



RF Test Data

For

Project No.:	DLE-250928022R
Client:	MIXI, Inc.
Manufacturer:	JENESIS COMPANY LIMITED
Product Description:	FamilyAlbum Digital Frame
Model Number:	MDP01
Test Engineer:	Alisa Song
Test Date:	2025-09-26

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass
Frequency Error	Pass
Form731	Pass



1. Duty Cycle

1.1 Test Result

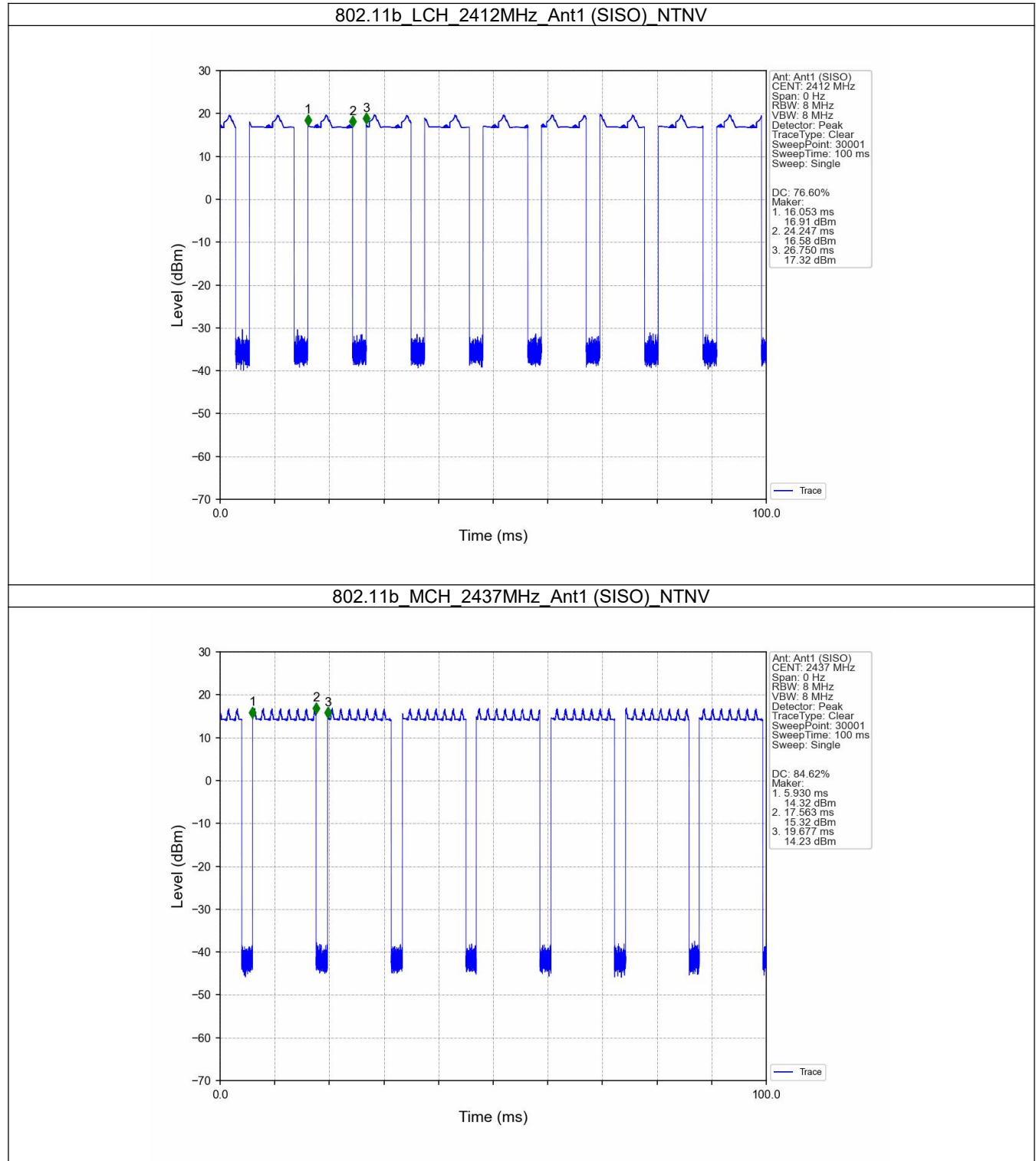
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.194	10.697	76.60	1.16	0.02
		2437	11.633	13.747	84.62	0.73	1.63
		2462	8.194	10.697	76.60	1.16	0.02
802.11g	SISO	2412	1.361	3.862	35.24	4.53	0.00
		2437	1.362	3.863	35.26	4.53	0.00
		2462	1.361	3.863	35.23	4.53	0.00
802.11n (HT20)	SISO	2412	1.148	3.650	31.45	5.02	0.02
		2437	1.149	3.651	31.47	5.02	0.02
		2462	1.149	3.651	31.47	5.02	0.02



