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Annex for Bluetooth Low Energy

Test Report No.: CTL2605144041-WF

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FCC ID: 2BSEJ-Y27

1. Duty Cycle

1.1 Test Result

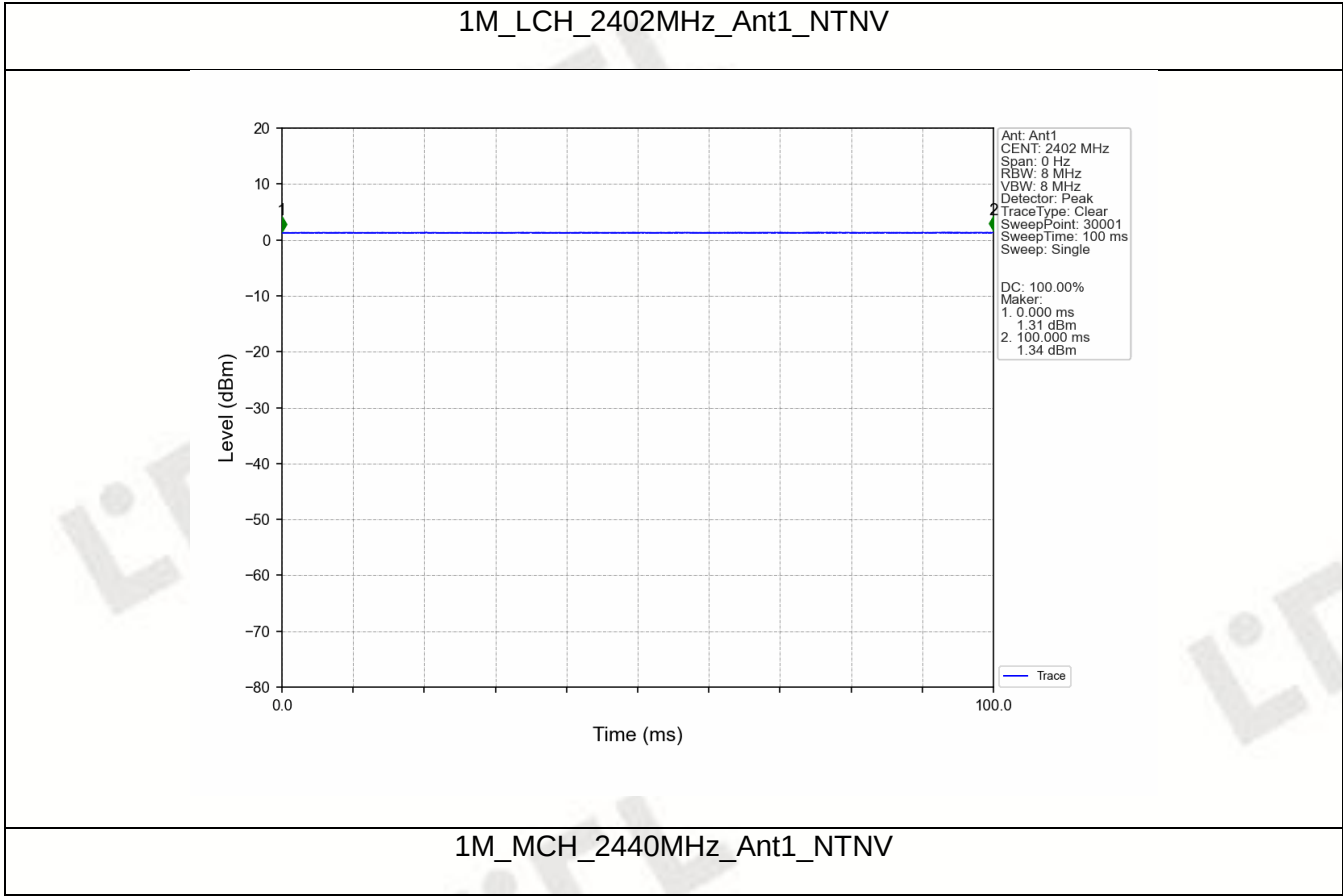
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00

