

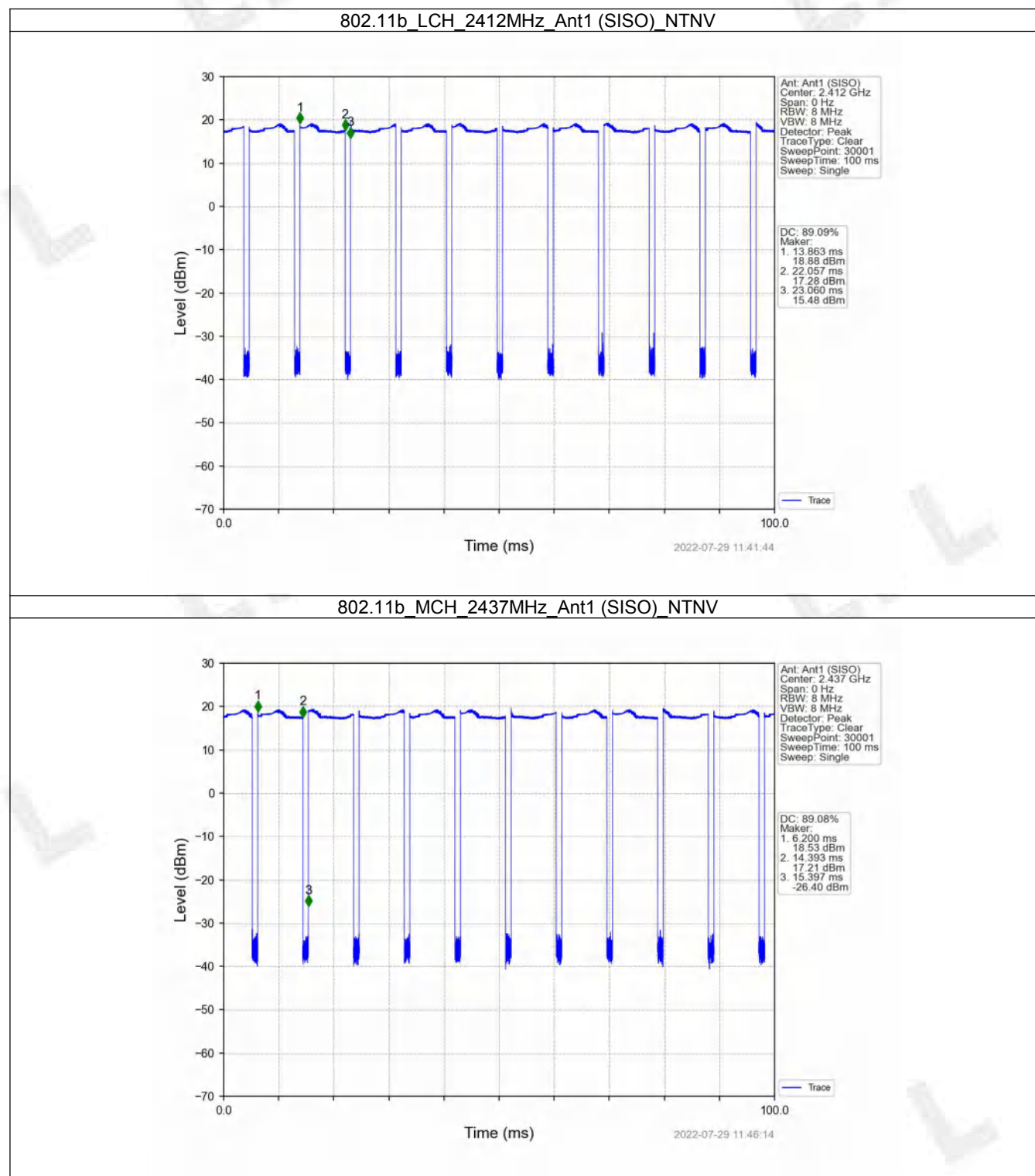
1. Duty Cycle

1.1 Ant1

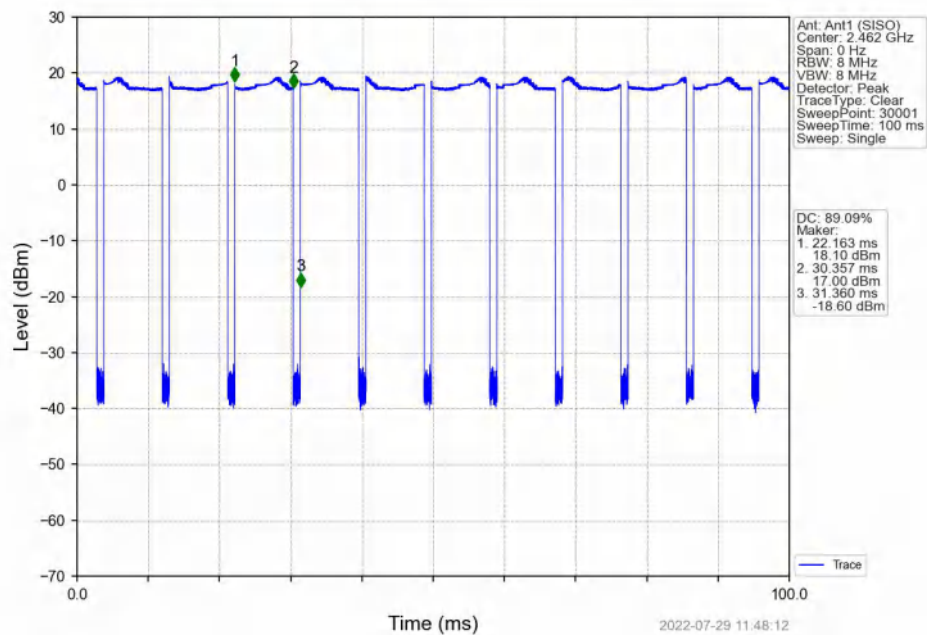
1.1.1 Test Result

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	8.194	9.197	89.09	0.50	0.00
		2437	8.193	9.197	89.08	0.50	0.04
		2462	8.194	9.197	89.09	0.50	0.04
802.11g	SISO	2412	1.361	2.364	57.57	2.40	0.02
		2437	1.360	2.364	57.53	2.40	0.02
		2462	1.360	2.363	57.55	2.40	0.03
802.11n (HT20)	SISO	2412	1.272	2.275	55.91	2.52	0.04
		2437	1.272	2.275	55.91	2.52	0.04
		2462	1.272	2.275	55.91	2.52	0.04
802.11n (HT40)	SISO	2422	0.633	1.636	38.69	4.12	0.03
		2437	0.632	1.635	38.65	4.13	0.03
		2452	0.632	1.635	38.65	4.13	0.03

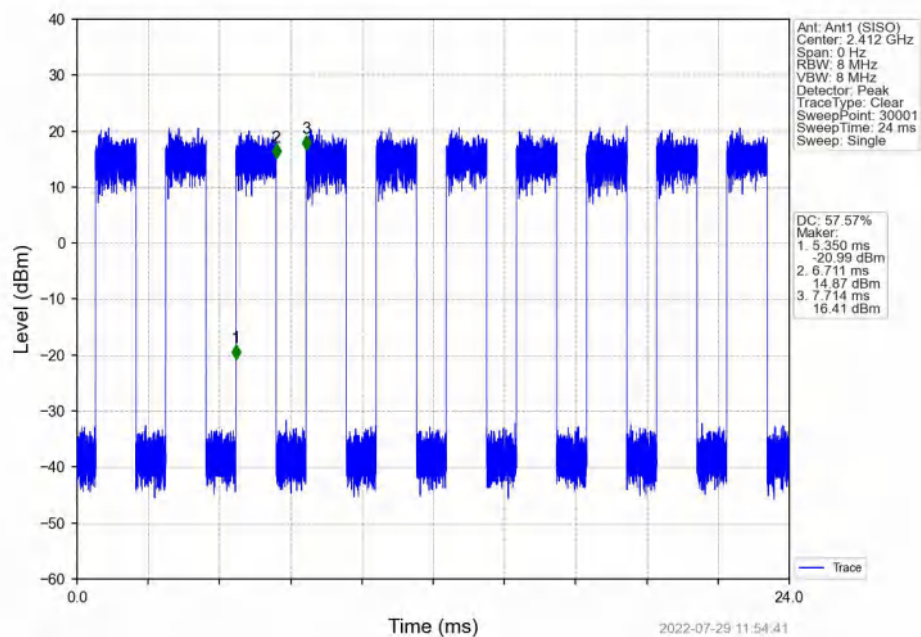
1.1.2 Test Graph



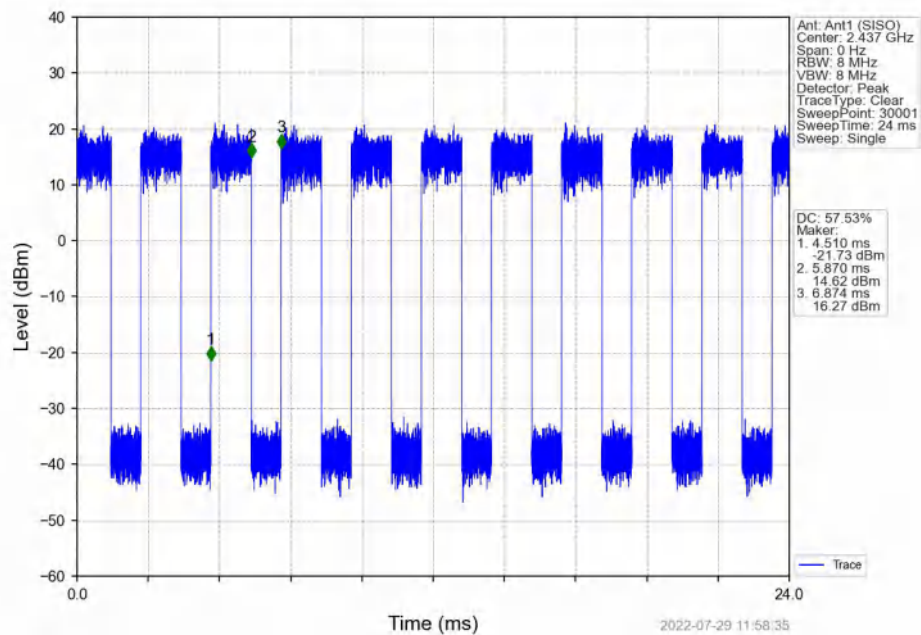
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



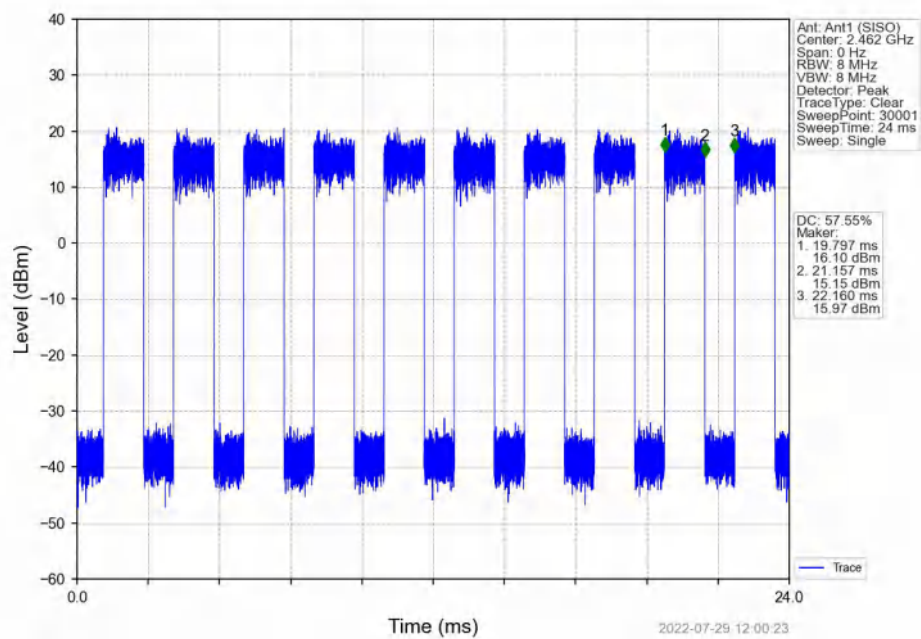
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



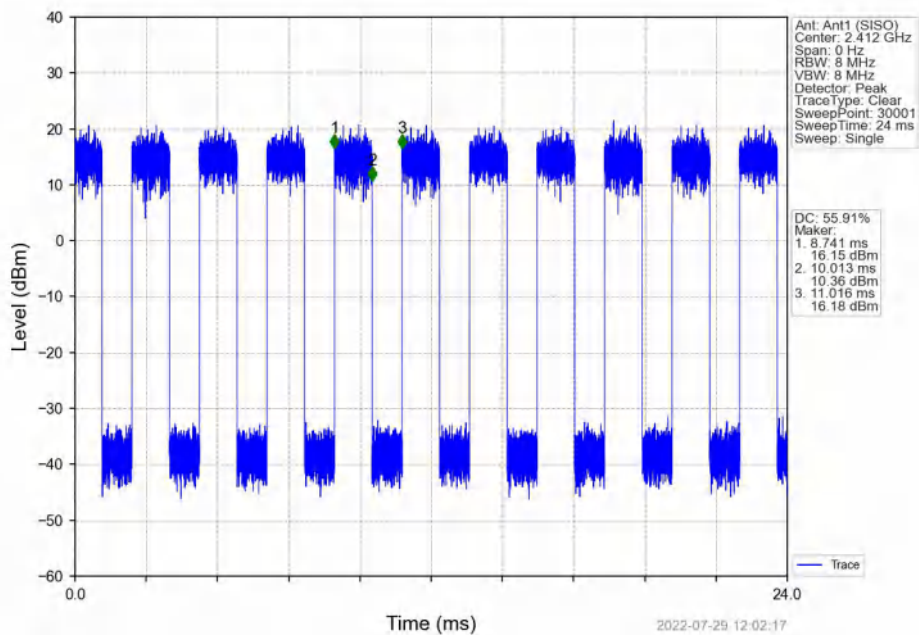
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



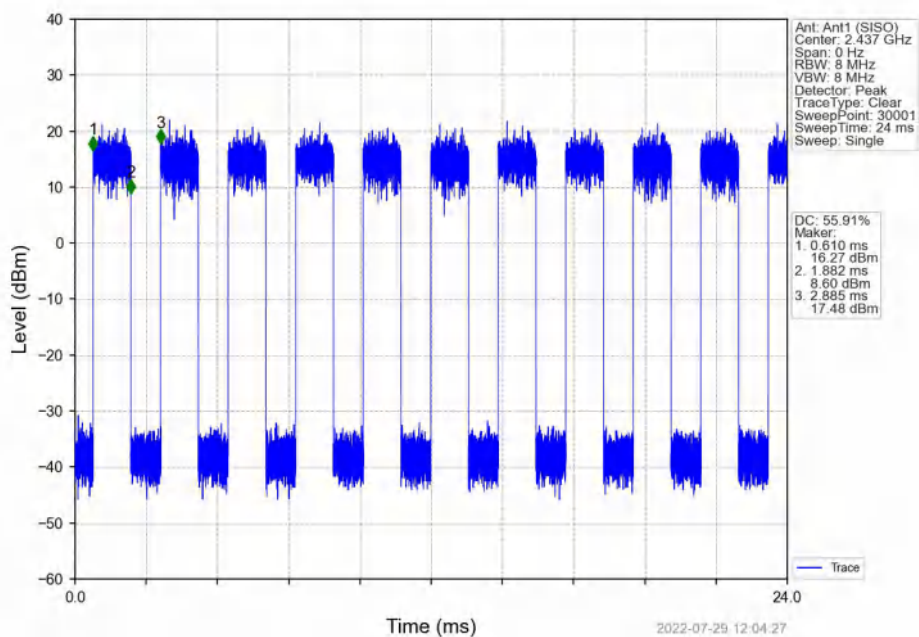
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



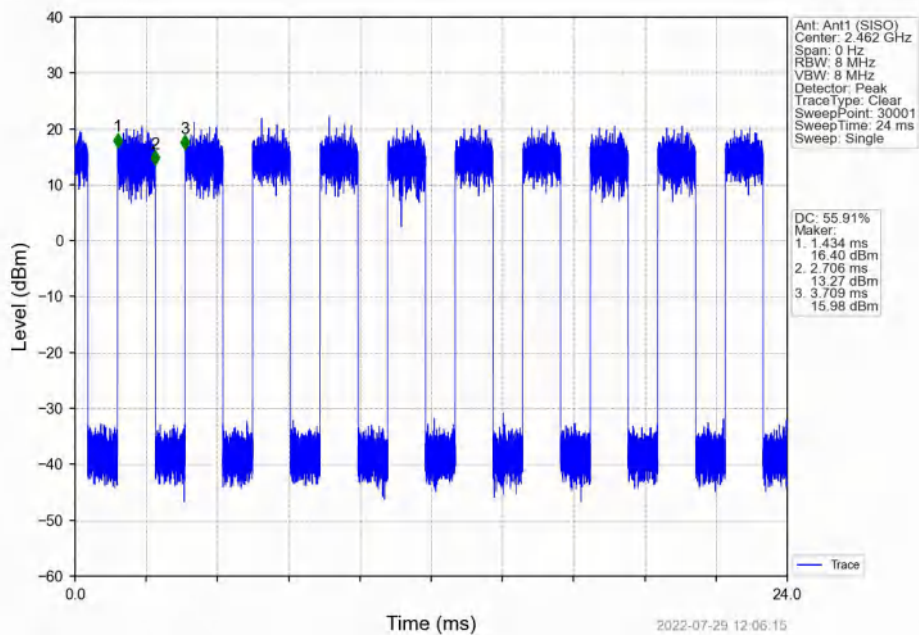
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



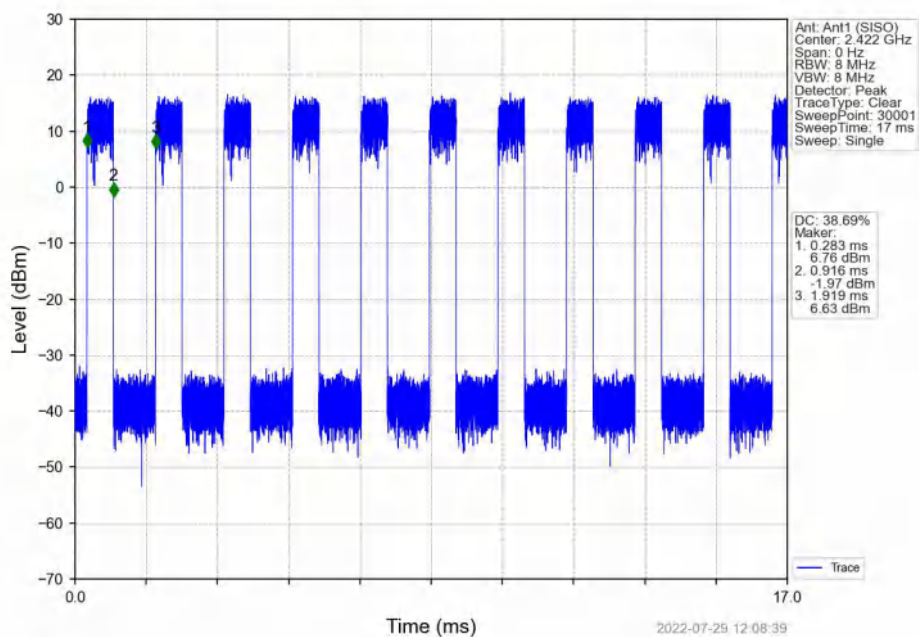
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



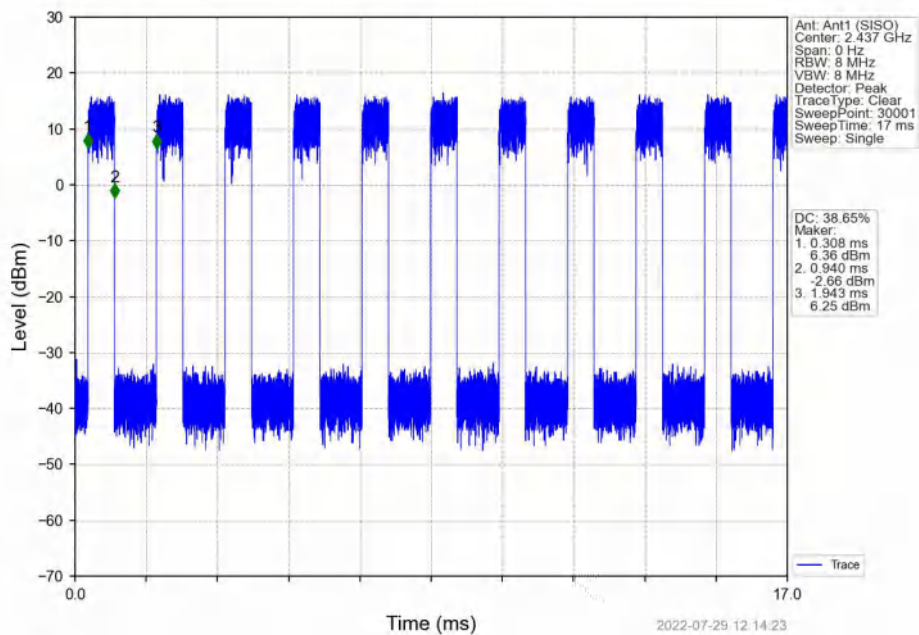
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



