

Appendix B for KSEM211100190002

(RF Module Microchip)

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	0.380	0.625	60.80	2.16	0.00
		2440	0.379	0.625	60.64	2.17	0.00
		2480	0.380	0.625	60.80	2.16	0.00



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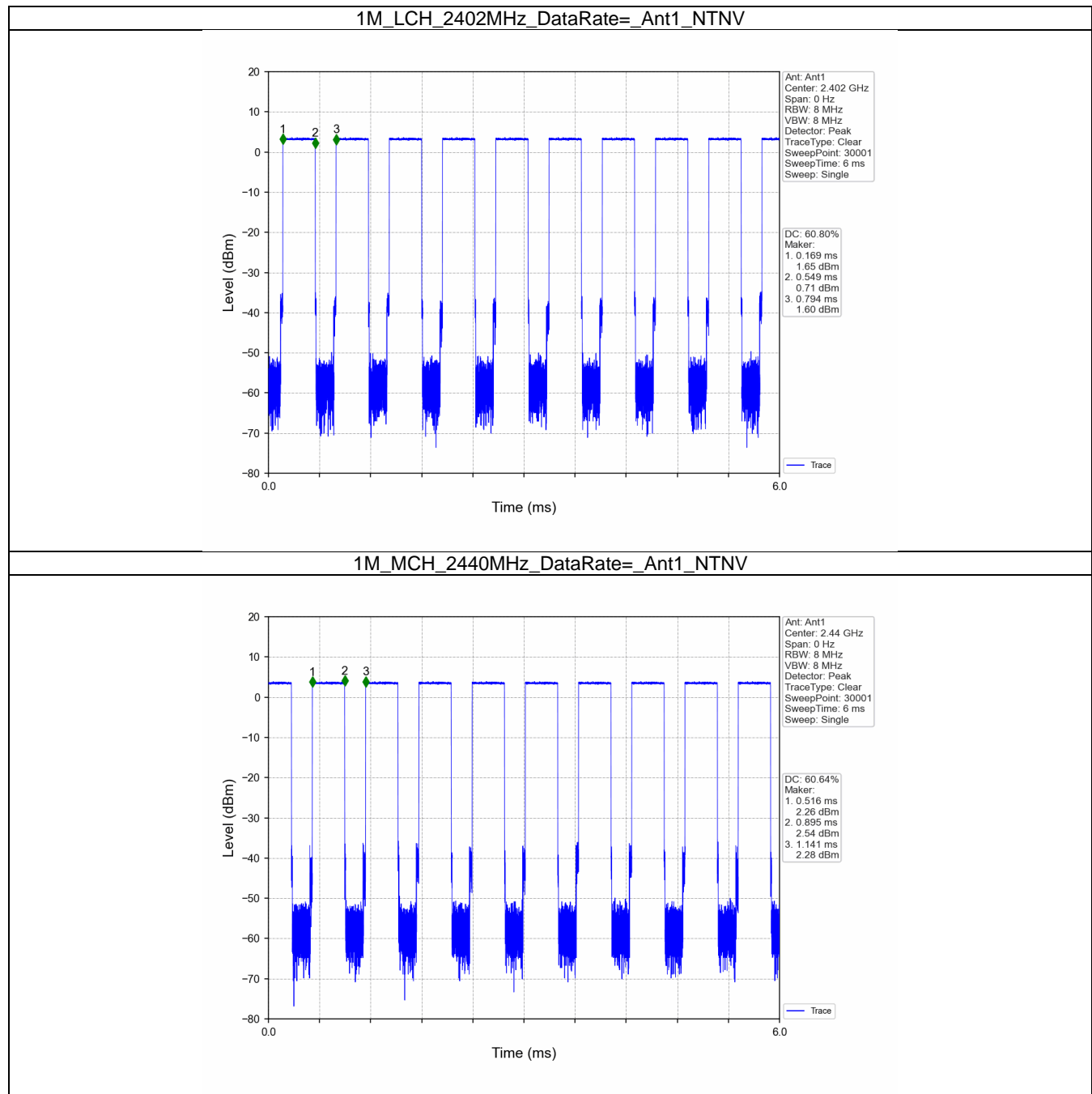
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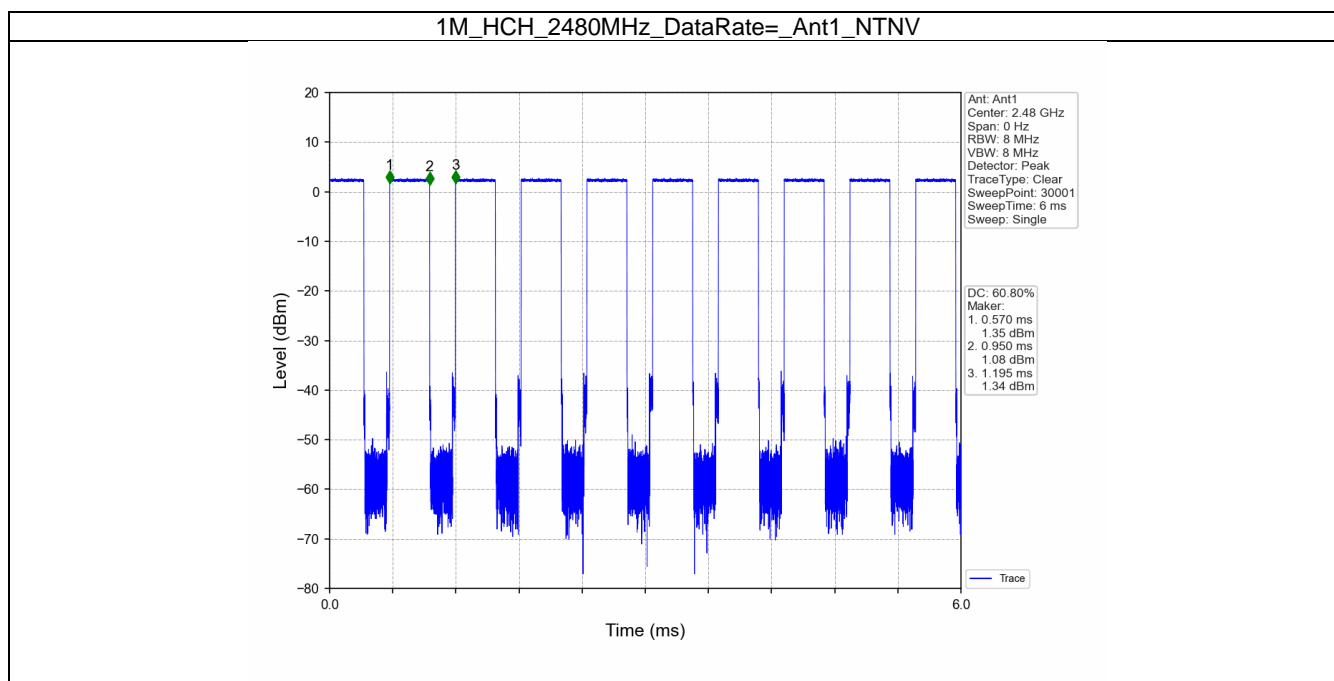
1.1.2 Test Graph



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.057	Pass
		2440	1	1.058	Pass
		2480	1	1.058	Pass



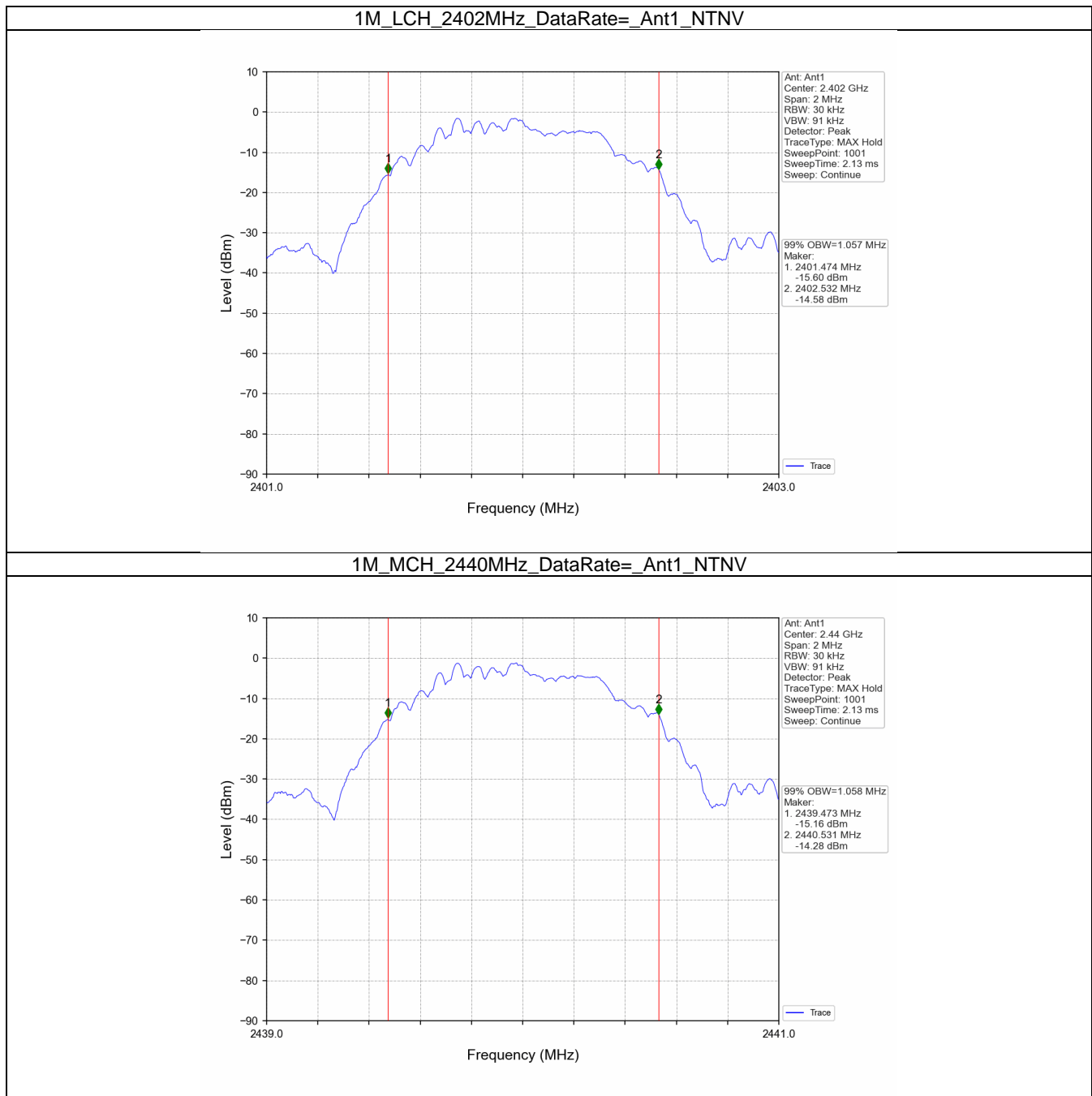
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2.1.2 Test Graph



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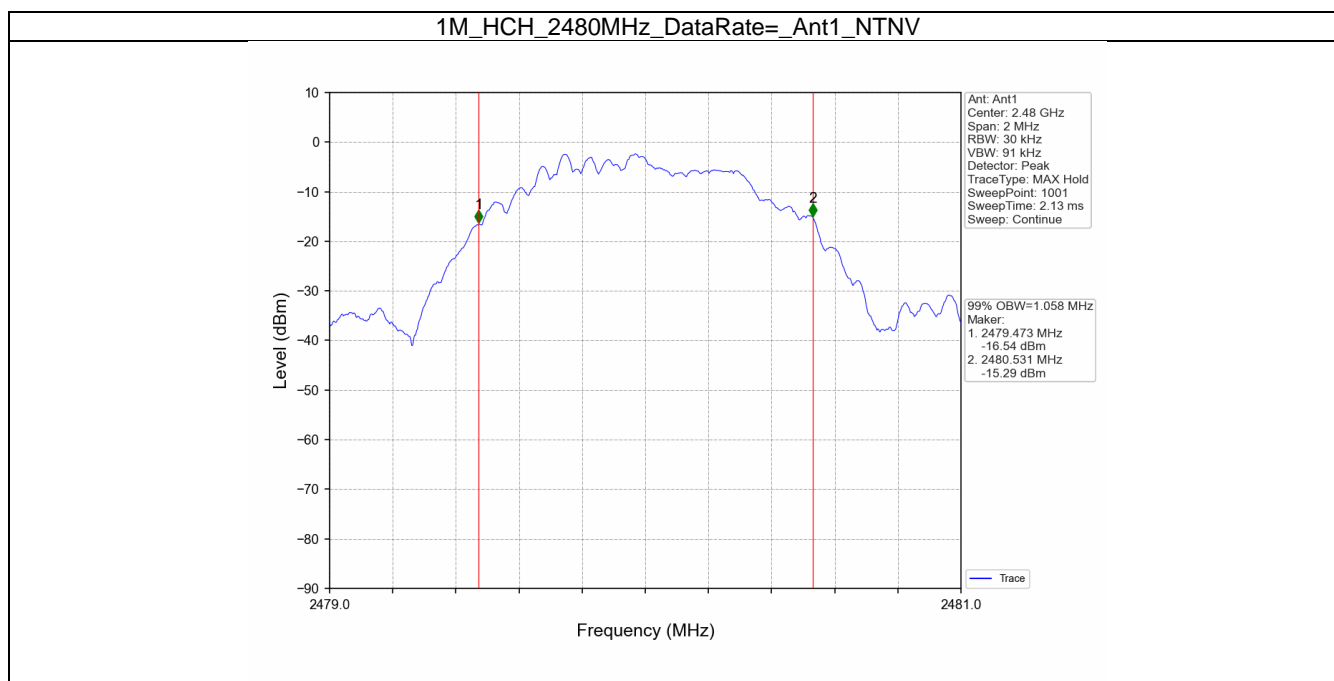
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.729	≥ 0.5	Pass
		2440	1	0.731	≥ 0.5	Pass
		2480	1	0.731	≥ 0.5	Pass



