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Annex for Bluetooth Low Energy

Test Report No.: CTL2602061011-WF

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FCC ID: 2BVN2-B58A

1. Duty Cycle

1.1 Test Result

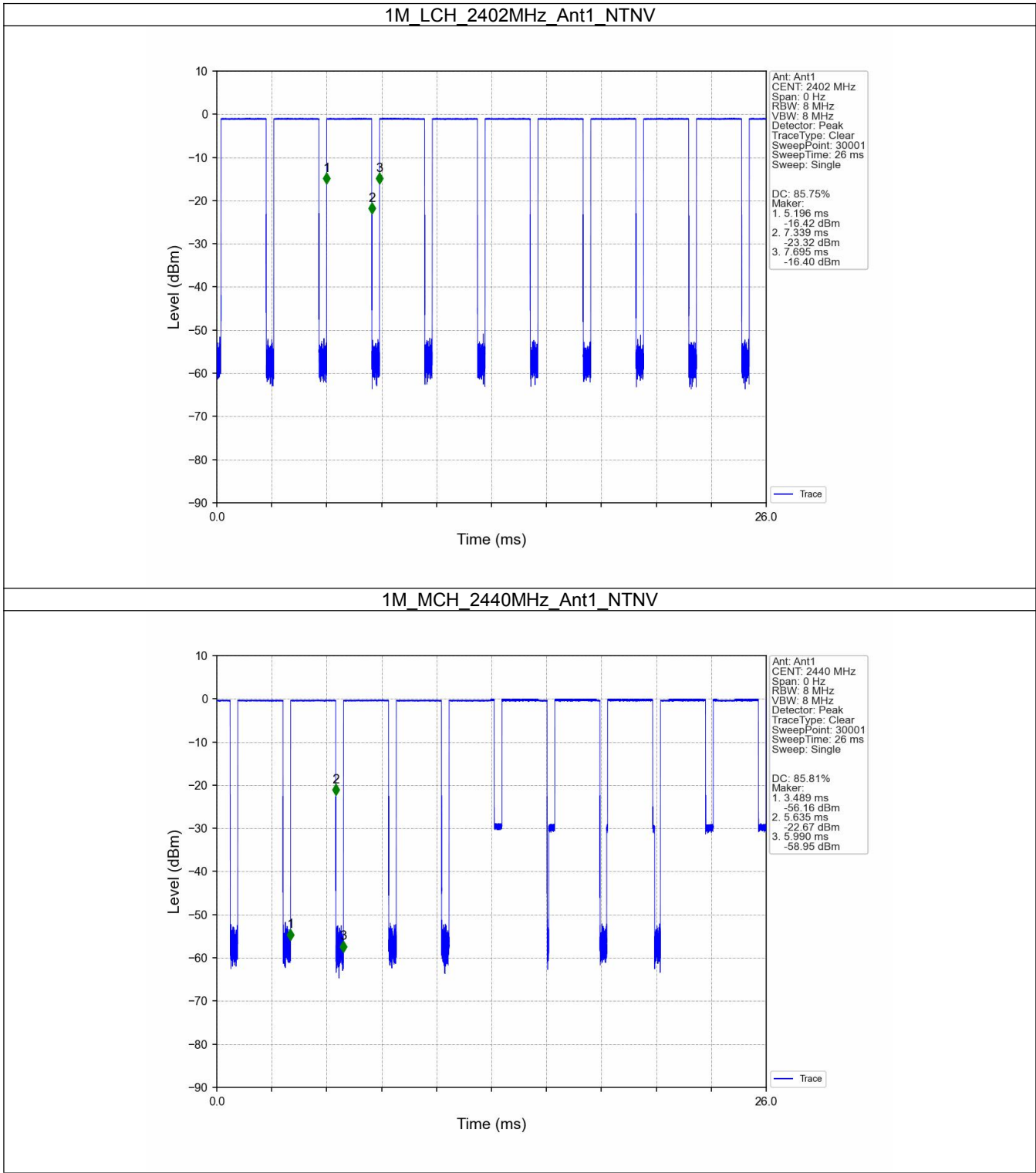
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	2.143	2.499	85.75	0.67	0.00
		2440	2.146	2.501	85.81	0.66	12.69
		2480	2.143	2.499	85.75	0.67	0.03