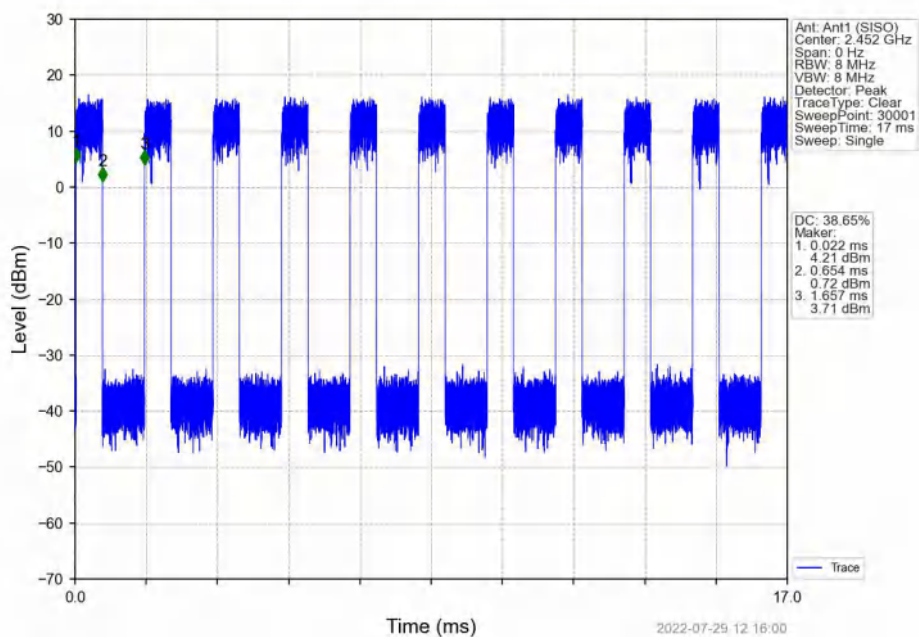
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



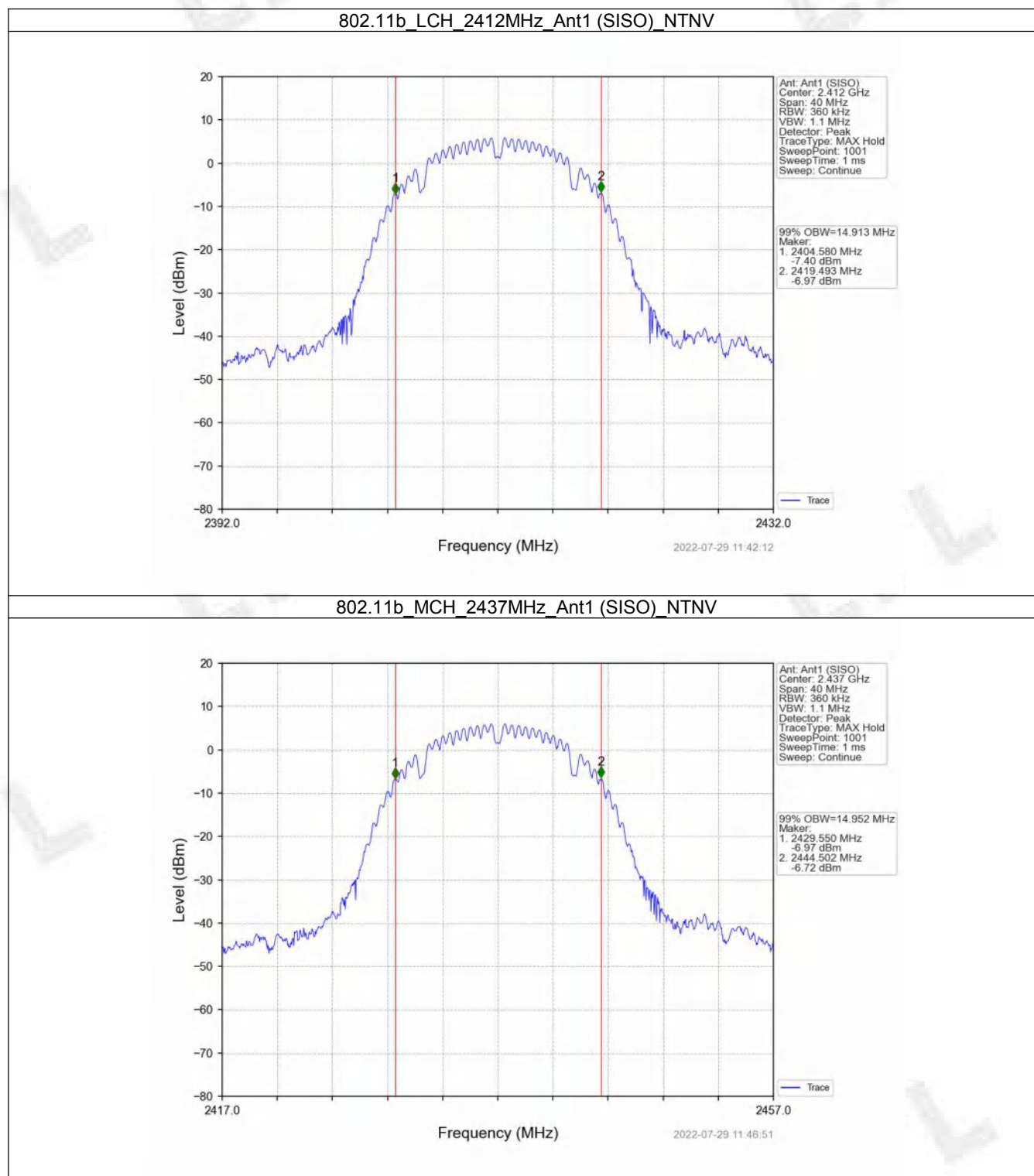
2. Bandwidth

2.1 OBW

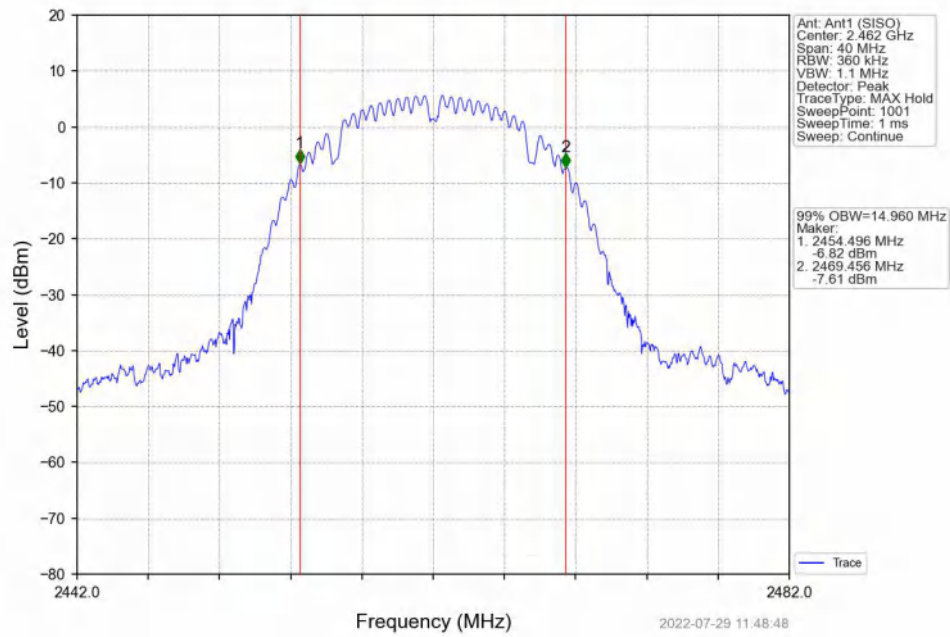
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.913	Pass
		2437	1	14.952	Pass
		2462	1	14.960	Pass
802.11g	SISO	2412	1	17.433	Pass
		2437	1	17.483	Pass
		2462	1	17.419	Pass
802.11n (HT20)	SISO	2412	1	18.374	Pass
		2437	1	18.406	Pass
		2462	1	18.342	Pass
802.11n (HT40)	SISO	2422	1	36.685	Pass
		2437	1	36.666	Pass
		2452	1	36.625	Pass

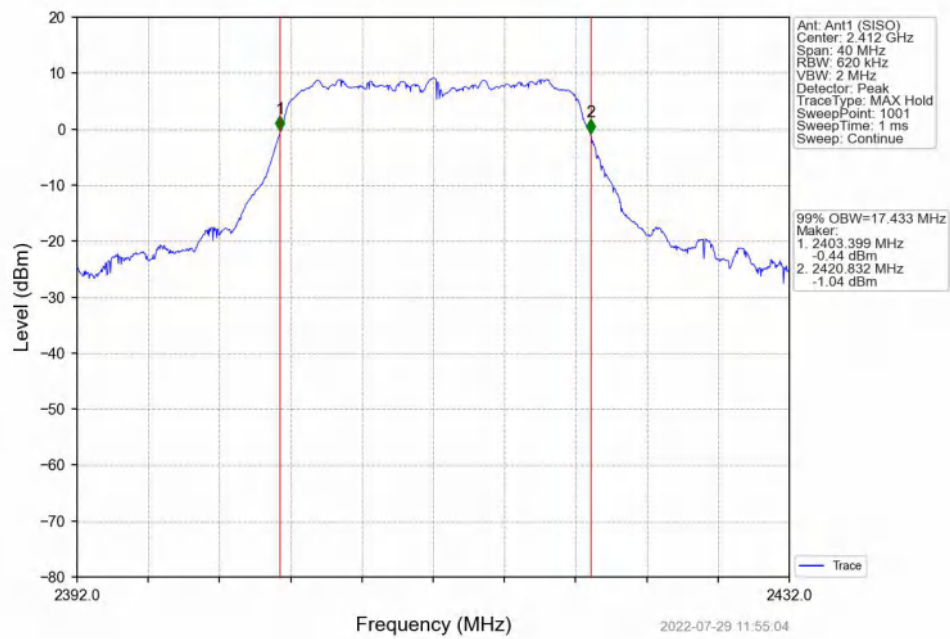
2.1.2 Test Graph



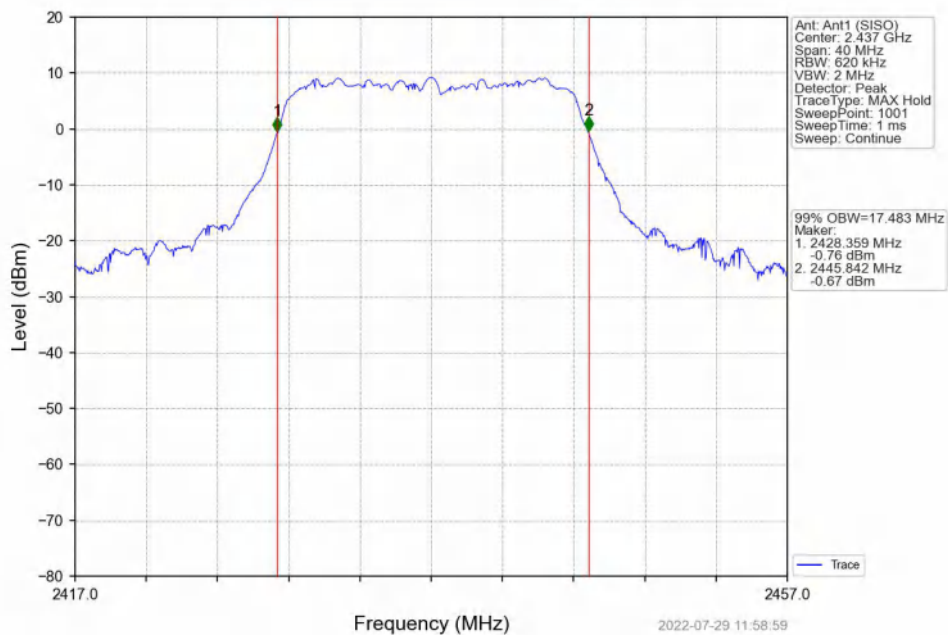
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



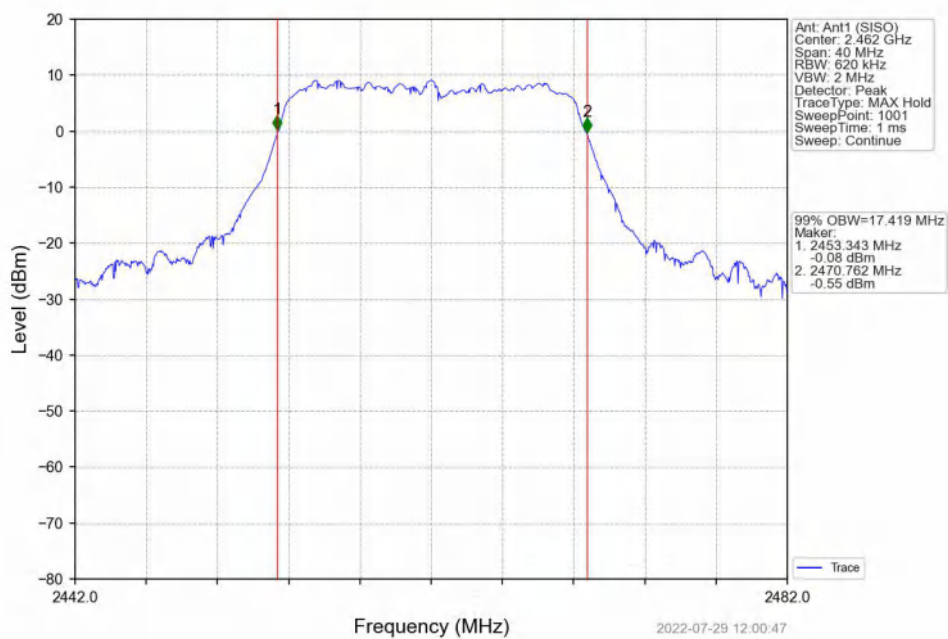
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



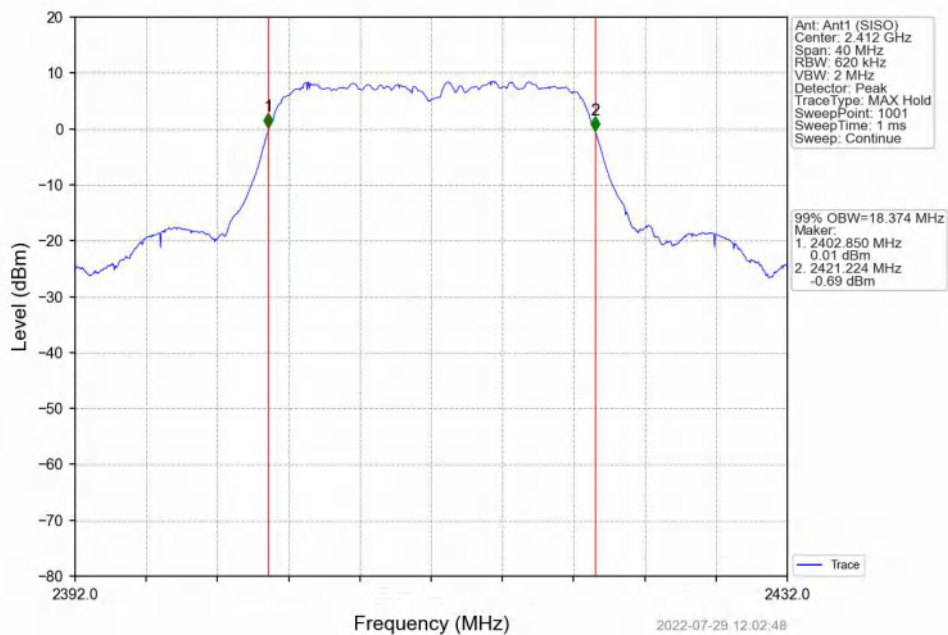
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



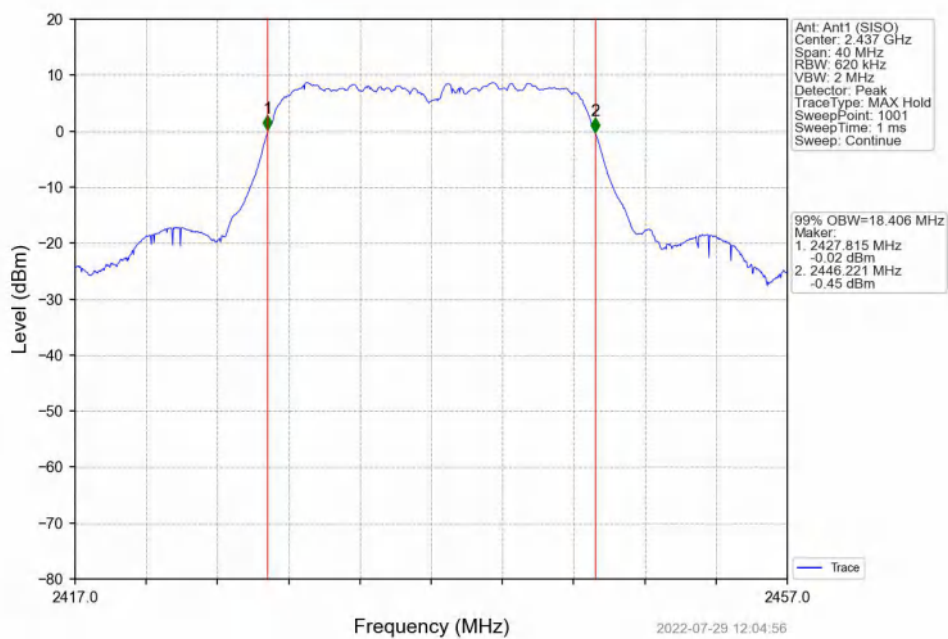
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



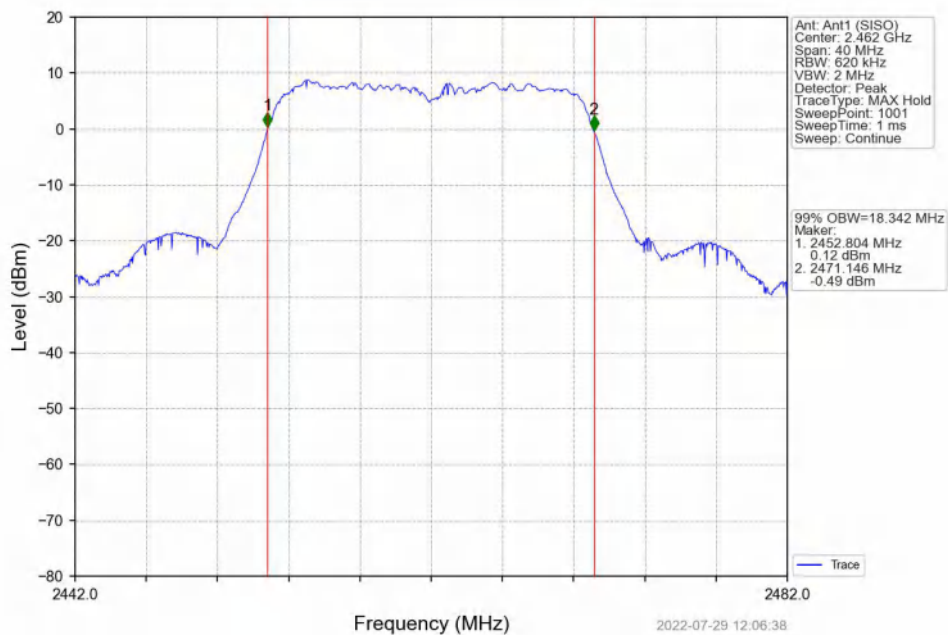
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



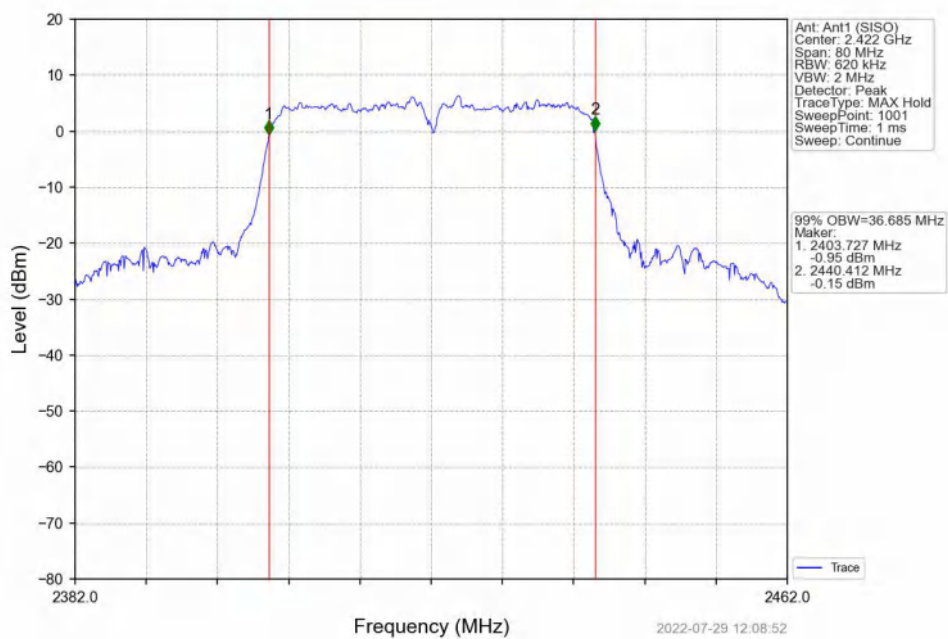
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



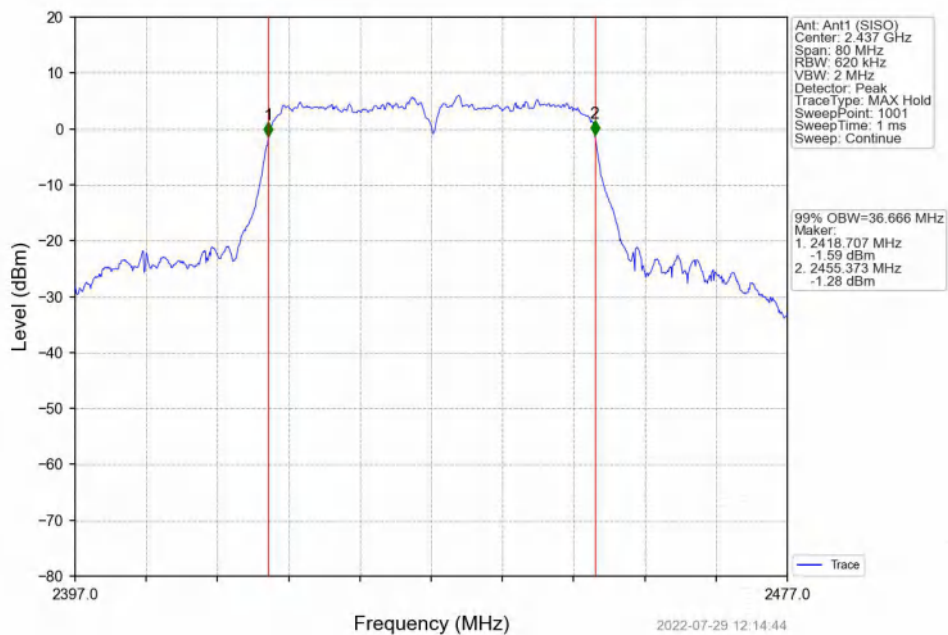
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