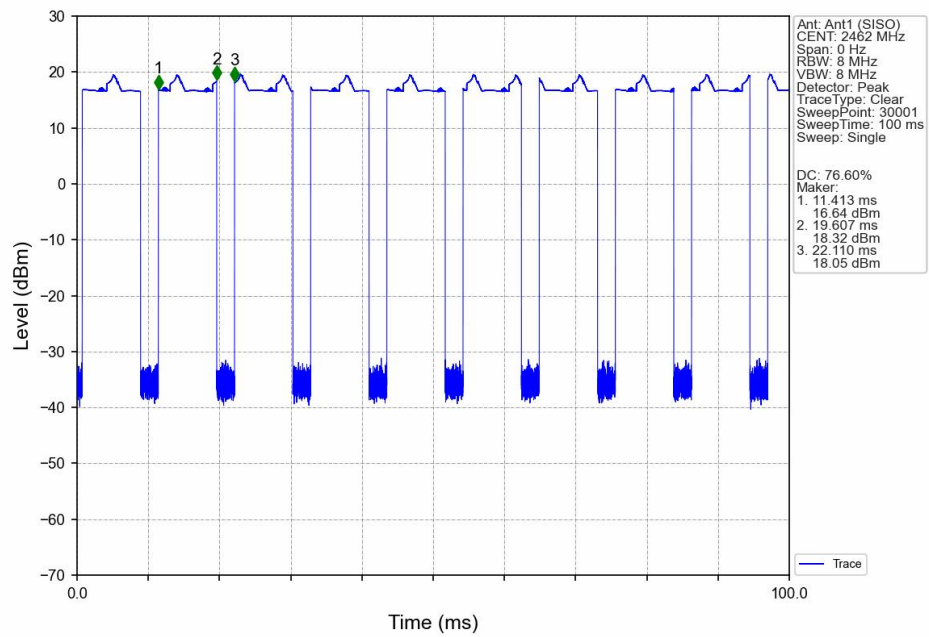
1.2 Test Graph

1.2.1 Ant1

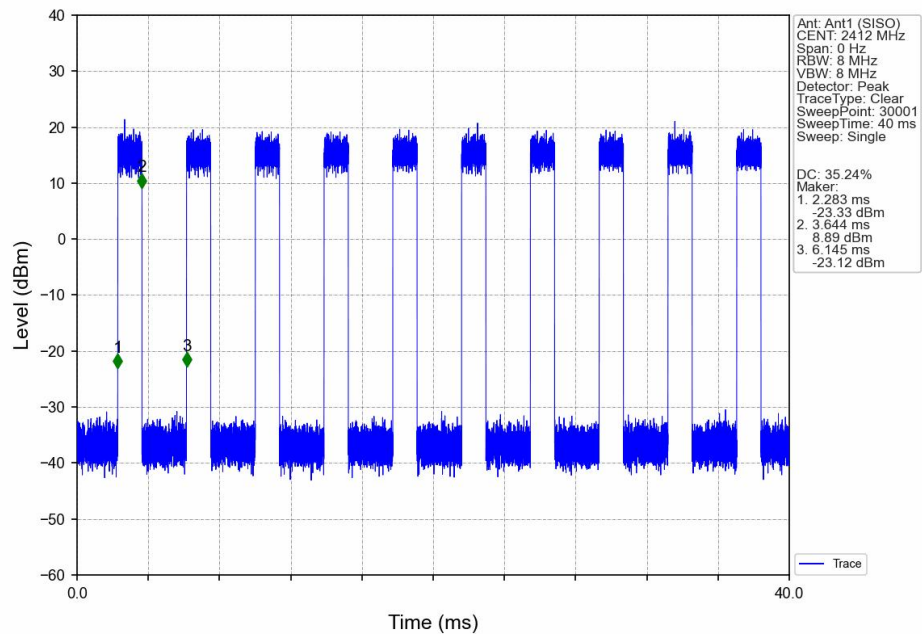




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

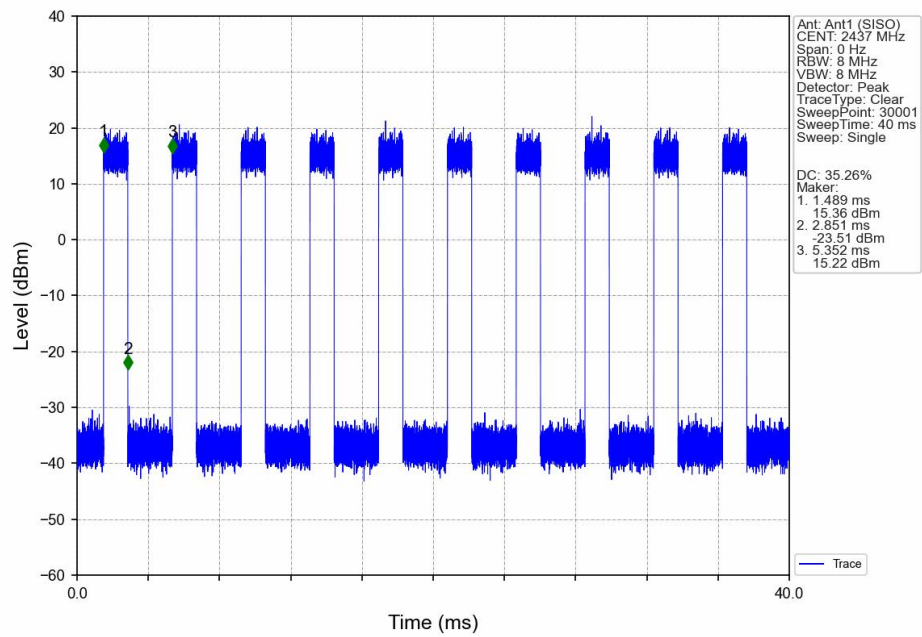


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

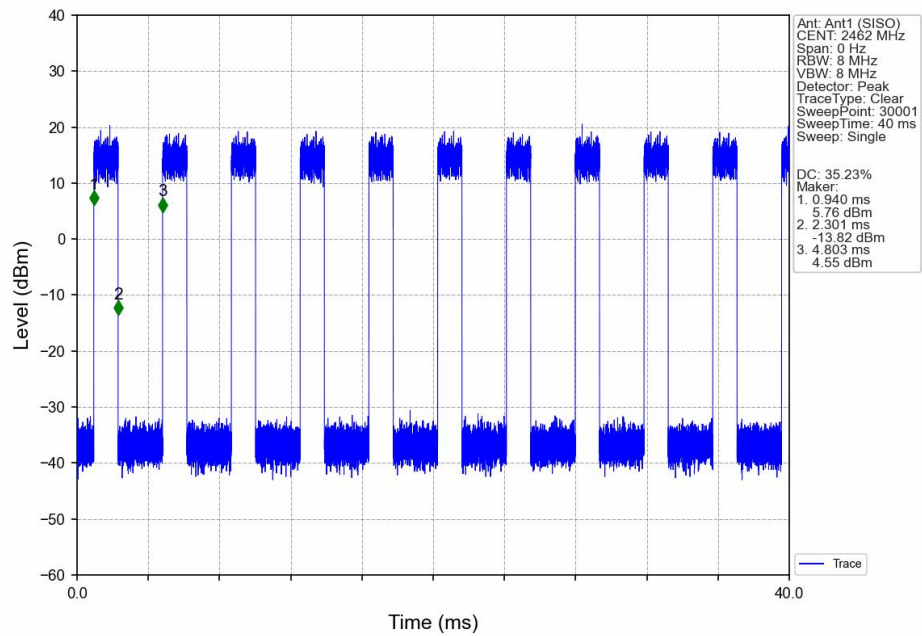




802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

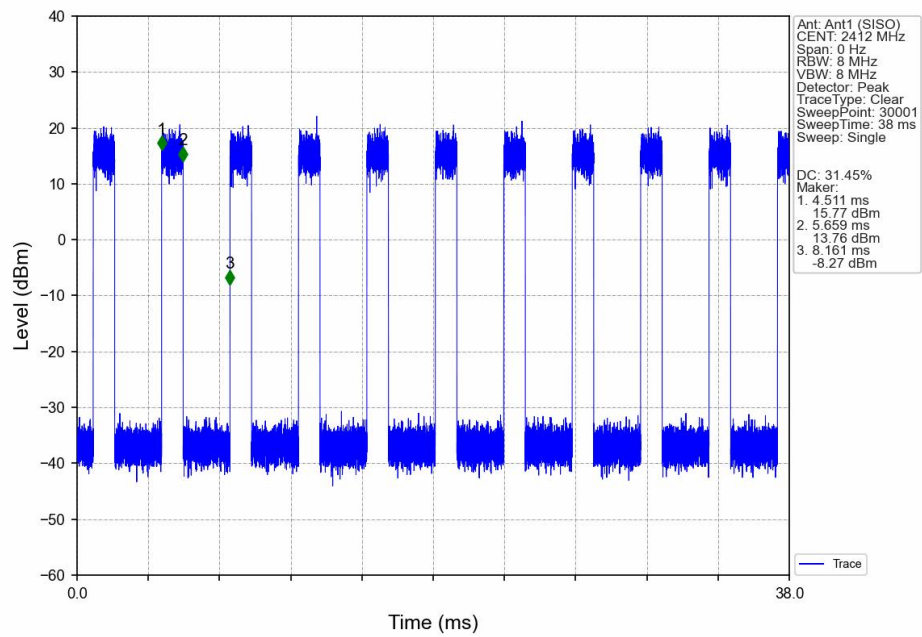


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

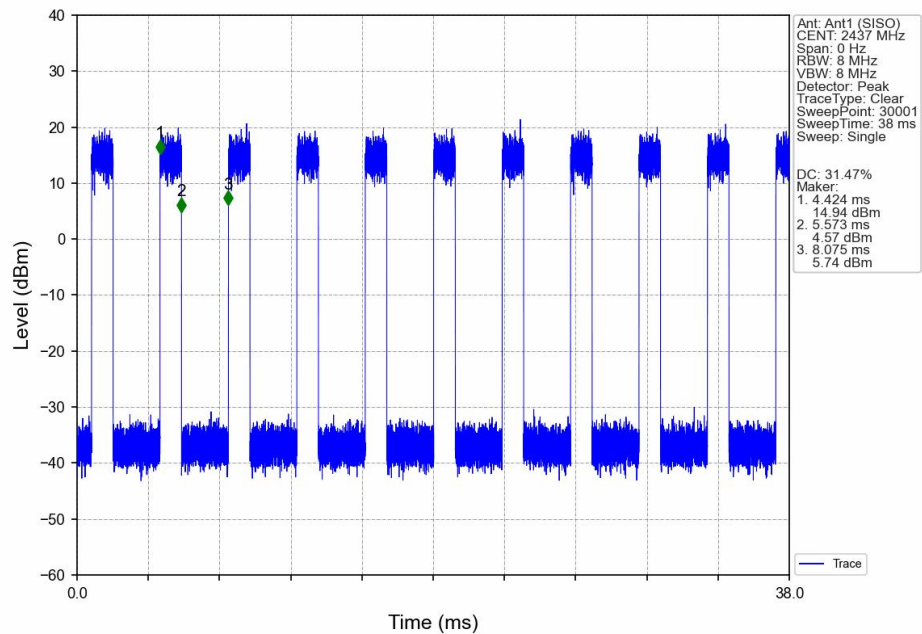




802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

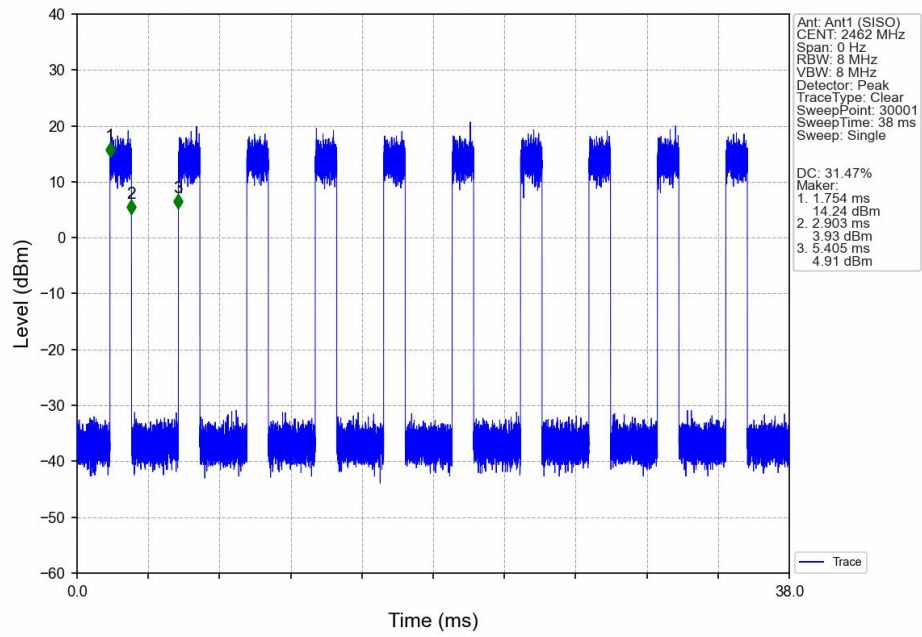


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	15.004	/	Pass
		2437	1	12.346	/	Pass
		2462	1	12.397	/	Pass
802.11g	SISO	2412	1	16.725	/	Pass
		2437	1	16.720	/	Pass
		2462	1	16.708	/	Pass
802.11n (HT20)	SISO	2412	1	17.623	/	Pass
		2437	1	17.619	/	Pass
		2462	1	17.611	/	Pass

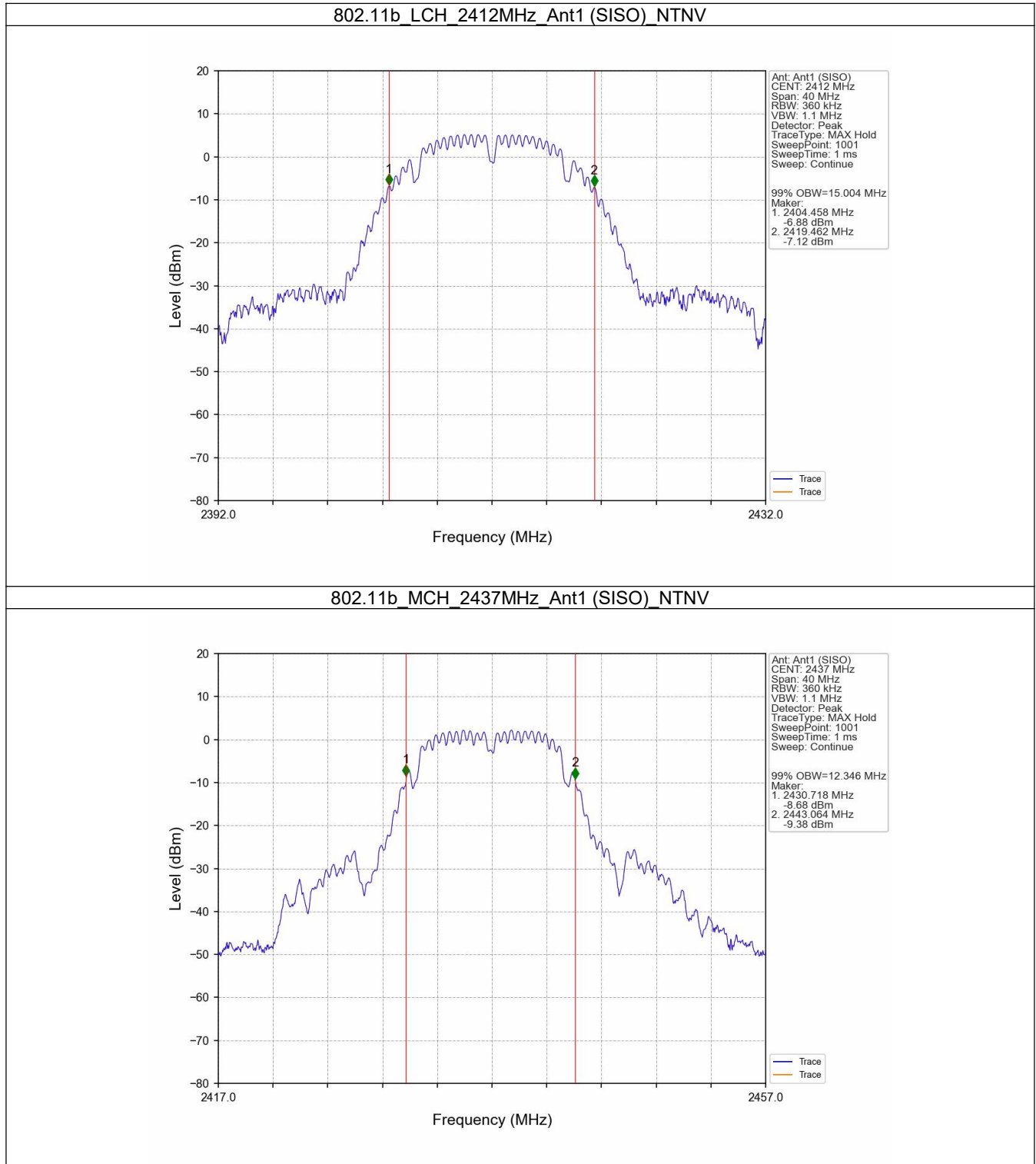
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	11.246	≥ 0.5	Pass
		2437	1	10.147	≥ 0.5	Pass
		2462	1	10.130	≥ 0.5	Pass
802.11g	SISO	2412	1	16.515	≥ 0.5	Pass
		2437	1	16.441	≥ 0.5	Pass
		2462	1	16.440	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.558	≥ 0.5	Pass
		2437	1	17.462	≥ 0.5	Pass
		2462	1	17.501	≥ 0.5	Pass