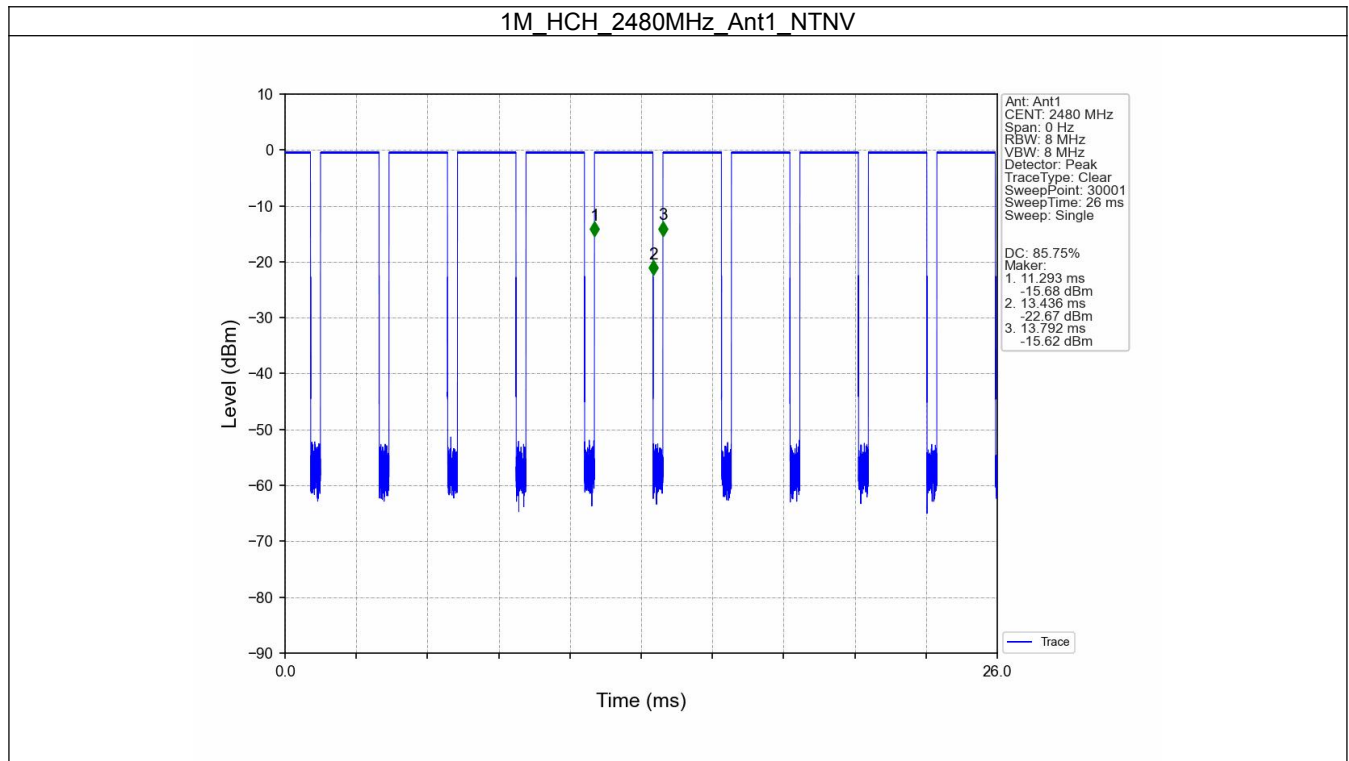
FCC ID: 2BVN2-B58A

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	1.028	/	Pass
		2440	1	1.032	/	Pass
		2480	1	1.028	/	Pass

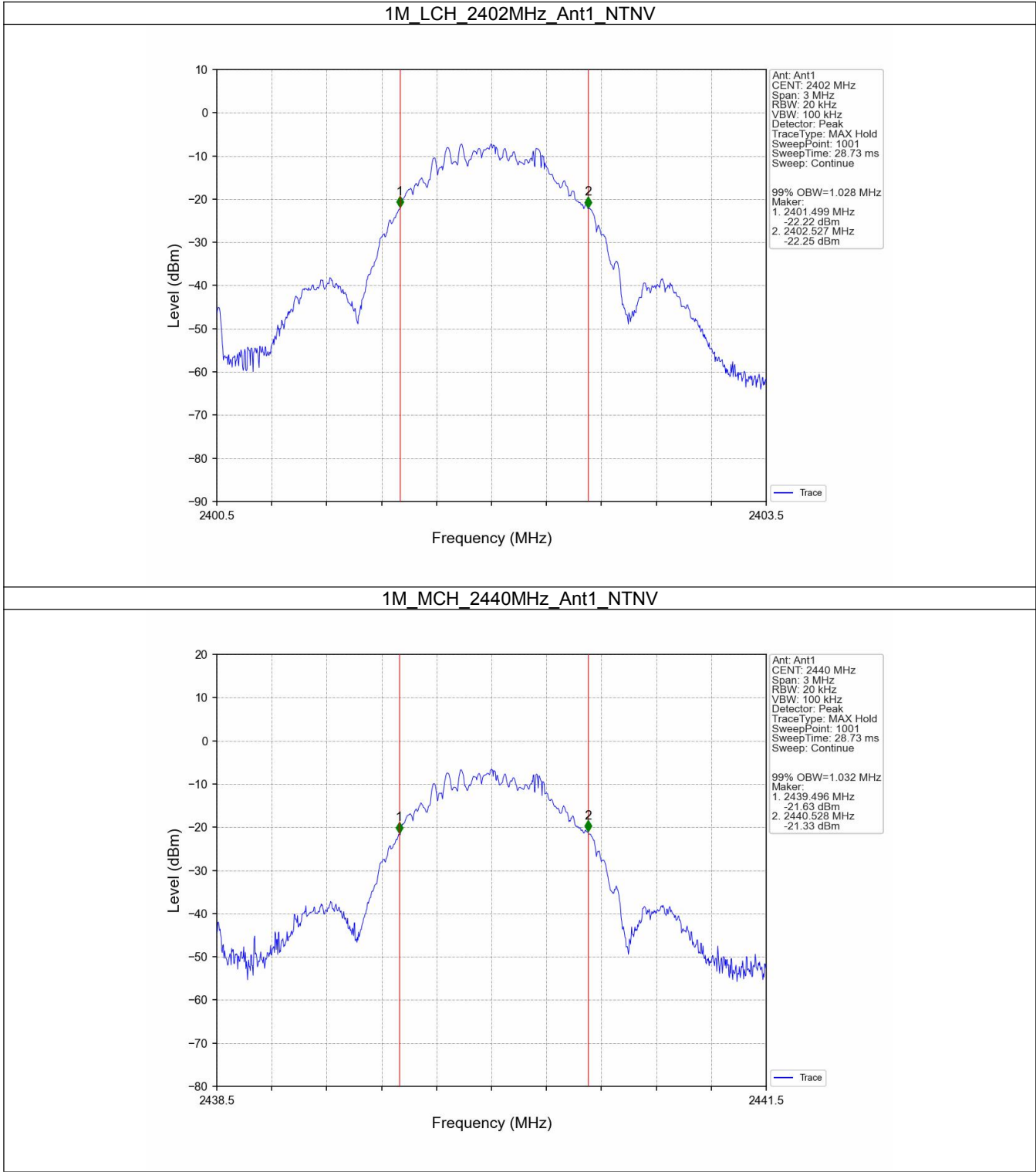
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.658	≥ 0.5	Pass
		2440	1	0.668	≥ 0.5	Pass
		2480	1	0.663	≥ 0.5	Pass

