



Appendix A

RF Test Data for 900MHz (Conducted Measurement)

Product Name: Hybrid Head Unit/Console

Test Model: X45LTE

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



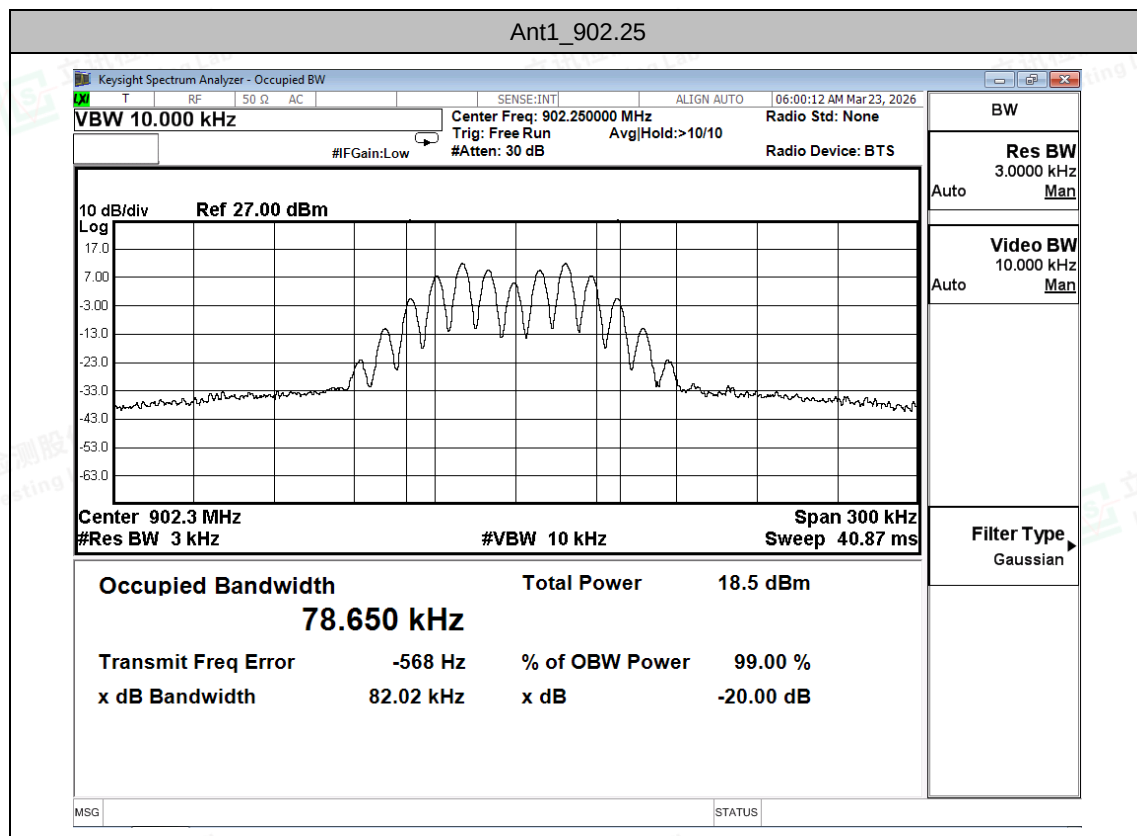


A.1 20dB Emission Bandwidth

Test Result

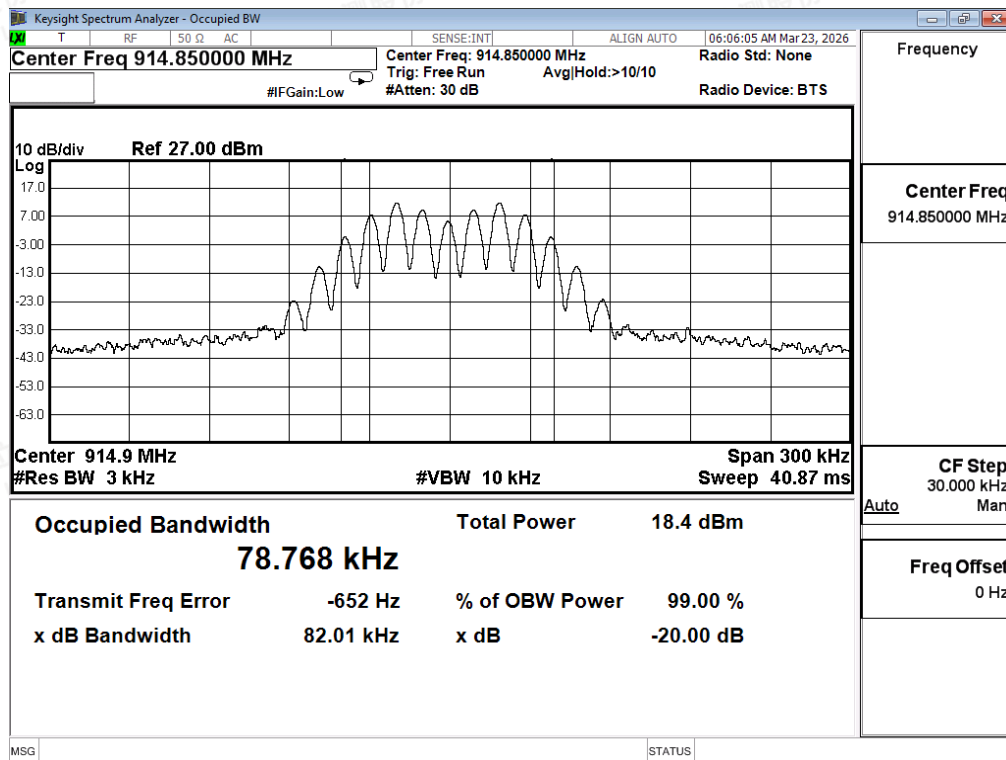
Antenna	Channel[MHz]	20db EBW[kHz]	Limit[MHz]	Verdict
Ant1	902.25	82.02	---	PASS
	914.85	82.01	---	PASS
	927.55	81.95	---	PASS

