



Appendix A

RF Test Data for 900MHz (Conducted Measurement)

Product Name: Water Detector

Test Model: WD2M

Environmental Conditions

Temperature:	23.6°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Billy Yu
Supervised by:	Can Kun



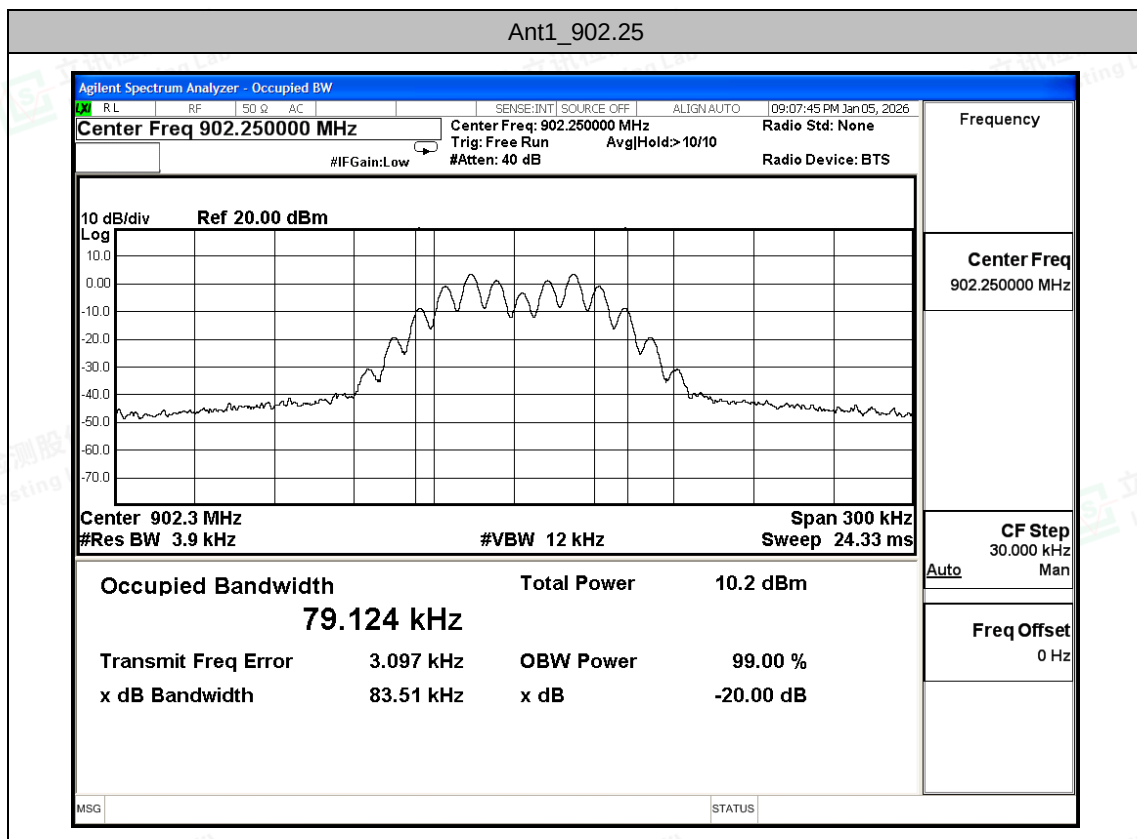


A.1 20dB Emission Bandwidth

Test Result

Antenna	Channel[MHz]	20db EBW[kHz]	Limit[MHz]	Verdict
Ant1	902.25	83.51	---	PASS
	914.85	83.89	---	PASS
	927.55	83.64	---	PASS