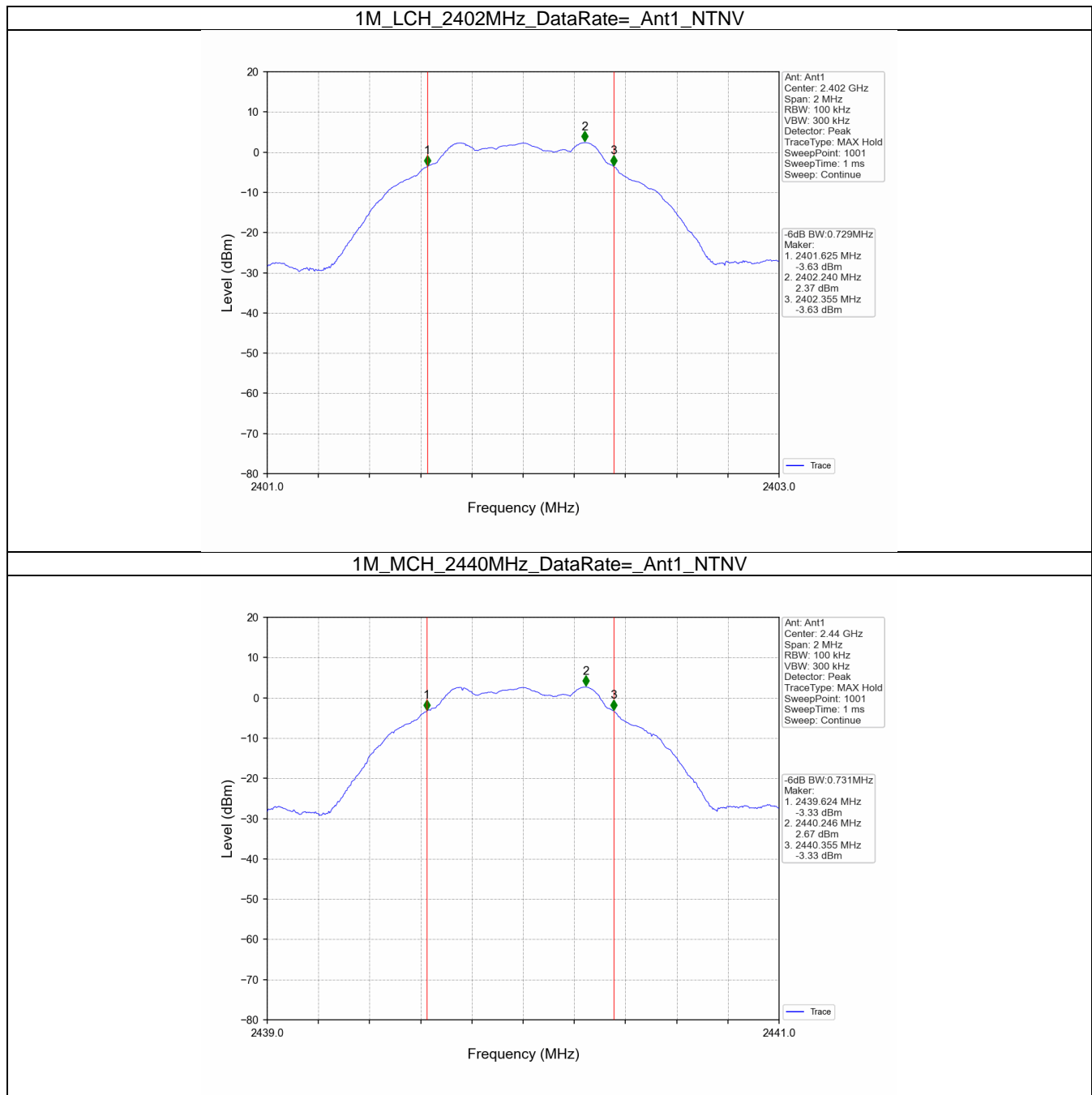
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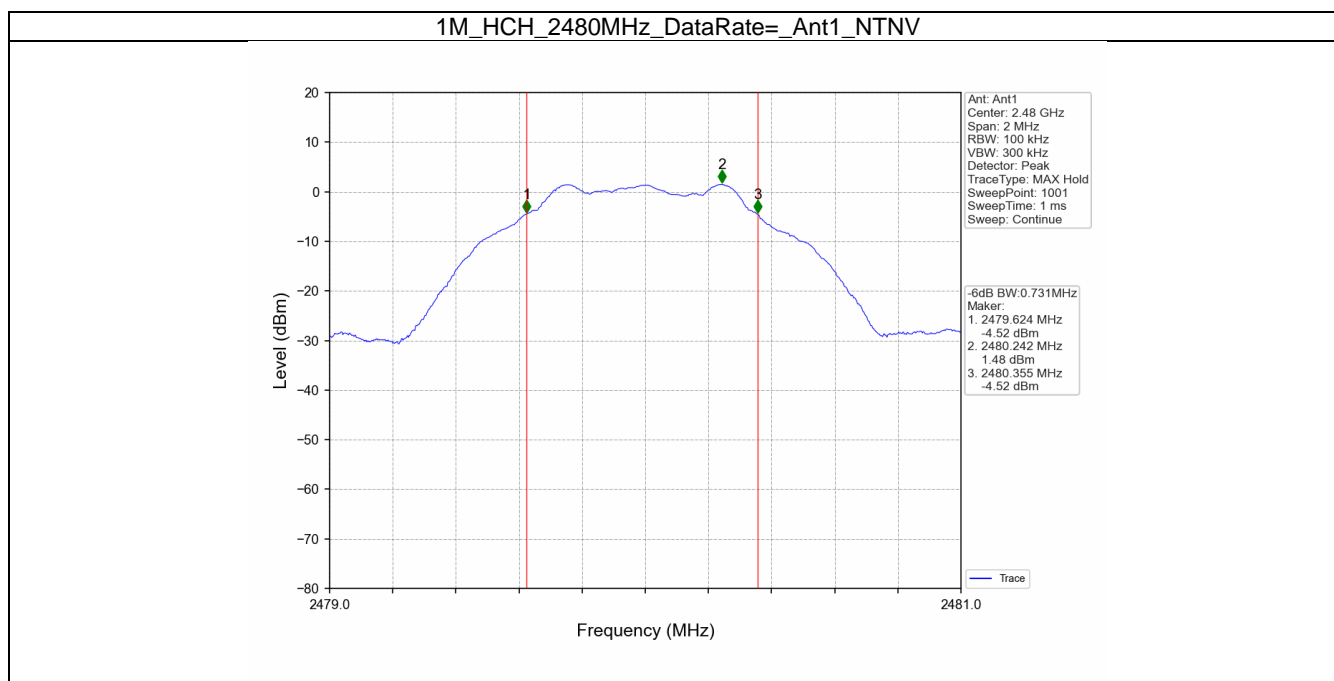
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3. Maximum Conducted Output Power

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	3.38	<=30	Pass
		2440	3.67	<=30	Pass
		2480	2.51	<=30	Pass

Note1: Antenna Gain: Ant1: 2.14dBi;



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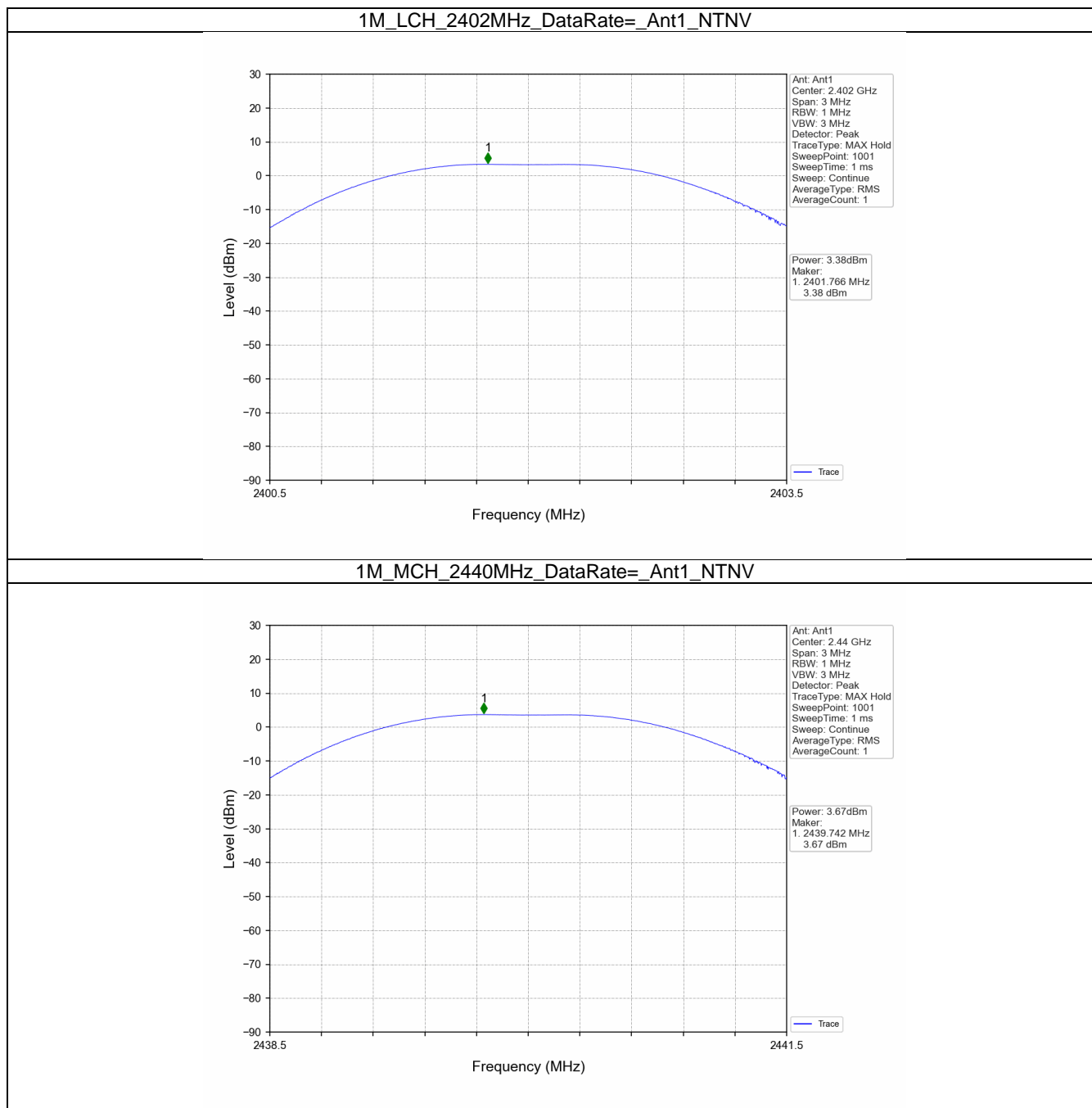
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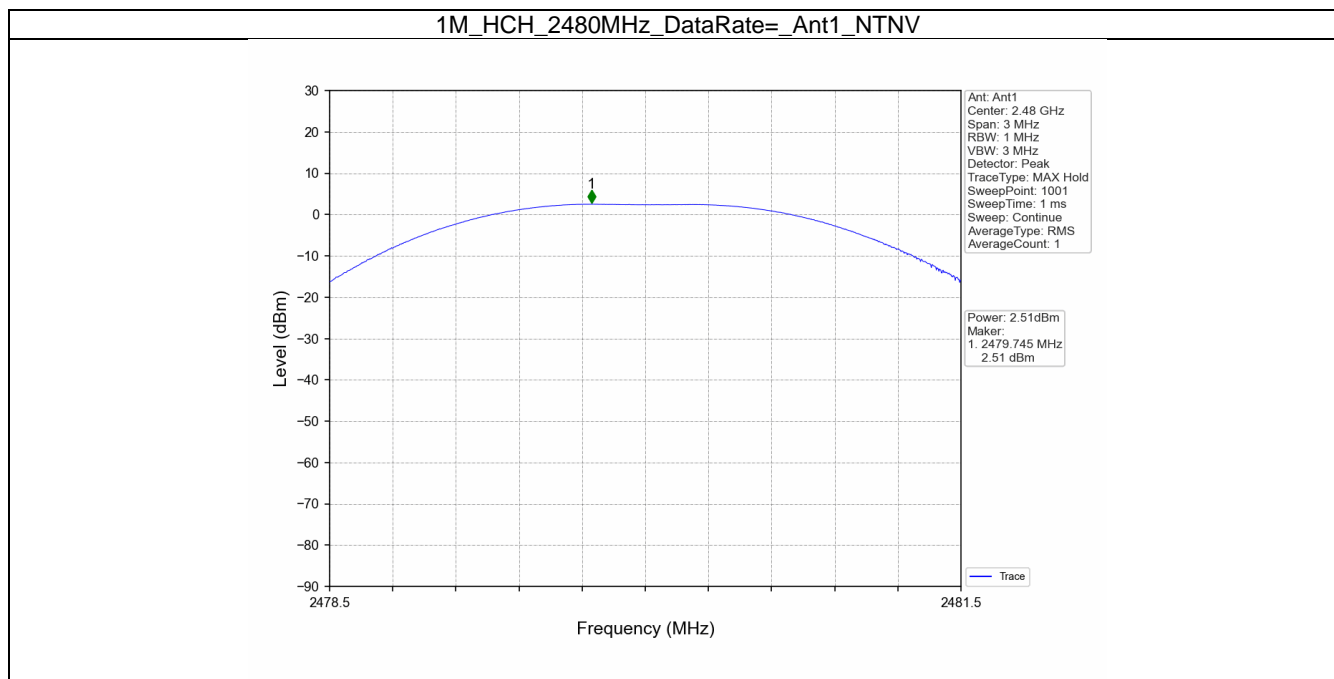


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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
1M	SISO	2402	-11.71	<=8	Pass
		2440	-11.44	<=8	Pass
		2480	-12.38	<=8	Pass

Note1: Antenna Gain: Ant1: 2.14dBi;



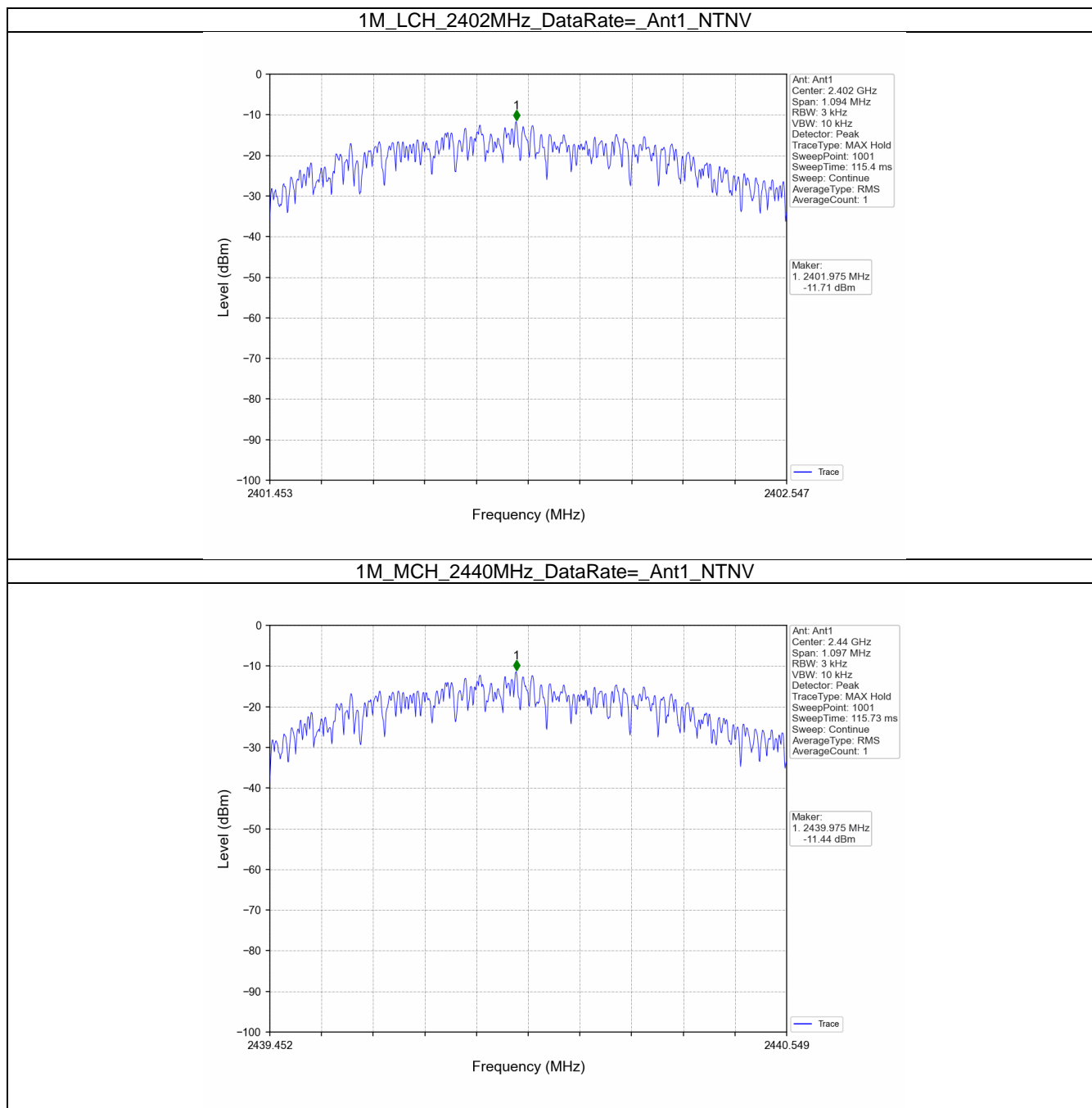
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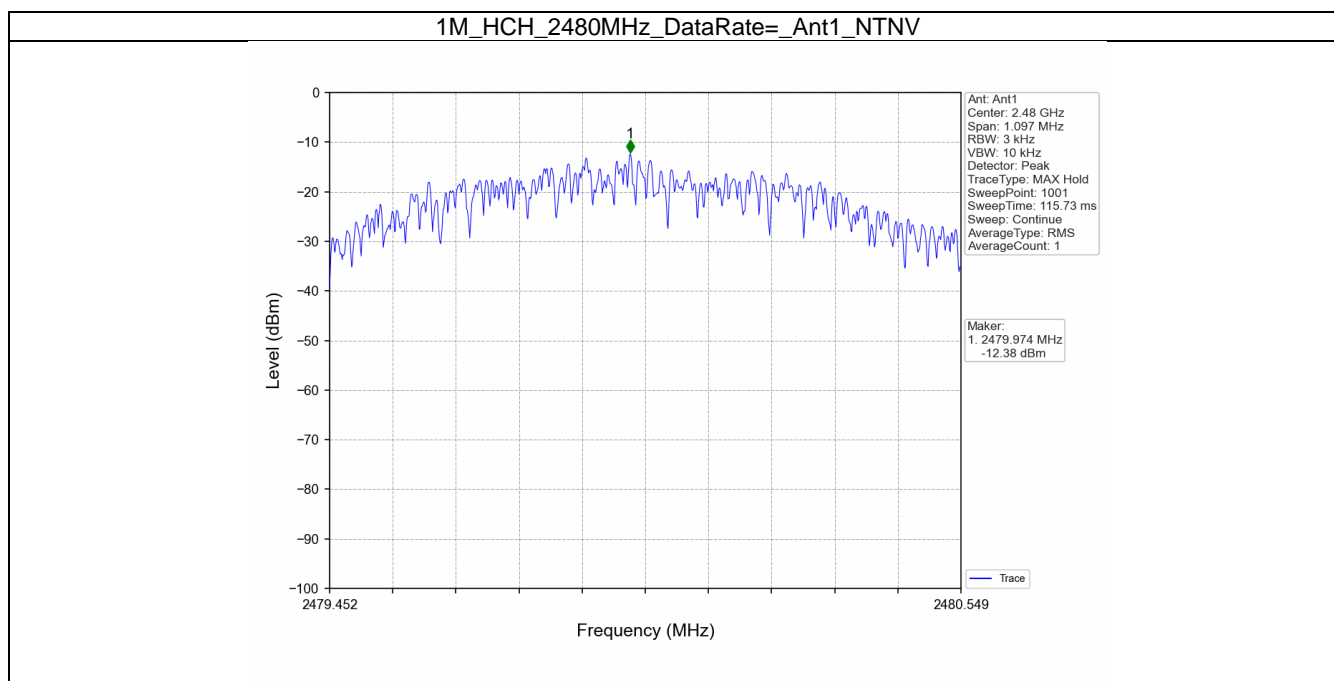


