

Appendix A for KSEM210800135901

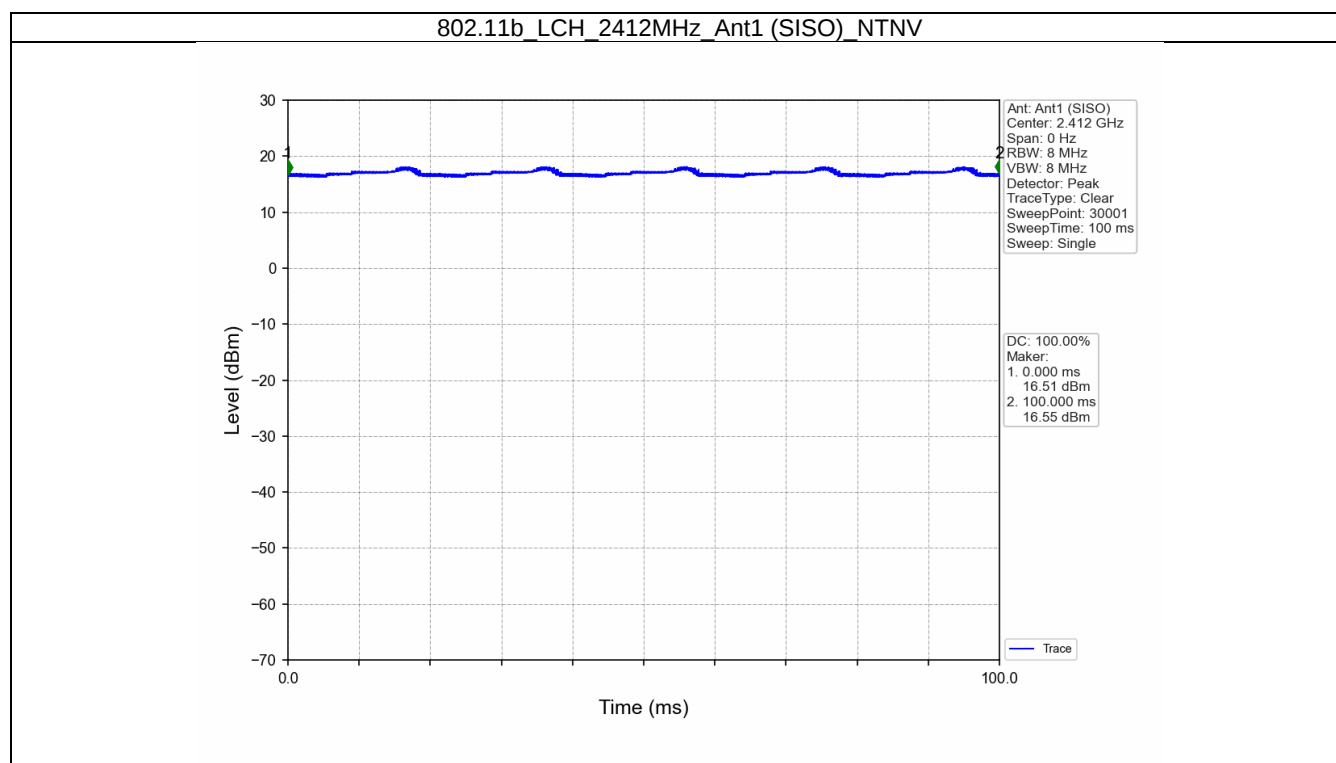
1. Duty Cycle

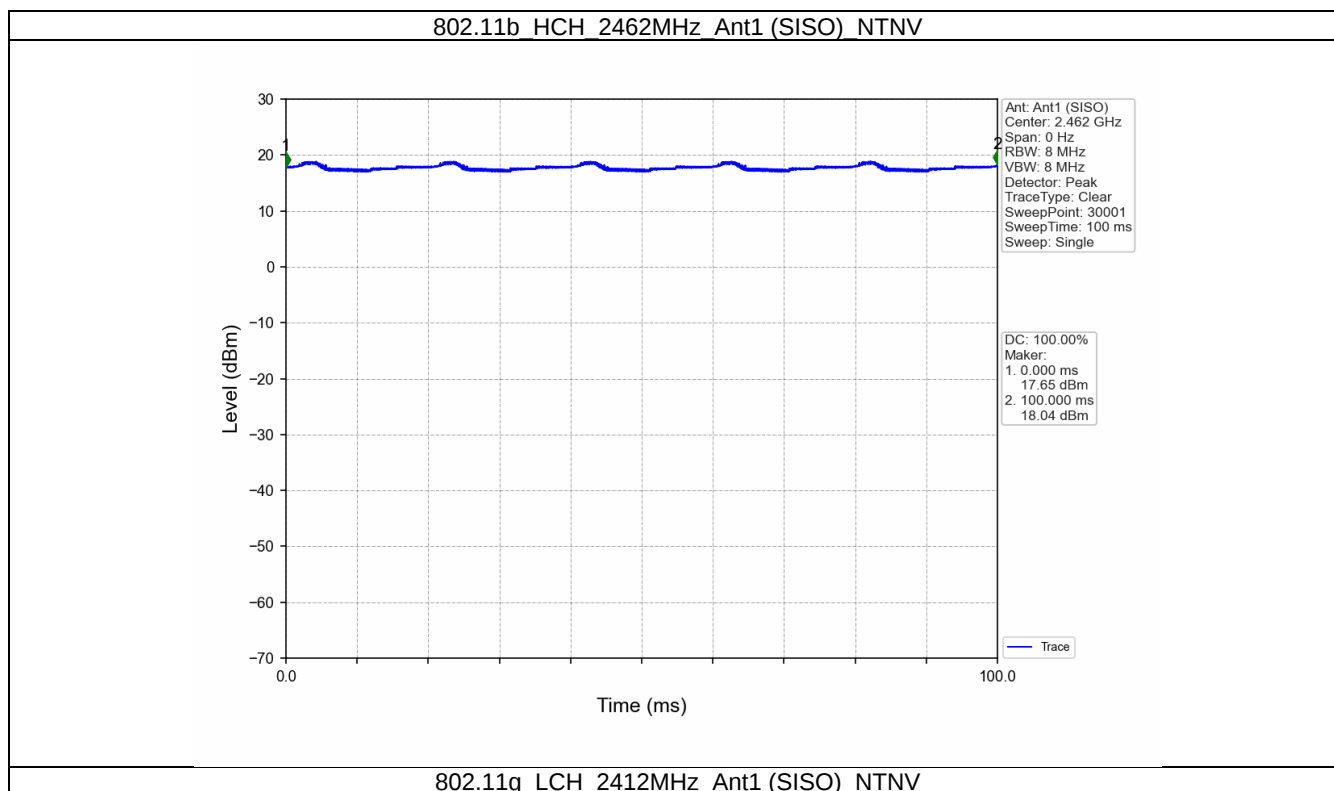
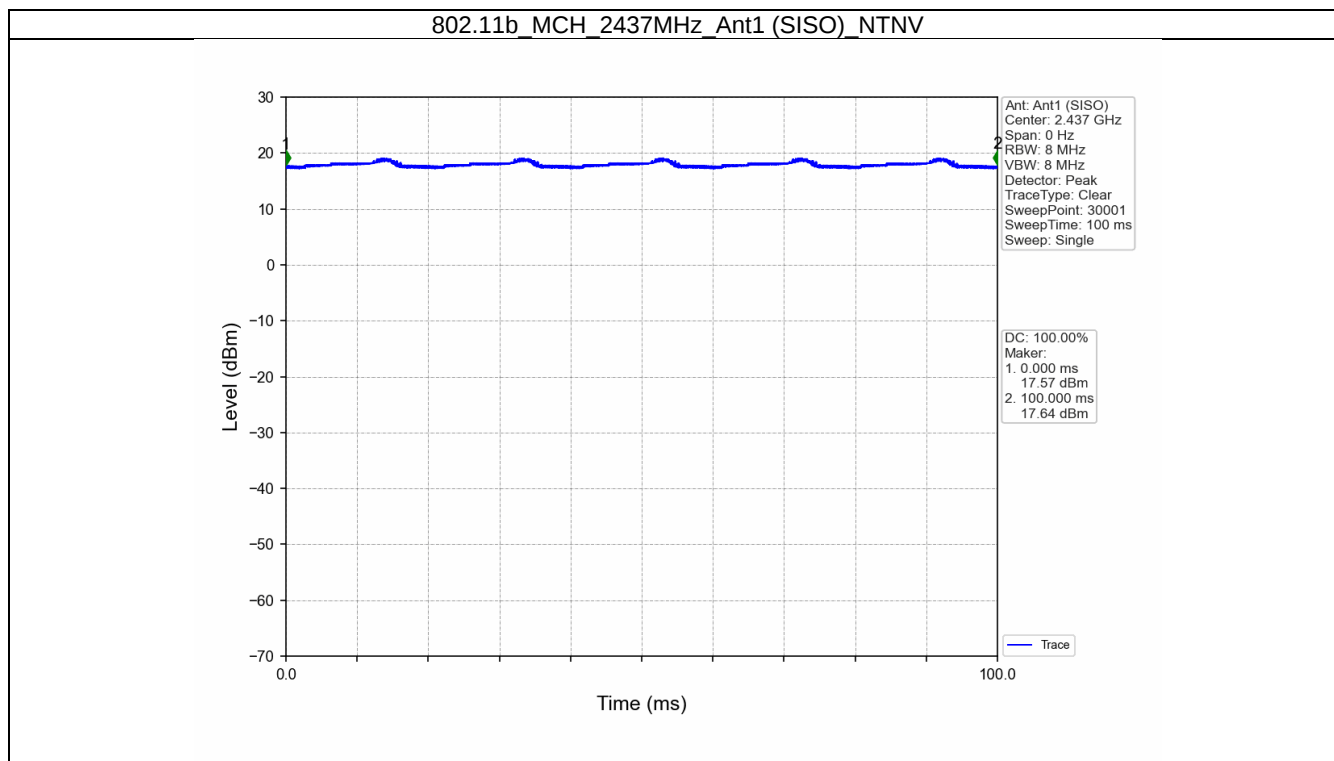
1.1 Ant1

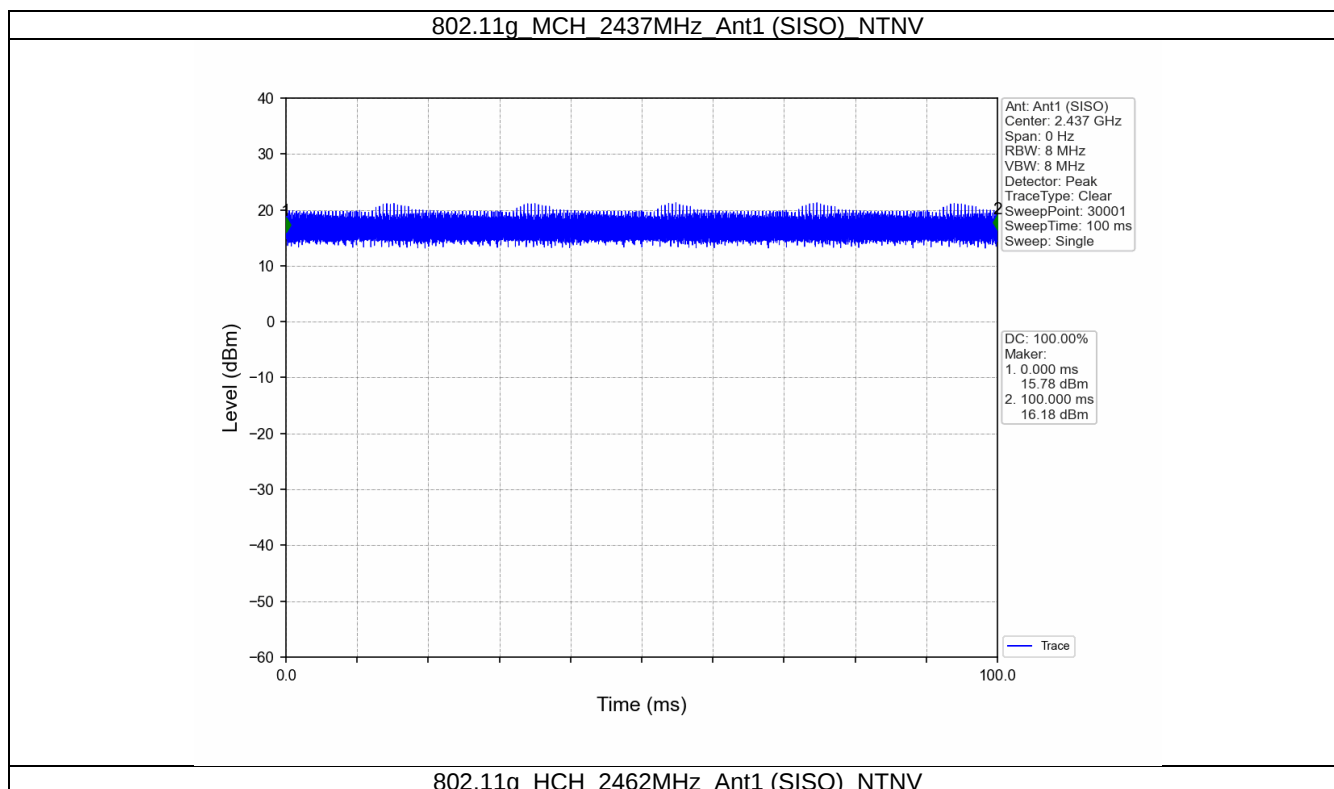
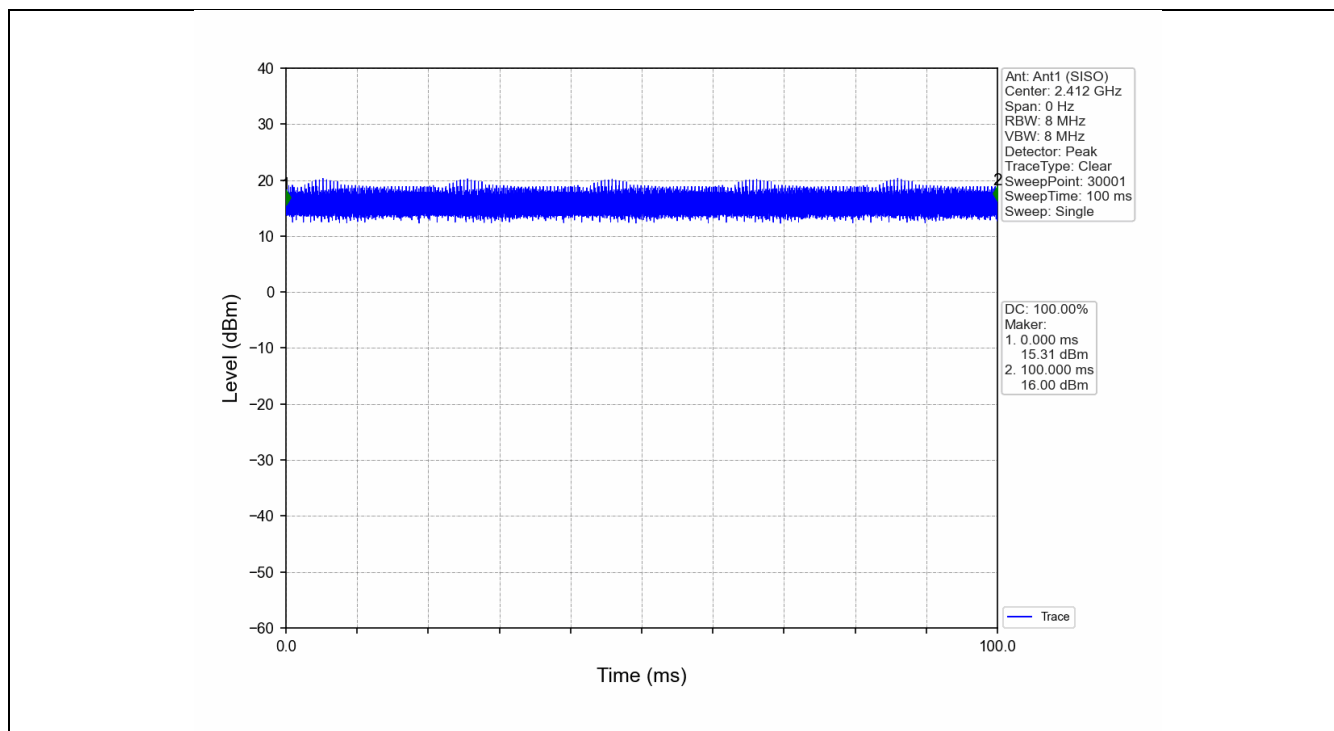
1.1.1 Test Result

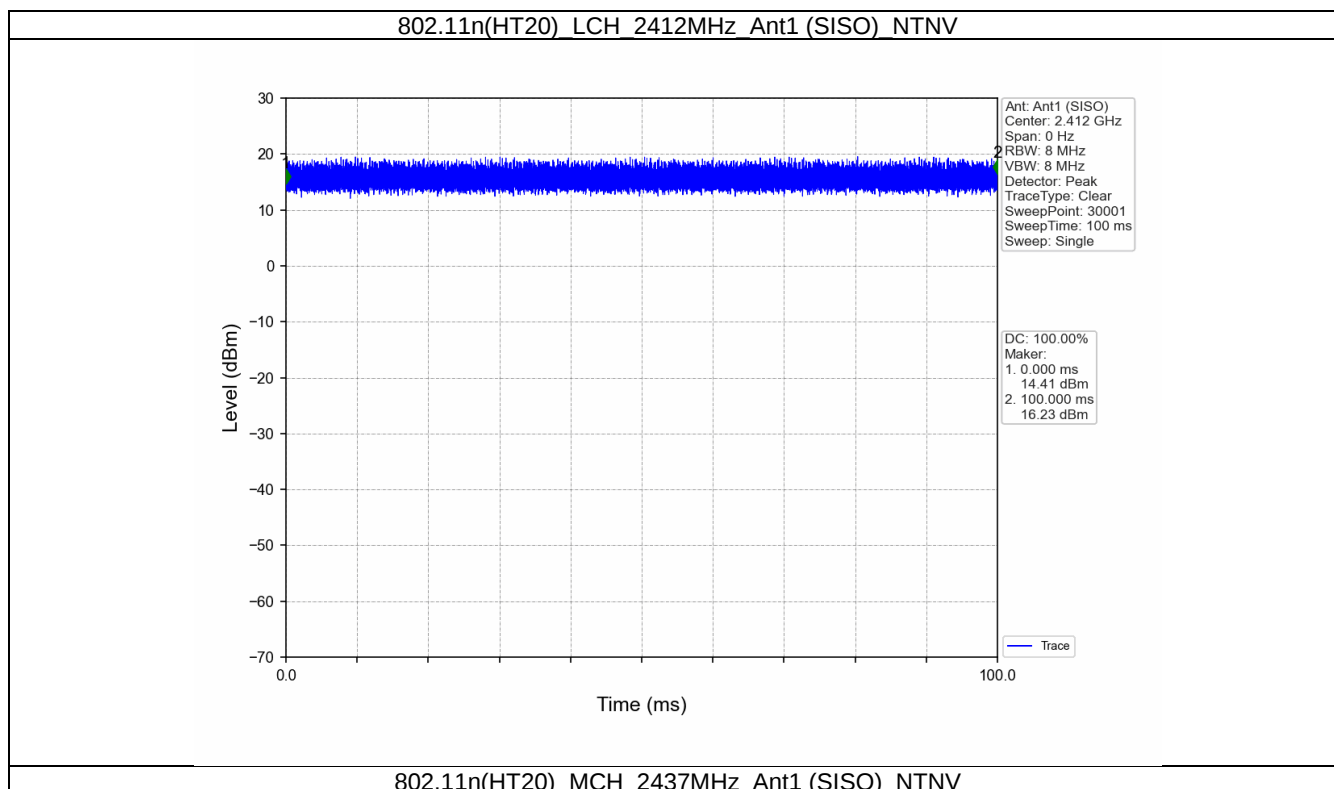
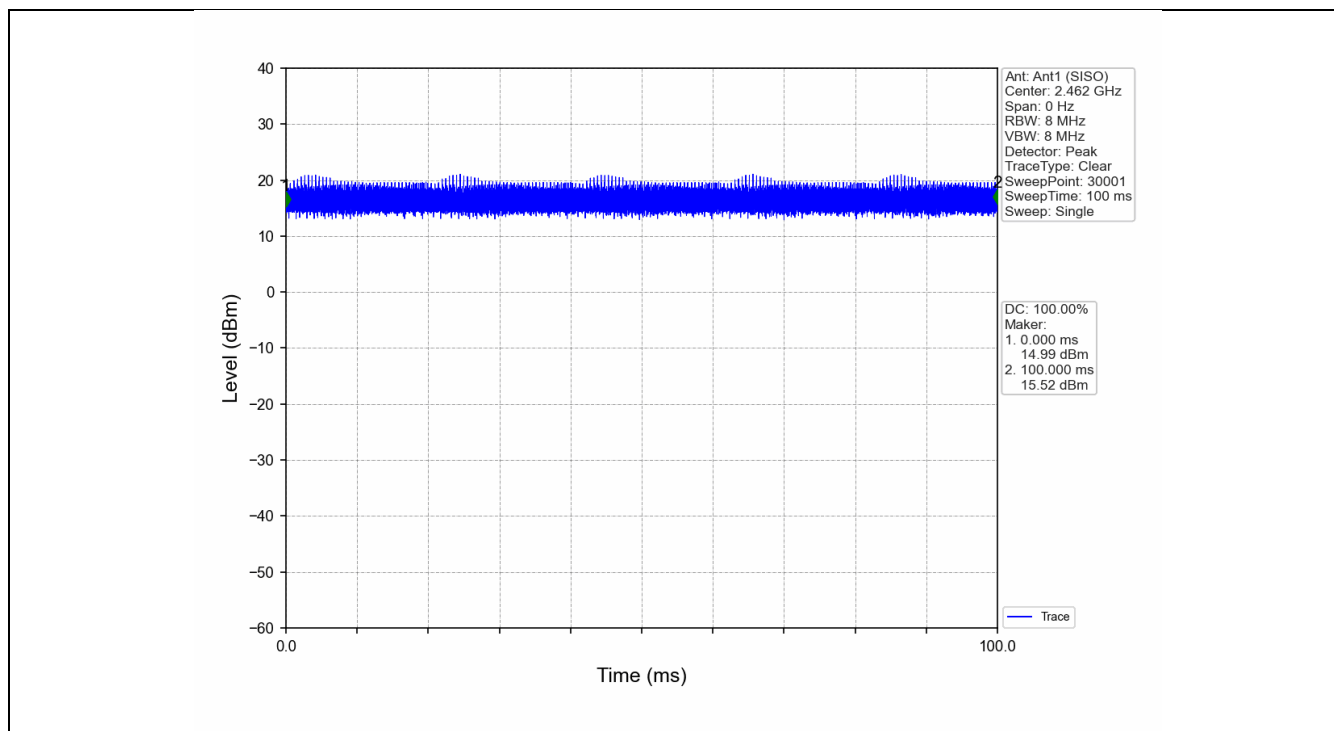
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	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

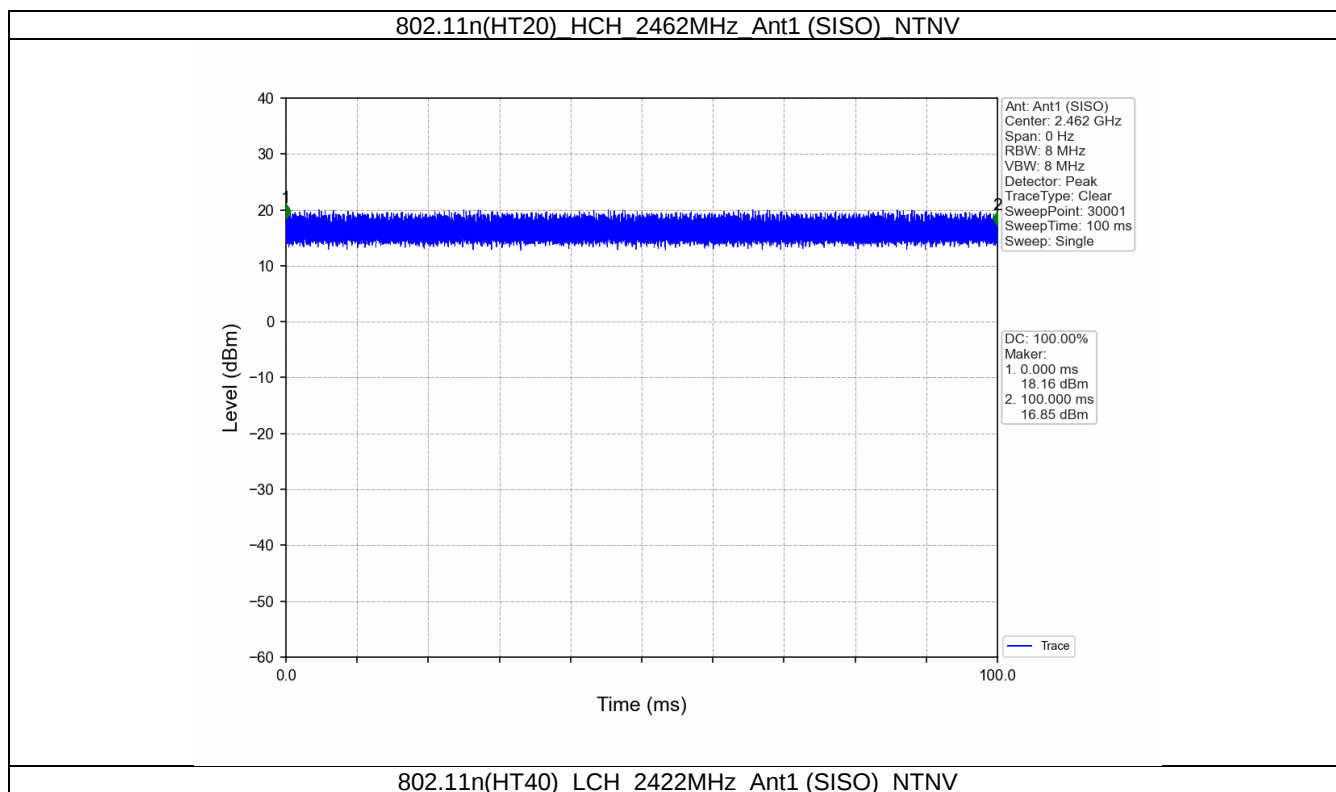
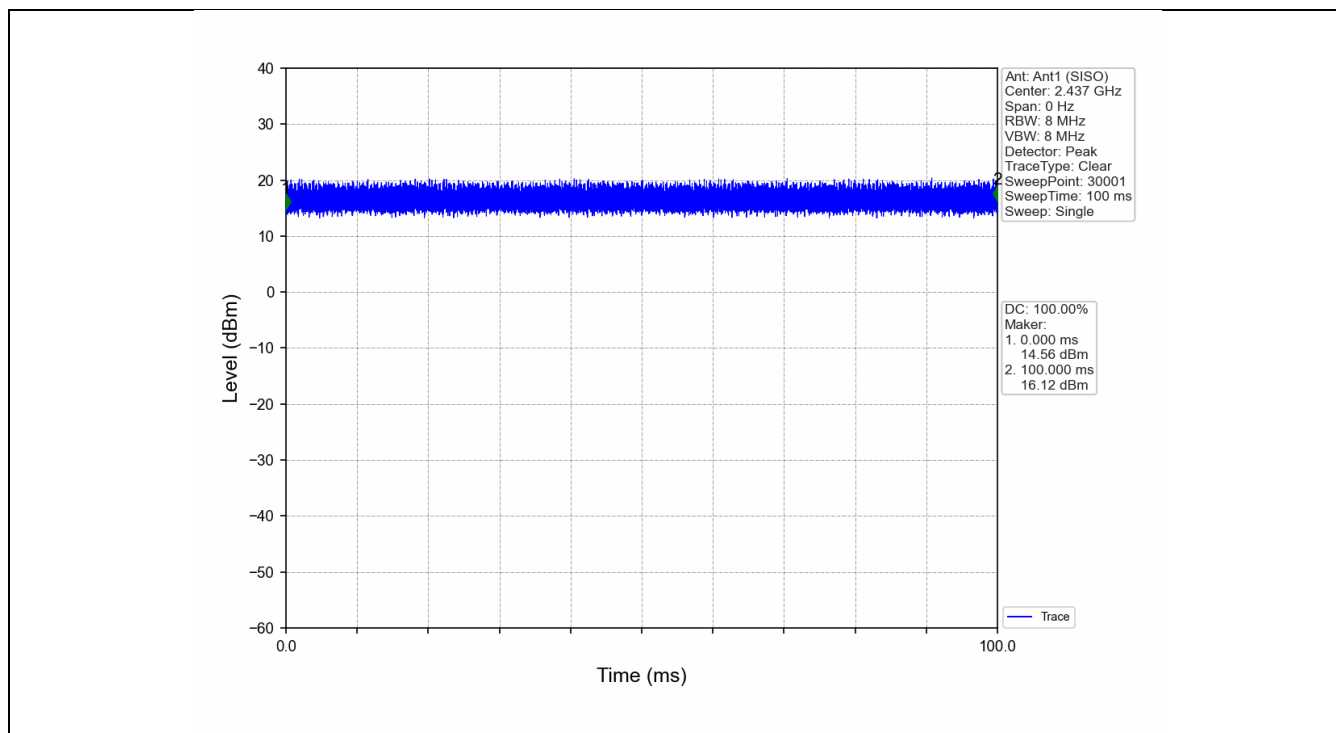
1.1.2 Test Graph