Test Graphs



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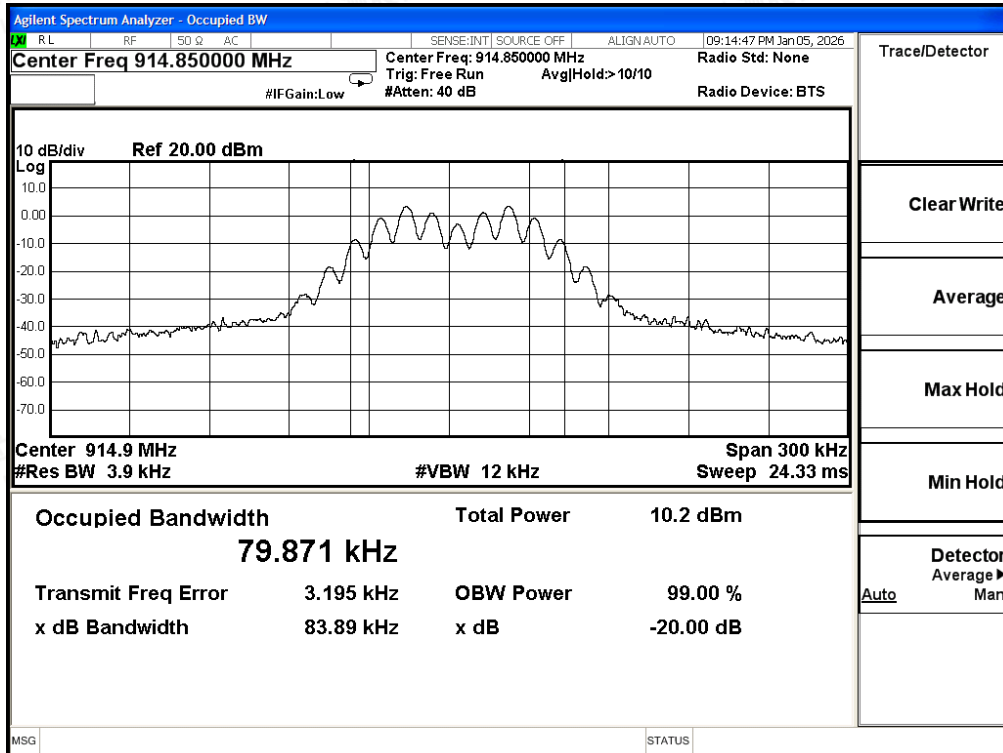
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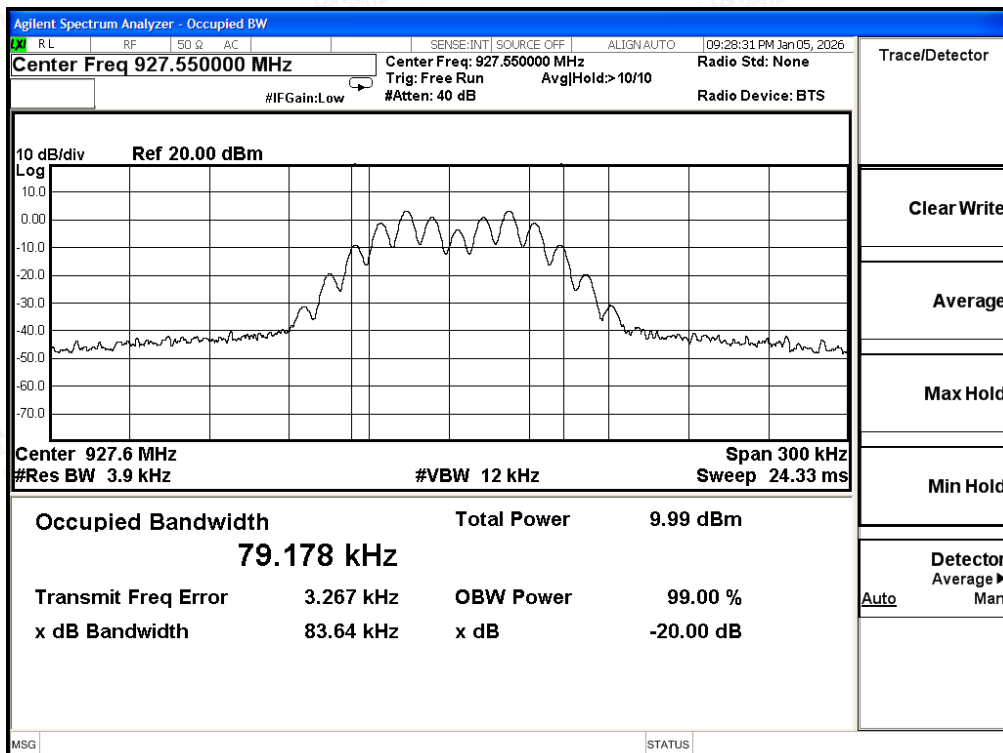
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Ant1_914.85



Ant1_927.55



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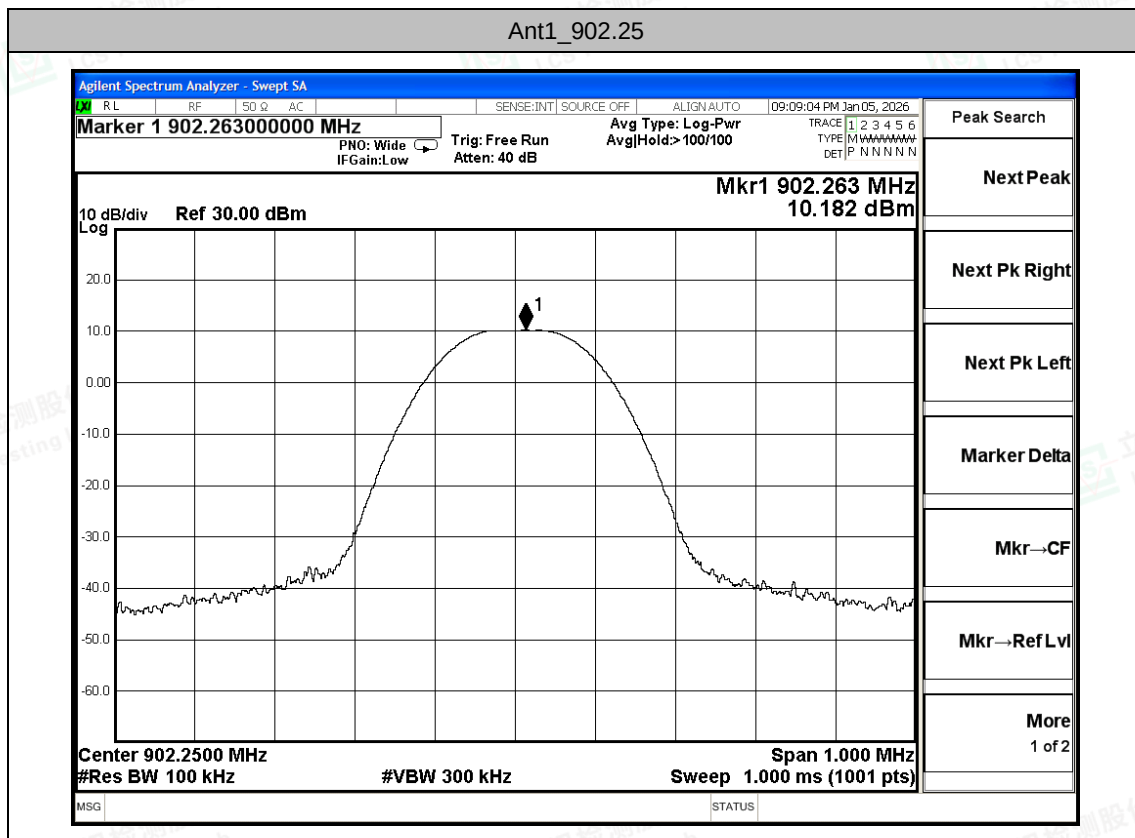


