

Appendix Test Data

Report No.:	18220WC10109302	Test Date:	2021.7.9
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.3%
Pressure:	1012 hPa		

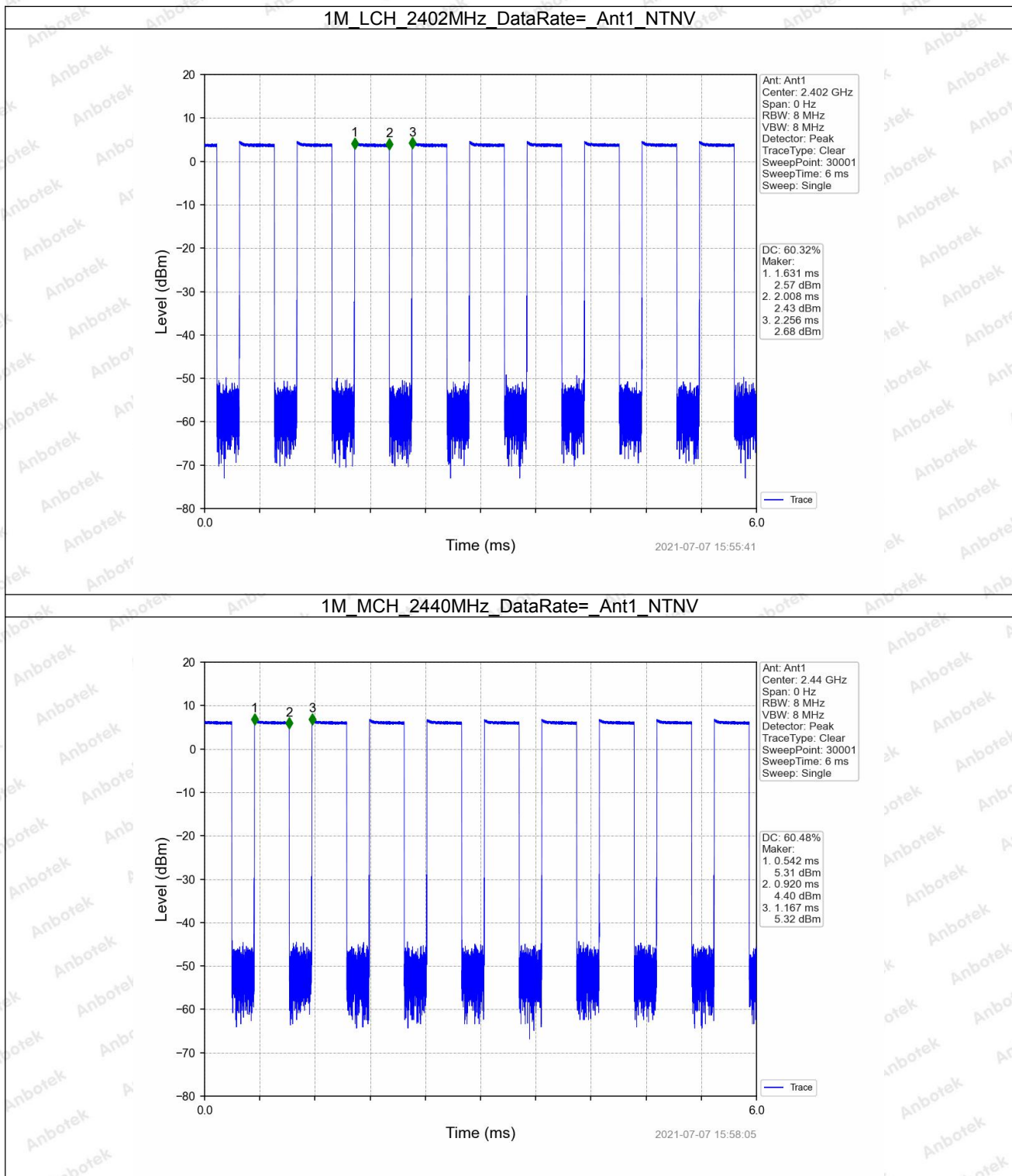
1. Duty Cycle

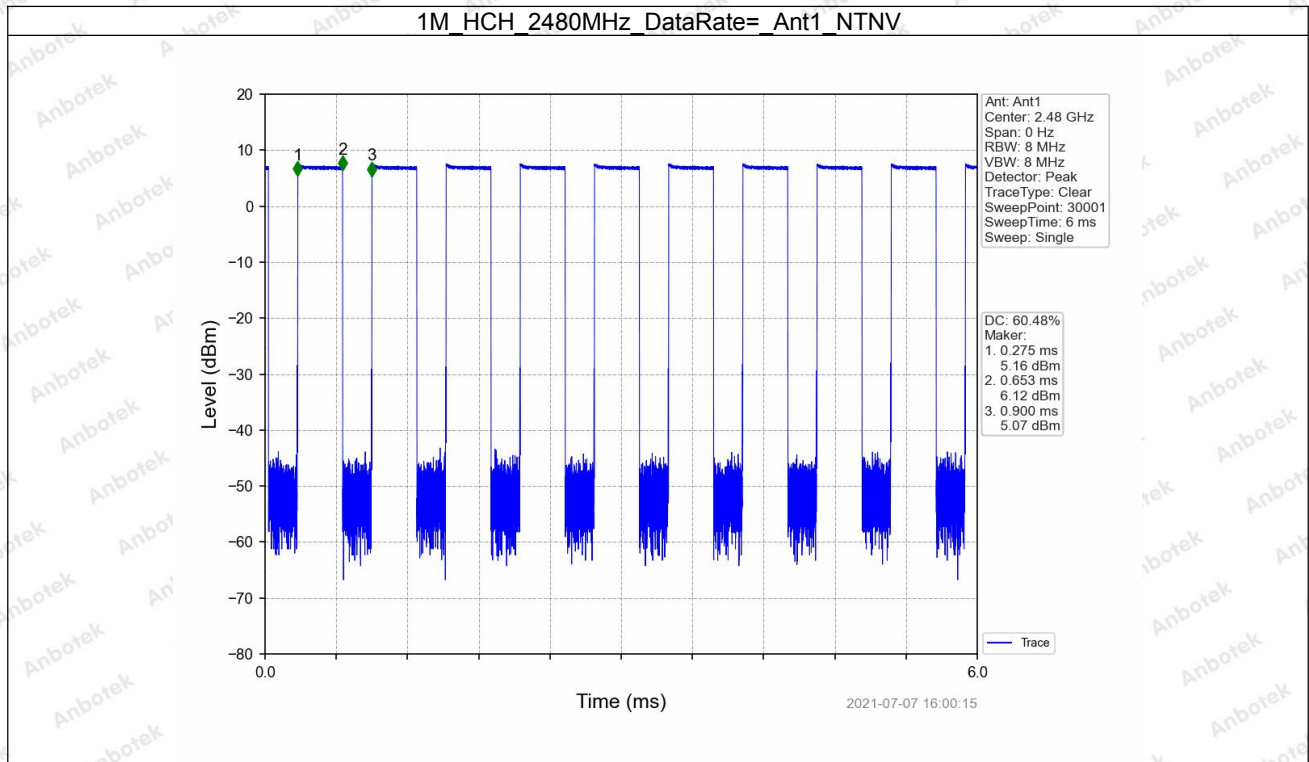
1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.38	0.62	60.32	2.20	0.03
		2440	0.38	0.62	60.48	2.18	0.00
		2480	0.38	0.62	60.48	2.18	0.00

