

TEST REPORT

Report No.: MTi260706005-0104E1

		Middle	GOOD
		High	GOOD
	NV	Low	GOOD
		Middle	GOOD
		High	GOOD
	HV	Low	GOOD
		Middle	GOOD
		High	GOOD

Test Mode	Test Voltage	Channel	Results
IEEE802.11ac40	LV	Low	GOOD
		Middle	GOOD
	NV	Low	GOOD
		Middle	GOOD
	HV	Low	GOOD
		Middle	GOOD

Test Mode	Test Voltage	Channel	Results
IEEE802.11ac80	LV	Low	GOOD
	NV	Low	GOOD
	HV	Low	GOOD

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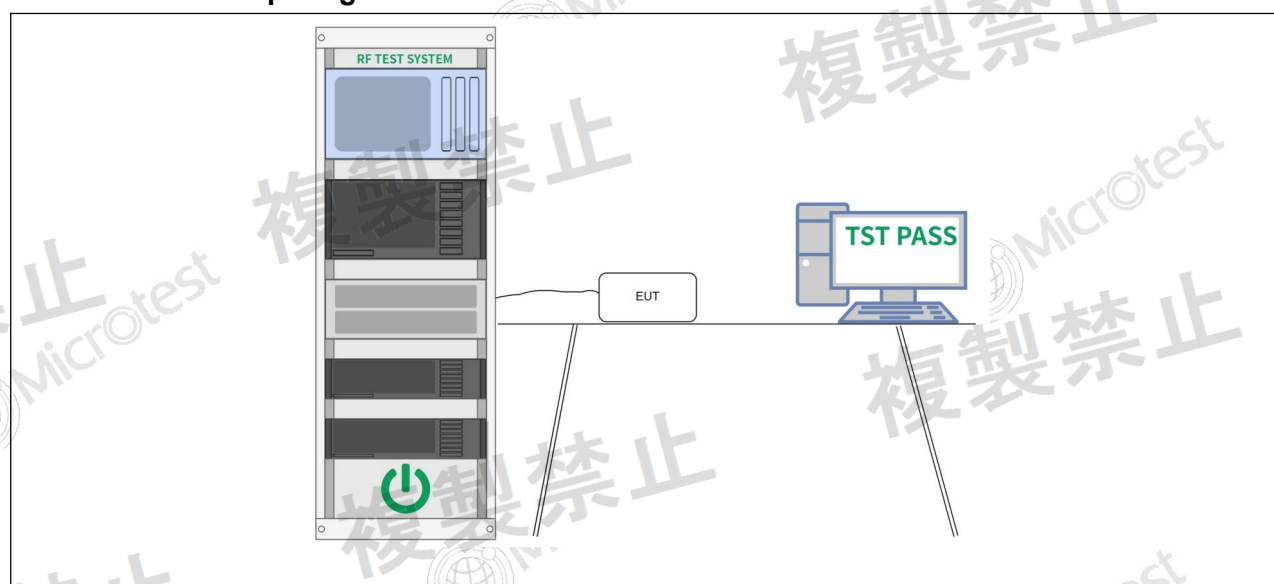
6.10 Transmission Burst Length

Test Requirement:	Article 2-1, Item 19-3
Test Limit:	8ms or less
Test Method:	Frequency: Center of tested frequency Span:0 Hz RBW: 1 MHz VBW: 1 MHz Sweep time: Auto Sweep data points: 1001 or greater Detector mode: Sample
Procedure:	Configure the spectrum analyzer to [Setting 1] and then search the max pulse, and measure the transmission time.

6.10.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.4 °C	Humidity:	45.2 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				
Final test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				

6.10.2 Test Setup Diagram:



6.10.3 Test Data:

Please Refer to Appendix for Details.

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Photographs of the test setup

Refer to Appendix - Test Setup Photos

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Photographs of the EUT

Refer to Appendix - EUT Photos

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6.11 Appendix A: Frequency Error

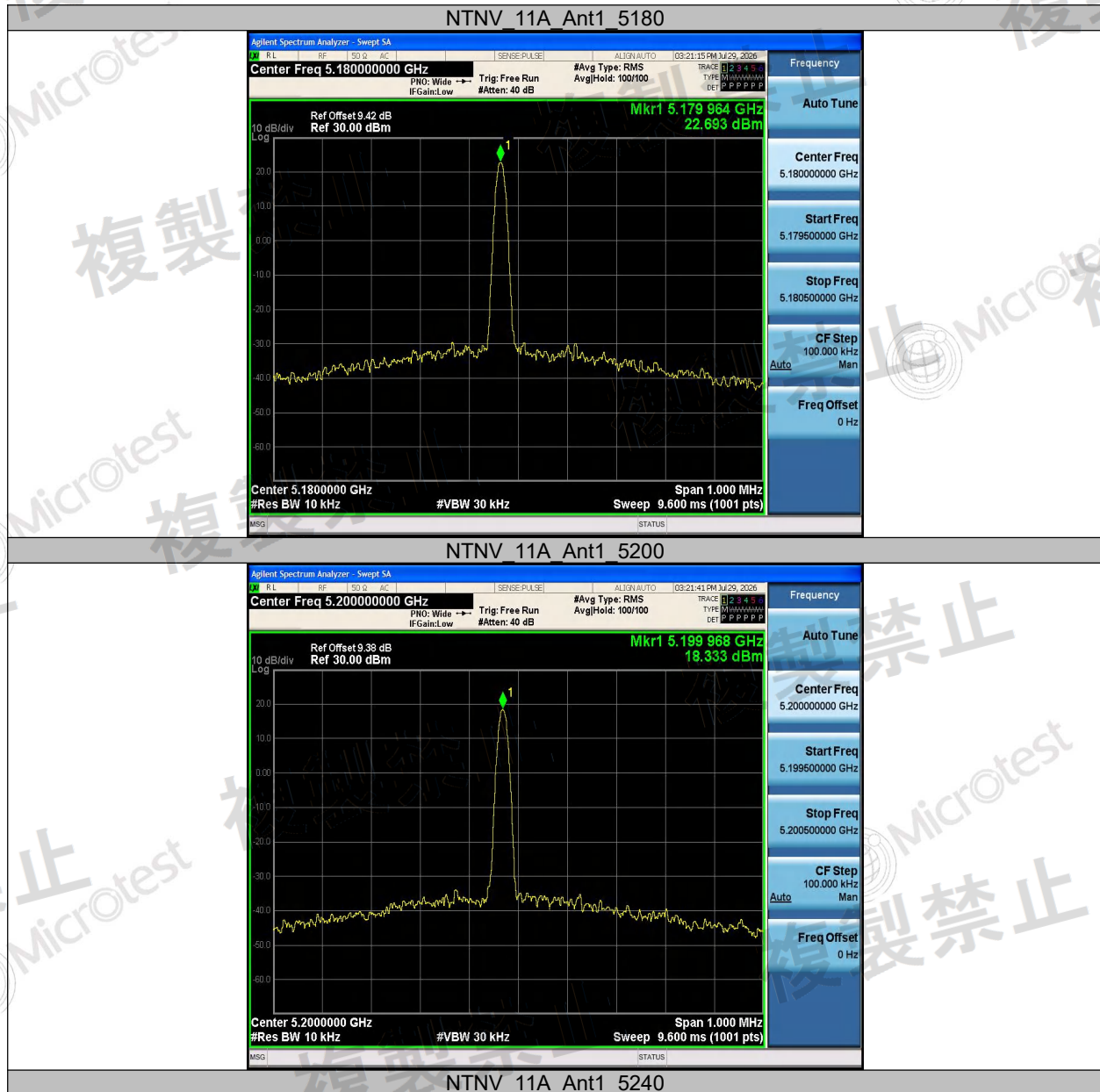
6.11.1 Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	CenterFreq [MHz]	Result [ppm]	Limit [ppm]	Verdict
NTNV	11A	Ant1	5180	5179.964	-6.94981	±20	PASS
			5200	5199.968	-6.15385	±20	PASS
			5240	5239.967	-6.29771	±20	PASS
	11N40SISO	Ant1	5190	5189.97	-5.78035	±20	PASS
			5230	5229.971	-5.54493	±20	PASS
	11AC80SISO	Ant1	5210	5209.971	-5.56622	±20	PASS