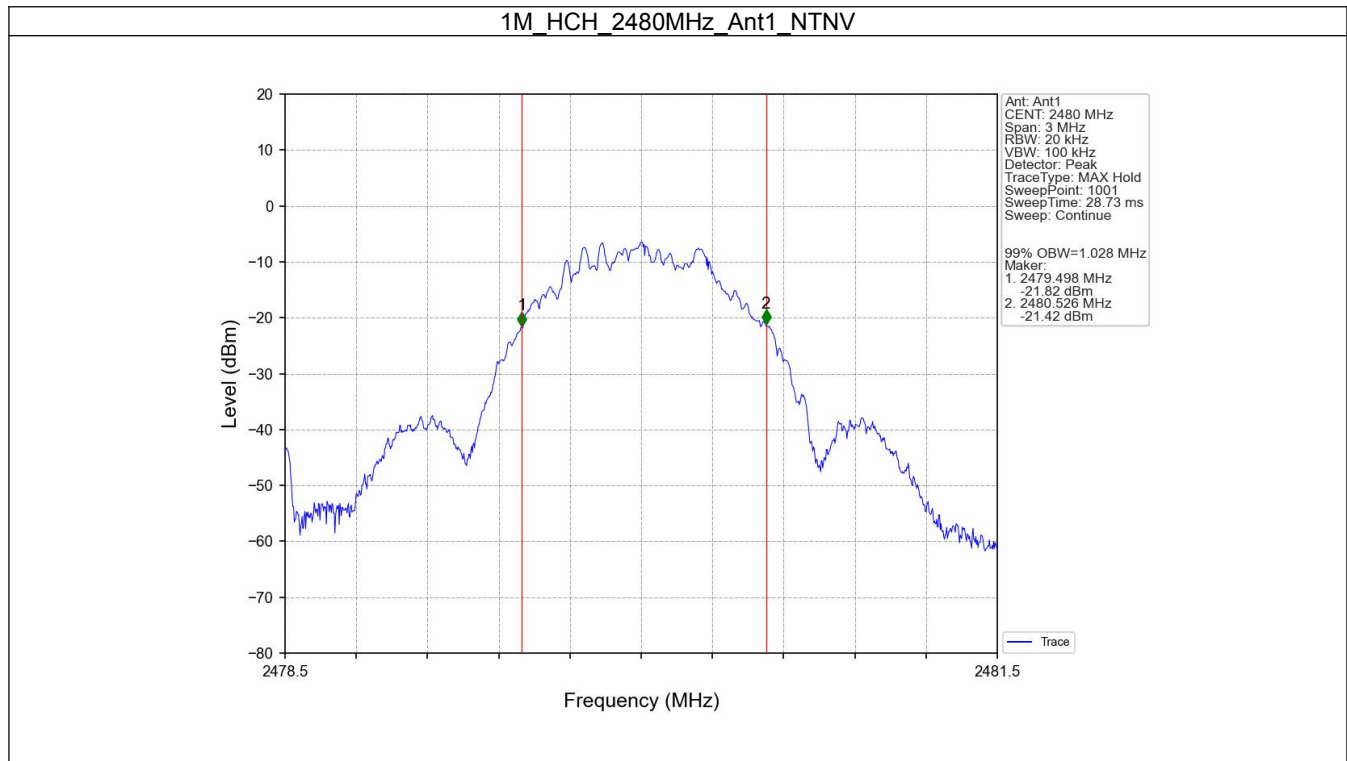
FCC ID: 2BVN2-B58A

2.2 Test Graph

2.2.1 OBW

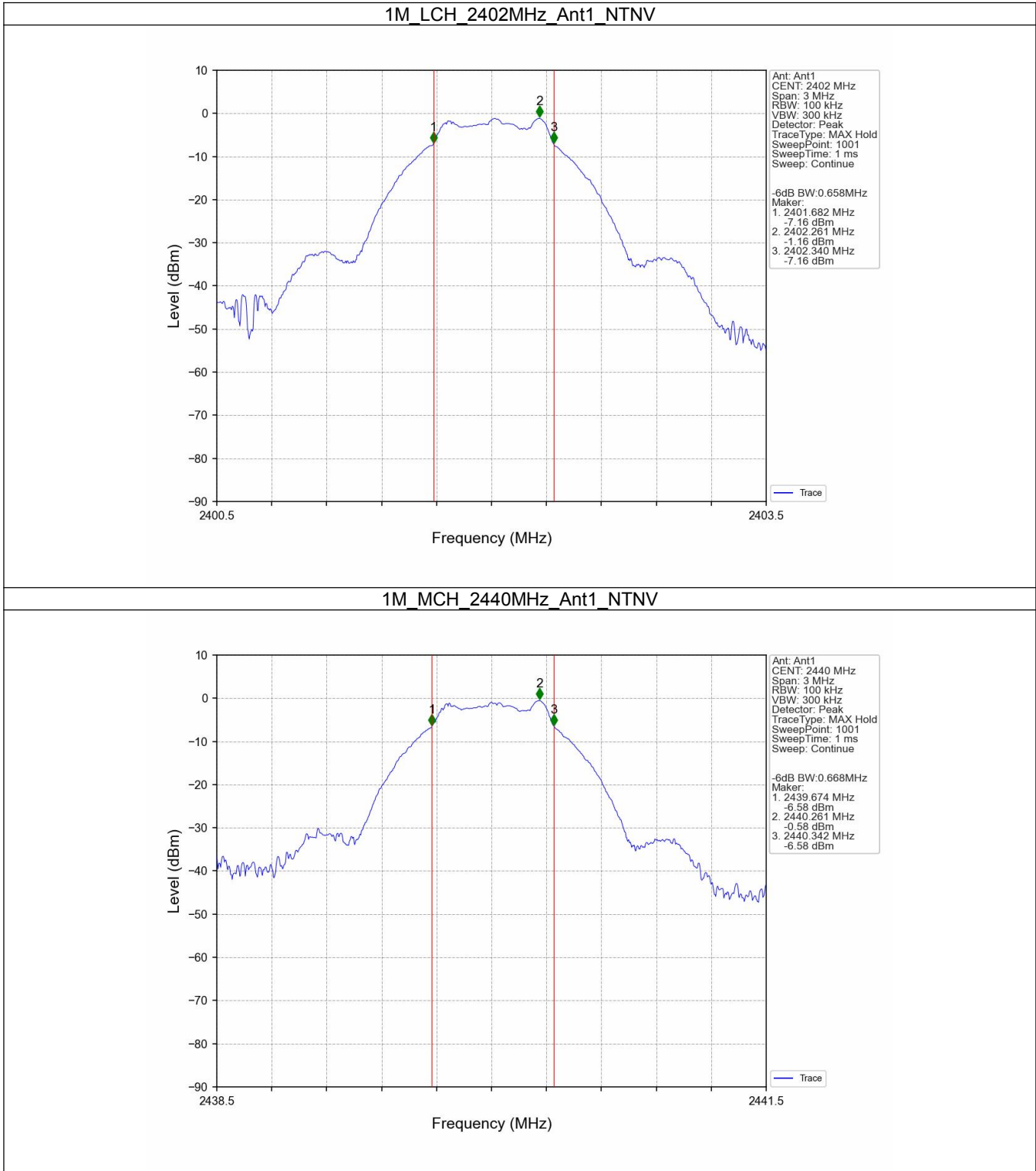


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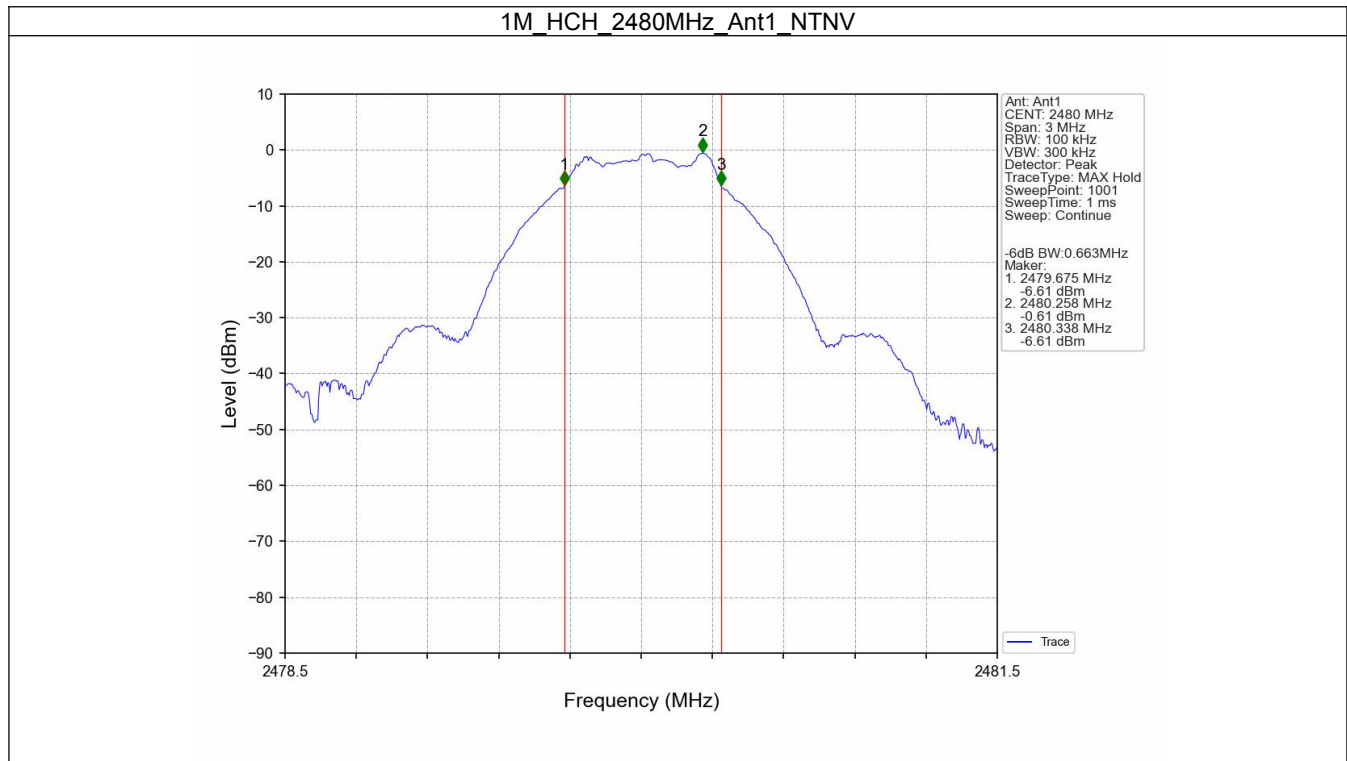


FCC ID: 2BVN2-B58A

2.2.2 6dB BW



FCC ID: 2BVN2-B58A



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3. Maximum Conducted Output Power

