

1. Duty Cycle

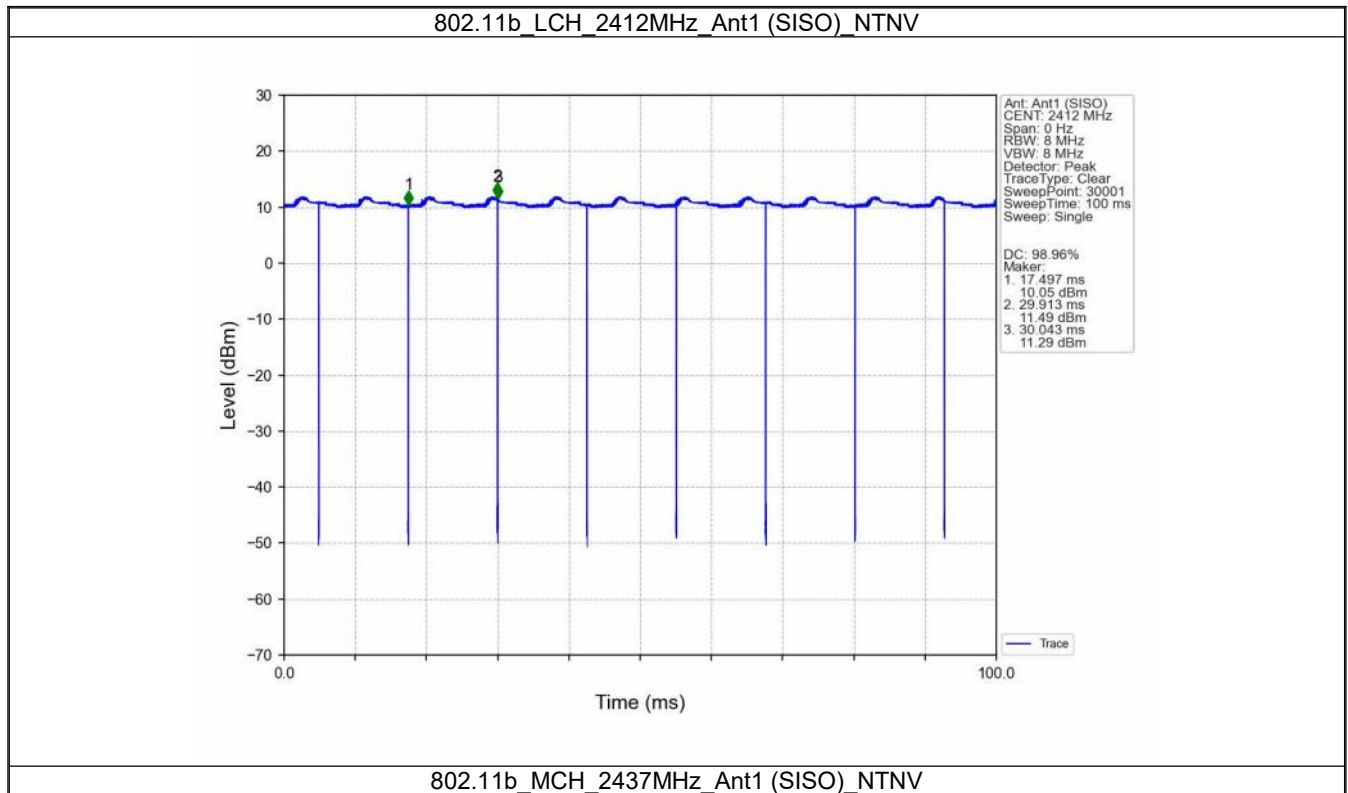
1.1 Test Result

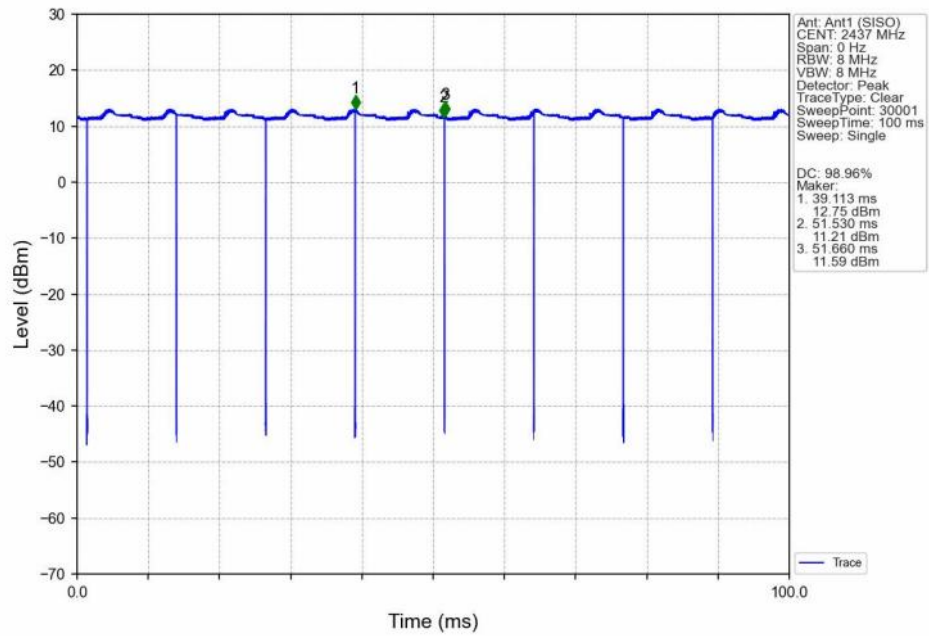
1.1.1 Ant1

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	12.416	12.546	98.96	0.00	0.03
		2437	12.417	12.547	98.96	0.00	0.03
		2462	12.417	12.547	98.96	0.00	0.03
802.11g	SISO	2412	2.066	2.195	94.12	0.26	0.03
		2437	2.064	2.193	94.12	0.26	0.03
		2462	2.065	2.195	94.08	0.27	0.04
802.11n (HT20)	SISO	2412	1.921	2.050	93.71	0.28	0.00
		2437	1.920	2.049	93.70	0.28	0.04
		2462	1.921	2.050	93.71	0.28	0.00
802.11n (HT40)	SISO	2422	0.649	0.683	95.02	0.22	0.07
		2437	0.648	0.683	94.88	0.23	0.03
		2452	0.650	0.683	95.17	0.22	0.00

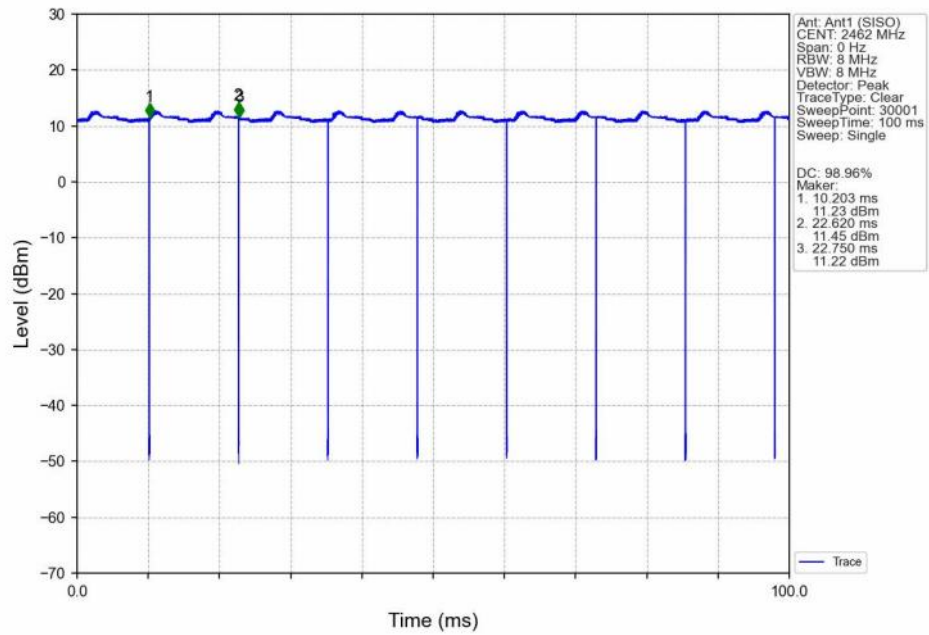
1.2 Test Graph

1.2.1 Ant1

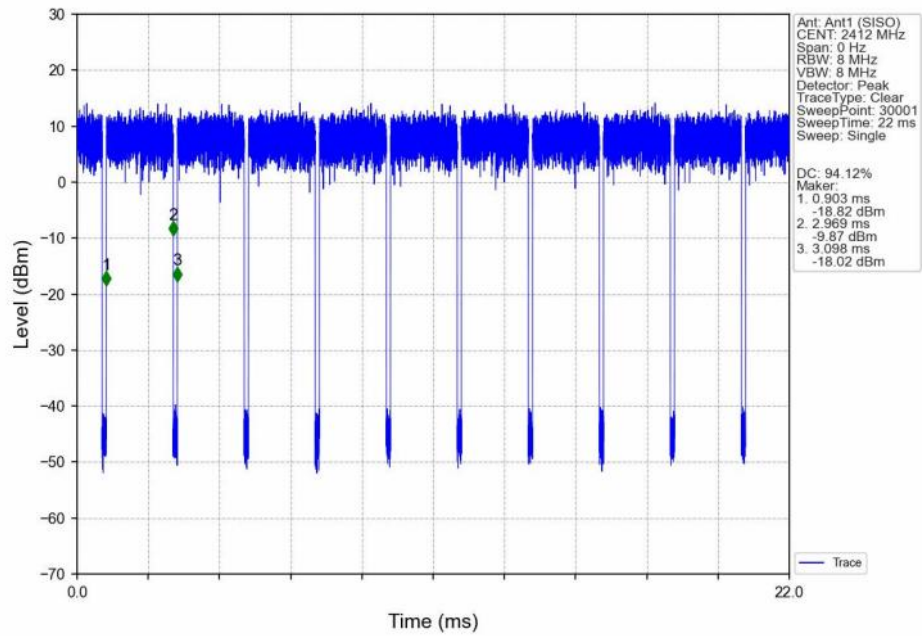




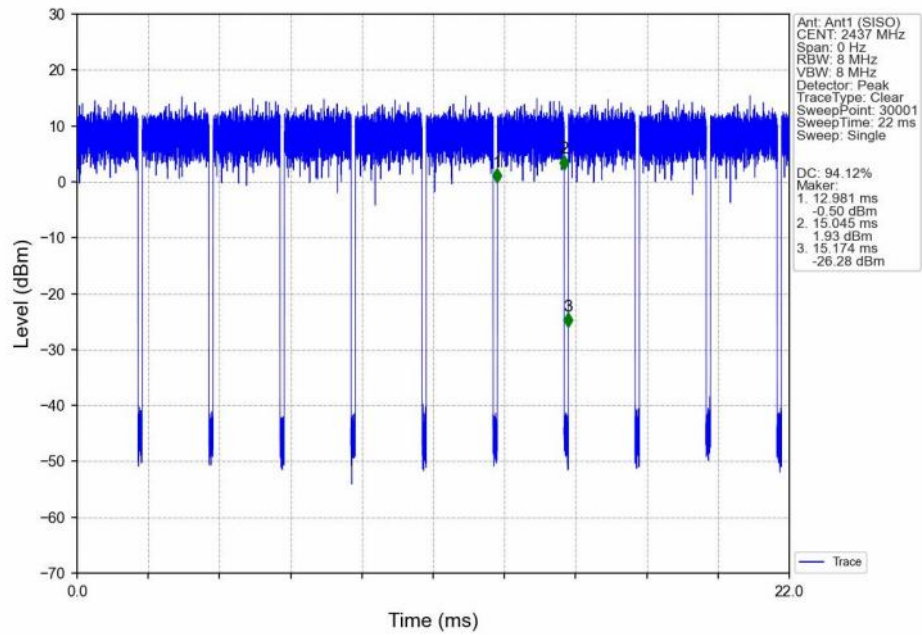
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



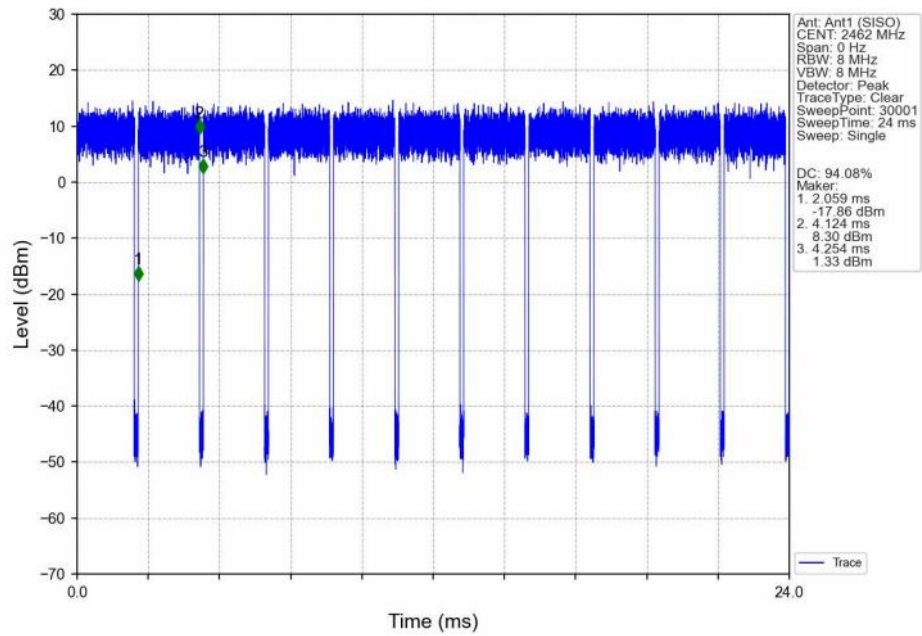
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



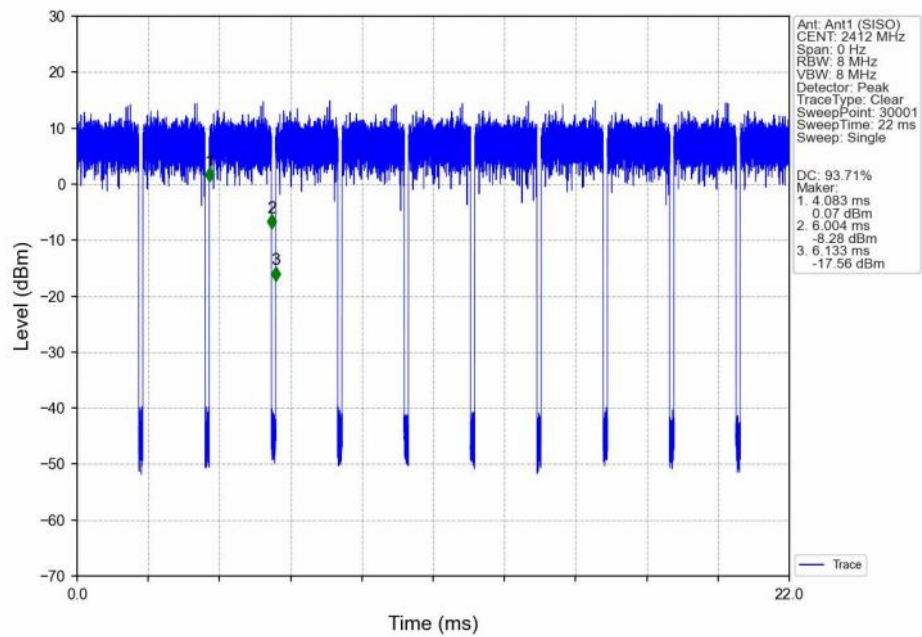
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



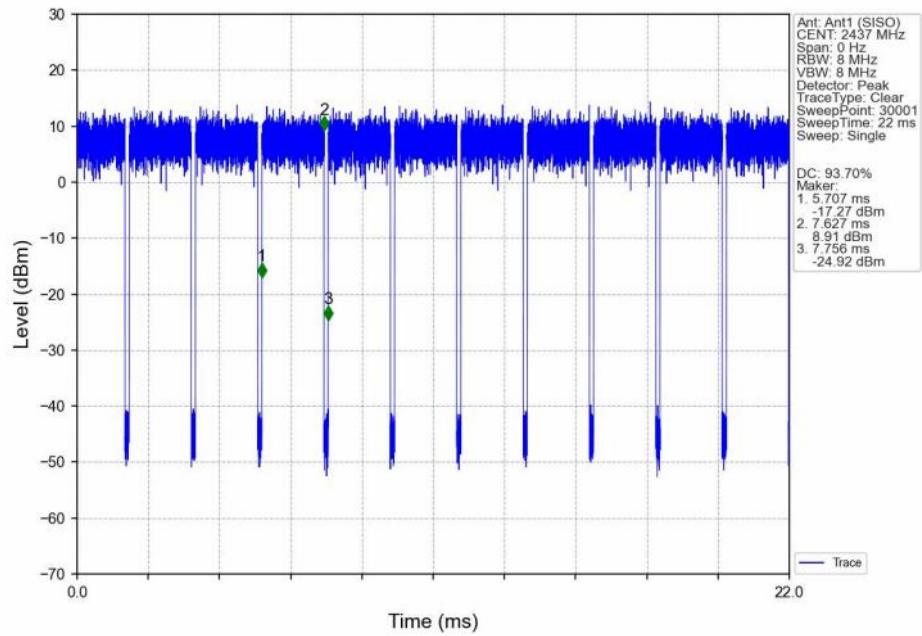
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



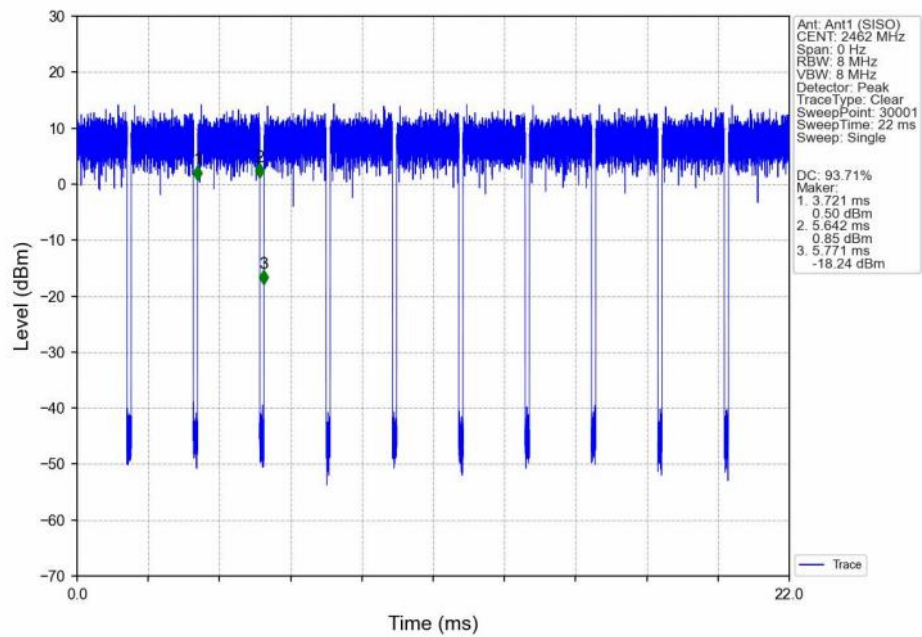
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



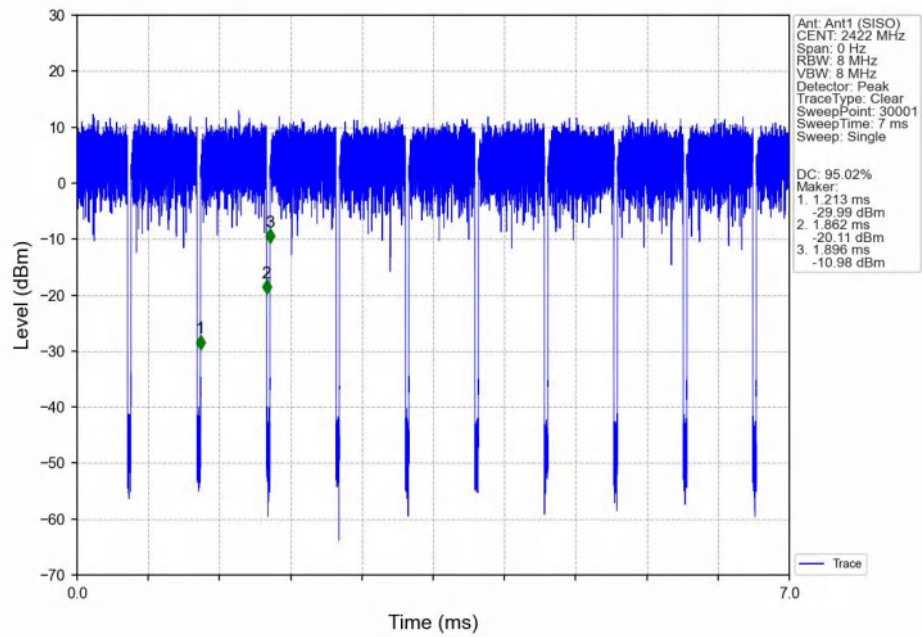
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



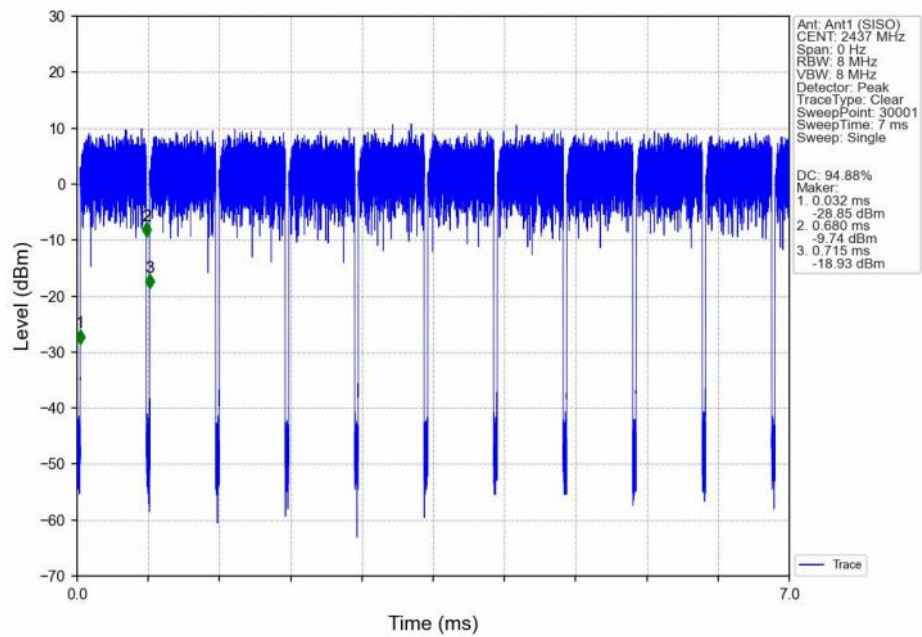
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