1.1.2 Test Graph





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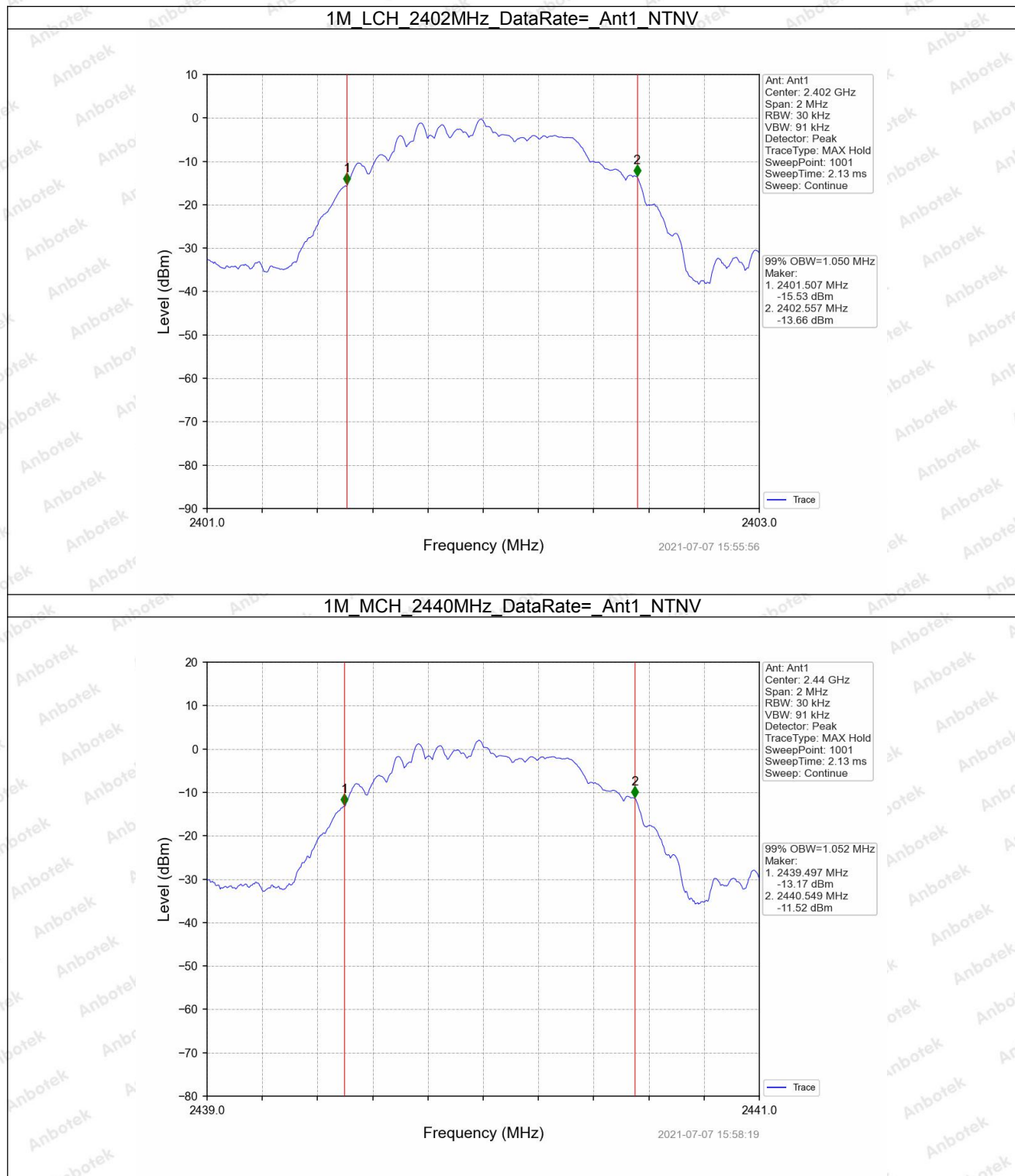
2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Limit	Verdict
1M	SISO	2402	1	1.05	/	Pass
		2440	1	1.05	/	Pass
		2480	1	1.05	/	Pass