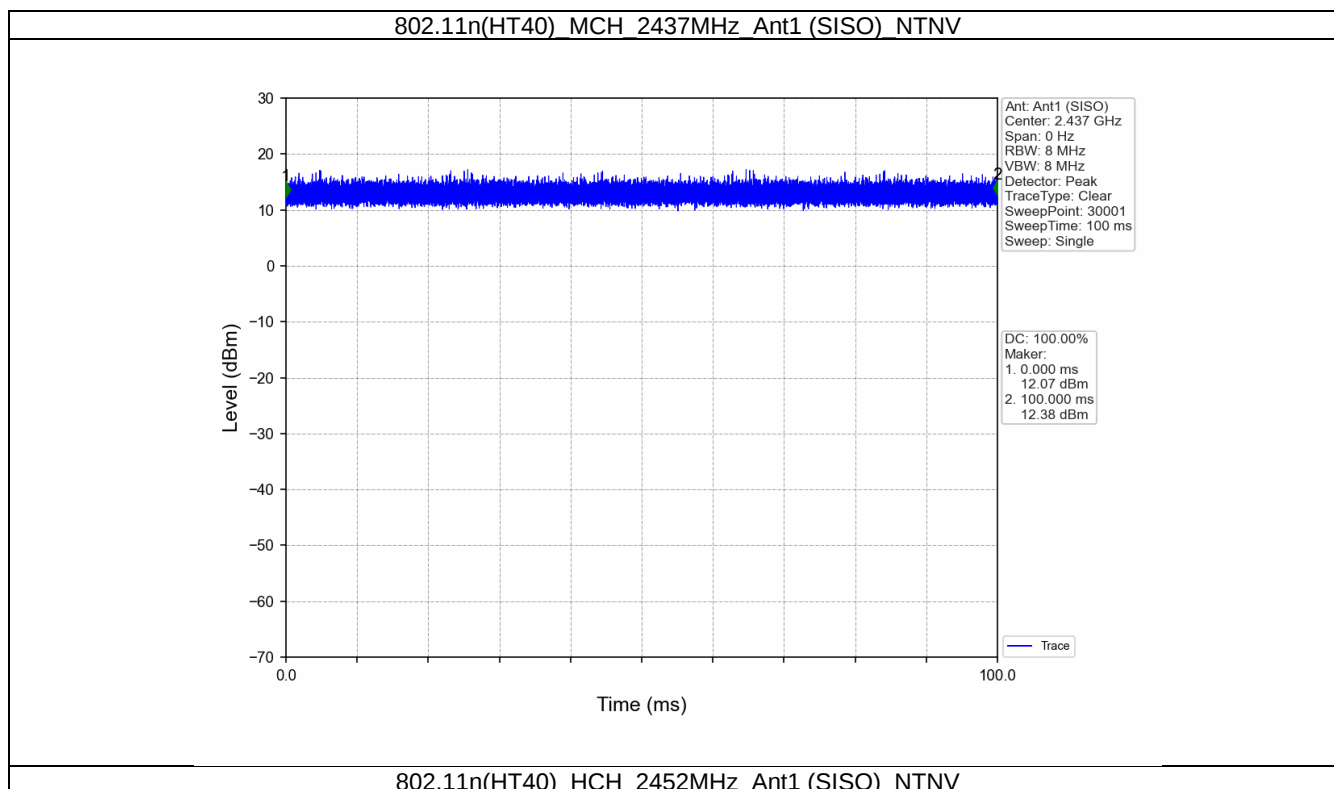
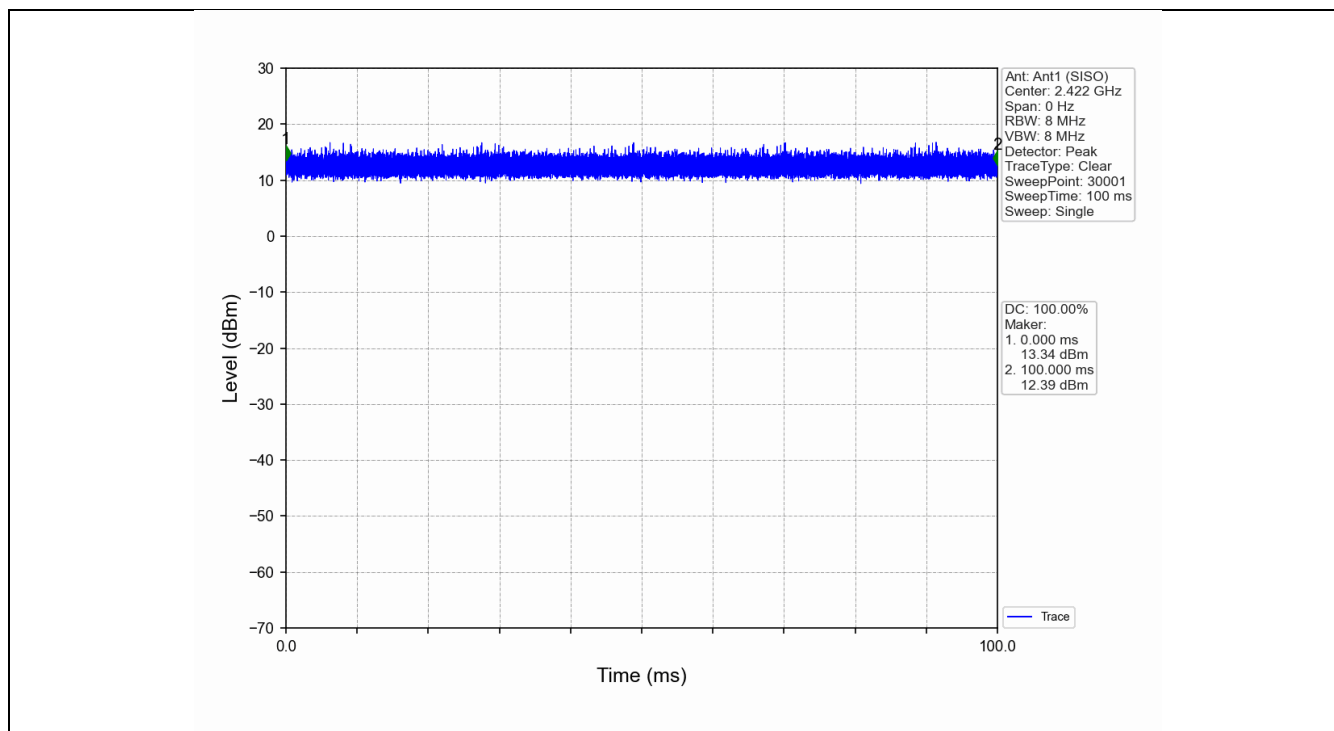


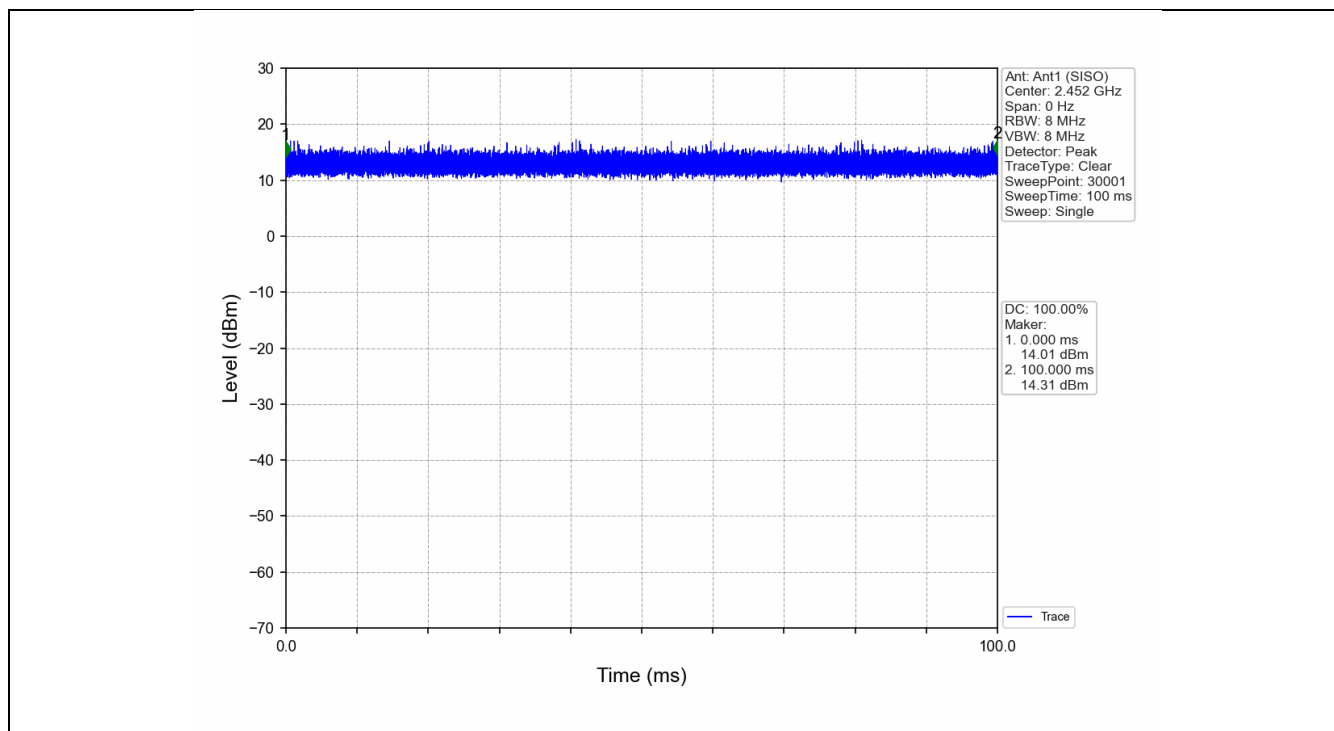












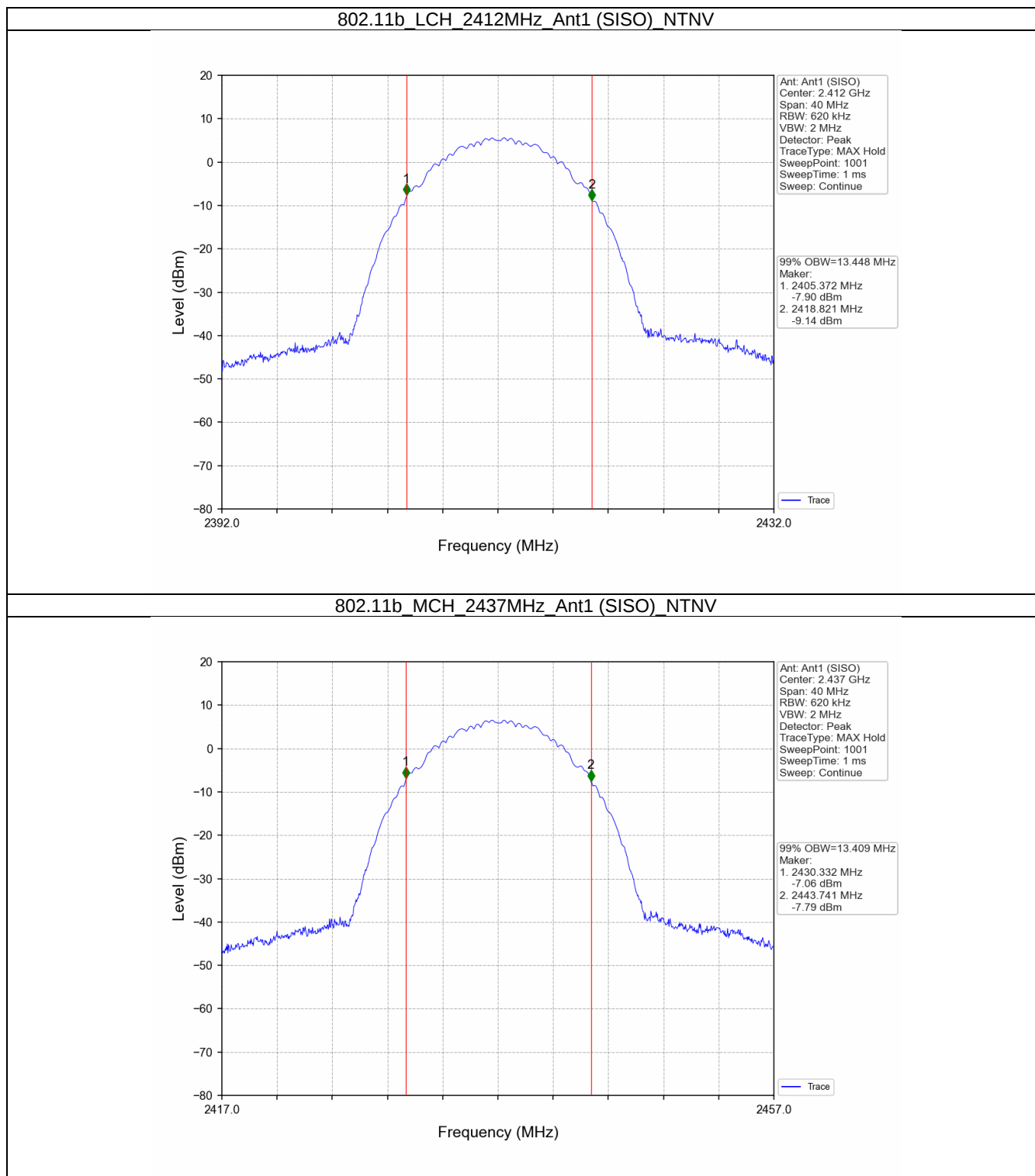
2. Bandwidth

2.1 OBW

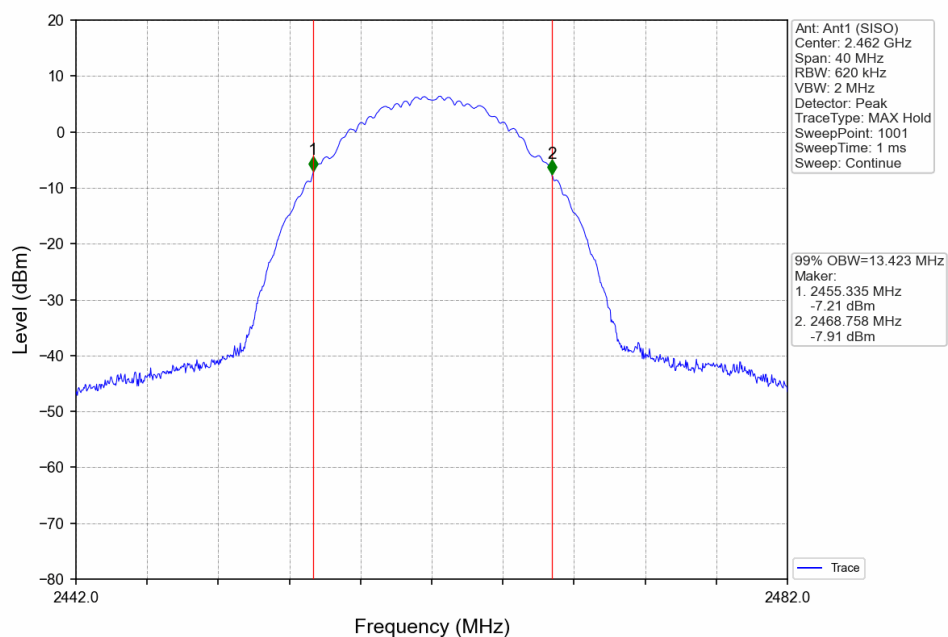
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.448	Pass
		2437	1	13.409	Pass
		2462	1	13.423	Pass
802.11g	SISO	2412	1	17.720	Pass
		2437	1	17.787	Pass
		2462	1	17.808	Pass
802.11n (HT20)	SISO	2412	1	18.514	Pass
		2437	1	18.582	Pass
		2462	1	18.594	Pass
802.11n (HT40)	SISO	2422	1	36.871	Pass
		2437	1	36.870	Pass
		2452	1	36.917	Pass

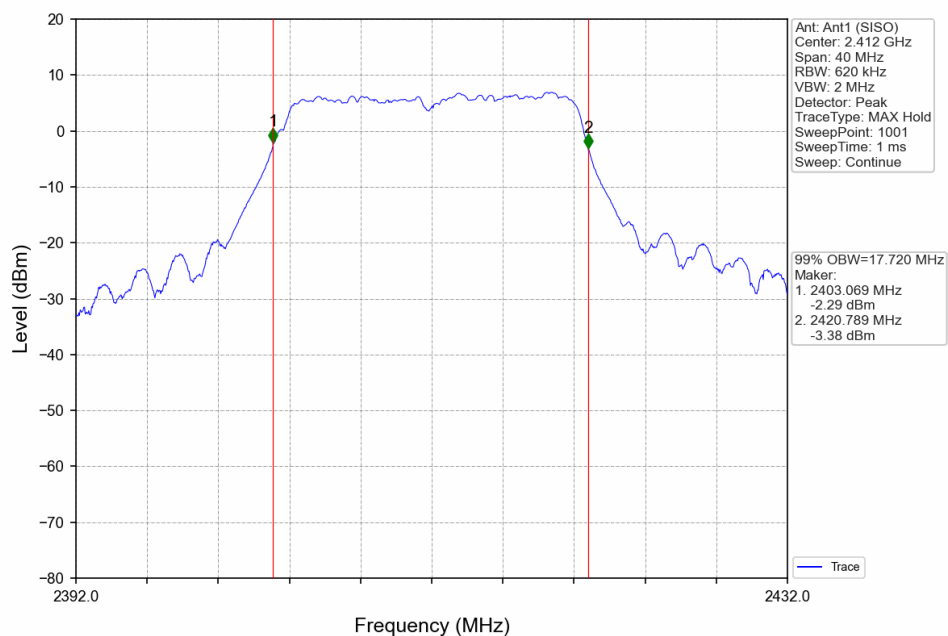
2.1.2 Test Graph



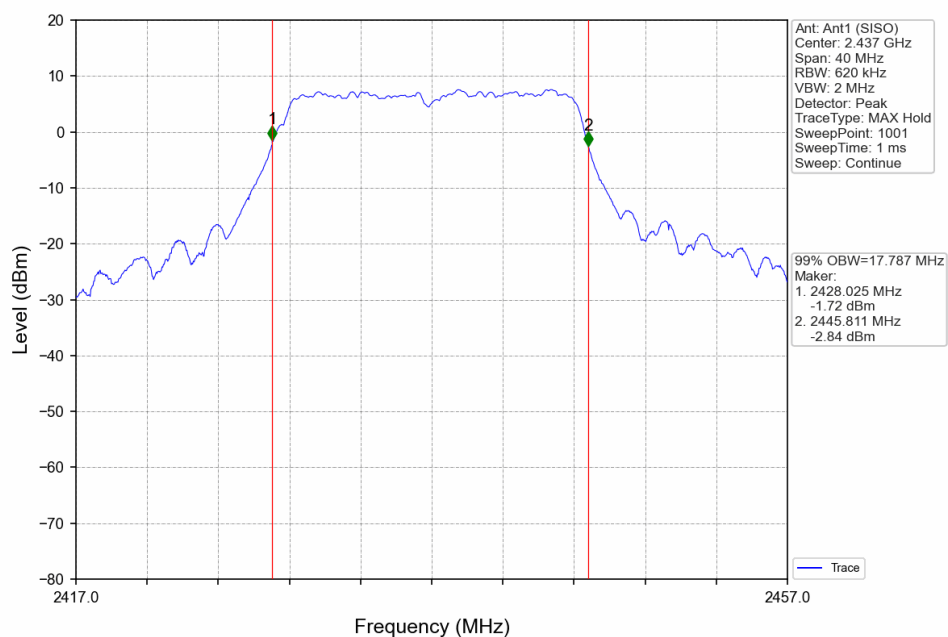
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



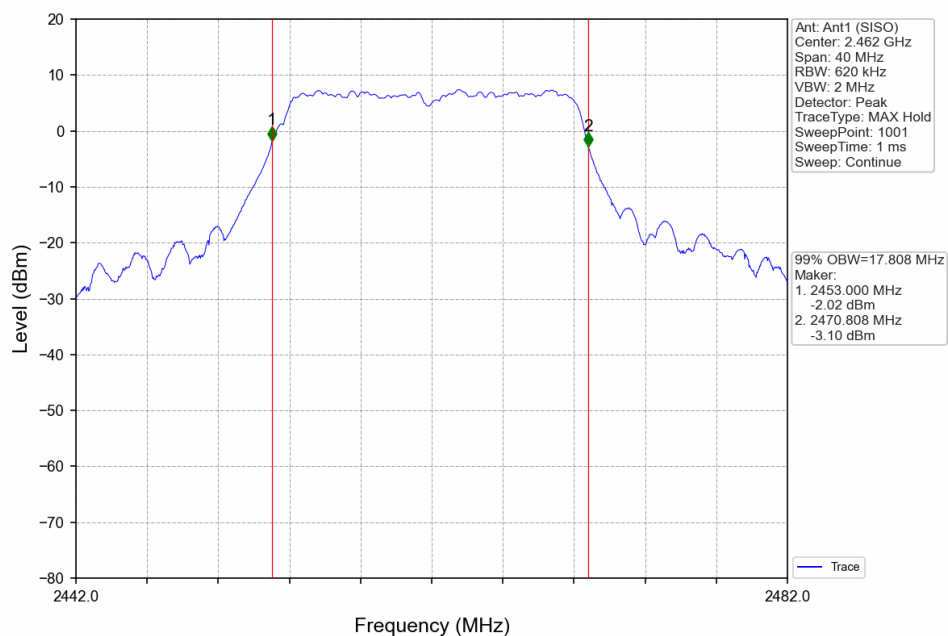
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



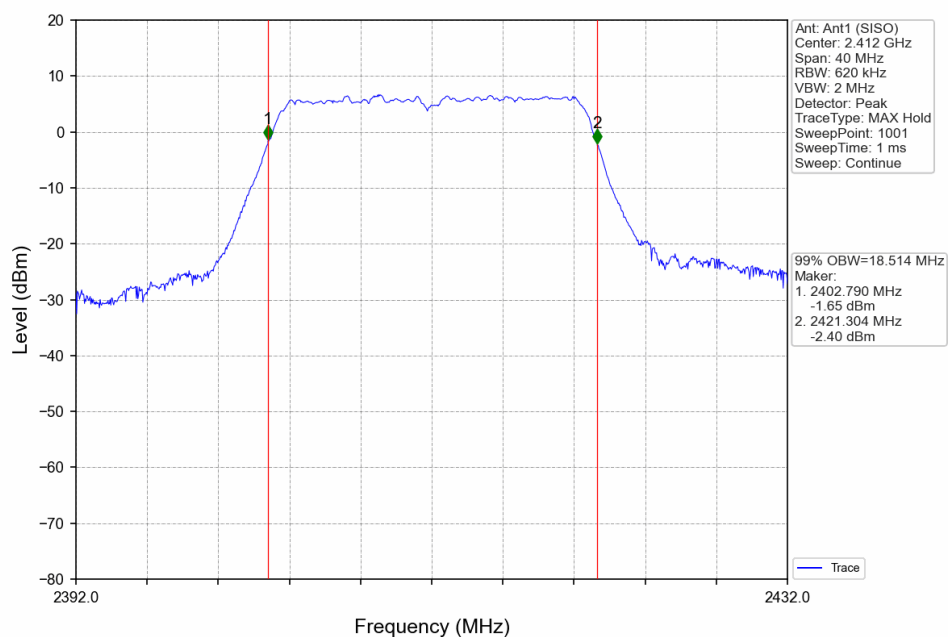
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



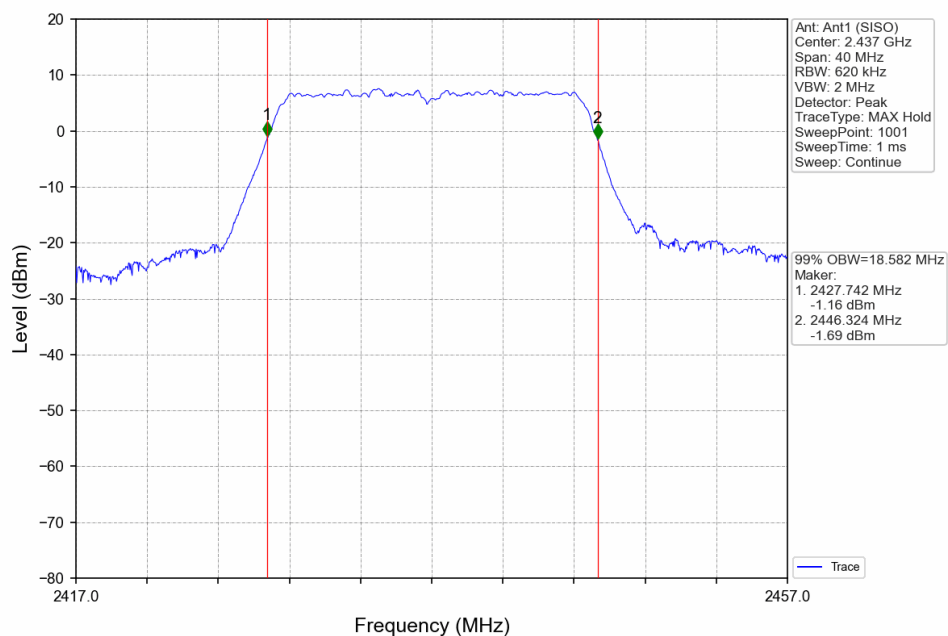
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



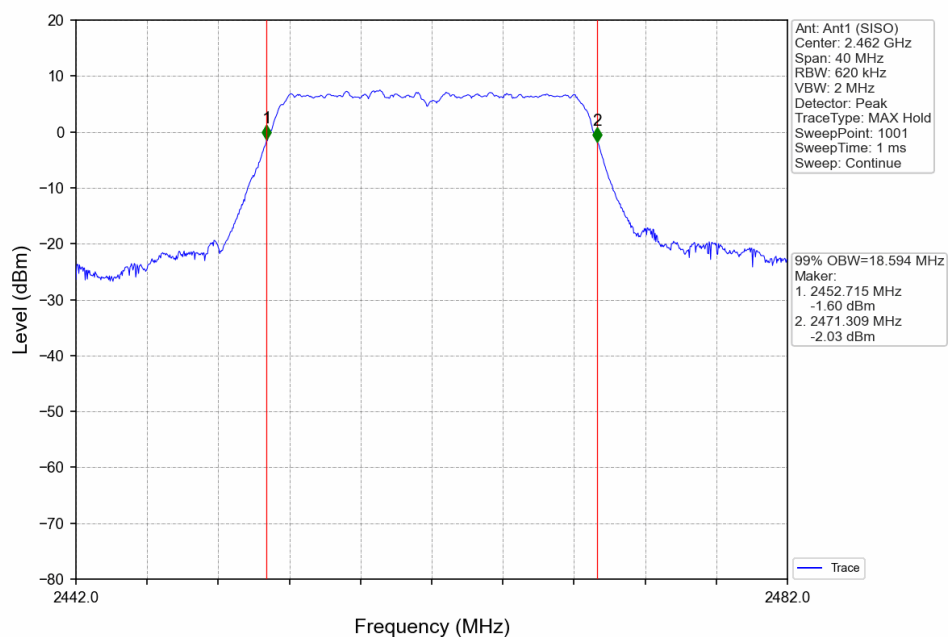
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