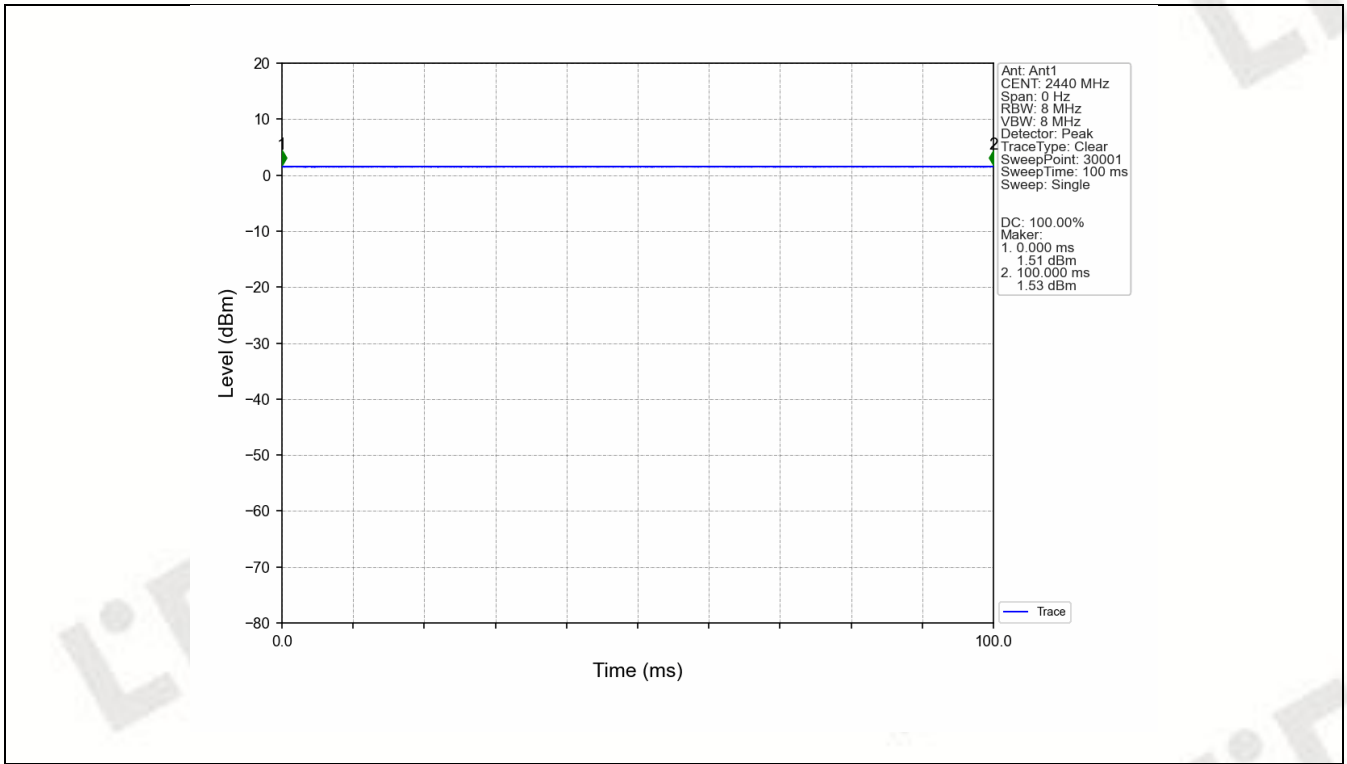
FCC ID: 2BSEJ-Y27

1.2 Test Graph

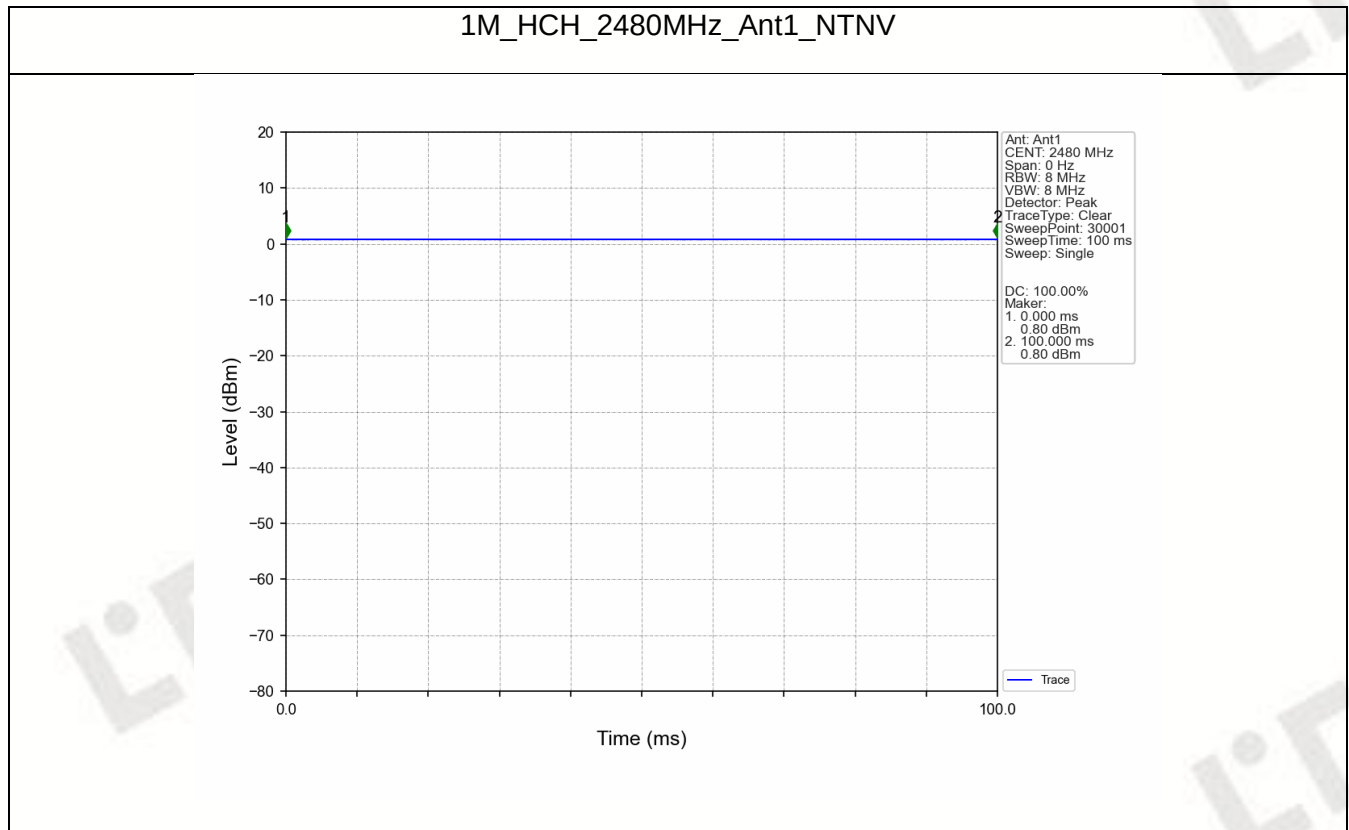
1.2.1 Ant1



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.045	/	Pass
		2440	1	1.051	/	Pass
		2480	1	1.058	/	Pass

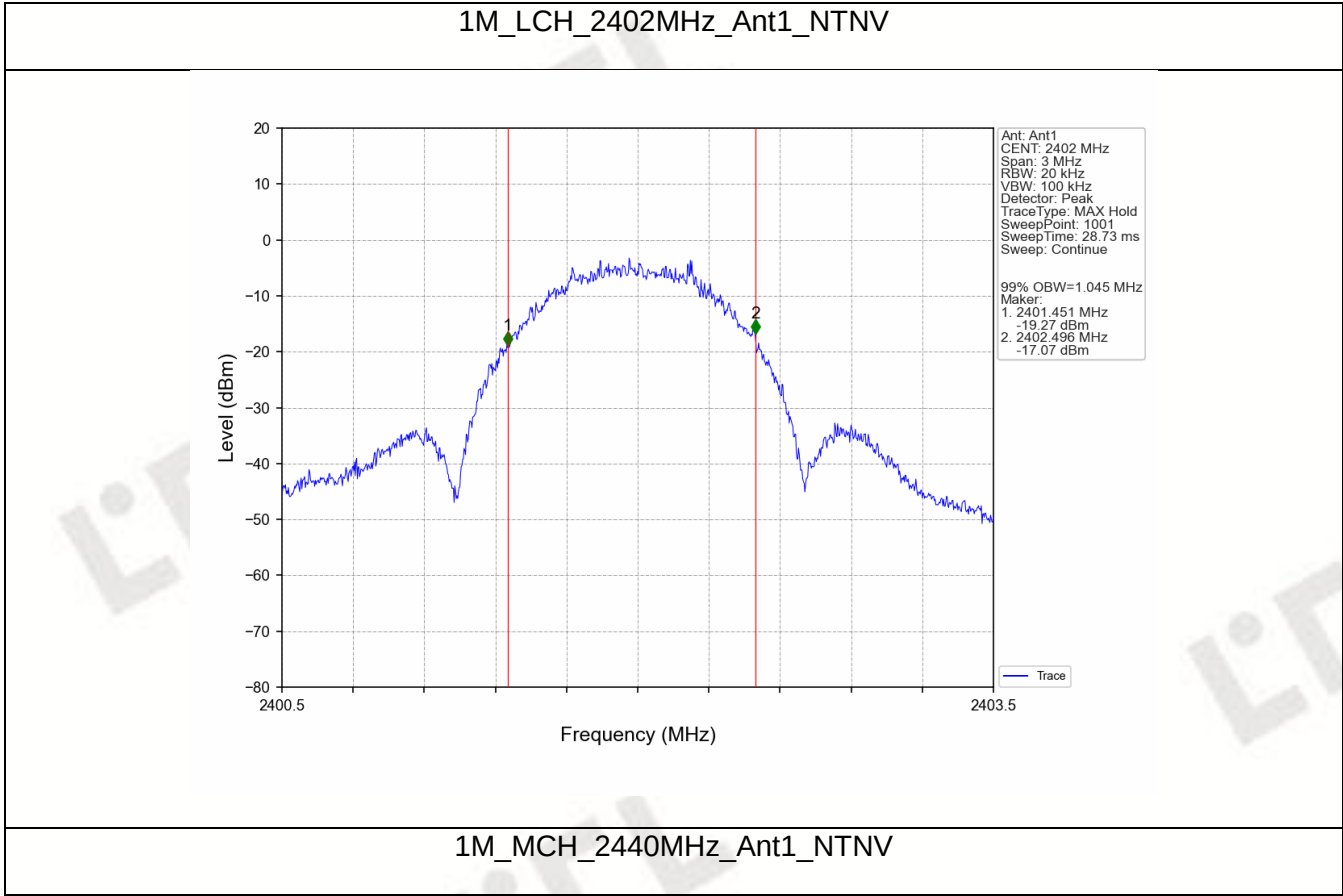
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.681	≥ 0.5	Pass
		2440	1	0.709	≥ 0.5	Pass
		2480	1	0.684	≥ 0.5	Pass

