

Appendix A for SHCR220100018601

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

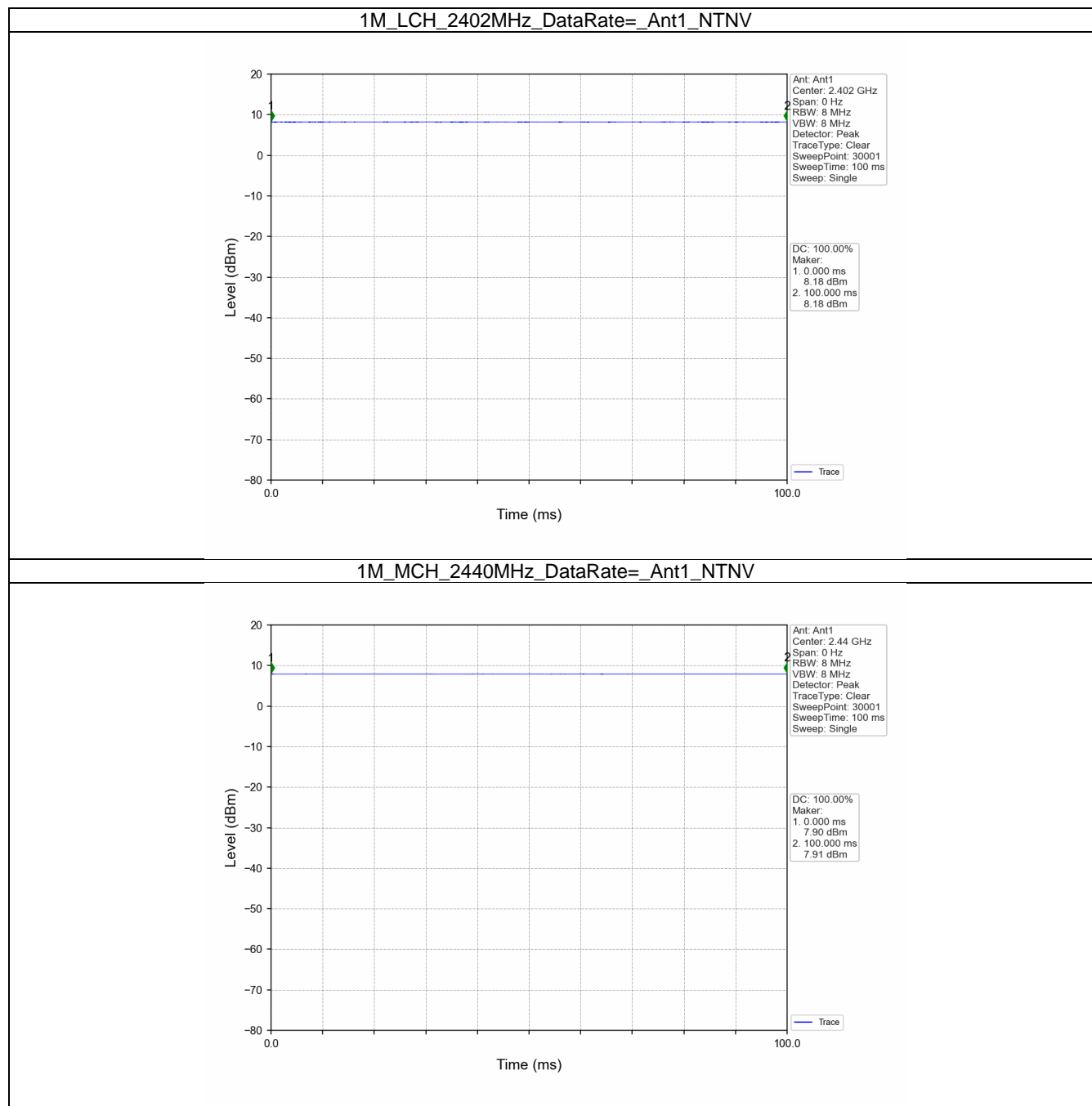
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00
2M	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00



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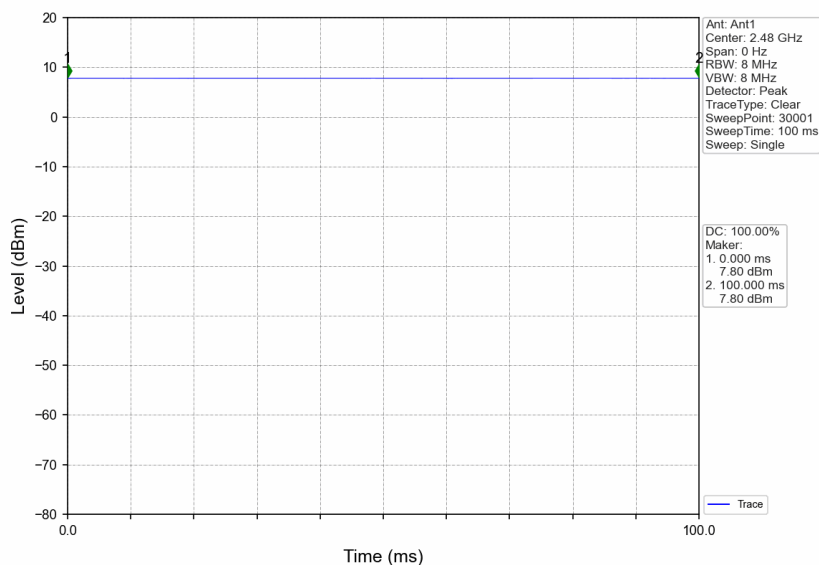
1.1.2 Test Graph



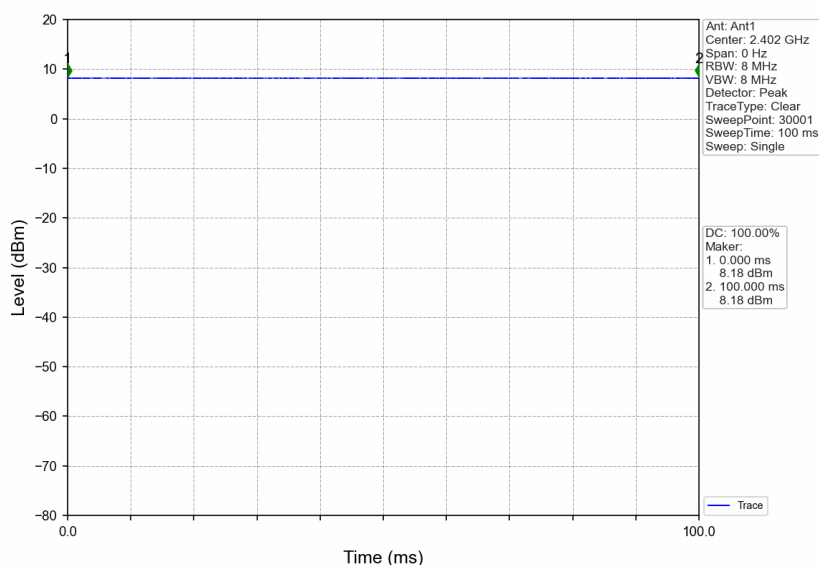
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1M_HCH_2480MHz_DataRate=_Ant1_NTNV



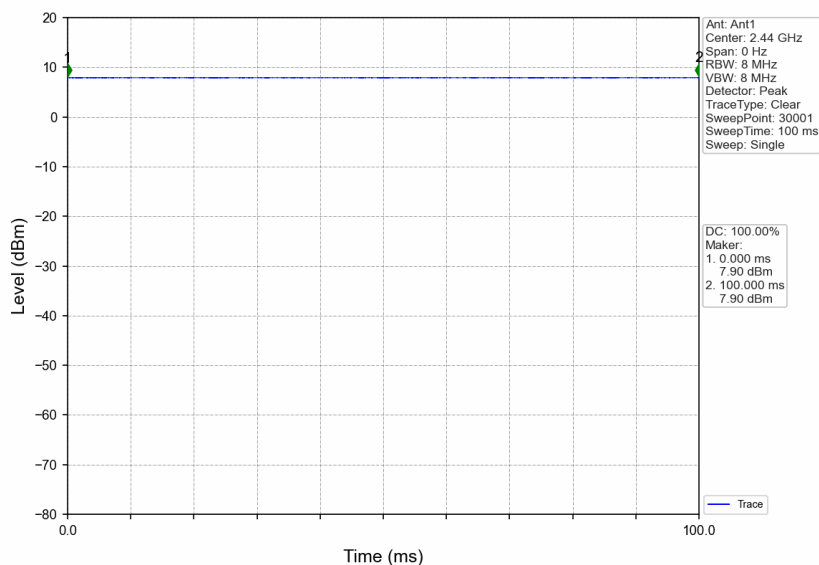
2M_LCH_2402MHz_DataRate=_Ant1_NTNV



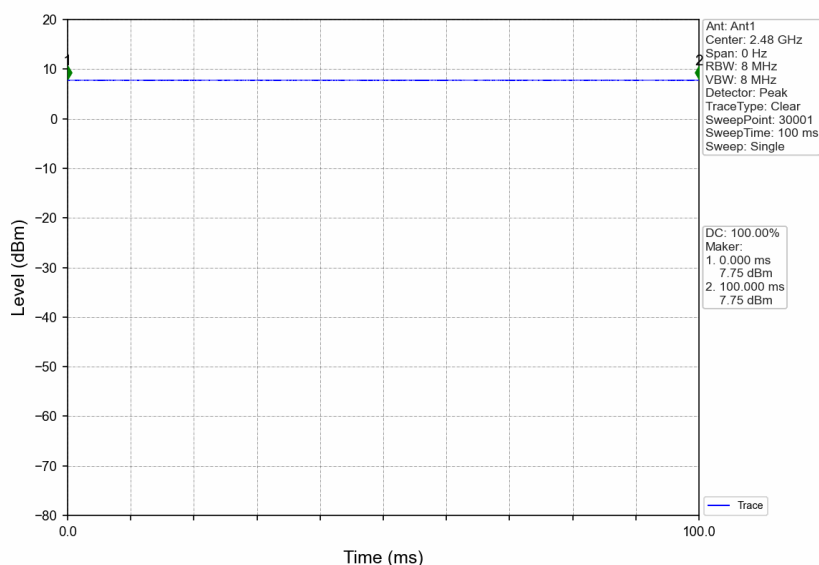
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.016	Pass
		2440	1	1.021	Pass
		2480	1	1.012	Pass
2M	SISO	2402	1	2.042	Pass
		2440	1	2.044	Pass
		2480	1	2.048	Pass



