



Appendix A

RF Test Data for 915M (Conducted Measurement)

Product Name: QRG2 FCC

Test Model: QRG2 FCC

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



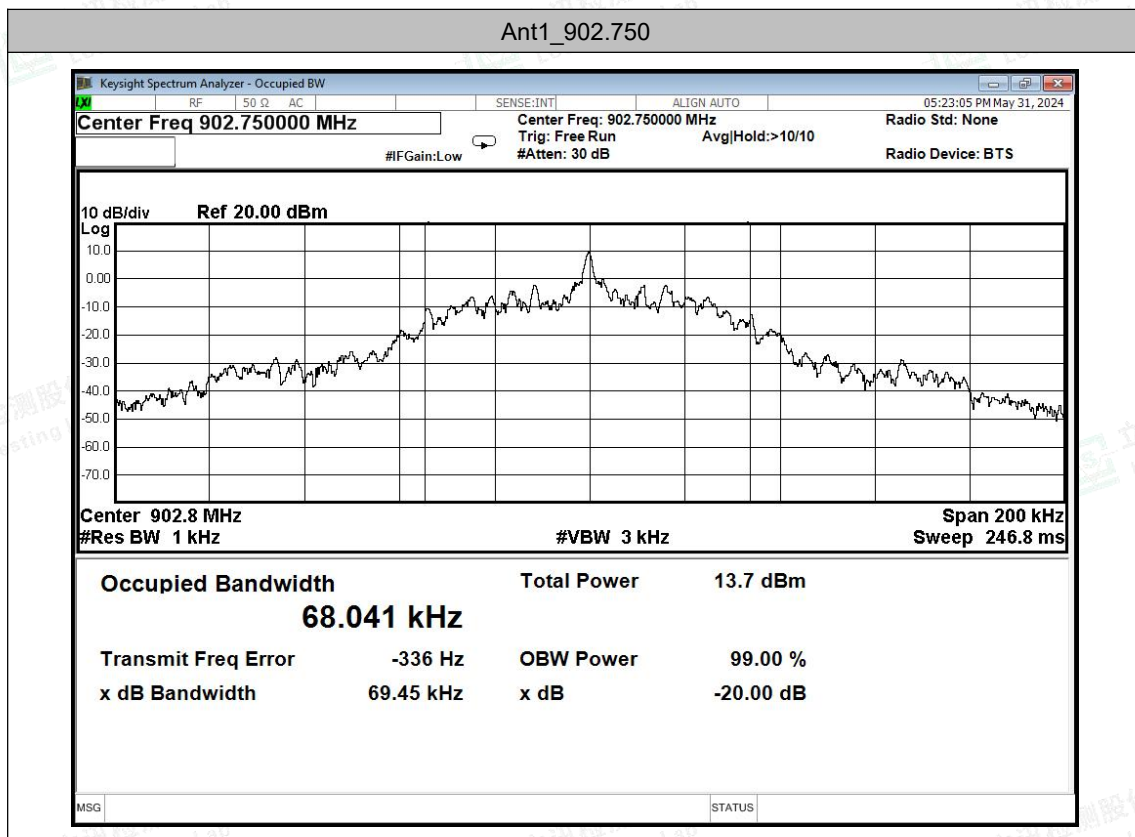


A.1 20dB Emission Bandwidth

Test Result

Antenna	Channel[MHz]	20db EBW[kHz]	Limit[MHz]	Verdict
Ant1	902.750	69.45	---	PASS
	915.250	69.42	---	PASS
	927.250	70.07	---	PASS

Test Graphs



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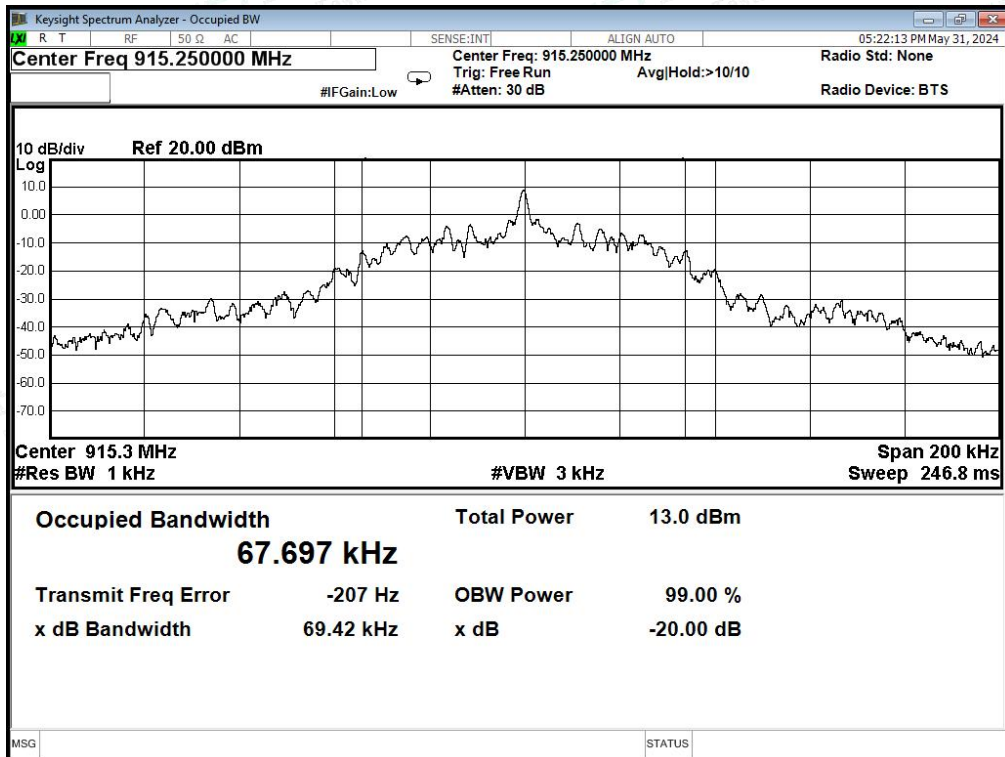
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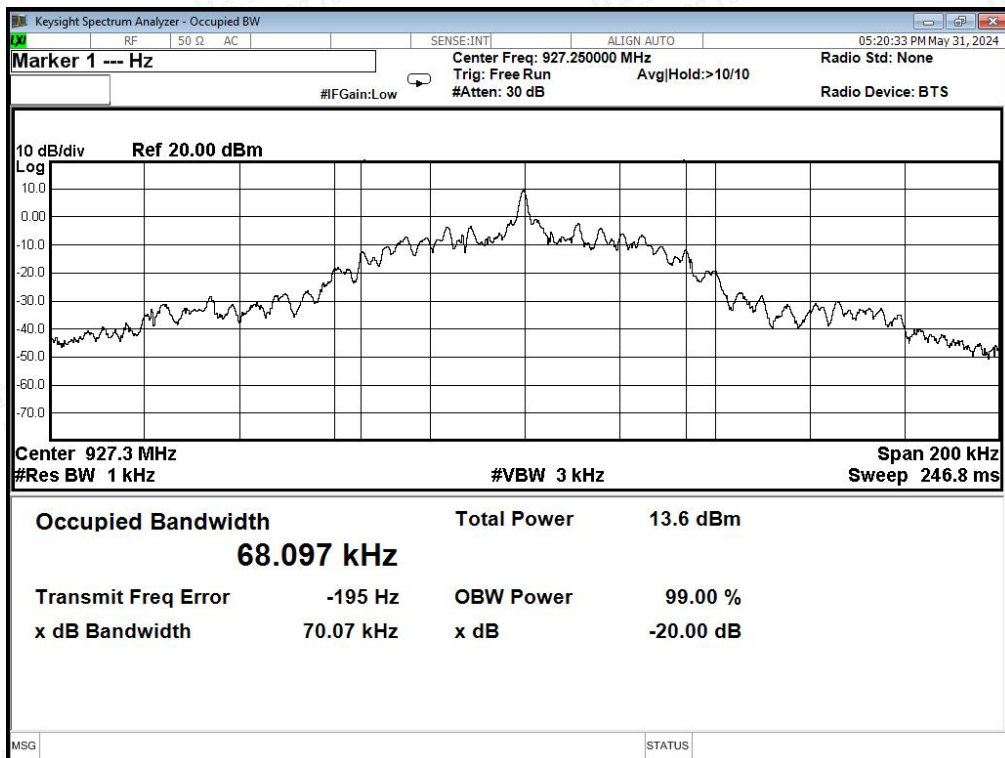
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Ant1_915.250



