



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: LED Controller

Test Model: DeepLux-C003

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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A.1 -6dB Bandwidth

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.854	≥ 0.5	Pass
		2440	1	0.771	≥ 0.5	Pass
		2480	1	0.746	≥ 0.5	Pass



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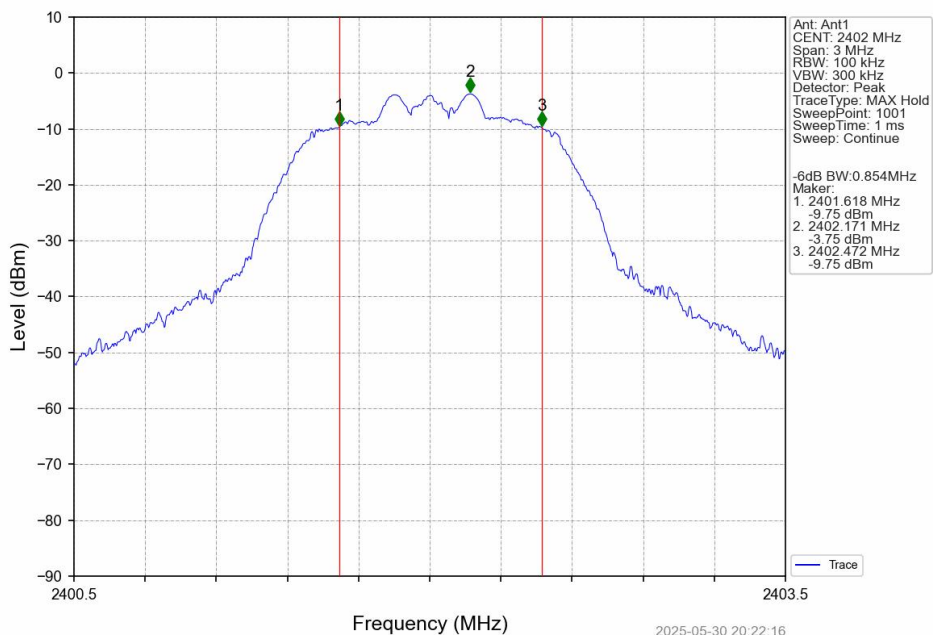
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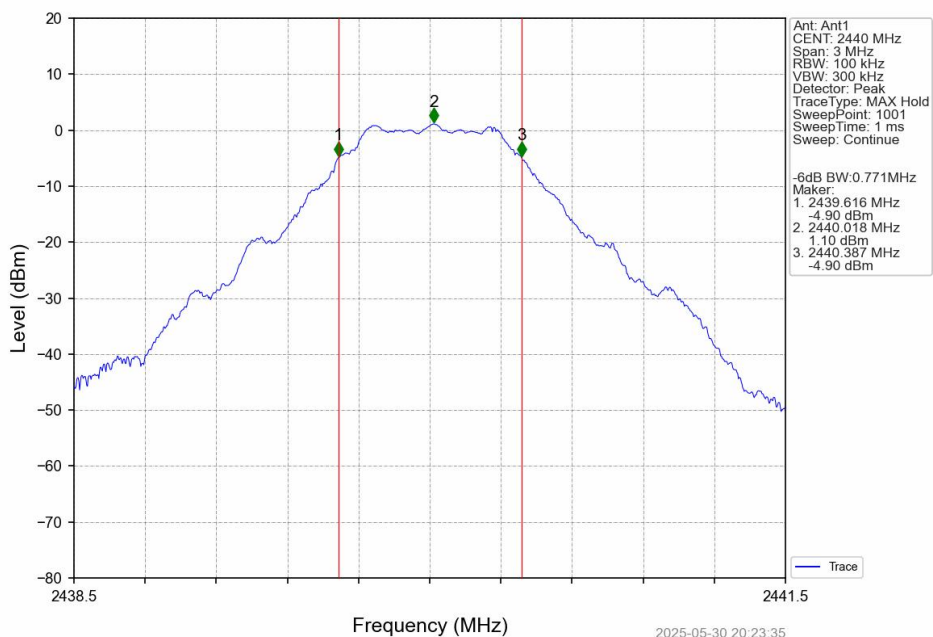
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1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

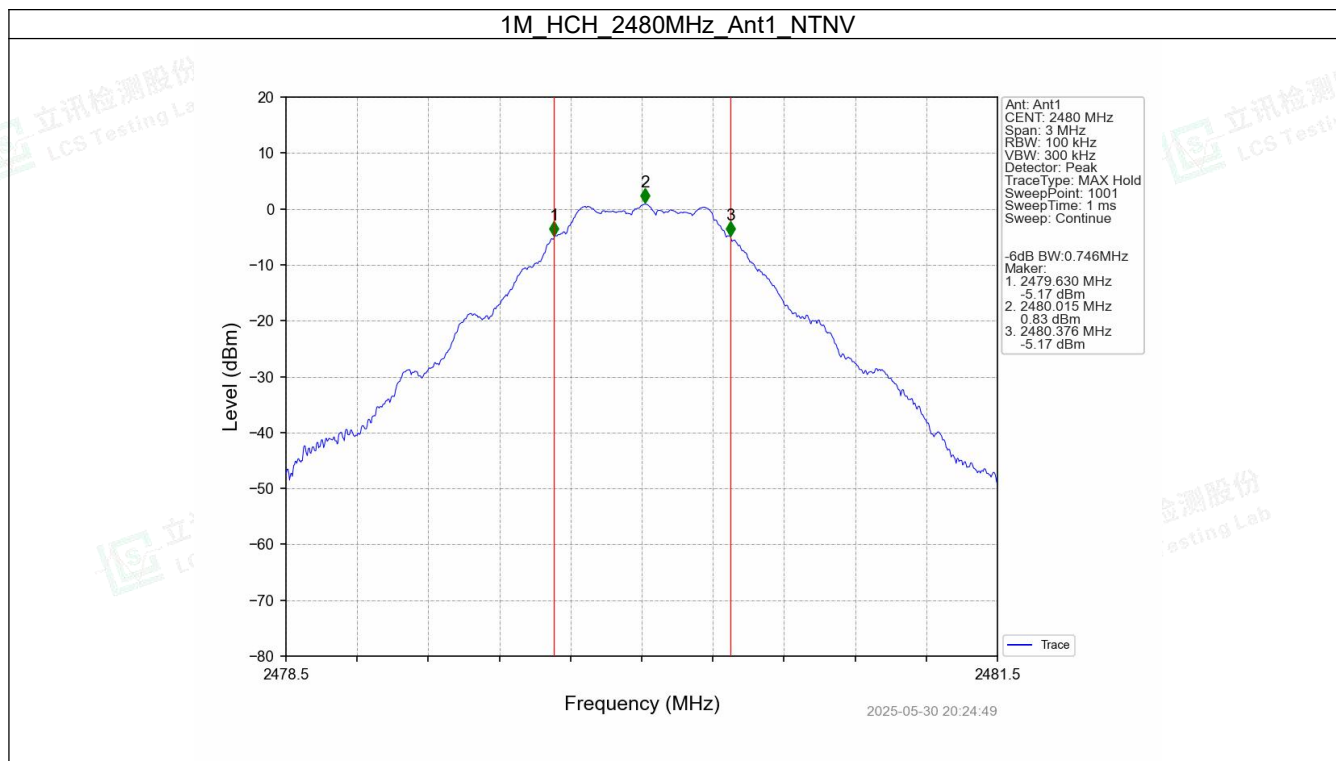


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A.2 Maximum Peak Conducted Output Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-3.06	<=30	Pass
		2440	1.61	<=30	Pass
		2480	1.31	<=30	Pass