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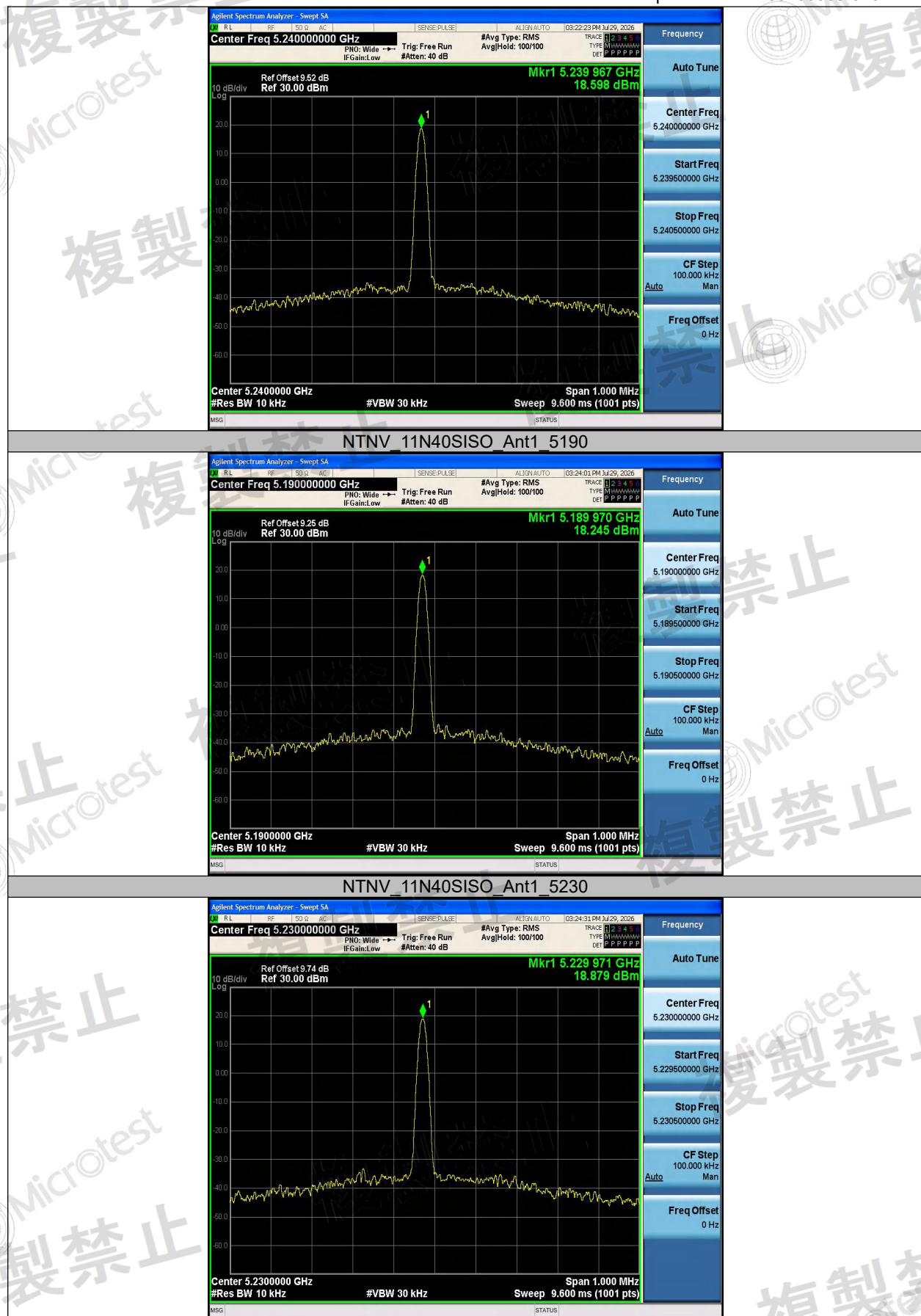
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6.11.2 Test Graphs



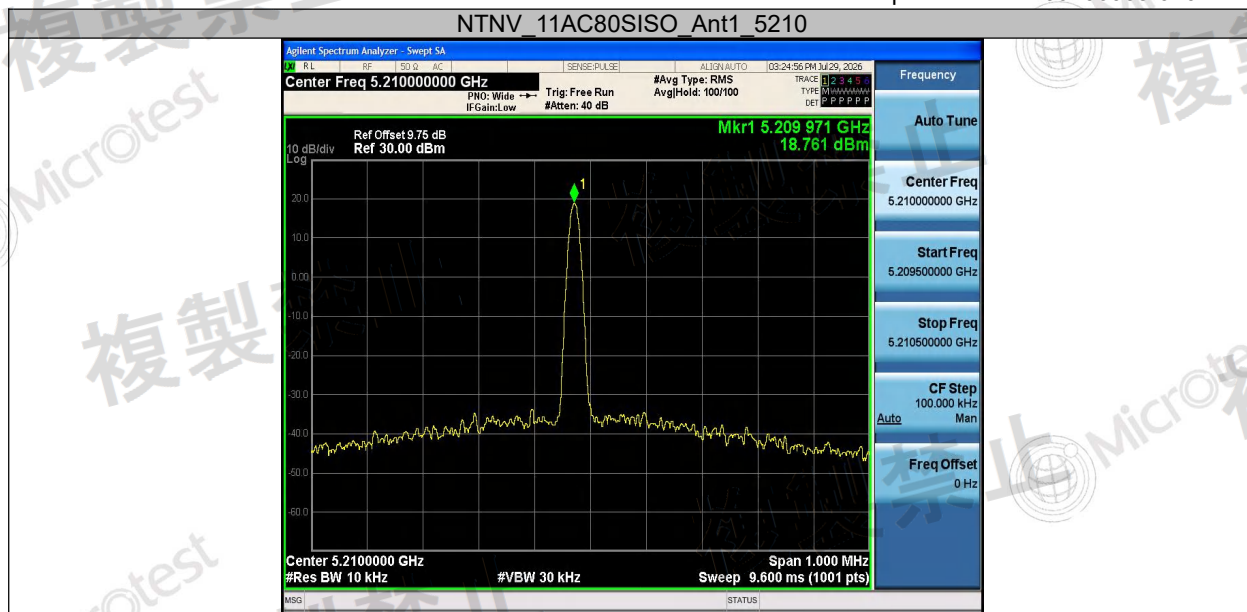
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6.12 Appendix B: Antenna Power

6.12.1 Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Freq(M Hz)	Result(dBm/MHz)	Result(mW/M Hz)	Limit(mW/MHz)	Verdict
NTNV	11A	Ant1	5180	6.72	4.6989	≤10	PASS
			5200	9.41	8.7297	≤10	PASS
			5240	9.59	9.0991	≤10	PASS
	11N20SI SO	Ant1	5180	7.67	5.8479	≤10	PASS
			5200	9.01	7.9616	≤10	PASS
			5240	9.21	8.3368	≤10	PASS
	11N40SI SO	Ant1	5190	5.23	3.3343	≤5	PASS
			5230	5.84	3.8371	≤5	PASS
	11AC20S ISO	Ant1	5180	9.17	8.2604	≤10	PASS
			5200	9.34	8.5901	≤10	PASS
			5240	9.29	8.4918	≤10	PASS
	11AC40S ISO	Ant1	5190	4.66	2.9242	≤5	PASS
			5230	5.33	3.4119	≤5	PASS
	11AC80S ISO	Ant1	5210	1.18	1.3122	≤2.5	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq(MHz)	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11A	Ant1	5180	4.6989	10	-53.01	-80 to +20	PASS
			5200	8.7297	10	-12.70	-80 to +20	PASS
			5240	9.0991	10	-9.01	-80 to +20	PASS
	11N20SI SO	Ant1	5180	5.8479	10	-41.52	-80 to +20	PASS
			5200	7.9616	10	-20.38	-80 to +20	PASS
			5240	8.3368	10	-16.63	-80 to +20	PASS
	11N40SI SO	Ant1	5190	3.3343	5	-33.31	-80 to +20	PASS
			5230	3.8371	5	-23.26	-80 to +20	PASS
	11AC20 SISO	Ant1	5180	8.2604	10	-17.40	-80 to +20	PASS
			5200	8.5901	10	-14.10	-80 to +20	PASS
			5240	8.4918	10	-15.08	-80 to +20	PASS
	11AC40 SISO	Ant1	5190	2.9242	5	-41.52	-80 to +20	PASS
			5230	3.4119	5	-31.76	-80 to +20	PASS
	11AC80 SISO	Ant1	5210	1.3122	2.5	-47.51	-80 to +20	PASS