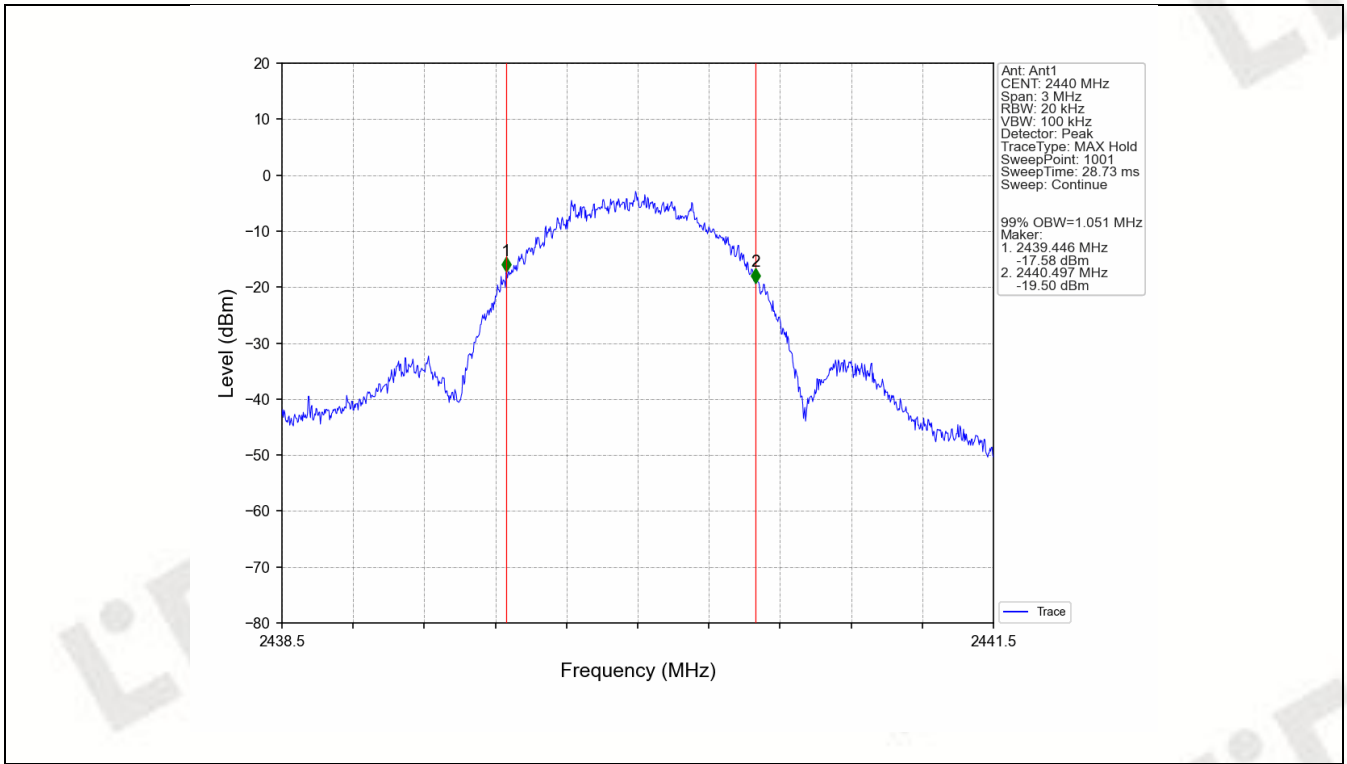
FCC ID: 2BSEJ-Y27

2.2 Test Graph

2.2.1 OBW

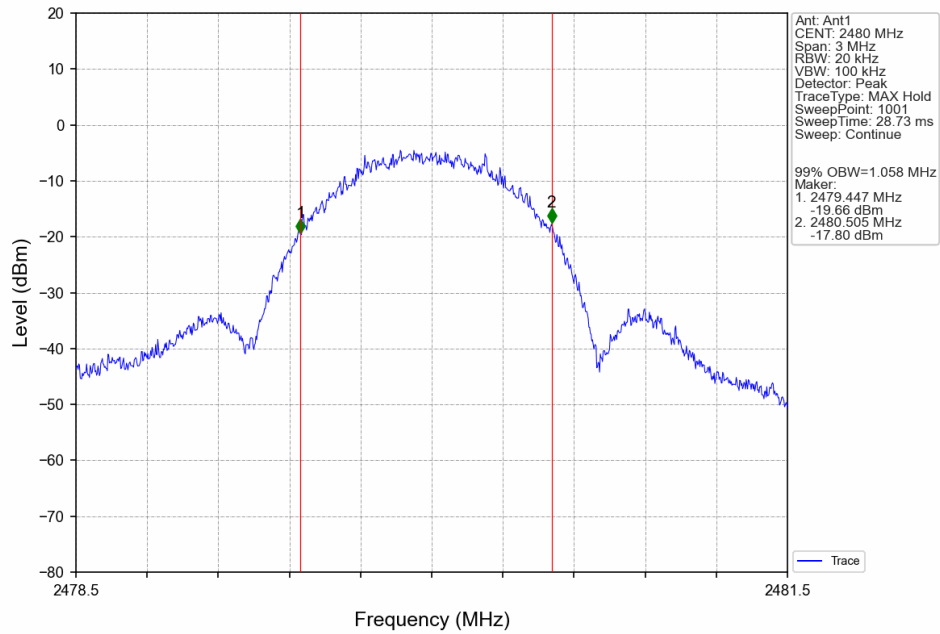


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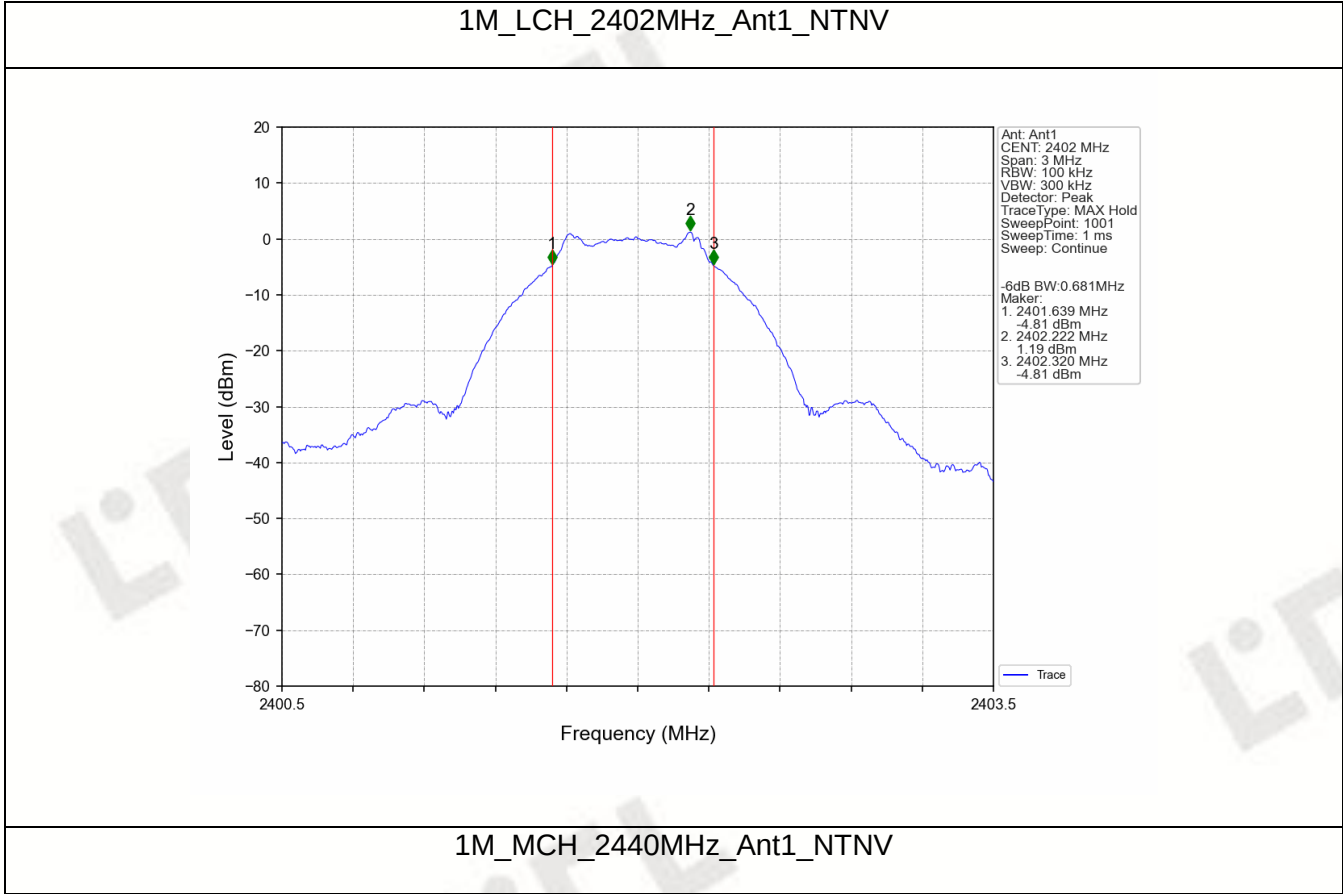
FCC ID: 2BSEJ-Y27