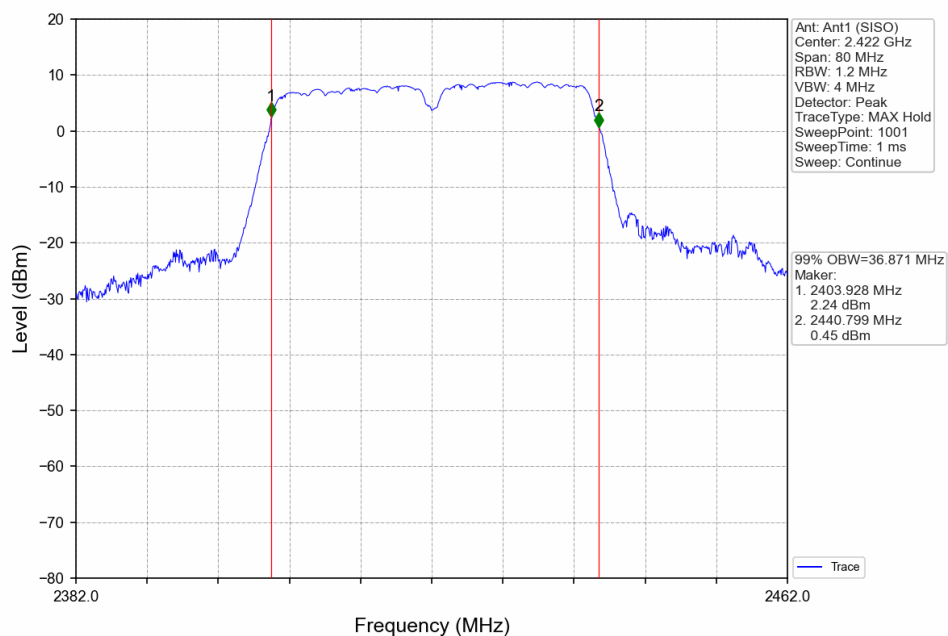
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



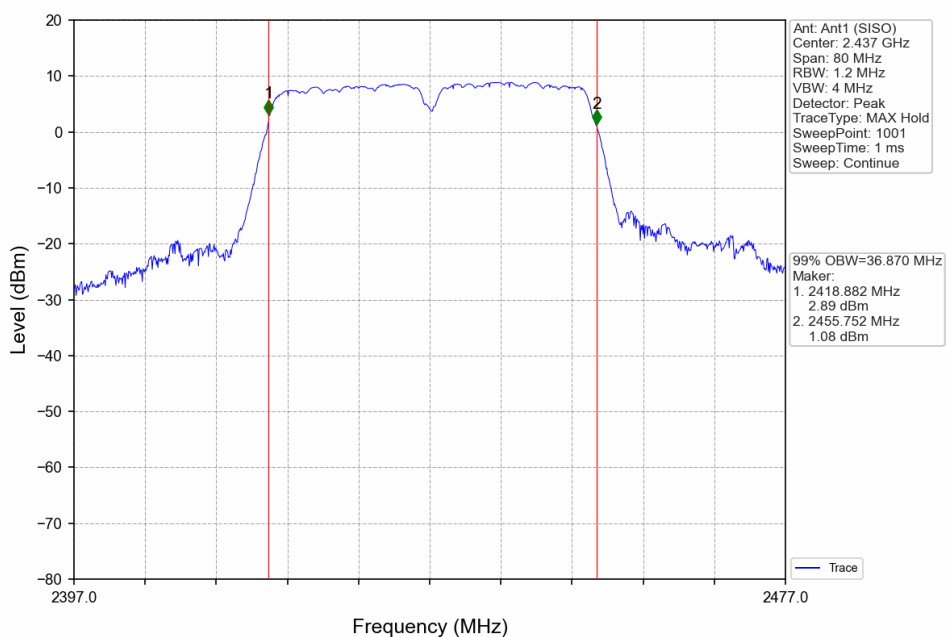
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



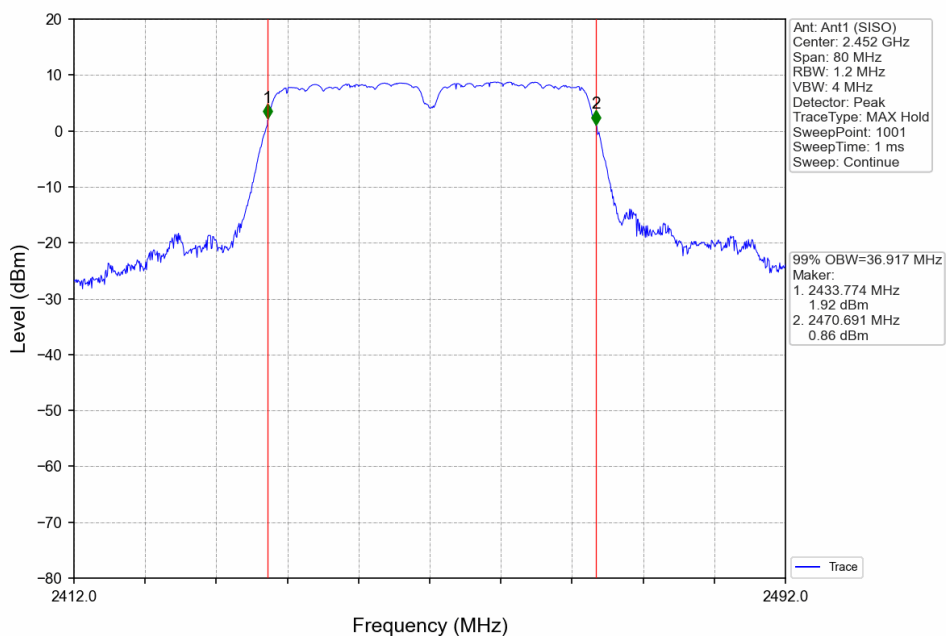
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

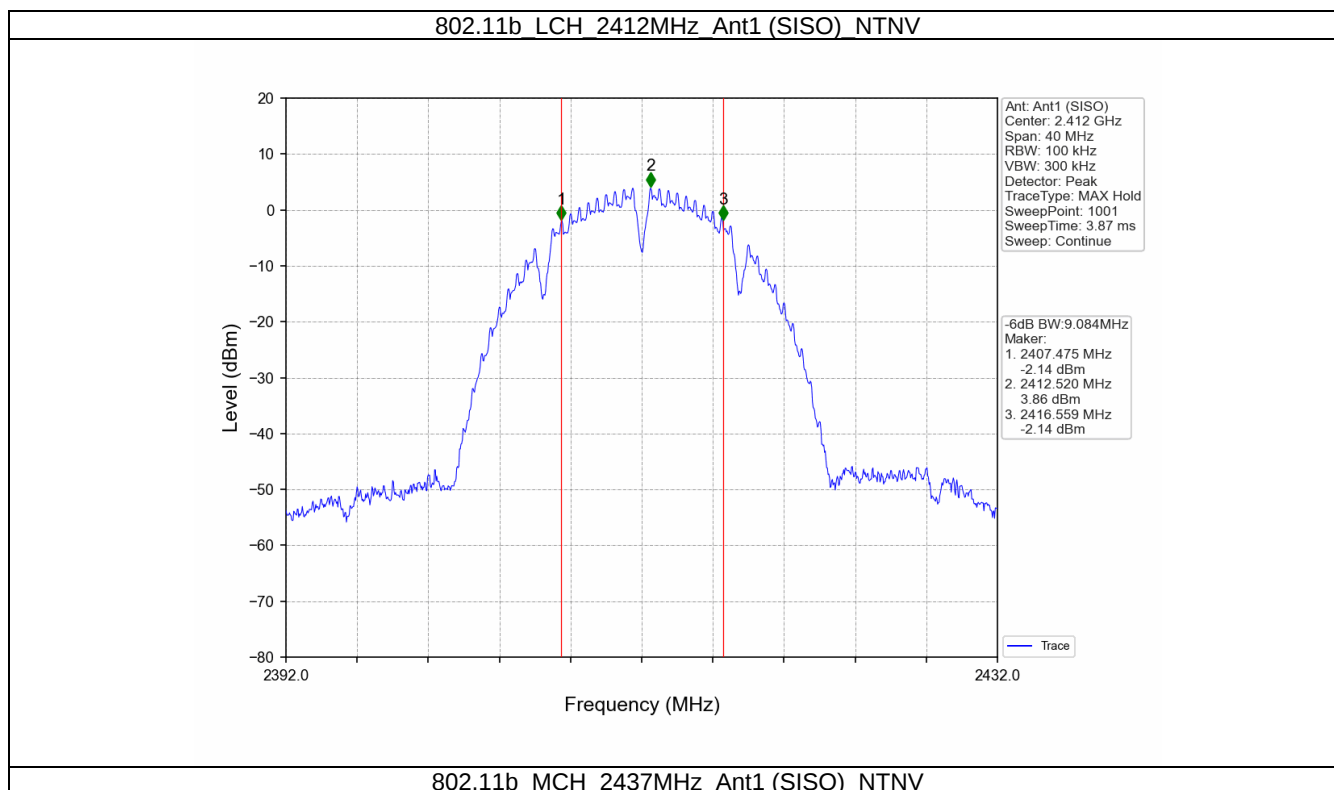


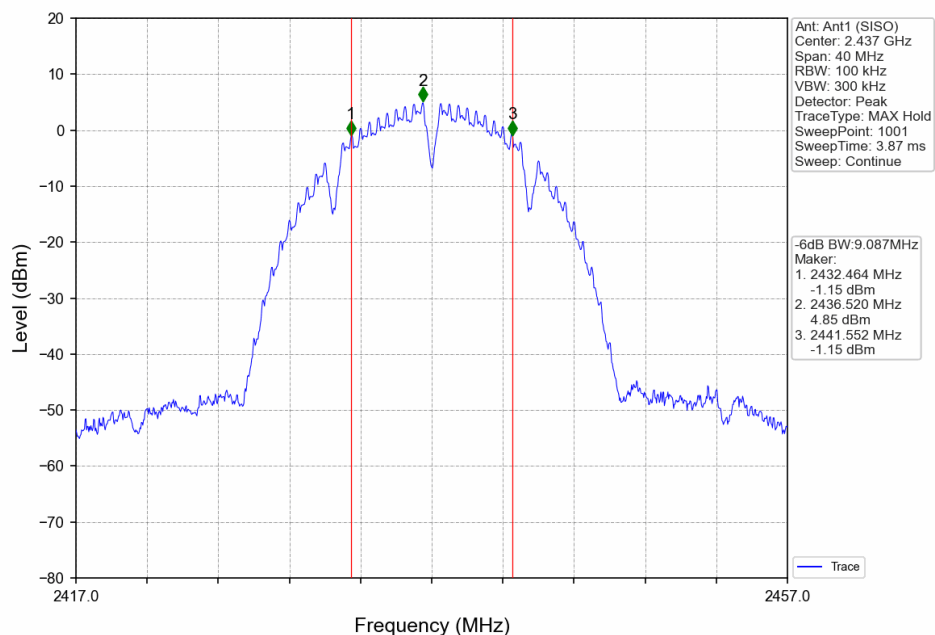
2.2 6dB BW

2.2.1 Test Result

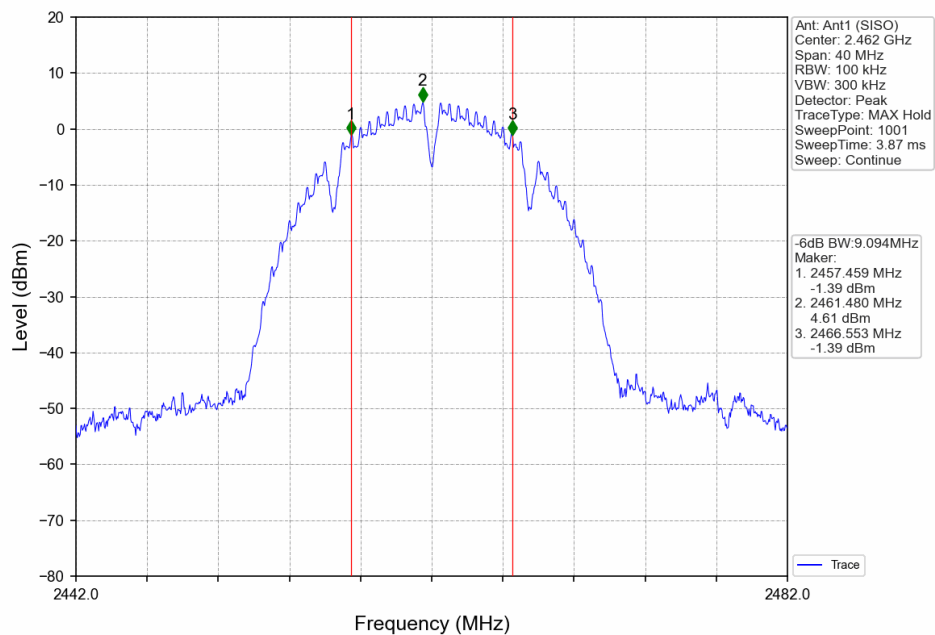
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.084	≥ 0.5	Pass
		2437	1	9.087	≥ 0.5	Pass
		2462	1	9.094	≥ 0.5	Pass
802.11g	SISO	2412	1	16.591	≥ 0.5	Pass
		2437	1	16.593	≥ 0.5	Pass
		2462	1	16.604	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.813	≥ 0.5	Pass
		2437	1	17.811	≥ 0.5	Pass
		2462	1	17.822	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.433	≥ 0.5	Pass
		2437	1	36.474	≥ 0.5	Pass
		2452	1	36.487	≥ 0.5	Pass

2.2.2 Test Graph

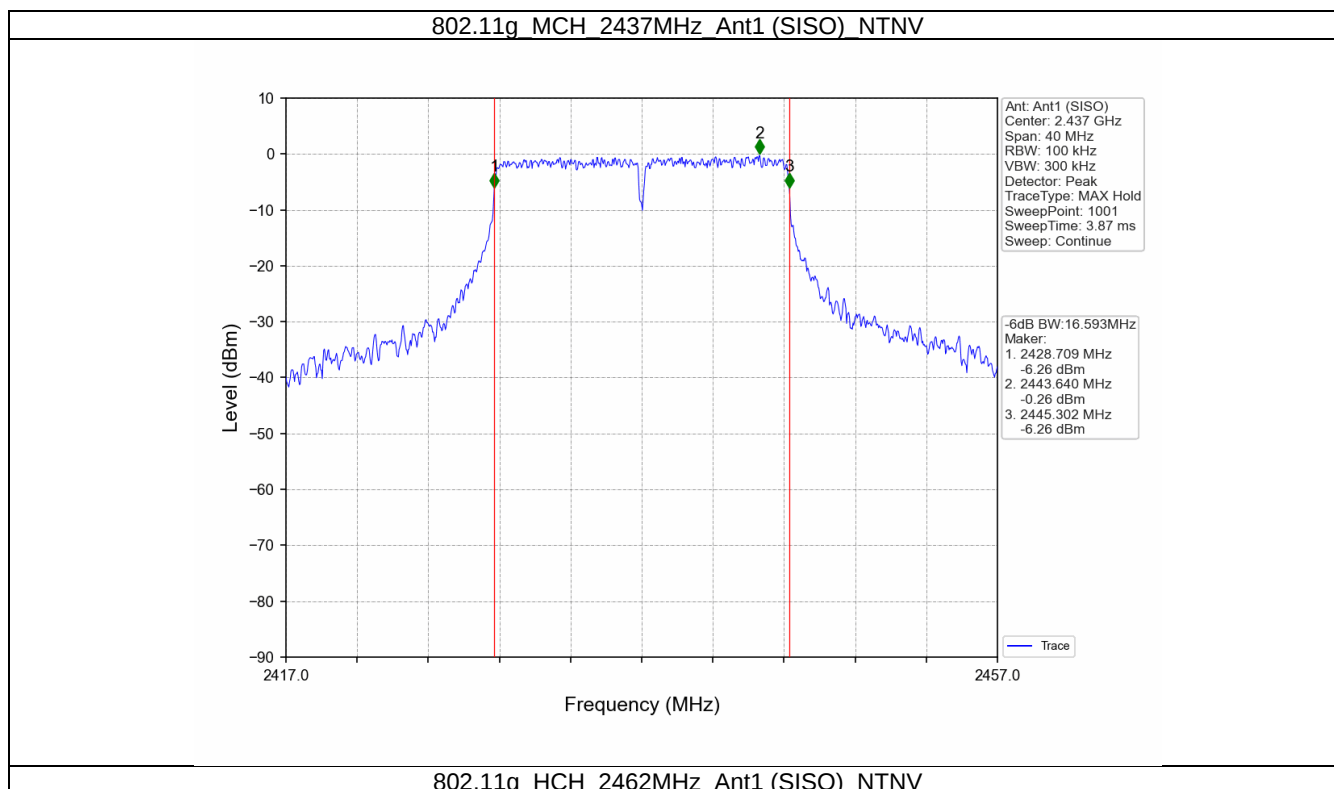
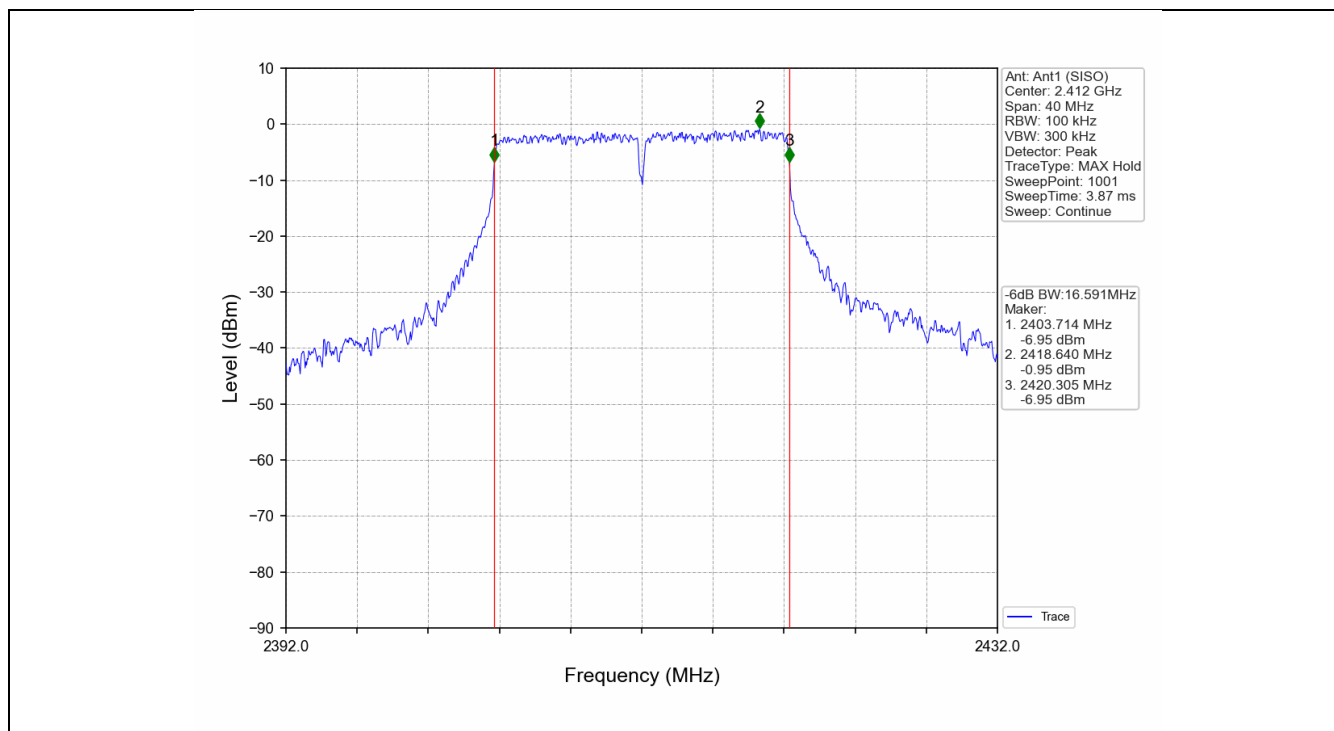


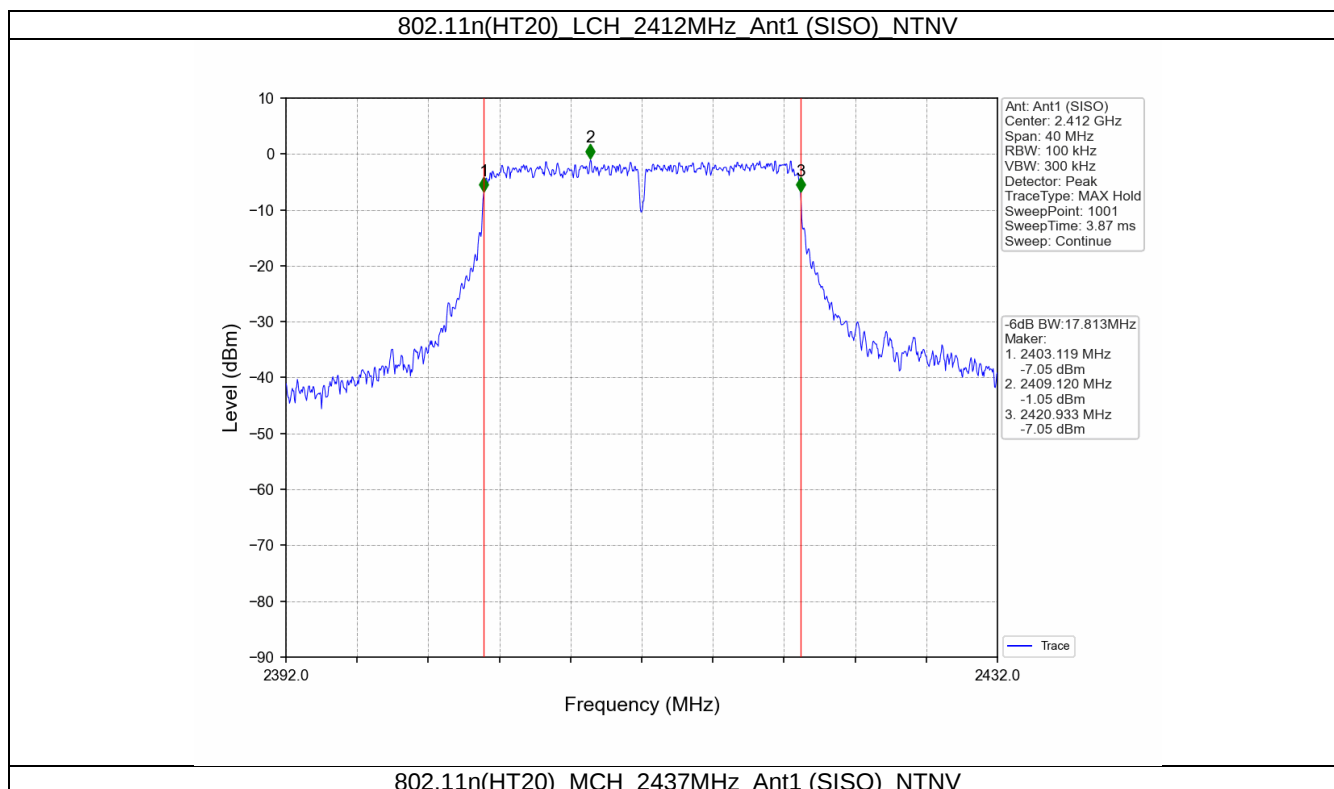
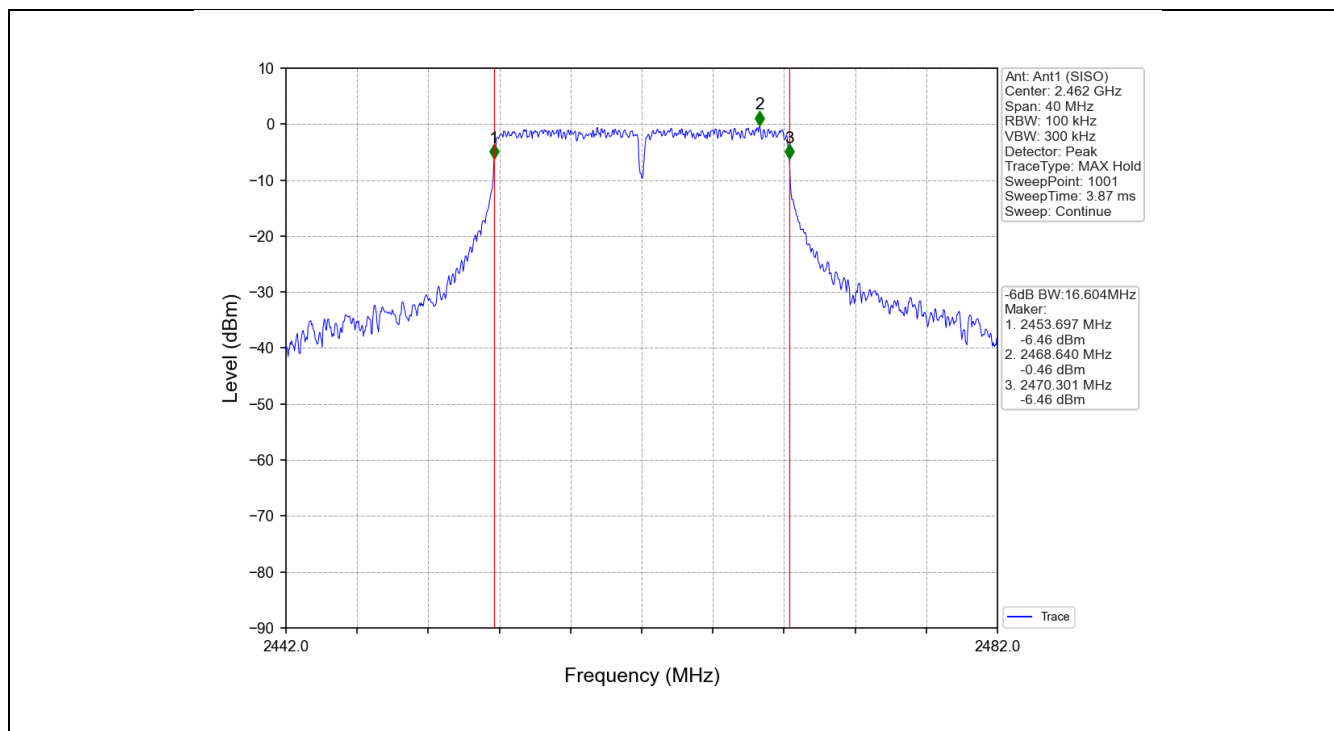


