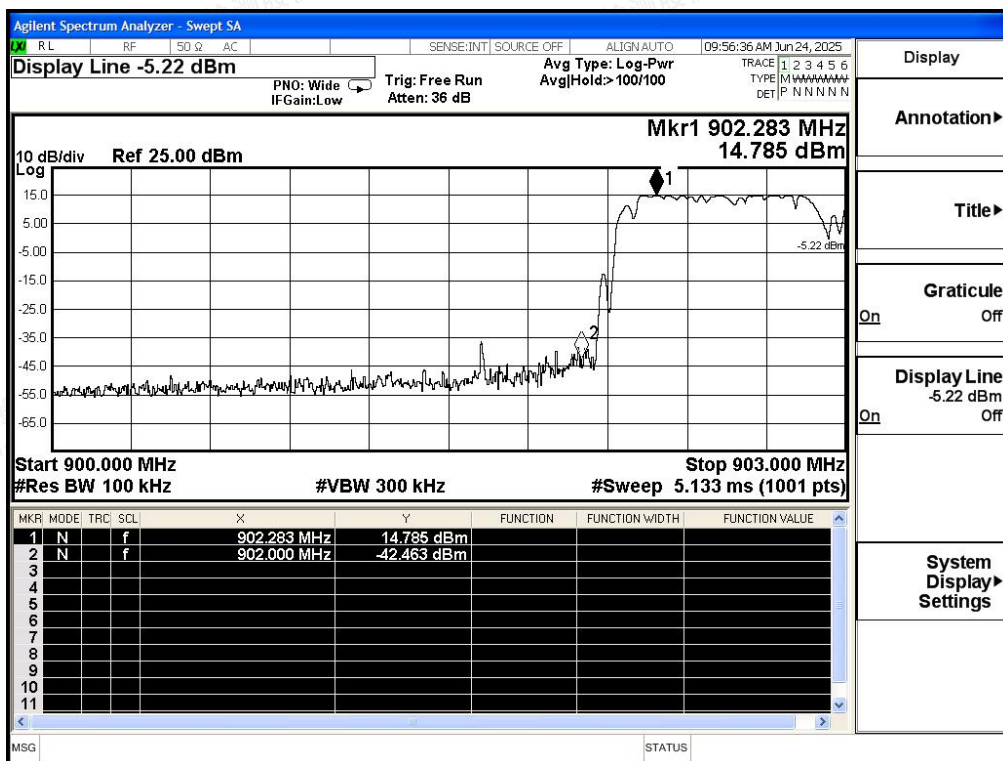




Ant1_High_927.55

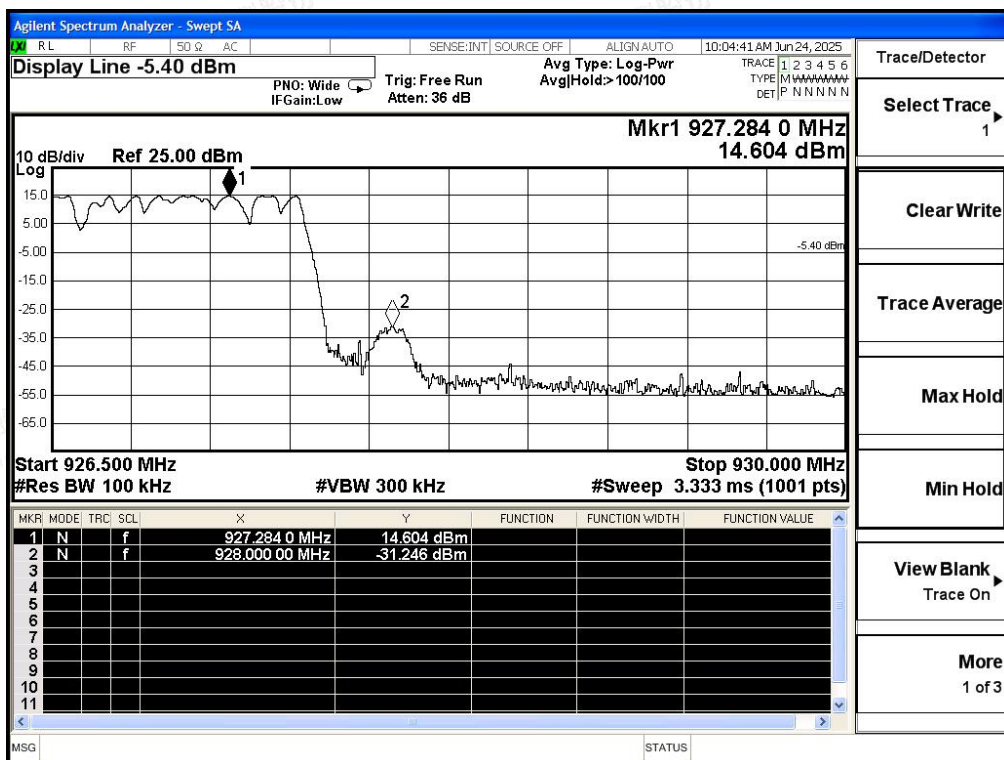


Ant1_Low_Hop_902.25





Ant1_High_Hop_927.55





A.7 Conducted Spurious Emission

Test Result

Antenna	Channel[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