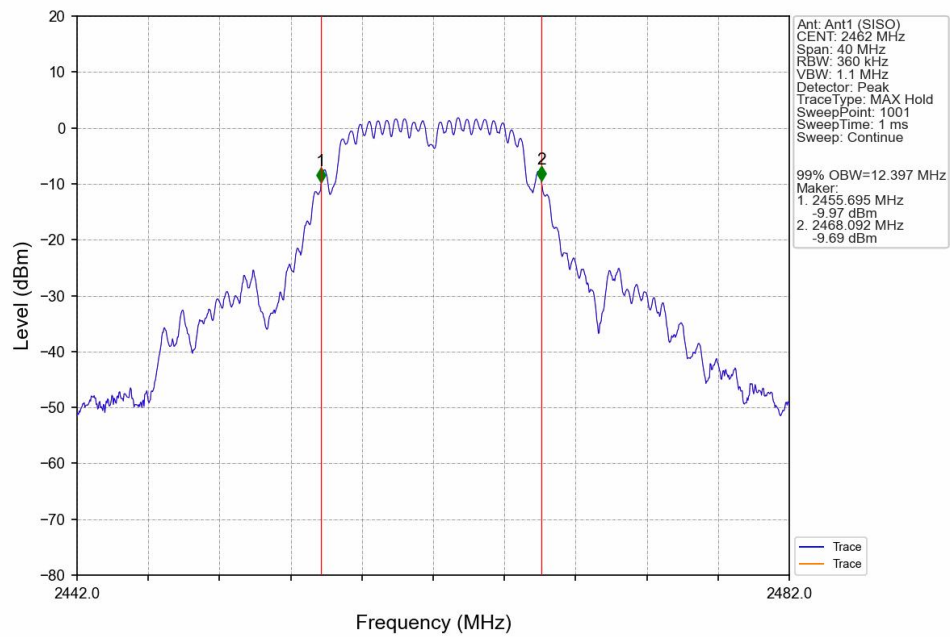
2.2 Test Graph

2.2.1 OBW

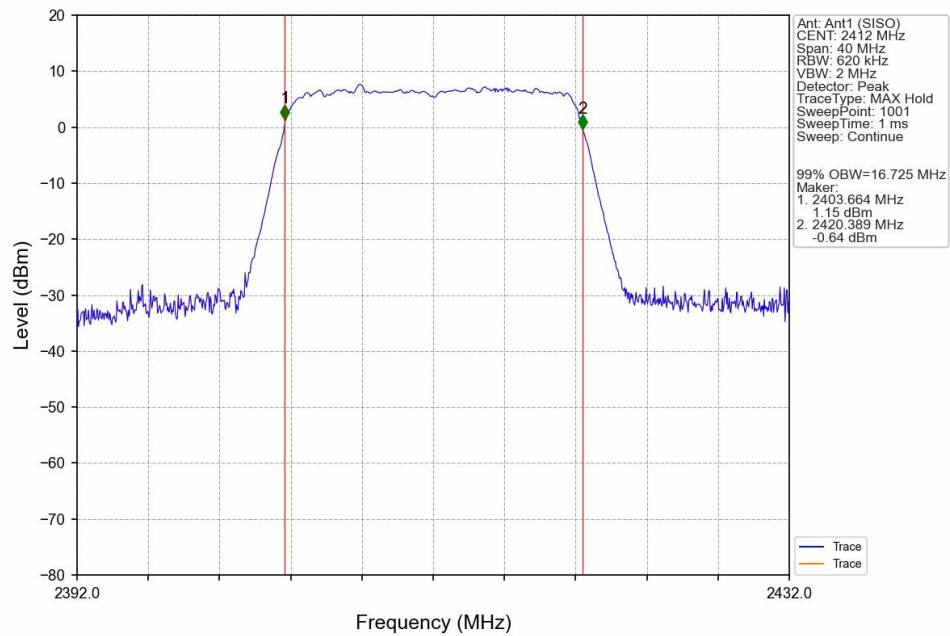




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

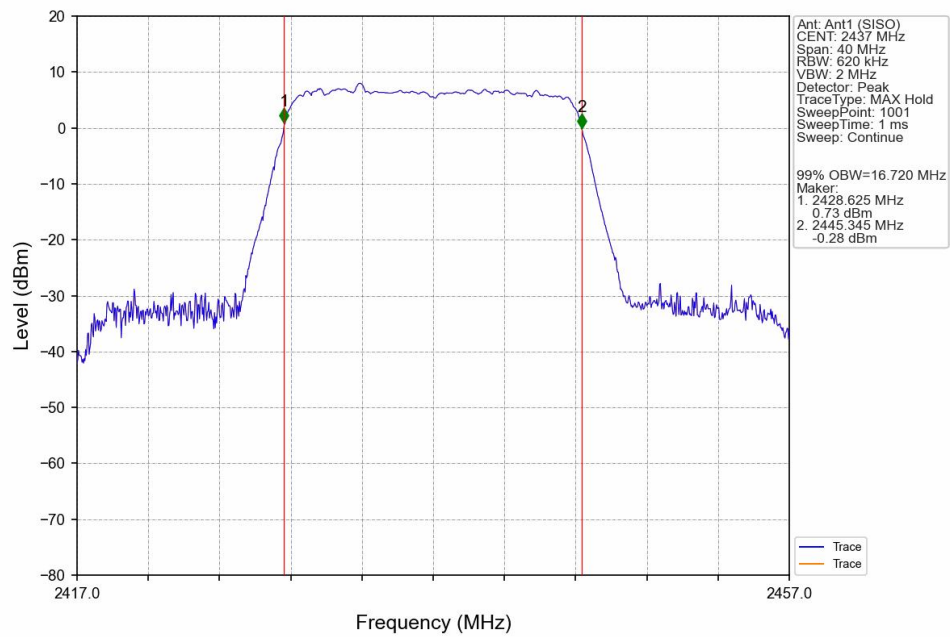


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

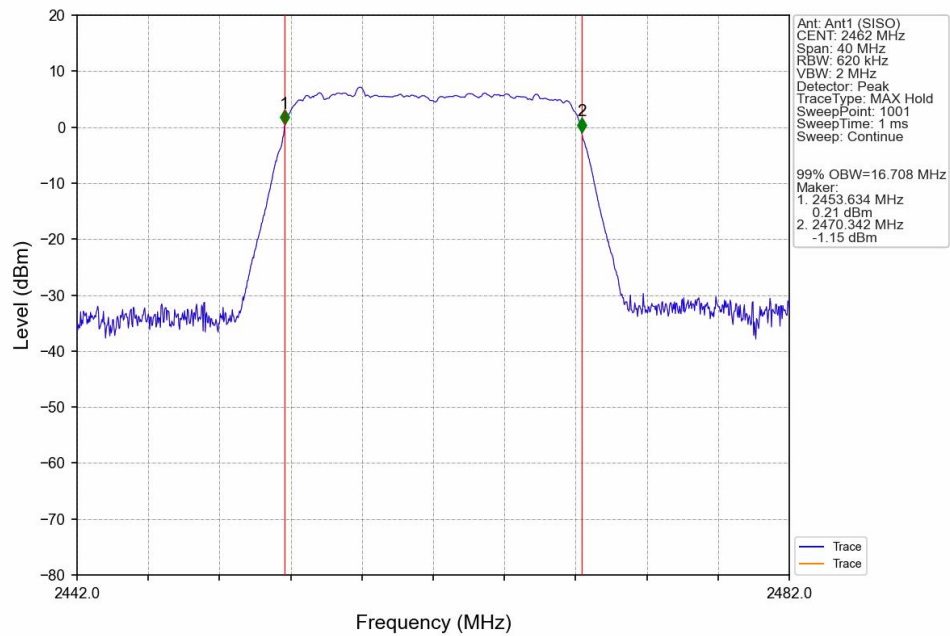




802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

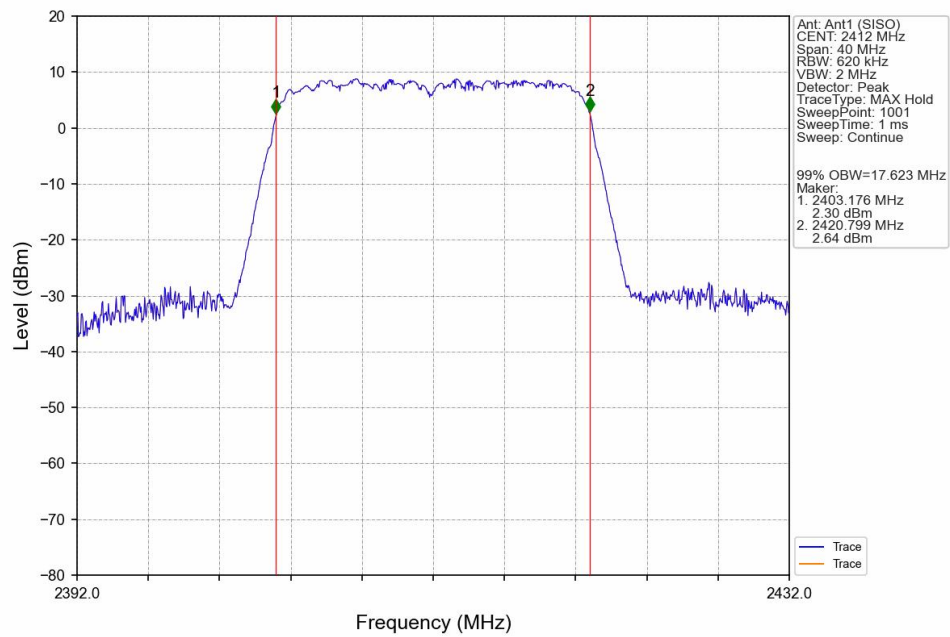


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

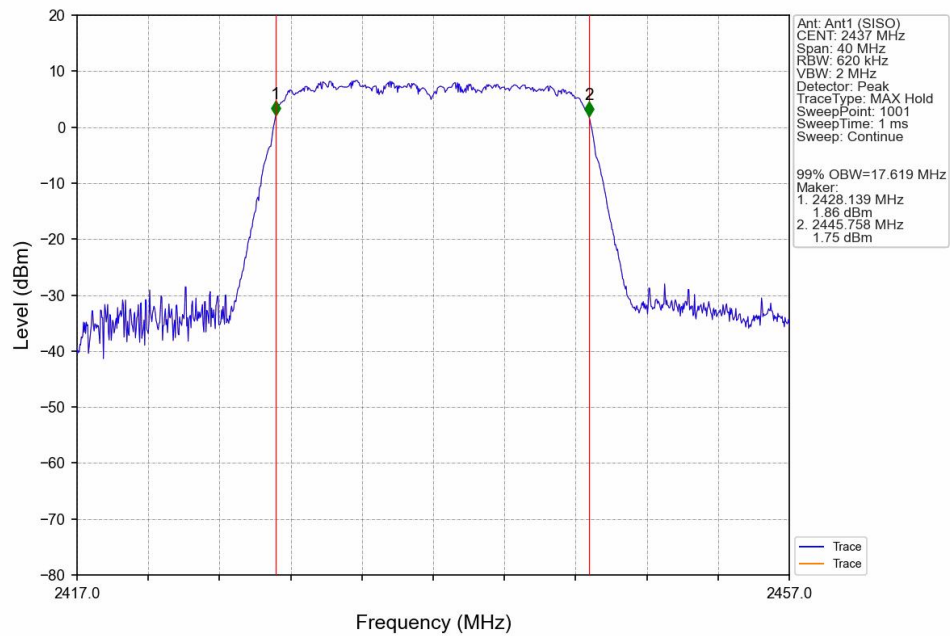




802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

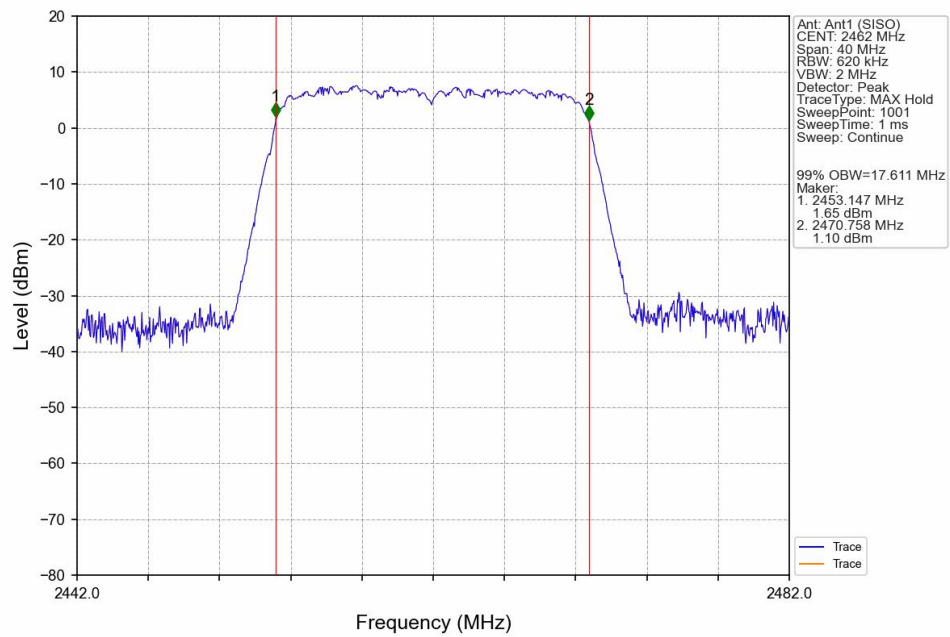


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



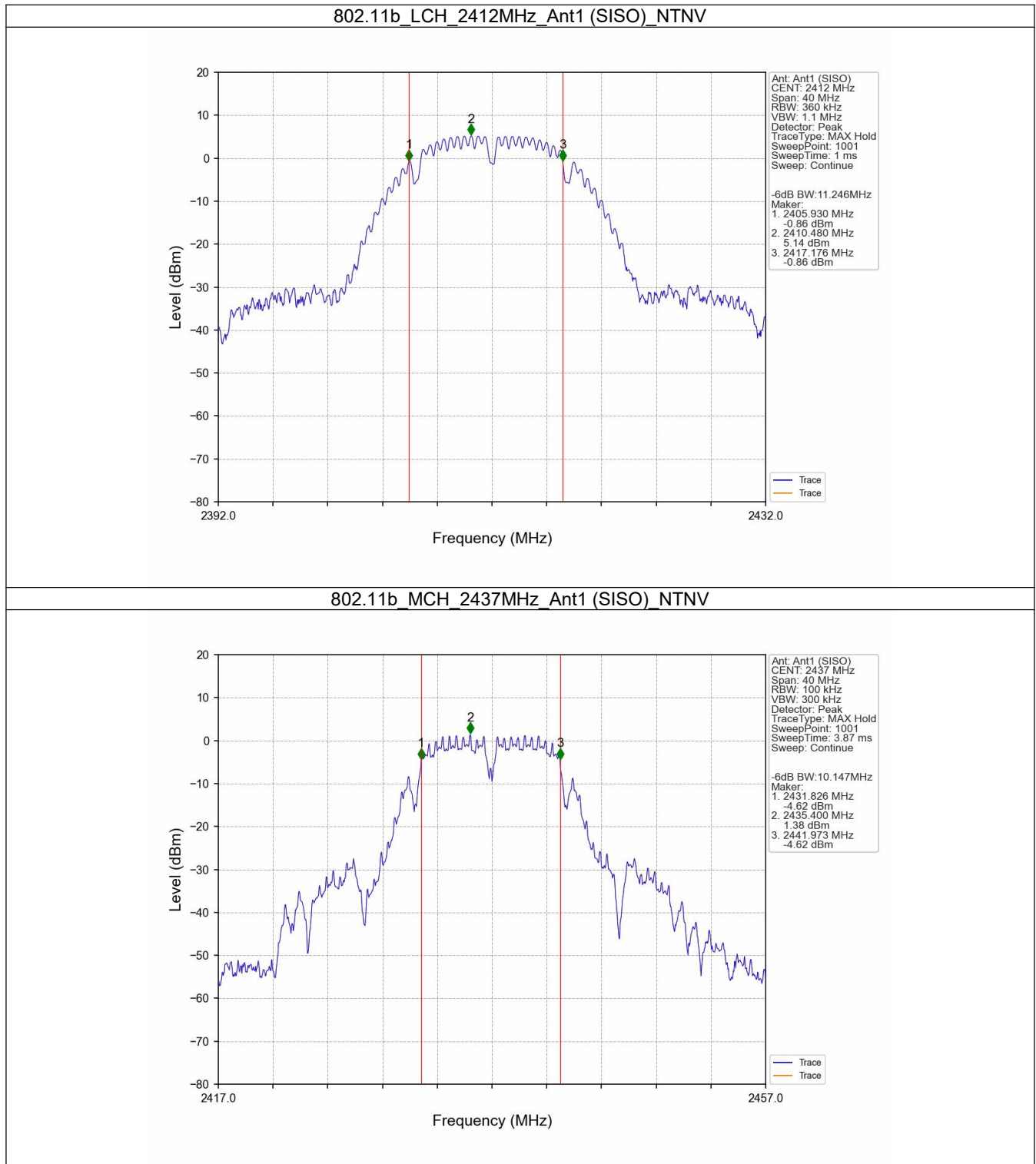


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



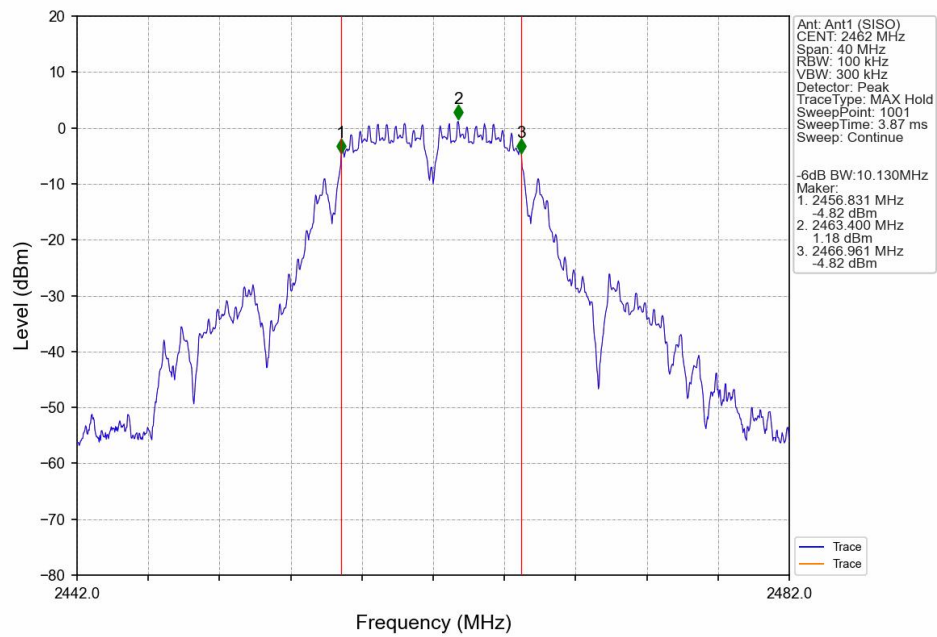


2.2.2 6dB BW

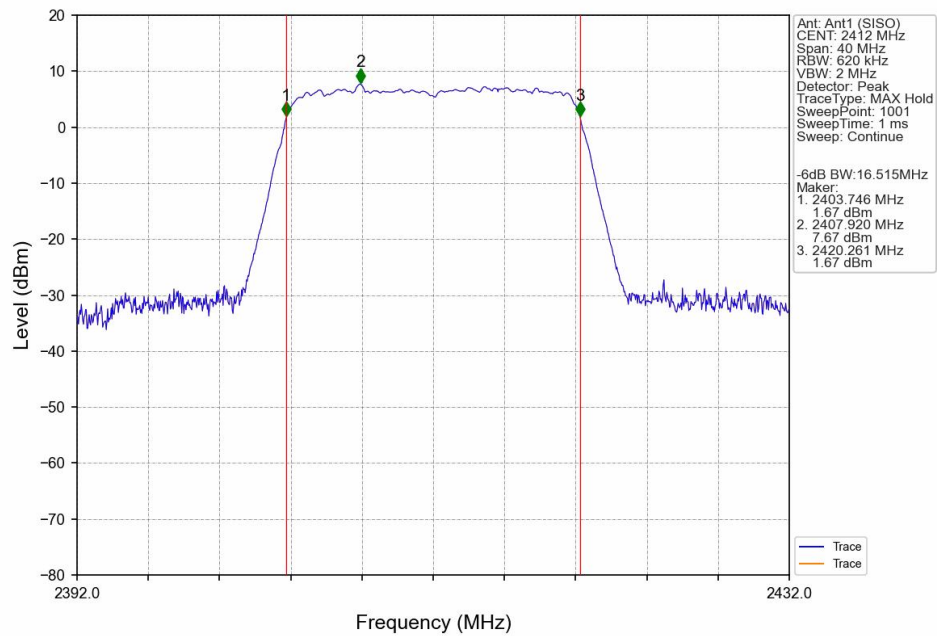




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

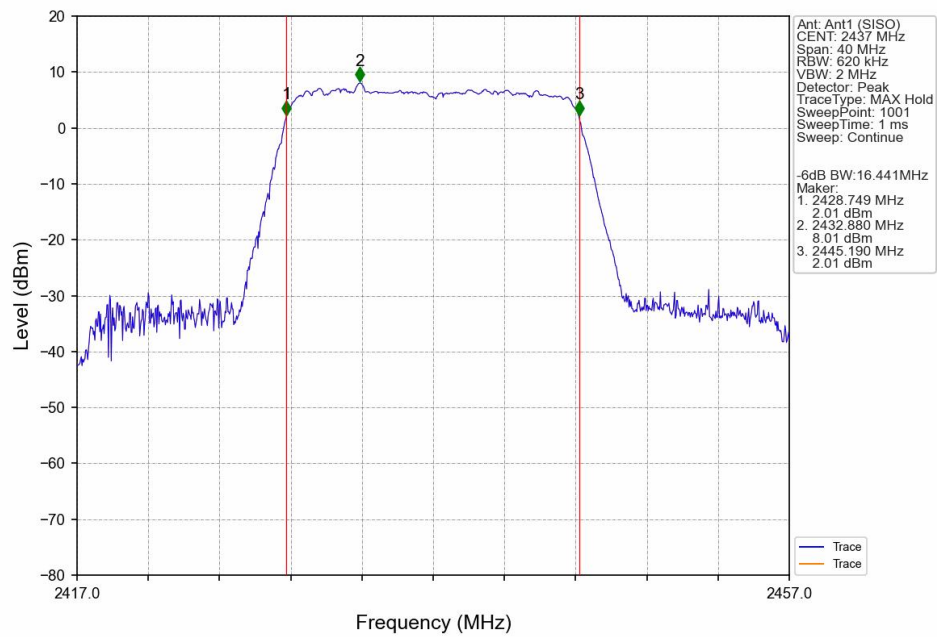


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

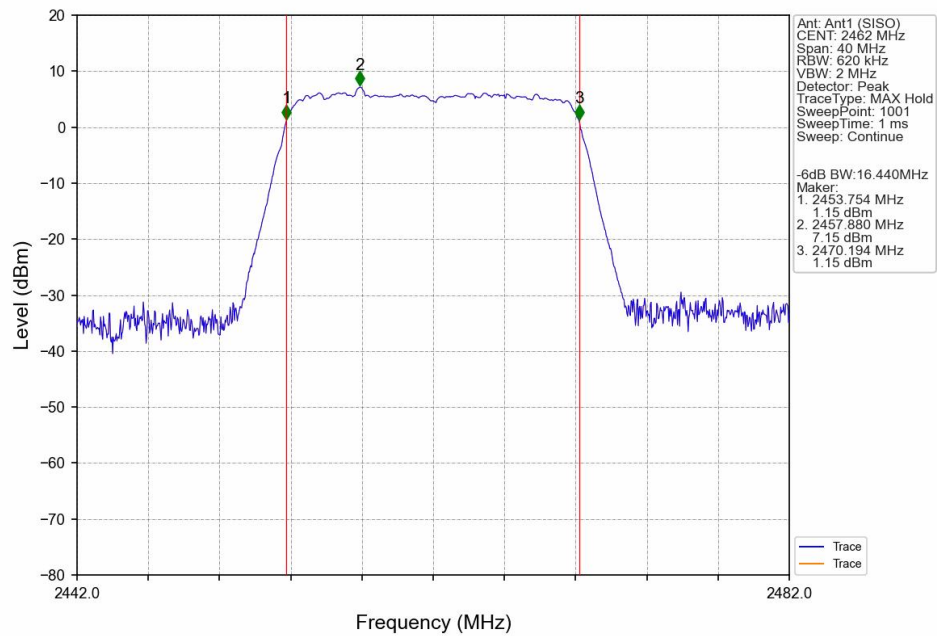