Test Graphs

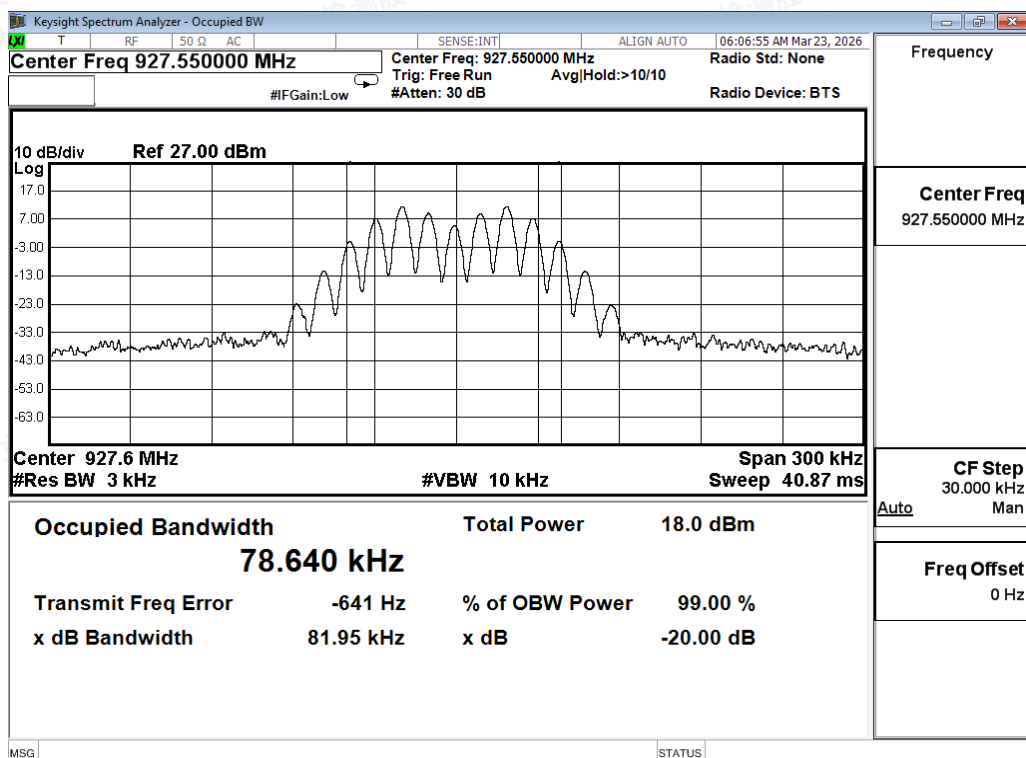




Ant1_914.85



Ant1_927.55

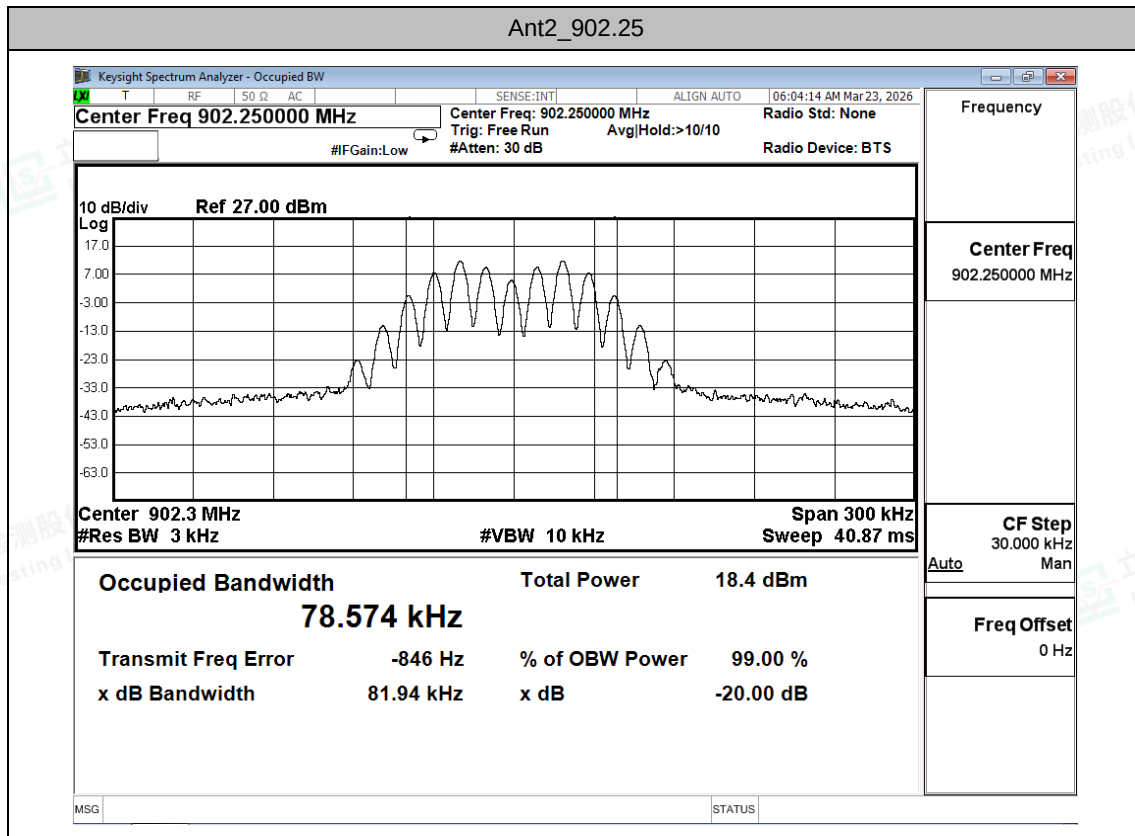




Test Result

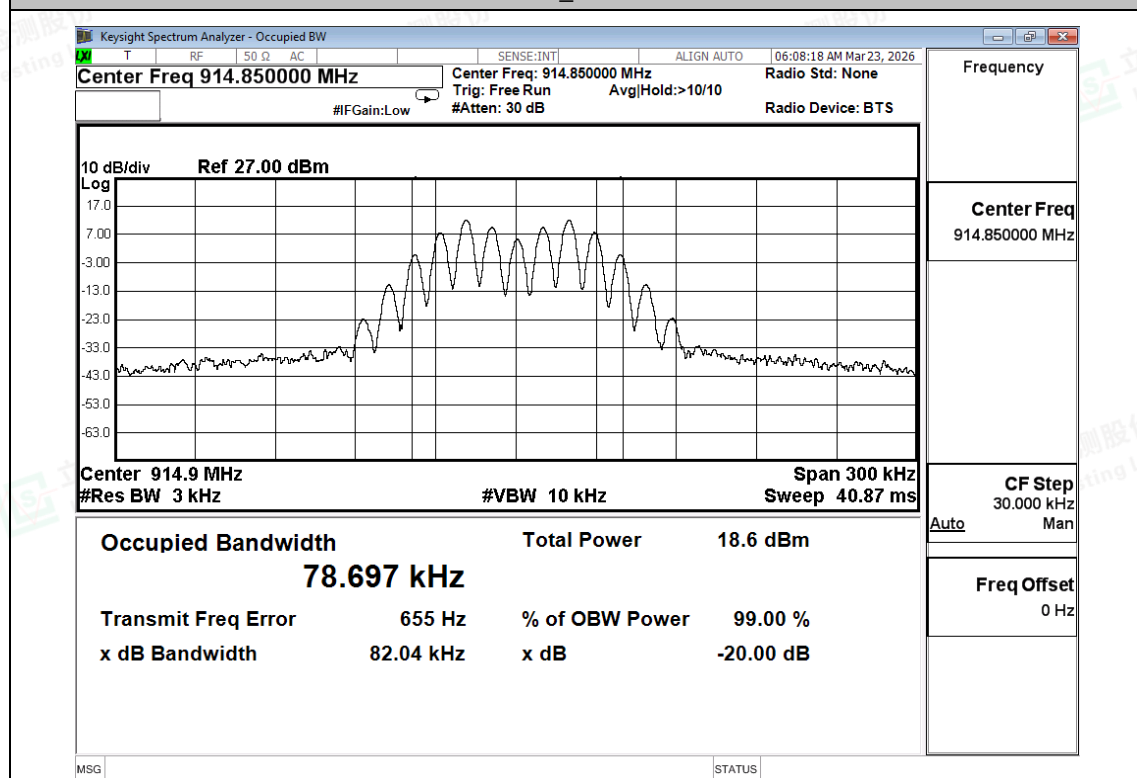
Antenna	Channel[MHz]	20db EBW[kHz]	Limit[MHz]	Verdict
Ant2	902.25	81.94	---	PASS
	914.85	82.04	---	PASS
	927.55	82.02	---	PASS

Test Graphs

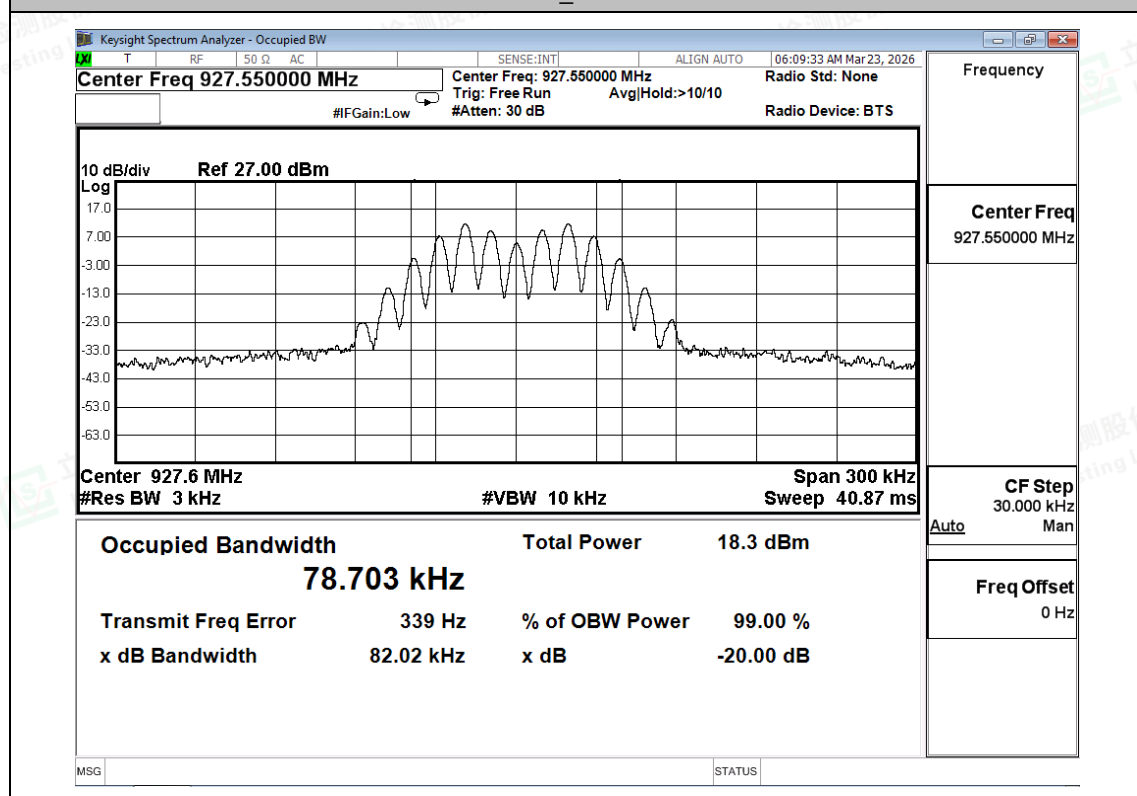




Ant2_914.85



Ant2_927.55



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A.2 Maximum Peak Conducted Output Power and e.i.r.p.

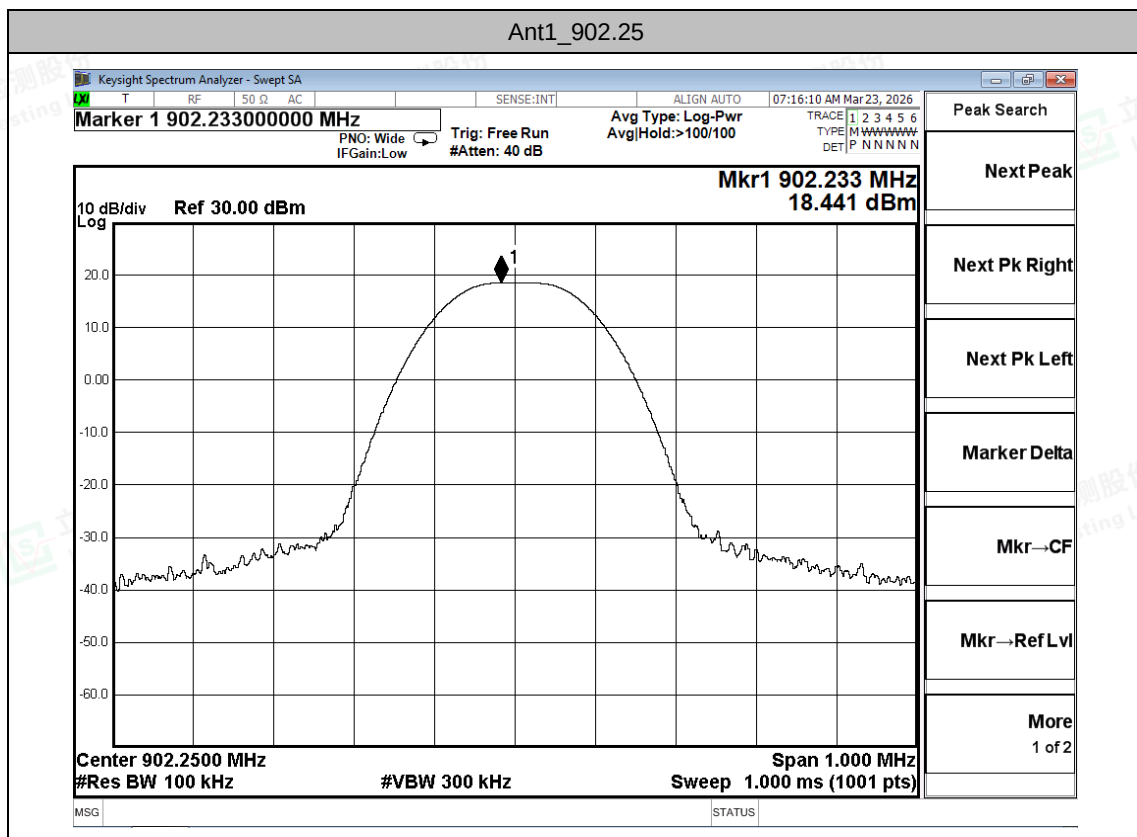
Test Result Peak

Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Ant1	902.25	18.441	≤30	PASS
	914.85	18.305	≤30	PASS
	927.55	17.962	≤30	PASS