2.1.2 Test Graph



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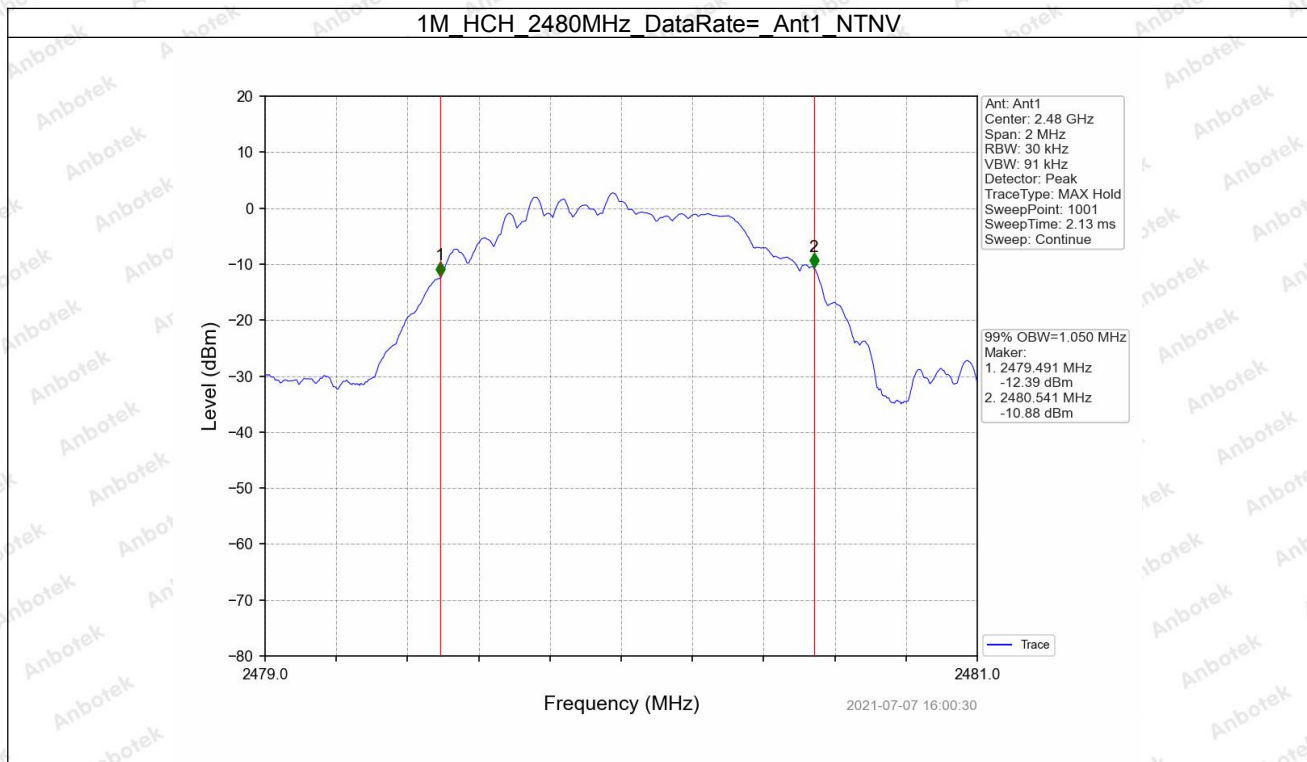
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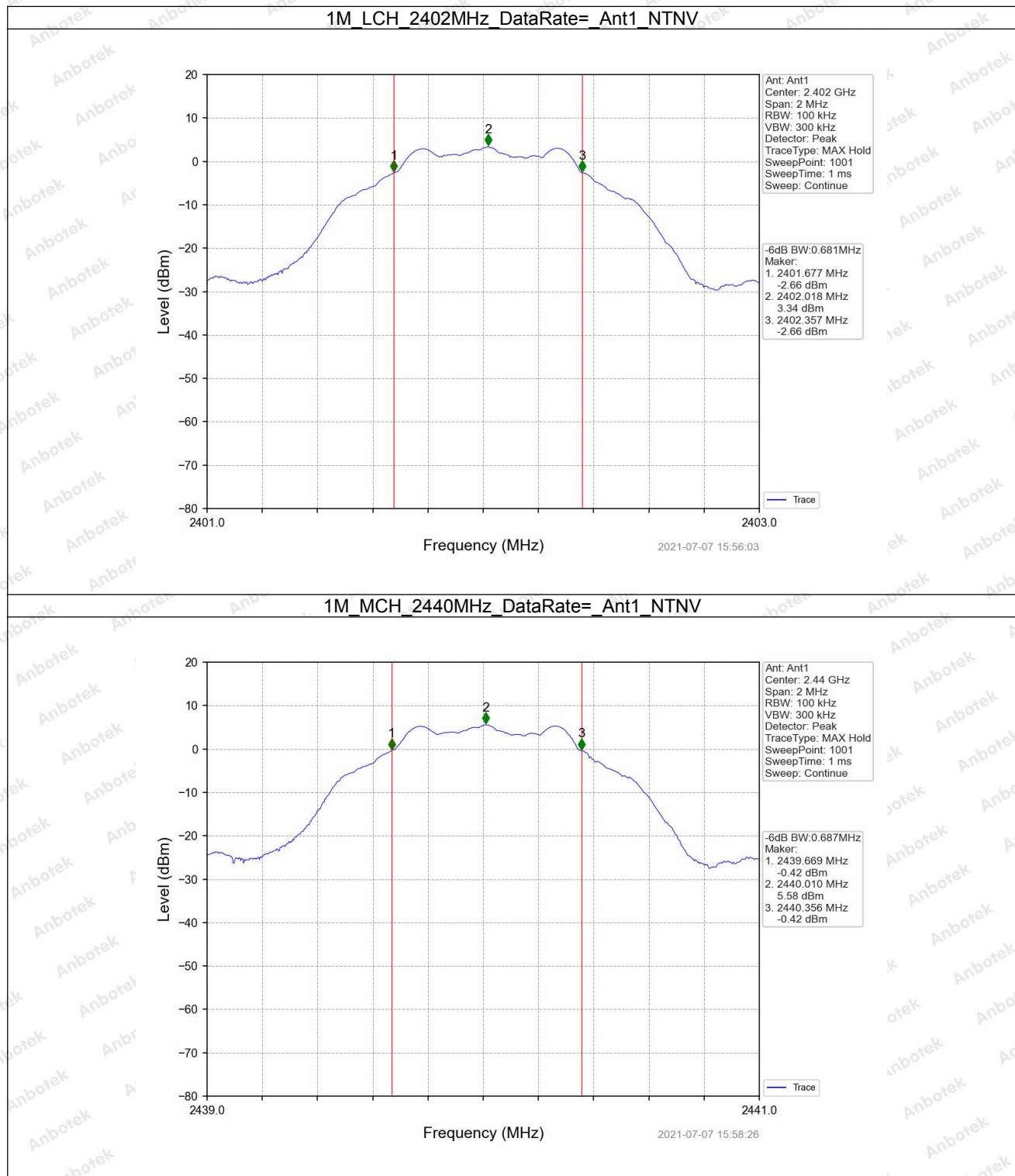
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)	Limit	Verdict
1M	SISO	2402	1	0.68	≥ 0.5	Pass
		2440	1	0.69	≥ 0.5	Pass
		2480	1	0.70	≥ 0.5	Pass

2.2.2 Test Graph



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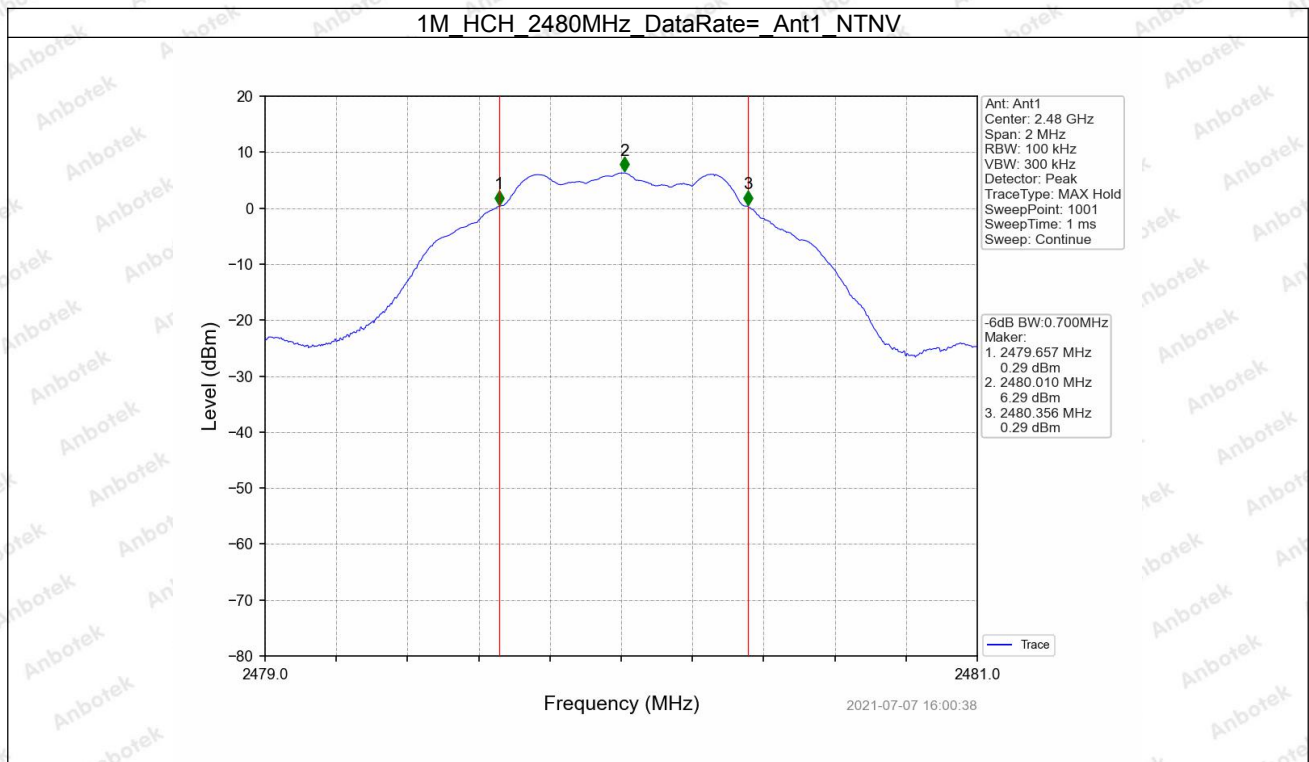
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3. Maximum Conducted Output Power