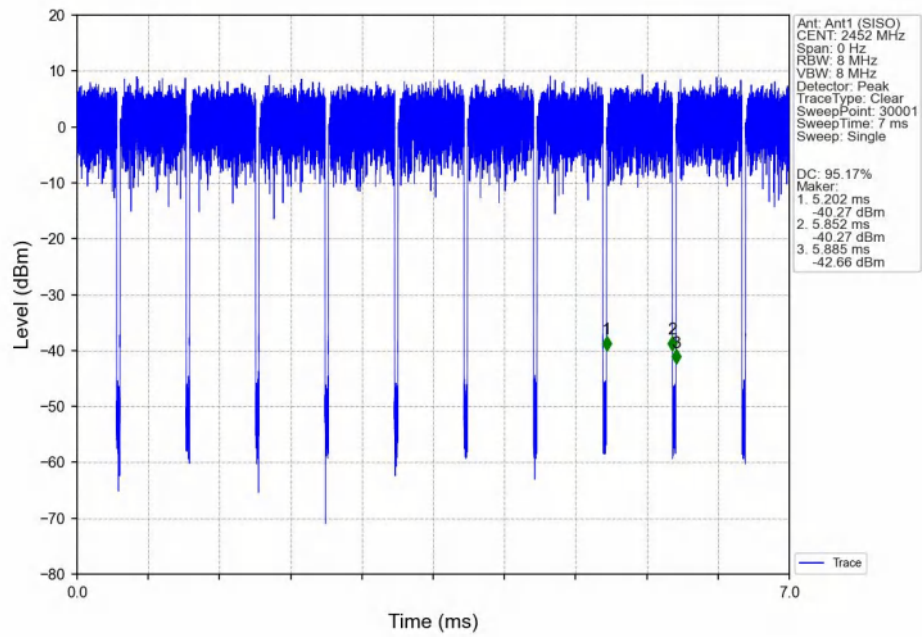
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. -6 dB Bandwidth and 99% Bandwidth Measurement

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	14.108	/	Pass
		2437	1	14.092	/	Pass
		2462	1	14.116	/	Pass
802.11g	SISO	2412	1	17.825	/	Pass
		2437	1	17.785	/	Pass
		2462	1	18.033	/	Pass
802.11n (HT20)	SISO	2412	1	18.756	/	Pass
		2437	1	18.780	/	Pass
		2462	1	18.715	/	Pass
802.11n (HT40)	SISO	2422	1	36.327	/	Pass
		2437	1	36.575	/	Pass
		2452	1	36.529	/	Pass

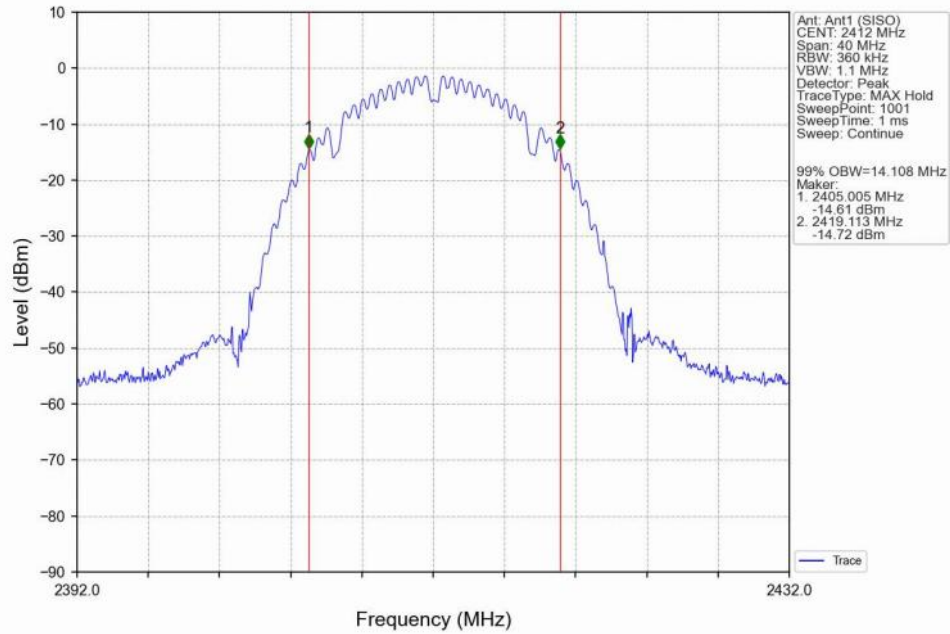
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.247	≥ 0.5	Pass
		2437	1	9.242	≥ 0.5	Pass
		2462	1	9.248	≥ 0.5	Pass
802.11g	SISO	2412	1	16.815	≥ 0.5	Pass
		2437	1	16.568	≥ 0.5	Pass
		2462	1	16.580	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.767	≥ 0.5	Pass
		2437	1	17.688	≥ 0.5	Pass
		2462	1	17.871	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.613	≥ 0.5	Pass
		2437	1	36.437	≥ 0.5	Pass
		2452	1	36.751	≥ 0.5	Pass

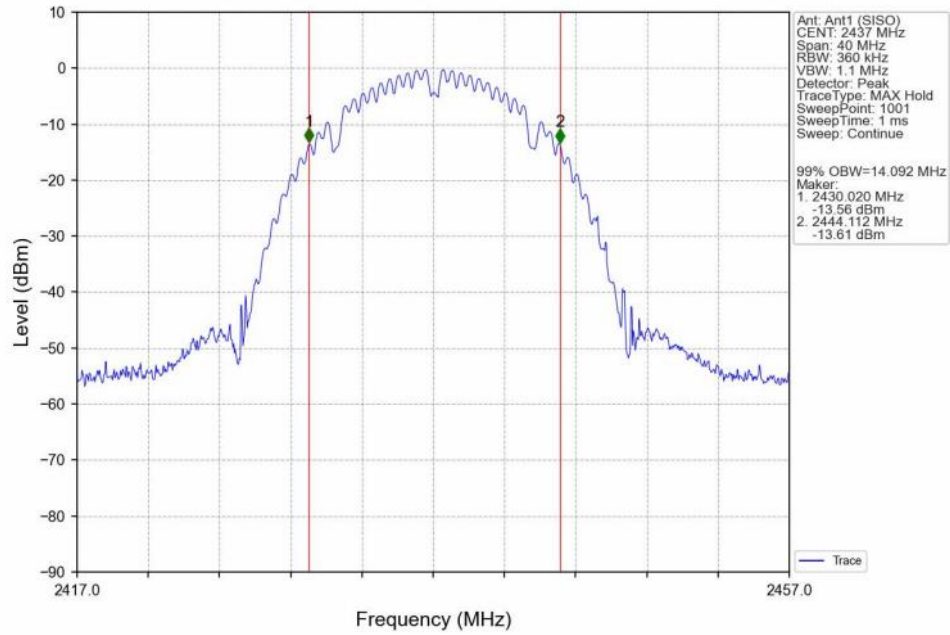
2.2 Test Graph

2.2.1 OBW

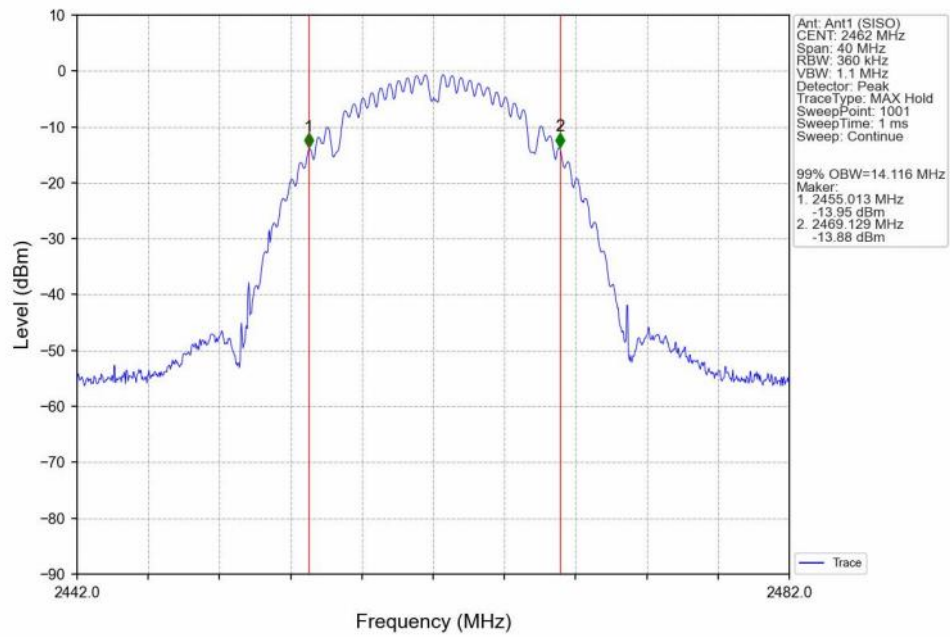
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



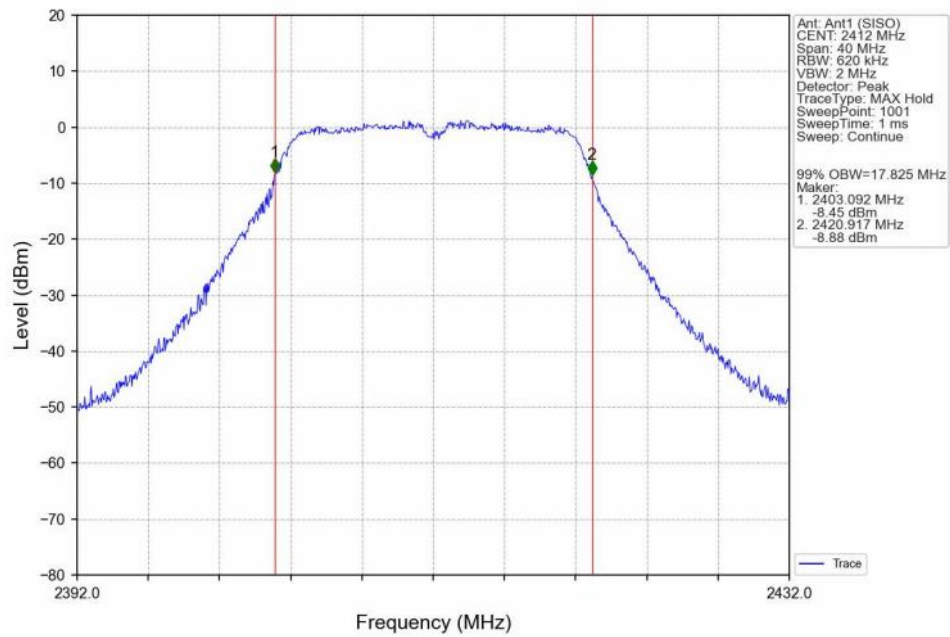
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



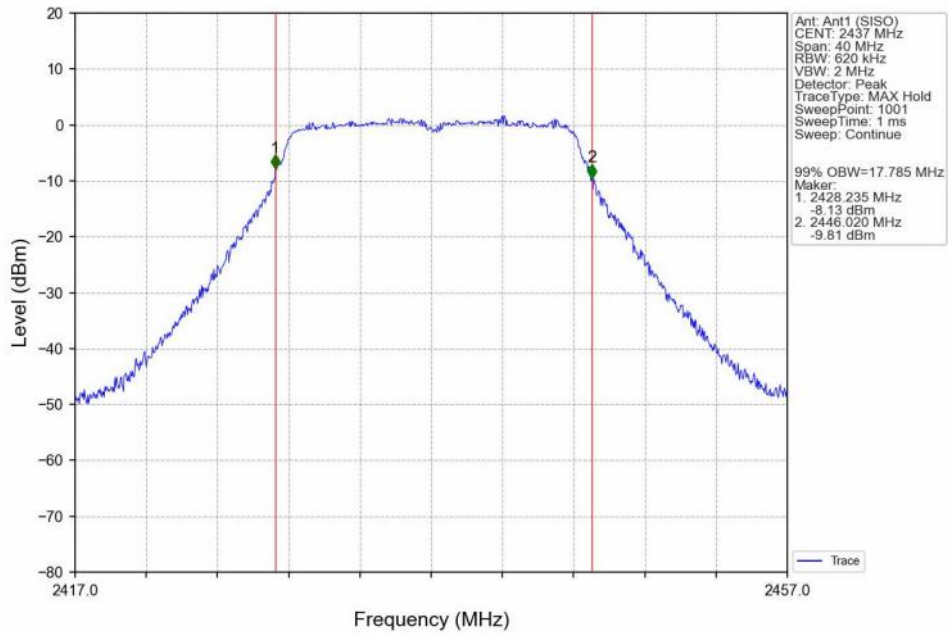
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



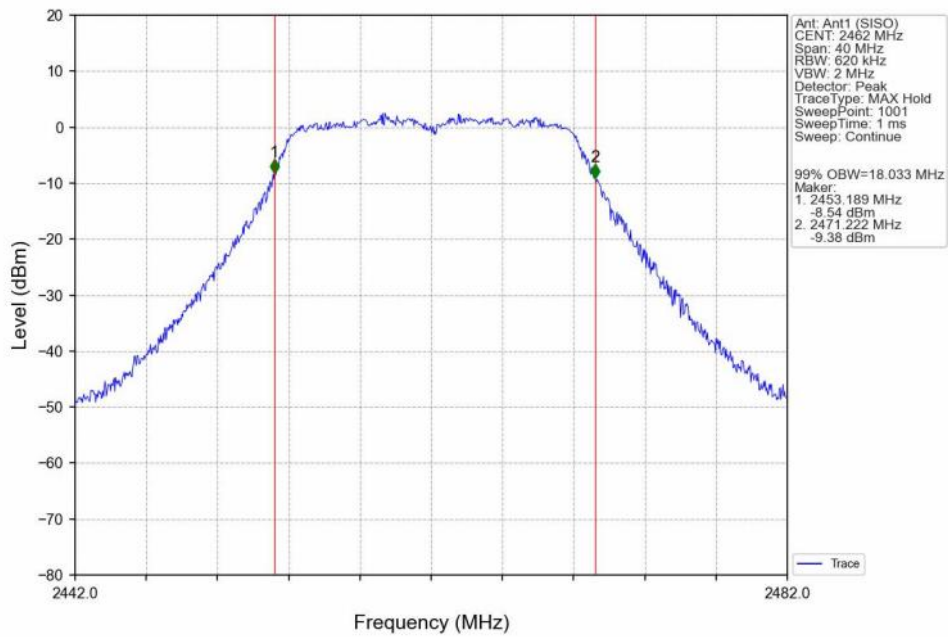
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



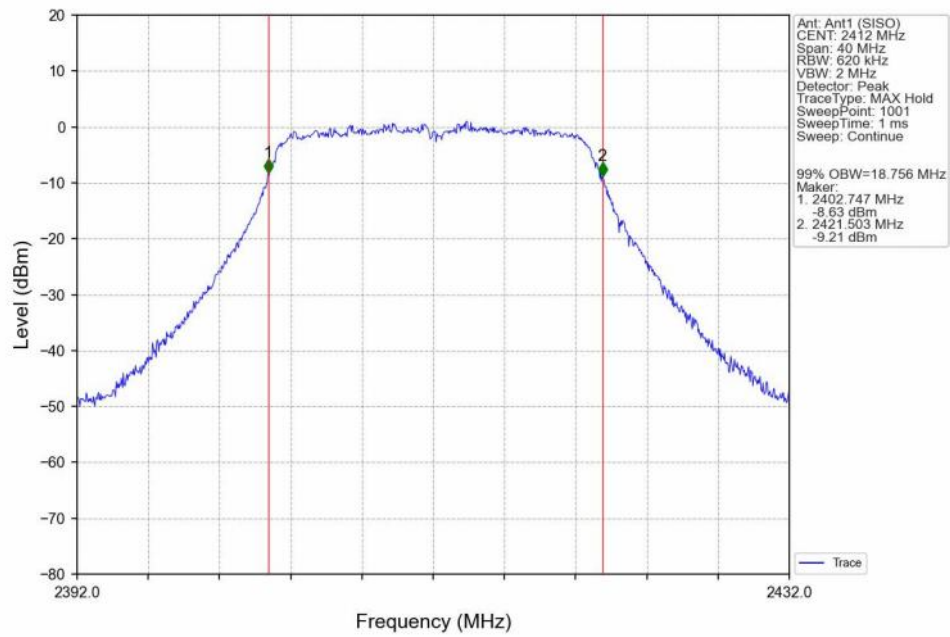
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



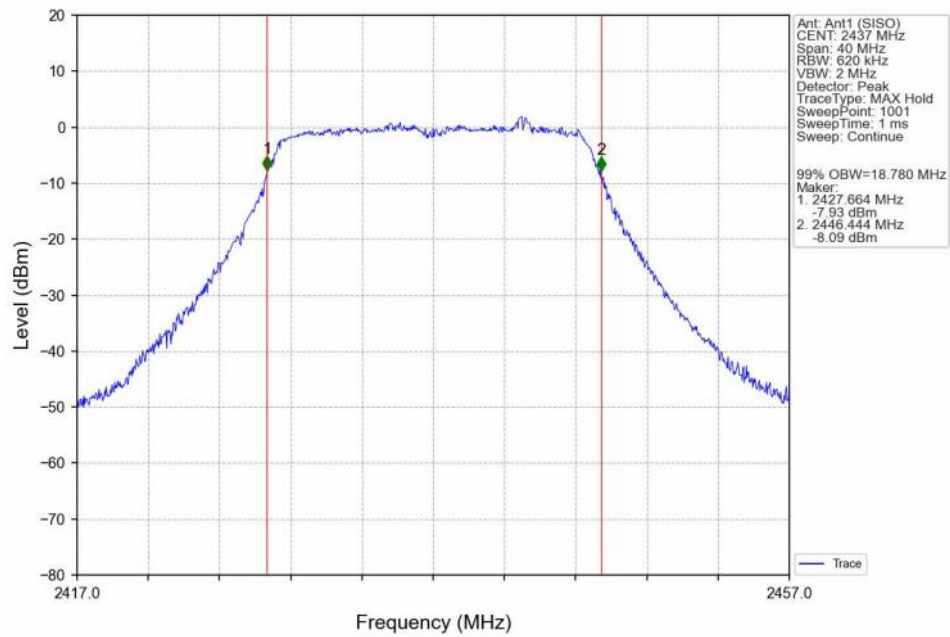
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



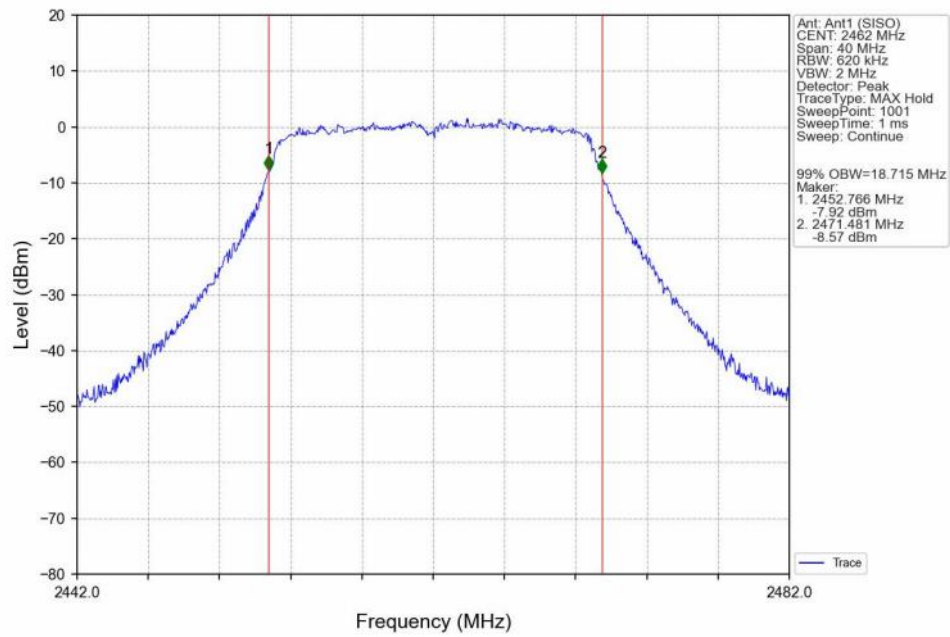
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



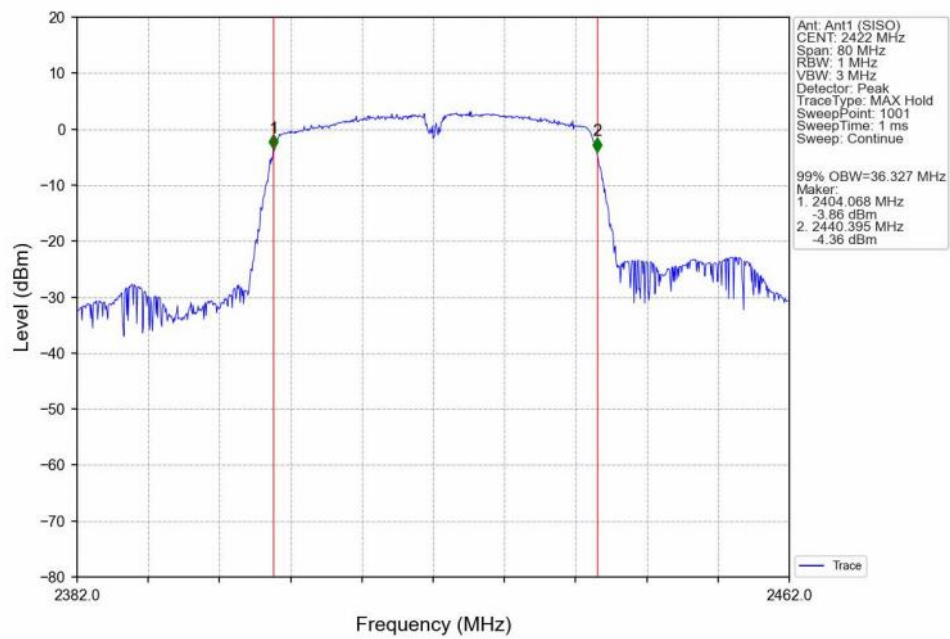
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