EIRP

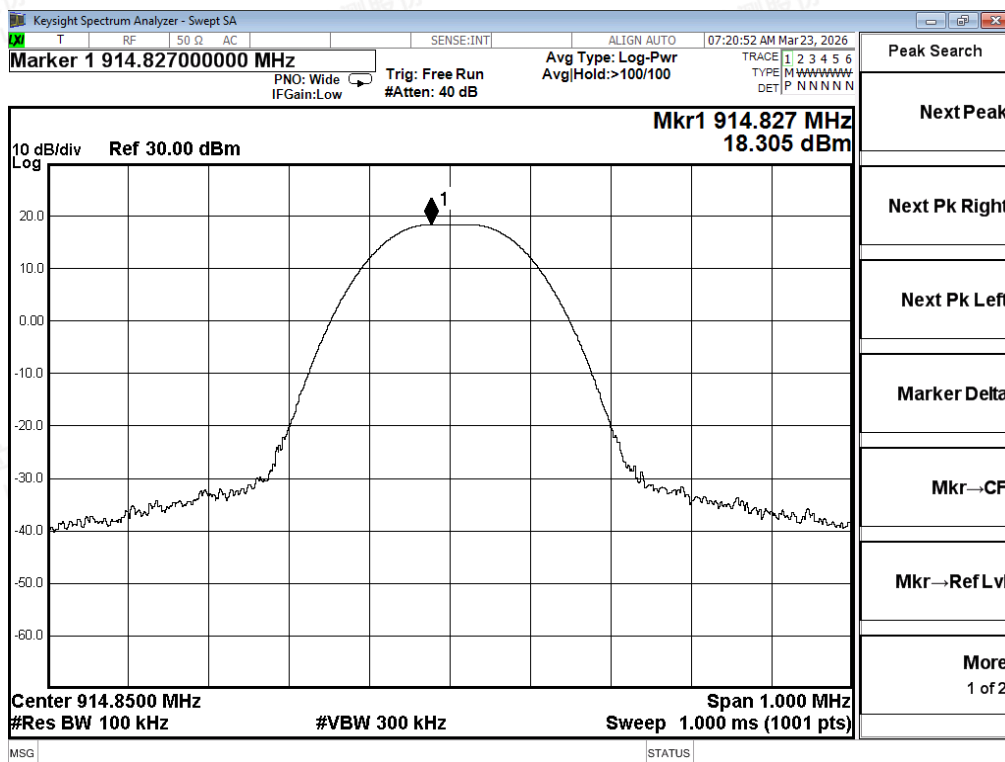
Antenna	Frequency (MHz)	Conducted Power (dBm)	Antenna gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
Ant1	902.25	18.441	2.0	20.441	36	Pass
Ant1	914.85	18.305	2.0	20.305	36	Pass
Ant1	927.55	17.962	2.0	19.962	36	Pass

Test Graphs

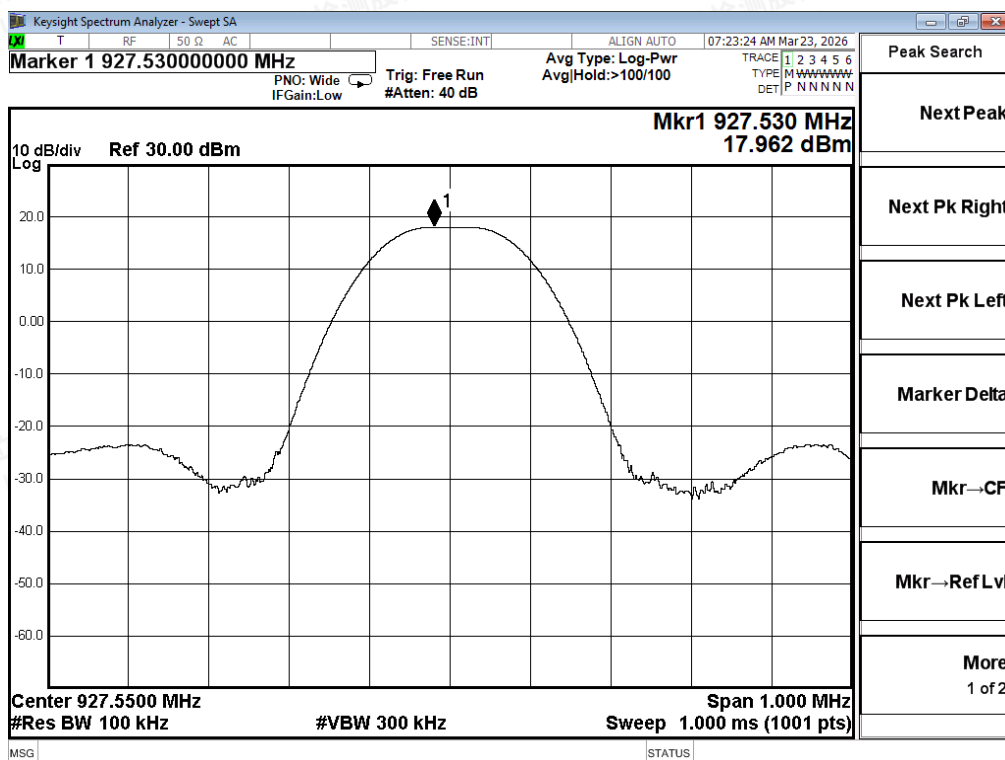




Ant1_914.85



Ant1_927.55



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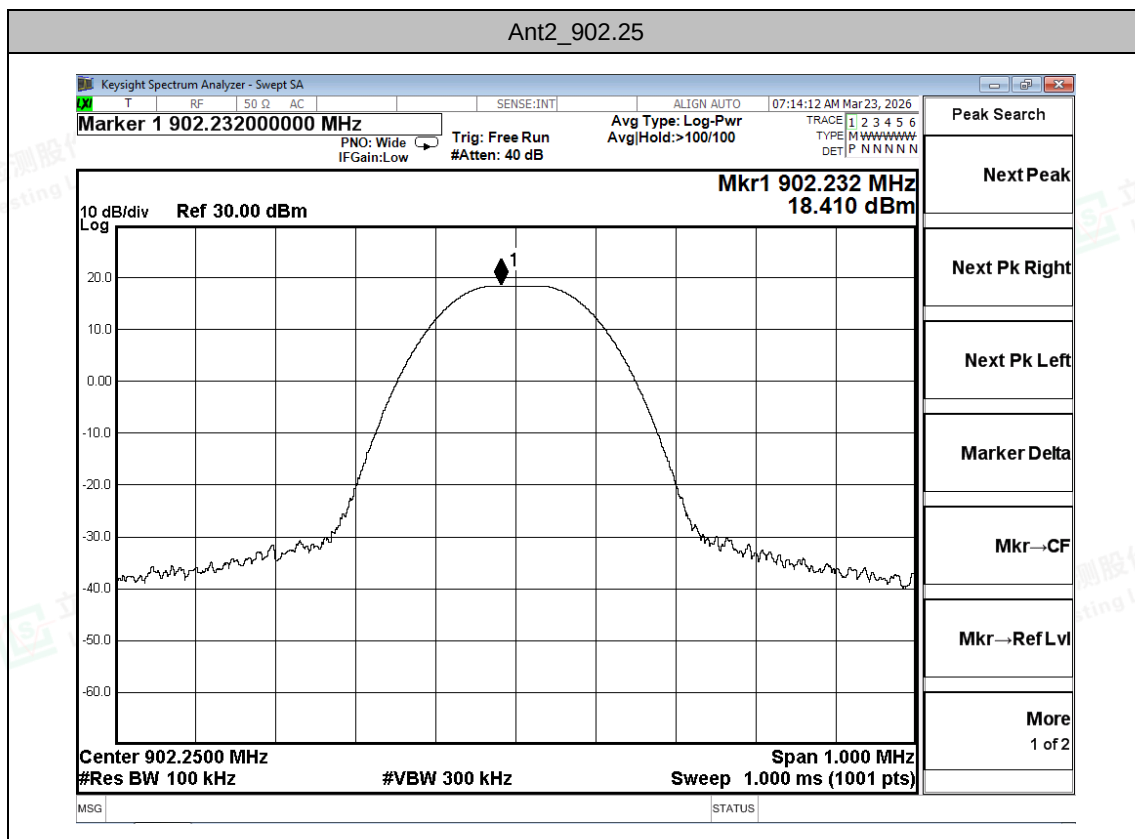
Test Result Peak

Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Ant2	902.25	18.410	≤30	PASS
	914.85	18.400	≤30	PASS
	927.55	18.116	≤30	PASS

EIRP

Antenna	Frequency (MHz)	Conducted Power (dBm)	Antenna gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
Ant2	902.25	18.410	2.0	20.410	36	Pass
Ant2	914.85	18.400	2.0	20.400	36	Pass
Ant2	927.55	18.116	2.0	20.116	36	Pass

Test Graphs



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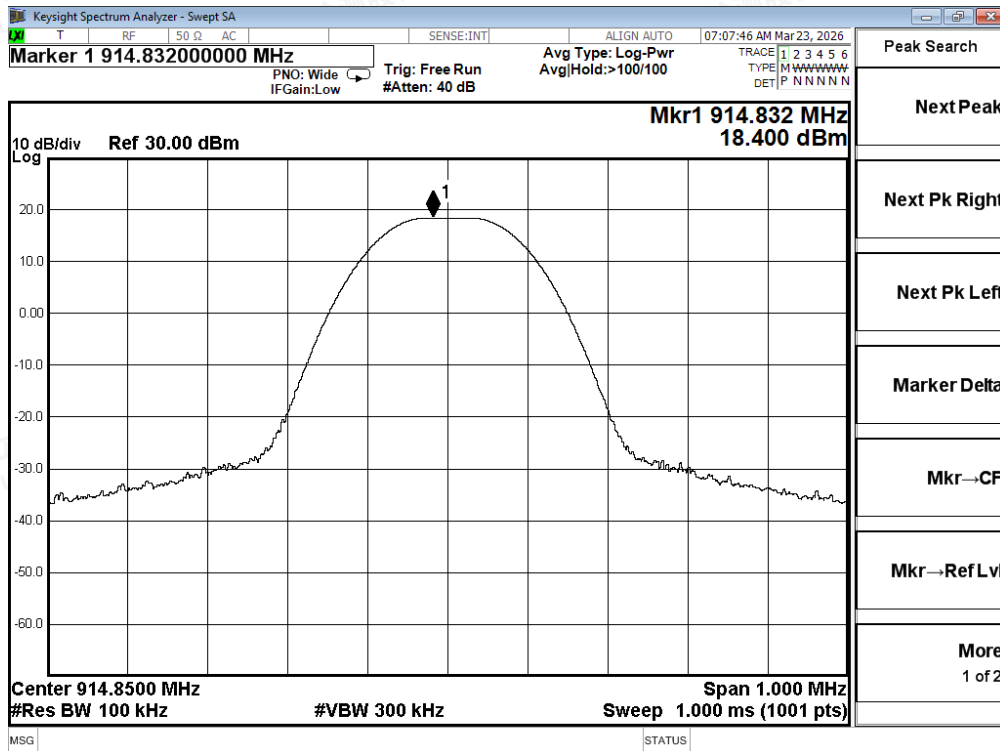
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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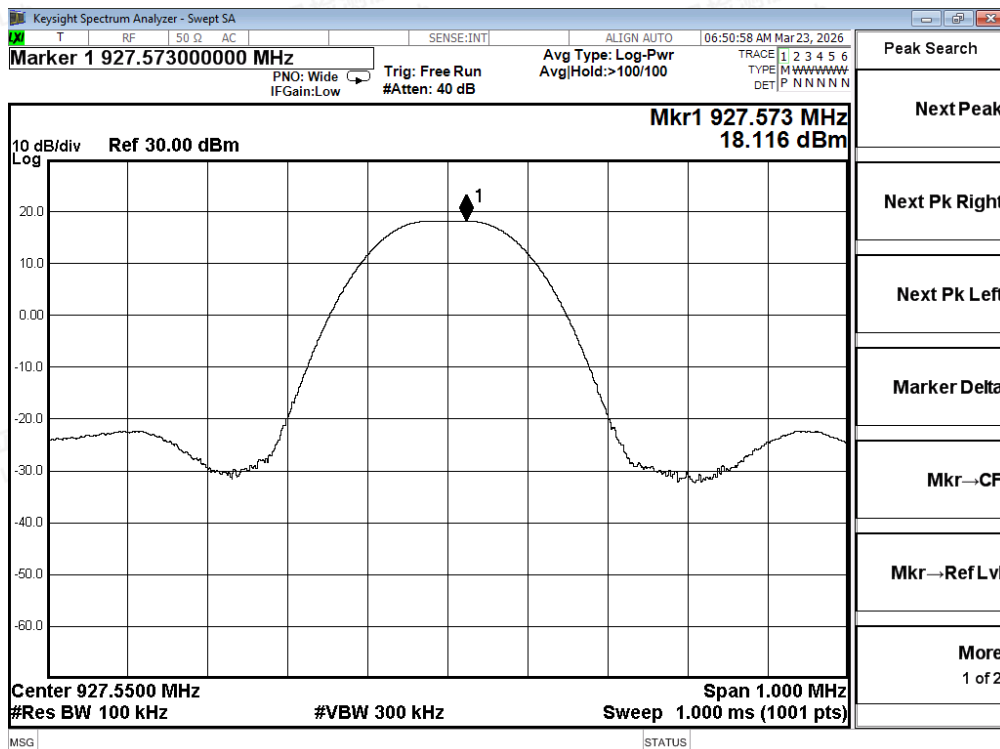
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Ant2_914.85