3.1 Test Result

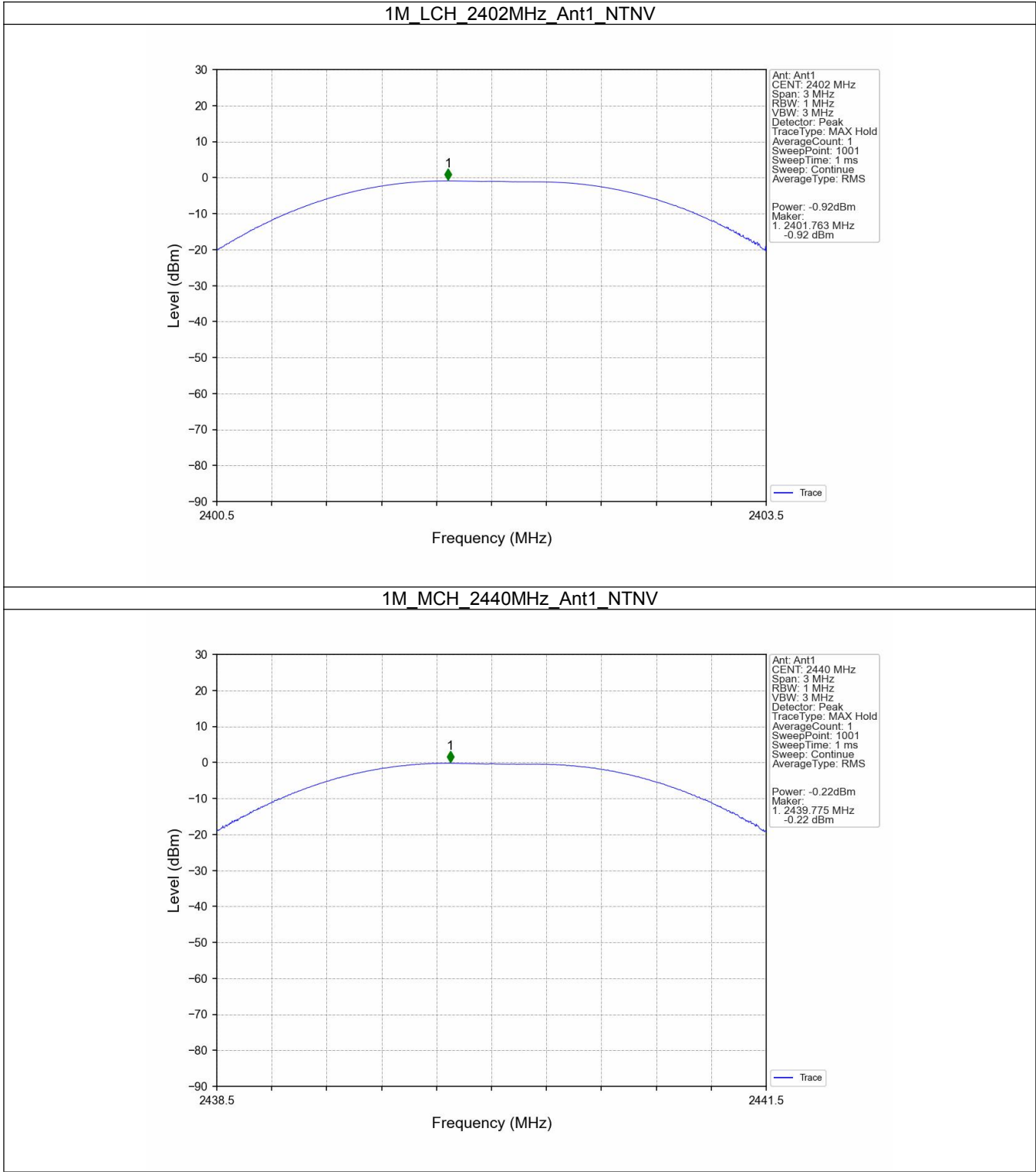
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-0.92	<=30	Pass
		2440	-0.22	<=30	Pass
		2480	-0.34	<=30	Pass
Note1: Antenna Gain: Ant1: -2.41dBi; Note2: RF Cable loss=0.5dB Note3: The test results include RF Cable loss.					