A.2 Maximum Peak Conducted Output Power

Test Result Peak

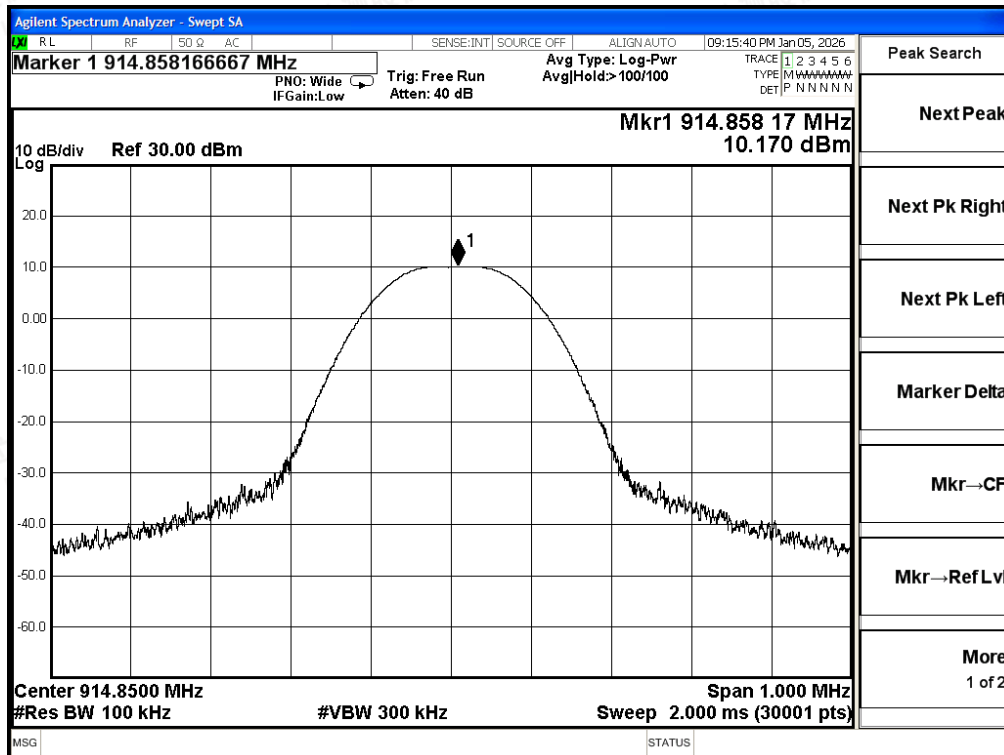
Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Ant1	902.25	10.18	≤30	PASS
	914.85	10.17	≤30	PASS
	927.55	9.78	≤30	PASS

