

Appendix Test Data

Report No.:	18220WC10106002	Test Date:	2021.7.7
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56 %
Pressure:	1012 hPa		

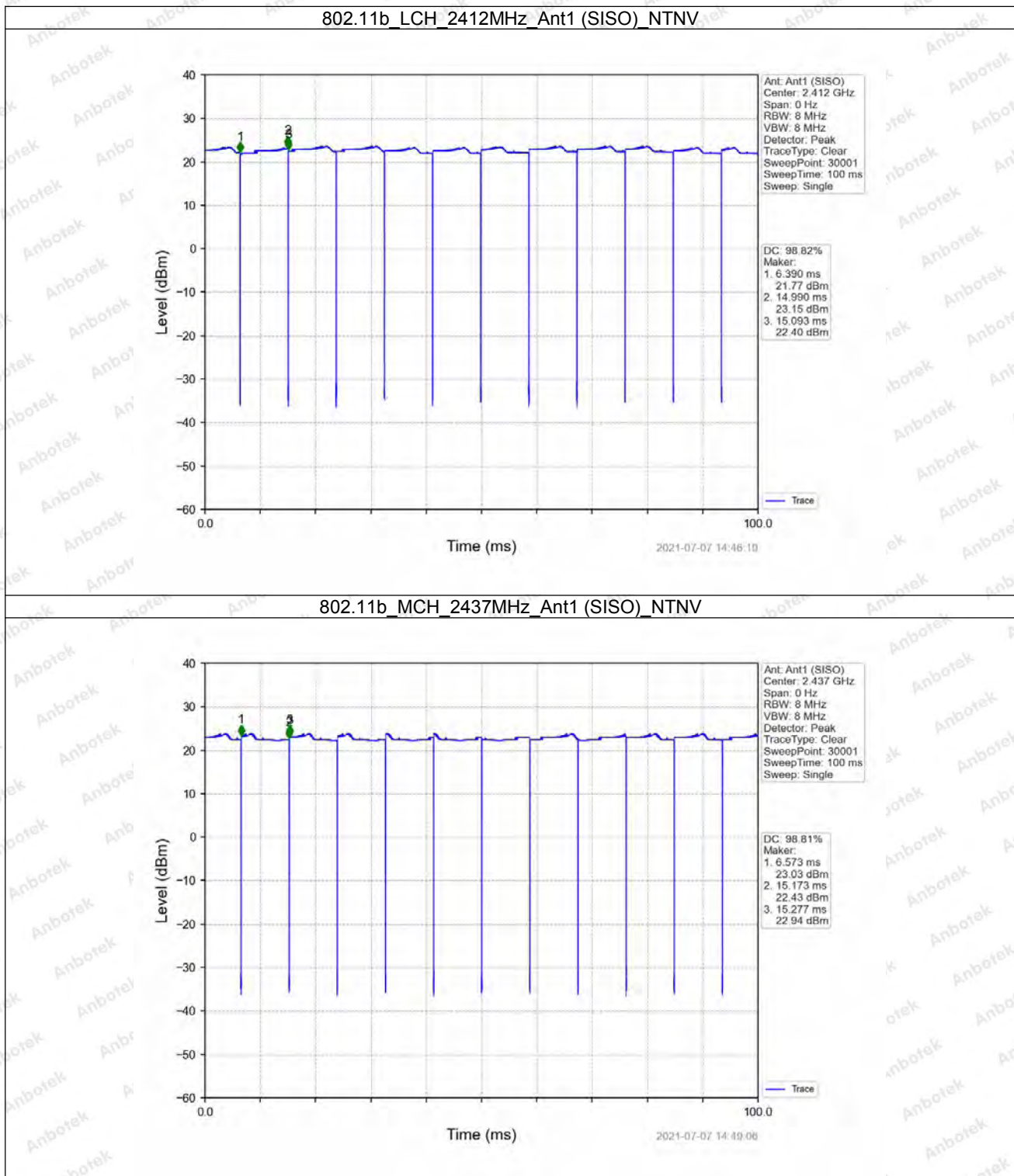
1. Duty Cycle

1.1 Ant1

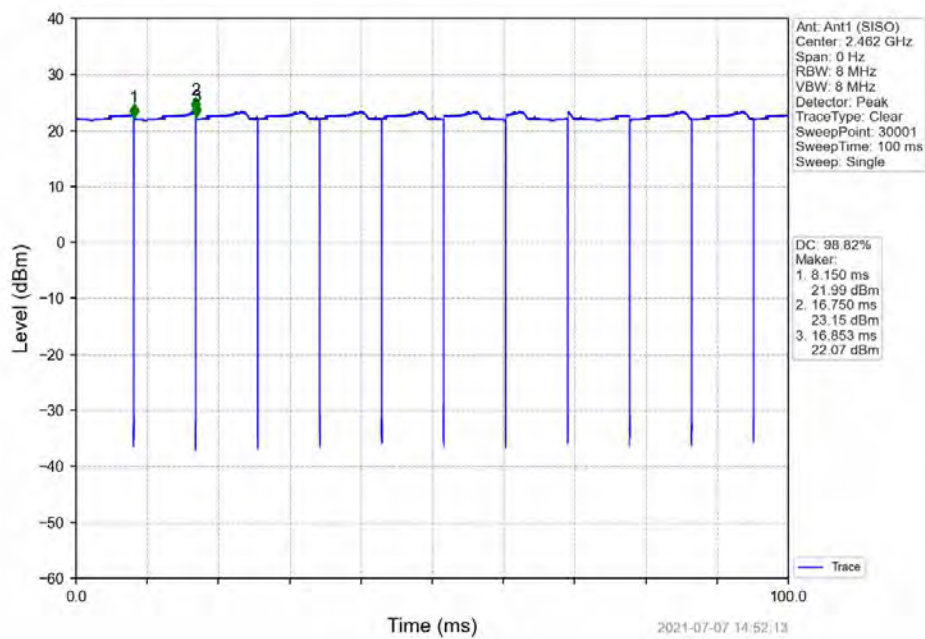
1.1.1 Test Result

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	8.60	8.70	98.82	0.05	0.00
		2437	8.60	8.70	98.81	0.05	0.00
		2462	8.60	8.70	98.82	0.05	0.00
802.11g	SISO	2412	1.43	1.53	93.32	0.30	0.00
		2437	1.43	1.53	93.46	0.29	0.03
		2462	1.43	1.53	93.45	0.29	0.00
802.11n (HT20)	SISO	2412	1.34	1.44	93.04	0.31	0.03
		2437	1.33	1.44	92.75	0.33	0.00
		2462	1.34	1.44	93.10	0.31	0.00

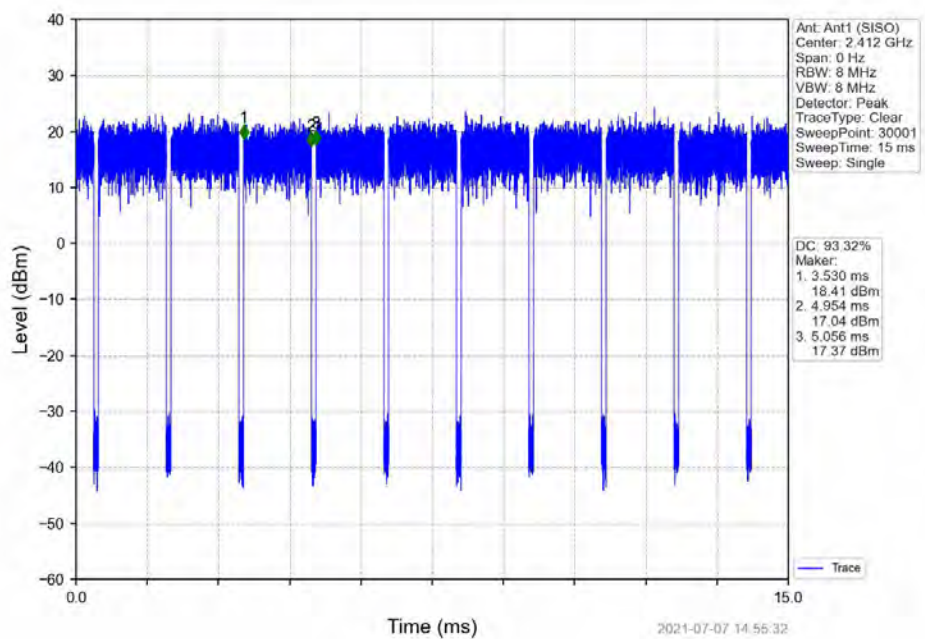
1.1.2 Test Graph



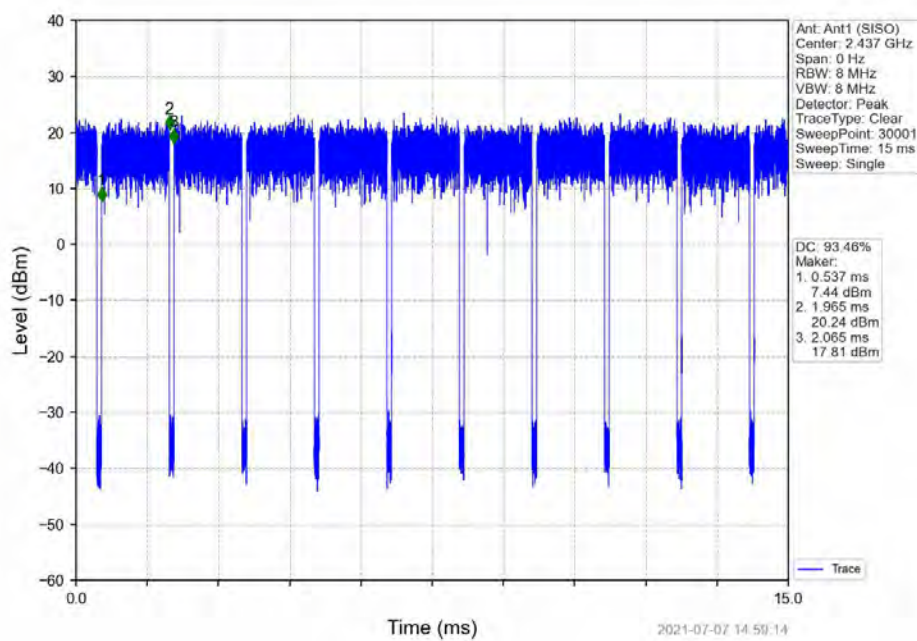
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



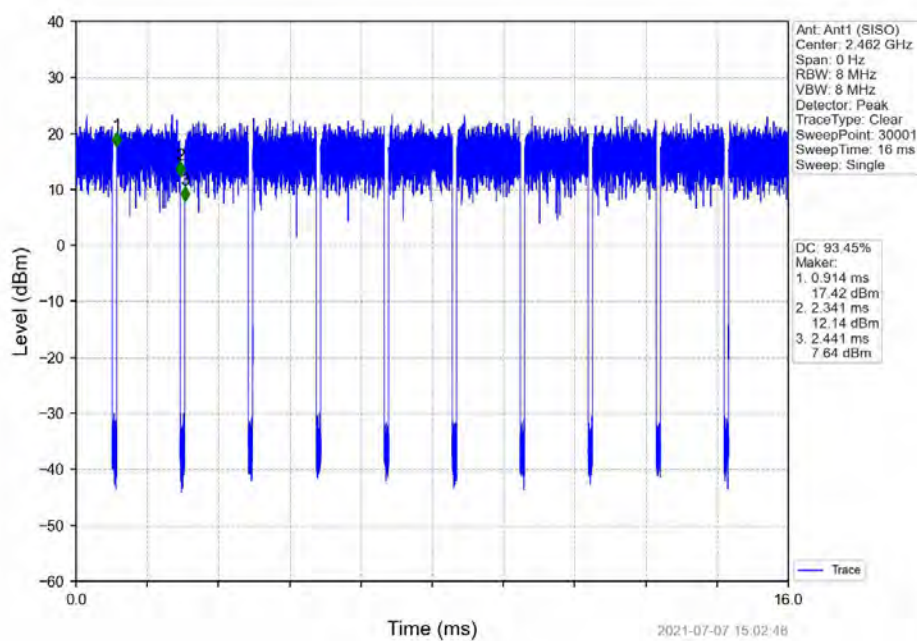
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



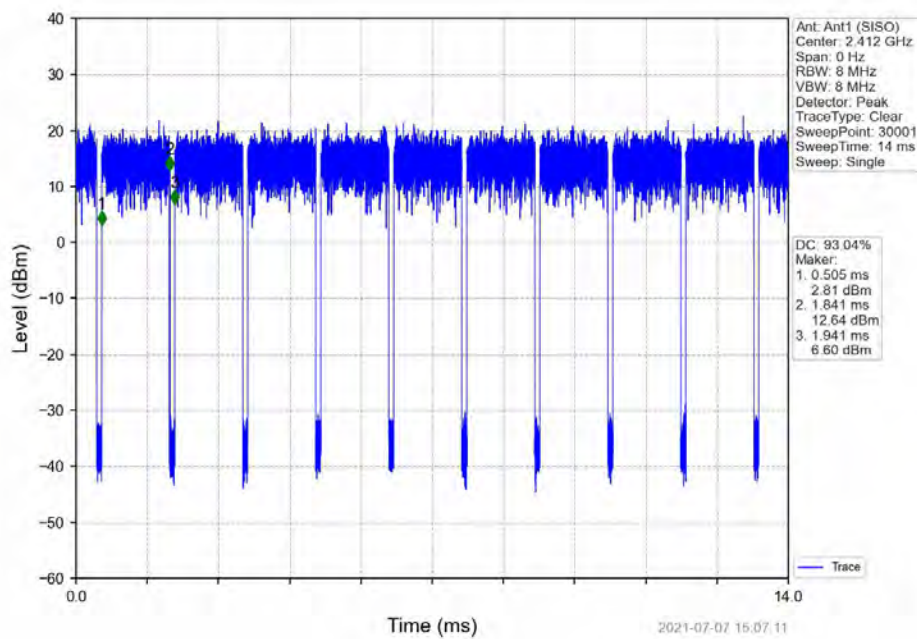
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



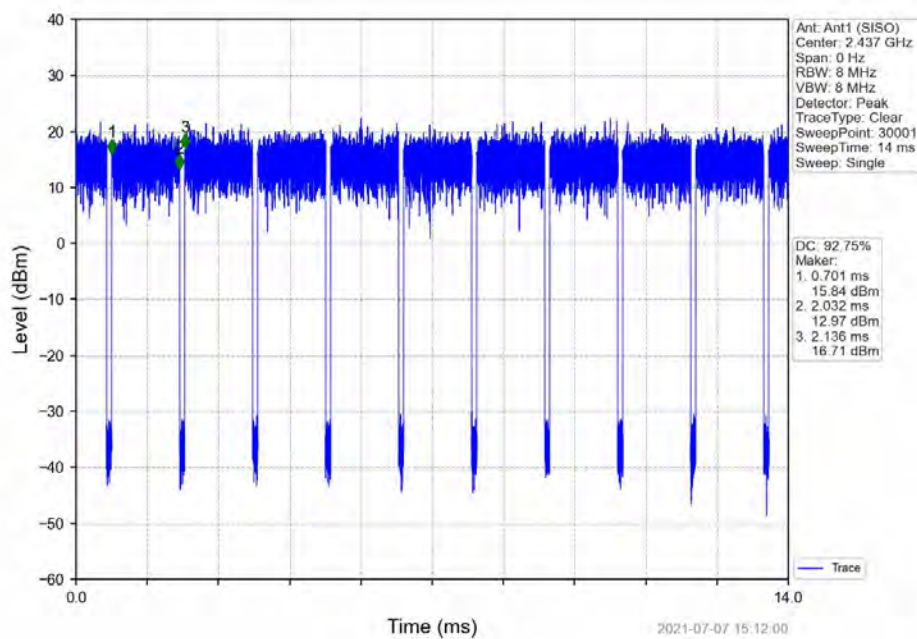
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