Ant2_927.55



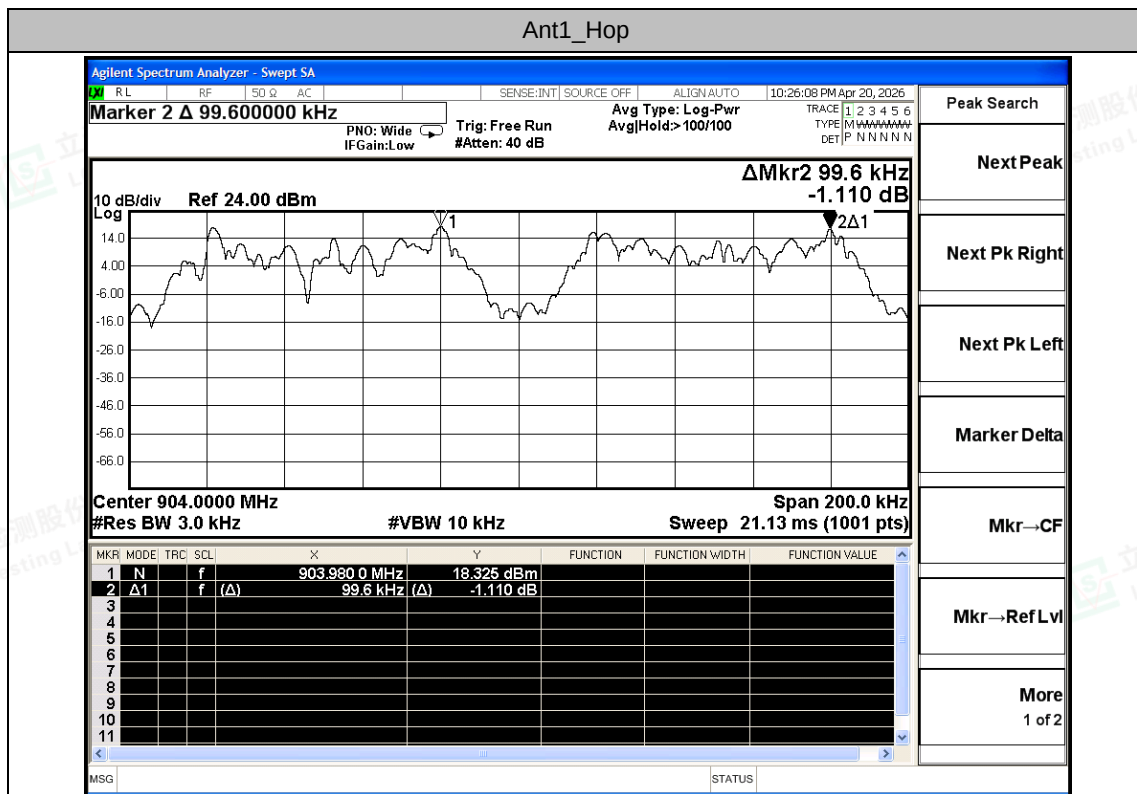


A.3 Carrier frequency separation

Test Result

Antenna	Channel[MHz]	Result[kHz]	Limit[kHz]	Verdict
Ant1	Hop	99.6	82.02	PASS

Test Graphs

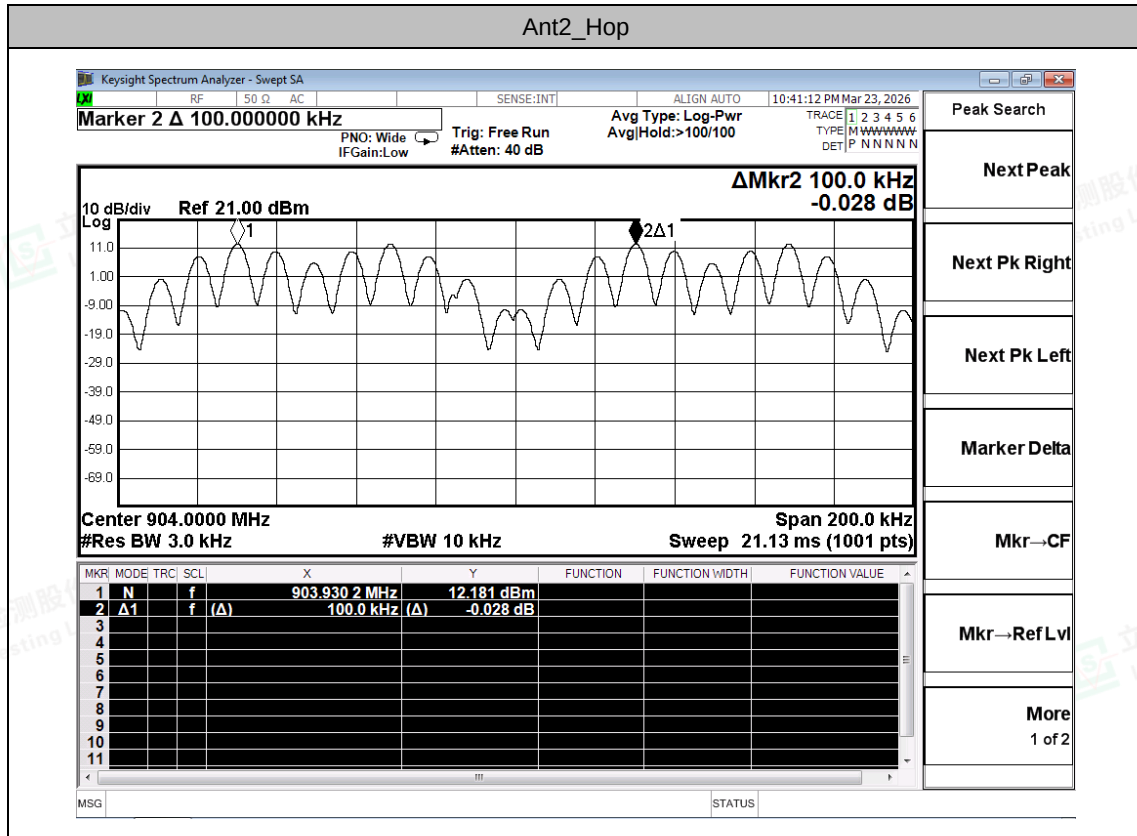




Test Result

Antenna	Channel[MHz]	Result[kHz]	Limit[kHz]	Verdict
Ant2	Hop	100.0	82.04	PASS

Test Graphs



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A.4 Time of occupancy

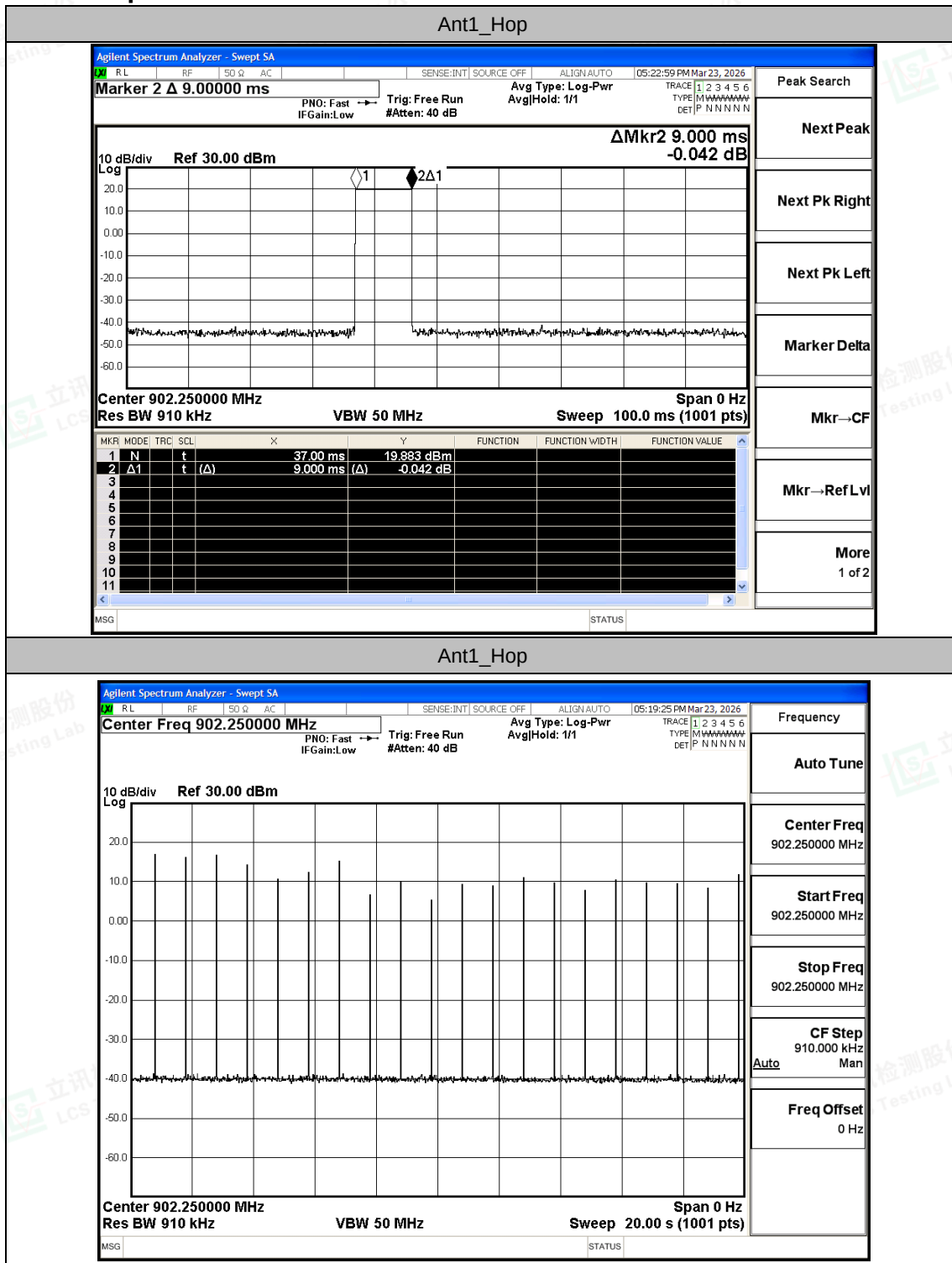
Test Result

Antenna	Channel[MHz]	Burst Width[ms]	Total Hops[Num]	Result[ms]	Limit[ms]	Verdict
Ant1	Hop	9	20	180	<=400	PASS





