

Appendix A for KSCR210900010901

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 (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00



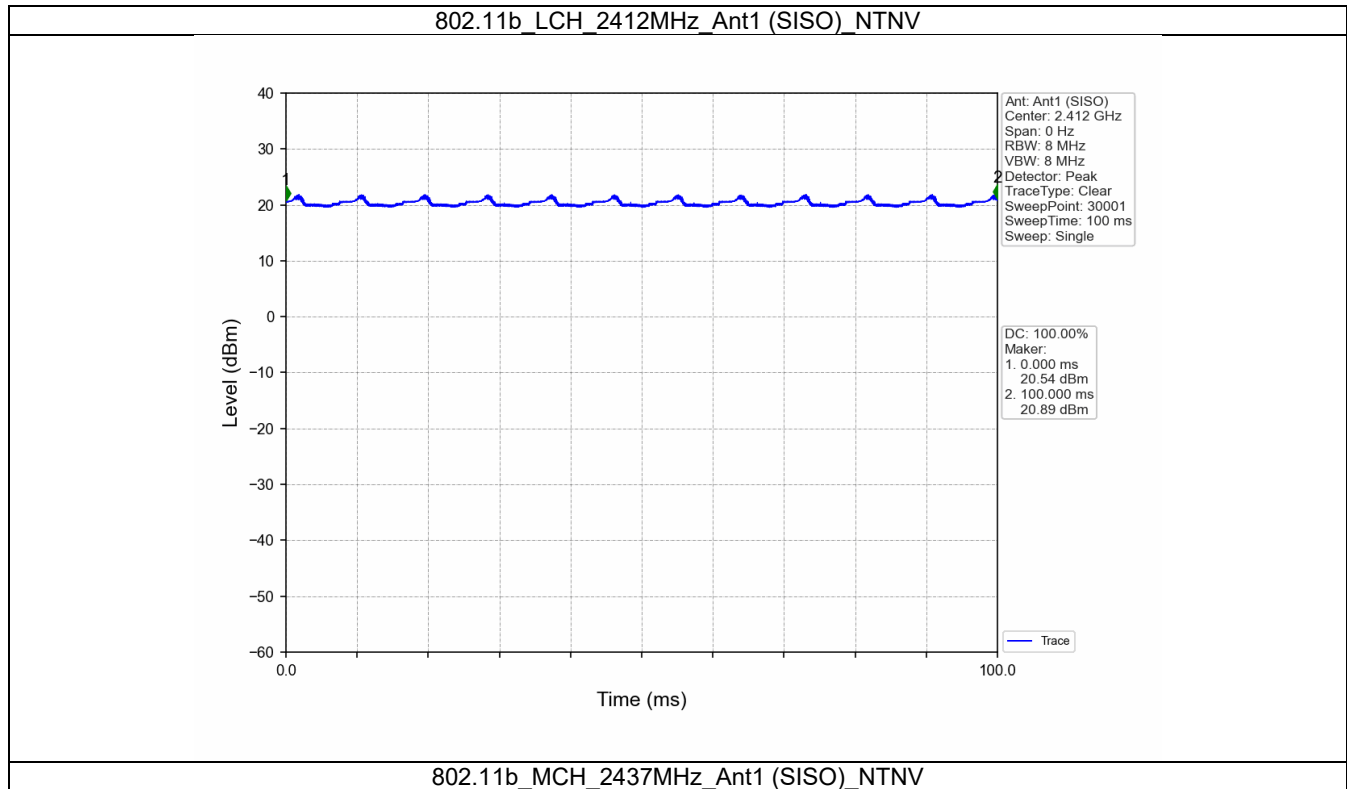
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1.1.2 Test Graph



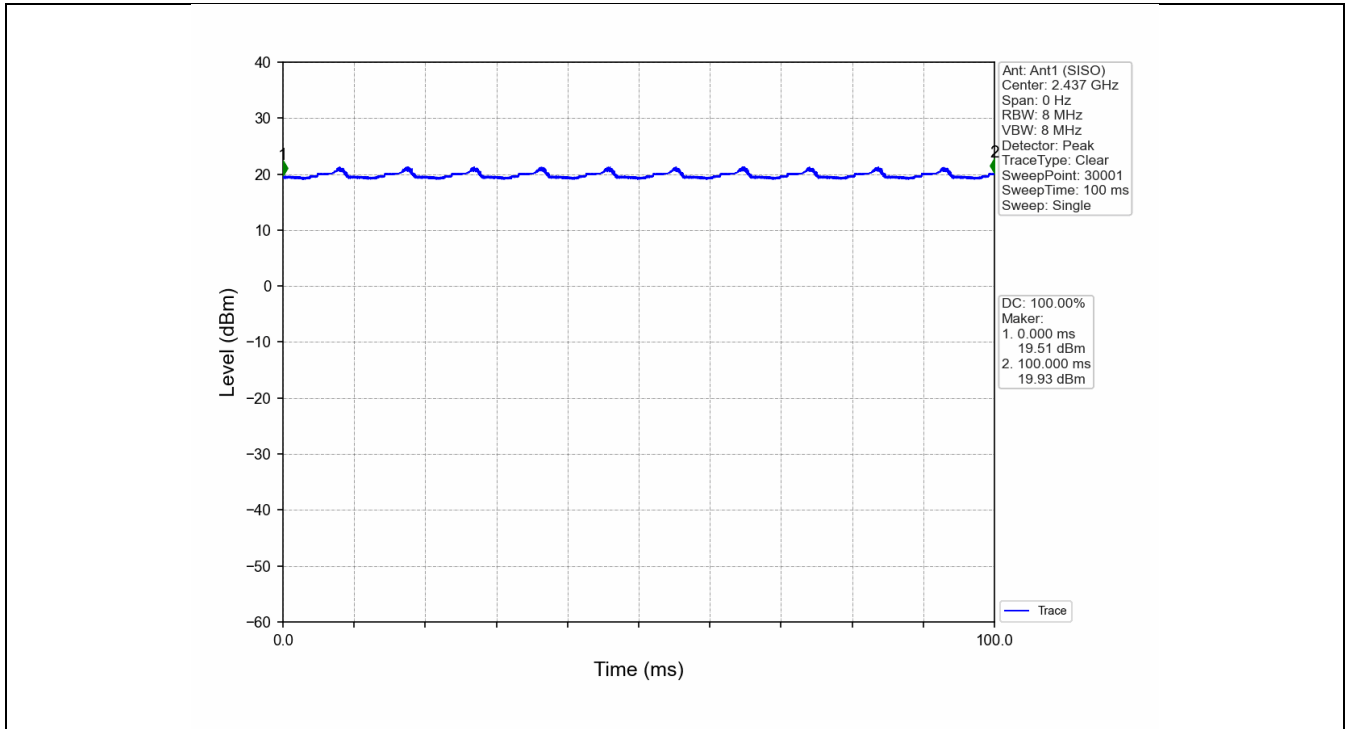
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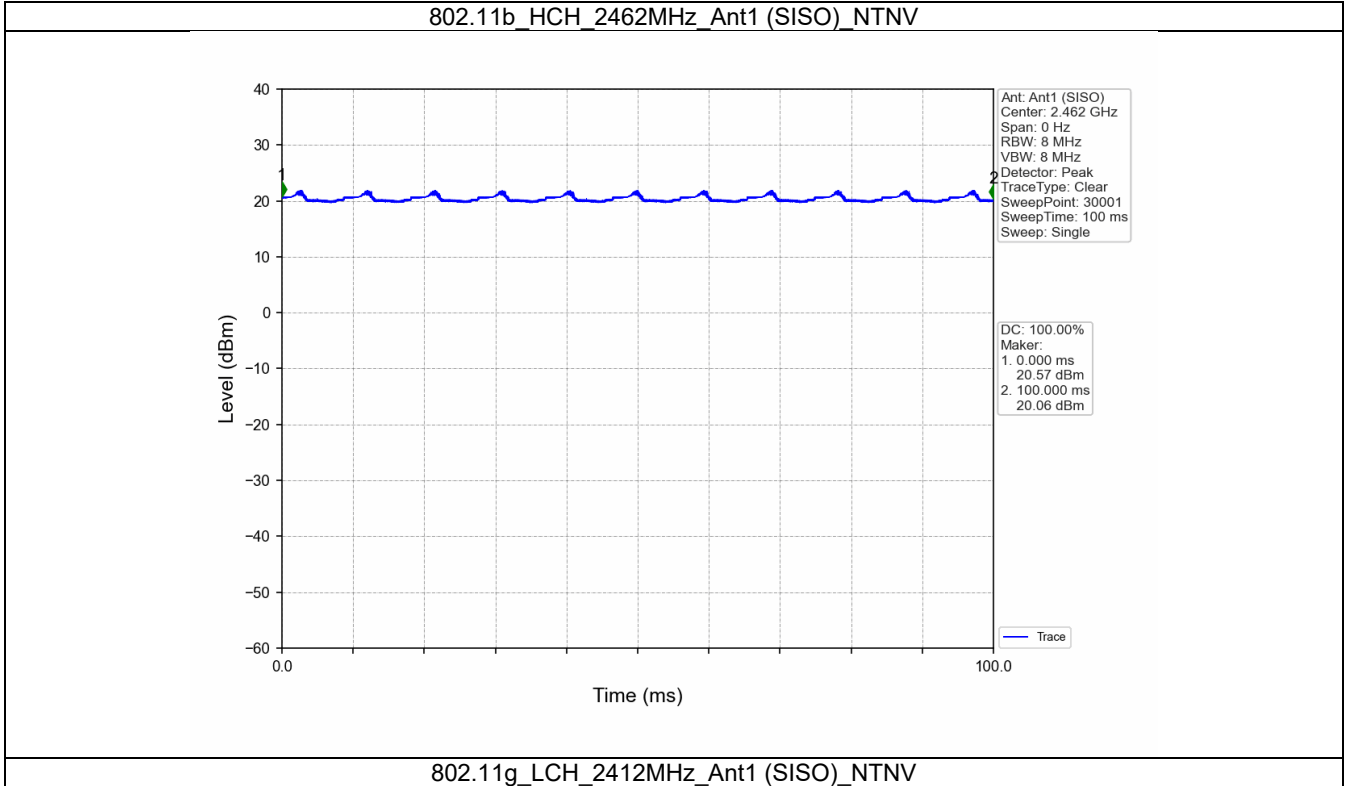


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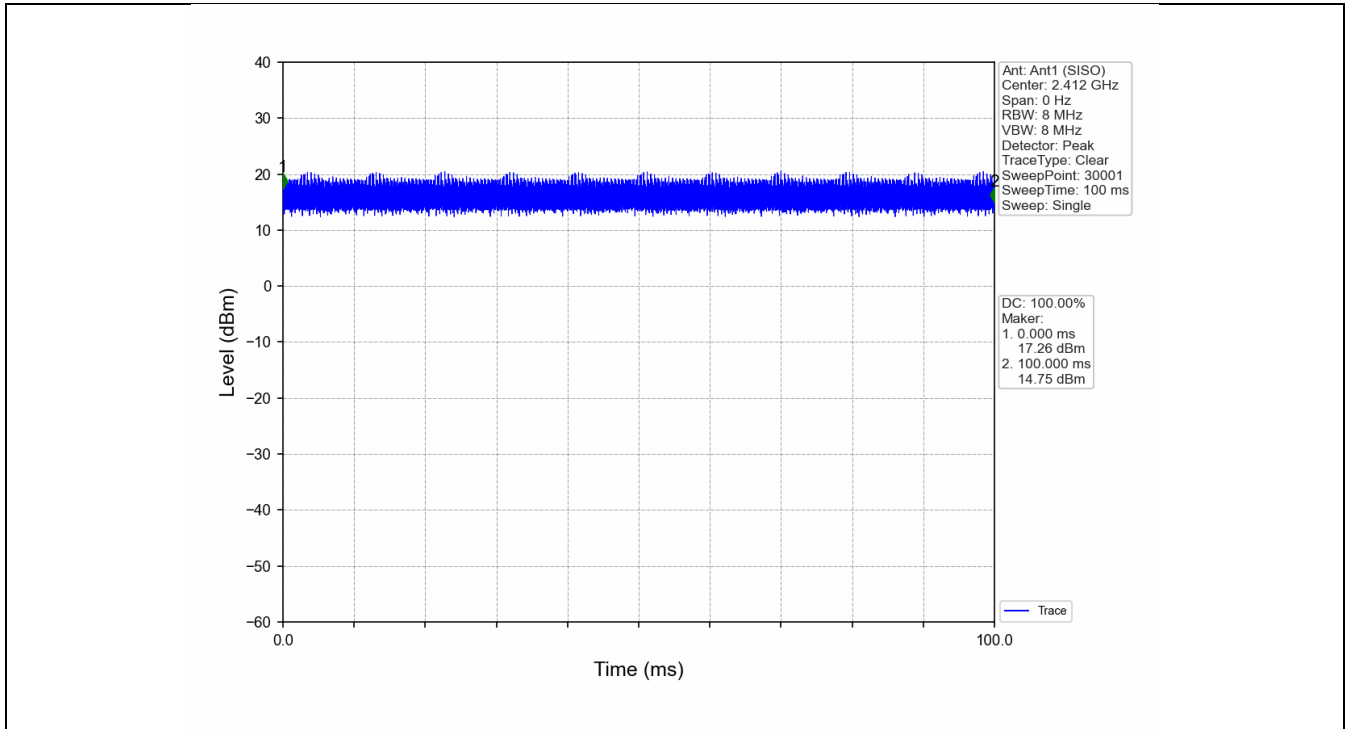


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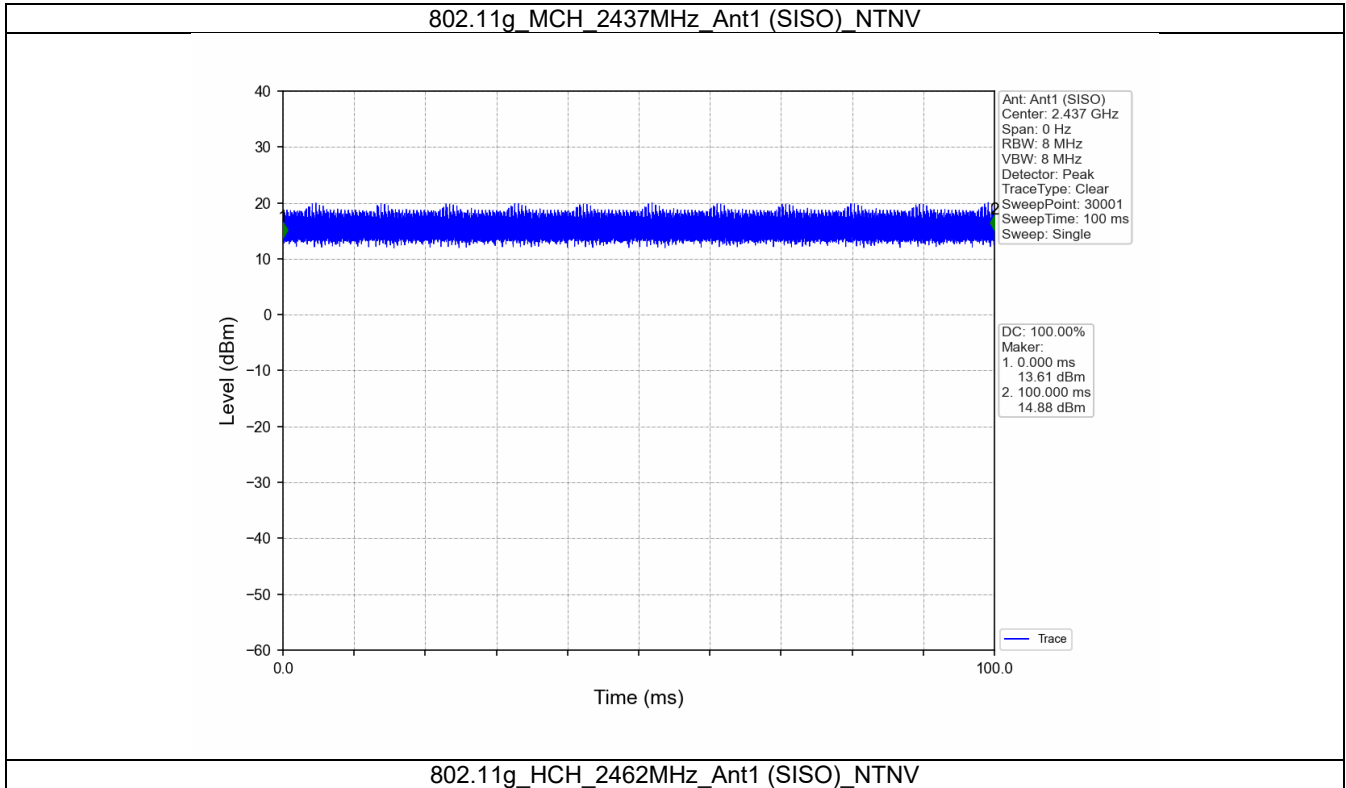


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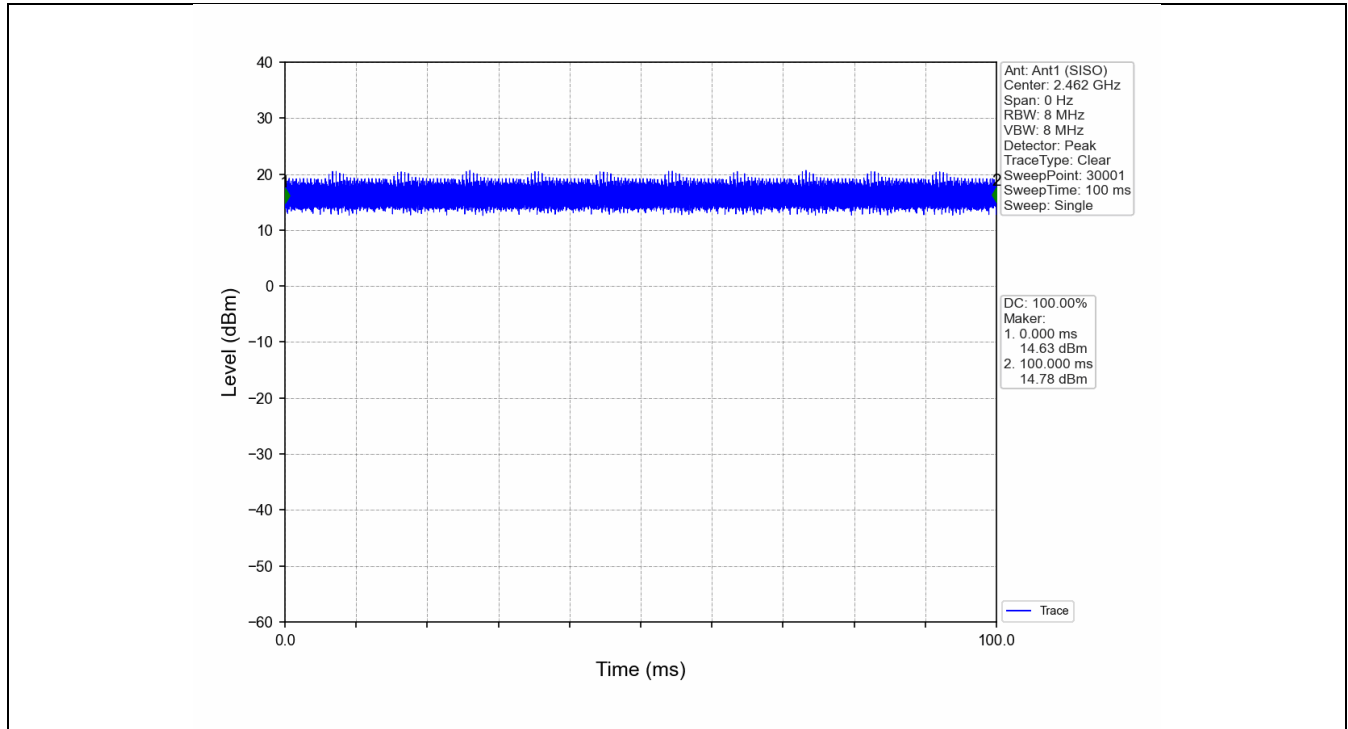


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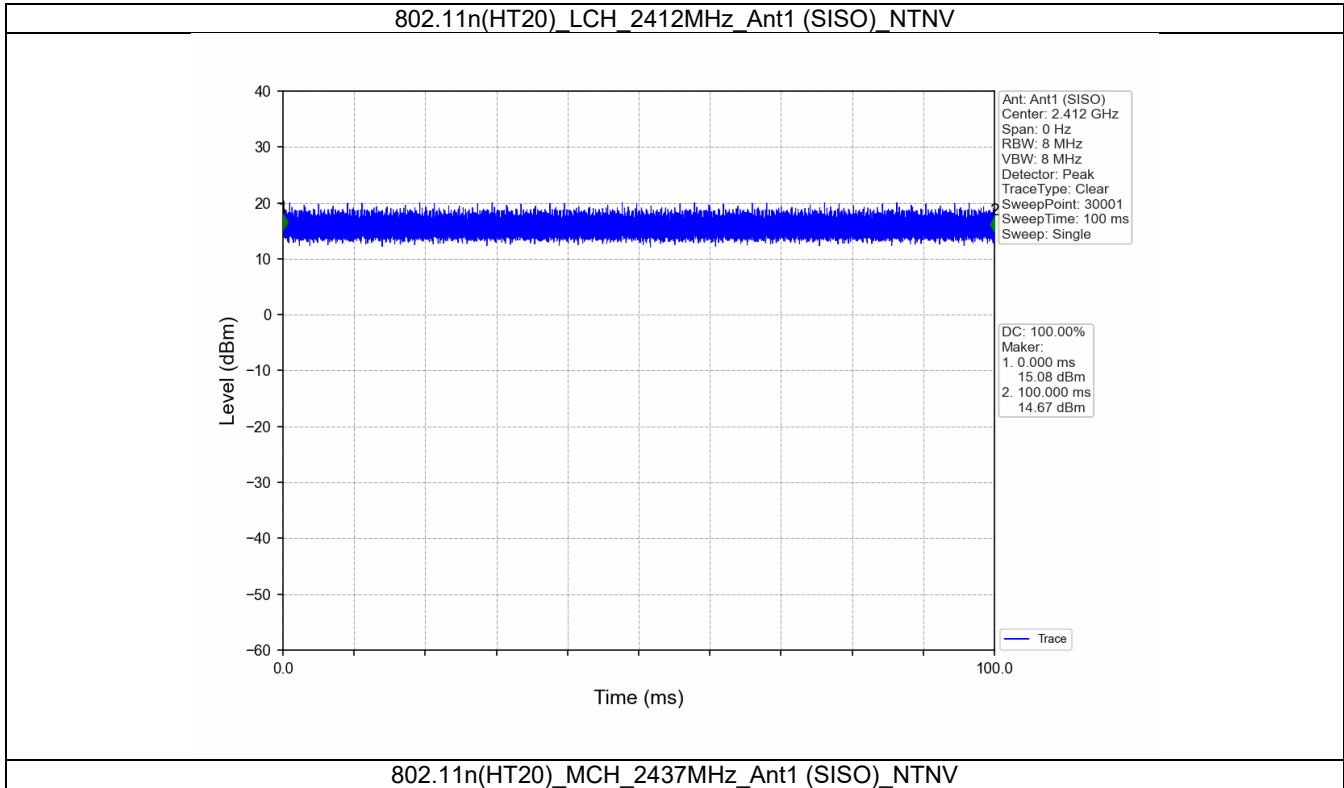


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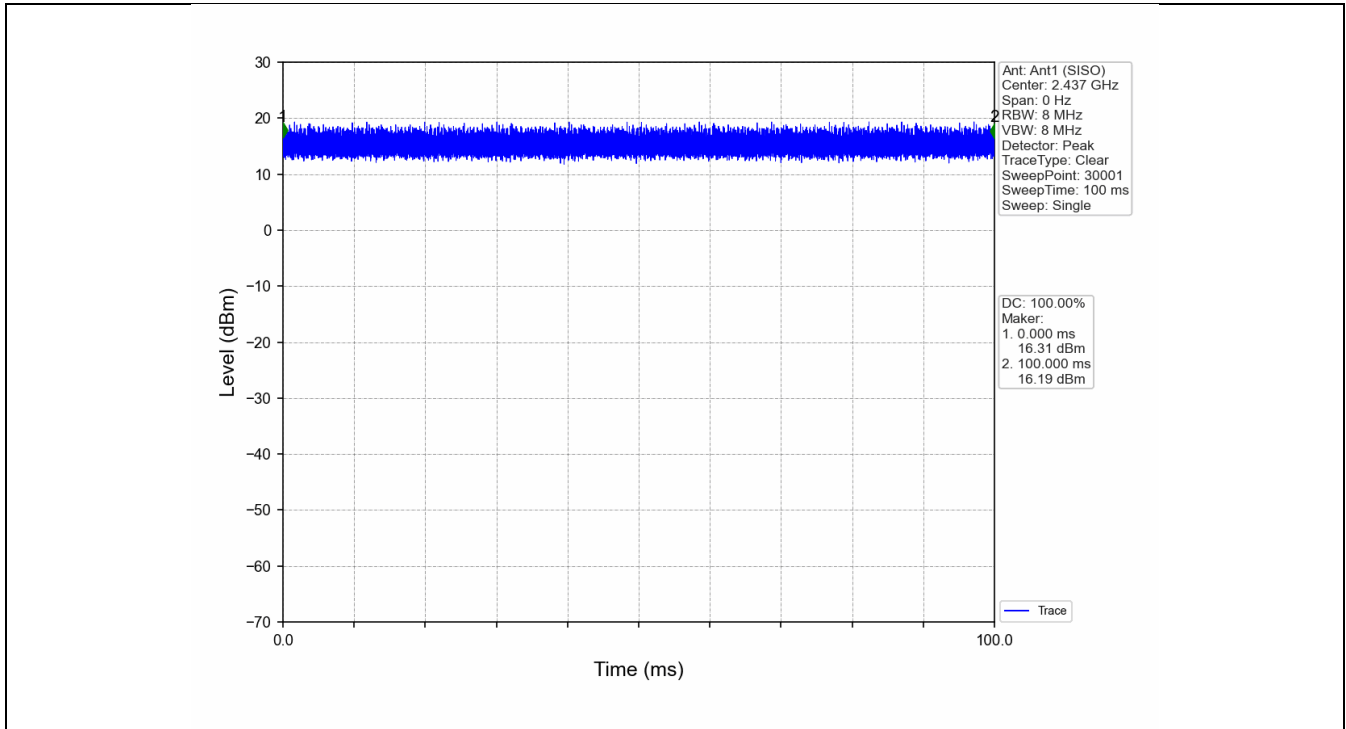


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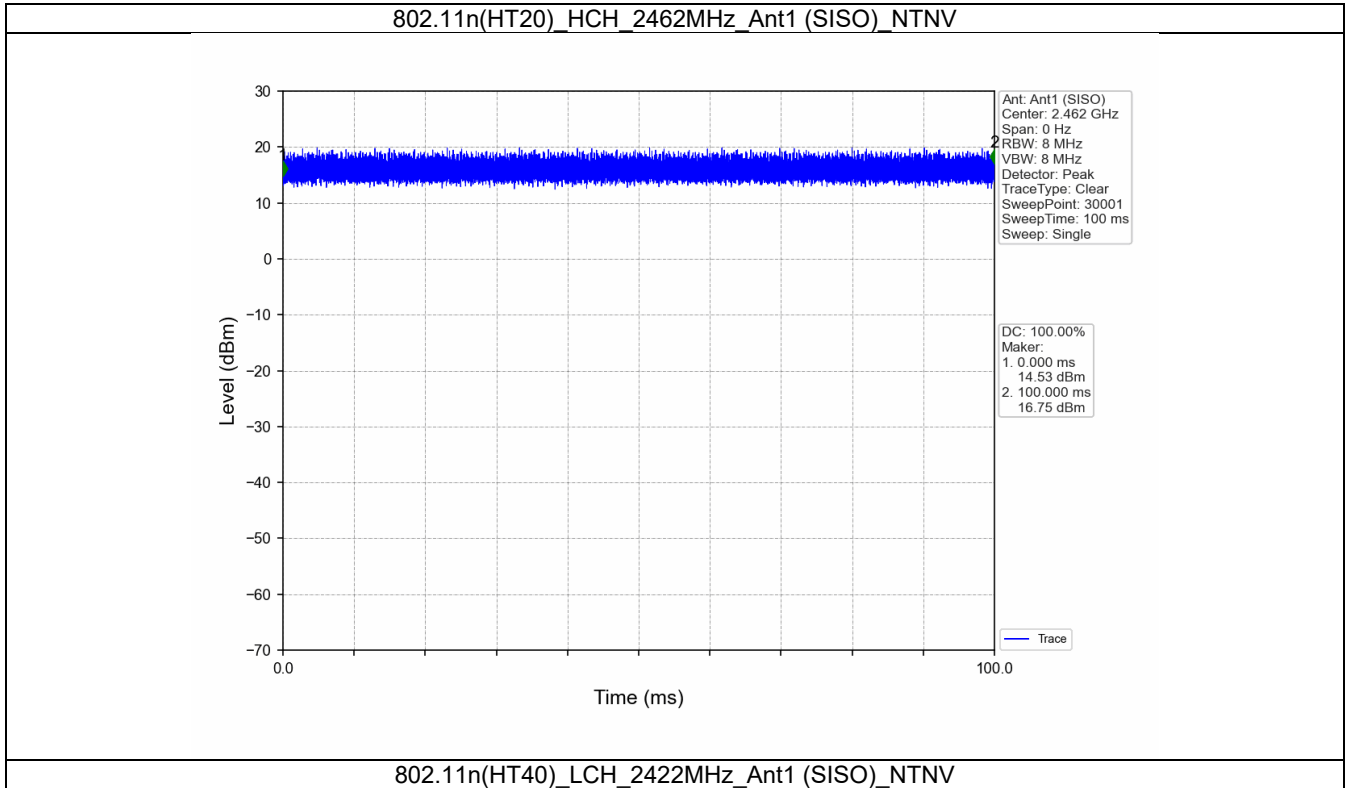