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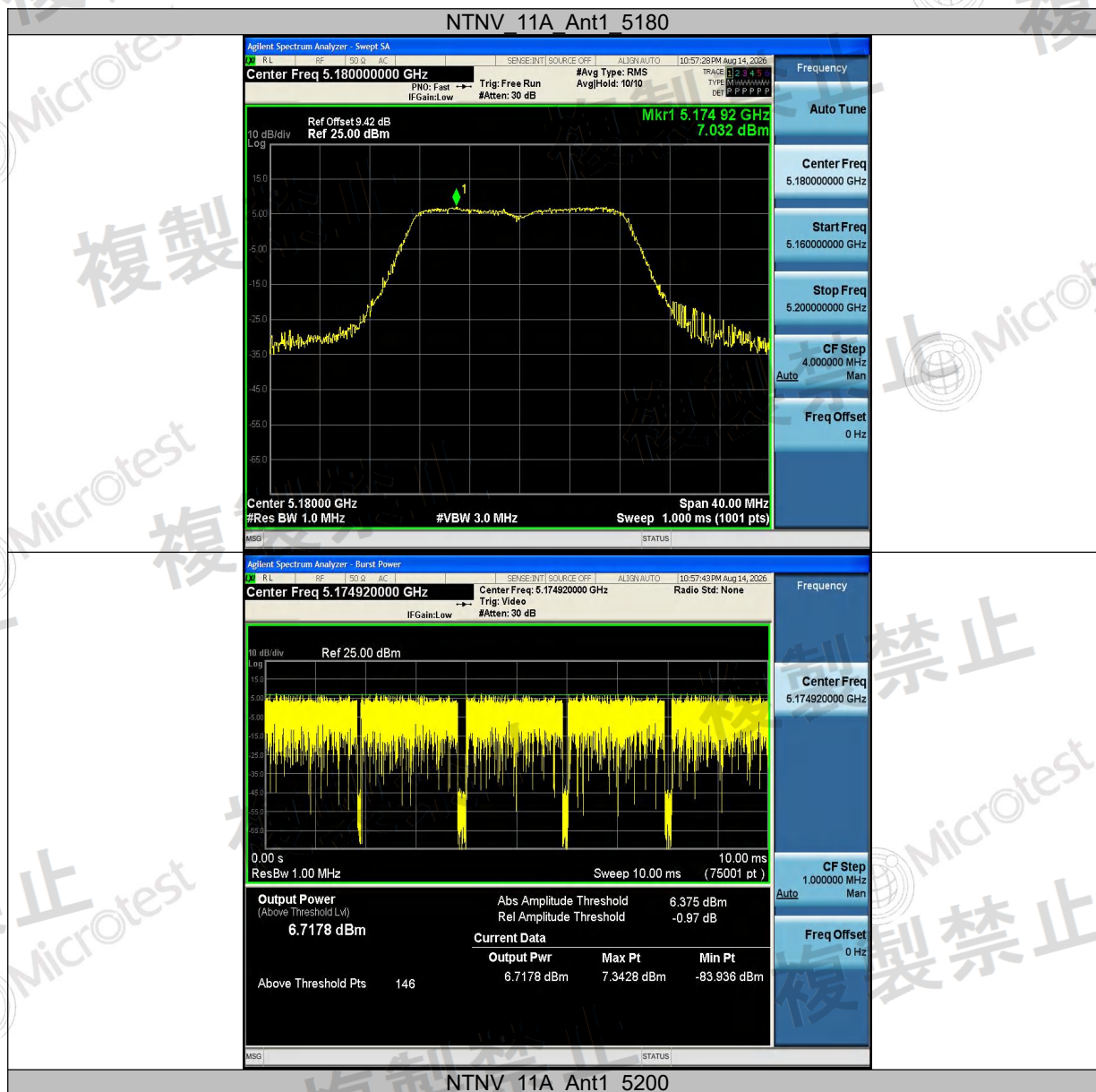
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EIRP							
TestCondition	TestMode	Antenna	Freq(M Hz)	Result(mW/MHz)	EIRP(mW/M Hz)	Limit(mW/MHz)	Verdict
NTNV	11A	Ant1	5180	4.6989	2.4099	≤10	PASS
			5200	8.7297	4.4771	≤10	PASS
			5240	9.0991	4.6666	≤10	PASS
	11N20SI SO	Ant1	5180	5.8479	2.9992	≤10	PASS
			5200	7.9616	4.0832	≤10	PASS
			5240	8.3368	4.2756	≤10	PASS
	11N40SI SO	Ant1	5190	3.3343	1.7100	≤5	PASS
			5230	3.8371	1.9679	≤5	PASS
	11AC20S ISO	Ant1	5180	8.2604	4.2364	≤10	PASS
			5200	8.5901	4.4055	≤10	PASS
			5240	8.4918	4.3551	≤10	PASS
	11AC40S ISO	Ant1	5190	2.9242	1.4997	≤5	PASS
			5230	3.4119	1.7498	≤5	PASS
	11AC80S ISO	Ant1	5210	1.3122	0.6730	≤2.5	PASS

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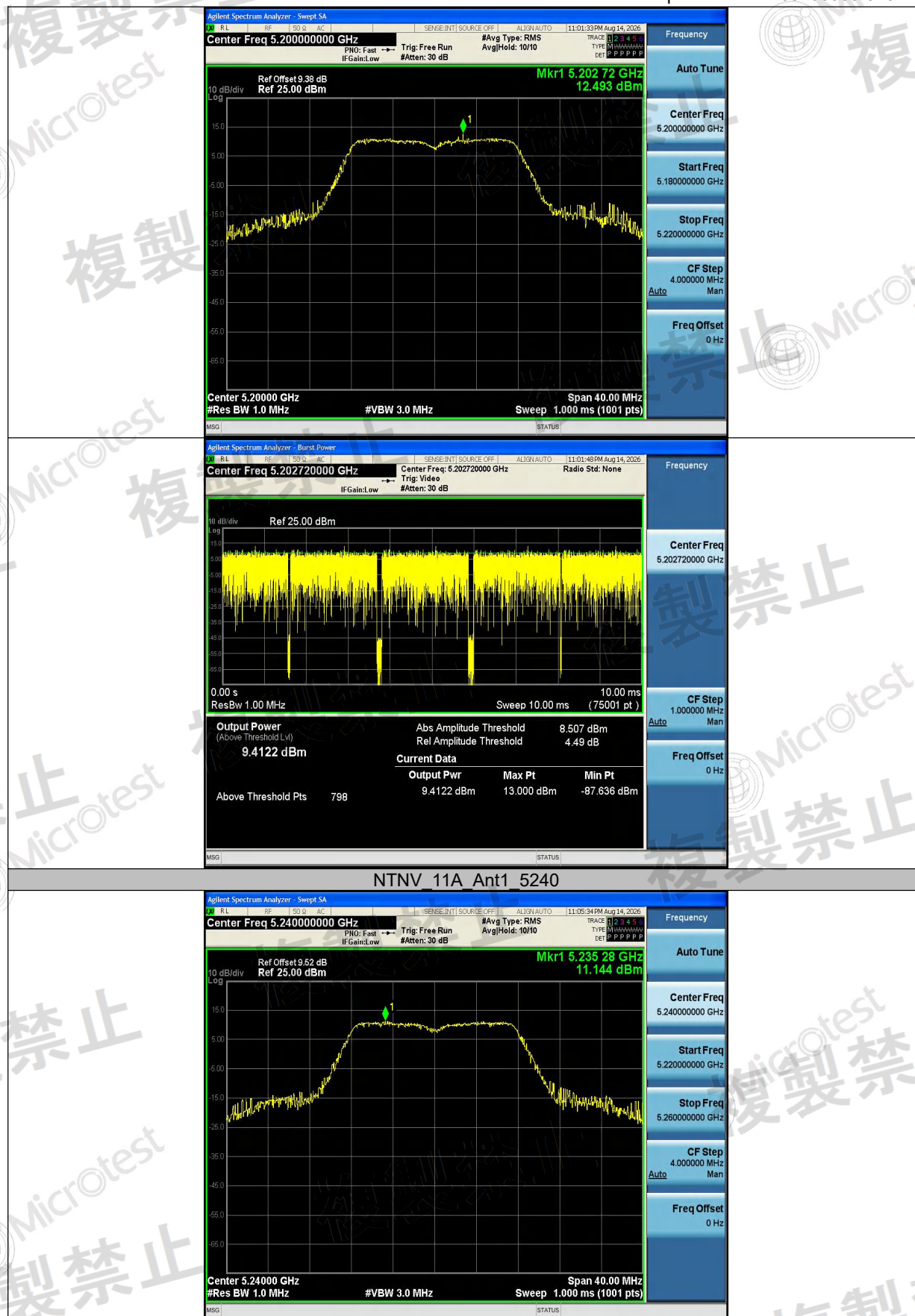
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6.12.2 Test Graphs