Test Graphs



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Test Result

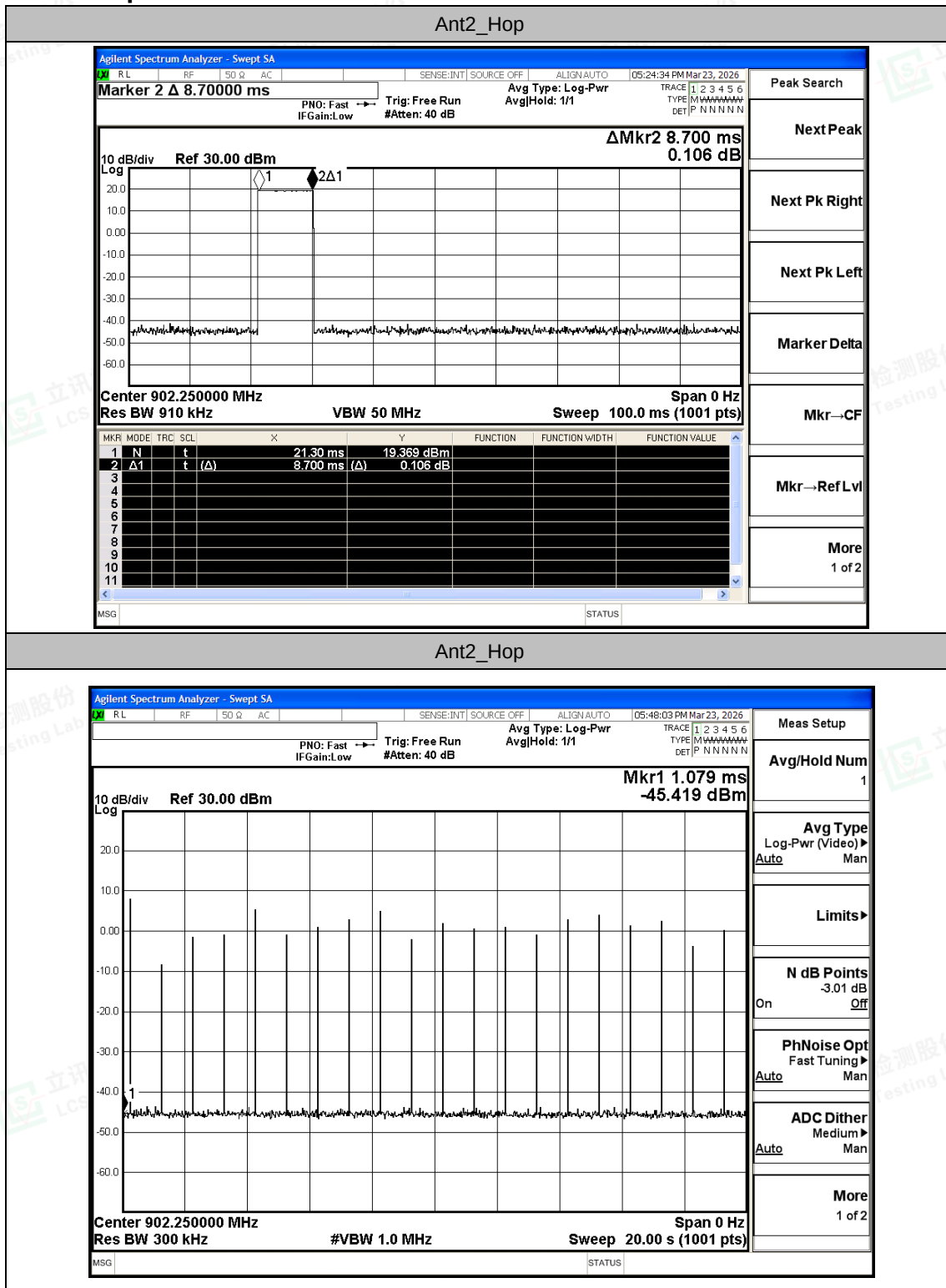
Antenna	Channel[MHz]	Burst Width[ms]	Total Hops[Num]	Result[ms]	Limit[ms]	Verdict
Ant2	Hop	8.70	20	174	<=400	PASS



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Test Graphs



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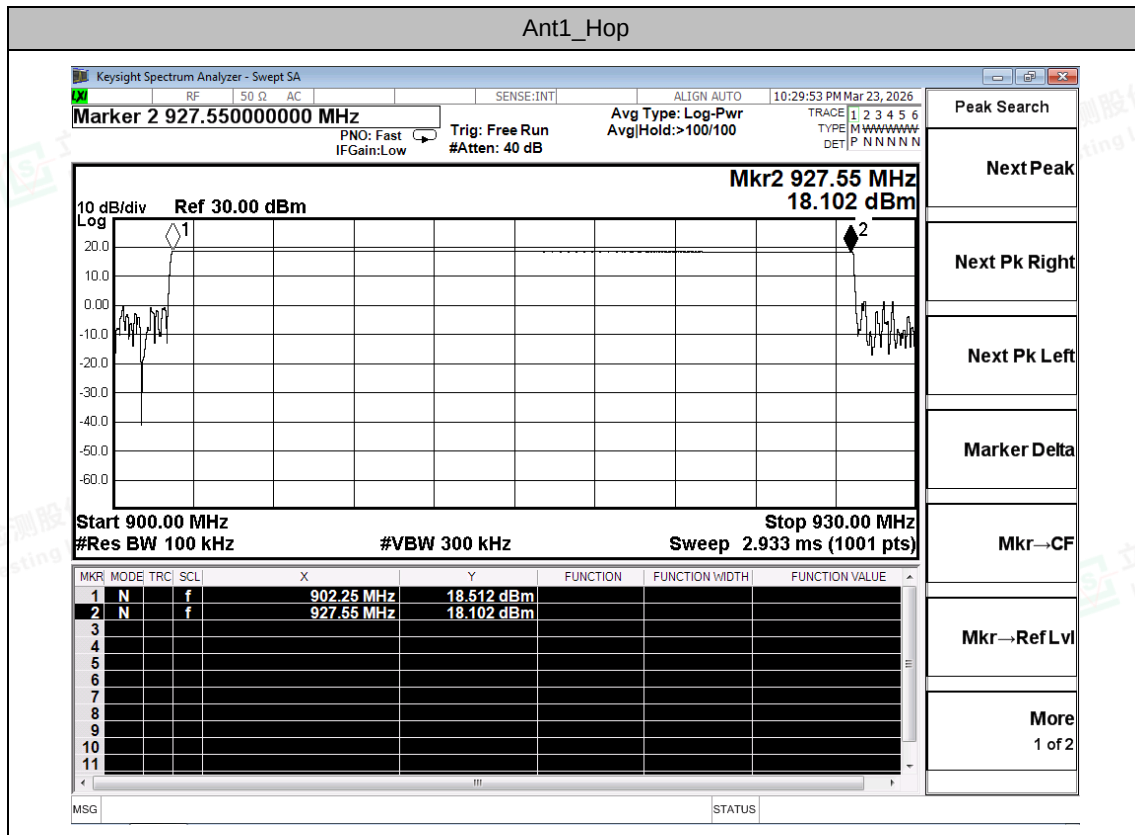


A.5 Number of hopping channels

Test Result

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

Test Graphs



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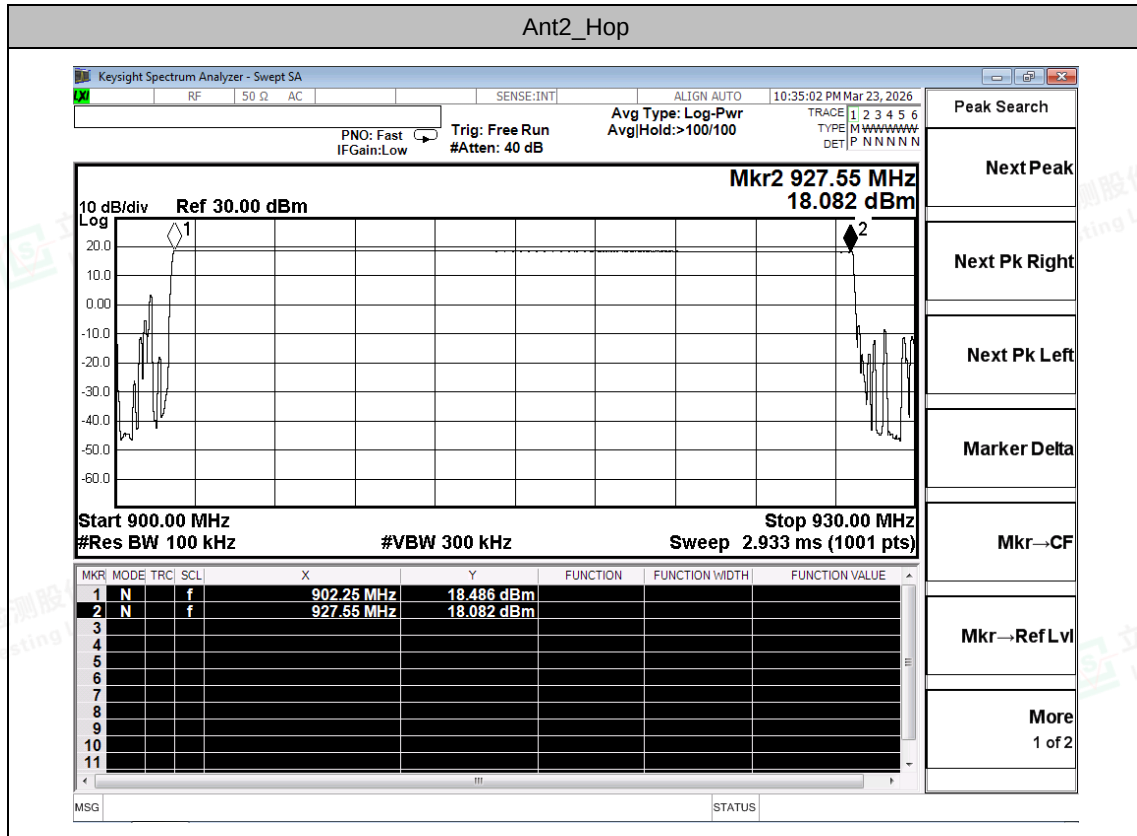
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Test Result