1M_HCH_2480MHz_Ant1_NTNV

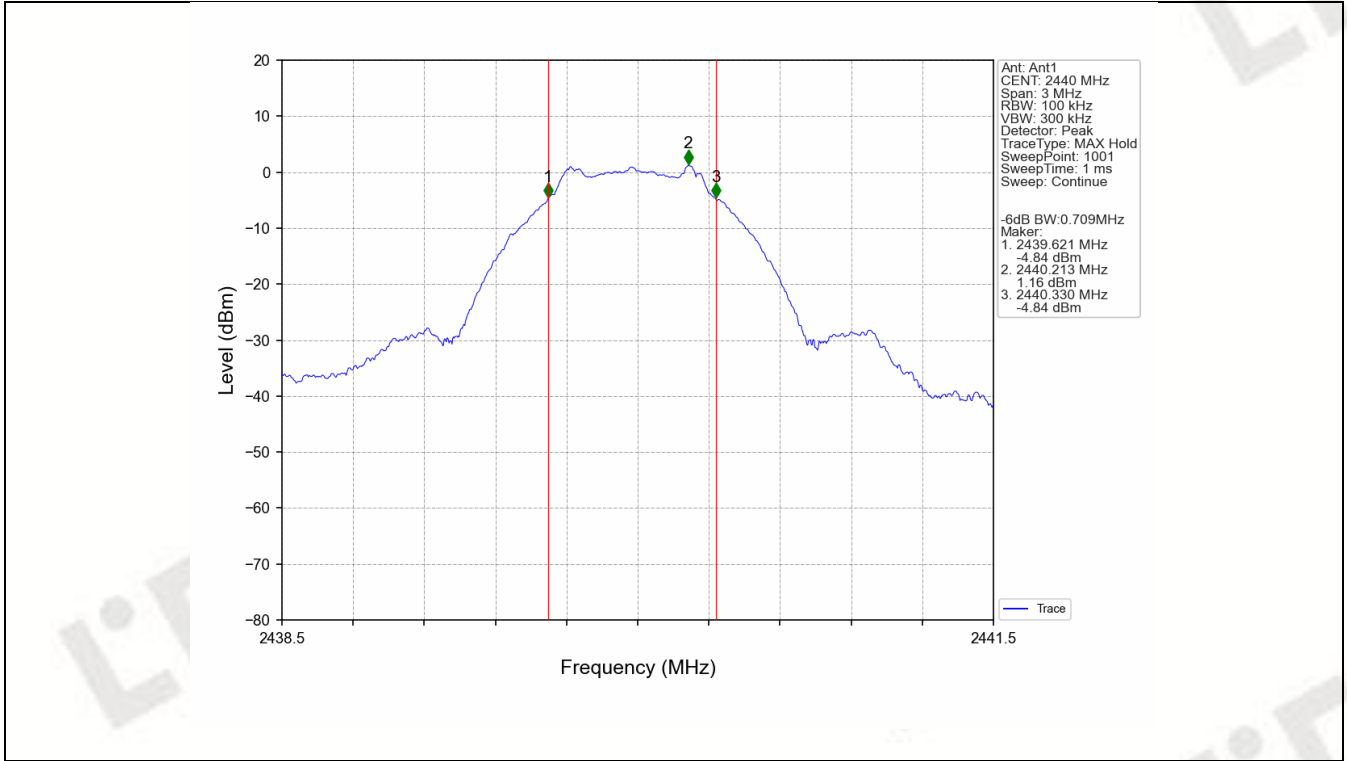


FCC ID: 2BSEJ-Y27

2.2.2 6dB BW

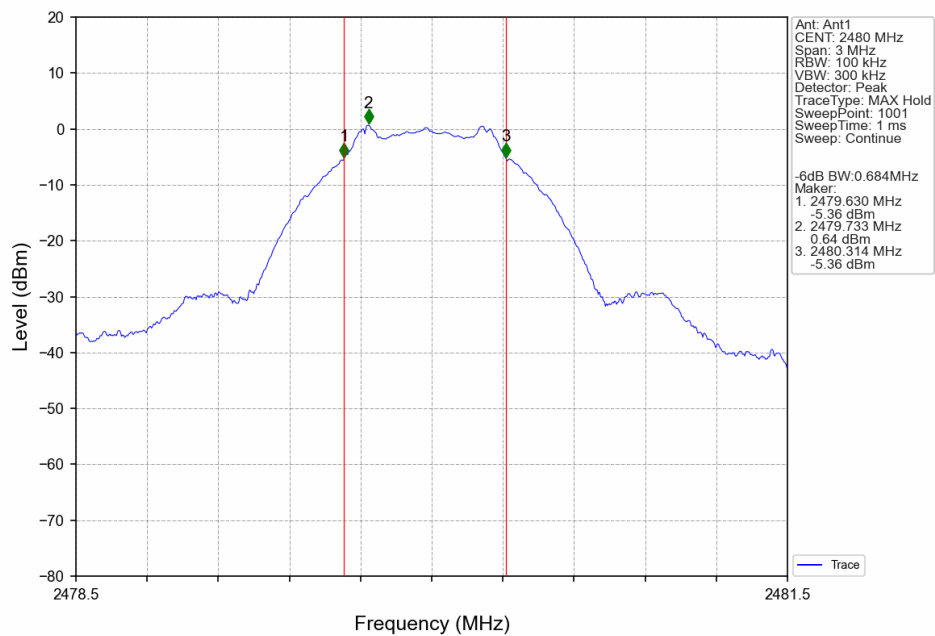


FCC ID: 2BSEJ-Y27



FCC ID: 2BSEJ-Y27

1M_HCH_2480MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	1.27	<=30	Pass
		2440	1.49	<=30	Pass
		2480	0.76	<=30	Pass
Note1: Antenna Gain: Ant1: 0.28dBi;					