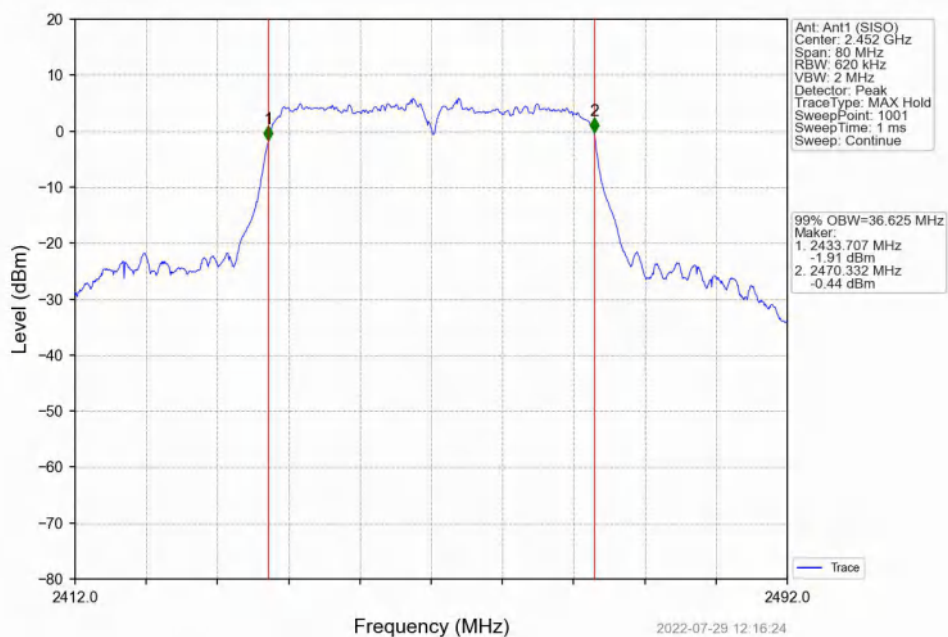
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

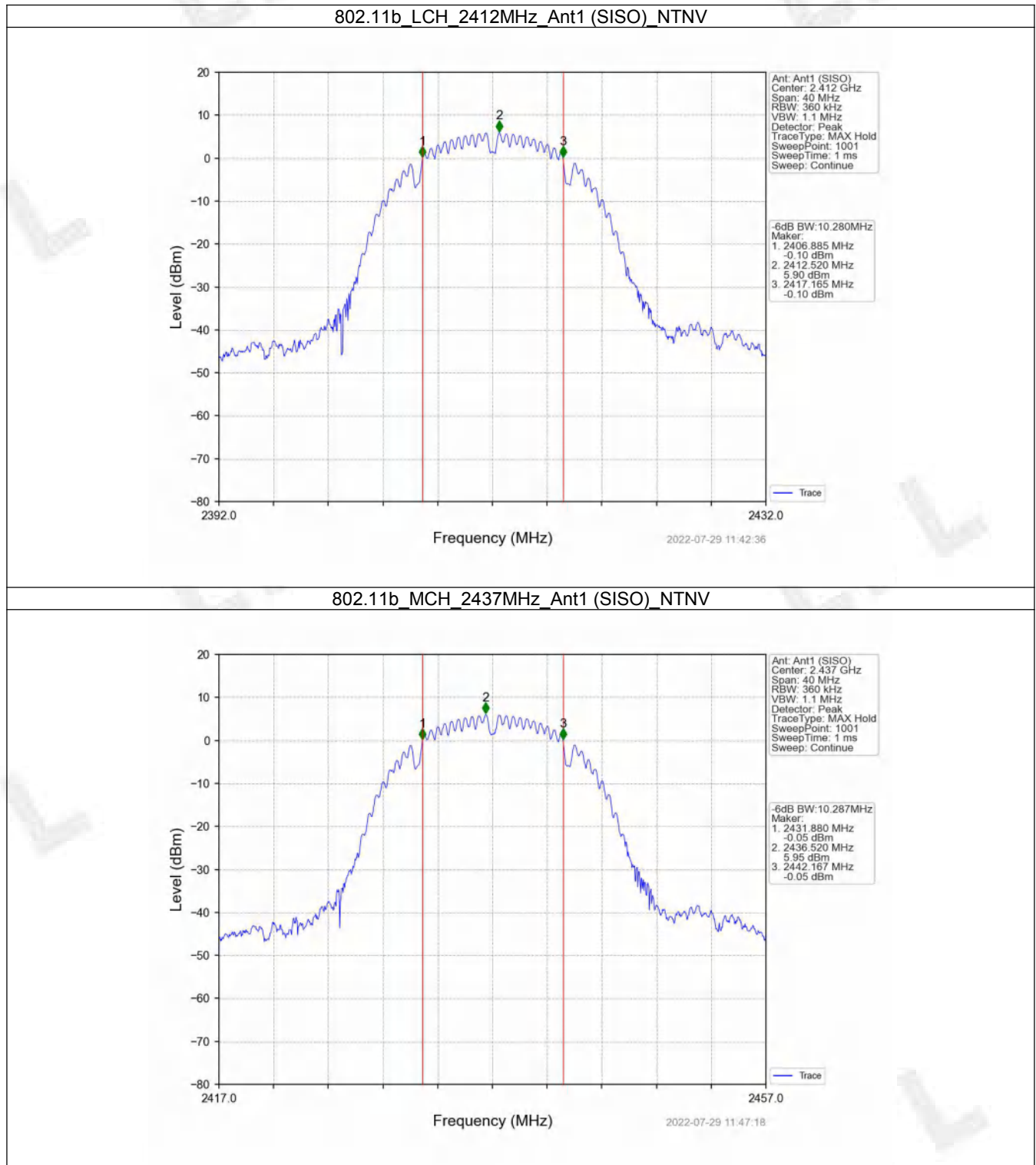


2.2 6dB BW

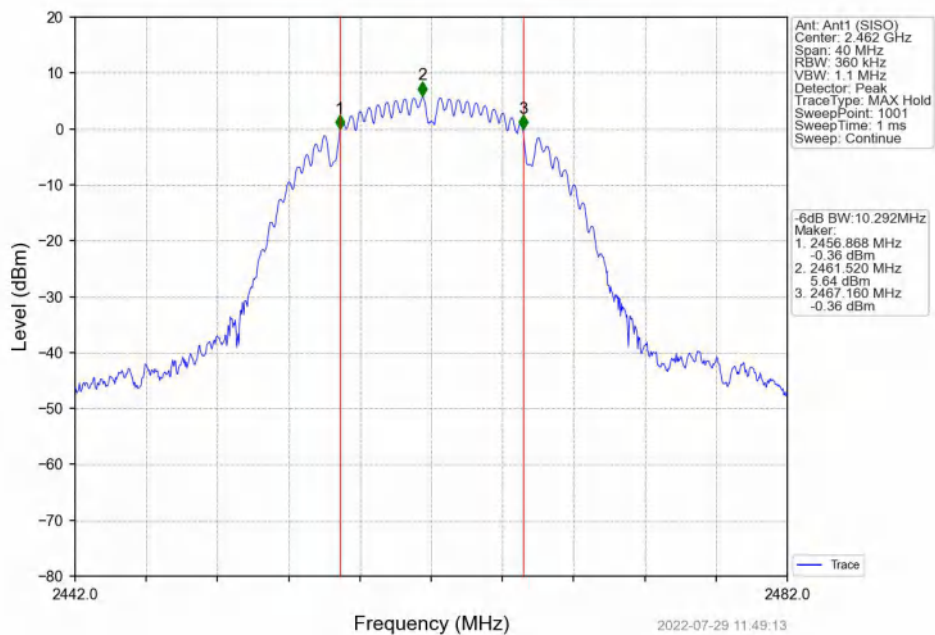
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.280	>=0.5	Pass
		2437	1	10.287	>=0.5	Pass
		2462	1	10.292	>=0.5	Pass
802.11g	SISO	2412	1	16.584	>=0.5	Pass
		2437	1	16.624	>=0.5	Pass
		2462	1	16.639	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.691	>=0.5	Pass
		2437	1	17.700	>=0.5	Pass
		2462	1	17.633	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.276	>=0.5	Pass
		2437	1	36.331	>=0.5	Pass
		2452	1	36.301	>=0.5	Pass

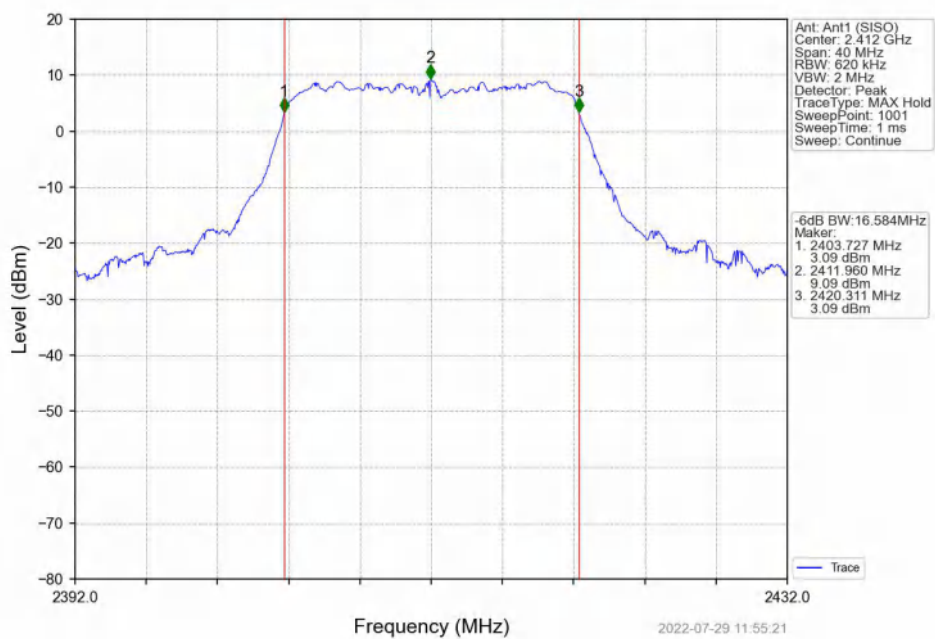
2.2.2 Test Graph



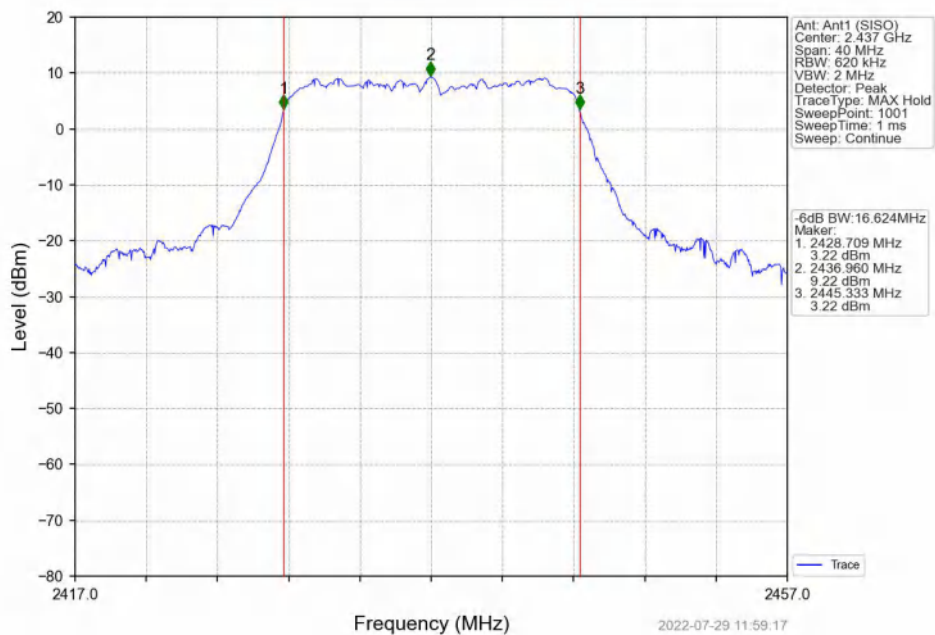
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



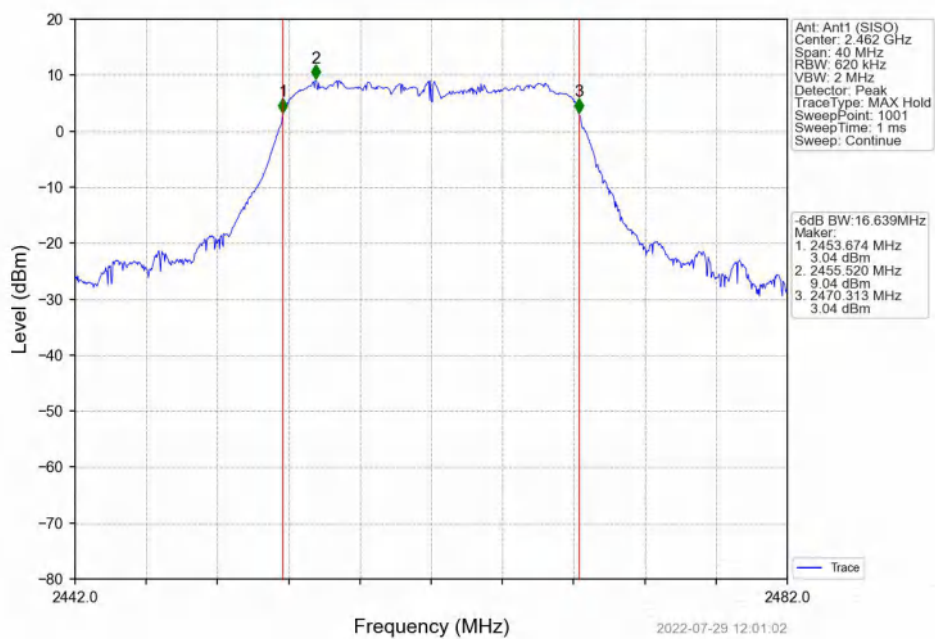
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



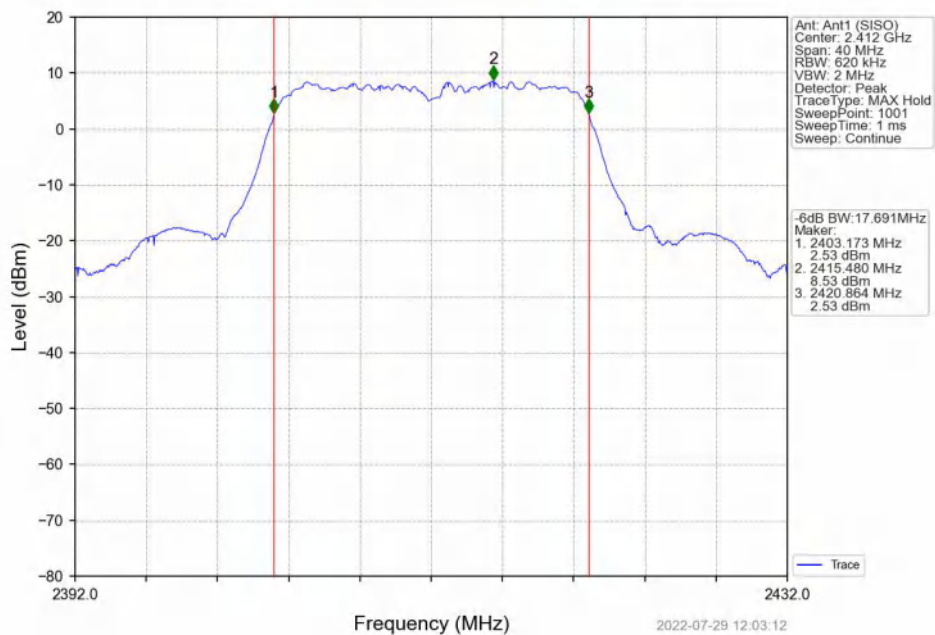
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



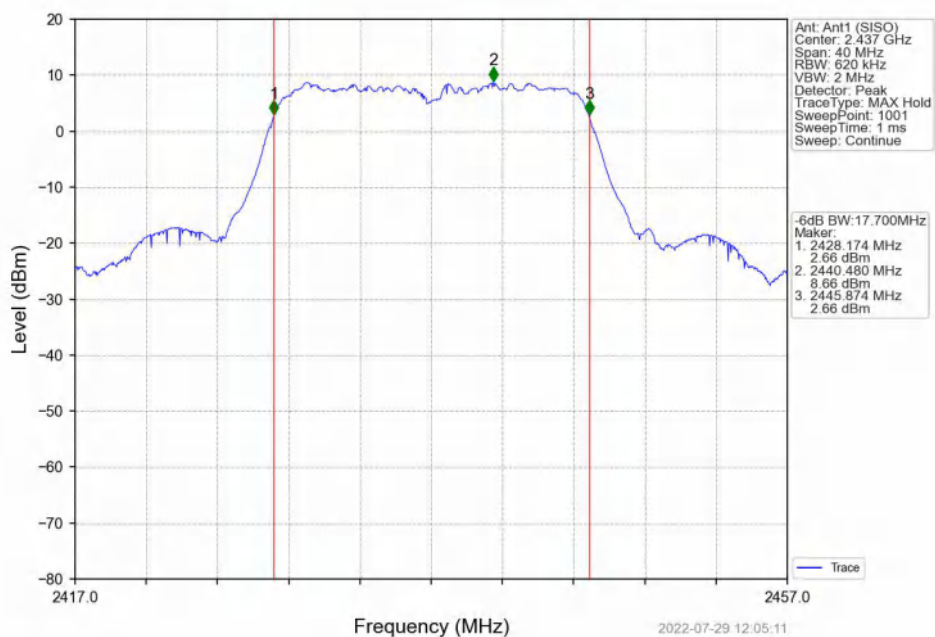
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



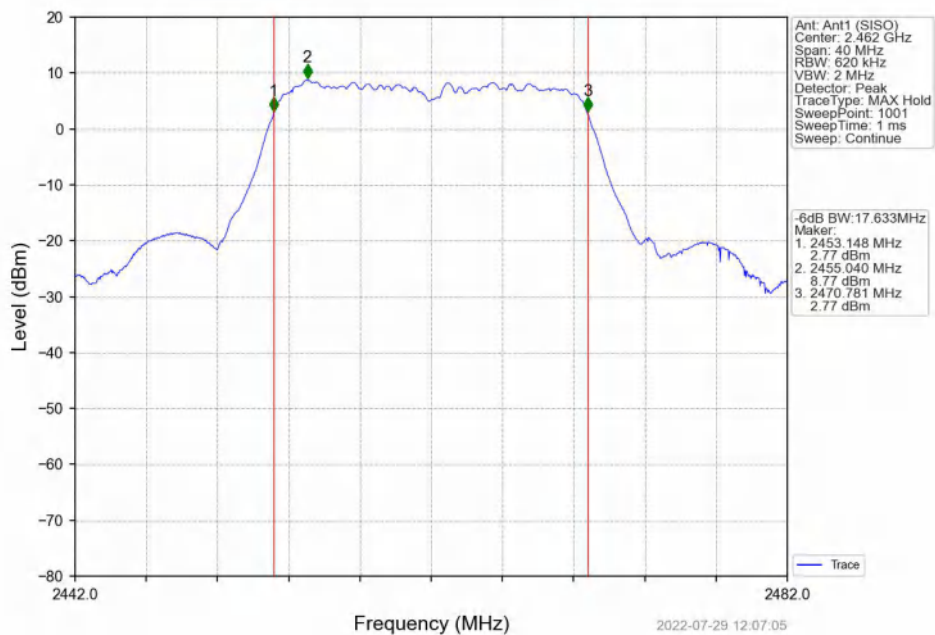
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



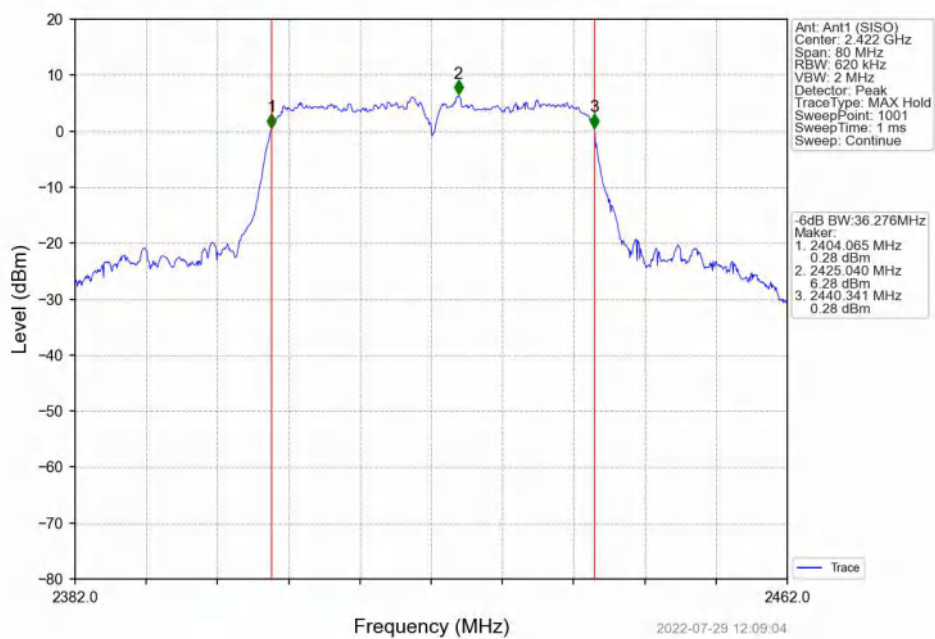
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