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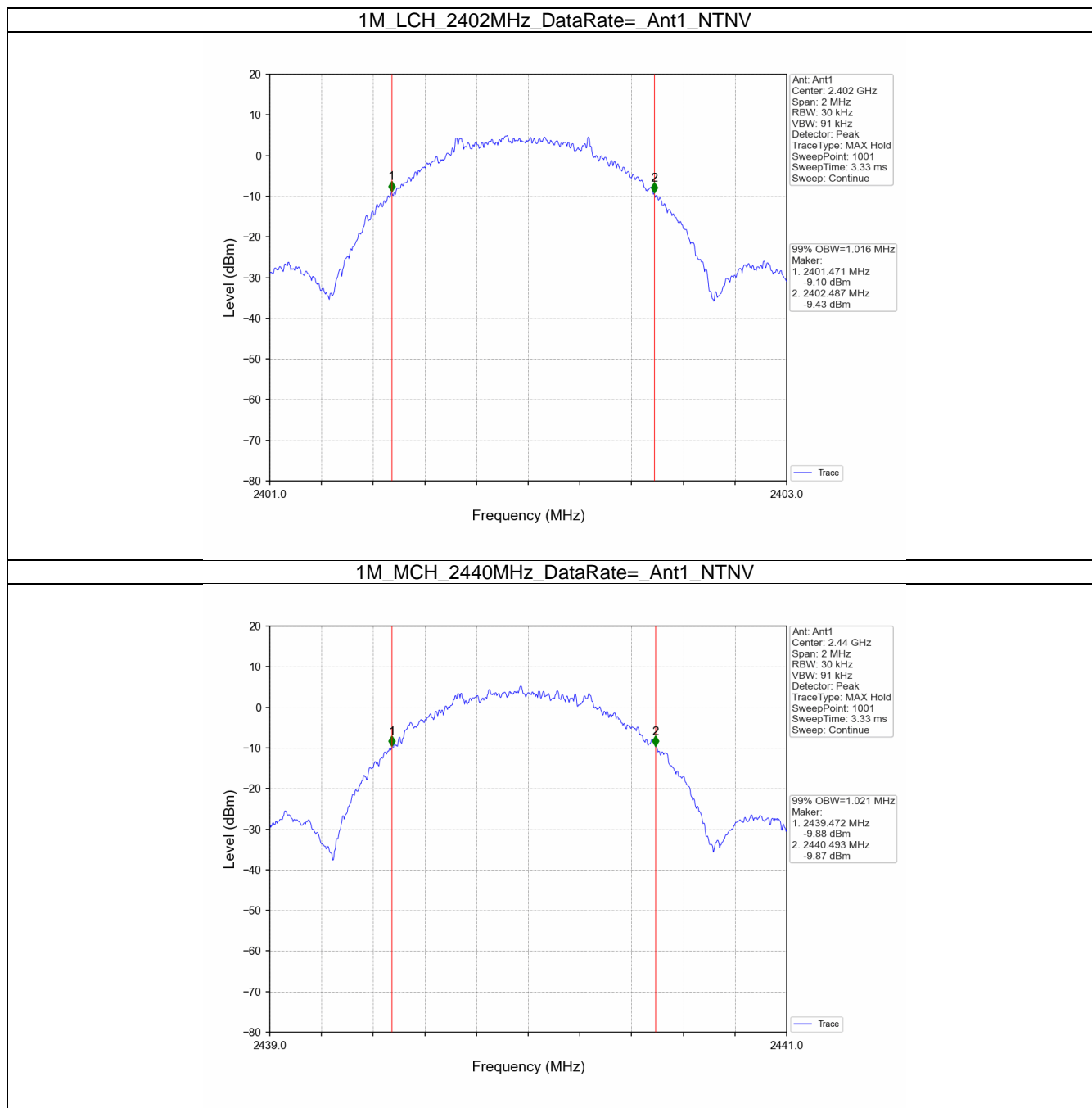
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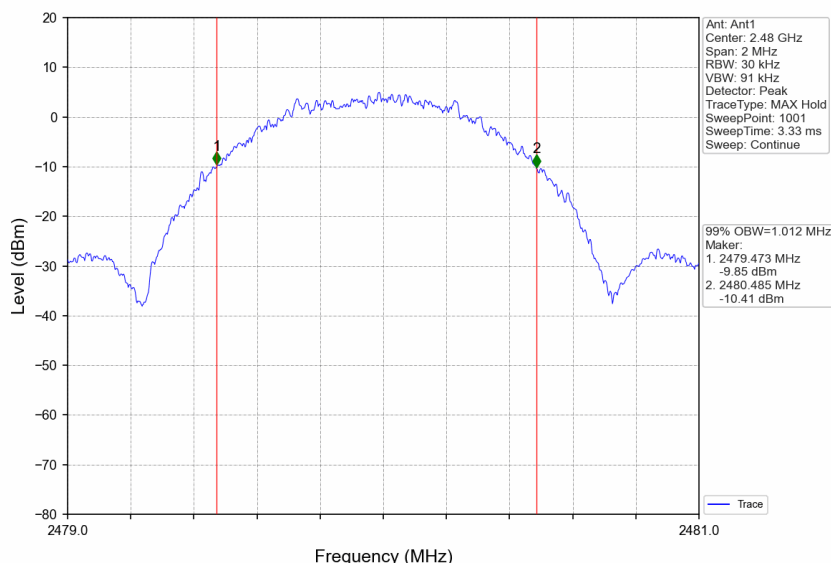
2.1.2 Test Graph



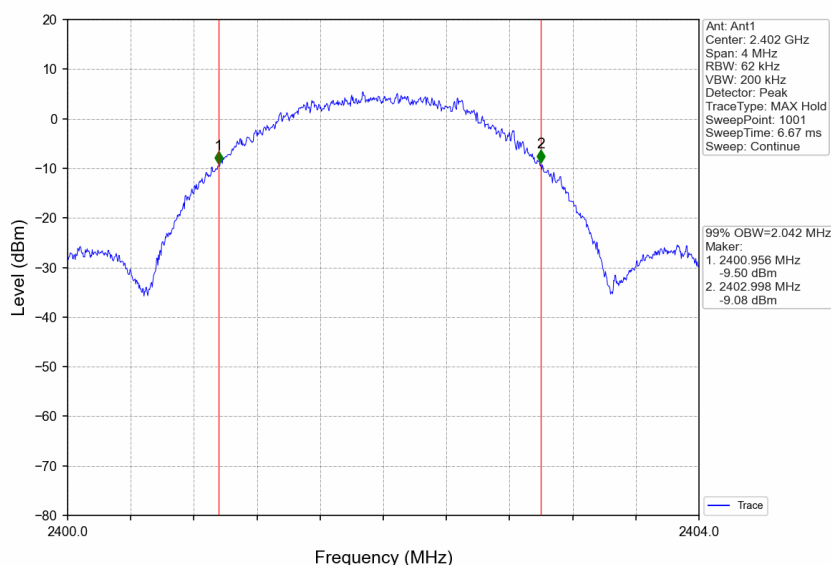
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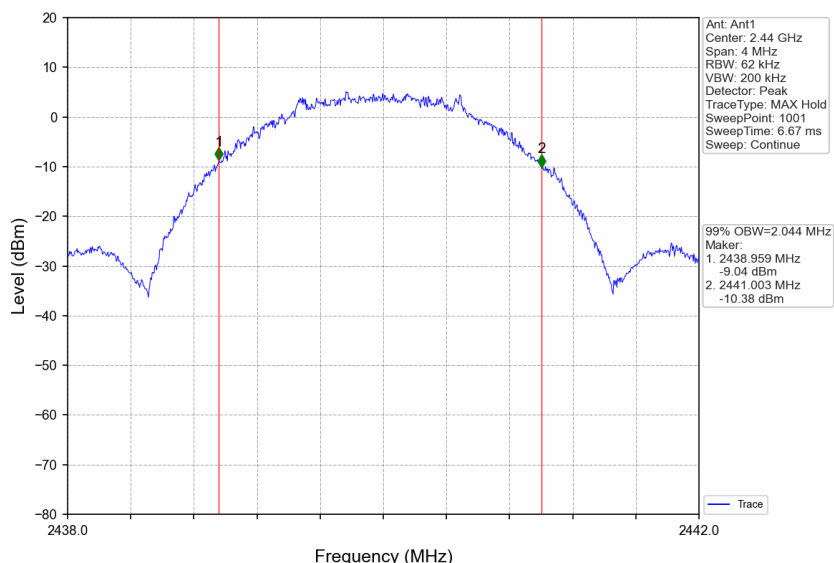
2M_LCH_2402MHz_DataRate=_Ant1_NTNV