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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
1M	SISO	2402	1	2.38
		2440	1	2.64
		2480	1	1.48

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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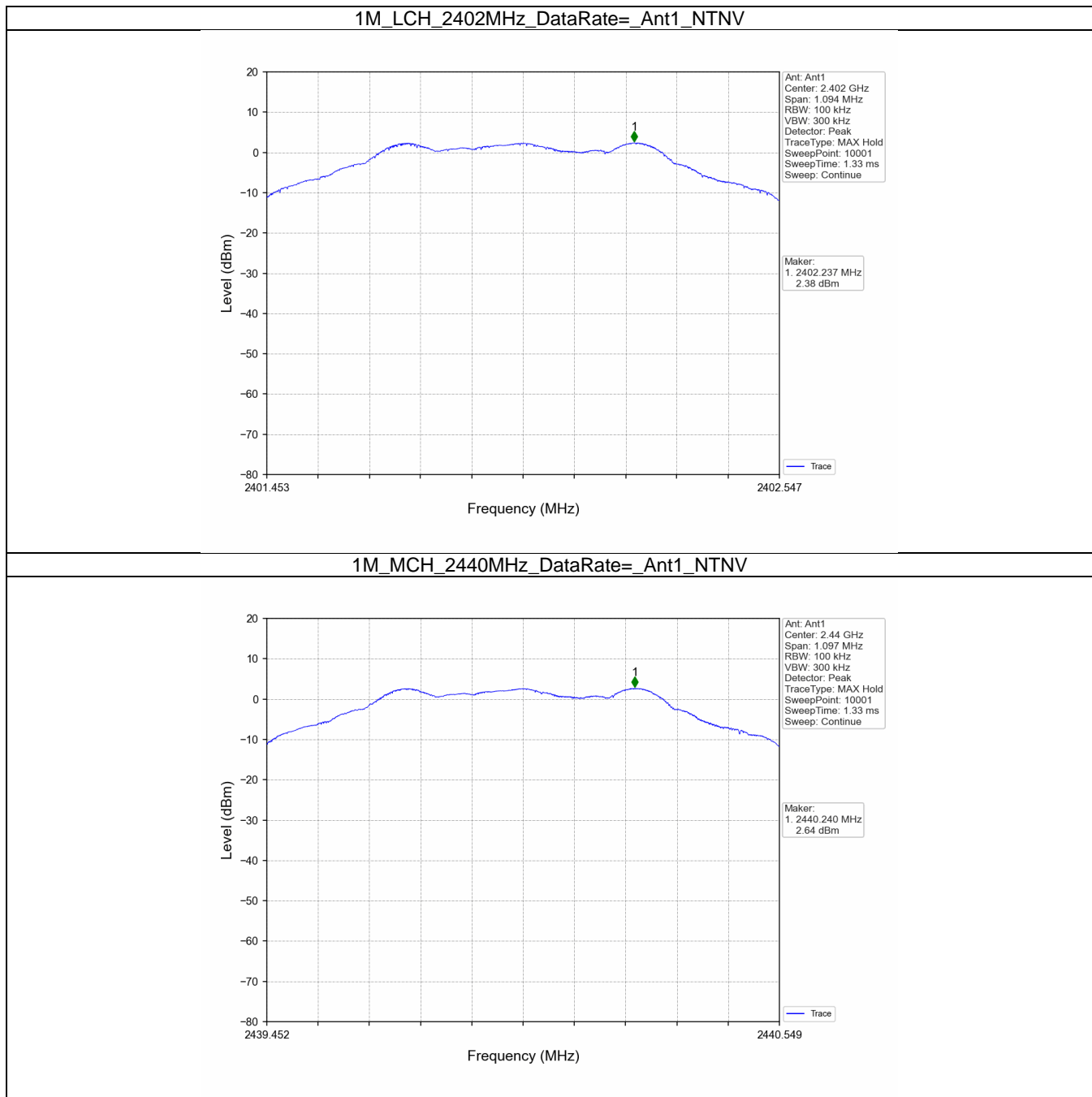
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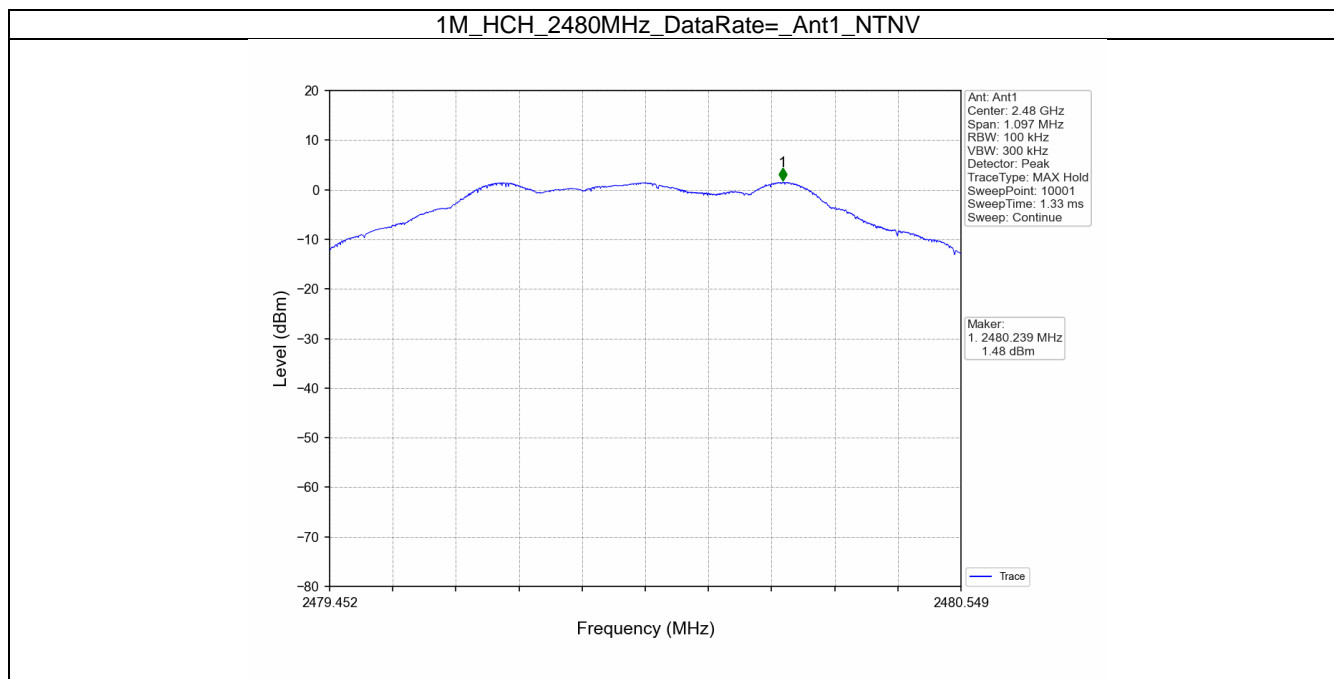
5.1.2 Test Graph



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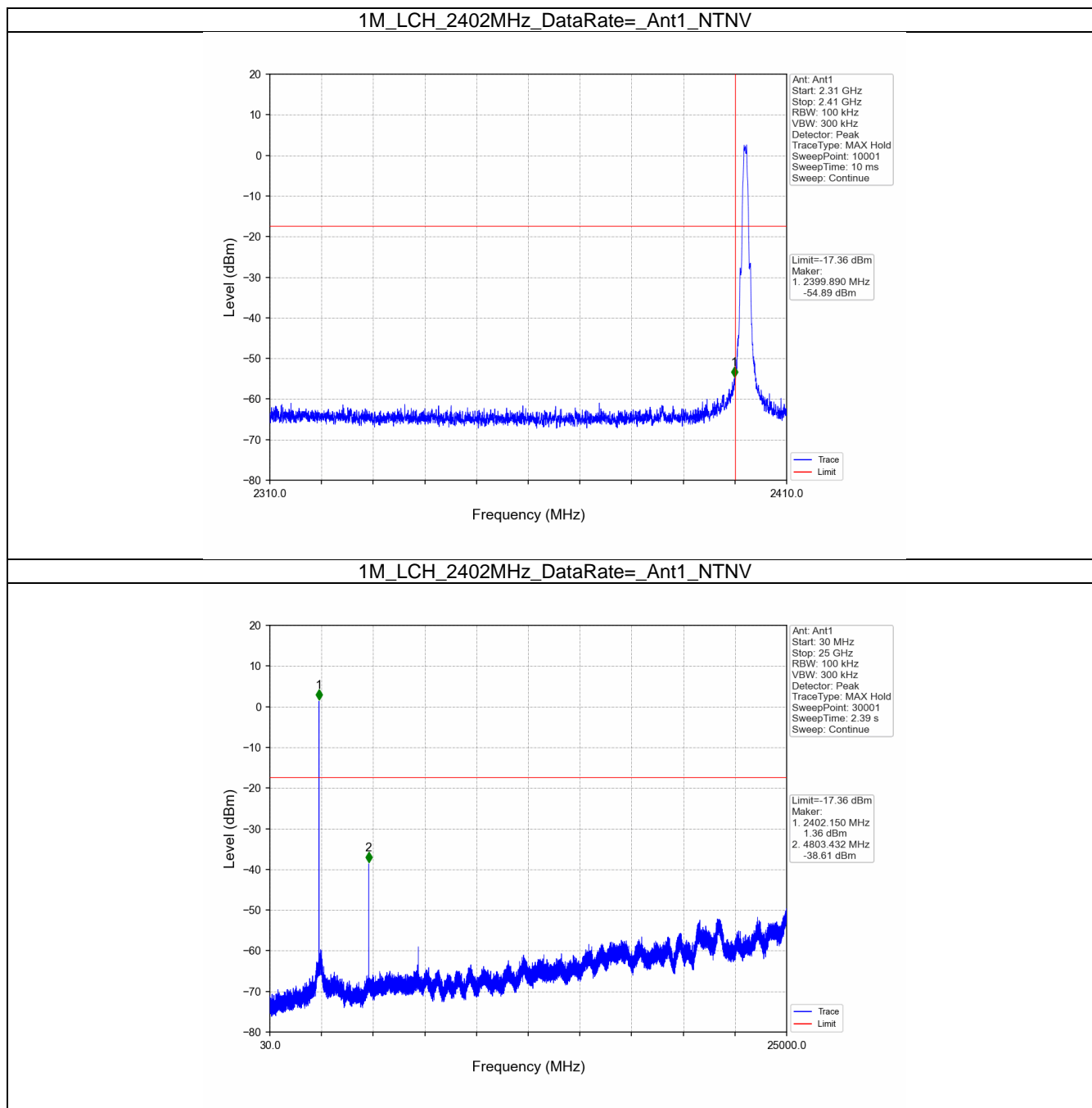
5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	2.64	-17.36	Pass
		2440	1	2.64	-17.36	Pass
		2480	1	2.64	-17.36	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.



5.2.2 Test Graph

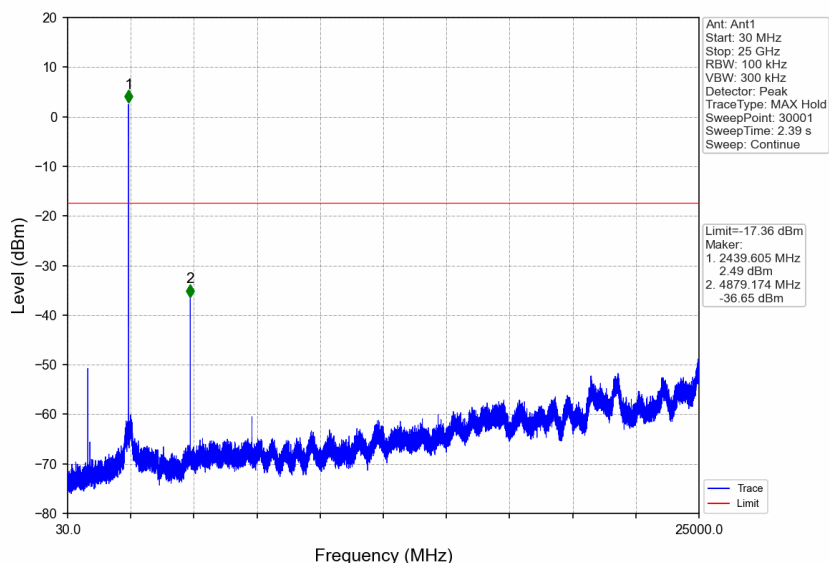


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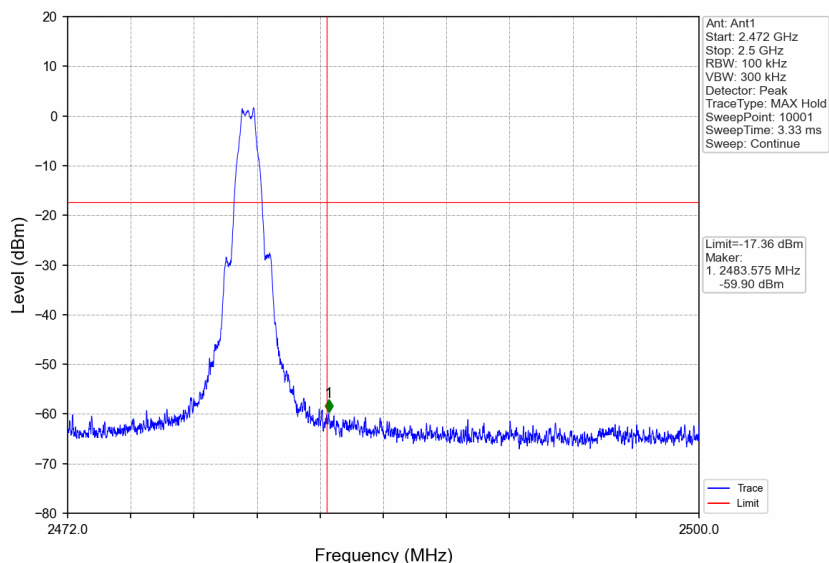
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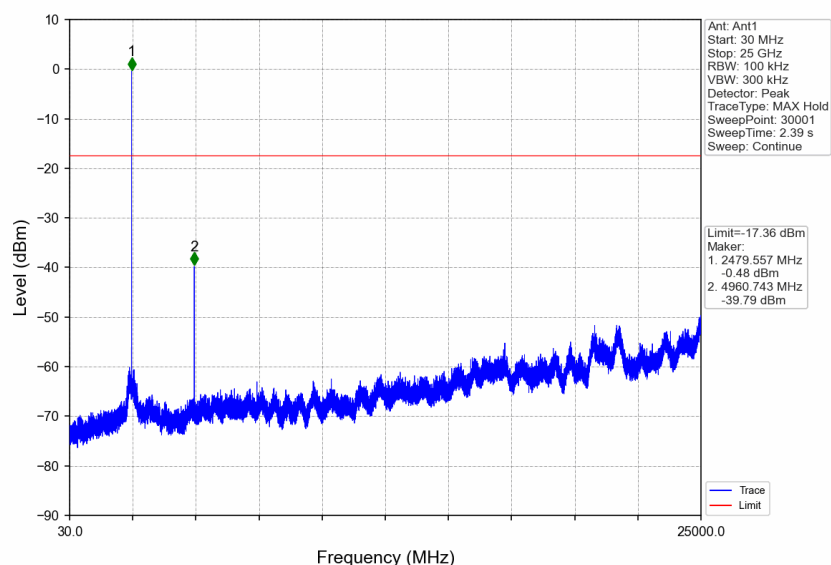