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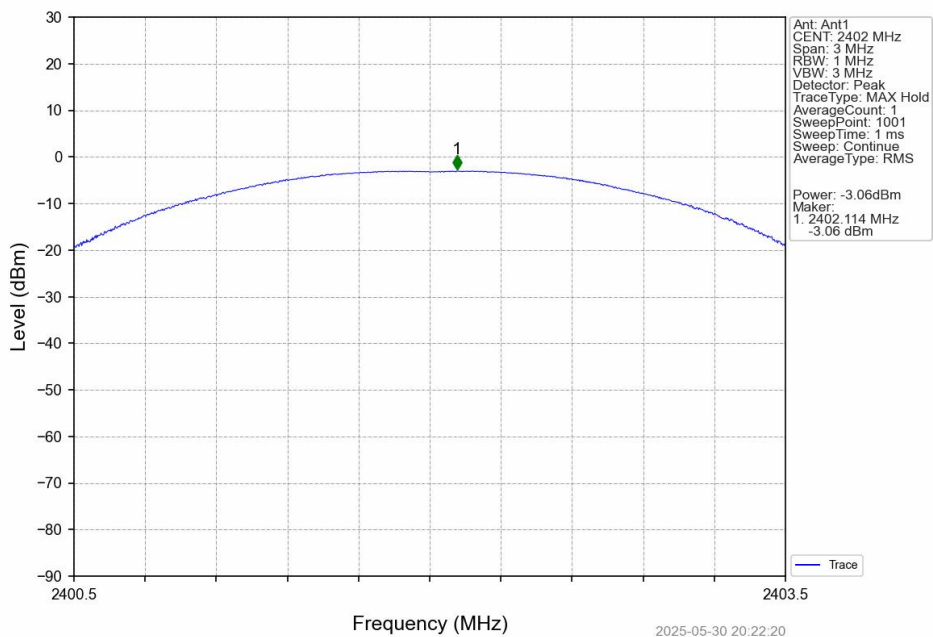
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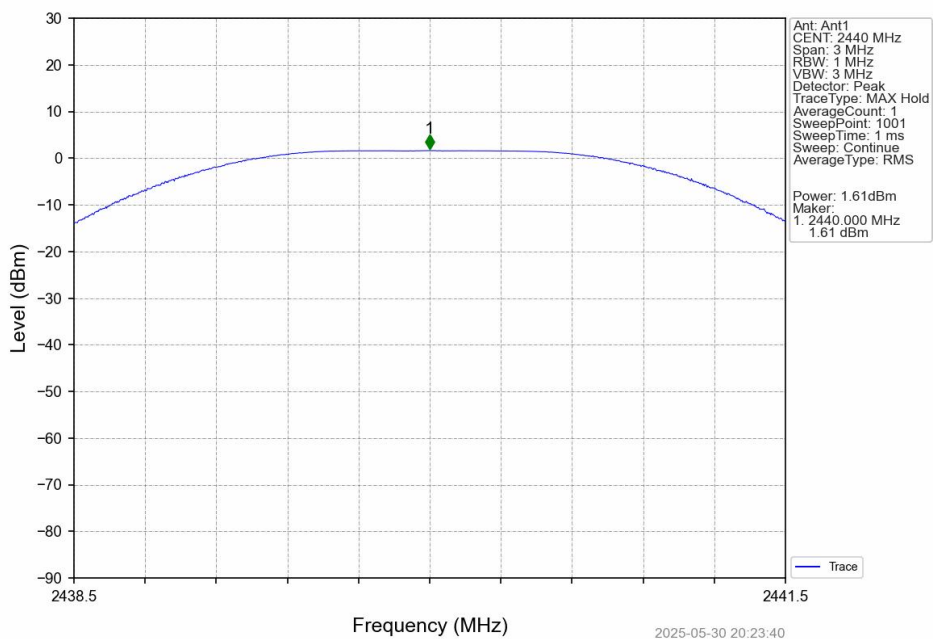
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1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

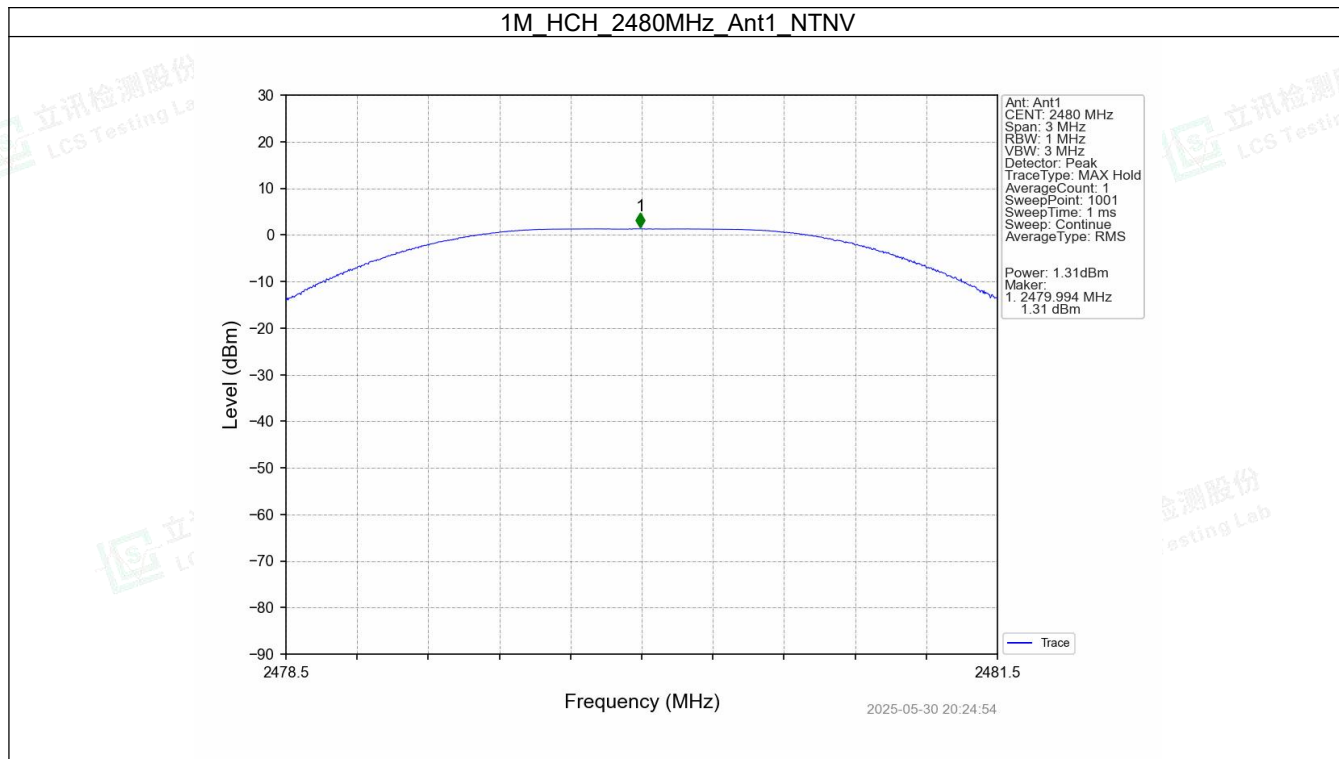


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A.3 Maximum Power Spectral Density

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-17.76	<=8	Pass
		2440	-13.31	<=8	Pass
		2480	-13.84	<=8	Pass