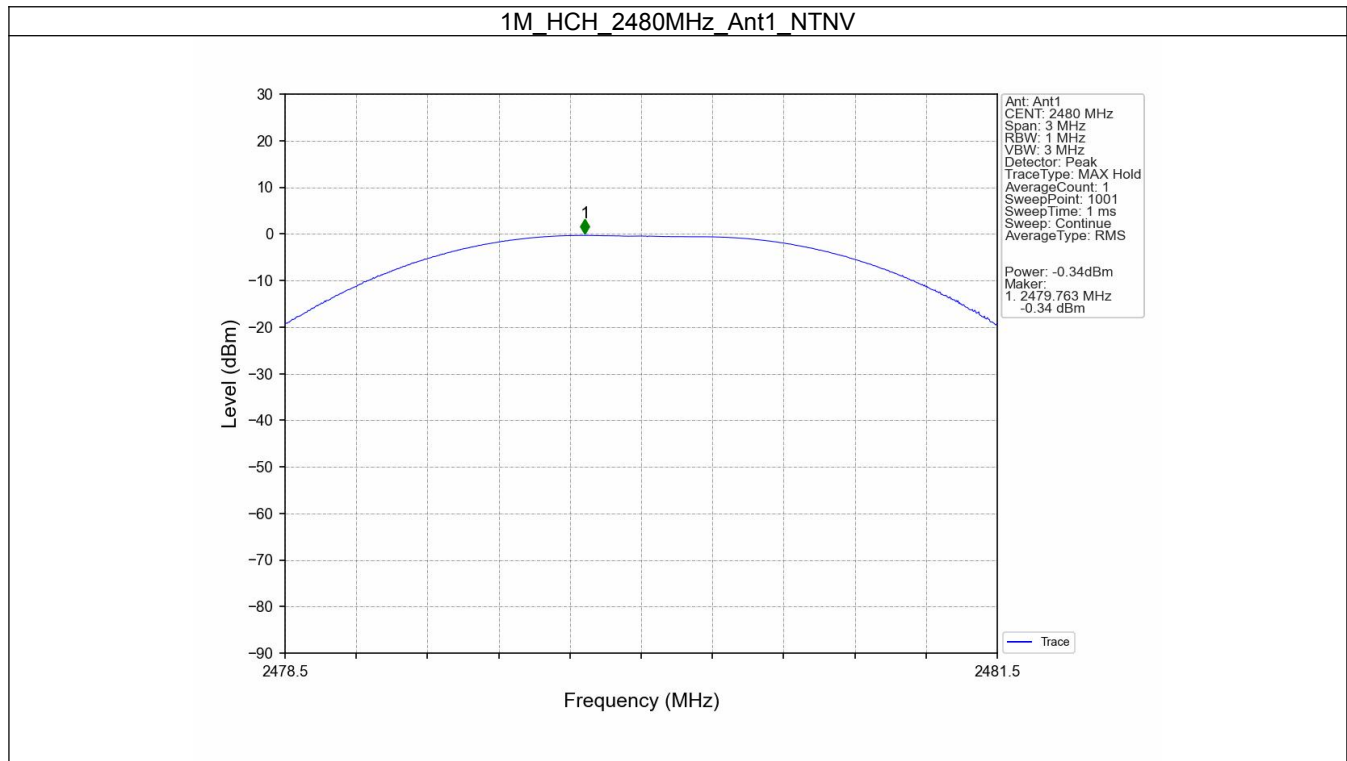
FCC ID: 2BVN2-B58A

3.2 Test Graph

3.2.1 Power



FCC ID: 2BVN2-B58A



FCC ID: 2BVN2-B58A

4. Maximum Power Spectral Density

4.1 Test Result

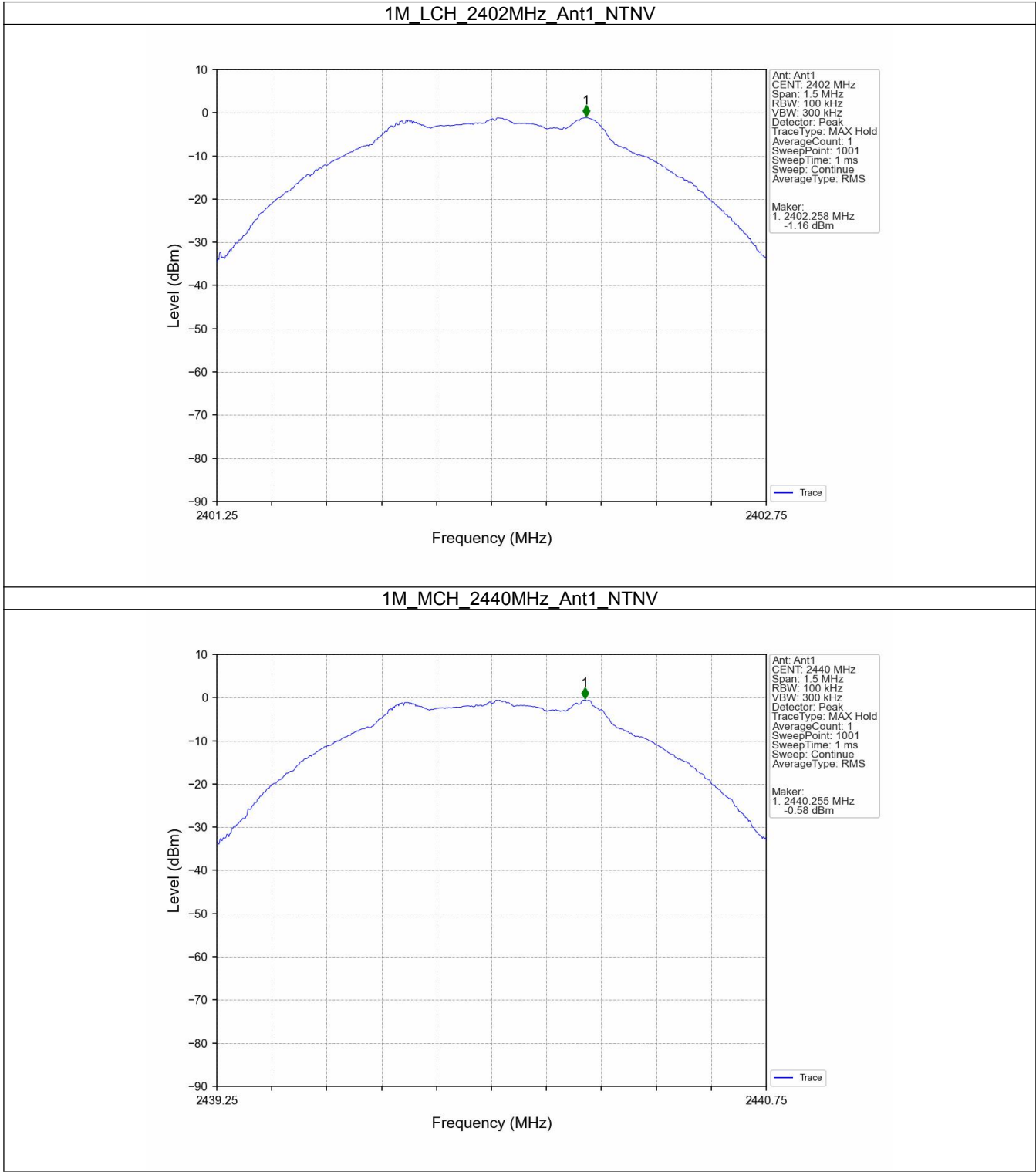
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-1.16	<=8	Pass
		2440	-0.58	<=8	Pass
		2480	-0.61	<=8	Pass
Note1: Antenna Gain: Ant1: -2.41dBi; Note2: RF Cable loss=0.5dB Note3: The test results include RF Cable loss.					