802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

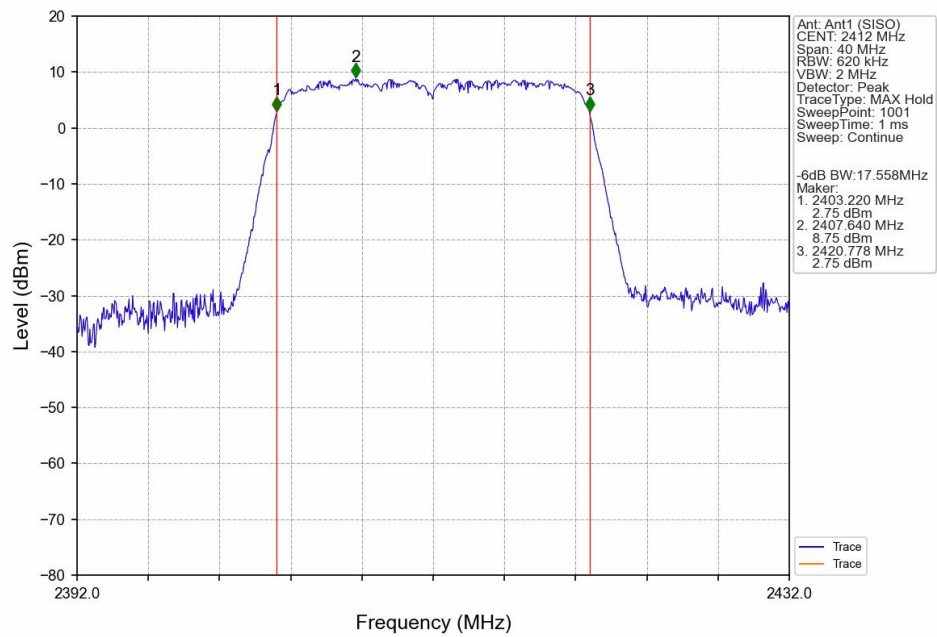


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

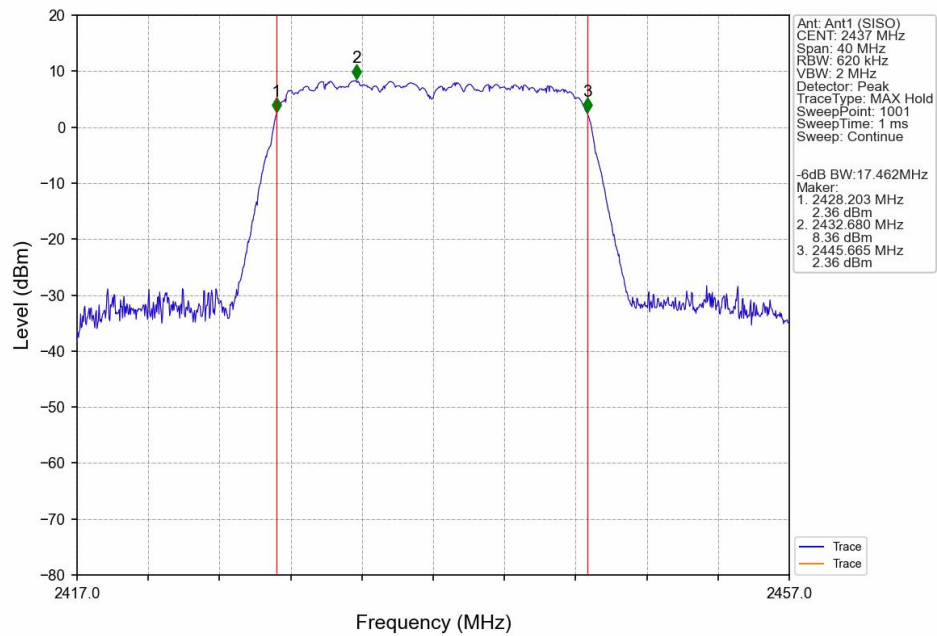




802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

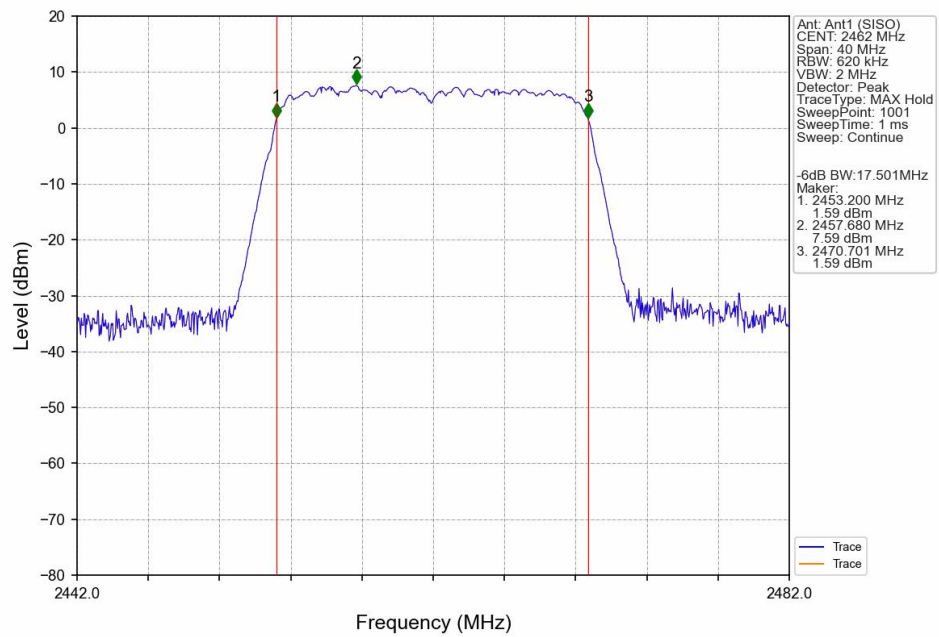


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	14.43	<=30	Pass
		2437	13.70	<=30	Pass
		2462	14.02	<=30	Pass
802.11g	SISO	2412	13.58	<=30	Pass
		2437	13.42	<=30	Pass
		2462	12.70	<=30	Pass
802.11n (HT20)	SISO	2412	13.48	<=30	Pass
		2437	12.80	<=30	Pass
		2462	12.01	<=30	Pass
Note1: Antenna Gain: Ant1: 1.53dBi;					



4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

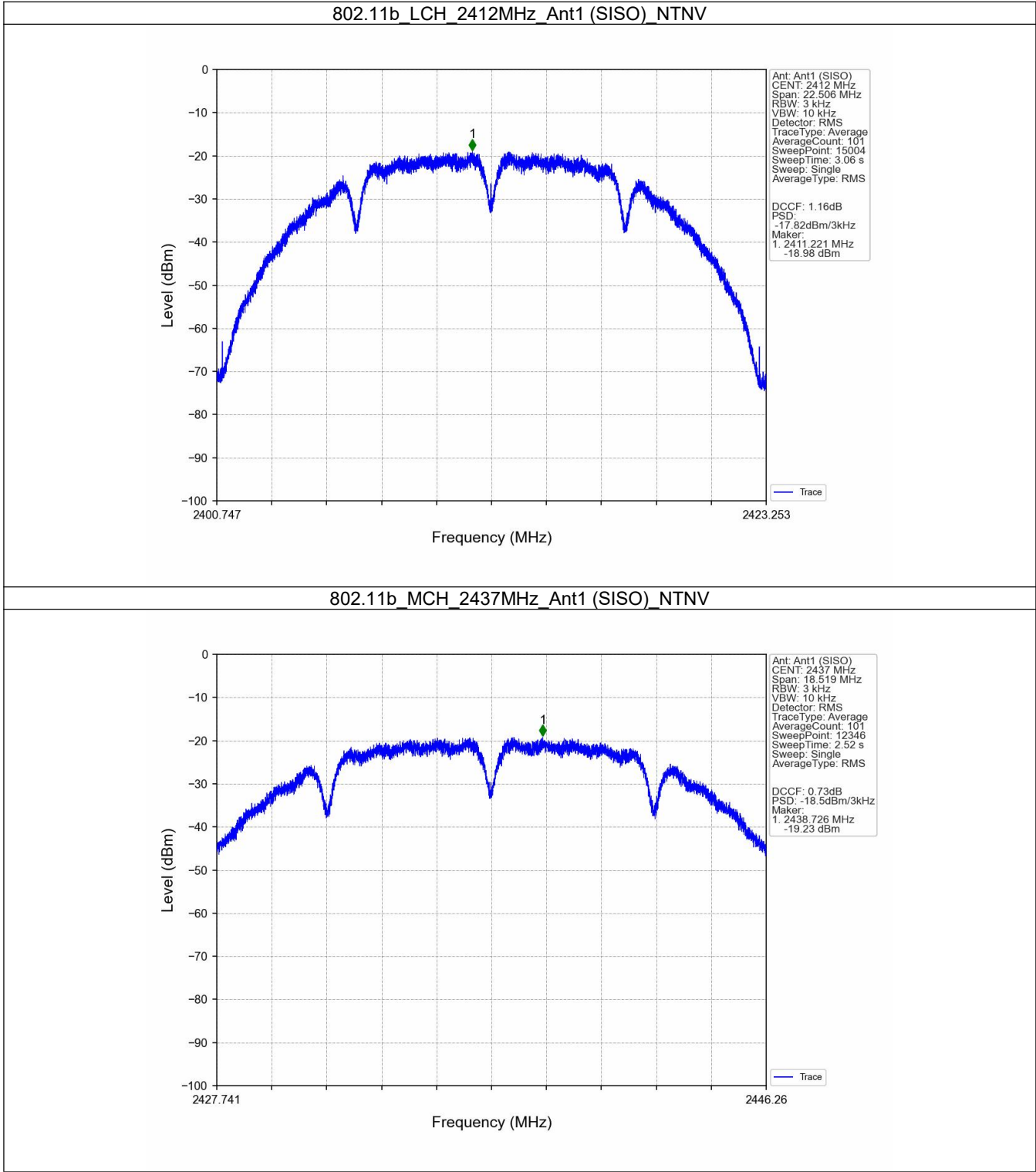
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-17.82	≤ 8	Pass
		2437	-18.50	≤ 8	Pass
		2462	-17.87	≤ 8	Pass
802.11g	SISO	2412	-17.43	≤ 8	Pass
		2437	-18.74	≤ 8	Pass
		2462	-19.03	≤ 8	Pass
802.11n (HT20)	SISO	2412	-19.03	≤ 8	Pass
		2437	-19.46	≤ 8	Pass
		2462	-20.07	≤ 8	Pass

Note1: Antenna Gain: Ant1: 1.53dBi;