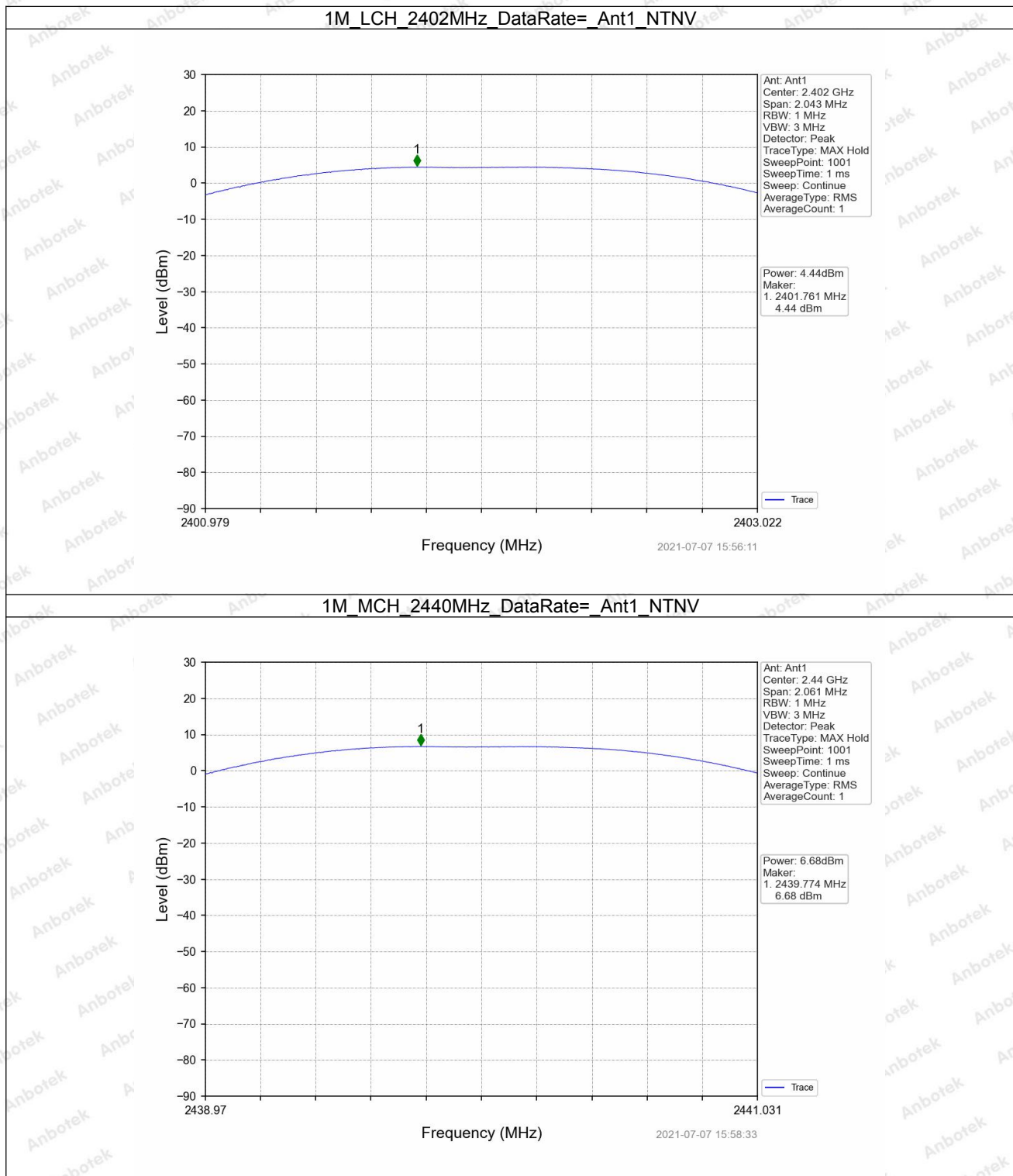
3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Measured Peak Output Power (dBm)		Verdict
			Ant1	Limit	
1M	SISO	2402	4.44	<=30	Pass
		2440	6.68	<=30	Pass
		2480	7.41	<=30	Pass

Note1: Antenna Gain: Ant1: 1.59dBi;

3.1.2 Test Graph



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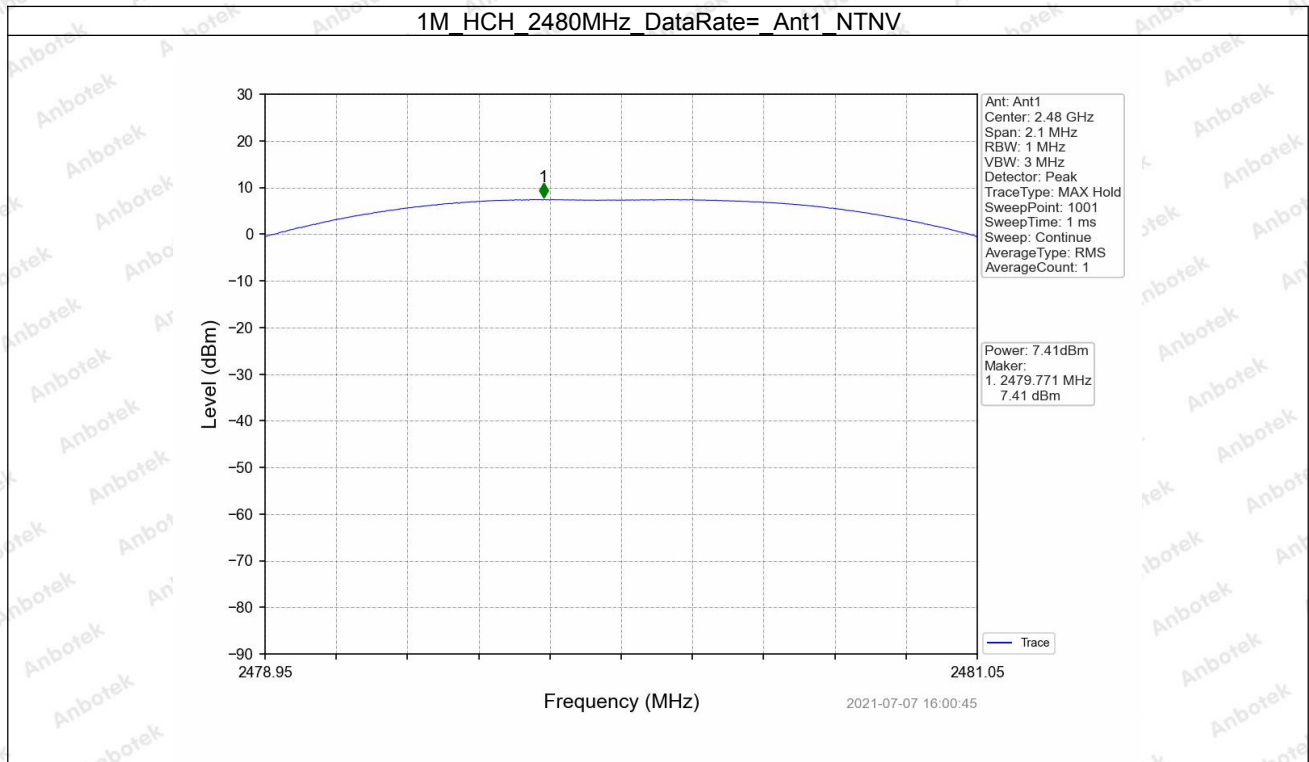
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4. Maximum Power Spectral Density