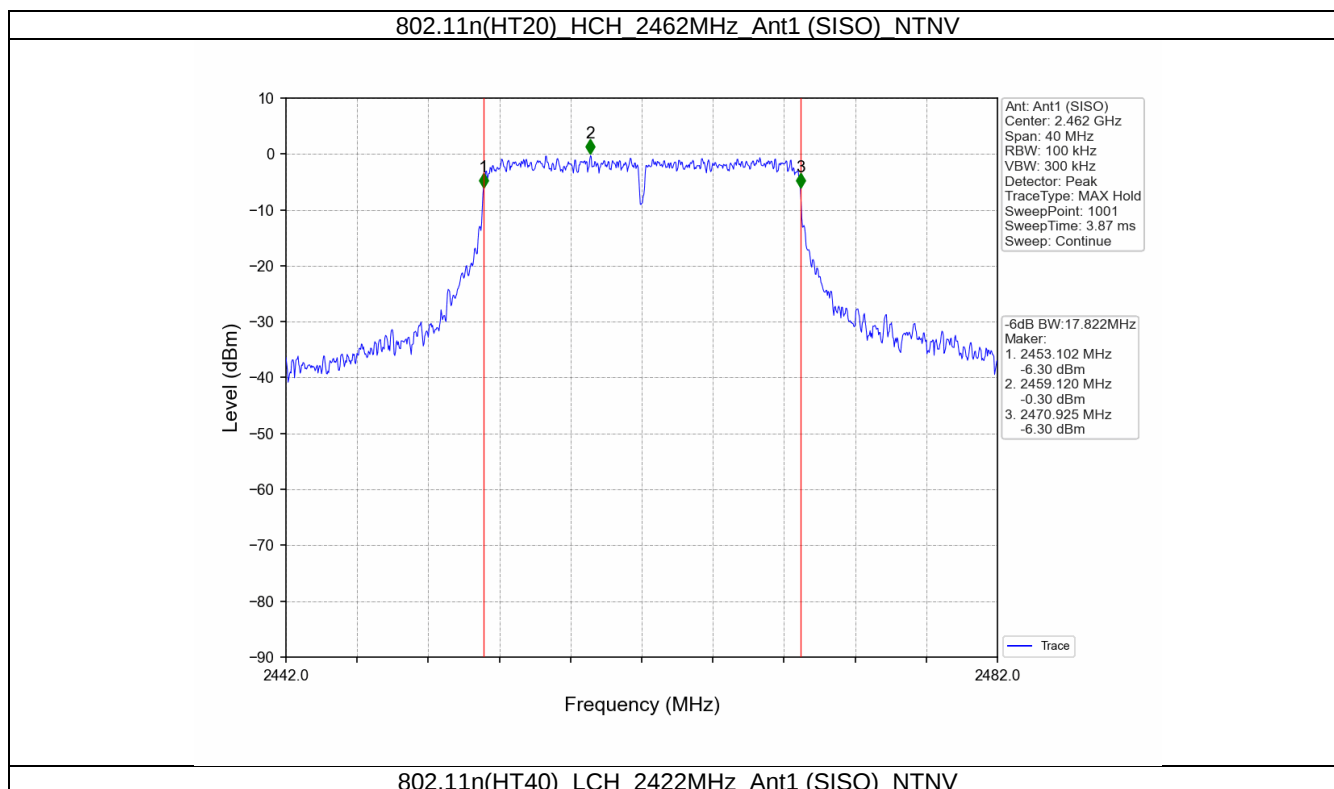
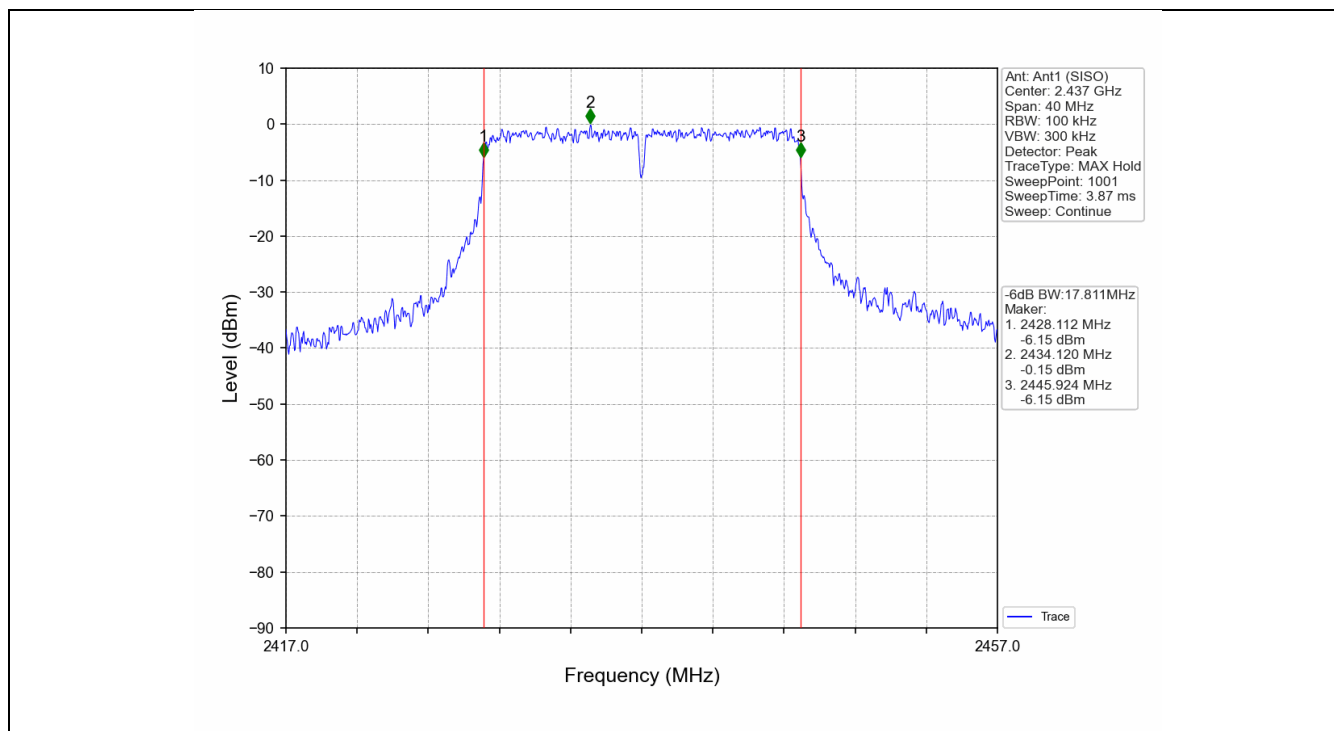
802.11b HCH 2462MHz Ant1 (SISO) NTN

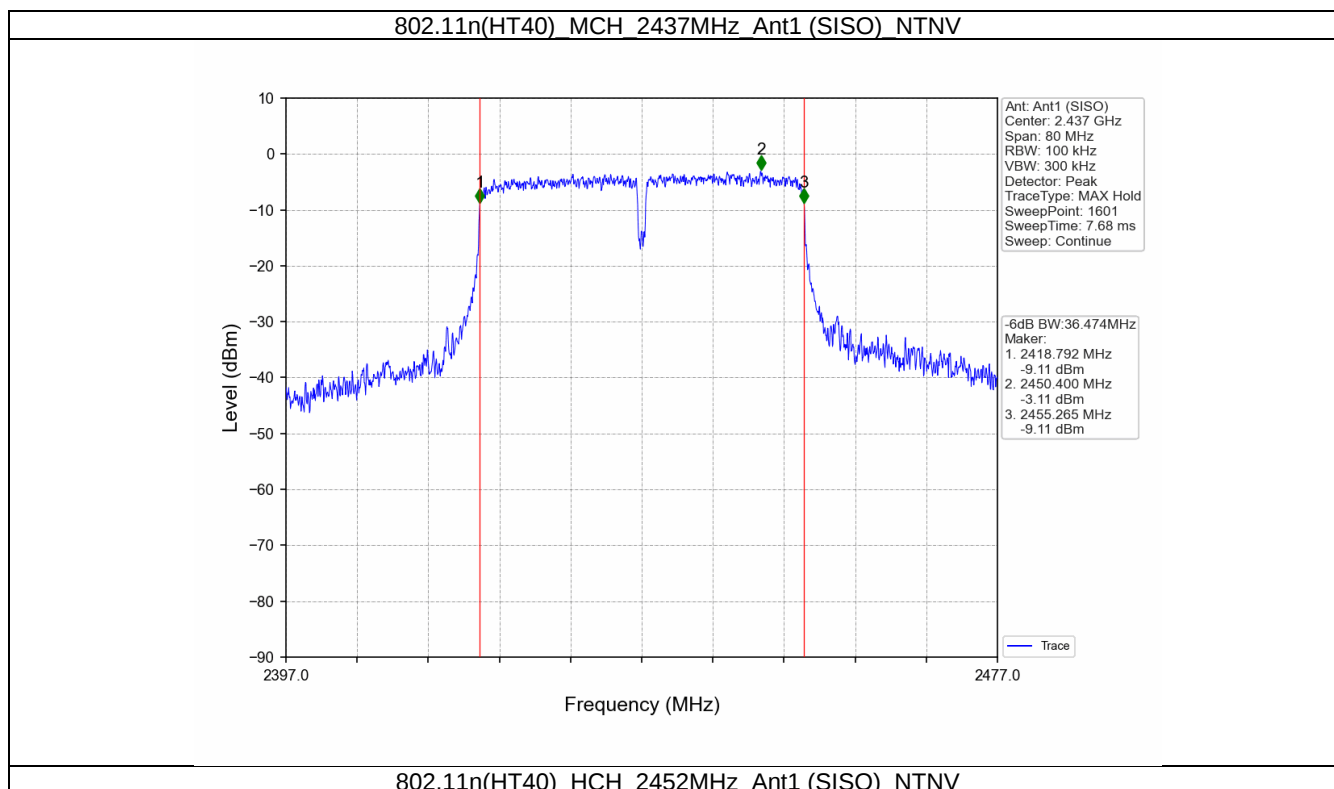
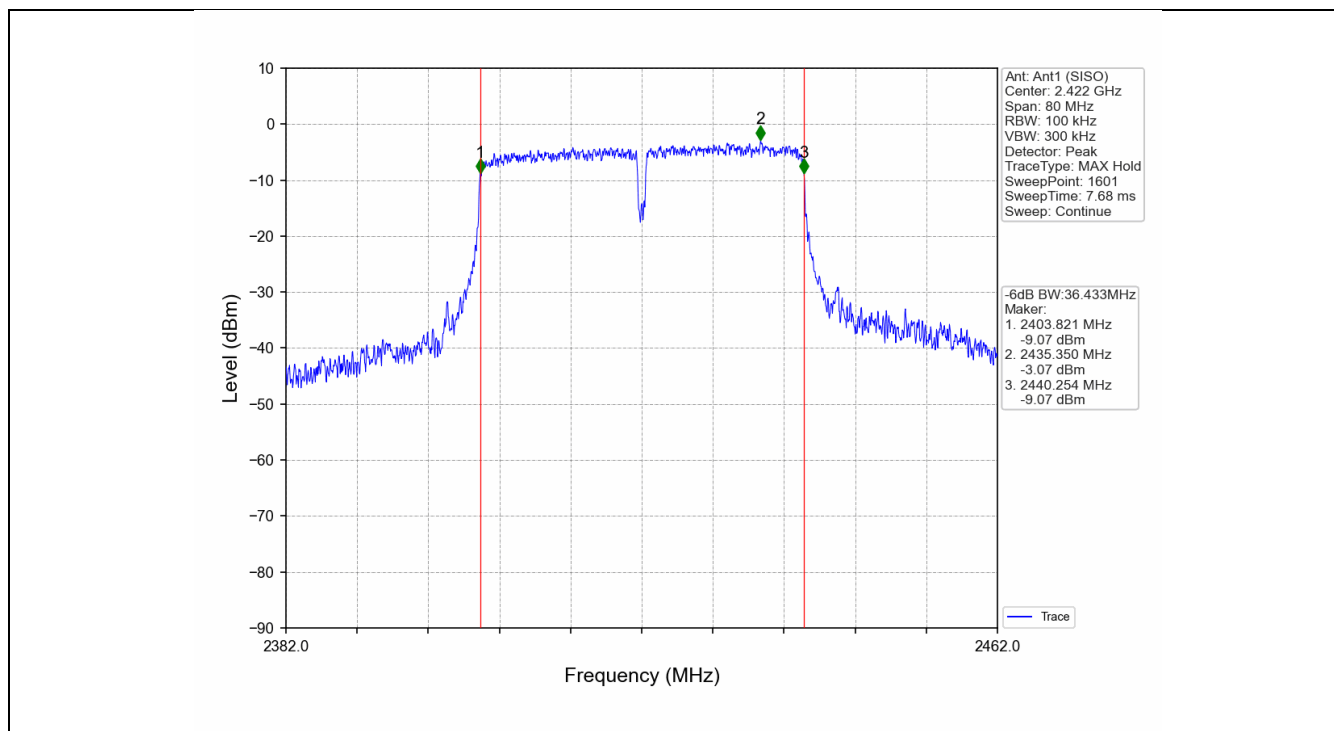


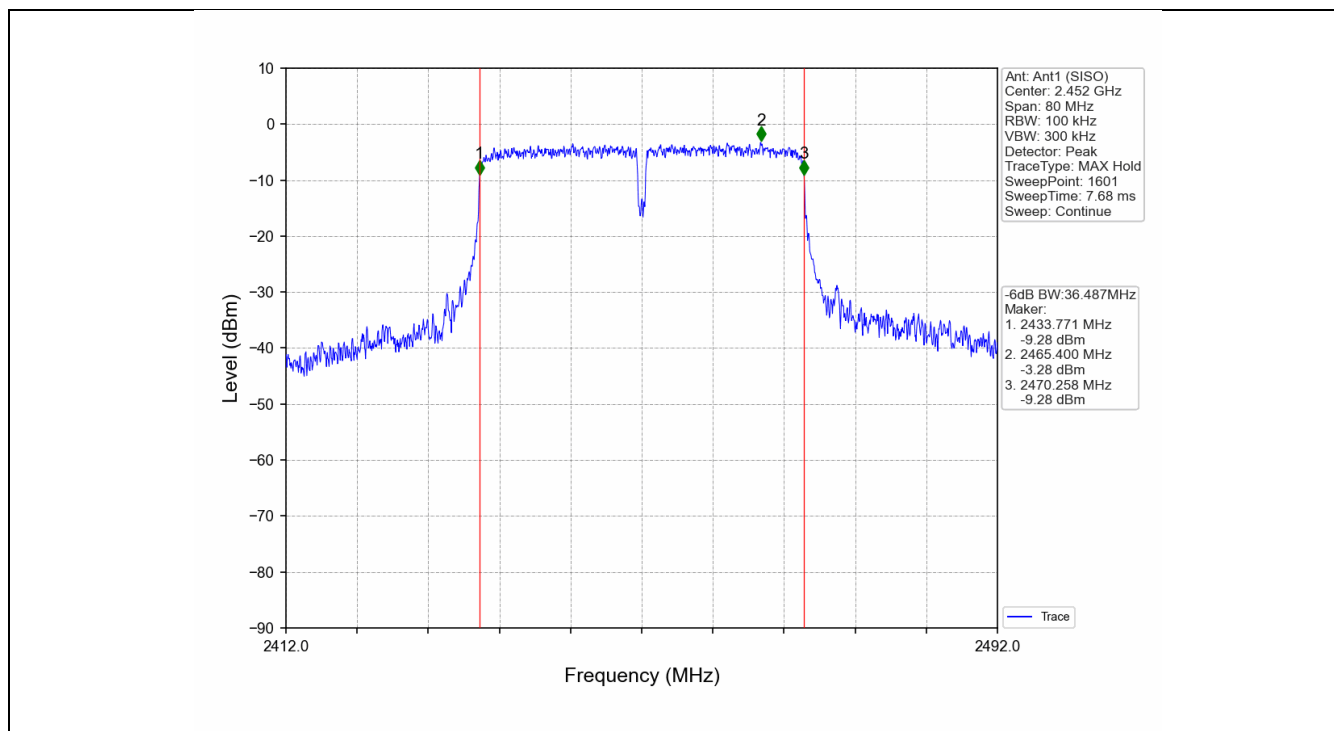
802.11g LCH 2412MHz Ant1 (SISO) NTN











3. Maximum Conducted Output Power

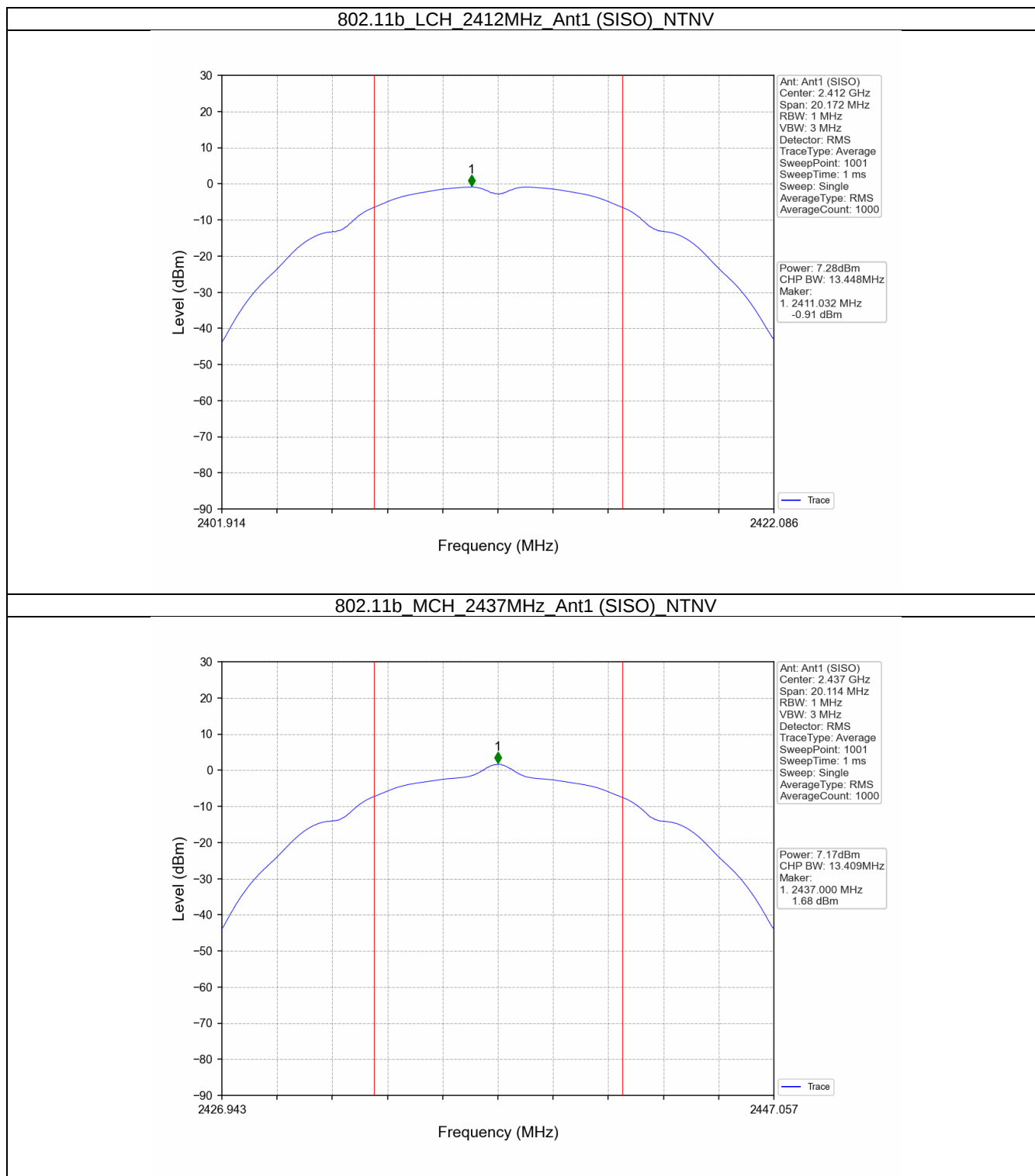
3.1 Power

3.1.1 Test Result

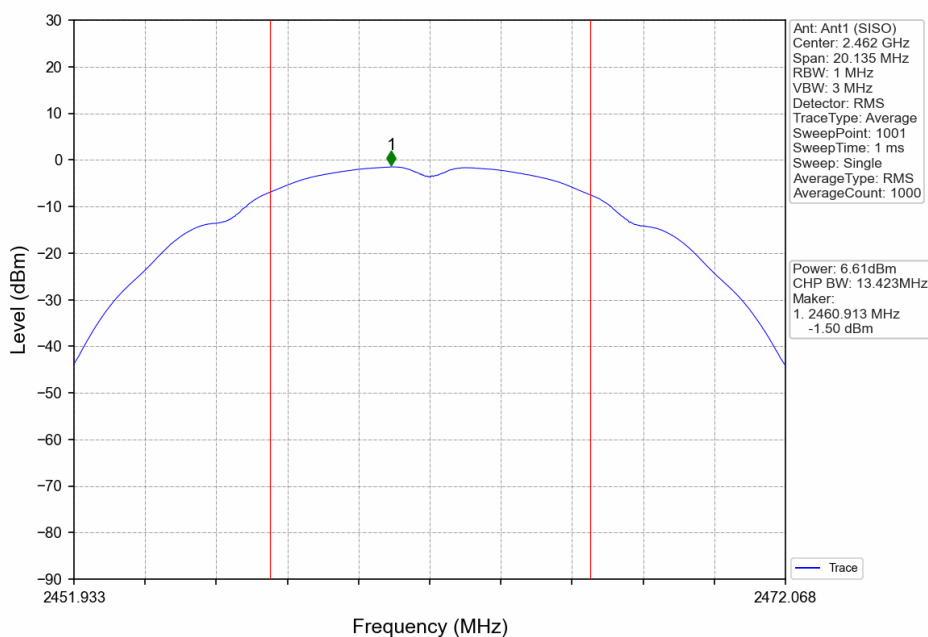
Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	7.28	<=30	Pass
		2437	7.17	<=30	Pass
		2462	6.61	<=30	Pass
802.11g	SISO	2412	7.79	<=30	Pass
		2437	7.22	<=30	Pass
		2462	7.70	<=30	Pass
802.11n (HT20)	SISO	2412	7.80	<=30	Pass
		2437	7.22	<=30	Pass
		2462	7.76	<=30	Pass
802.11n (HT40)	SISO	2422	7.82	<=30	Pass
		2437	7.88	<=30	Pass
		2452	7.93	<=30	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

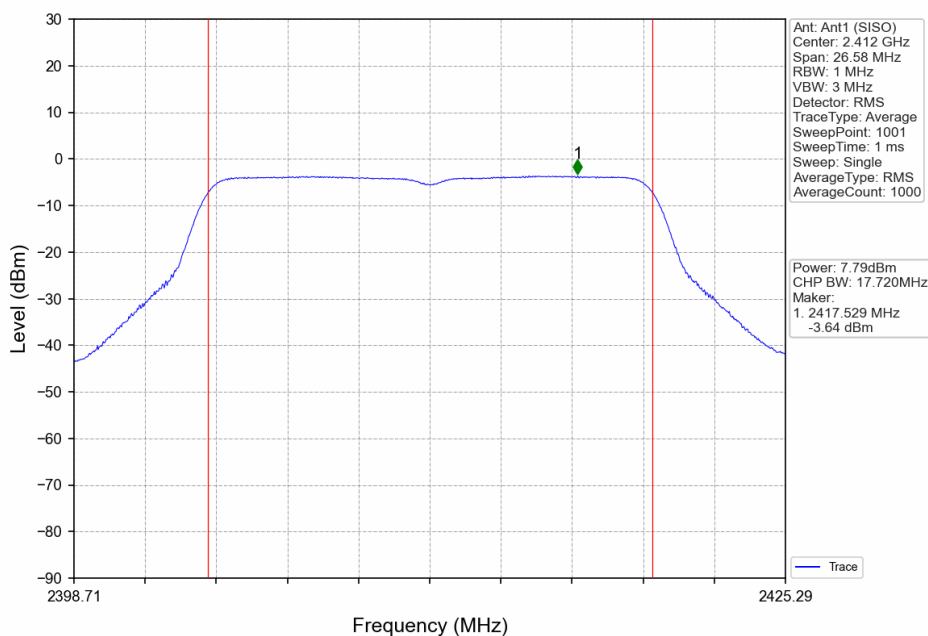
3.1.2 Test Graph



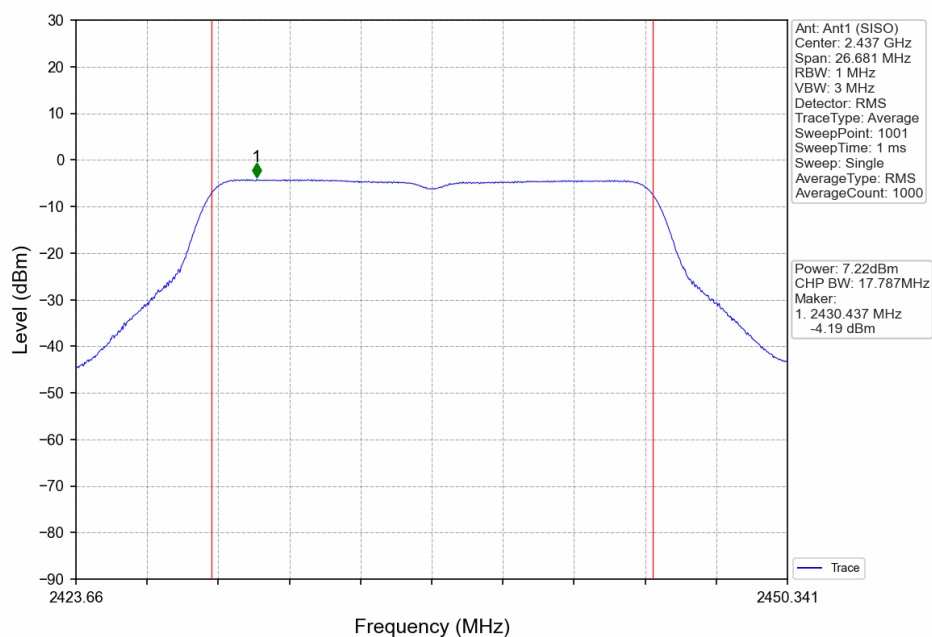
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



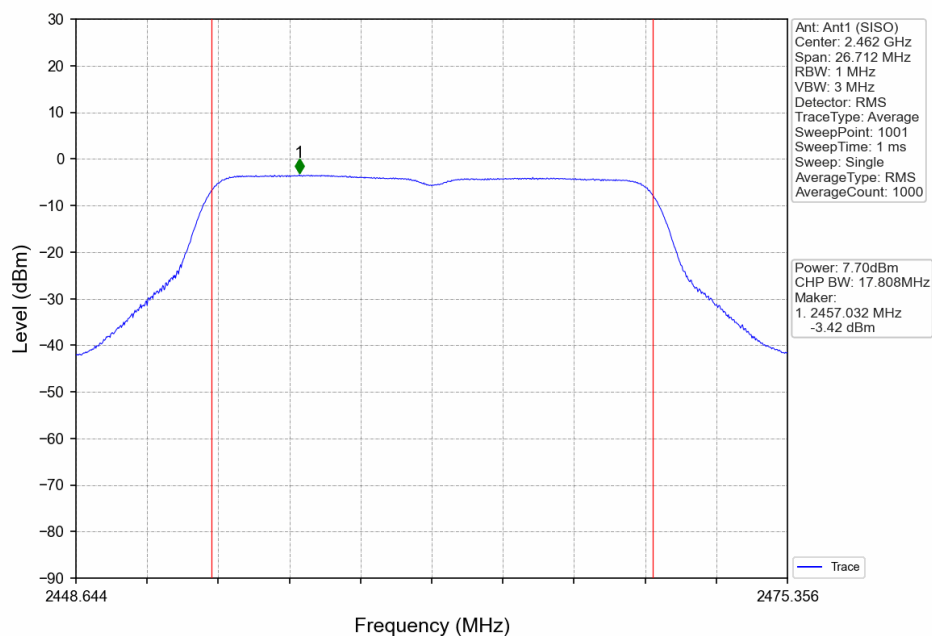
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



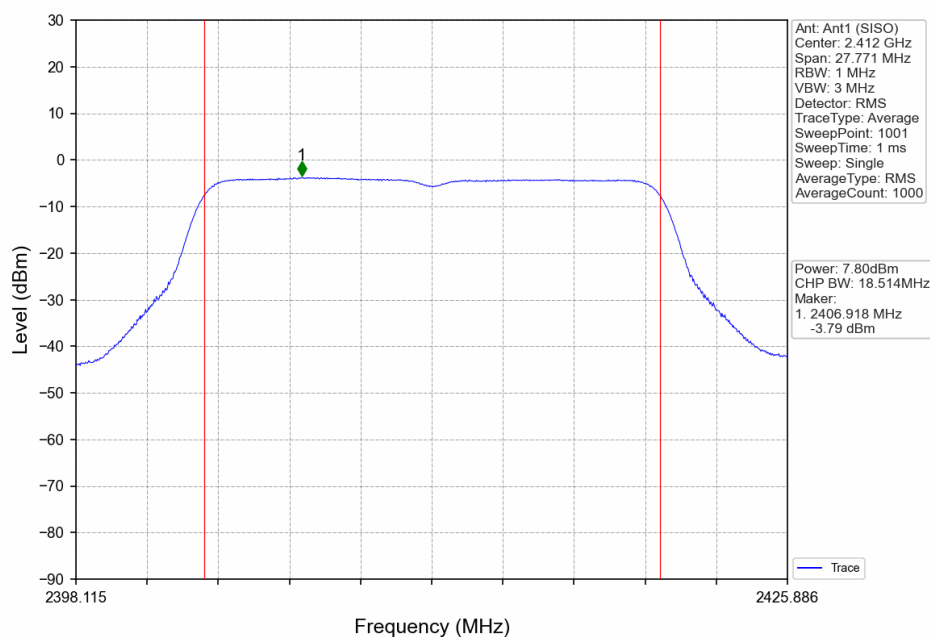
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



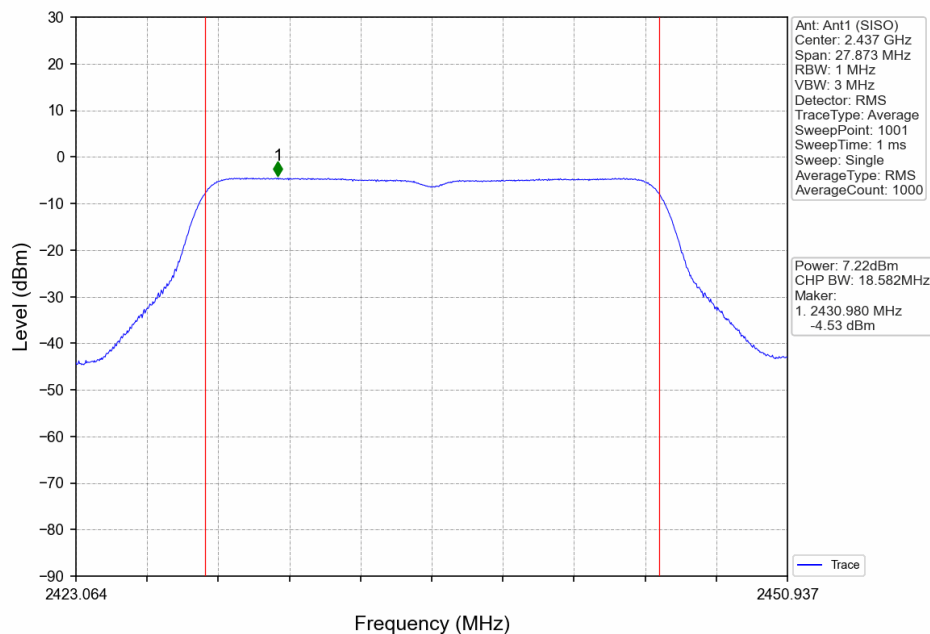
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