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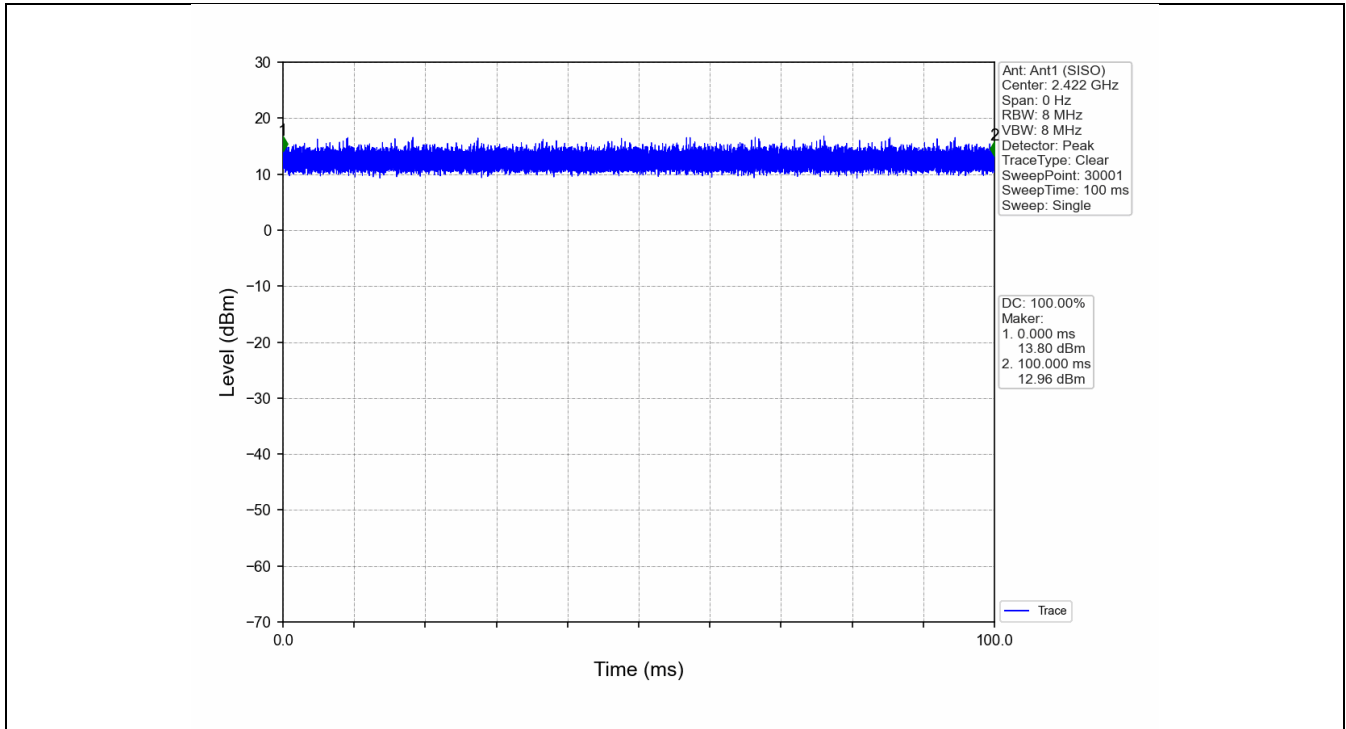


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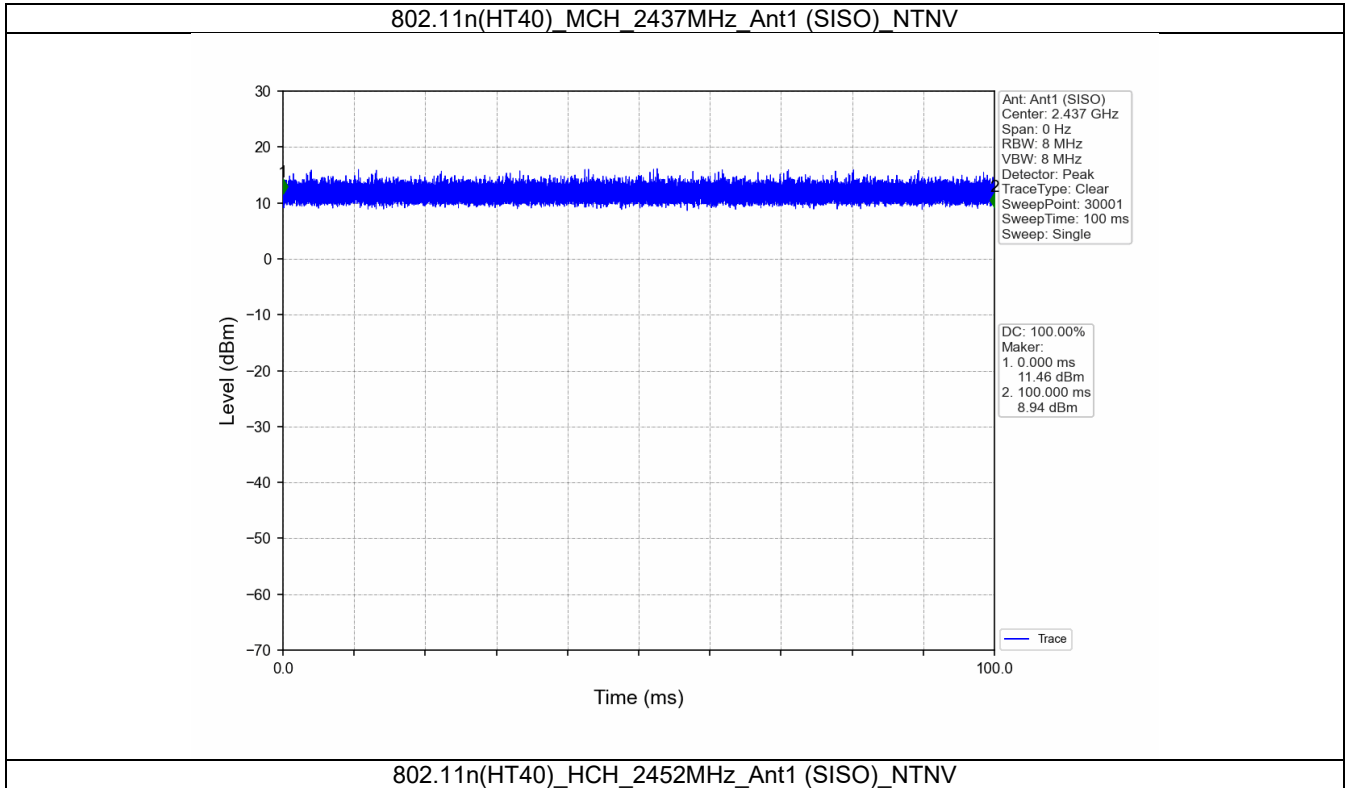


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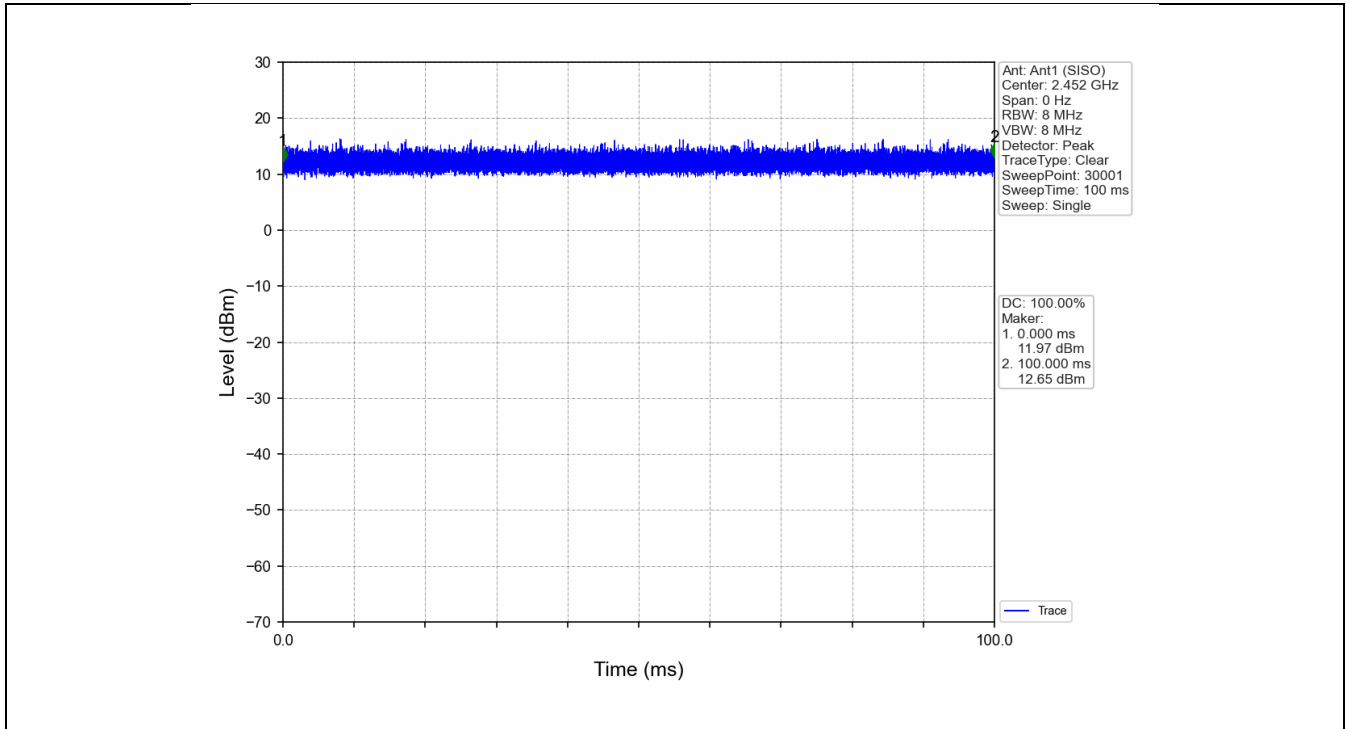


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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.866	Pass
		2437	1	14.920	Pass
		2462	1	14.968	Pass
802.11g	SISO	2412	1	17.590	Pass
		2437	1	17.641	Pass
		2462	1	17.824	Pass
802.11n (HT20)	SISO	2412	1	18.390	Pass
		2437	1	18.386	Pass
		2462	1	18.512	Pass
802.11n (HT40)	SISO	2422	1	36.222	Pass
		2437	1	36.209	Pass
		2452	1	36.247	Pass

2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

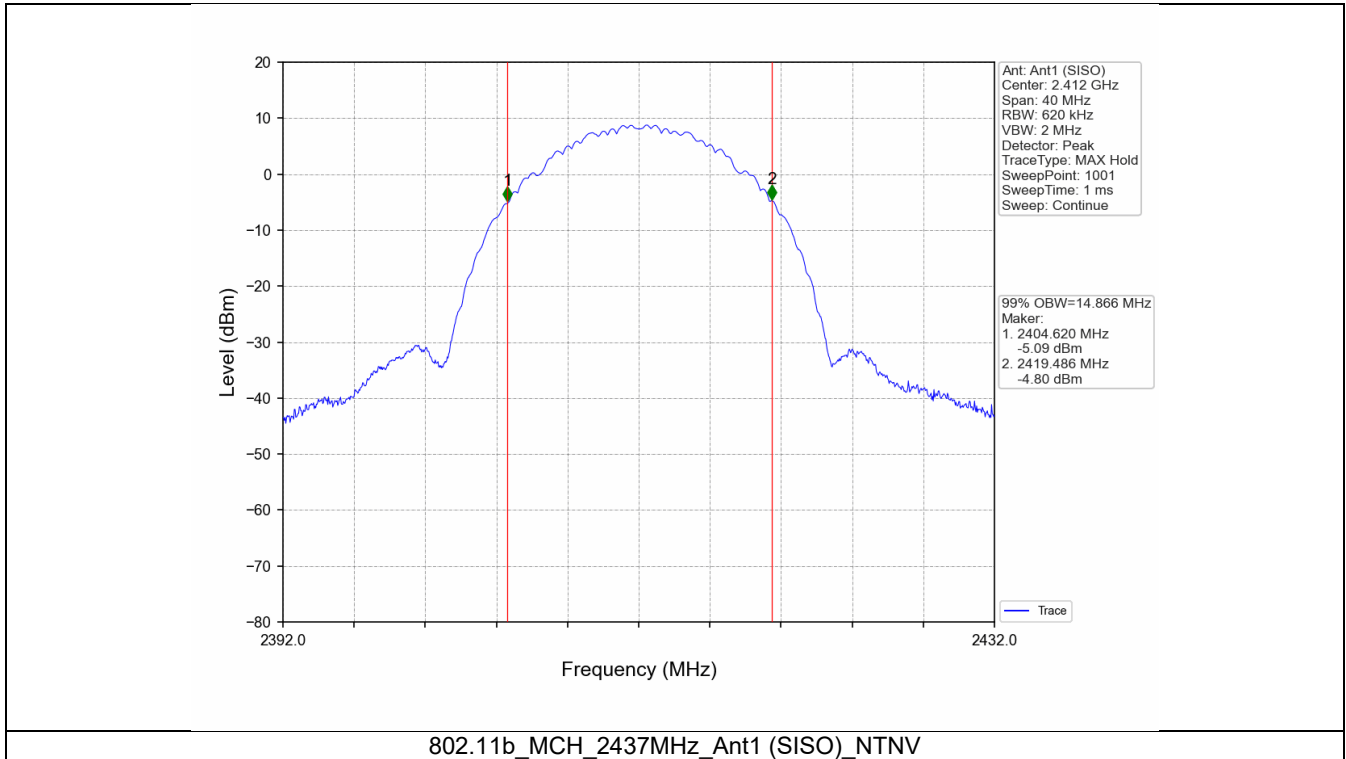


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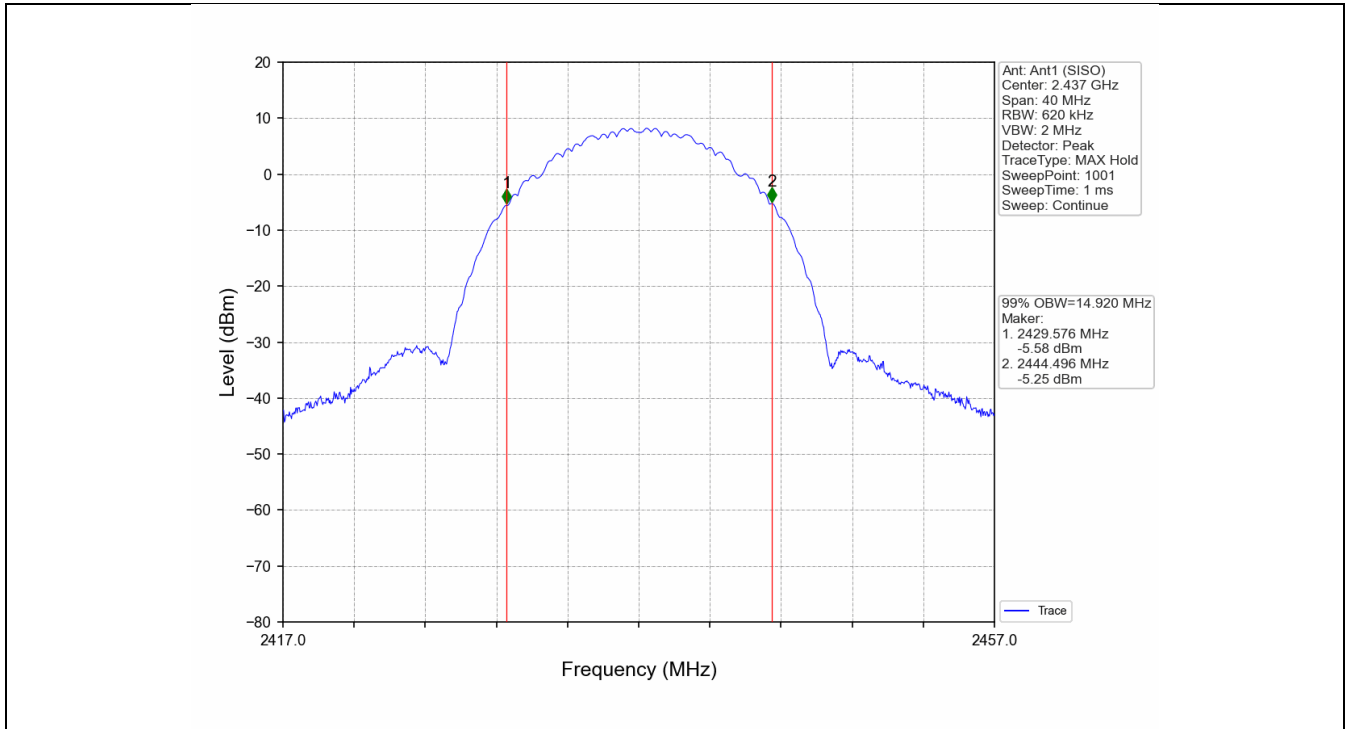


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802.11b HCH 2462MHz Ant1 (SISO) NTNv

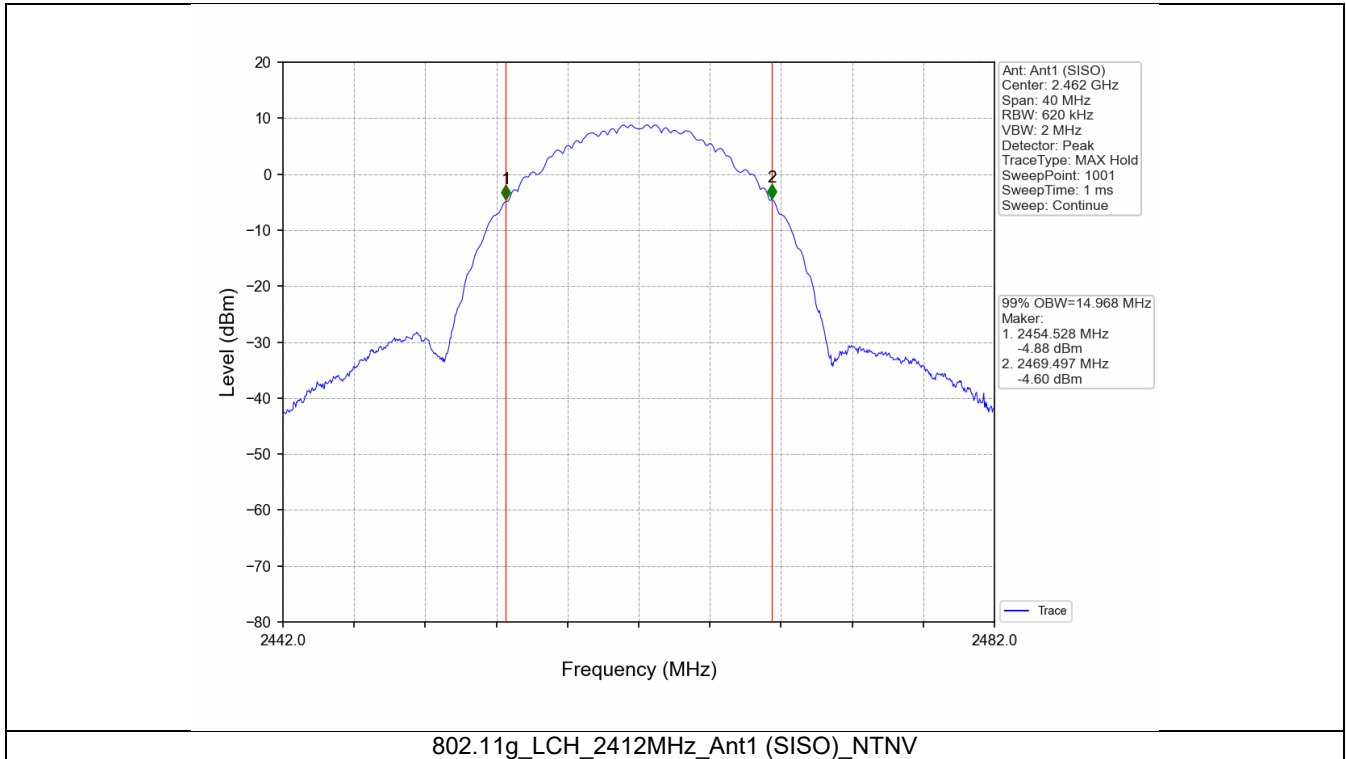


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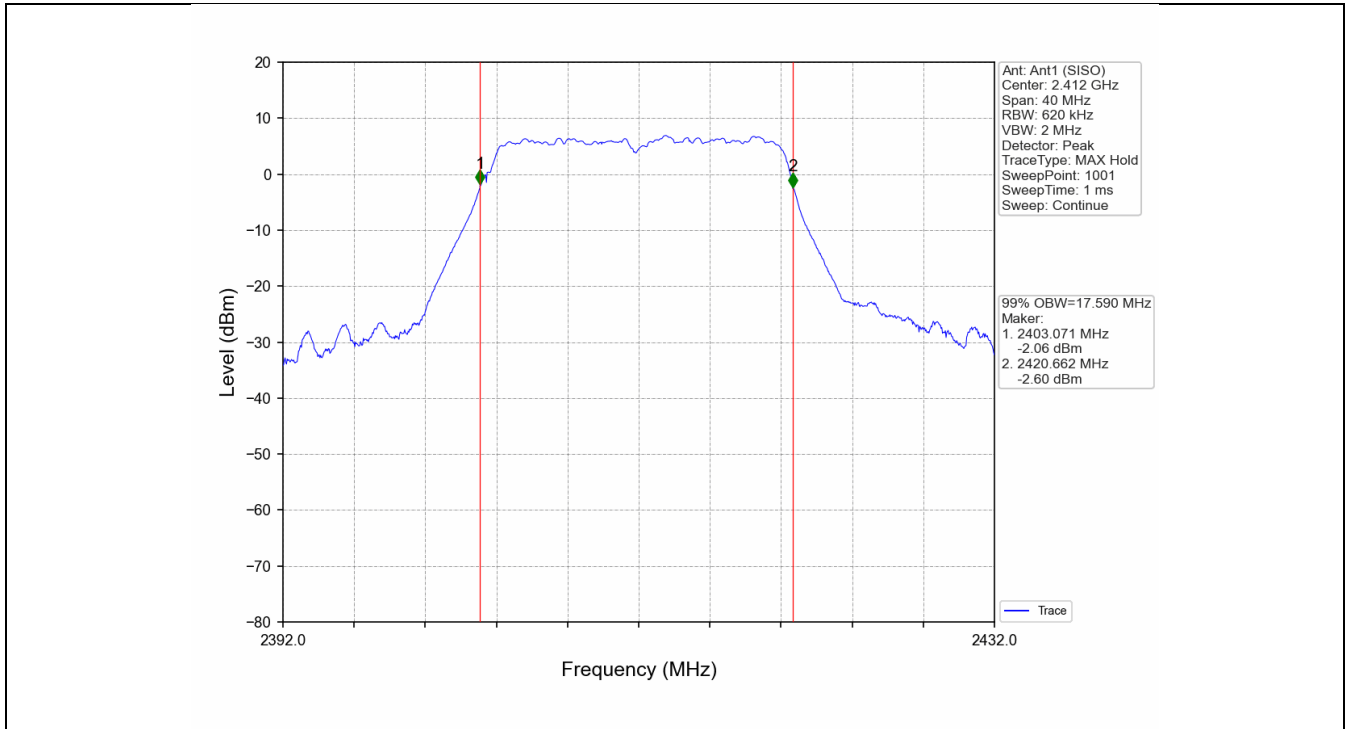


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802.11g MCH 2437MHz Ant1 (SISO) NTN

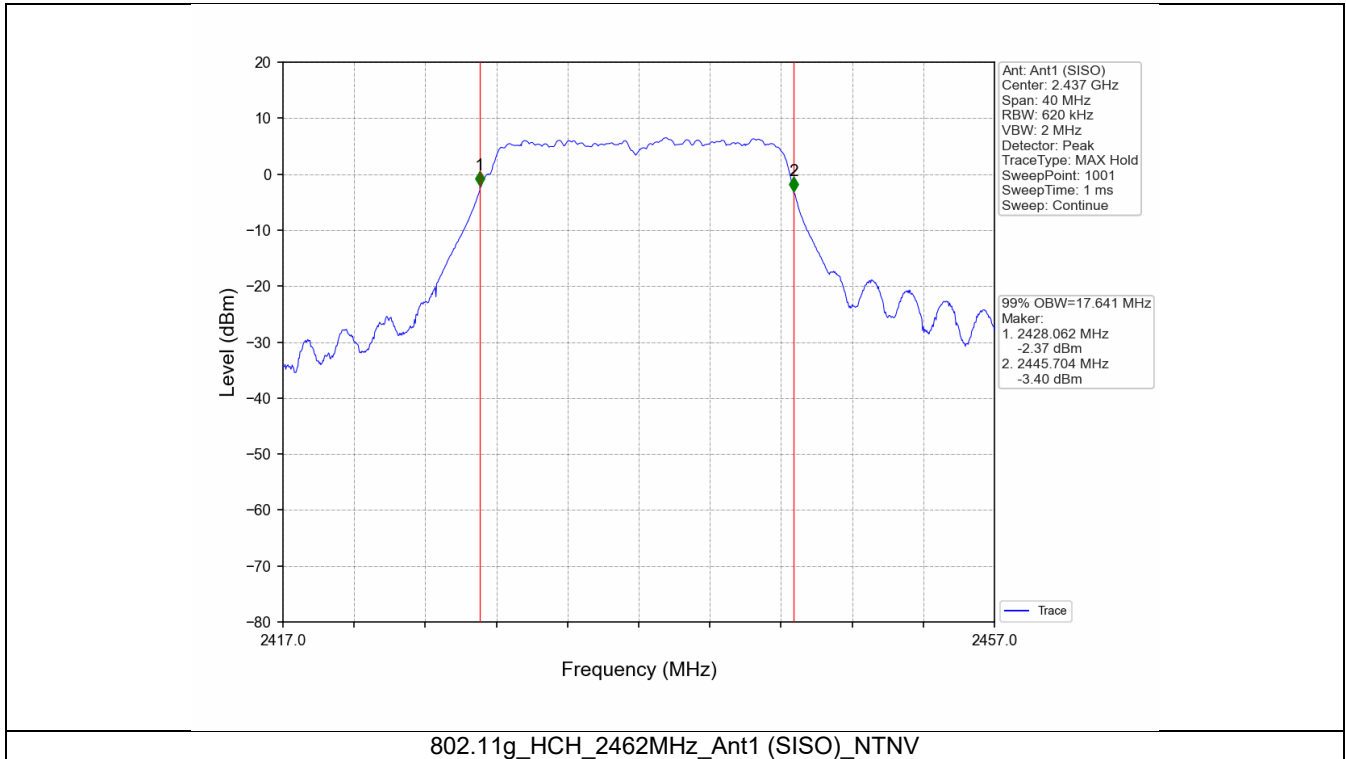


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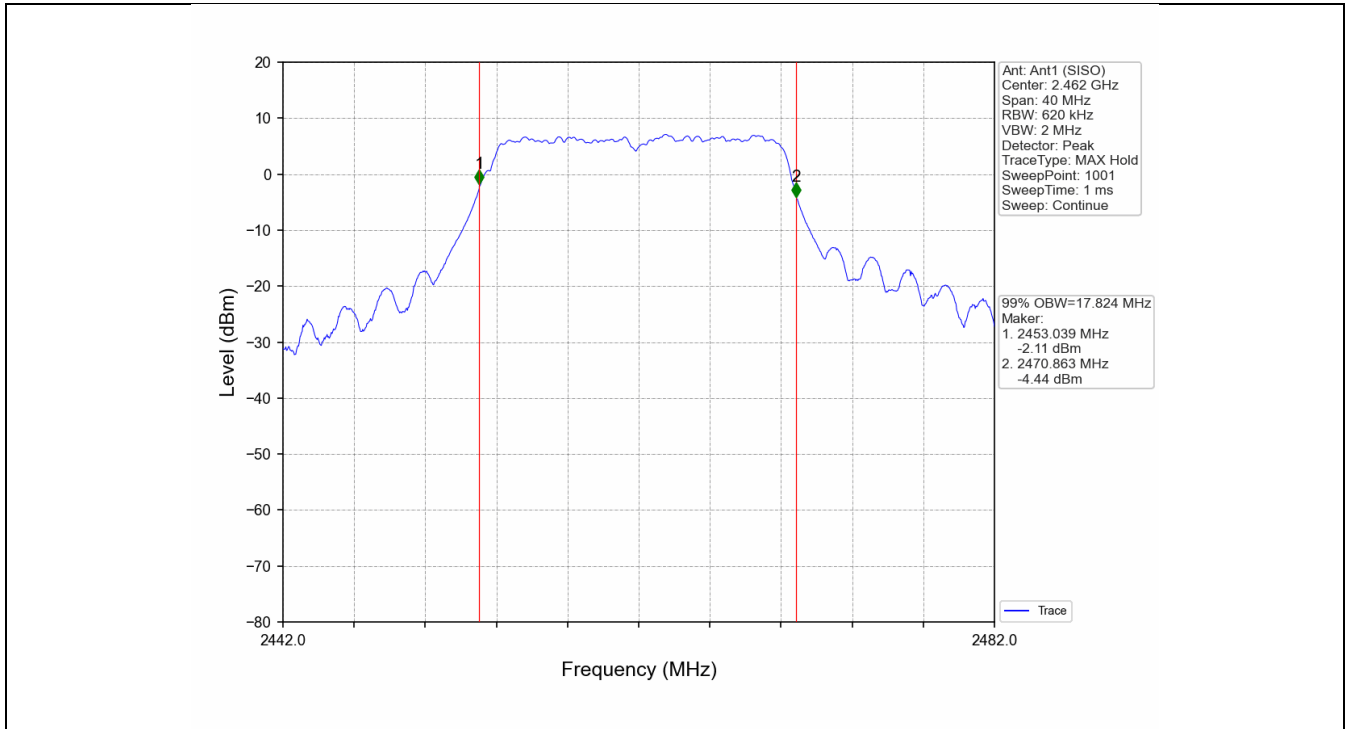


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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV