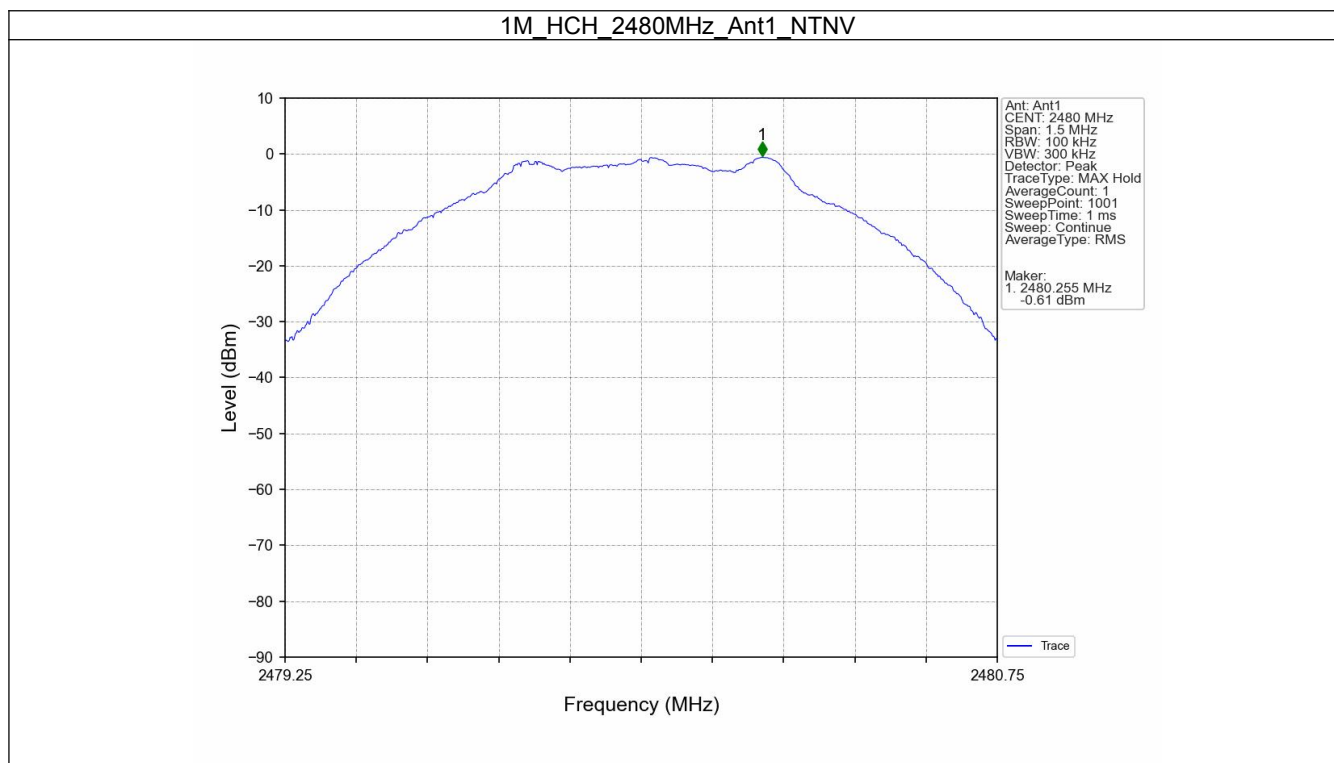
FCC ID: 2BVN2-B58A

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	-1.16
		2440	1	-0.57
		2480	1	-0.61