FCC ID: 2BSEJ-Y27

4. Maximum Power Spectral Density

4.1 Test Result

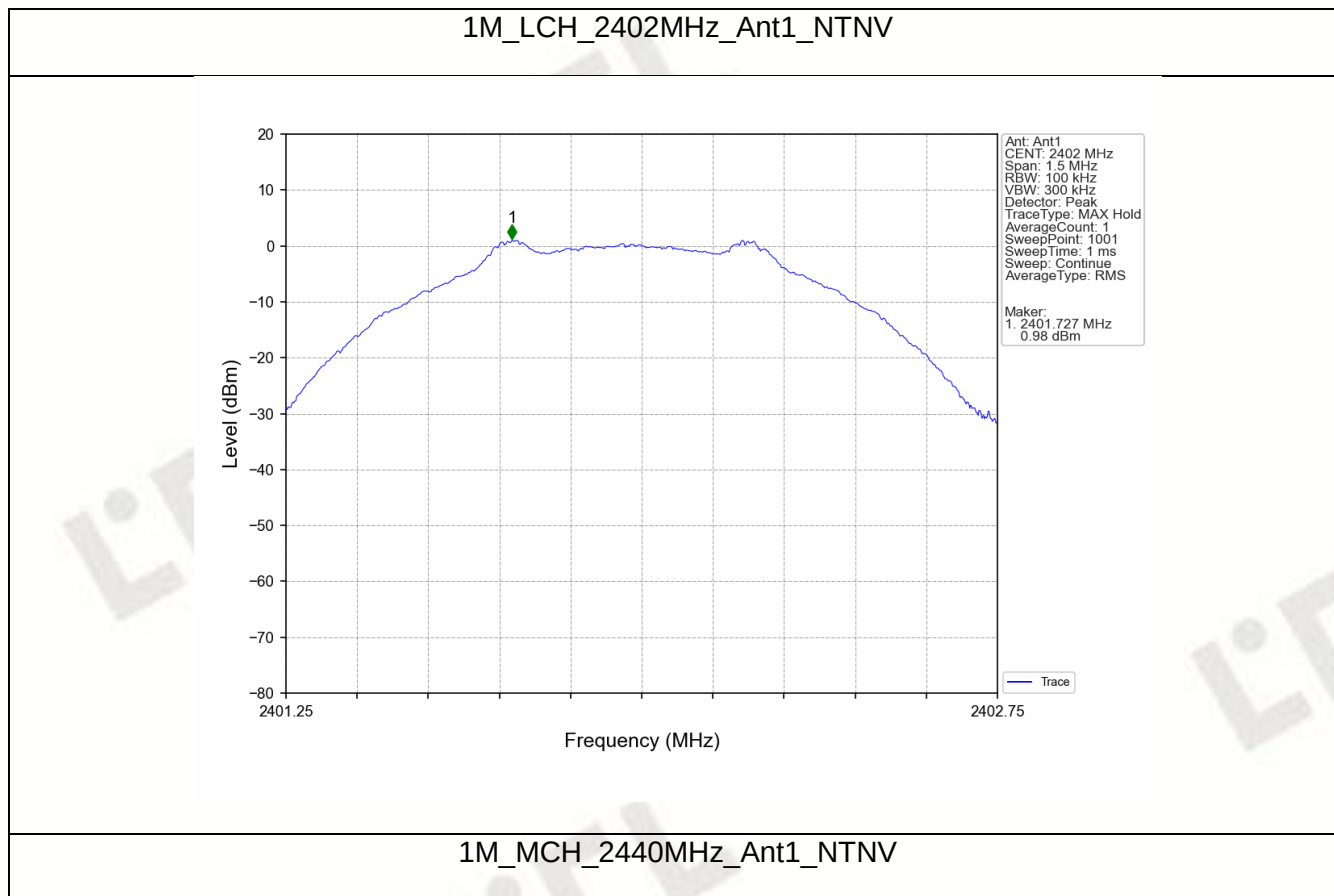
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	0.98dBm/100kHz	<=8	Pass
		2440	1.22dBm/100kHz	<=8	Pass
		2480	0.62dBm/100kHz	<=8	Pass
Note1: Antenna Gain: Ant1: 0.28dBi;					

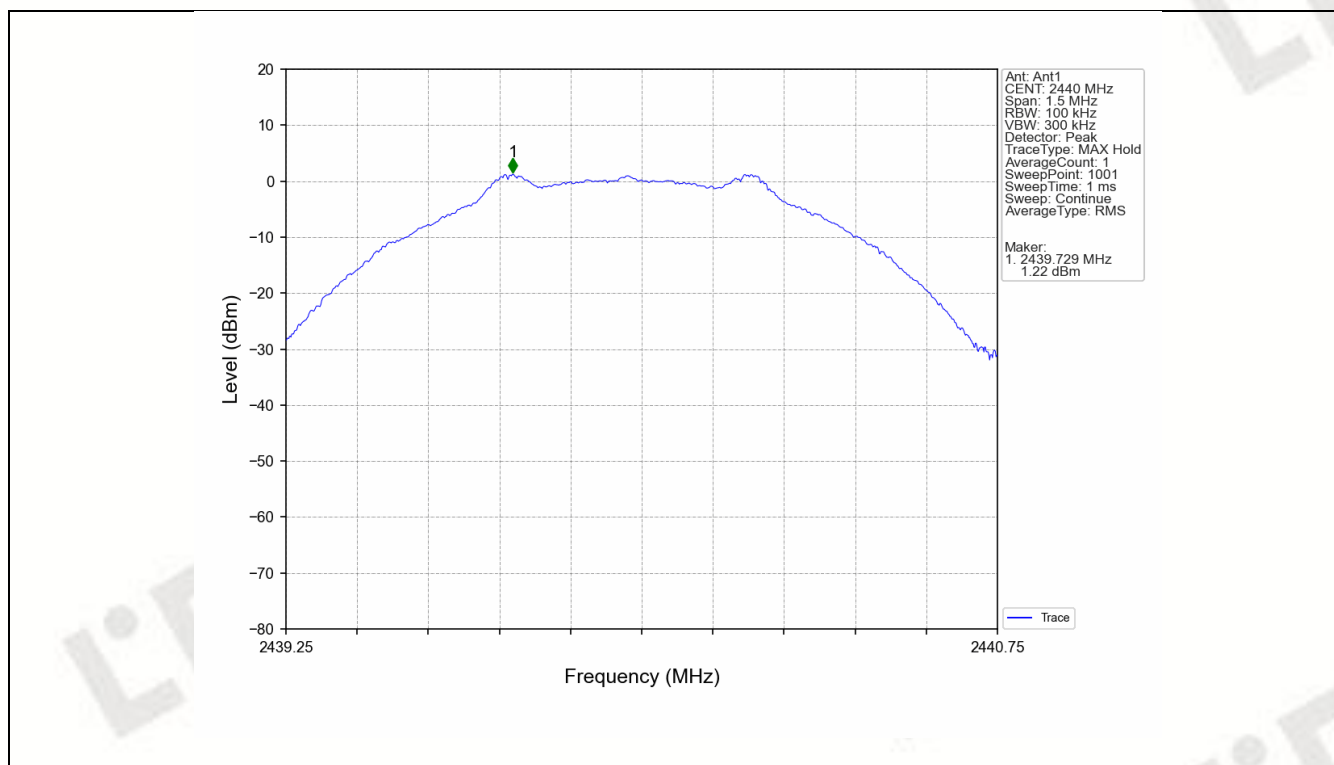
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4.2 Test Graph