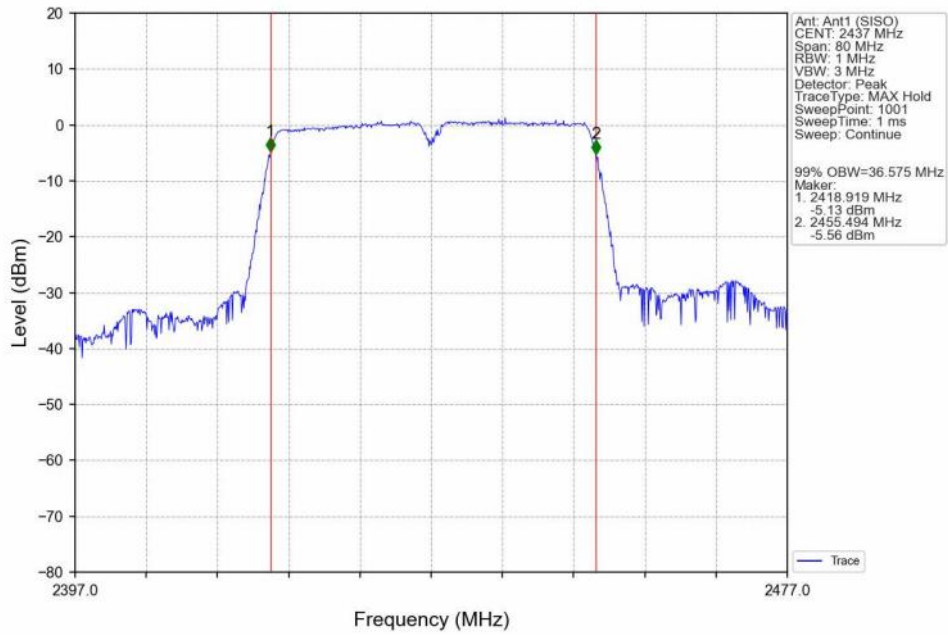
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



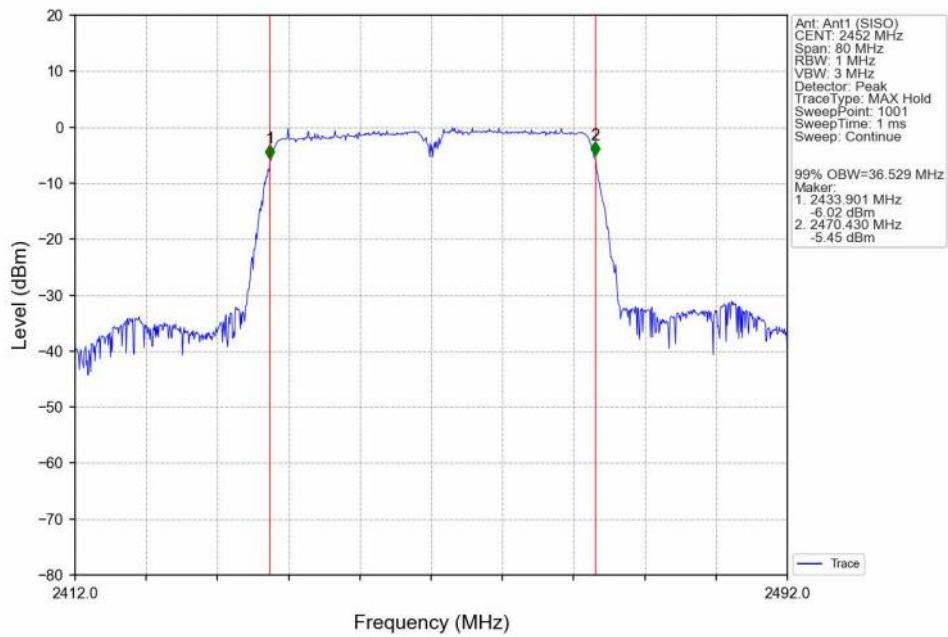
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

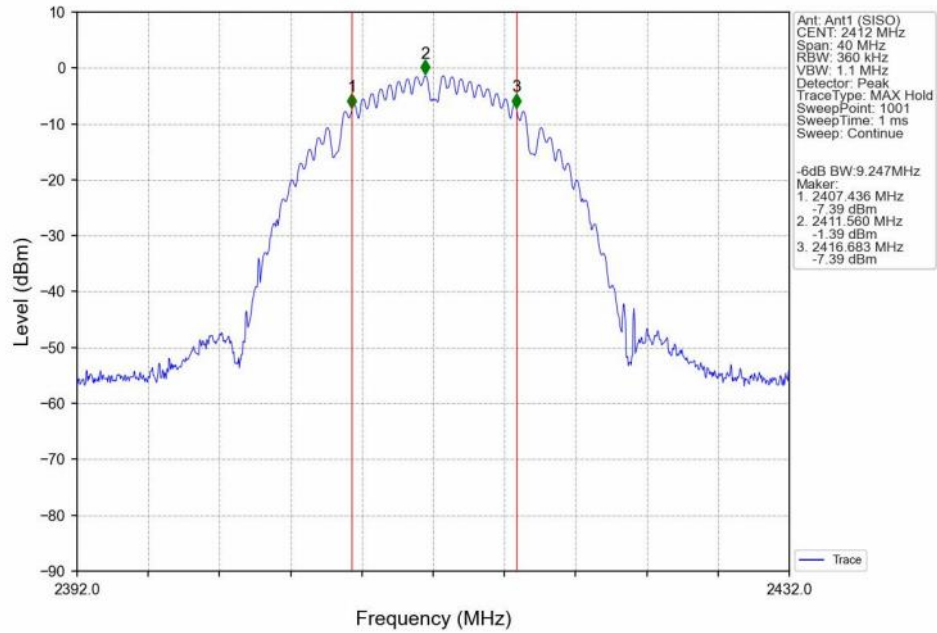


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

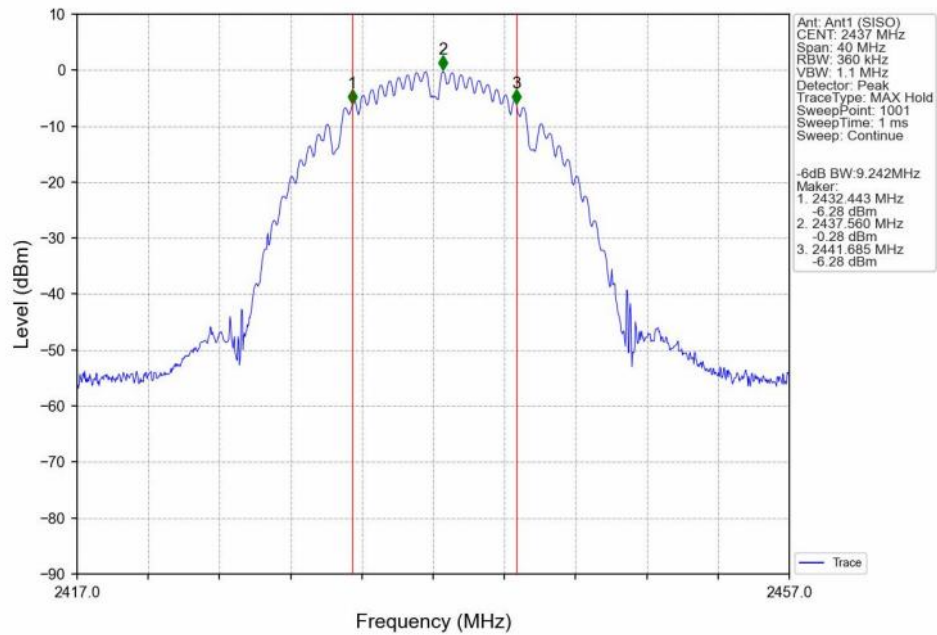


2.2.2 6dB BW

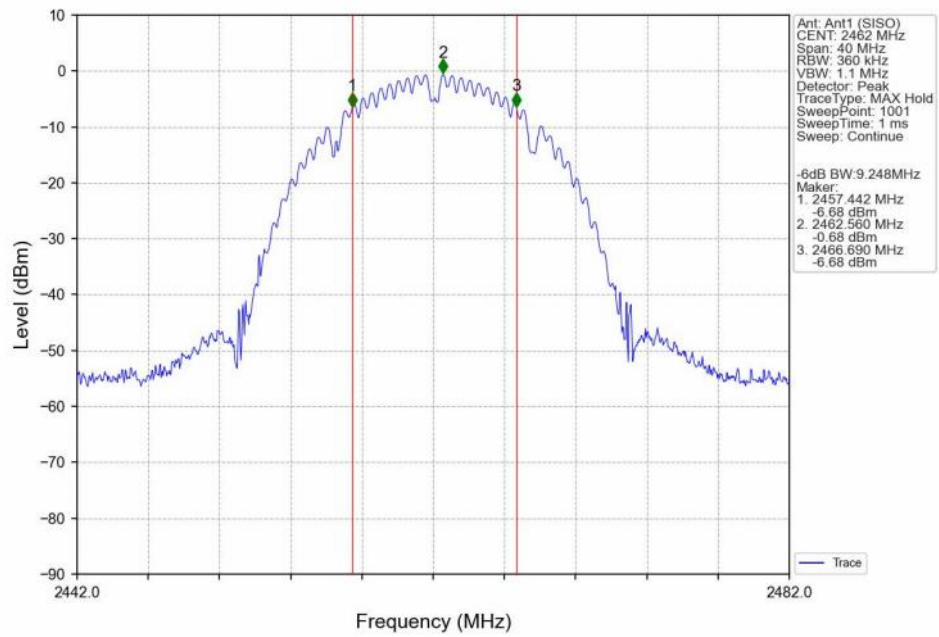
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



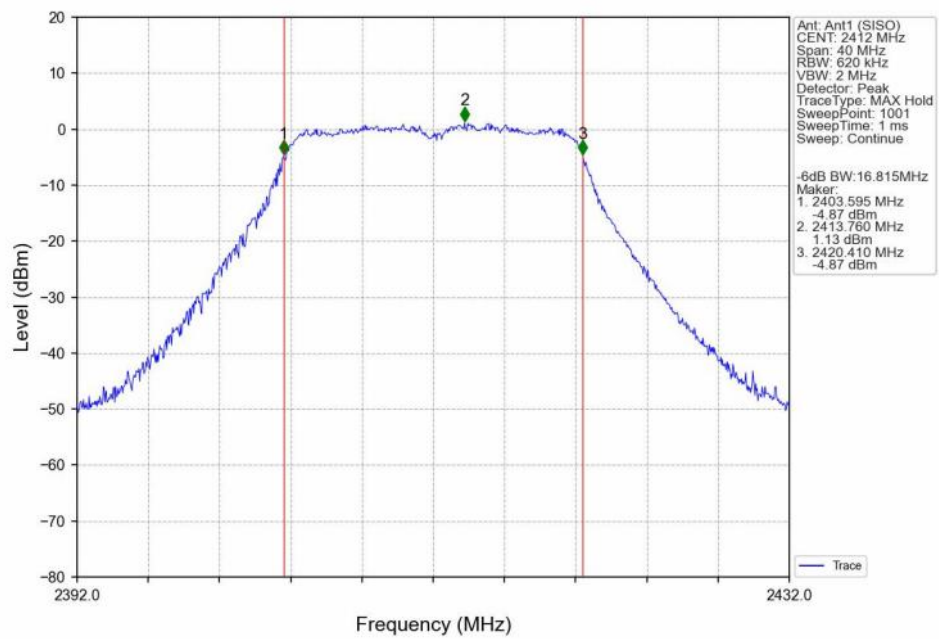
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



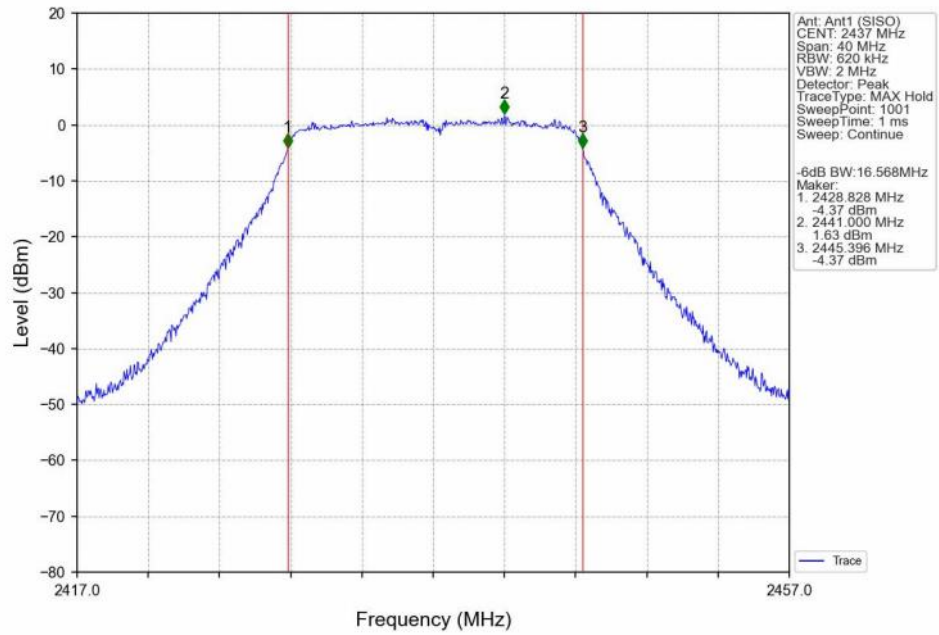
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



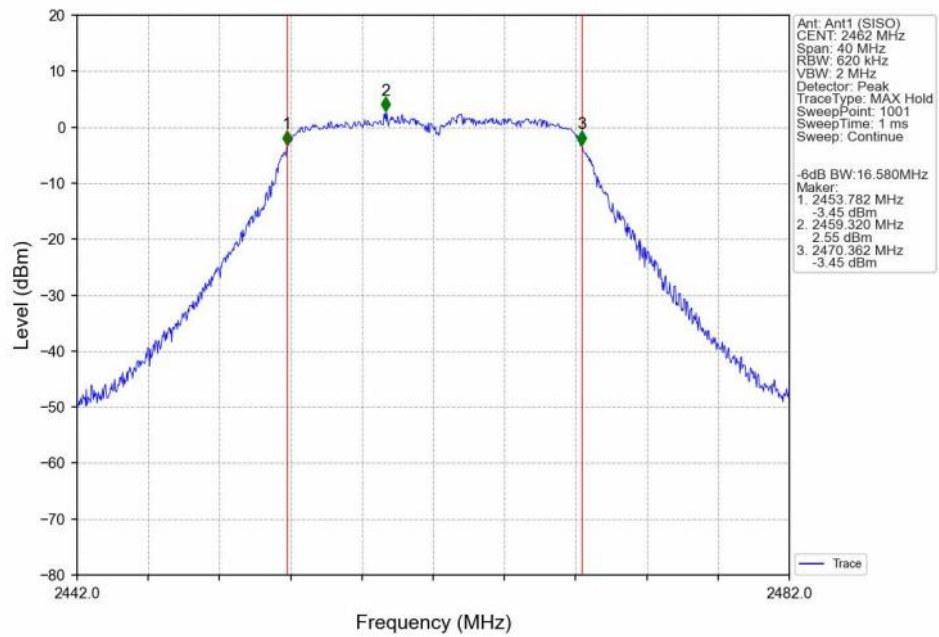
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



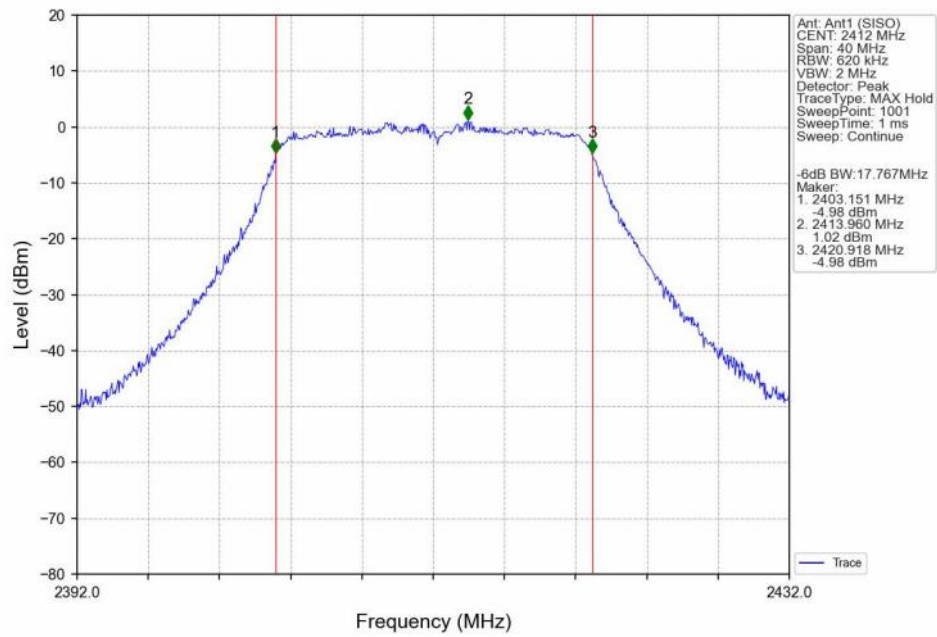
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



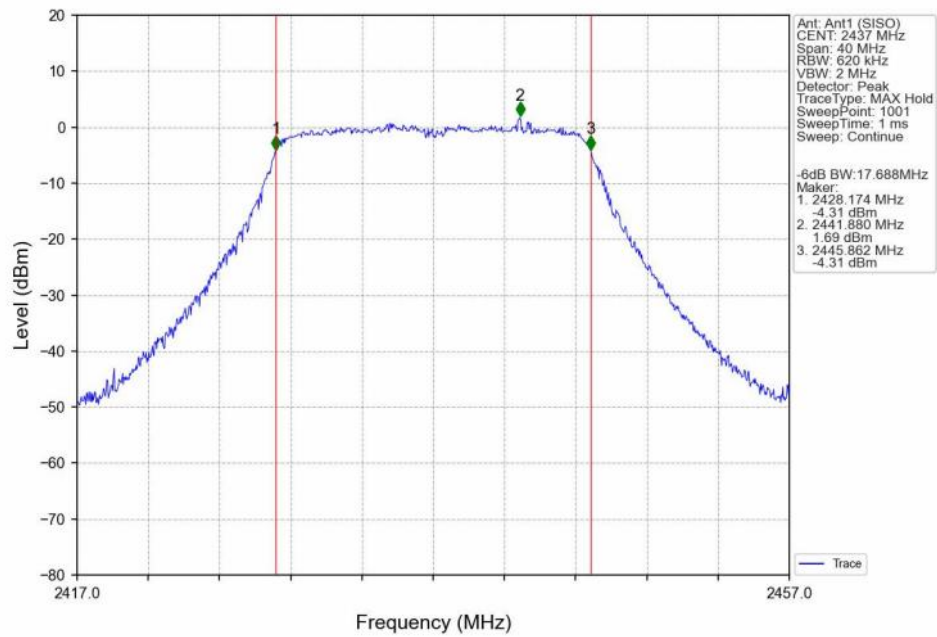
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



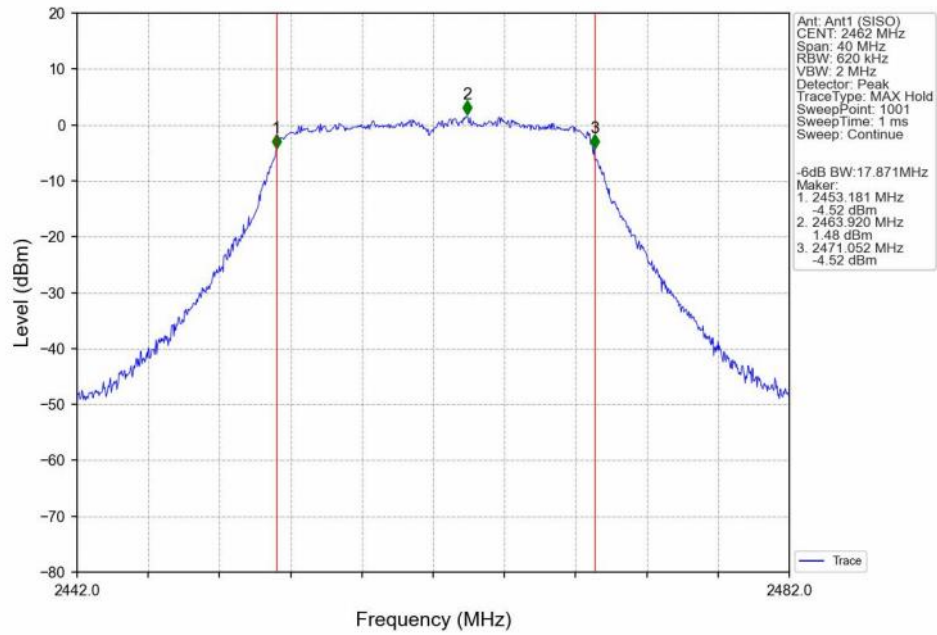
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



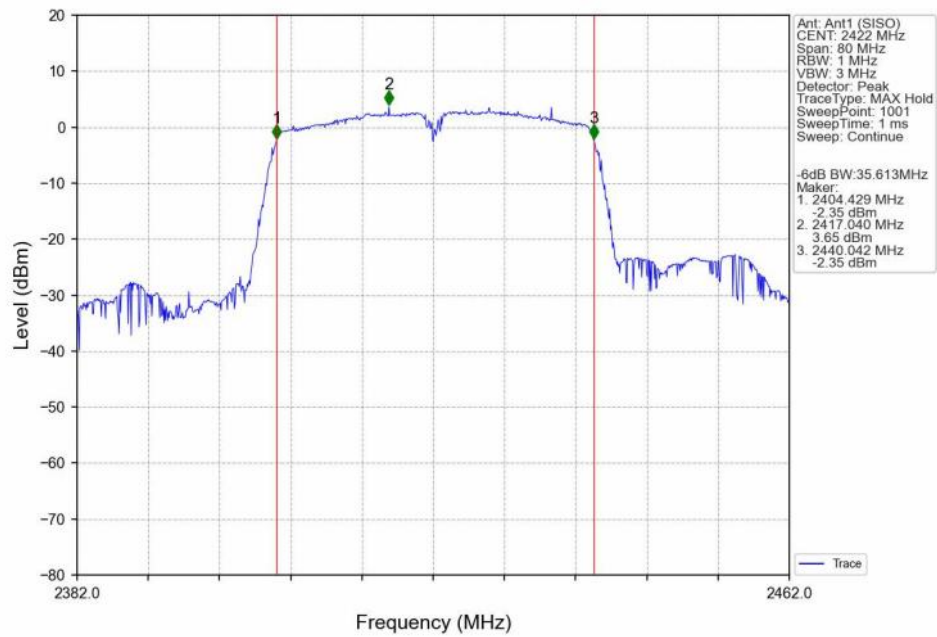
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