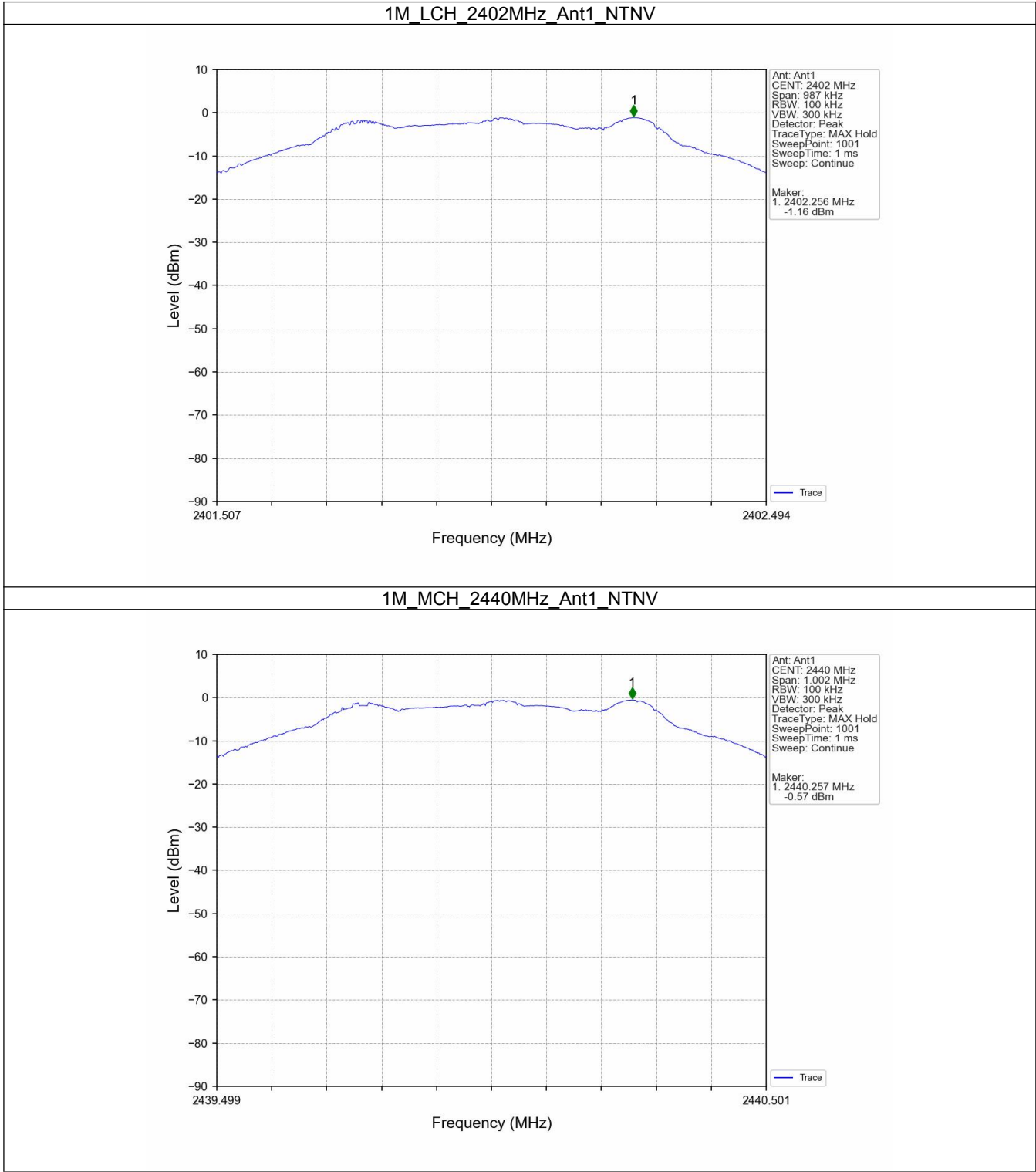
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-0.57	-20.57	Pass
		2440	1	-0.57	-20.57	Pass
		2480	1	-0.57	-20.57	Pass