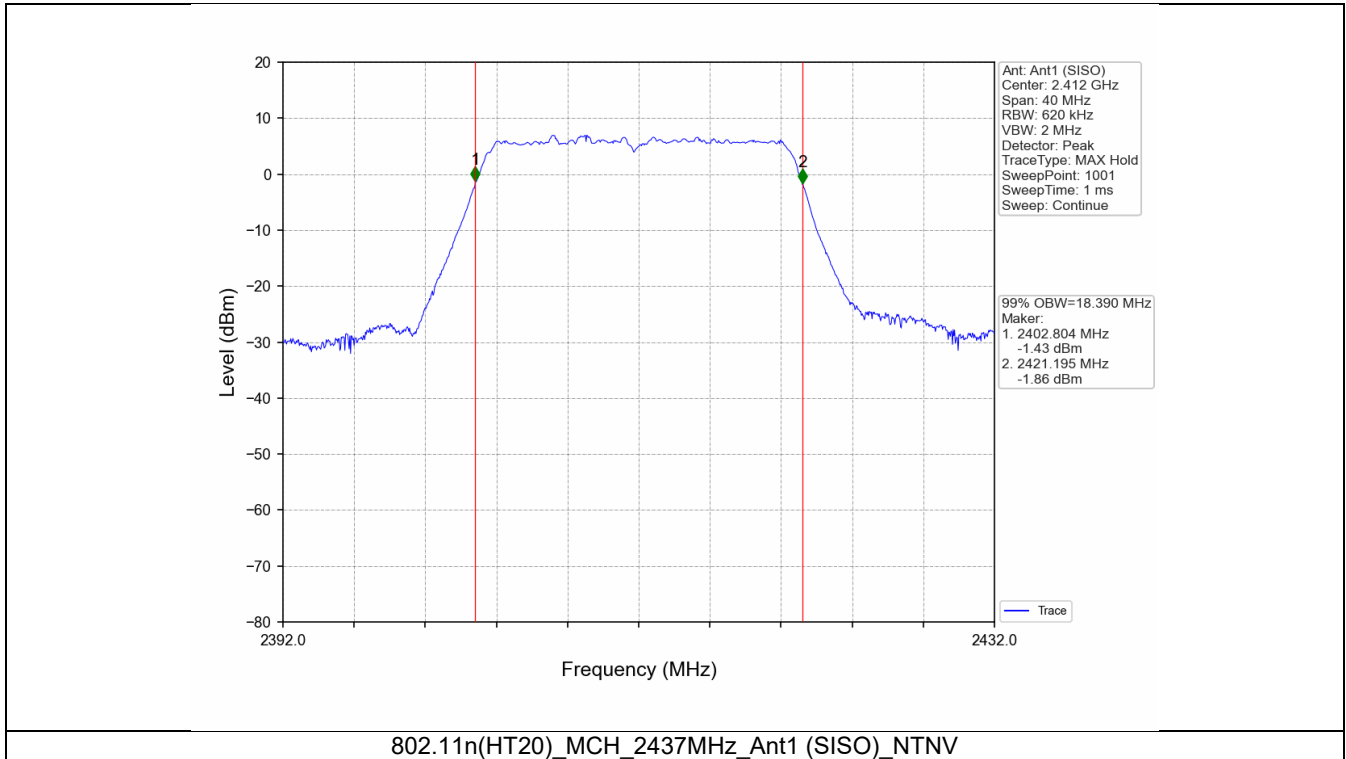


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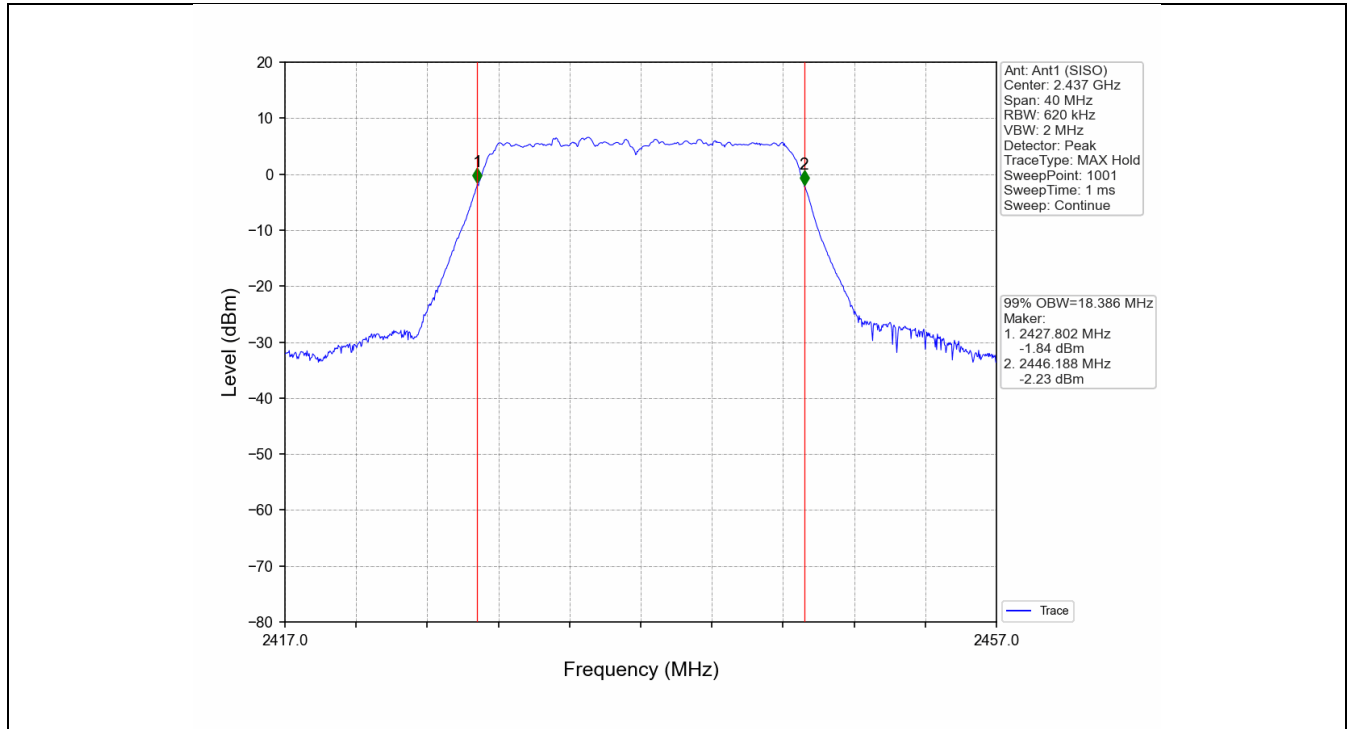


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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN

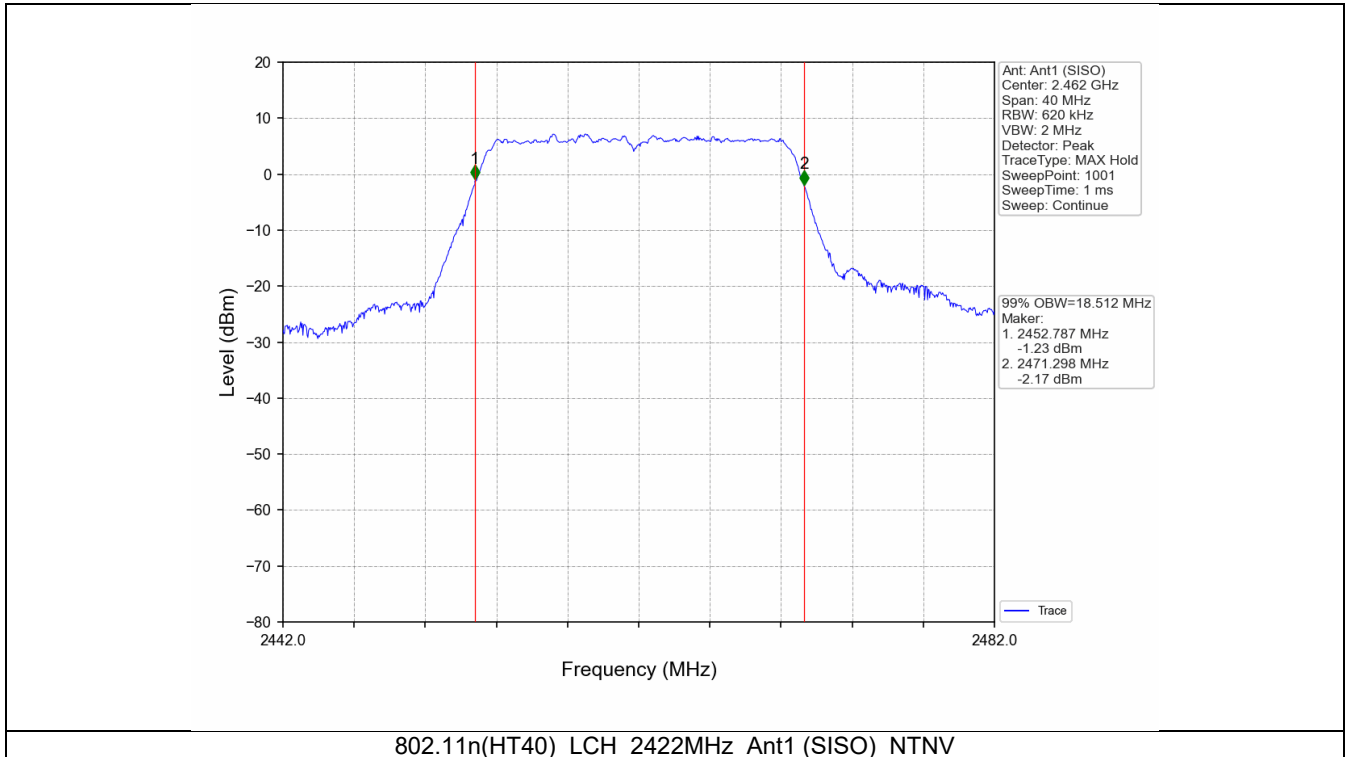


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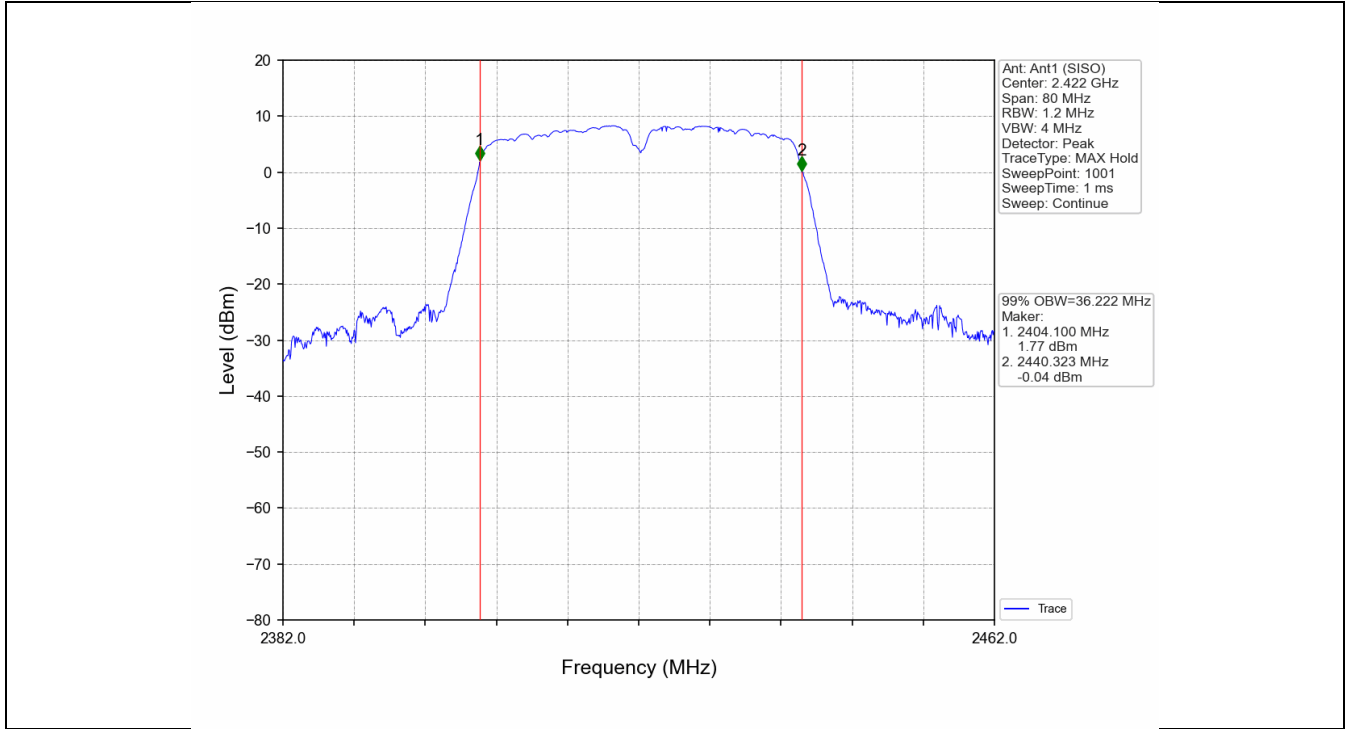


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802.11n(HT40) MCH_2437MHz Ant1 (SISO) NTV

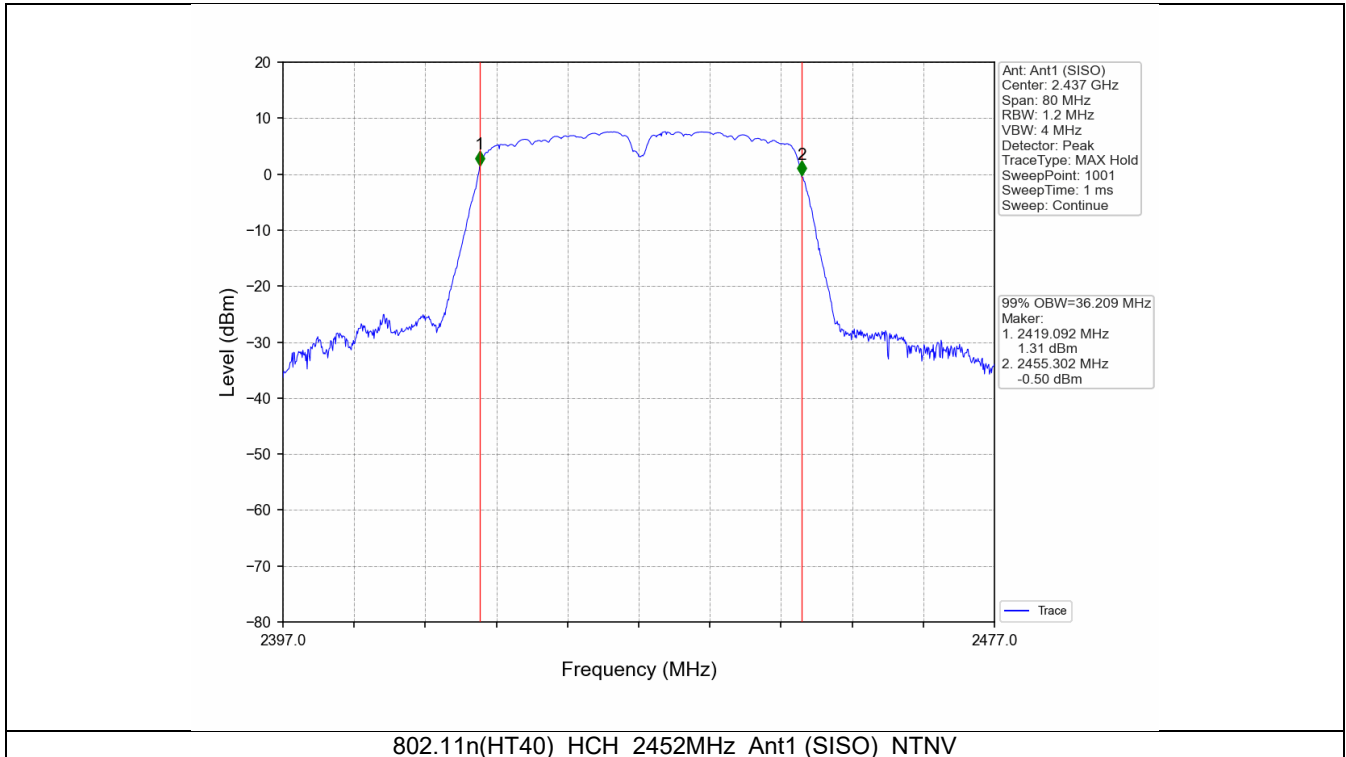


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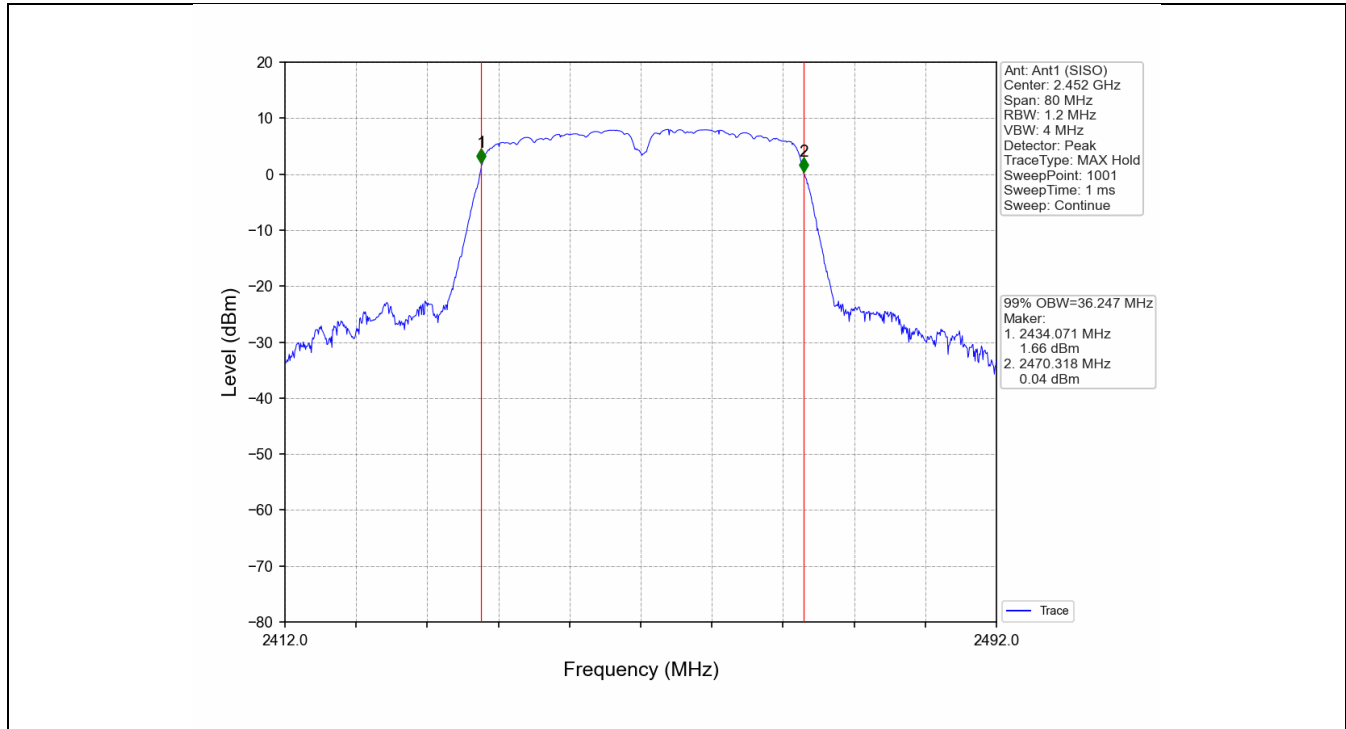


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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.092	>=0.5	Pass
		2437	1	10.097	>=0.5	Pass
		2462	1	10.096	>=0.5	Pass
802.11g	SISO	2412	1	16.595	>=0.5	Pass
		2437	1	16.595	>=0.5	Pass
		2462	1	16.593	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.783	>=0.5	Pass
		2437	1	17.775	>=0.5	Pass
		2462	1	17.782	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.344	>=0.5	Pass
		2437	1	36.361	>=0.5	Pass
		2452	1	36.346	>=0.5	Pass



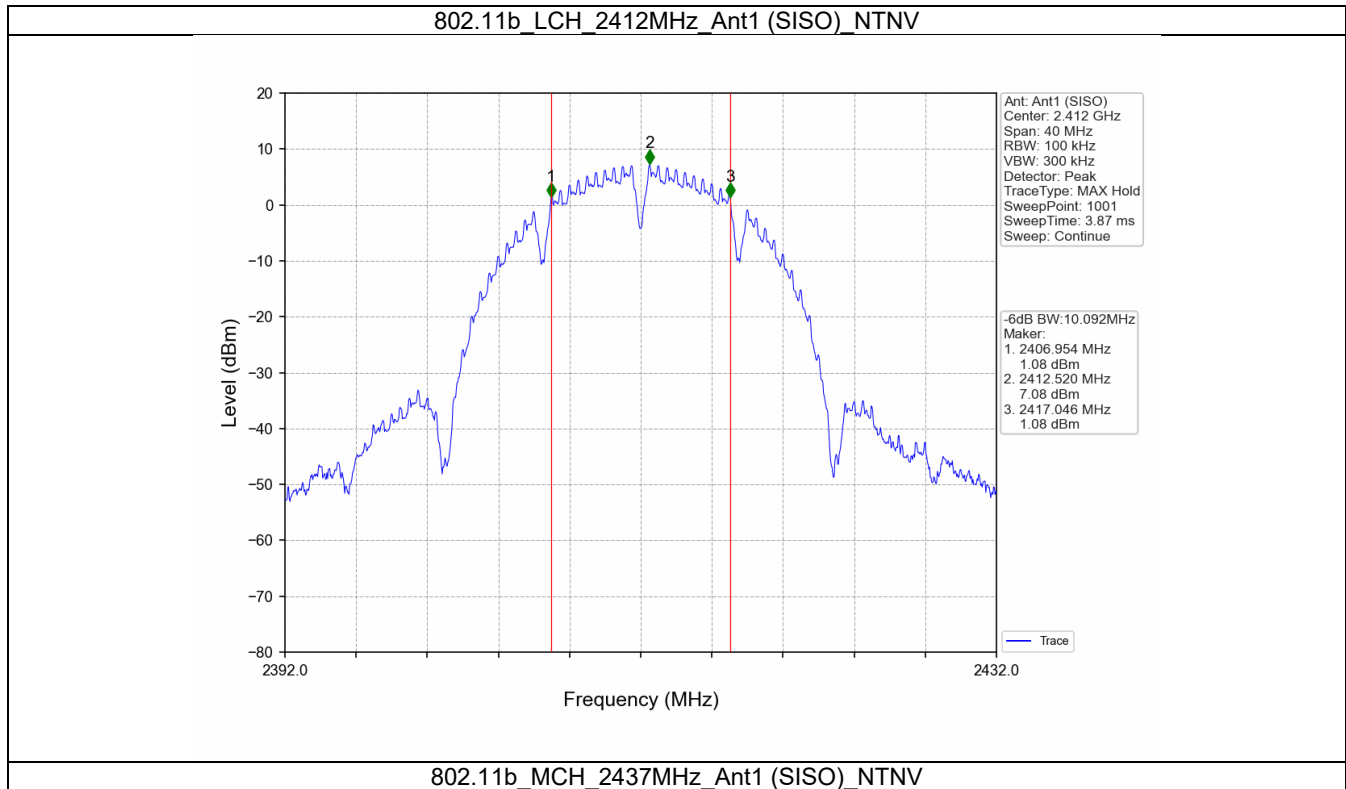
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2.2.2 Test Graph



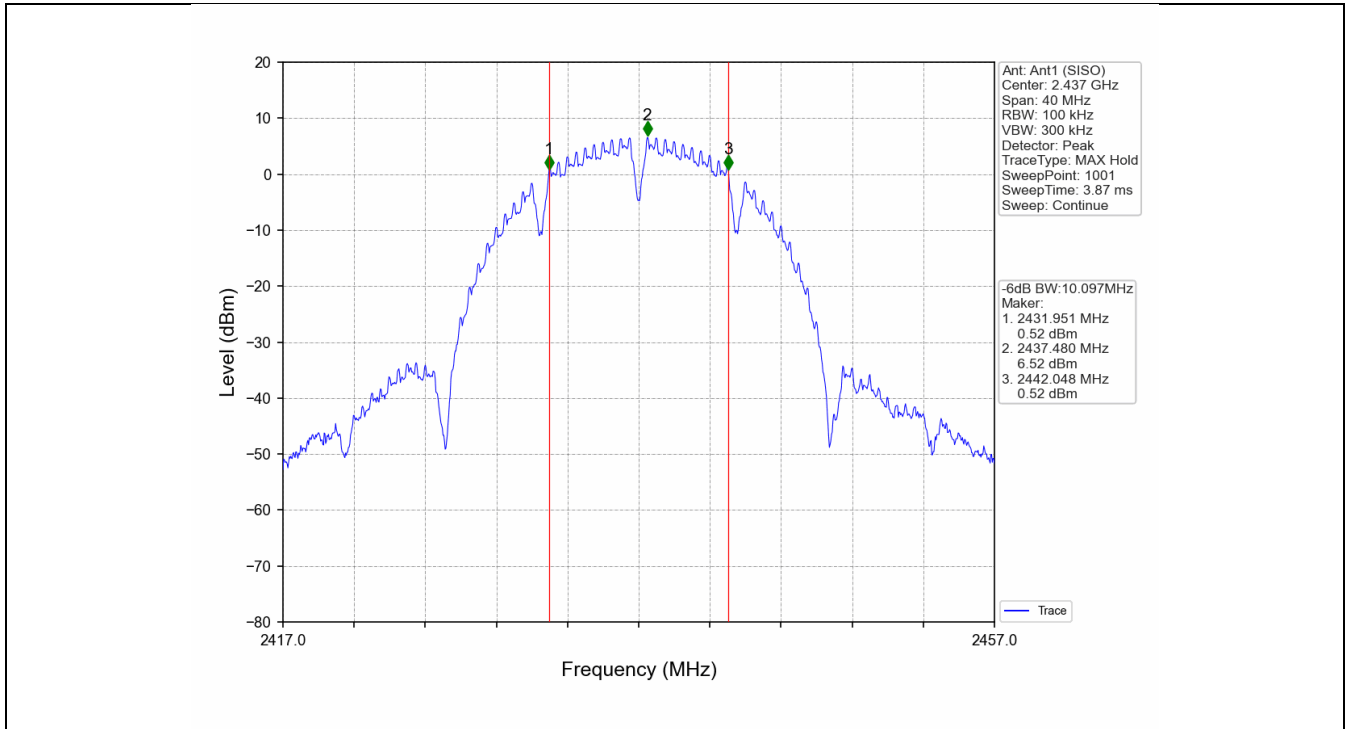
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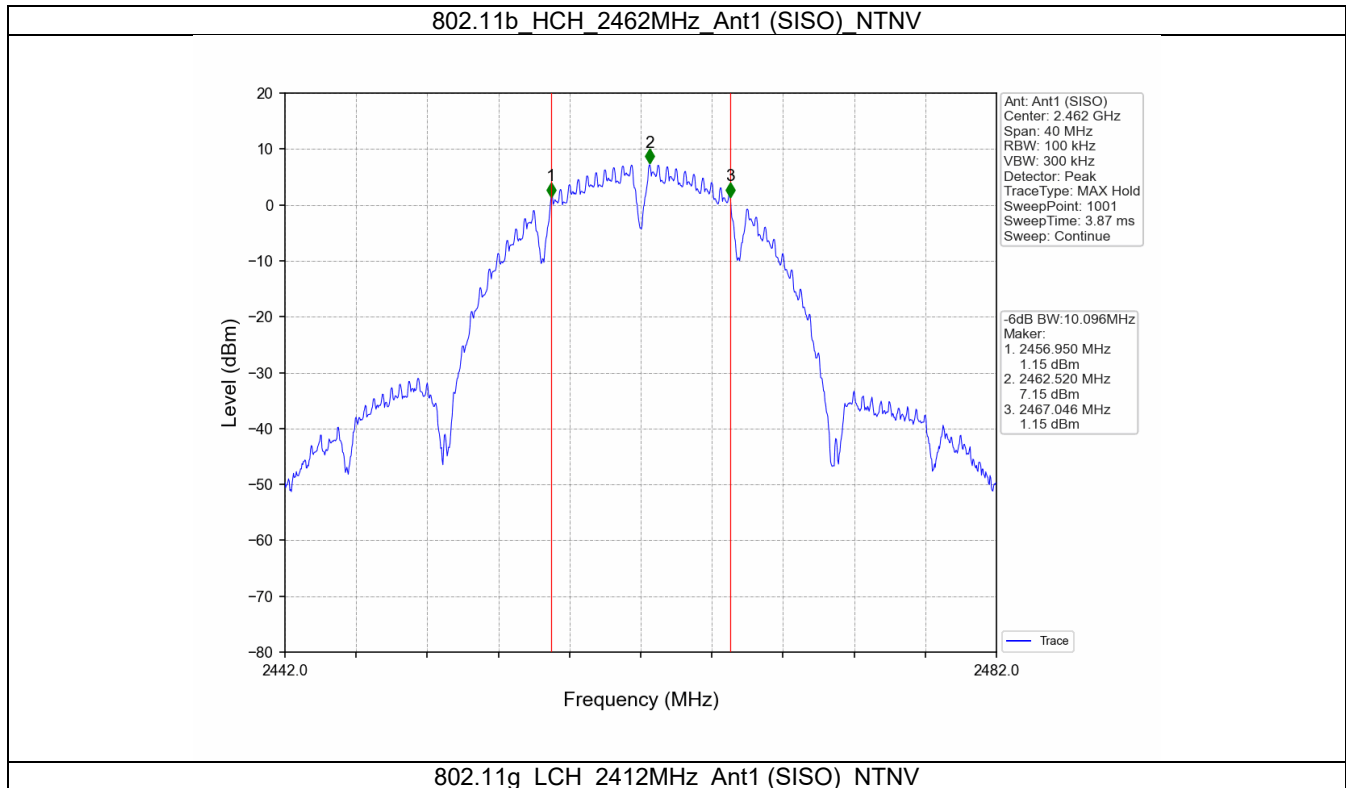


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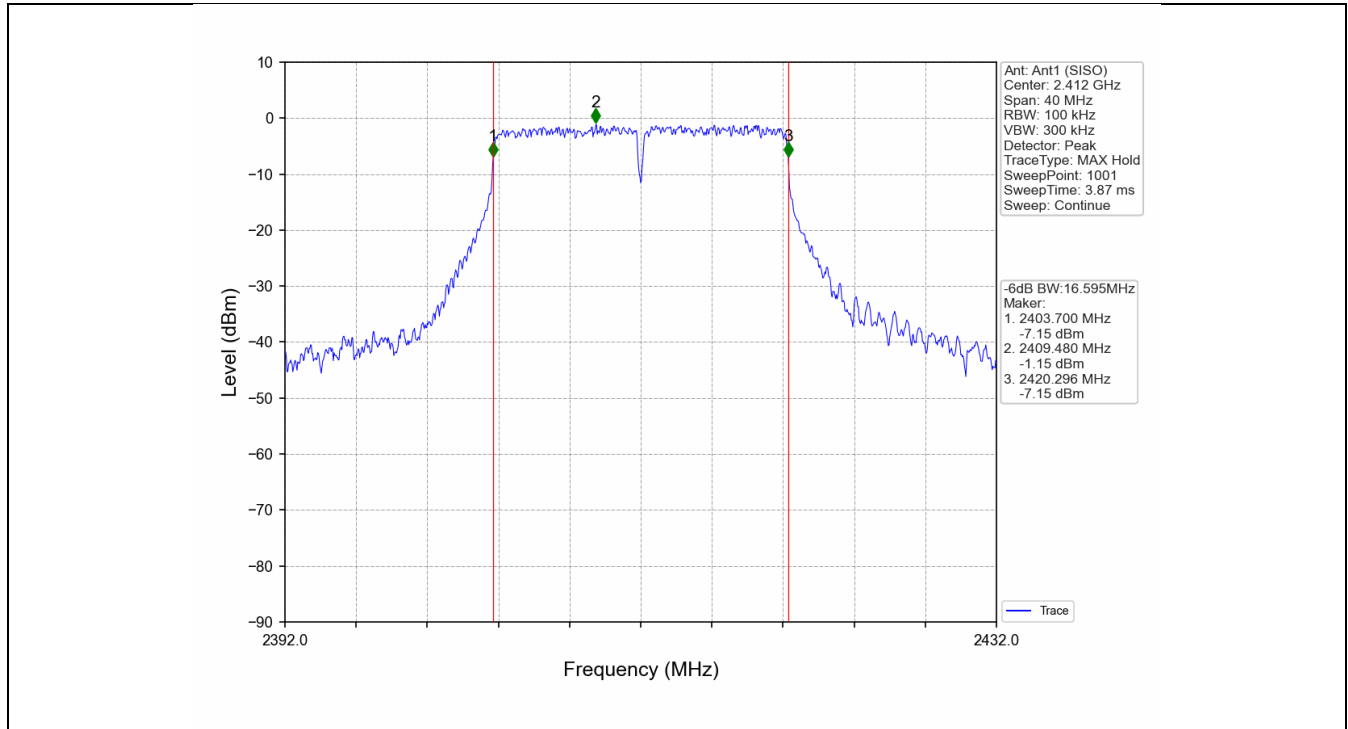