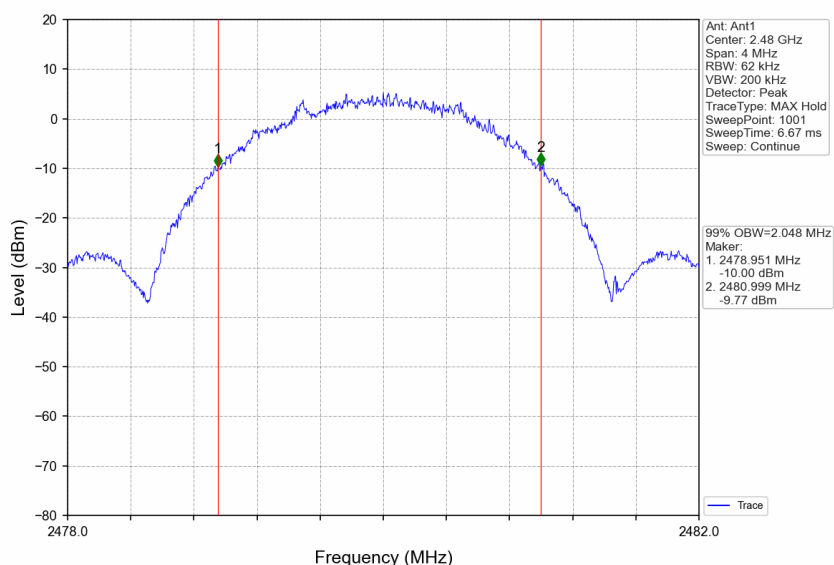
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2.2 6dB BW

2.2.1 Test Result

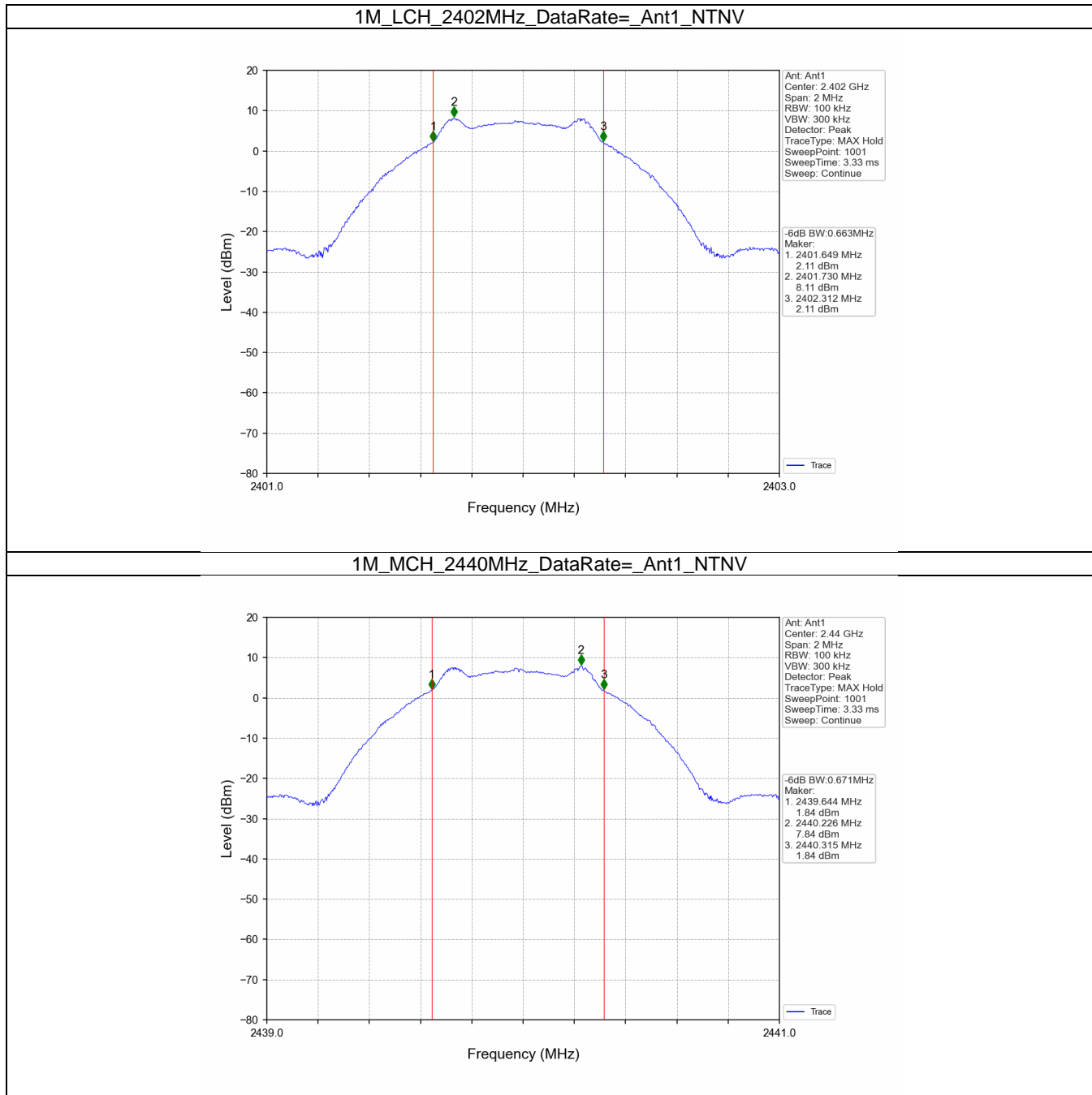
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.663	≥ 0.5	Pass
		2440	1	0.671	≥ 0.5	Pass
		2480	1	0.672	≥ 0.5	Pass
2M	SISO	2402	1	1.368	≥ 0.5	Pass
		2440	1	1.385	≥ 0.5	Pass
		2480	1	1.371	≥ 0.5	Pass



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2.2.2 Test Graph



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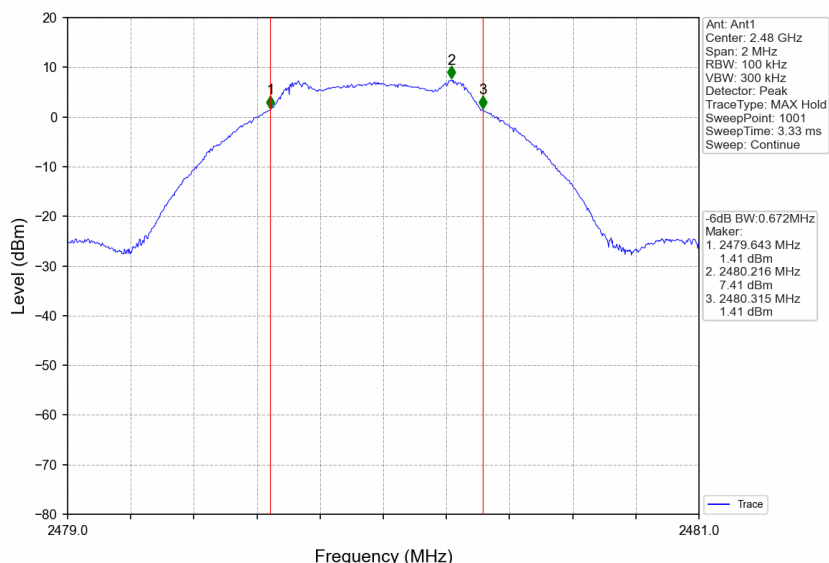
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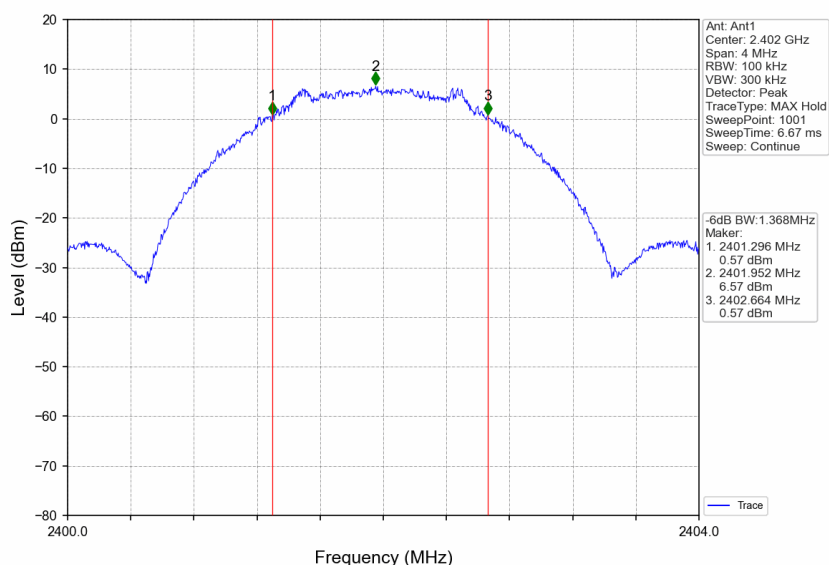
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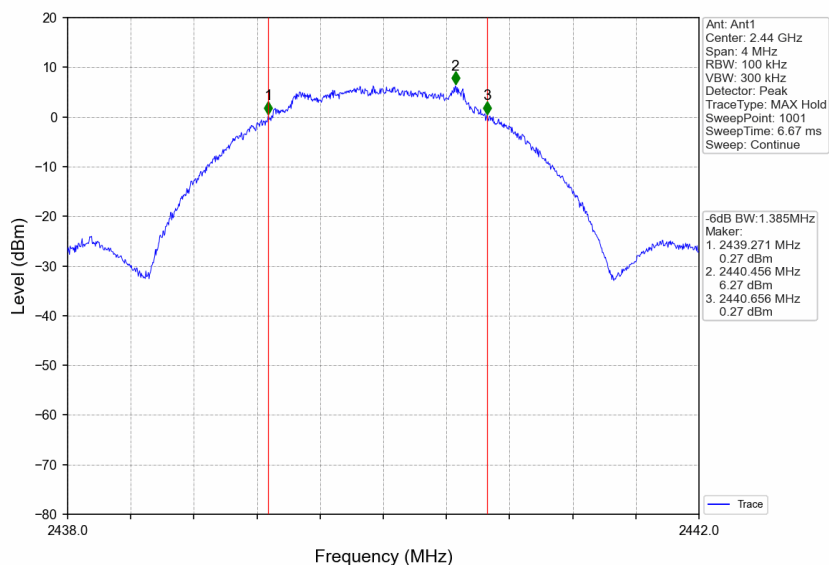
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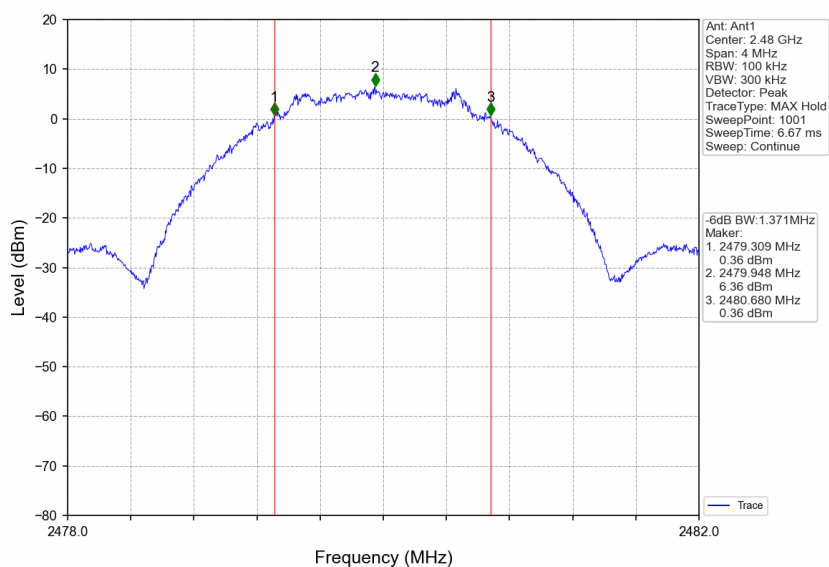
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
1M	SISO	2402	8.18	<=30	Pass
		2440	7.91	<=30	Pass
		2480	7.79	<=30	Pass
2M	SISO	2402	8.18	<=30	Pass
		2440	7.90	<=30	Pass
		2480	7.75	<=30	Pass