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(RF Module Realtek)

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	2.138	2.501	85.49	0.68	0.03
		2440	2.138	2.501	85.49	0.68	0.03
		2480	2.137	2.500	85.48	0.68	0.03
2M	SISO	2402	1.079	1.875	57.55	2.40	0.03
		2440	1.080	1.875	57.60	2.40	0.03
		2480	1.080	1.876	57.57	2.40	0.03



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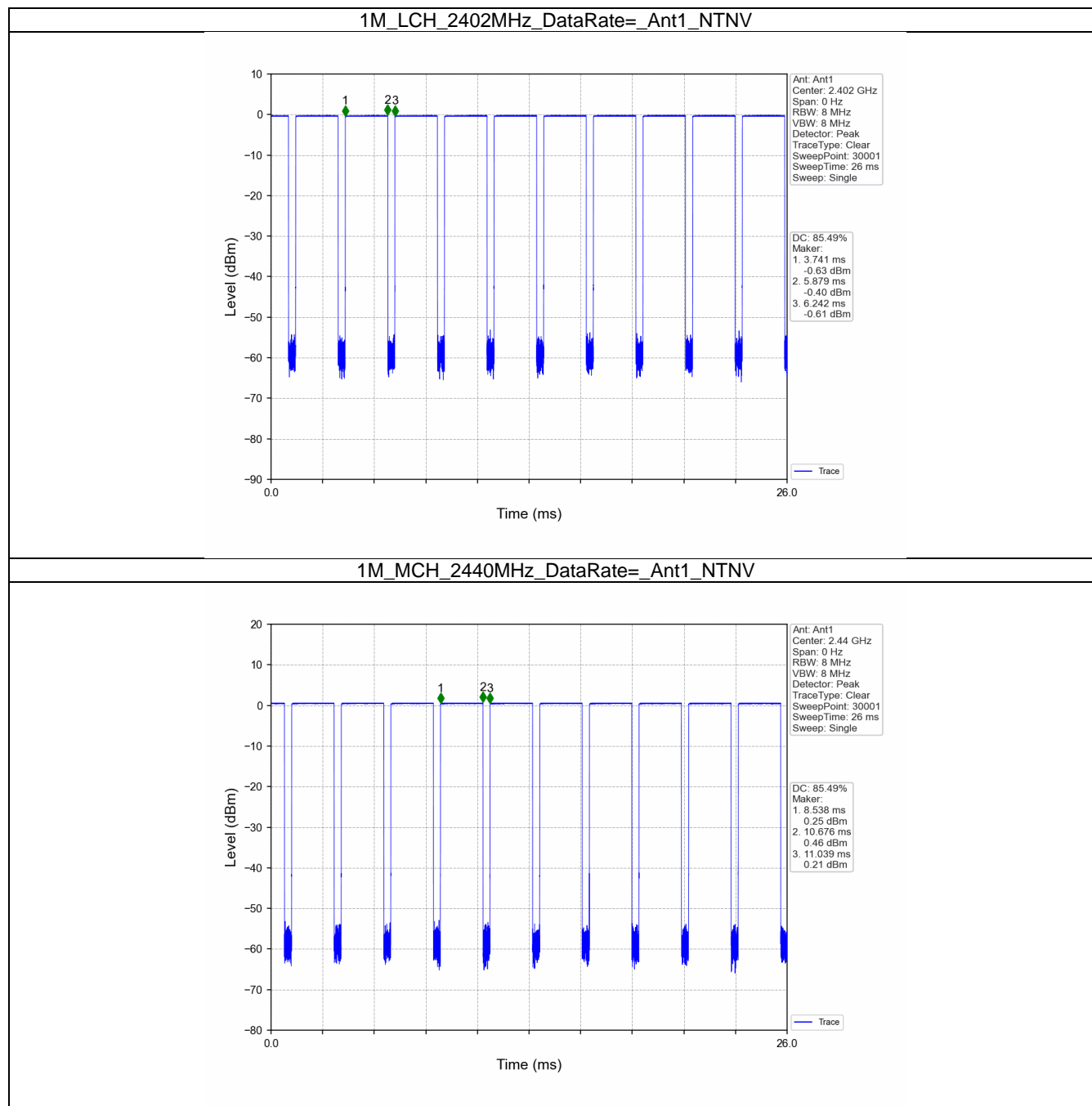
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1.1.2 Test Graph

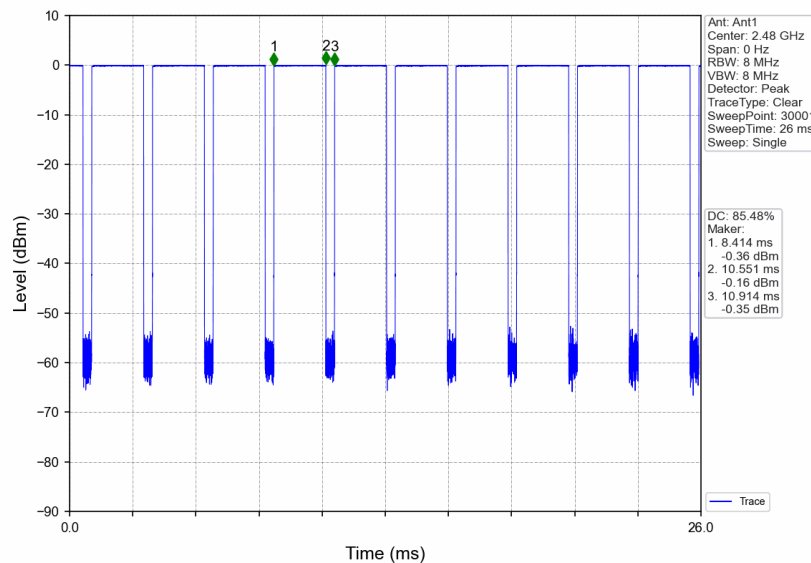


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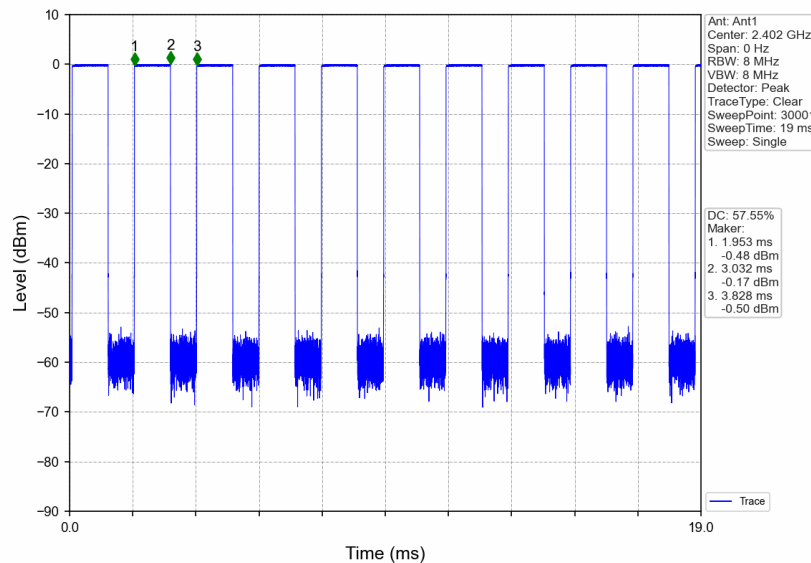
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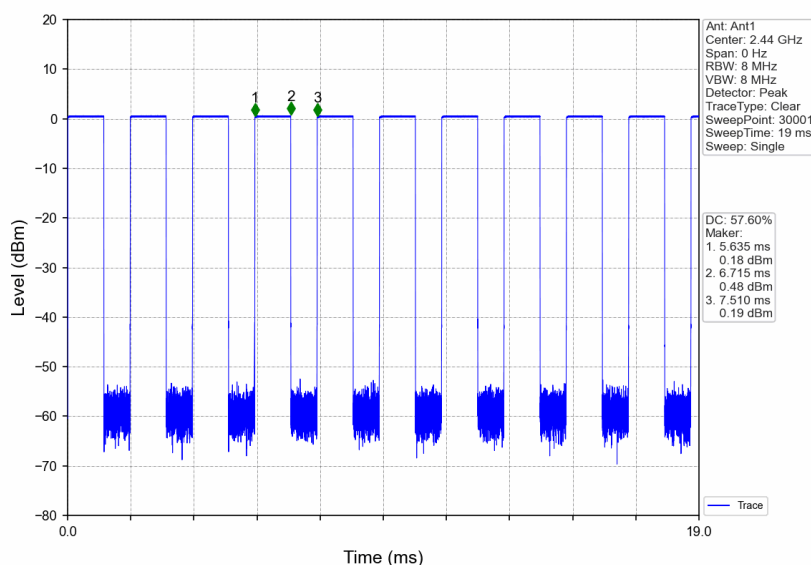
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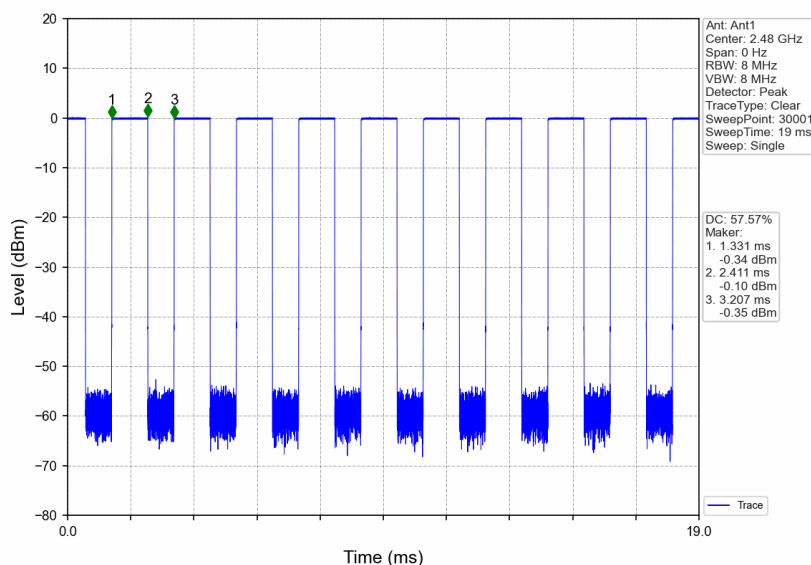
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.029	Pass
		2440	1	1.036	Pass
		2480	1	1.036	Pass
2M	SISO	2402	1	2.080	Pass
		2440	1	2.077	Pass
		2480	1	2.084	Pass



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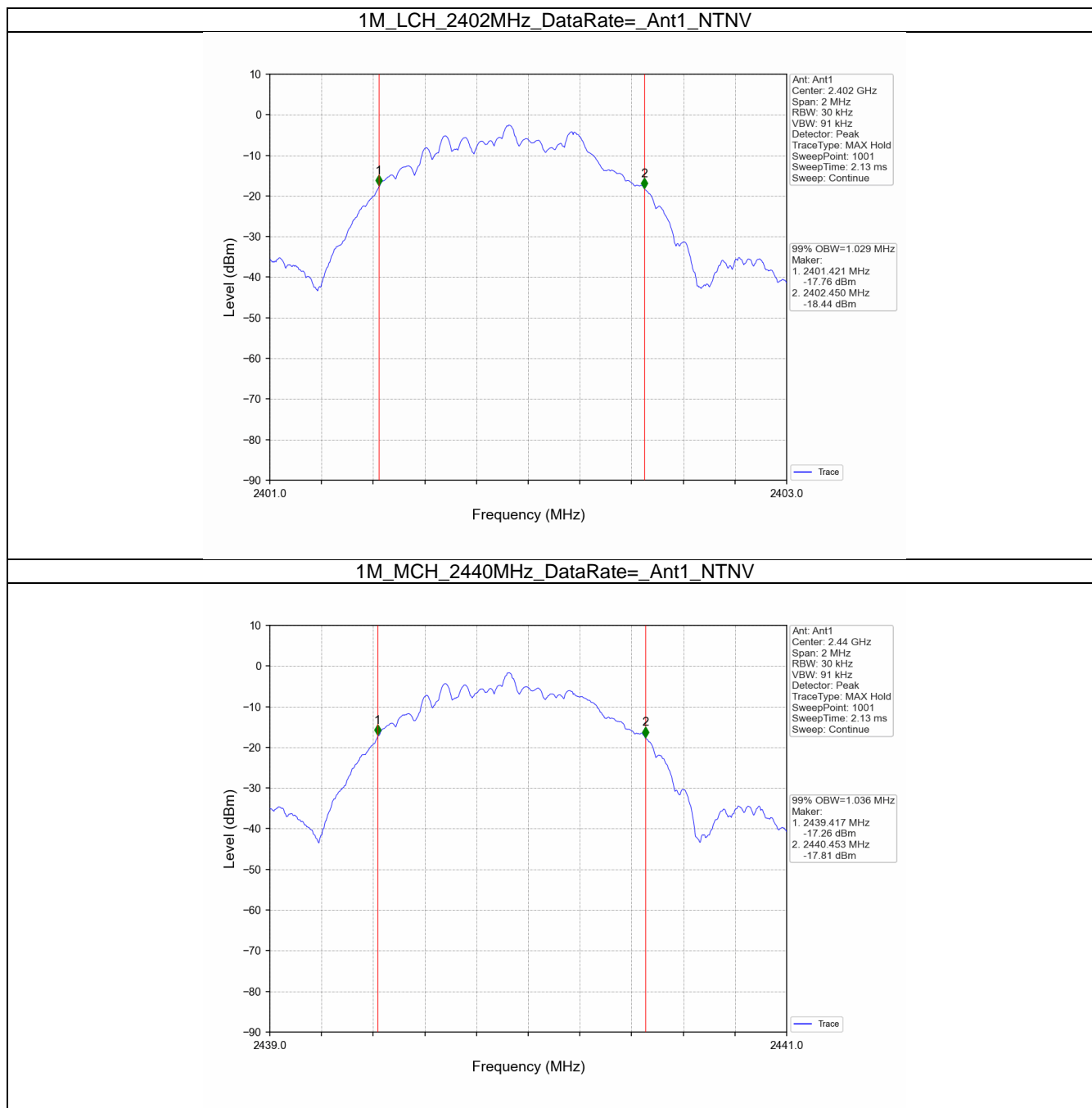
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2.1.2 Test Graph