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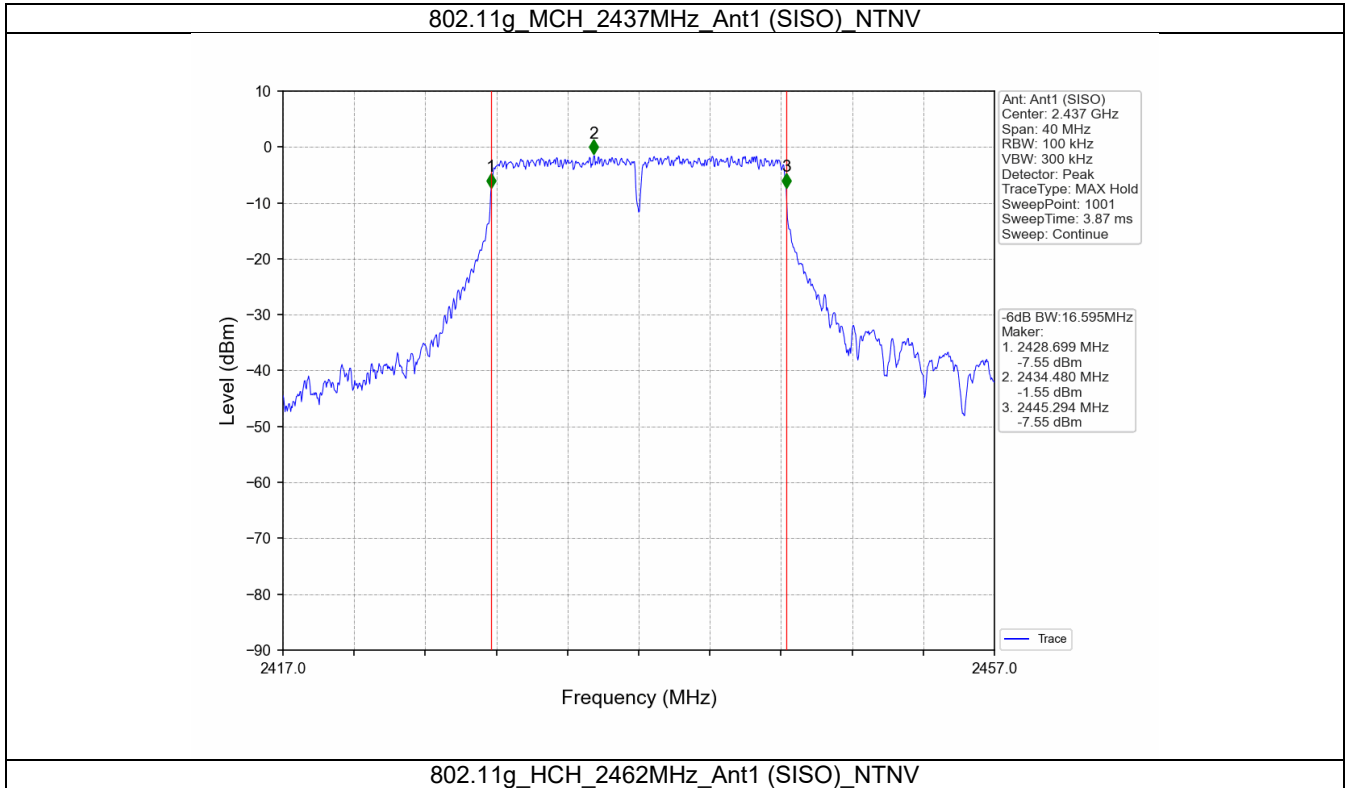


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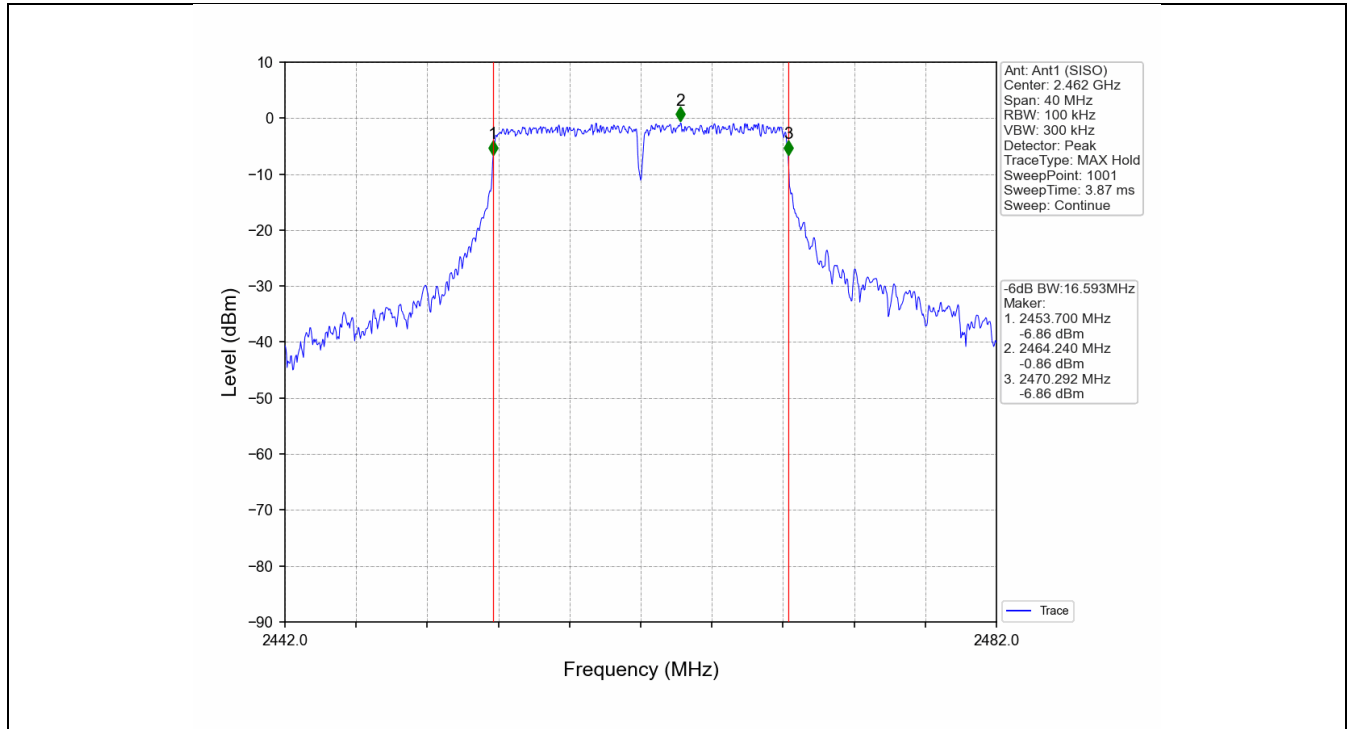
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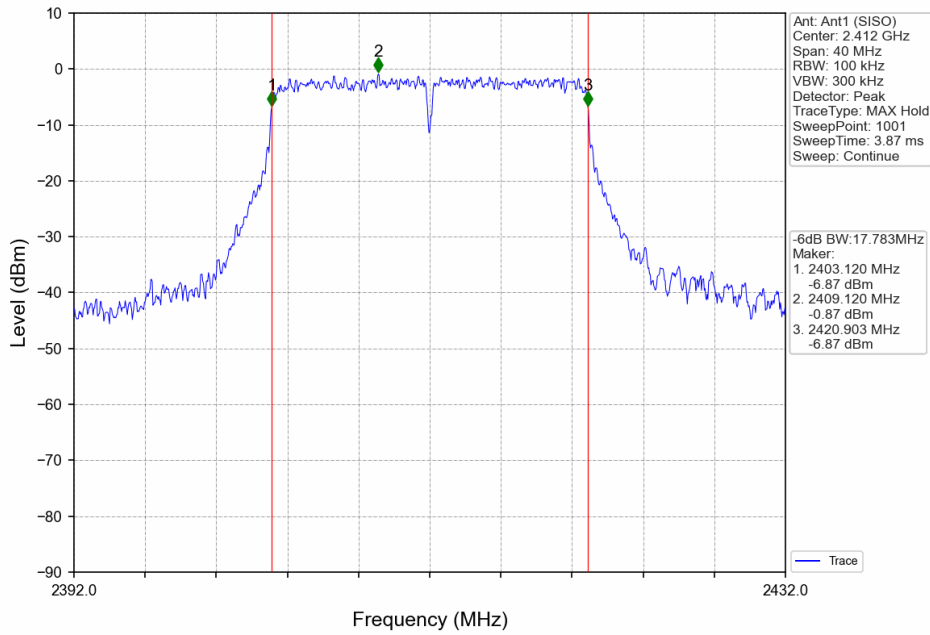
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

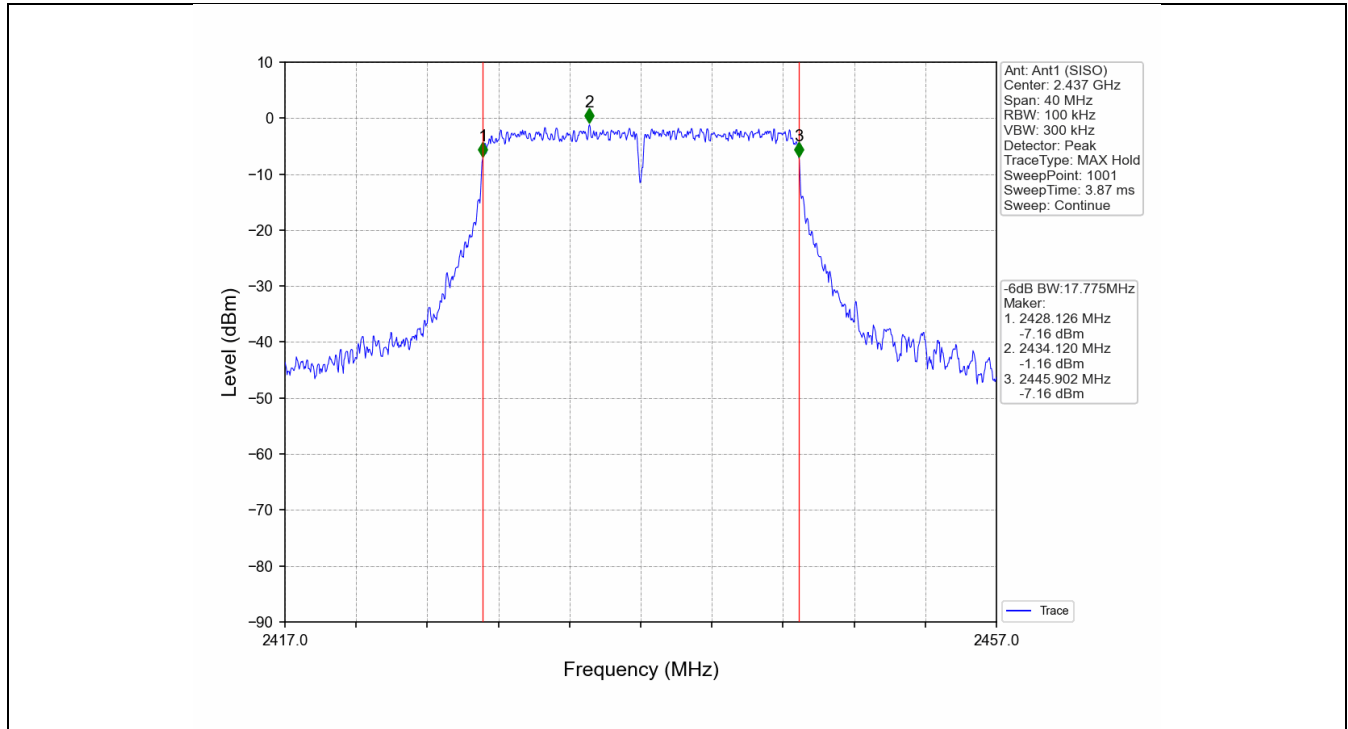


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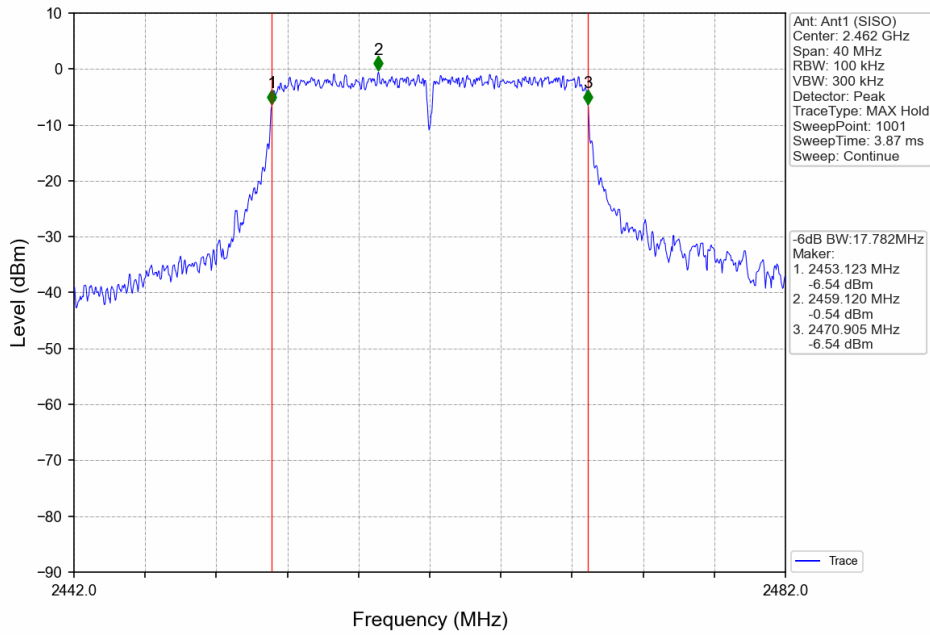
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

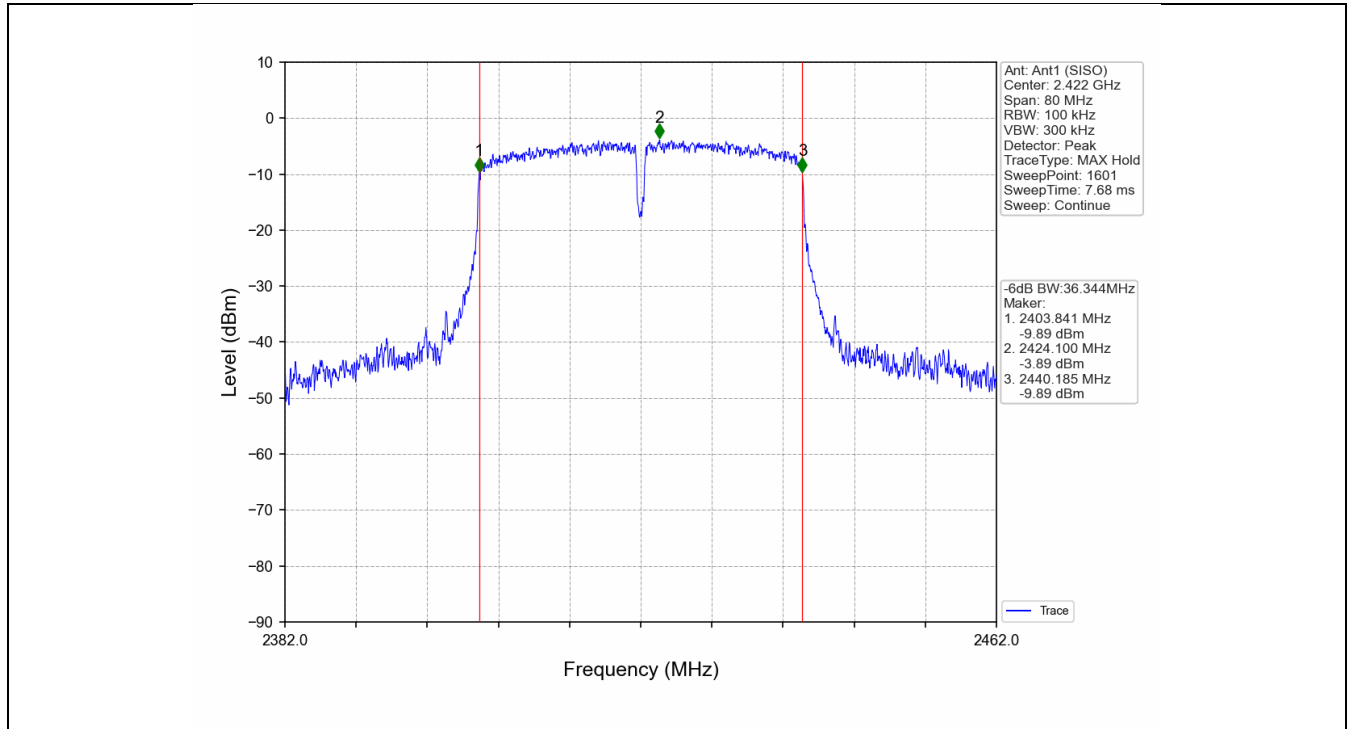


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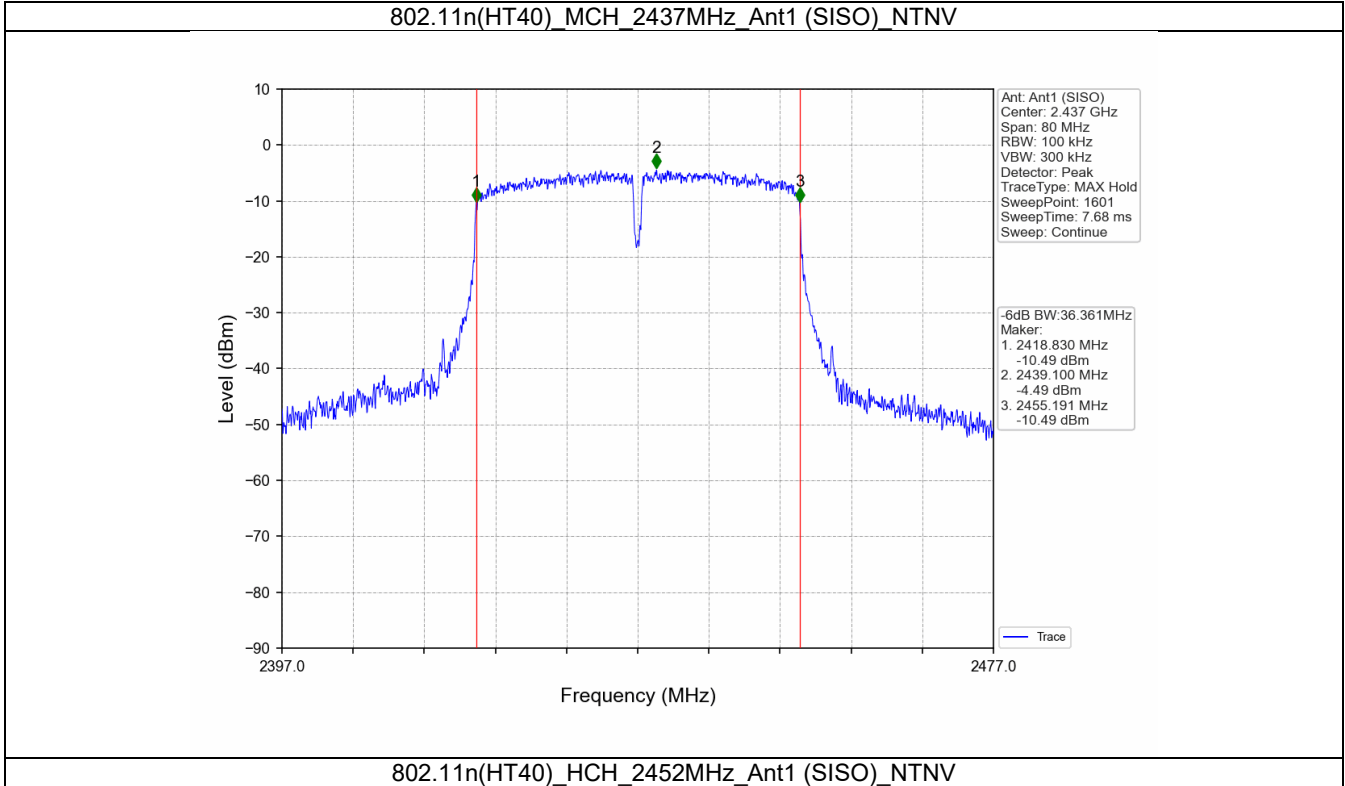


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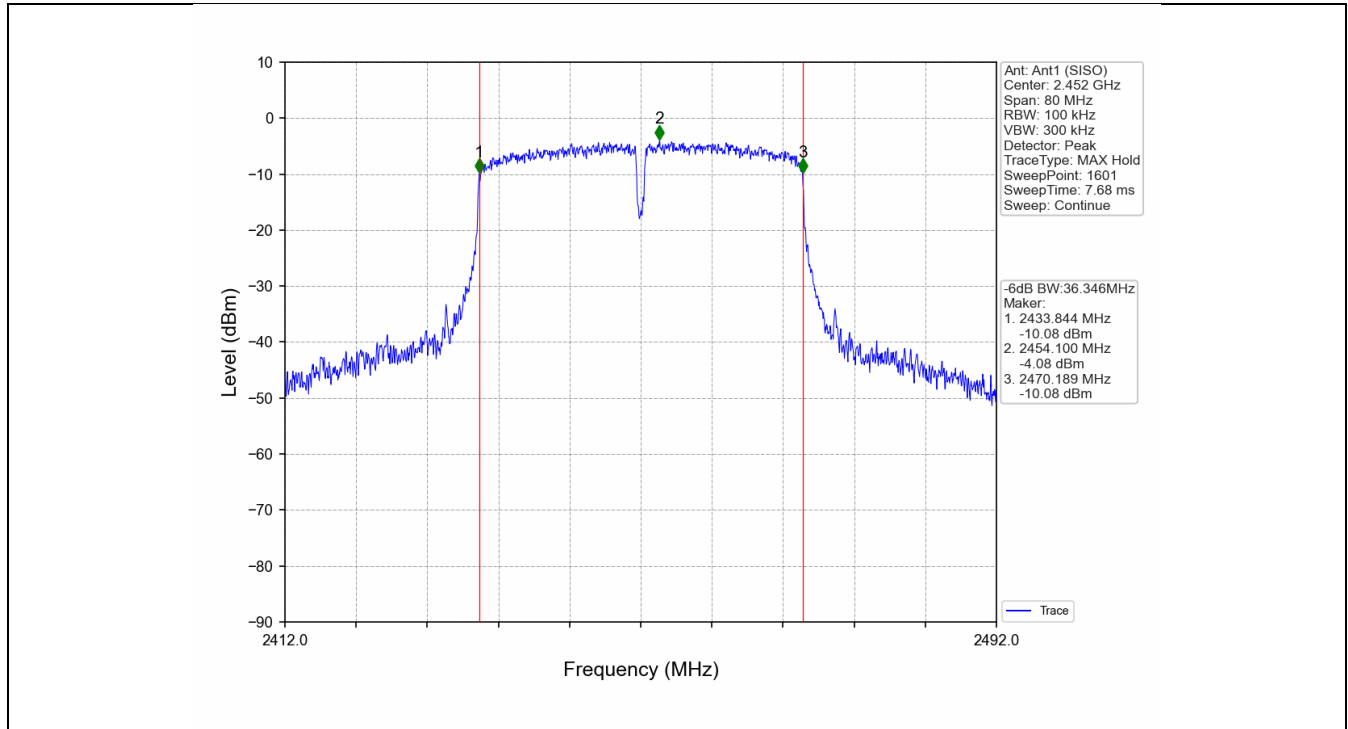


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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	19.43	<=30	Pass
		2437	18.91	<=30	Pass
		2462	19.53	<=30	Pass
802.11g	SISO	2412	20.85	<=30	Pass
		2437	20.46	<=30	Pass
		2462	21.10	<=30	Pass
802.11n (HT20)	SISO	2412	21.03	<=30	Pass
		2437	20.62	<=30	Pass
		2462	21.23	<=30	Pass
802.11n (HT40)	SISO	2422	20.87	<=30	Pass
		2437	20.27	<=30	Pass
		2452	20.61	<=30	Pass

Note1: Antenna Gain: Ant1: -2.10dBi;

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	
802.11b	SISO	2412	-12.85	<=8	Pass
		2437	-13.38	<=8	Pass
		2462	-12.74	<=8	Pass
802.11g	SISO	2412	-14.98	<=8	Pass
		2437	-15.44	<=8	Pass
		2462	-14.85	<=8	Pass
802.11n (HT20)	SISO	2412	-14.86	<=8	Pass
		2437	-15.30	<=8	Pass
		2462	-14.69	<=8	Pass
802.11n (HT40)	SISO	2422	-14.52	<=8	Pass
		2437	-15.67	<=8	Pass
		2452	-15.20	<=8	Pass

Note1: Antenna Gain: Ant1: -2.10dBi;



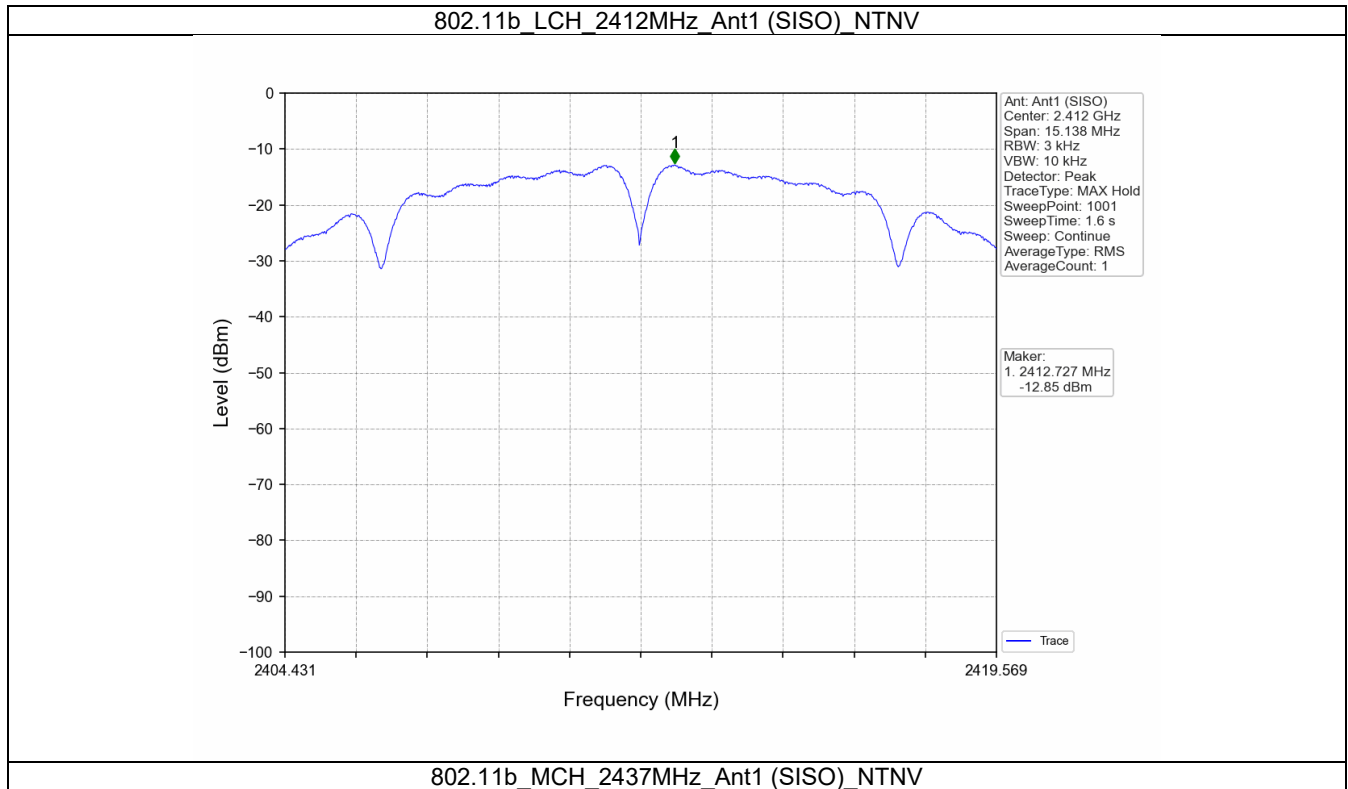
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4.1.2 Test Graph