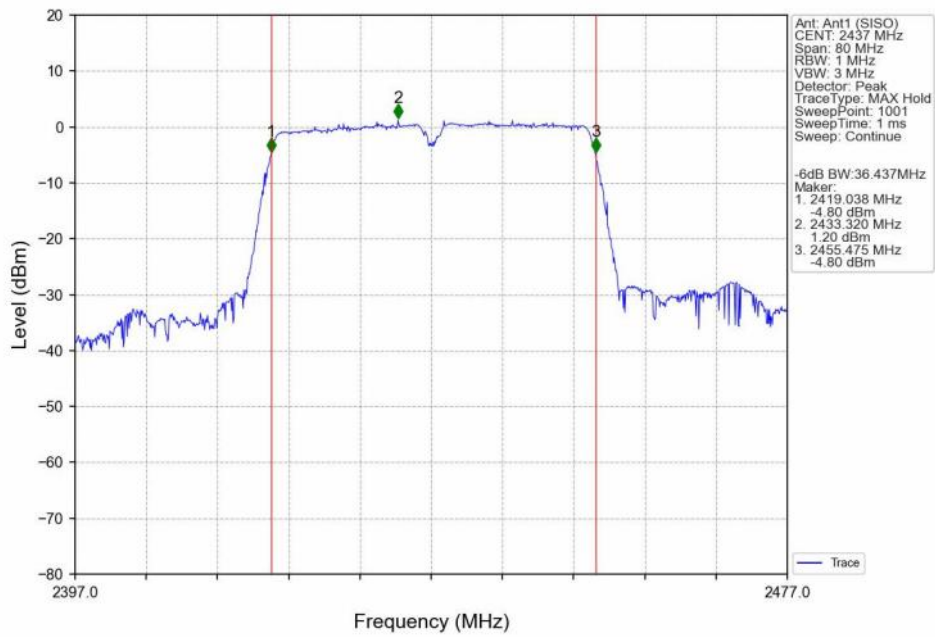
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



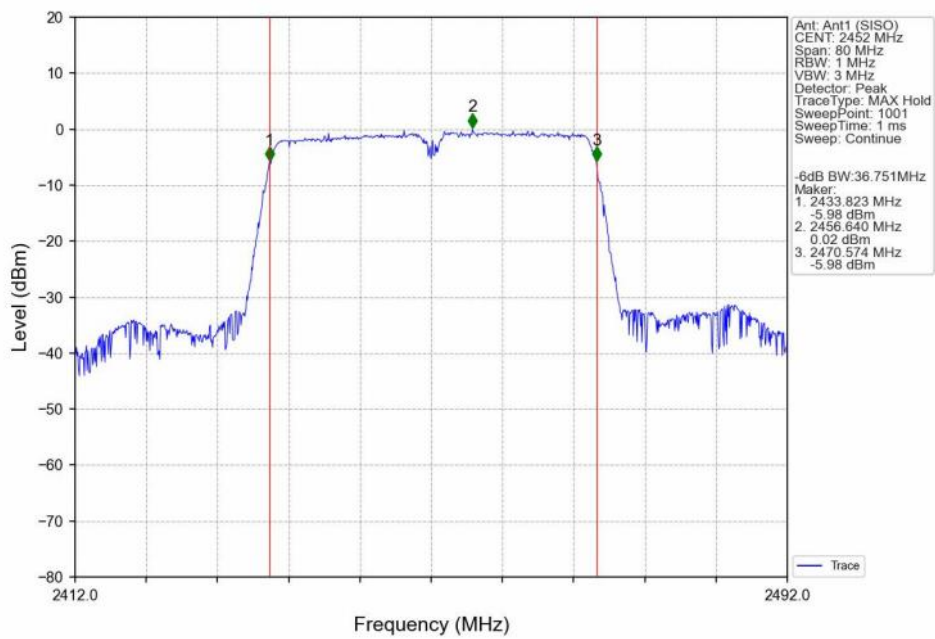
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



3. Maximum Output Power

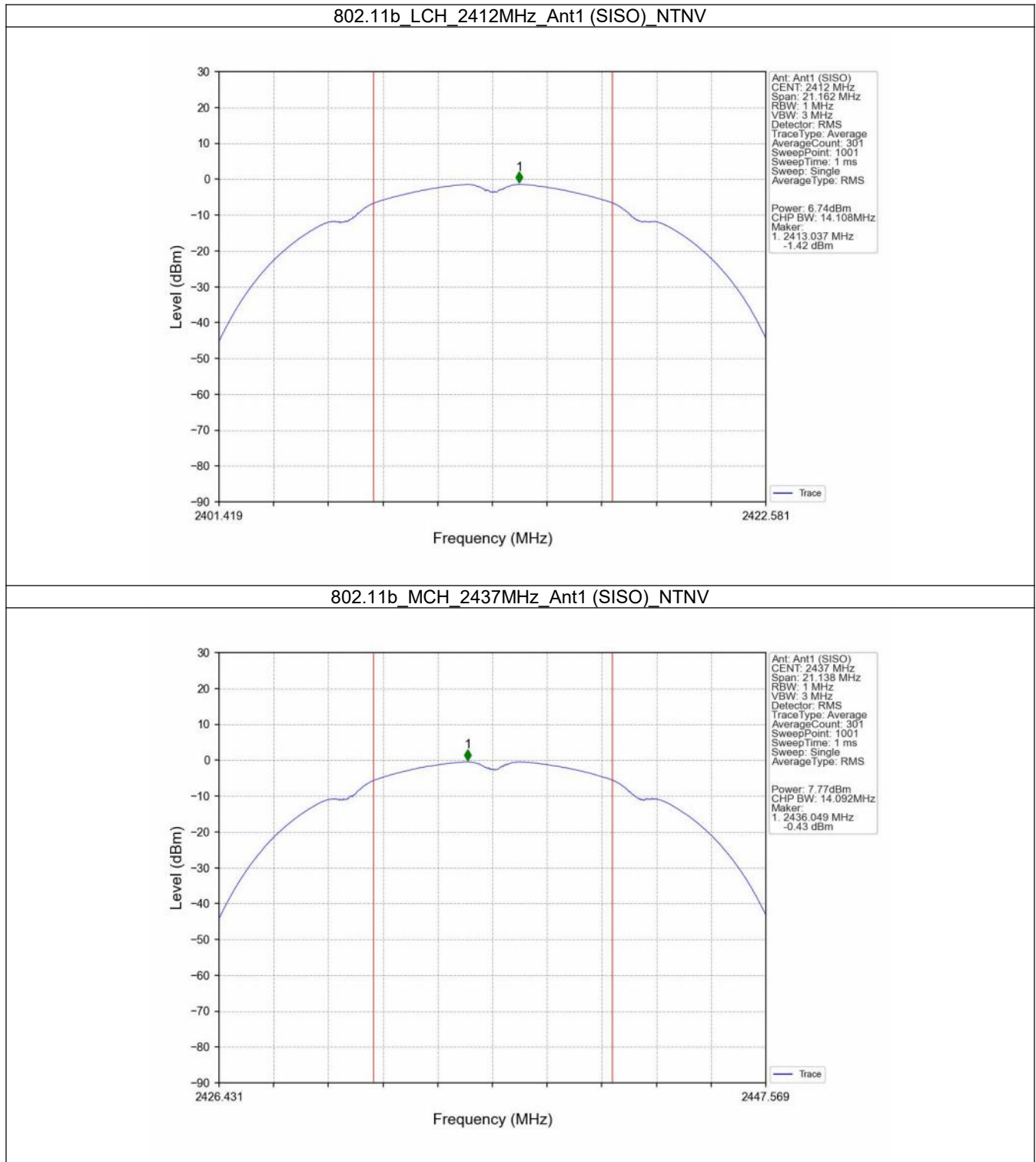
3.1 Test Result

3.1.1 Power

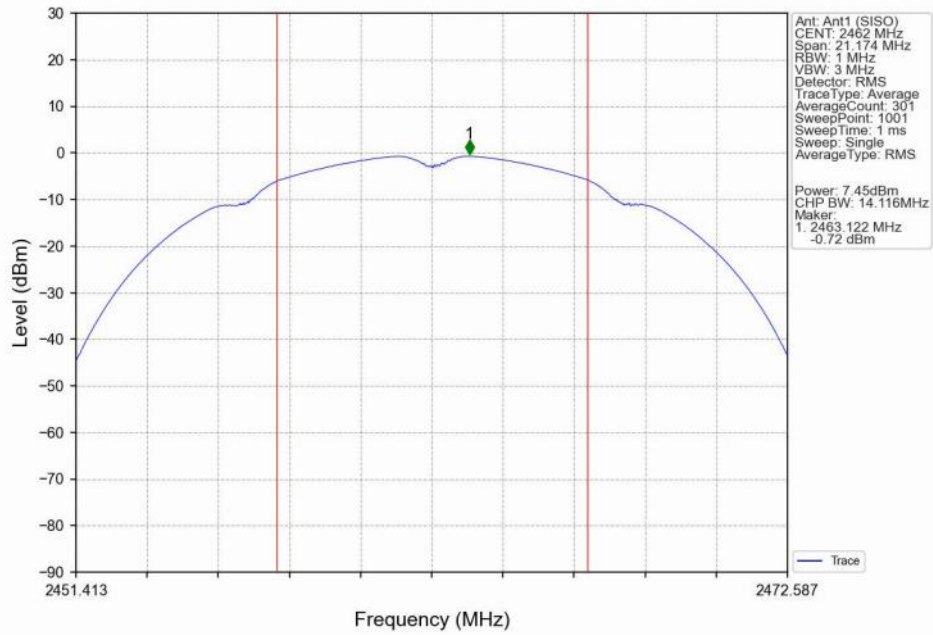
Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)	Test Result
b	2412	6.74	0.00	6.74	30	PASS
b	2437	7.77	0.00	7.77	30	PASS
b	2462	7.45	0.00	7.45	30	PASS
g	2412	6.63	0.26	6.89	30	PASS
g	2437	7.04	0.26	7.30	30	PASS
g	2462	7.43	0.27	7.70	30	PASS
n20	2412	6.07	0.28	6.35	30	PASS
n20	2437	6.44	0.28	6.72	30	PASS
n20	2462	6.88	0.28	7.16	30	PASS
n40	2422	8.52	0.28	8.80	30	PASS
n40	2437	6.94	0.27	7.21	30	PASS
n40	2452	5.69	0.27	5.96	30	PASS
Note1: Antenna Gain: Ant1: 2.08dBi;						

3.2 Test Graph

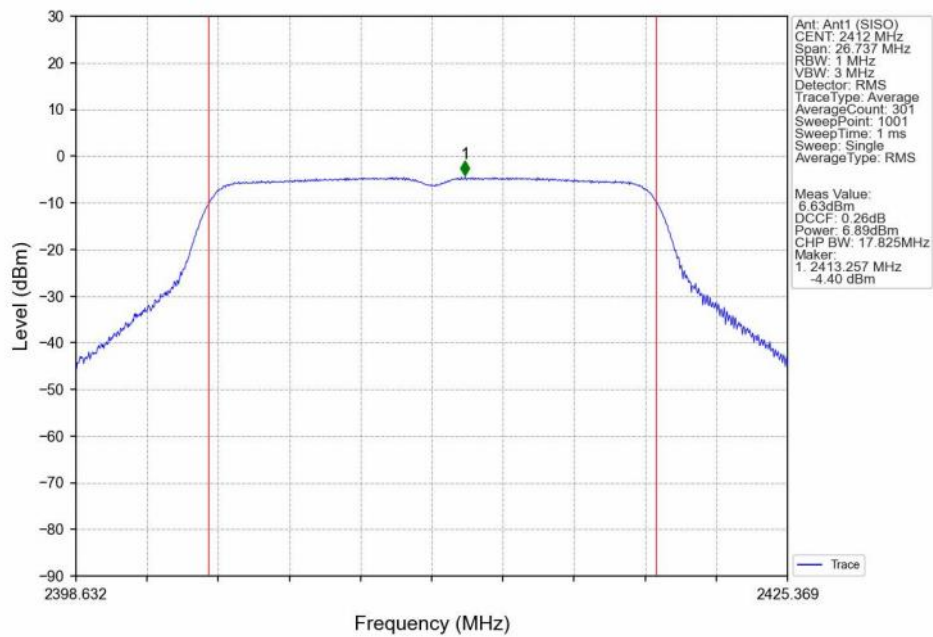
3.2.1 Power



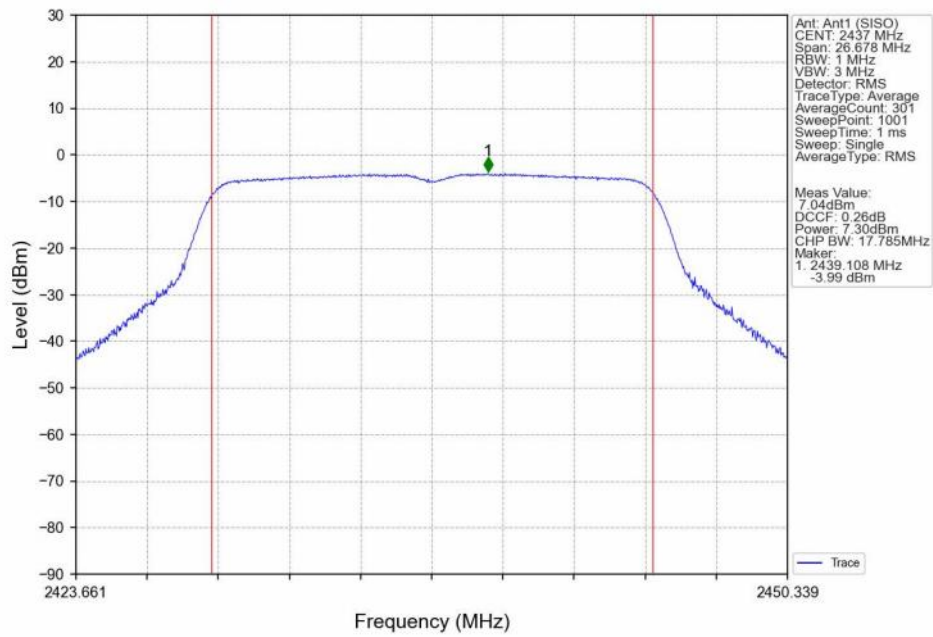
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



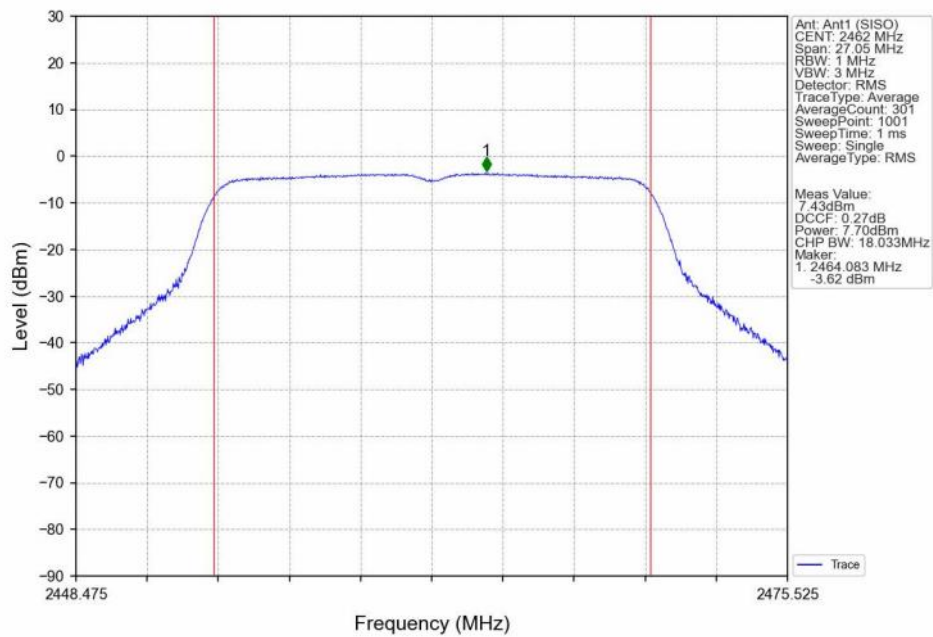
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



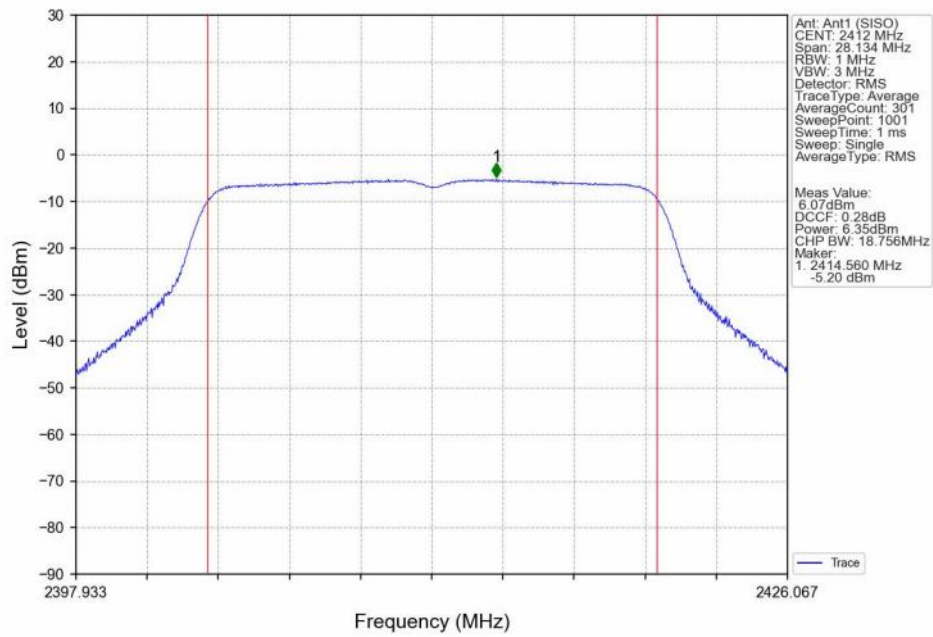
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



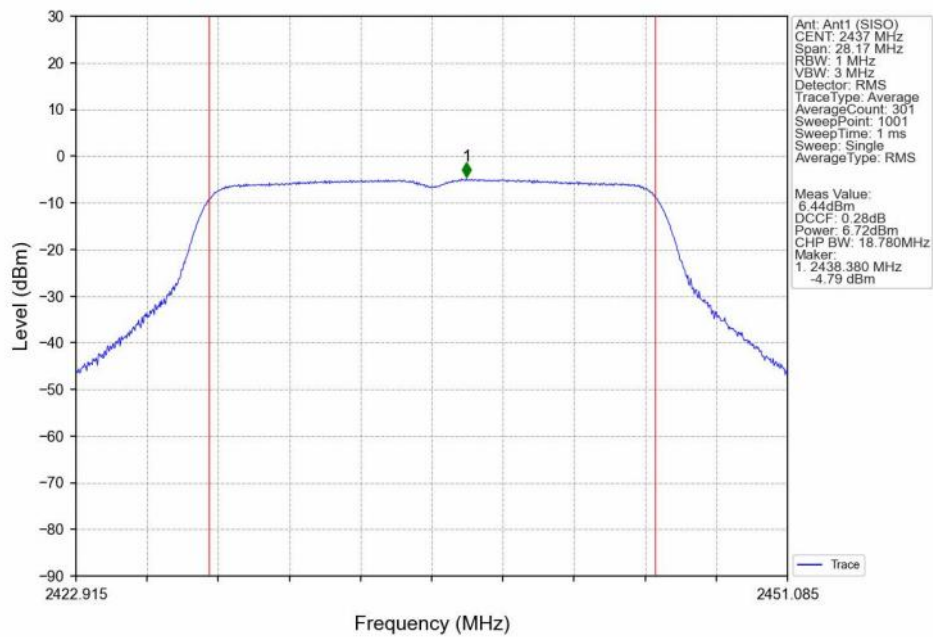
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



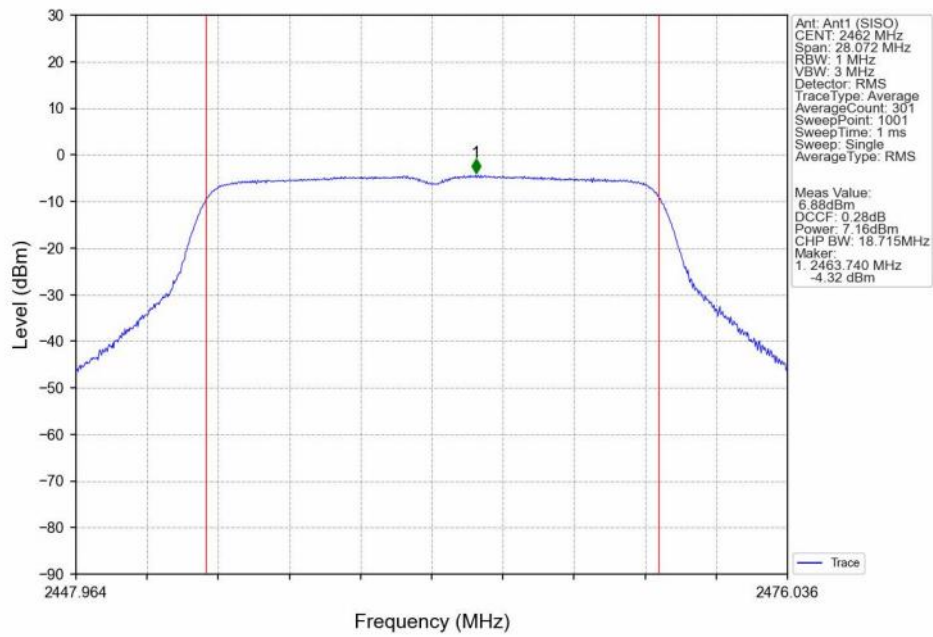
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



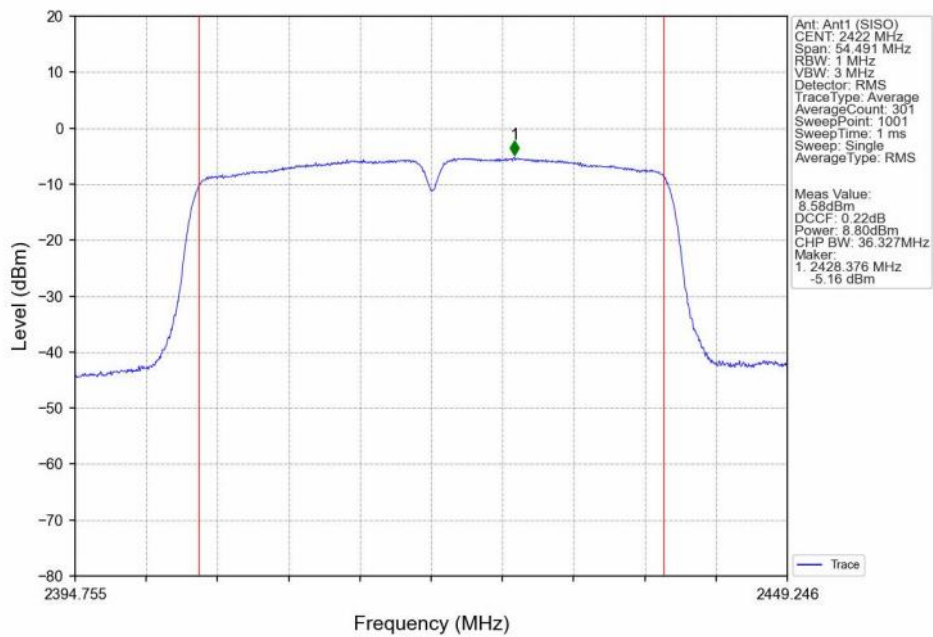
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