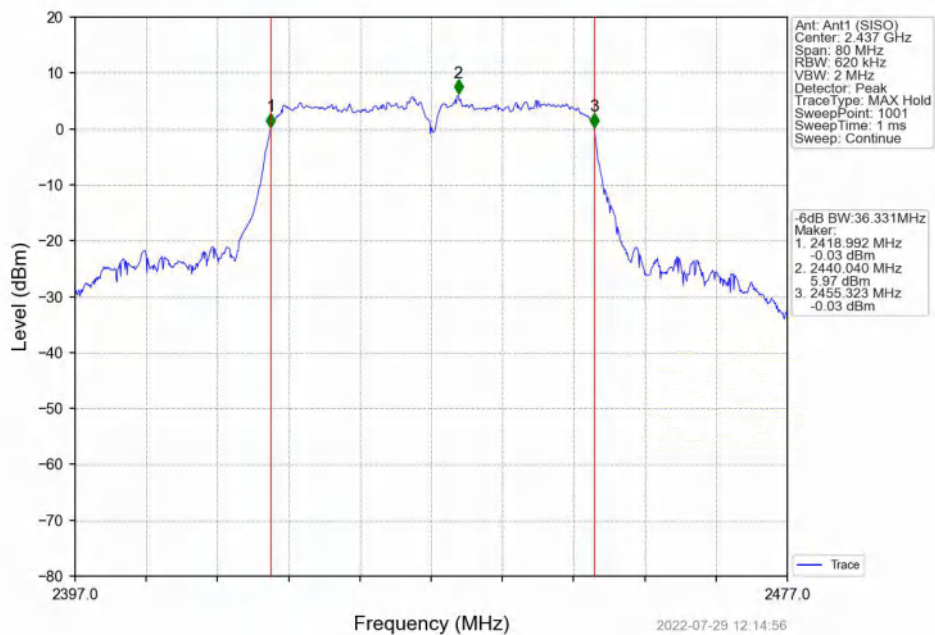
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



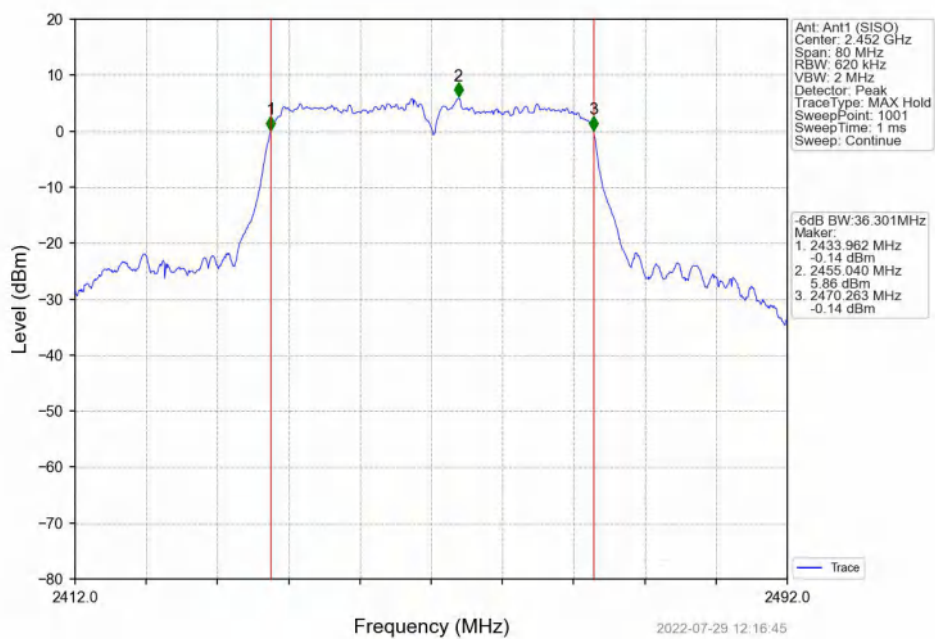
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



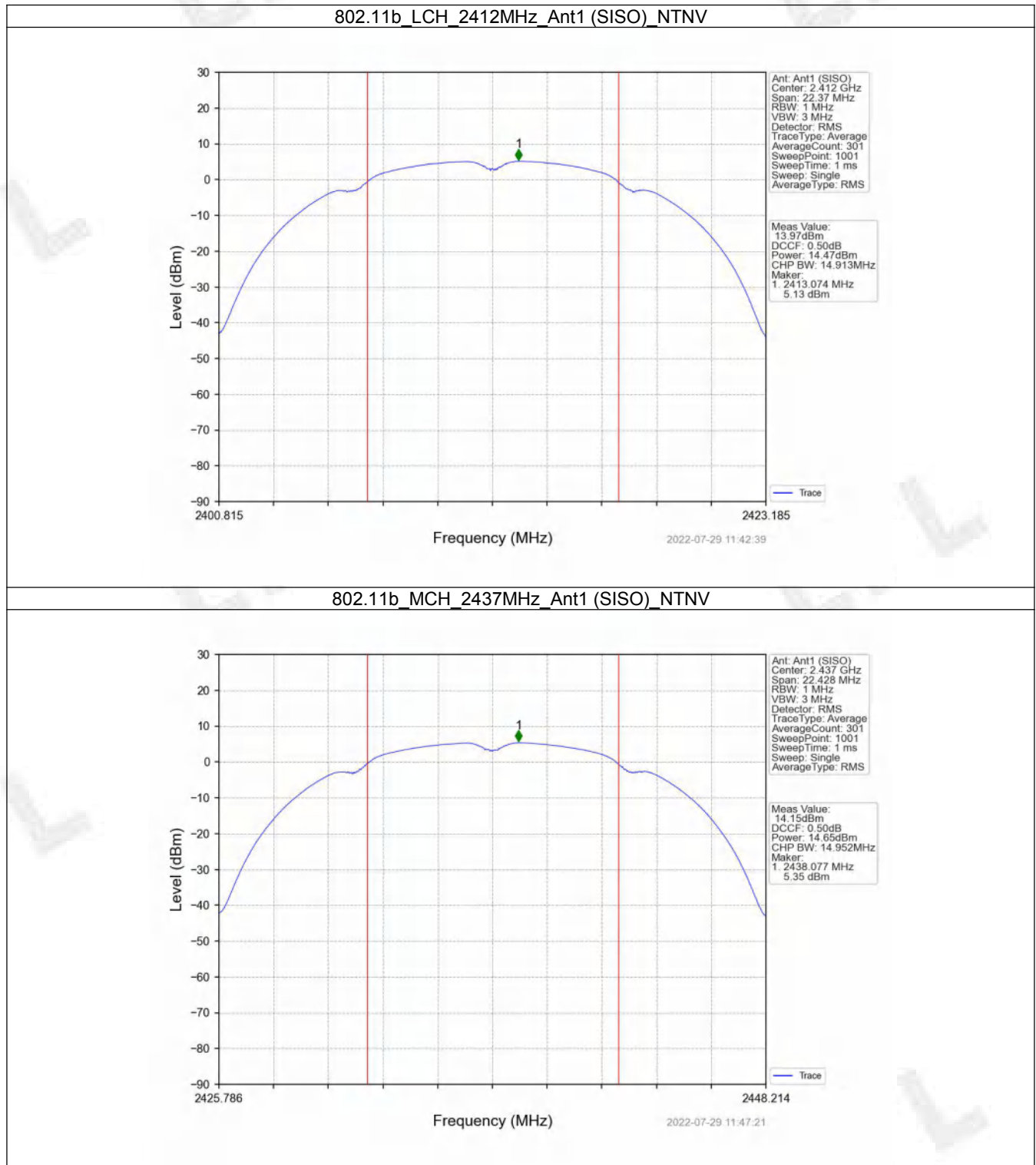
3. Maximum Conducted Output Power

3.1 Power

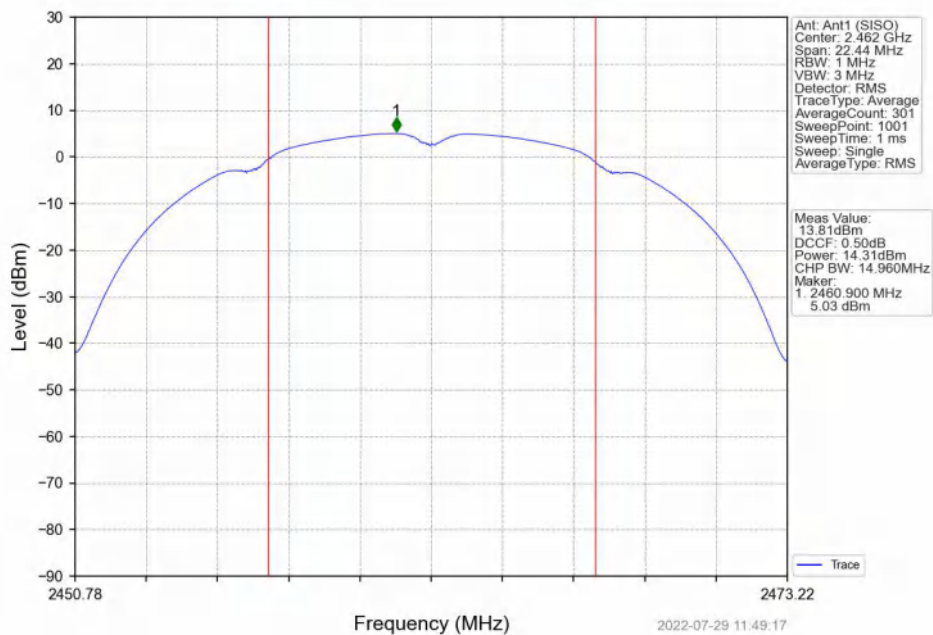
3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	14.47	<=30	Pass
		2437	14.65	<=30	Pass
		2462	14.31	<=30	Pass
802.11g	SISO	2412	14.44	<=30	Pass
		2437	14.65	<=30	Pass
		2462	14.39	<=30	Pass
802.11n (HT20)	SISO	2412	14.47	<=30	Pass
		2437	14.60	<=30	Pass
		2462	14.30	<=30	Pass
802.11n (HT40)	SISO	2422	14.53	<=30	Pass
		2437	14.39	<=30	Pass
		2452	14.18	<=30	Pass
Note1: Antenna Gain: Ant1: 2.21dBi;					

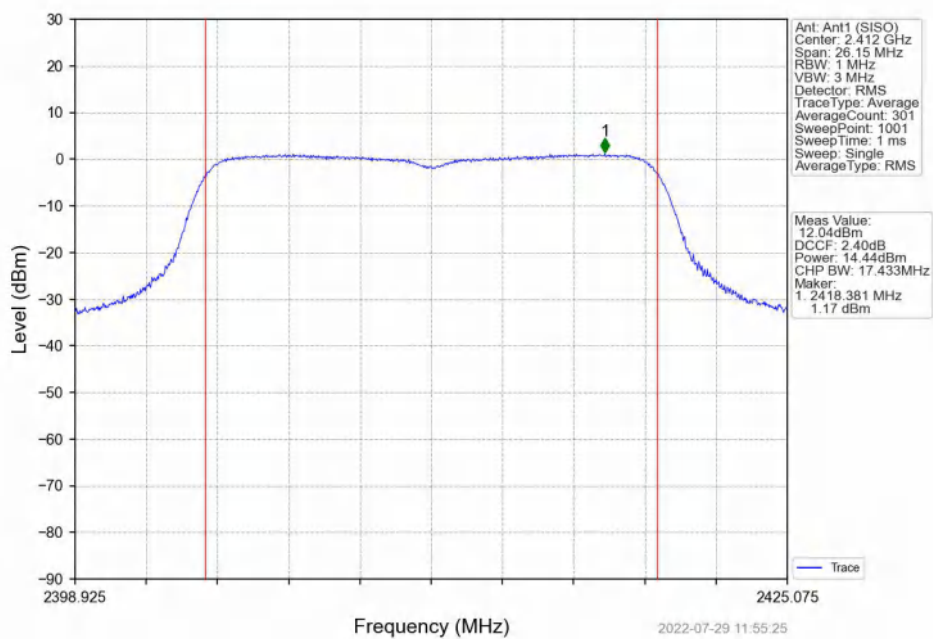
3.1.2 Test Graph



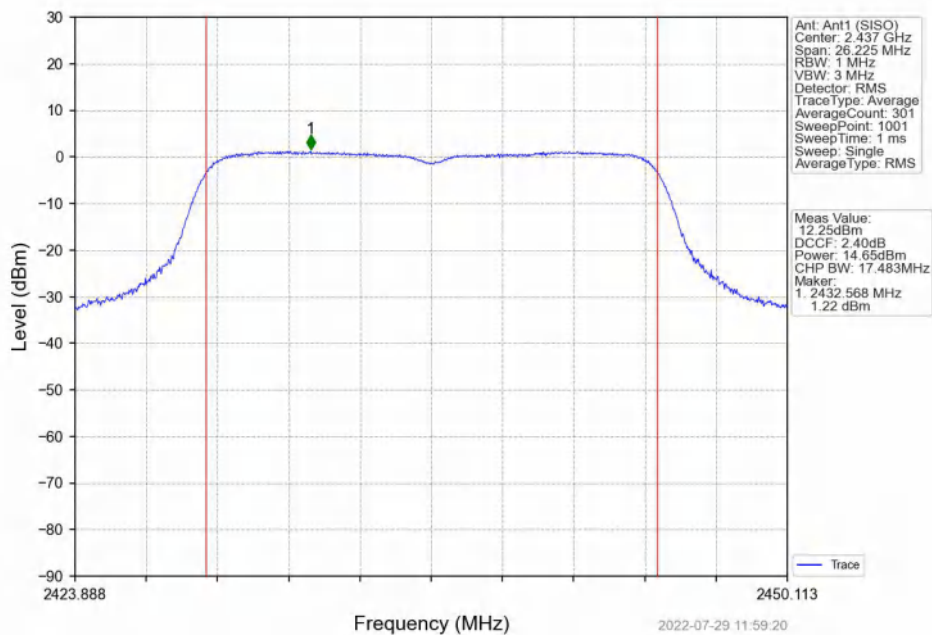
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



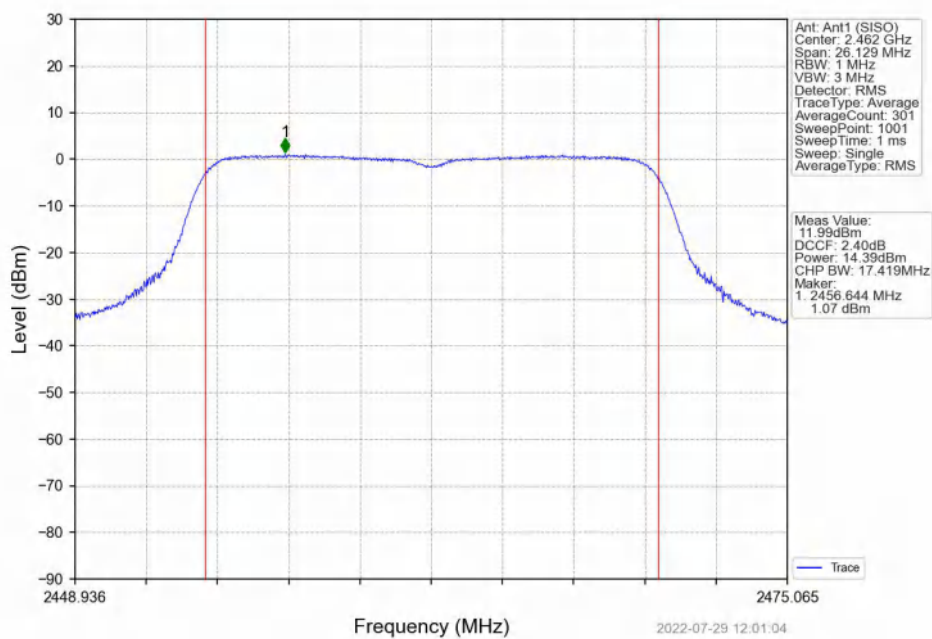
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



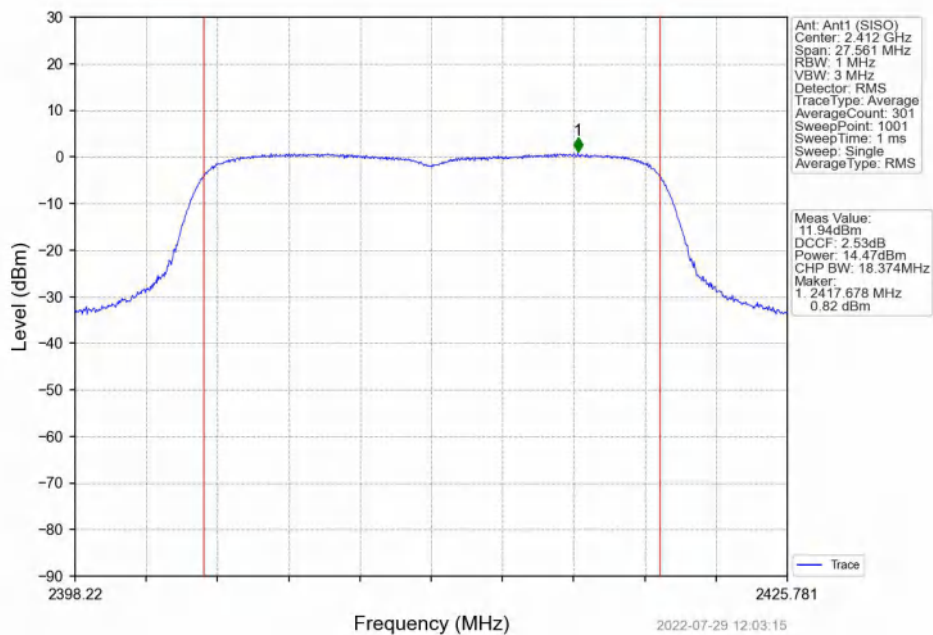
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



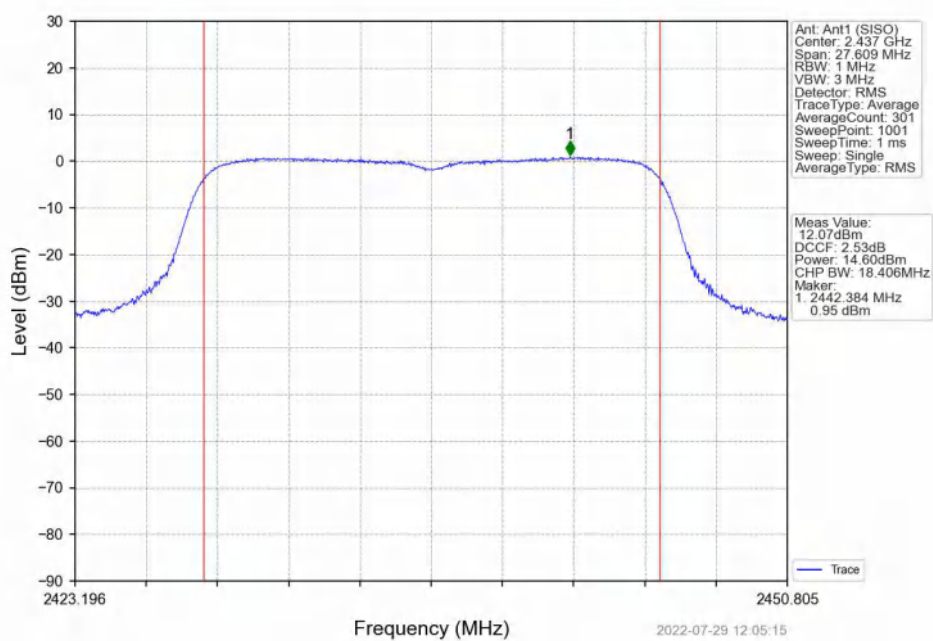
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



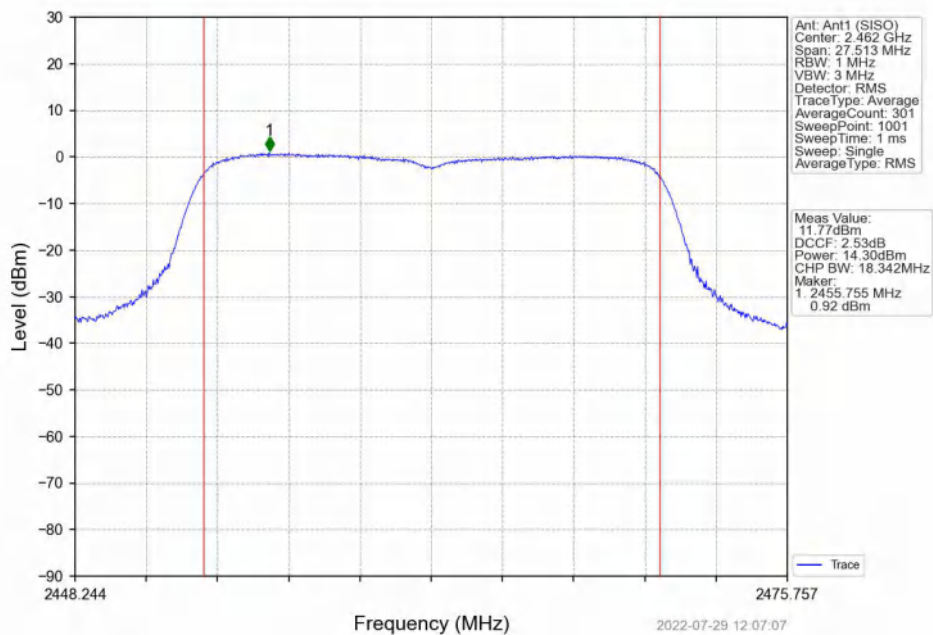
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