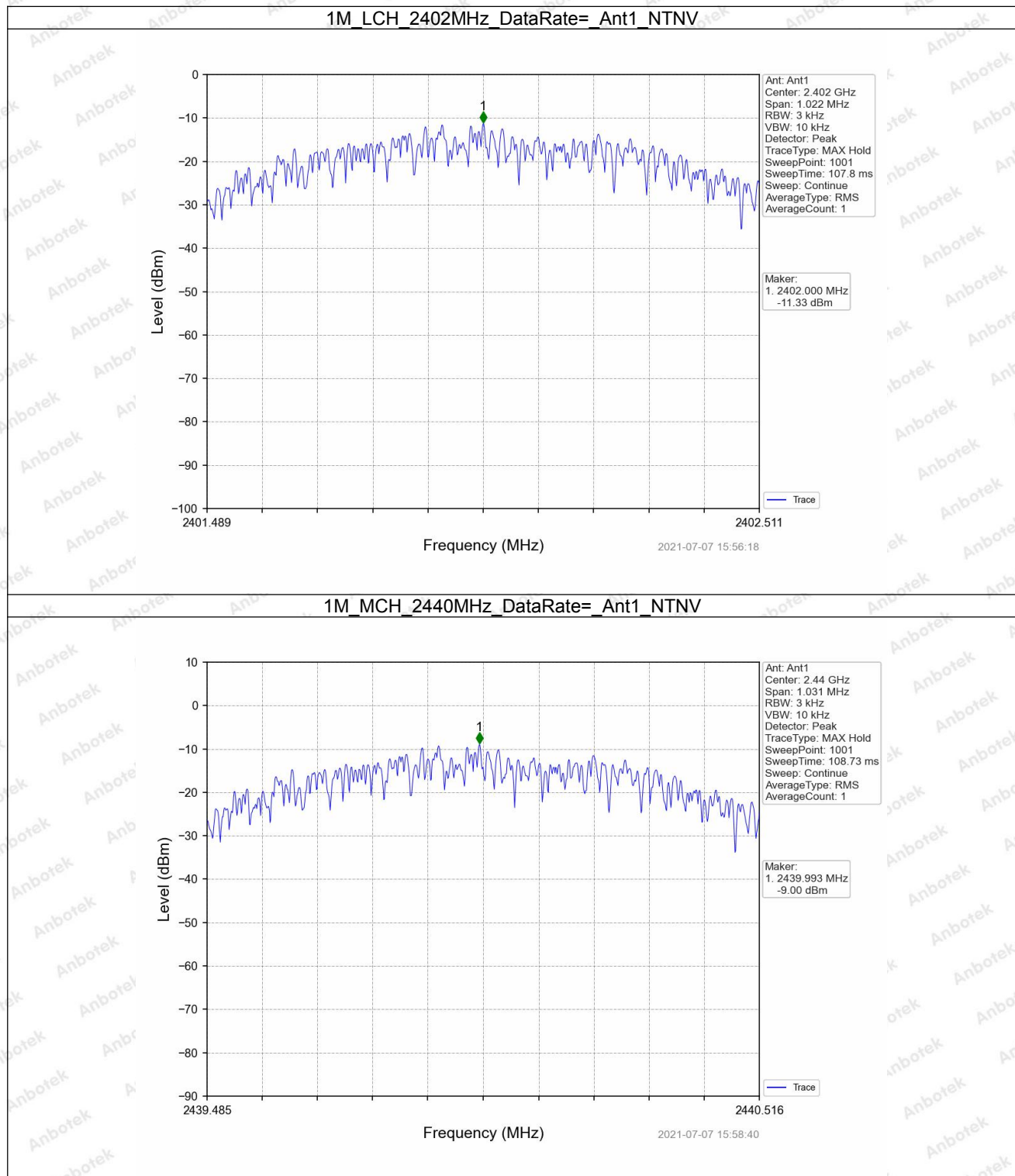
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
1M	SISO	2402	-11.33	<=8	Pass
		2440	-9.00	<=8	Pass
		2480	-8.24	<=8	Pass

Note1: Antenna Gain: Ant1: 1.59dBi;

4.1.2 Test Graph



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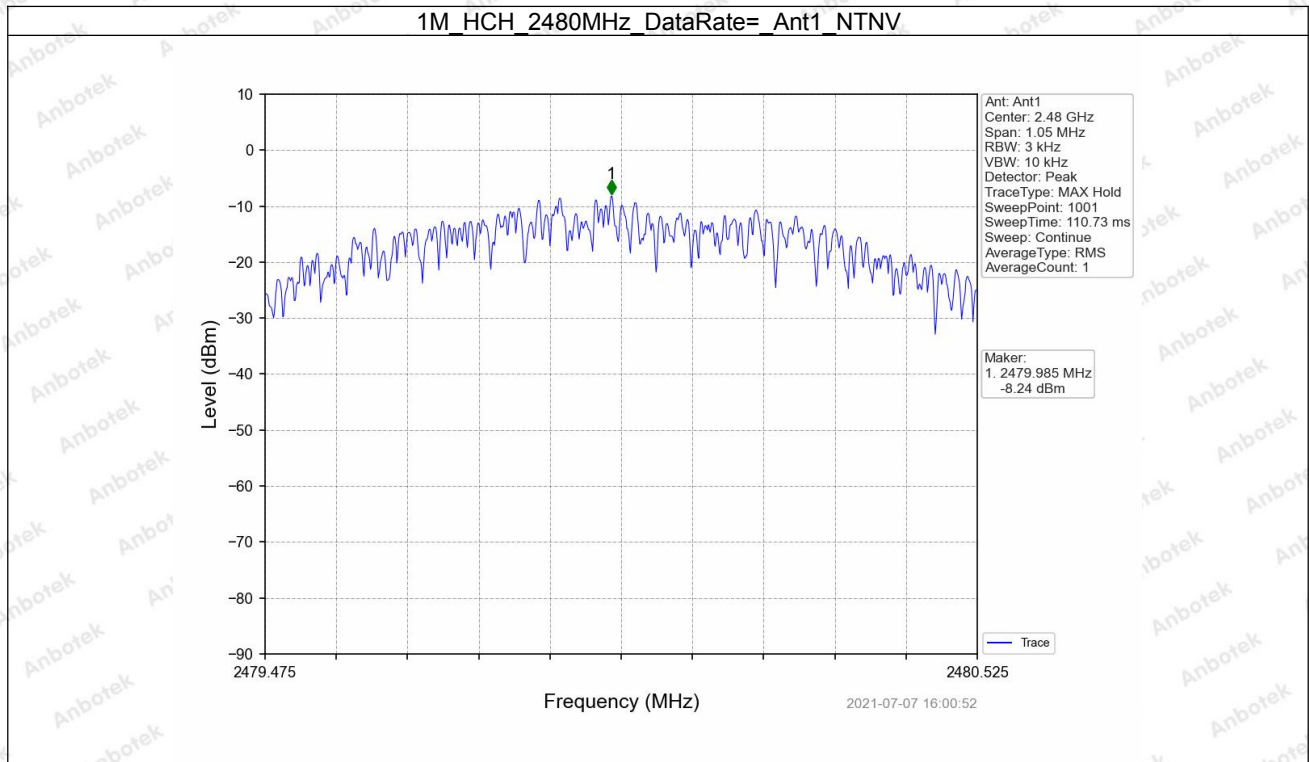
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5. Unwanted Emissions In Non-restricted Frequency Bands