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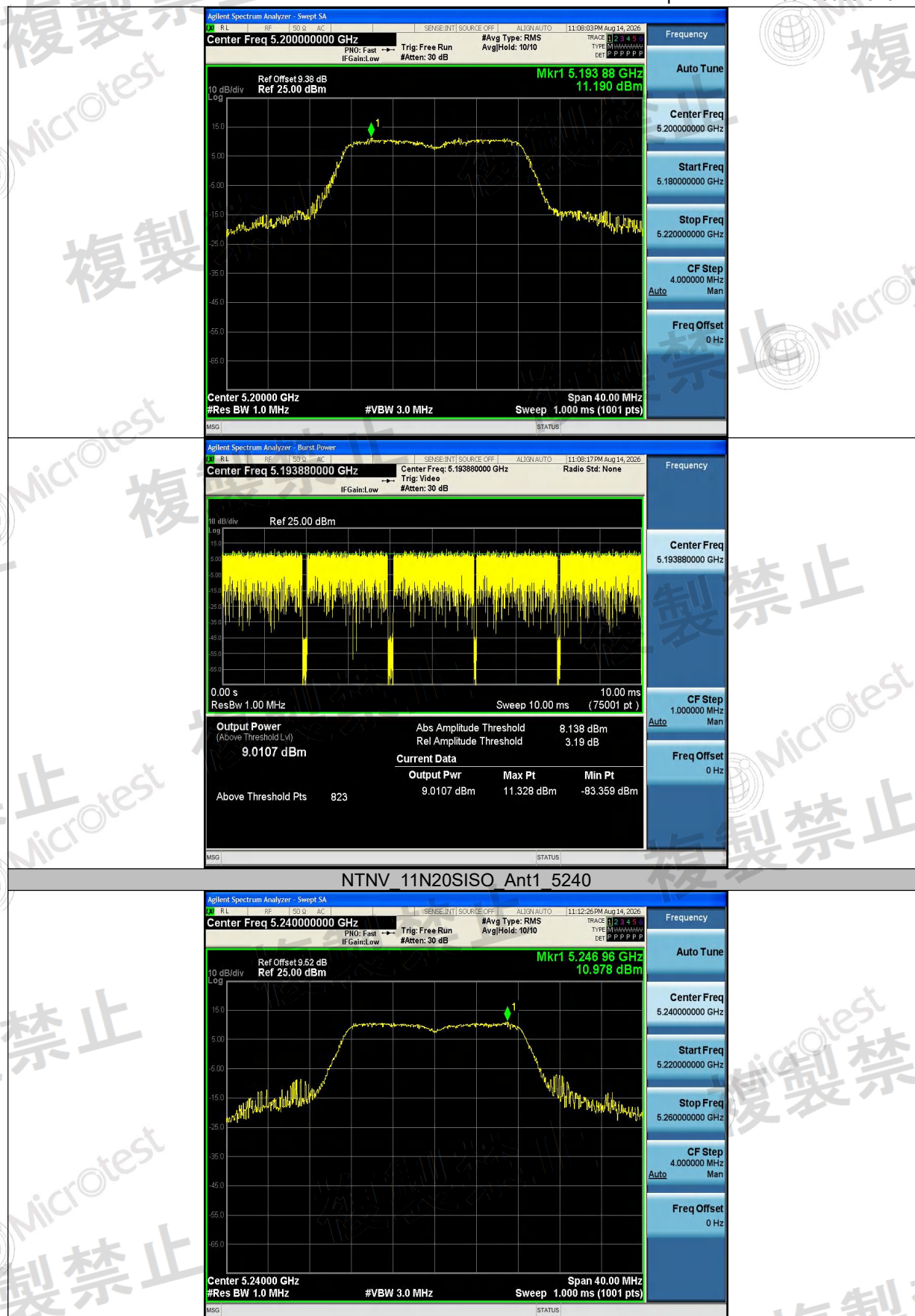
NTNV_11N20SISO Ant1 5180



NTNV_11N20SISO Ant1 5200

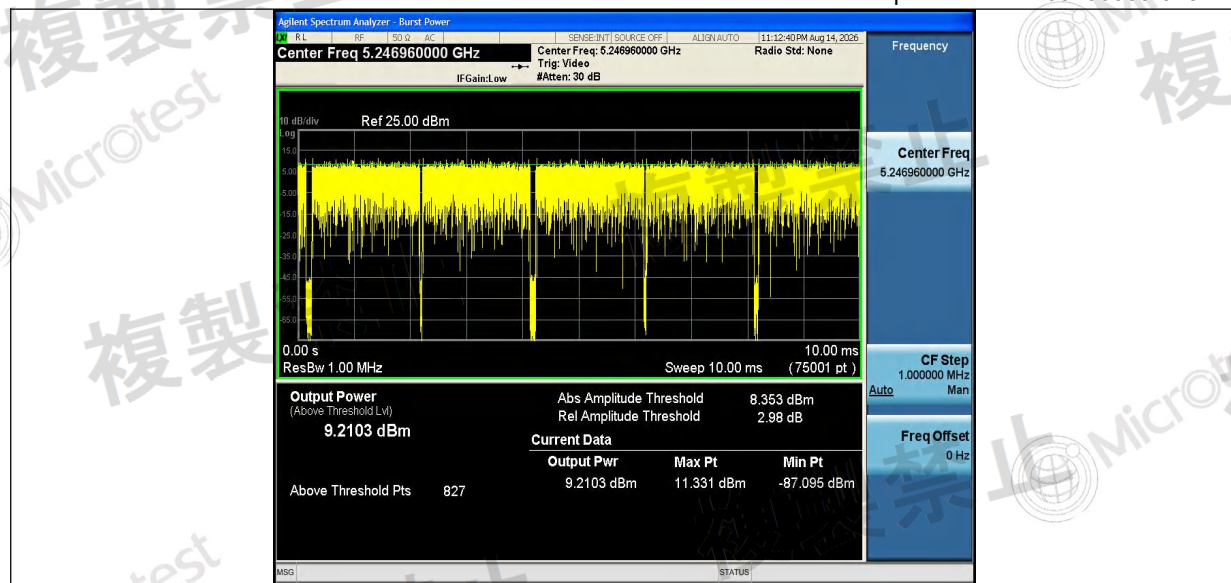
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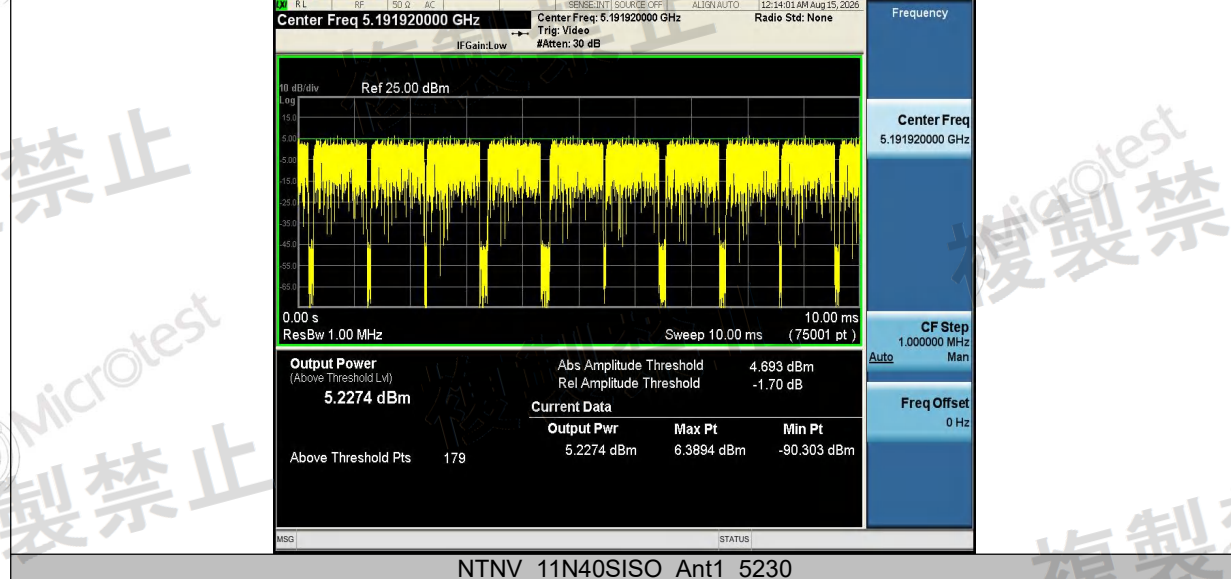
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NTNV_11N40SISO Ant1 5190