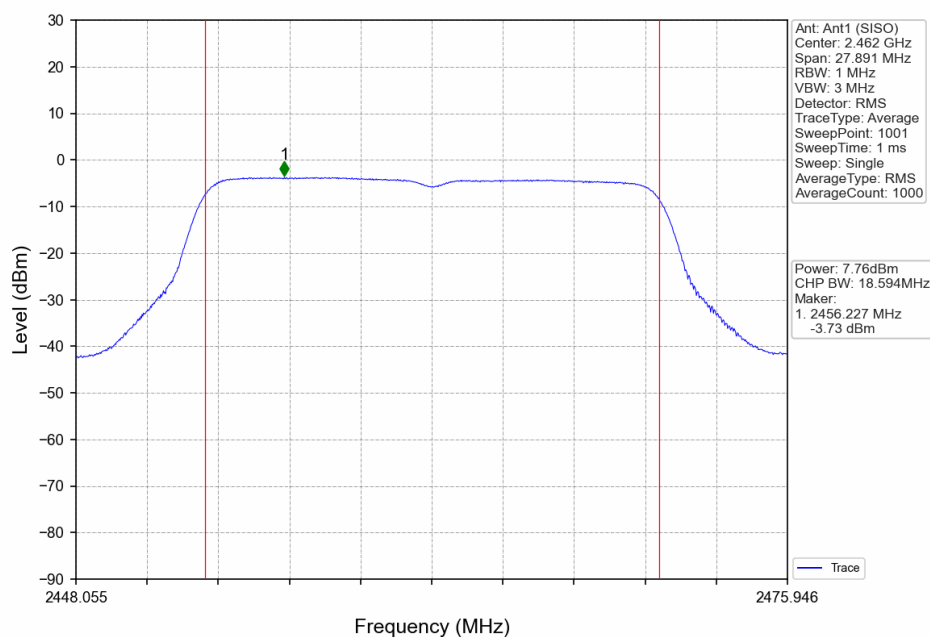
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



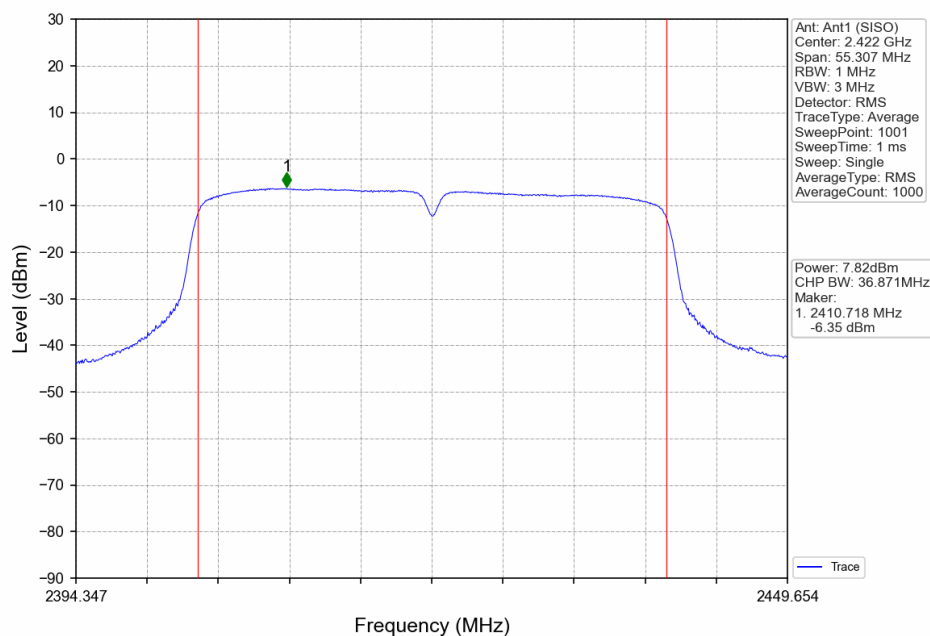
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



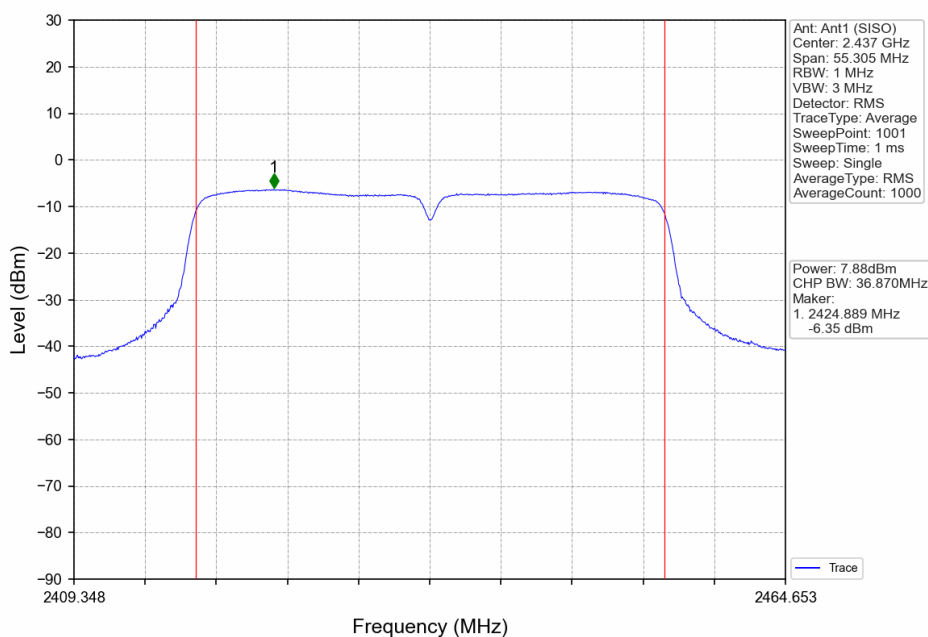
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



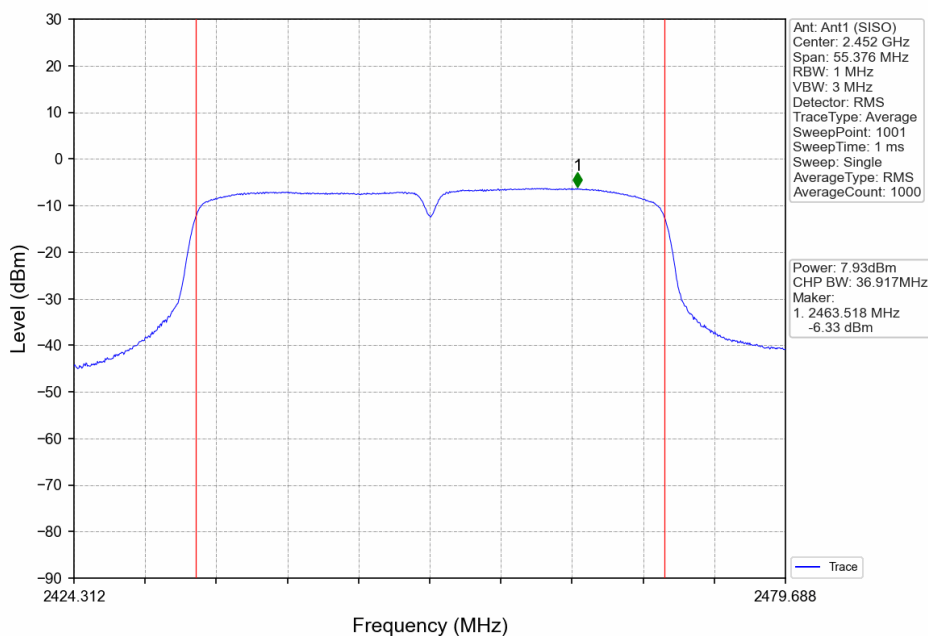
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



4. Maximum Power Spectral Density

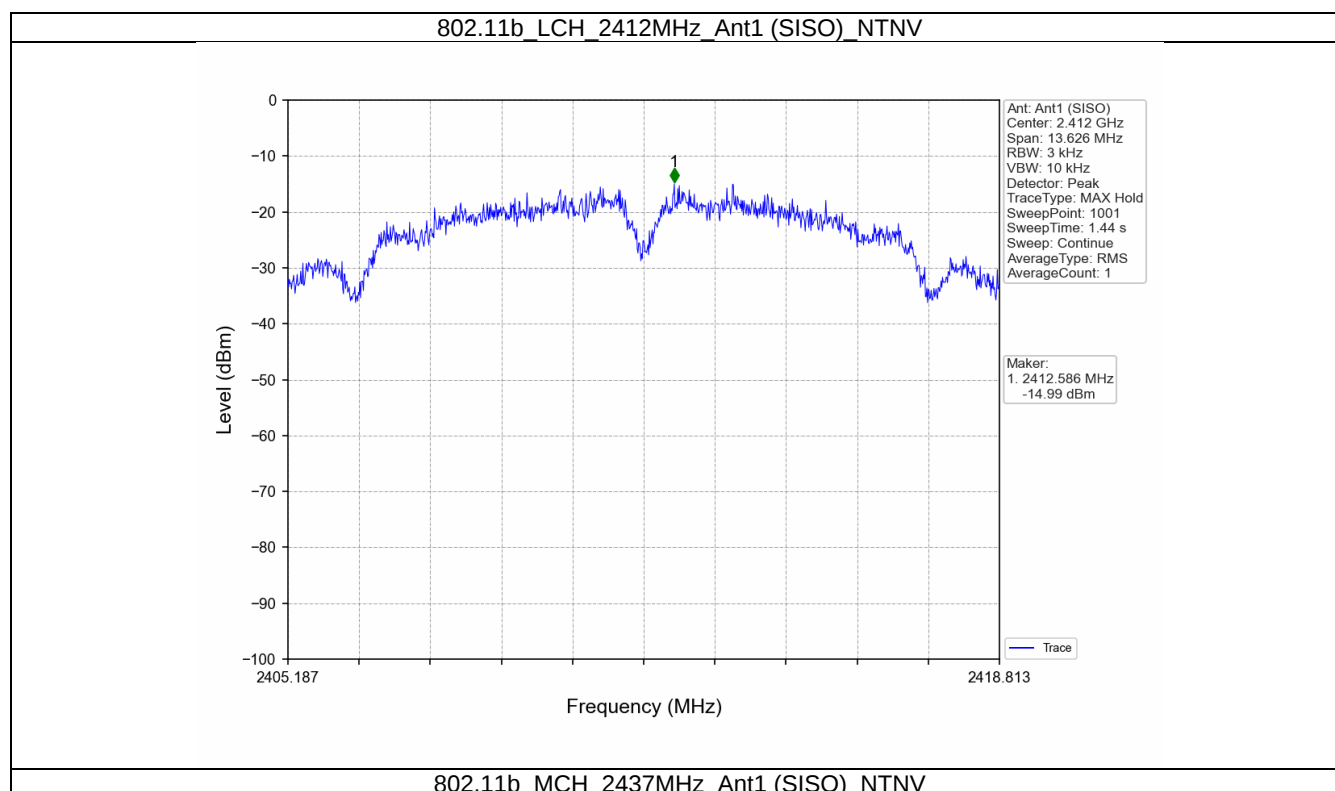
4.1 PSD

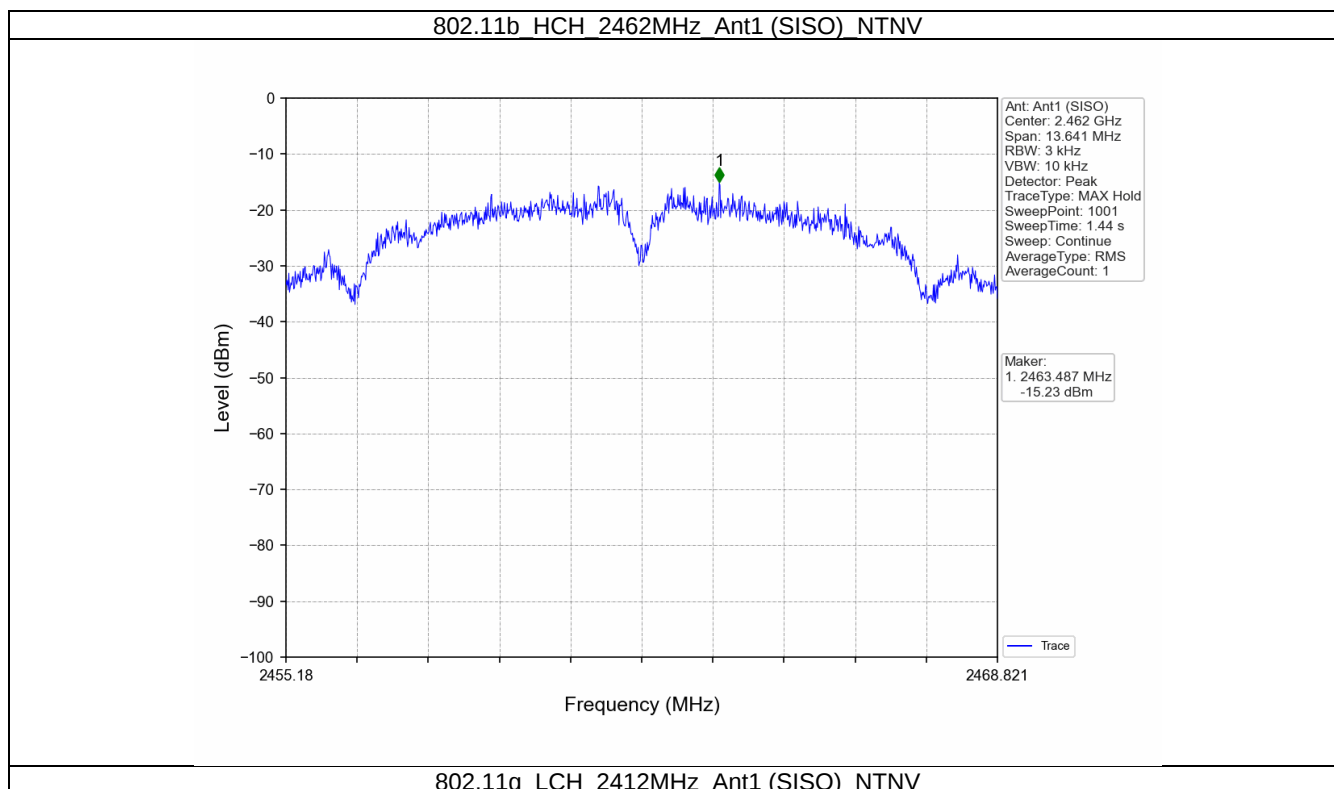
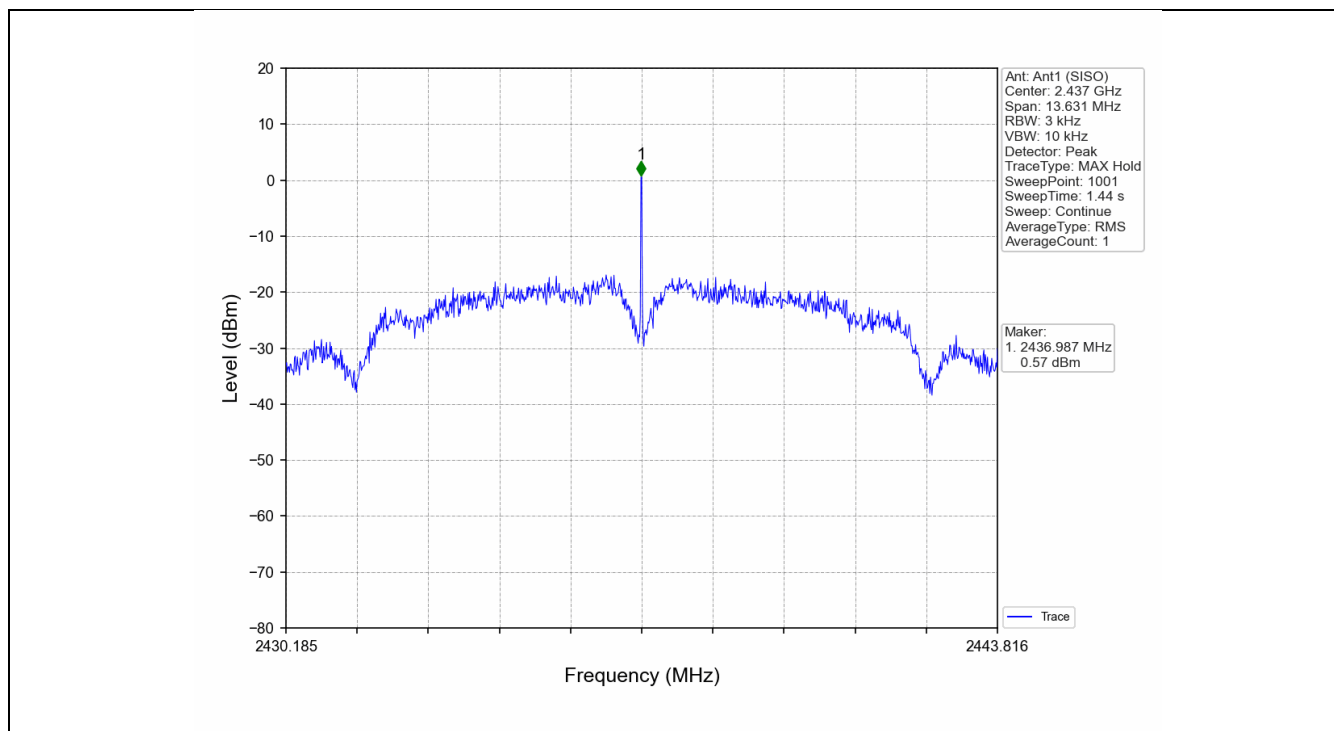
4.1.1 Test Result

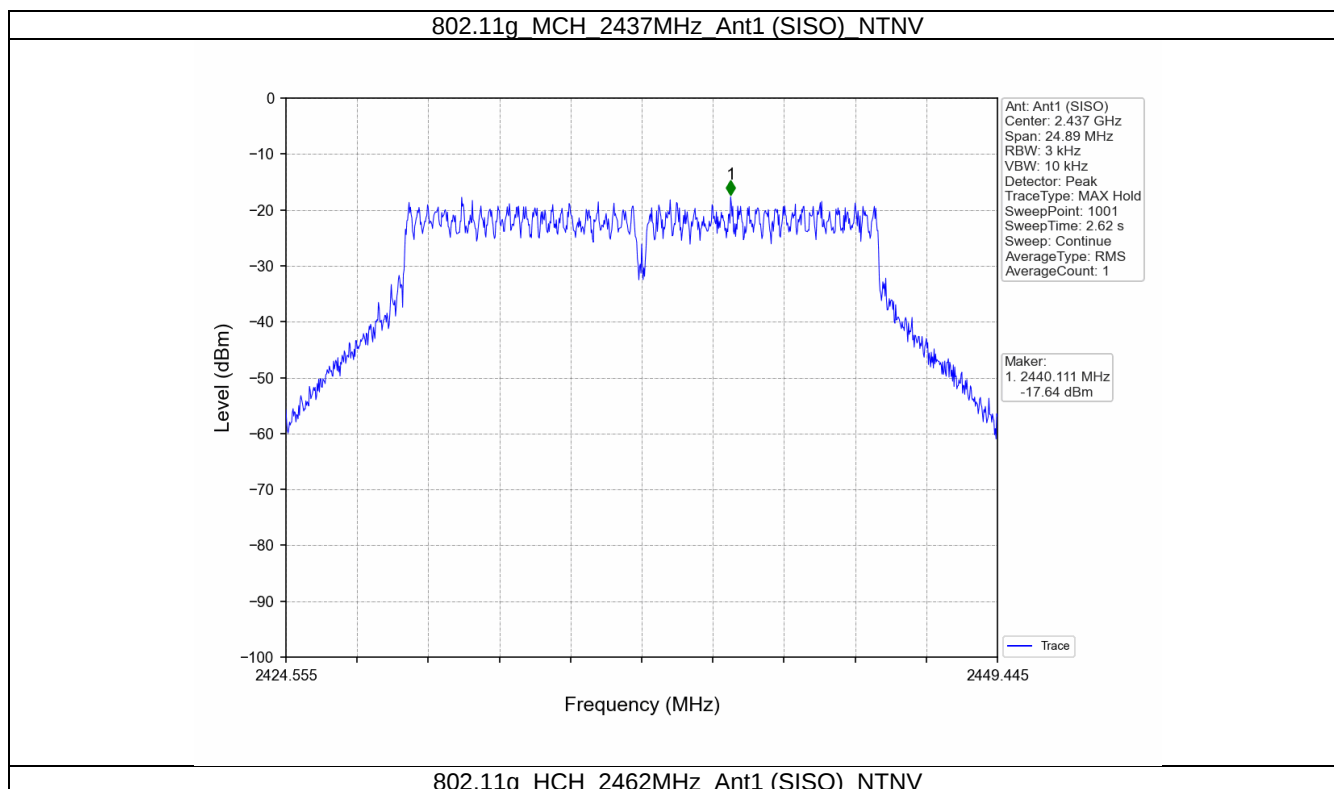
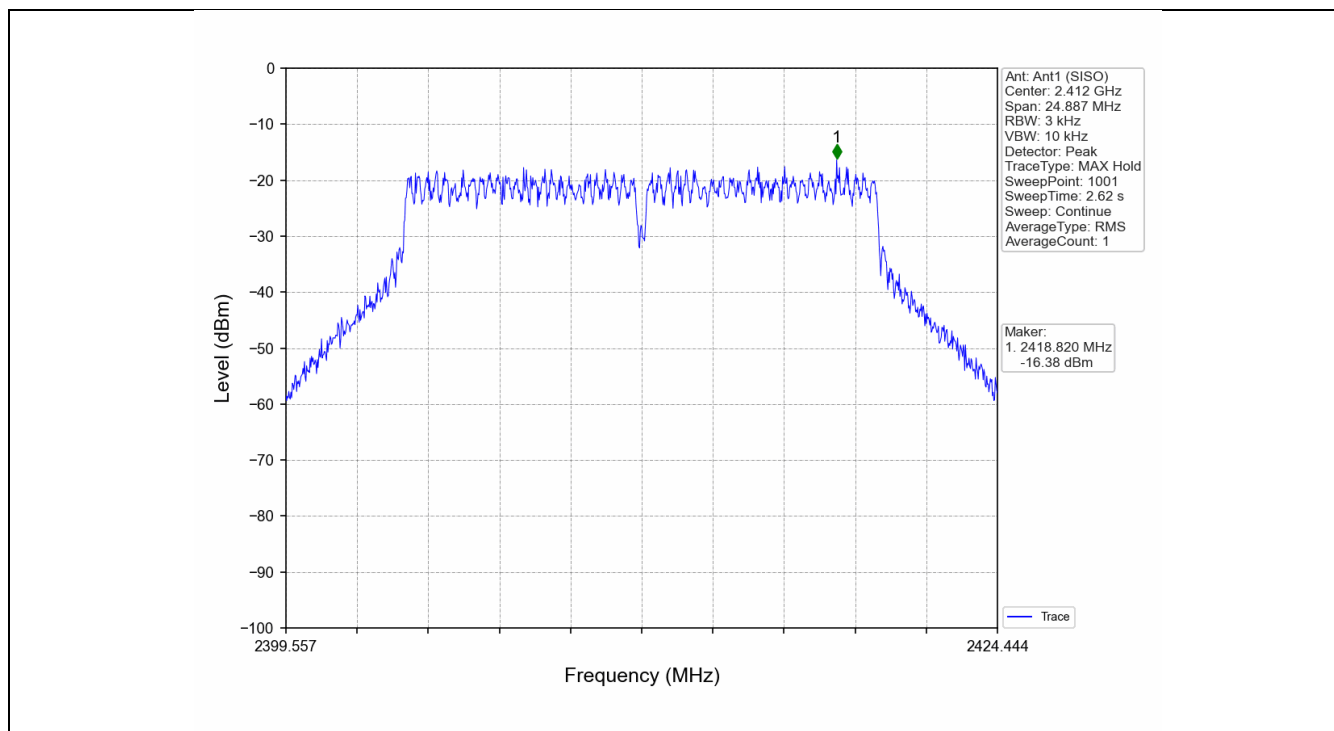
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-14.99	≤ -8	Pass
		2437	0.57	≤ -8	Pass
		2462	-15.23	≤ -8	Pass
802.11g	SISO	2412	-16.38	≤ -8	Pass
		2437	-17.64	≤ -8	Pass
		2462	-16.97	≤ -8	Pass
802.11n (HT20)	SISO	2412	-16.47	≤ -8	Pass
		2437	-16.31	≤ -8	Pass
		2462	-17.28	≤ -8	Pass
802.11n (HT40)	SISO	2422	-18.51	≤ -8	Pass
		2437	-19.69	≤ -8	Pass
		2452	-19.65	≤ -8	Pass