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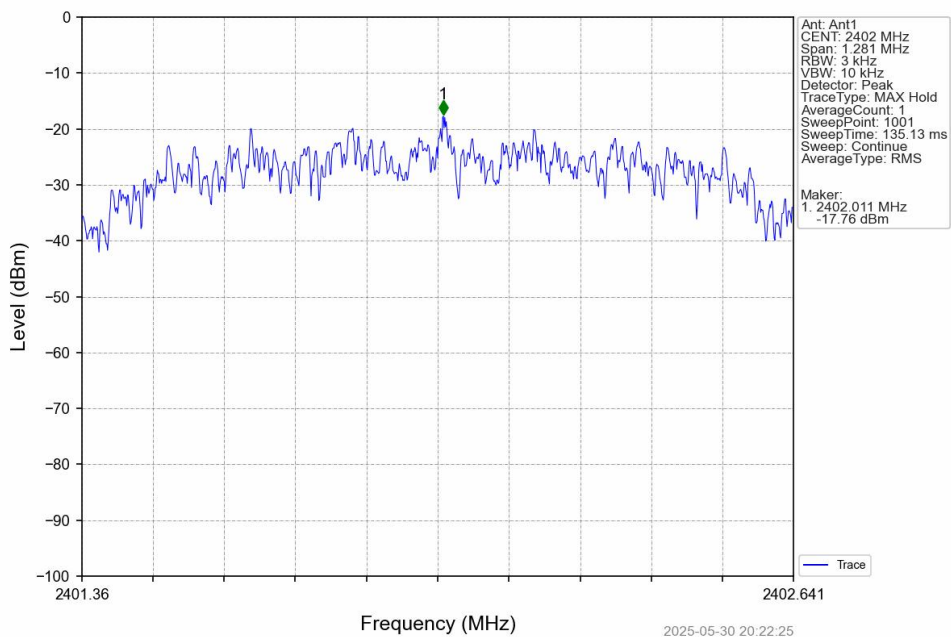
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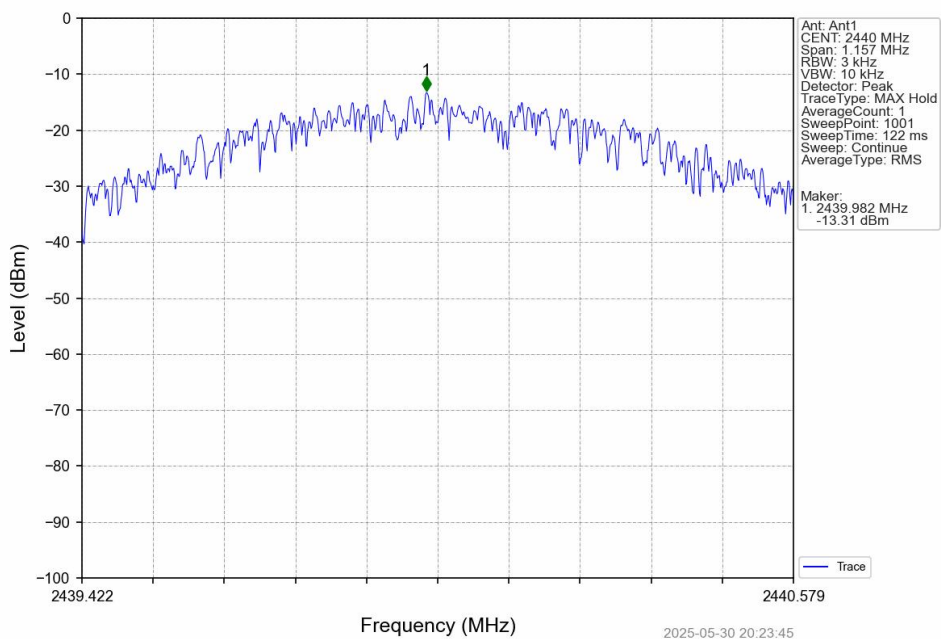
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1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

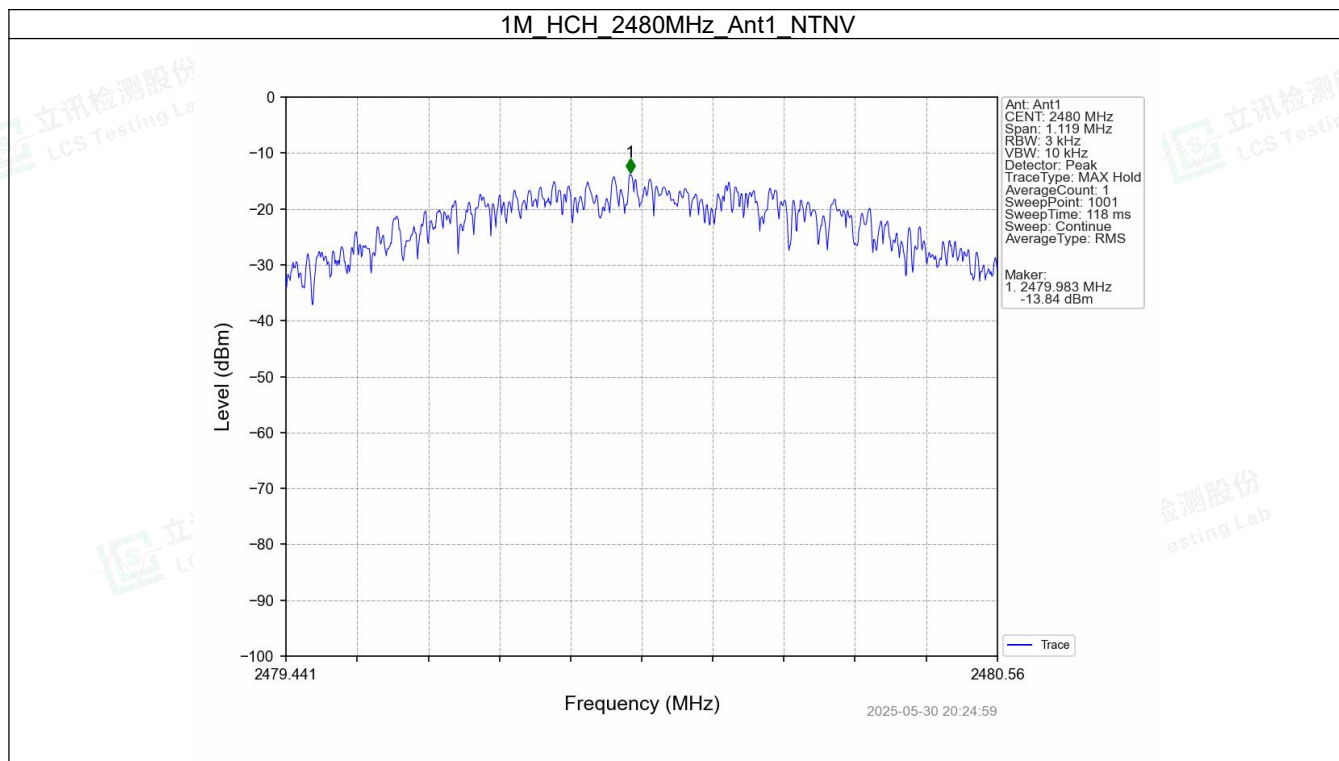


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A.4 Band Edge

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-3.76	-23.76	Pass
		2440	1	1.06	-18.94	Pass
		2480	1	0.80	-19.20	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.						