Test Graphs

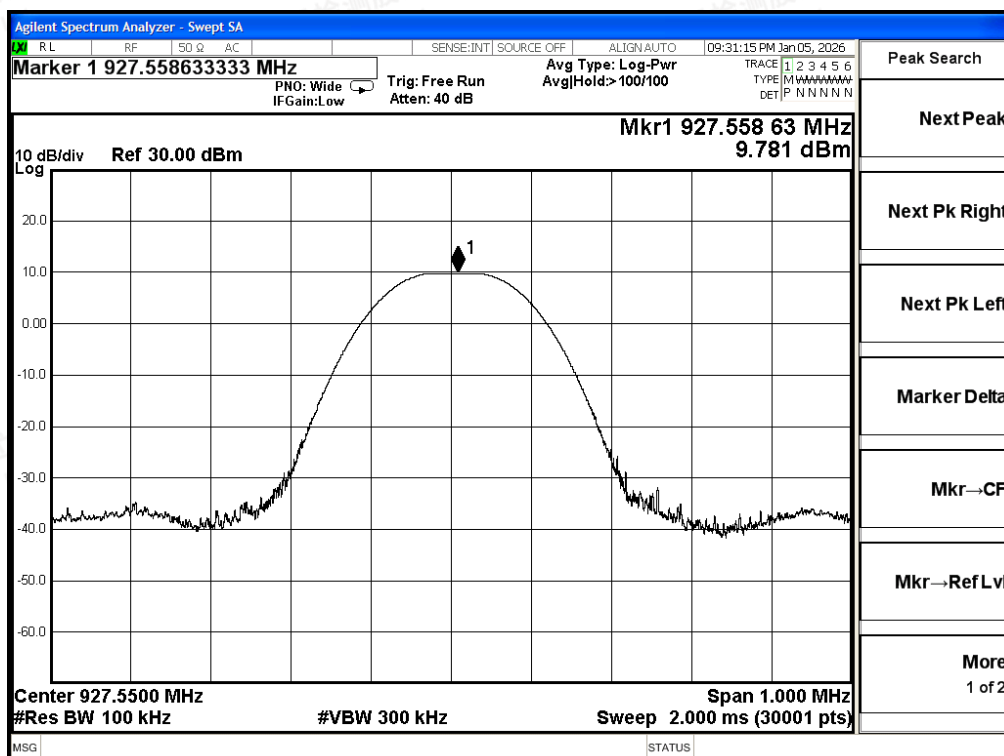




Ant1_914.85



Ant1_927.55



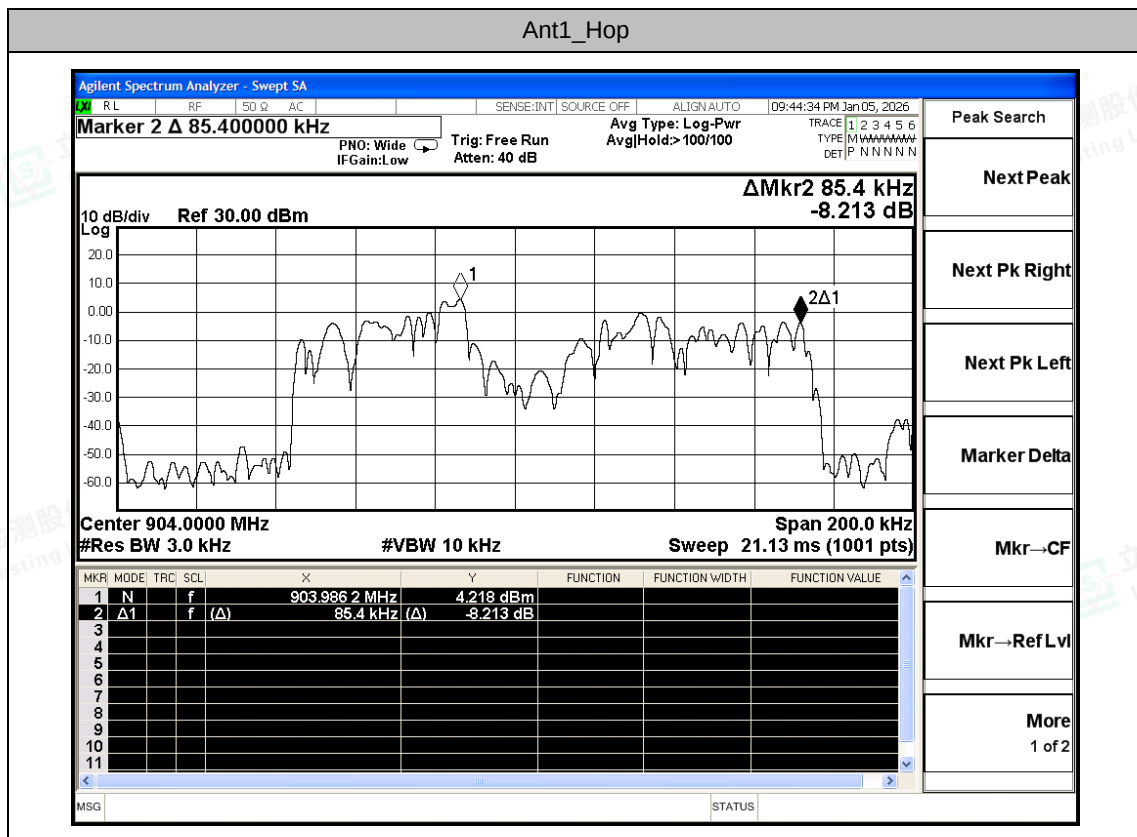


A.3 Carrier frequency separation

Test Result

Antenna	Channel[MHz]	Result[kHz]	Limit[kHz]	Verdict
Ant1	Hop	85.4	83.61	PASS

Test Graphs





A.4 Time of occupancy

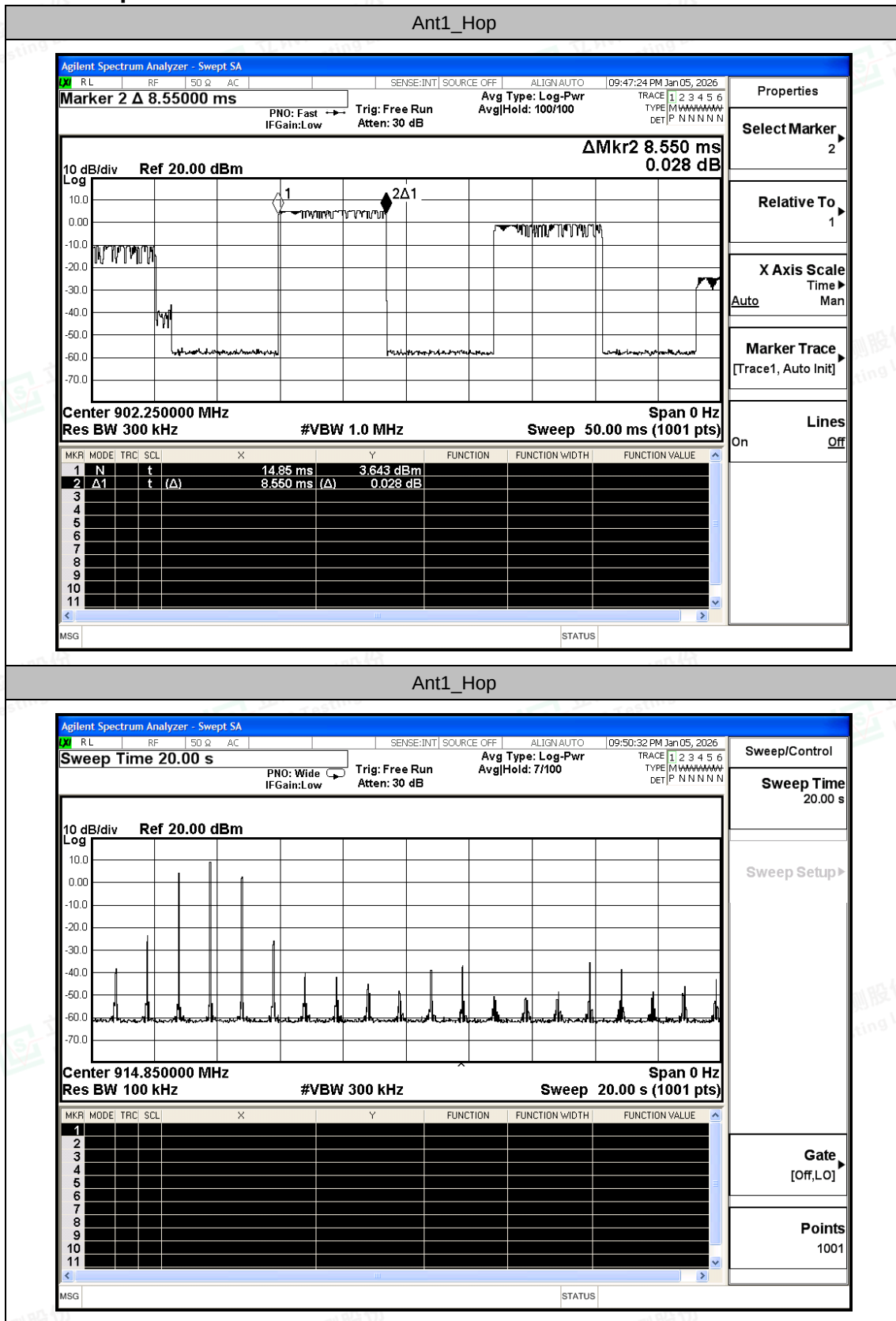
Test Result

Antenna	Channel[MHz]	Burst Width[ms]	Total Hops[Num]	Result[ms]	Limit[ms]	Verdict
Ant1	Hop	8.55	3	25.65	<=400	PASS