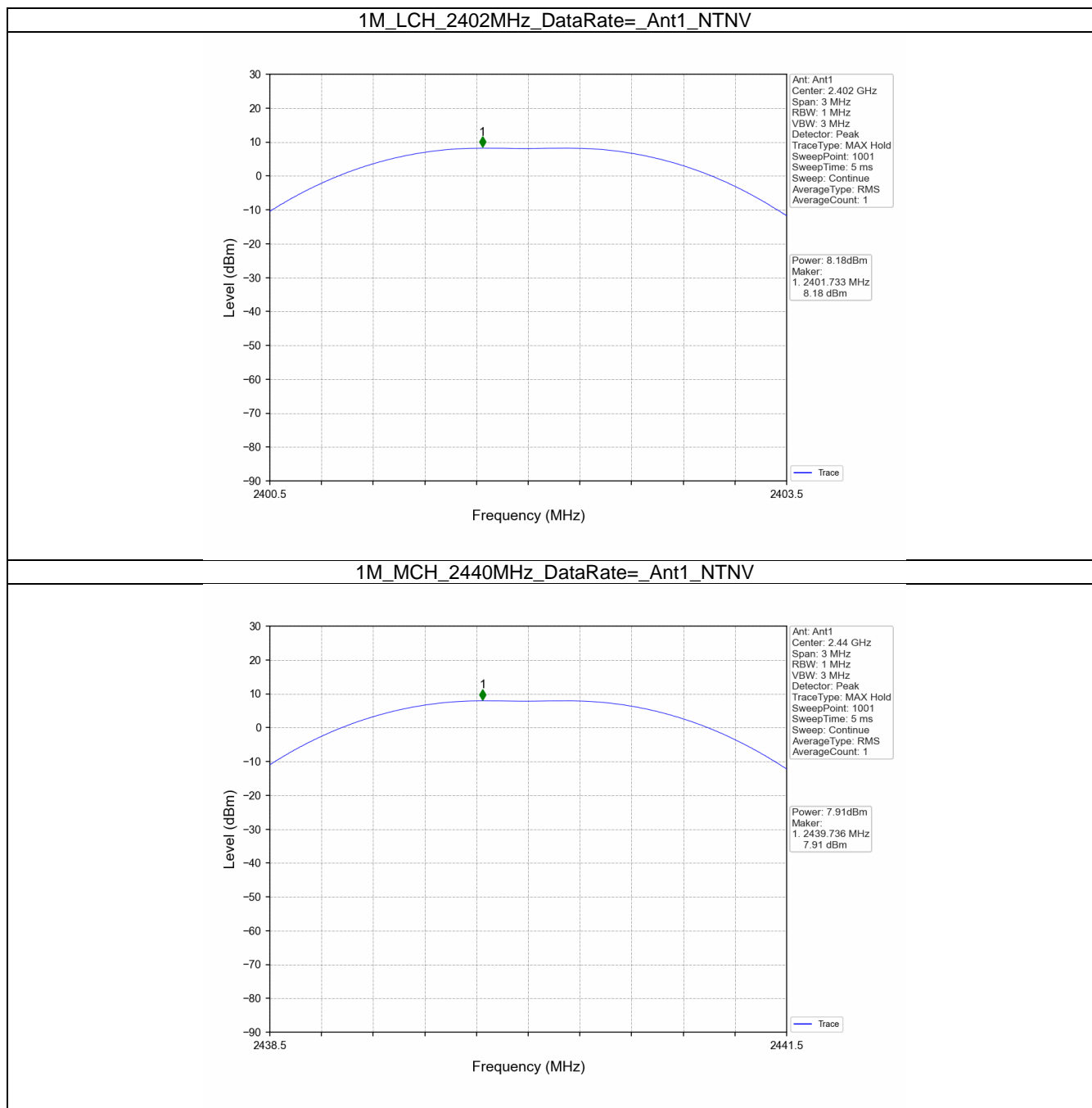
Note1: Antenna Gain: Ant1: 4.10dBi;



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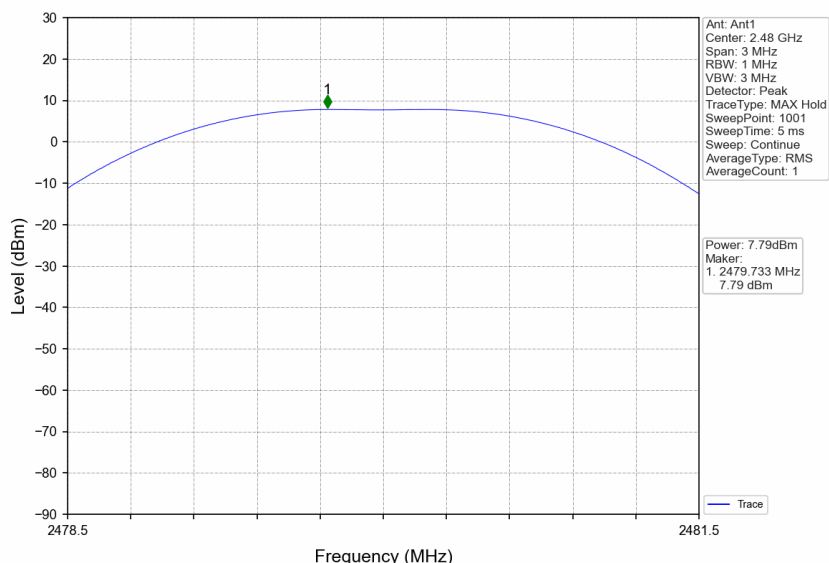
3.1.2 Test Graph



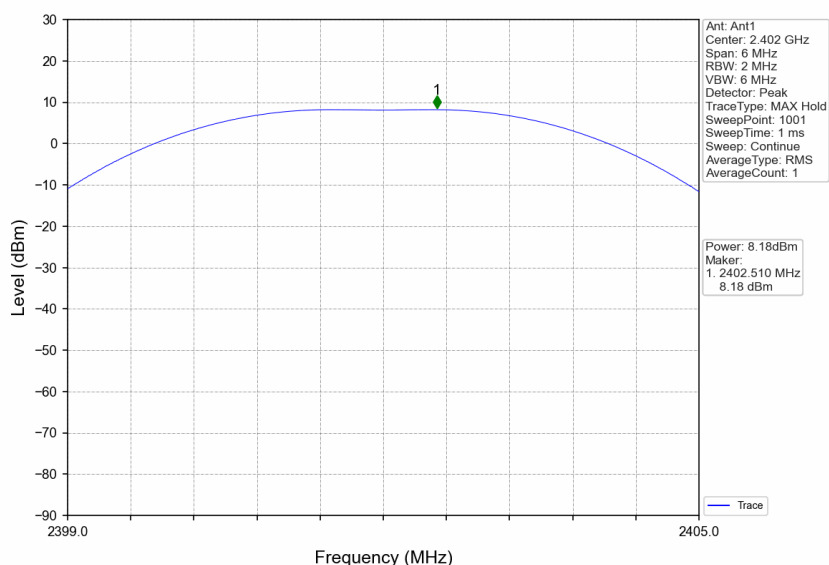
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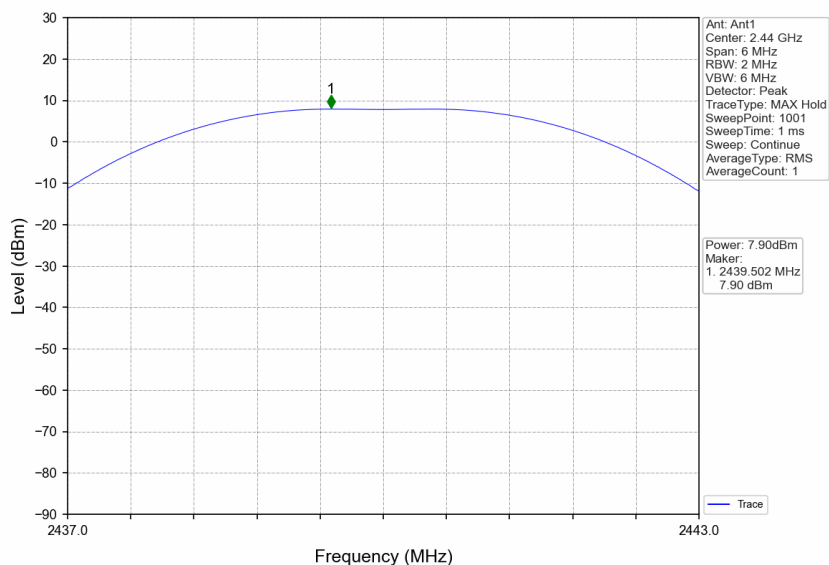
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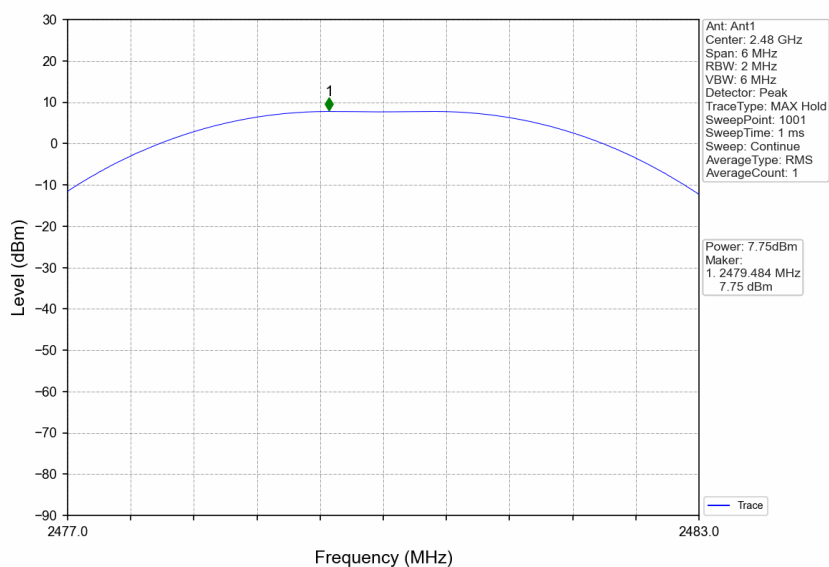
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
1M	SISO	2402	-1.30	<=8	Pass
		2440	-2.14	<=8	Pass
		2480	-2.98	<=8	Pass
2M	SISO	2402	-4.45	<=8	Pass
		2440	-6.39	<=8	Pass
		2480	-6.58	<=8	Pass

