

Appendix C

Product Name:	Auto Diagnostic System
Test Model No.:	E81

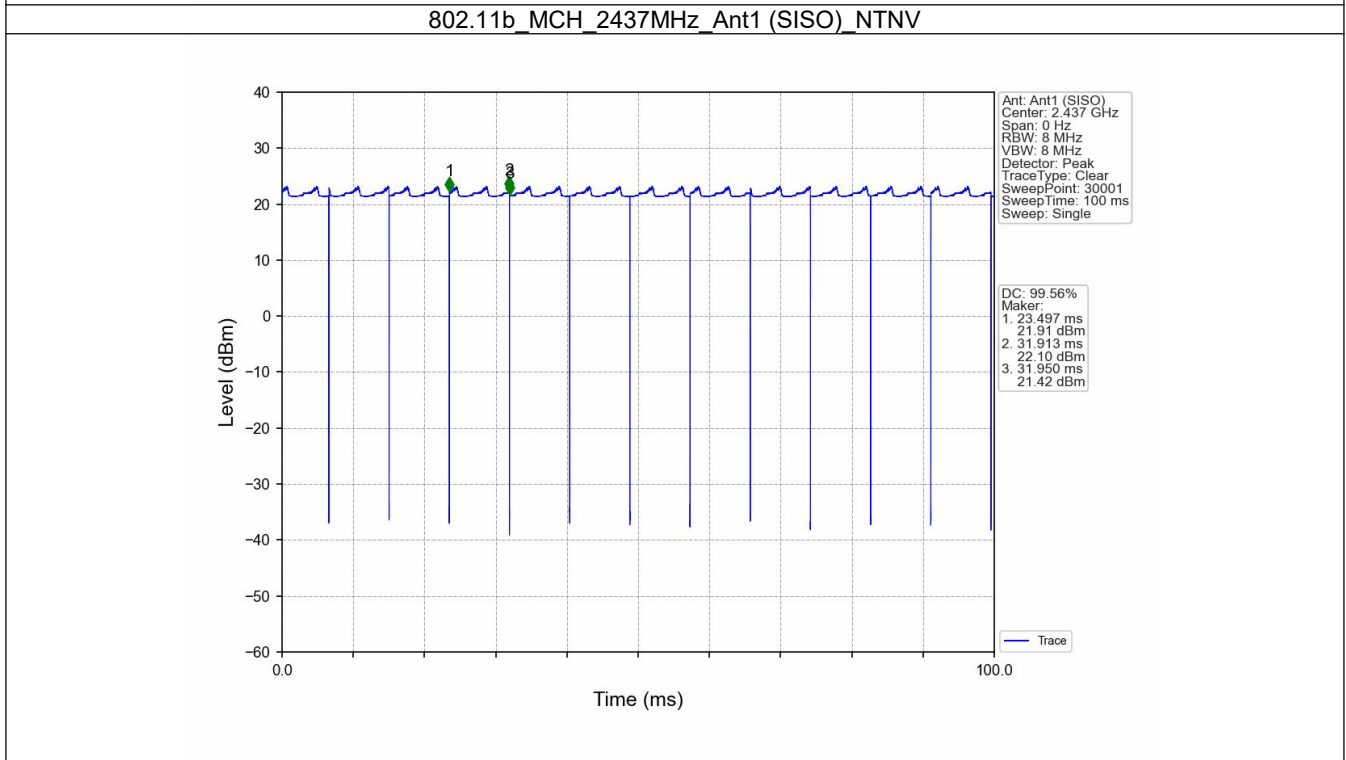
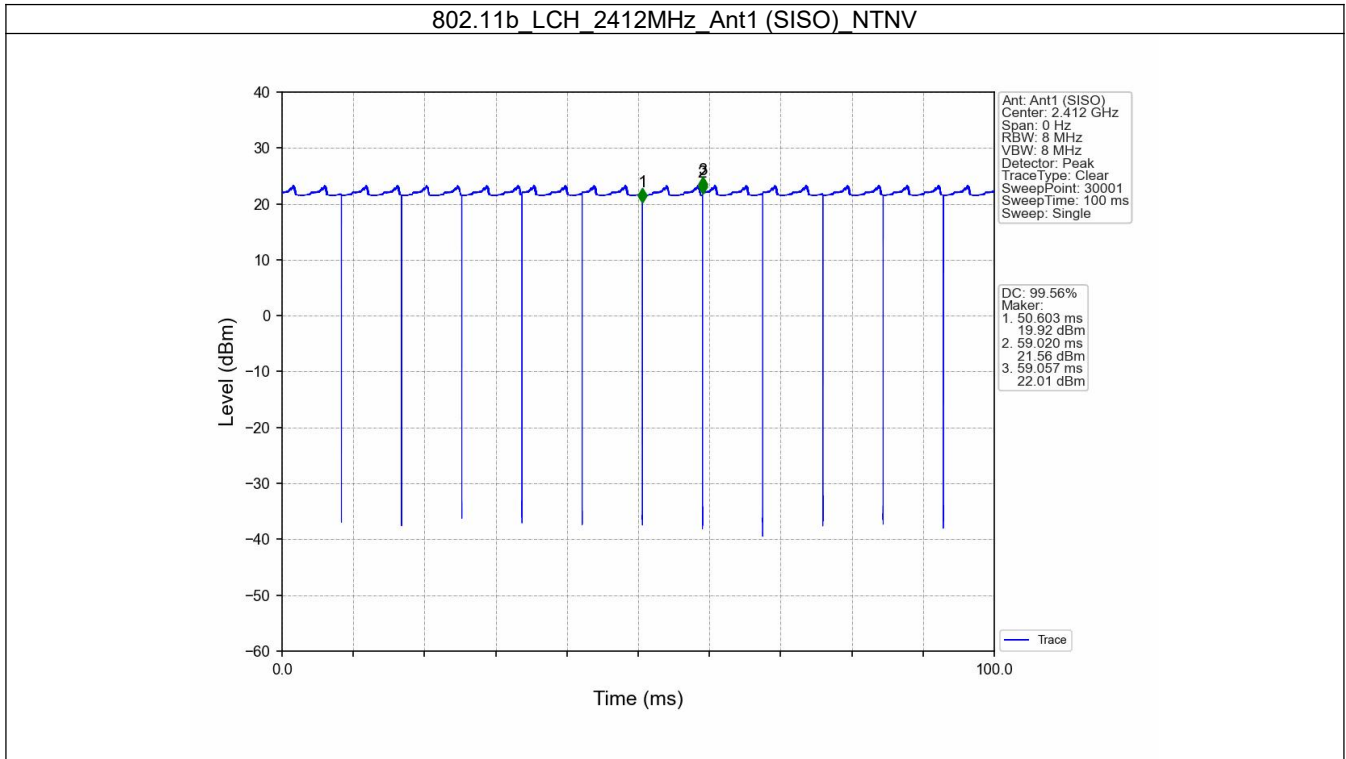
1. Duty Cycle