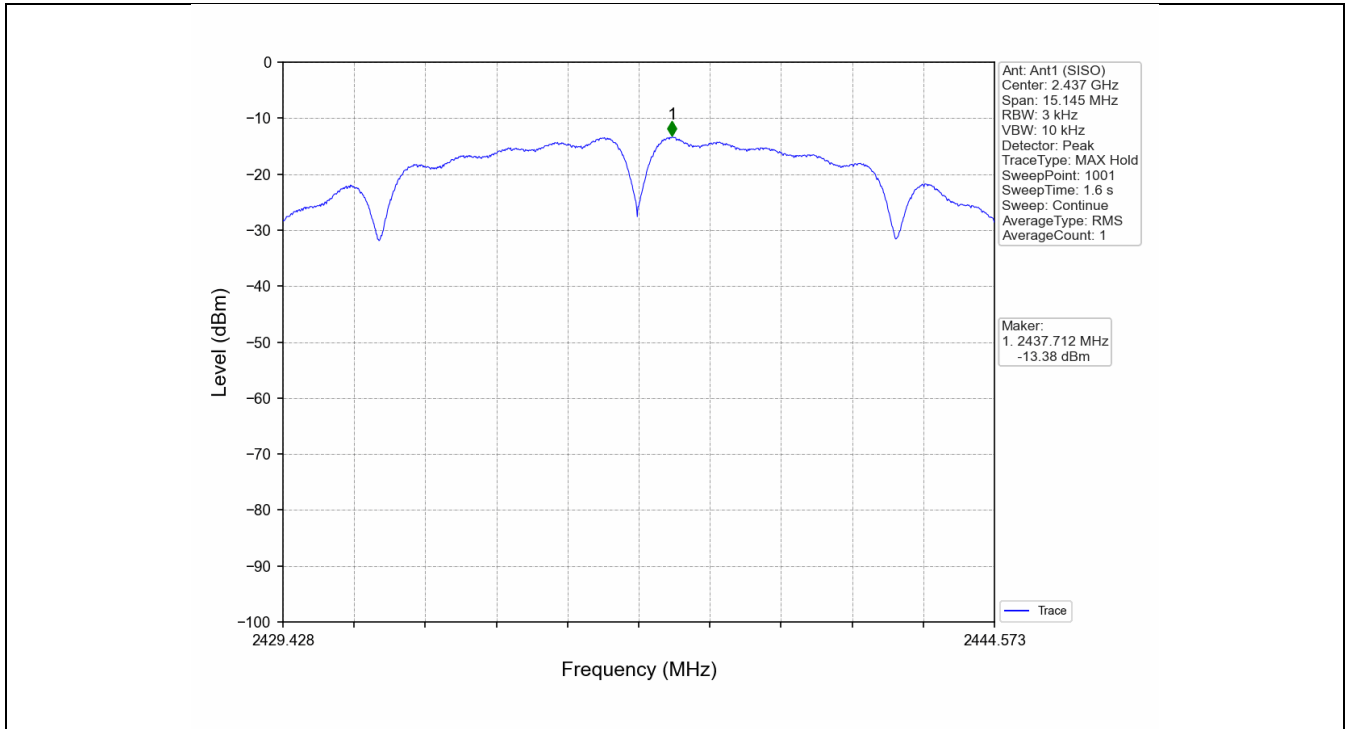


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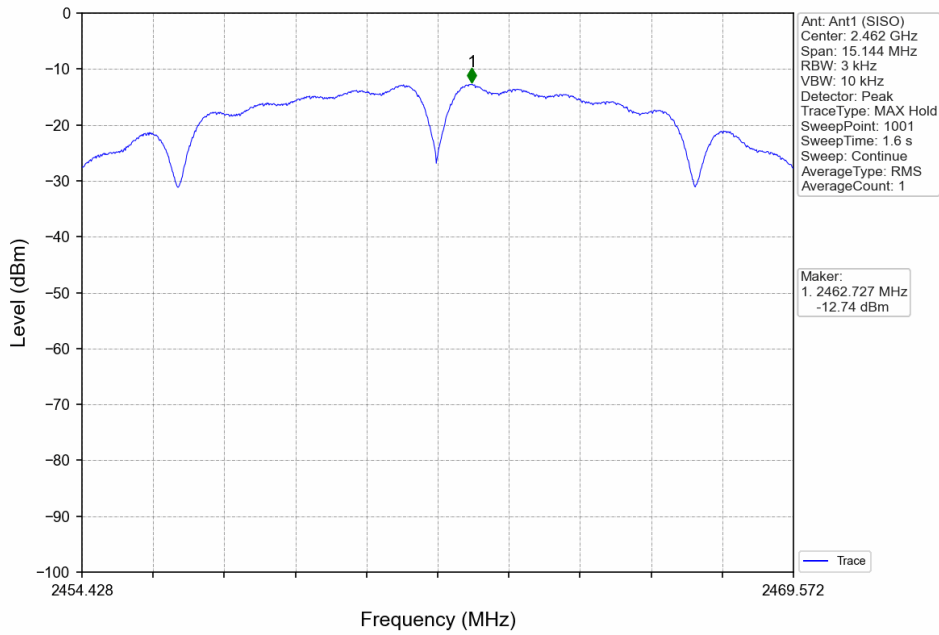
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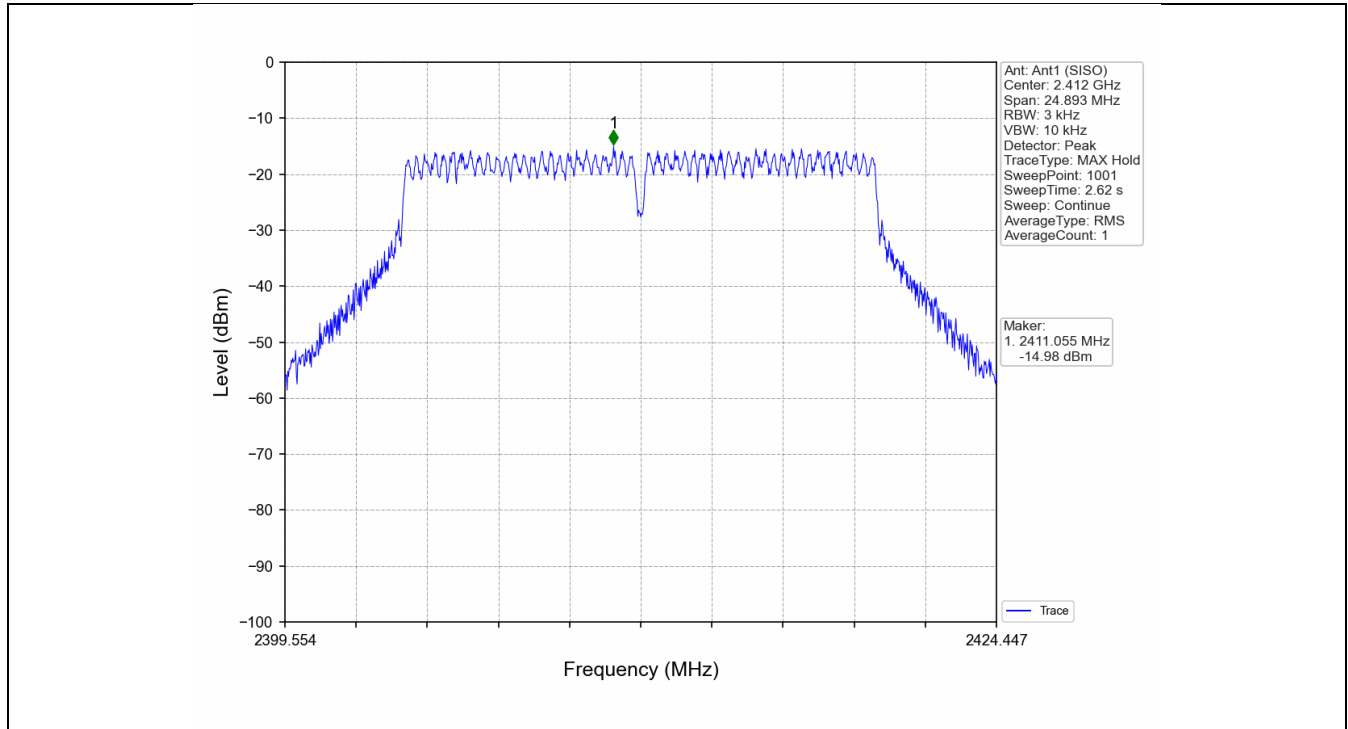


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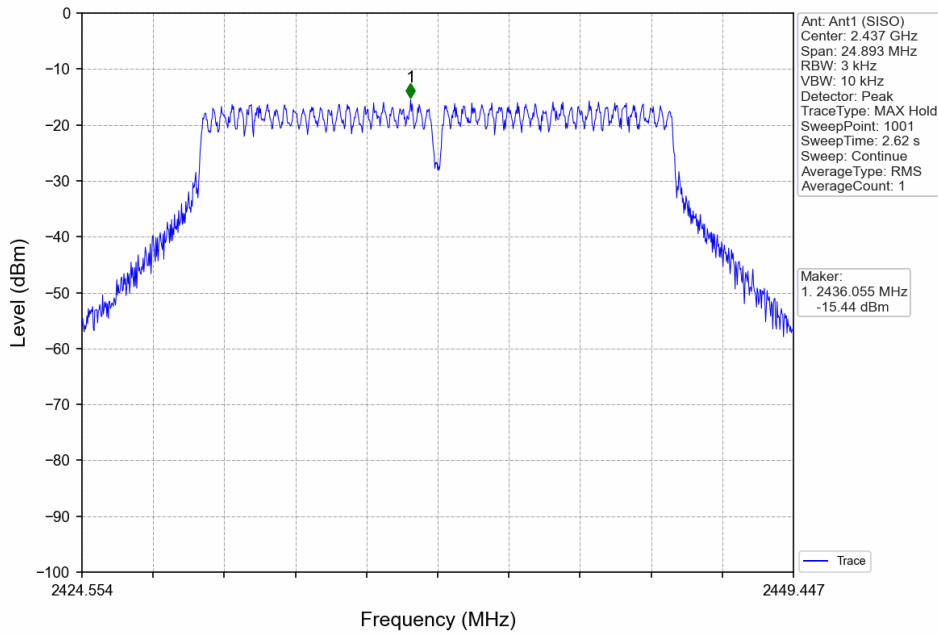
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

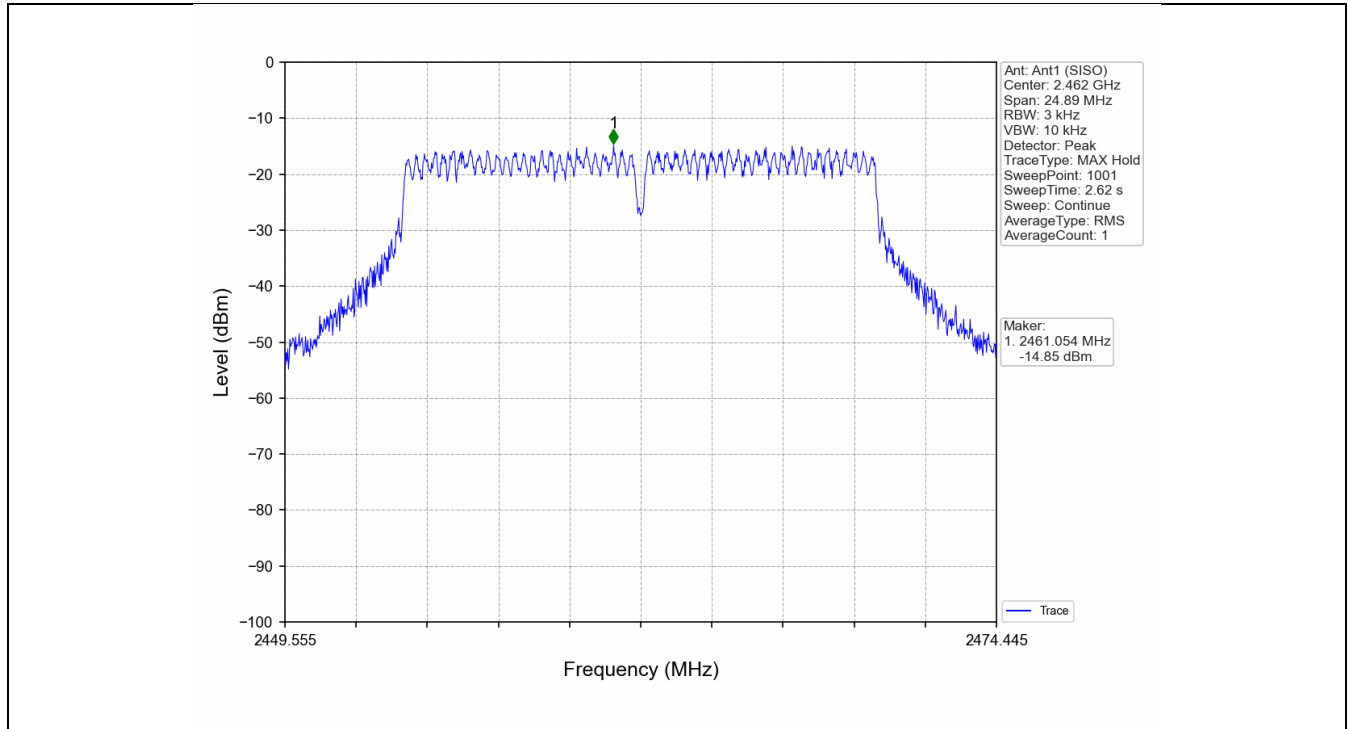


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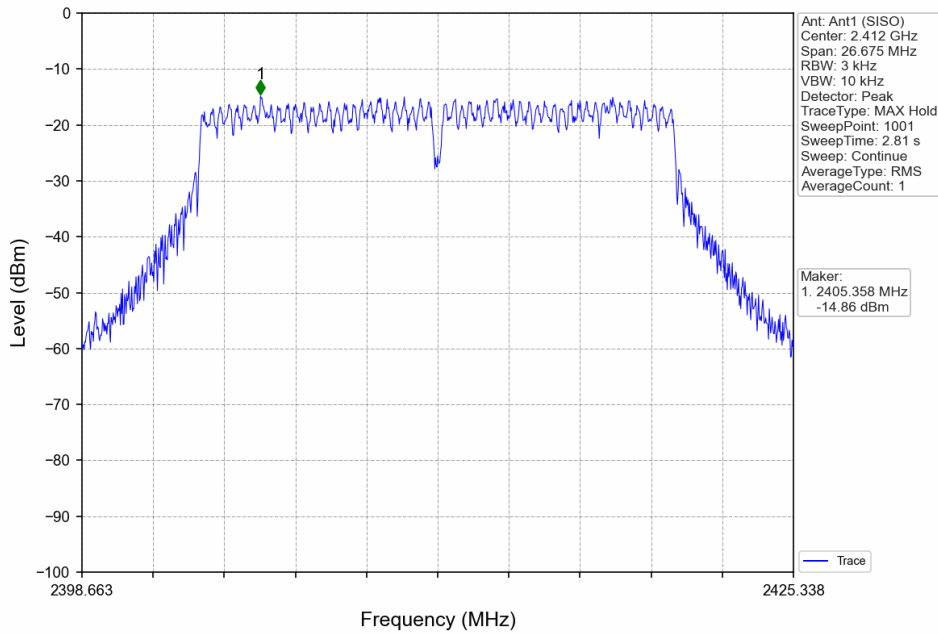
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

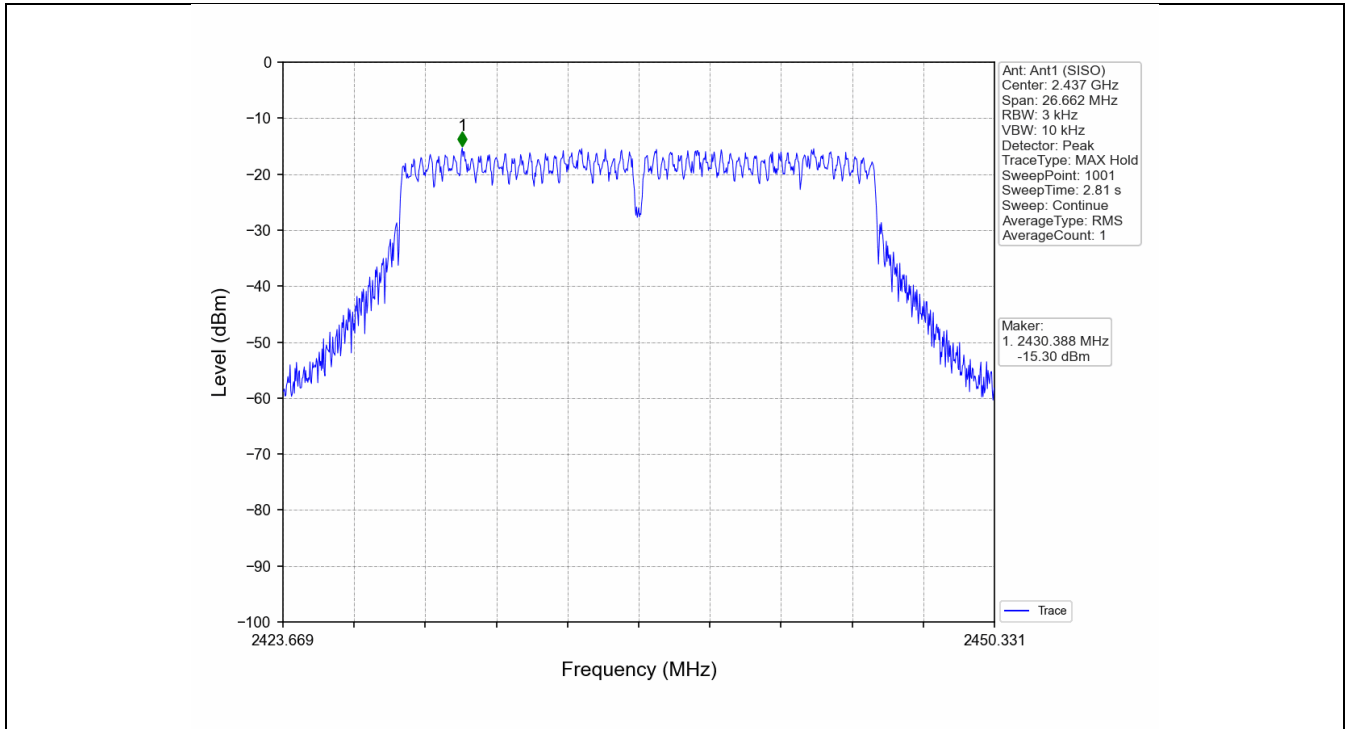


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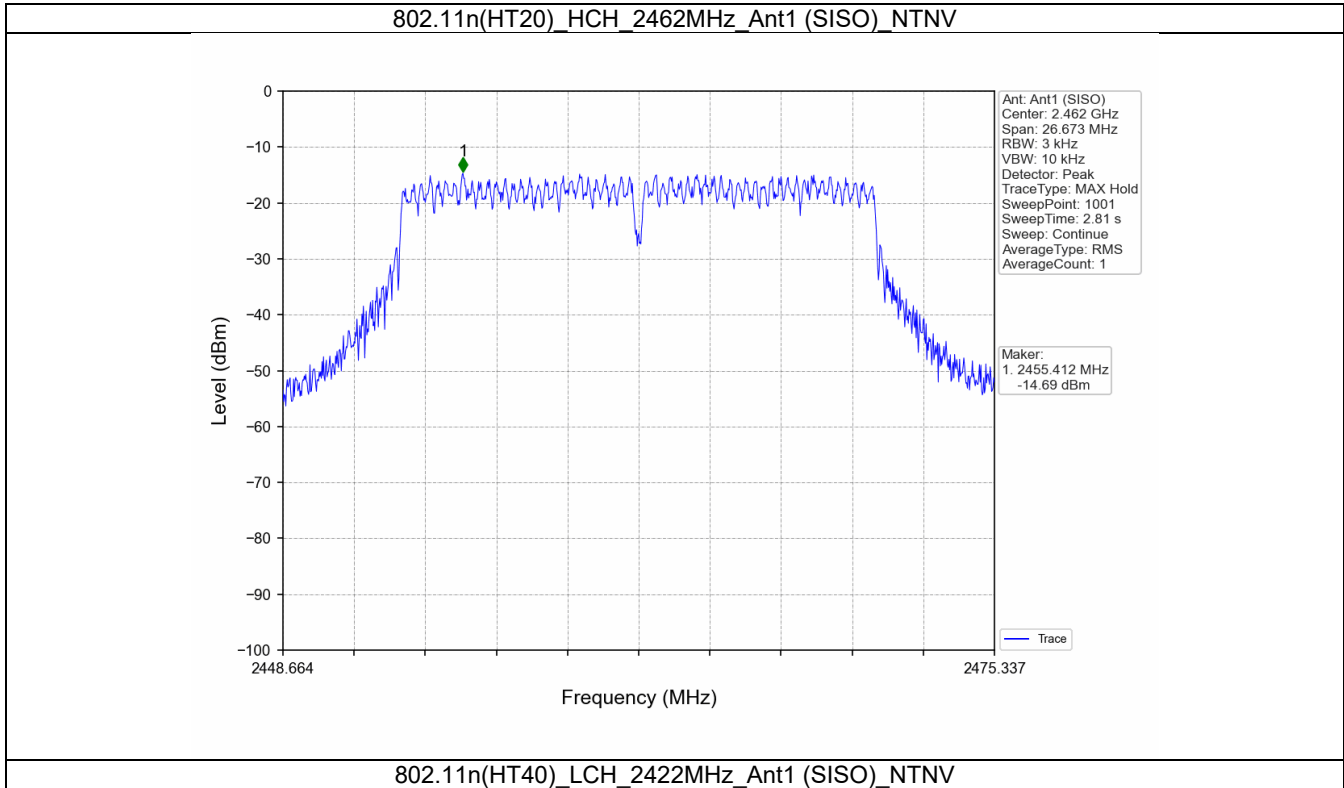
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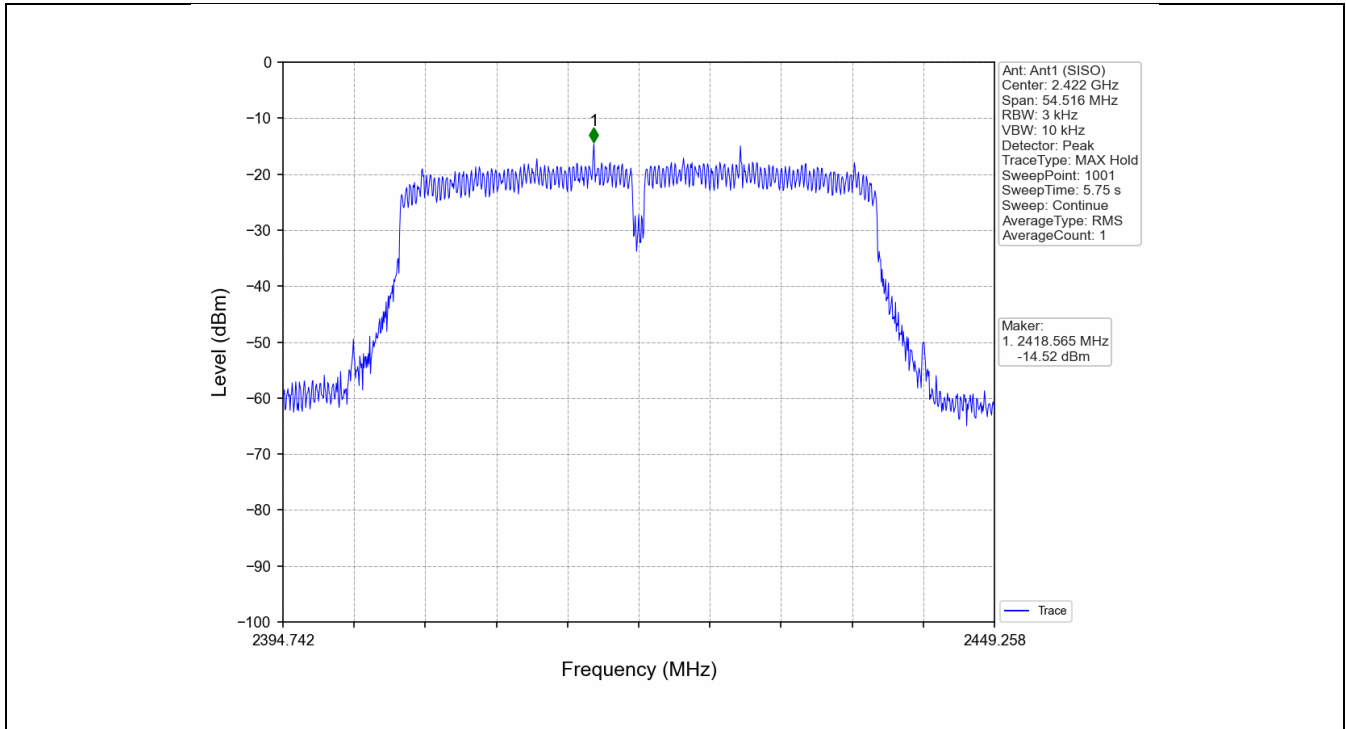


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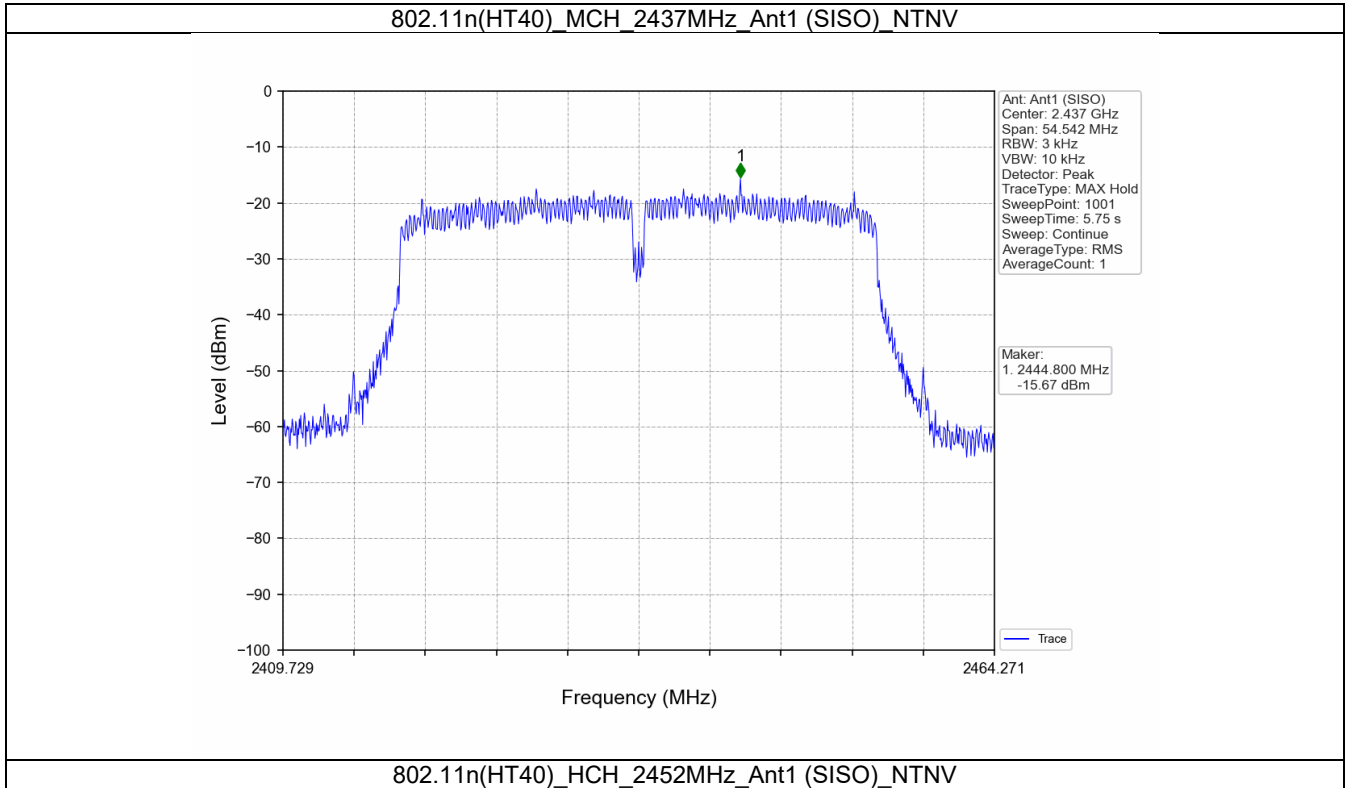


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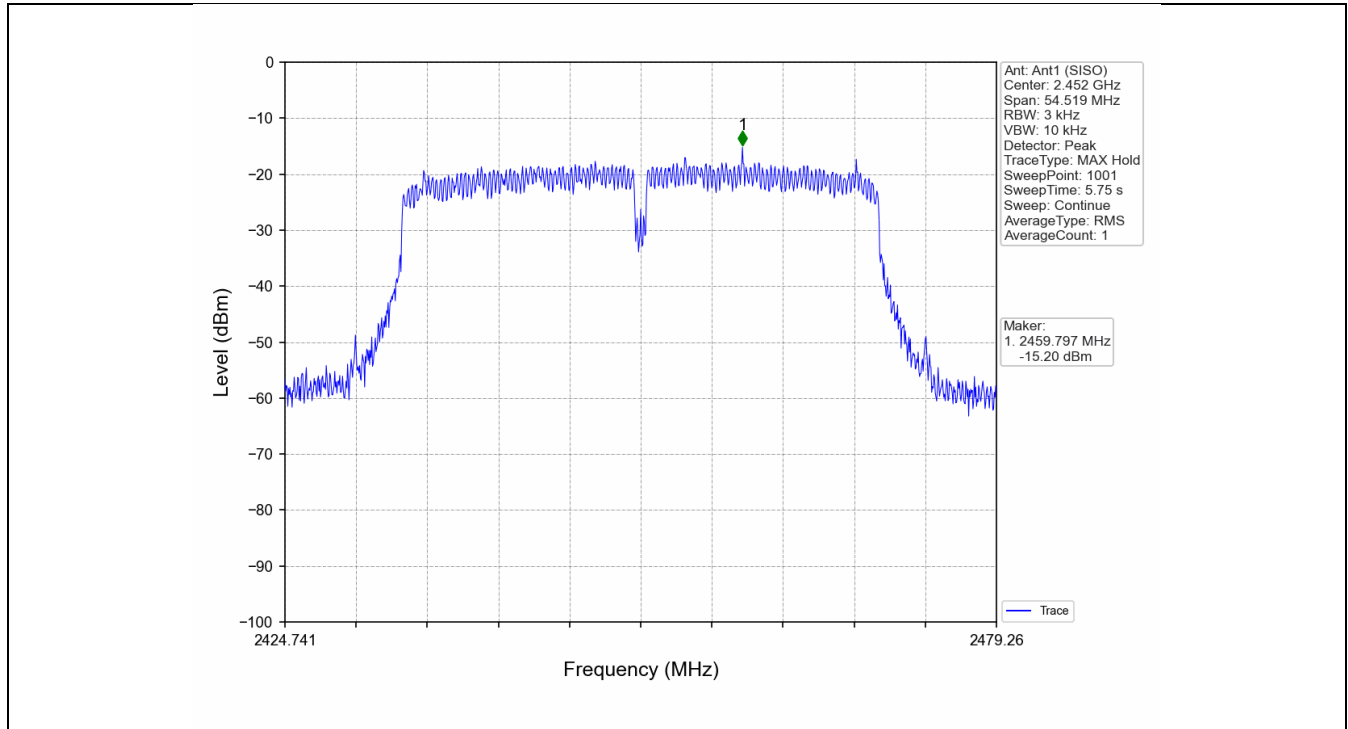


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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	6.88
		2437	1	6.31
		2462	1	6.95
802.11g	SISO	2412	1	-1.18
		2437	1	-1.54
		2462	1	-0.86
802.11n (HT20)	SISO	2412	1	-0.93
		2437	1	-1.23
		2462	1	-0.77
802.11n (HT40)	SISO	2422	1	-4.10
		2437	1	-4.58
		2452	1	-4.15

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.