Test Graphs



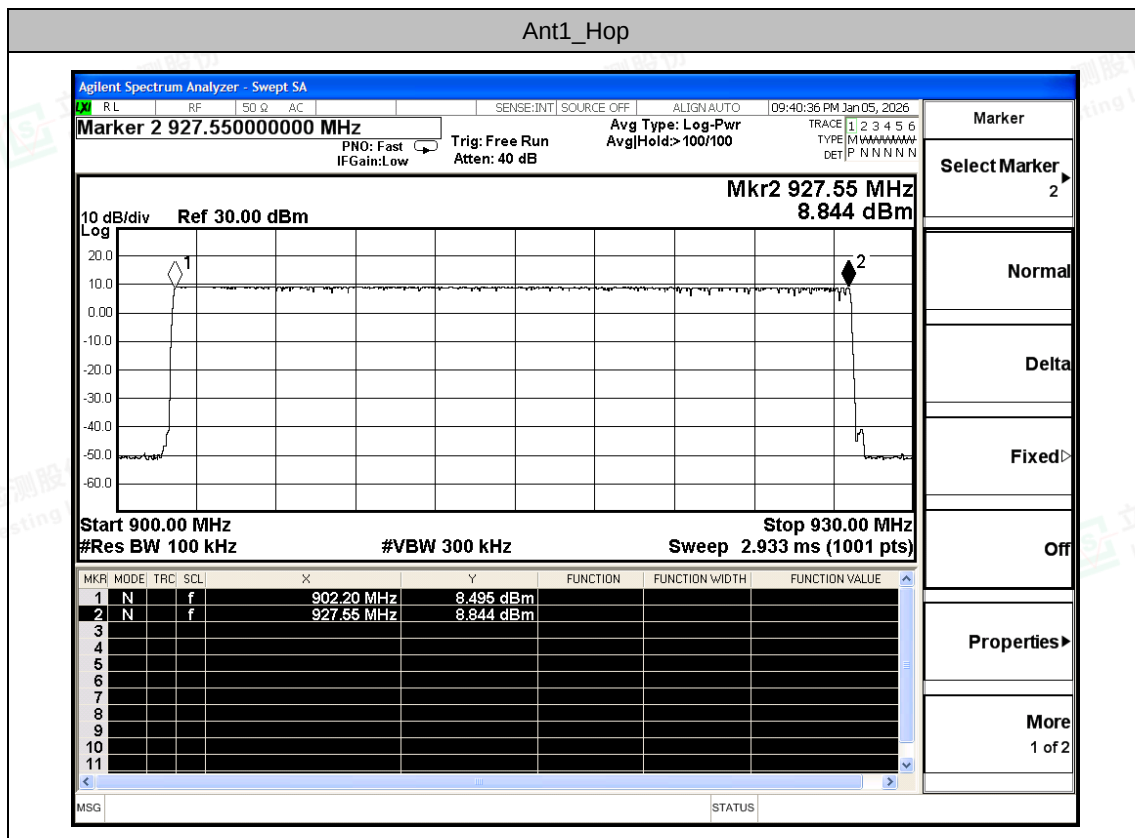


A.5 Number of hopping channels

Test Result

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

Test Graphs



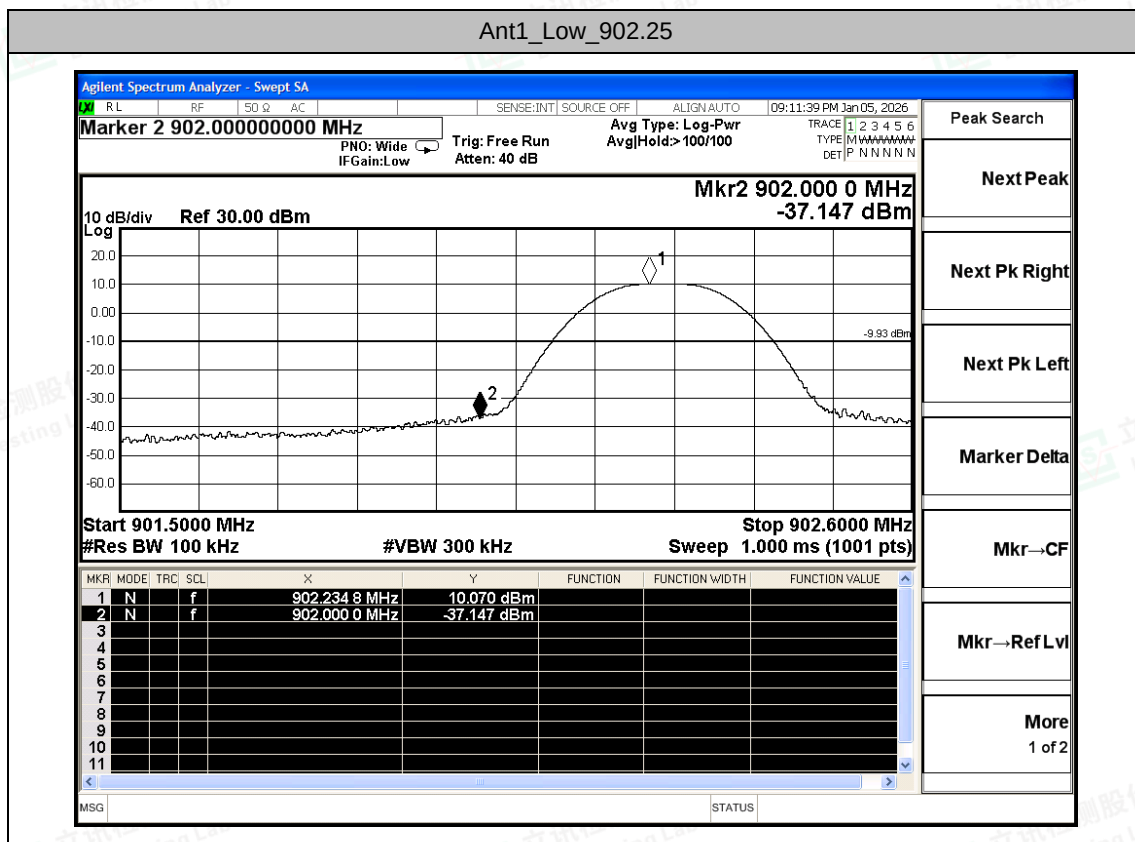


A.6 Band edge measurements

Test Result

Antenna	Ch Name	Channel[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
Ant1	Low	902.25	9.93	-37.147	<=-10.07	PASS