NTNV_11N40SISO Ant1 5230



NTNV_11N40SISO Ant1 5230

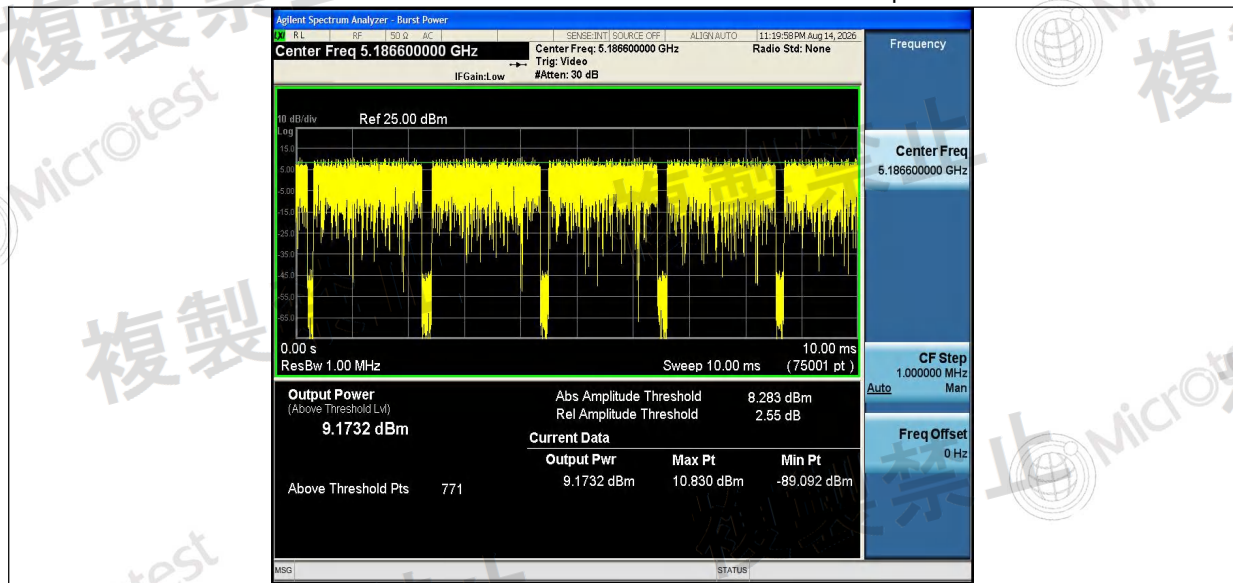
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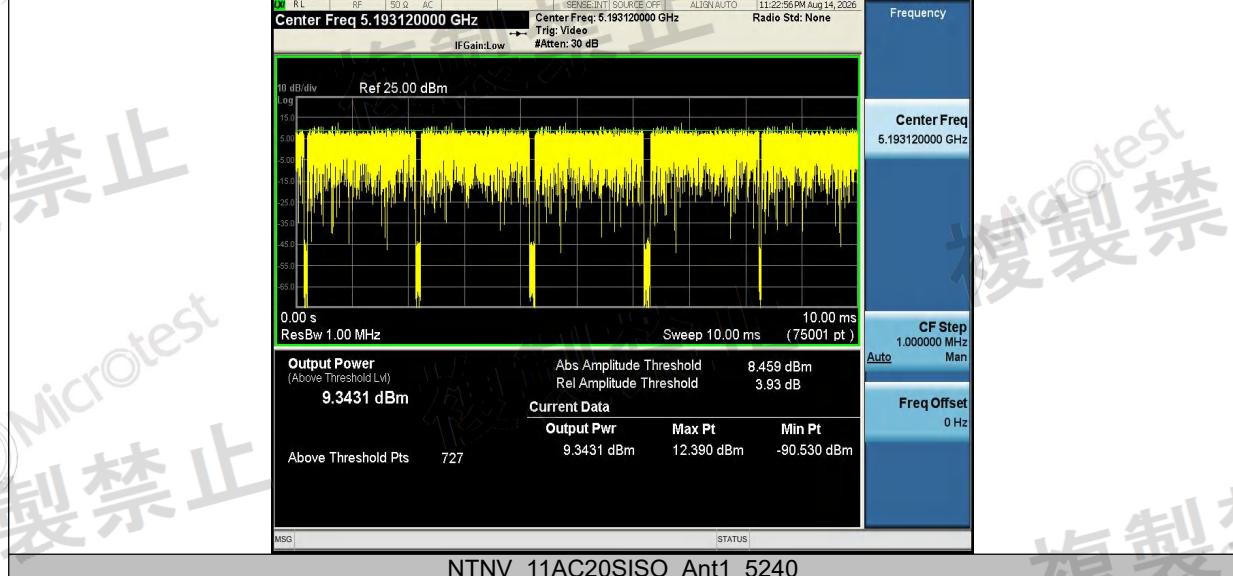
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NTNV_11AC20SISO_Ant1_5200