5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

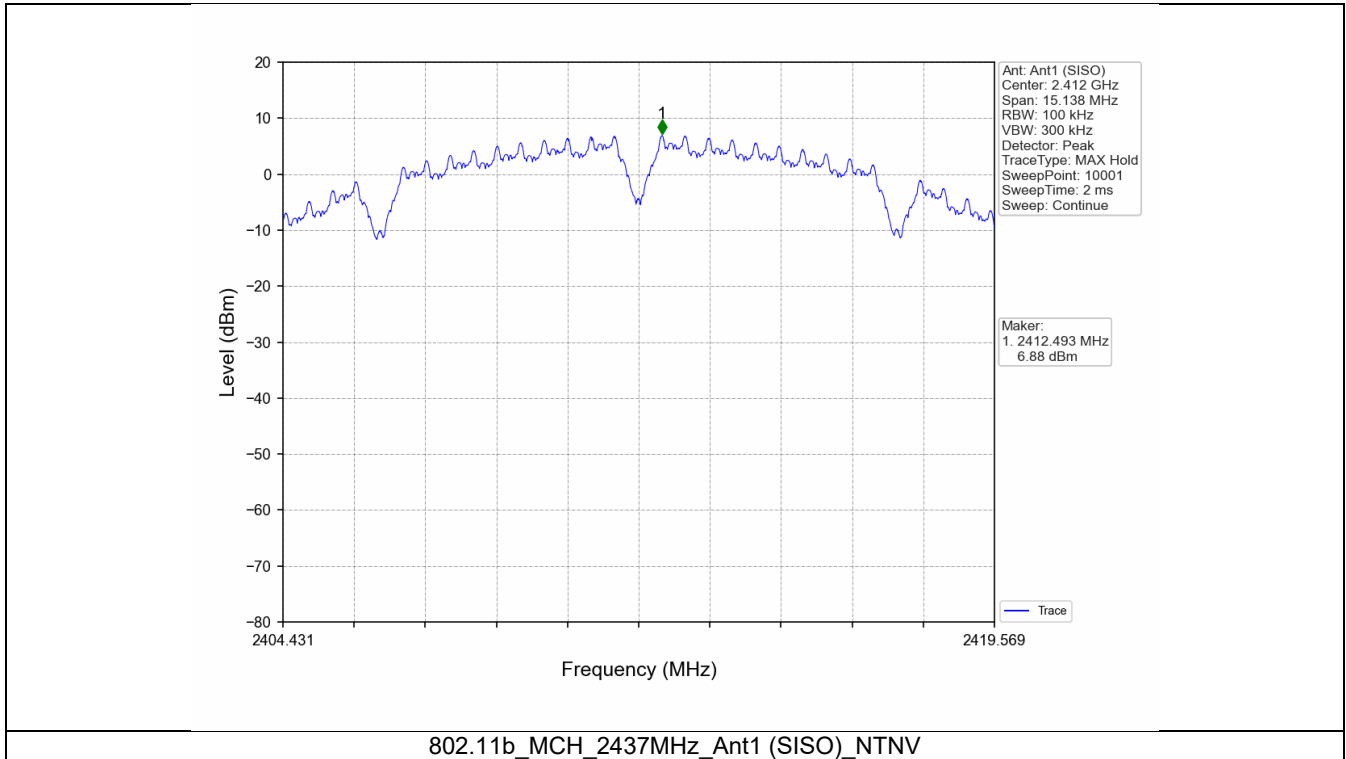


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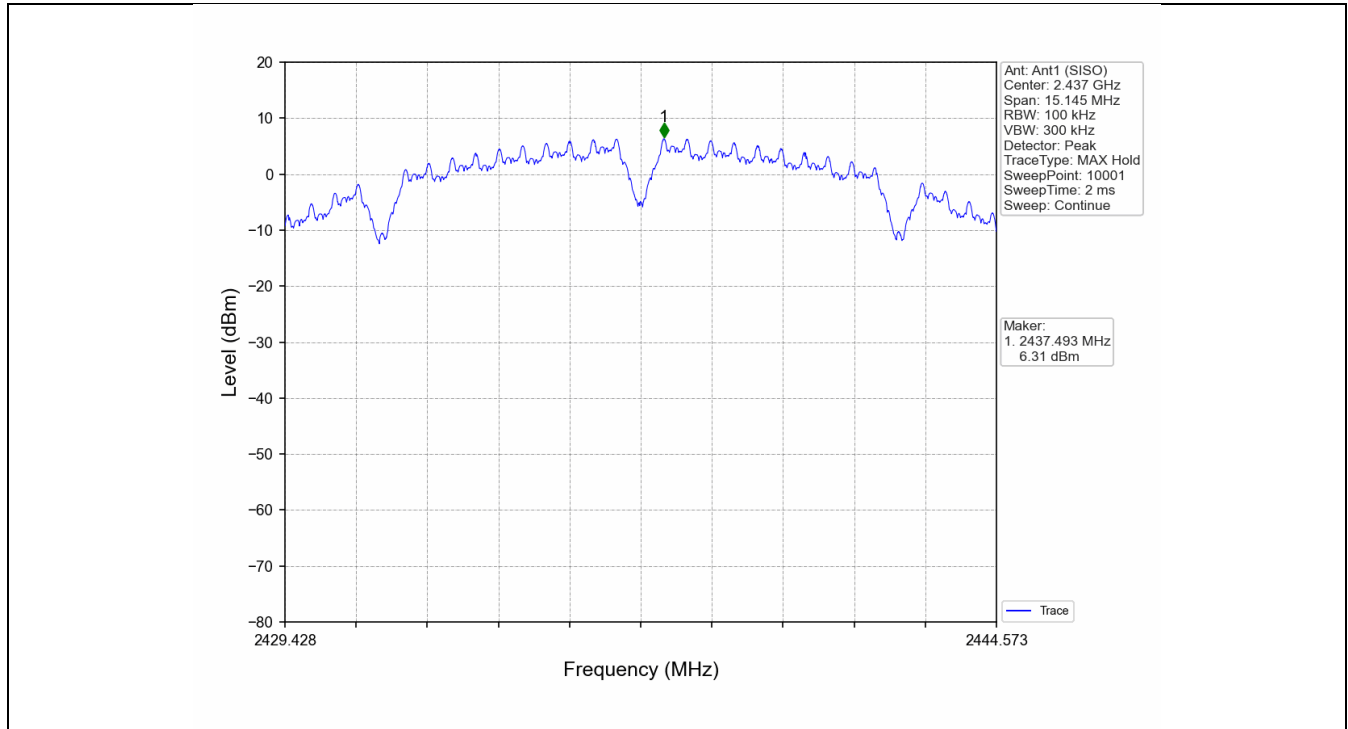


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802.11b HCH 2462MHz Ant1 (SISO) NTNv

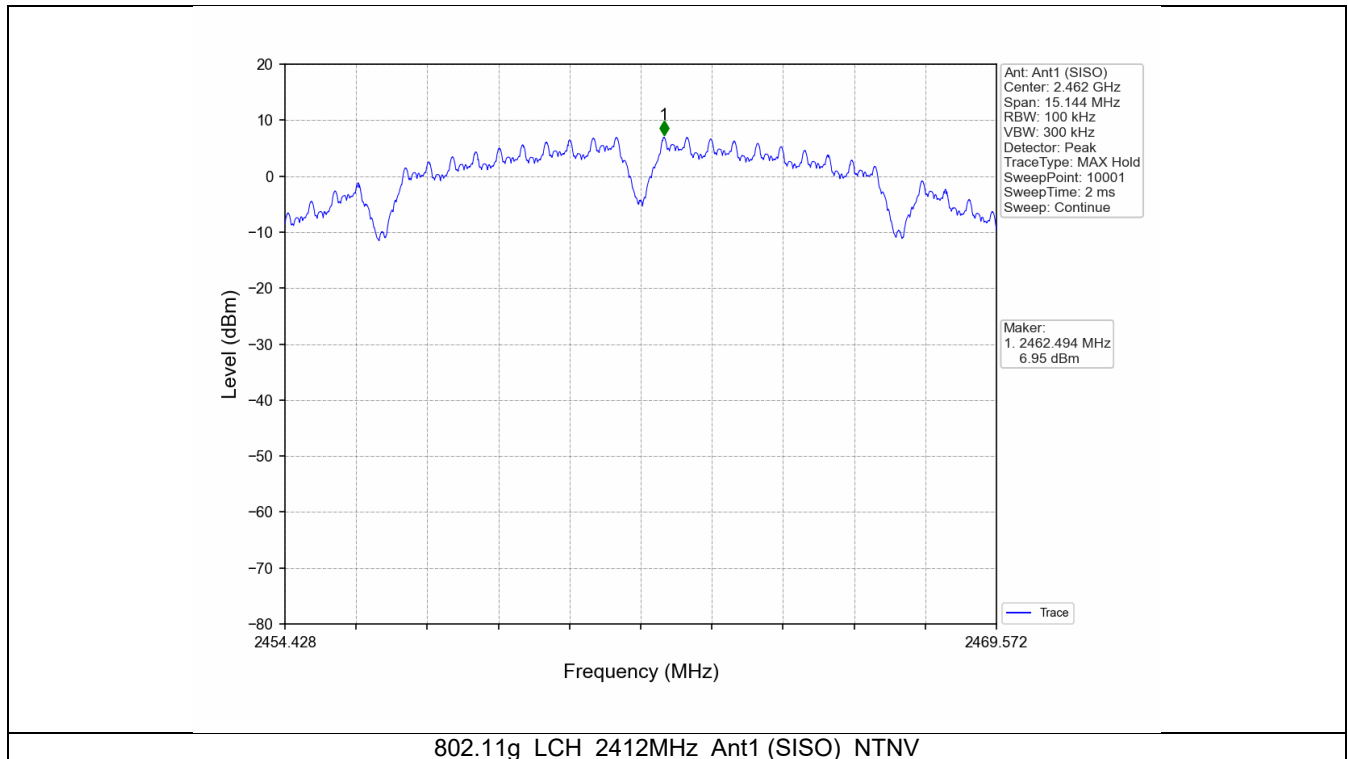


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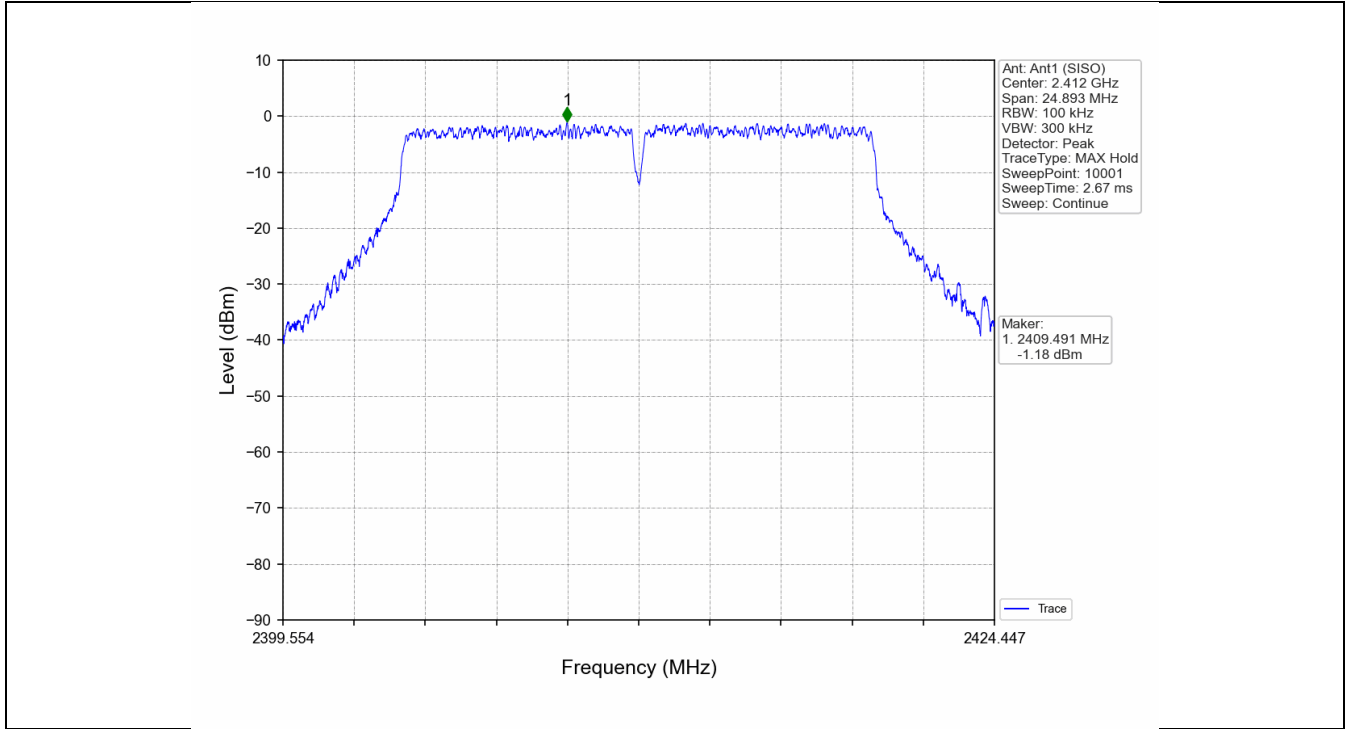
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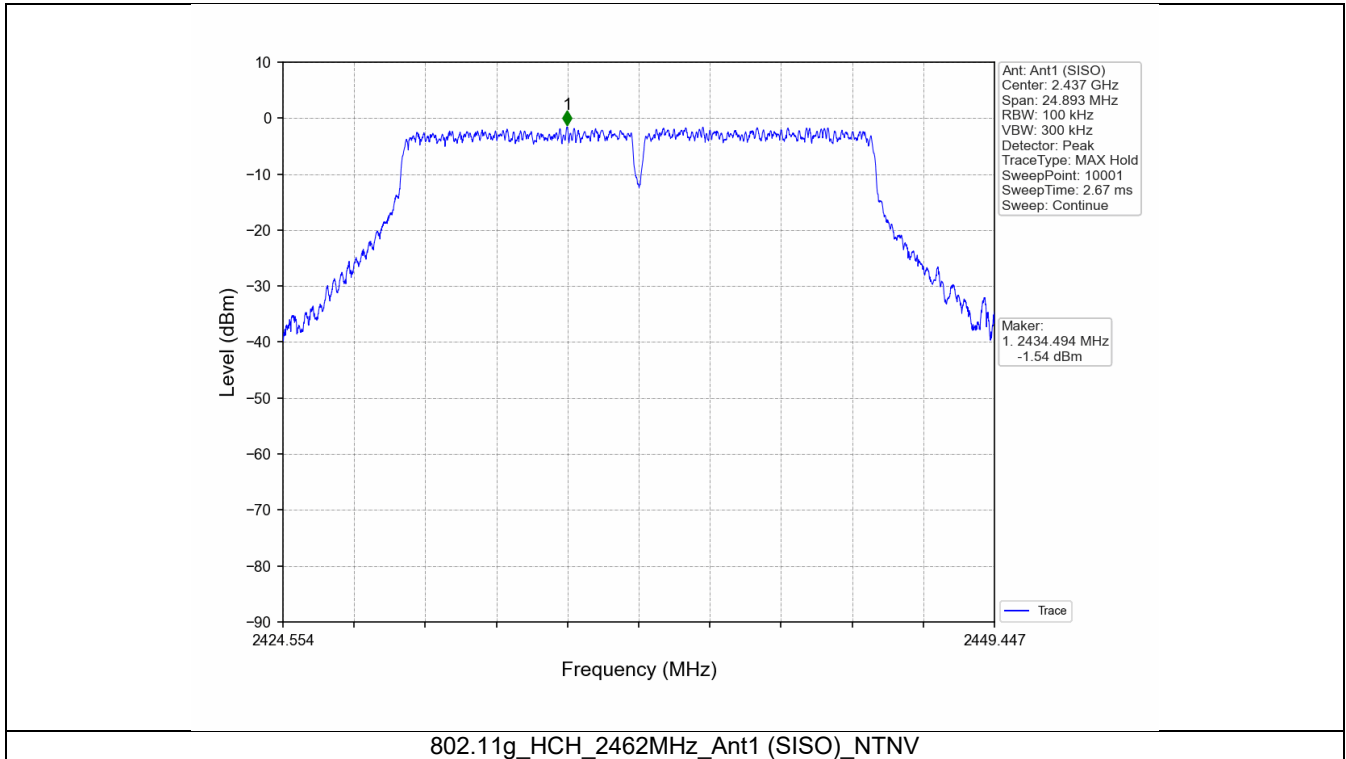


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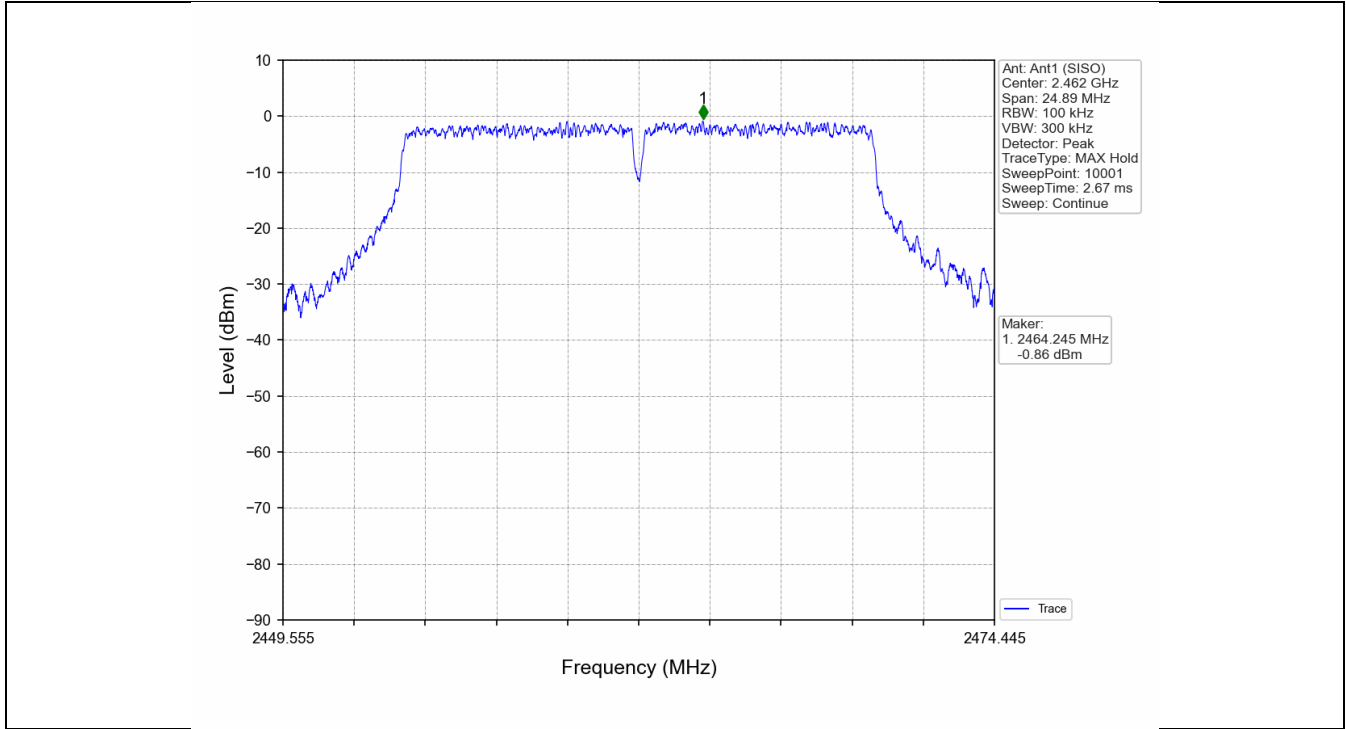


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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV

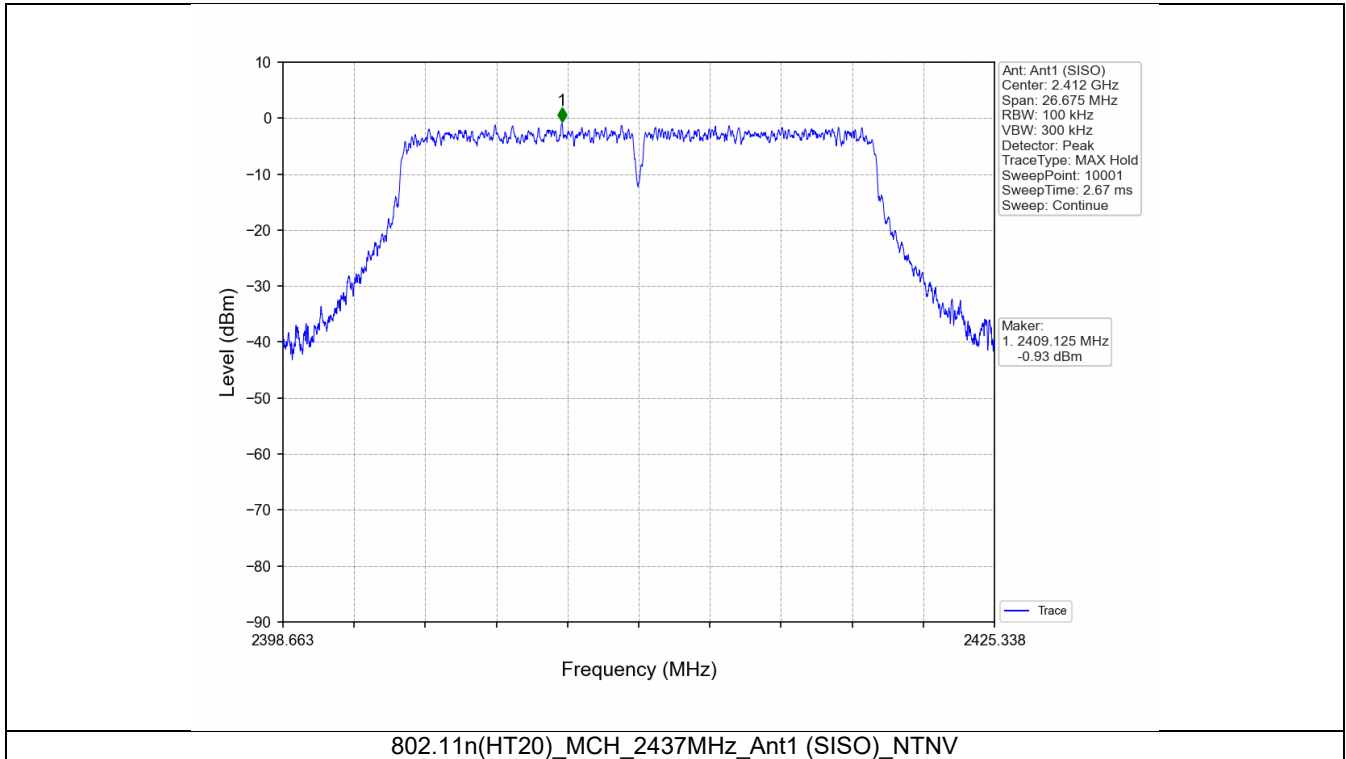


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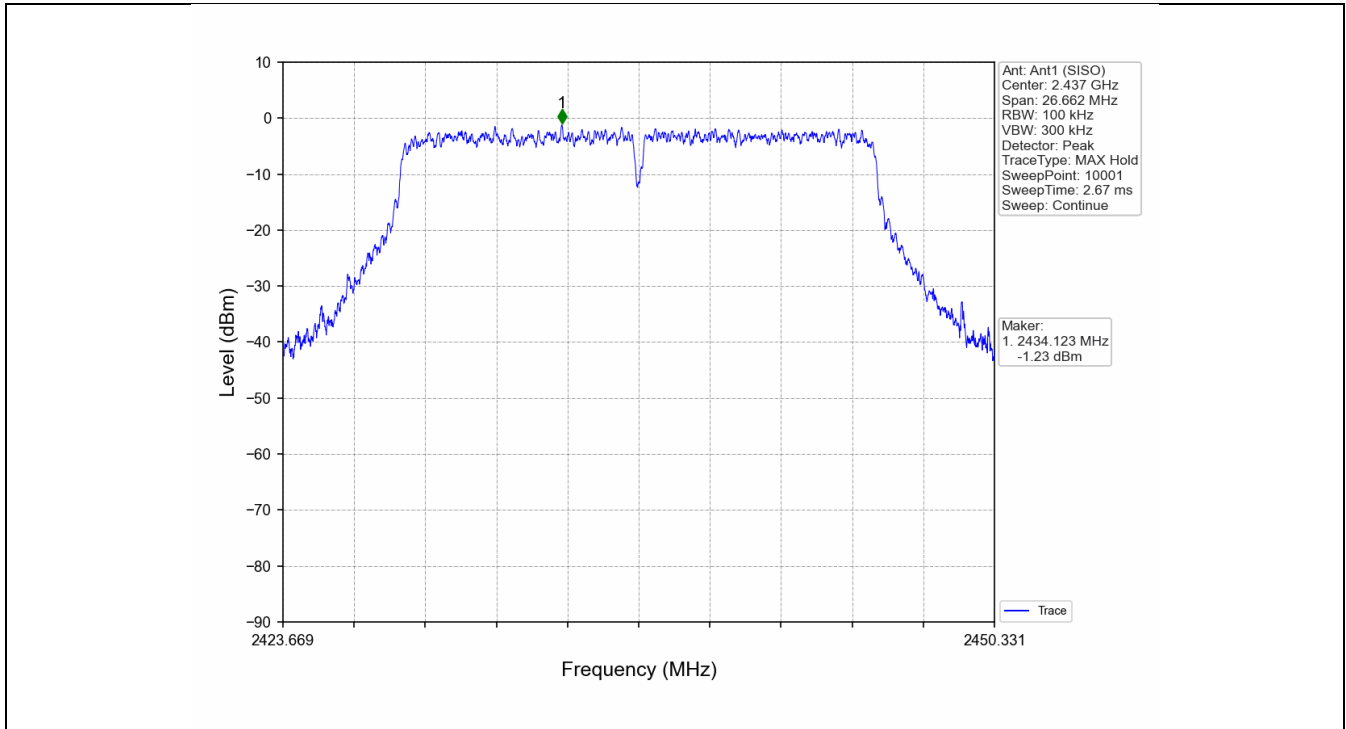
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV

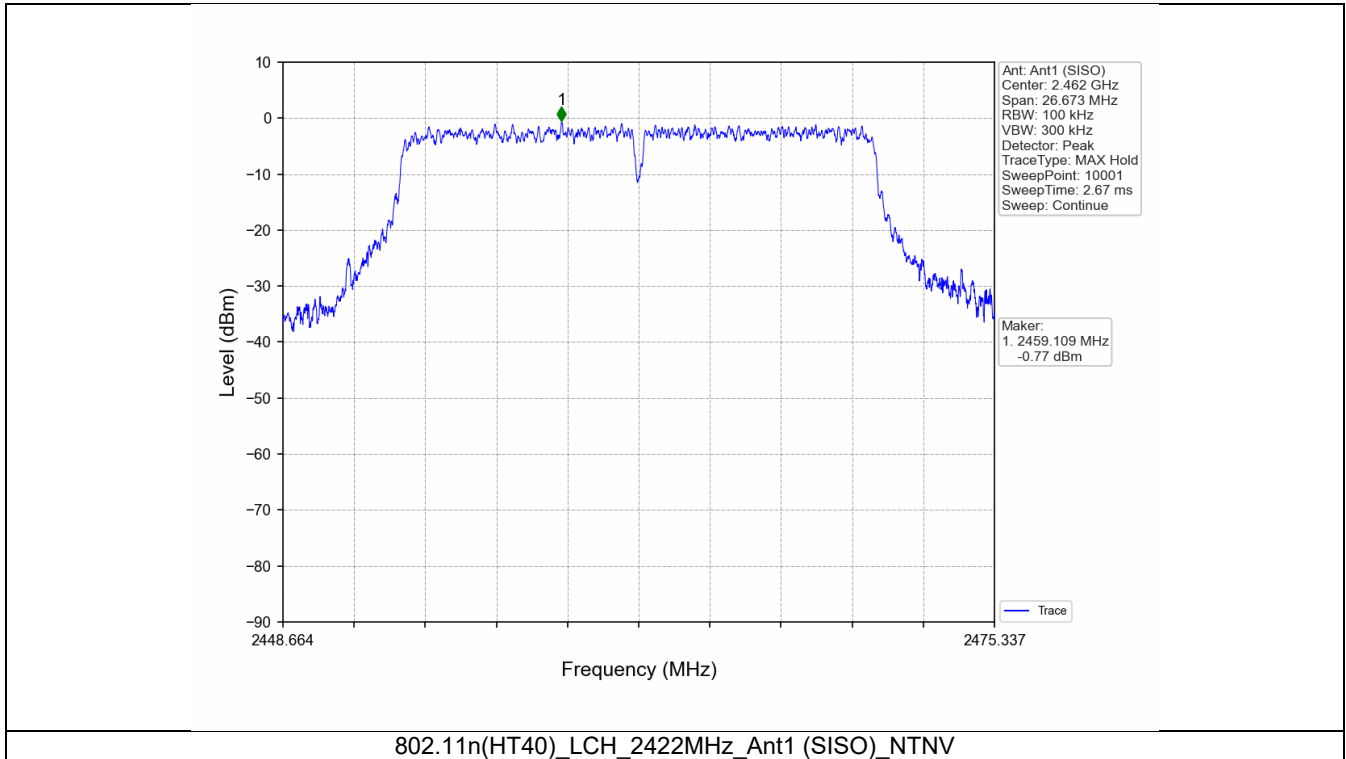


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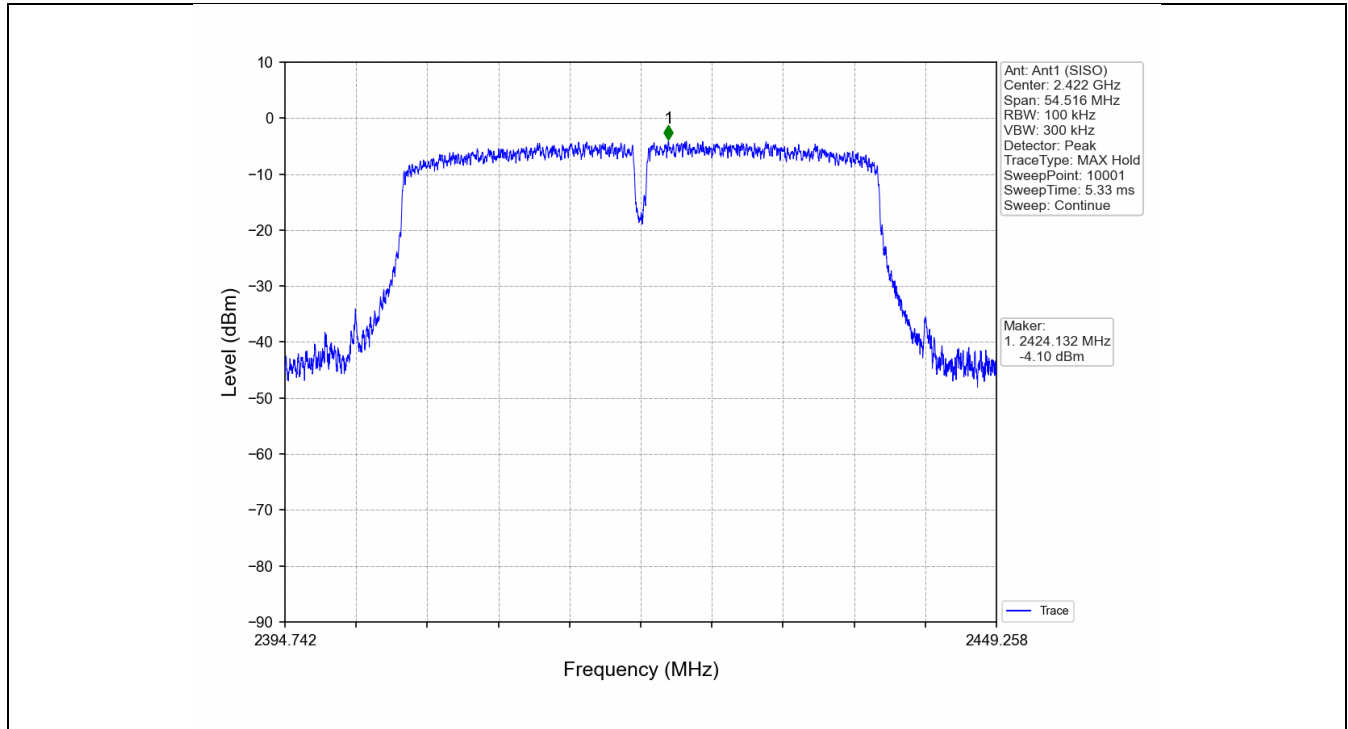
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802.11n(HT40) MCH_2437MHz Ant1 (SISO) NTV