1.1 Ant1

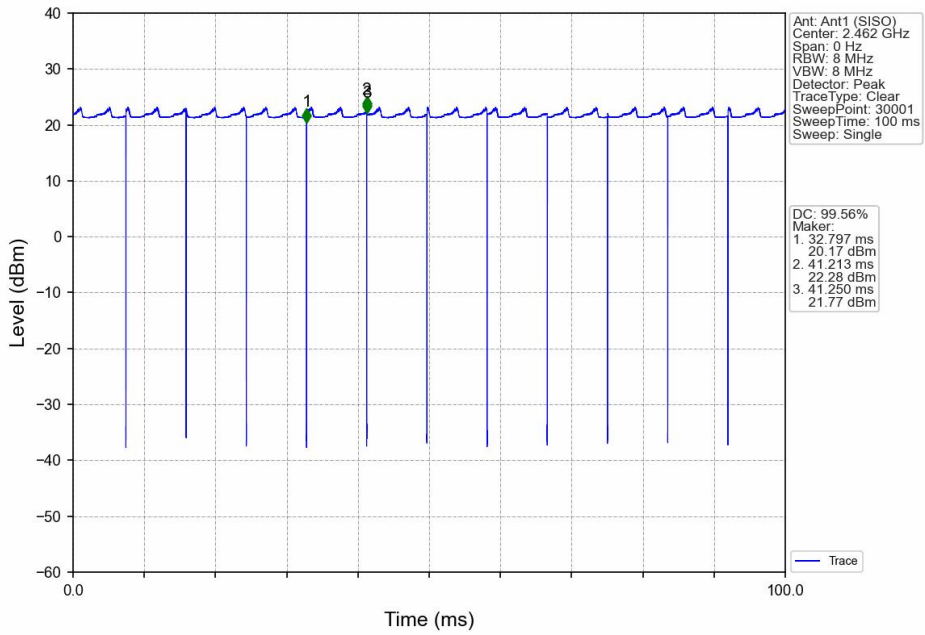
1.1.1 Test Result

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	8.417	8.454	99.56	0.02	0.04
		2437	8.416	8.453	99.56	0.02	0.04
		2462	8.416	8.453	99.56	0.02	0.04
802.11g	SISO	2412	1.397	1.438	97.15	0.13	0.00
		2437	1.398	1.439	97.15	0.13	0.03
		2462	1.398	1.439	97.15	0.13	0.00
802.11n (HT20)	SISO	2412	1.309	1.351	96.89	0.14	0.07
		2437	1.309	1.351	96.89	0.14	0.07
		2462	1.309	1.351	96.89	0.14	0.03
802.11n (HT40)	SISO	2422	0.665	0.766	86.81	0.61	0.03
		2437	0.665	0.766	86.81	0.61	0.04
		2452	0.664	0.767	86.57	0.63	0.03