Ant1_927.250



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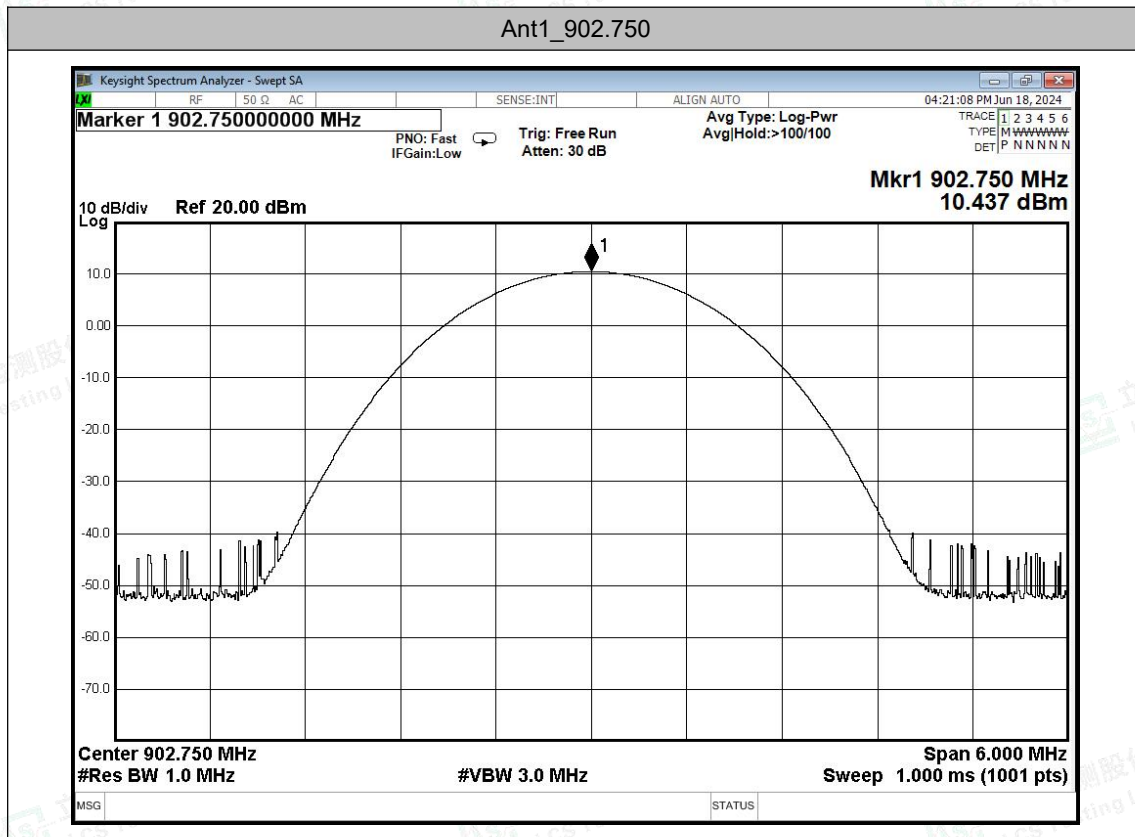


A.2 Maximum Peak Conducted Output Power

Test Result Peak

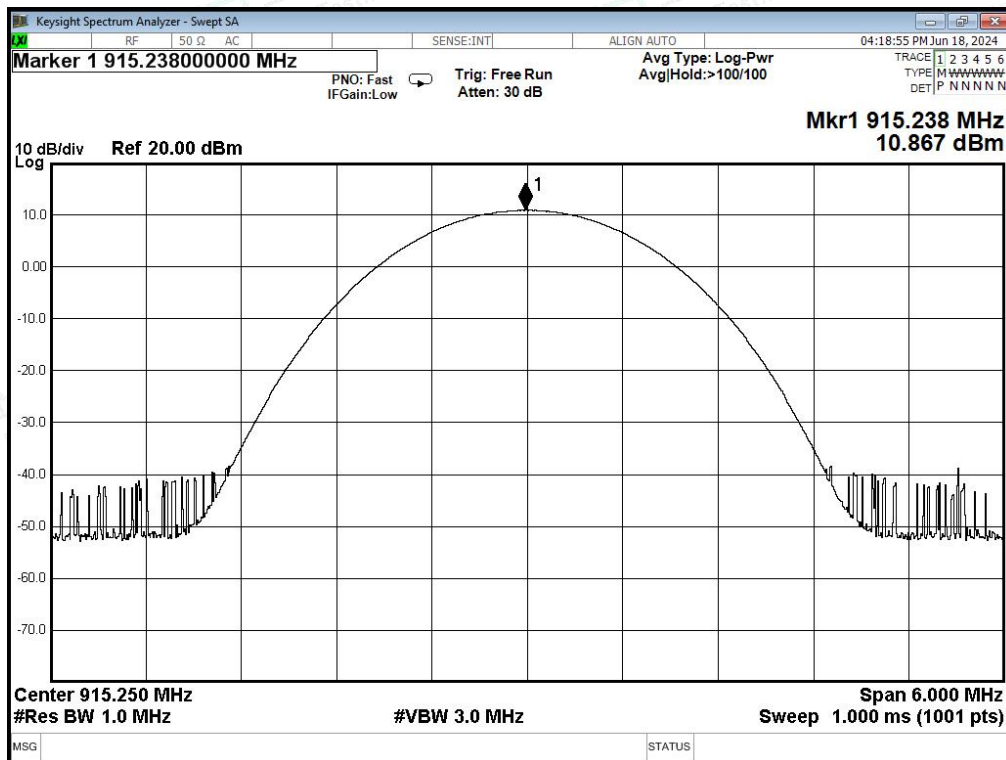
Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Ant1	902.750	10.44	≤30	PASS
	915.250	10.87	≤30	PASS
	927.250	10.98	≤30	PASS