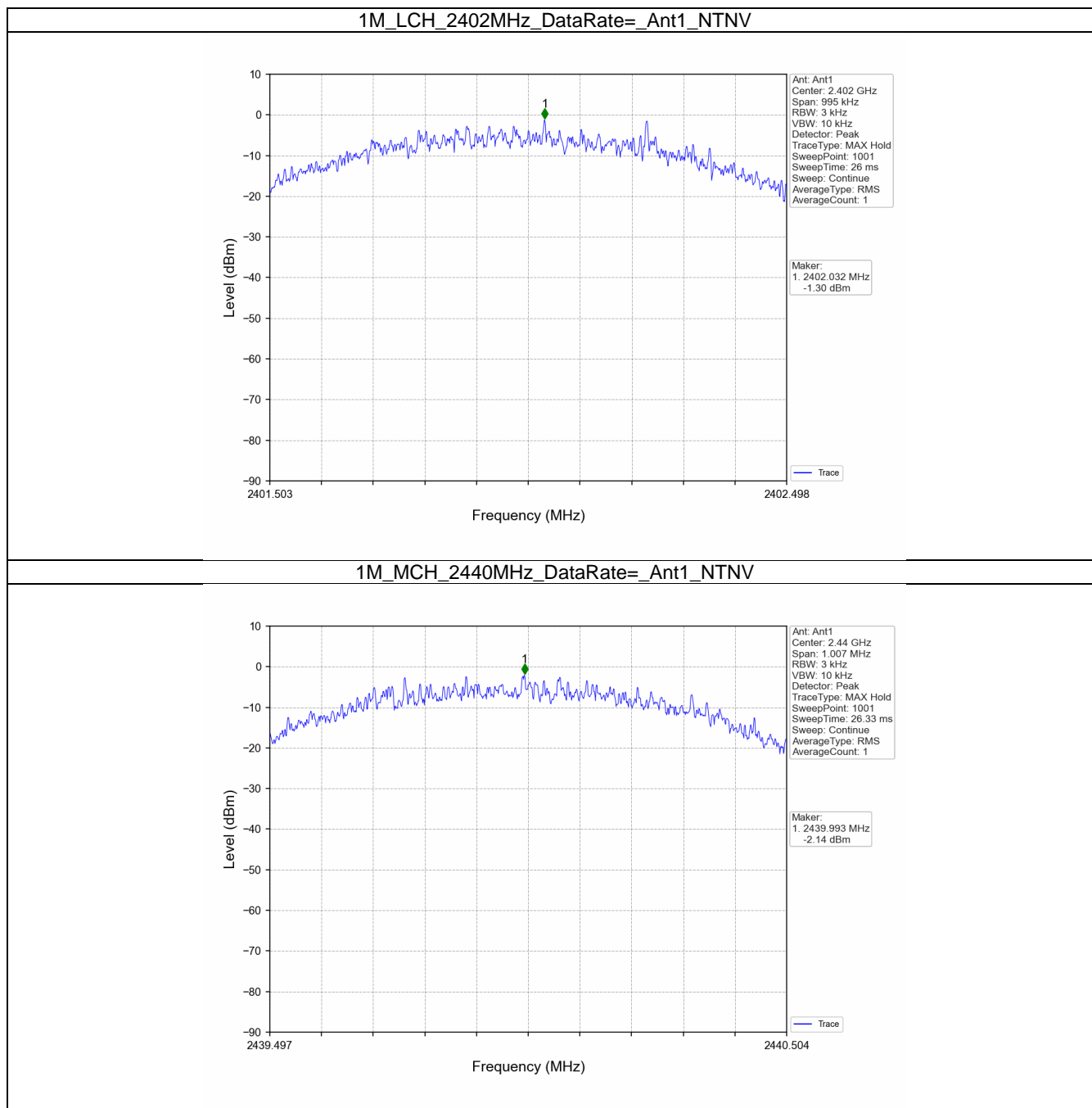
Note1: Antenna Gain: Ant1: 4.10dBi;



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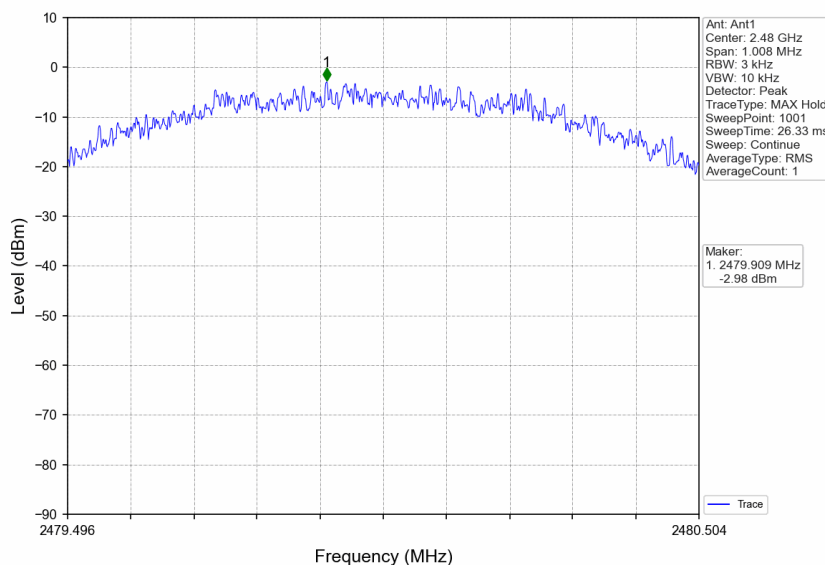
4.1.2 Test Graph