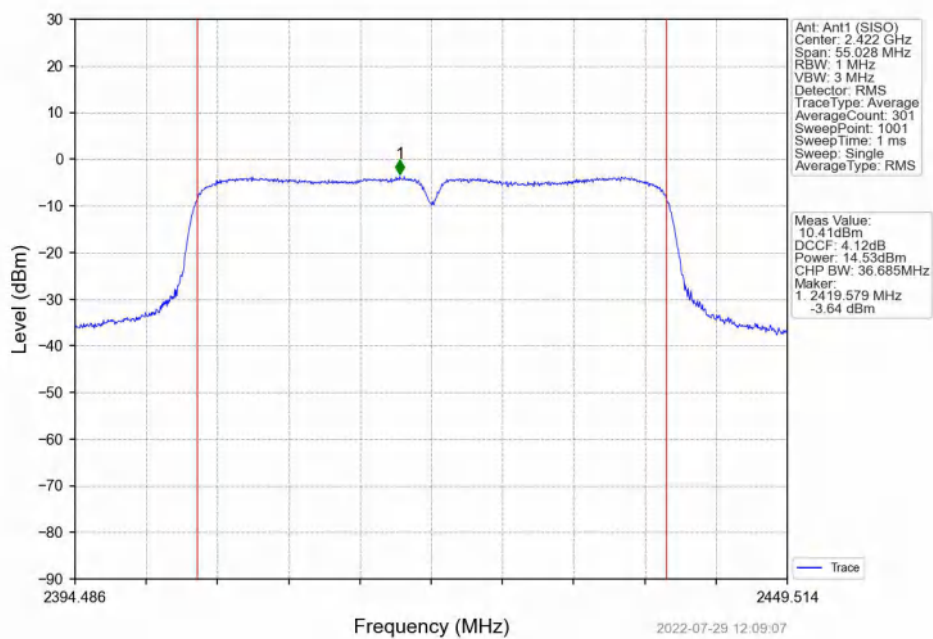
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



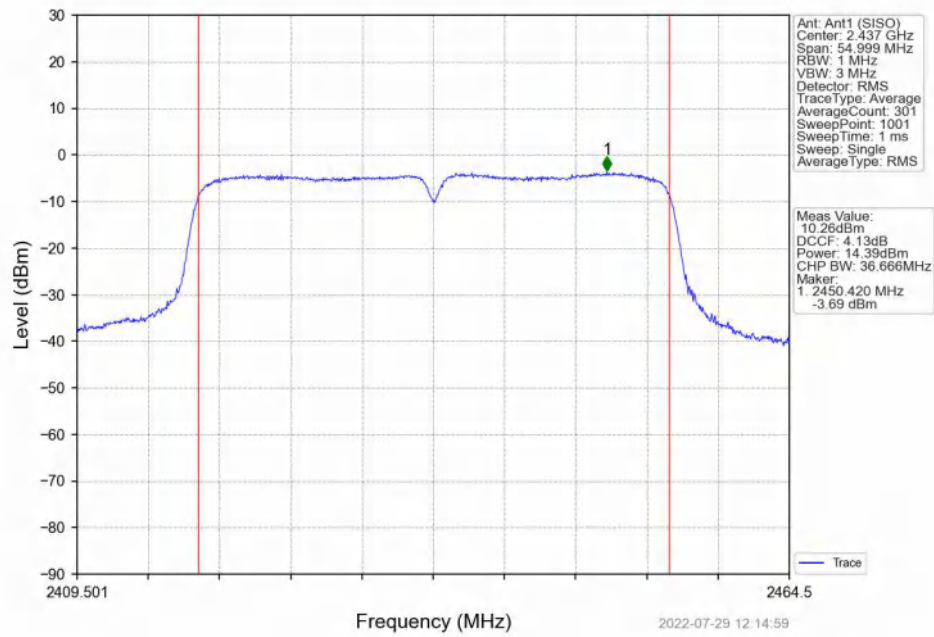
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



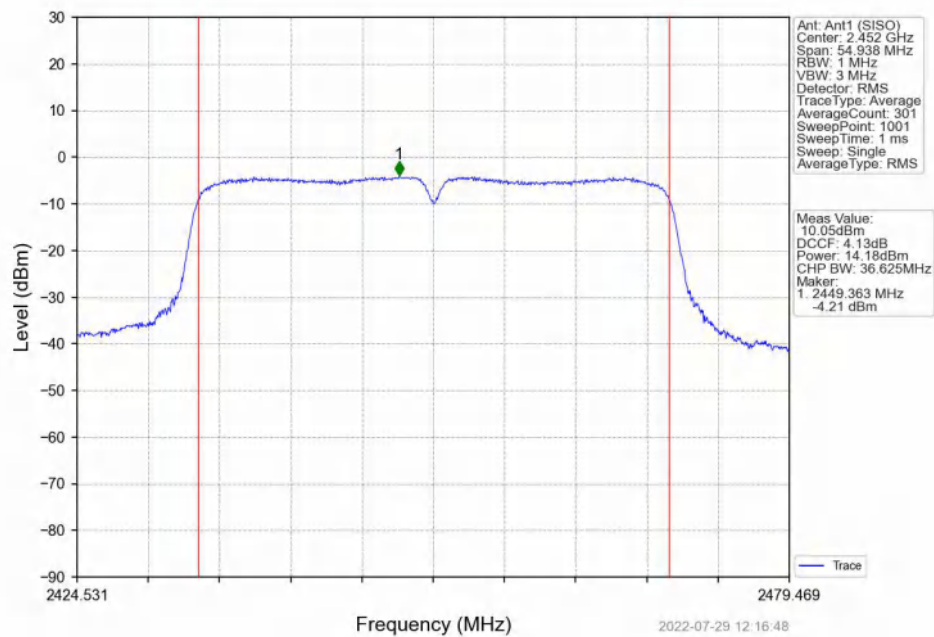
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



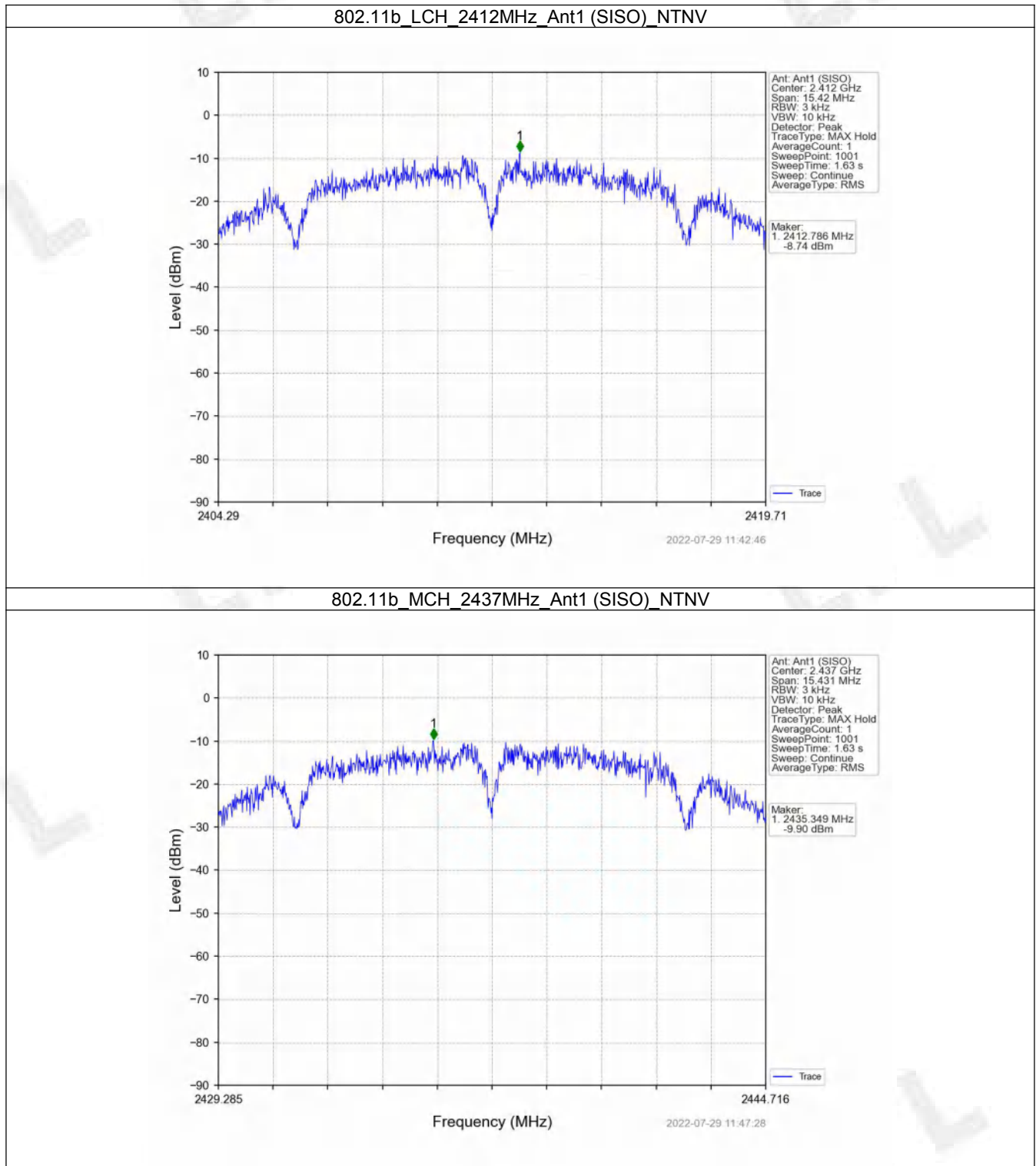
4. Maximum Power Spectral Density

4.1 PSD

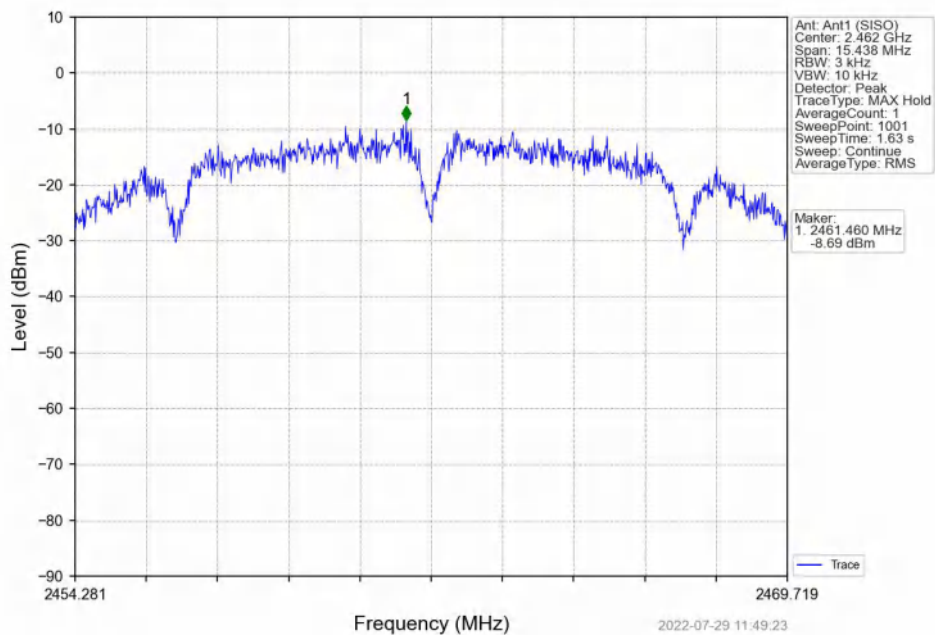
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-8.74	<=8	Pass
		2437	-9.90	<=8	Pass
		2462	-8.69	<=8	Pass
802.11g	SISO	2412	-10.53	<=8	Pass
		2437	-11.14	<=8	Pass
		2462	-11.35	<=8	Pass
802.11n (HT20)	SISO	2412	-11.40	<=8	Pass
		2437	-11.36	<=8	Pass
		2462	-11.16	<=8	Pass
802.11n (HT40)	SISO	2422	-13.66	<=8	Pass
		2437	-13.82	<=8	Pass
		2452	-14.47	<=8	Pass
Note1: Antenna Gain: Ant1: 2.21dBi;					

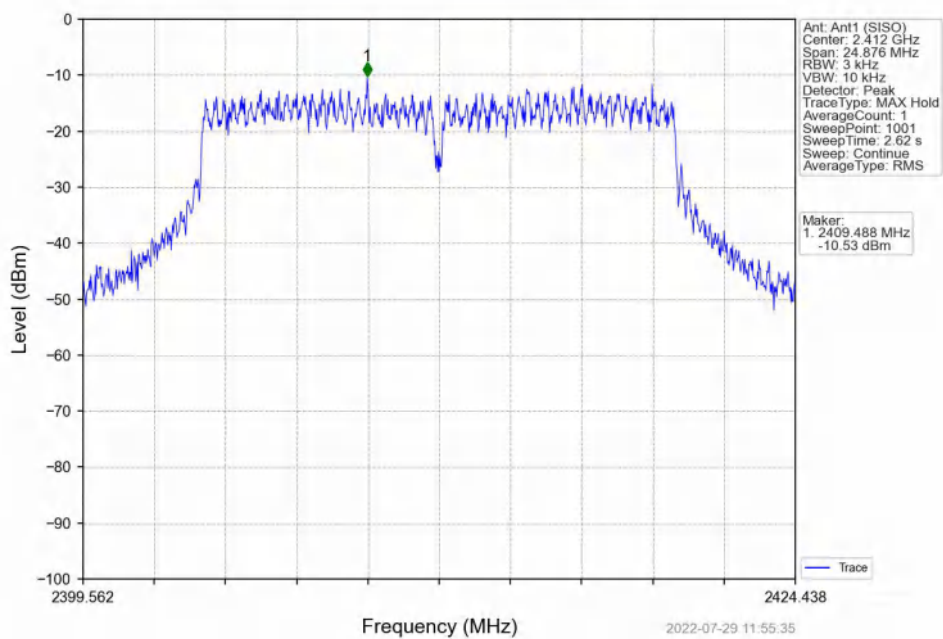
4.1.2 Test Graph



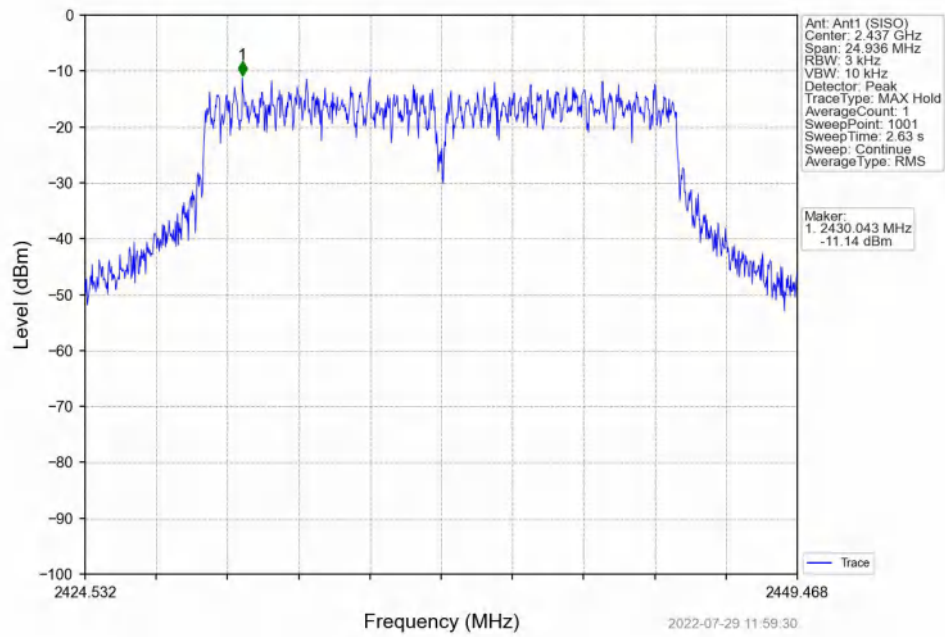
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



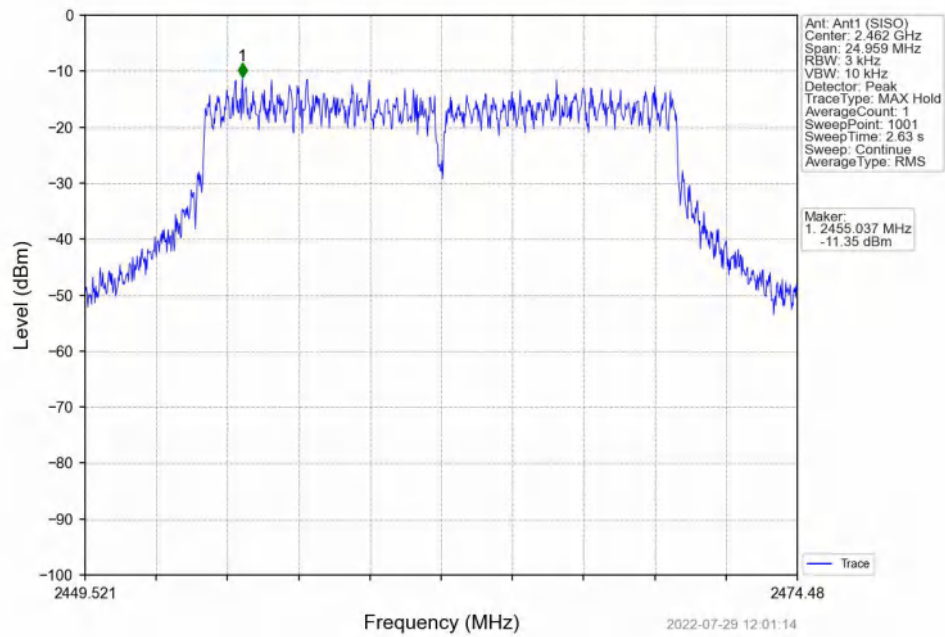
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



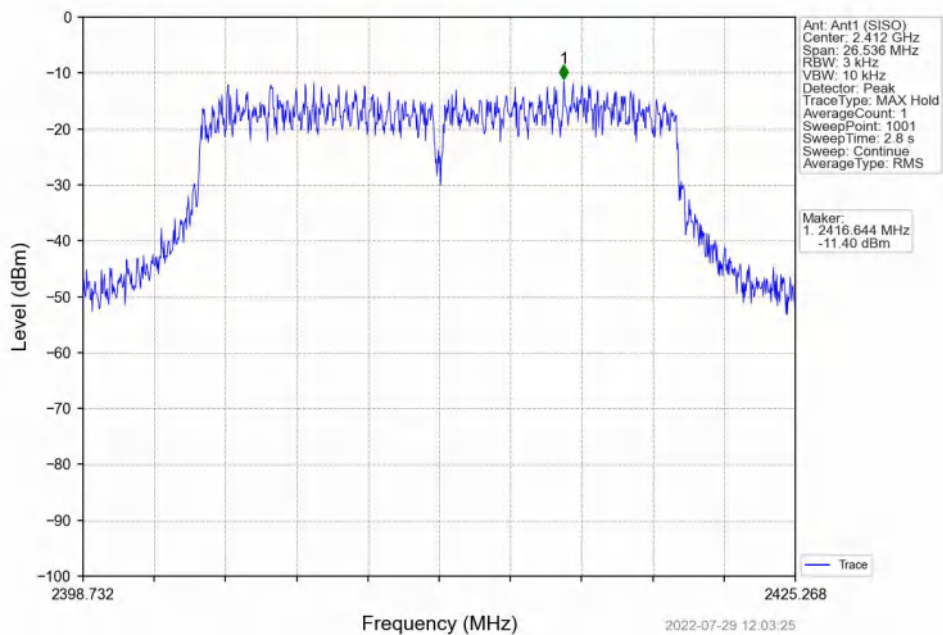
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



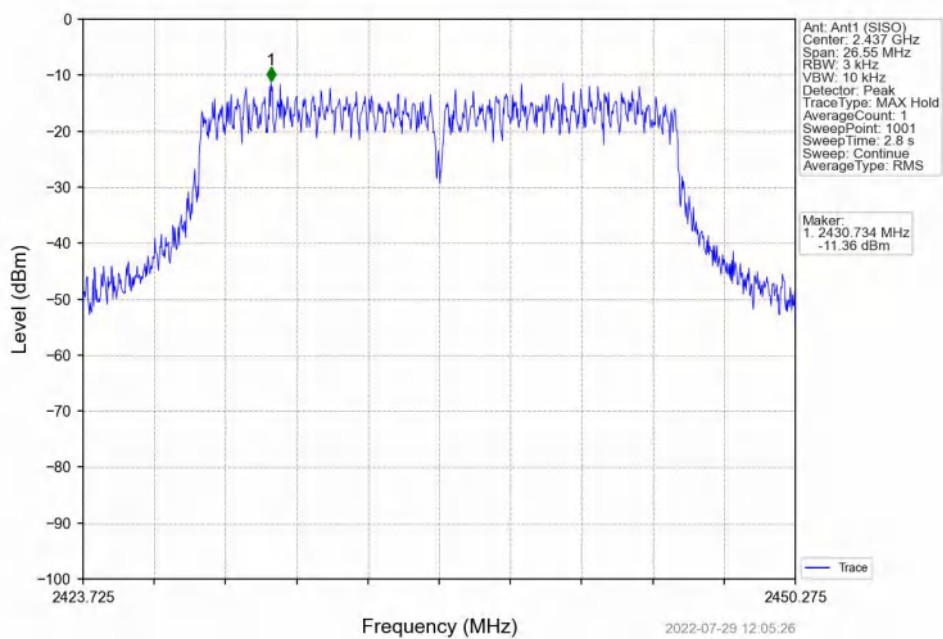
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



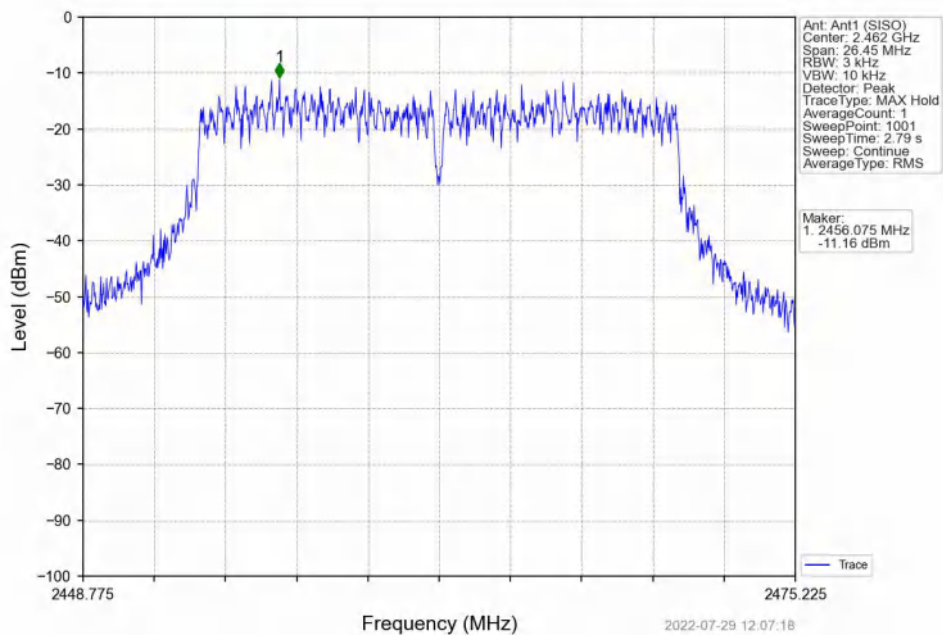
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