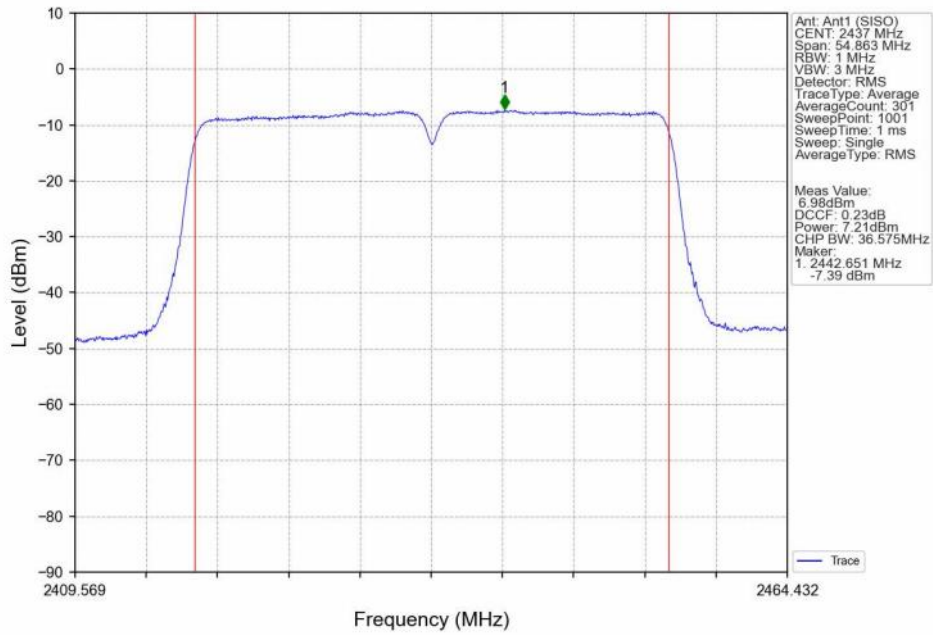
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



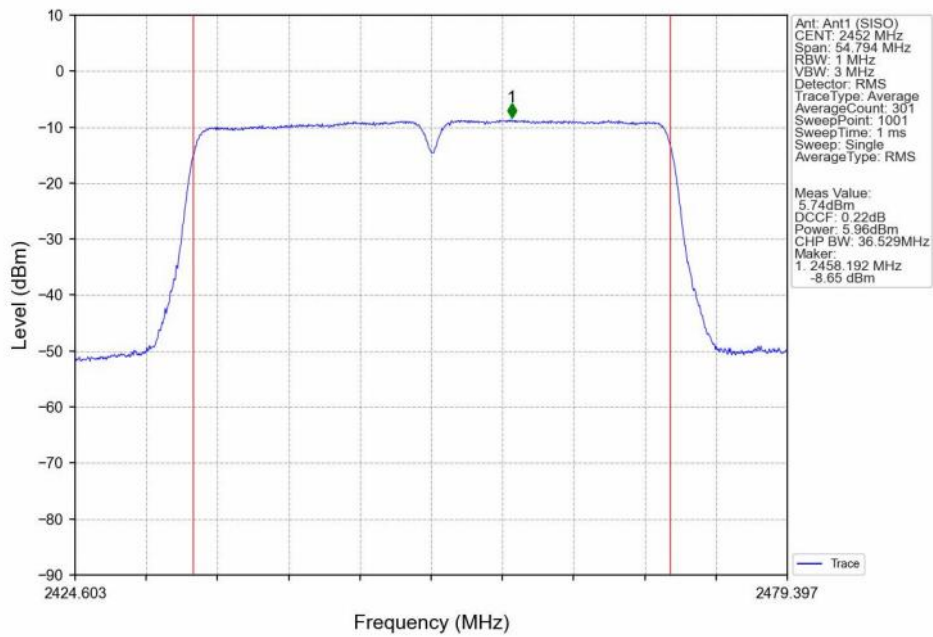
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



4. Power Spectral Density

4.1 Test Result

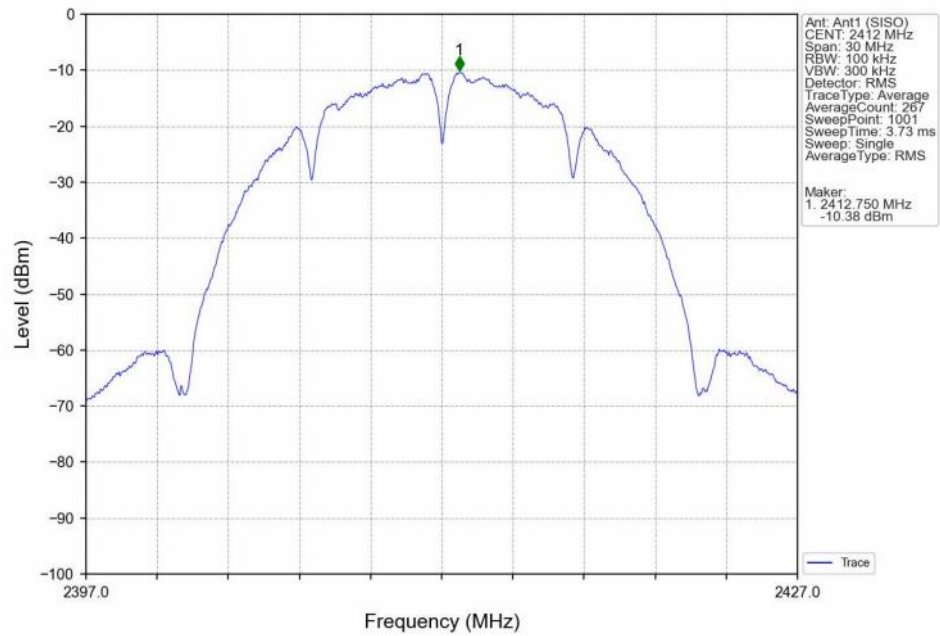
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Duty Cycle Factor (dB)	Maximum PSD			Verdict
				ANT1(dBm/100KHz)	ANT1(dBm/3KHz)	Limit(dBm/3KHz)	
802.11b	SISO	2412	0.00	-10.38	-25.61	<=8	Pass
		2437	0.00	-9.29	-24.52	<=8	Pass
		2462	0.00	-9.71	-24.94	<=8	Pass
802.11g	SISO	2412	0.26	-13.25	-28.48	<=8	Pass
		2437	0.26	-12.60	-27.83	<=8	Pass
		2462	0.27	-12.35	-27.58	<=8	Pass
802.11n (HT20)	SISO	2412	0.28	-13.70	-28.93	<=8	Pass
		2437	0.28	-13.74	-28.97	<=8	Pass
		2462	0.28	-13.10	-28.33	<=8	Pass
802.11n (HT40)	SISO	2422	0.28	-13.20	-28.43	<=8	Pass
		2437	0.27	-15.93	-31.16	<=8	Pass
		2452	0.27	-17.13	-32.36	<=8	Pass
Note1: Antenna Gain: Ant1: 2.08dBi; Note2: ANT1(dBm/3KHz) = ANT1(dBm/100KHz) + 10log(3/100)							

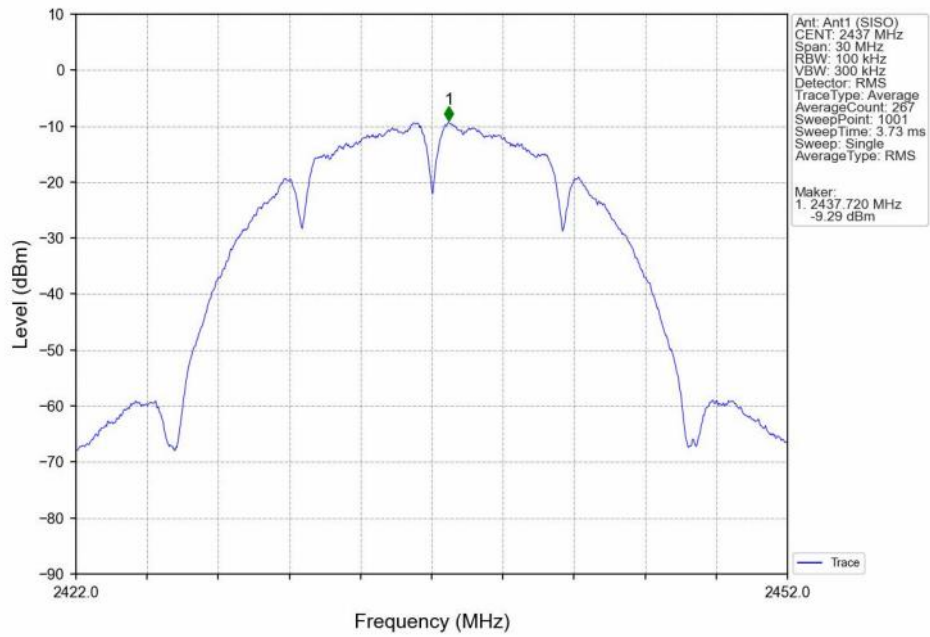
4.2 Test Graph

4.2.1 PSD

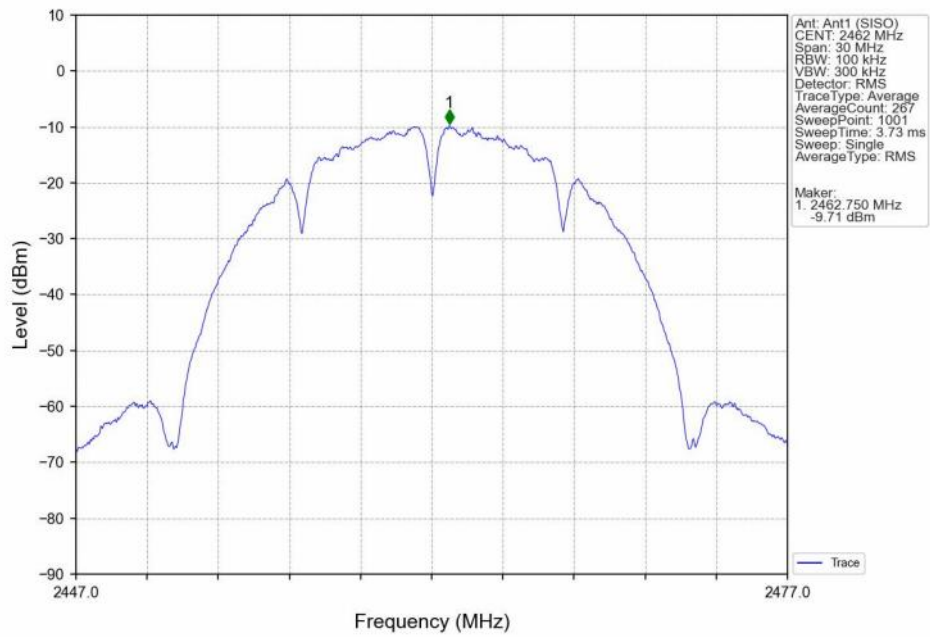
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



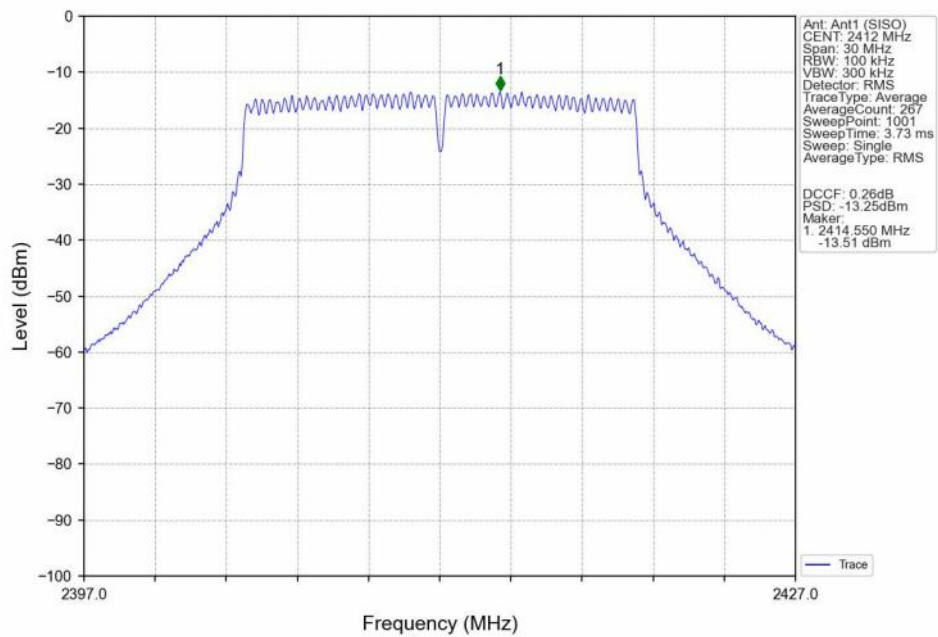
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



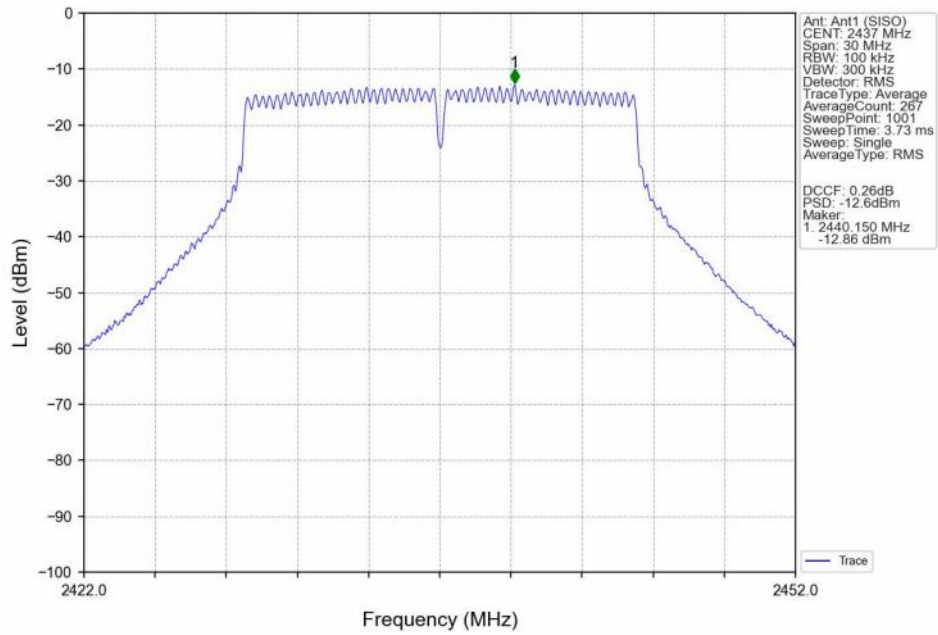
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



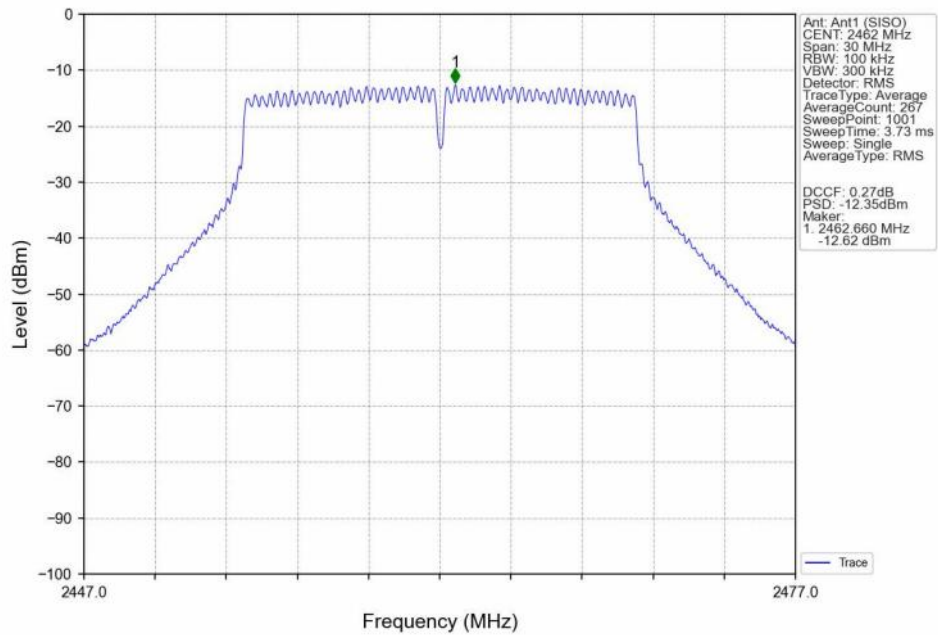
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



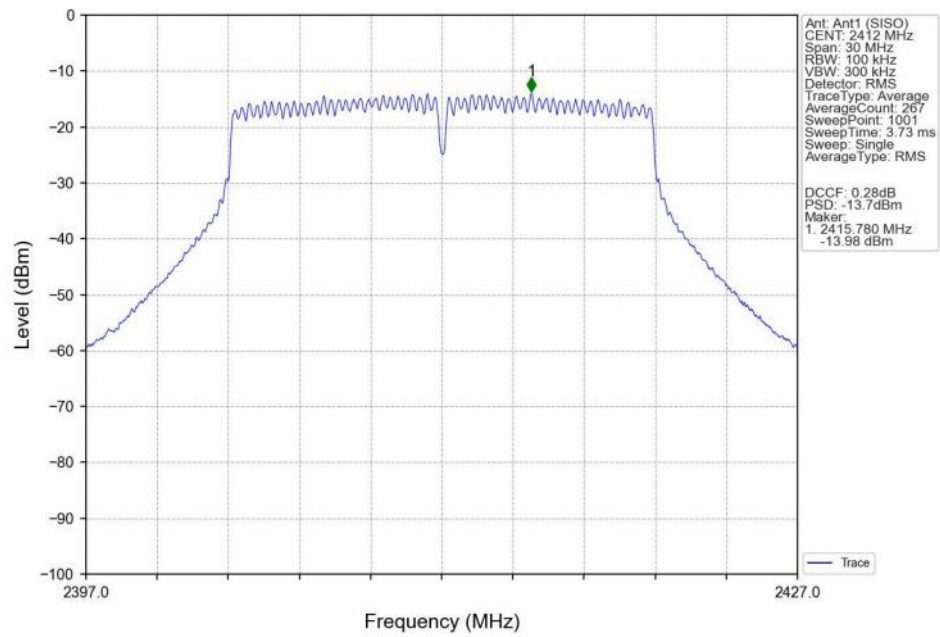
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



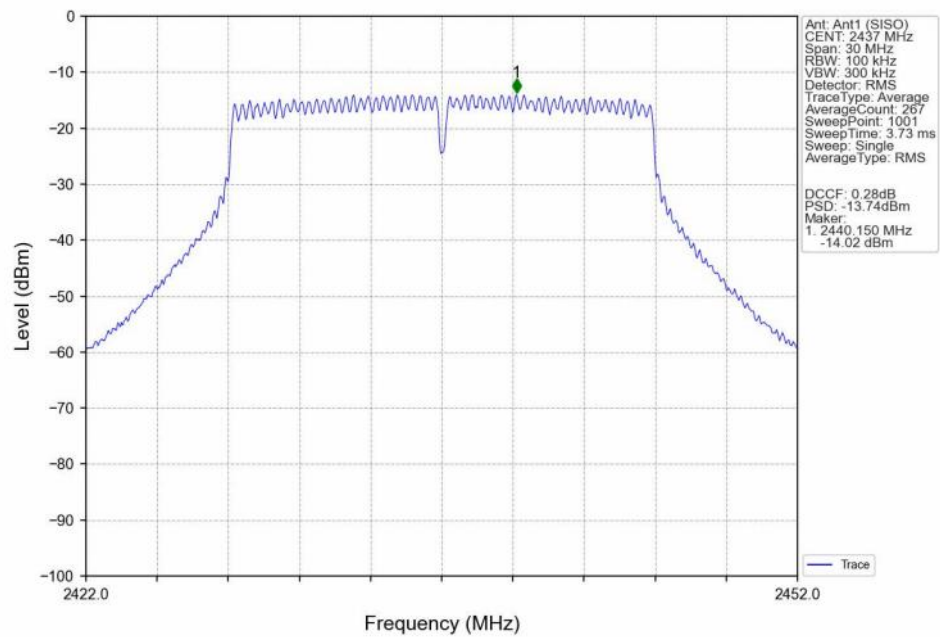
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



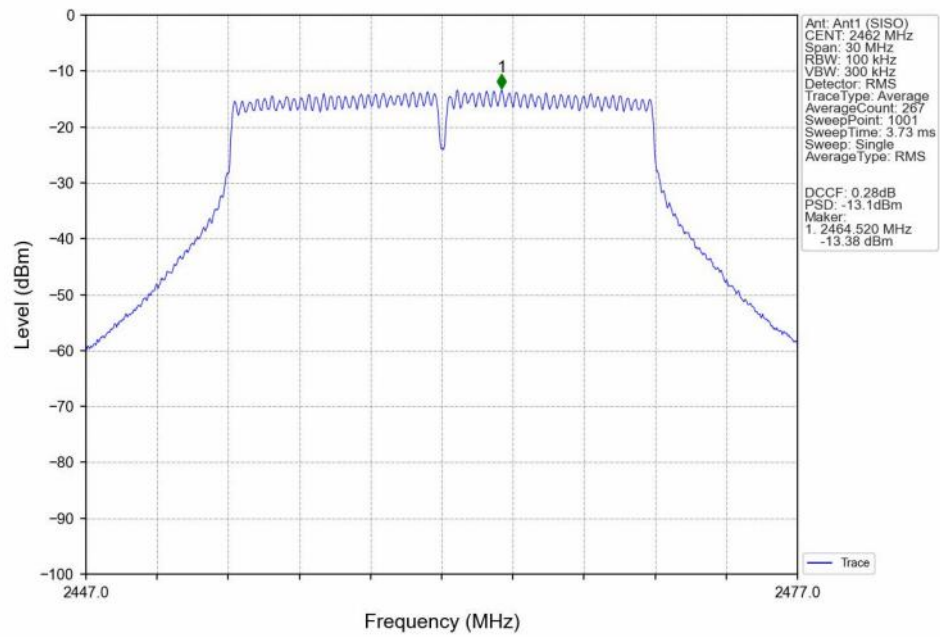
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