Antenna	Channel	Result[Num]	Limit[Num]	Verdict
Ant2	Hop	254	>=50	PASS

Test Graphs



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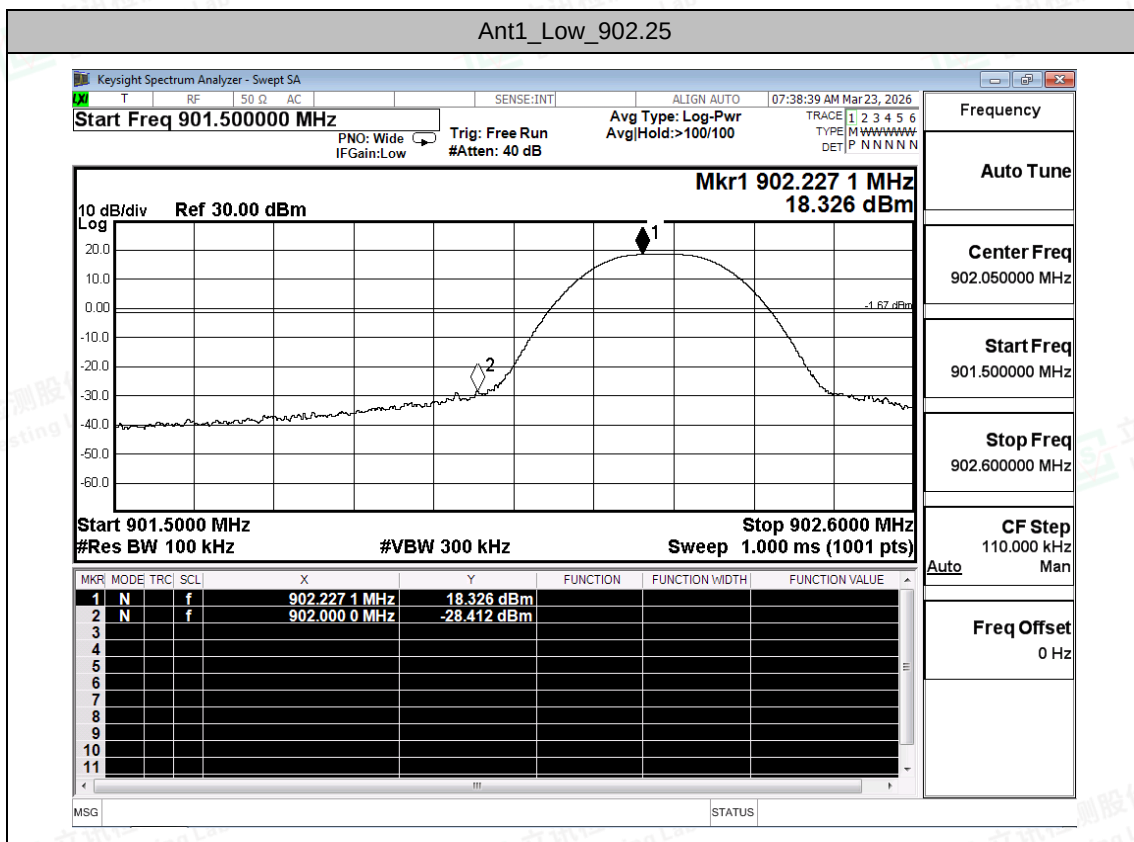
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A.6 Band edge measurements

Test Result

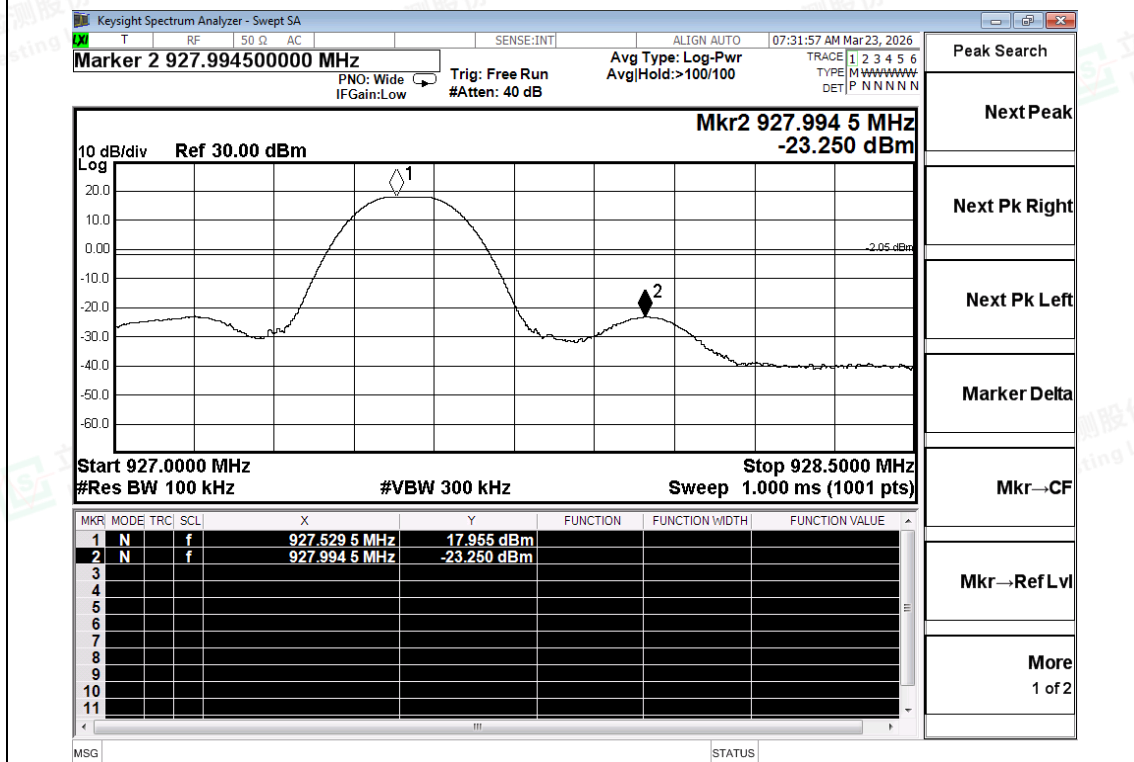
Antenna	Ch Name	Channel[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
Ant1	Low	902.25	18.33	-28.412	<=-1.67	PASS
	High	927.55	17.955	-23.250	<=-2.05	PASS
	Low-Hop	902.25	18.506	-35.774	<=-1.49	PASS
	High-Hop	927.55	18.176	-27.497	<=-1.82	PASS