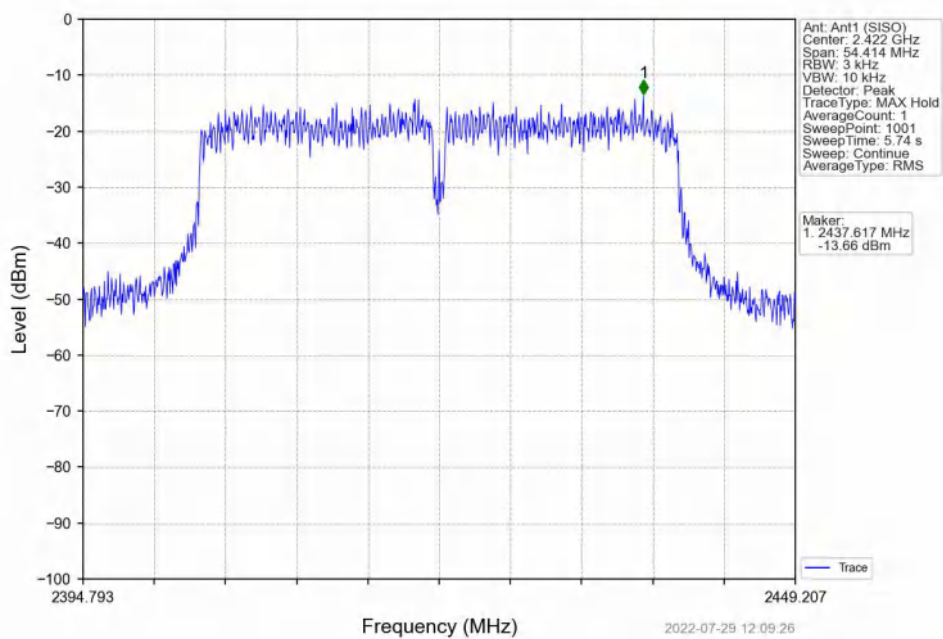
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



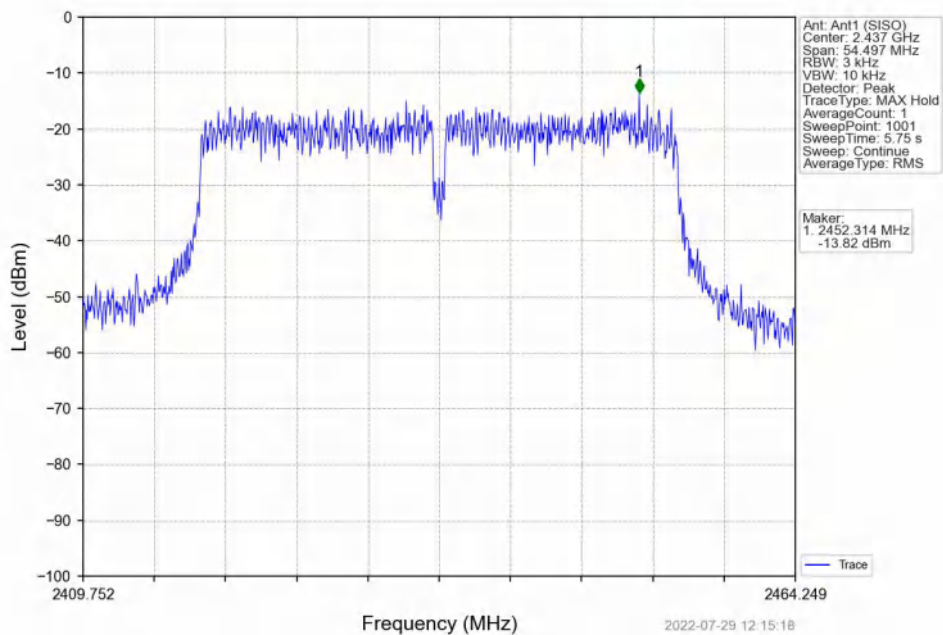
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



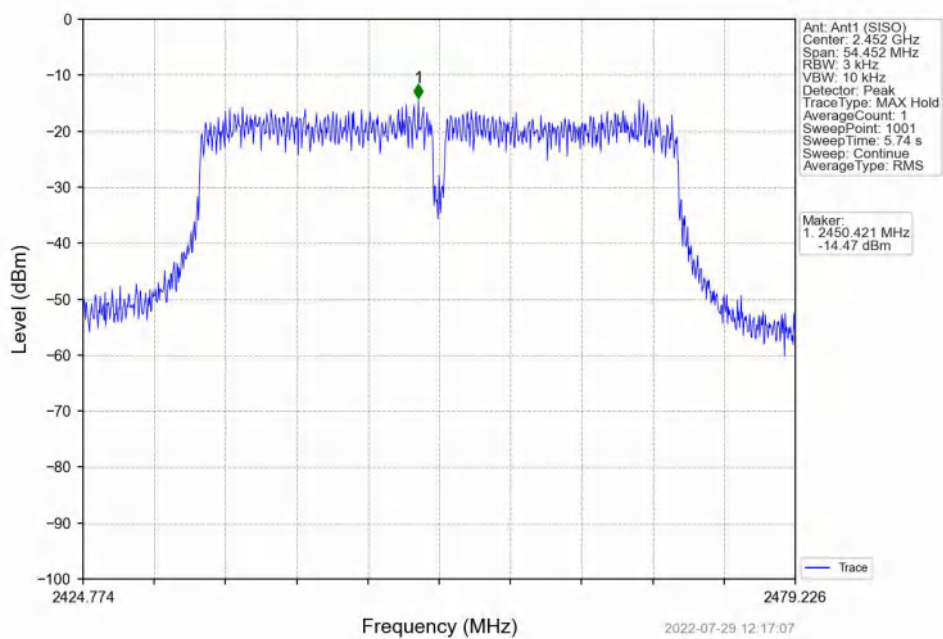
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions InStandard Non-restricted Frequency Bands

5.1 Ref

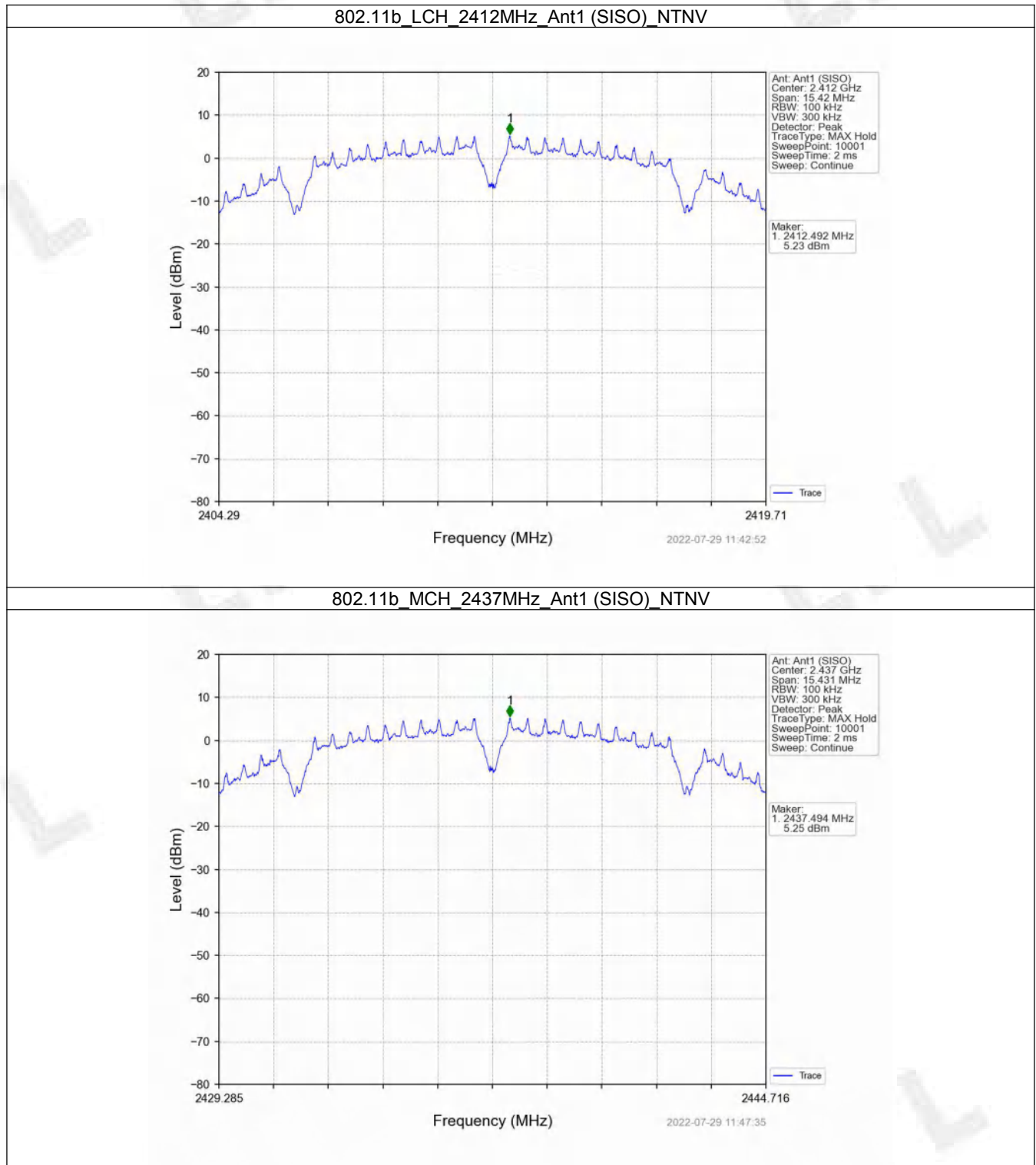
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	5.23
		2437	1	5.25
		2462	1	4.91
802.11g	SISO	2412	1	3.70
		2437	1	3.90
		2462	1	3.67
802.11n (HT20)	SISO	2412	1	3.64
		2437	1	3.82
		2462	1	3.31
802.11n (HT40)	SISO	2422	1	0.38
		2437	1	0.42
		2452	1	0.53

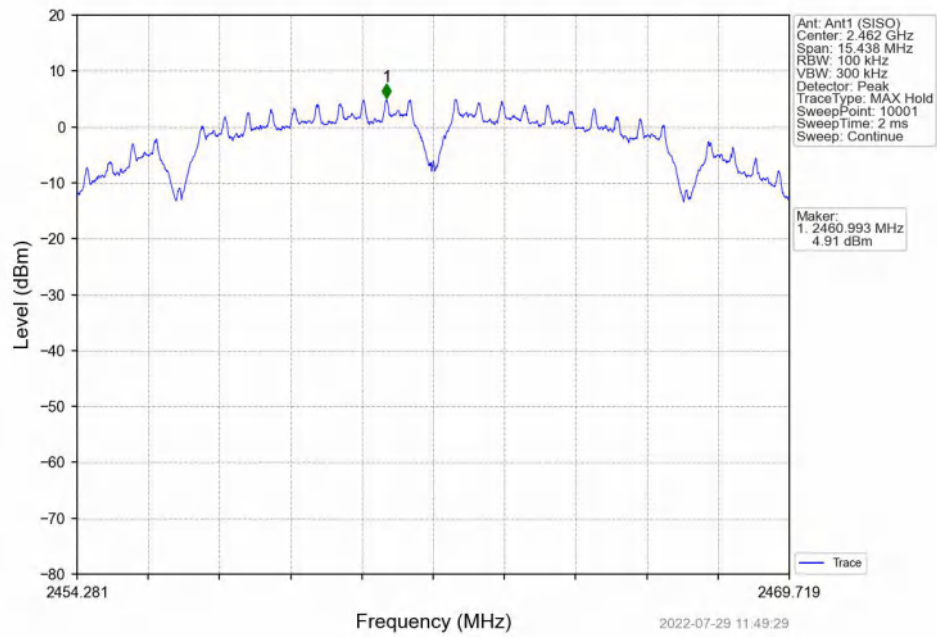
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

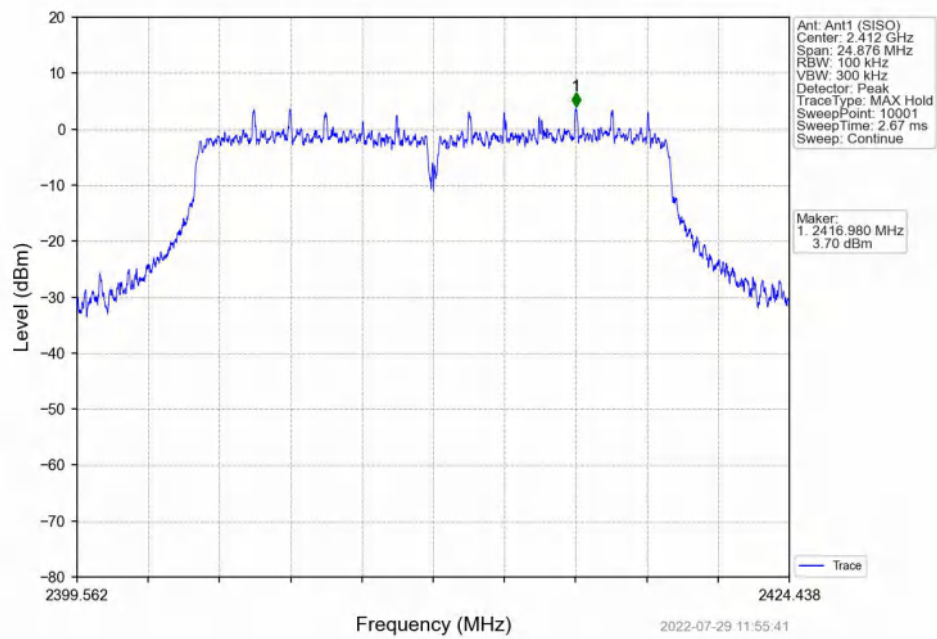
5.1.2 Test Graph



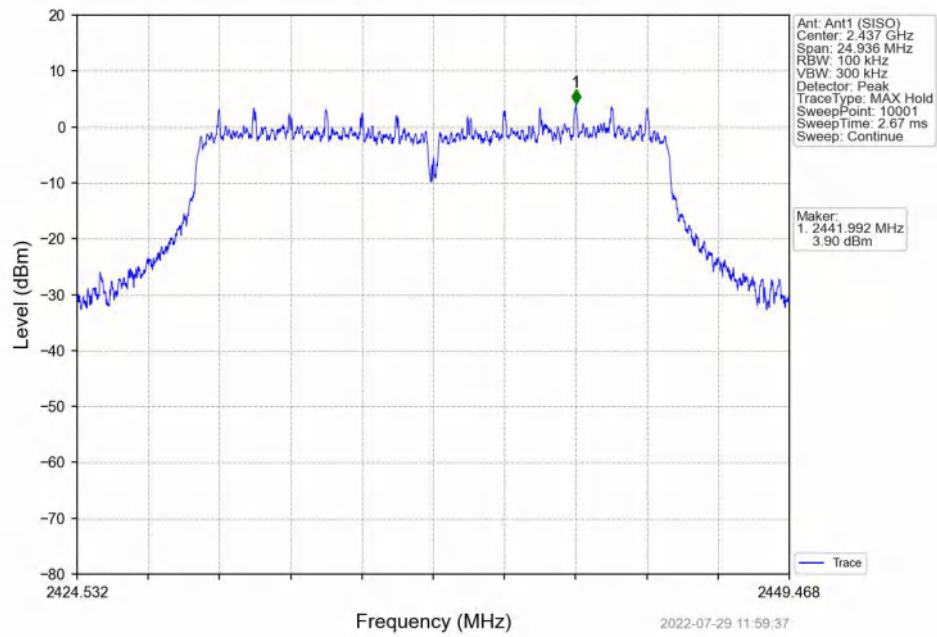
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



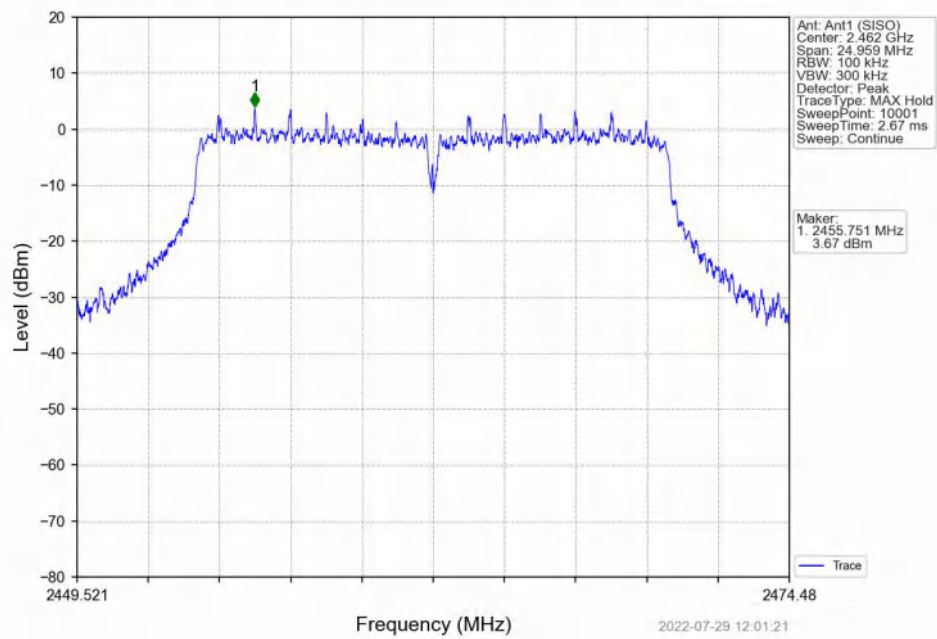
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



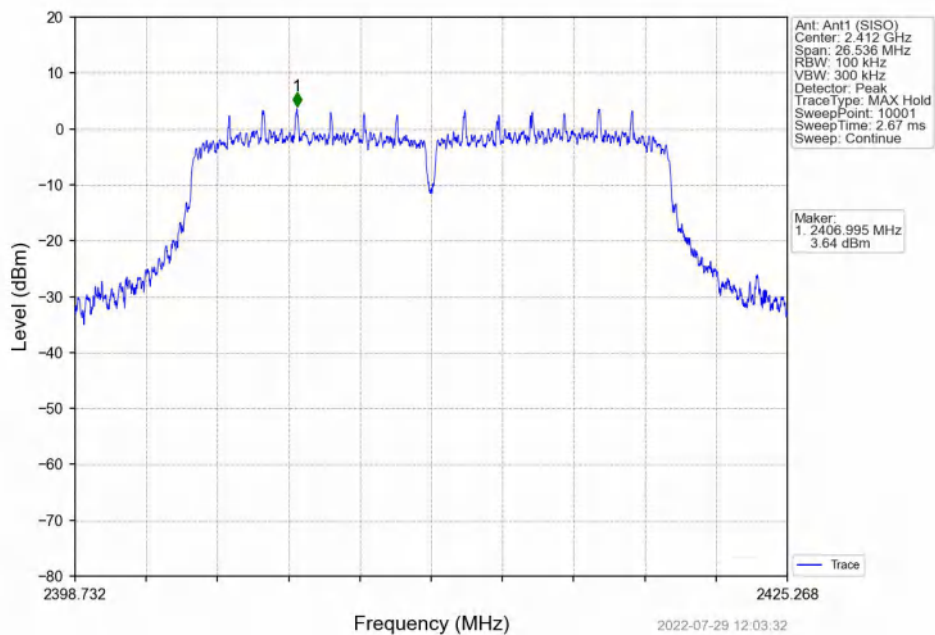
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



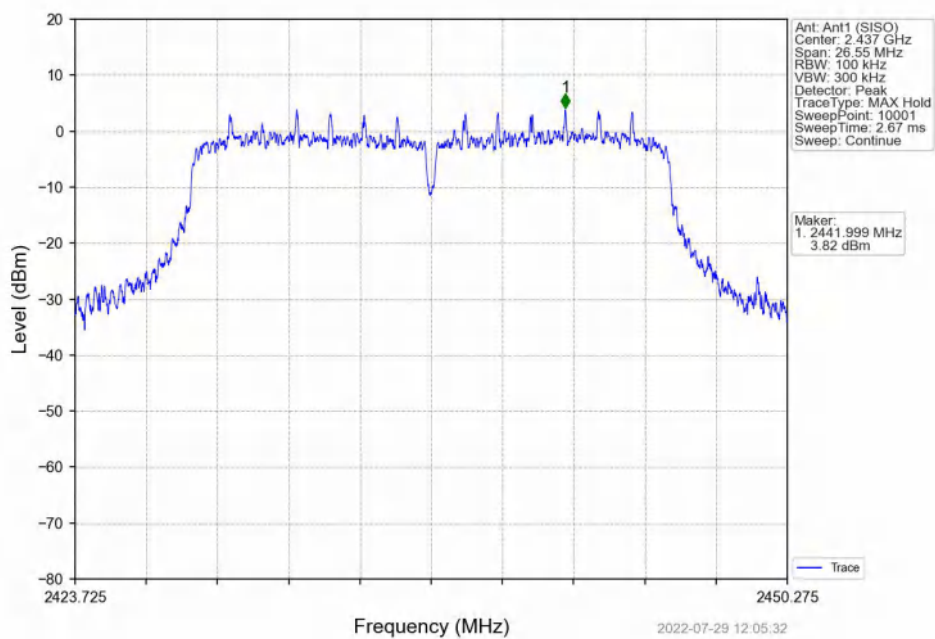
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