Test Graphs

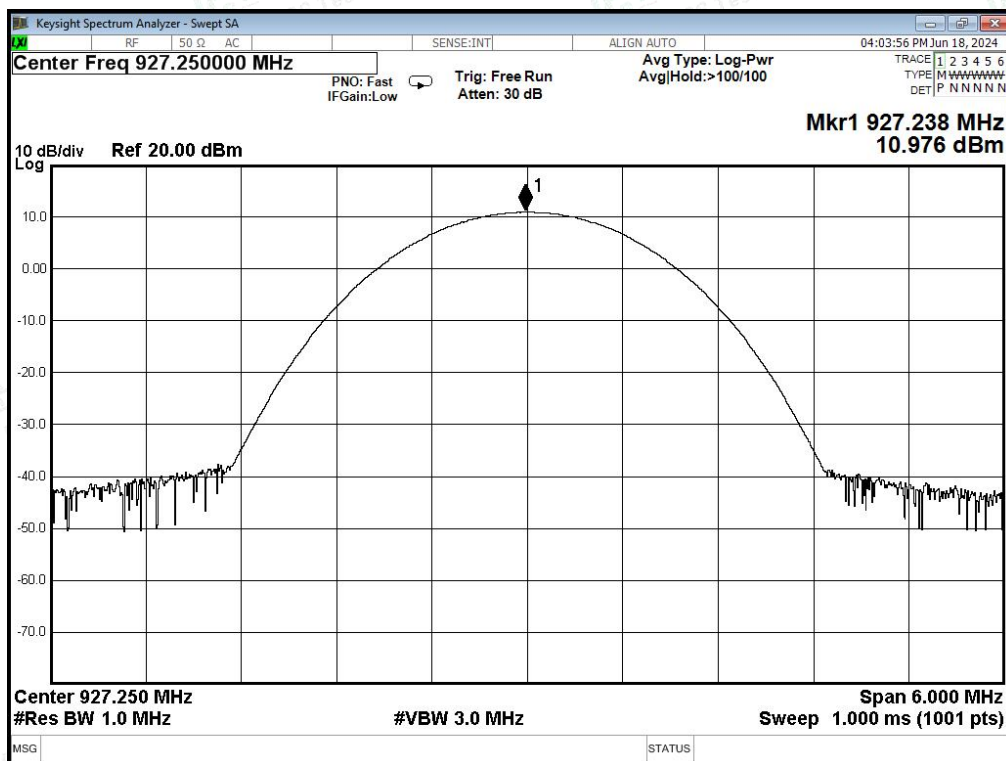




Ant1_915.250



Ant1_927.250



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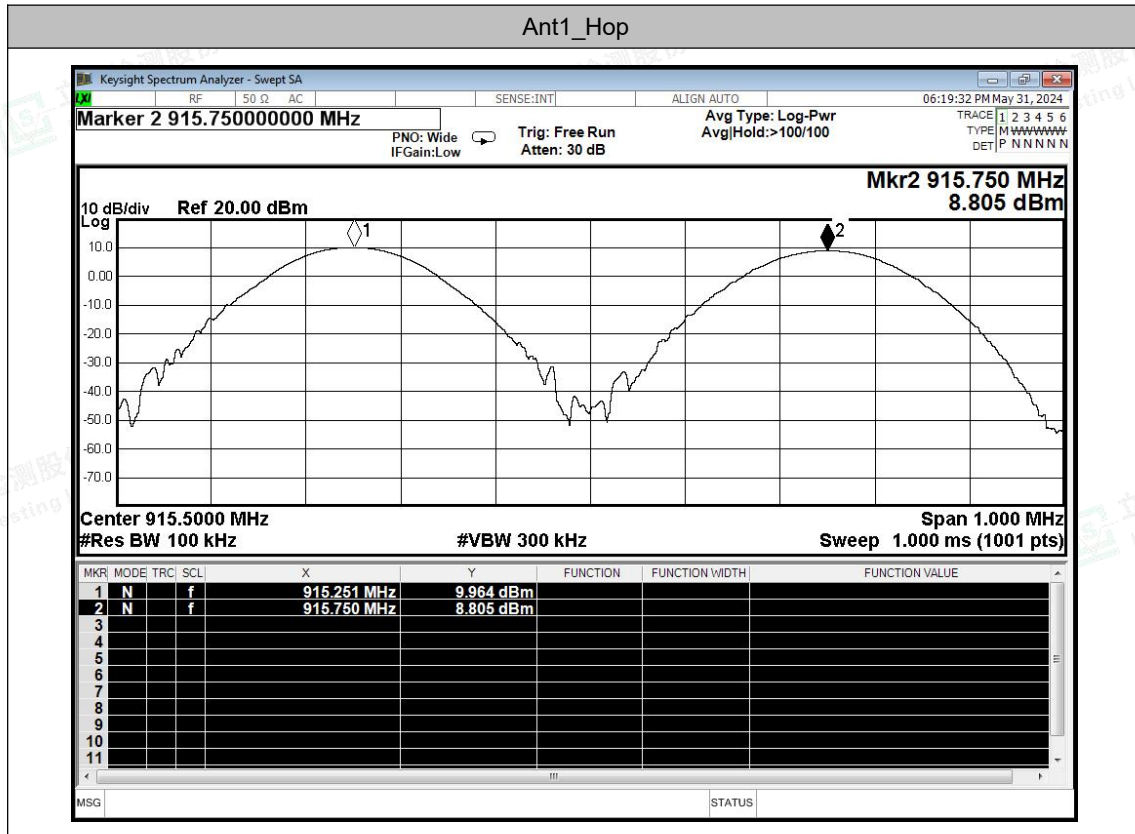