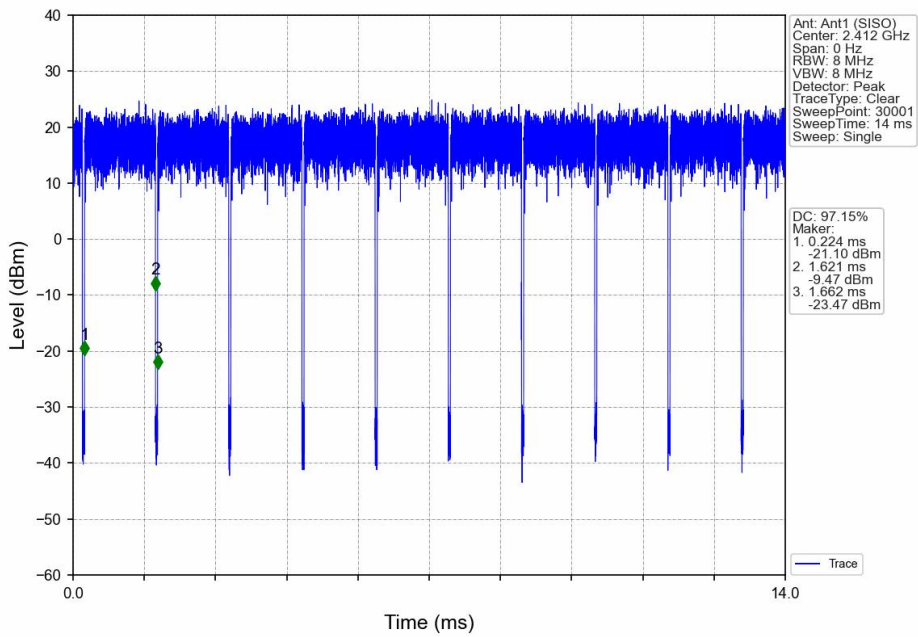
1.1.2 Test Graph



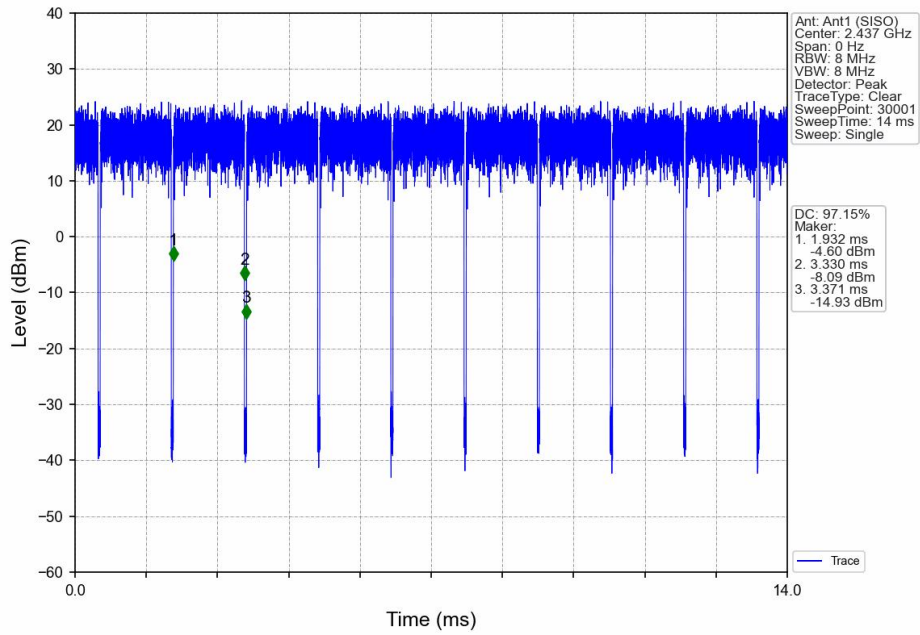
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



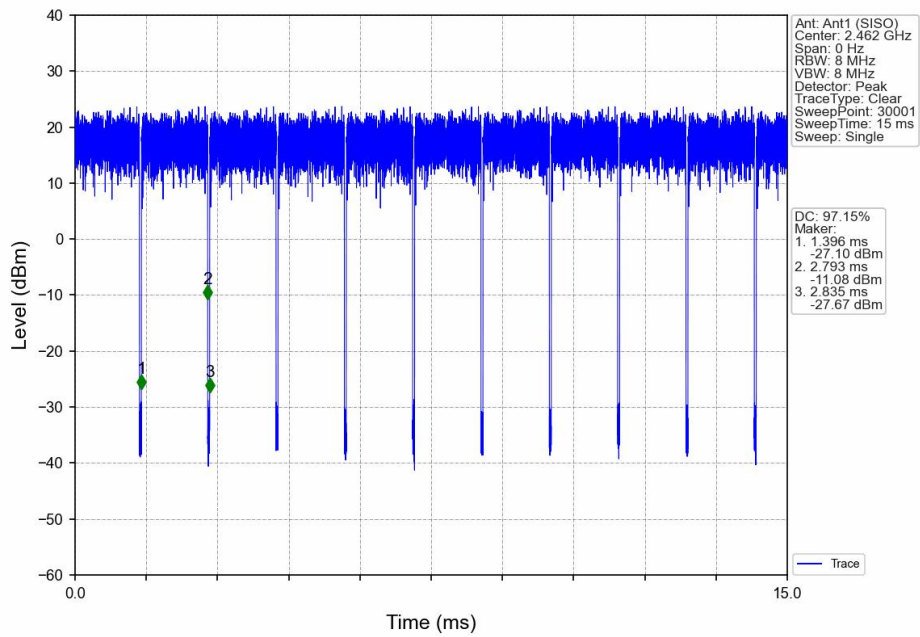
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



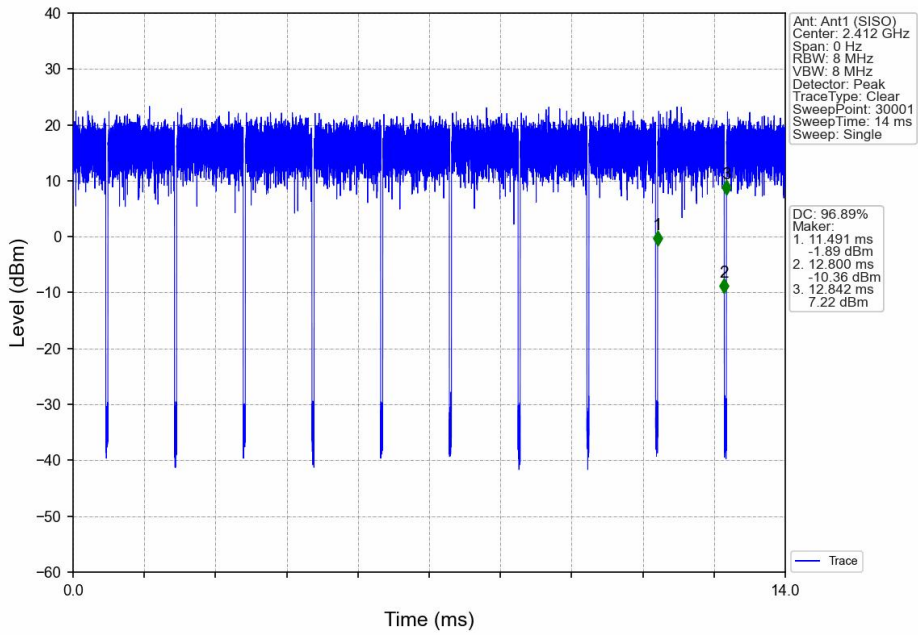
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



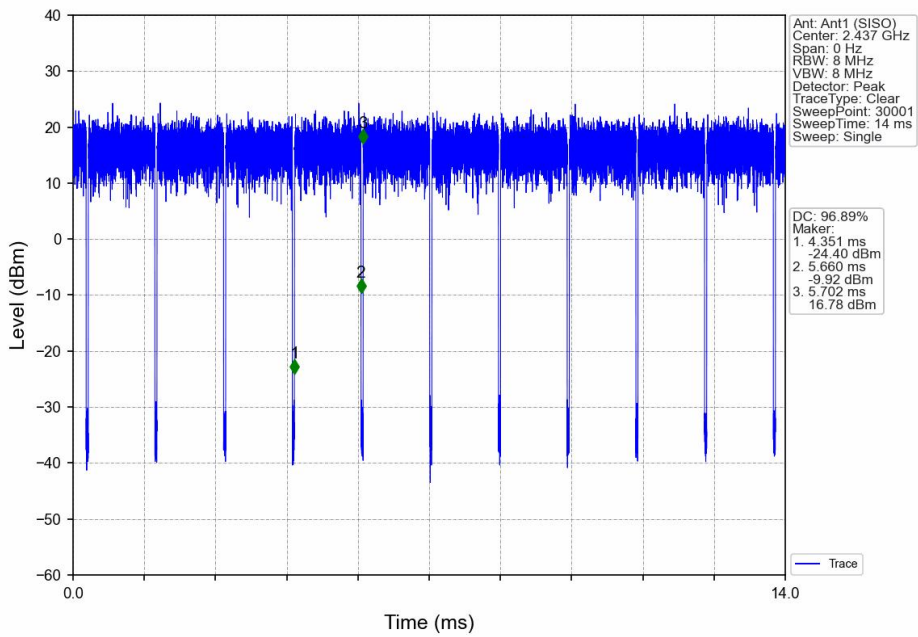
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