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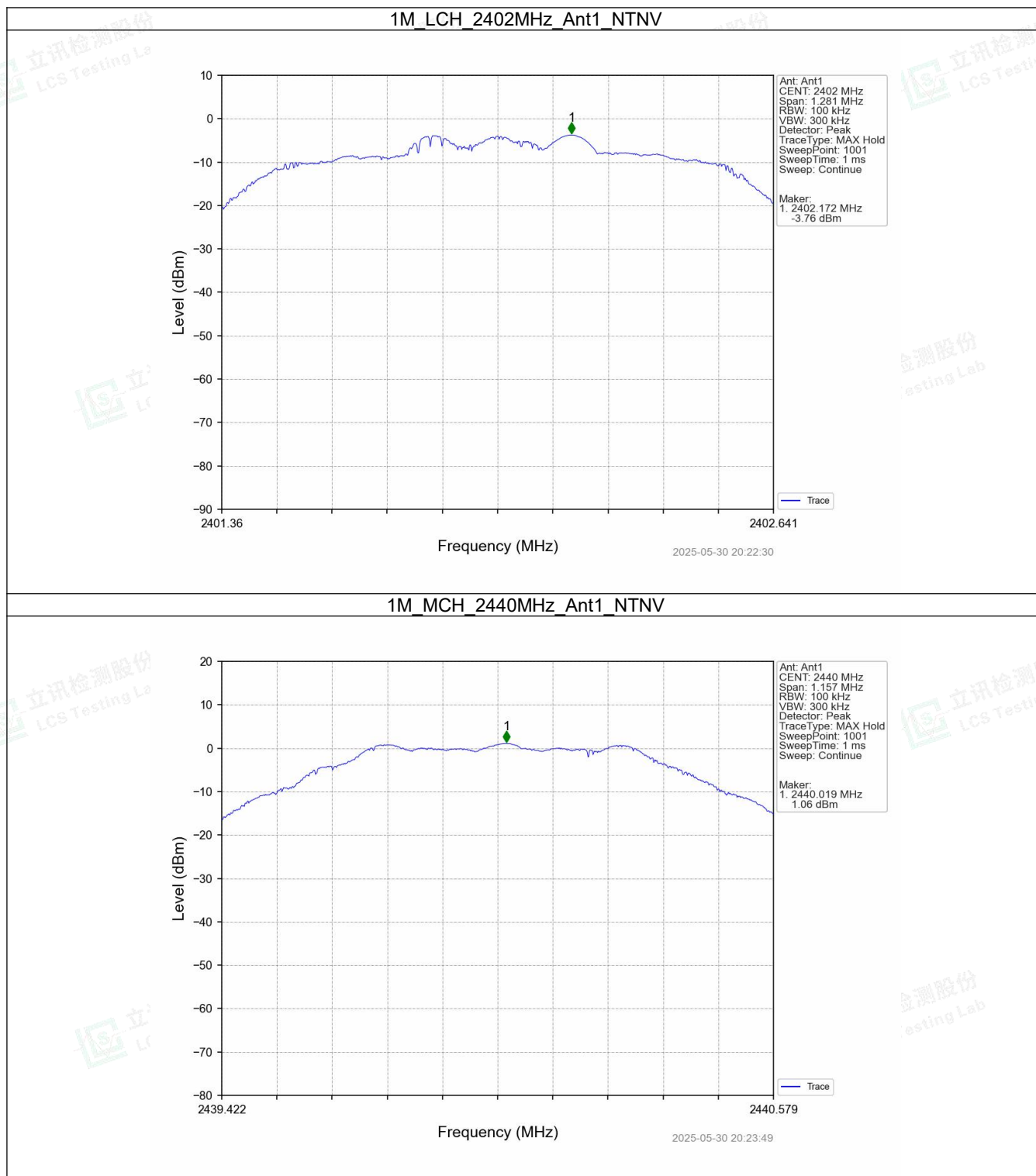
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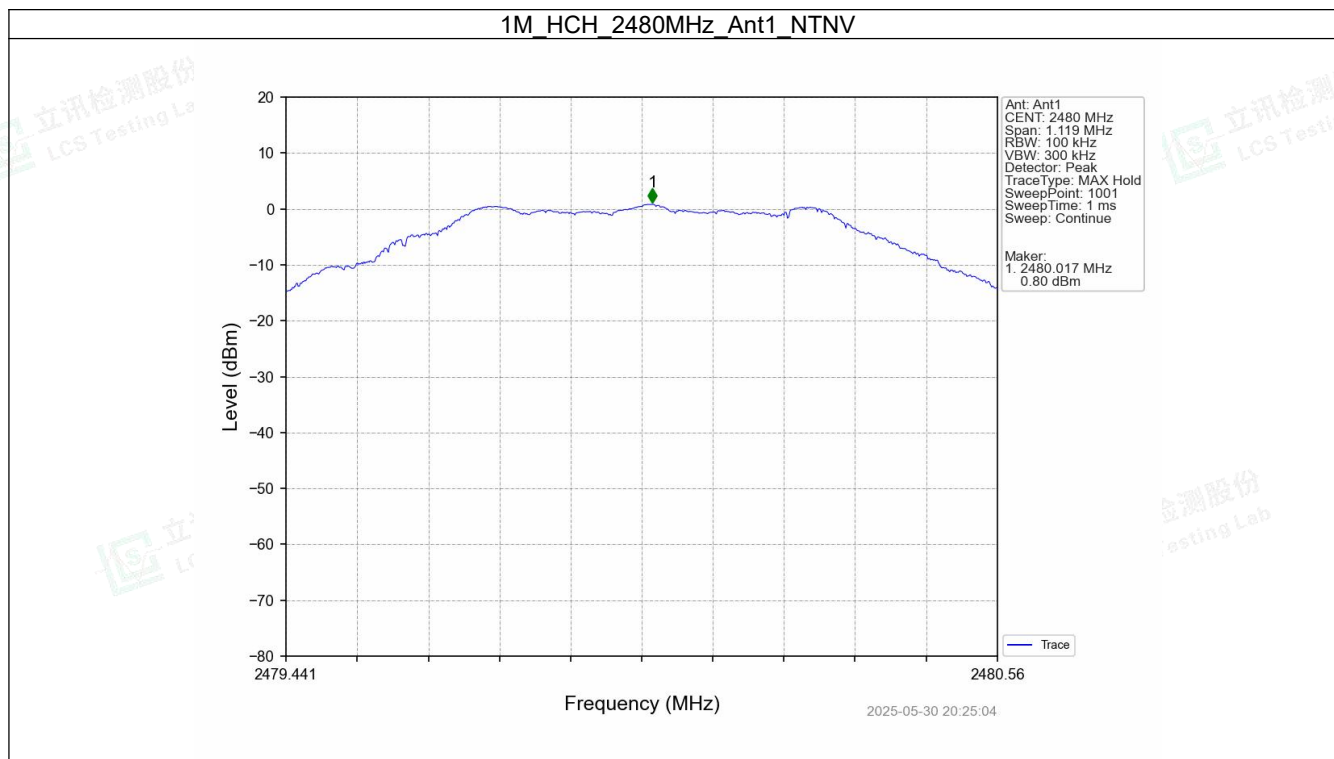


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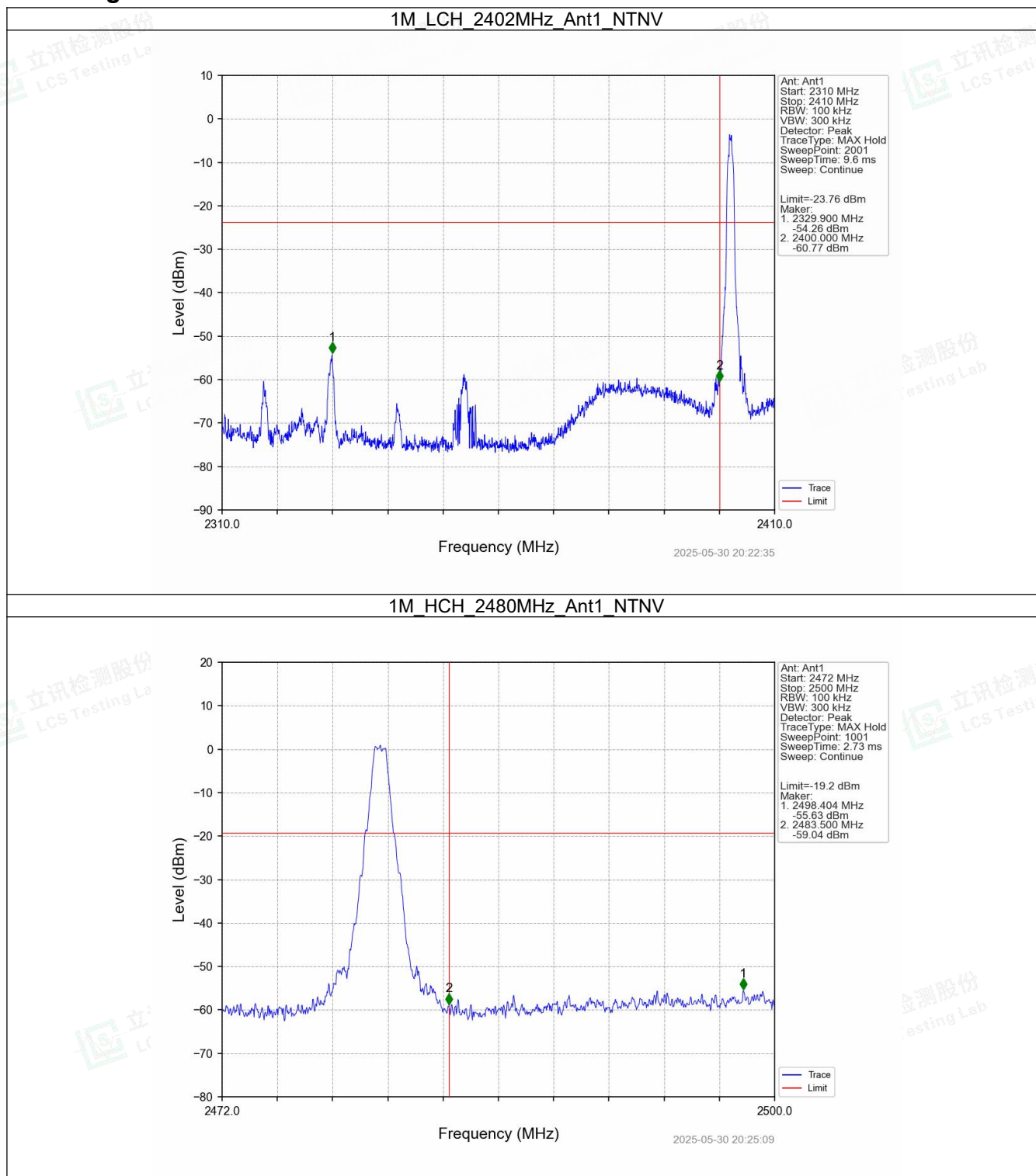
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Band Edge