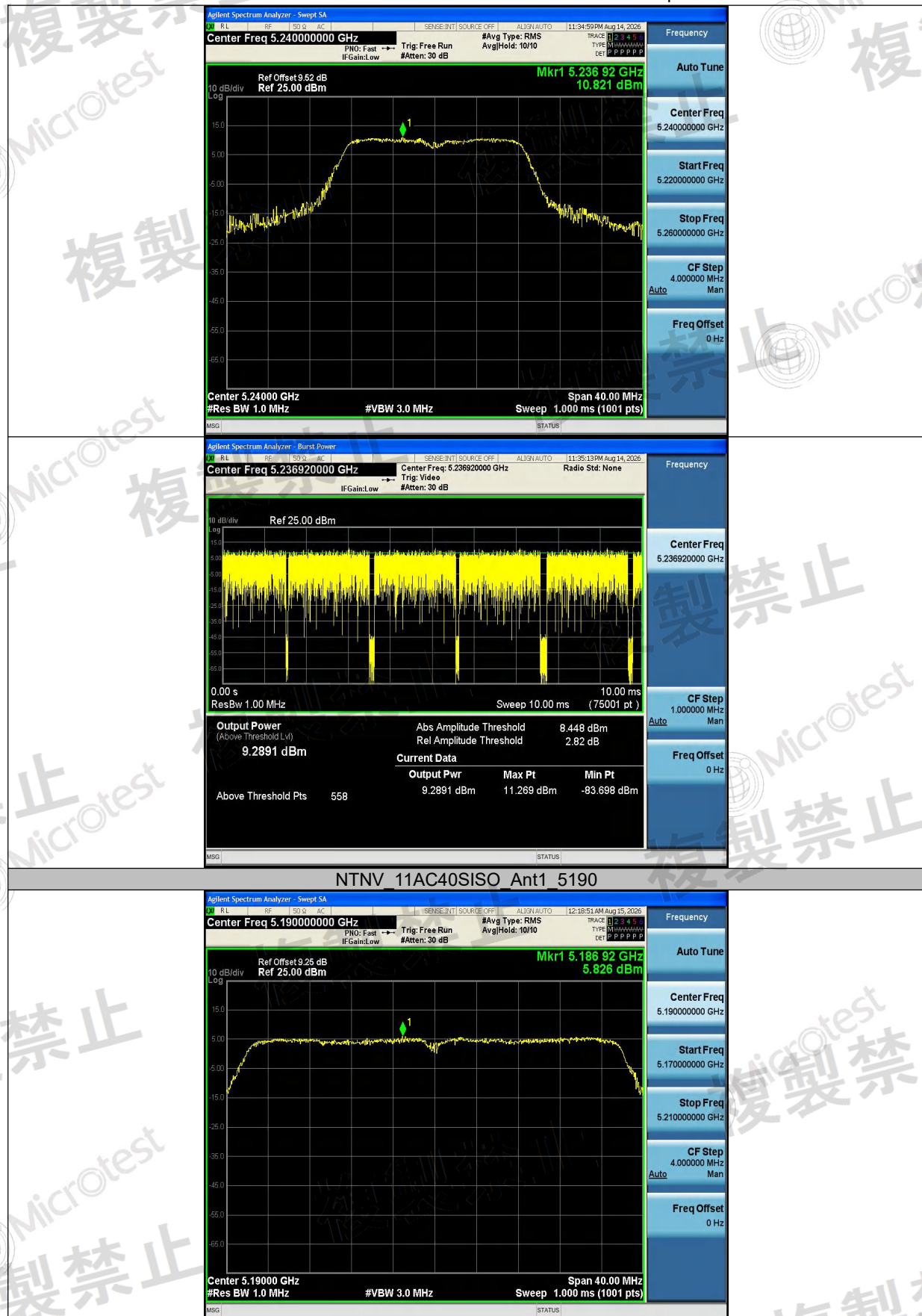
NTNV_11AC20SISO_Ant1_5240



NTNV_11AC20SISO_Ant1_5240

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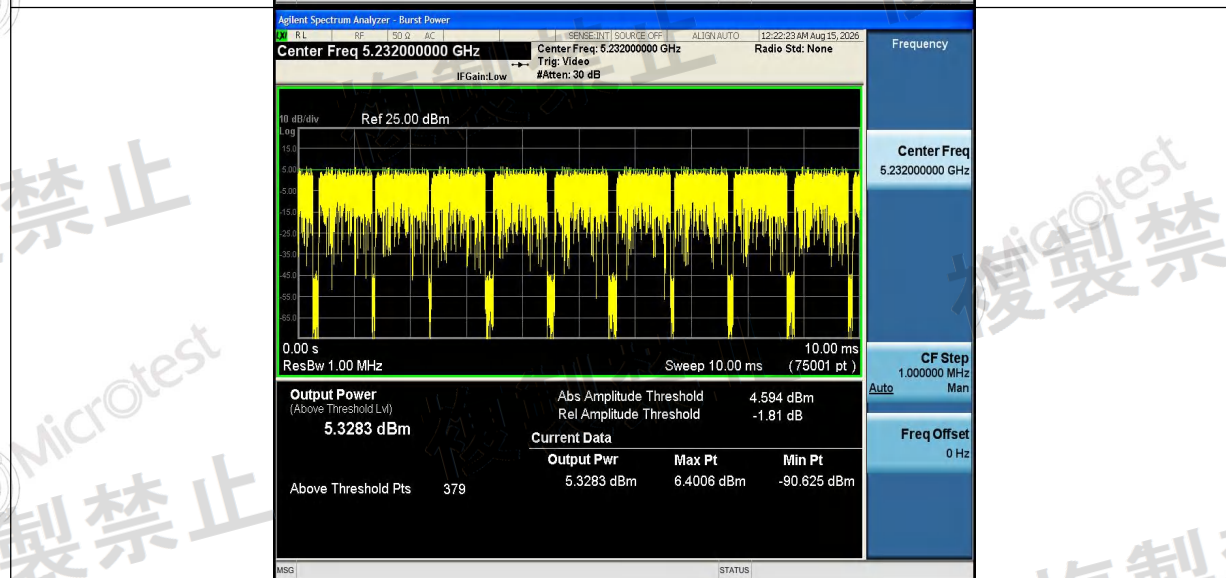


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NTNV_11AC40SISO_Ant1_5230



NTNV_11AC80SISO_Ant1_5210

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6.13 Appendix C: Occupied Bandwidth

6.13.1 Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	11A	Ant1	5180	16.716	≤20	PASS
			5200	16.702	≤20	PASS
			5240	16.701	≤20	PASS
	11N20SISO	Ant1	5180	17.694	≤20	PASS
			5200	17.711	≤20	PASS
			5240	17.690	≤20	PASS
	11N40SISO	Ant1	5190	36.140	≤40	PASS
			5230	36.070	≤40	PASS
			5180	17.709	≤20	PASS
	11AC20SISO	Ant1	5200	17.720	≤20	PASS
			5240	17.726	≤20	PASS
			5190	36.050	≤40	PASS
	11AC40SISO	Ant1	5230	36.053	≤40	PASS
			5210	75.097	≤80	PASS
			5210	75.097	≤80	PASS

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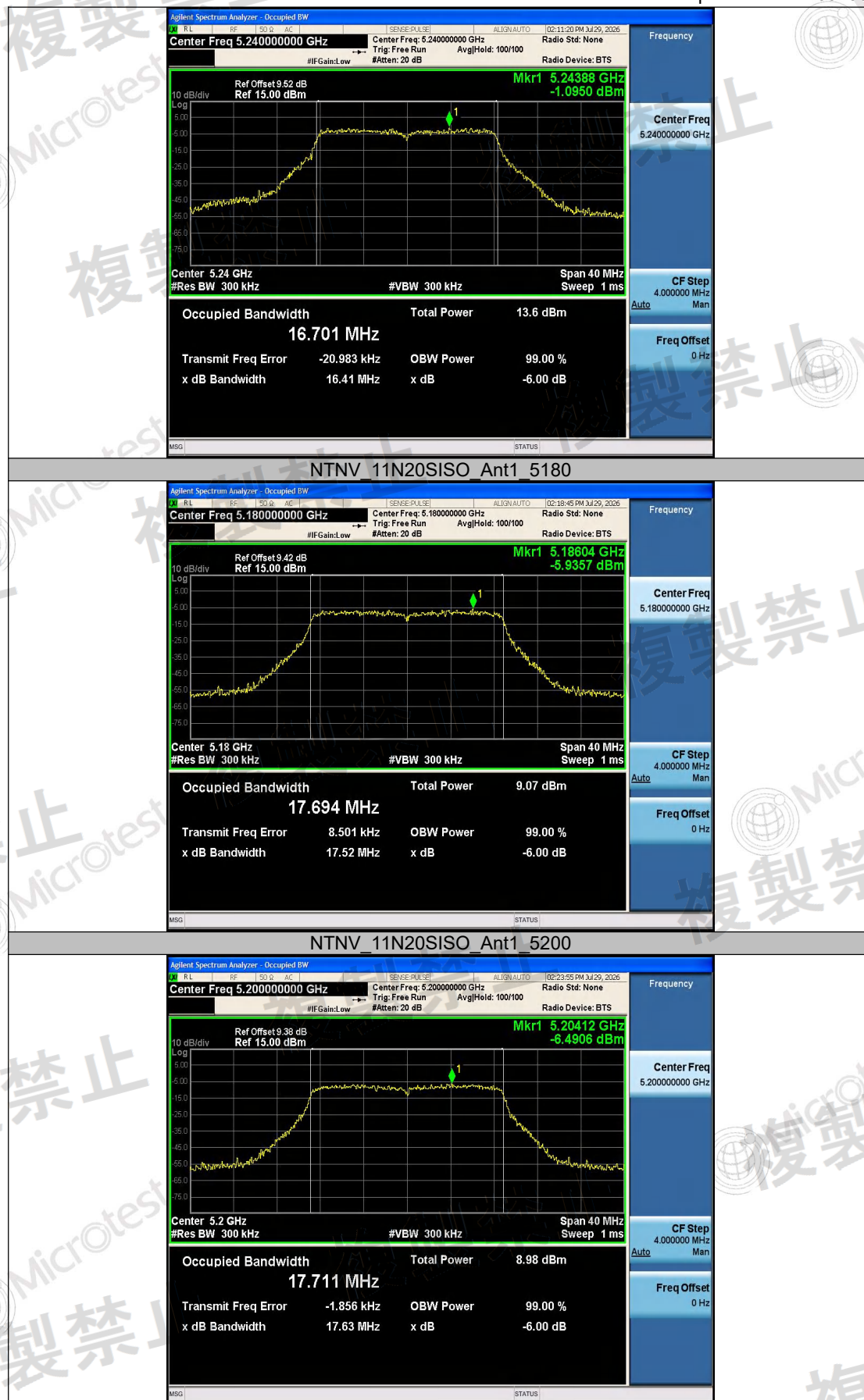
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6.13.2 Test Graphs