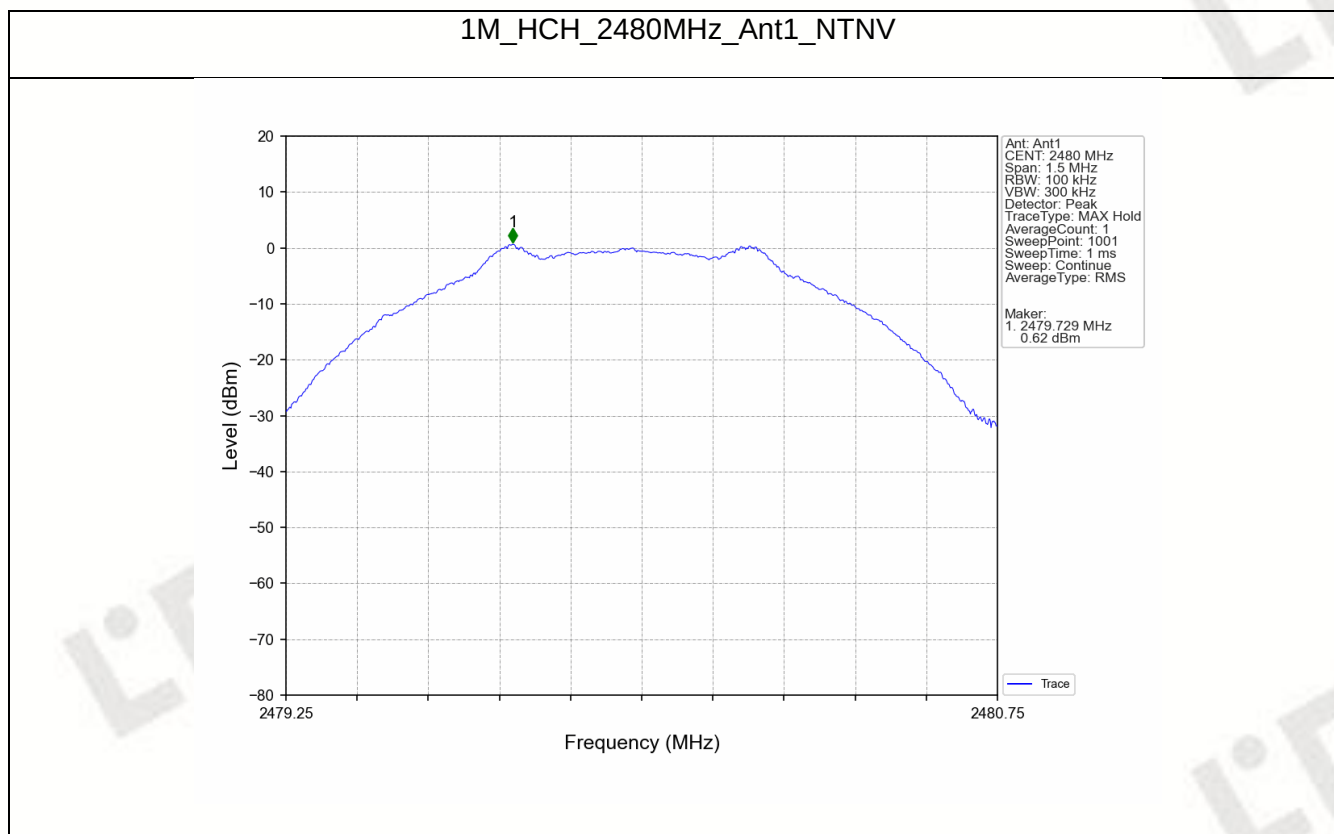
4.2.1 PSD



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	1.09
		2440	1	1.31
		2480	1	0.57

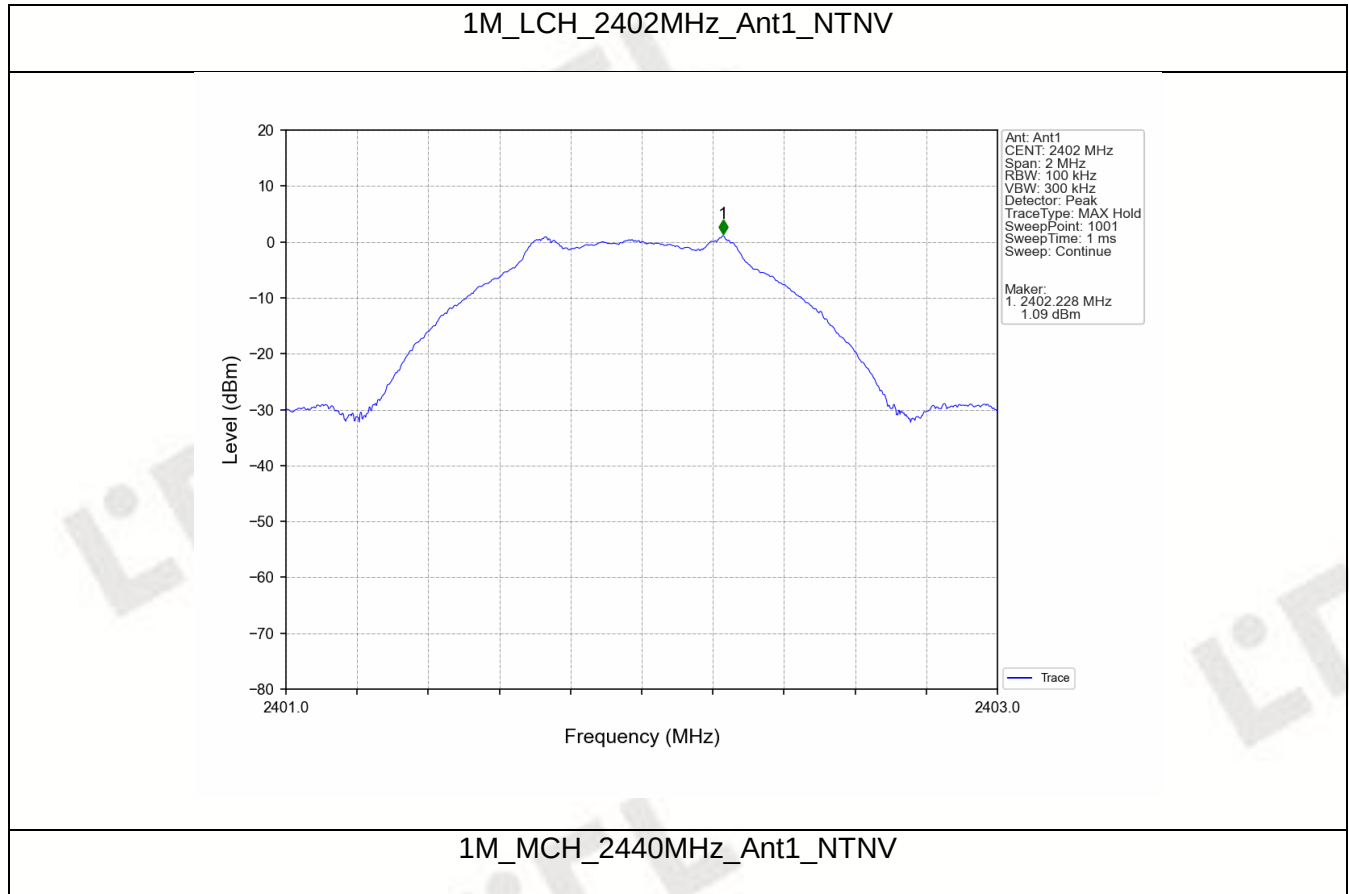
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	1.09	-18.91	Pass
		2440	1	1.31	-18.69	Pass
		2480	1	0.57	-19.43	Pass