A.3 Carrier frequency separation

Test Result

Antenna	Channel[MHz]	Result[kHz]	Limit[kHz]	Verdict
Ant1	Hop	499	>=160.5	PASS

Test Graphs



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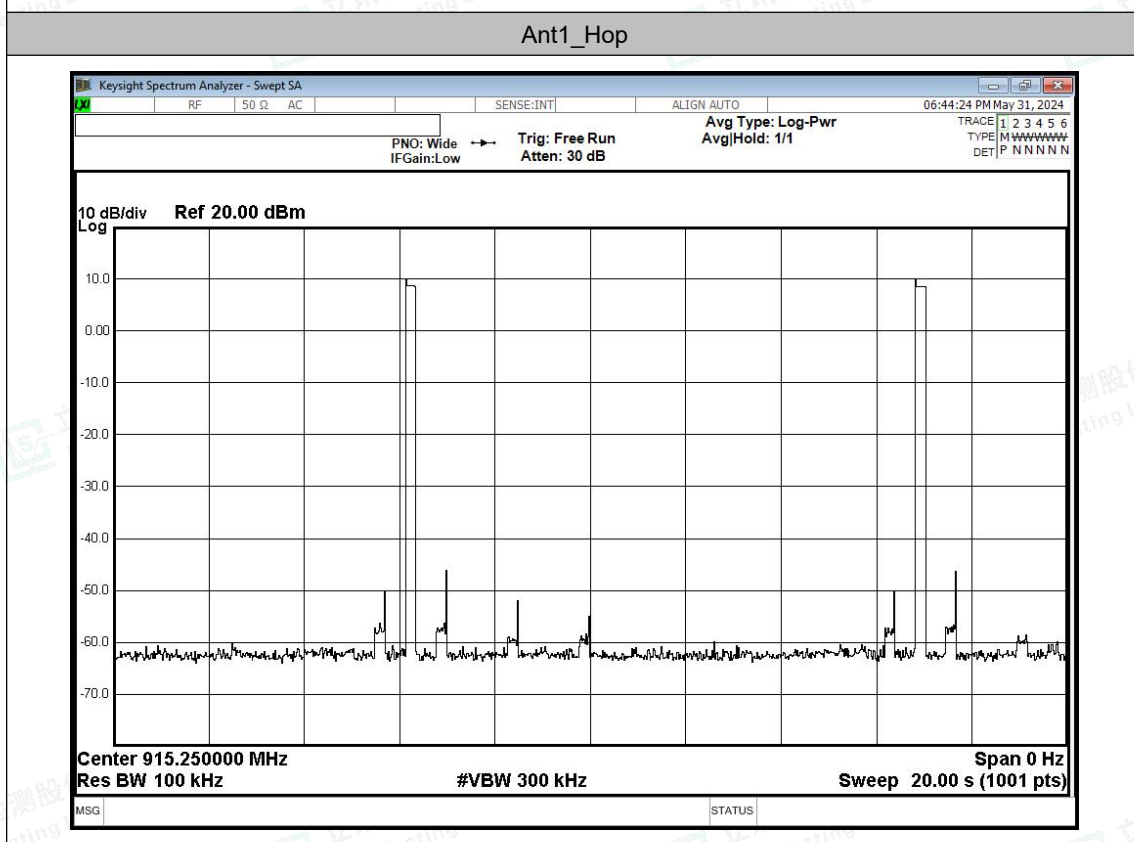
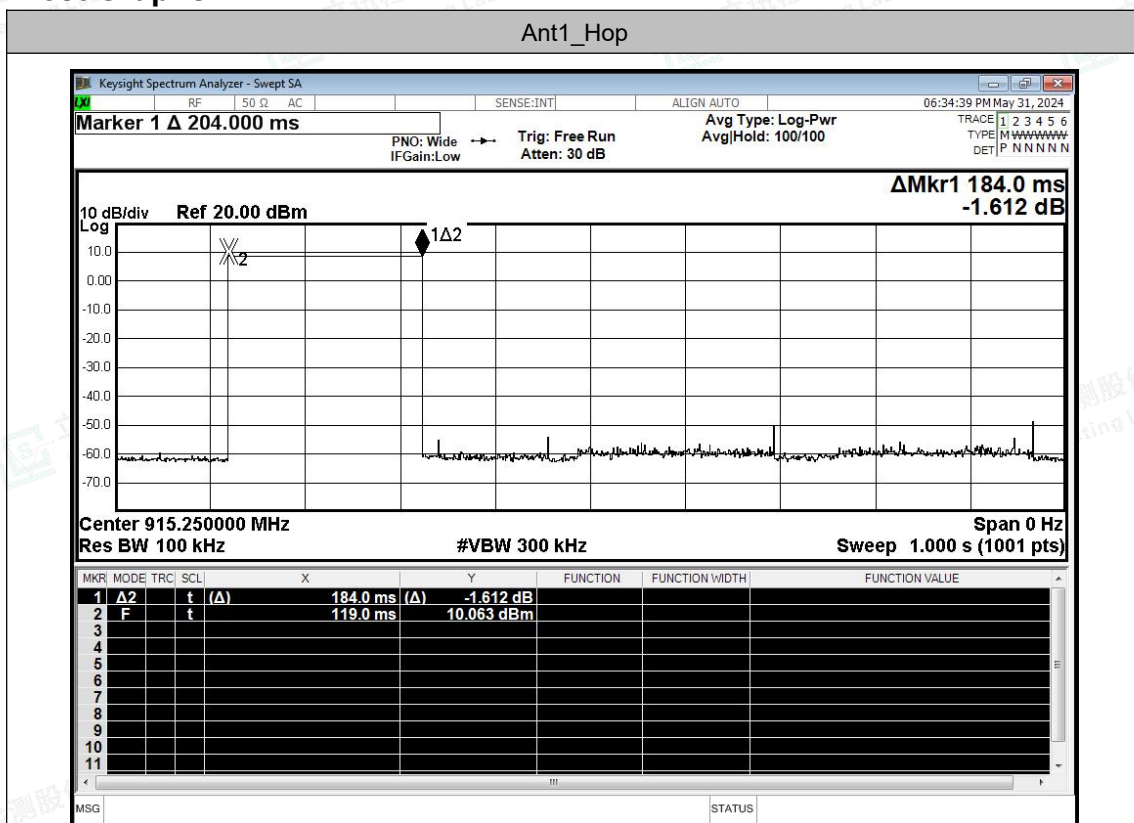
A.4 Time of occupancy

Test Result

Antenna	Channel[MHz]	Burst Width[ms]	Total Hops[Num]	Result[ms]	Limit[ms]	Verdict
Ant1	Hop	184.00	2	368	<=400	PASS



Test Graphs



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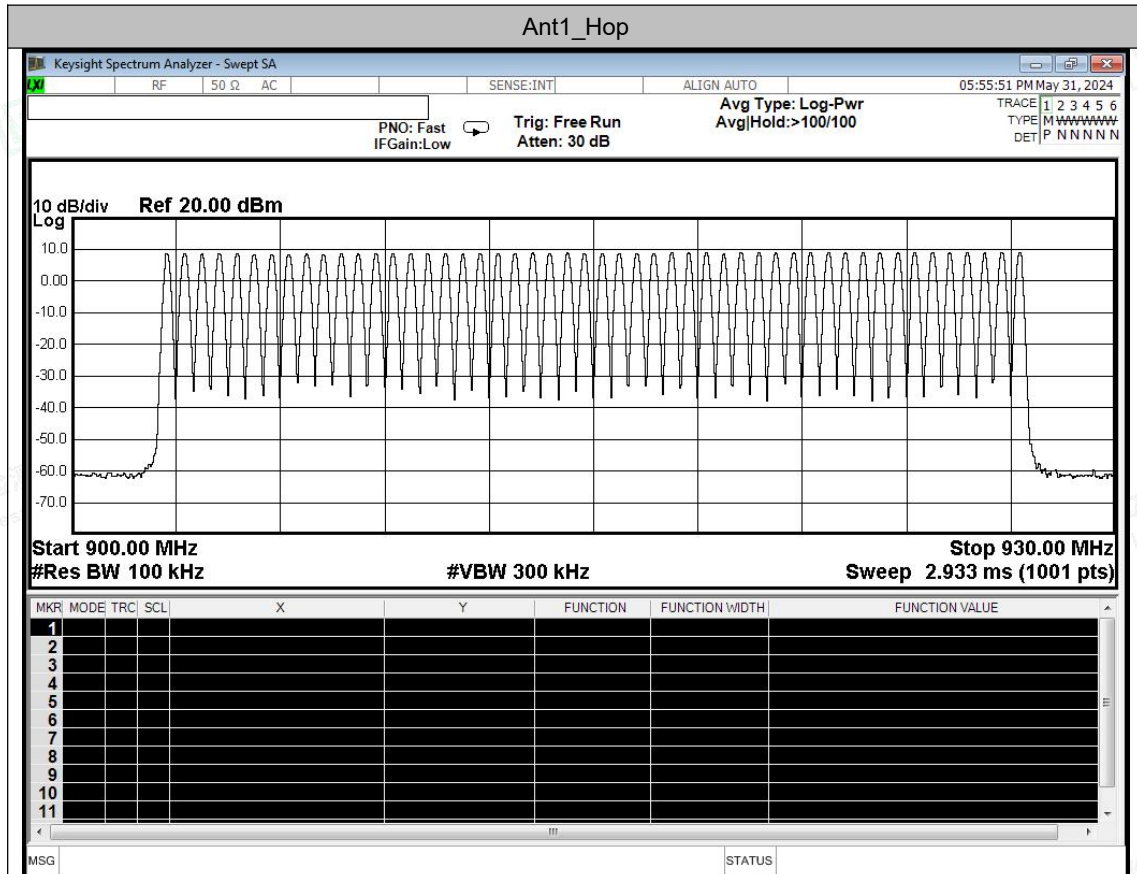