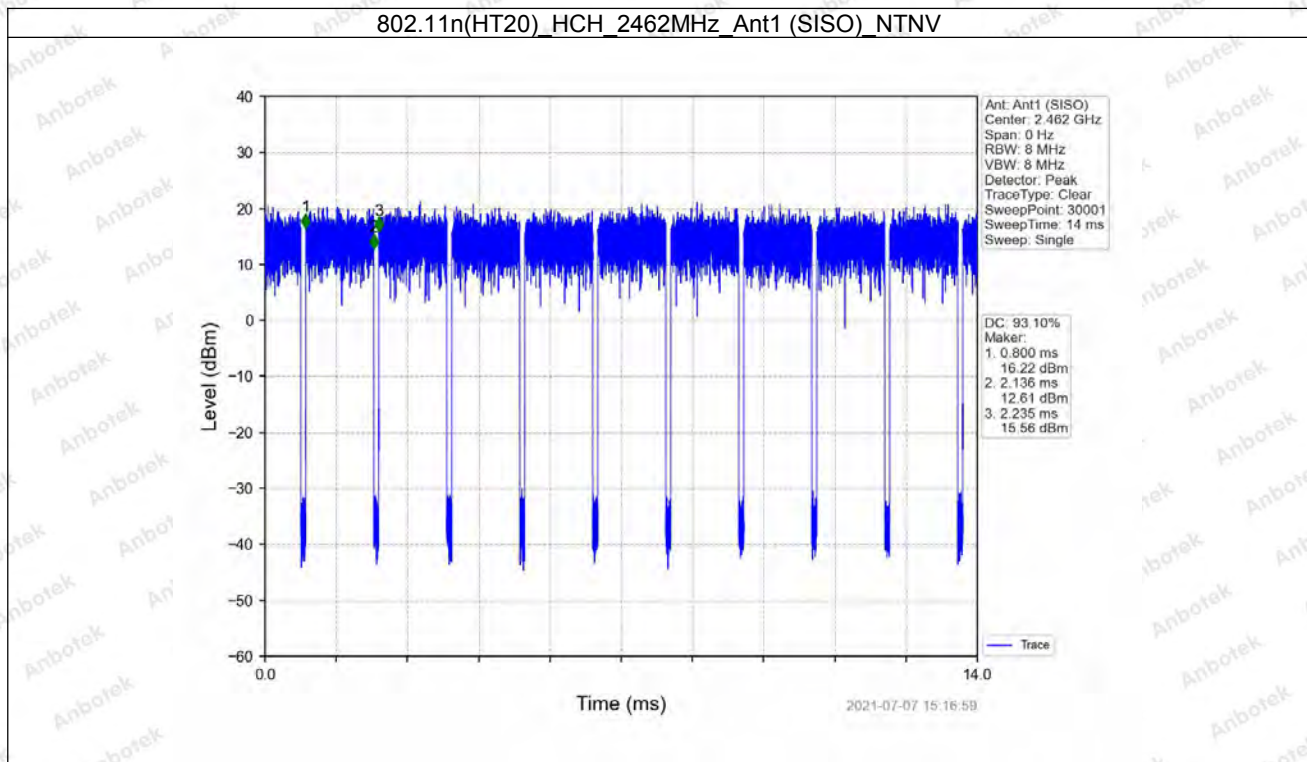


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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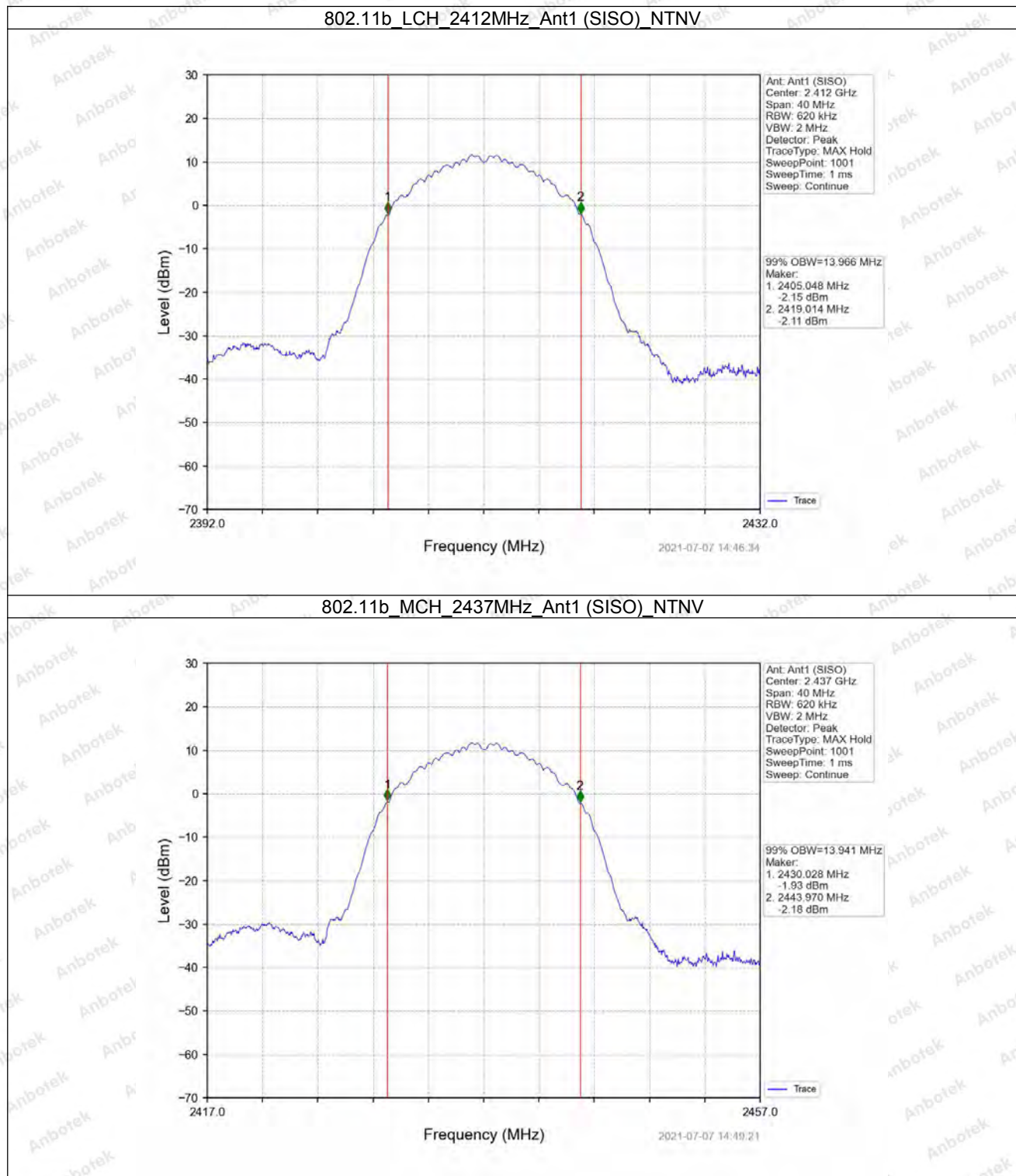
2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Limit	Verdict
802.11b	SISO	2412	1	13.97	/	Pass
		2437	1	13.94	/	Pass
		2462	1	13.91	/	Pass
802.11g	SISO	2412	1	17.28	/	Pass
		2437	1	17.26	/	Pass
		2462	1	17.28	/	Pass
802.11n (HT20)	SISO	2412	1	18.24	/	Pass
		2437	1	18.23	/	Pass
		2462	1	18.21	/	Pass

2.1.2 Test Graph



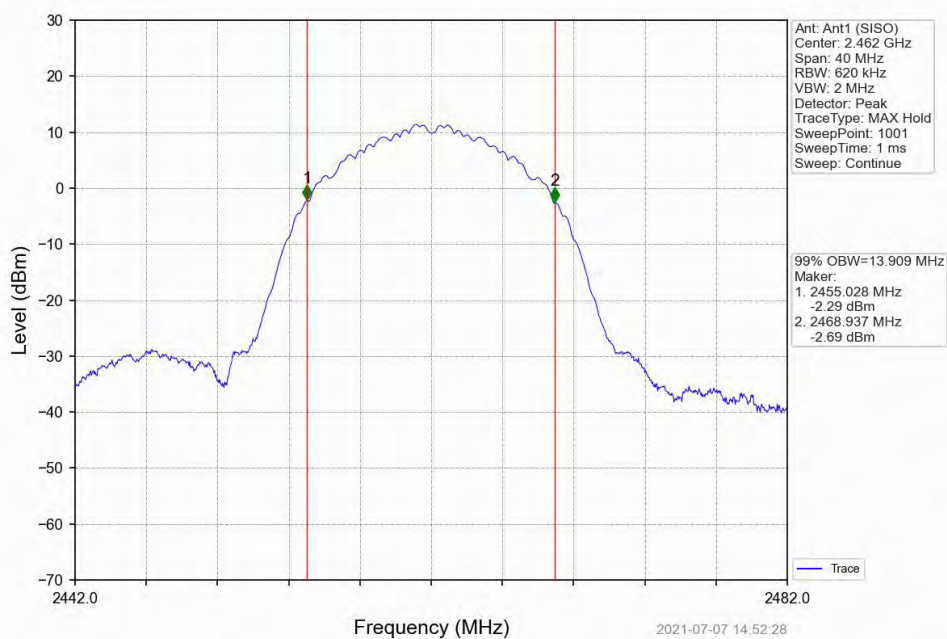
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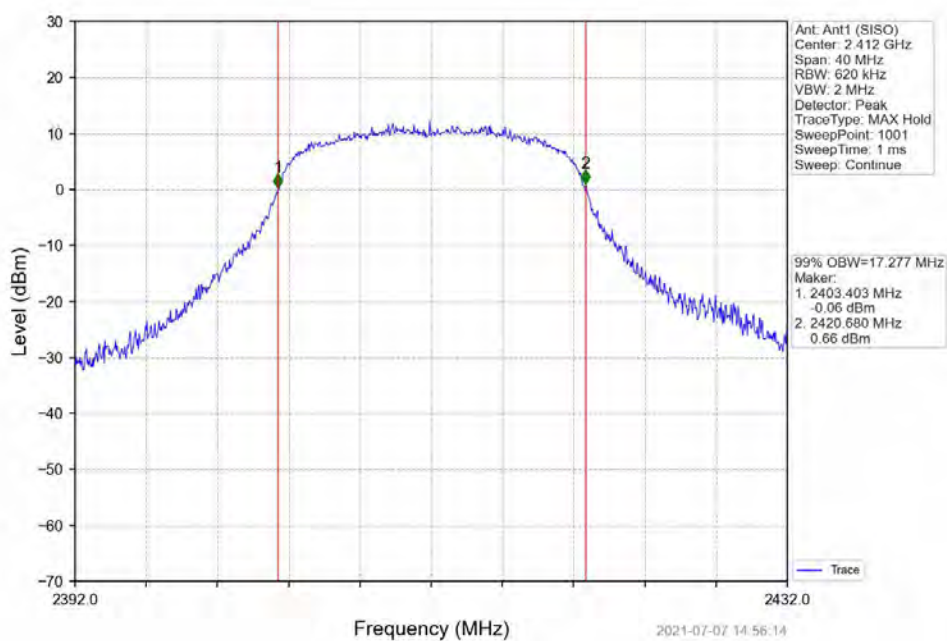
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



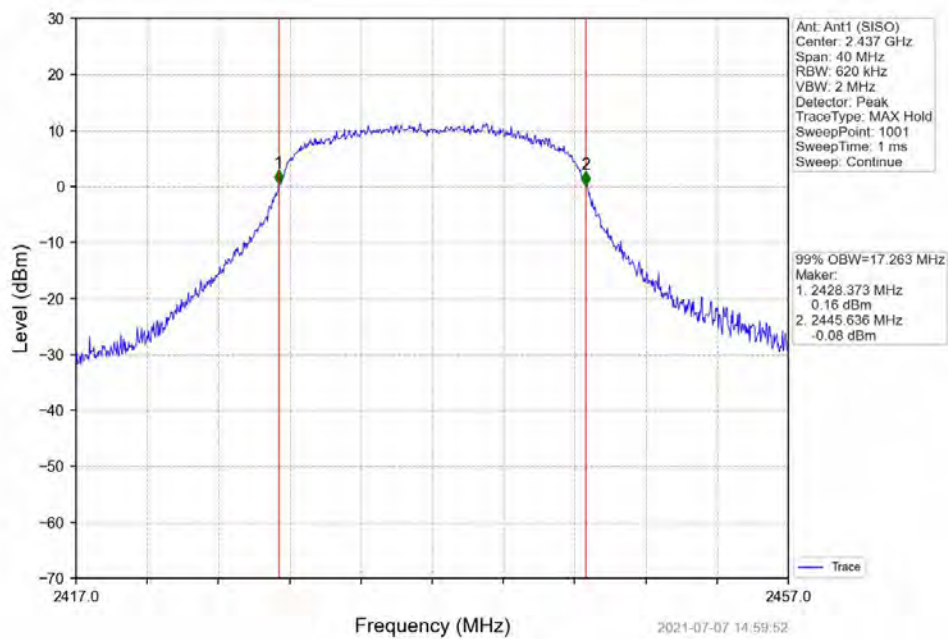
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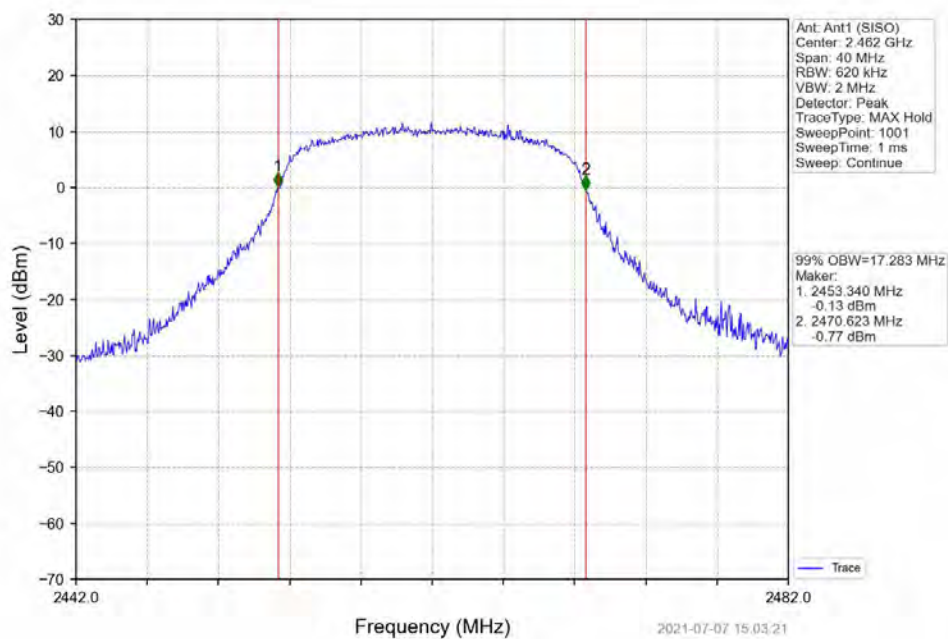
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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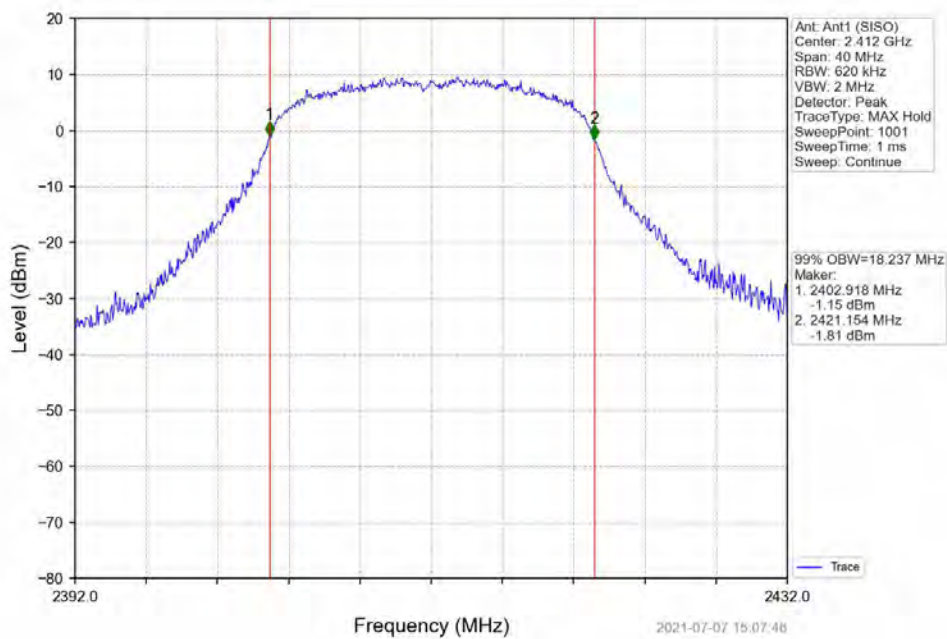