	High	927.55	11.12	-37.638	<=-8.88	PASS
	Low	Hop_902.25	10.13	-43.892	<=-9.87	PASS
	High	Hop_927.55	10.41	-40.272	<=-9.59	PASS

Test Graphs



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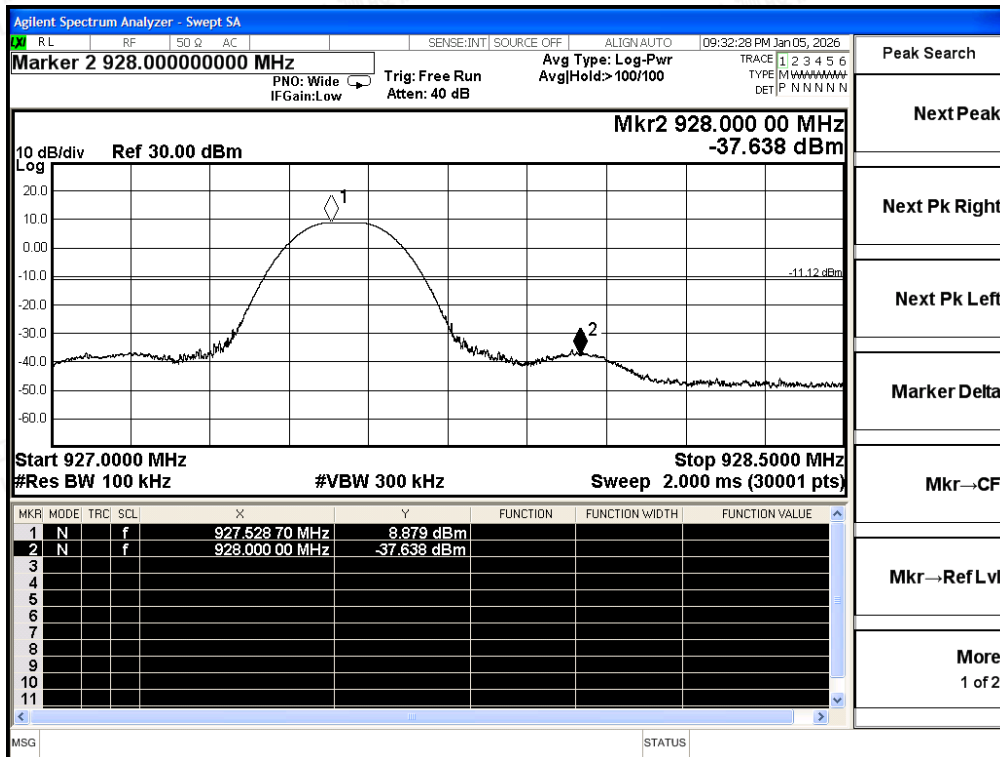
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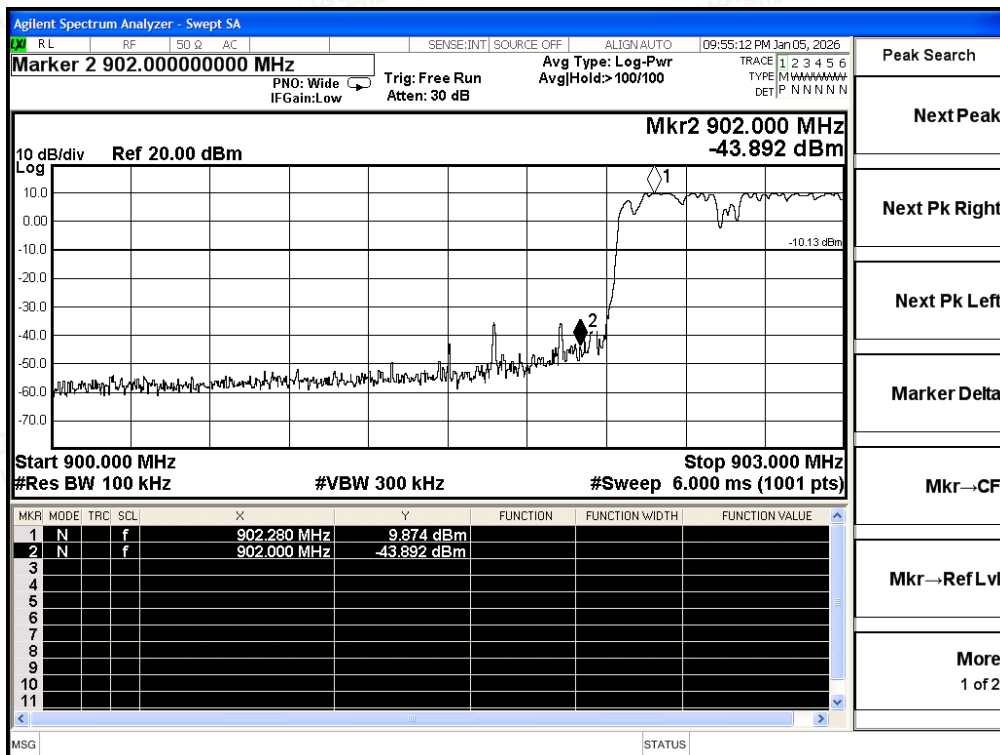
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Ant1_High_927.55