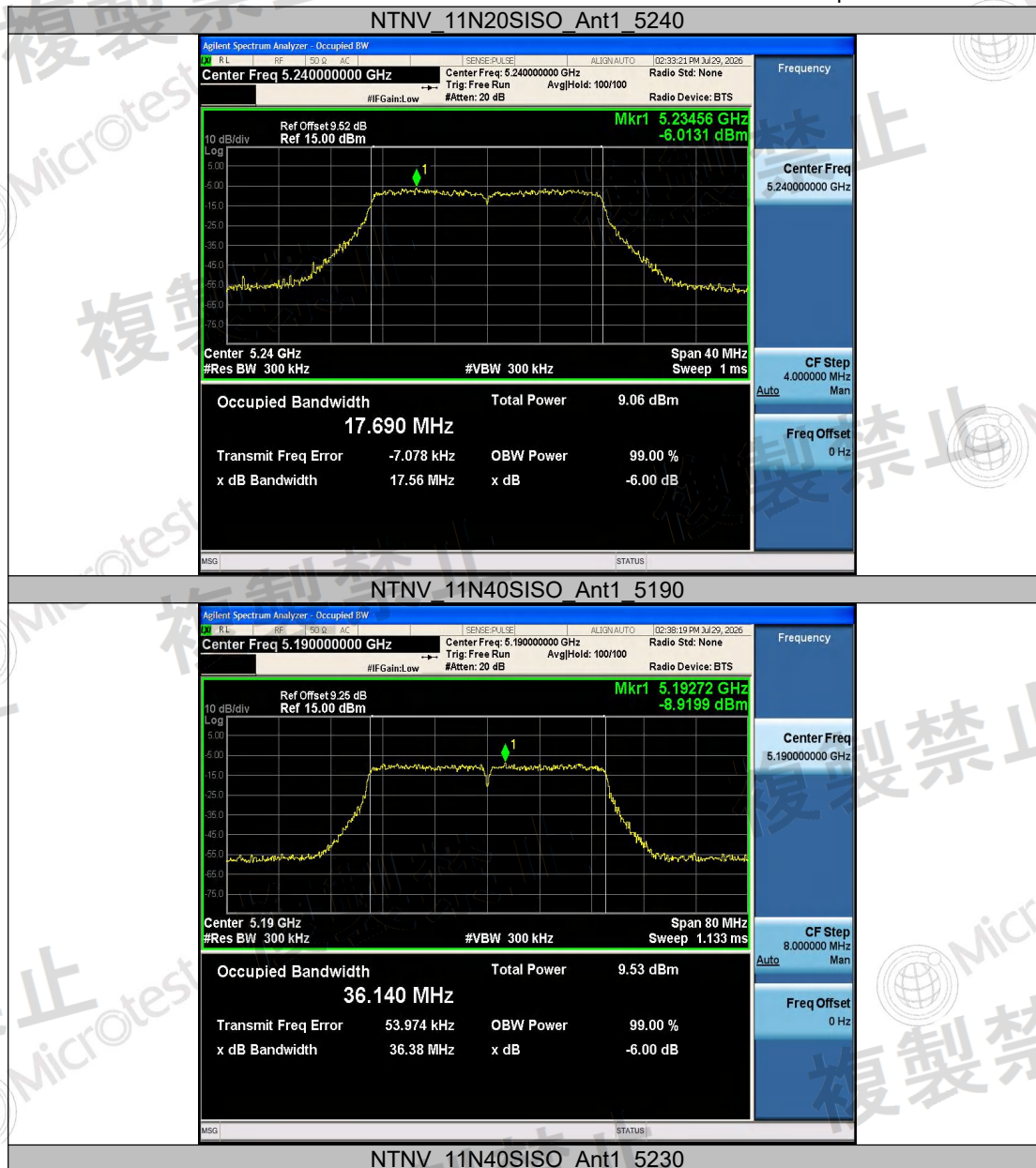
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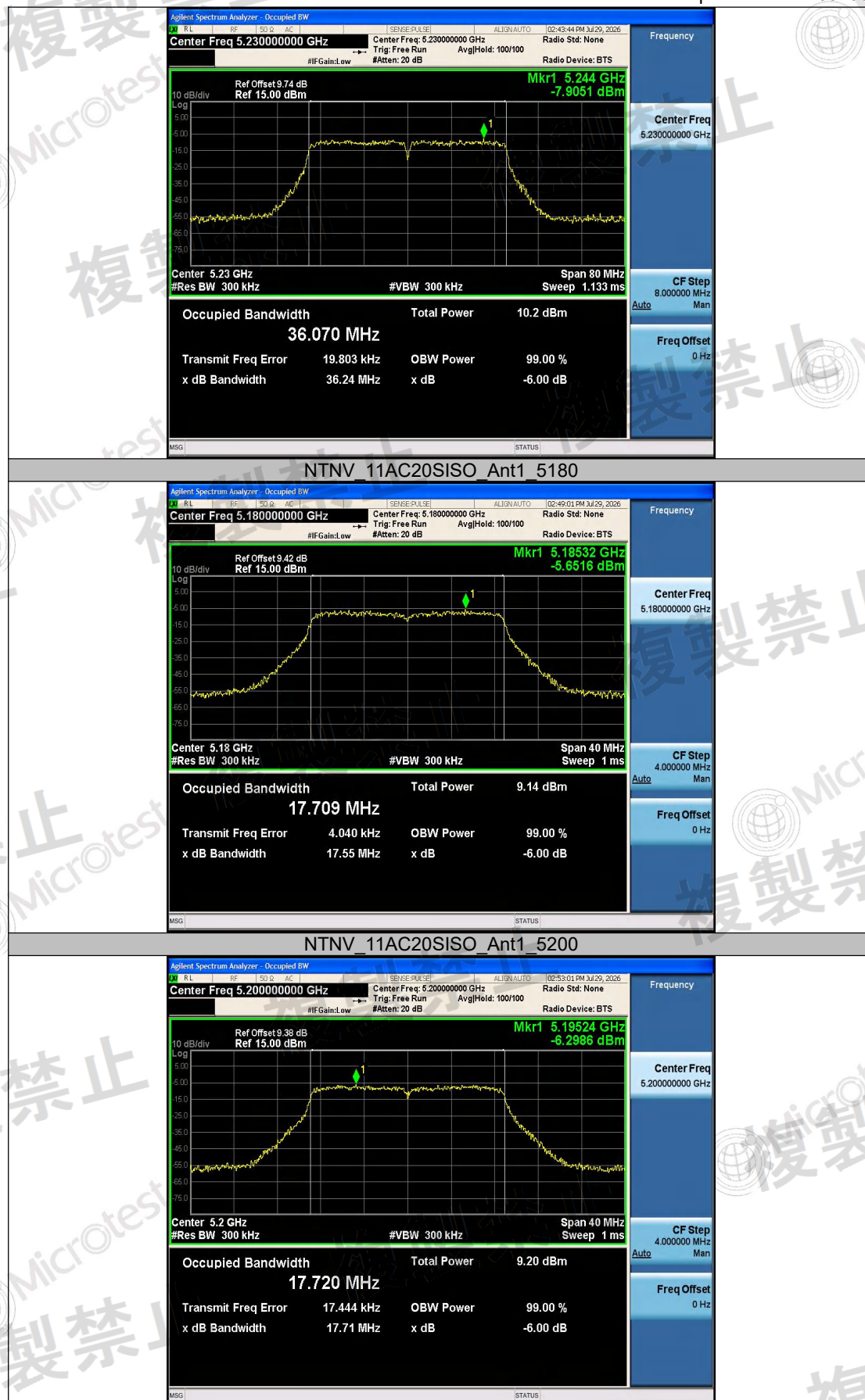
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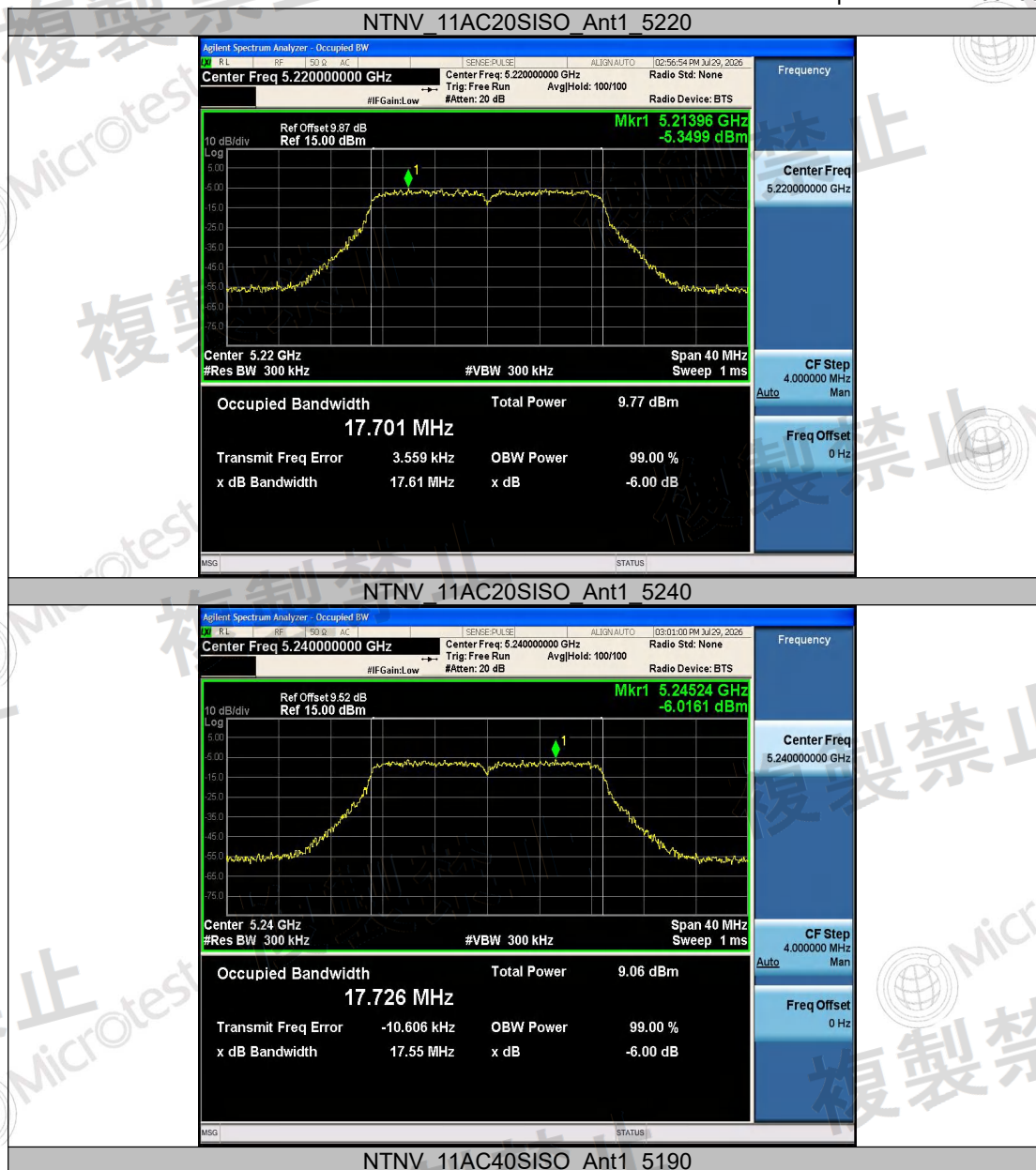
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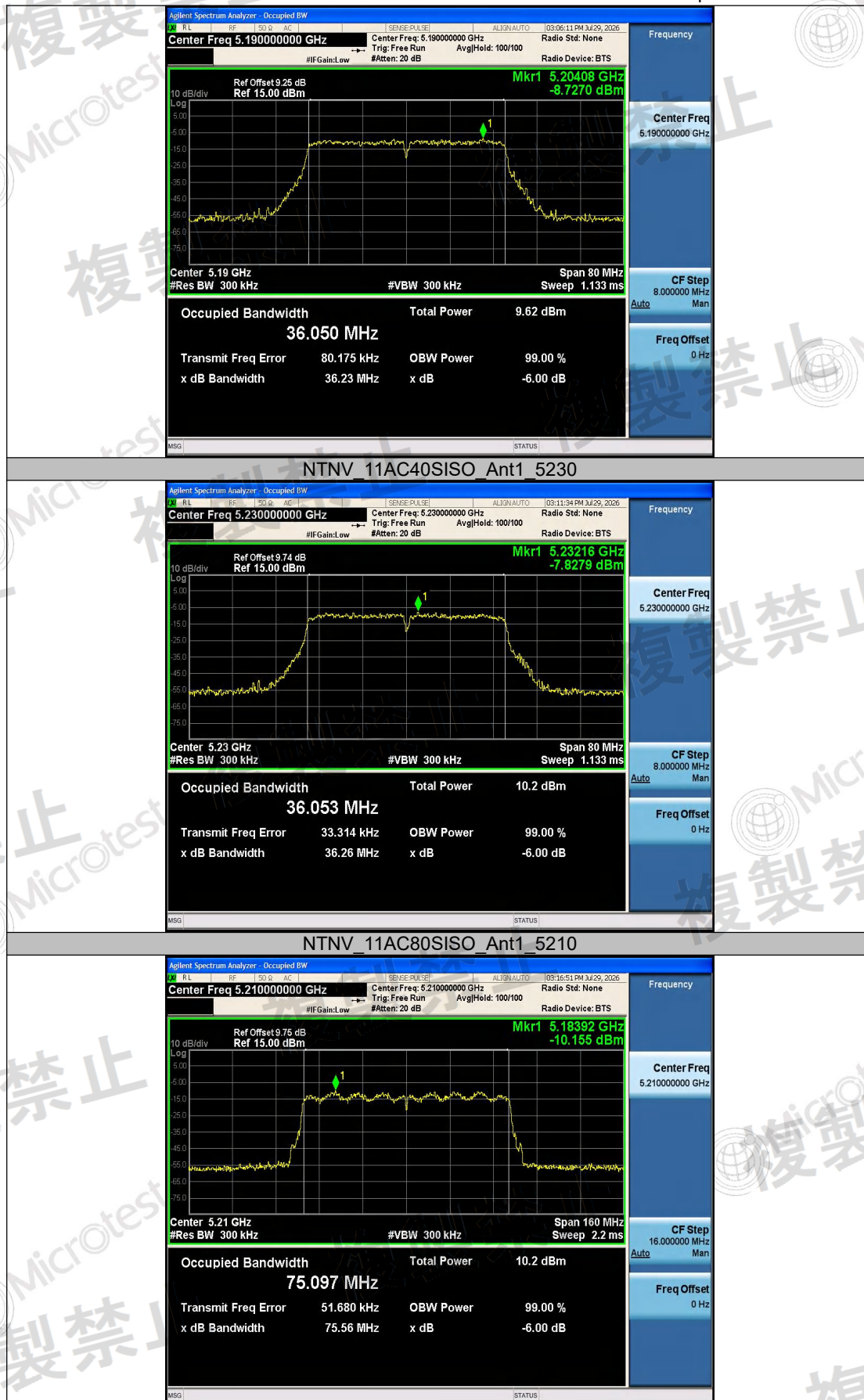
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6.14 Appendix D: Spread Bandwidth

6.14.1 Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	11A	Ant1	5180	14.719	≥ 0.5	PASS
			5200	14.826	≥ 0.5	PASS
			5240	14.783	≥ 0.5	PASS
	11N20SI SO	Ant1	5180	15.531	≥ 0.5	PASS
			5200	15.615	≥ 0.5	PASS
			5220	15.514	≥ 0.5	PASS
	11N40SI SO	Ant1	5240	15.613	≥ 0.5	PASS
			5190	32.078	≥ 0.5	PASS
			5230	32.142	≥ 0.5	PASS
	11AC20S ISO	Ant1	5180	15.737	≥ 0.5	PASS
			5200	15.544	≥ 0.5	PASS
			5220	15.632	≥ 0.5	PASS
	11AC40S ISO	Ant1	5240	15.529	≥ 0.5	PASS
			5190	32.236	≥ 0.5	PASS
			5230	32.167	≥ 0.5	PASS
	11AC80S ISO	Ant1	5210	67.568	≥ 0.5	PASS

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