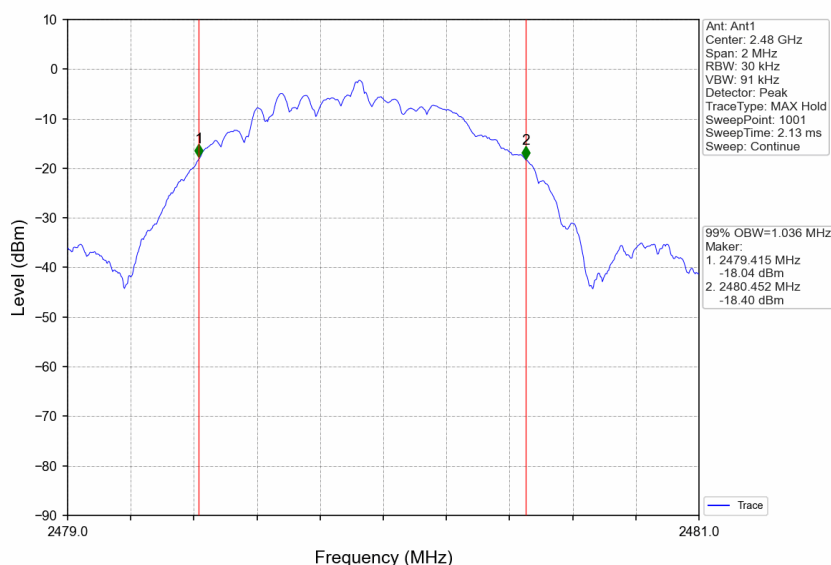
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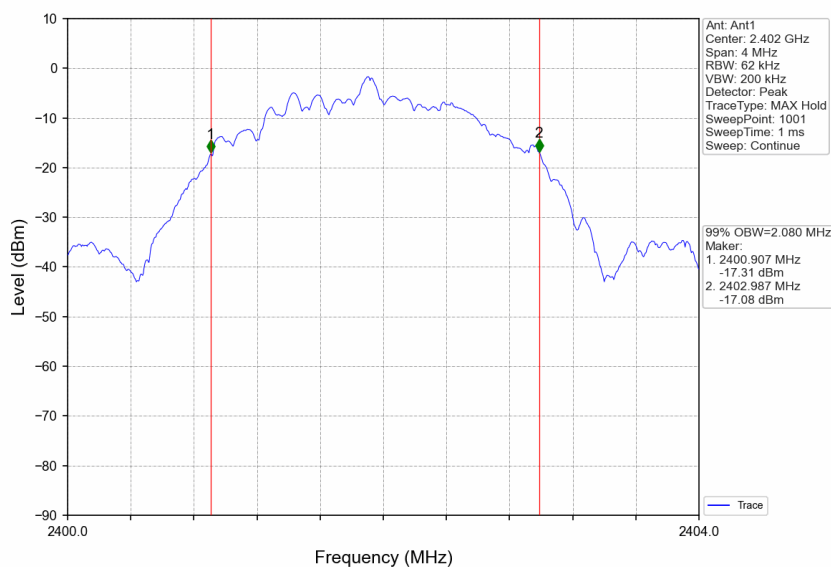
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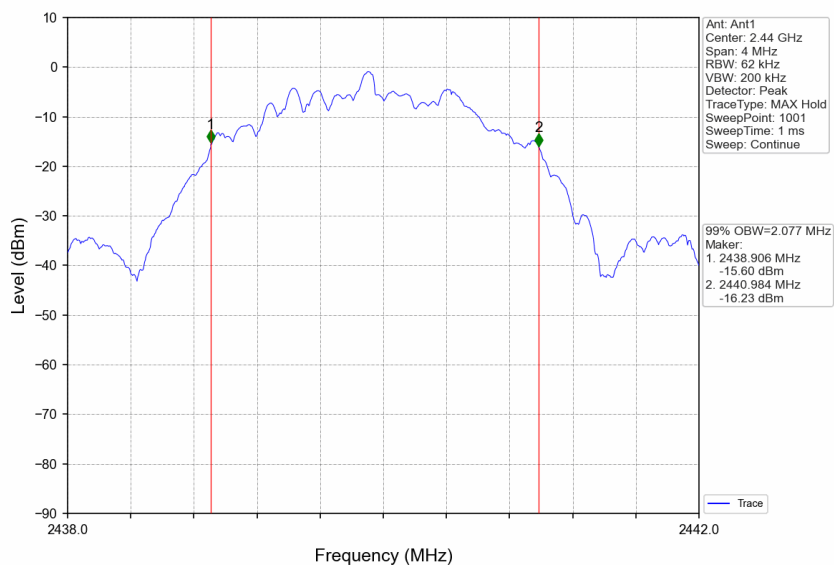
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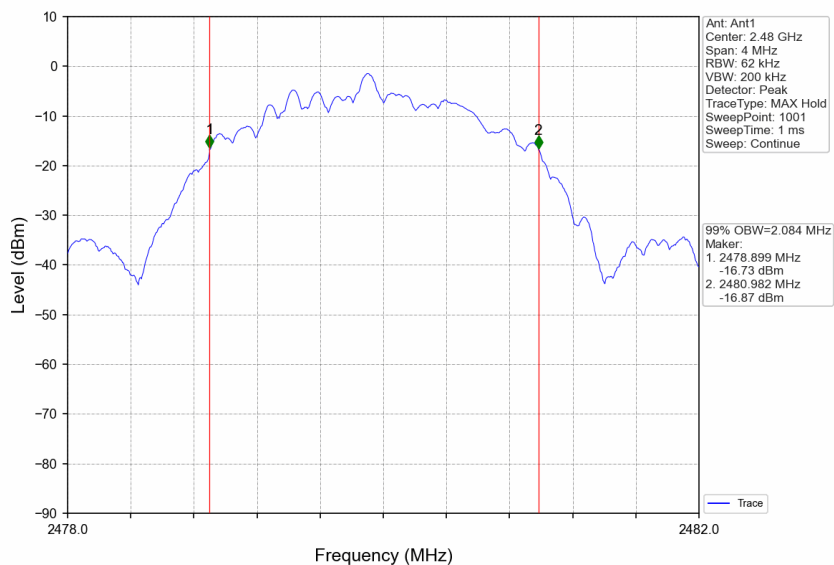
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.667	≥ 0.5	Pass
		2440	1	0.667	≥ 0.5	Pass
		2480	1	0.666	≥ 0.5	Pass
2M	SISO	2402	1	1.138	≥ 0.5	Pass
		2440	1	1.158	≥ 0.5	Pass
		2480	1	1.156	≥ 0.5	Pass



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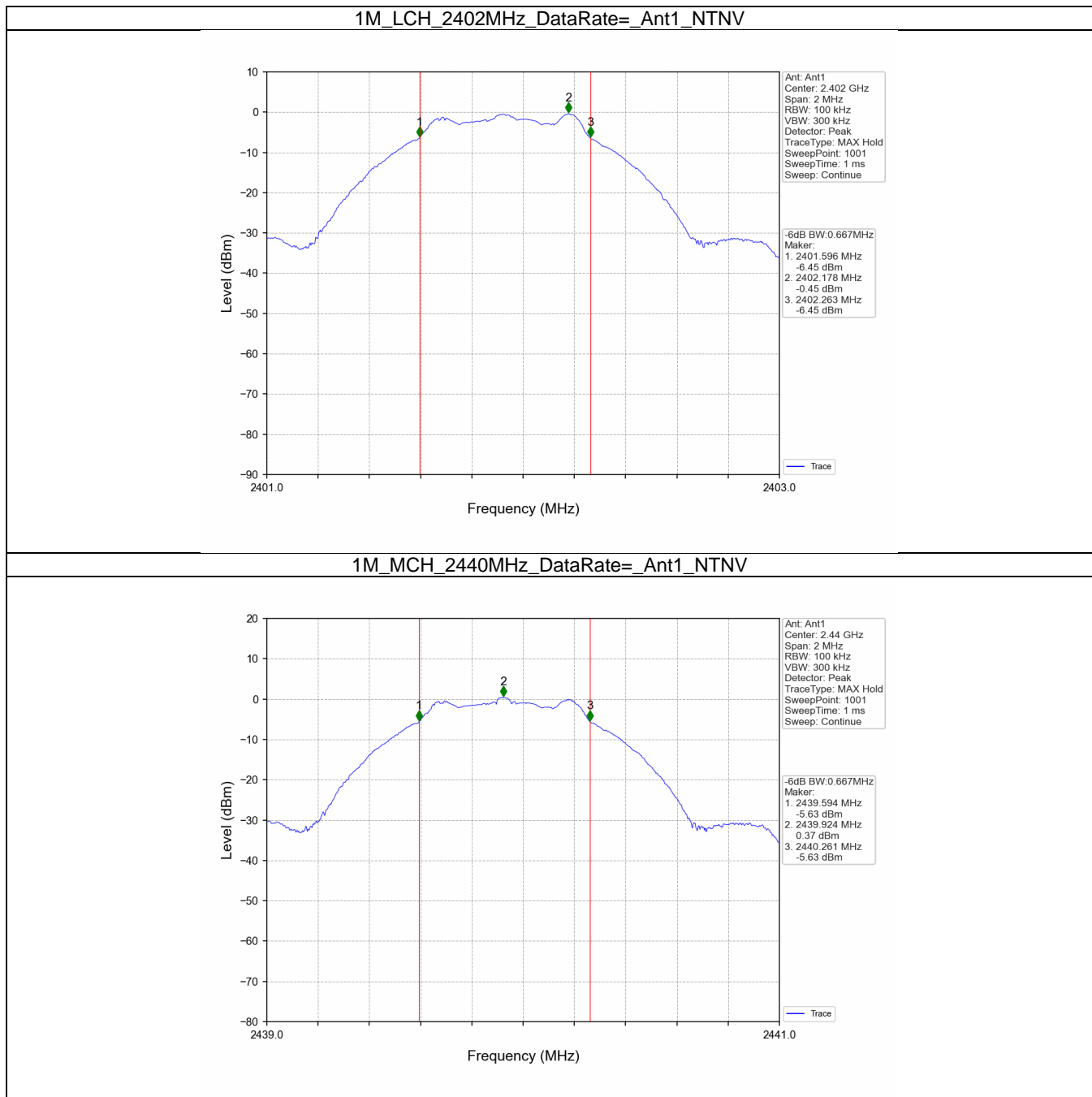
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2.2.2 Test Graph



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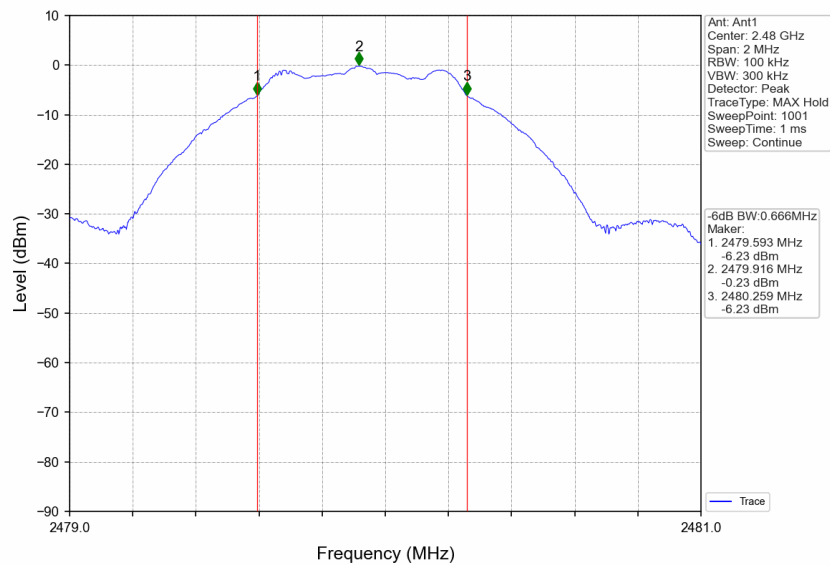
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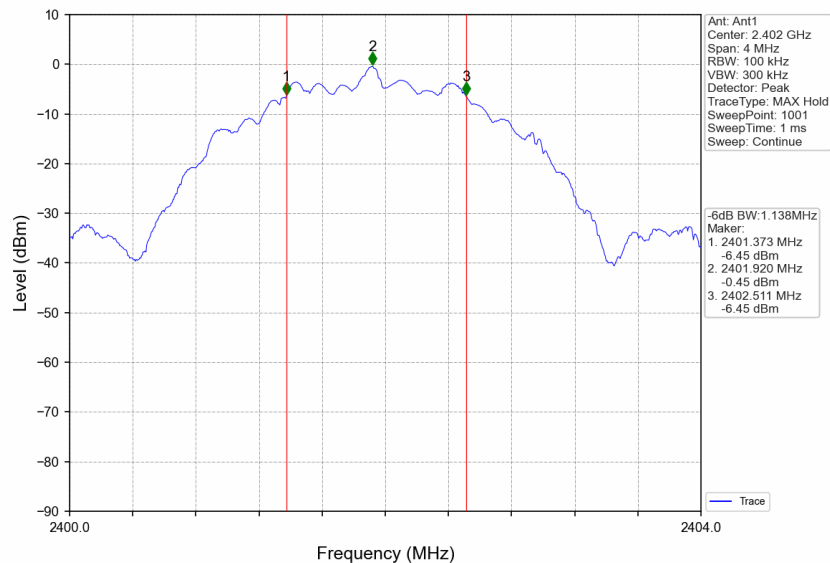
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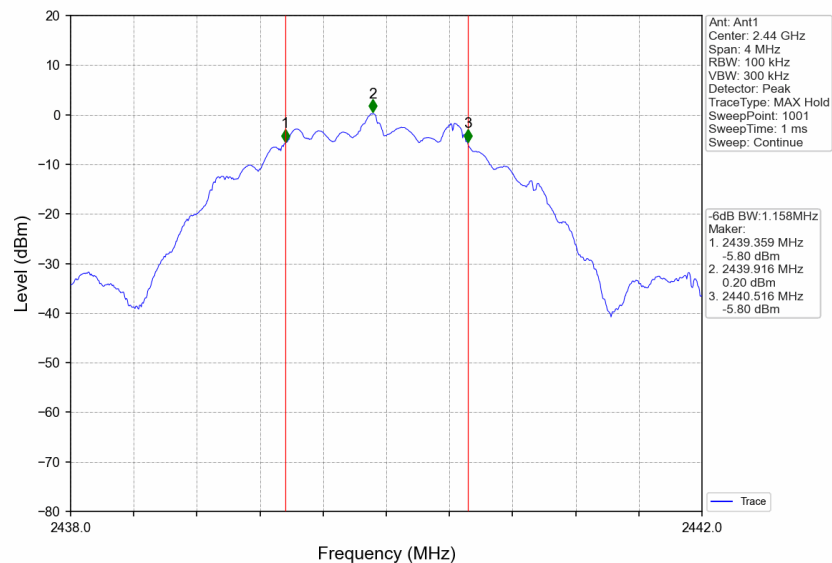
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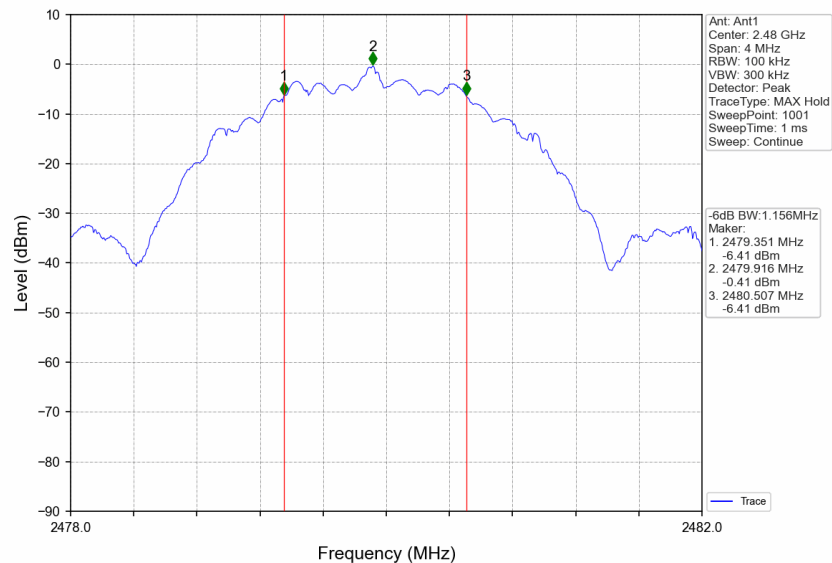
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3. Maximum Conducted Output Power