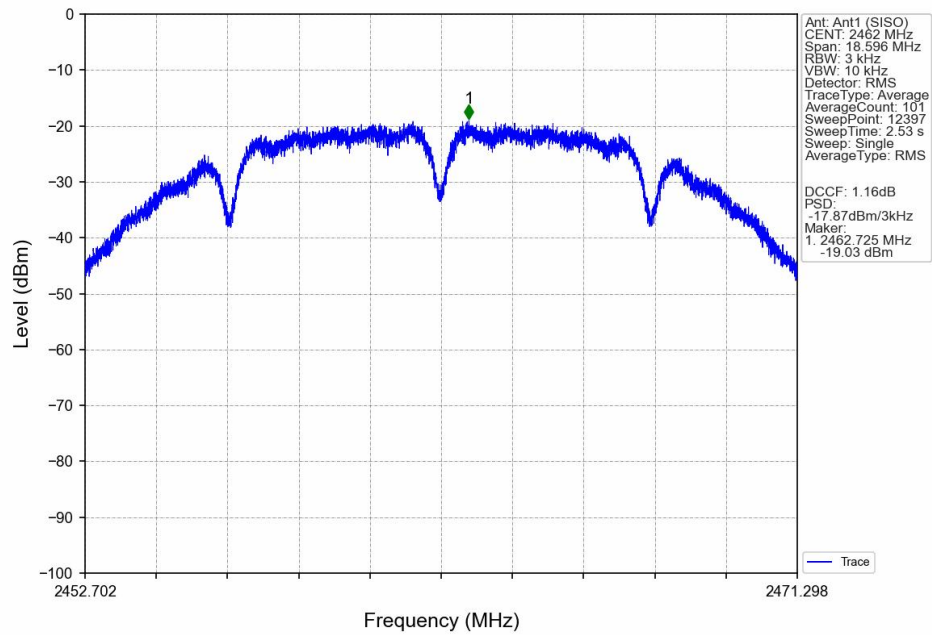
4.2 Test Graph

4.2.1 PSD

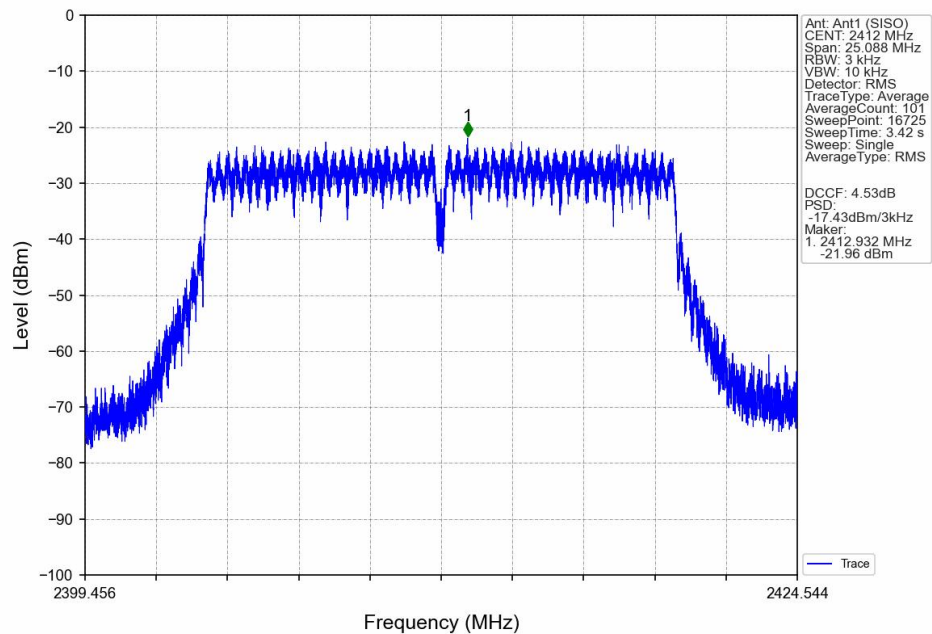




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

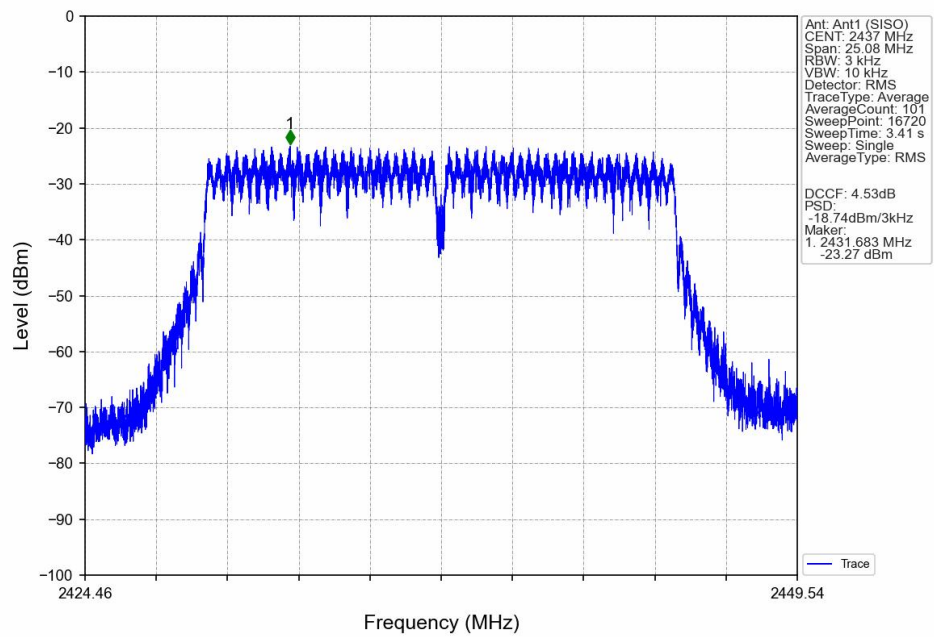


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

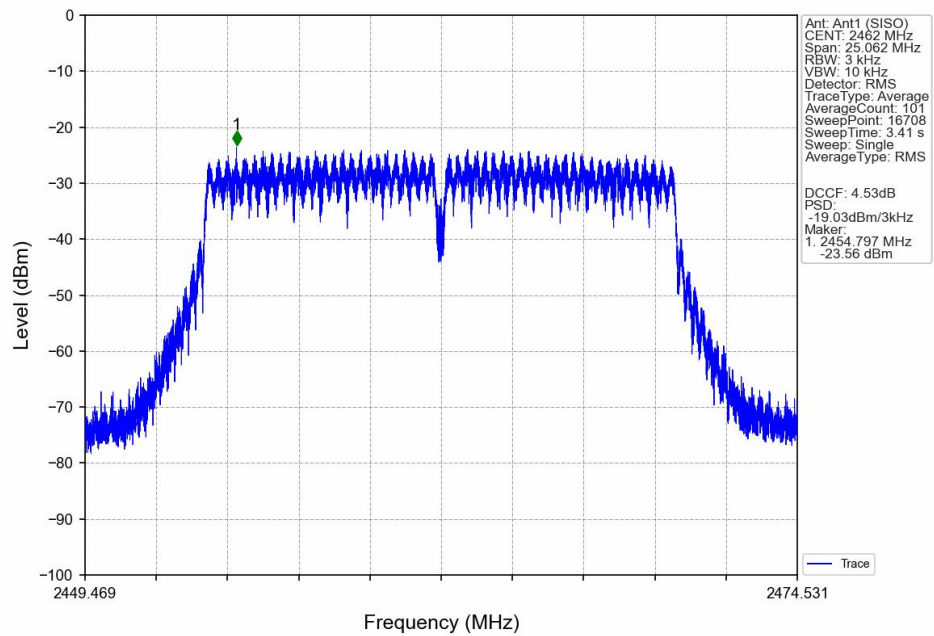




802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

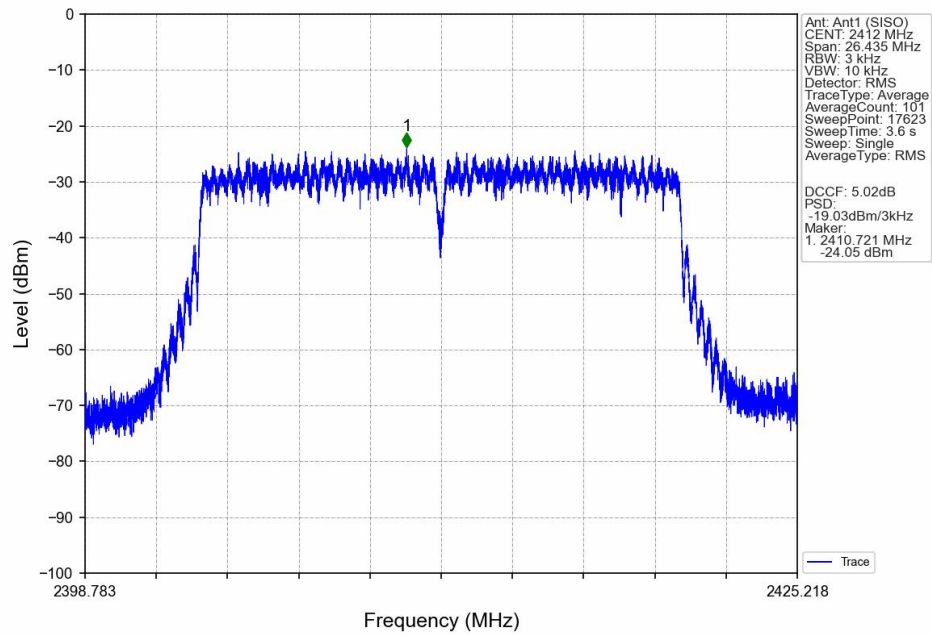


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

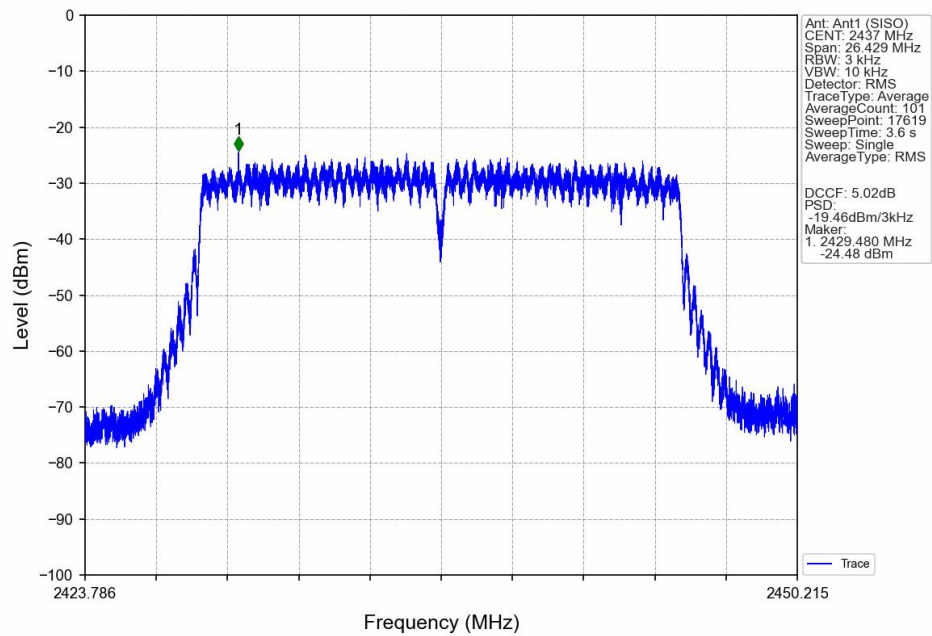




802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

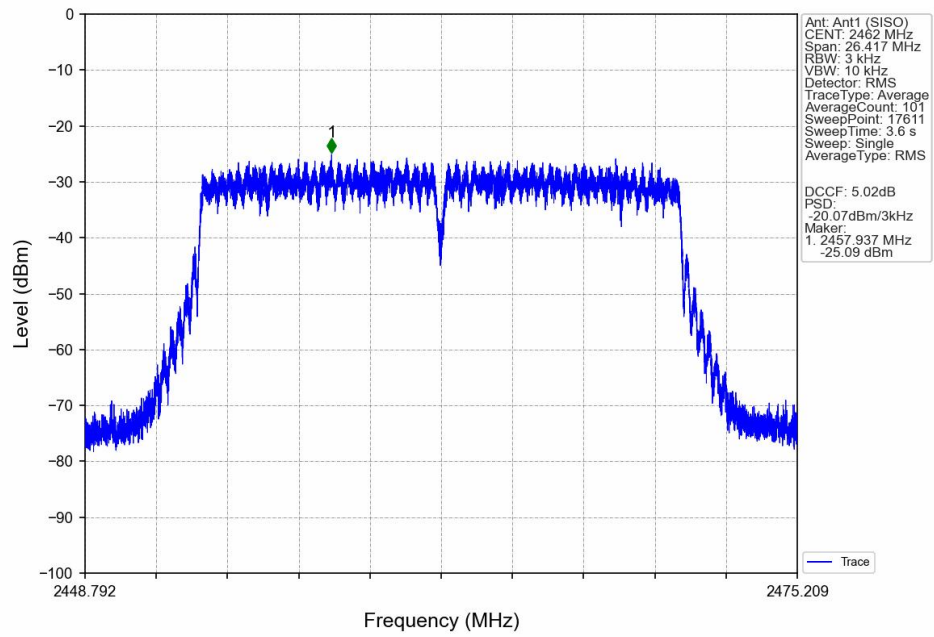


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





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)
802.11b	SISO	2412	1	4.48
		2437	1	1.58
		2462	1	1.11
802.11g	SISO	2412	1	2.56
		2437	1	2.34
		2462	1	1.57
802.11n (HT20)	SISO	2412	1	2.38
		2437	1	1.69
		2462	1	0.89

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 CSE

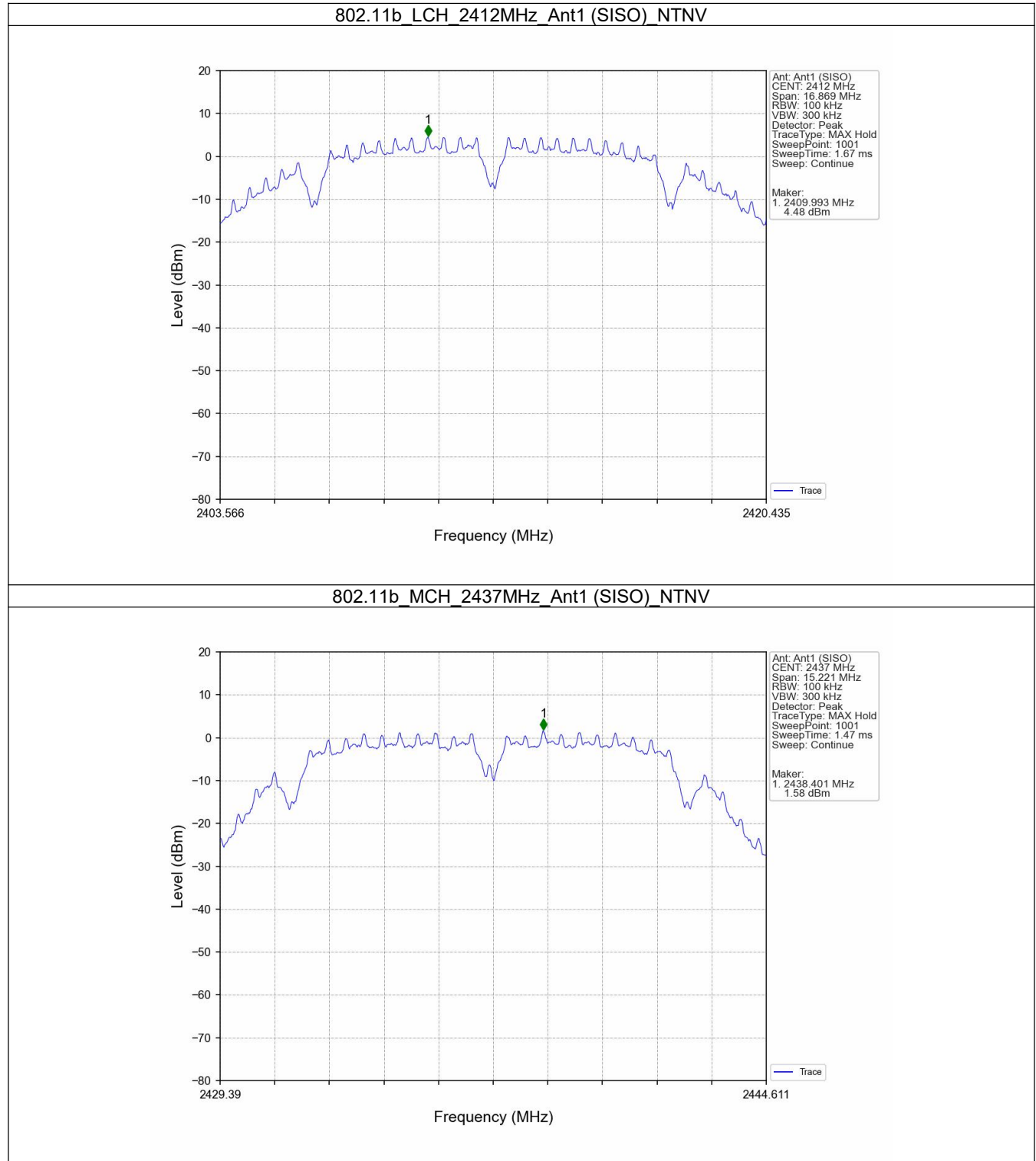
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.48	-25.52	Pass
		2437	1	1.58	-28.42	Pass
		2462	1	1.11	-28.89	Pass
802.11g	SISO	2412	1	2.56	-27.44	Pass
		2437	1	2.34	-27.66	Pass
		2462	1	1.57	-28.43	Pass
802.11n (HT20)	SISO	2412	1	2.38	-27.62	Pass
		2437	1	1.69	-28.31	Pass
		2462	1	0.89	-29.11	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.