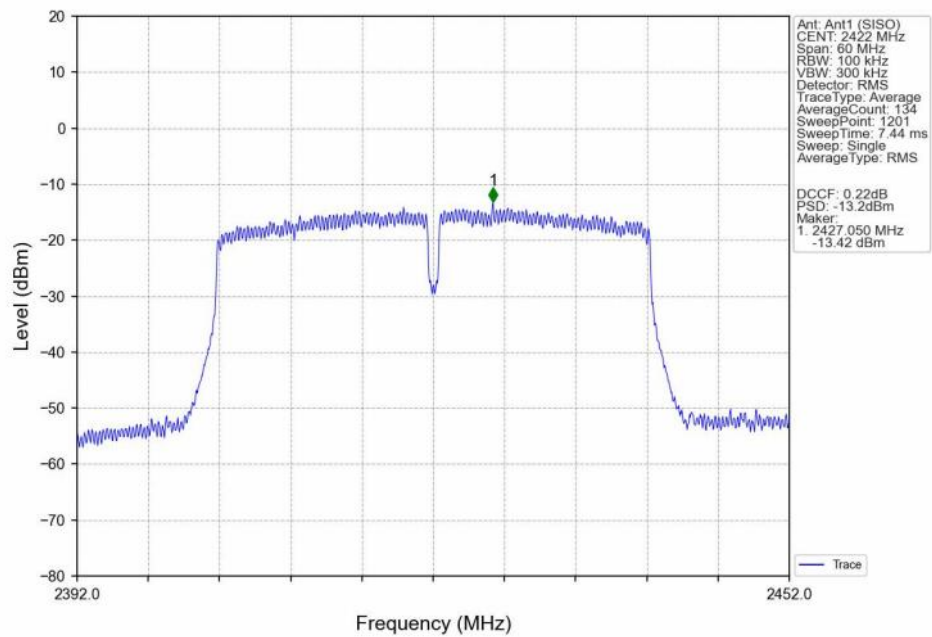
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



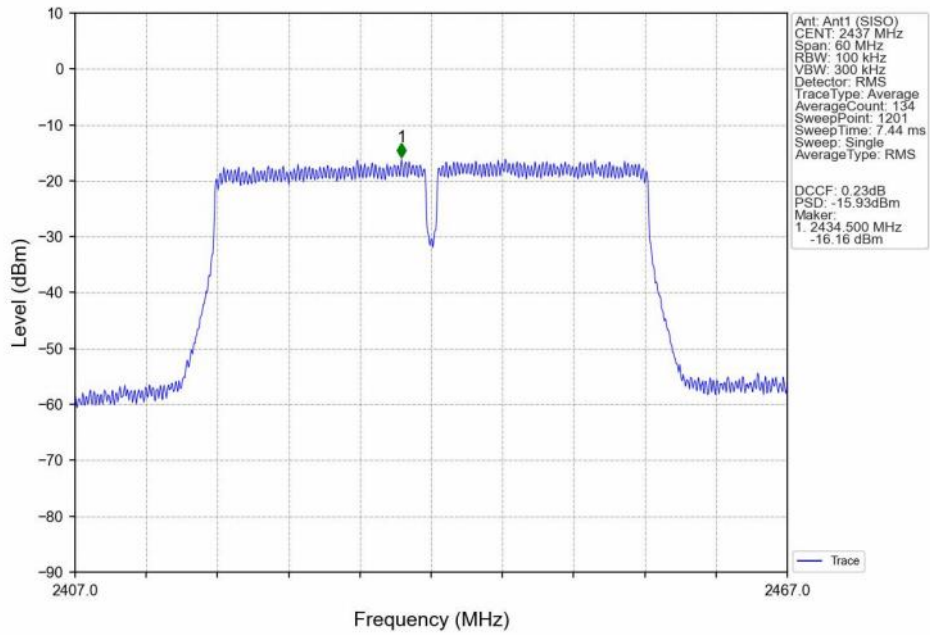
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



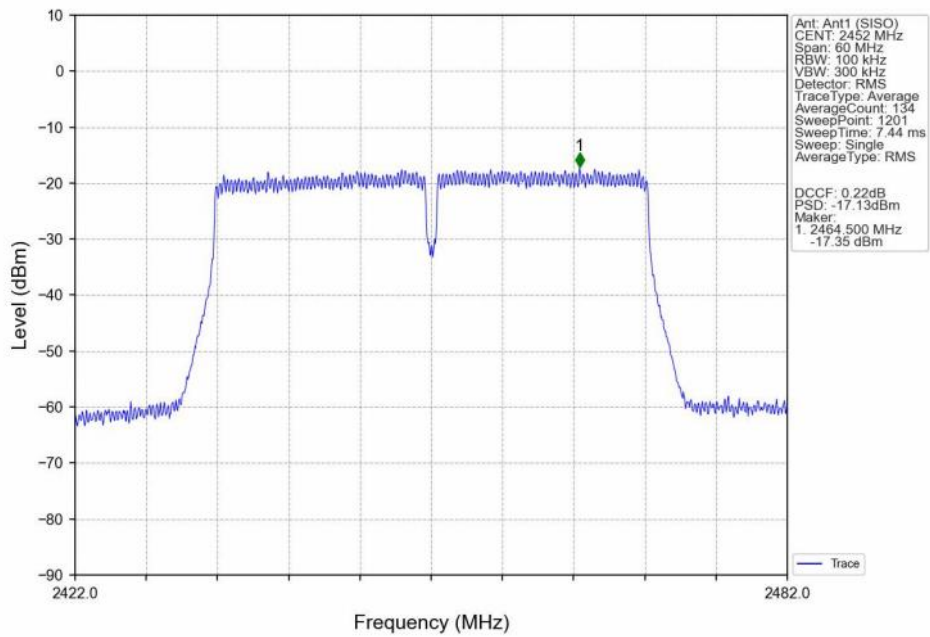
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions 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	-1.59
		2437	1	-0.50
		2462	1	-0.81
802.11g	SISO	2412	1	-4.50
		2437	1	-3.62
		2462	1	-3.83
802.11n (HT20)	SISO	2412	1	-5.13
		2437	1	-4.21
		2462	1	-3.75
802.11n (HT40)	SISO	2422	1	-4.83
		2437	1	-6.84
		2452	1	-8.06

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.

4.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-1.59	-31.59	Pass
		2437	1	-0.50	-30.50	Pass
		2462	1	-0.81	-30.81	Pass
802.11g	SISO	2412	1	-4.50	-34.50	Pass
		2437	1	-3.62	-33.62	Pass
		2462	1	-3.83	-33.83	Pass
802.11n (HT20)	SISO	2412	1	-5.13	-35.13	Pass
		2437	1	-4.21	-34.21	Pass
		2462	1	-3.75	-33.75	Pass
802.11n (HT40)	SISO	2422	1	-4.83	-34.83	Pass
		2437	1	-6.84	-36.84	Pass
		2452	1	-8.06	-38.06	Pass

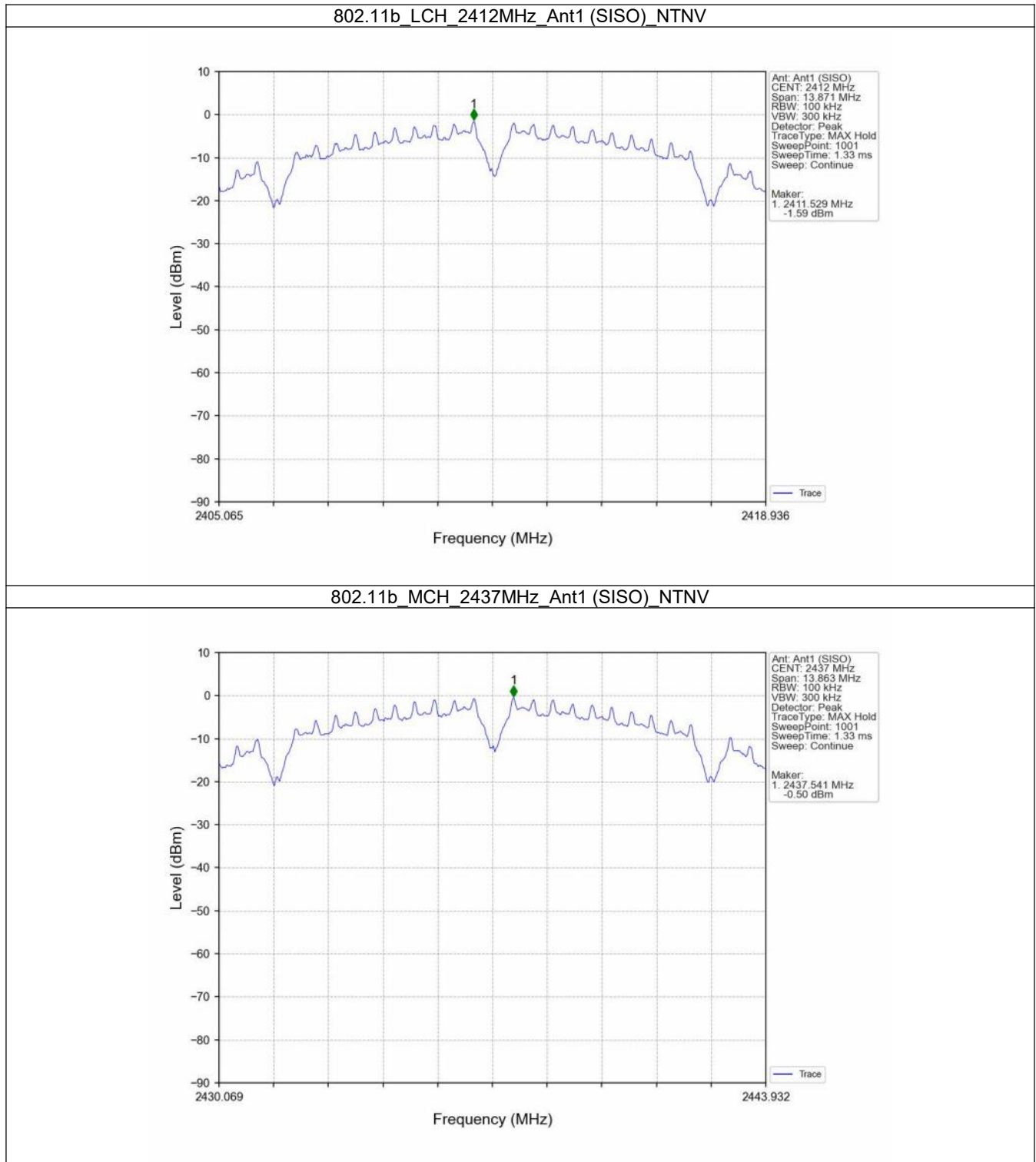
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.1.3.Band Edge Measurement

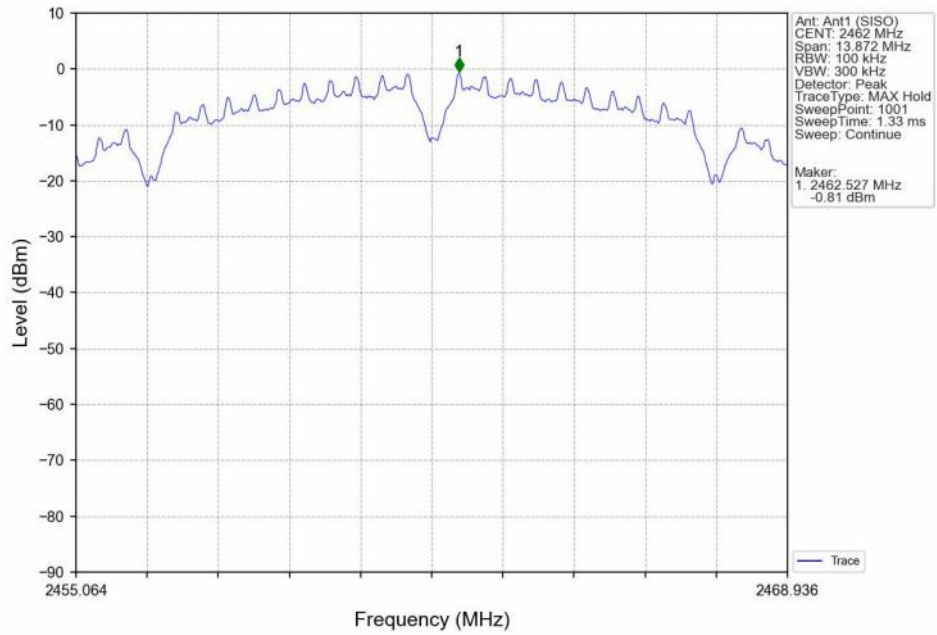
Mode	Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
802.11b	2412	-51.77	-31.59	Pass
	2462	-58.77	-30.81	Pass
802.11g	2412	-40.06	-34.50	Pass
	2462	-56.50	-33.83	Pass
802.11n (HT20)	2412	-39.69	-35.13	Pass
	2462	-56.20	-33.75	Pass
802.11n (HT40)	2422	-41.19	-34.83	Pass
	2452	-45.27	-38.06	Pass

5.2 Test Graph

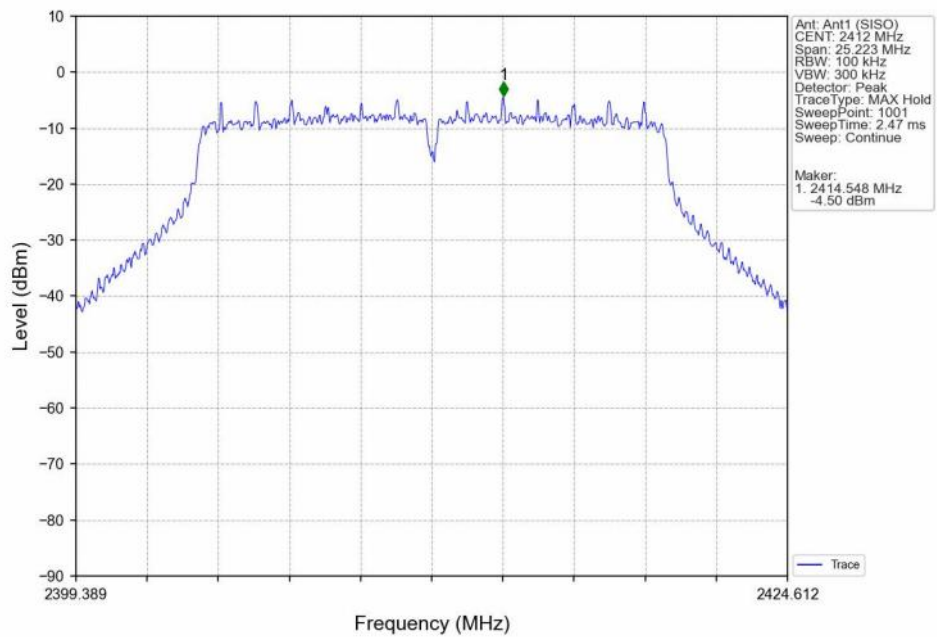
5.2.1 Ref



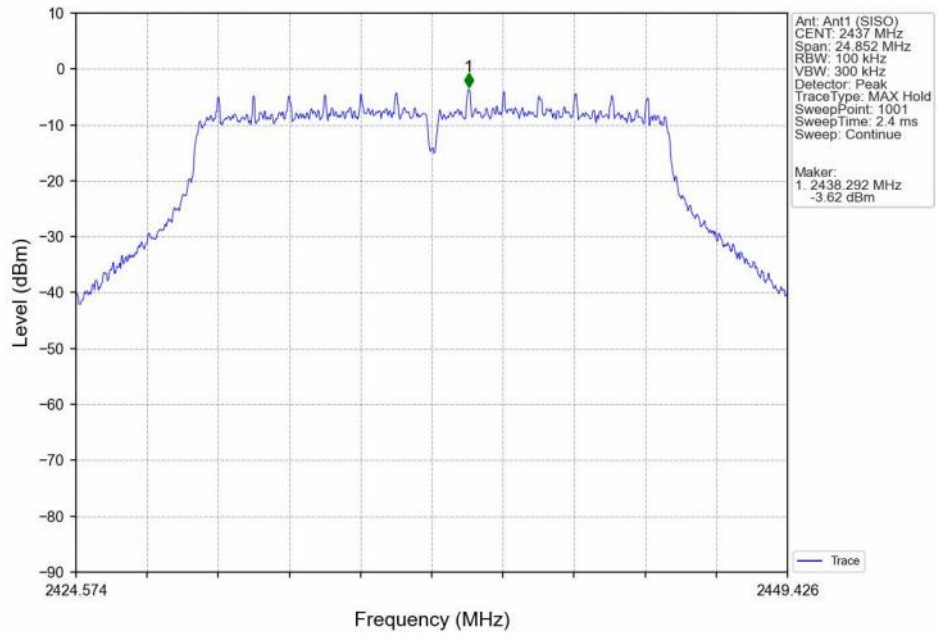
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



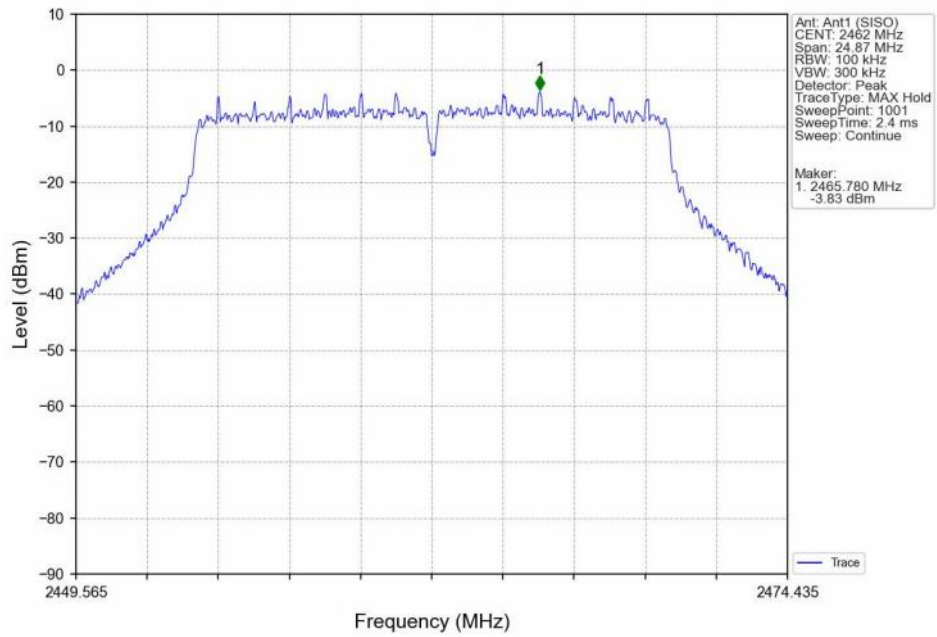
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



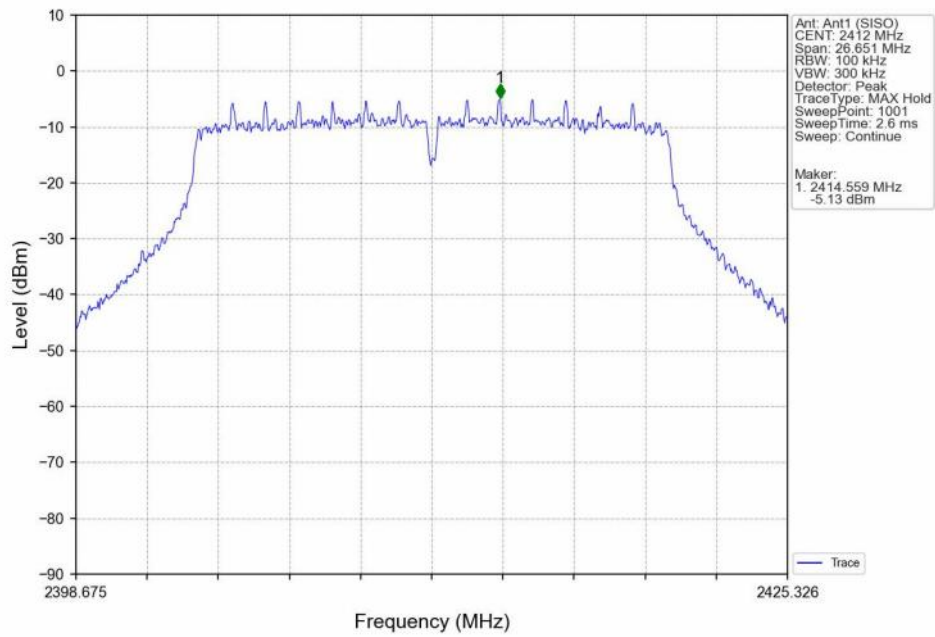
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



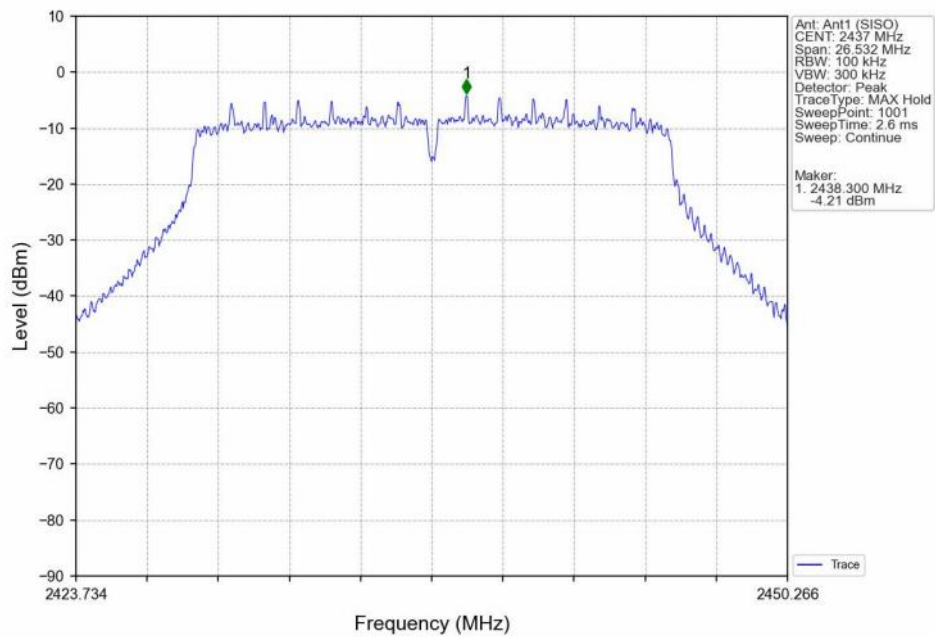
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