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	-0.34	<=30	Pass
		2440	0.53	<=30	Pass
		2480	-0.07	<=30	Pass
2M	SISO	2402	-0.13	<=30	Pass
		2440	0.53	<=30	Pass
		2480	-0.03	<=30	Pass

Note1: Antenna Gain: Ant1: 1.65dBi;



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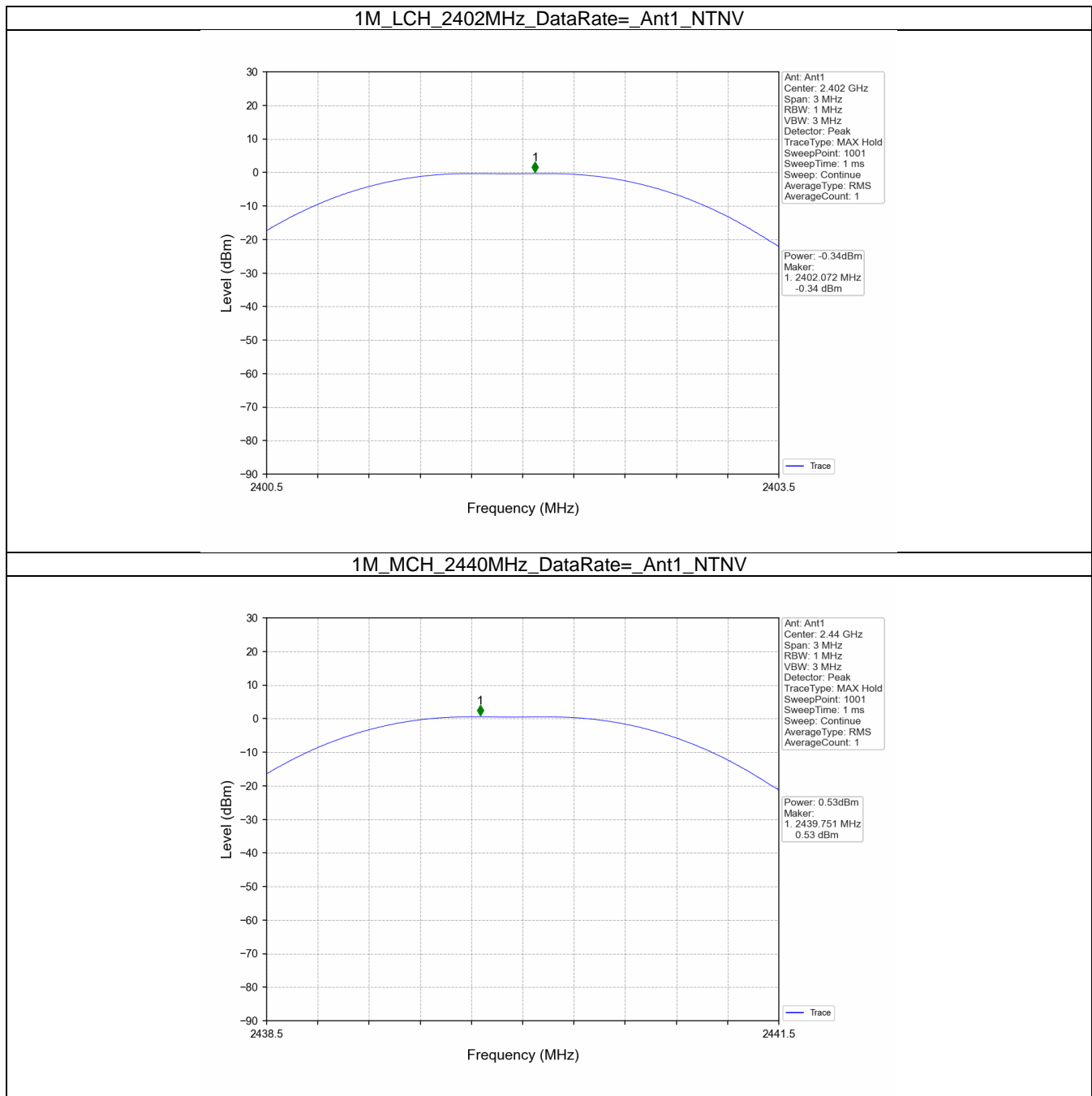
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3.1.2 Test Graph

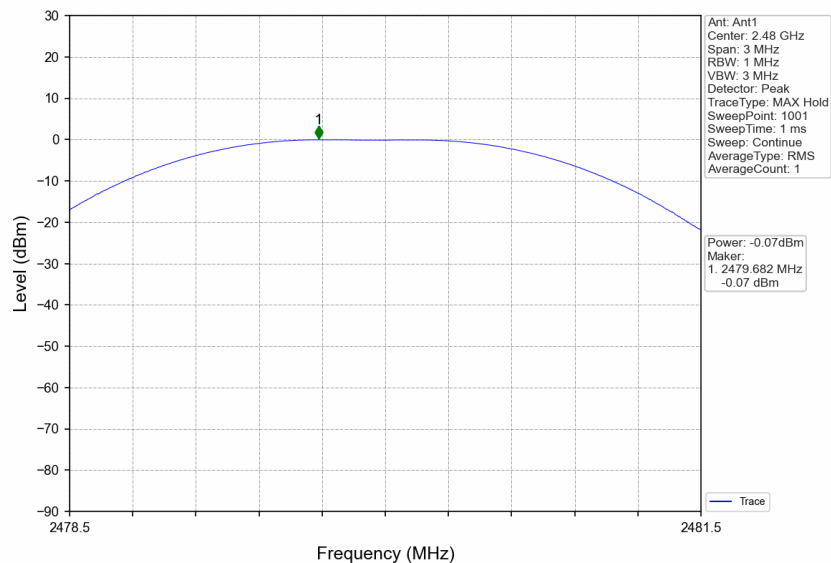


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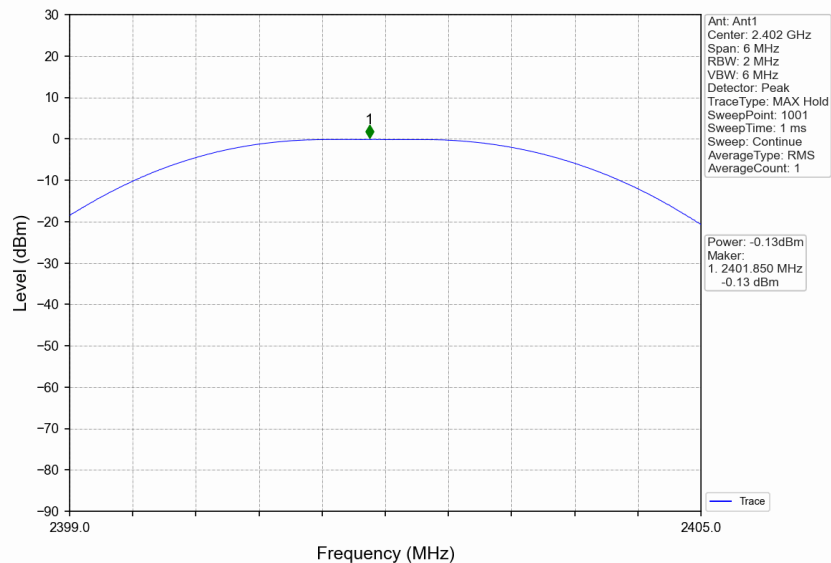
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1M_HCH_2480MHz_DataRate=_Ant1_NTNV



2M_LCH_2402MHz_DataRate=_Ant1_NTNV



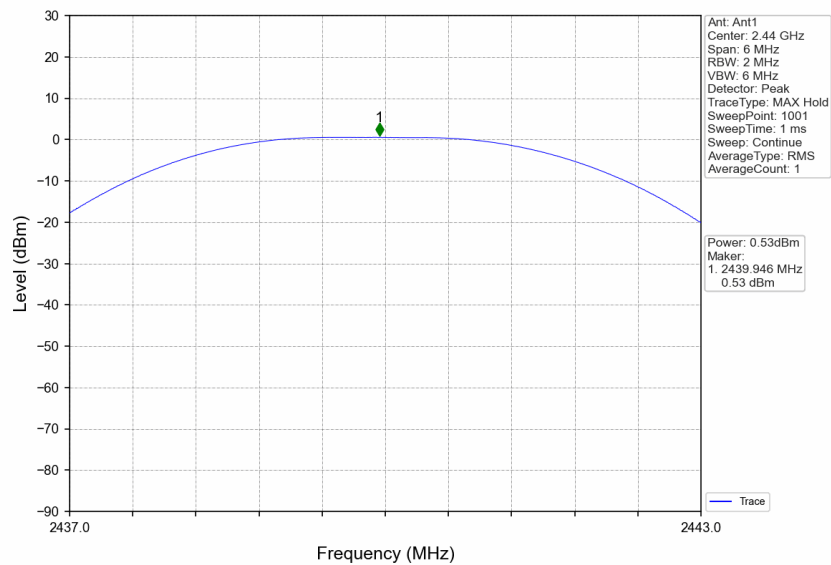
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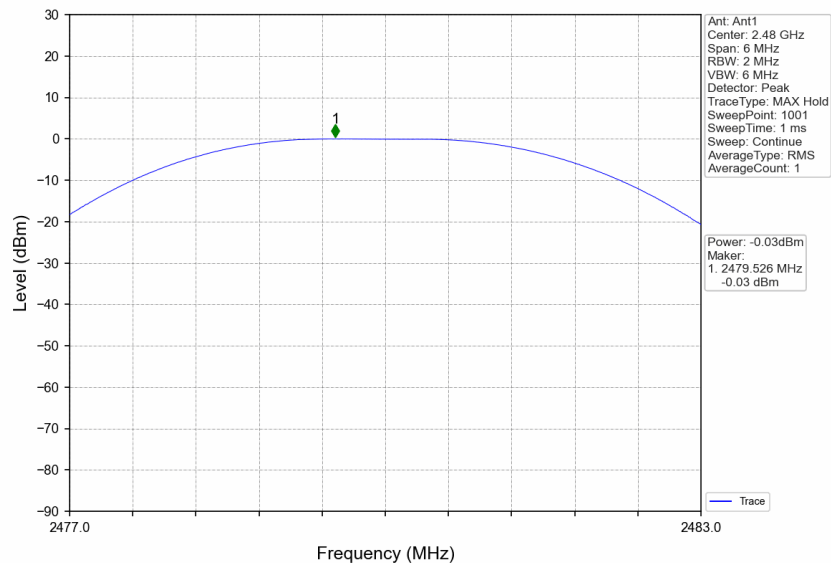
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2M_HCH_2480MHz_DataRate=_Ant1_NTNV



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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	-16.25	<=8	Pass
		2440	-15.25	<=8	Pass
		2480	-14.96	<=8	Pass
2M	SISO	2402	-18.24	<=8	Pass
		2440	-17.20	<=8	Pass
		2480	-17.19	<=8	Pass

Note1: Antenna Gain: Ant1: 1.65dBi;



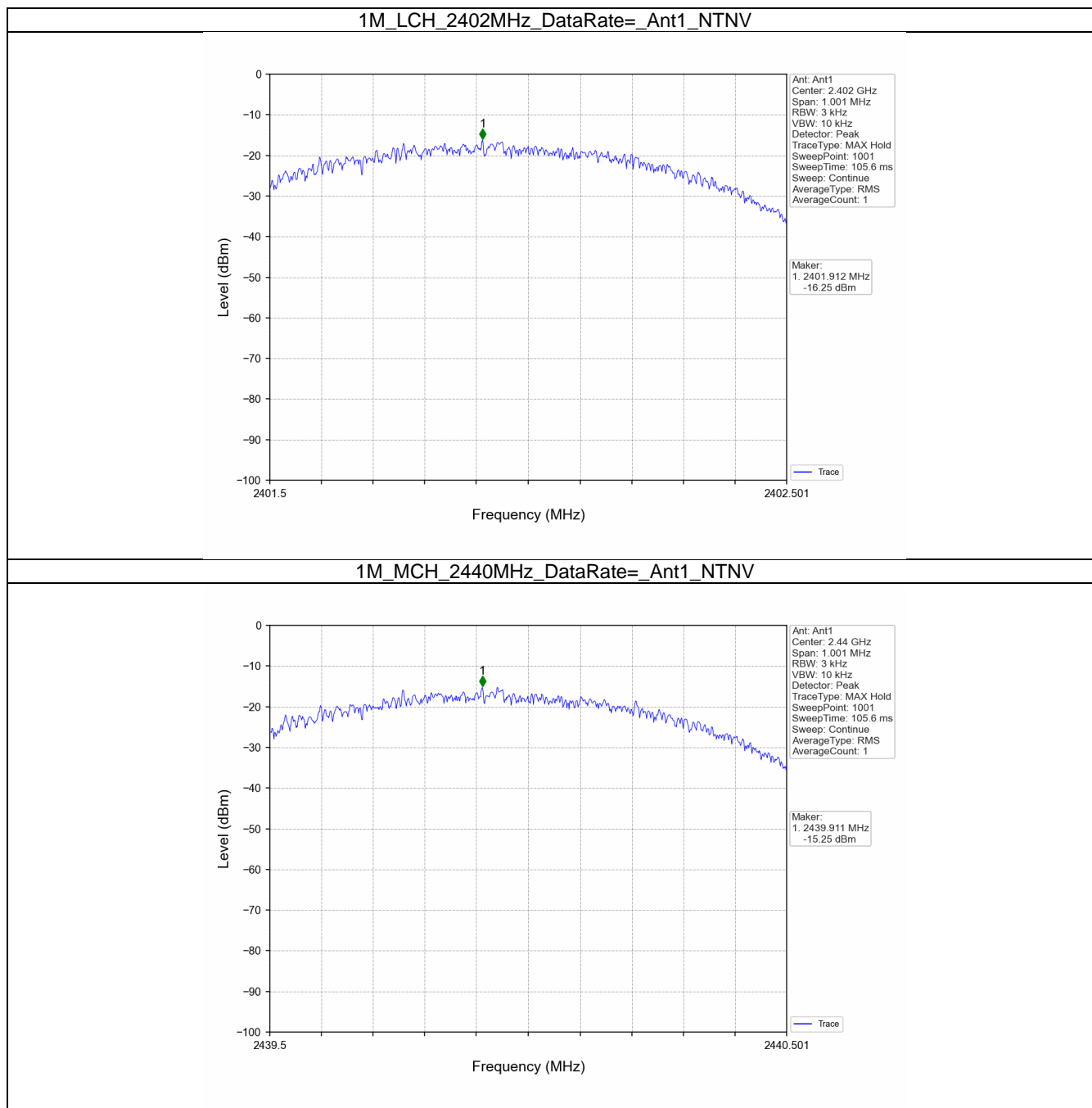
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4.1.2 Test Graph