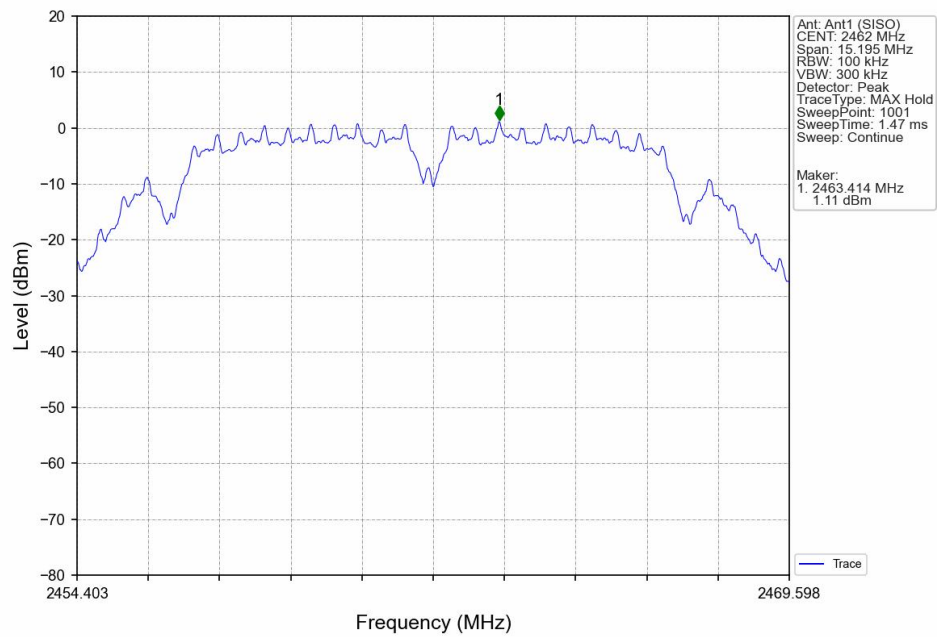
5.2 Test Graph

5.2.1 Ref

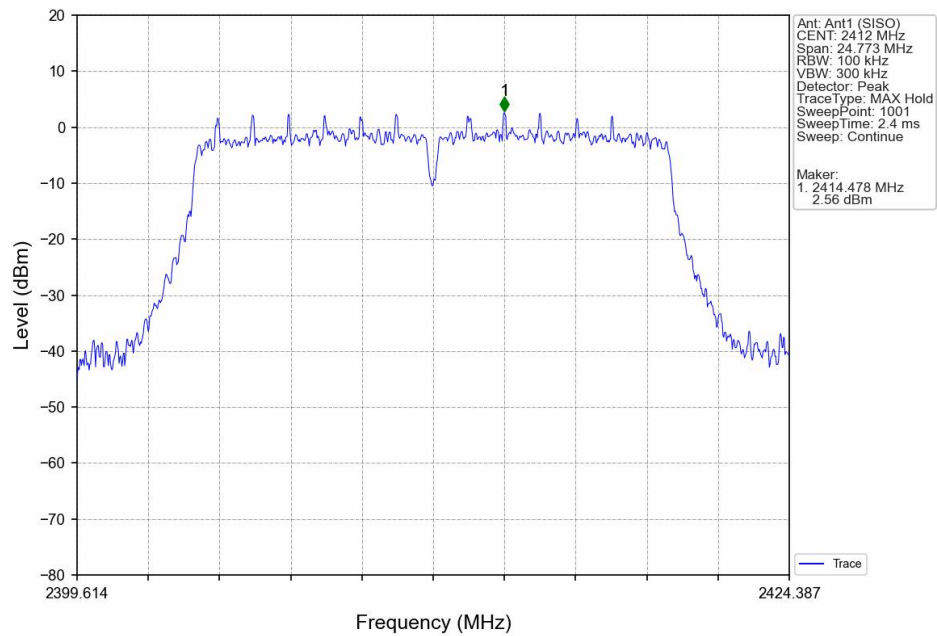




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

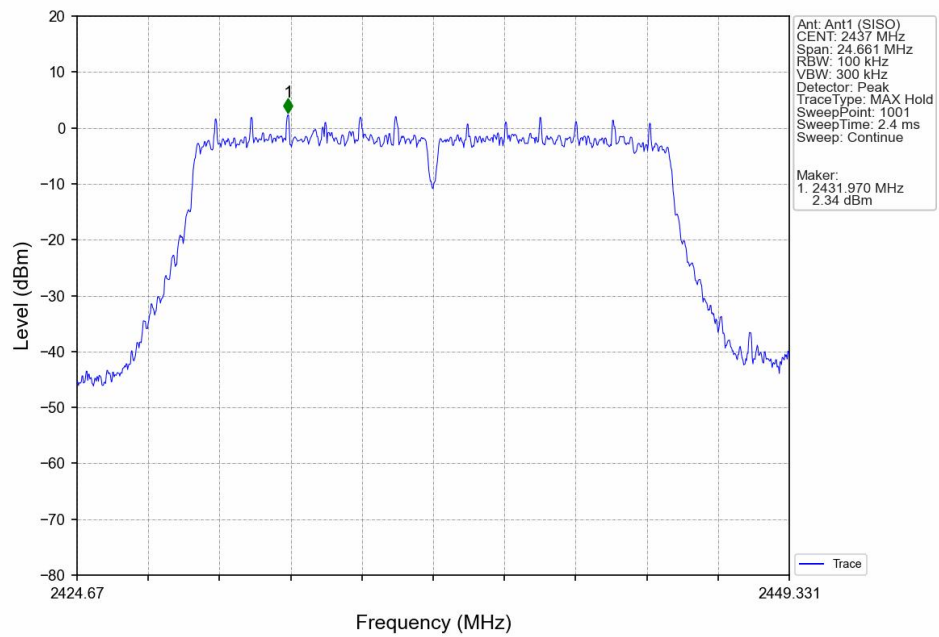


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

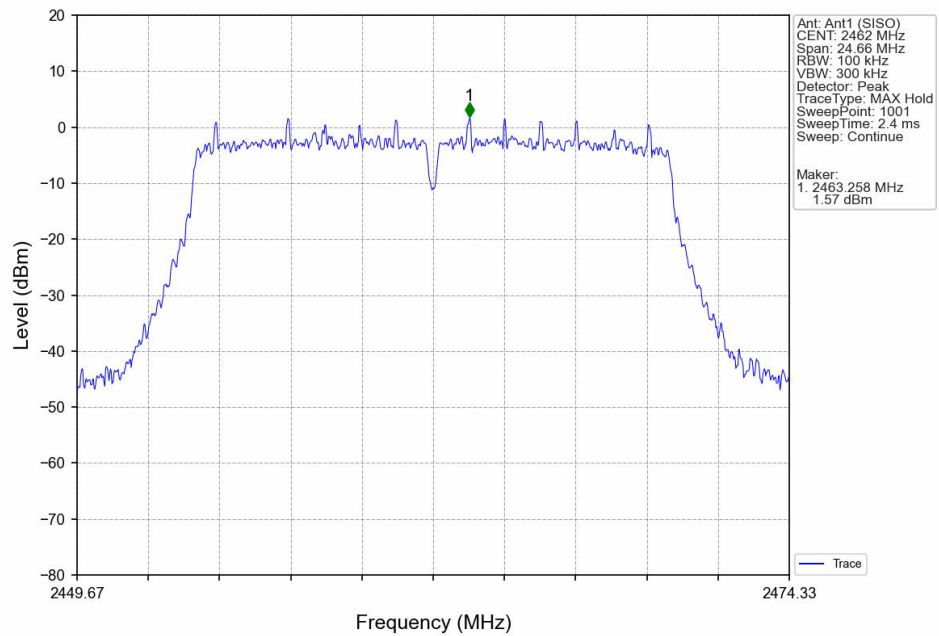




802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

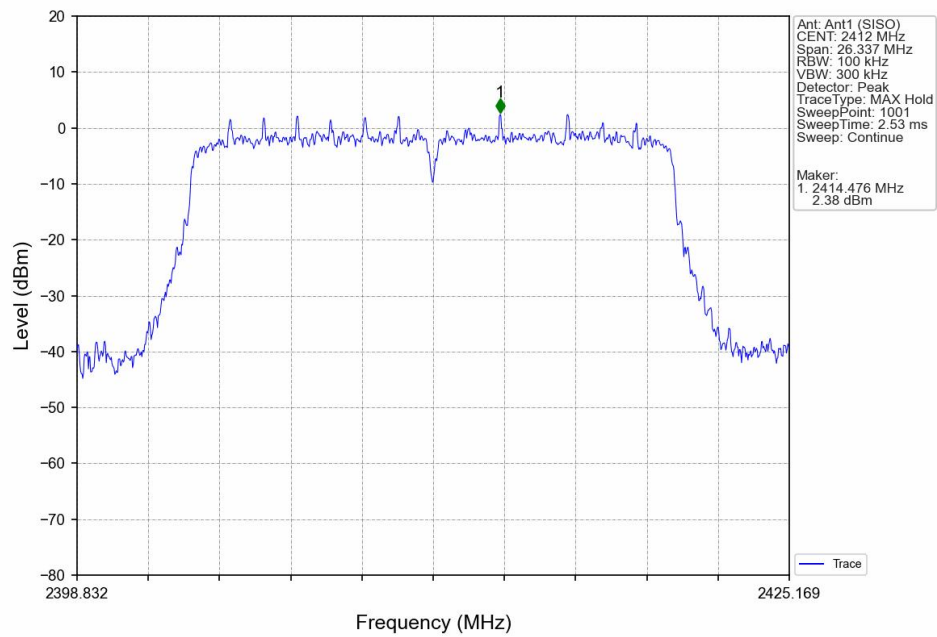


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

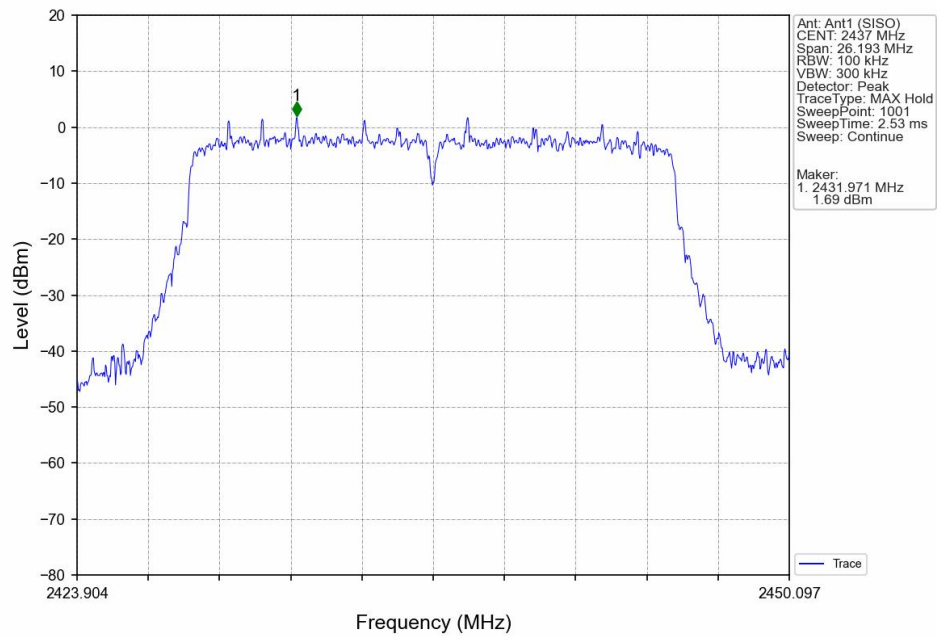




802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

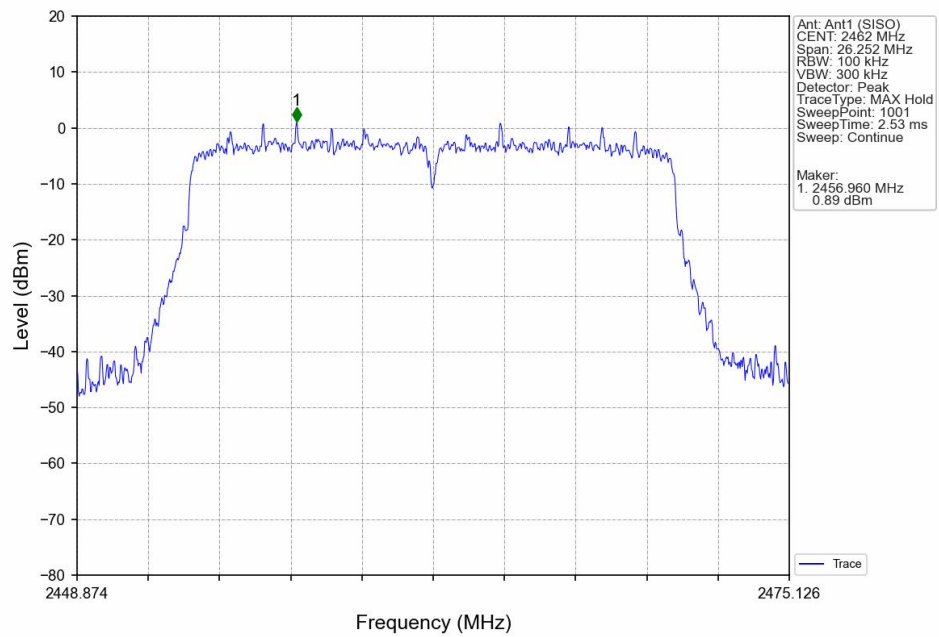


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



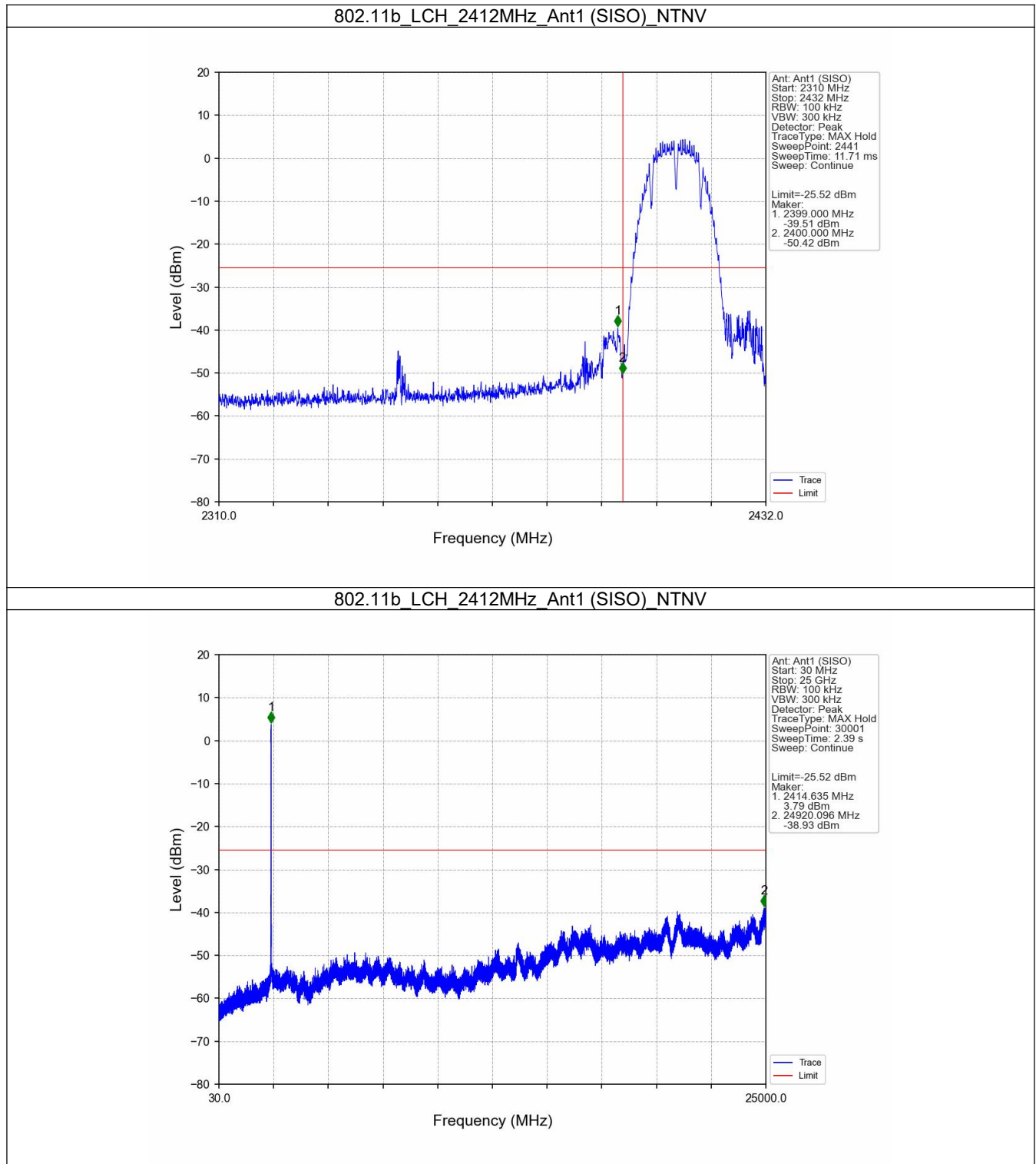