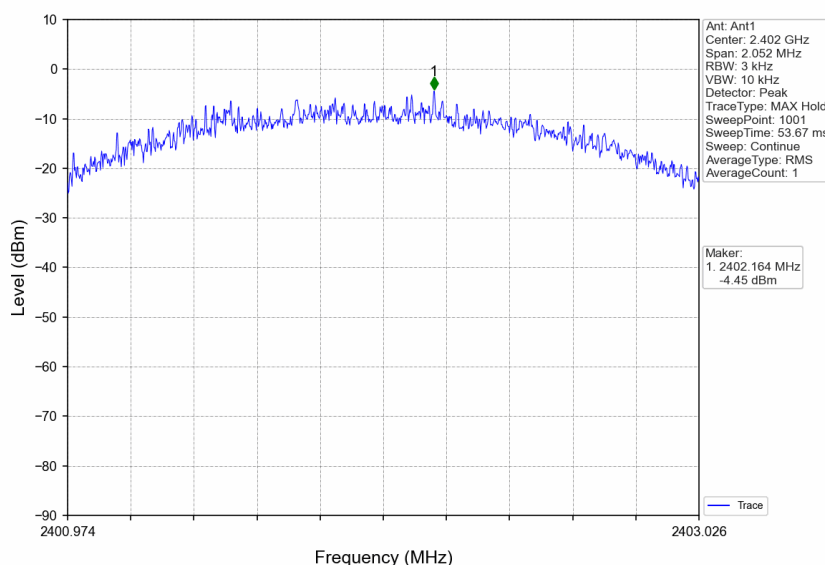
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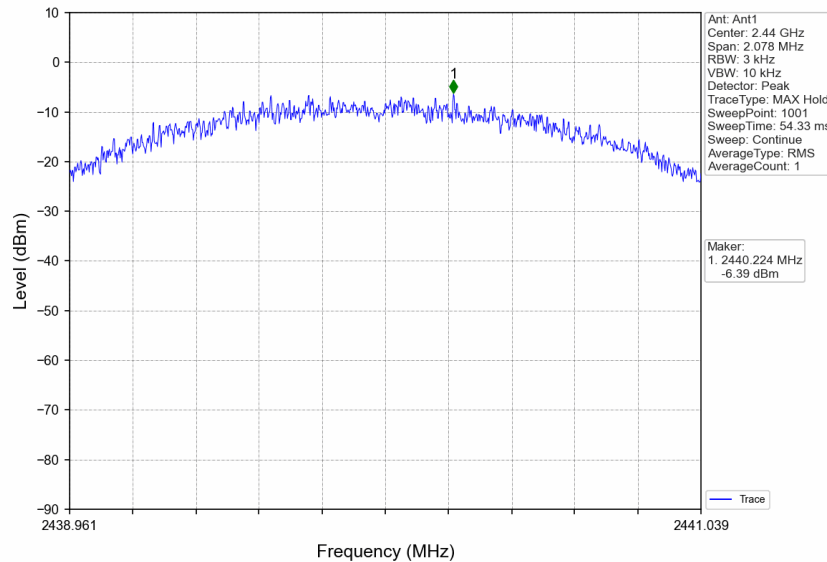
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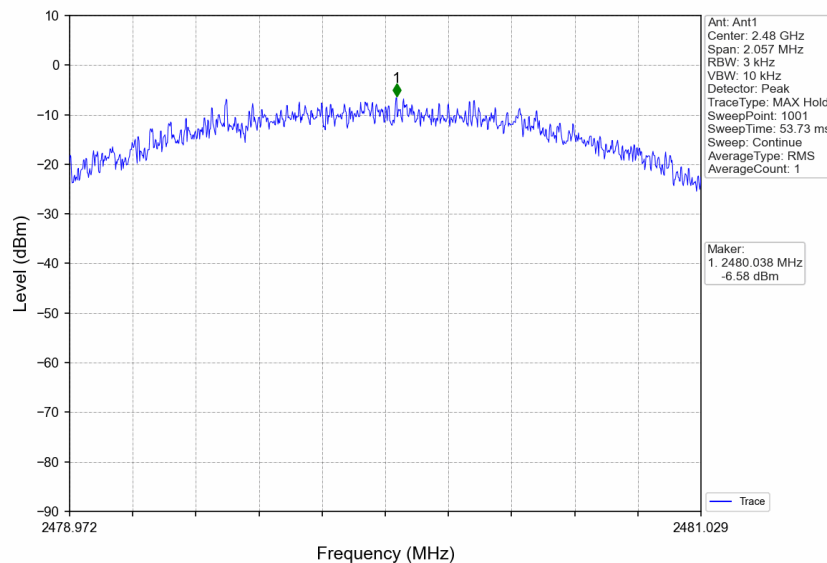
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2M_MCH_2440MHz_DataRate=_Ant1_NTNV



2M_HCH_2480MHz_DataRate=_Ant1_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

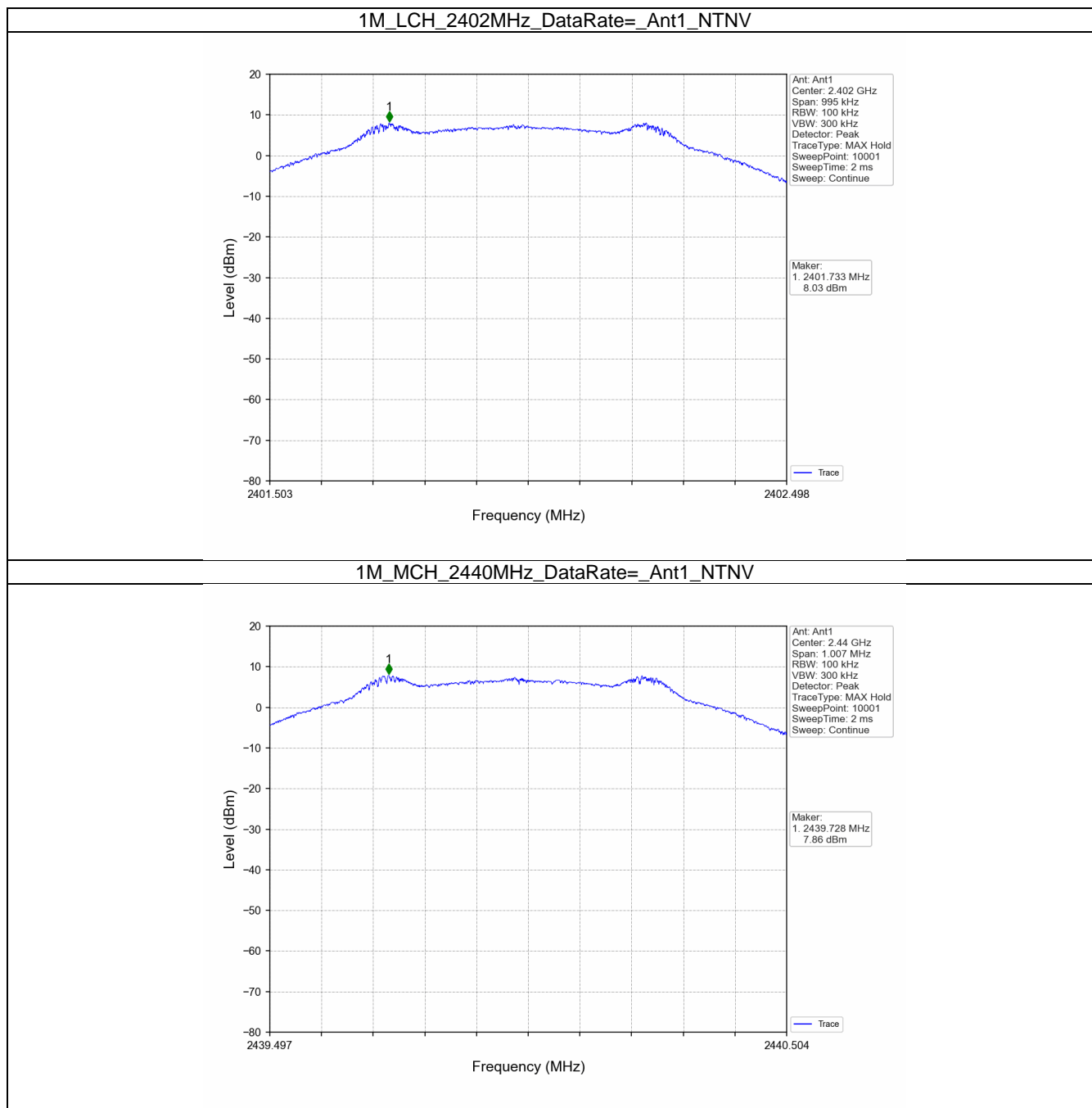
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
1M	SISO	2402	1	8.03
		2440	1	7.86
		2480	1	7.66
2M	SISO	2402	1	6.71
		2440	1	7.15
		2480	1	6.08

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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