Test Graphs

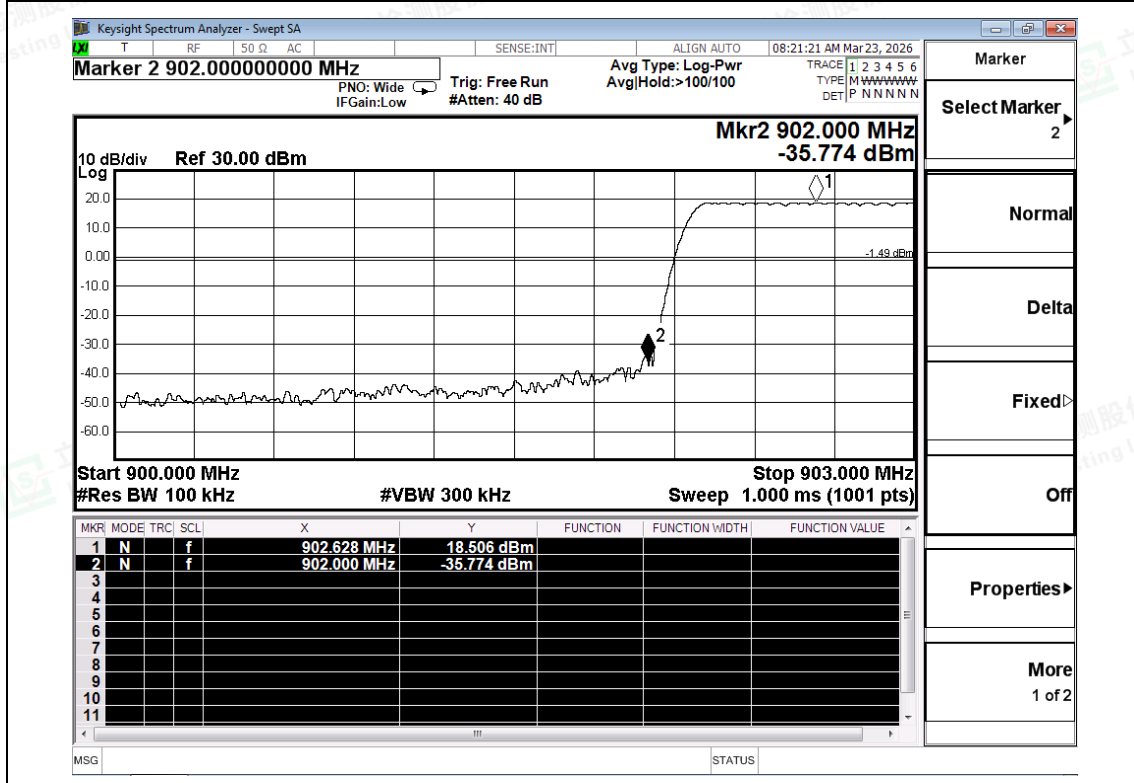




Ant1_High_927.55



Ant1_Low_Hop_902.25

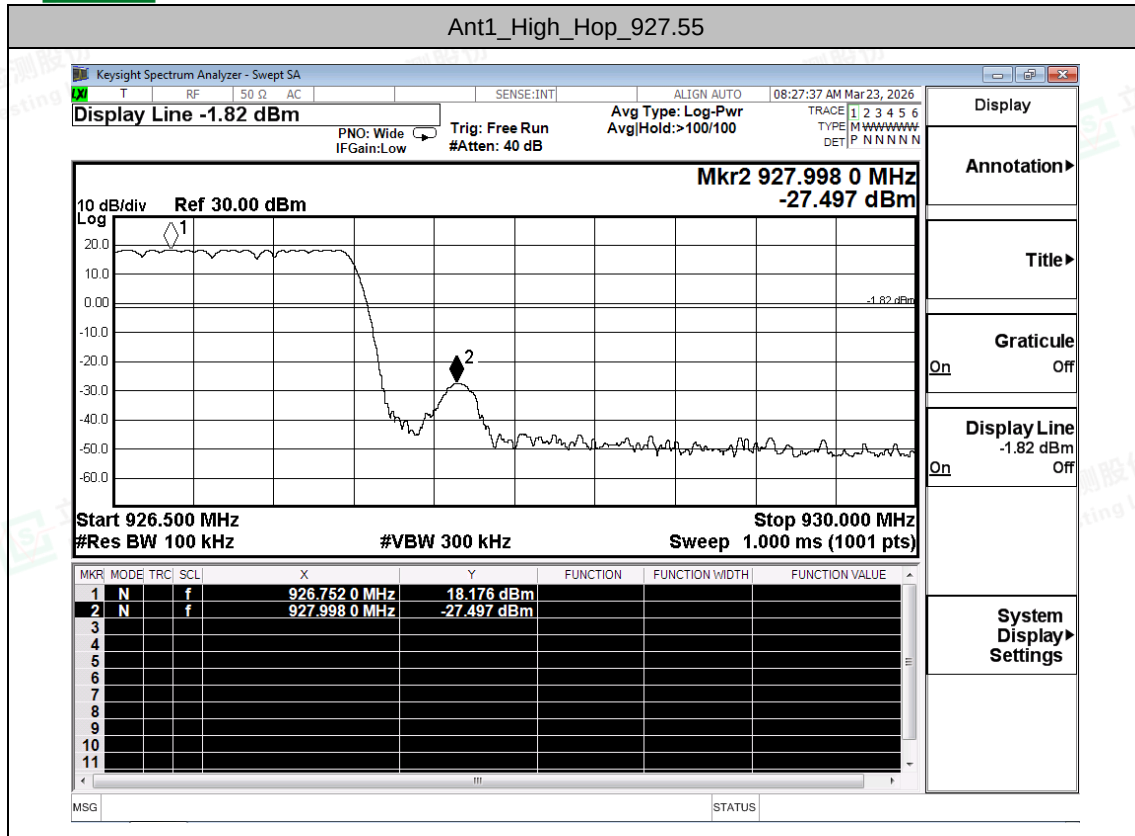


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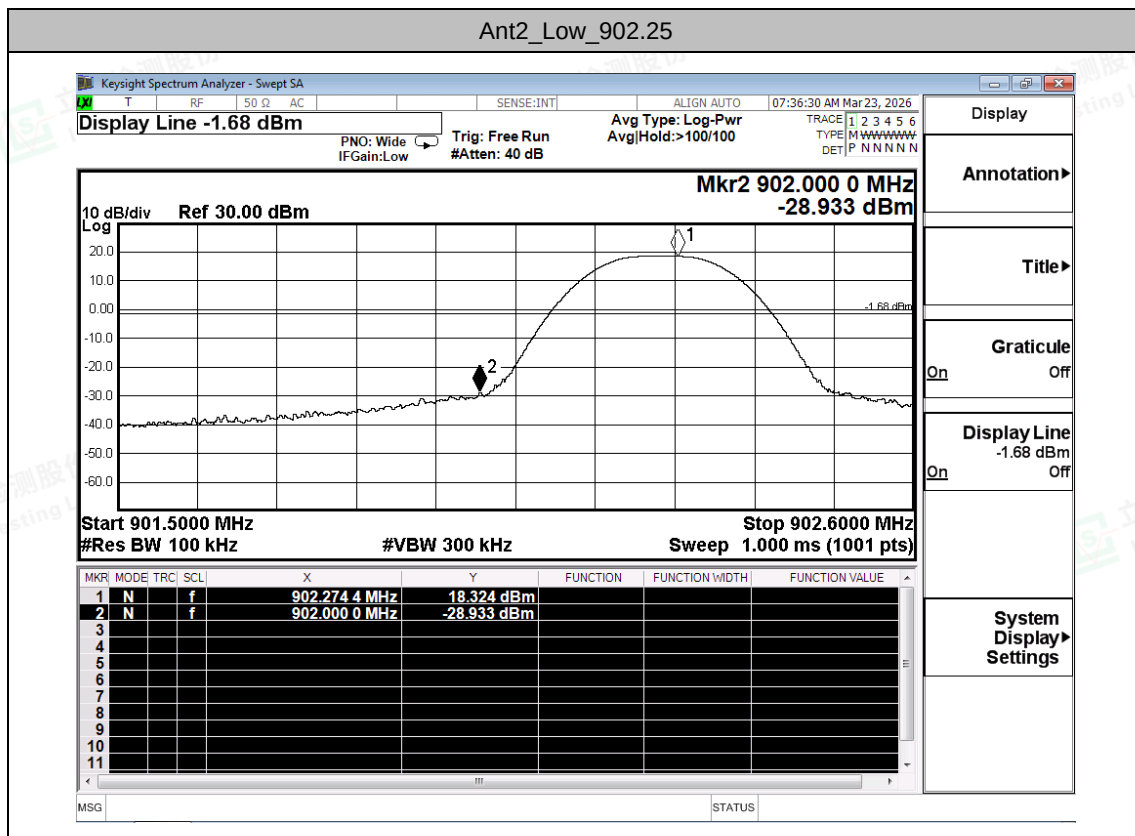




Test Result

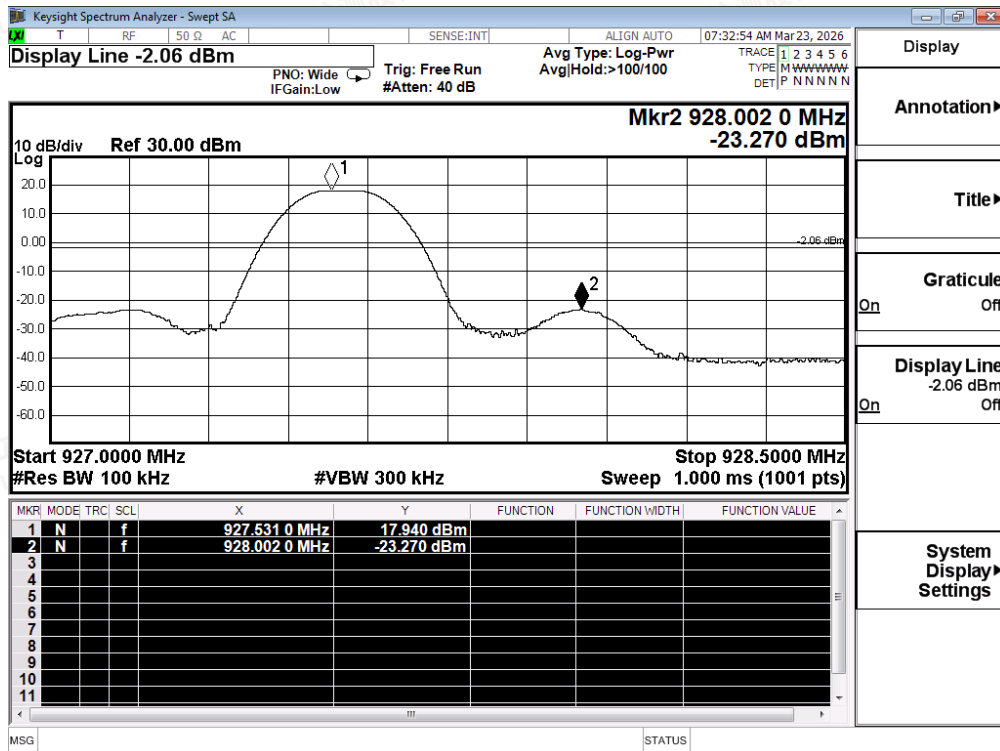
Antenna	Ch Name	Channel[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
Ant2	Low	902.25	18.324	-28.933	<=-1.68	PASS
	High	927.55	17.940	-23.270	<=-2.06	PASS
	Low-Hop	902.25	18.546	-35.774	<=-1.45	PASS
	High-Hop	927.55	18.161	-23.474	<=-1.84	PASS