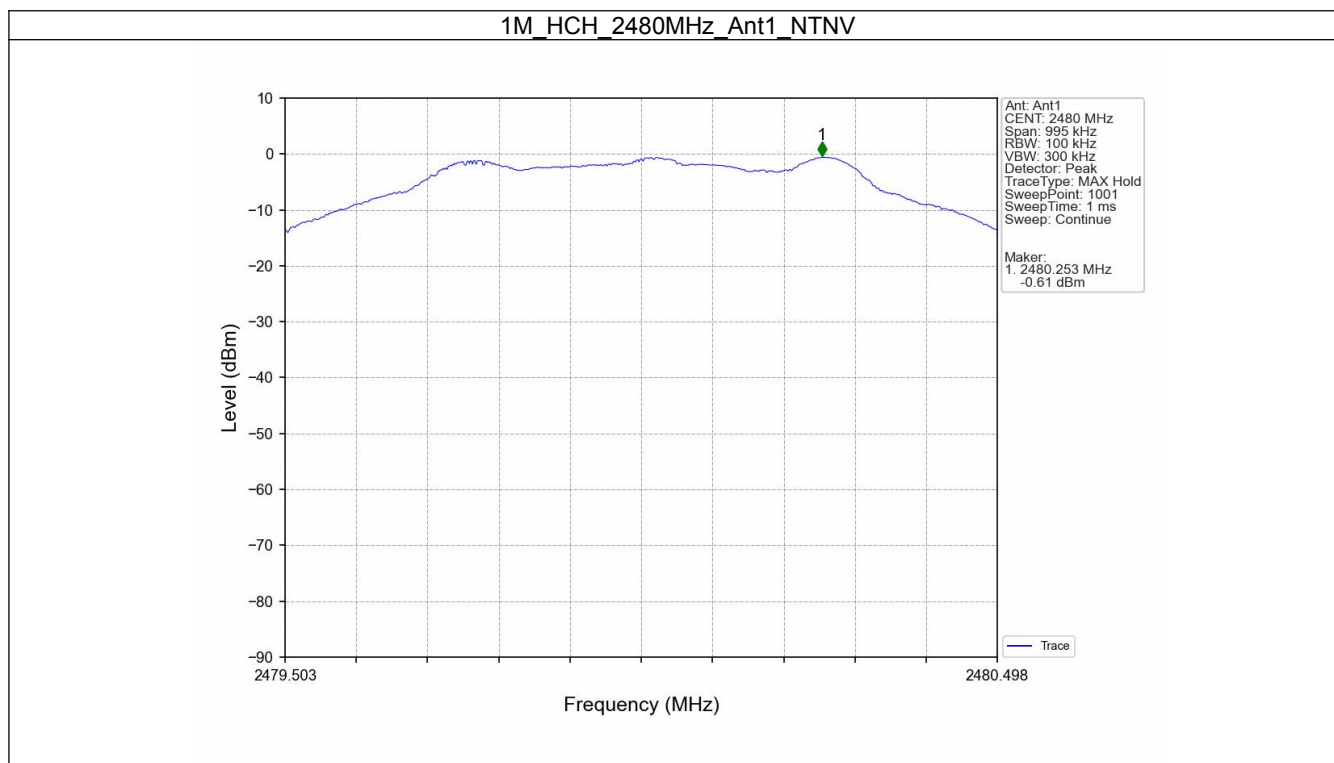
FCC ID: 2BVN2-B58A

5.2 Test Graph

5.2.1 Ref

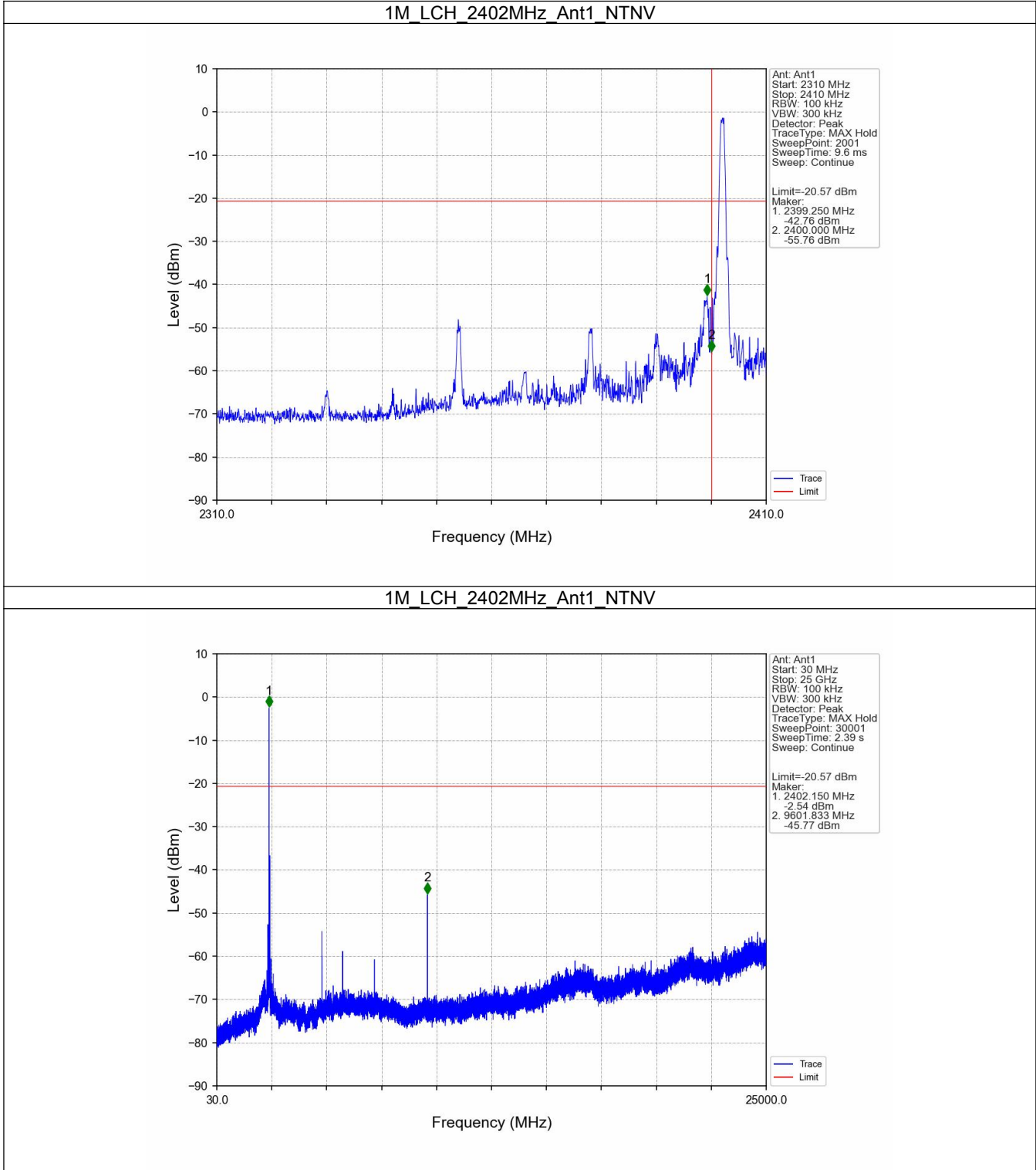


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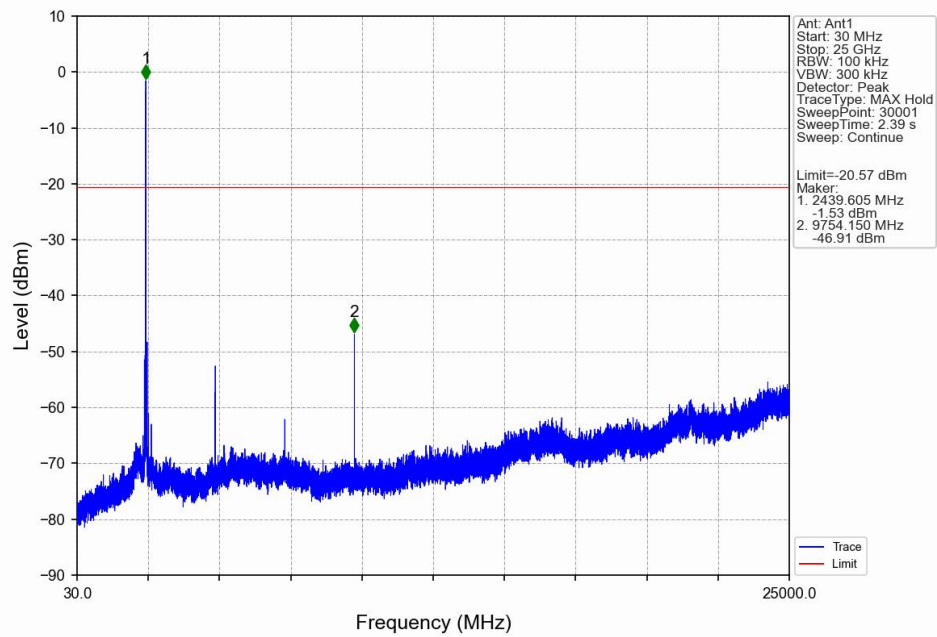
FCC ID: 2BVN2-B58A

5.2.2 CSE

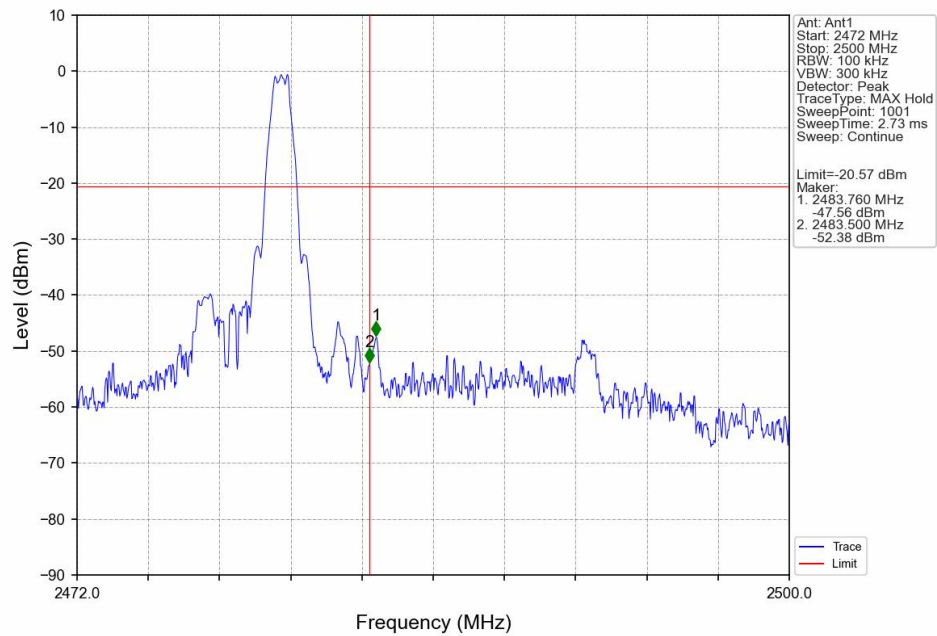


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1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



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