Ant1_Low_Hop_902.25



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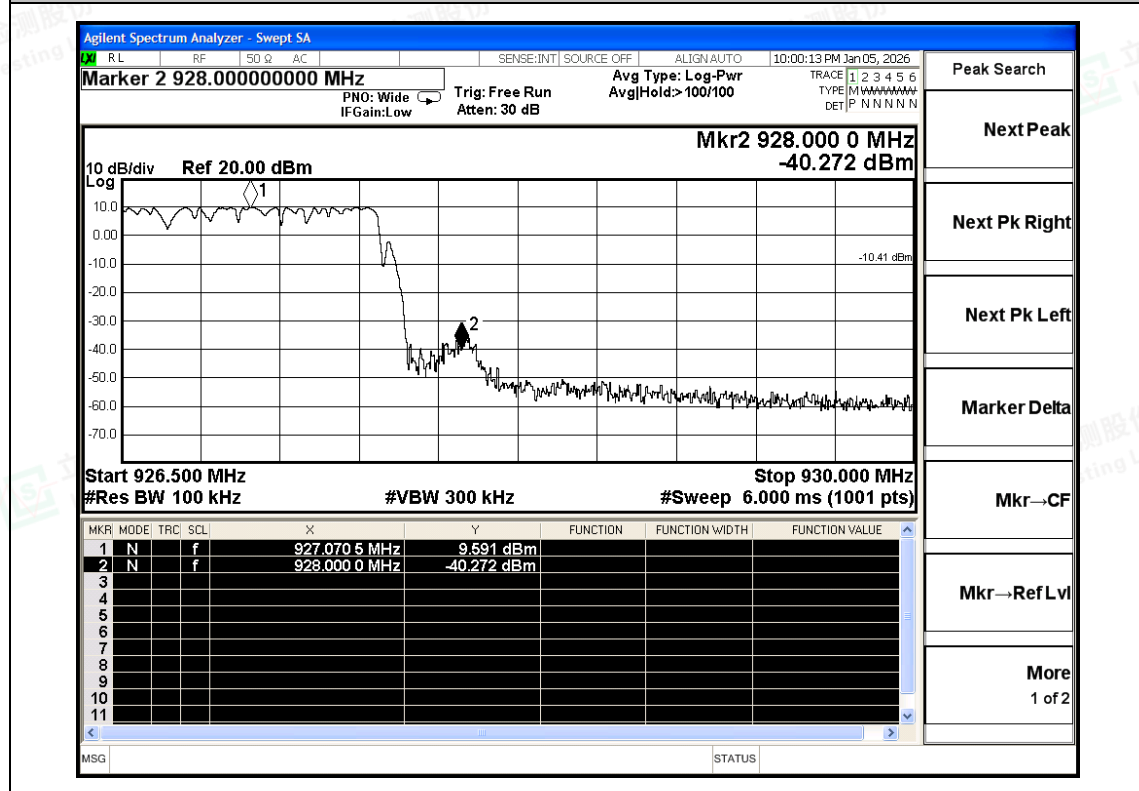
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Ant1_High_Hop_927.55



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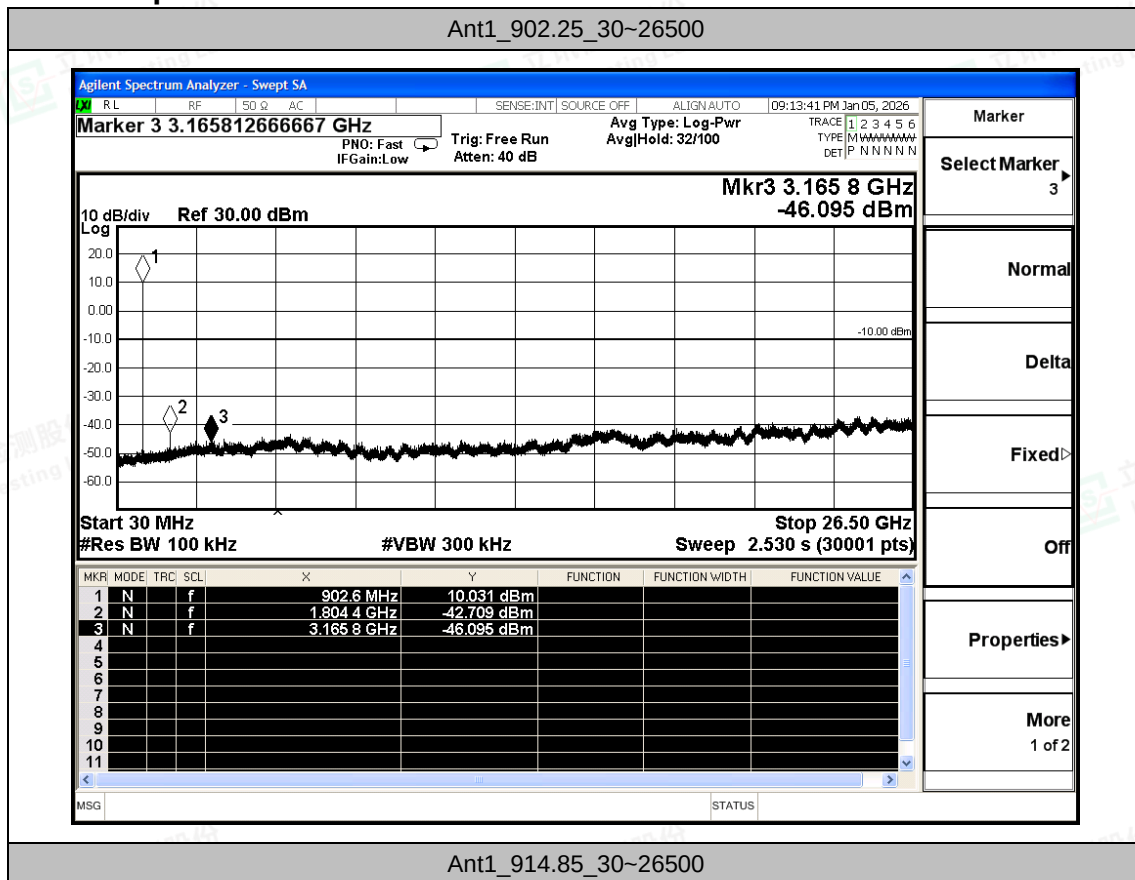