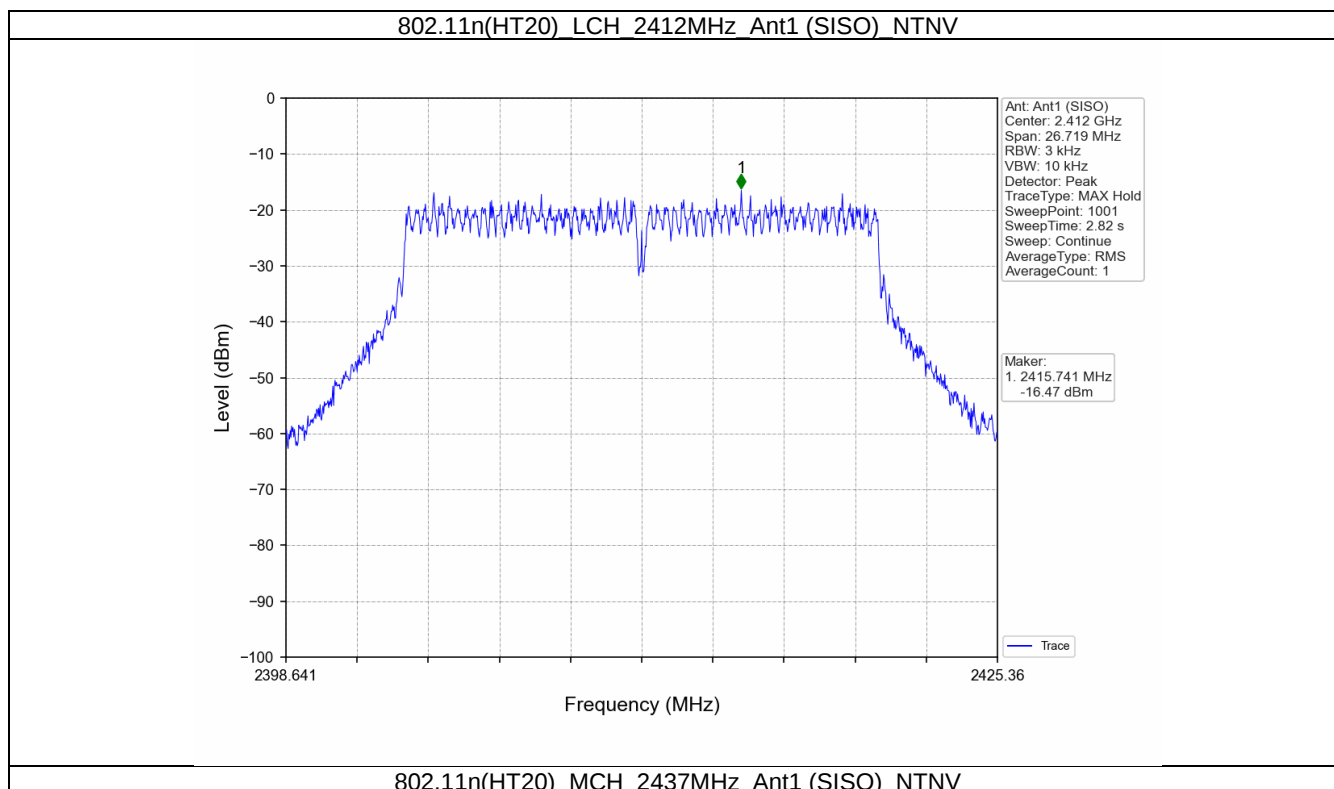
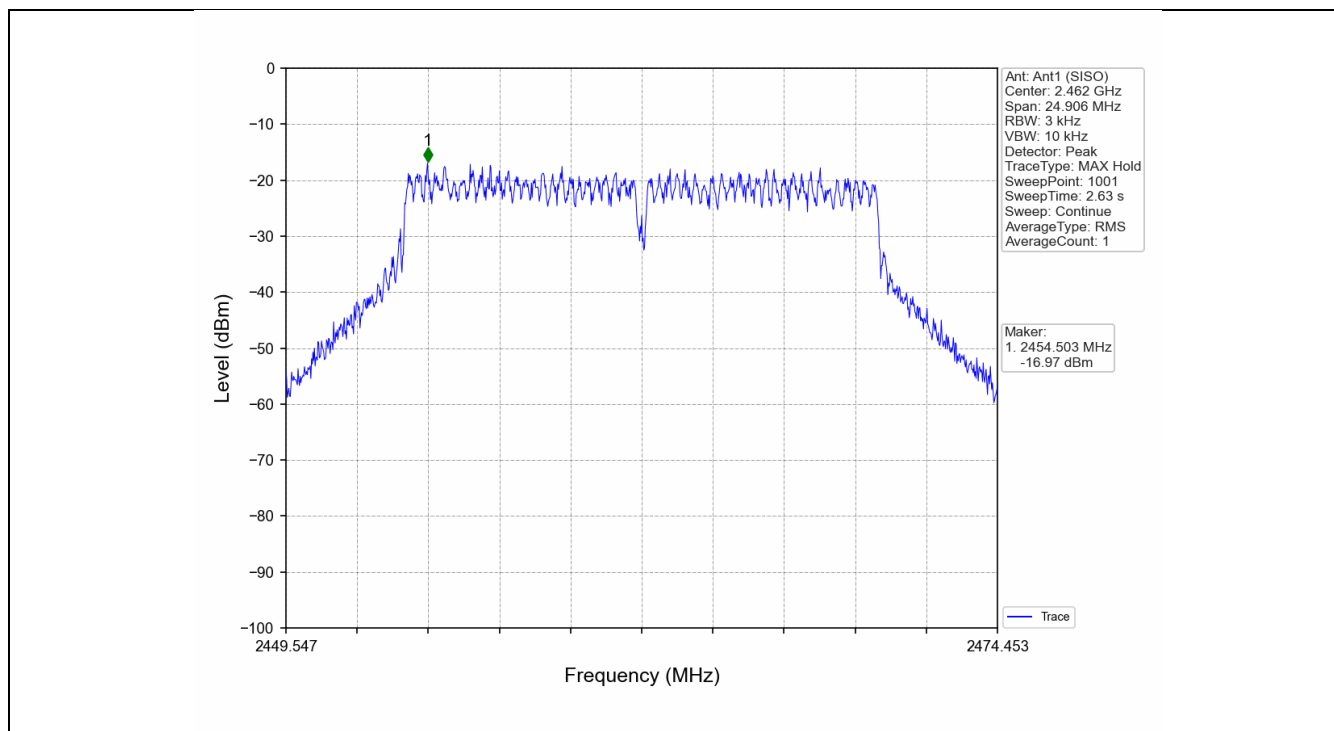
Note1: Antenna Gain: Ant1: 1.00dBi;

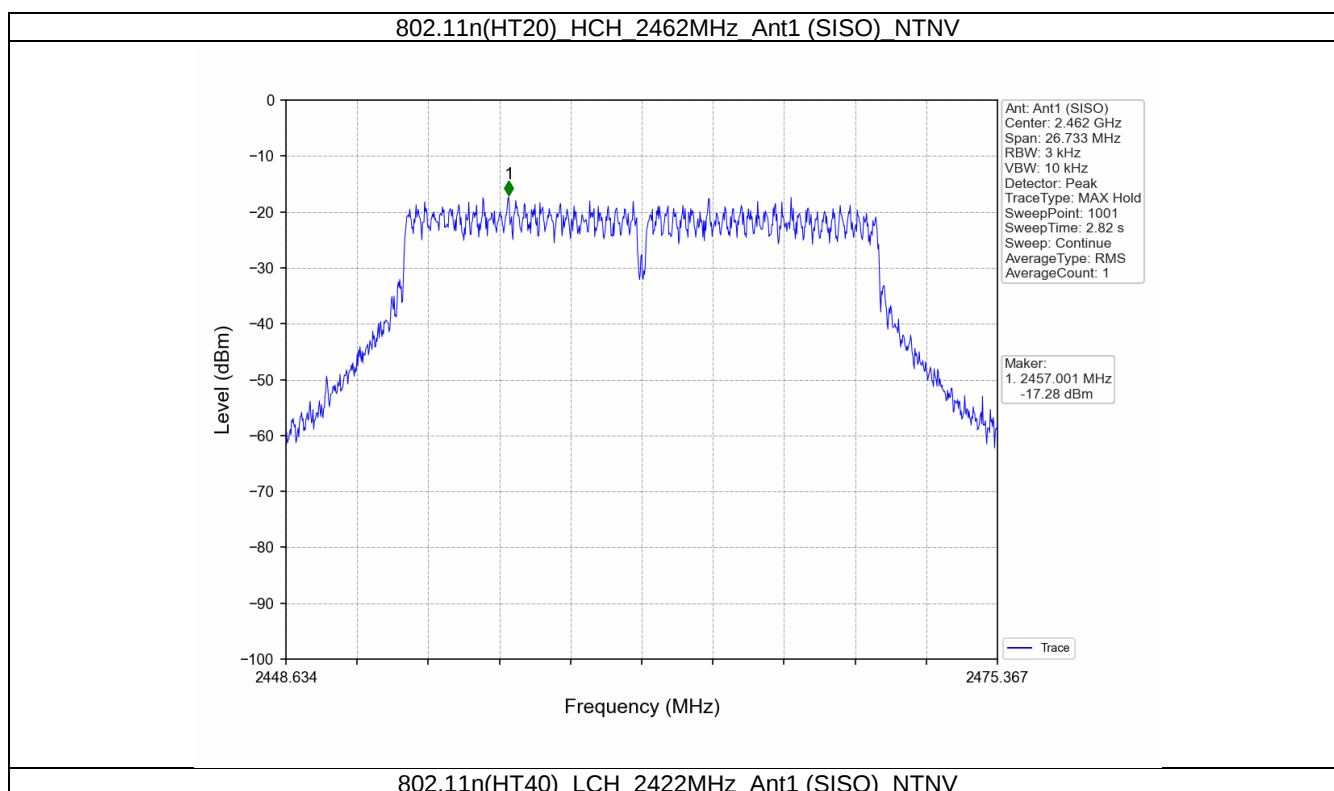
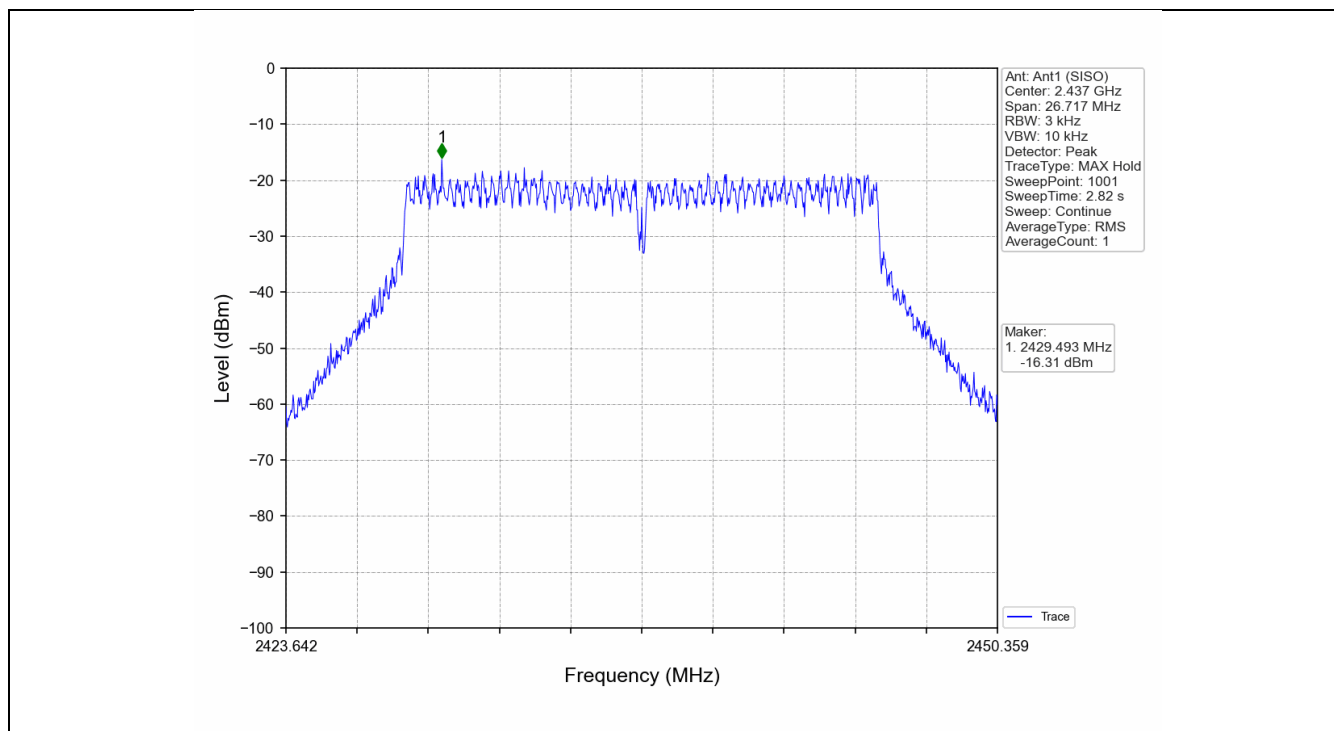
4.1.2 Test Graph

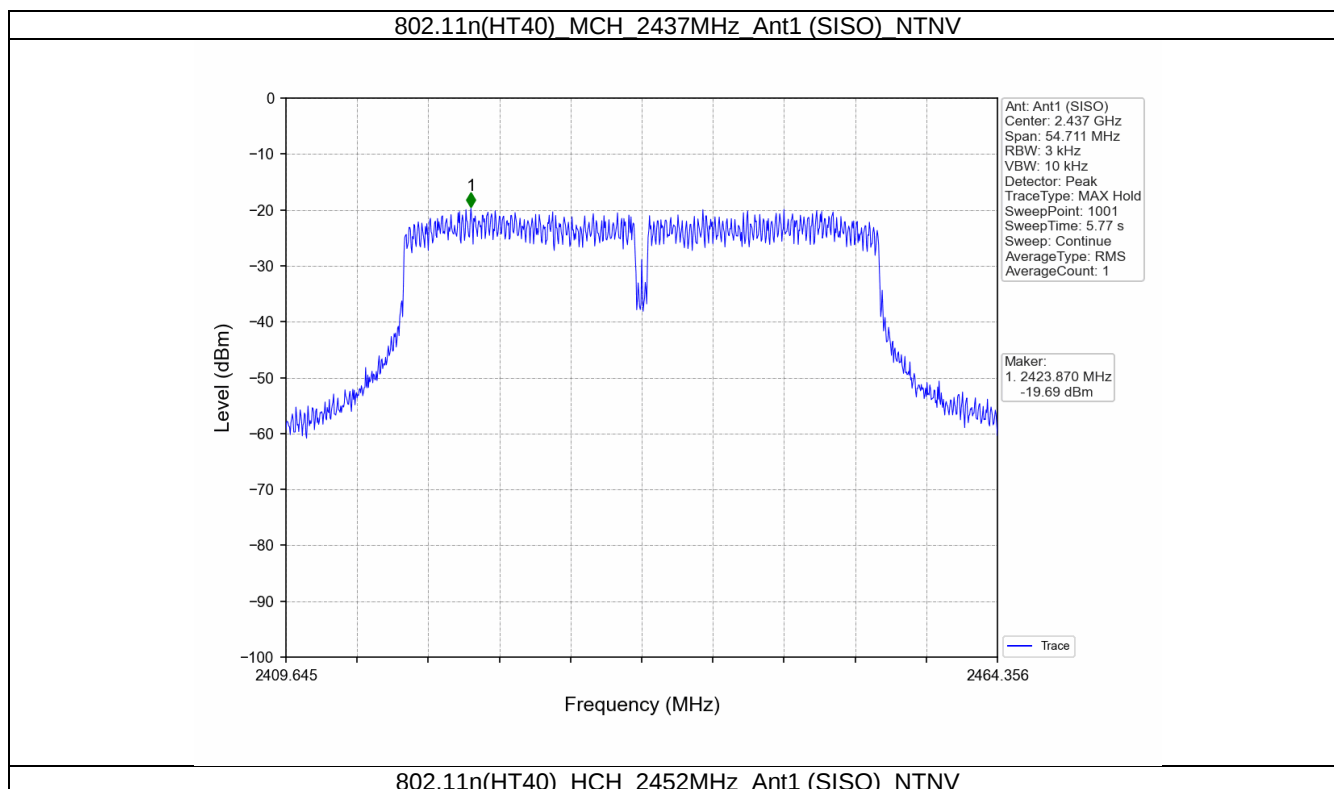
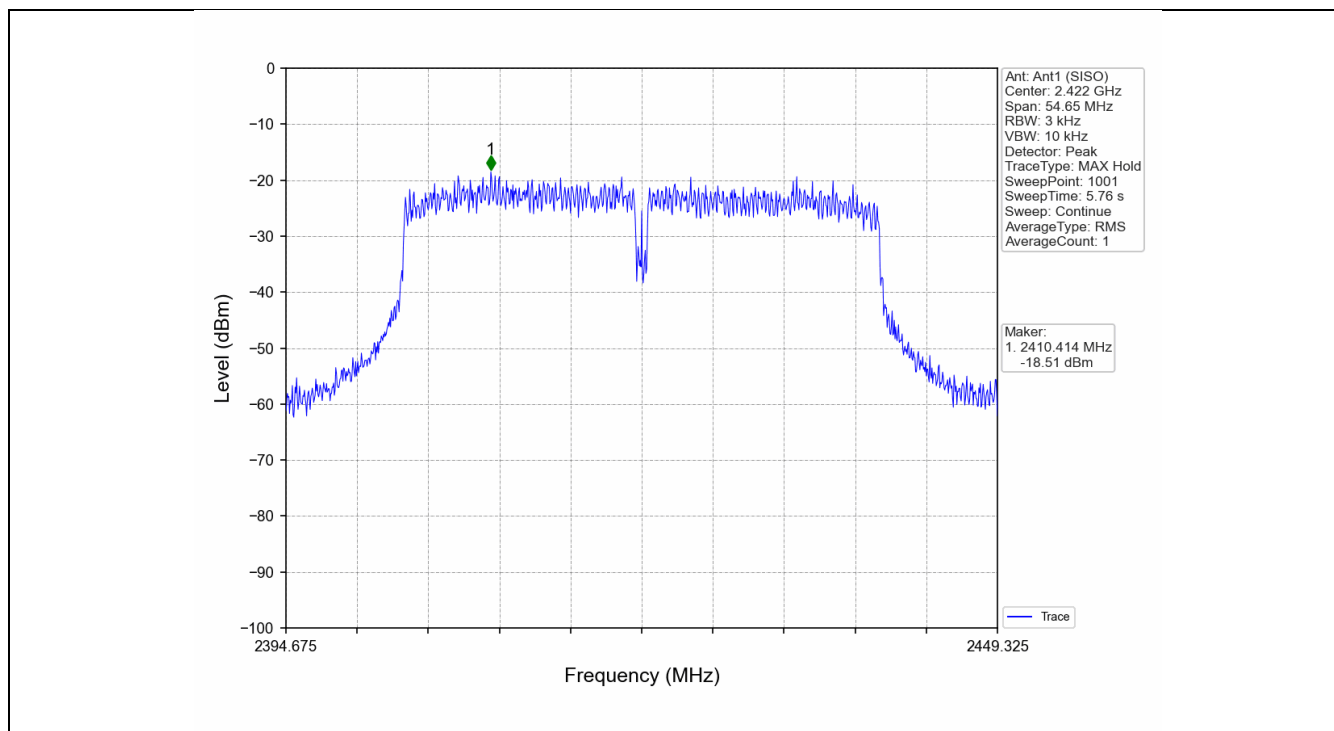


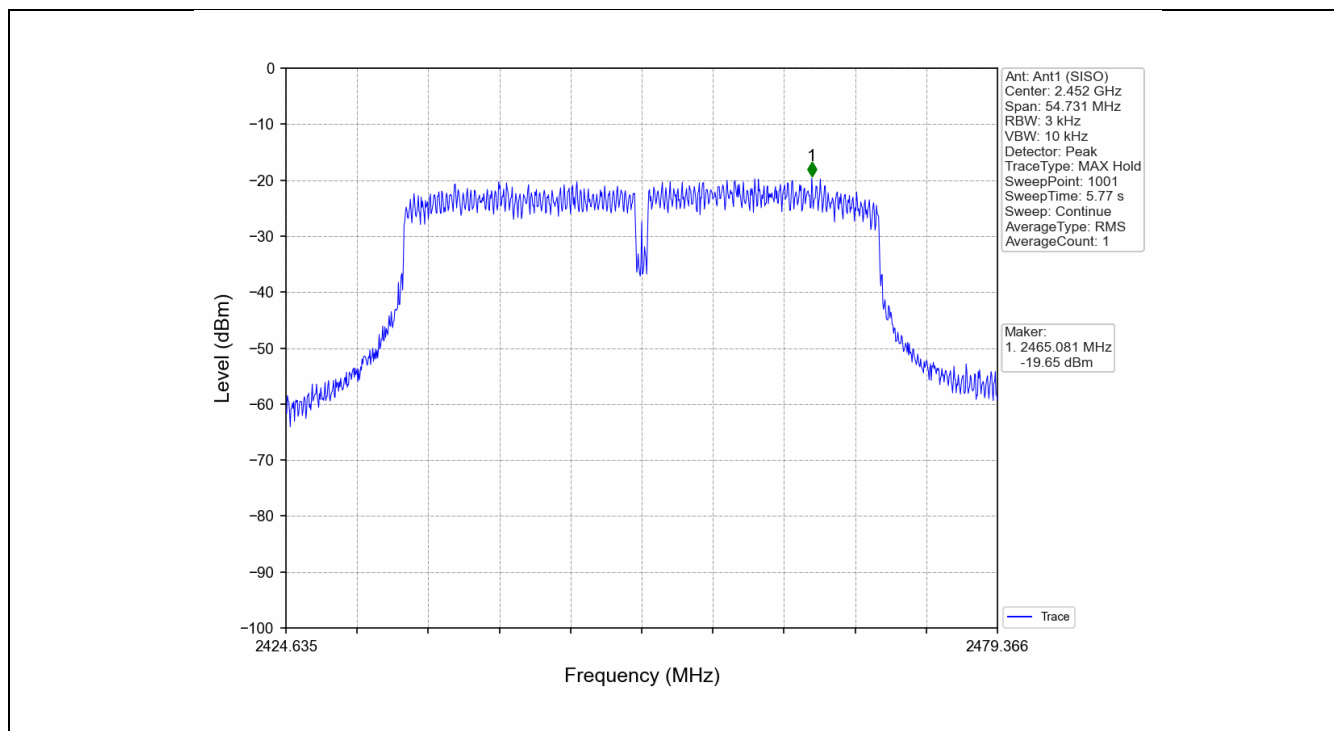












5. Unwanted Emissions In Non-restricted Frequency Bands

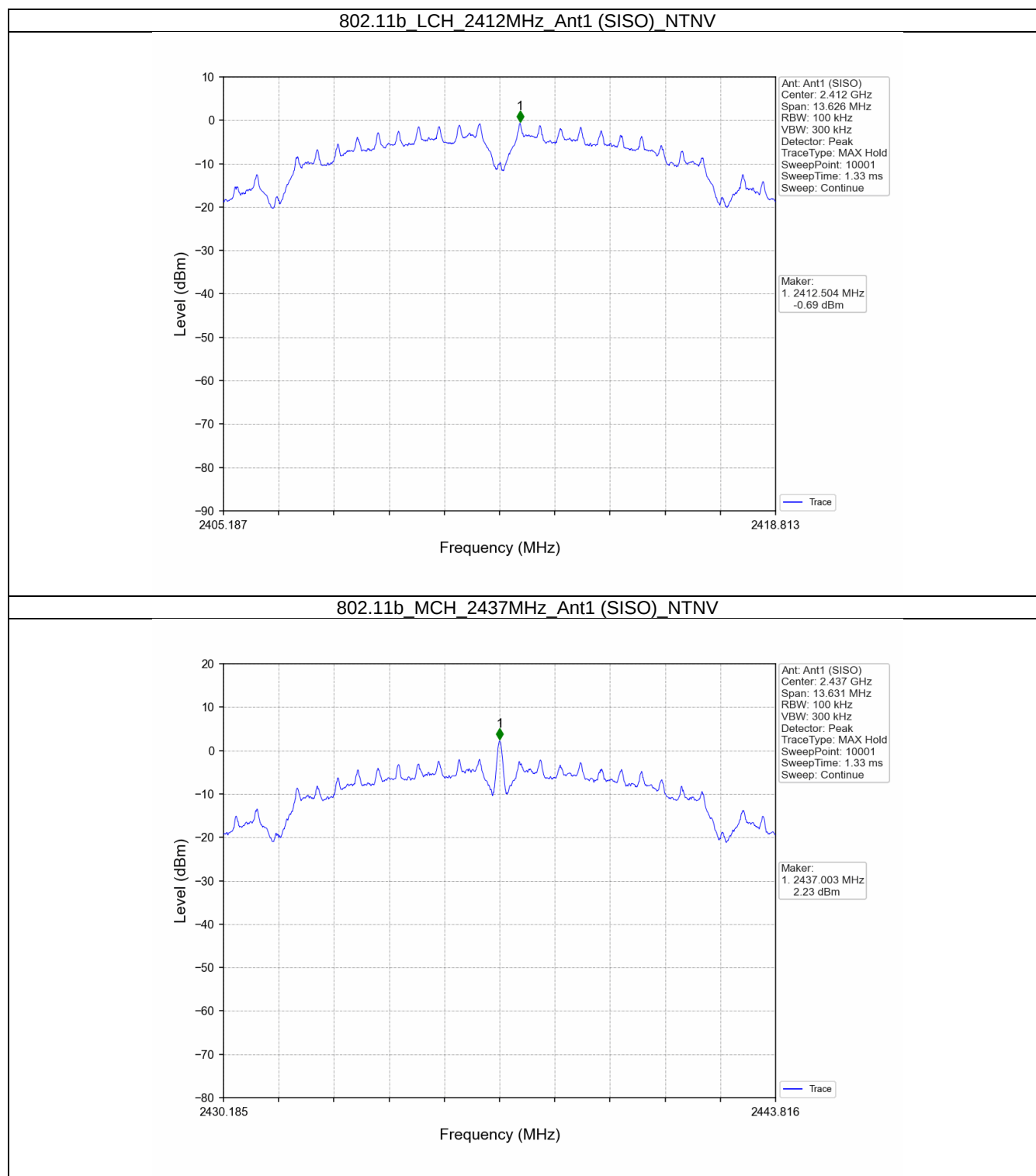
5.1 Ref

5.1.1 Test Result

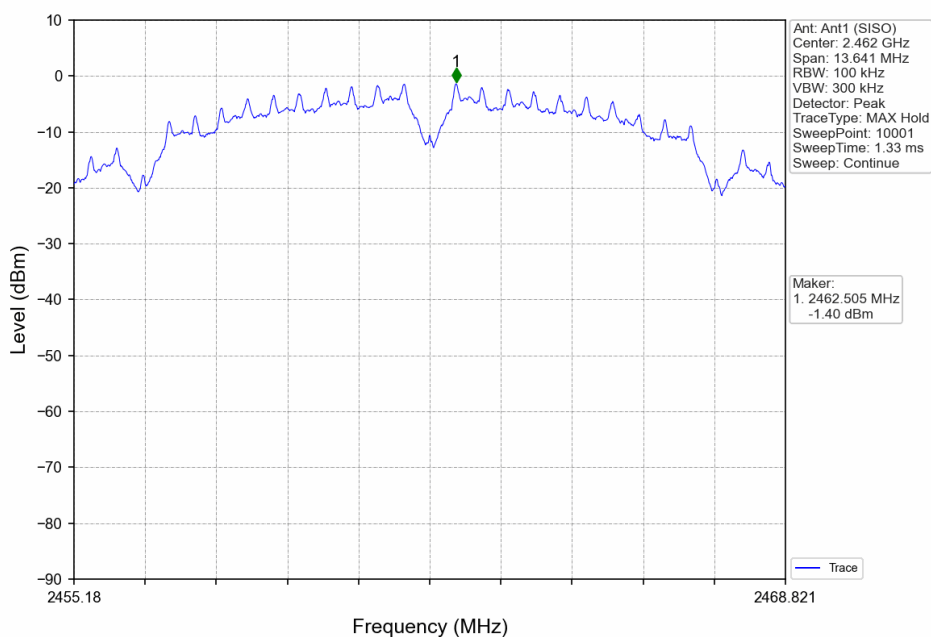
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	-0.69
		2437	1	2.23
		2462	1	-1.40
802.11g	SISO	2412	1	-2.83
		2437	1	-3.33
		2462	1	-2.58
802.11n (HT20)	SISO	2412	1	-2.75
		2437	1	-3.37
		2462	1	-2.68
802.11n (HT40)	SISO	2422	1	-4.13
		2437	1	-4.71
		2452	1	-4.35

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.