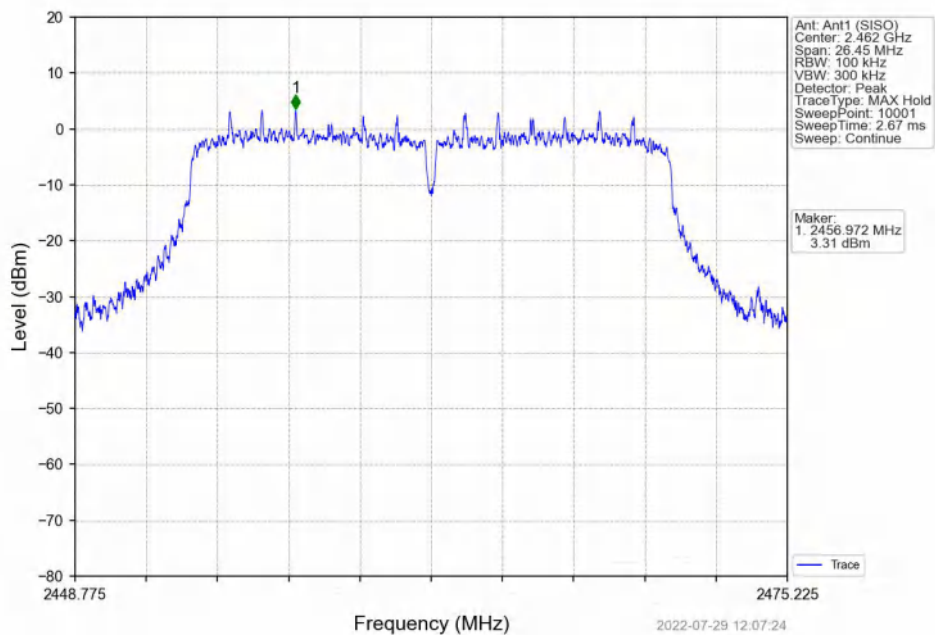
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



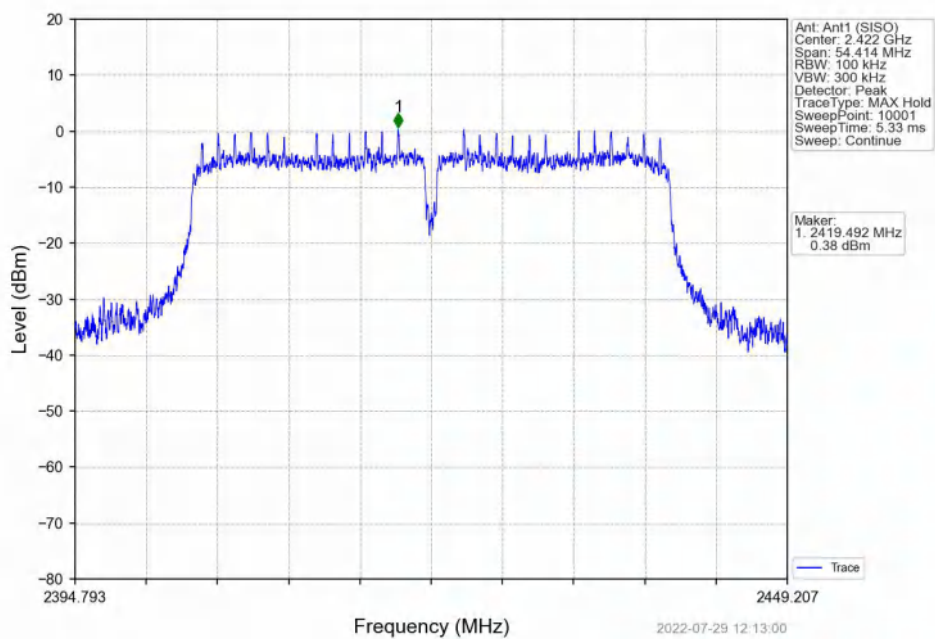
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



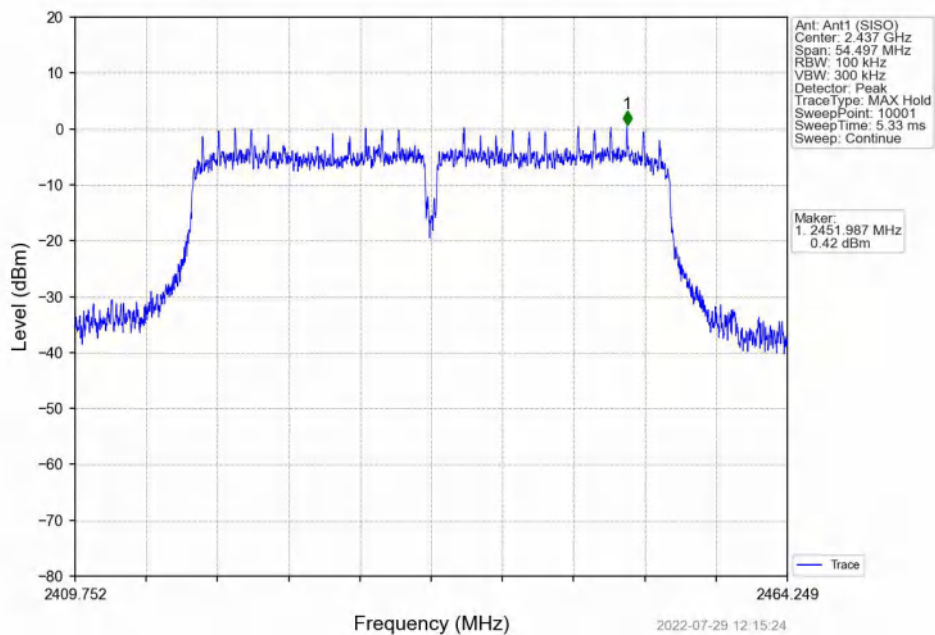
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



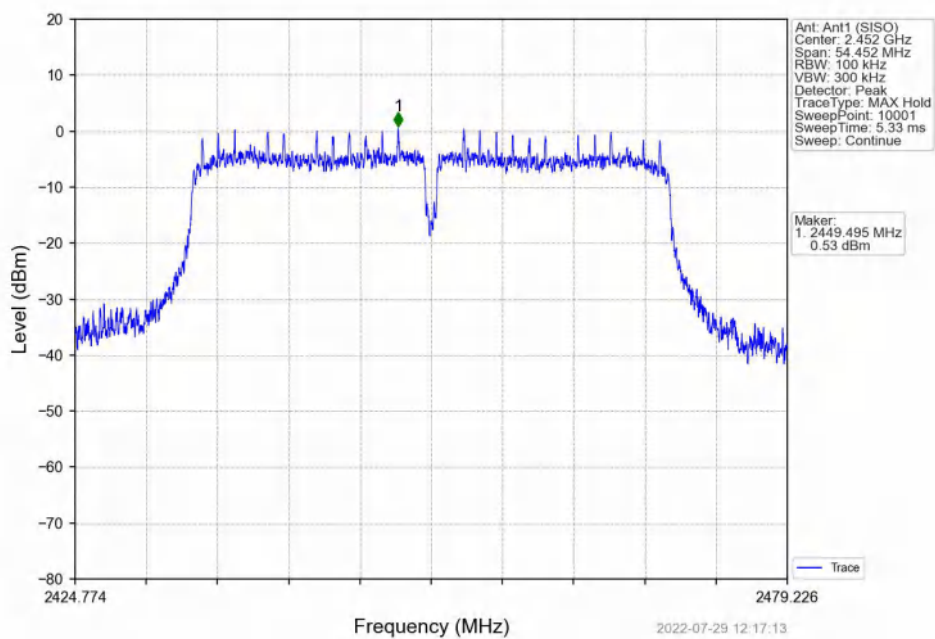
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5.2 CSE

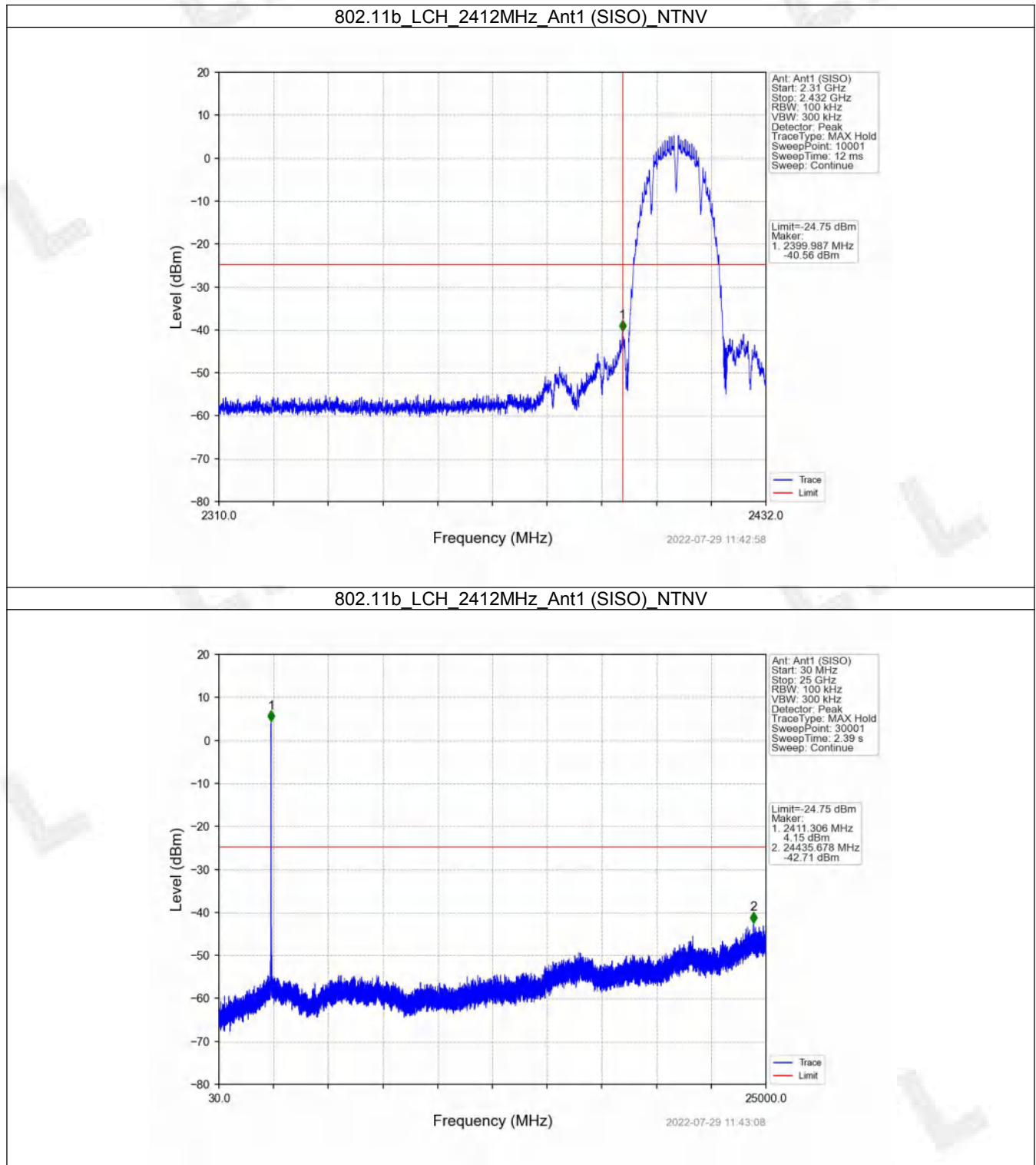
5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.25	-24.75	Pass
		2437	1	5.25	-24.75	Pass
		2462	1	5.25	-24.75	Pass
802.11g	SISO	2412	1	3.90	-26.10	Pass
		2437	1	3.90	-26.10	Pass
		2462	1	3.90	-26.10	Pass
802.11n (HT20)	SISO	2412	1	3.82	-26.18	Pass
		2437	1	3.82	-26.18	Pass
		2462	1	3.82	-26.18	Pass
802.11n (HT40)	SISO	2422	1	0.53	-29.47	Pass
		2437	1	0.53	-29.47	Pass
		2452	1	0.53	-29.47	Pass

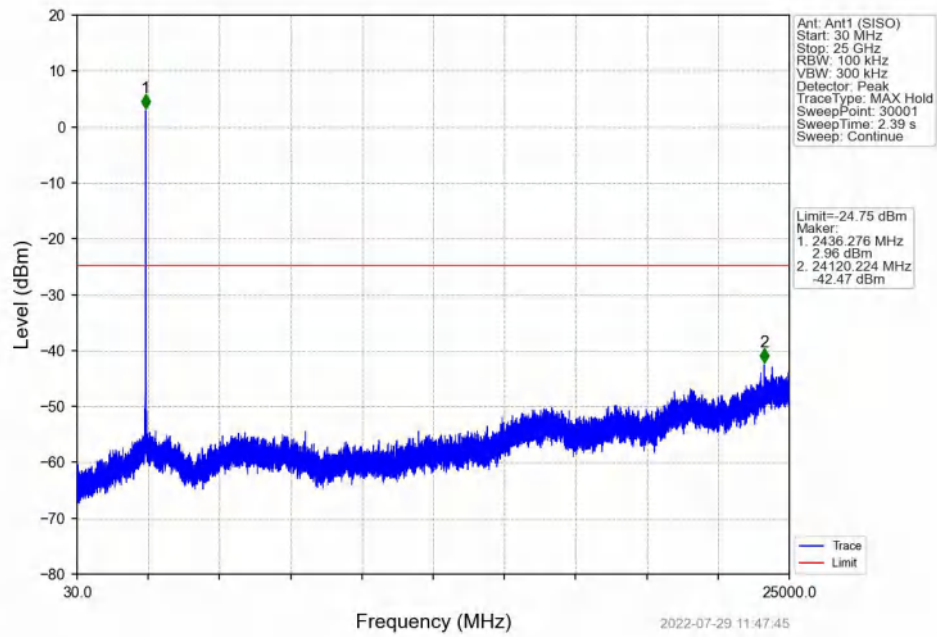
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

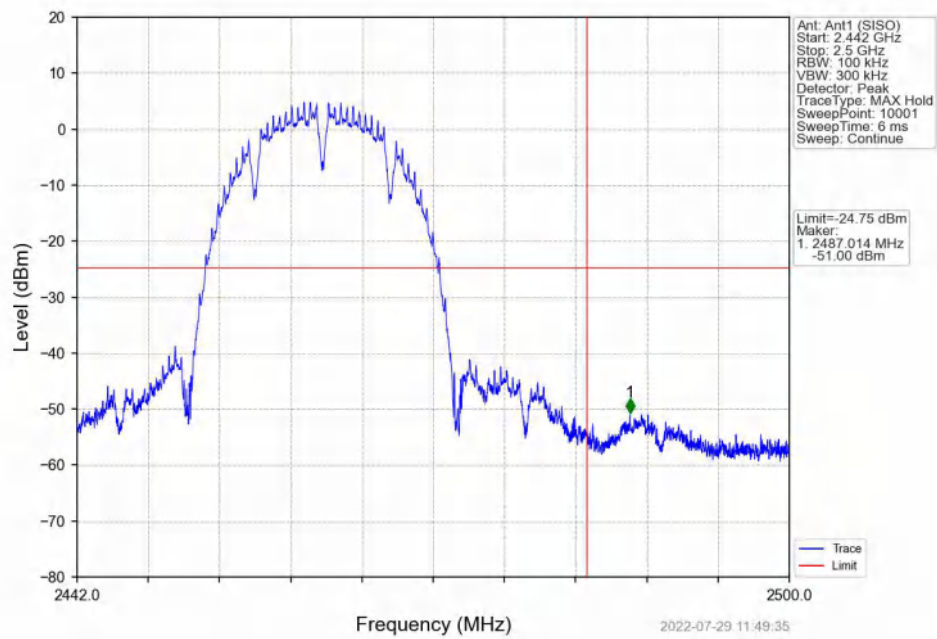
5.2.2 Test Graph



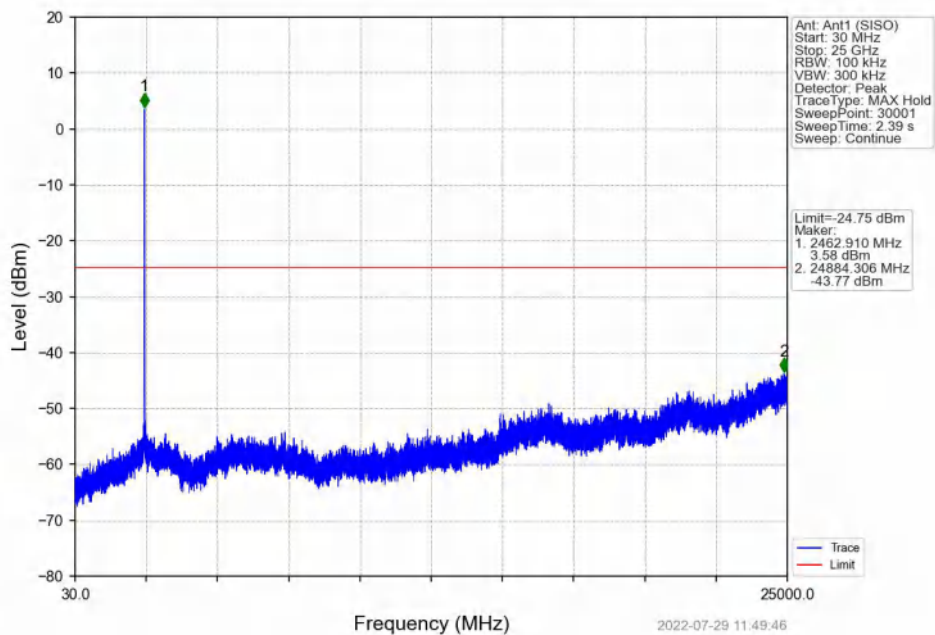
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



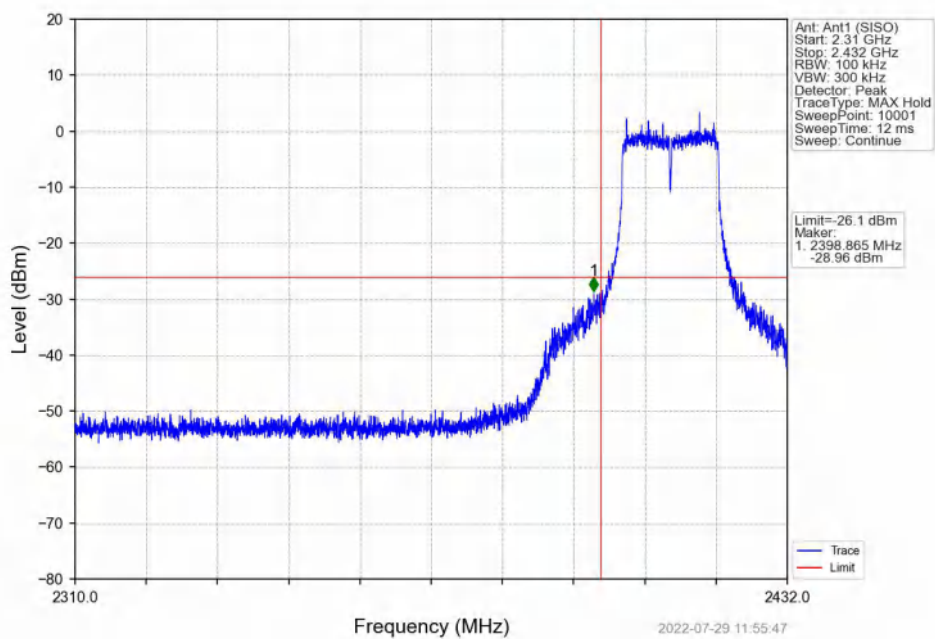
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



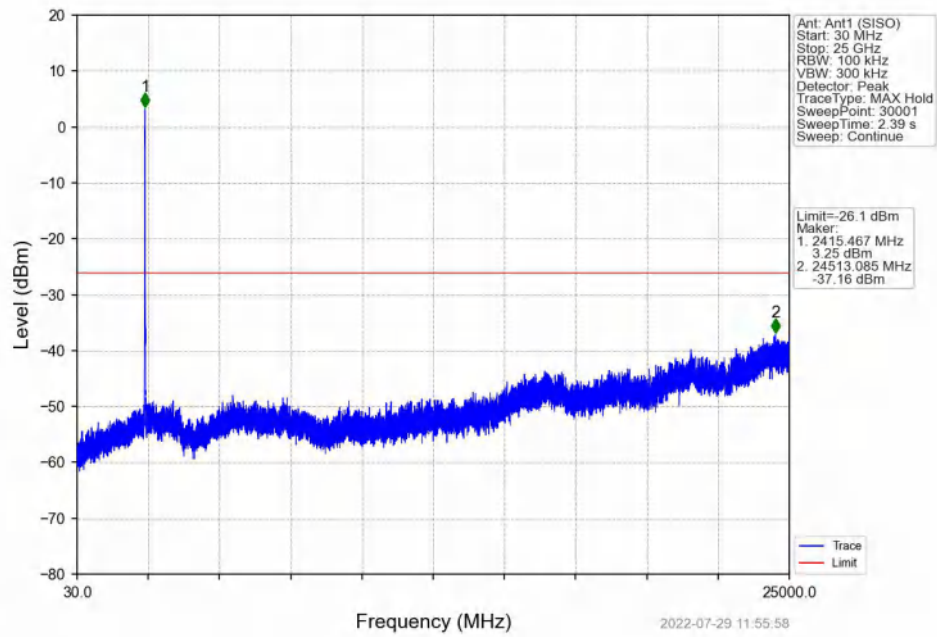
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