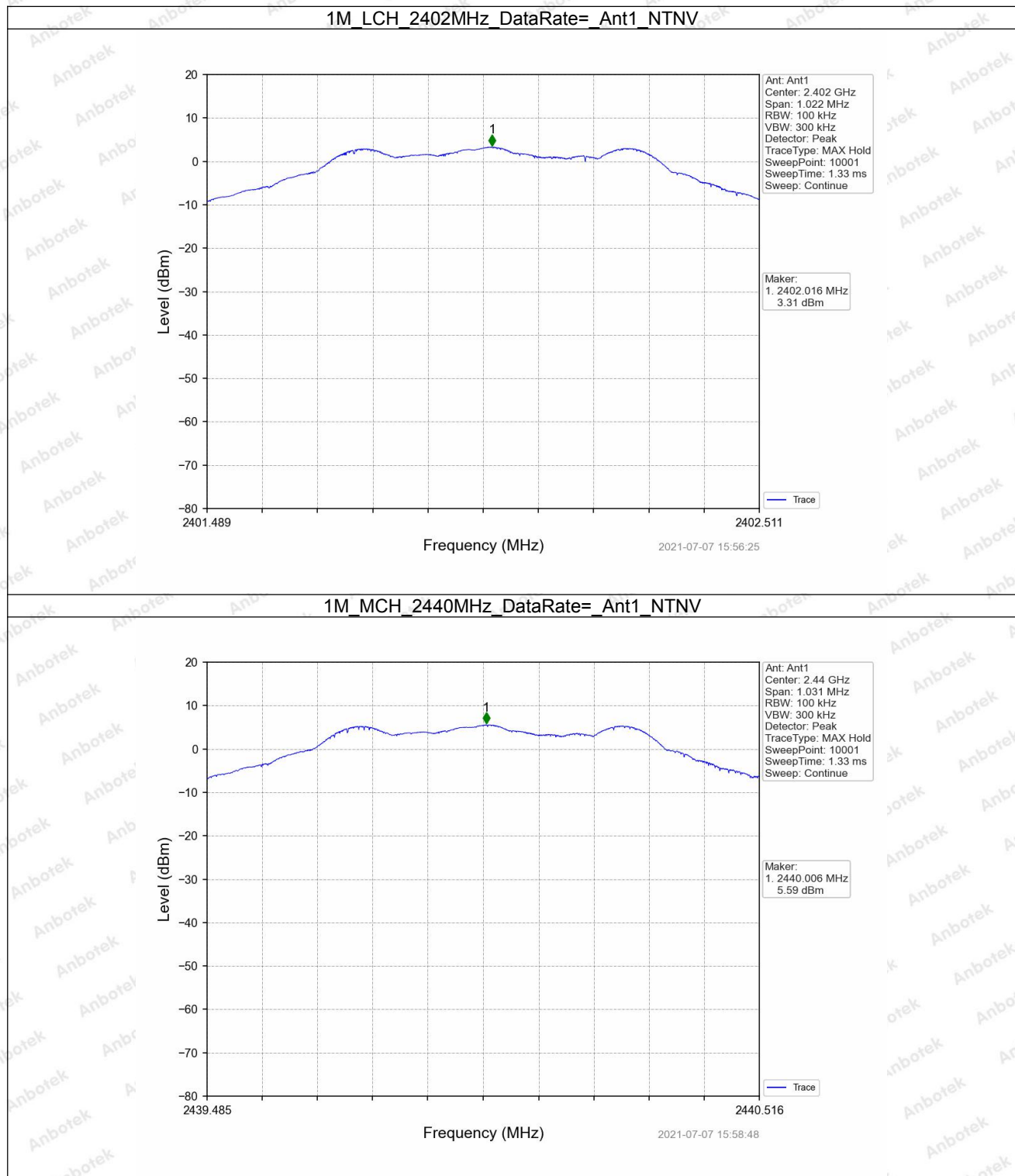
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
1M	SISO	2402	1	3.31
		2440	1	5.59
		2480	1	6.33