Ant1	902.25	30~26500	14.879	-21.528	<=-3.50	PASS
	914.85	30~26500	14.708	-21.474	<=-3.14	PASS
	927.55	30~26500	14.669	-26.089	<=-3.10	PASS

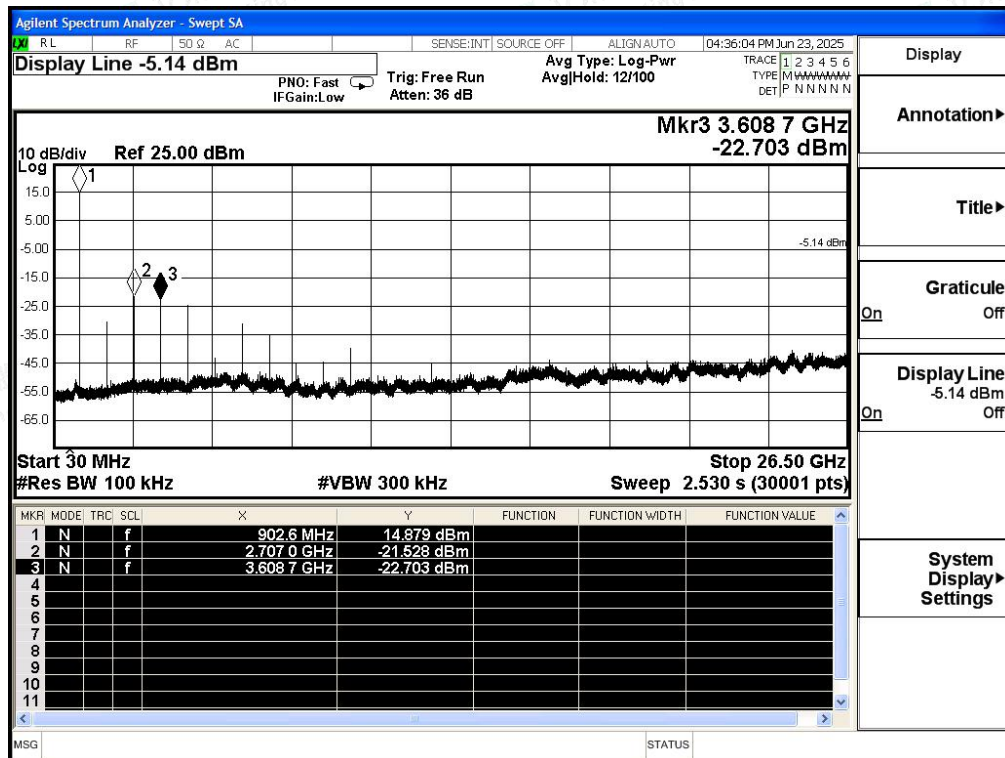


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Test Graphs

Ant1_902.25_30~26500



Ant1_914.85_30~26500