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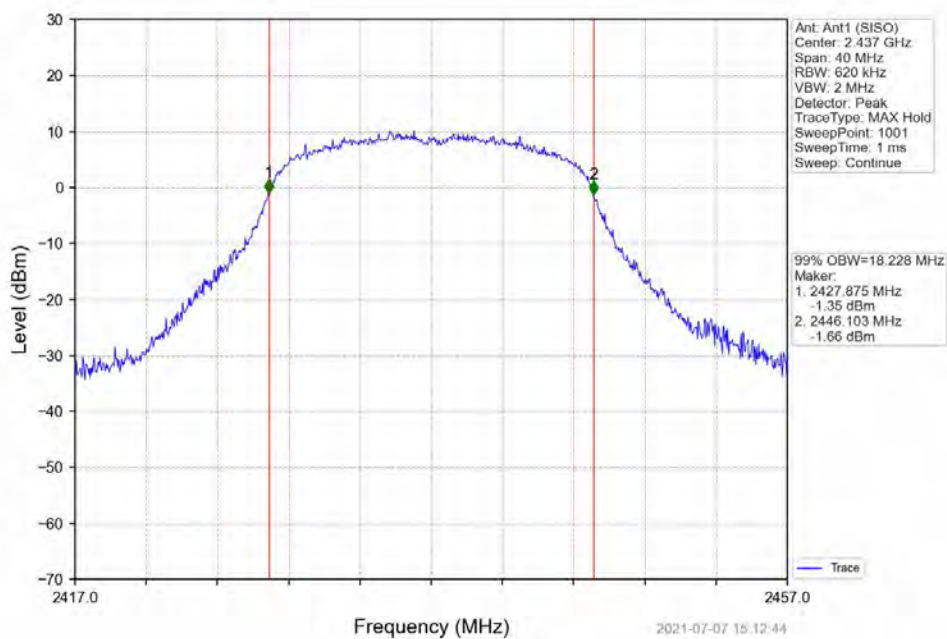
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

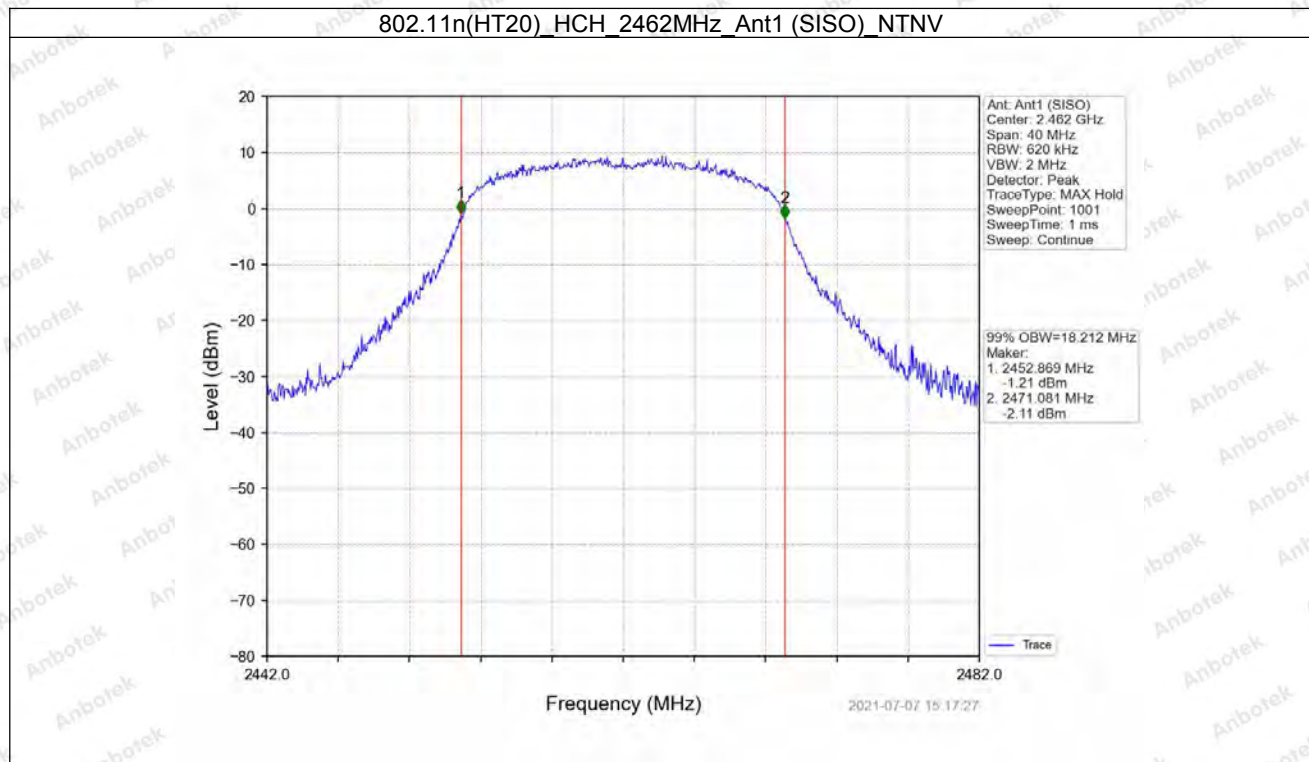


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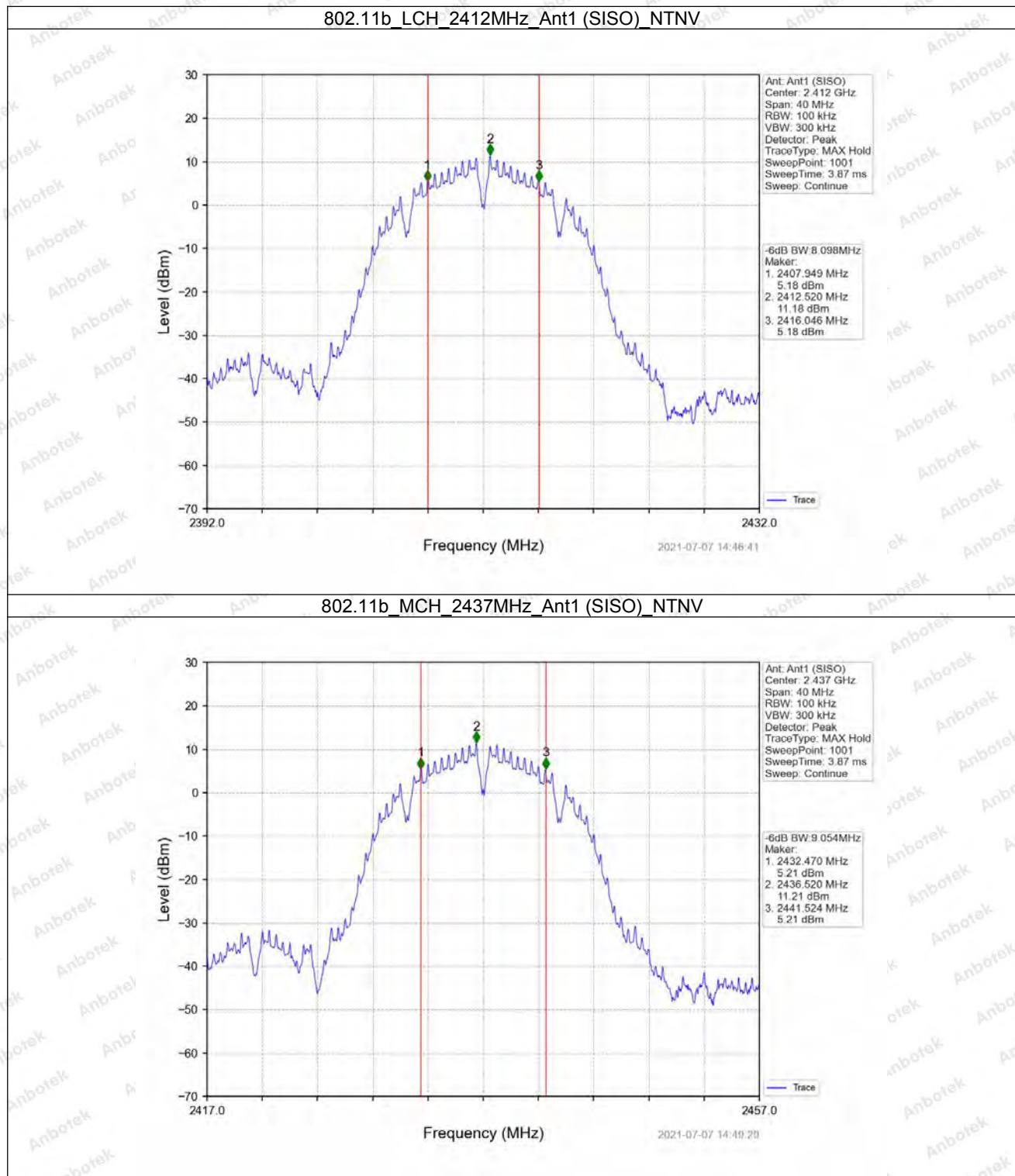
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)	Limit	Verdict
802.11b	SISO	2412	1	8.10	≥ 0.5	Pass
		2437	1	9.05	≥ 0.5	Pass
		2462	1	8.54	≥ 0.5	Pass
802.11g	SISO	2412	1	15.14	≥ 0.5	Pass
		2437	1	15.15	≥ 0.5	Pass
		2462	1	15.14	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.14	≥ 0.5	Pass
		2437	1	15.15	≥ 0.5	Pass
		2462	1	15.15	≥ 0.5	Pass

2.2.2 Test Graph



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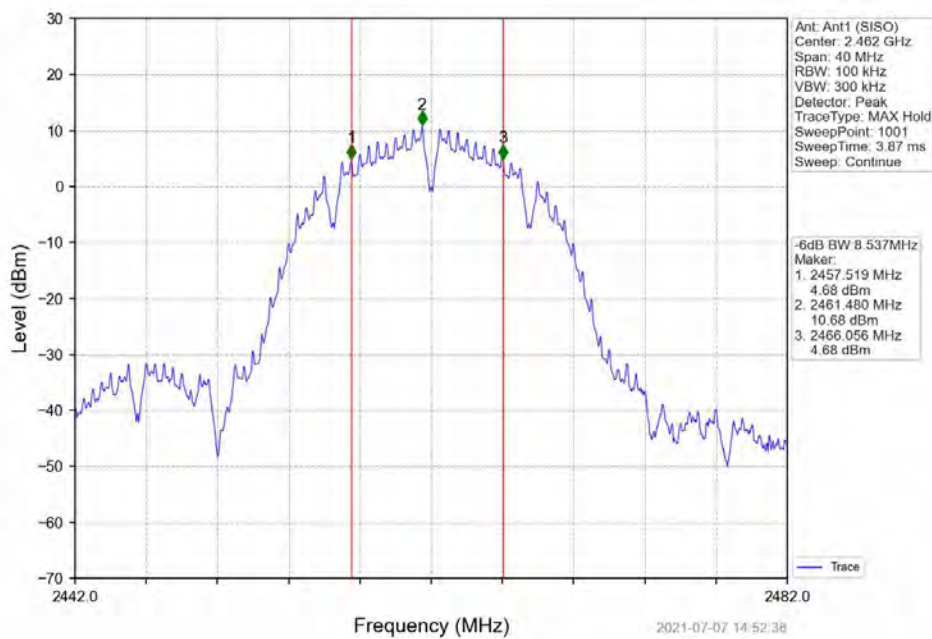


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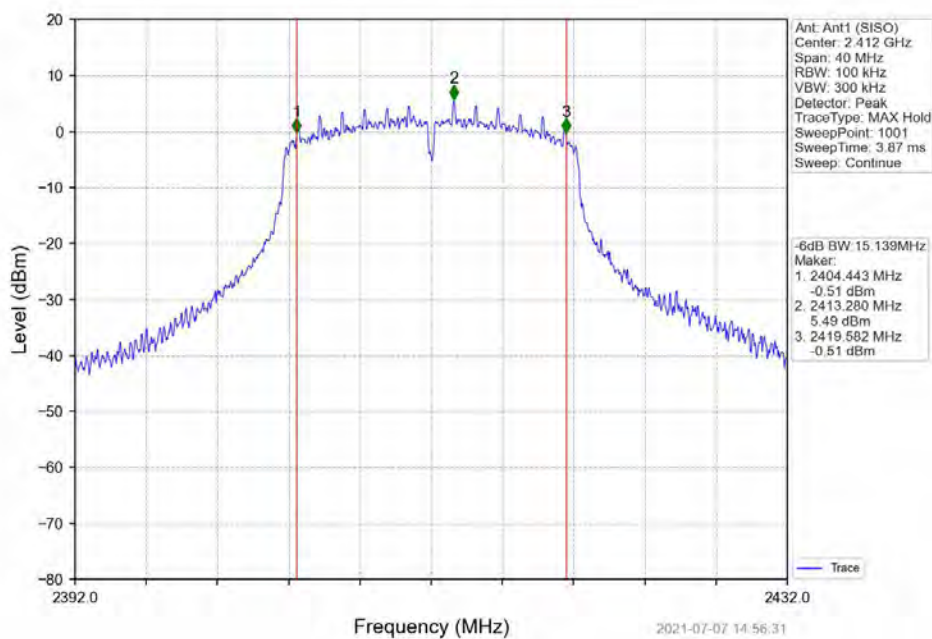
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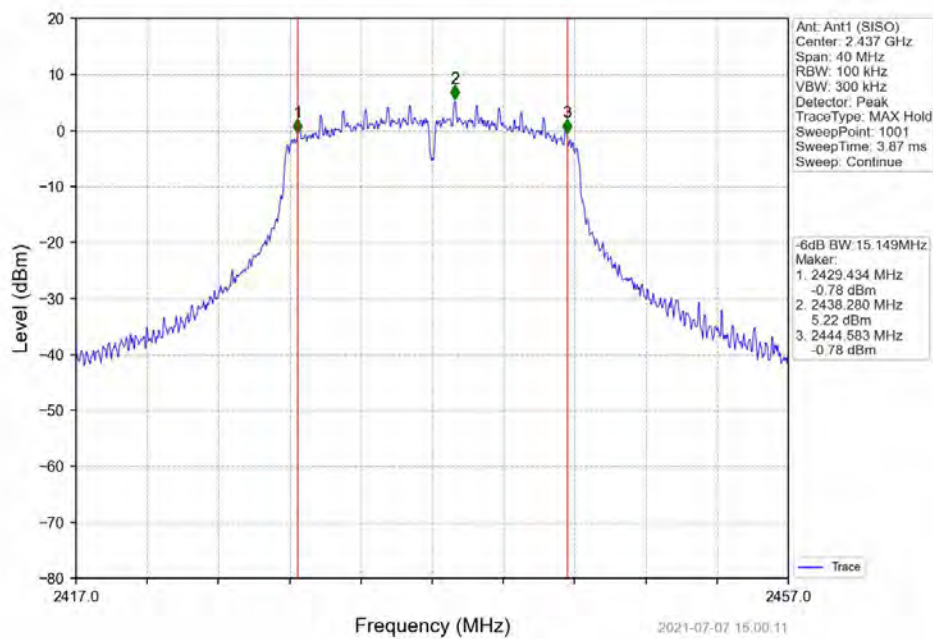
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