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph



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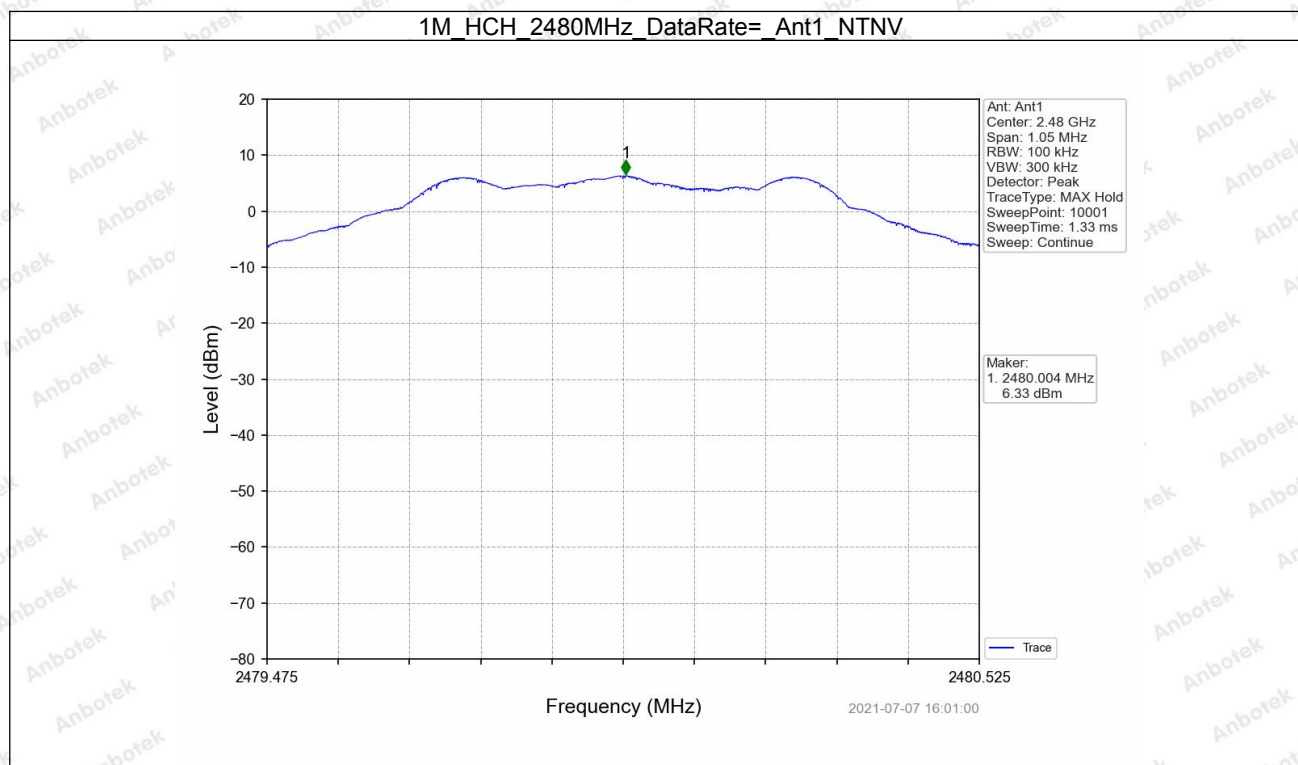
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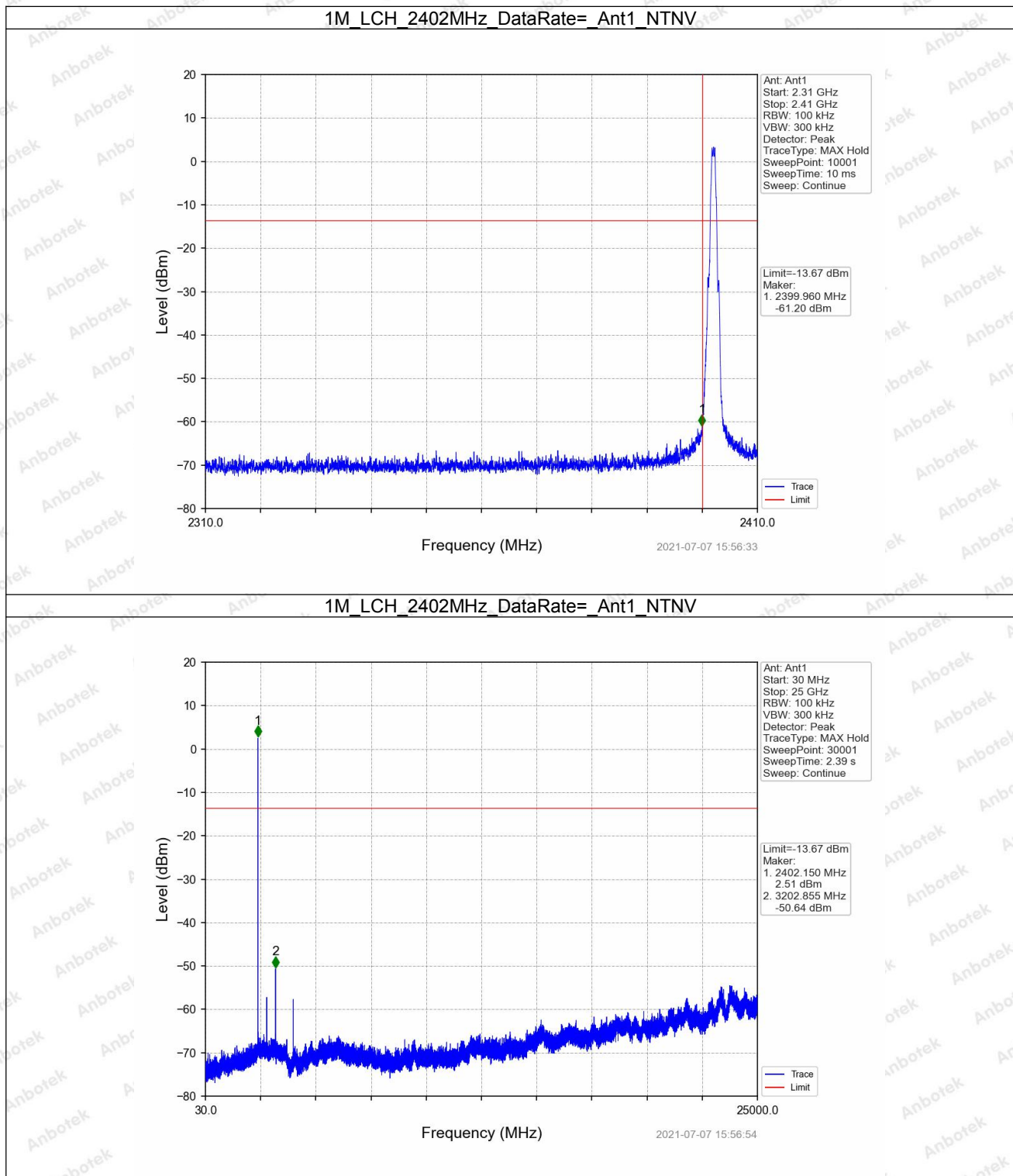
5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	6.33	-13.67	Pass
		2440	1	6.33	-13.67	Pass
		2480	1	6.33	-13.67	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.2.2 Test Graph



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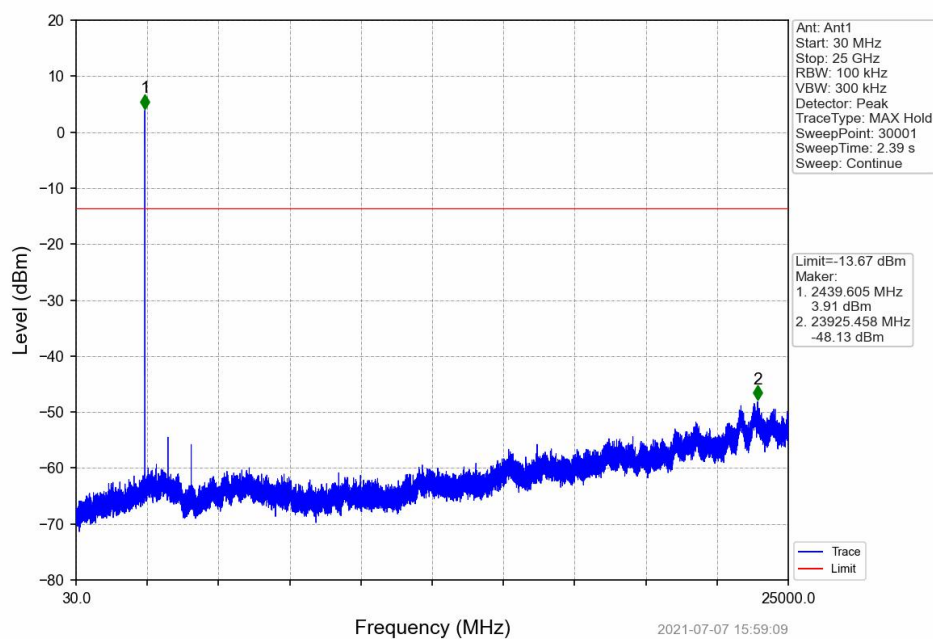