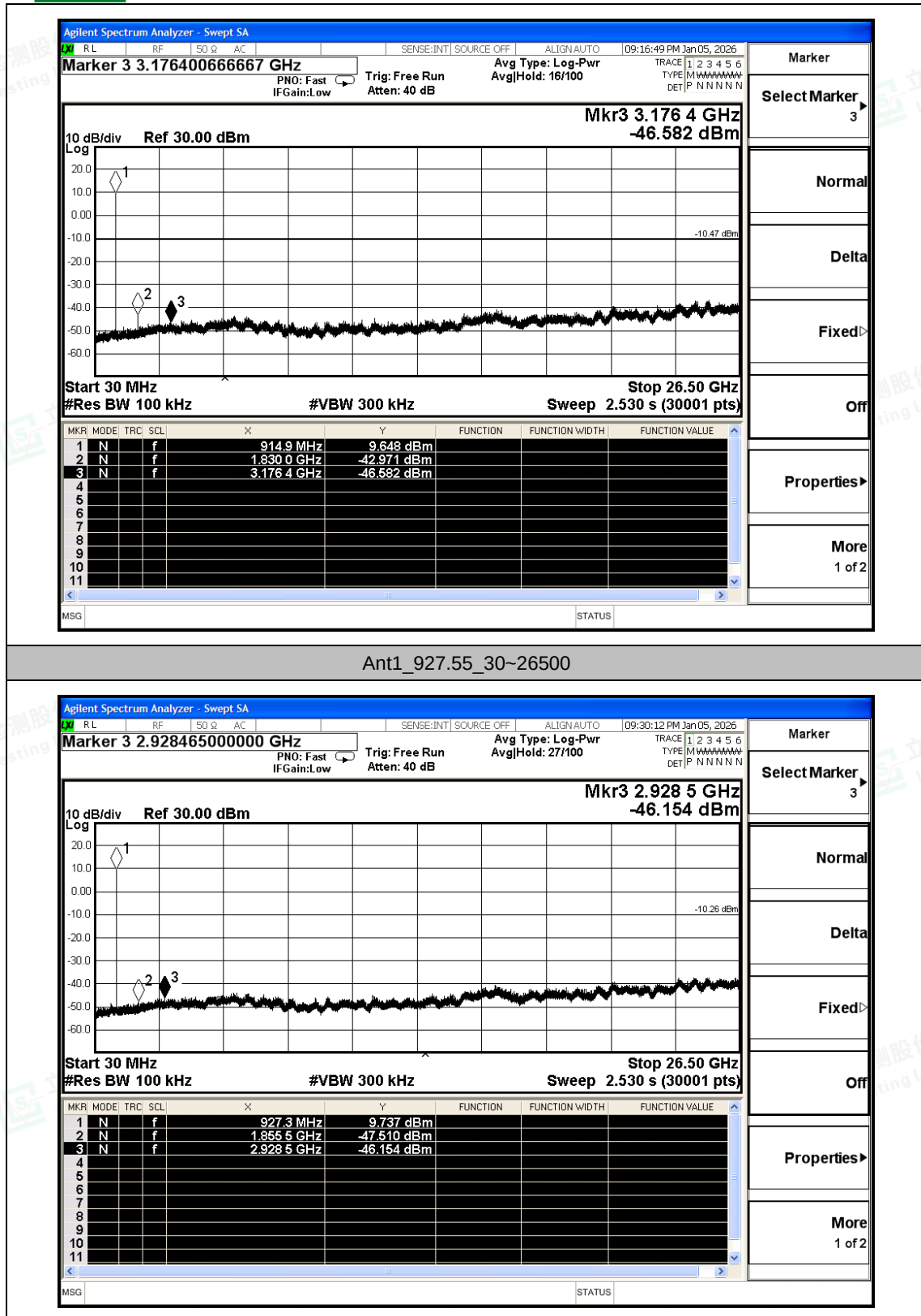
A.7 Conducted Spurious Emission

Test Result

Antenna	Channel[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
Ant1	902.25	30~26500	10.00	-46.095	<=-10.03	PASS
	914.85	30~26500	10.47	-46.582	<=-9.65	PASS
	927.55	30~26500	10.26	-46.154	<=-9.74	PASS

Test Graphs





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