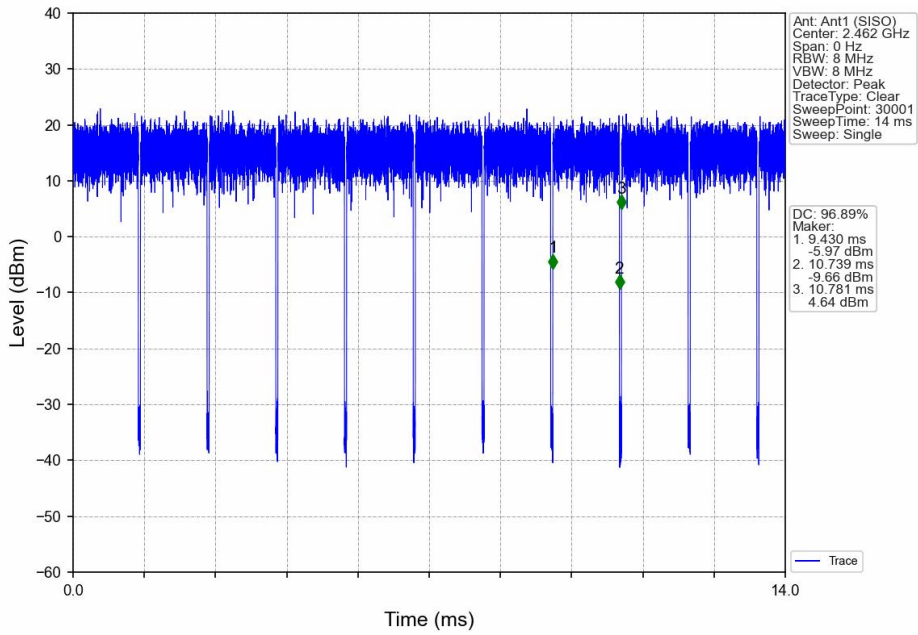
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



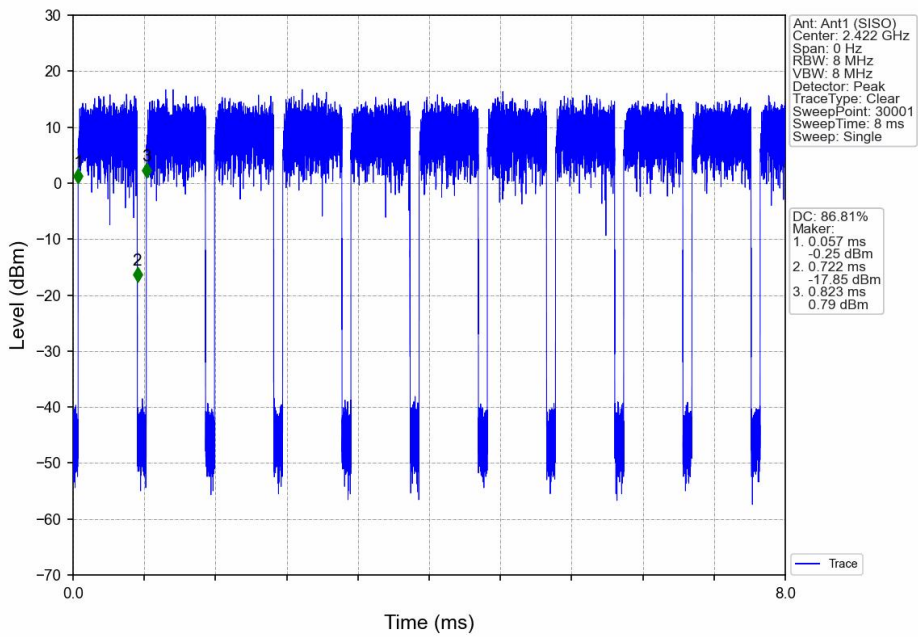
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



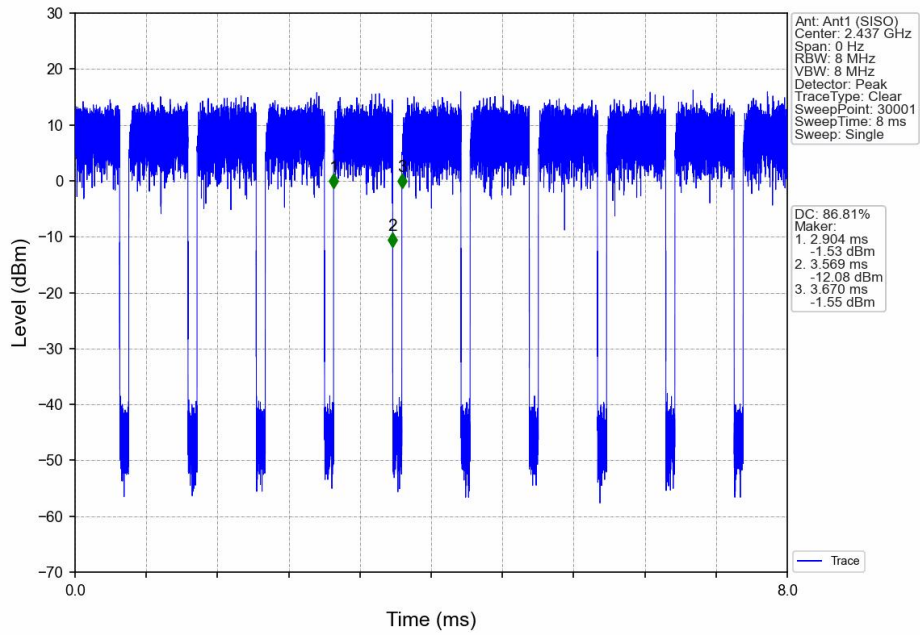
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