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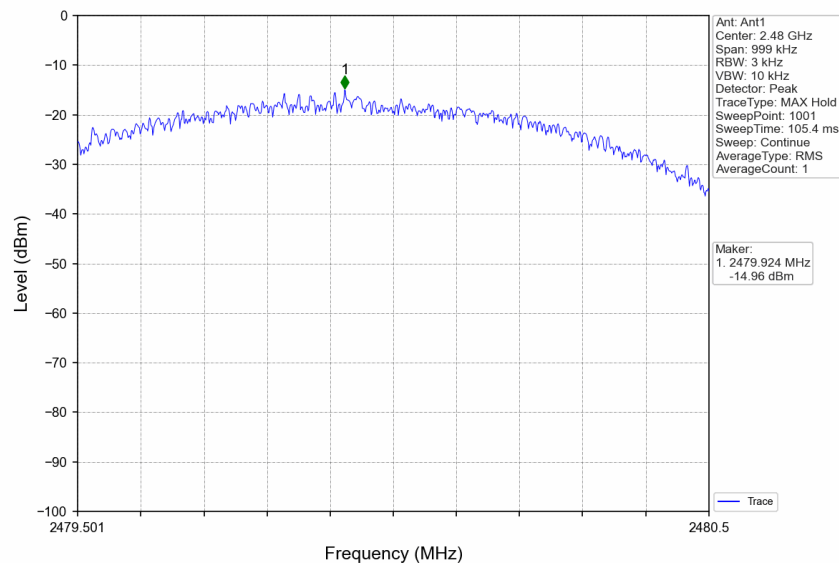
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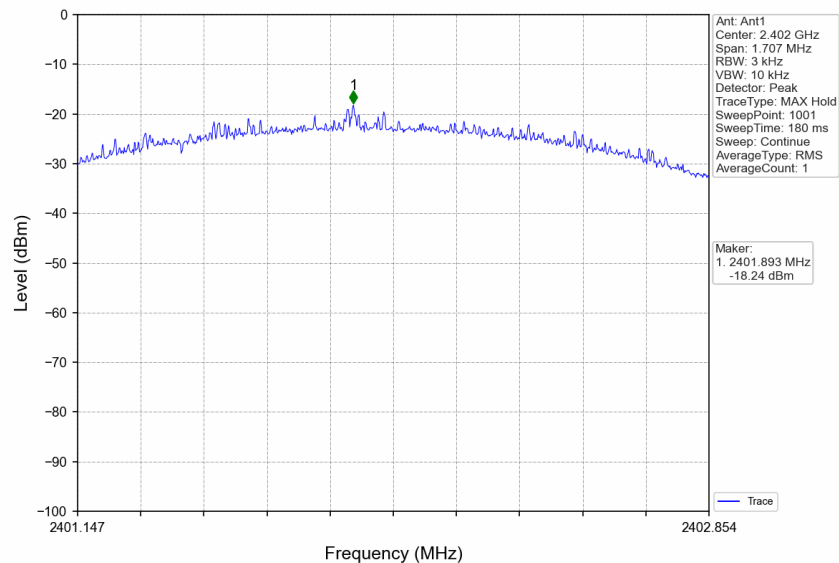
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1M_HCH_2480MHz_DataRate=_Ant1_NTNV



2M_LCH_2402MHz_DataRate=_Ant1_NTNV



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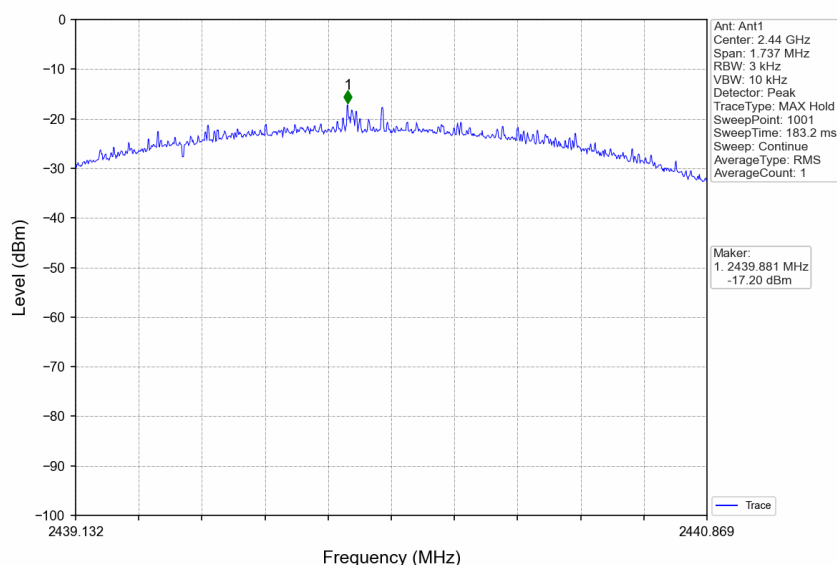
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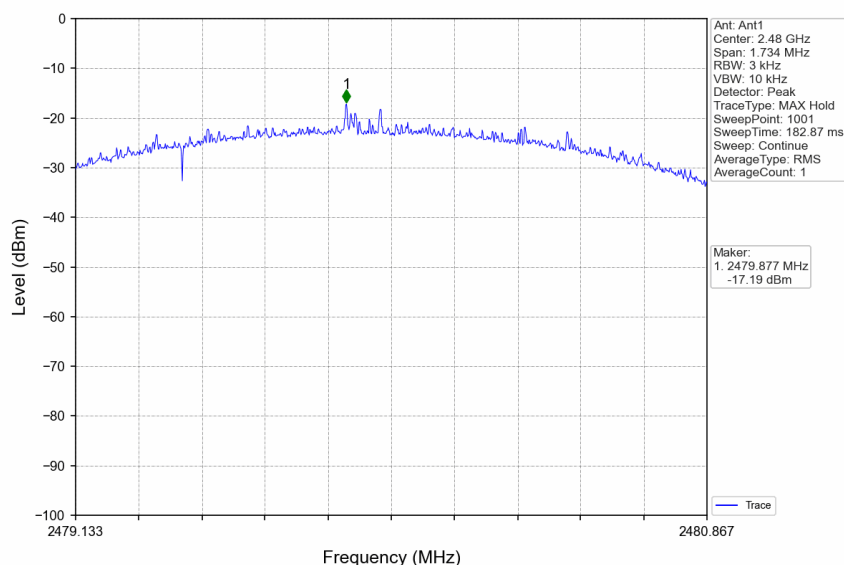
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
1M	SISO	2402	1	-0.46
		2440	1	0.28
		2480	1	-0.29
2M	SISO	2402	1	-0.49
		2440	1	0.20
		2480	1	-0.37

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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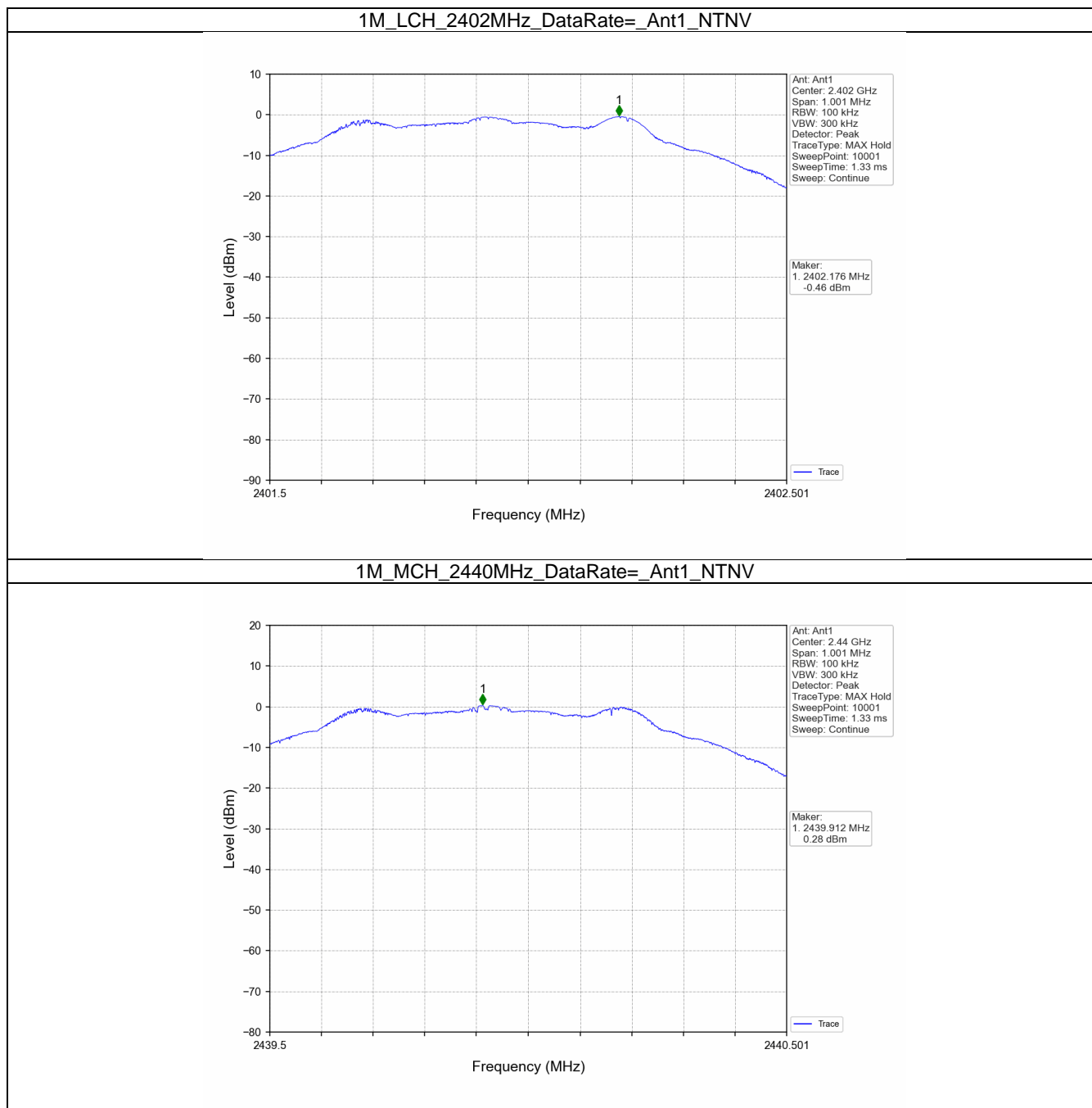
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5.1.2 Test Graph



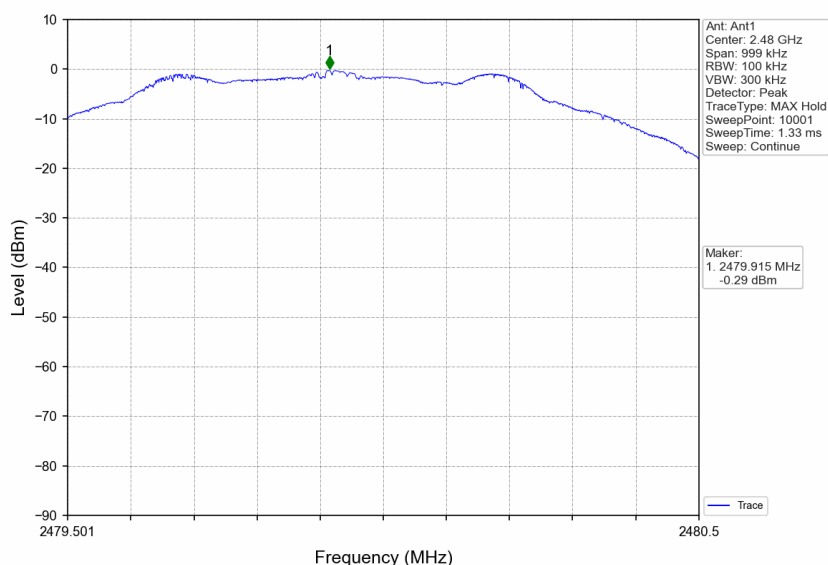
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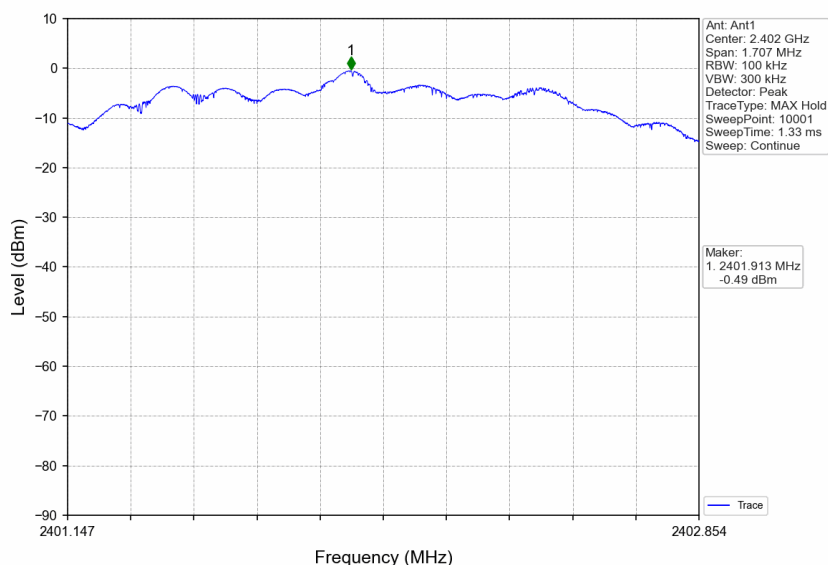
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1M_HCH_2480MHz_DataRate=_ Ant1_NTNV



2M_LCH_2402MHz_DataRate=_ Ant1_NTNV



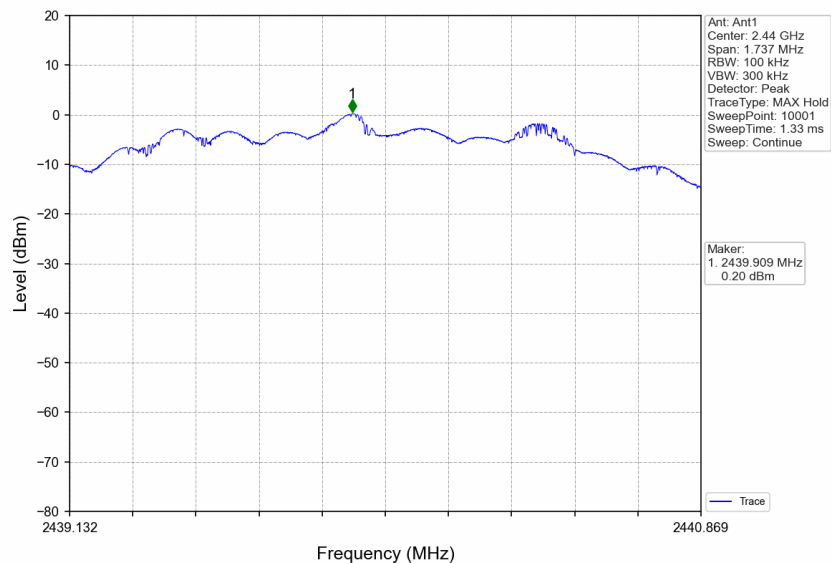
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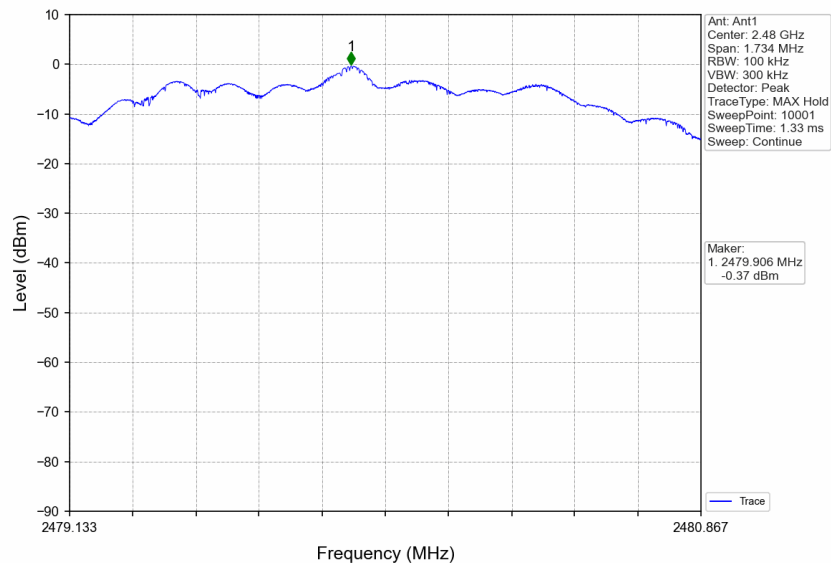
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2M_HCH_2480MHz_DataRate=_Ant1_NTNV



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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	0.28	-19.72	Pass
		2440	1	0.28	-19.72	Pass
		2480	1	0.28	-19.72	Pass
2M	SISO	2402	1	0.20	-19.80	Pass
		2440	1	0.20	-19.80	Pass
		2480	1	0.20	-19.80	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.