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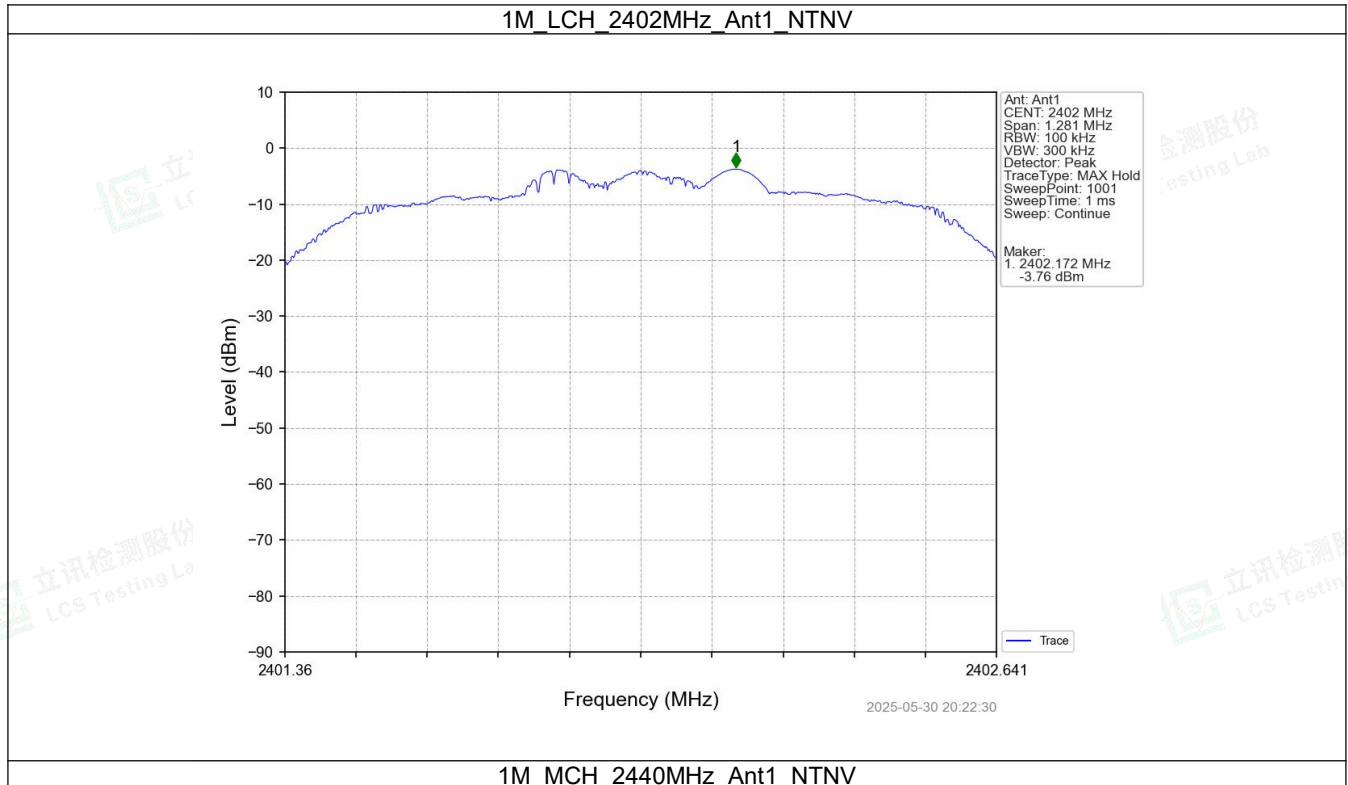


A.5 Conducted RF Spurious Emission

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-3.76
		2440	1	1.06
		2480	1	0.80