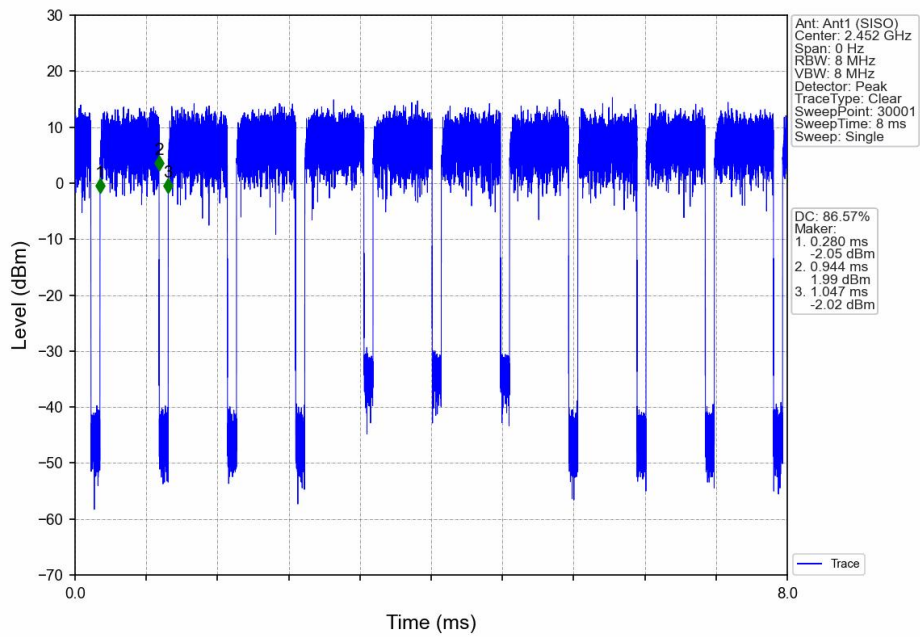
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1(SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1(SISO)_NTNV



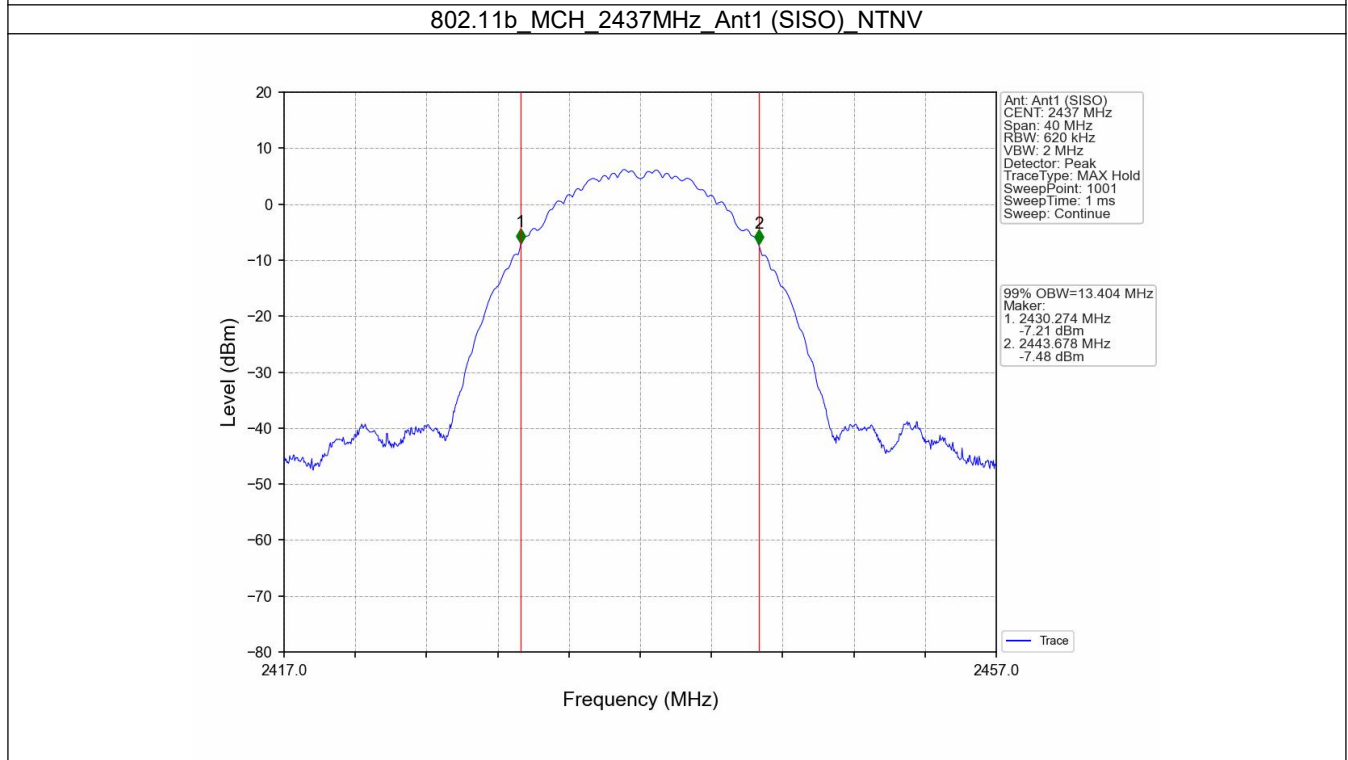
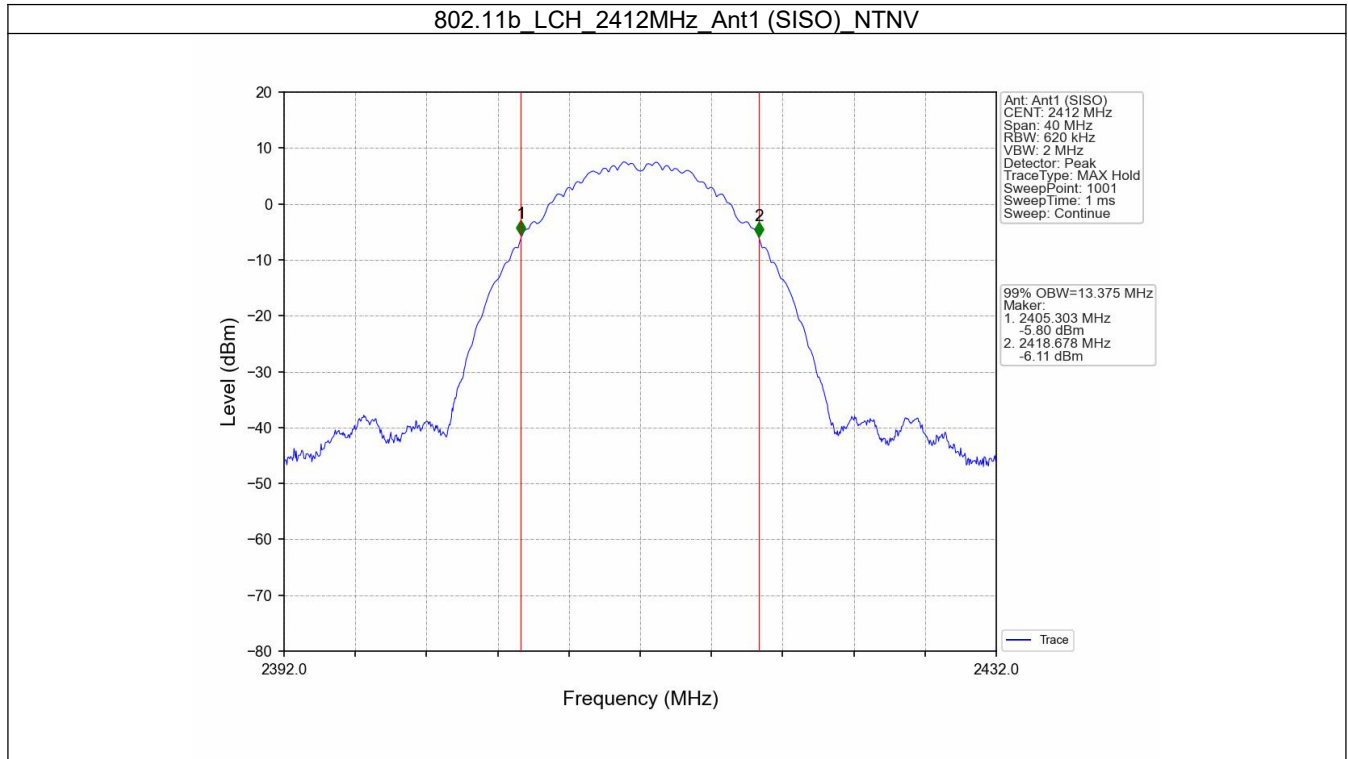
2. Bandwidth