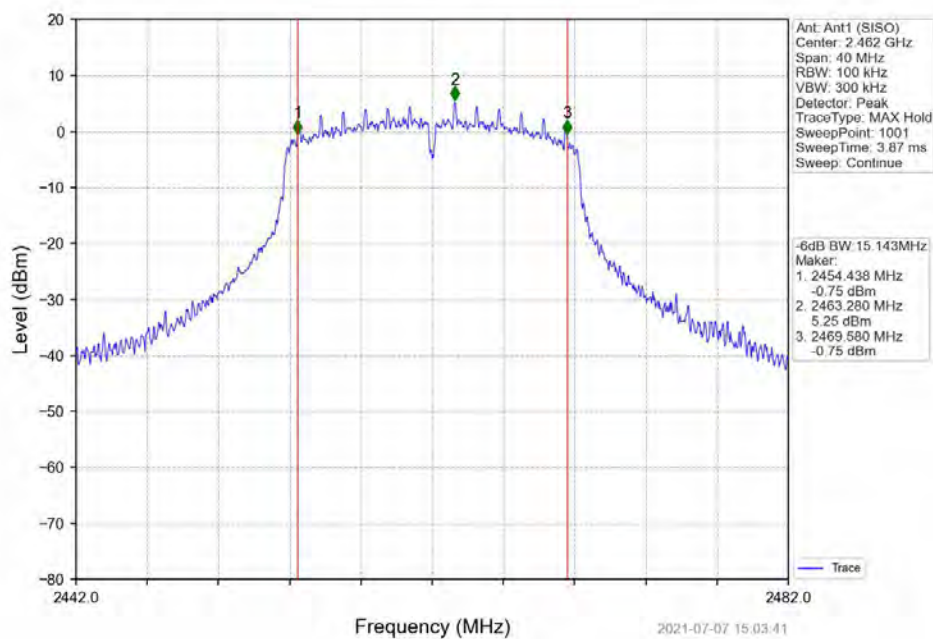
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



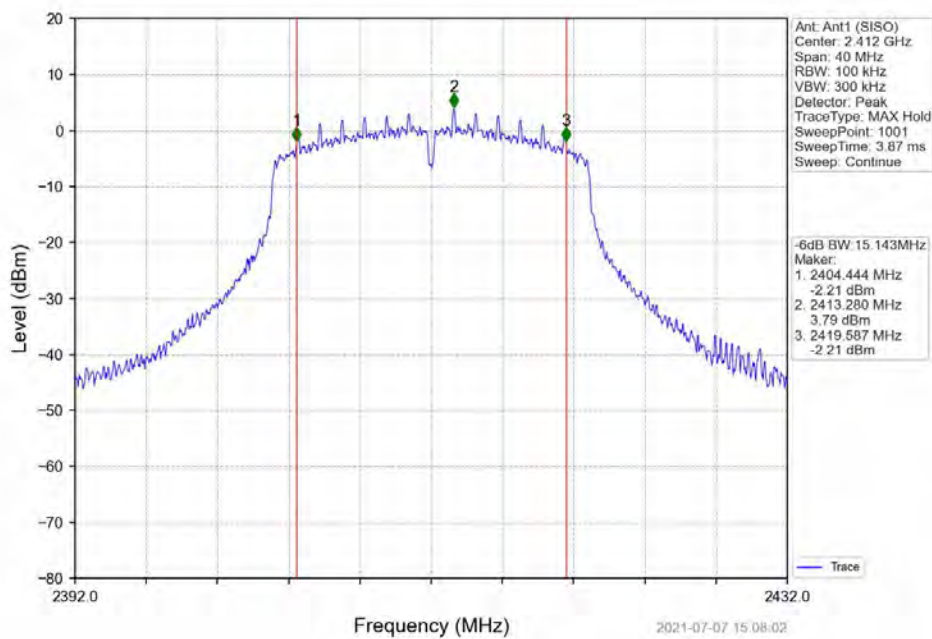
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



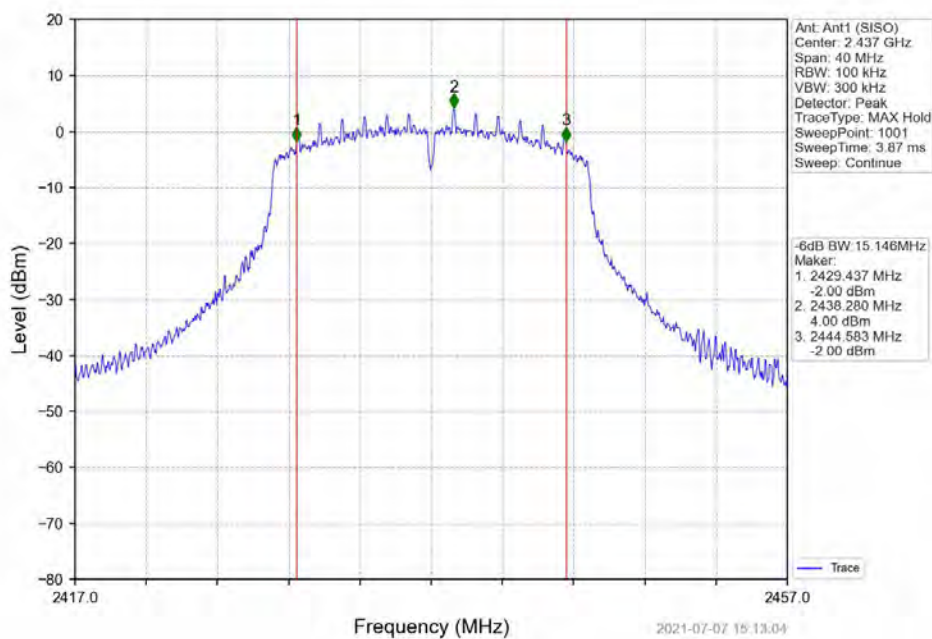
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

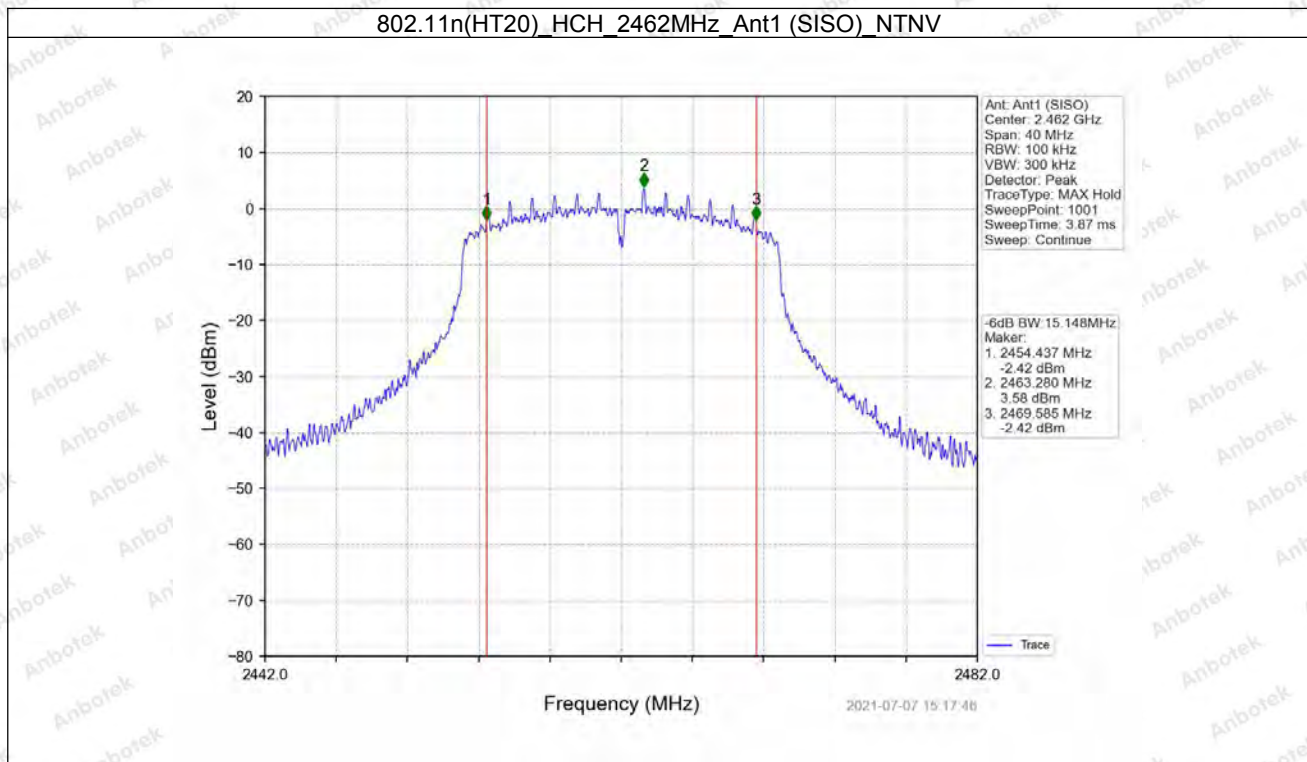


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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Measured Peak Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	21.23	<=30	Pass
		2437	21.60	<=30	Pass
		2462	21.10	<=30	Pass
802.11g	SISO	2412	23.25	<=30	Pass
		2437	23.25	<=30	Pass
		2462	23.14	<=30	Pass
802.11n (HT20)	SISO	2412	21.38	<=30	Pass
		2437	21.64	<=30	Pass
		2462	21.26	<=30	Pass

Note1: Antenna Gain: Ant1: 2.60dBi;

4. Maximum Power Spectral Density

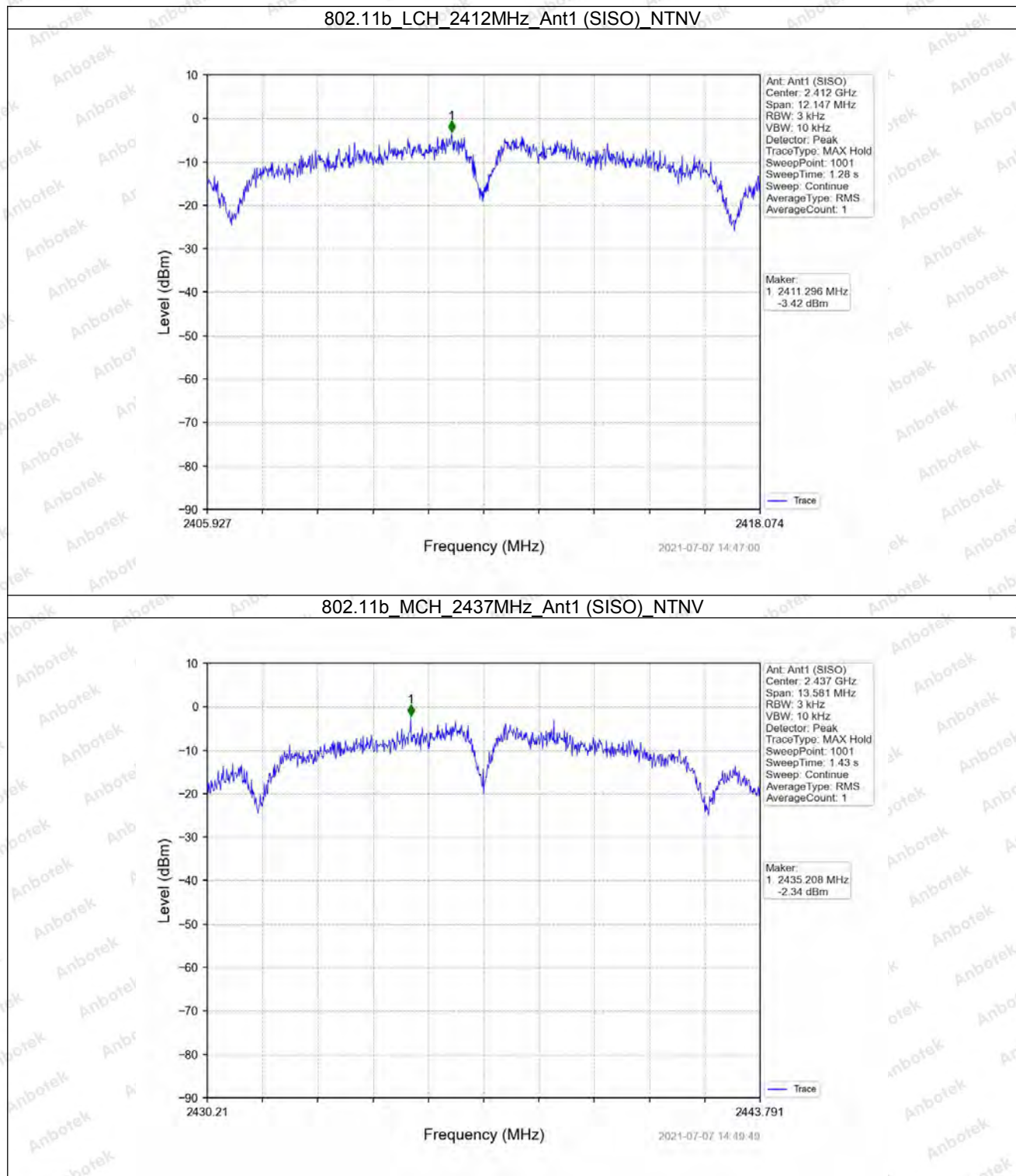
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-3.42	<=8	Pass
		2437	-2.34	<=8	Pass
		2462	-3.25	<=8	Pass
802.11g	SISO	2412	-9.48	<=8	Pass
		2437	-9.23	<=8	Pass
		2462	-9.63	<=8	Pass
802.11n (HT20)	SISO	2412	-11.23	<=8	Pass
		2437	-10.40	<=8	Pass
		2462	-10.48	<=8	Pass

Note1: Antenna Gain: Ant1: 2.60dBi;