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



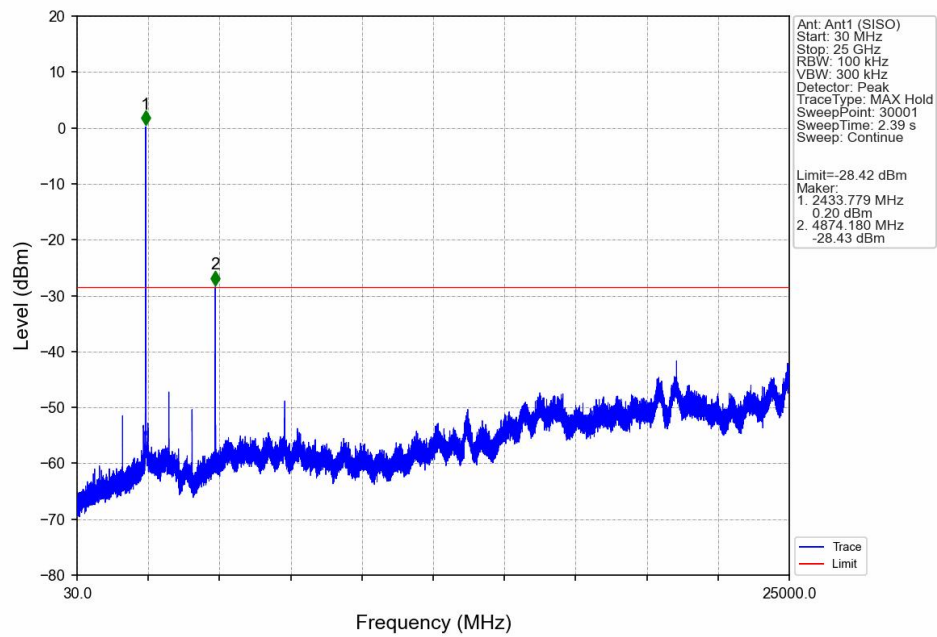


5.2.2 CSE

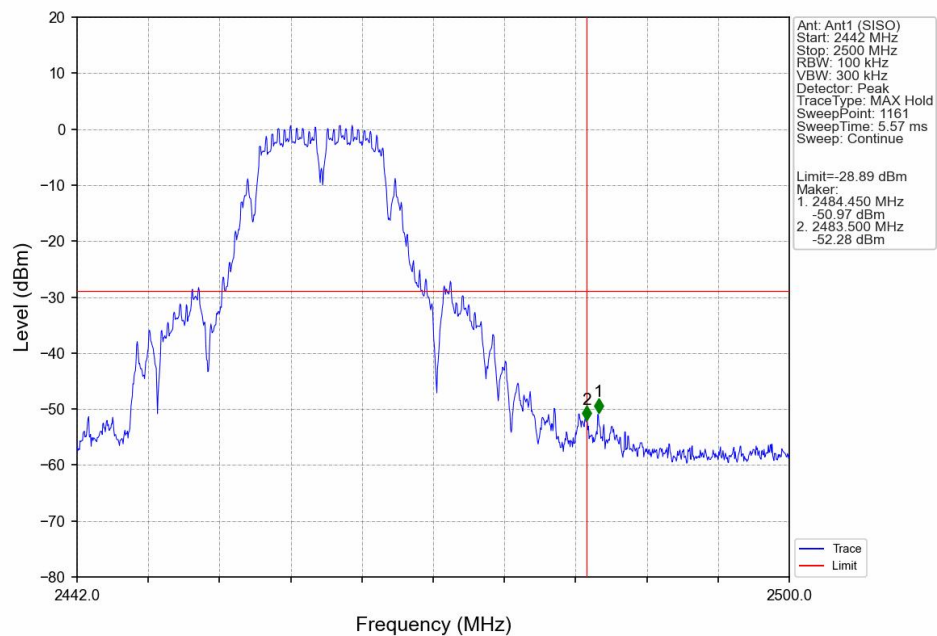




802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

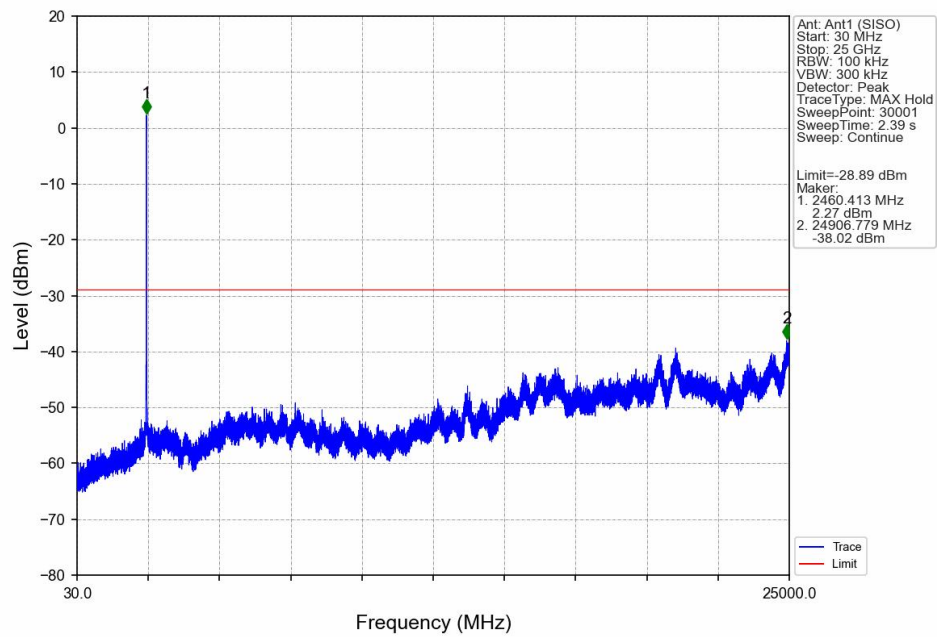


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

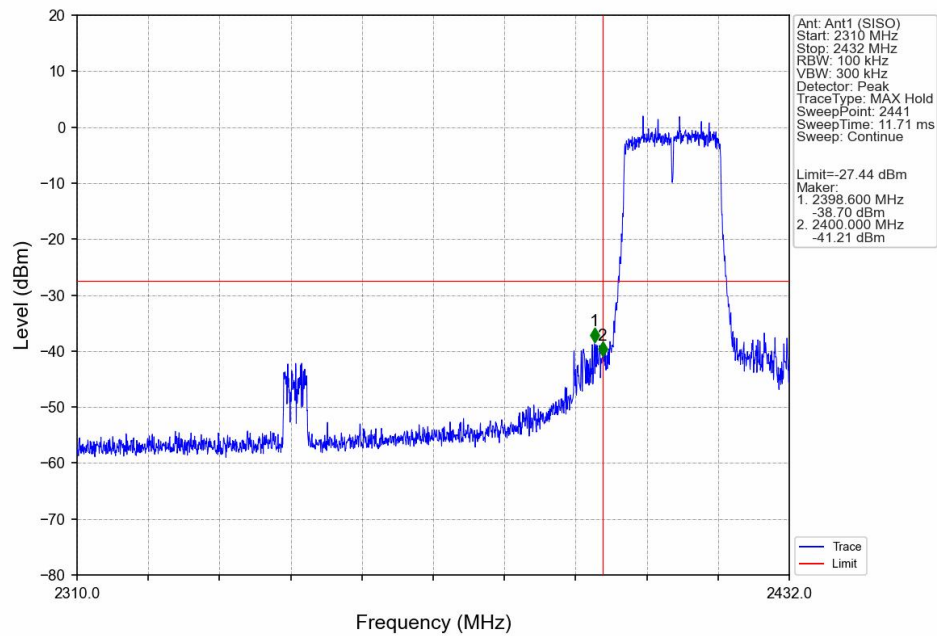




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

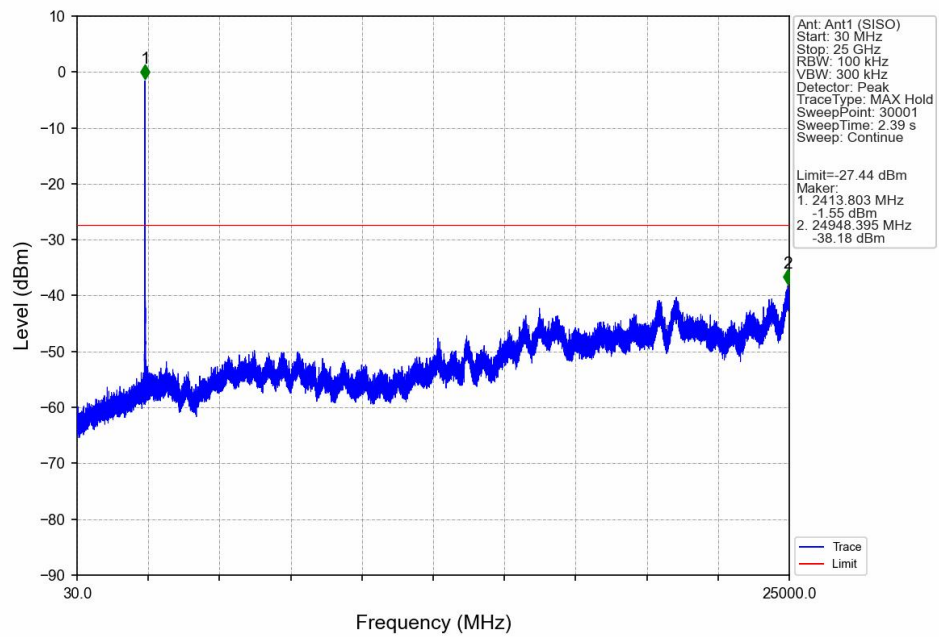


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

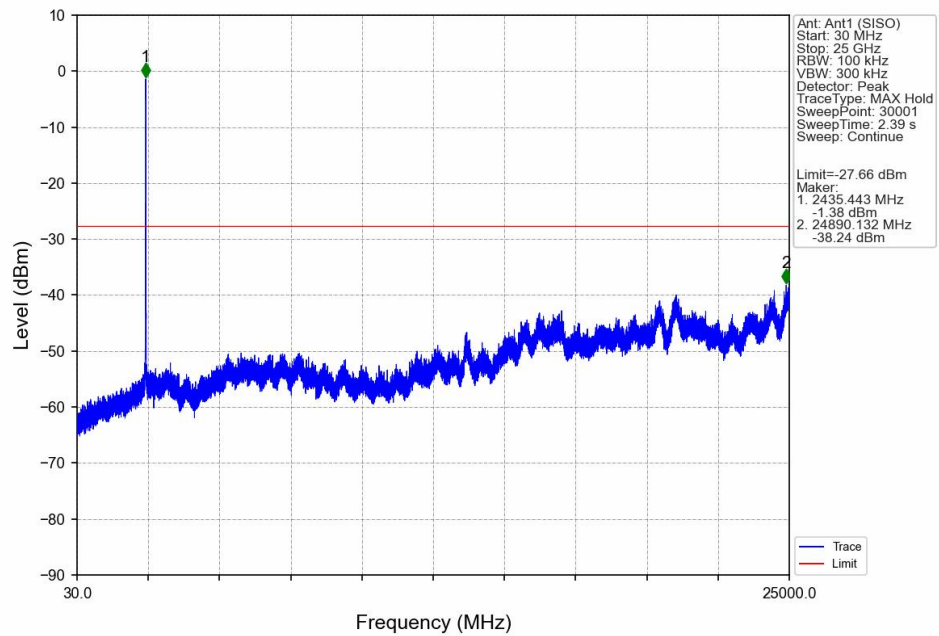




802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

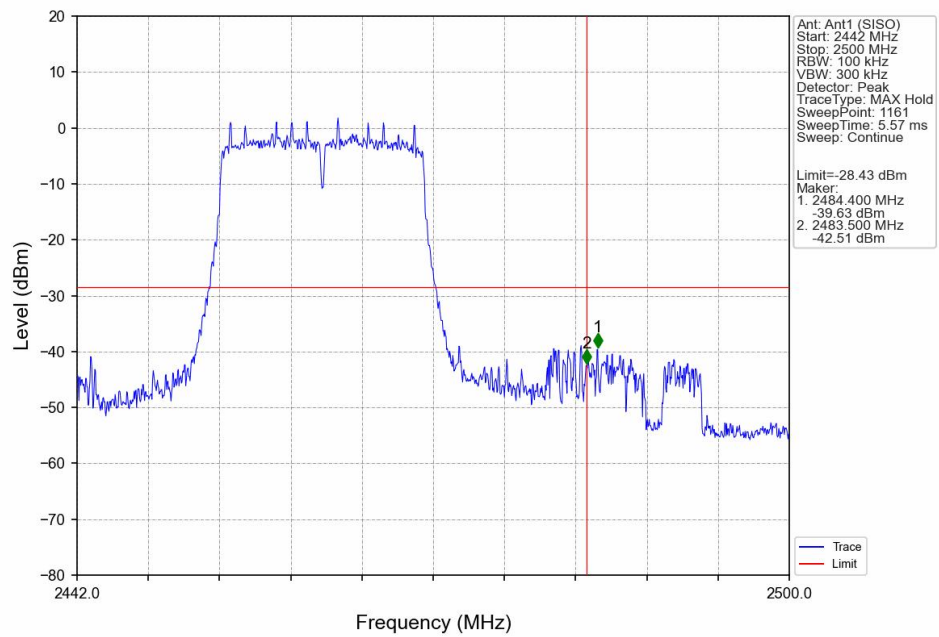


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