2.1 OBW

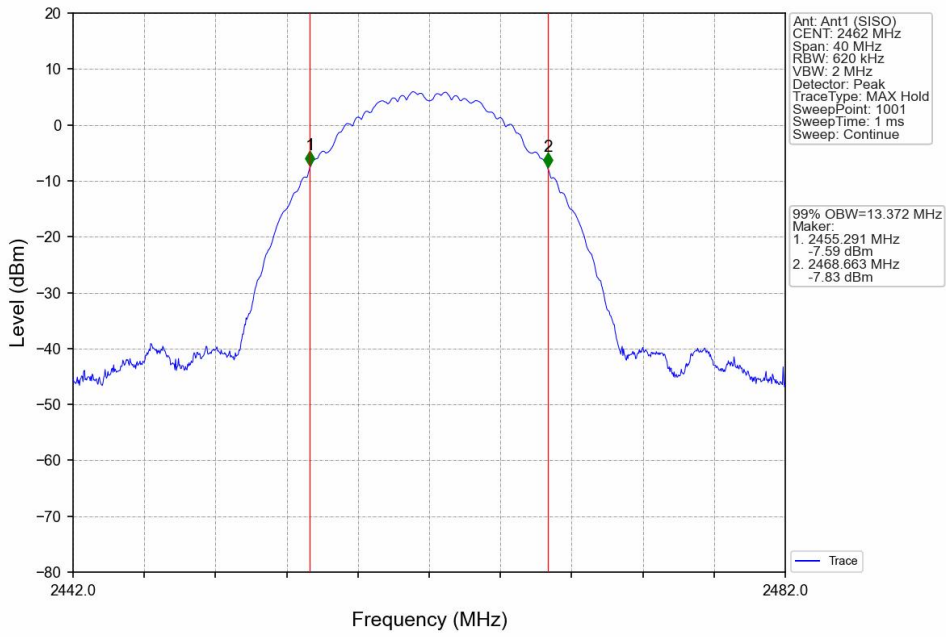
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.375	Pass
		2437	1	13.404	Pass
		2462	1	13.372	Pass
802.11g	SISO	2412	1	17.299	Pass
		2437	1	17.357	Pass
		2462	1	17.356	Pass
802.11n (HT20)	SISO	2412	1	18.157	Pass
		2437	1	18.150	Pass
		2462	1	18.120	Pass
802.11n (HT40)	SISO	2422	1	36.465	Pass
		2437	1	36.356	Pass
		2452	1	36.420	Pass