4.1.2 Test Graph



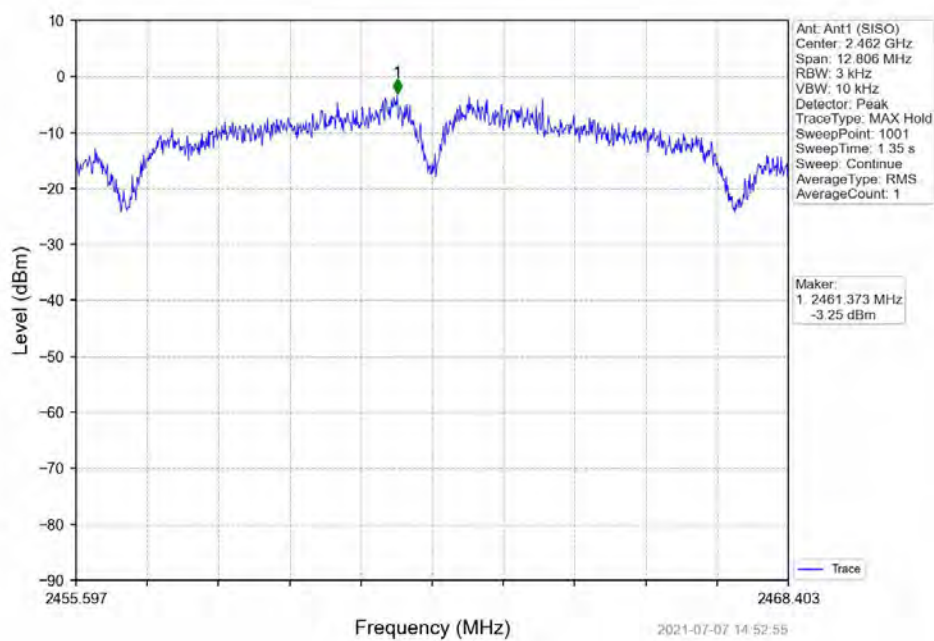
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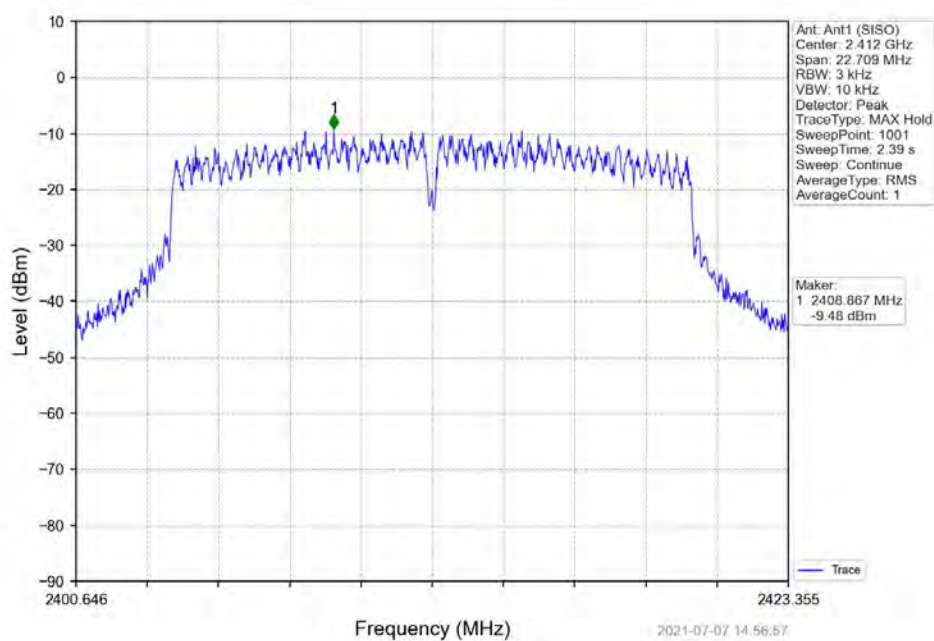
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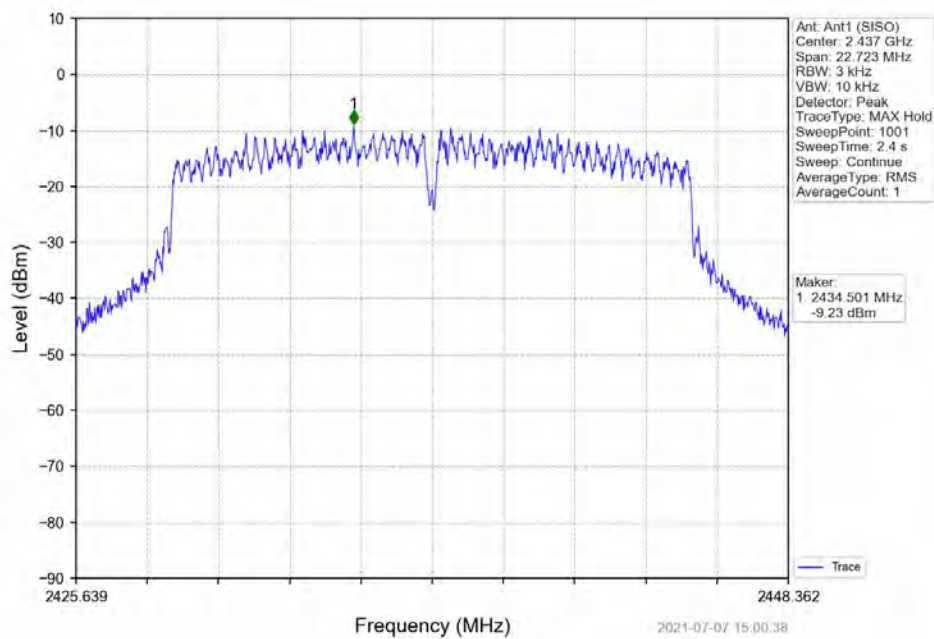
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



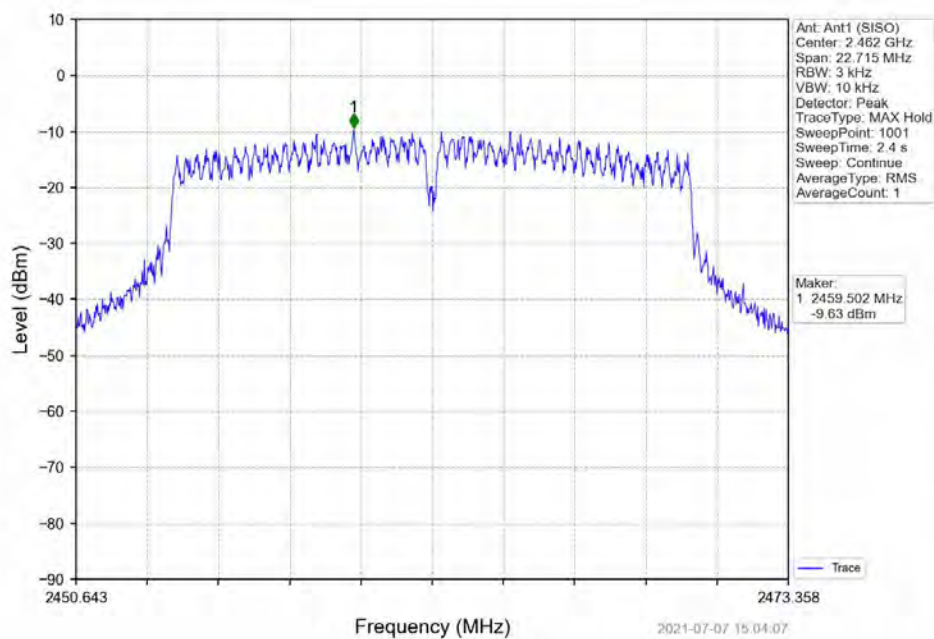
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



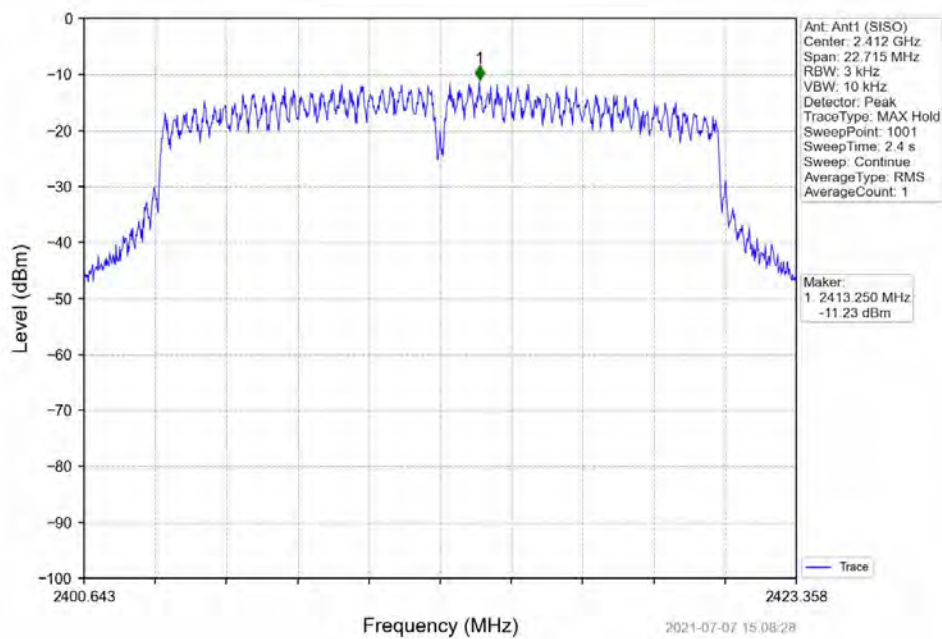
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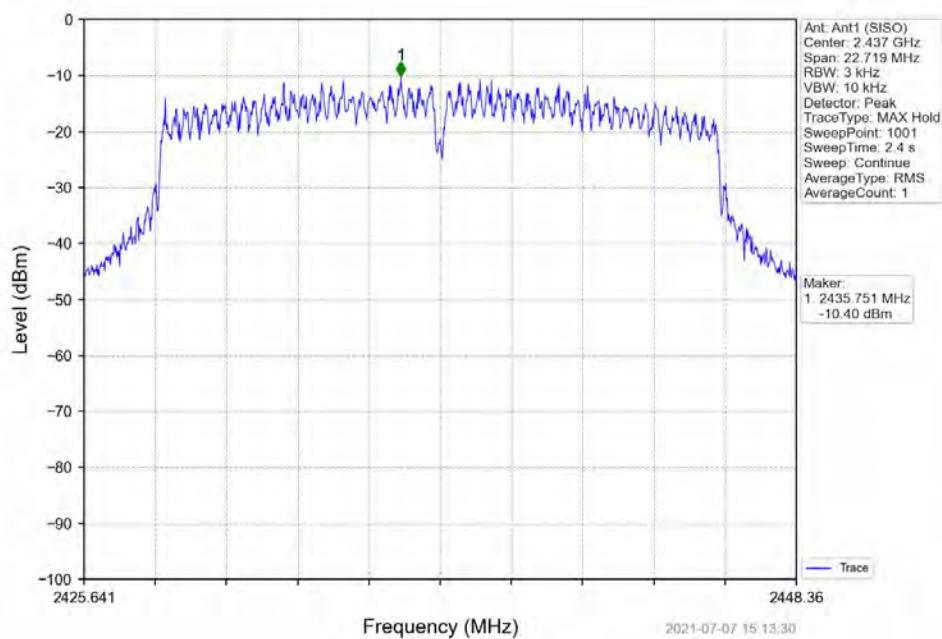
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

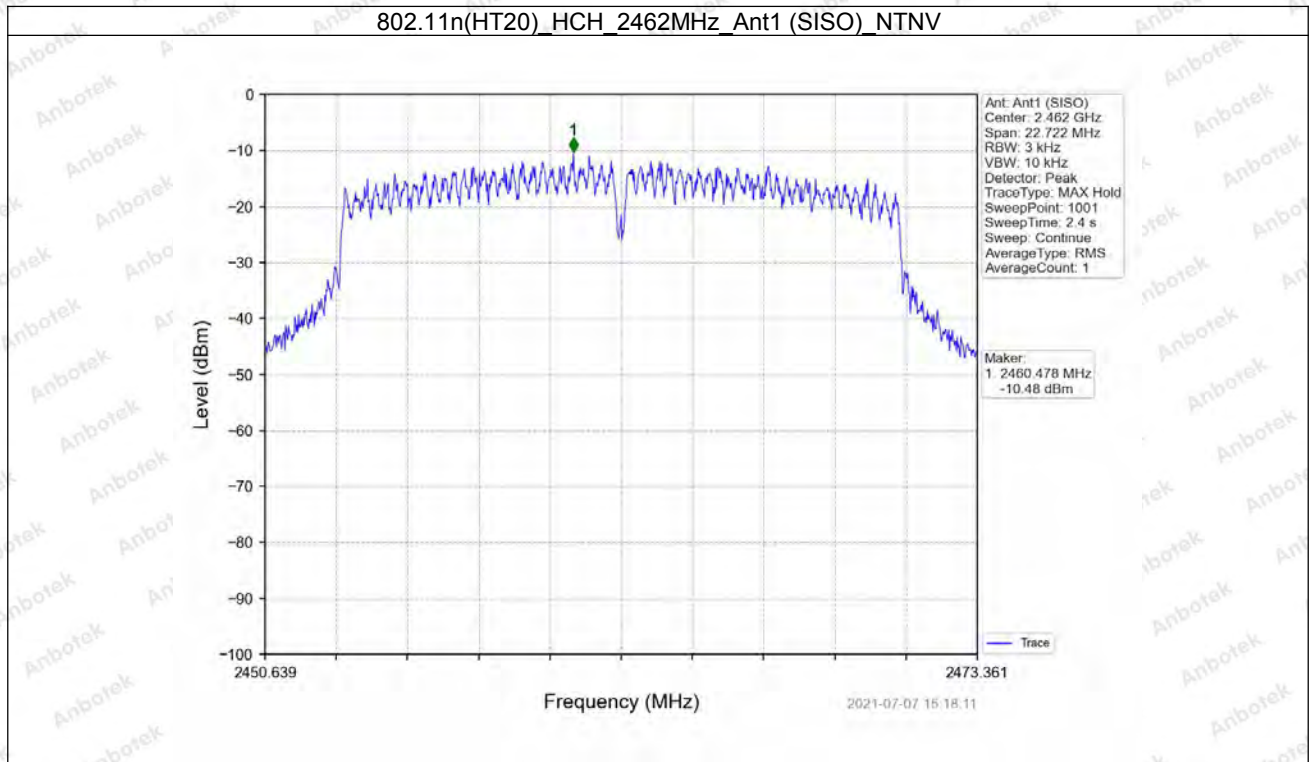


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5. Unwanted Emissions In Non-restricted Frequency Bands