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Ref

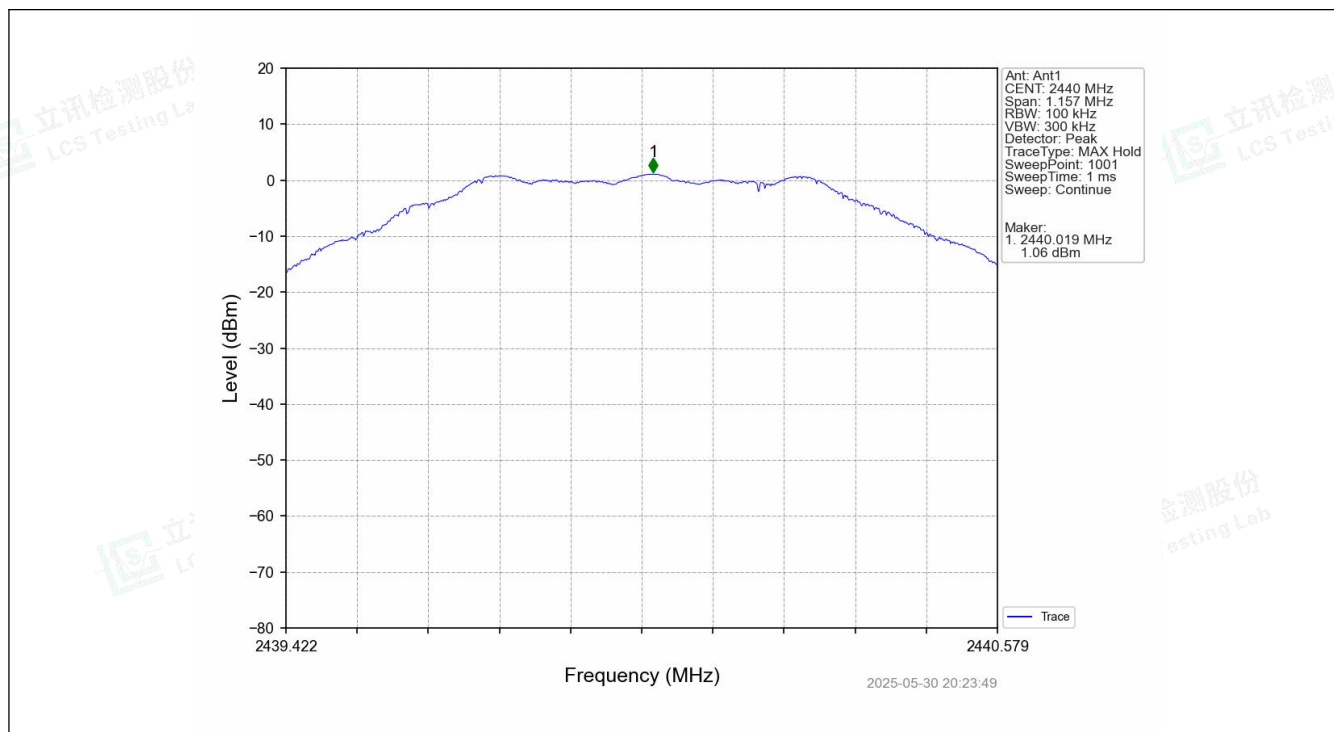


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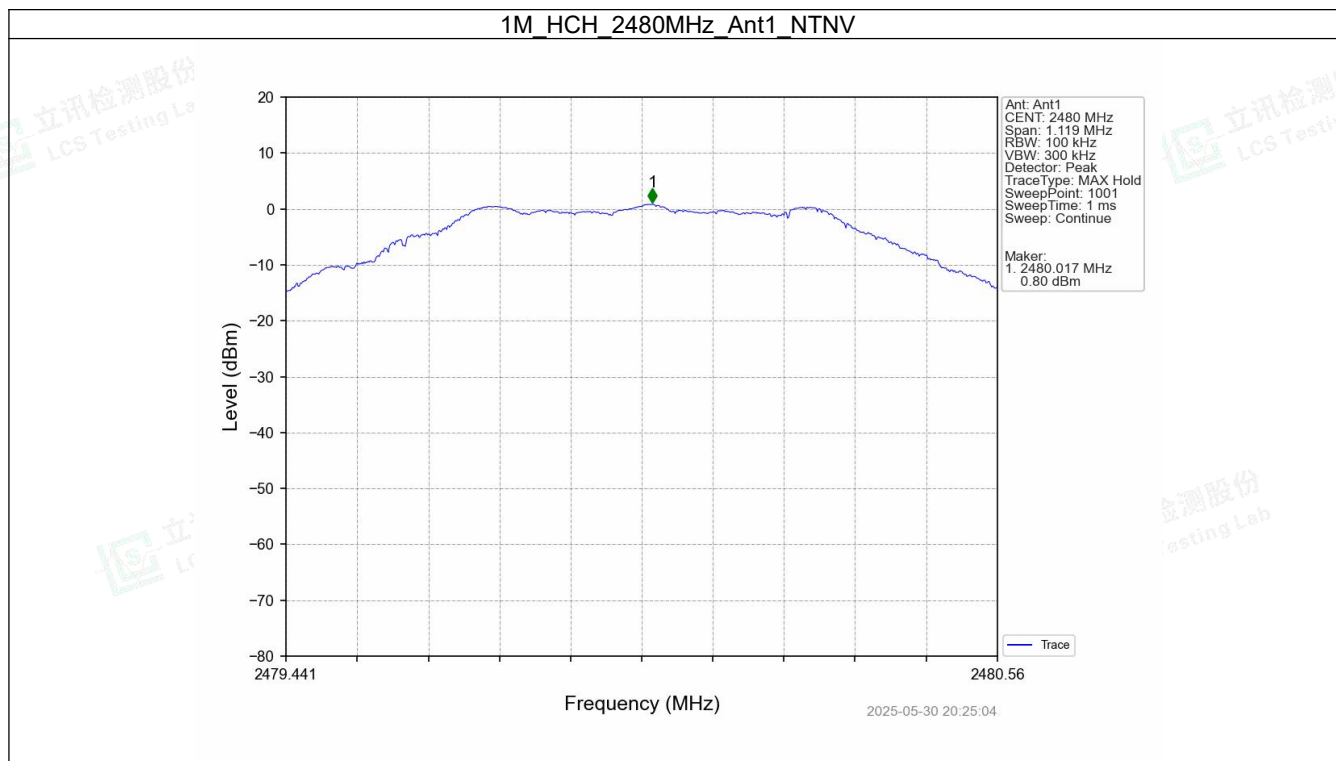


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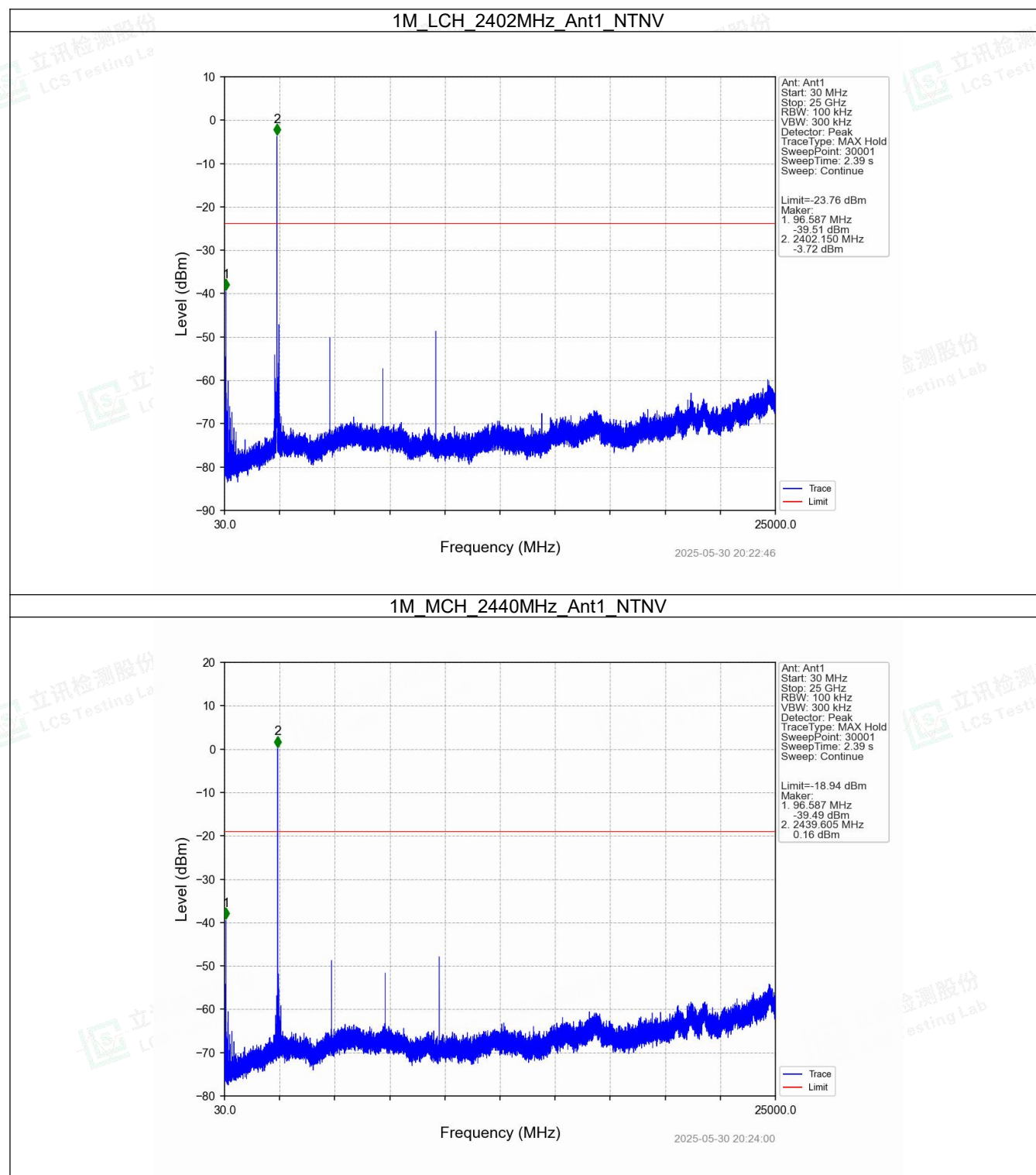
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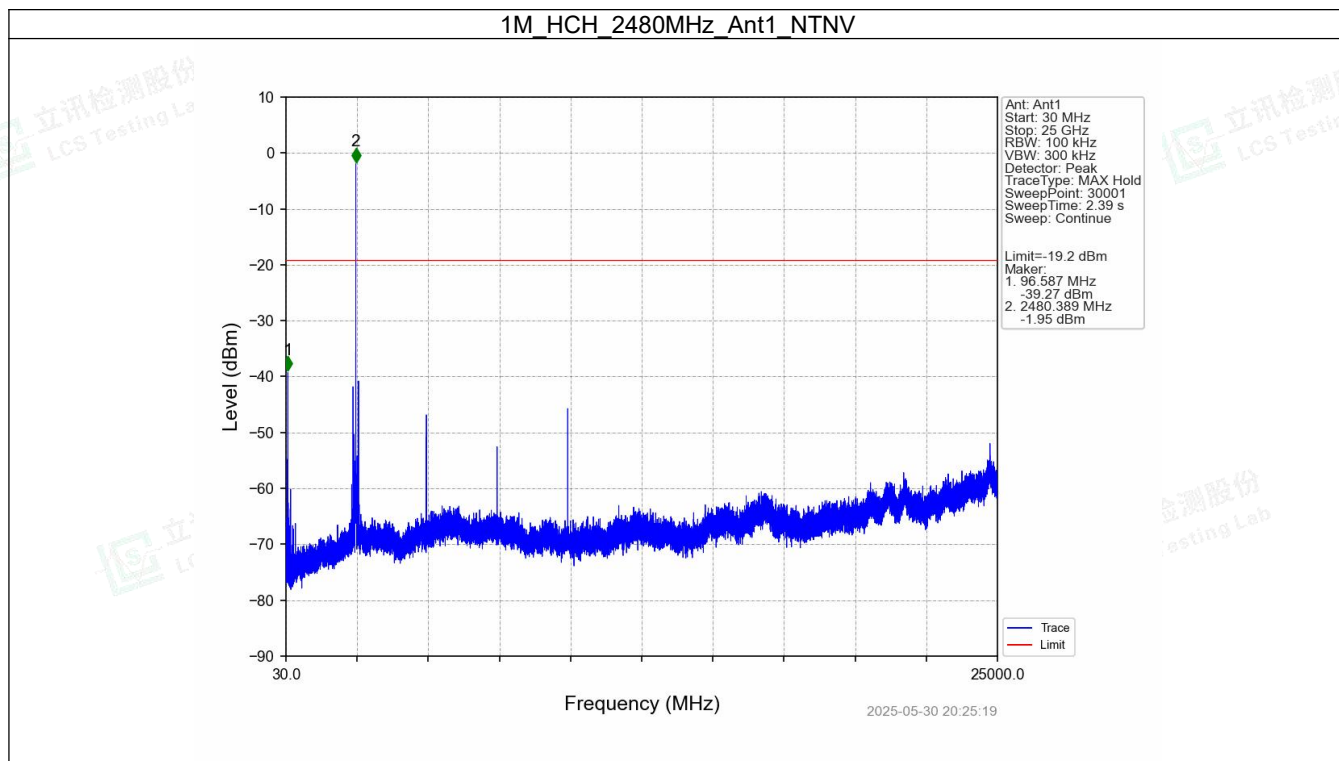