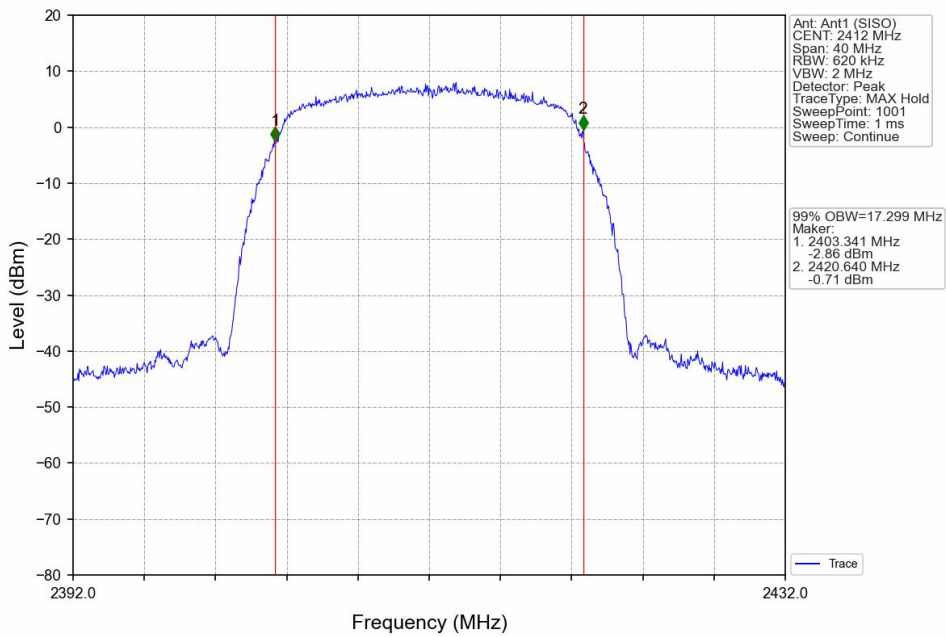
2.1.2 Test Graph



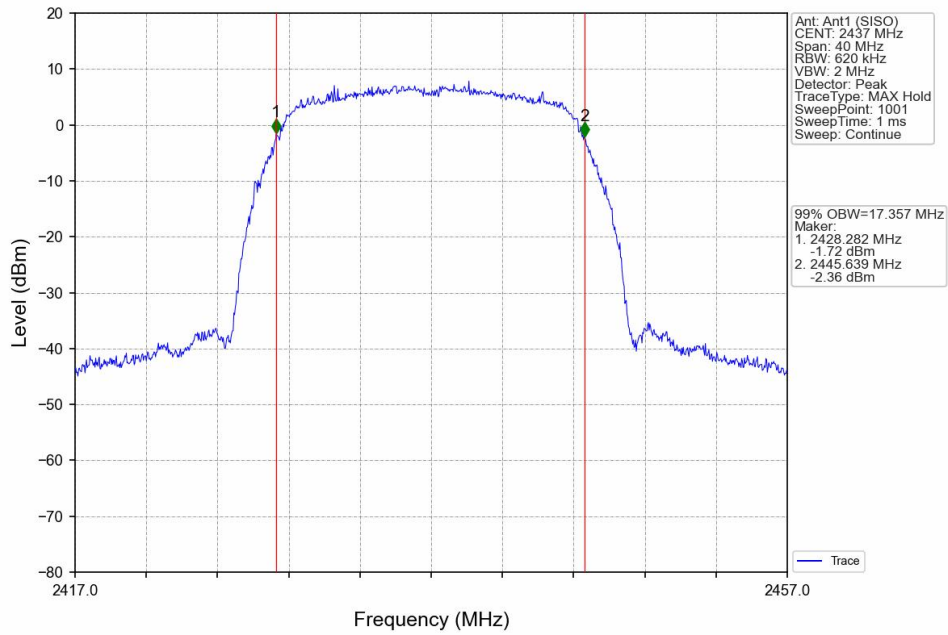
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



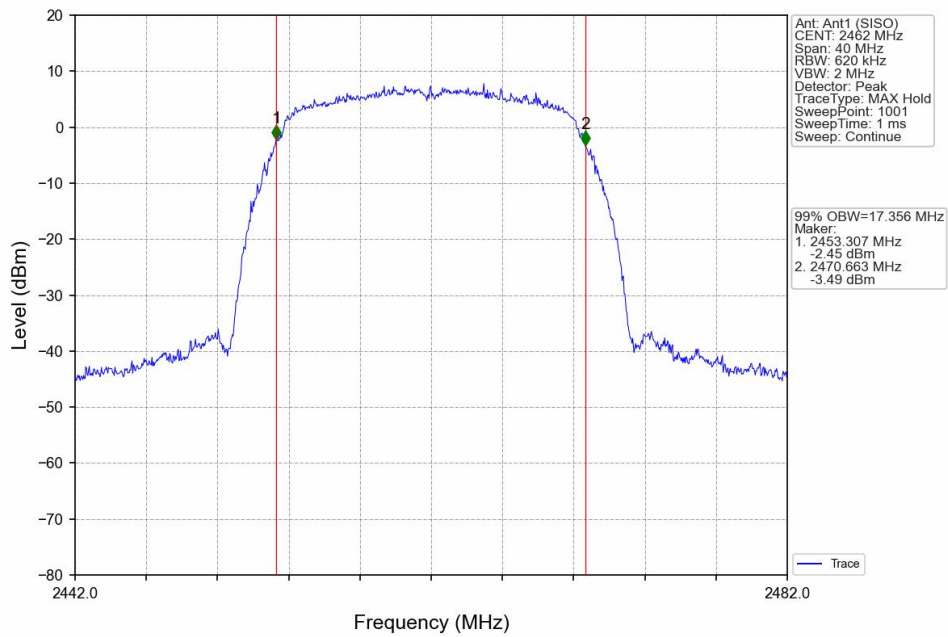
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



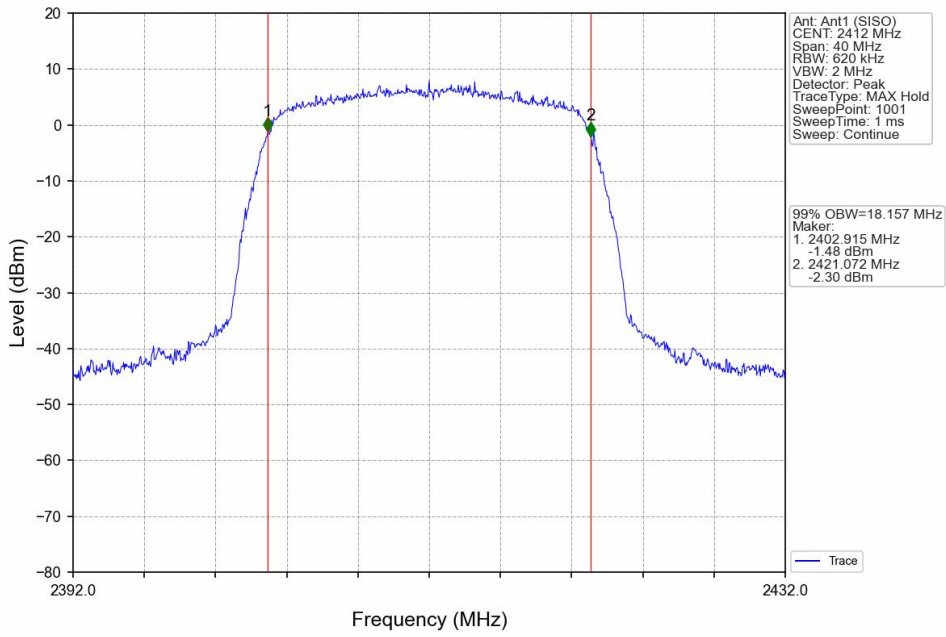
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