A.5 Number of hopping channels

Test Result

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

Test Graphs





A.6 Band edge measurements

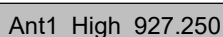
Test Result

Antenna	Ch Name	Channel[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
Ant1	Low	902.750	10.21	-55.18	≤ -9.79	PASS
	High	927.250	9.90	-56.55	≤ -10.10	PASS
	Low	Hop_902.750	8.58	-60.90	≤ -11.42	PASS
	High	Hop_927.250	9.57	-58.17	≤ -10.43	PASS





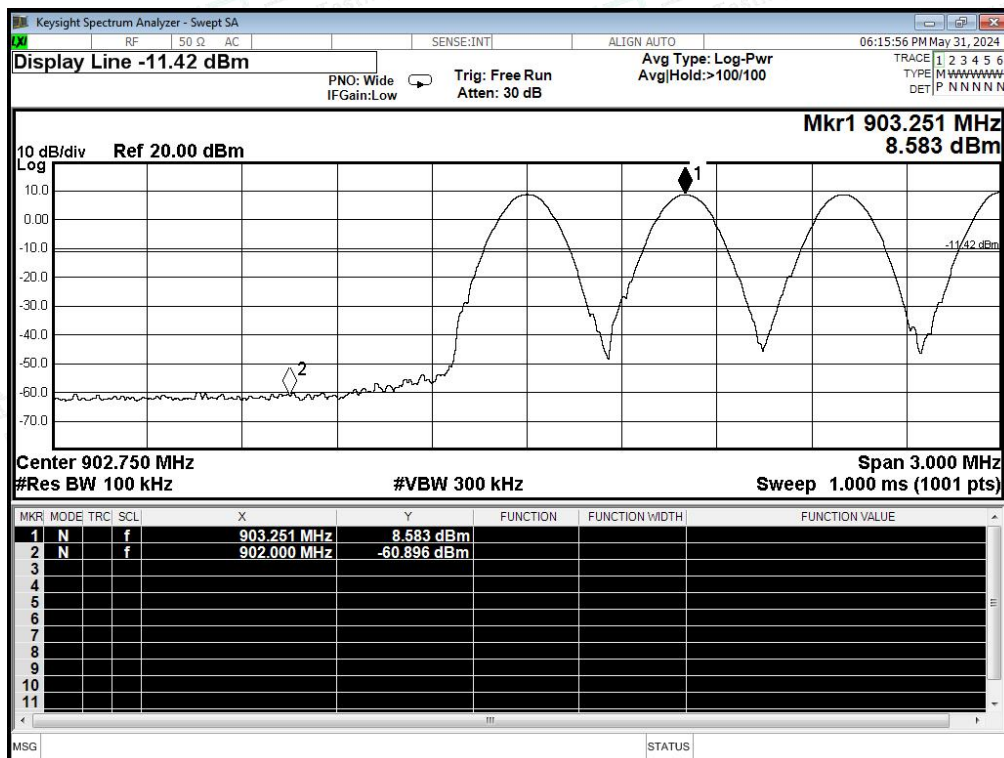
Ant1 Low 902.750



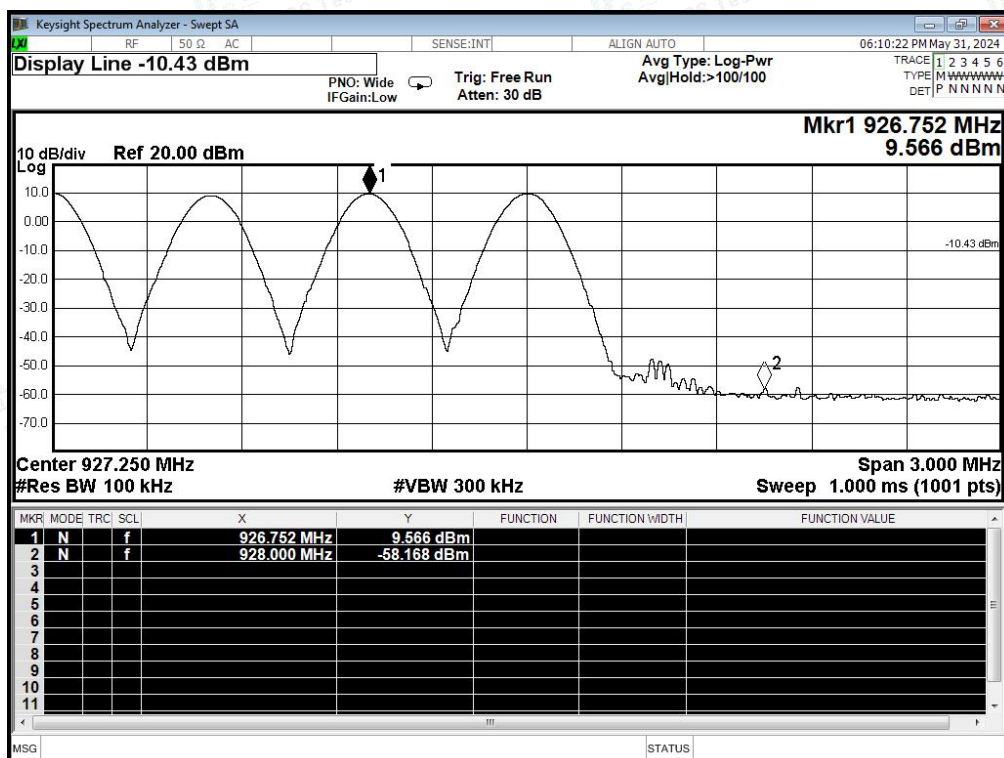
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Ant1_Low_Hop_902.750



Ant1_High_Hop_927.250



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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	902.750	Reference	10.10	10.10	---	PASS
		30~26500	10.10	-54.27	≤ -9.90	PASS
	915.250	Reference	10.48	10.48	---	PASS
		30~26500	10.48	-45.67	≤ -9.52	PASS
	927.250	Reference	10.89	10.89	---	PASS
		30~26500	10.89	-46.55	≤ -9.11	PASS