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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	72.01	1.43	0.74
NVNT	BLE 1M	2480	Ant1	72.03	1.42	0.74

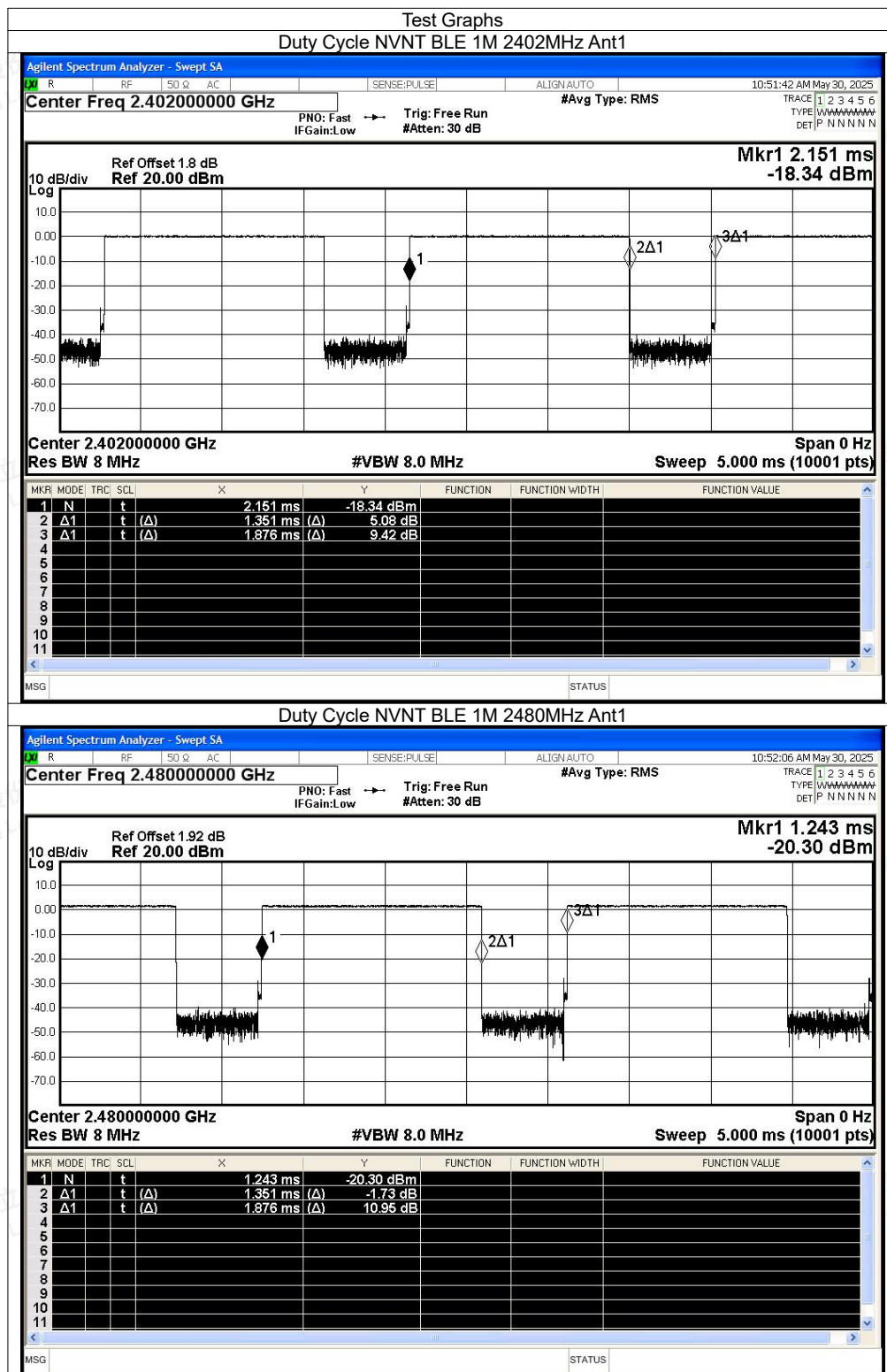


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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.57	2	-	45.69	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-59.11	2	1.43	39.58	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2360.88	-47.93	2	-	49.33	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2387.856	-58.19	2	1.43	40.5	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-51.44	2	-	45.82	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.82	2	1.43	39.87	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-45.42	2	-	51.84	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.59	2	1.42	41.09	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.752	-42.68	2	-	54.58	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.584	-57.21	2	1.42	41.47	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.68	2	-	47.58	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.4	2	1.42	40.28	Average	54	Pass