5.1.2 Test Graph



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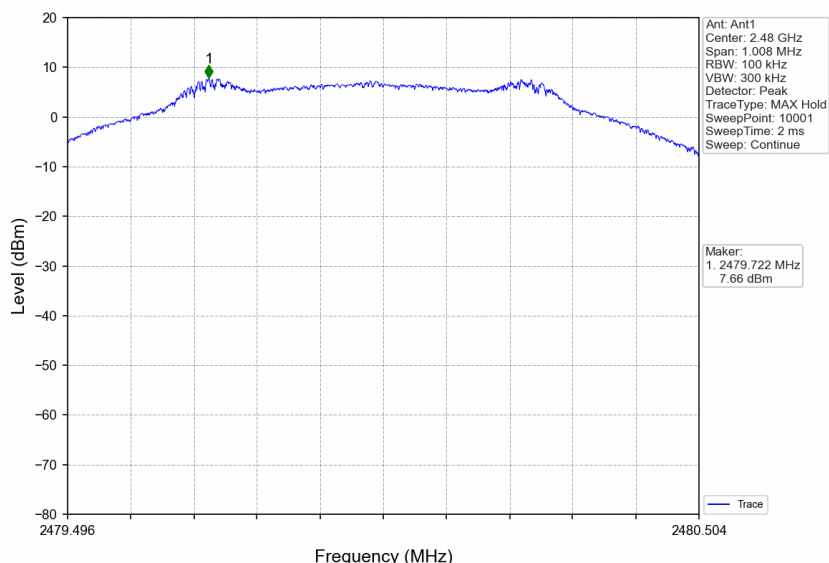
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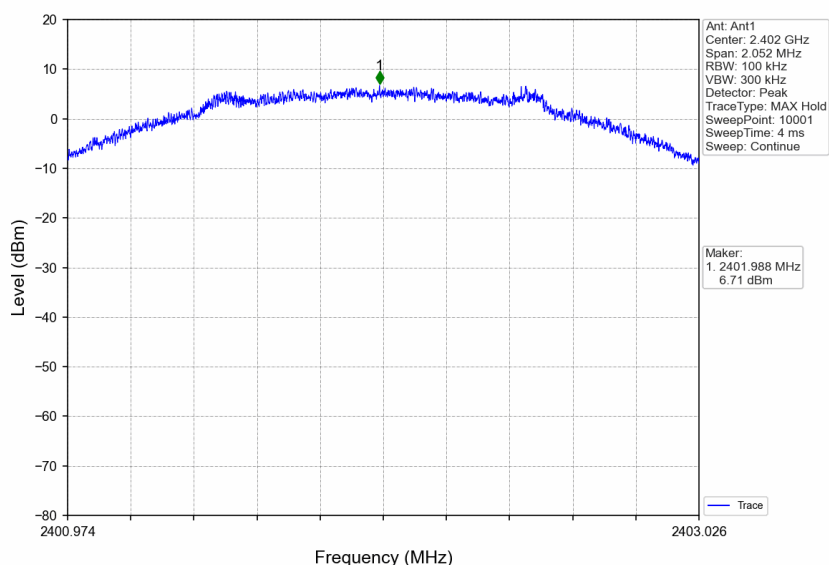
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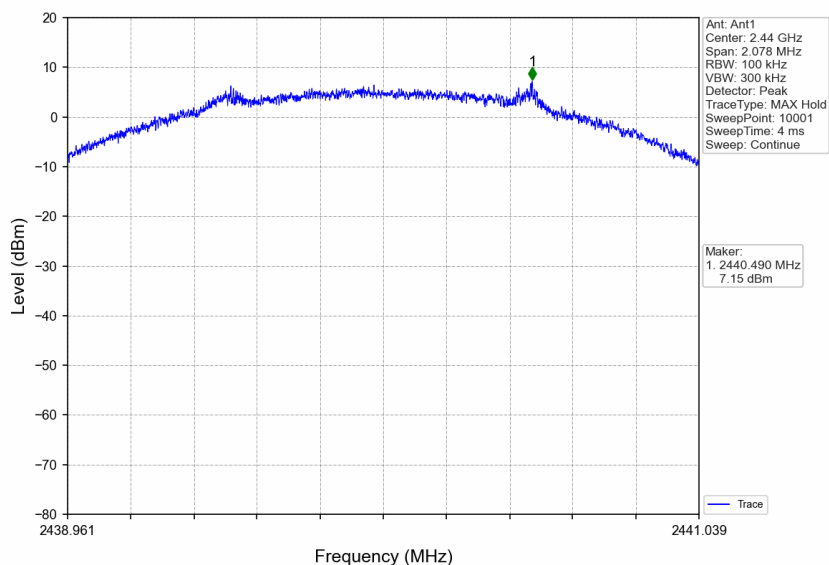
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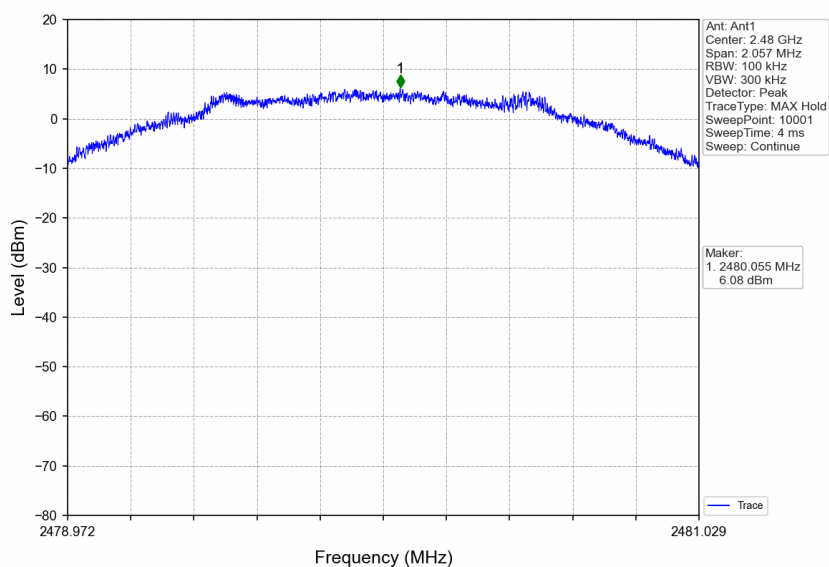
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	8.03	-11.97	Pass
		2440	1	8.03	-11.97	Pass
		2480	1	8.03	-11.97	Pass
2M	SISO	2402	1	7.15	-12.85	Pass
		2440	1	7.15	-12.85	Pass
		2480	1	7.15	-12.85	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.

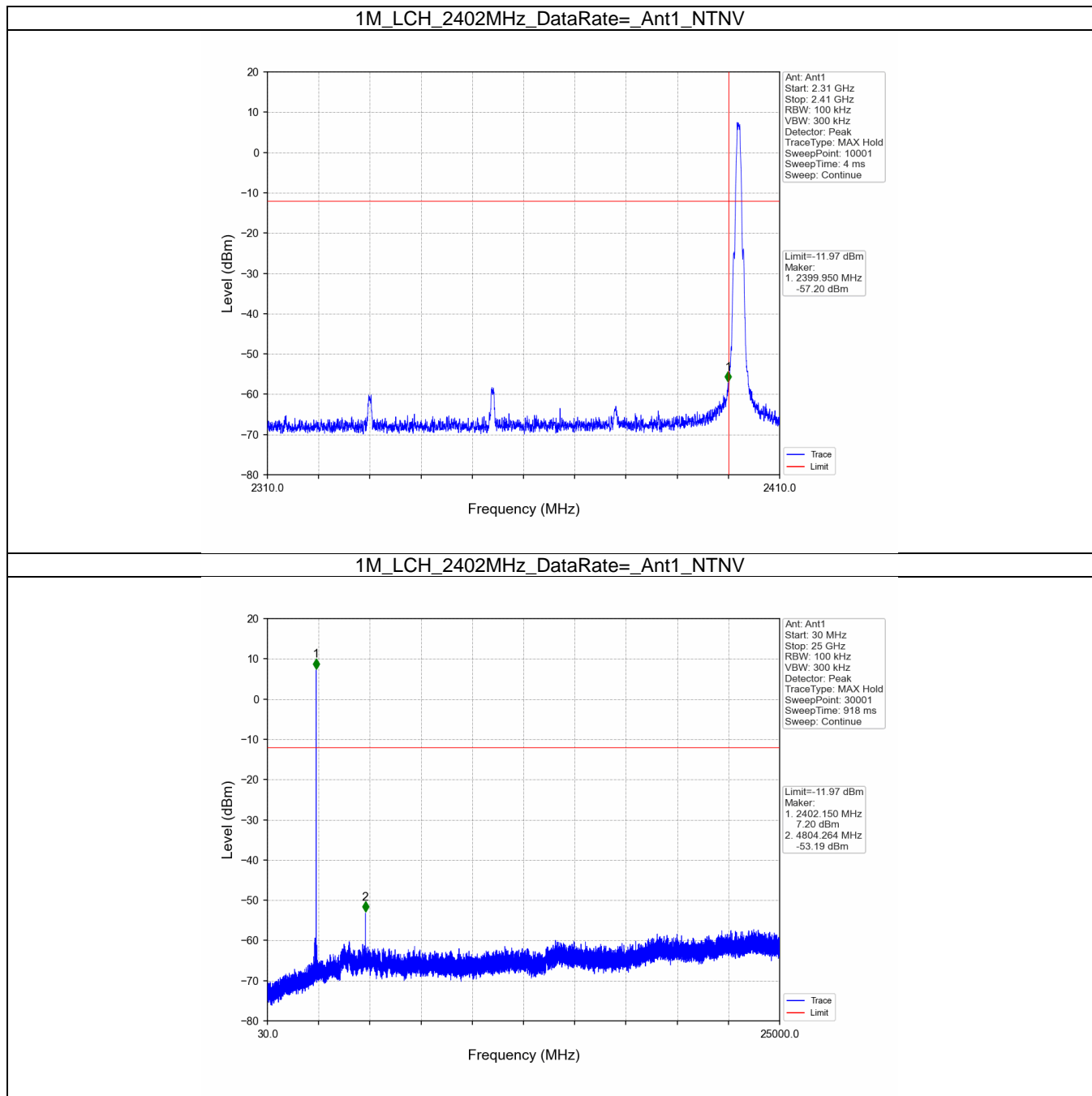
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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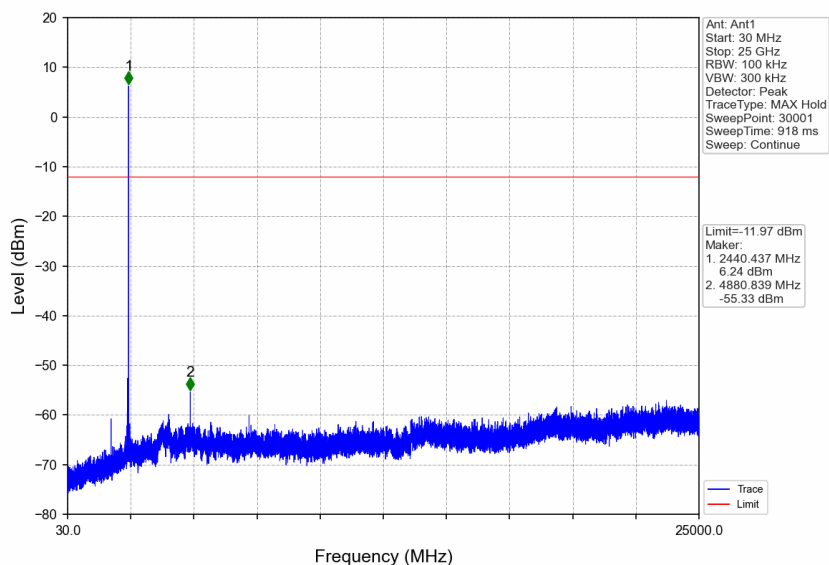
5.2.2 Test Graph