Test Graphs

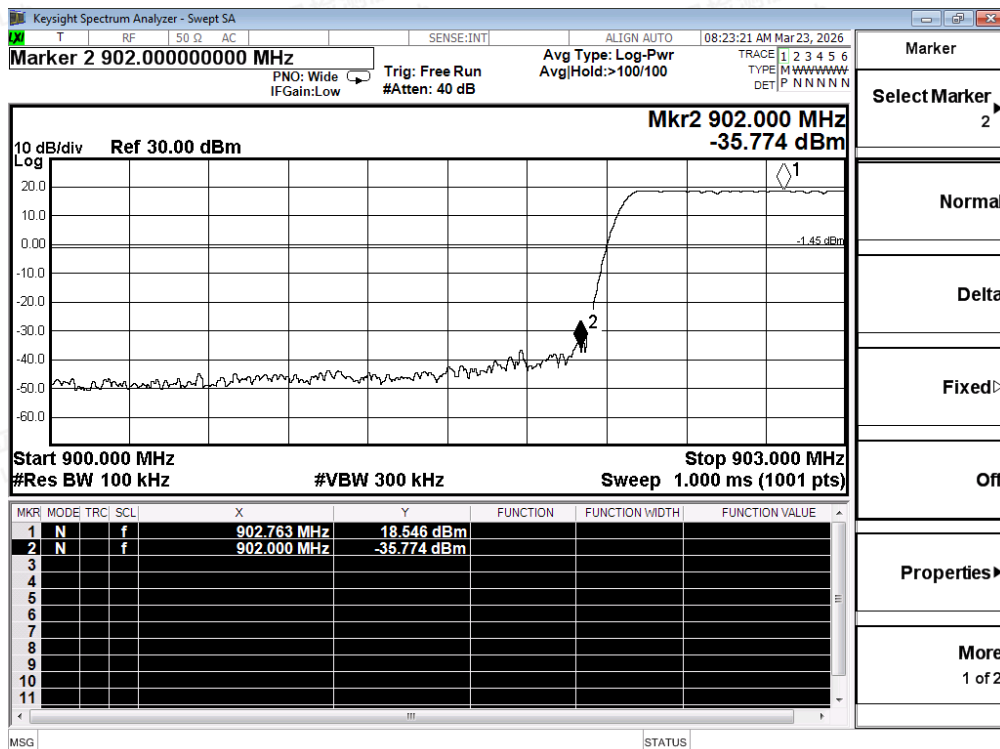




Ant2_High_927.55

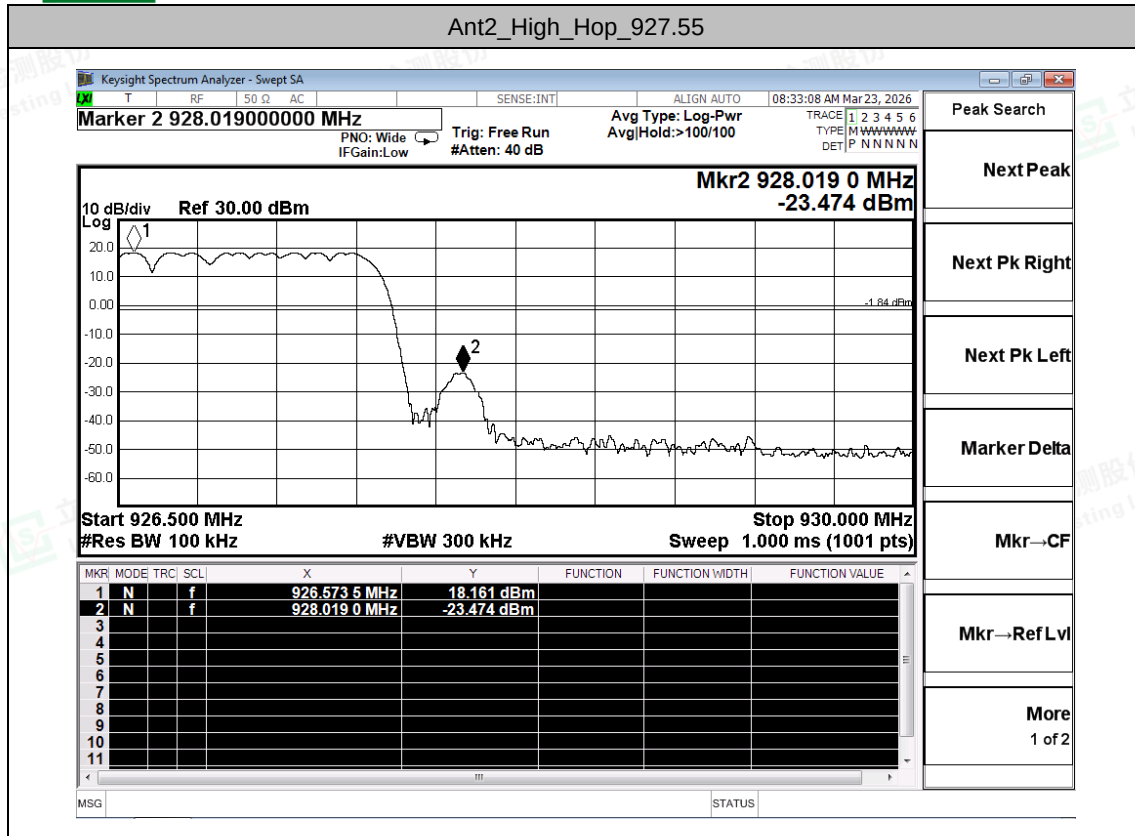


Ant2_Low_Hop_902.25





Ant2_High_Hop_927.55



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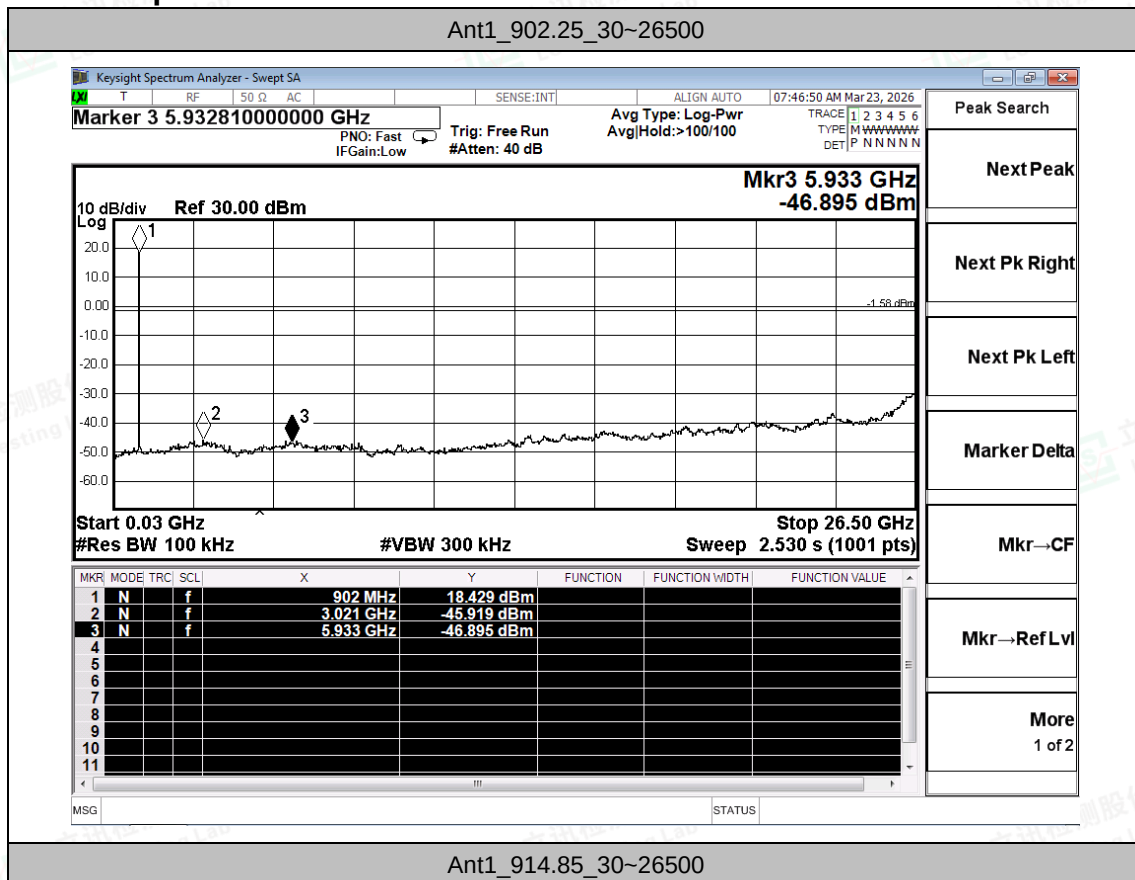


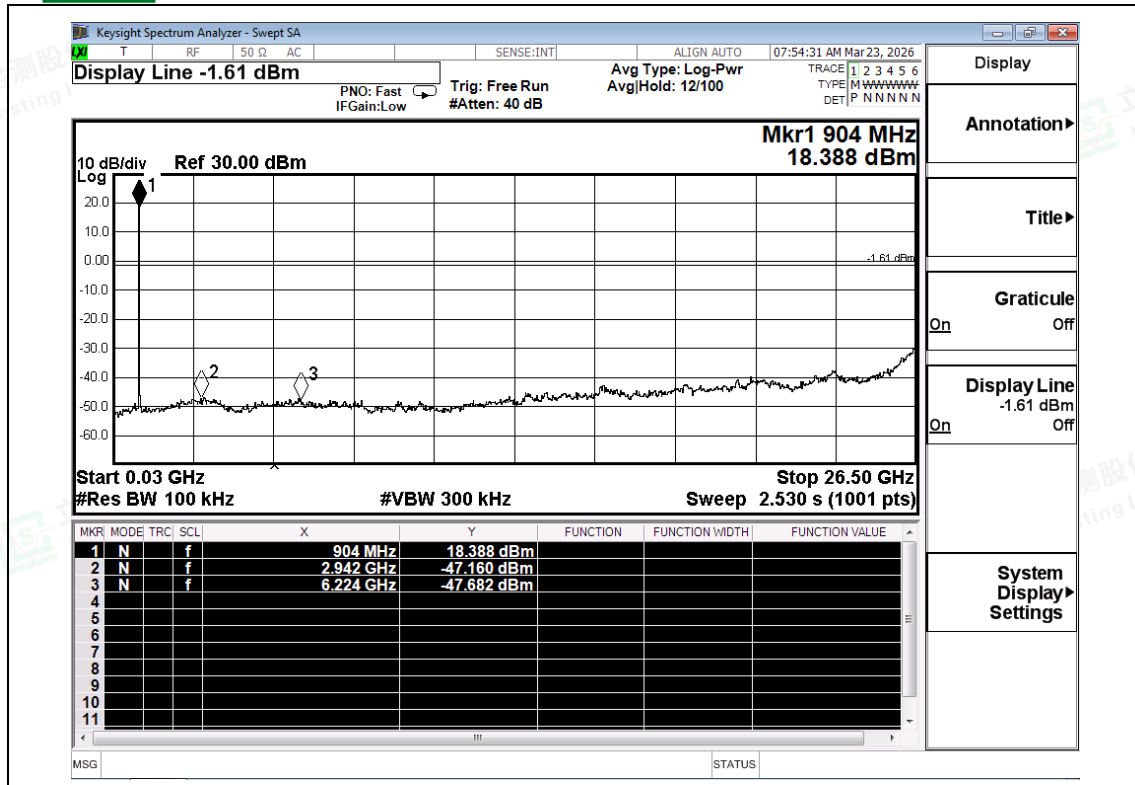
A.7 Conducted Spurious Emission

Test Result

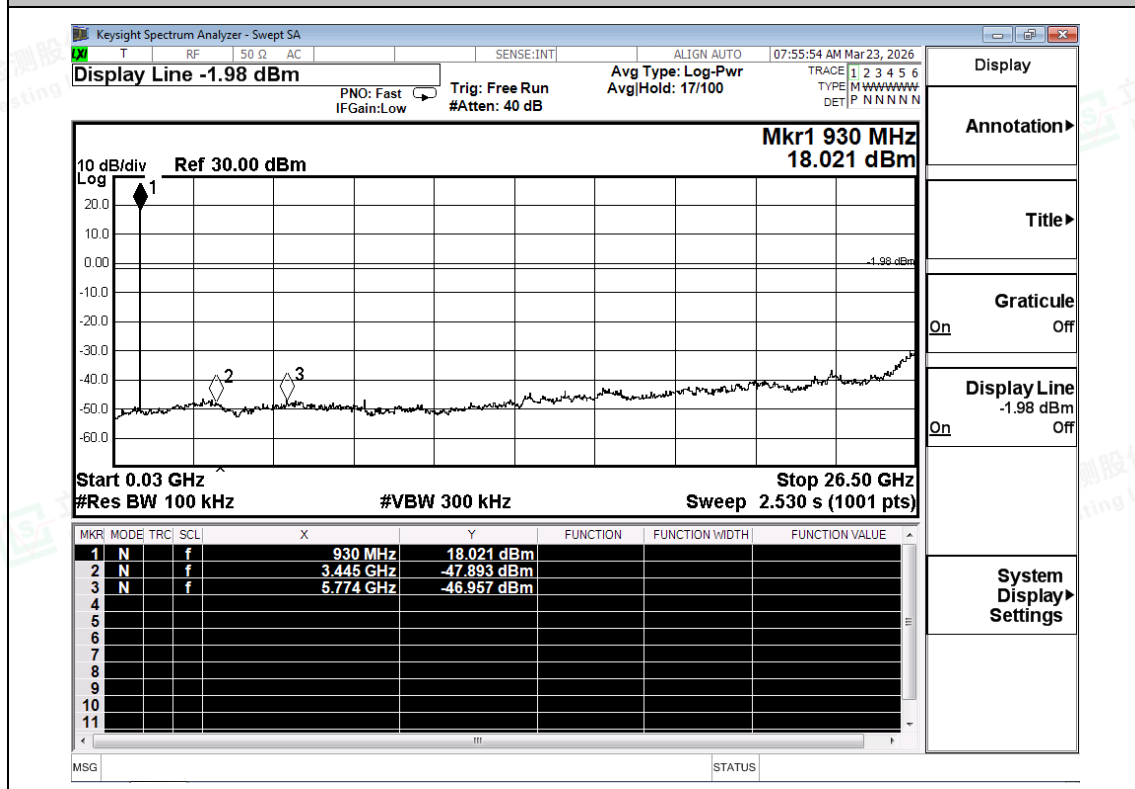
Antenna	Channel[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
Ant1	902.25	30~26500	18.429	-45.919	<=-1.58	PASS
	914.85	30~26500	18.388	-47.160	<=-1.61	PASS
	927.55	30~26500	18.021	-47.893	<=-1.98	PASS

Test Graphs





Ant1_927.55_30~26500



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Test Result

Antenna	Channel[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
Ant2	902.25	30~26500	18.411	-48.074	<=-1.60	PASS
	914.85	30~26500	18.392	-47.634	<=-1.61	PASS
	927.55	30~26500	18.005	-47.680	<=-2.00	PASS

Test Graphs