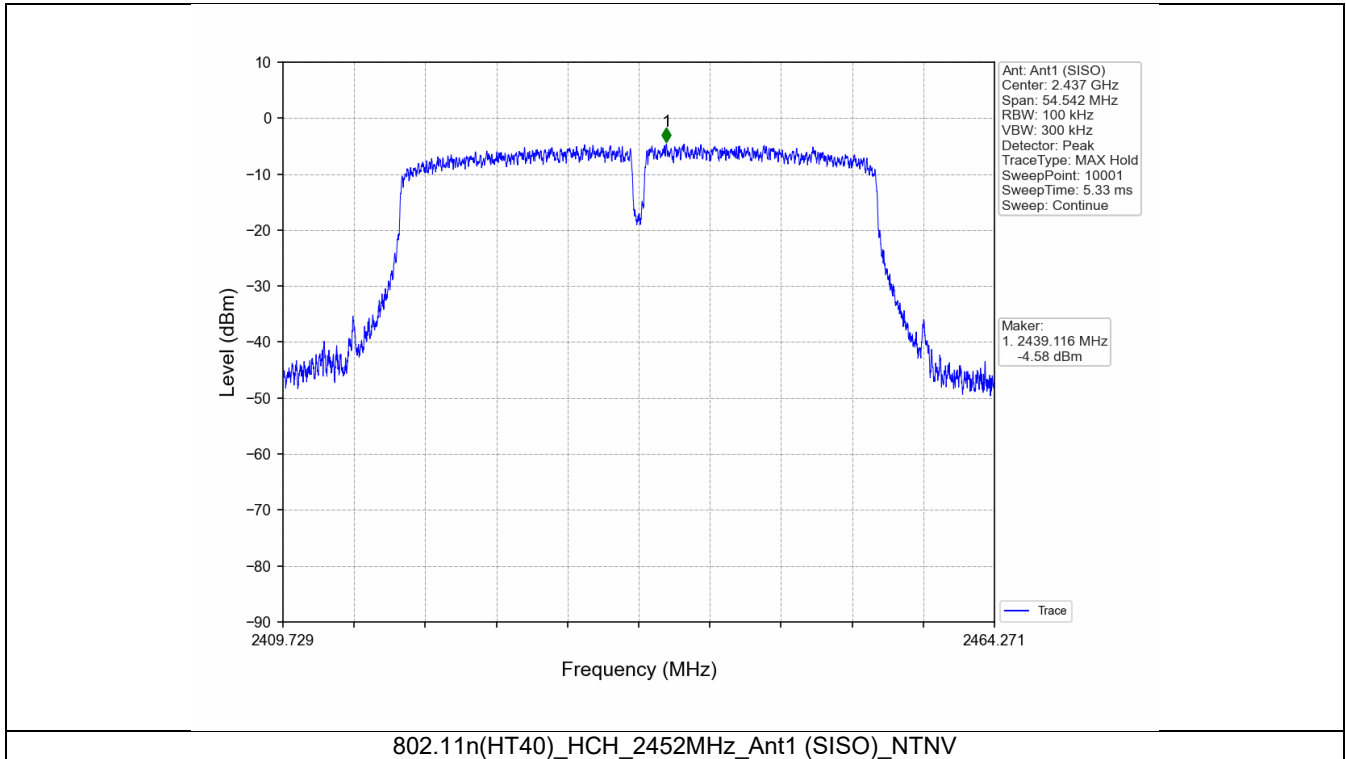


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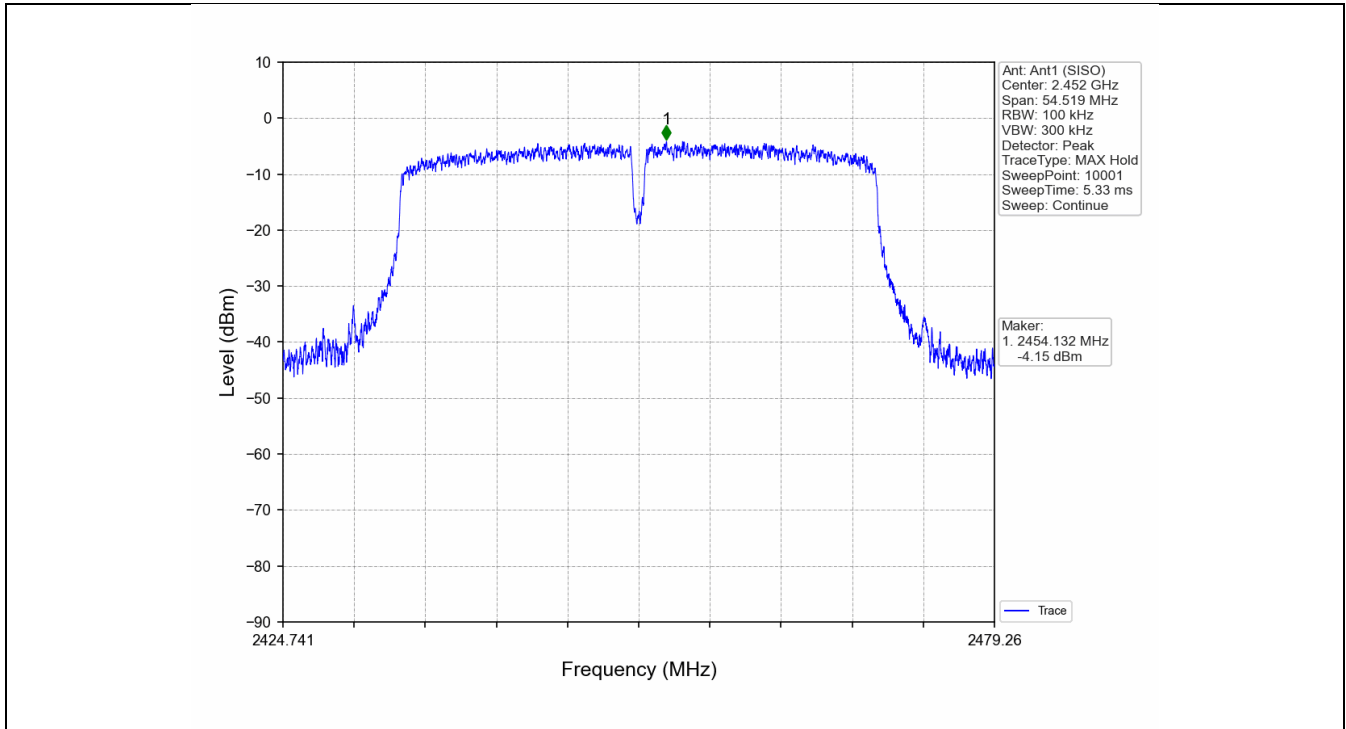


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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	6.95	-13.05	Pass
		2437	1	6.95	-13.05	Pass
		2462	1	6.95	-13.05	Pass
802.11g	SISO	2412	1	-0.86	-20.86	Pass
		2437	1	-0.86	-20.86	Pass
		2462	1	-0.86	-20.86	Pass
802.11n (HT20)	SISO	2412	1	-0.77	-20.77	Pass
		2437	1	-0.77	-20.77	Pass
		2462	1	-0.77	-20.77	Pass
802.11n (HT40)	SISO	2422	1	-4.10	-24.10	Pass
		2437	1	-4.10	-24.10	Pass
		2452	1	-4.10	-24.10	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.



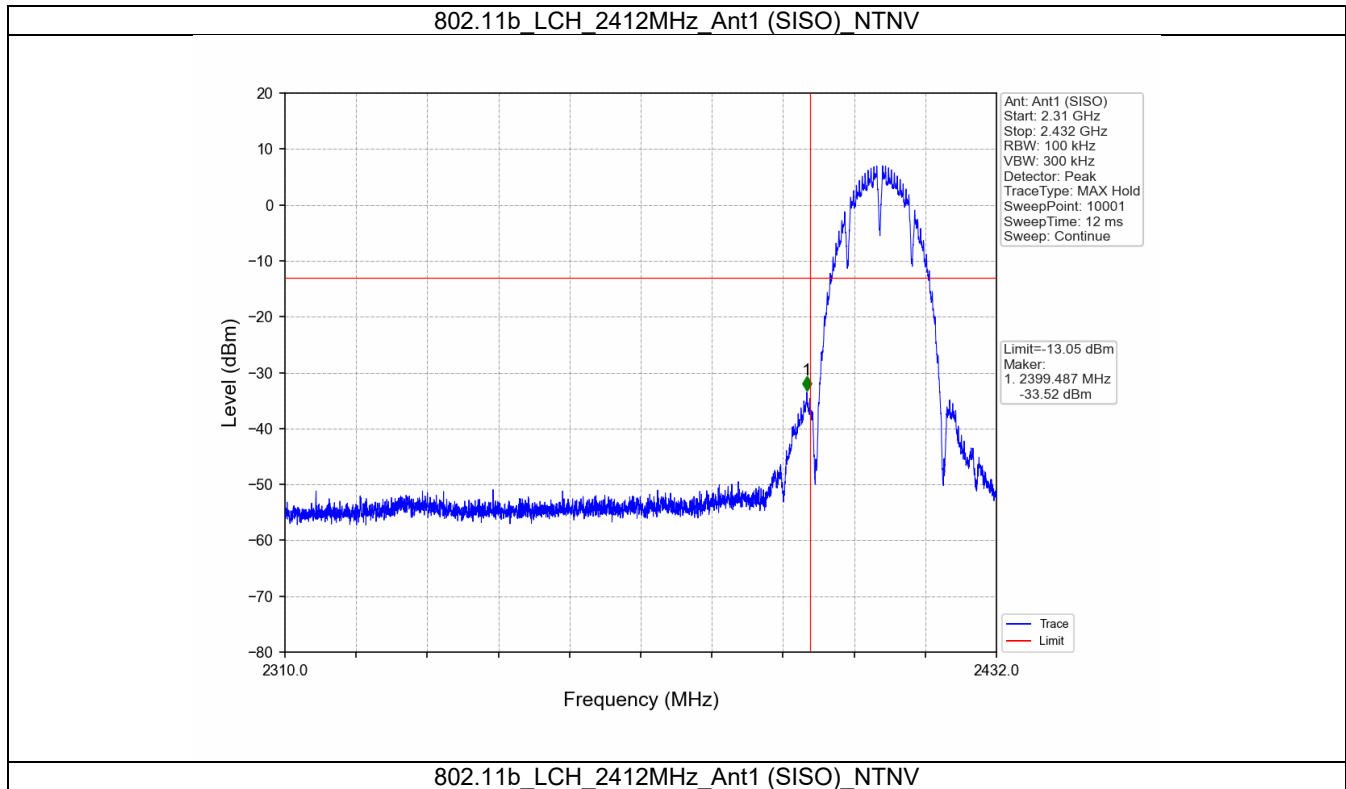
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5.2.2 Test Graph

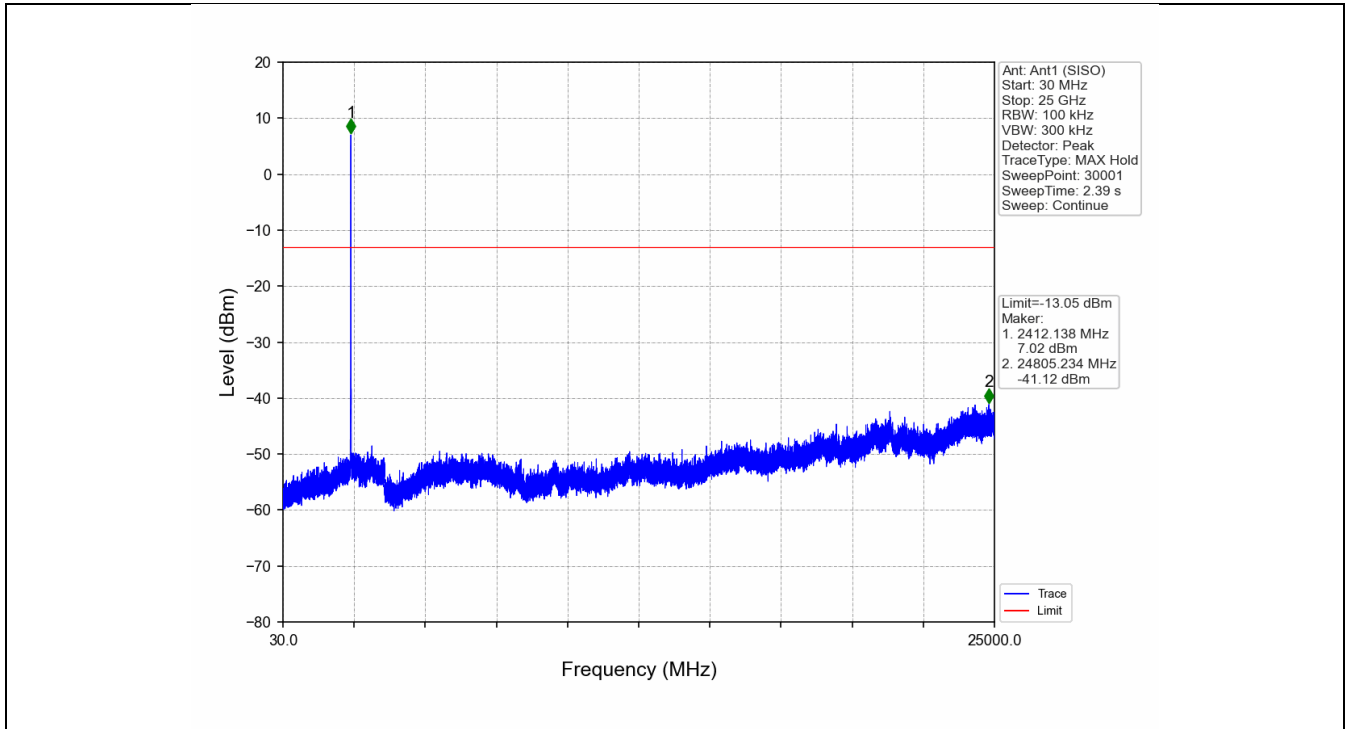


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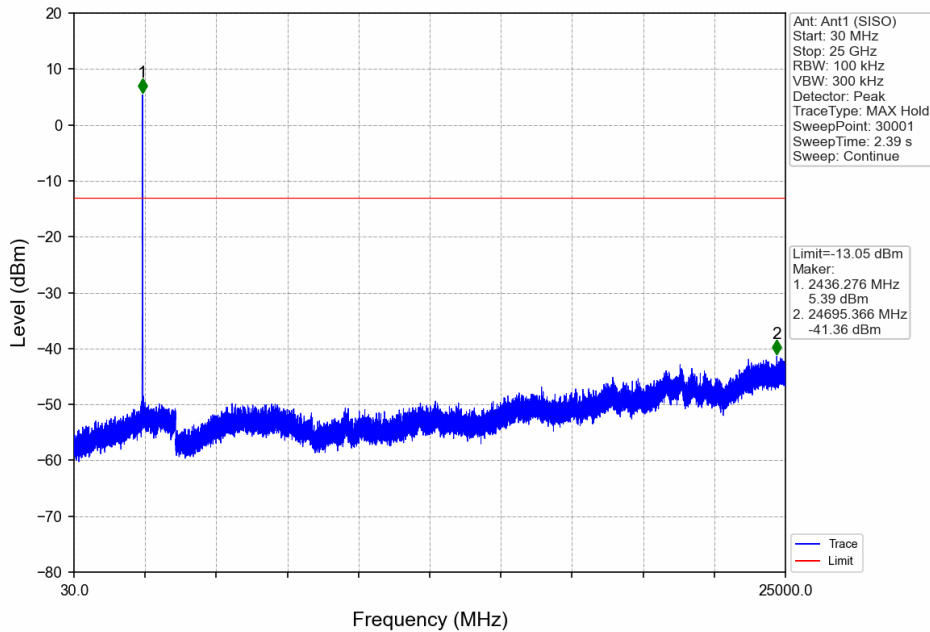
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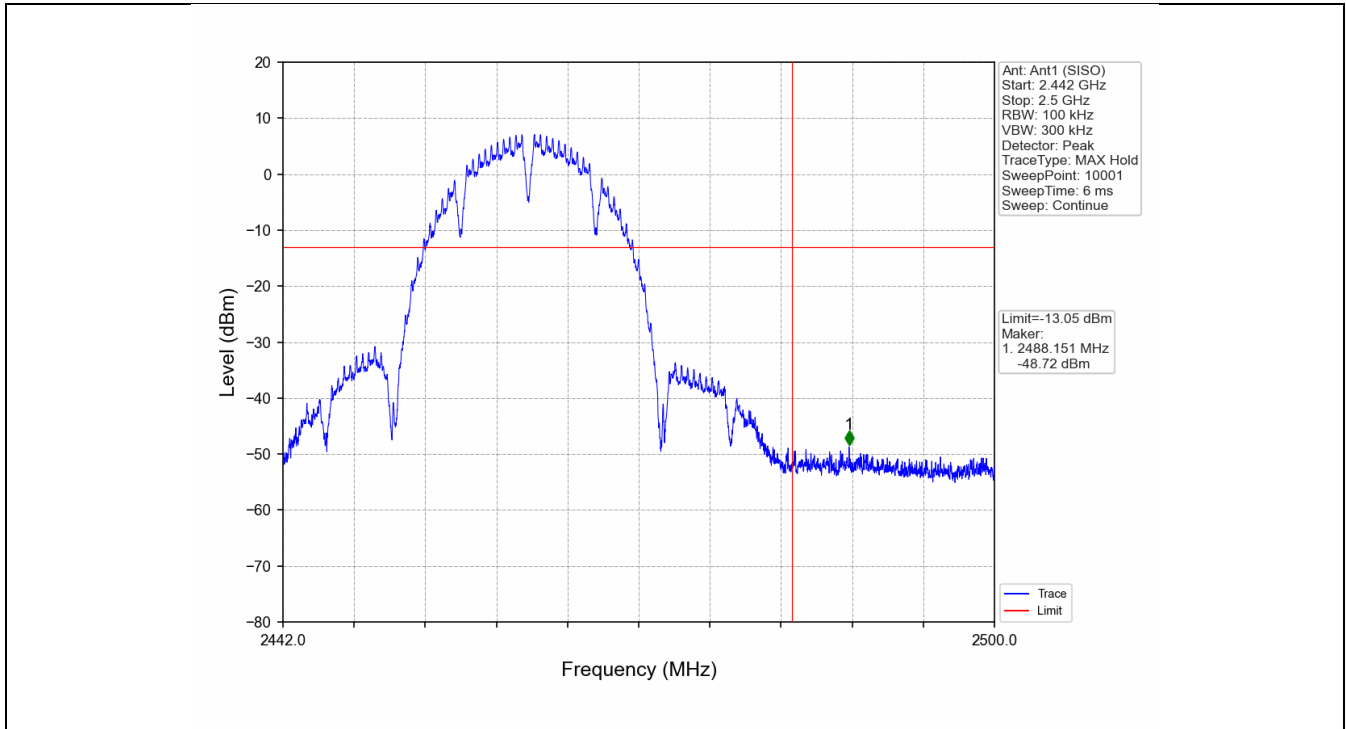


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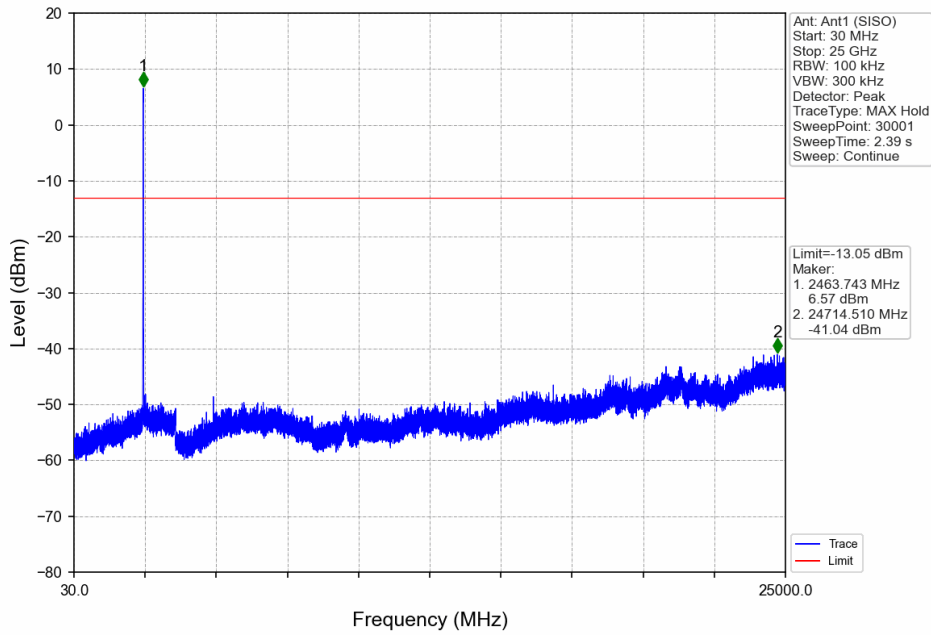
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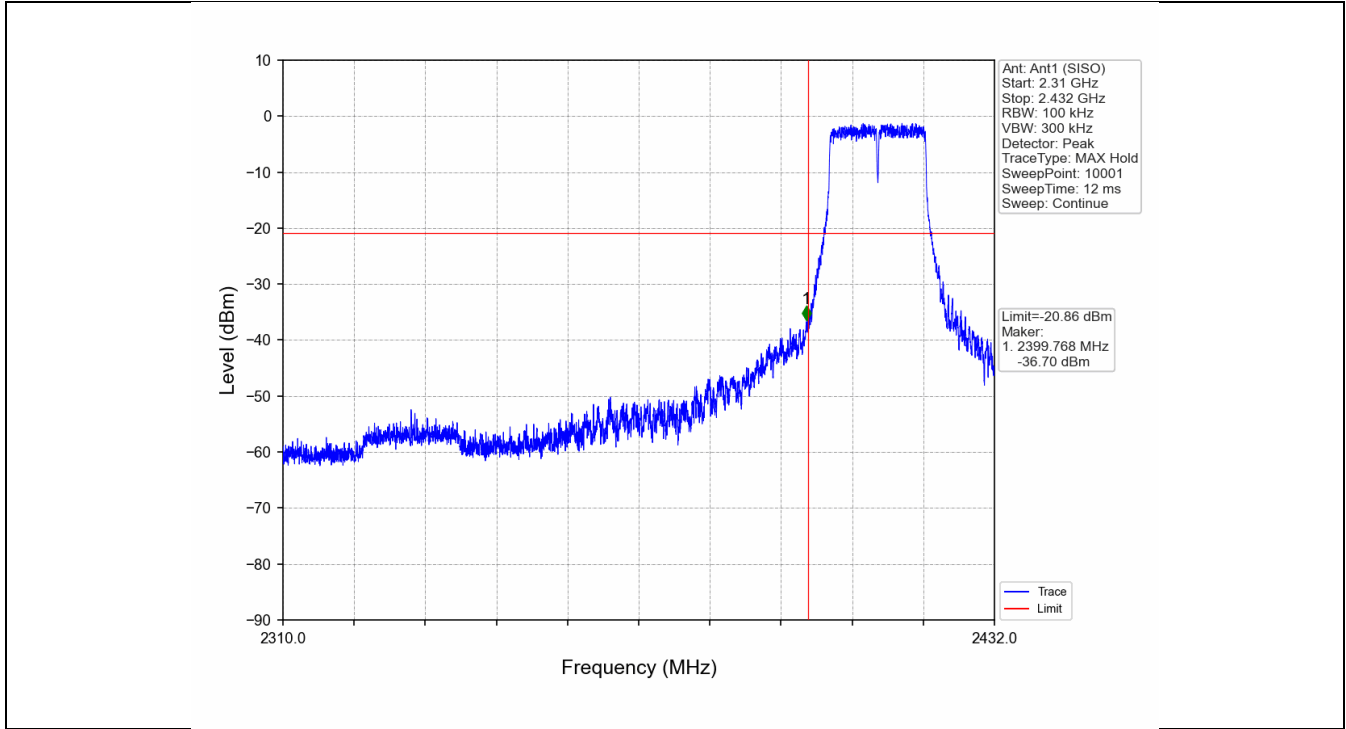


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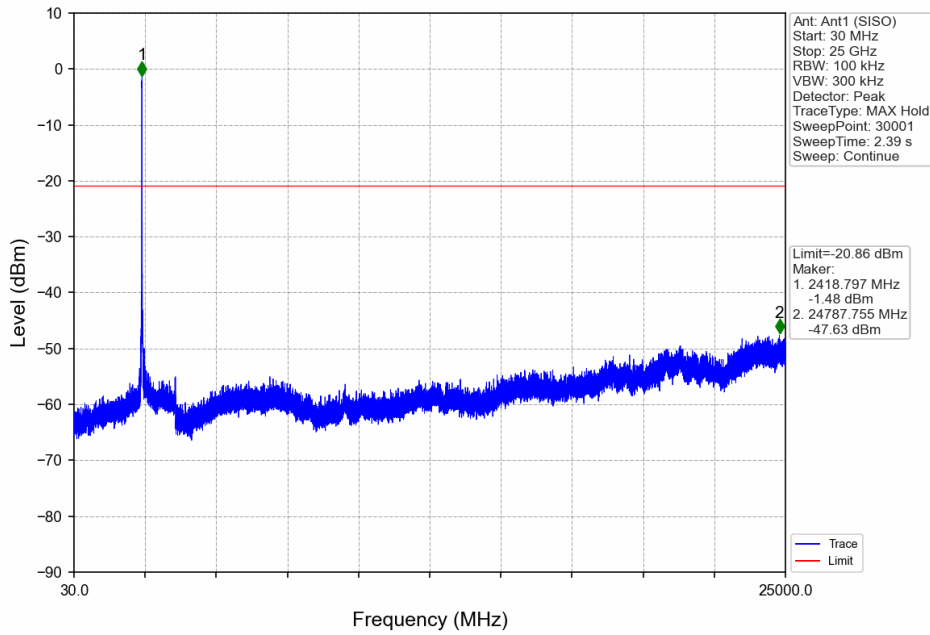
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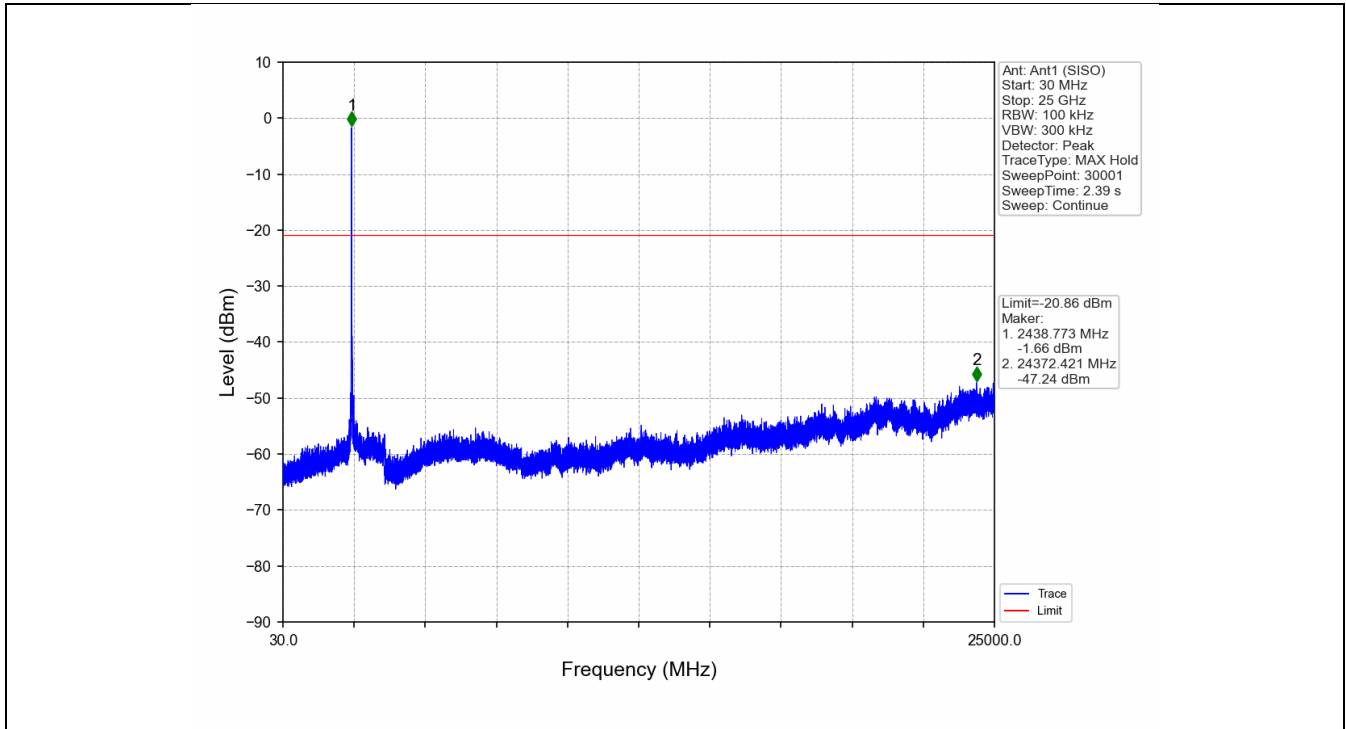


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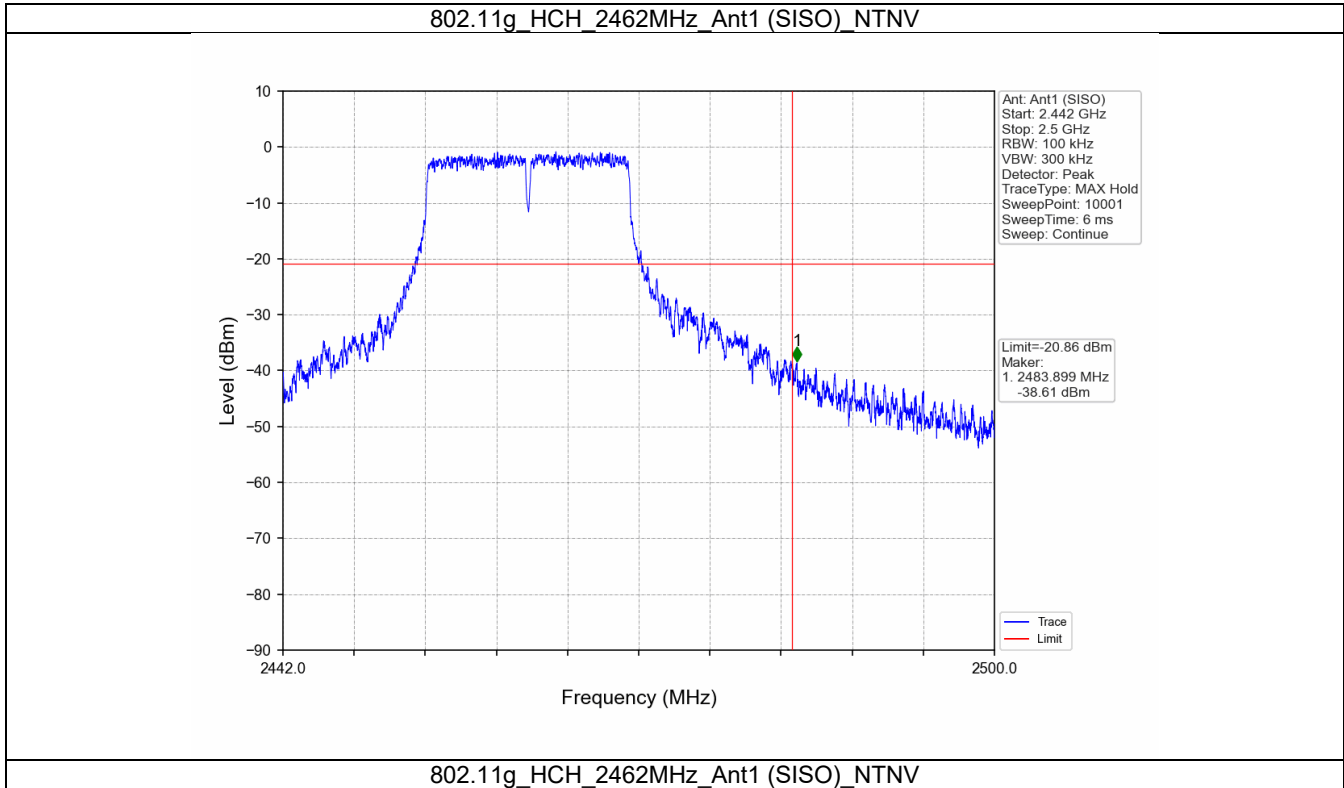