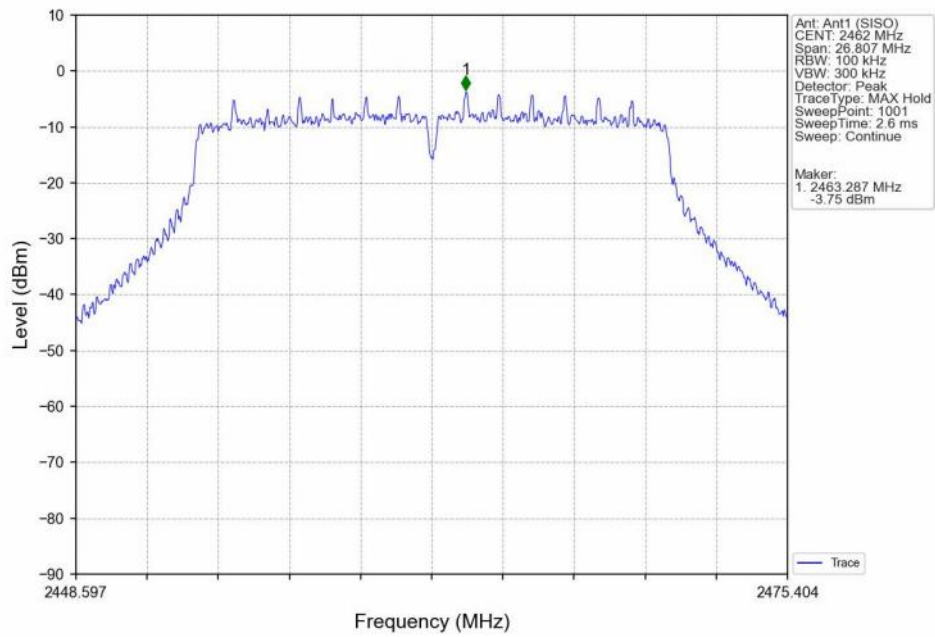
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



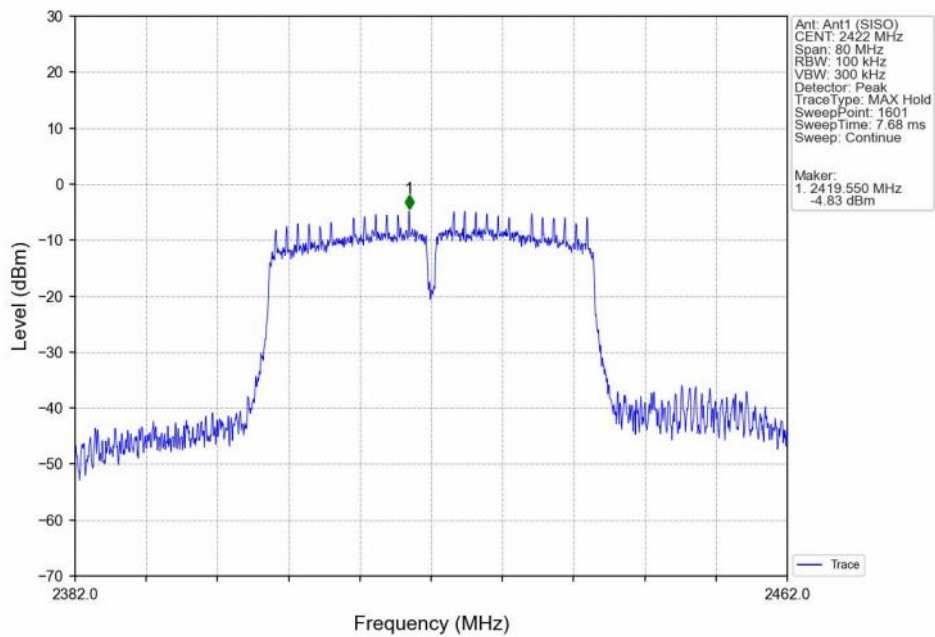
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



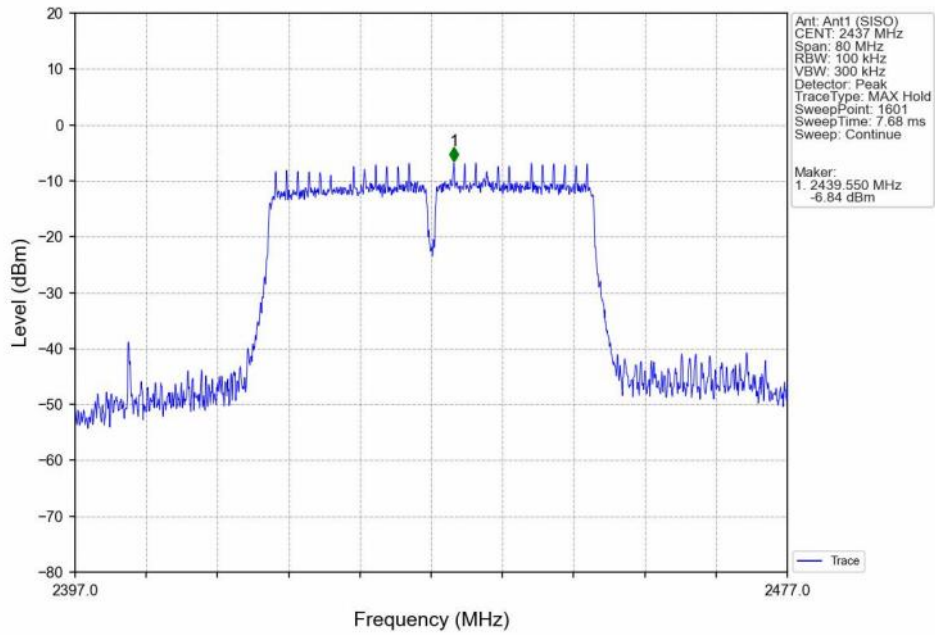
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



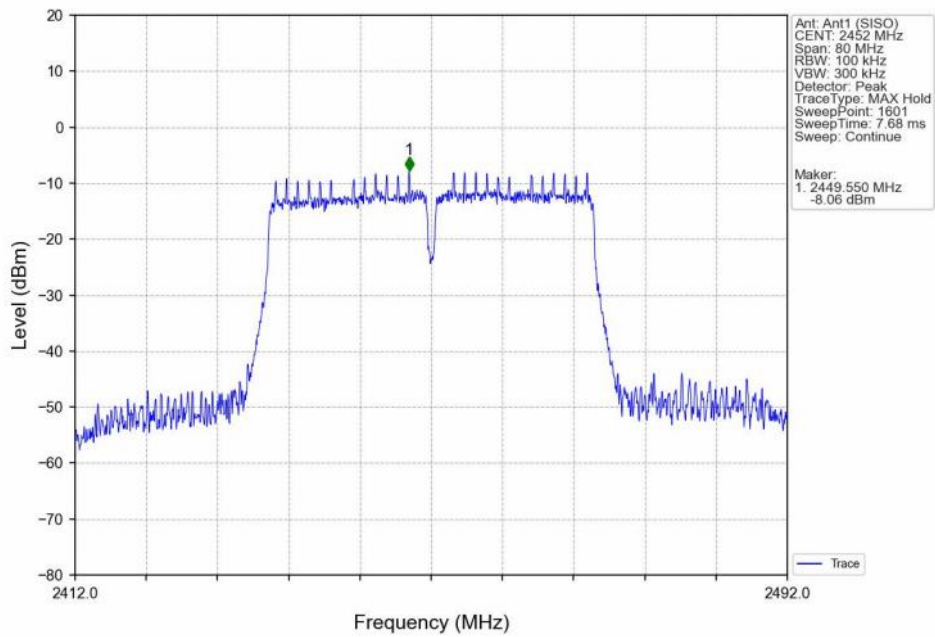
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

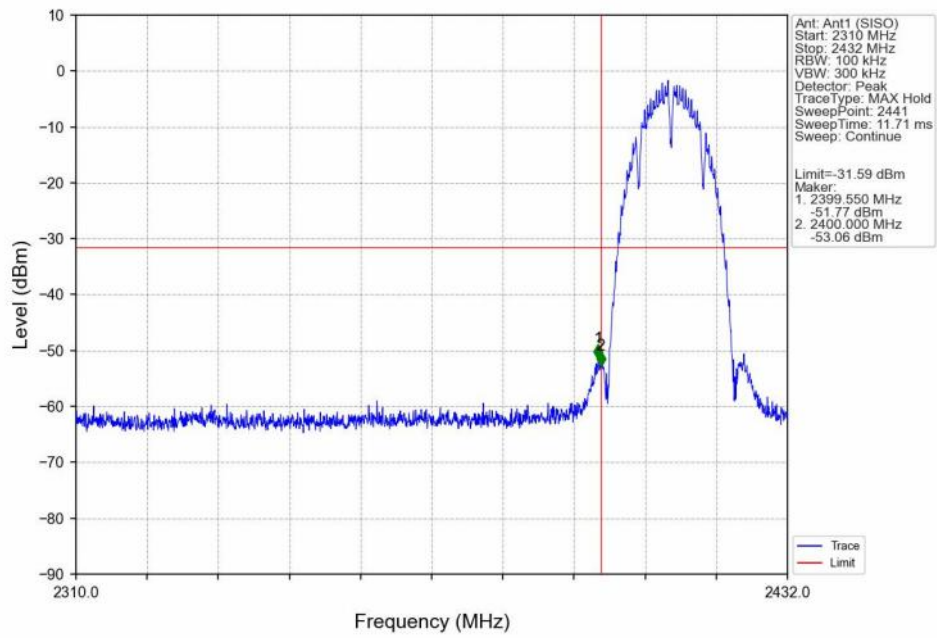


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

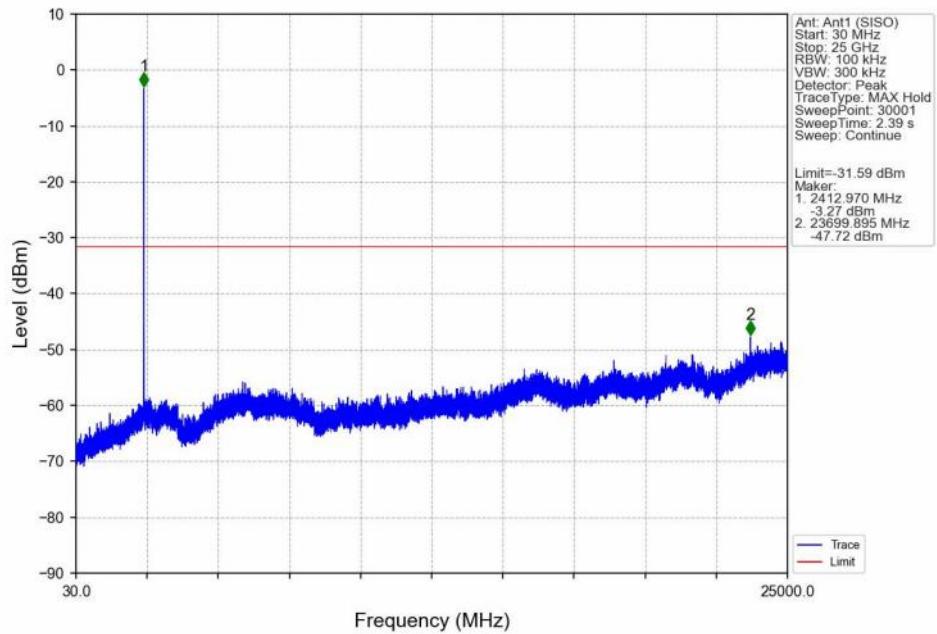


5.2.2 CSE

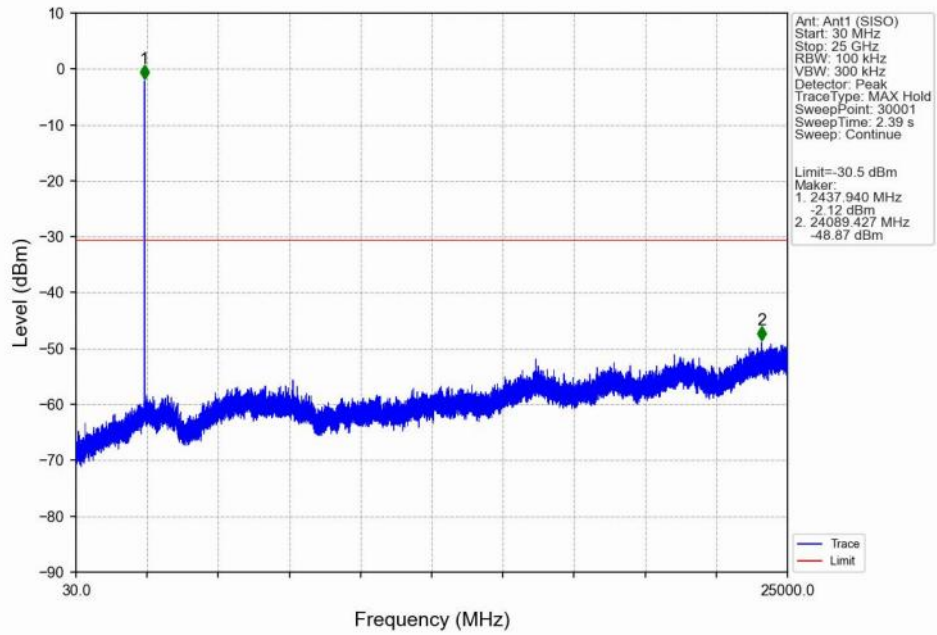
802.11b_LCH_2412MHz_Ant1 (SISO) NTN



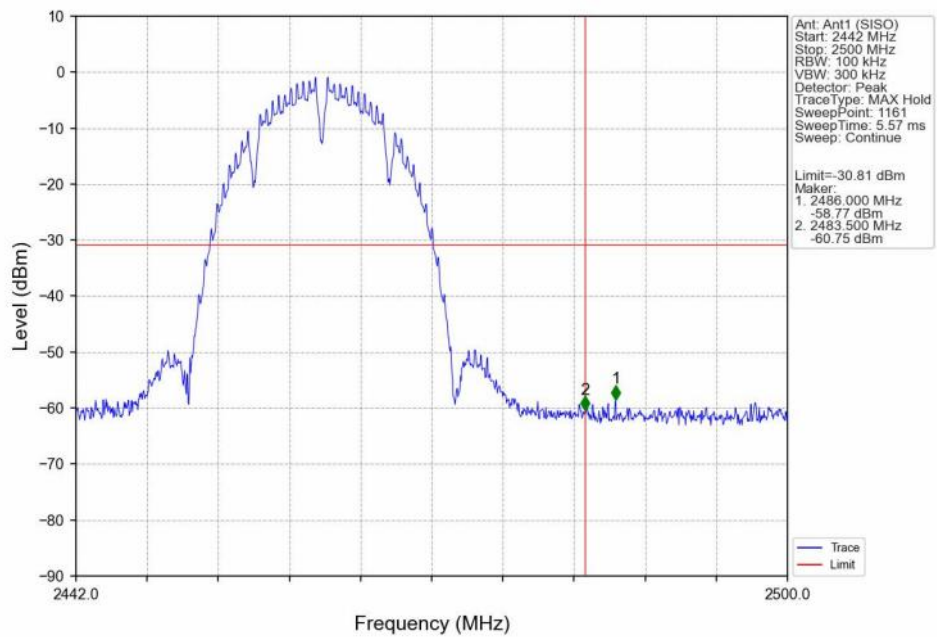
802.11b_LCH_2412MHz_Ant1 (SISO) NTN



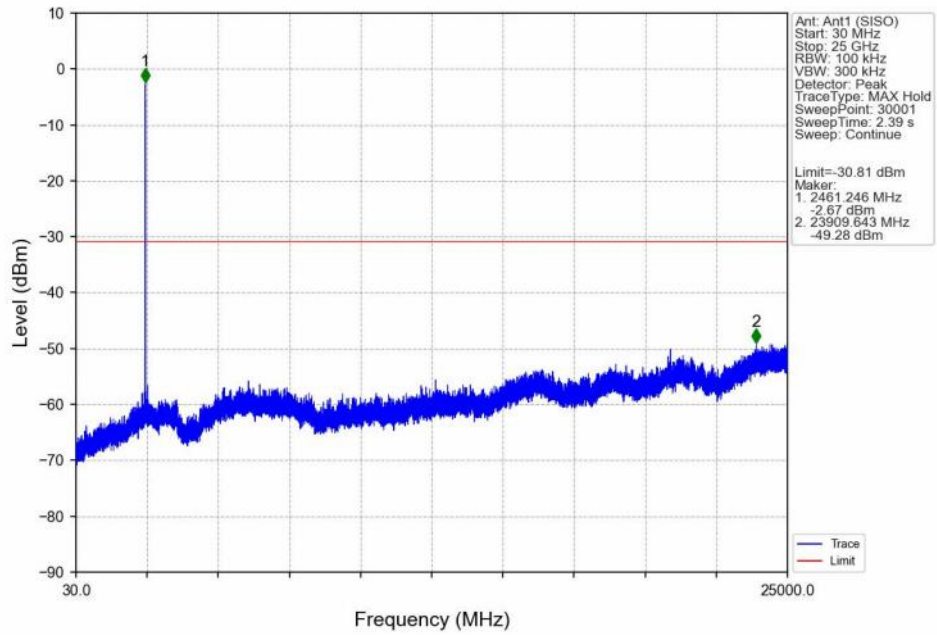
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



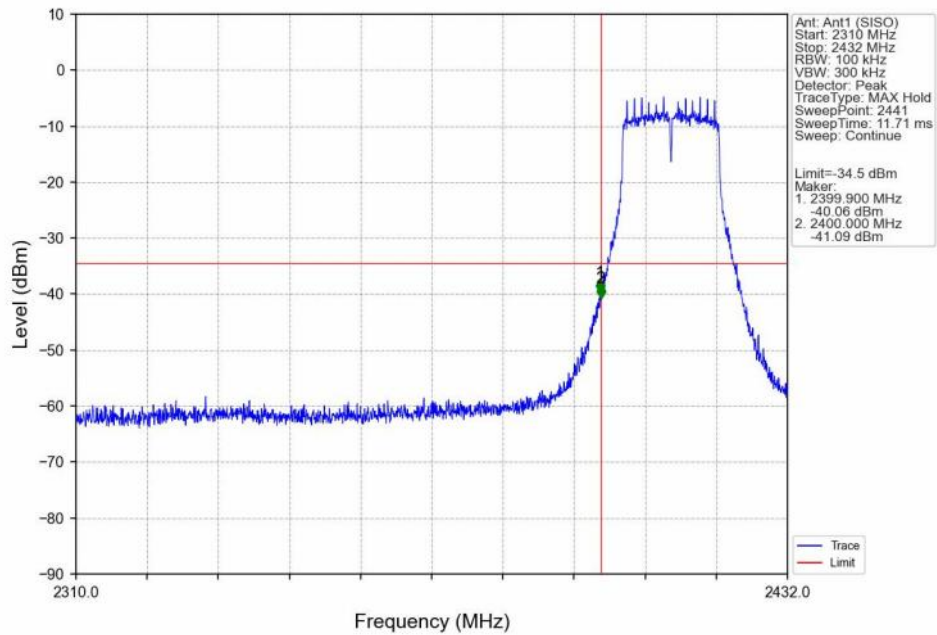
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



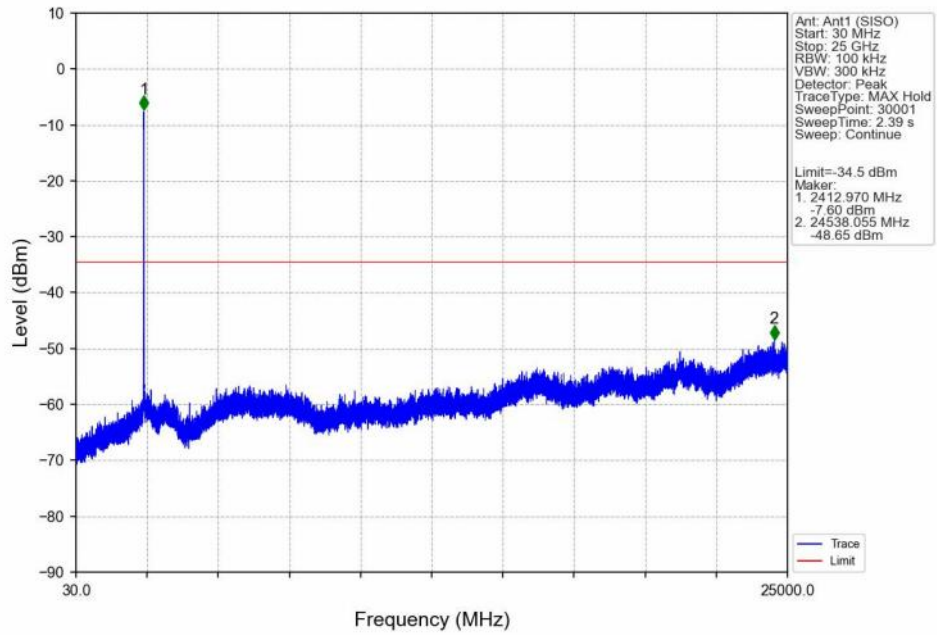
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



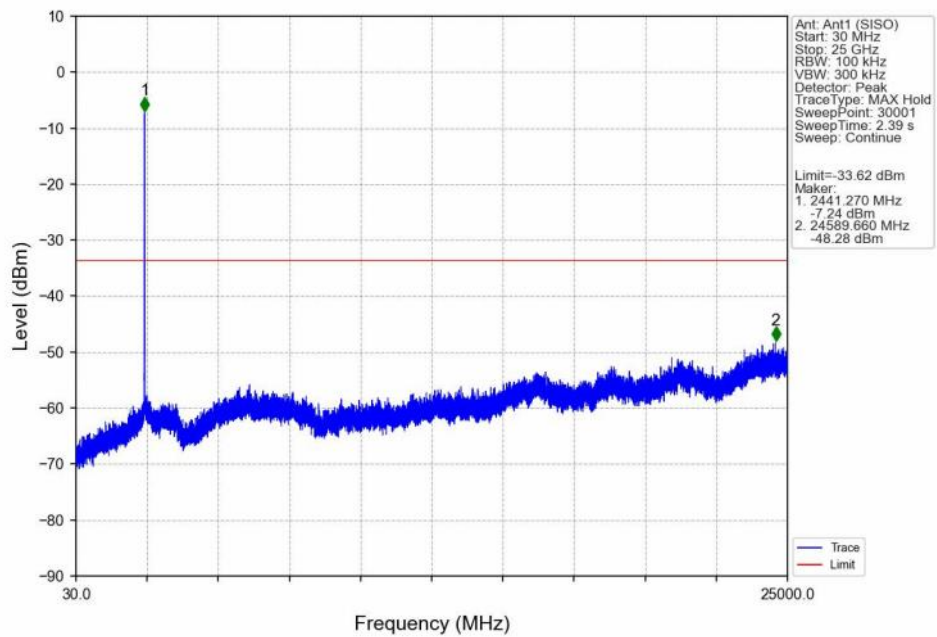
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