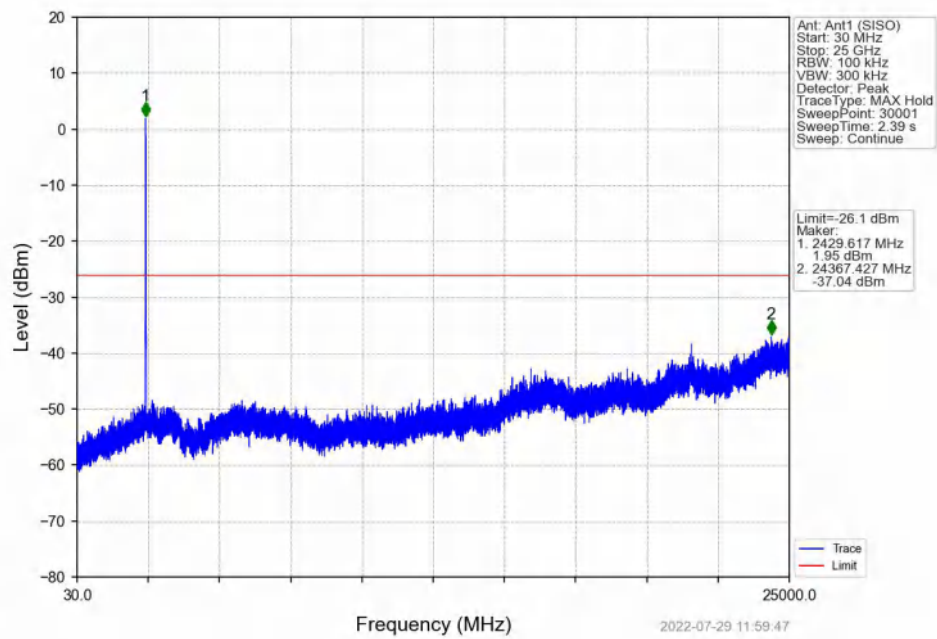
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



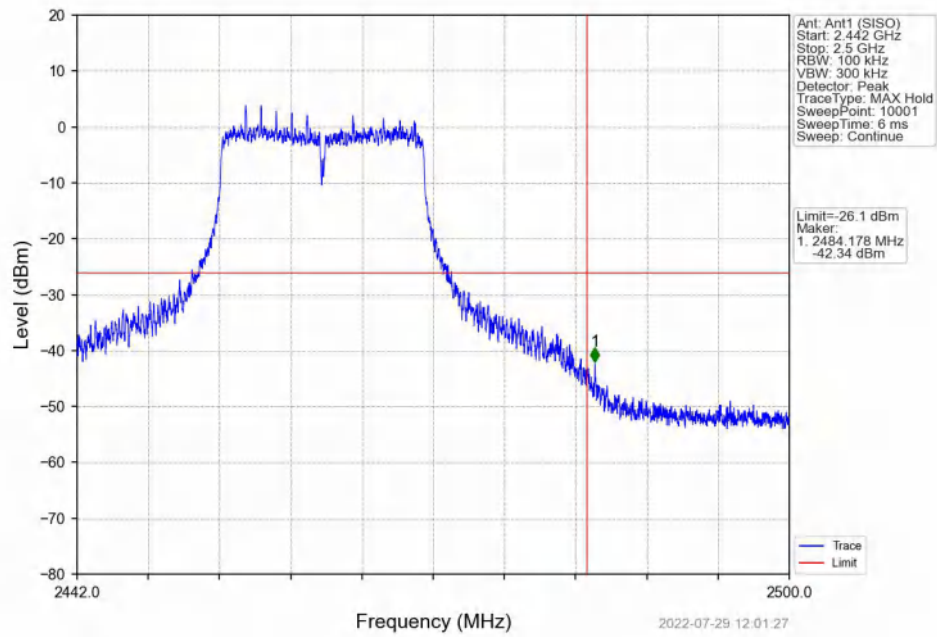
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



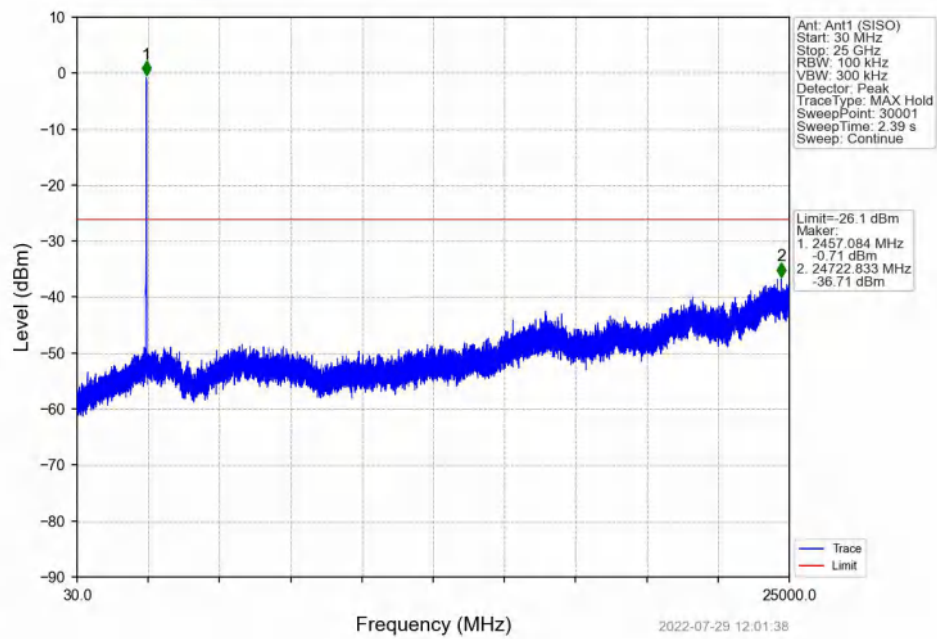
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



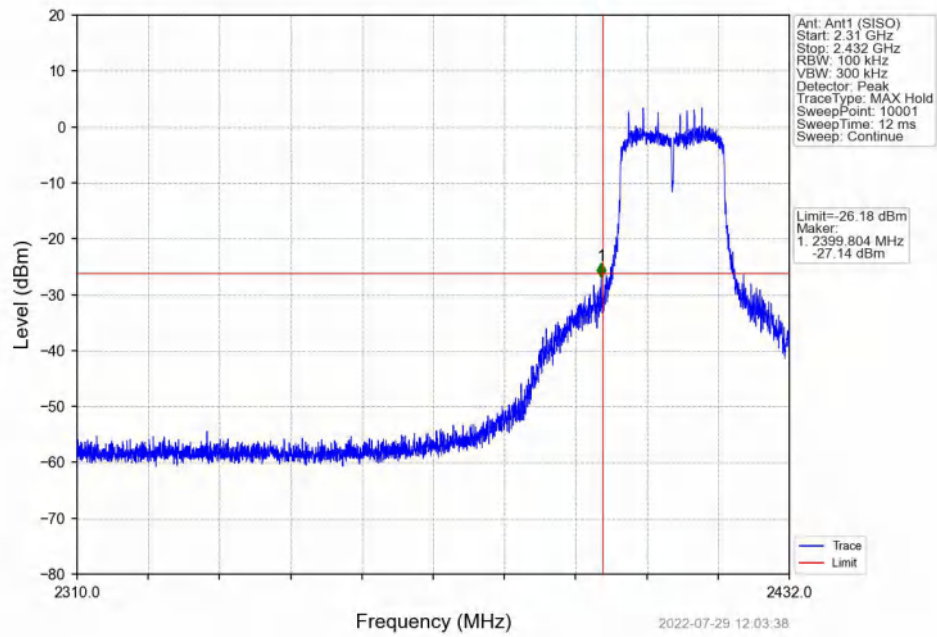
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



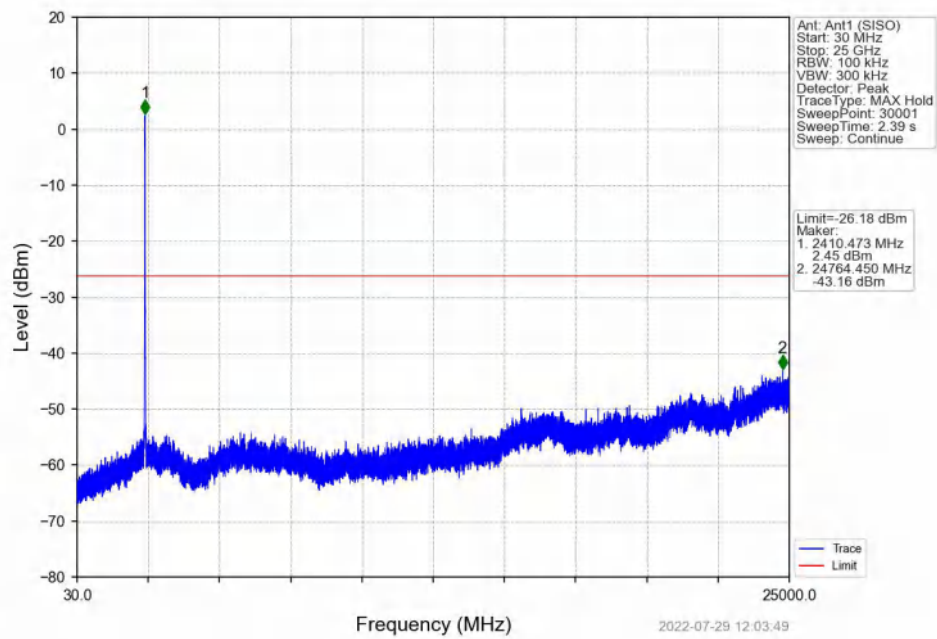
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



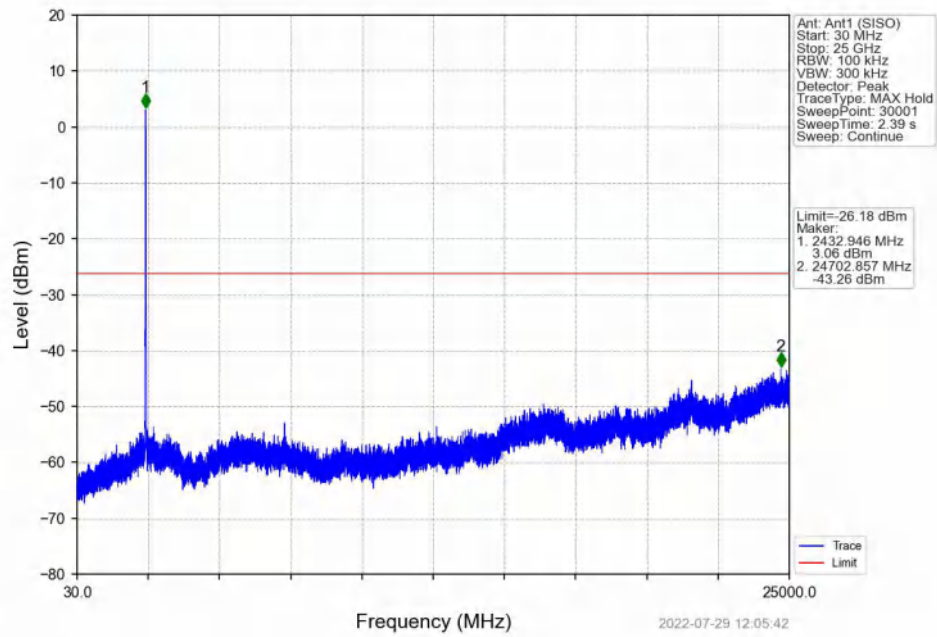
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



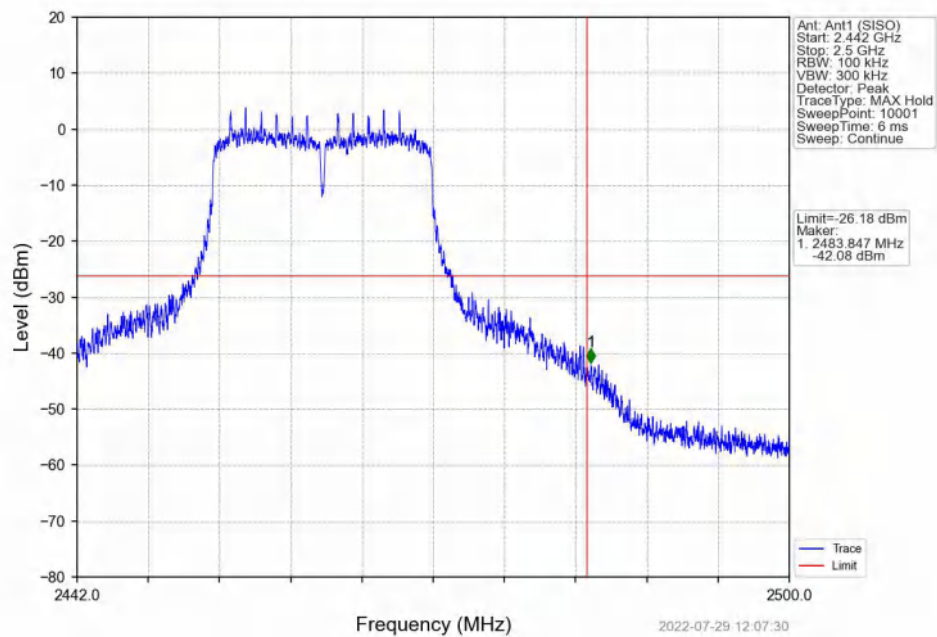
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



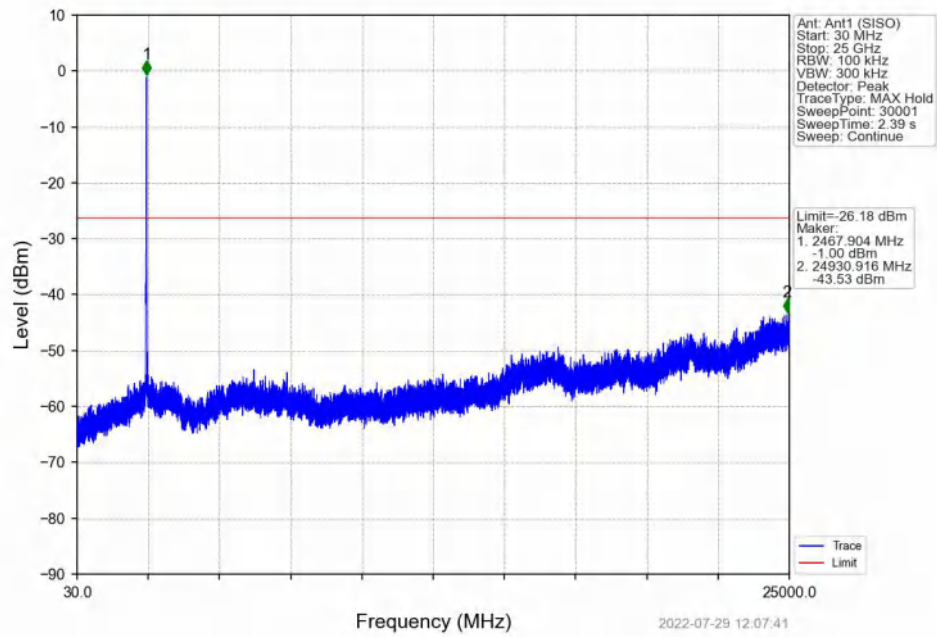
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



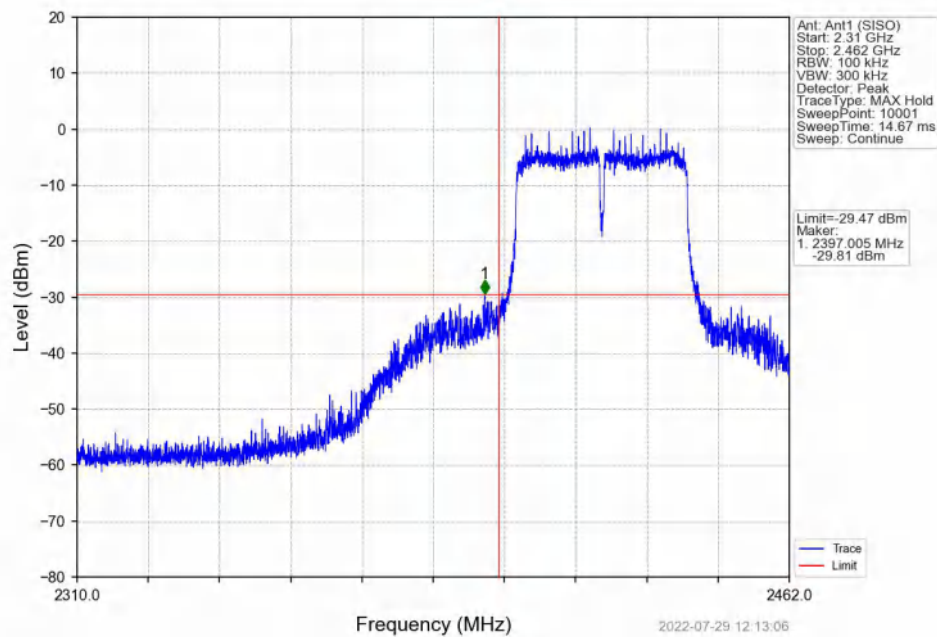
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



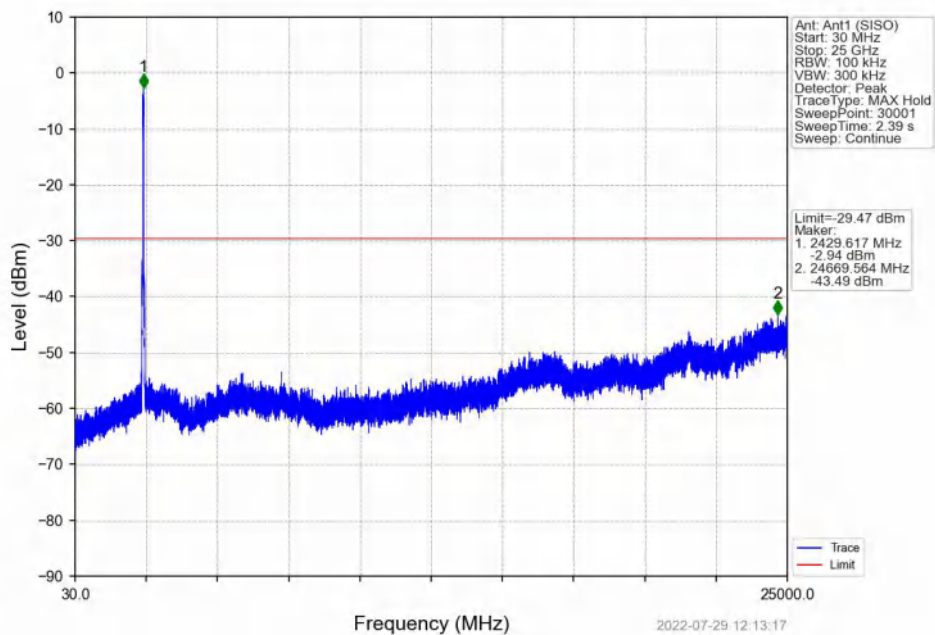
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



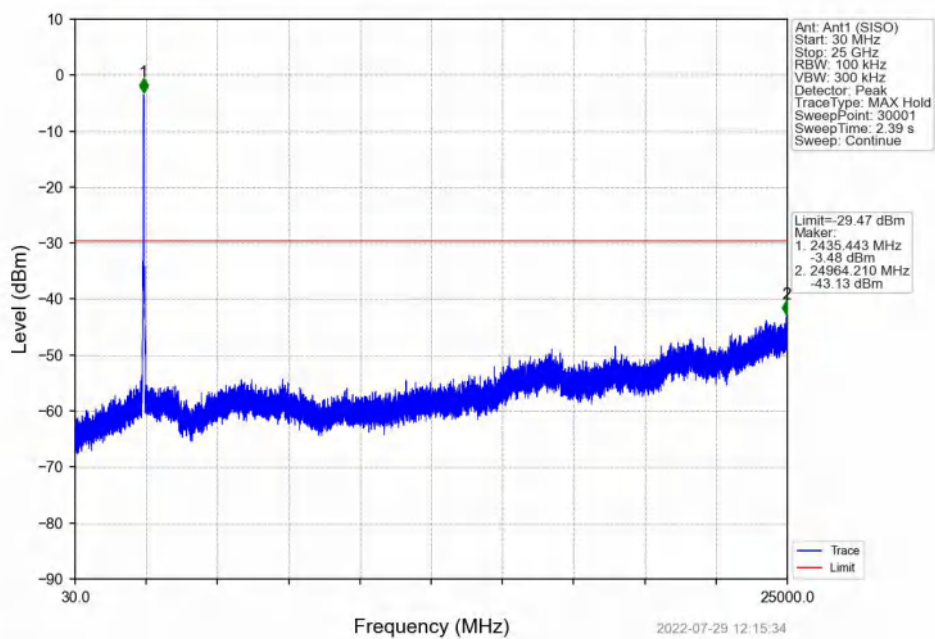
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



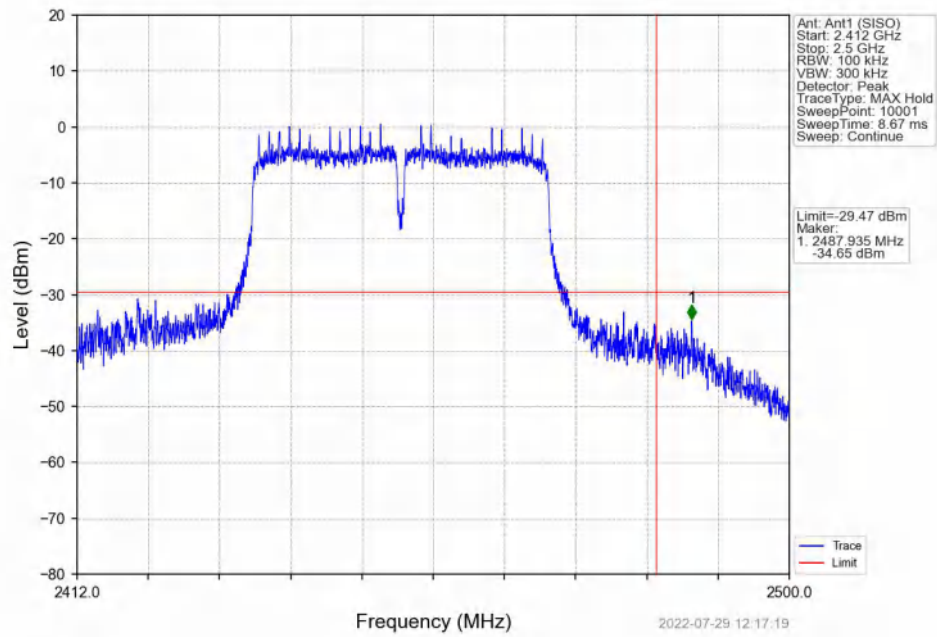
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