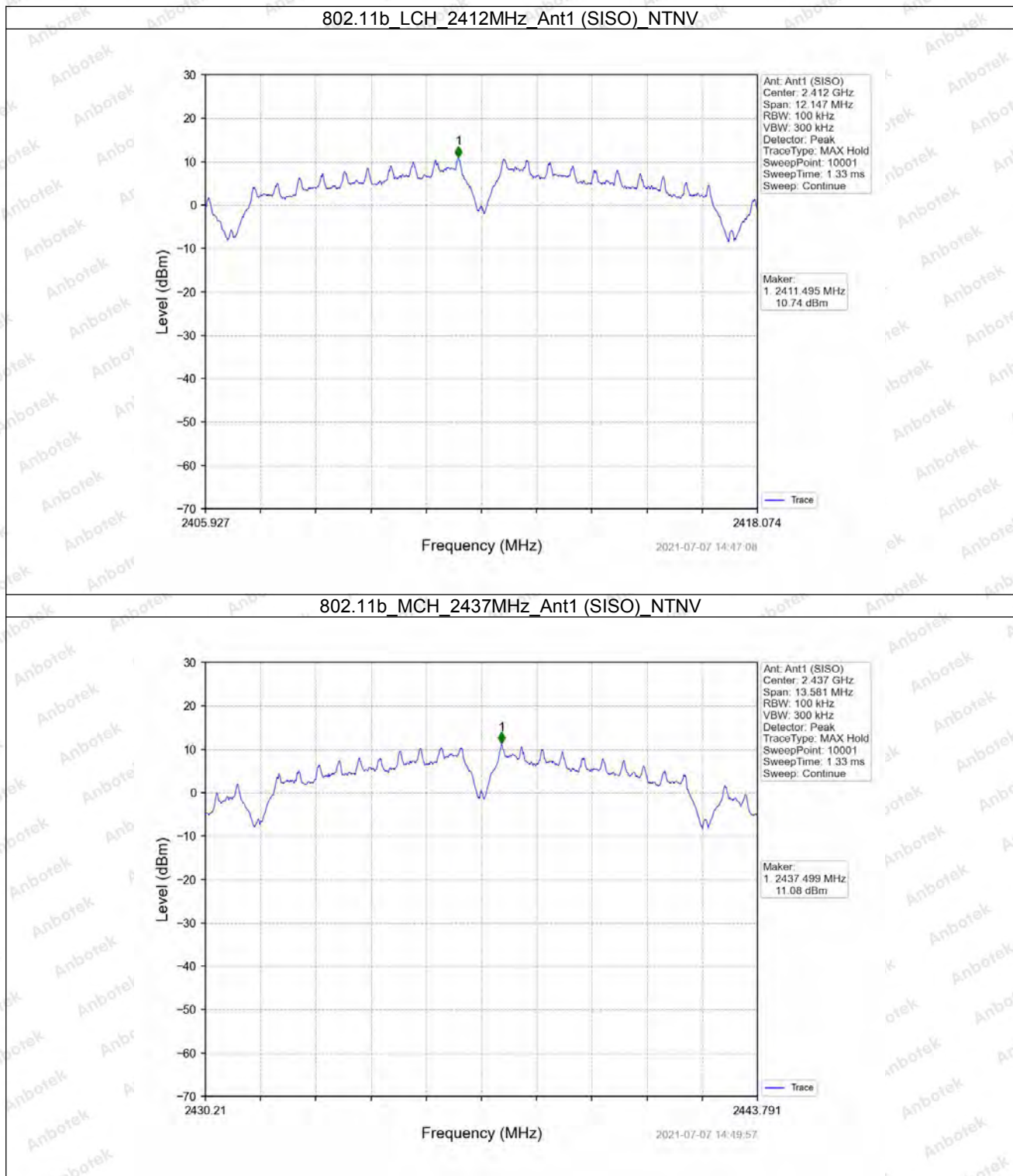
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	10.74
		2437	1	11.08
		2462	1	10.87
802.11g	SISO	2412	1	4.83
		2437	1	5.11
		2462	1	4.77
802.11n (HT20)	SISO	2412	1	3.71
		2437	1	3.85
		2462	1	2.87

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph



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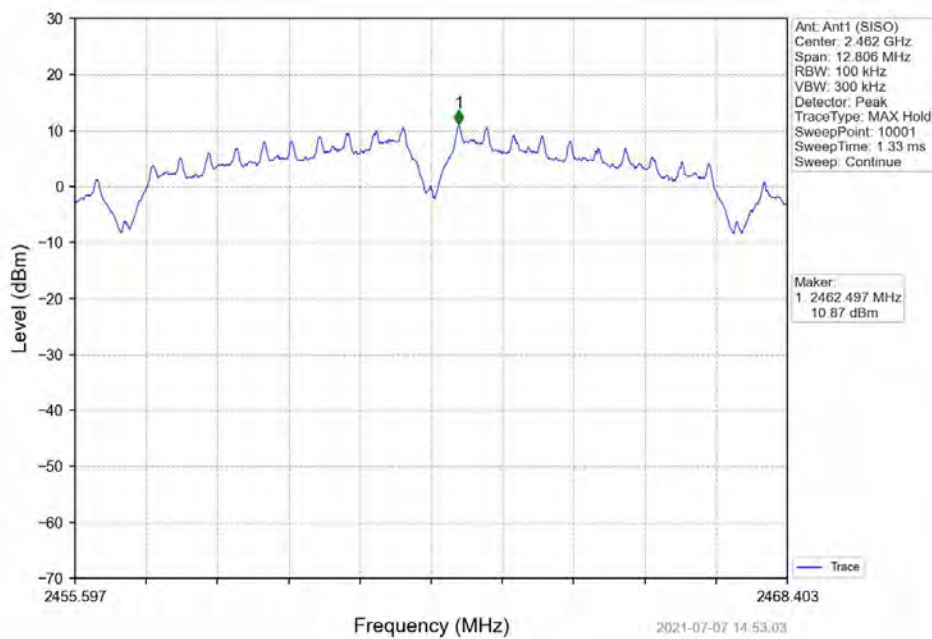


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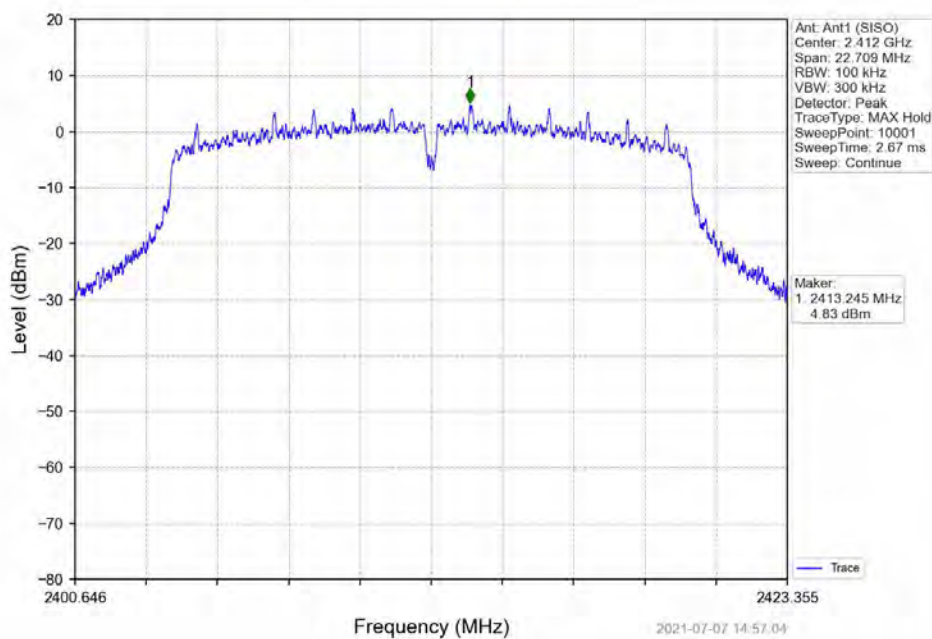
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



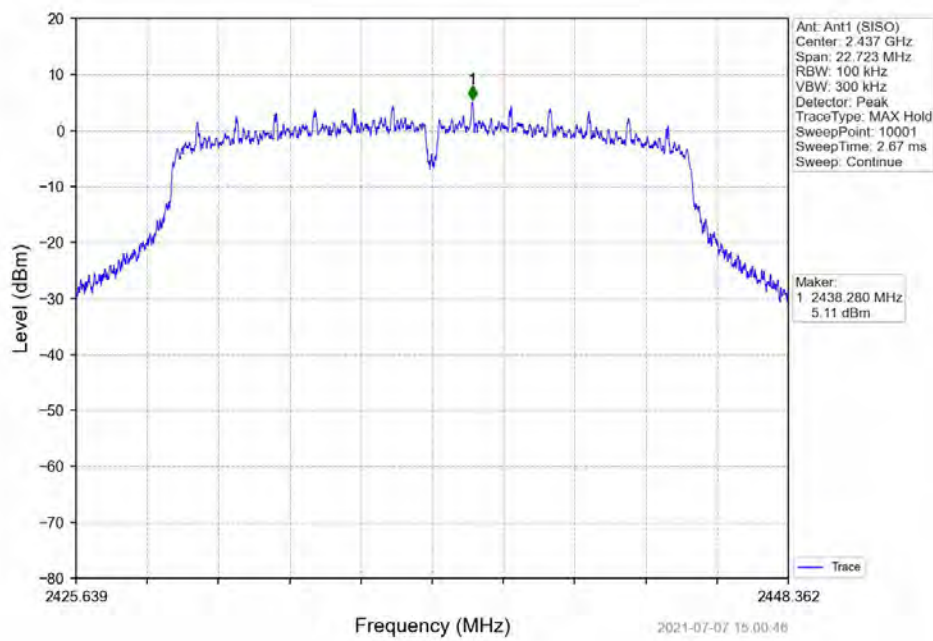
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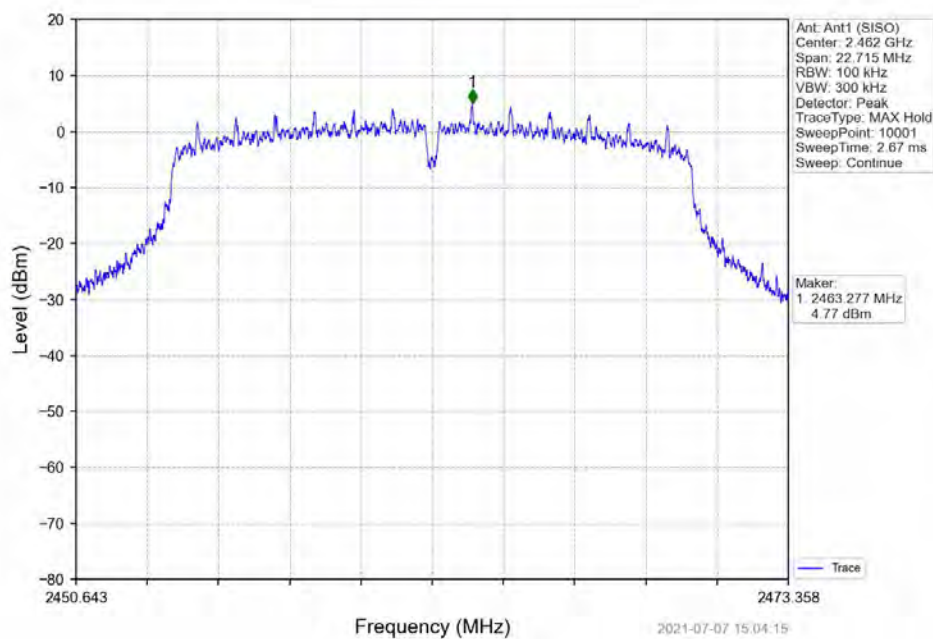
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



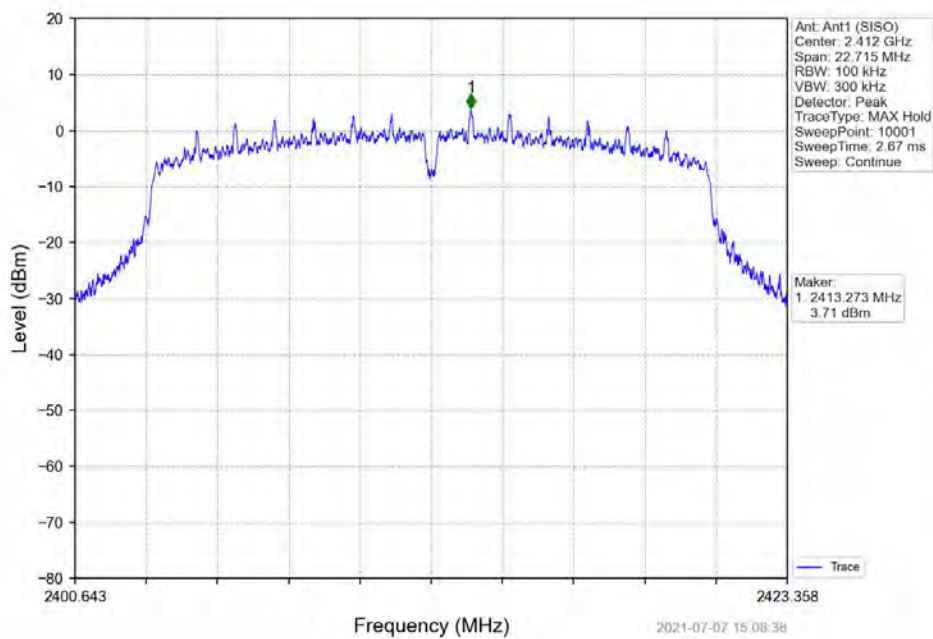
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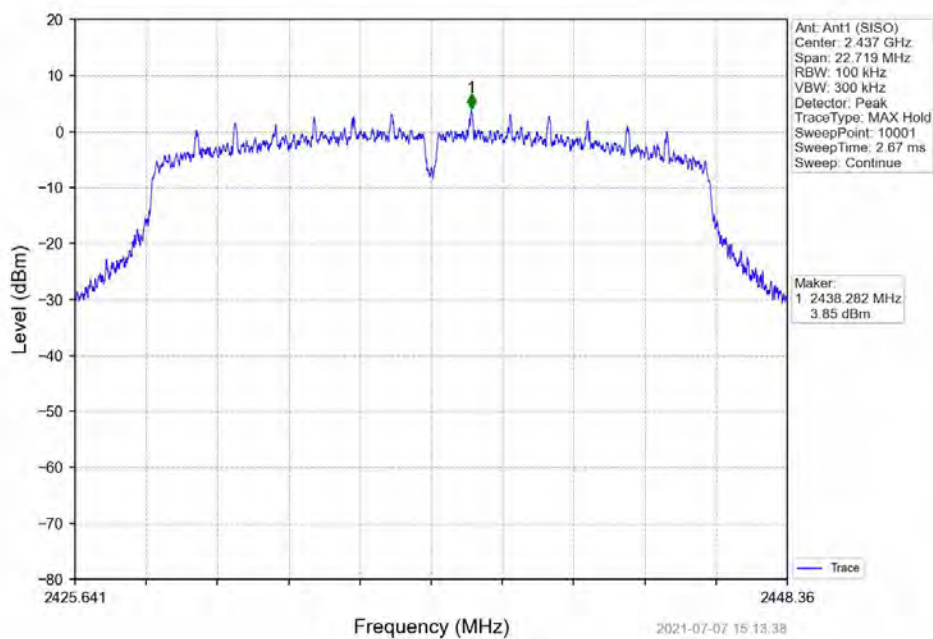
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