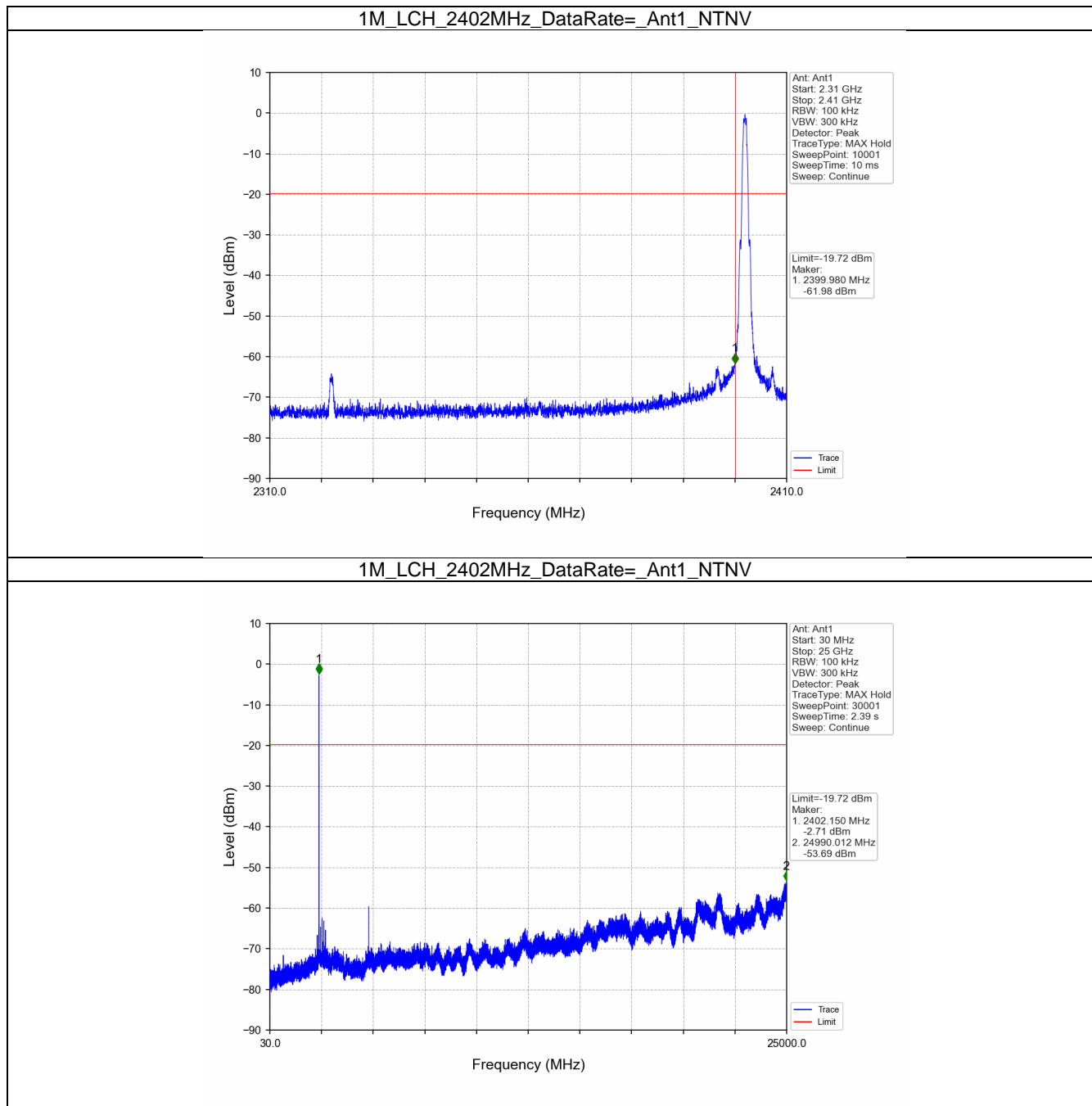
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5.2.2 Test Graph



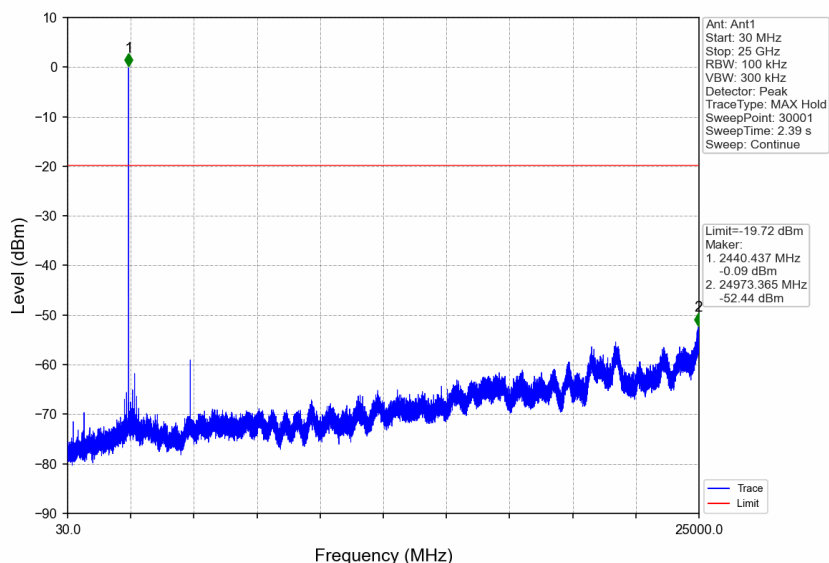
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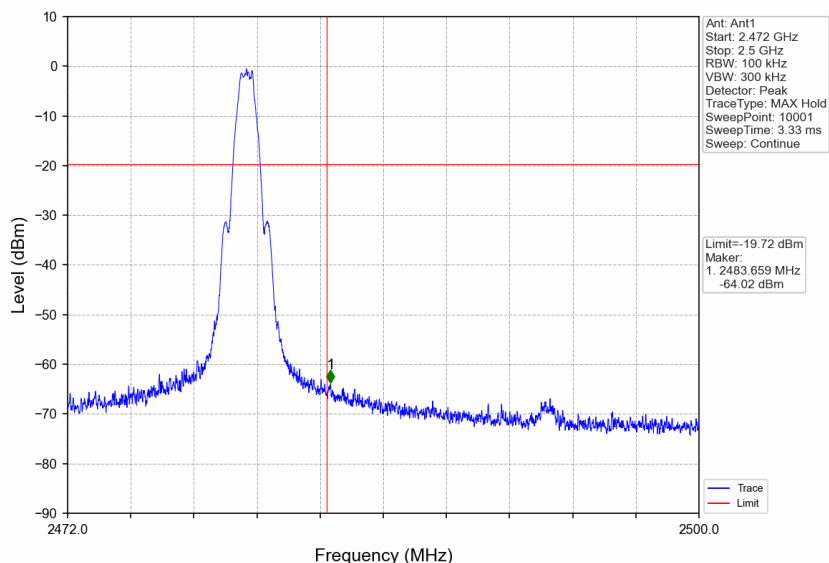
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1M_HCH_2480MHz_DataRate=_Ant1_NTNV



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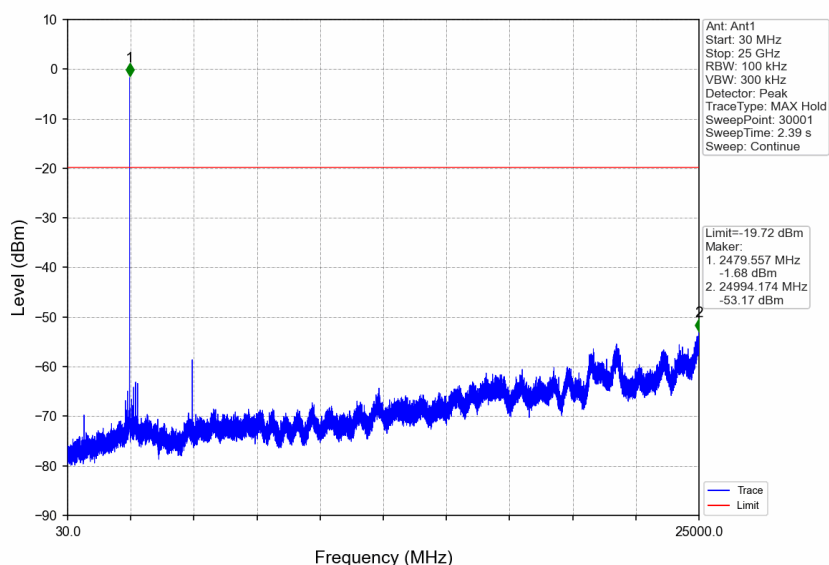
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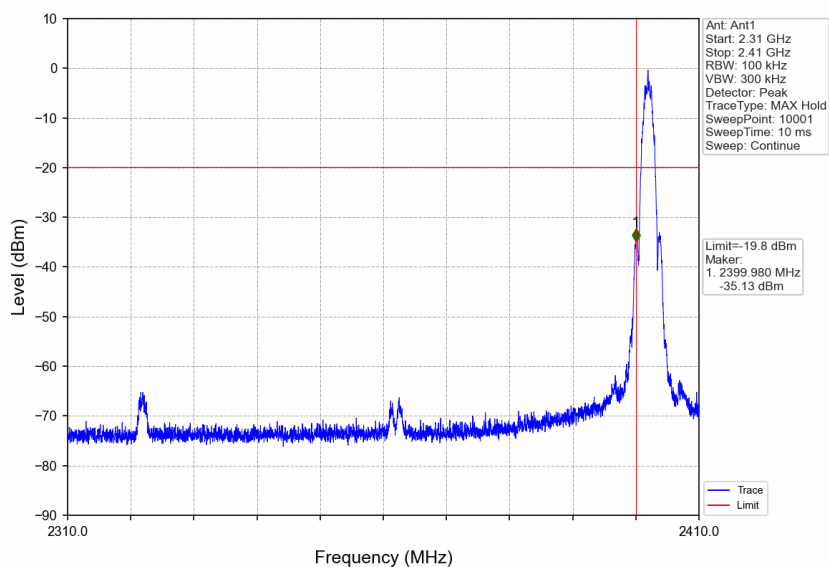
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2M_LCH_2402MHz_DataRate=_Ant1_NTNV



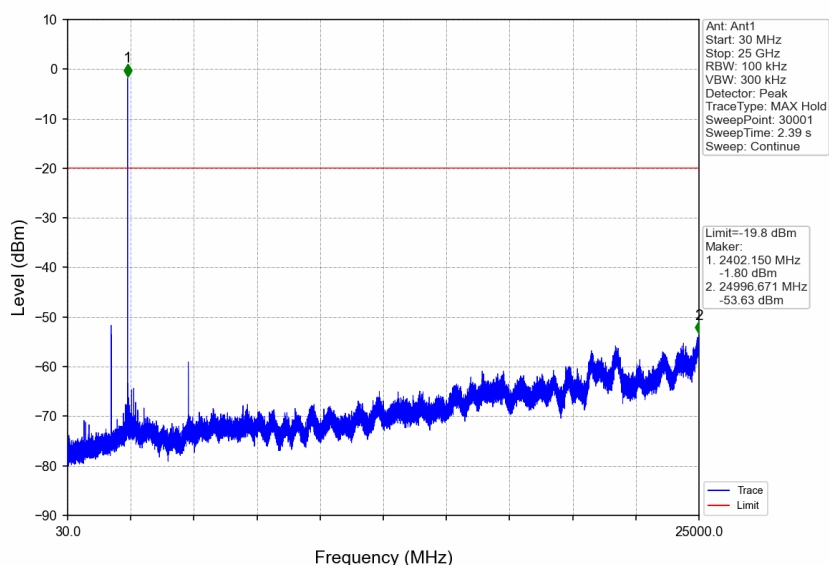
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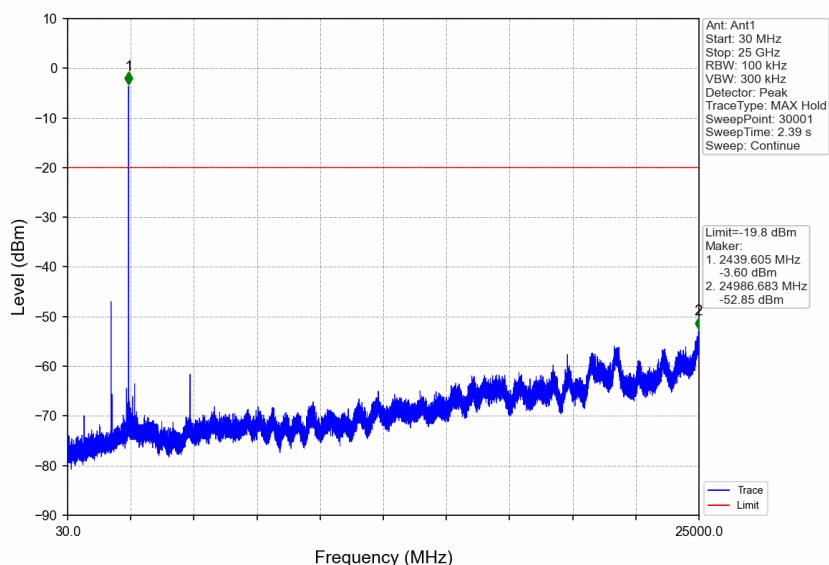
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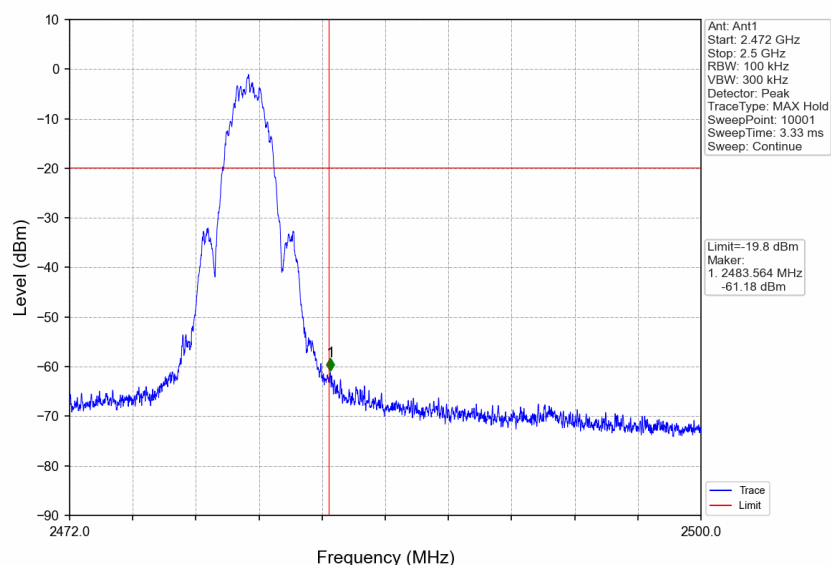
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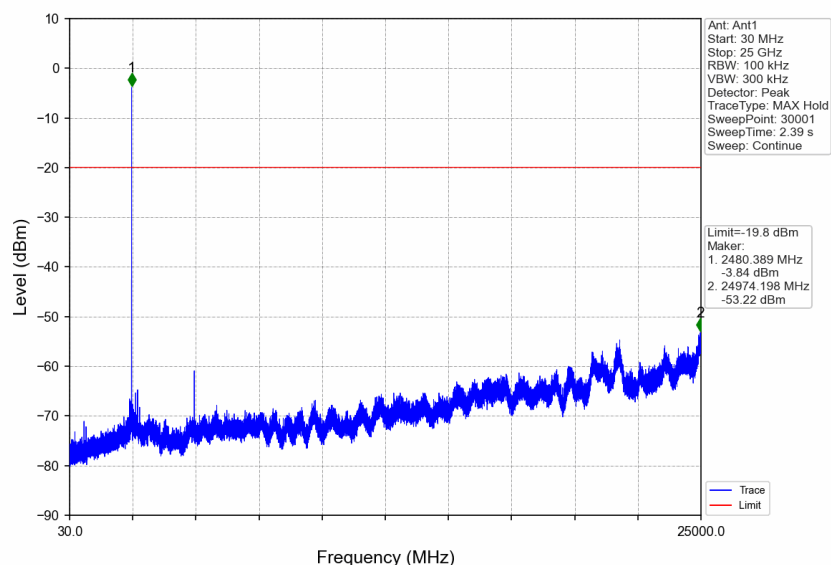
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