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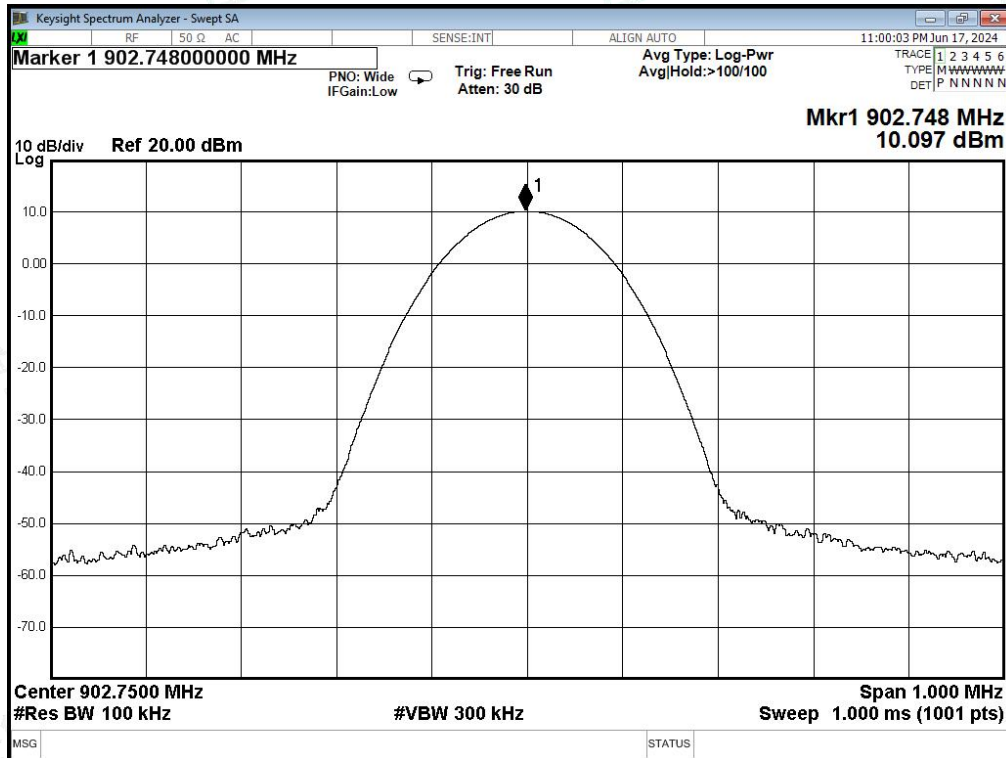
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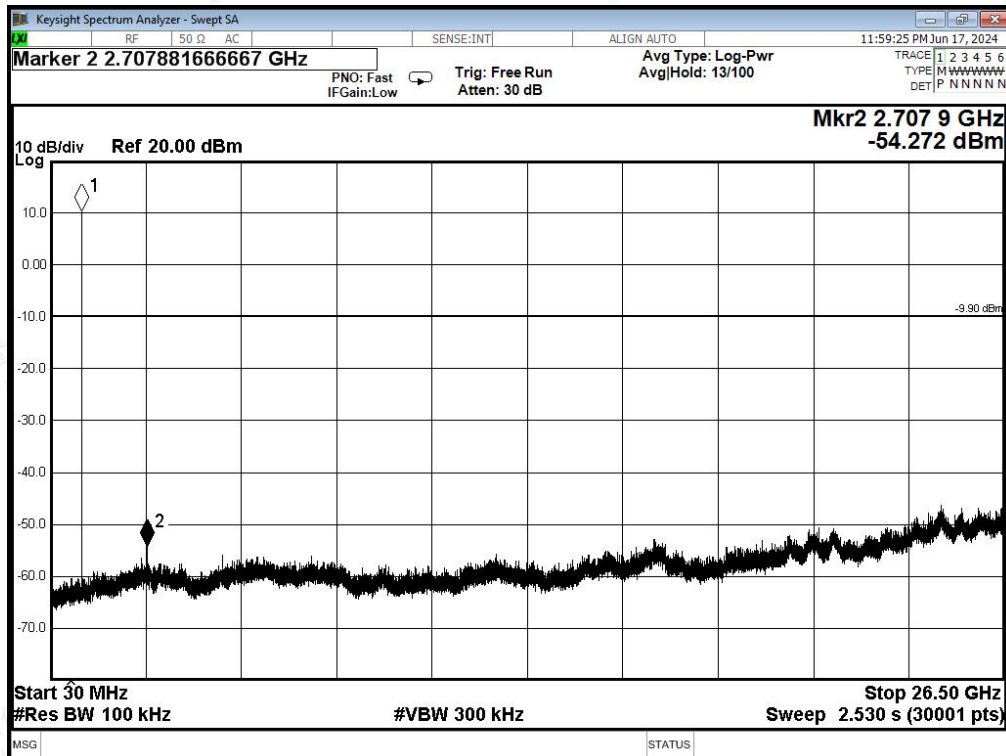


Test Graphs

Ant1_902.750_0~Reference



Ant1_902.750_30~26500



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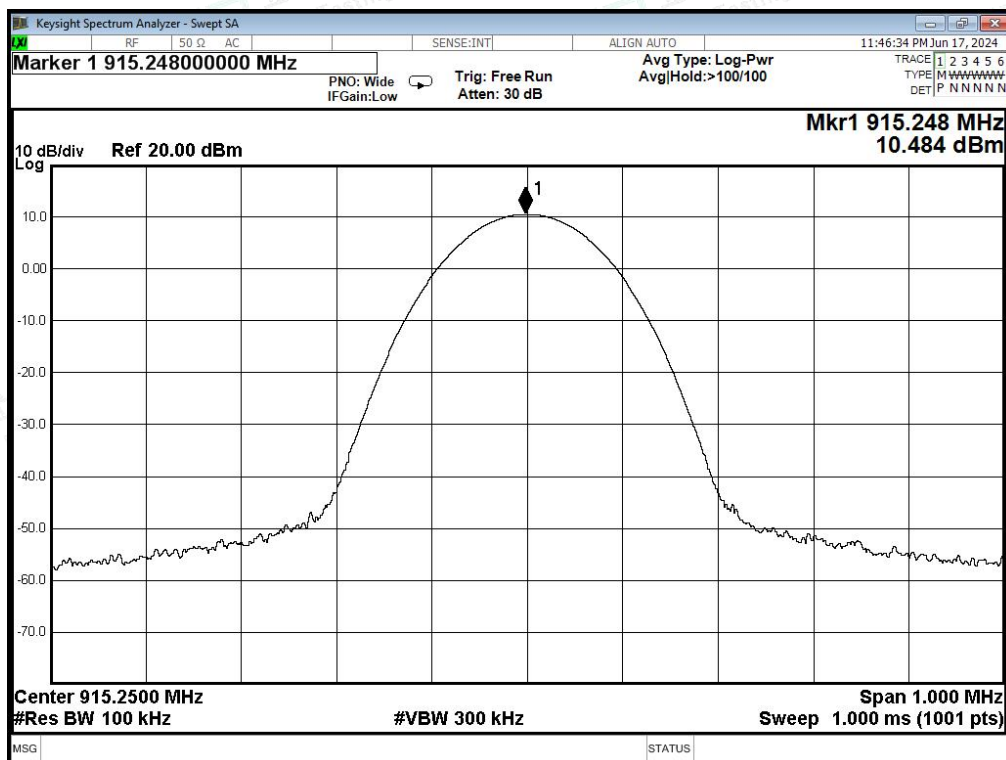
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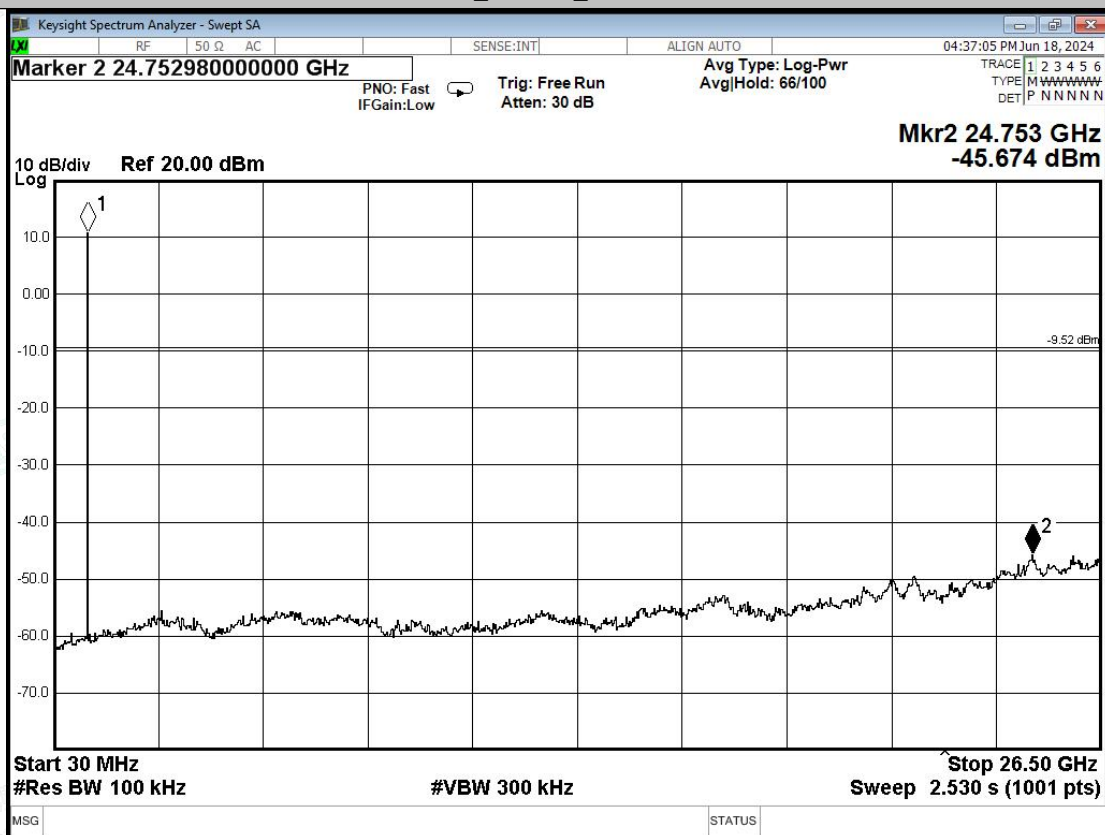
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Ant1_915.250_0~Reference