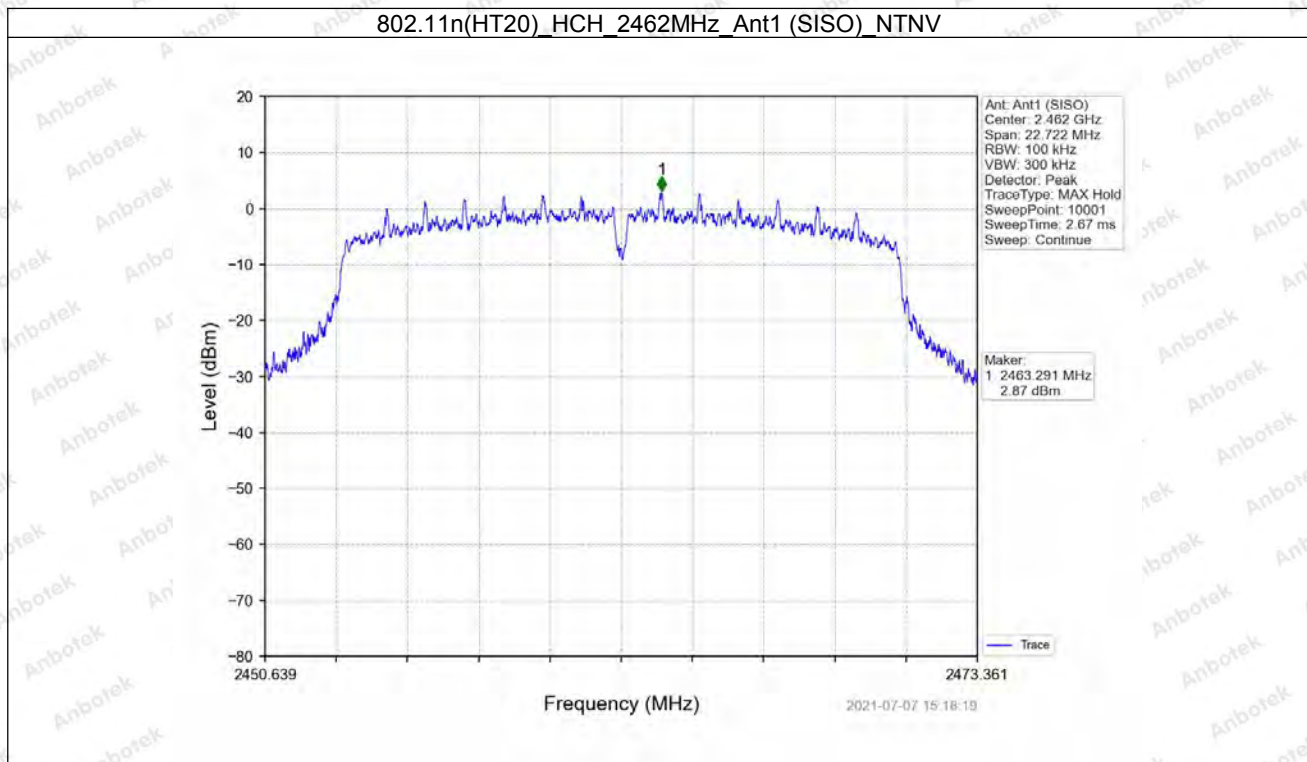


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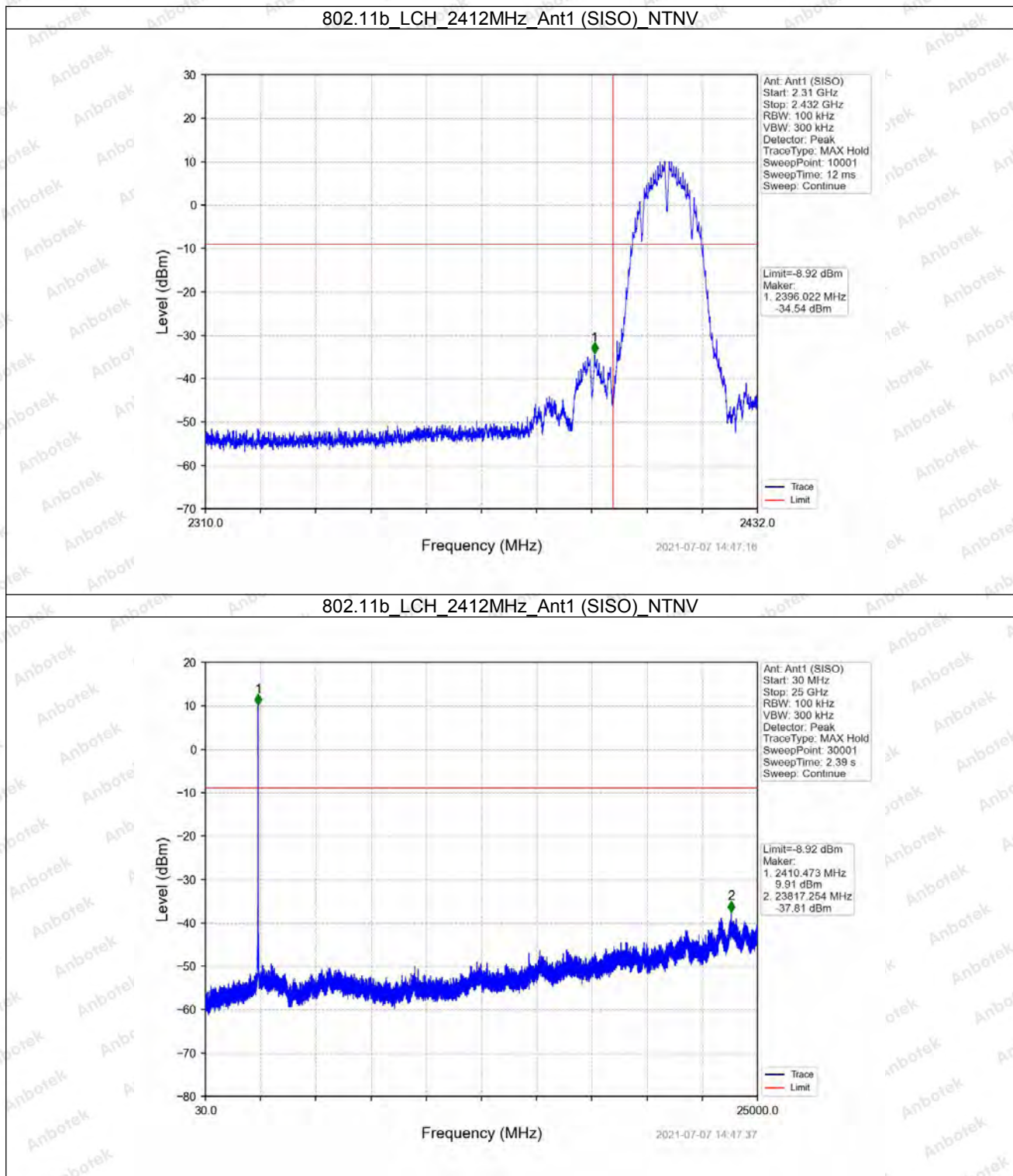
5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	11.08	-8.92	Pass
		2437	1	11.08	-8.92	Pass
		2462	1	11.08	-8.92	Pass
802.11g	SISO	2412	1	5.11	-14.89	Pass
		2437	1	5.11	-14.89	Pass
		2462	1	5.11	-14.89	Pass
802.11n (HT20)	SISO	2412	1	3.85	-16.15	Pass
		2437	1	3.85	-16.15	Pass
		2462	1	3.85	-16.15	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.2.2 Test Graph



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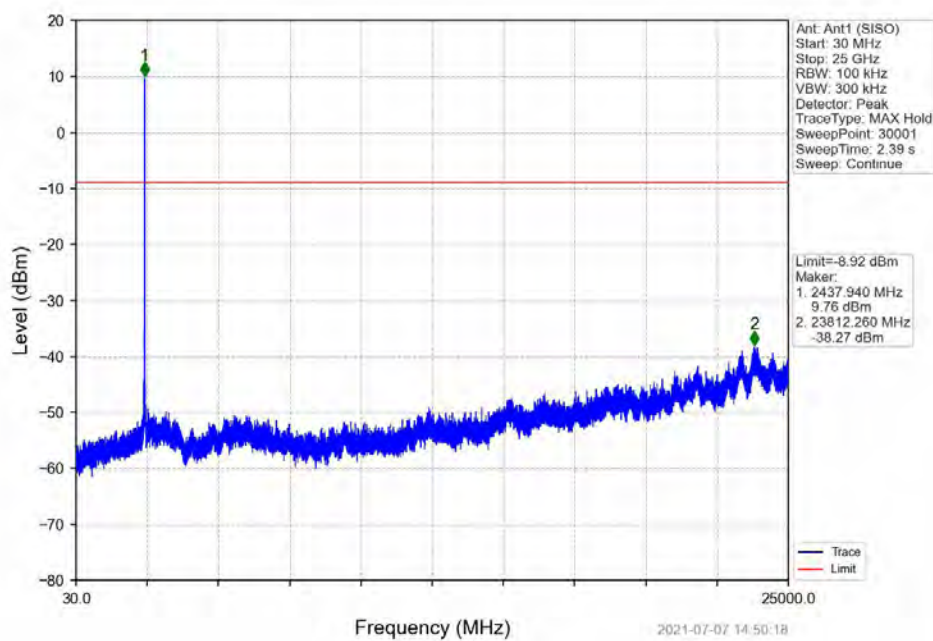


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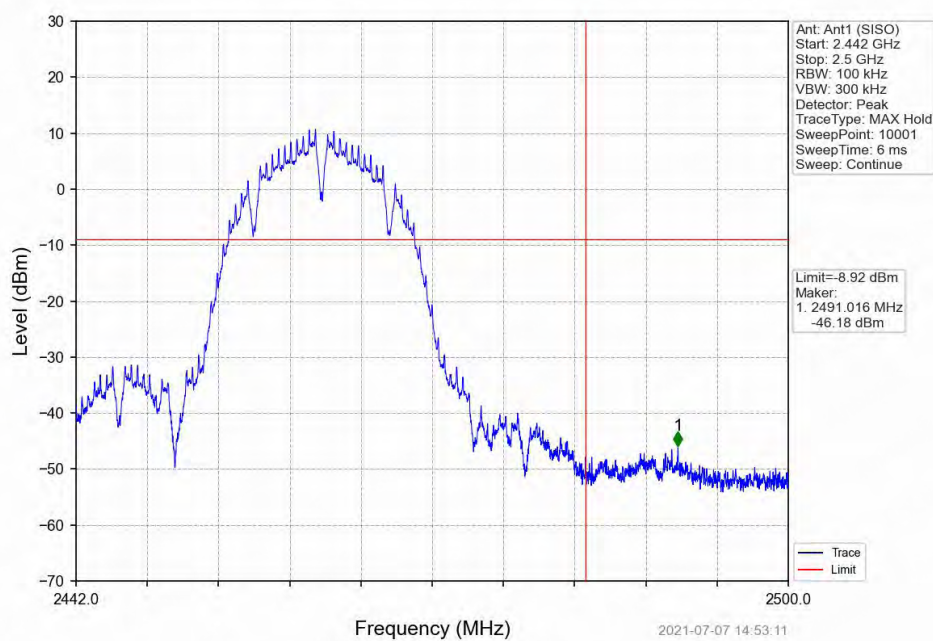
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



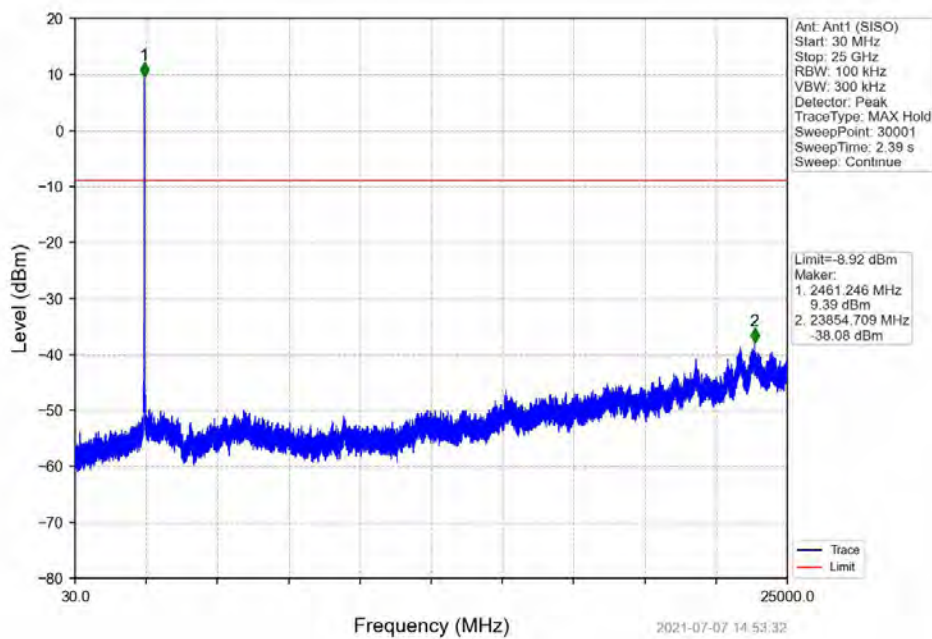
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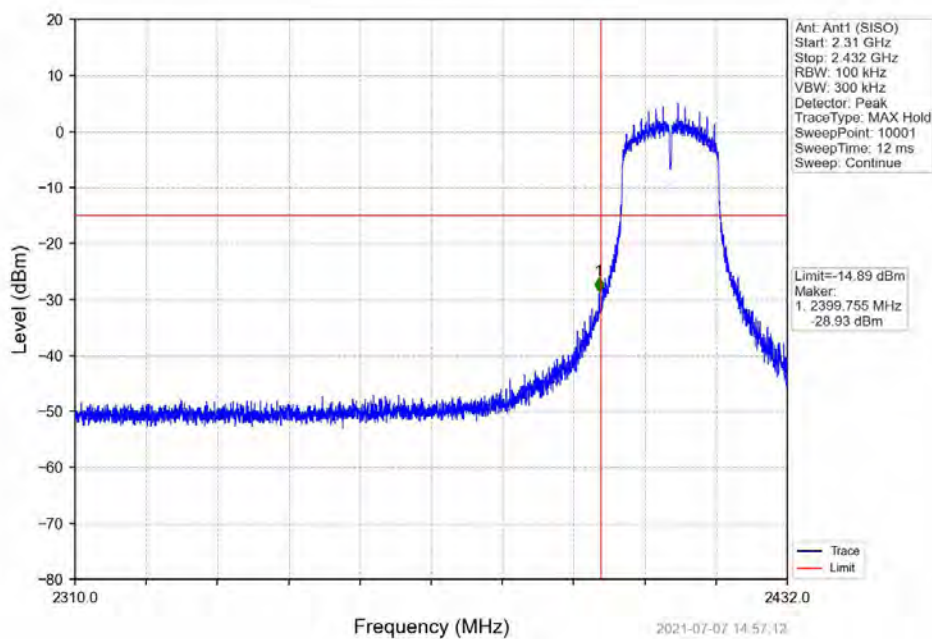
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