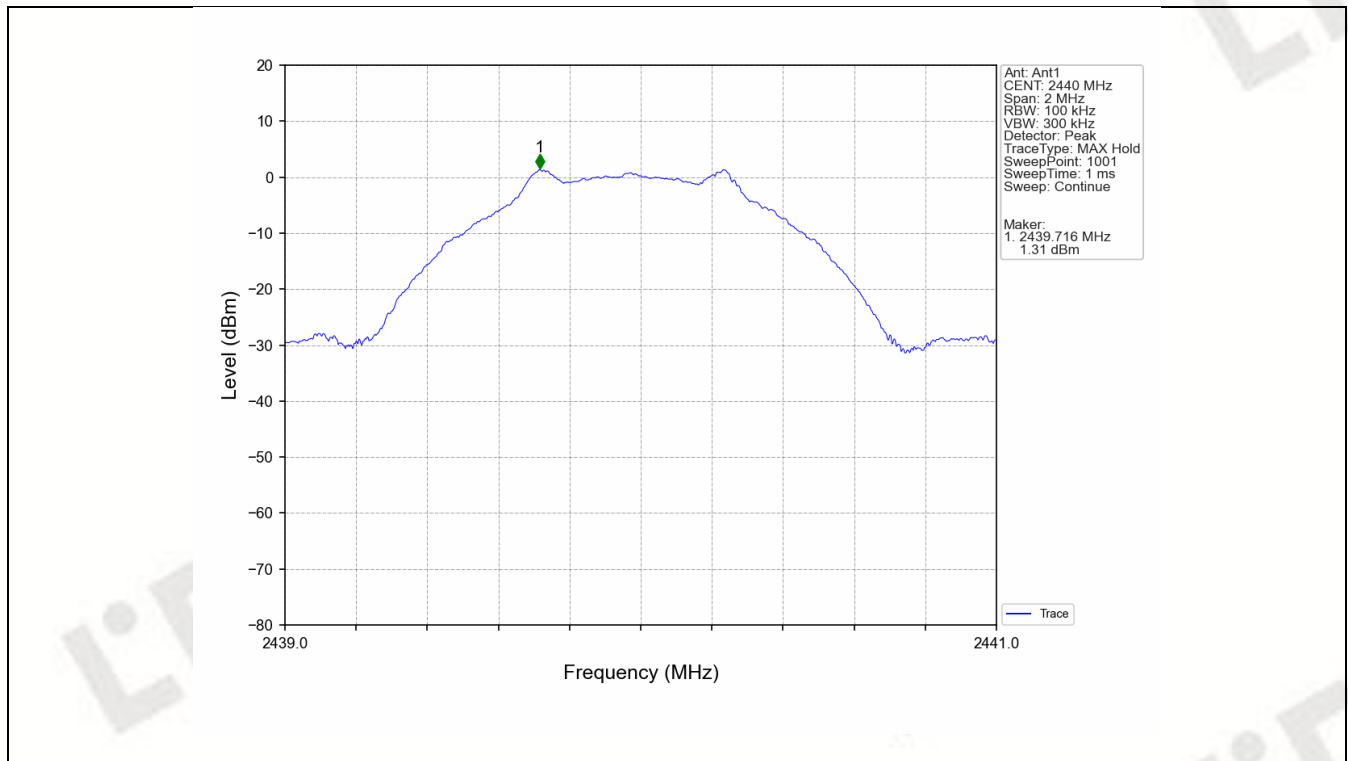
FCC ID: 2BSEJ-Y27

5.2 Test Graph

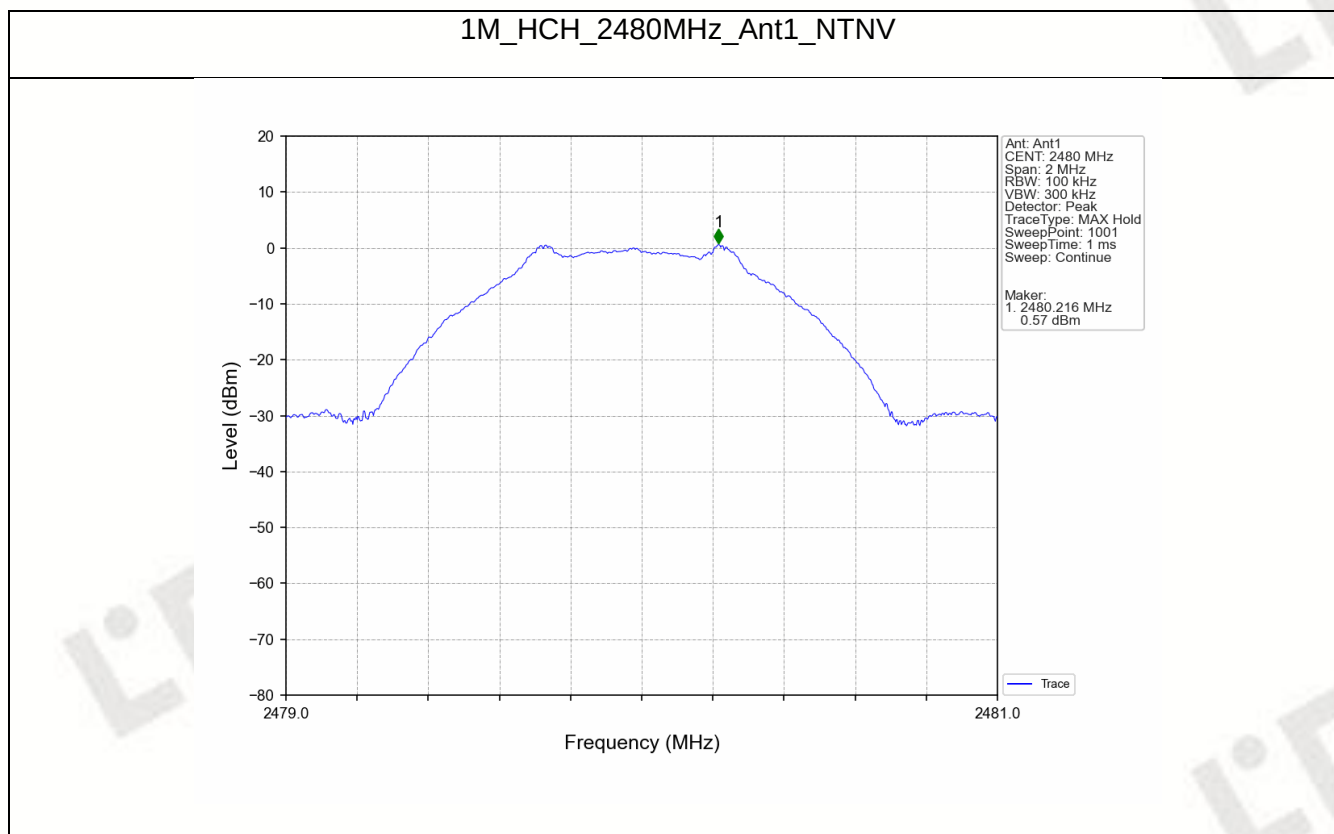
5.2.1 Ref



FCC ID: 2BSEJ-Y27

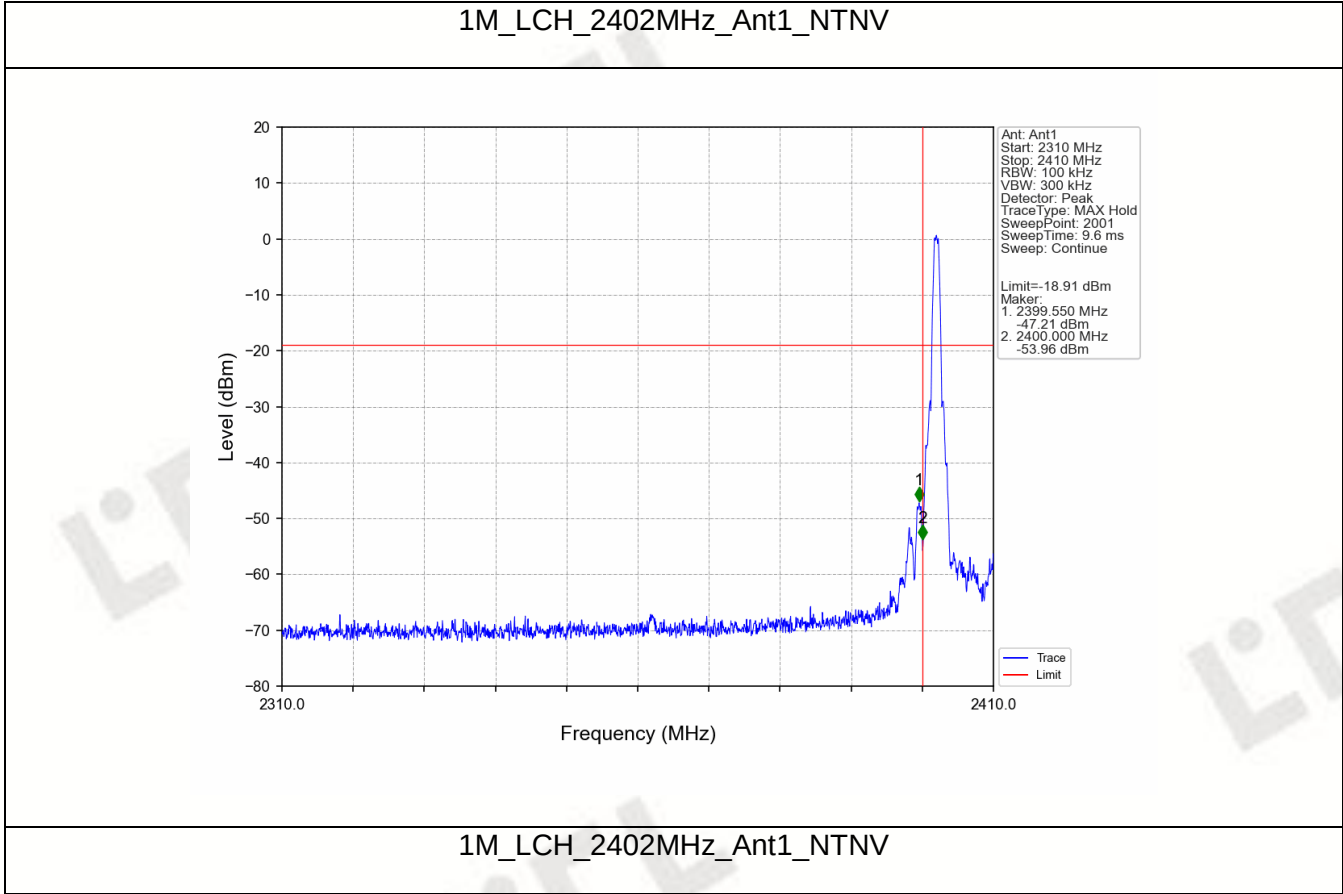


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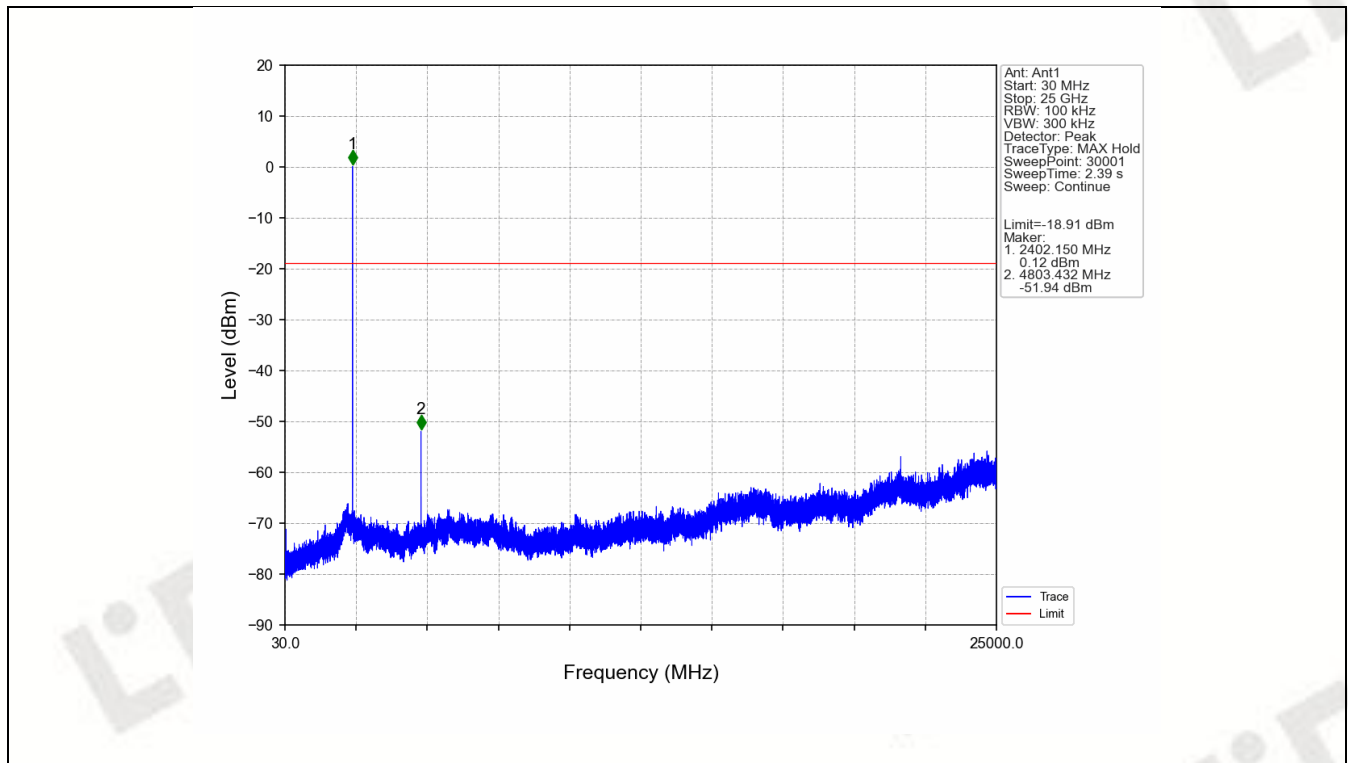