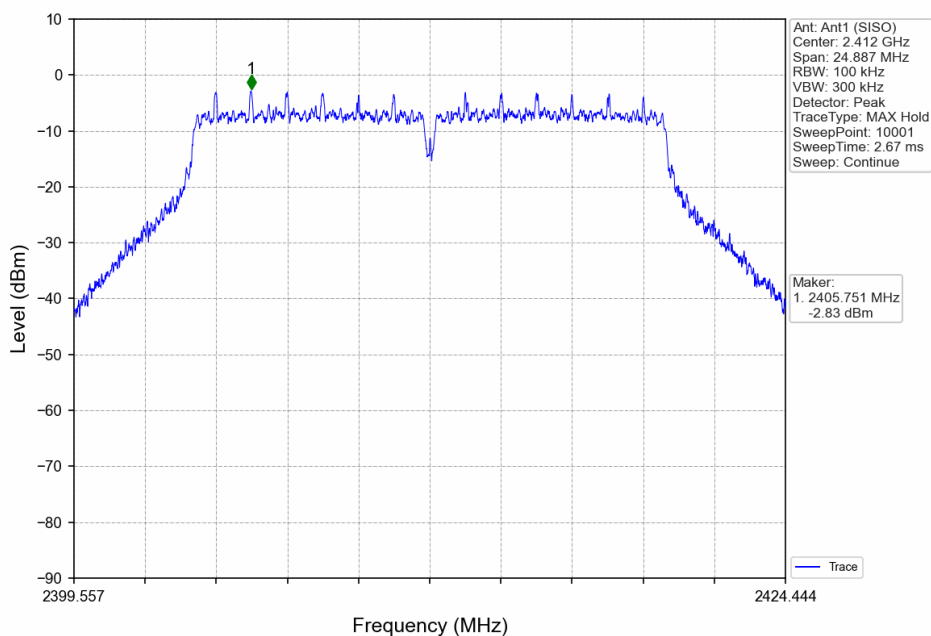
5.1.2 Test Graph



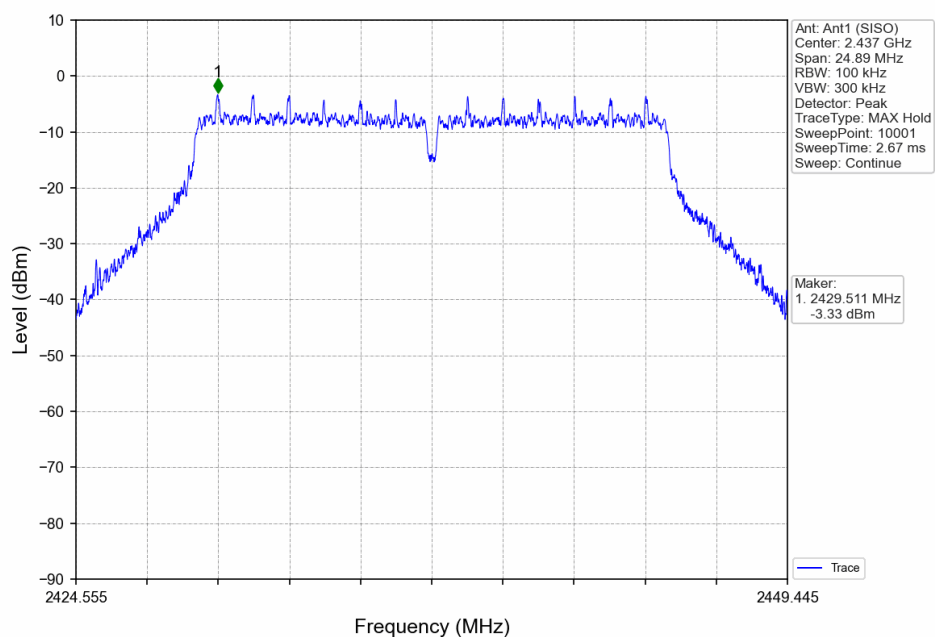
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



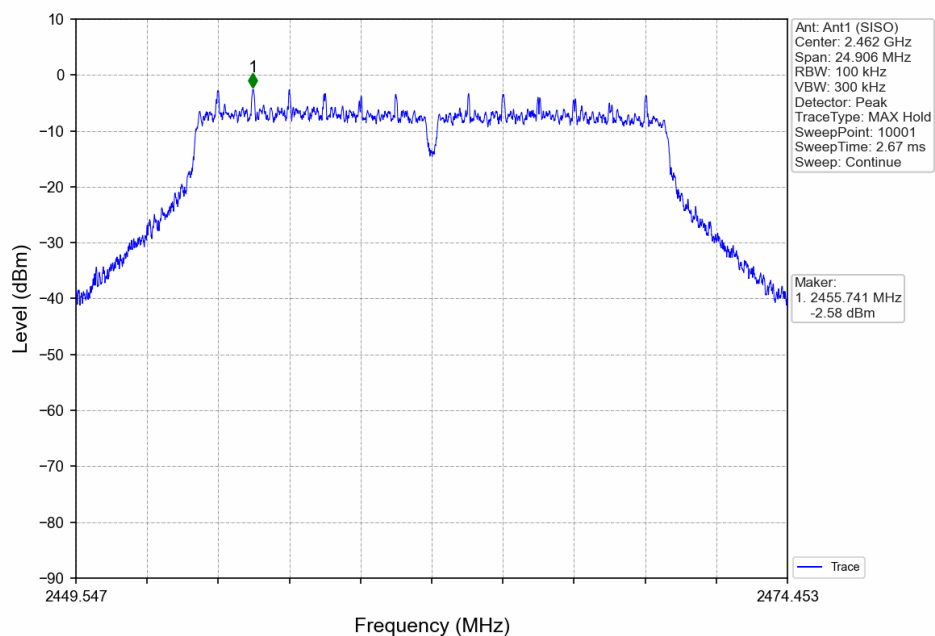
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



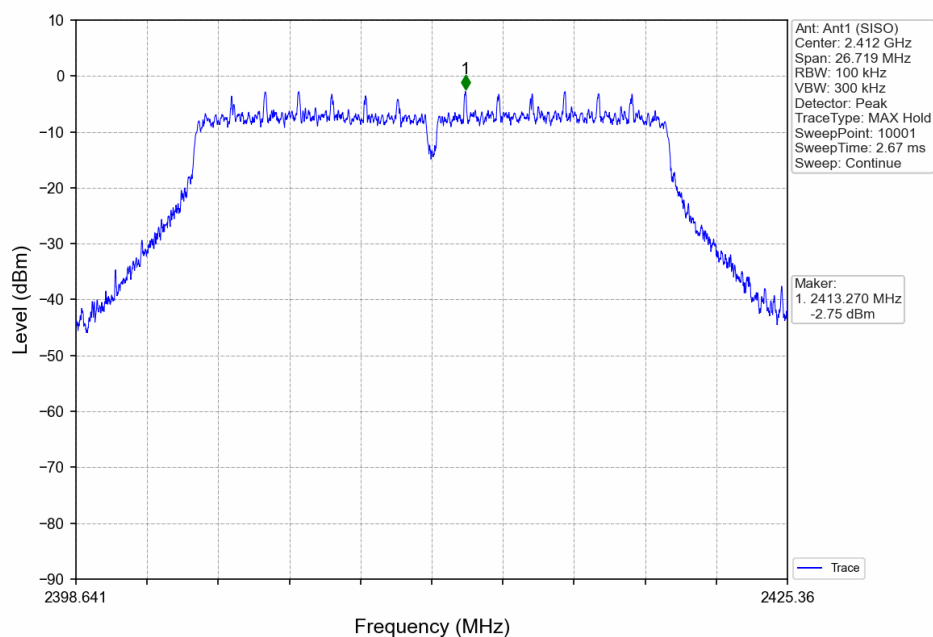
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



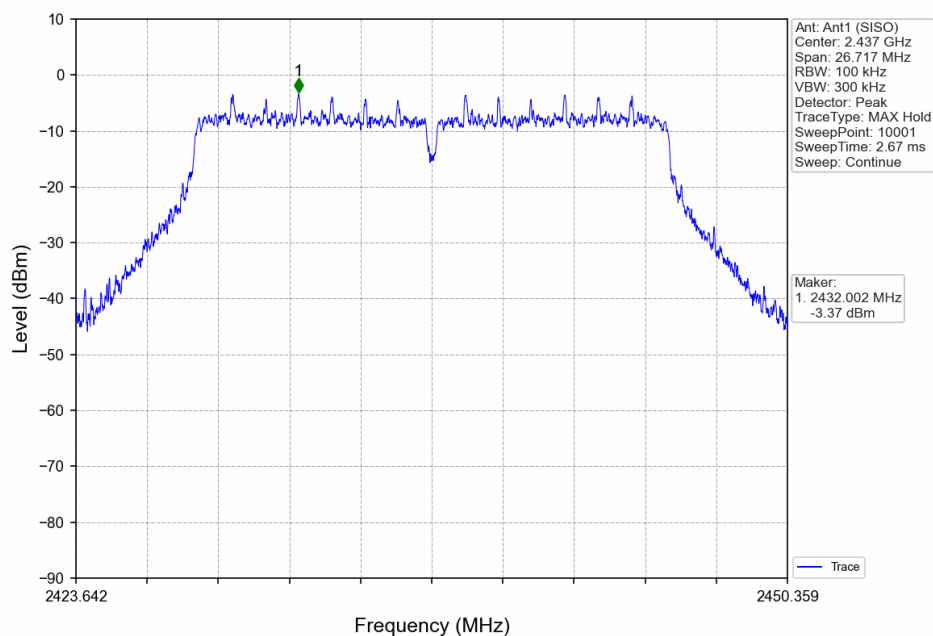
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



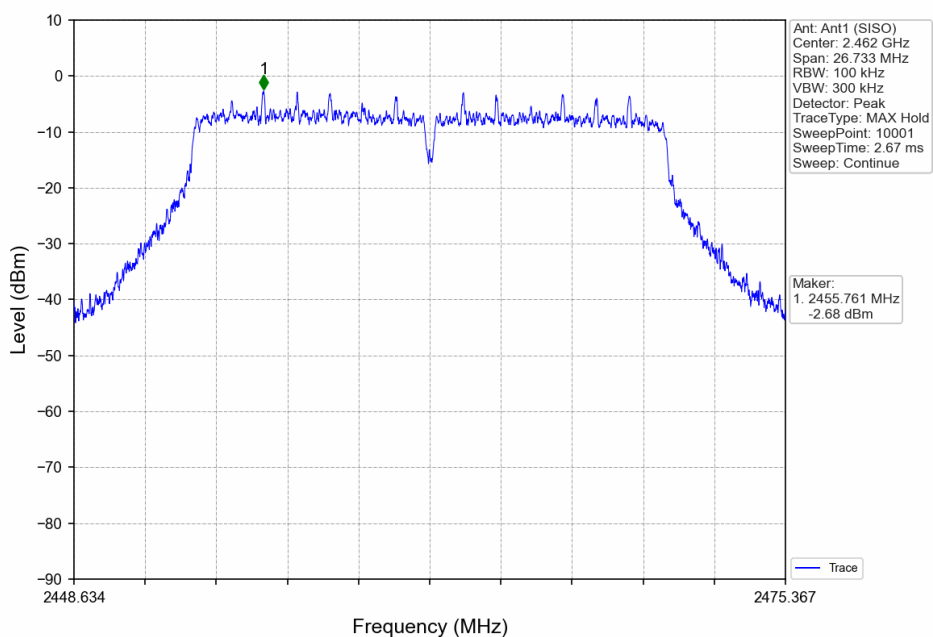
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



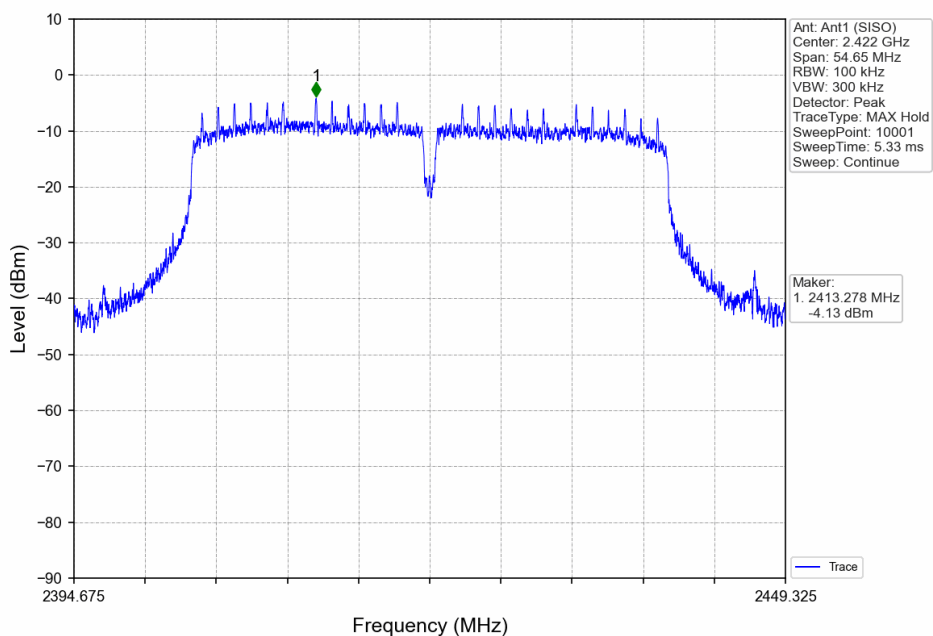
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



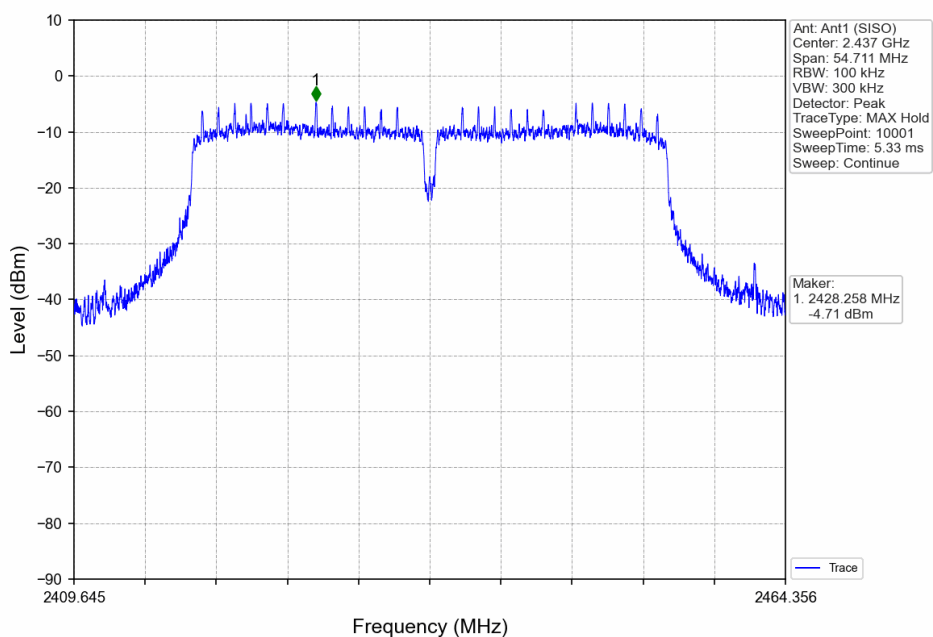
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



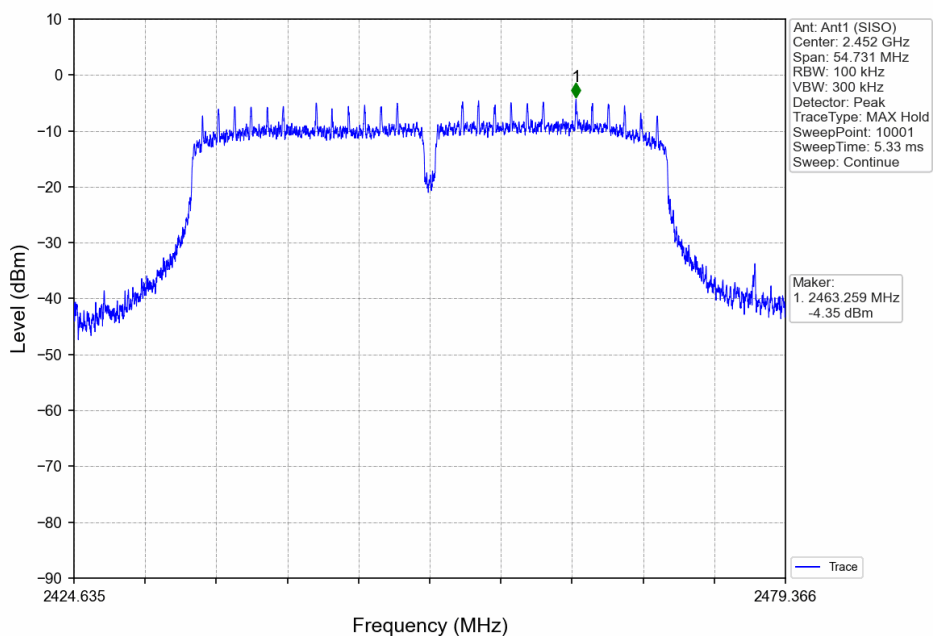
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



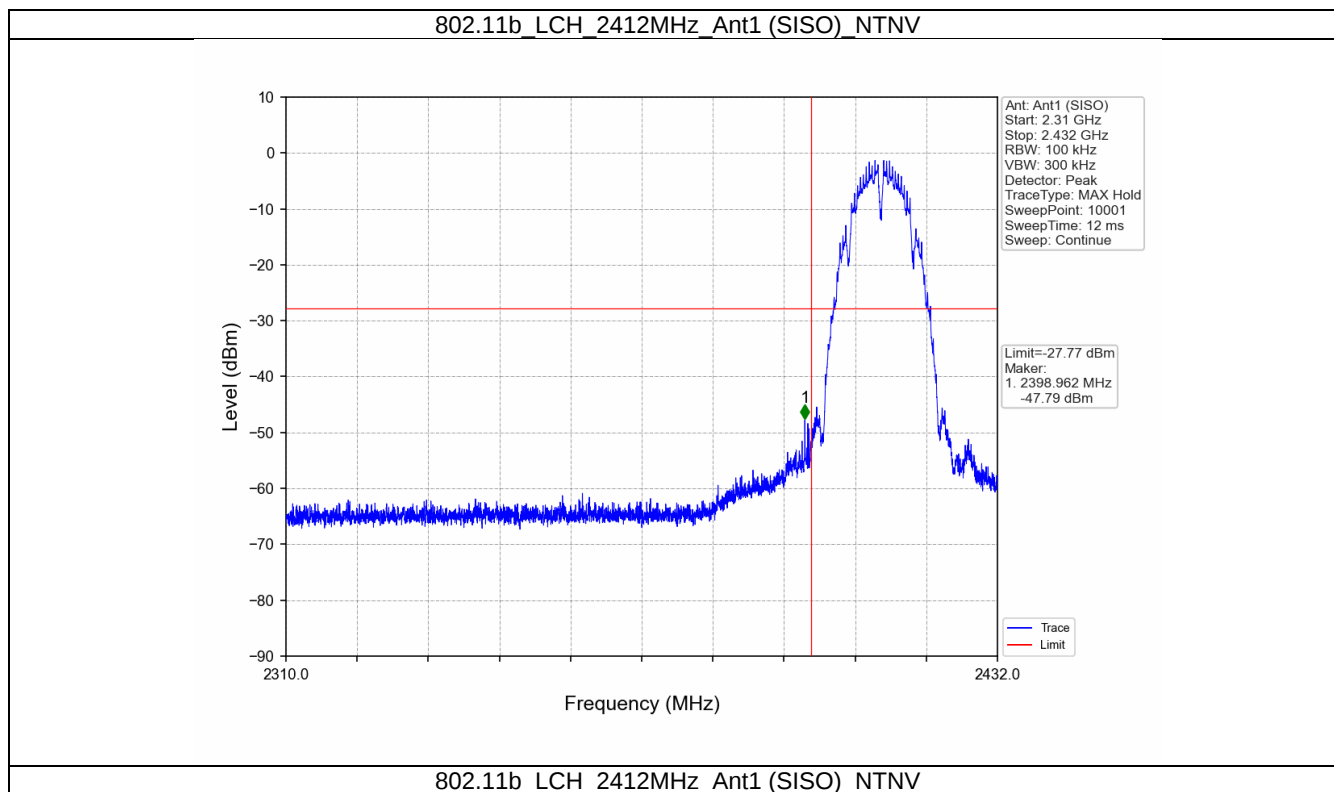
5.2 CSE

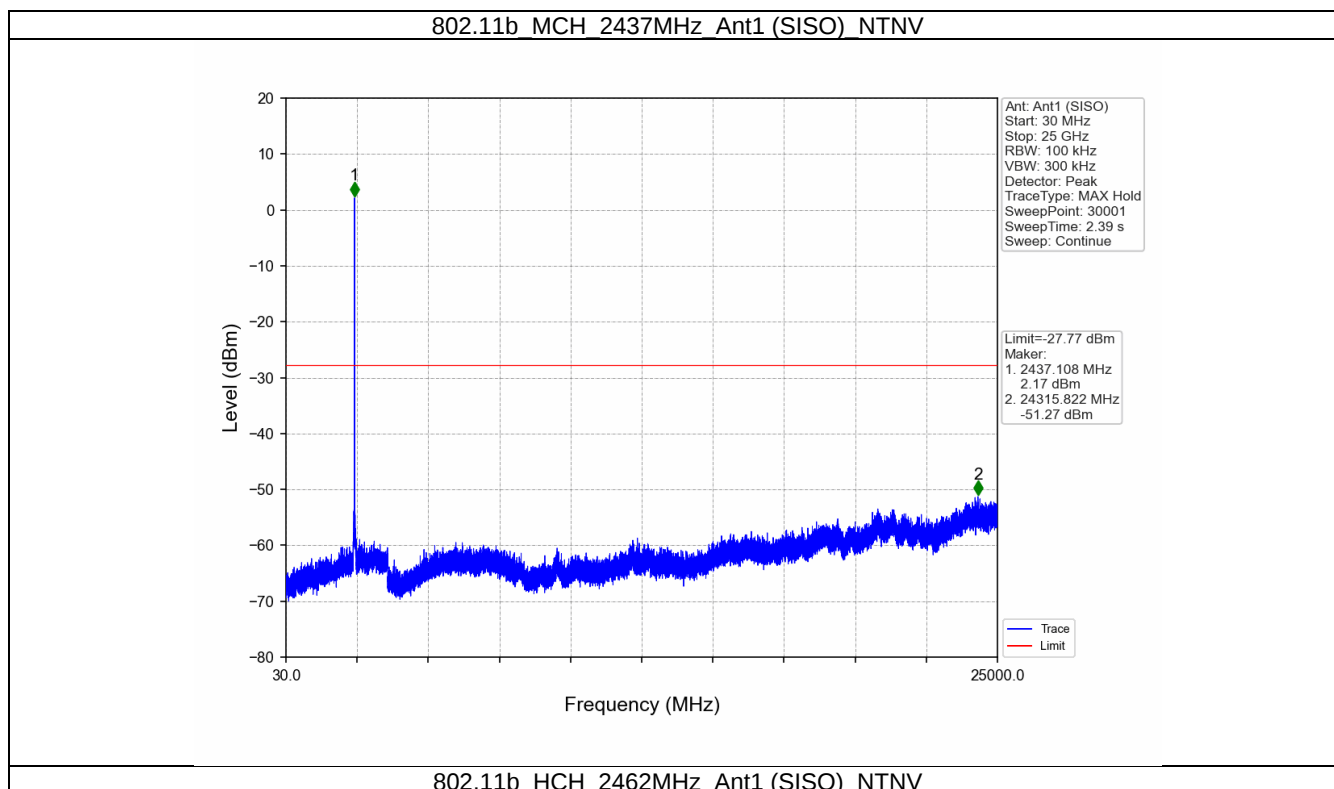
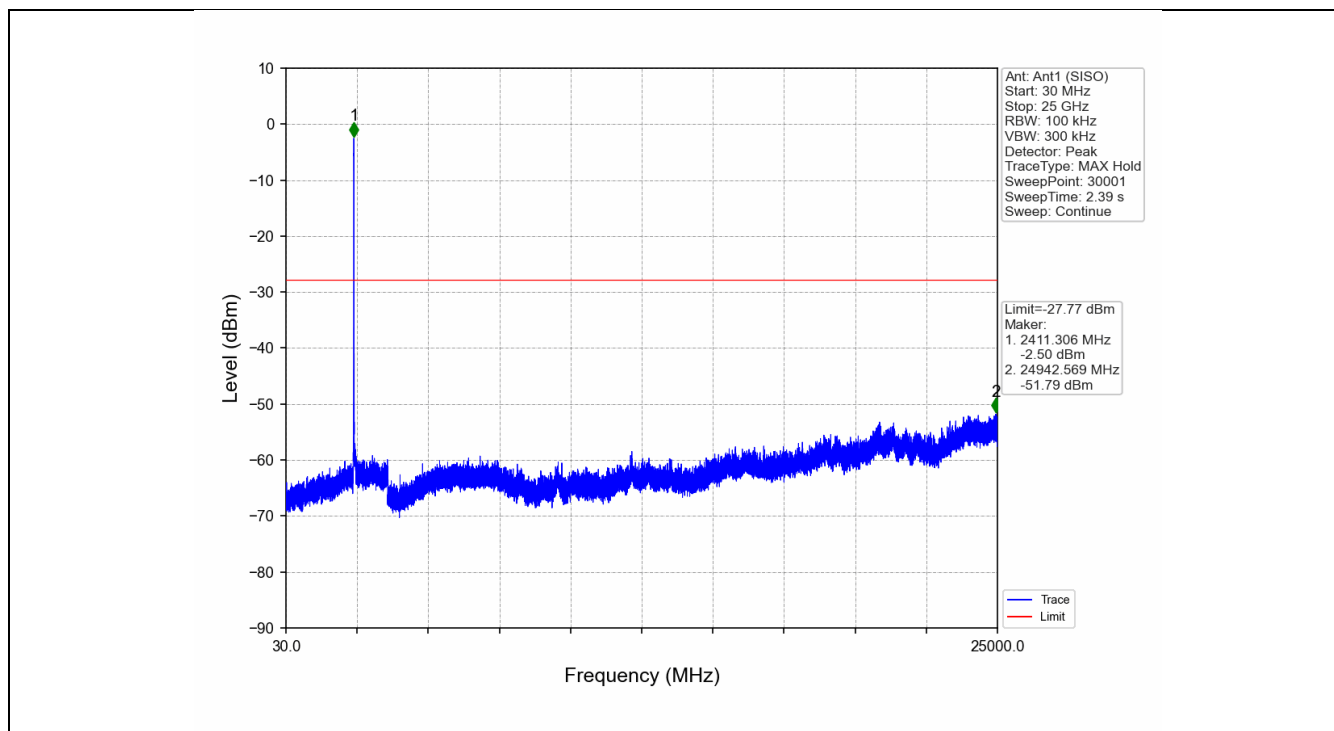
5.2.1 Test Result

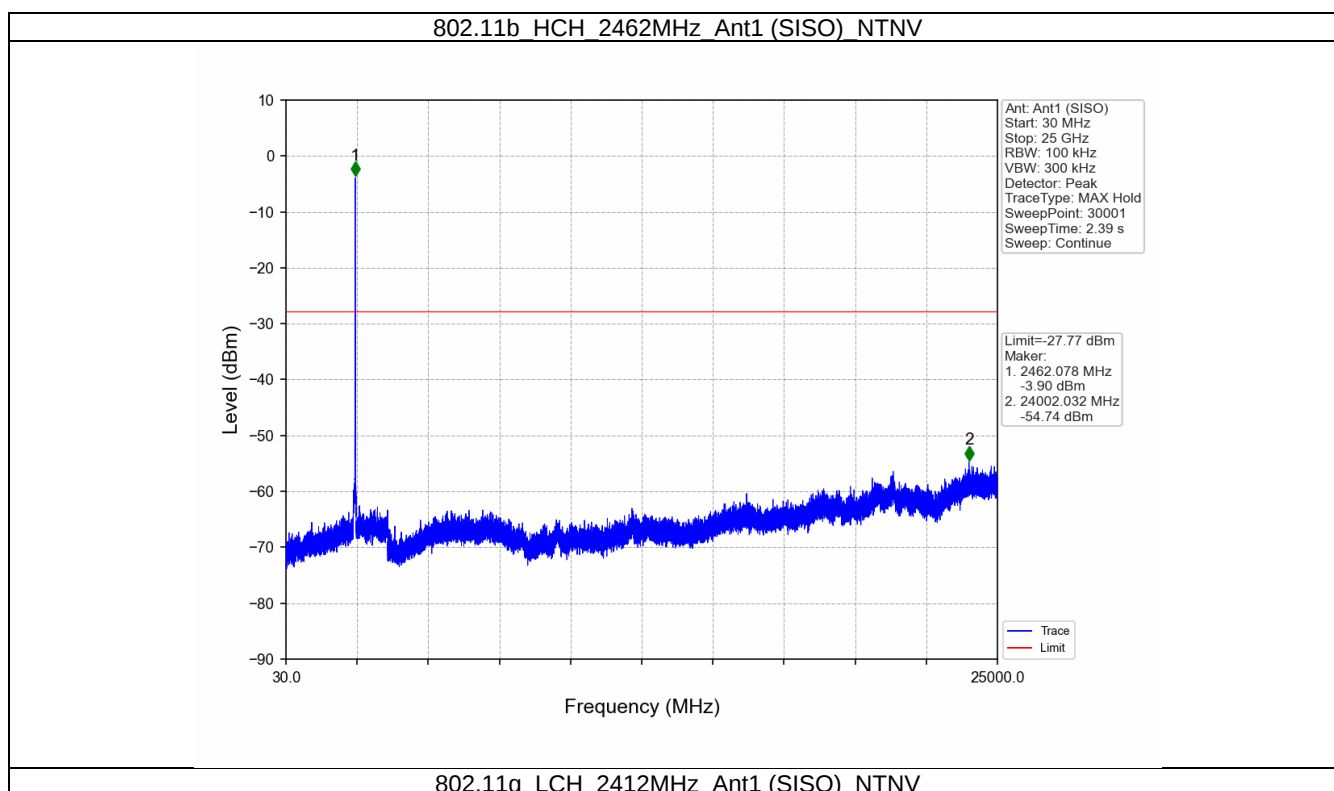
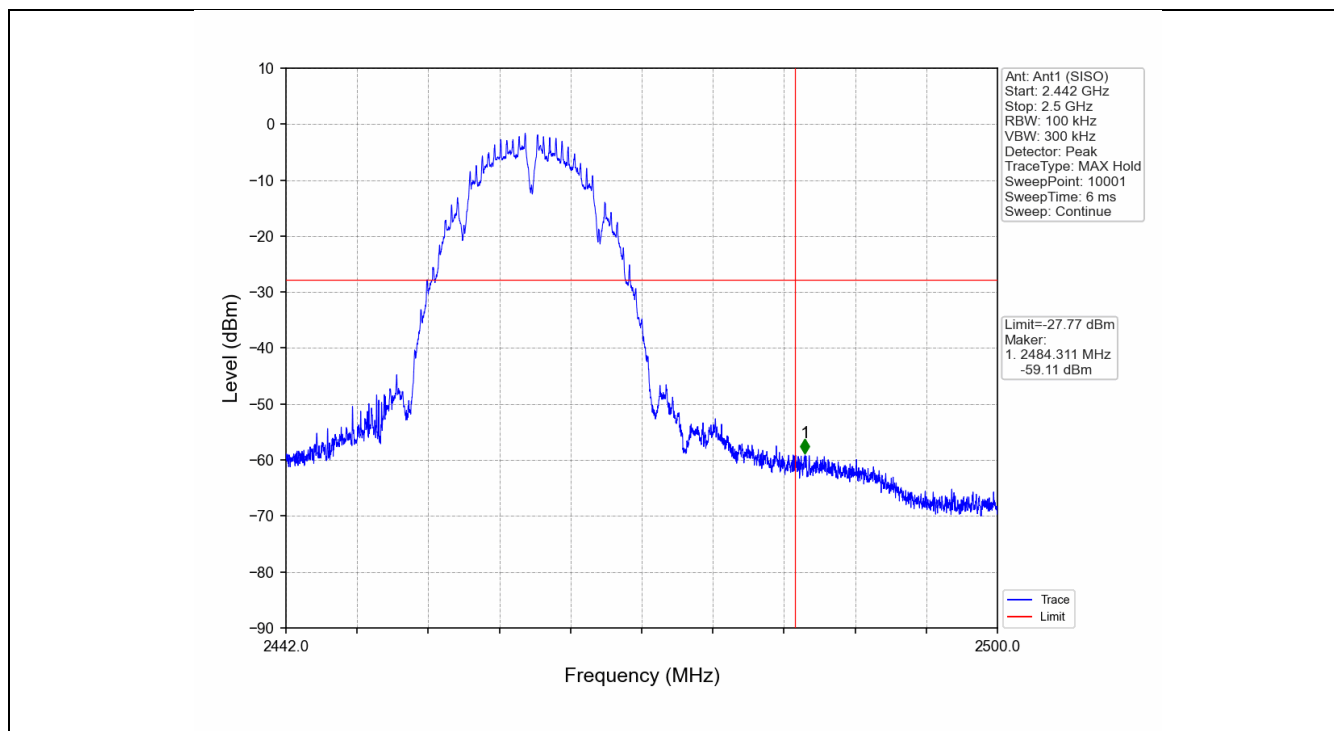
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.23	-27.77	Pass
		2437	1	2.23	-27.77	Pass
		2462	1	2.23	-27.77	Pass
802.11g	SISO	2412	1	-2.58	-32.58	Pass
		2437	1	-2.58	-32.58	Pass
		2462	1	-2.58	-32.58	Pass
802.11n (HT20)	SISO	2412	1	-2.68	-32.68	Pass
		2437	1	-2.68	-32.68	Pass
		2462	1	-2.68	-32.68	Pass
802.11n (HT40)	SISO	2422	1	-4.13	-34.13	Pass
		2437	1	-4.13	-34.13	Pass
		2452	1	-4.13	-34.13	Pass