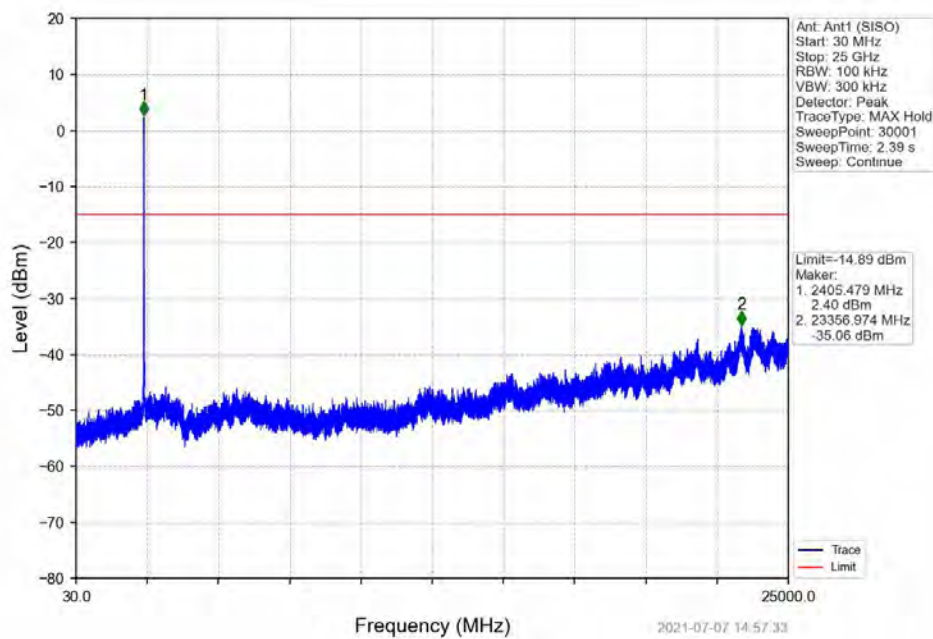
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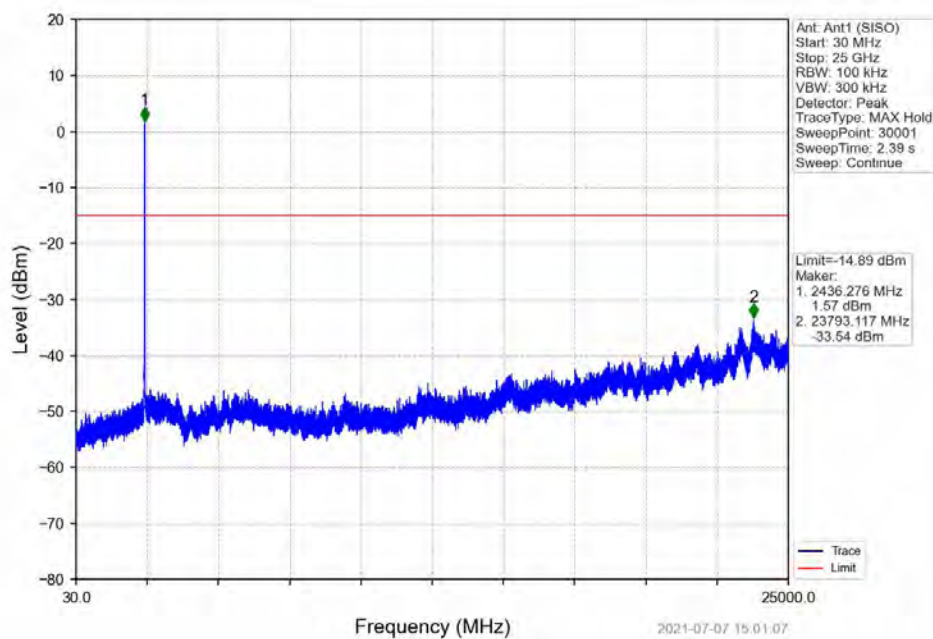
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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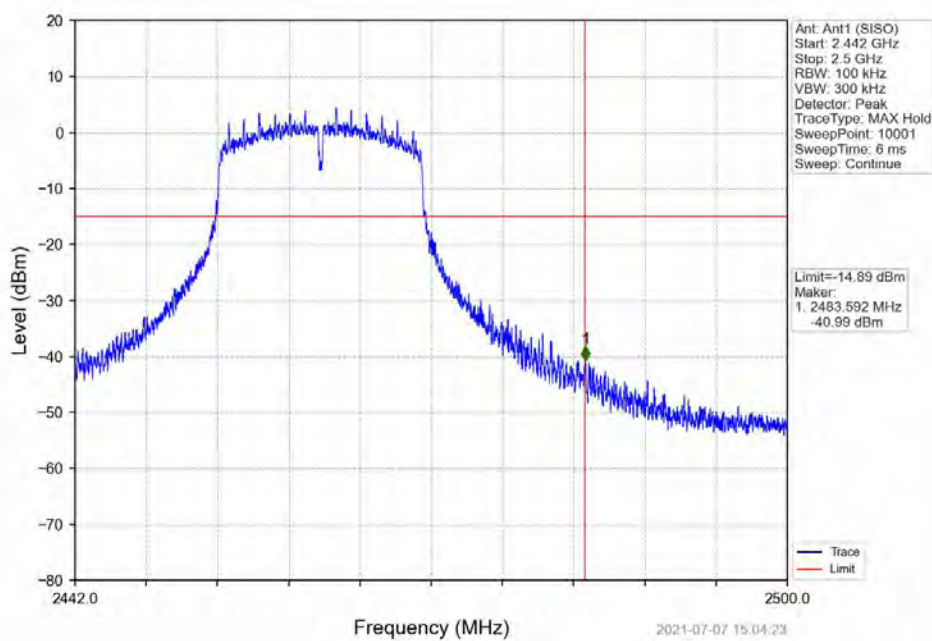


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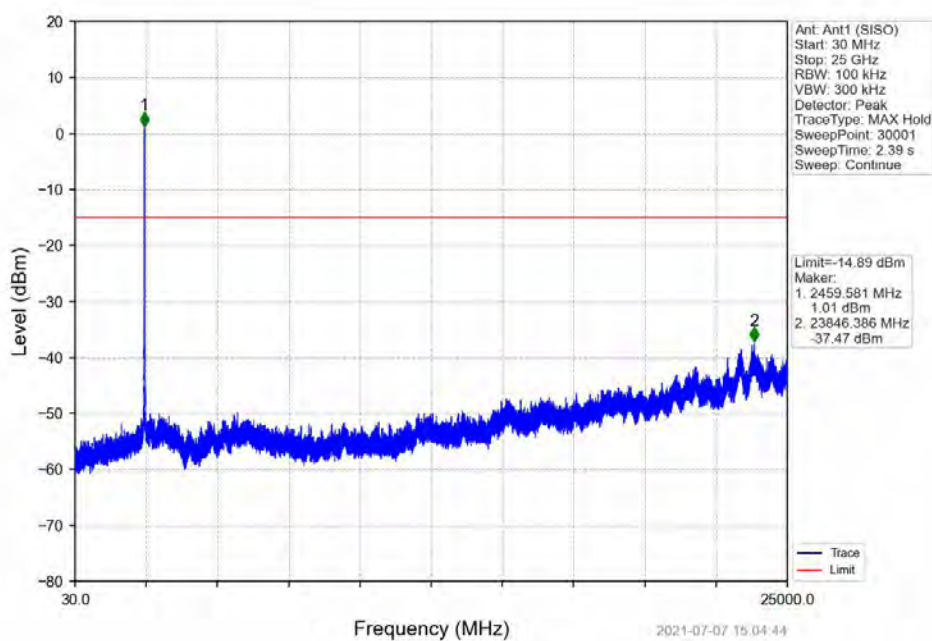
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



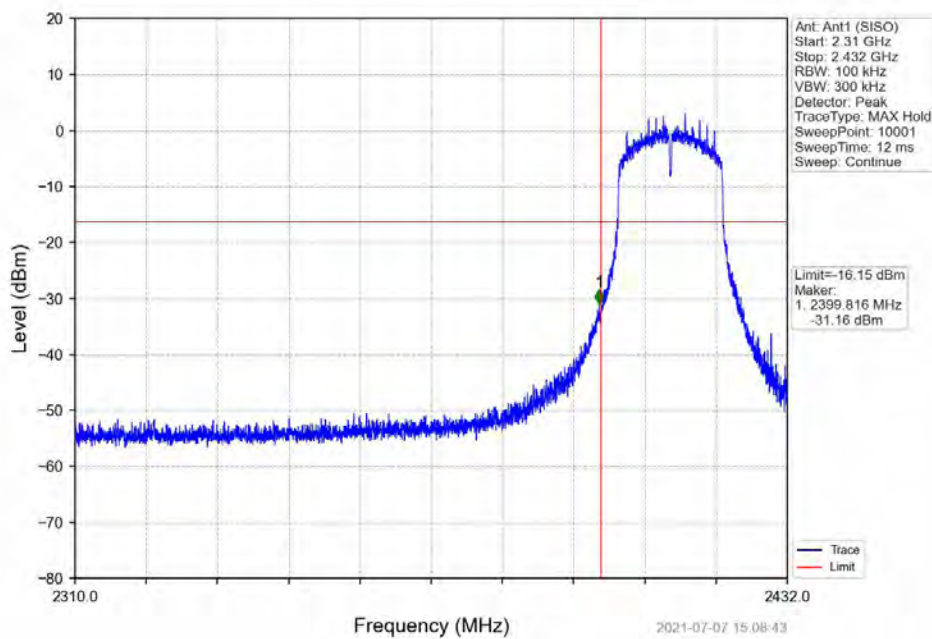
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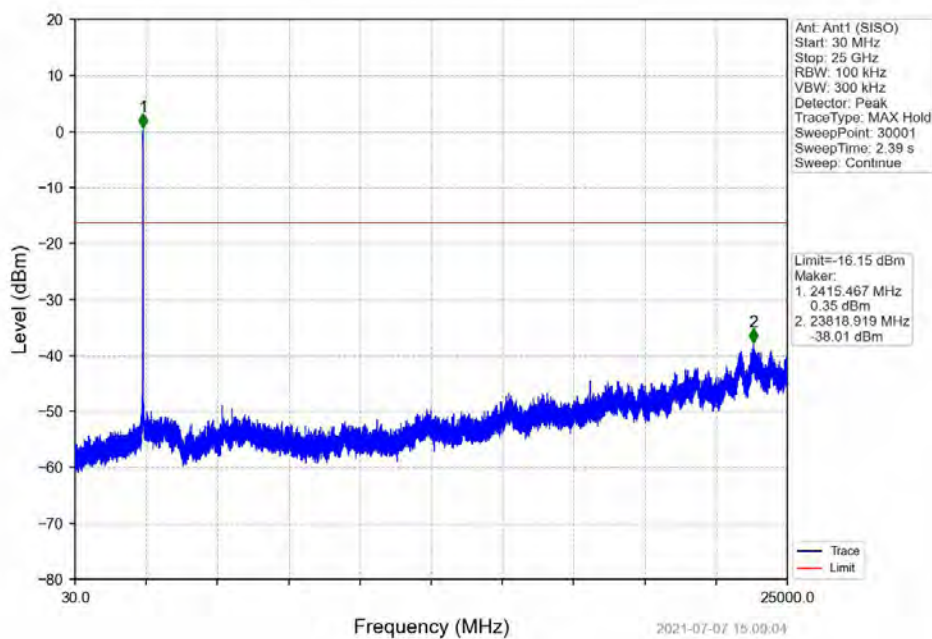
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



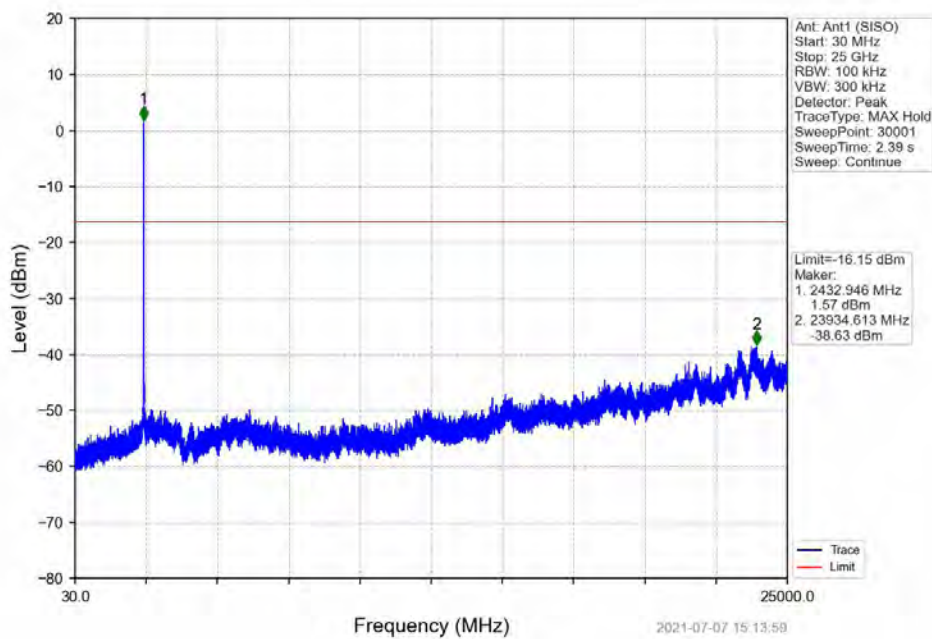
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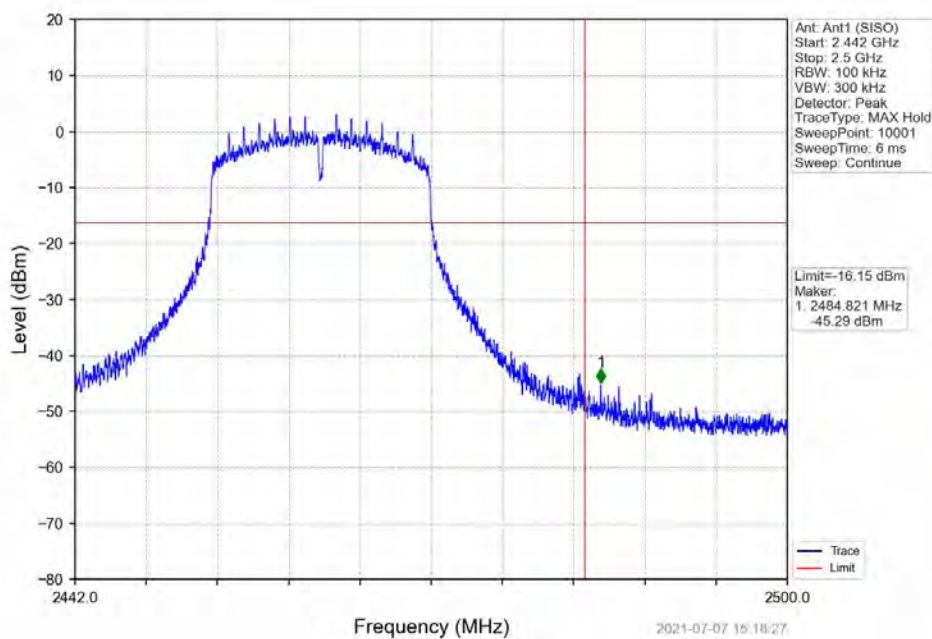
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

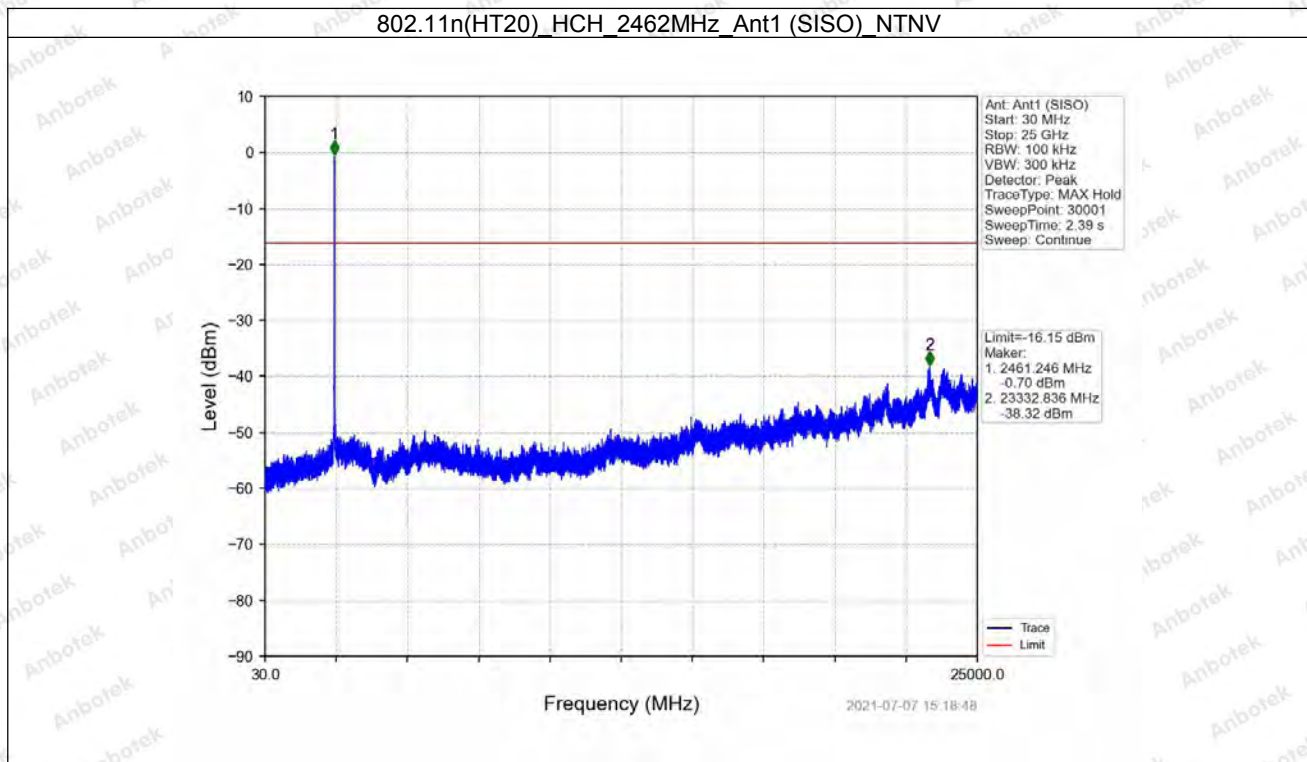


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