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5.2.2 CSE

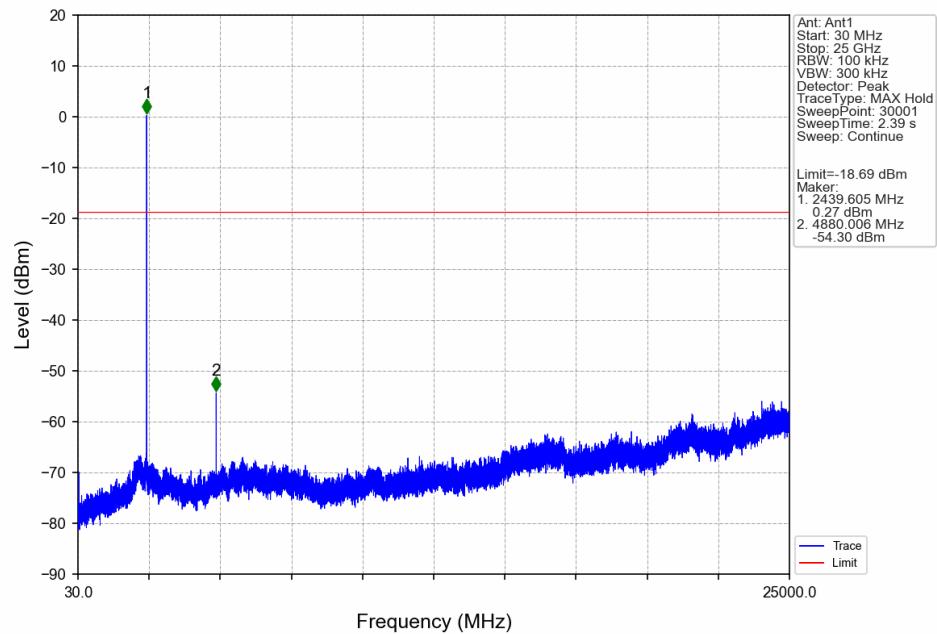


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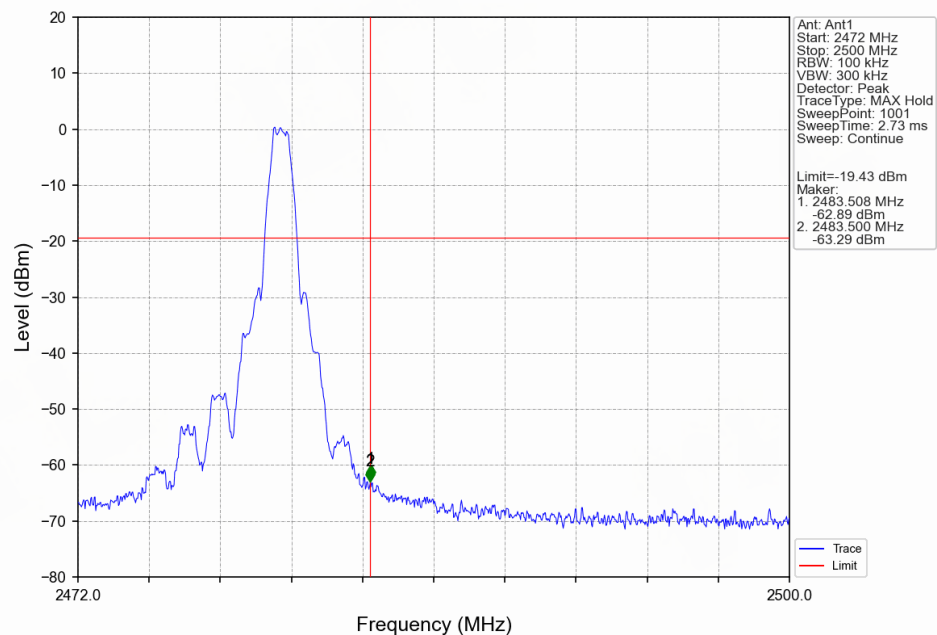


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1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



FCC ID: 2BSEJ-Y27