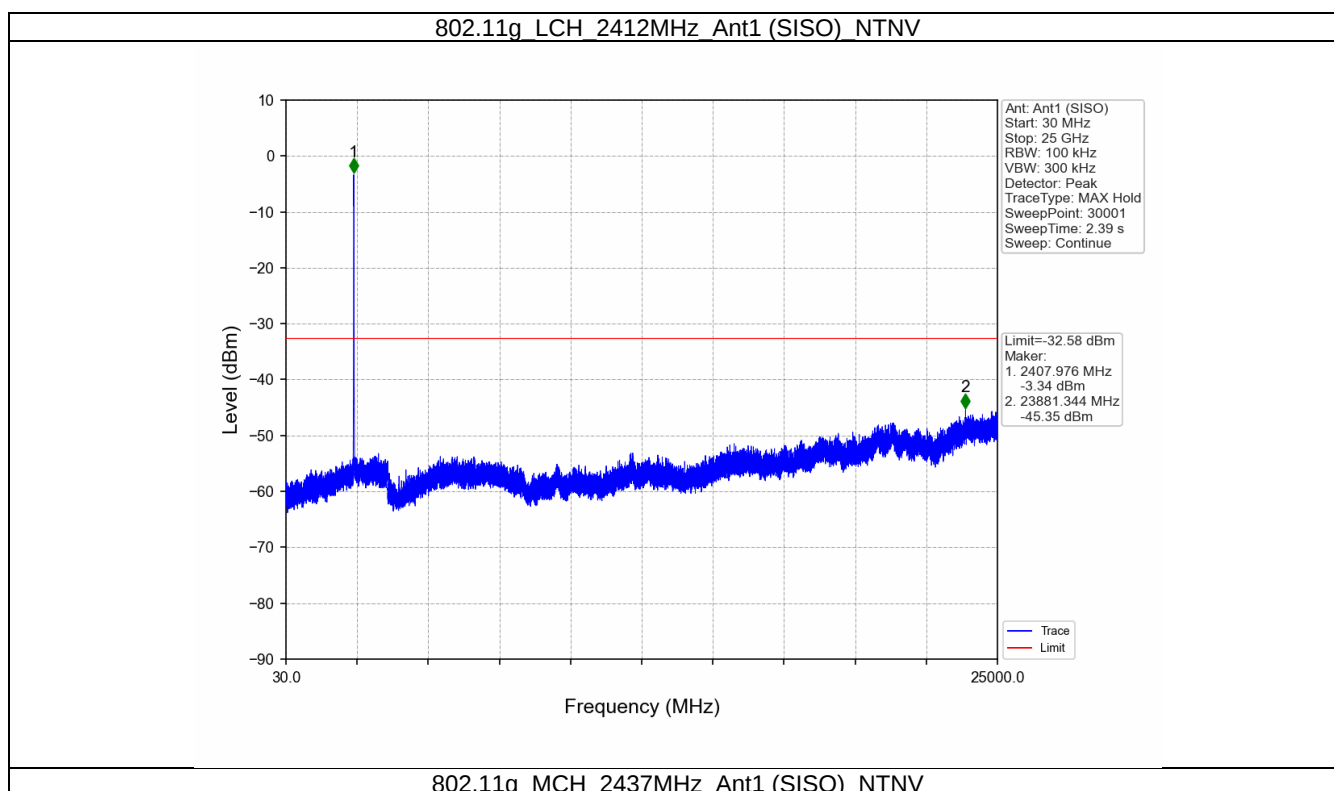
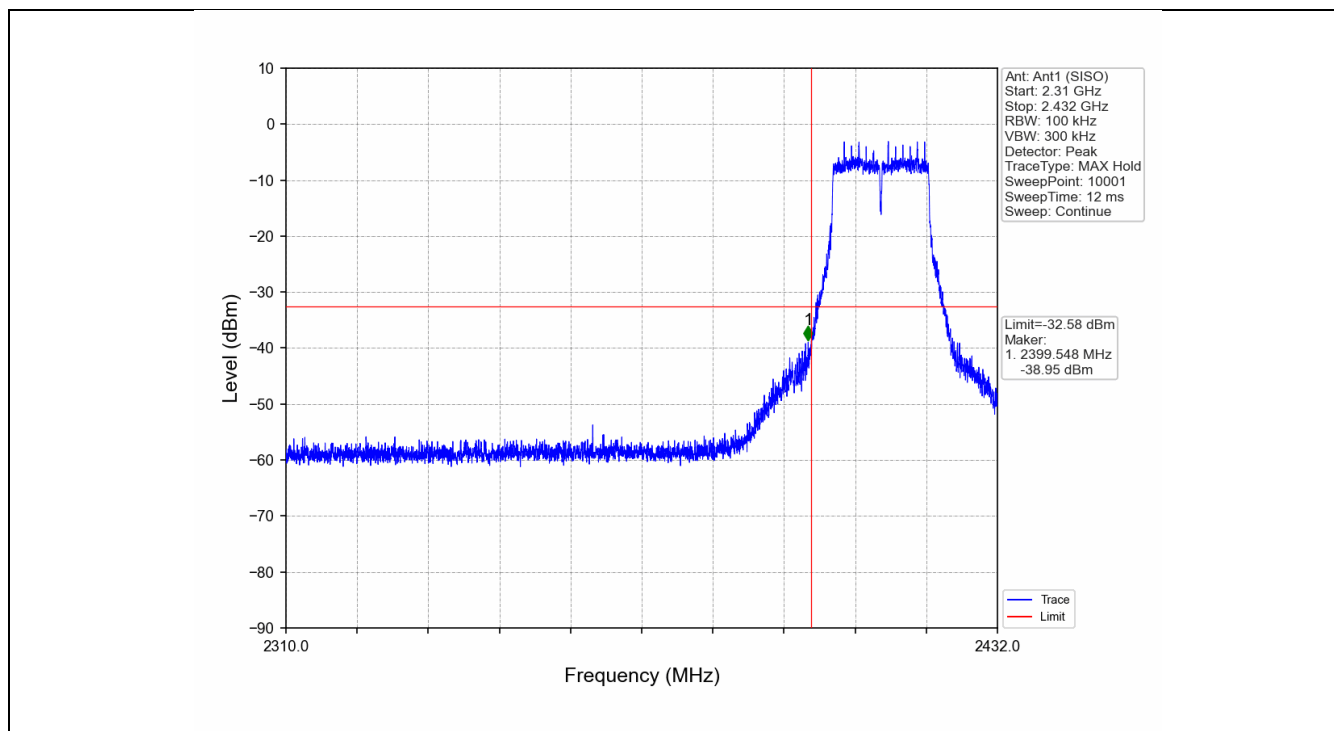
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

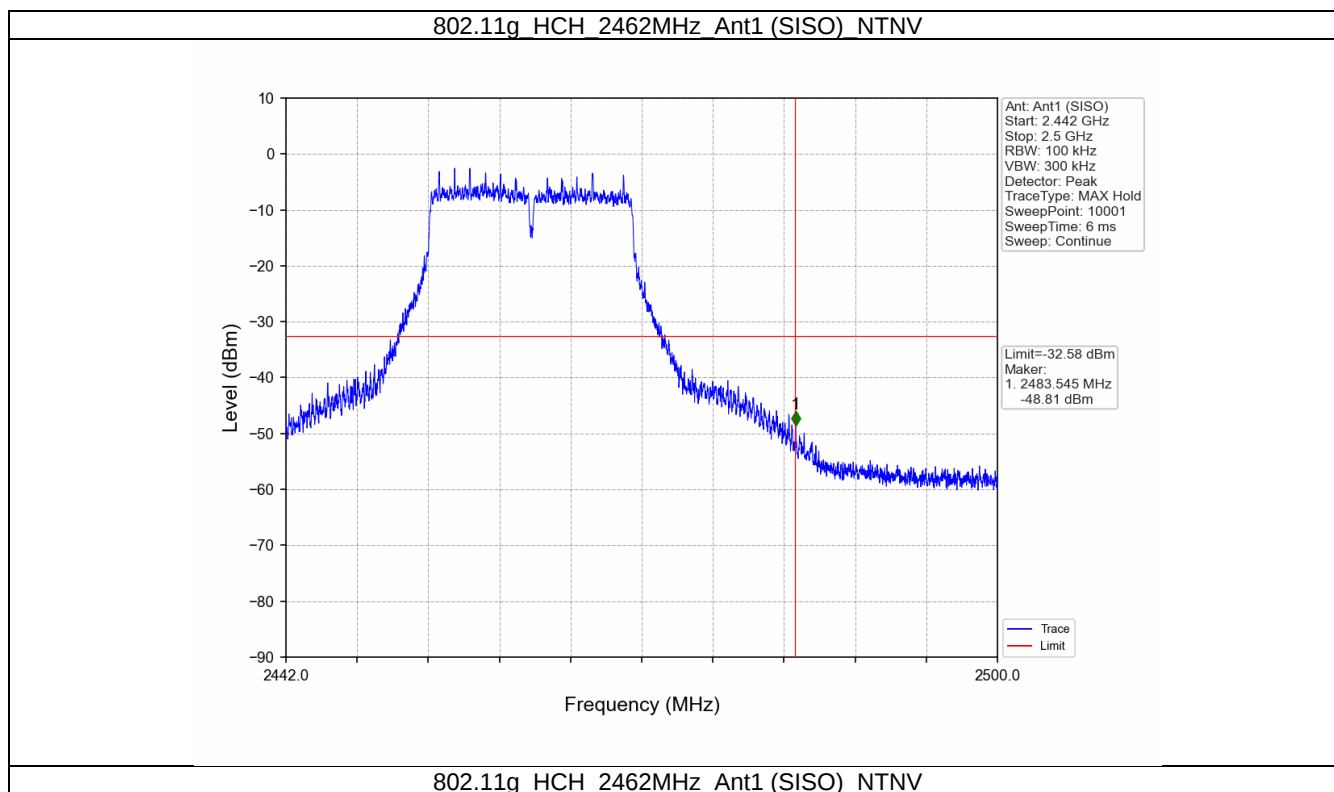
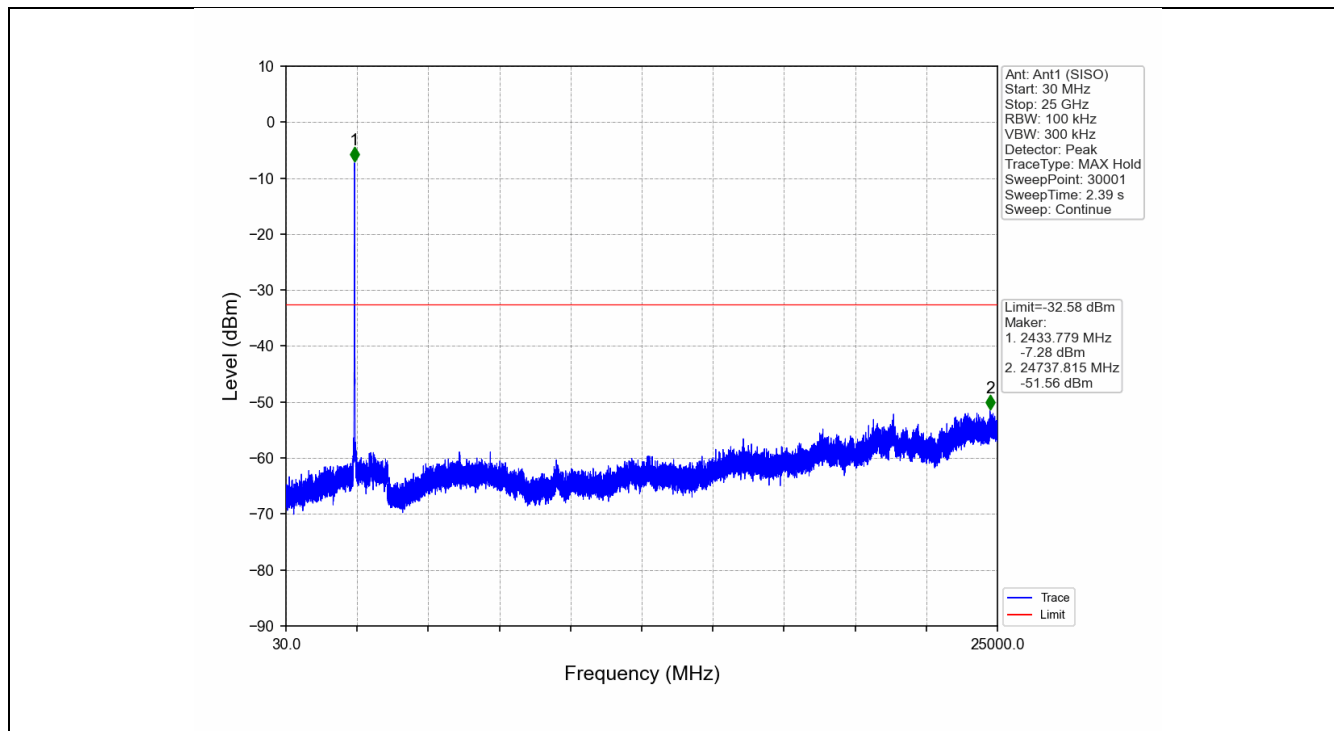
5.2.2 Test Graph

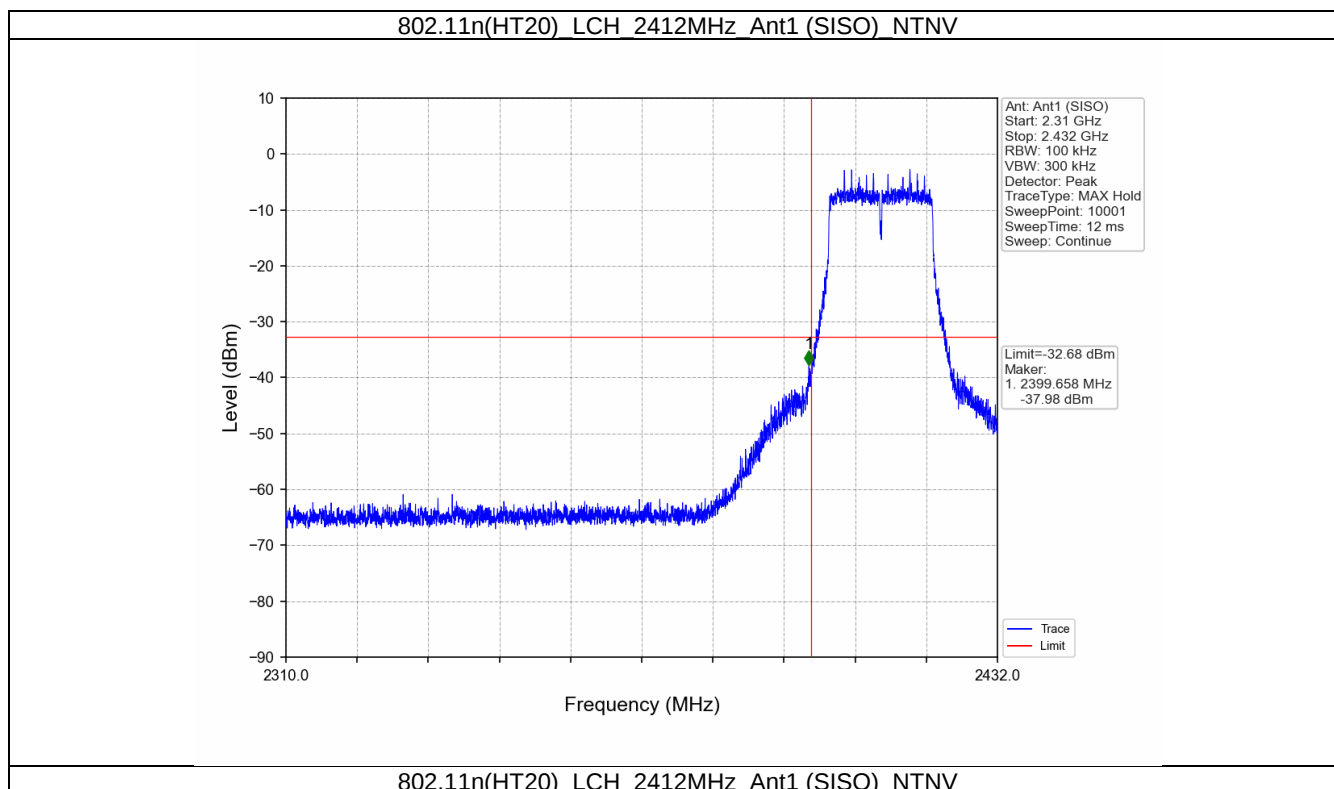
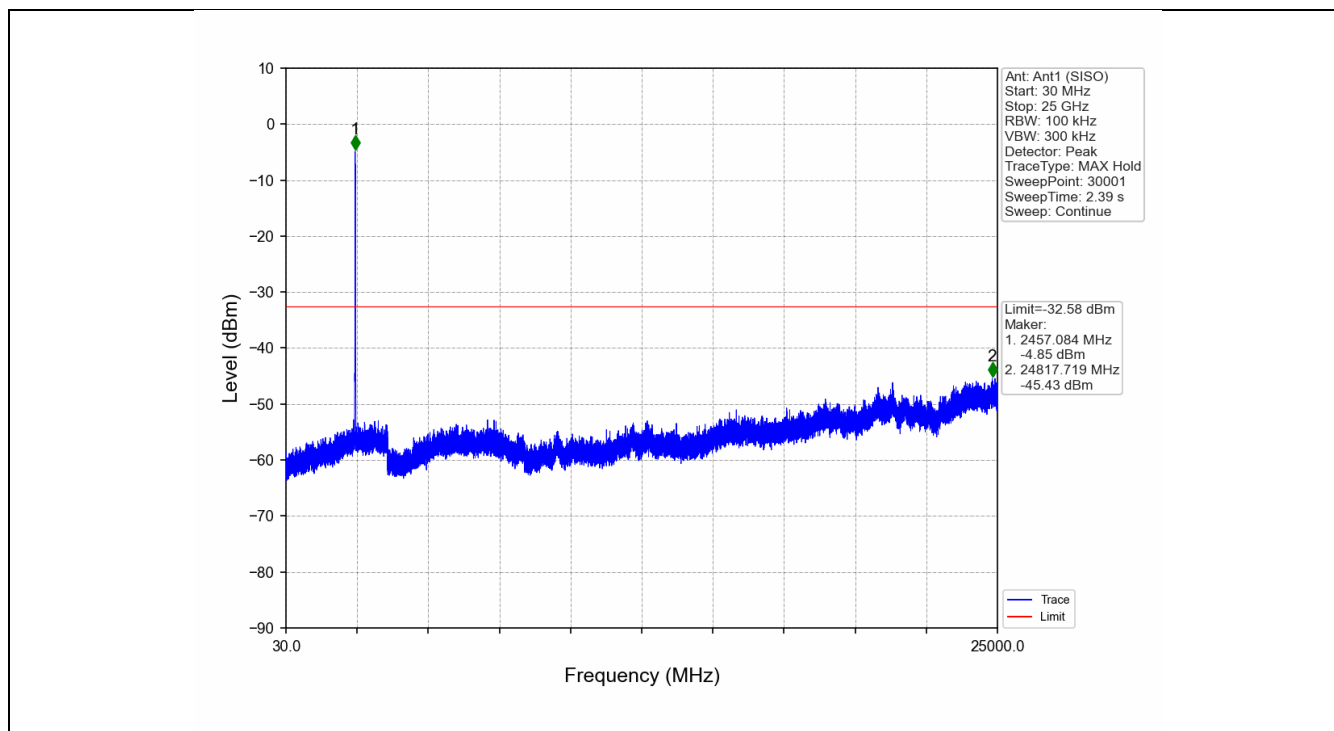


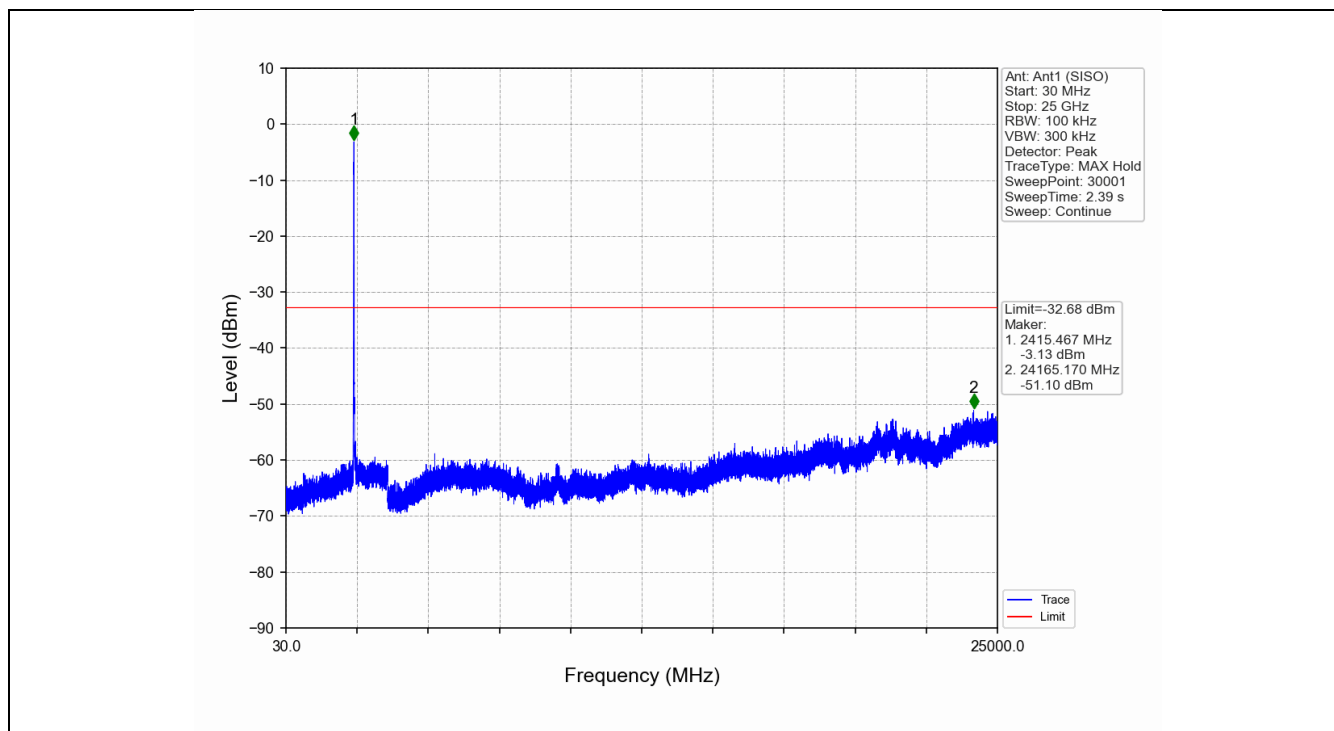




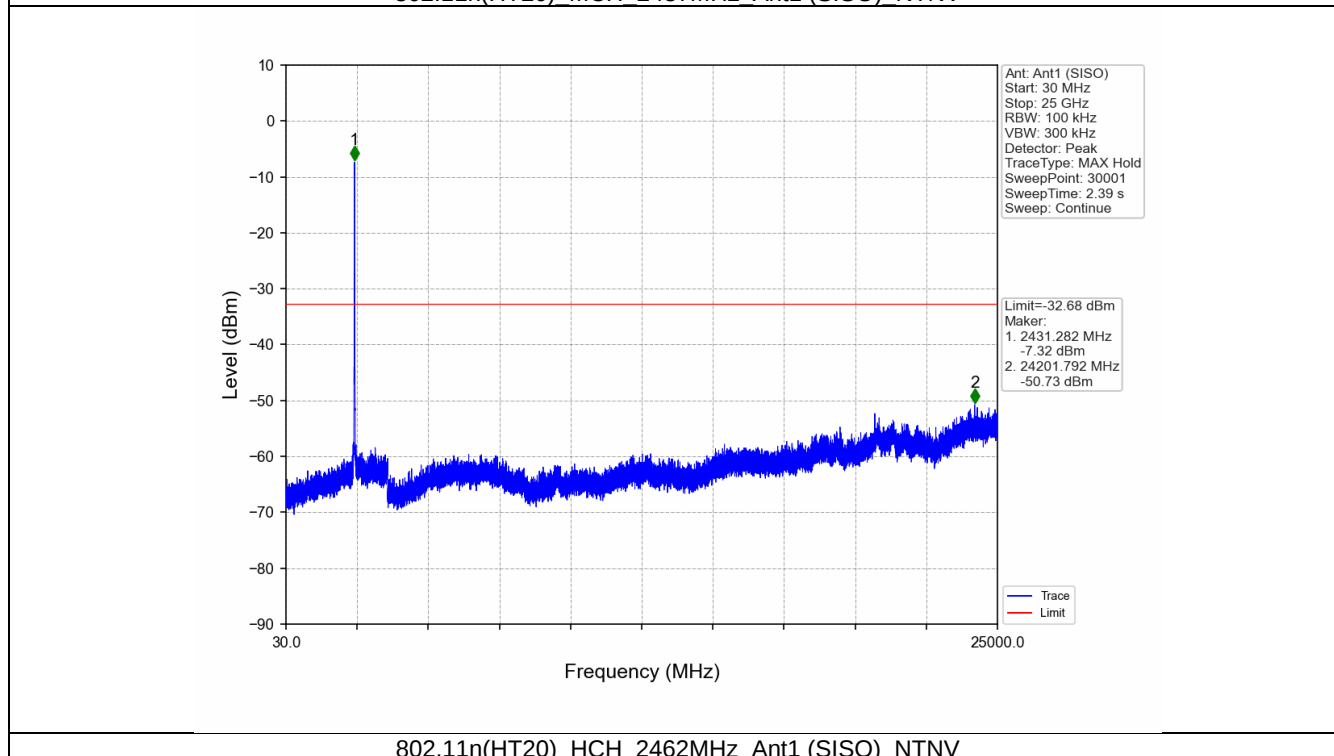








802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



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