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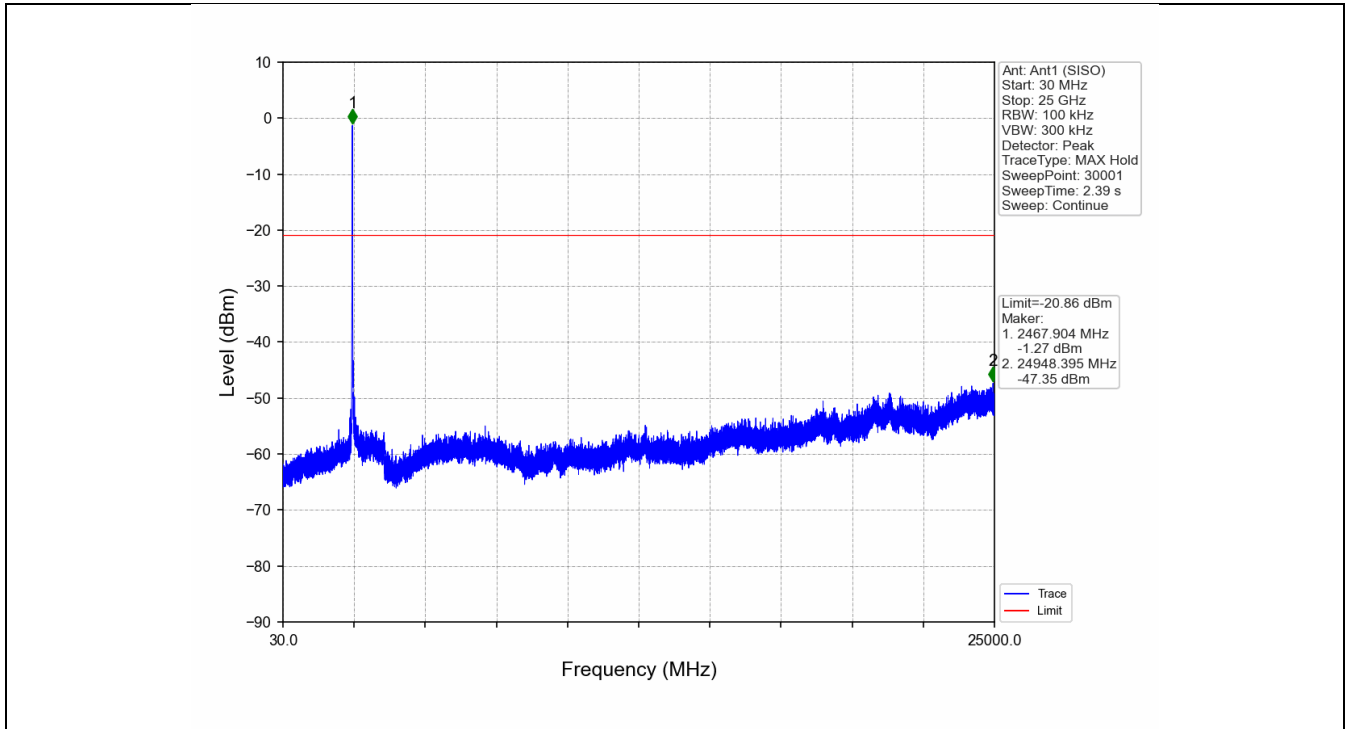


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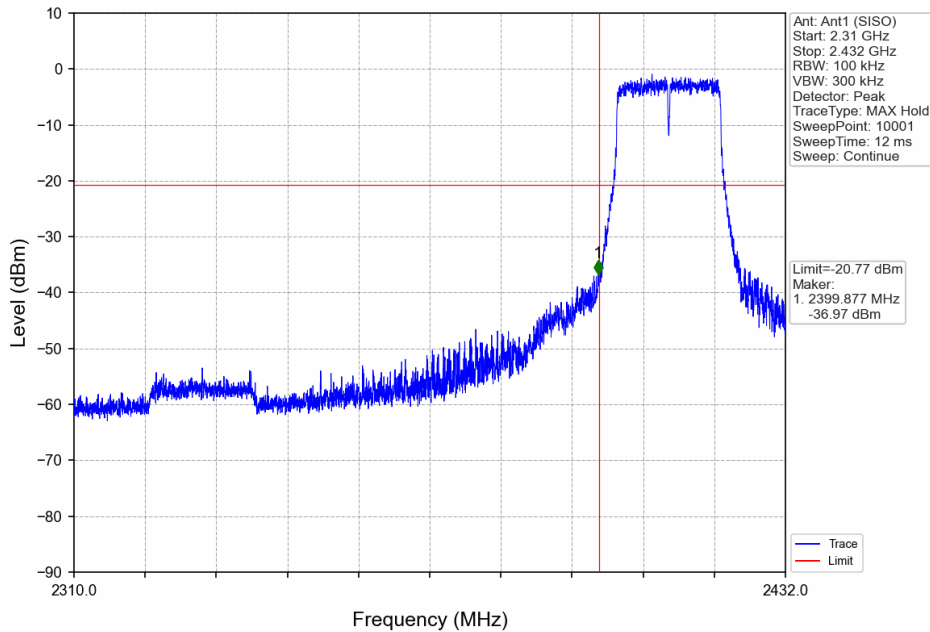
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

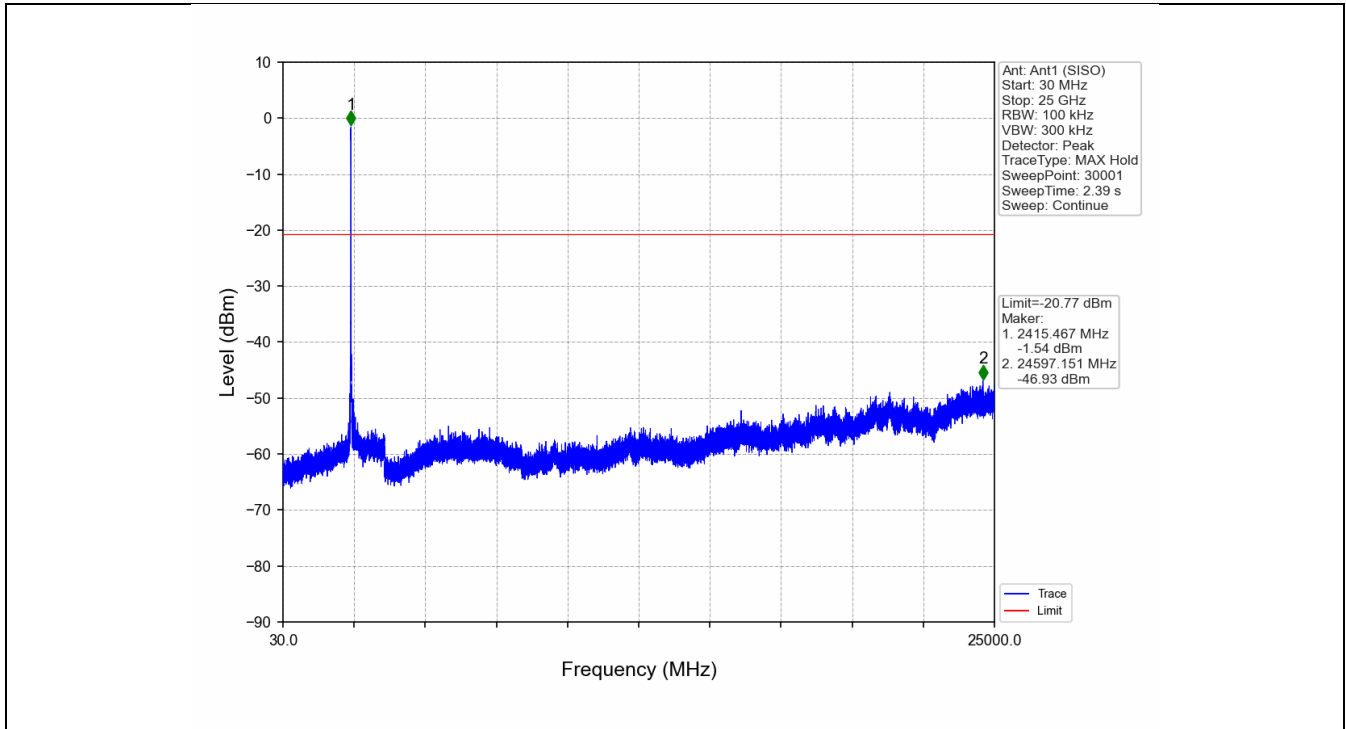


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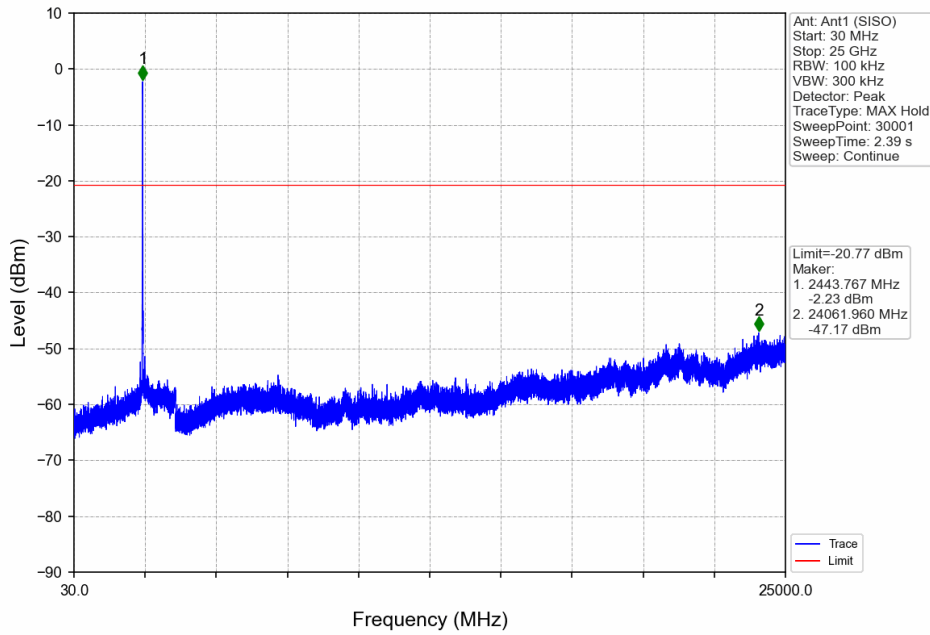
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

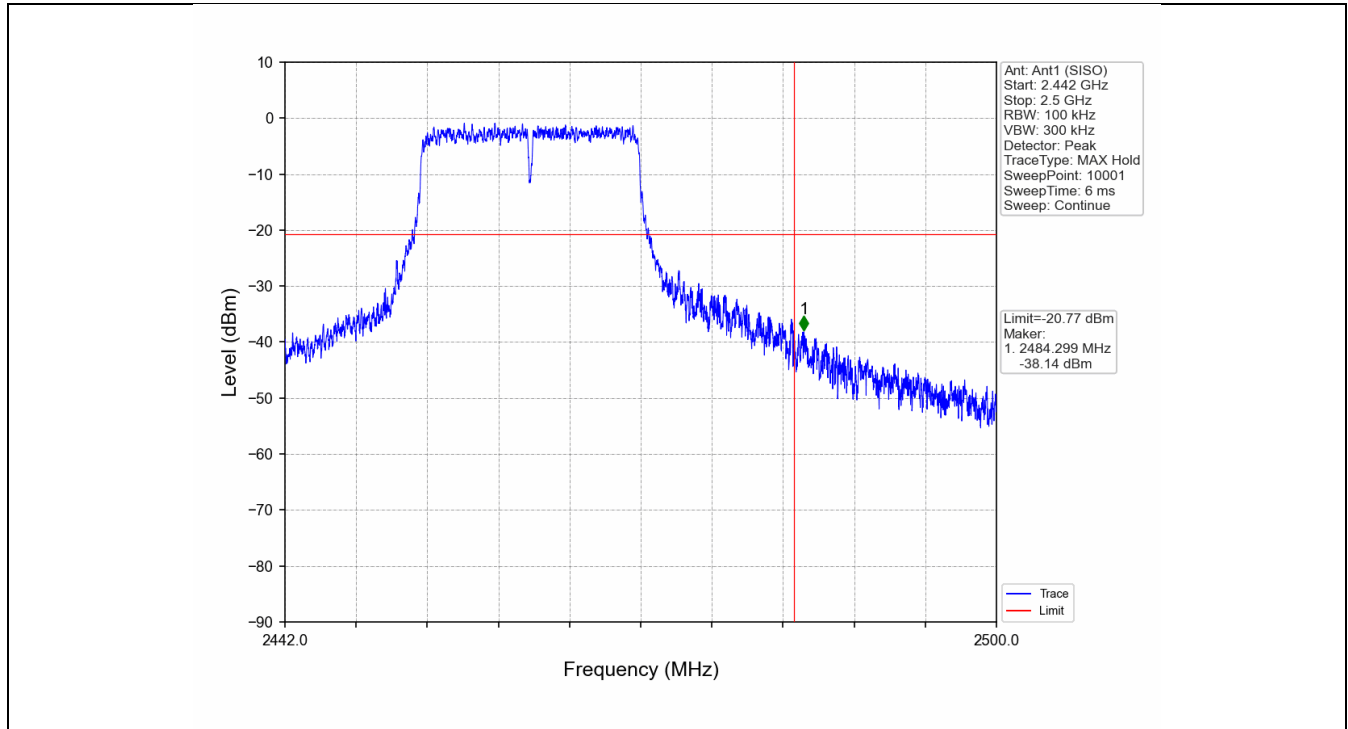


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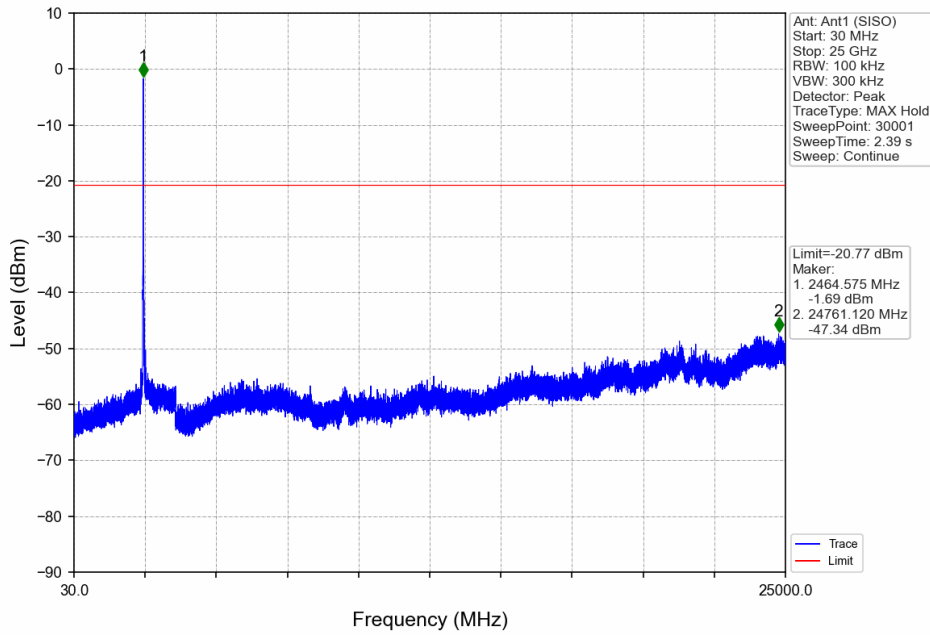
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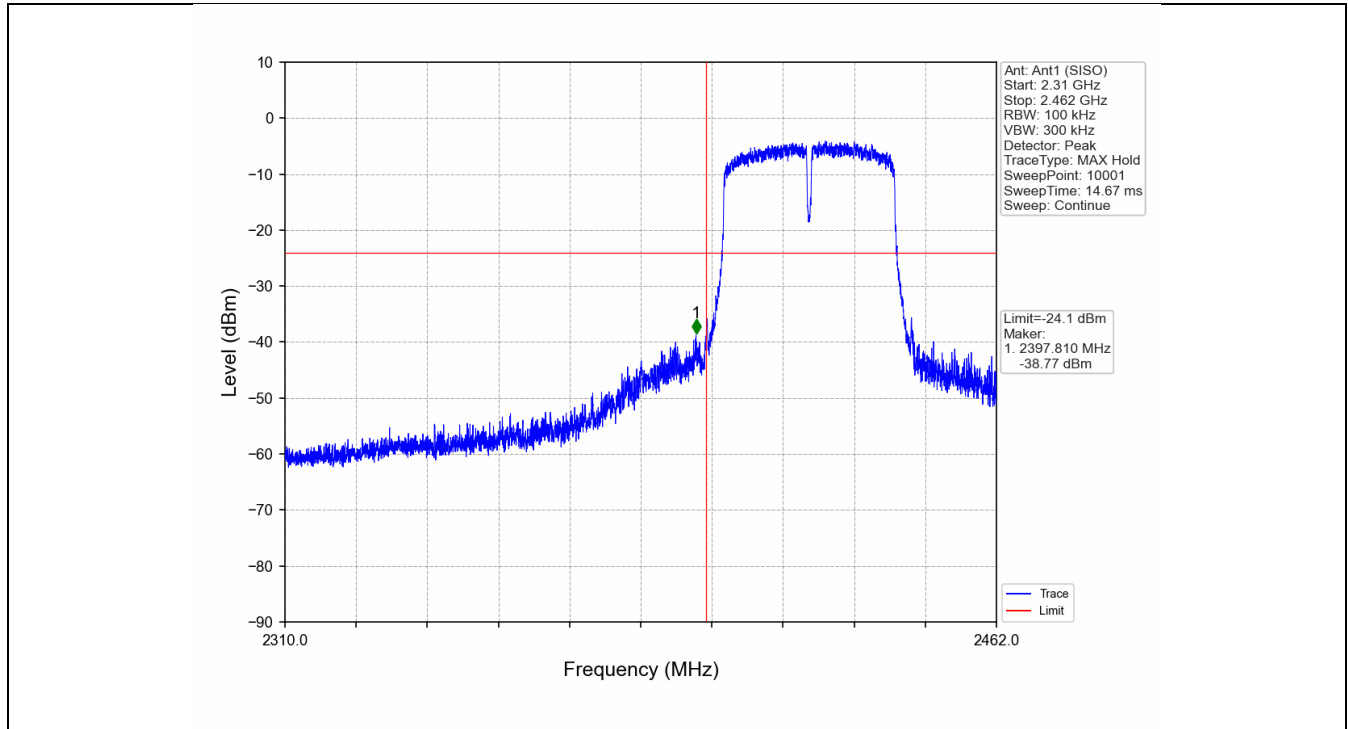


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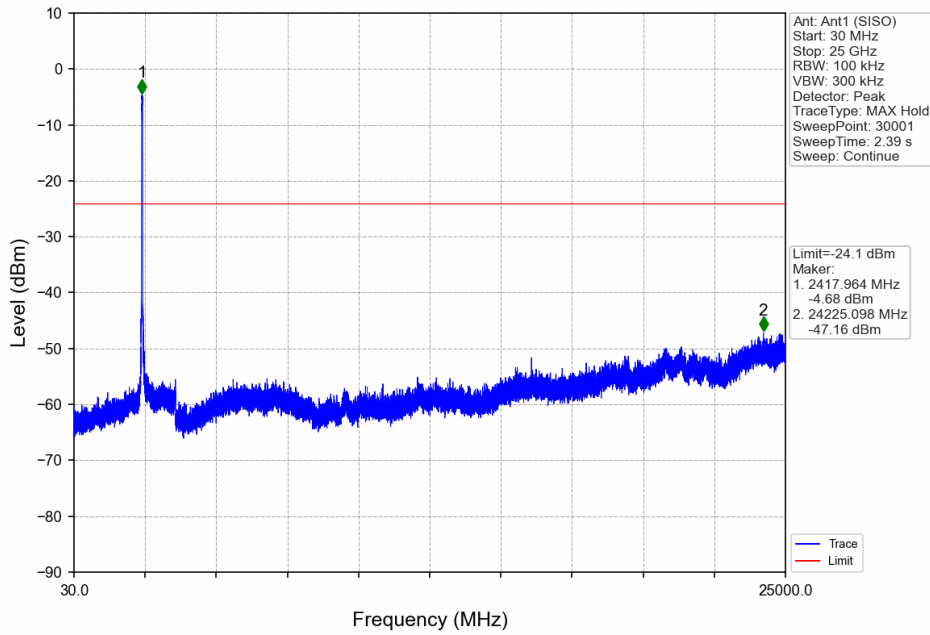
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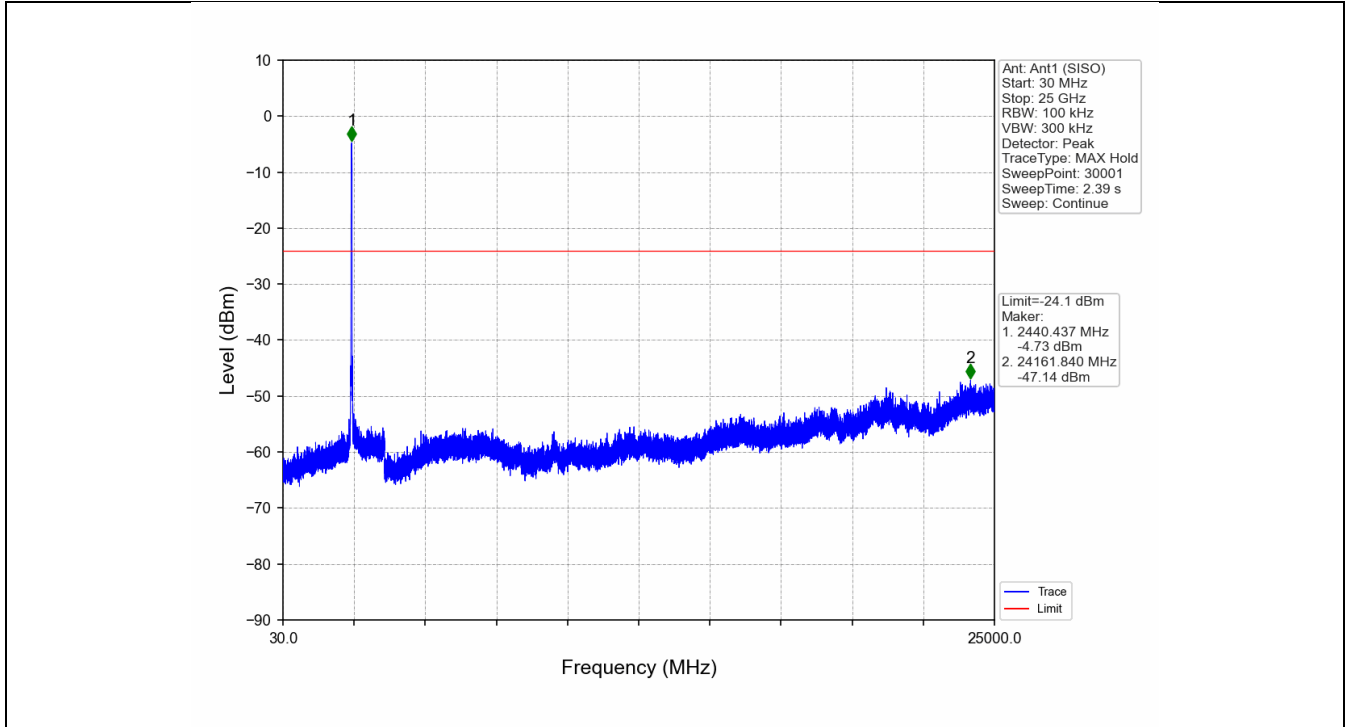


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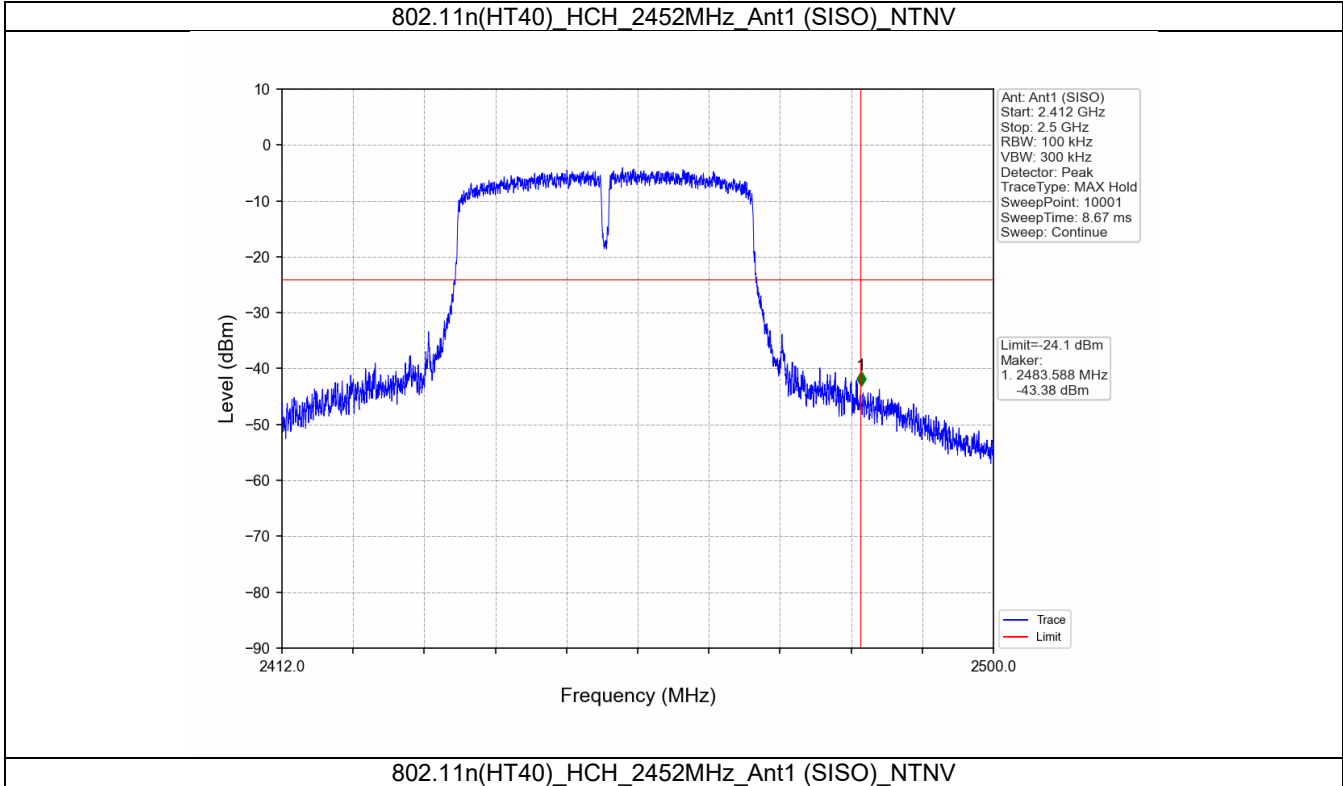


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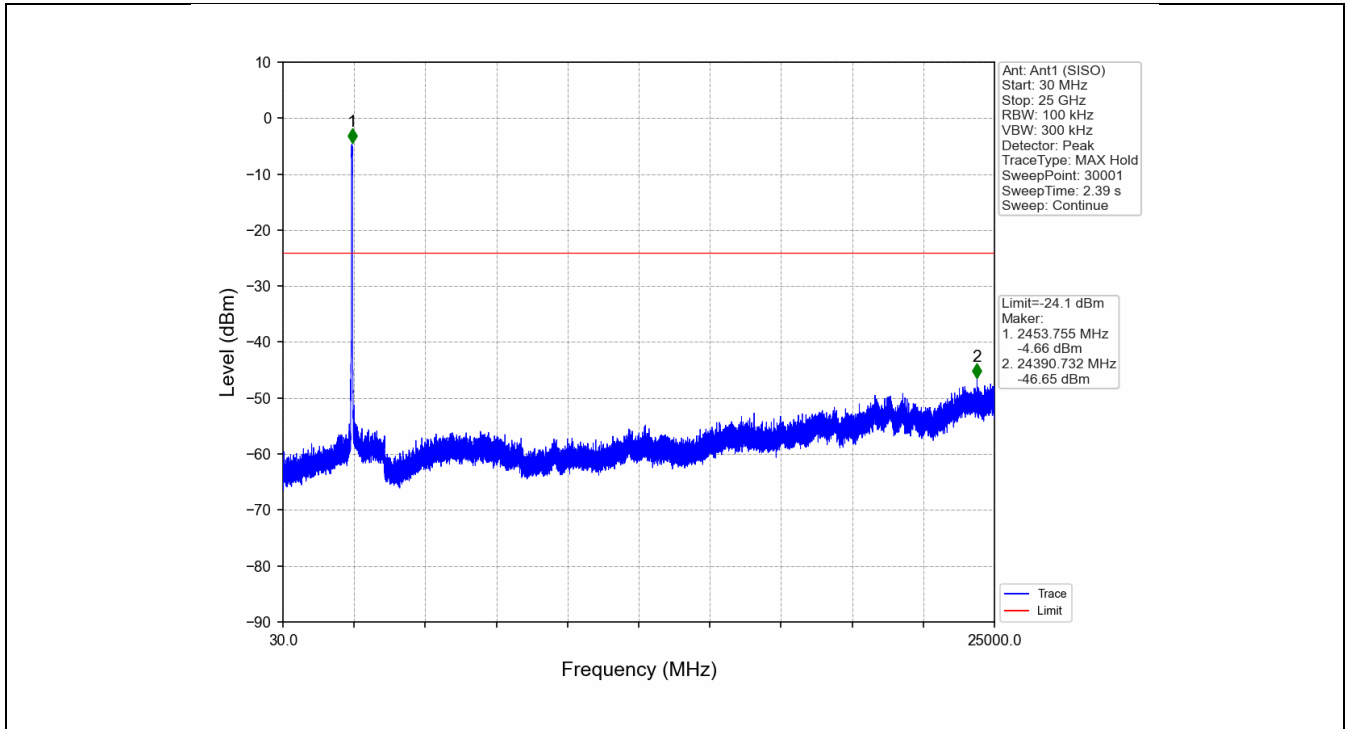


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