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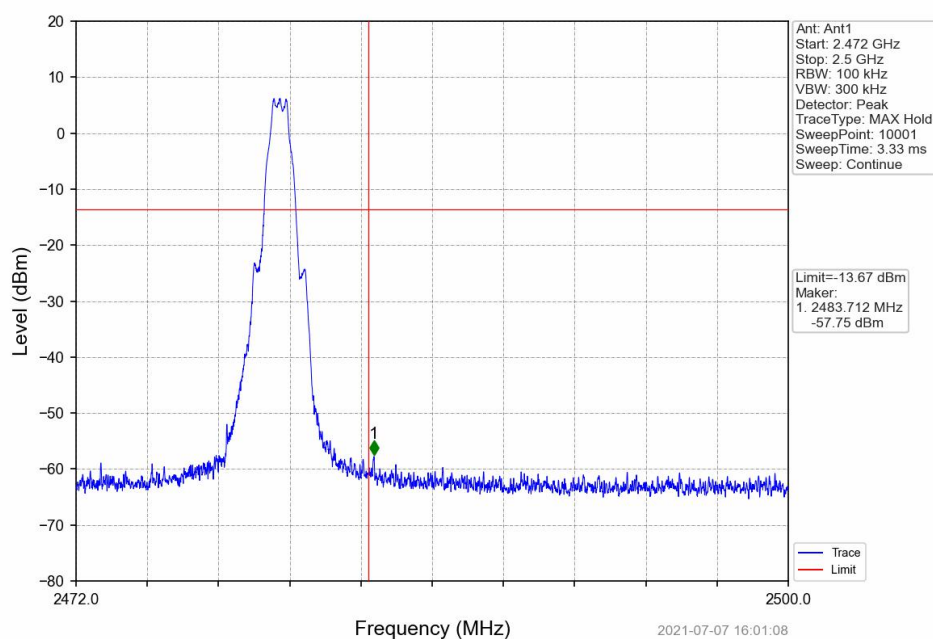
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1M_MCH_2440MHz_DataRate=_Ant1_NTNV



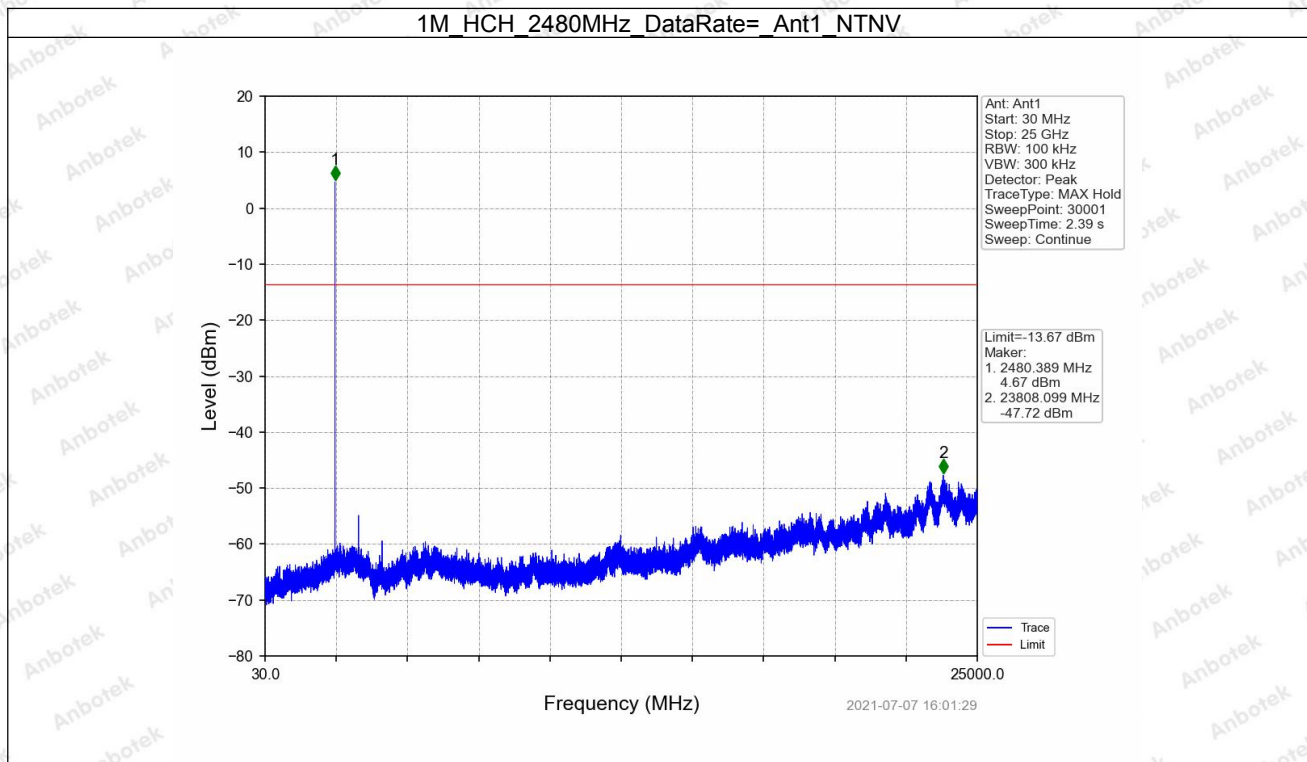
1M_HCH_2480MHz_DataRate=_Ant1_NTNV



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6. Frequency Error

6.1 Ant1

6.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit	Verdict
1M	SISO	2402	20	102	2402.012	2401.6 to 2402.4	Pass
				120	2402.014	2401.6 to 2402.4	Pass
				138	2402.012	2401.6 to 2402.4	Pass
			-20	120	2402.016	2401.6 to 2402.4	Pass
			50	120	2402.012	2401.6 to 2402.4	Pass
		2440	20	102	2440.007	2439.6 to 2440.4	Pass
				120	2440.007	2439.6 to 2440.4	Pass
				138	2440.008	2439.6 to 2440.4	Pass
			-20	120	2440.004	2439.6 to 2440.4	Pass
			50	120	2440.010	2439.6 to 2440.4	Pass
		2480	20	102	2479.997	2479.6 to 2480.4	Pass
				120	2480.000	2479.6 to 2480.4	Pass
				138	2479.999	2479.6 to 2480.4	Pass
			-20	120	2479.999	2479.6 to 2480.4	Pass
			50	120	2479.998	2479.6 to 2480.4	Pass

---End---