Ant1_915.250_30~26500



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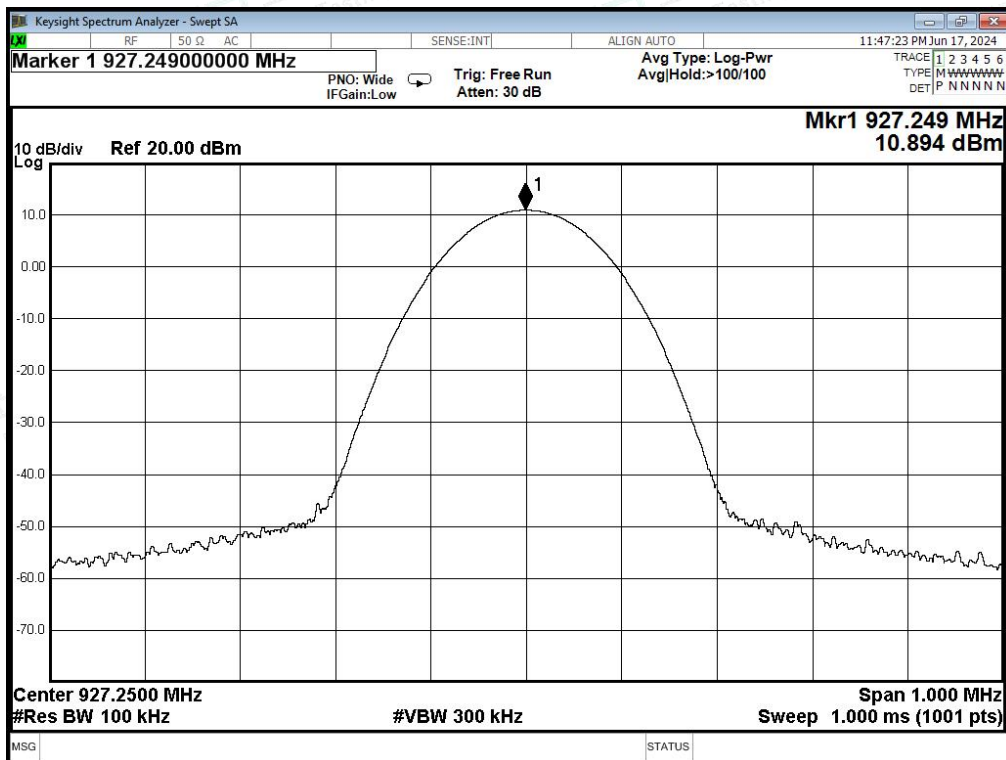
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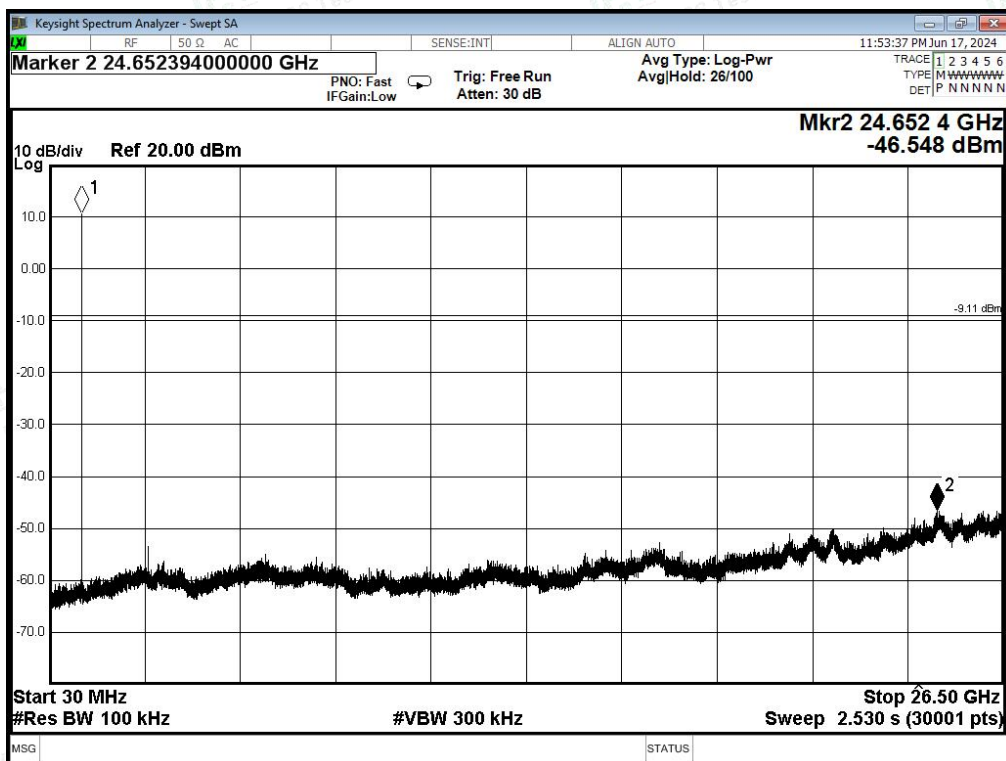
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Ant1_927.250_0~Reference