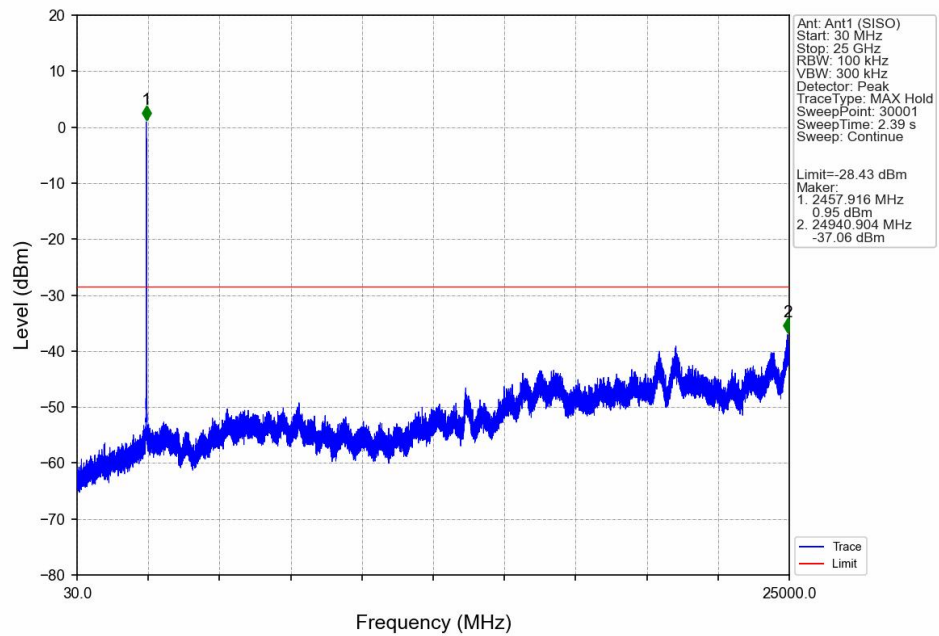




802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

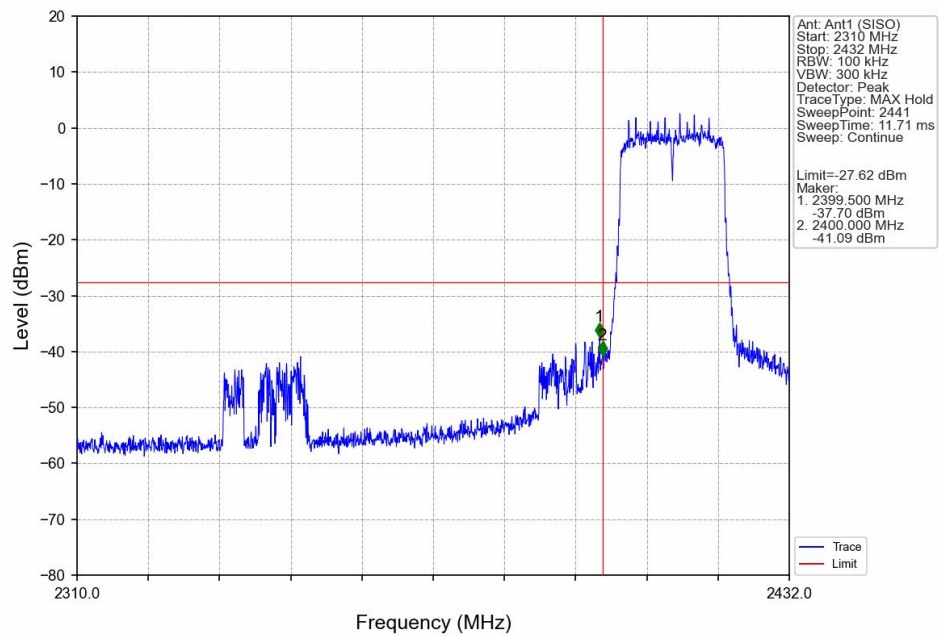


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

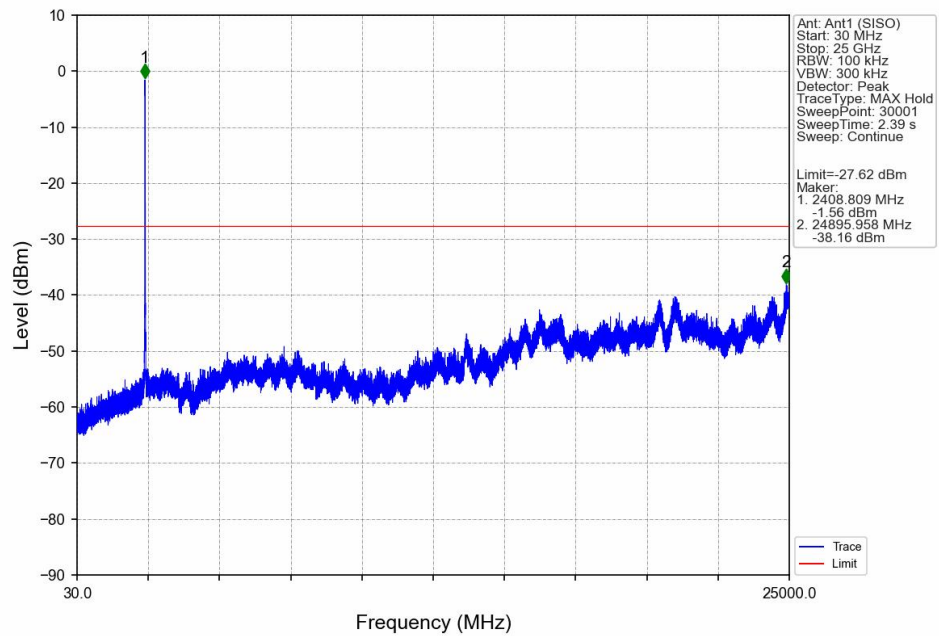




802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

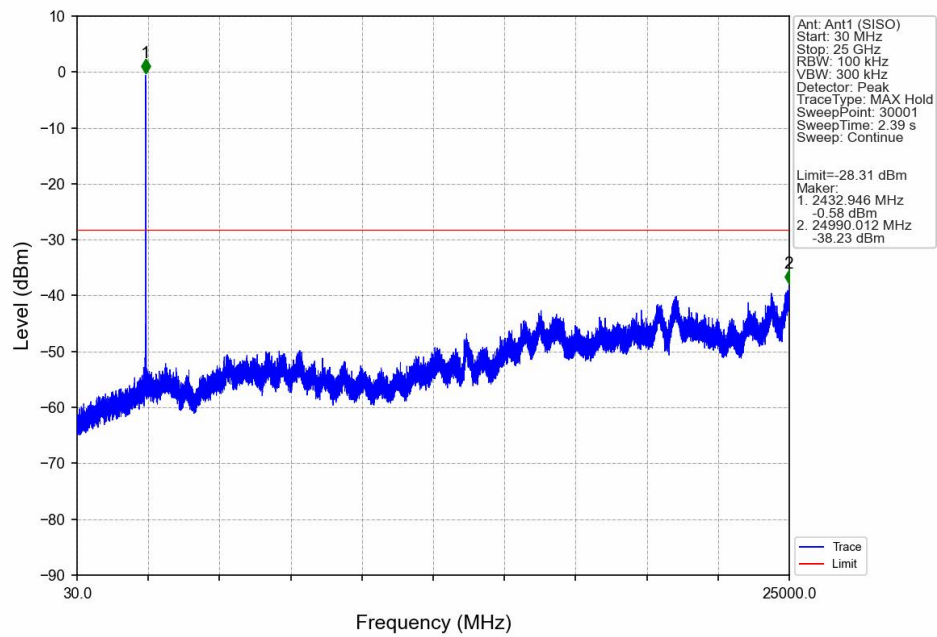


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

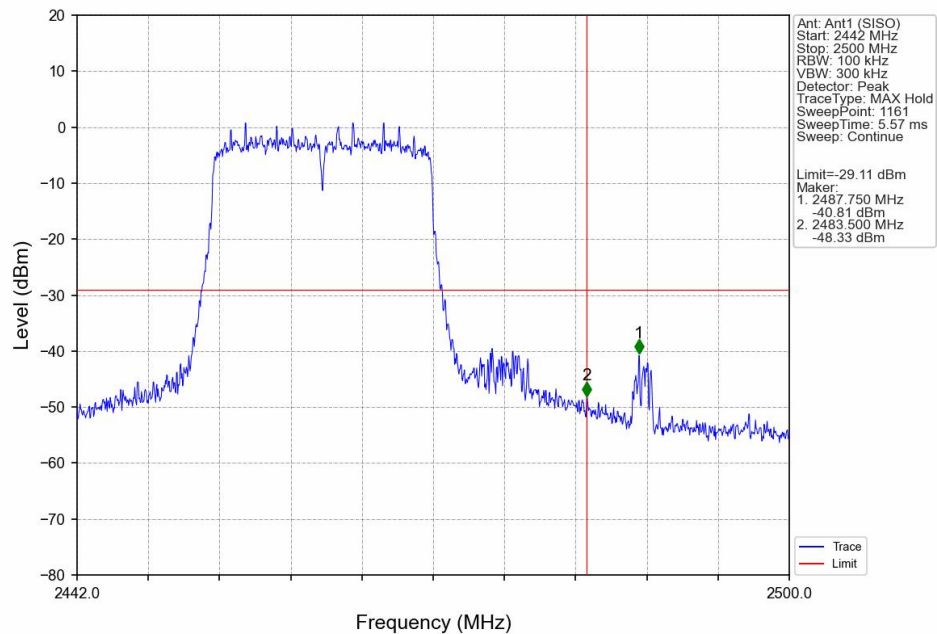




802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

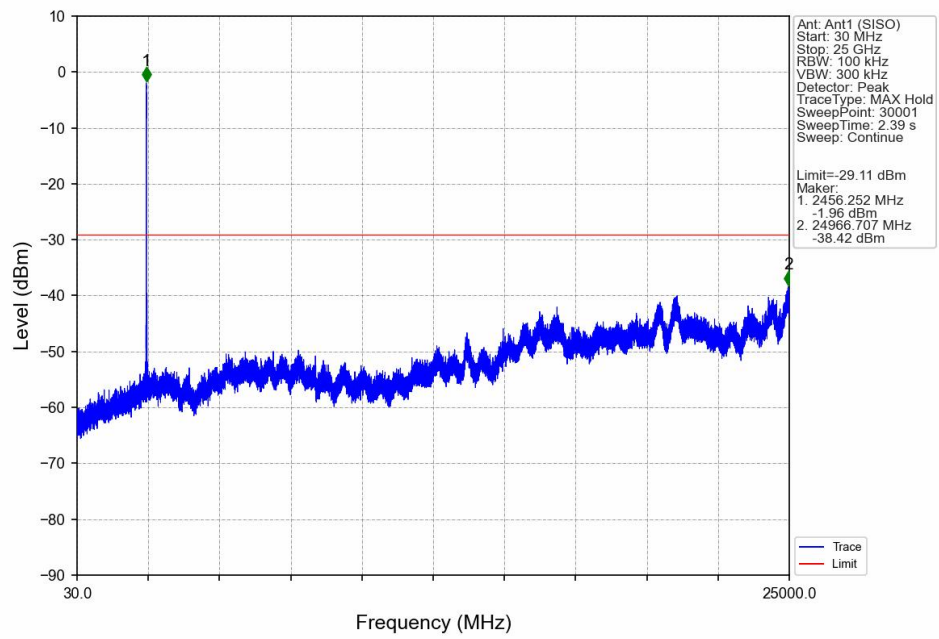


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





6. Form731

6.1 Test Result

6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.0277	14.43