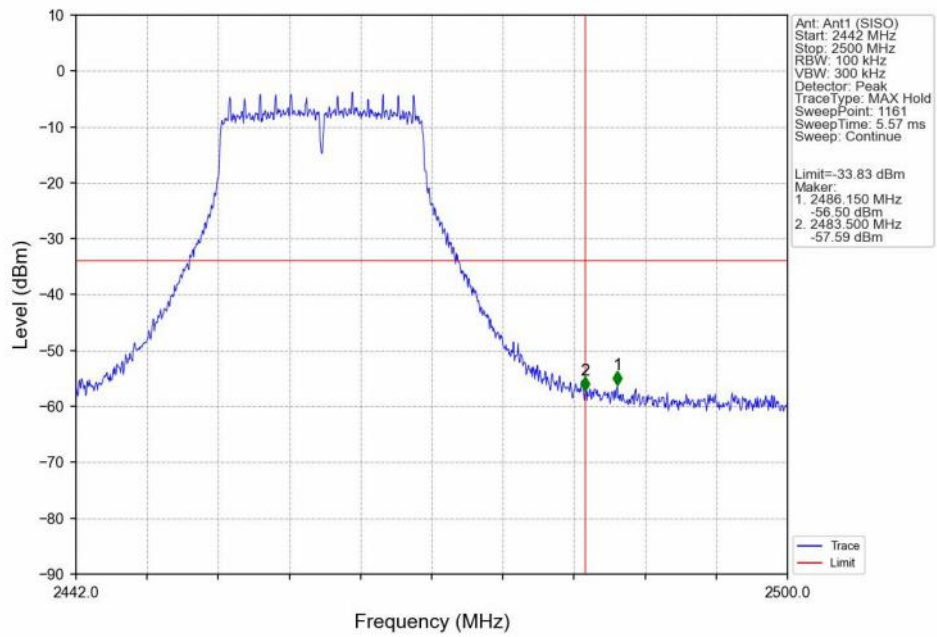
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



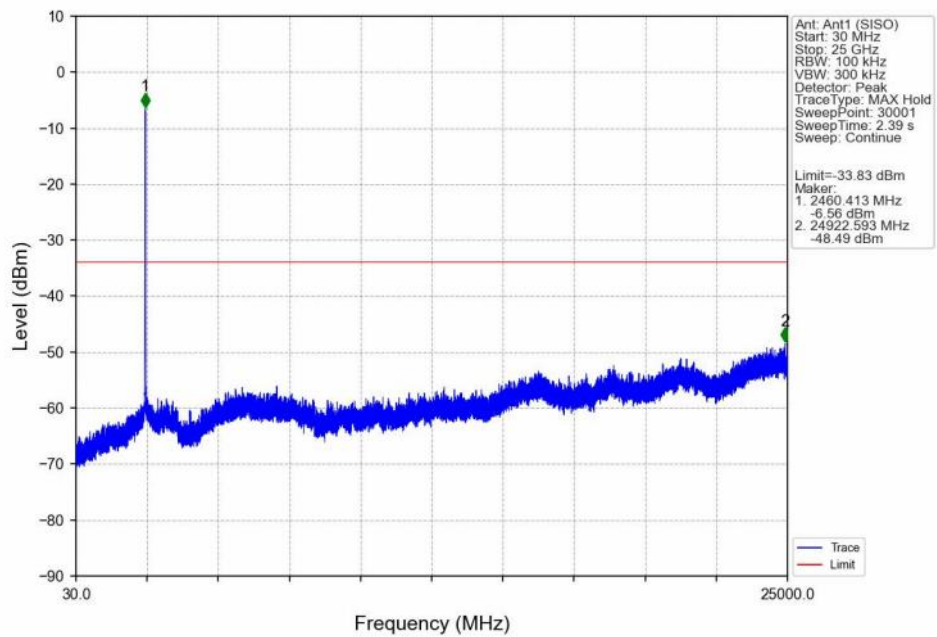
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



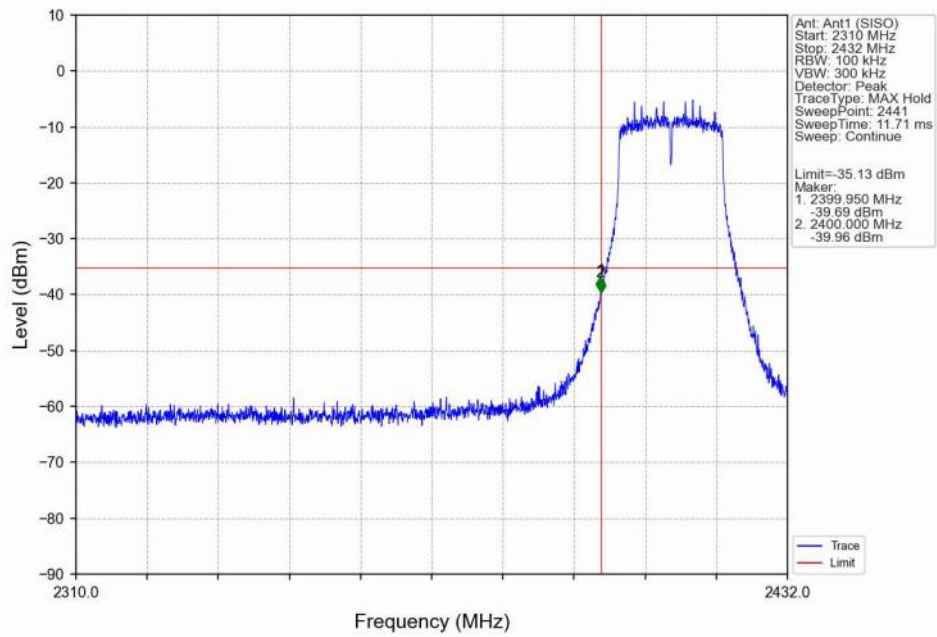
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



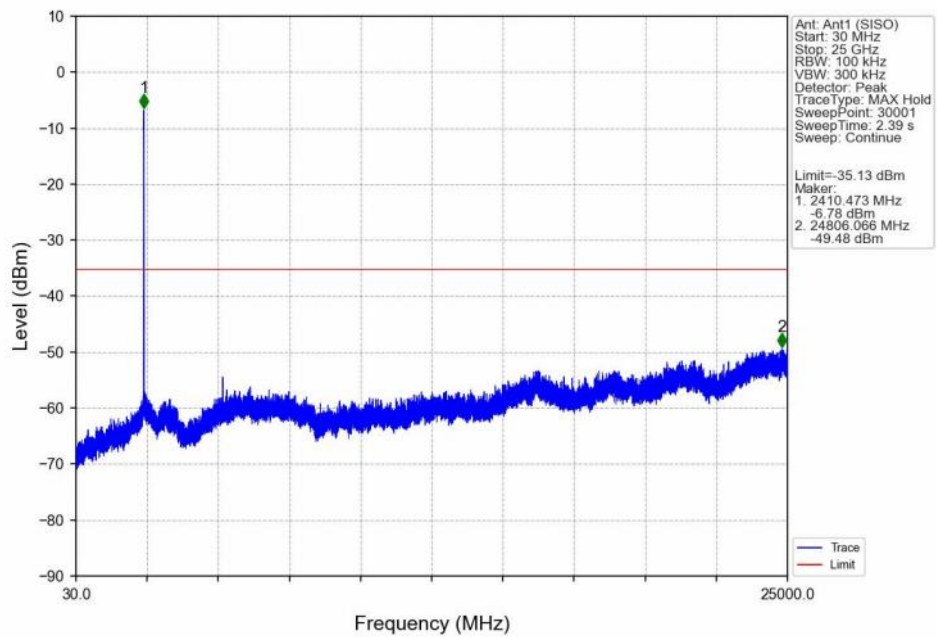
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



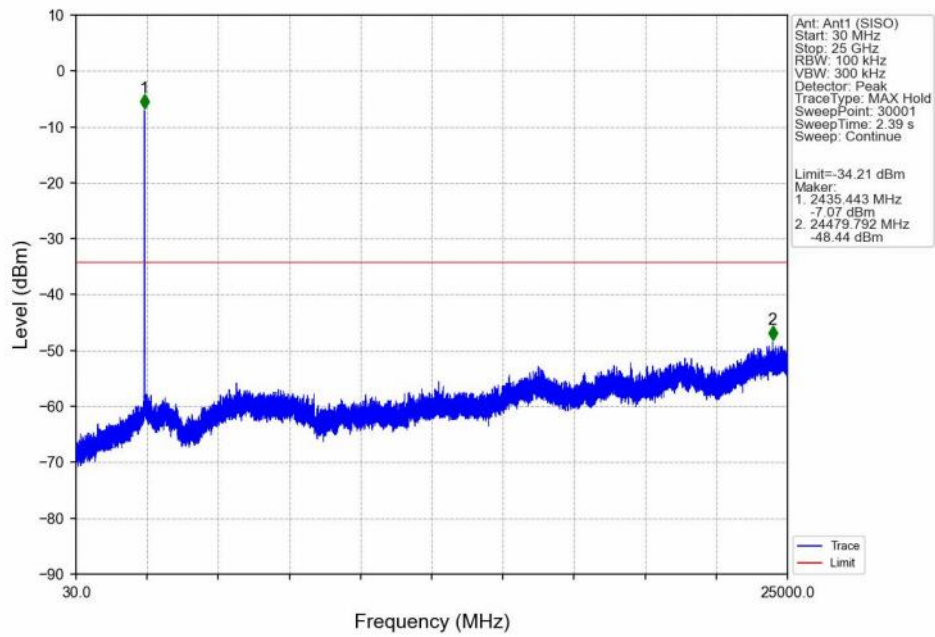
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



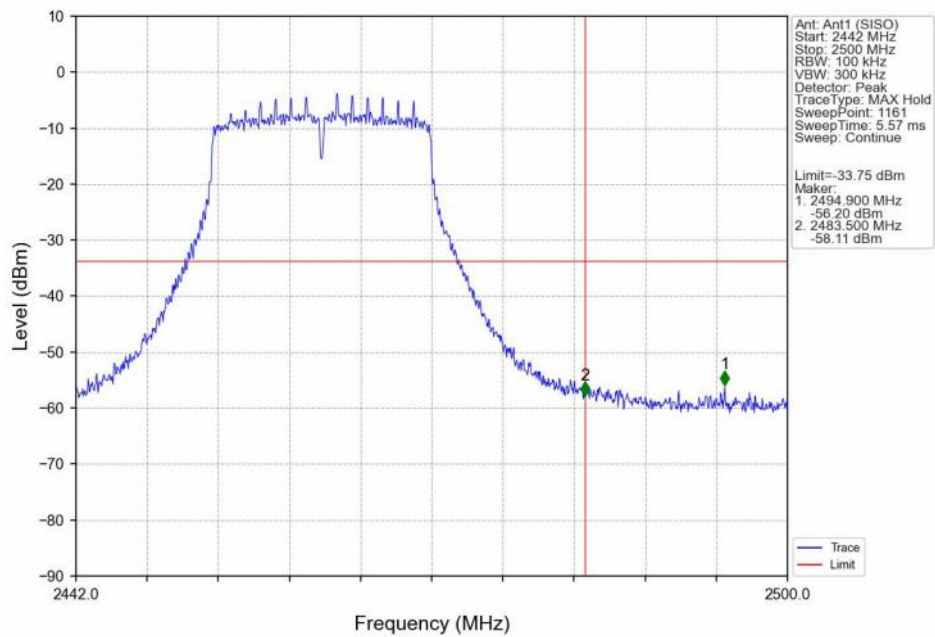
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



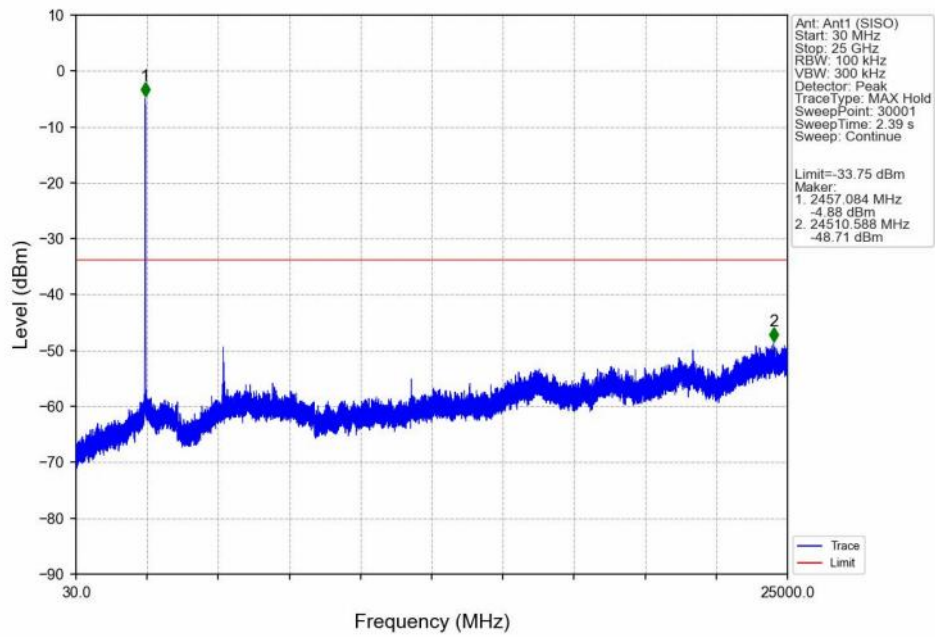
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



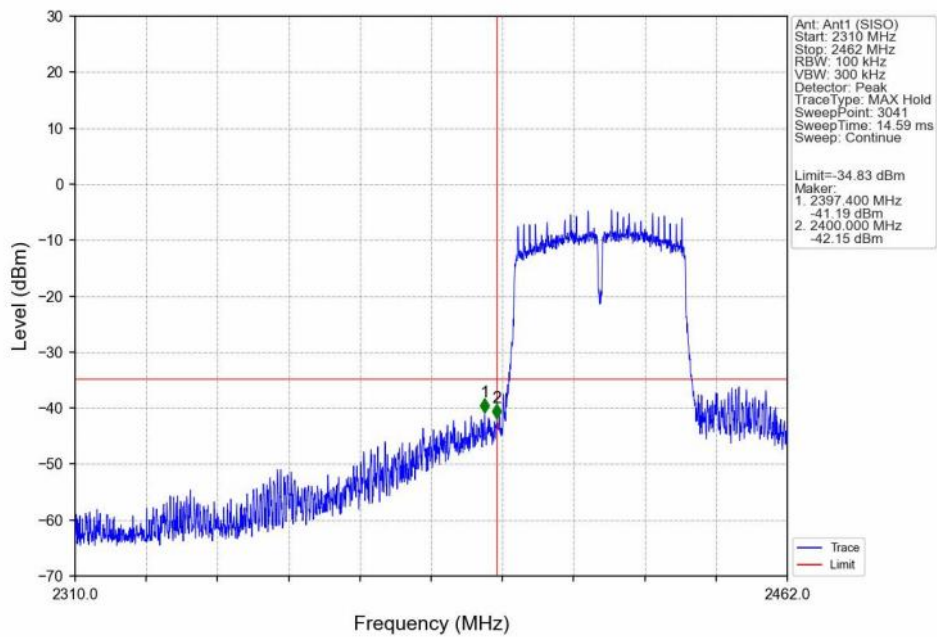
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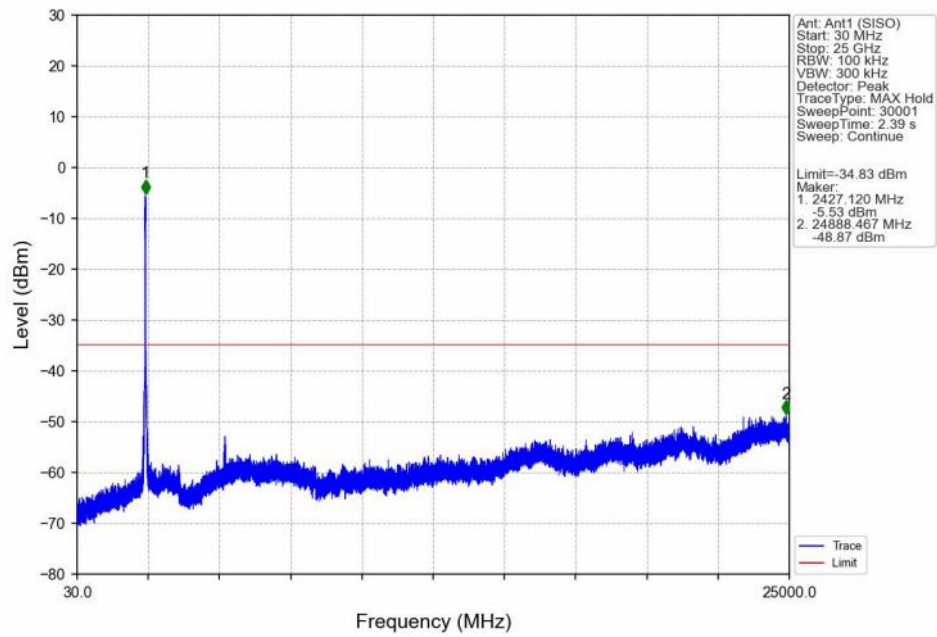
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



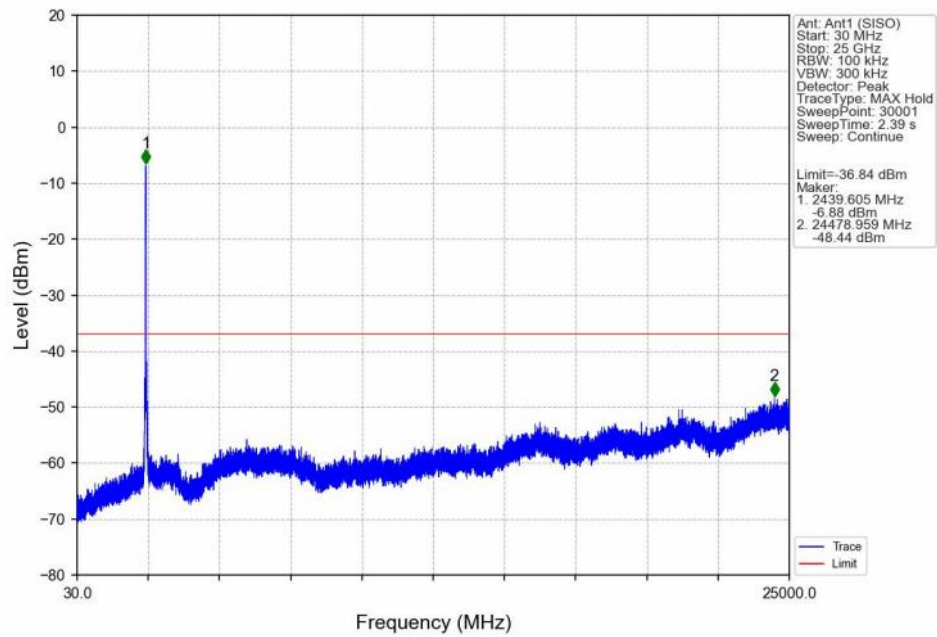
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



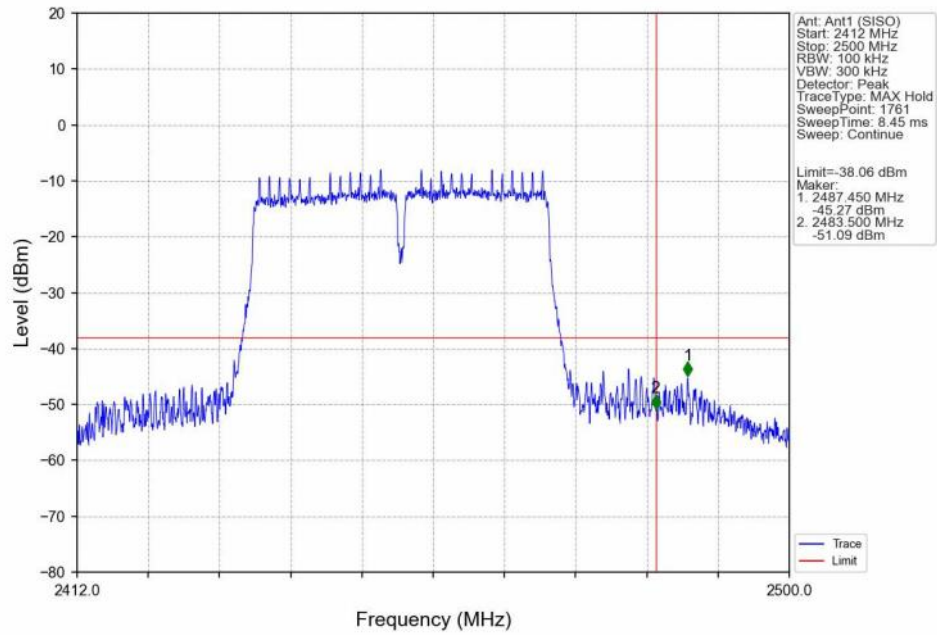
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



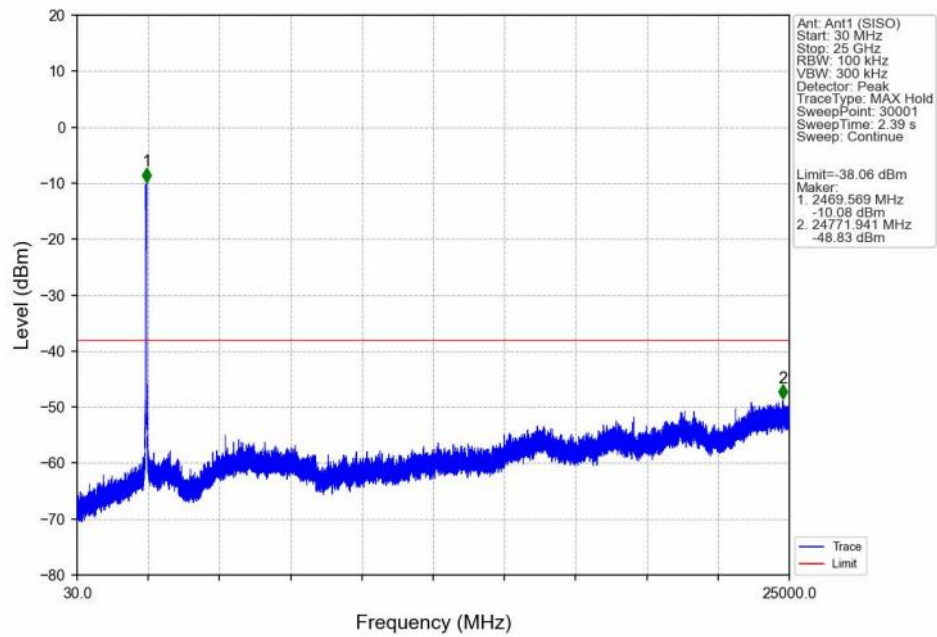
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



-THE END-