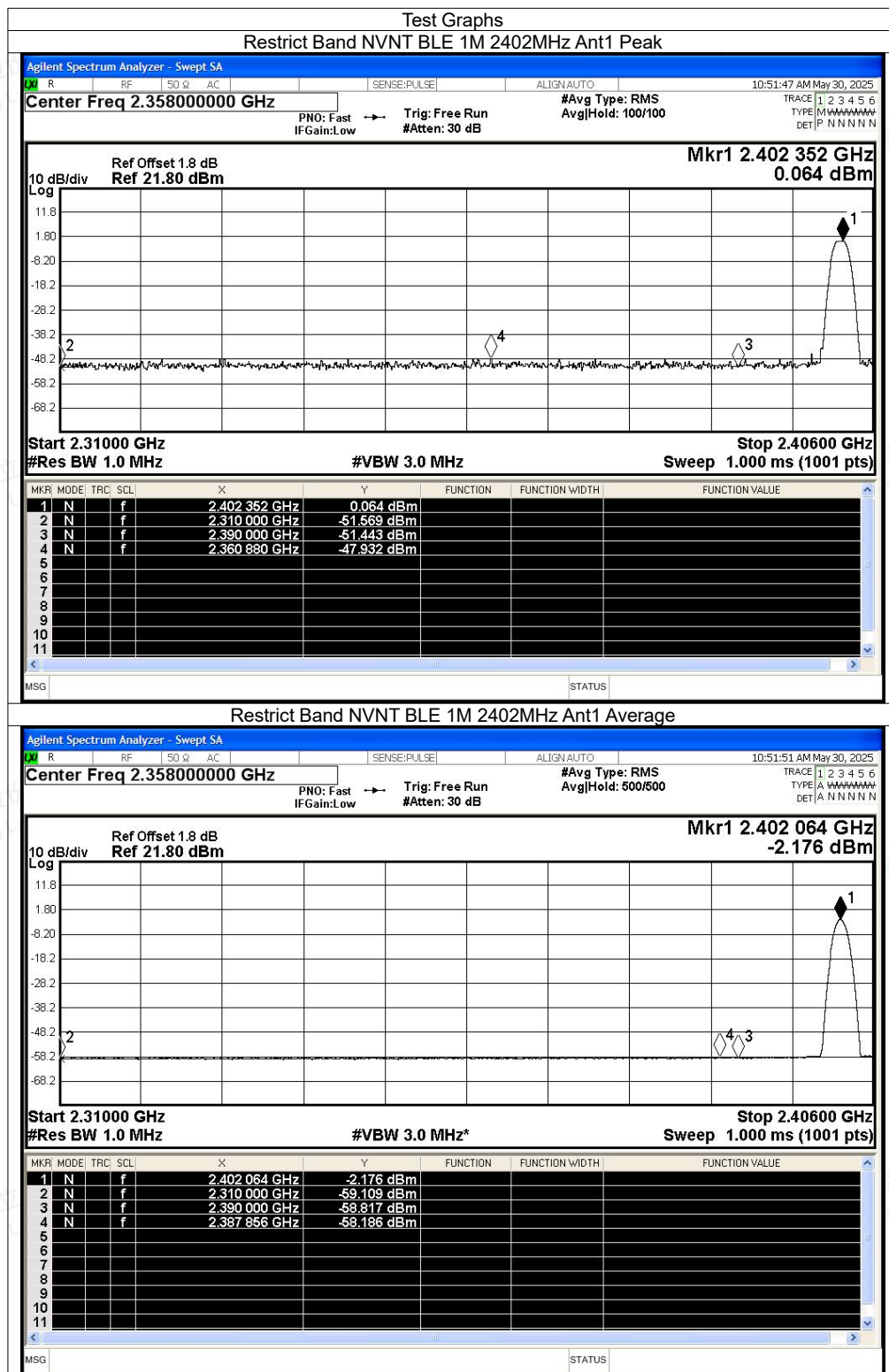


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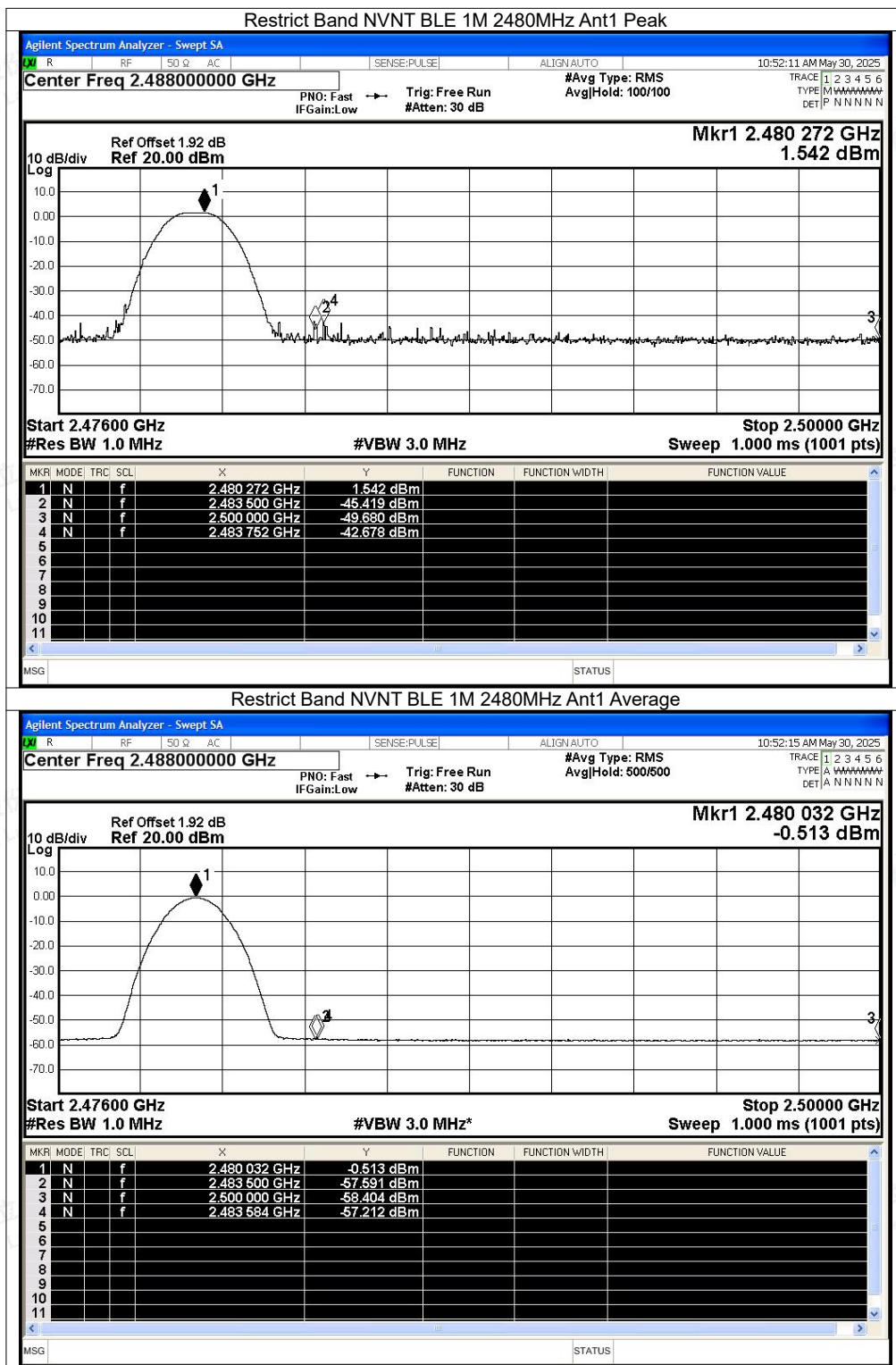


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