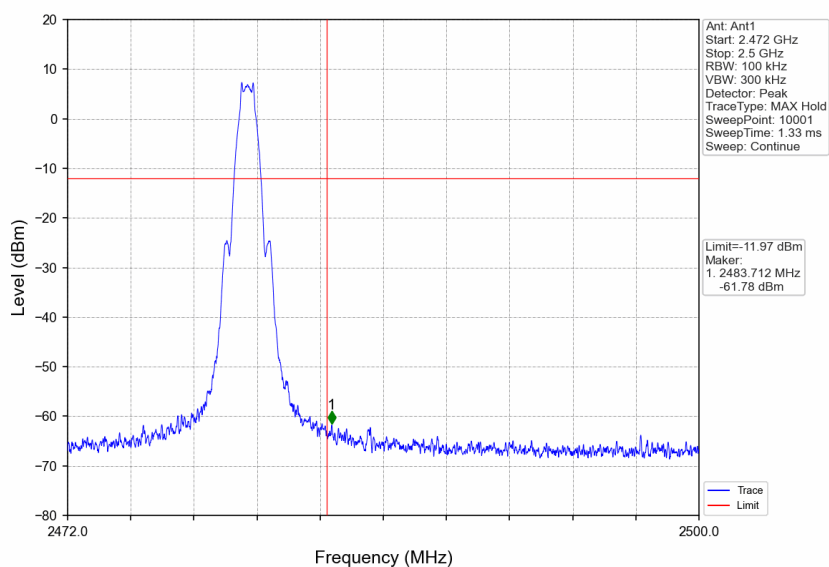
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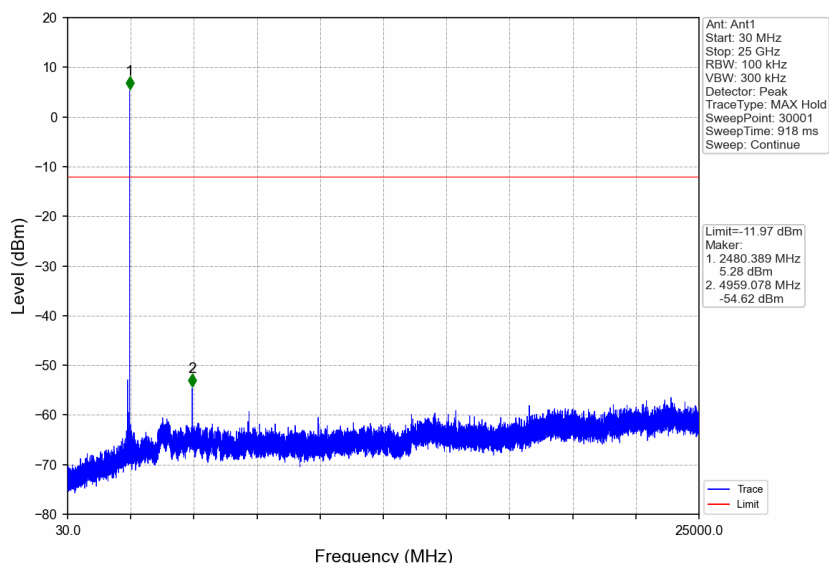
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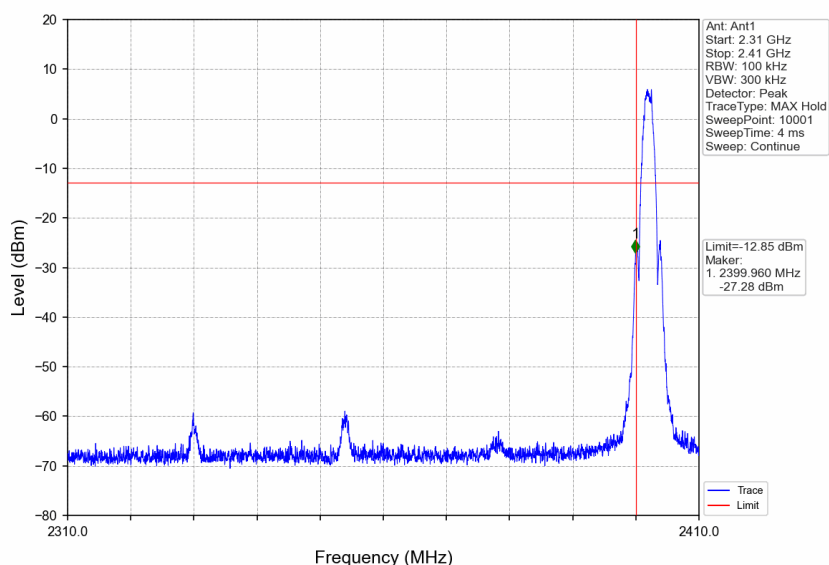
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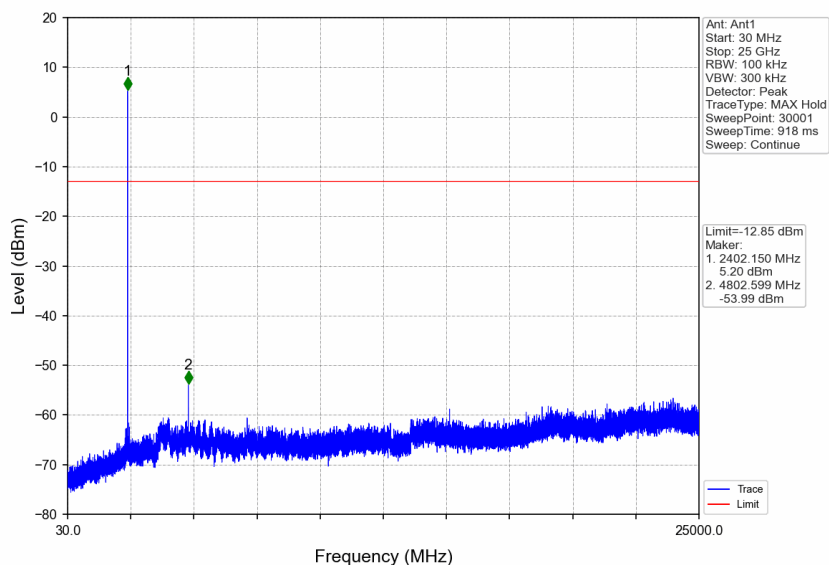
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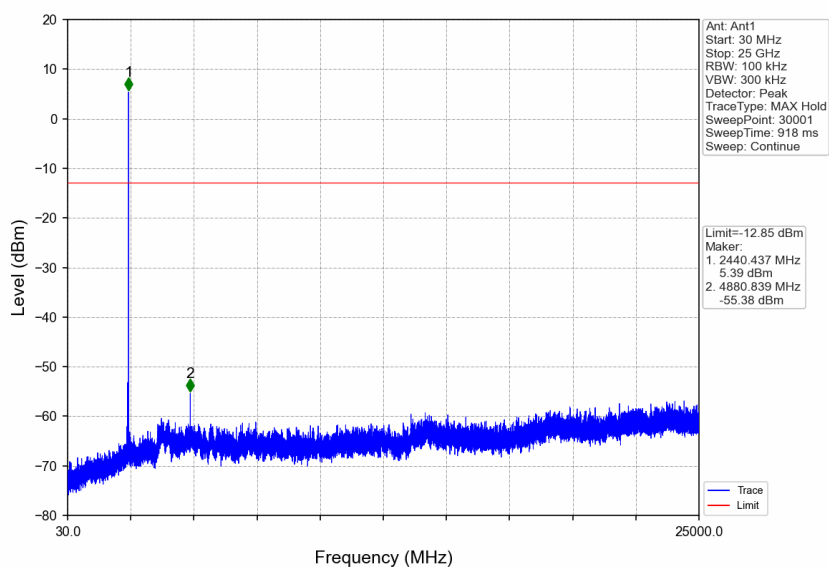
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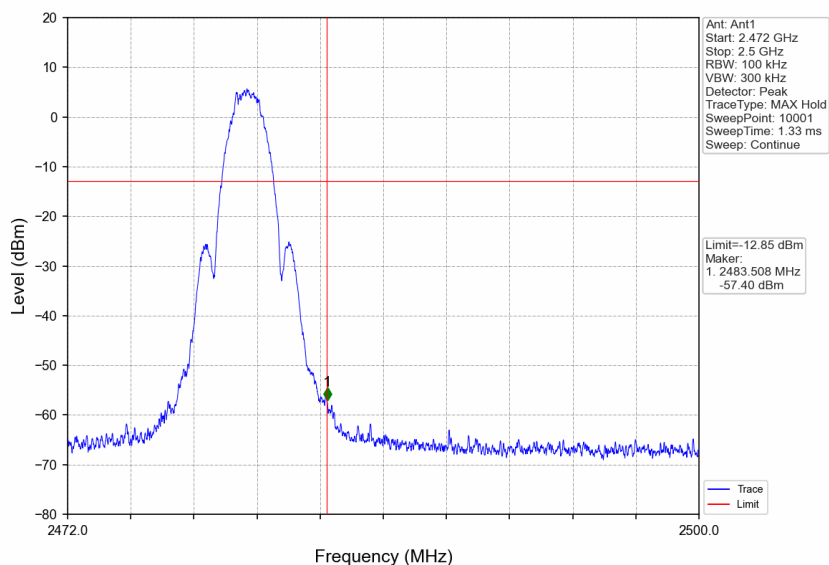
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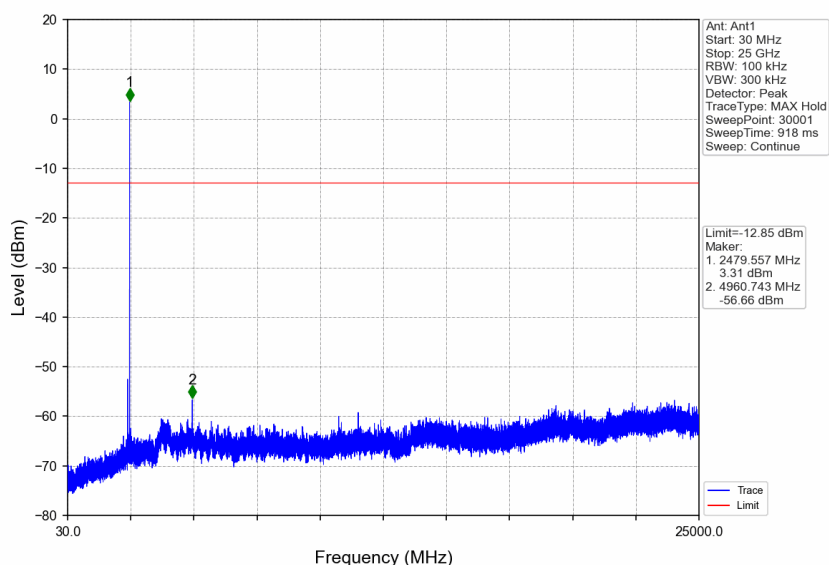
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