Ant1_927.250_30~26500



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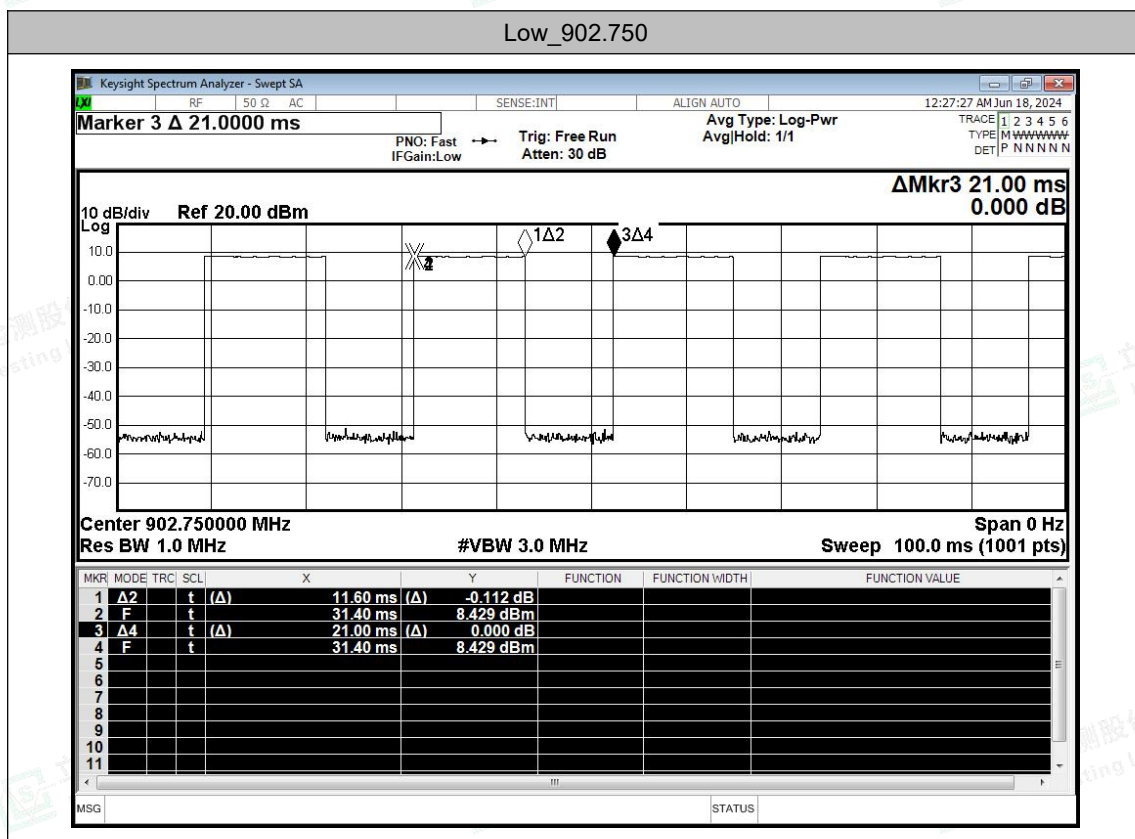


A.8 Duty Cycle

Test Result

Antenna	Channel[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
Ant1	902.750	11.60	21.00	55.24	---	PASS
	915.250	12.50	21.90	57.08	---	PASS
	927.250	11.60	21.00	55.24	---	PASS

Test Graphs



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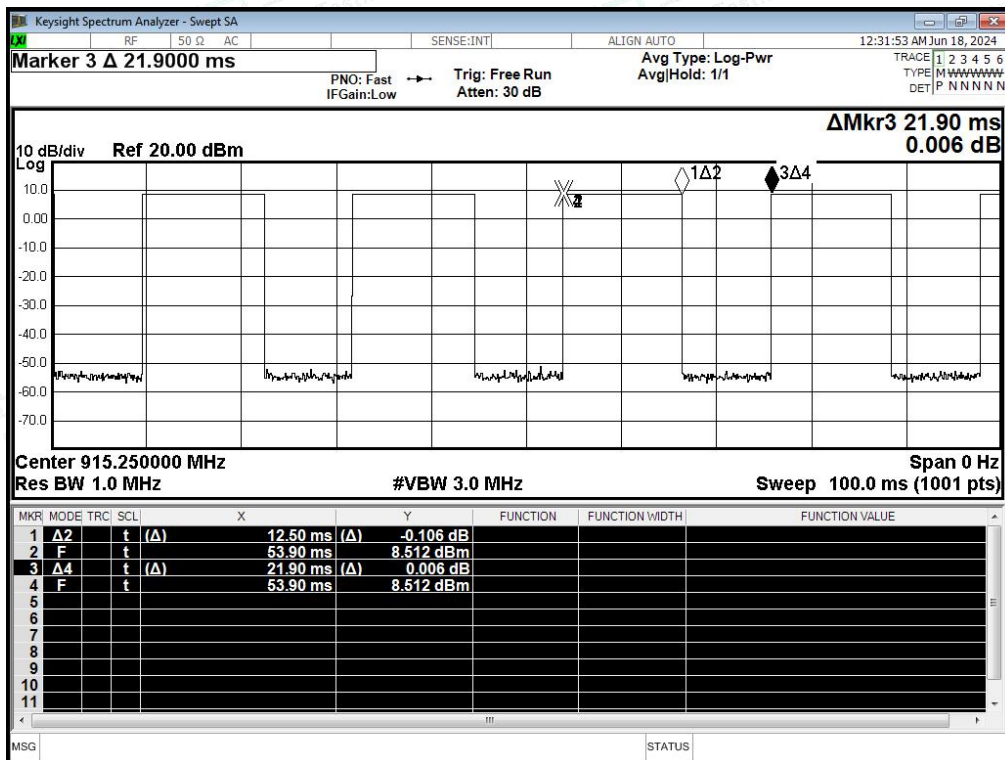
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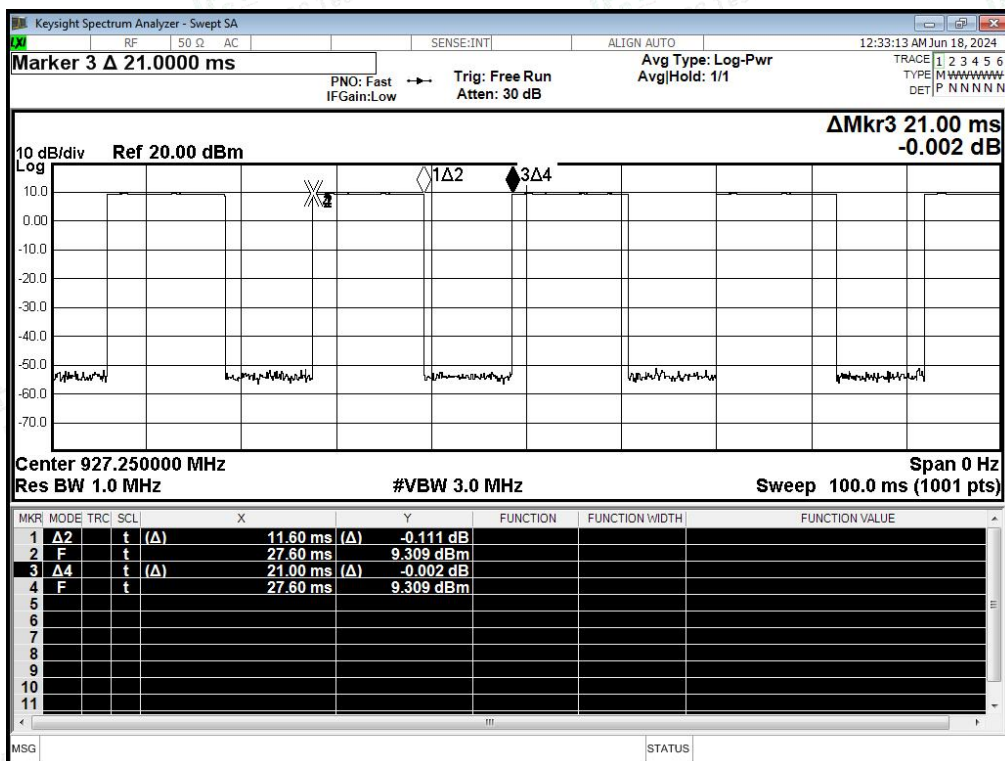
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Ant1_915.250



Ant1_927.250



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