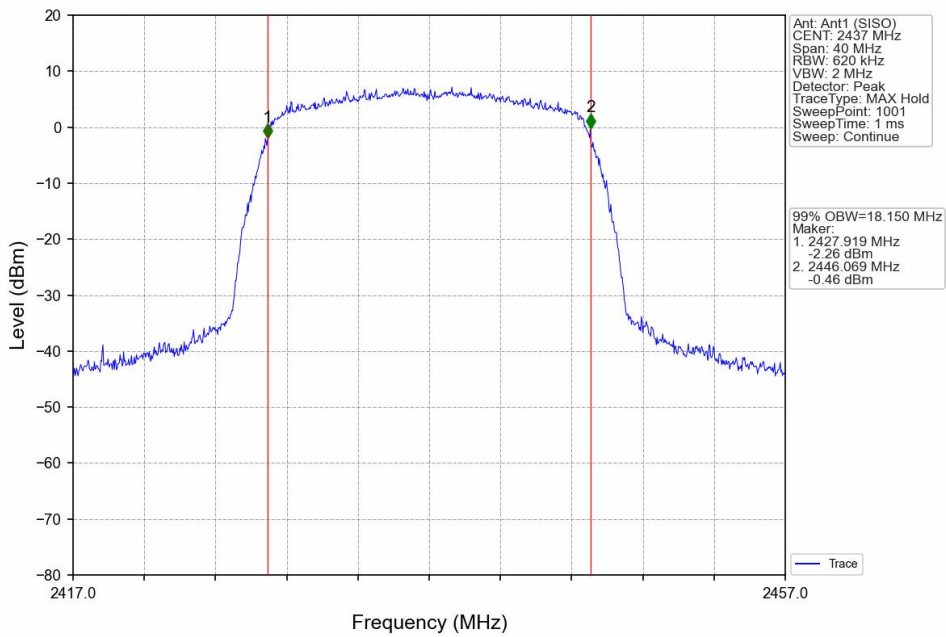
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



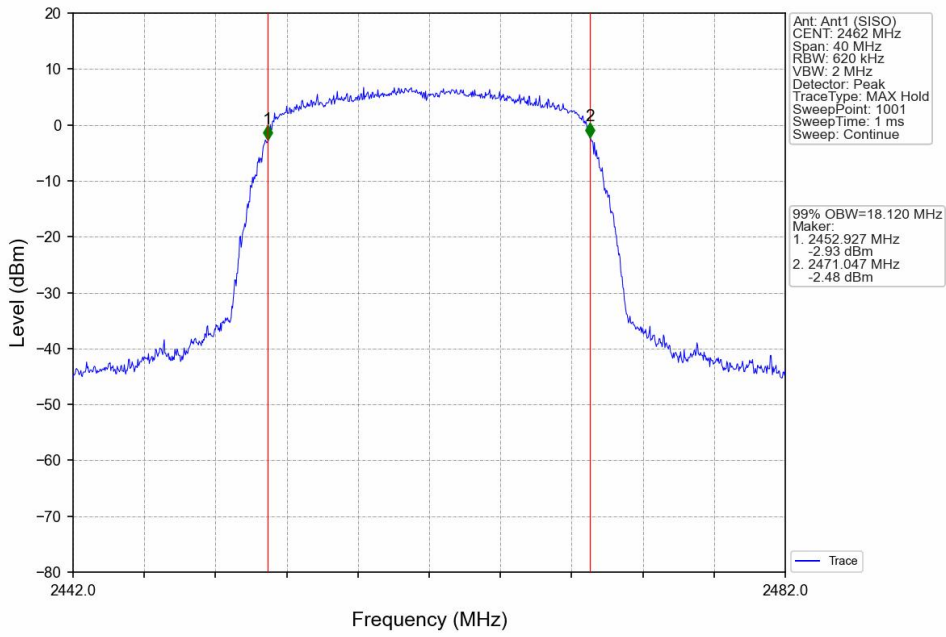
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



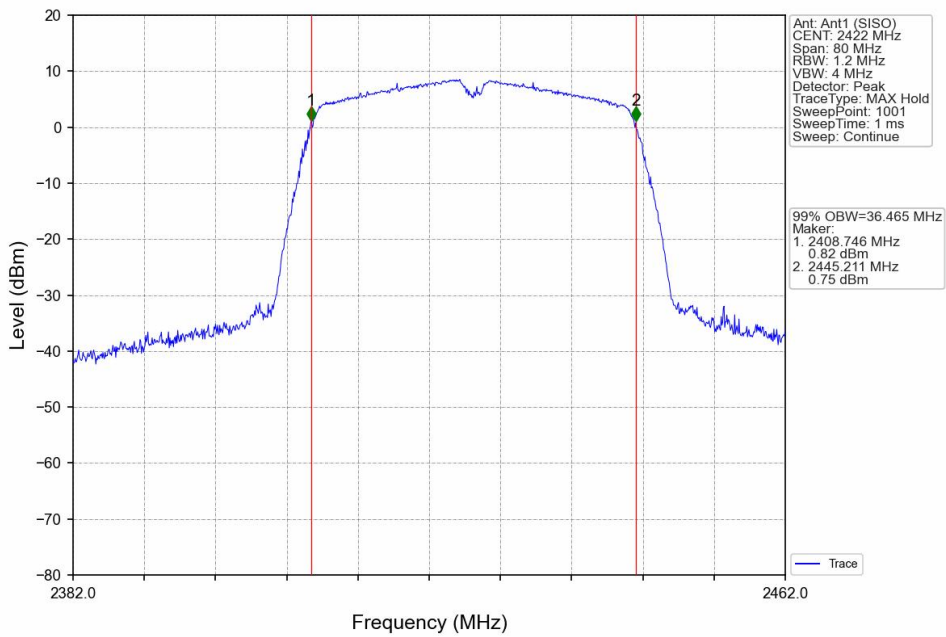
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



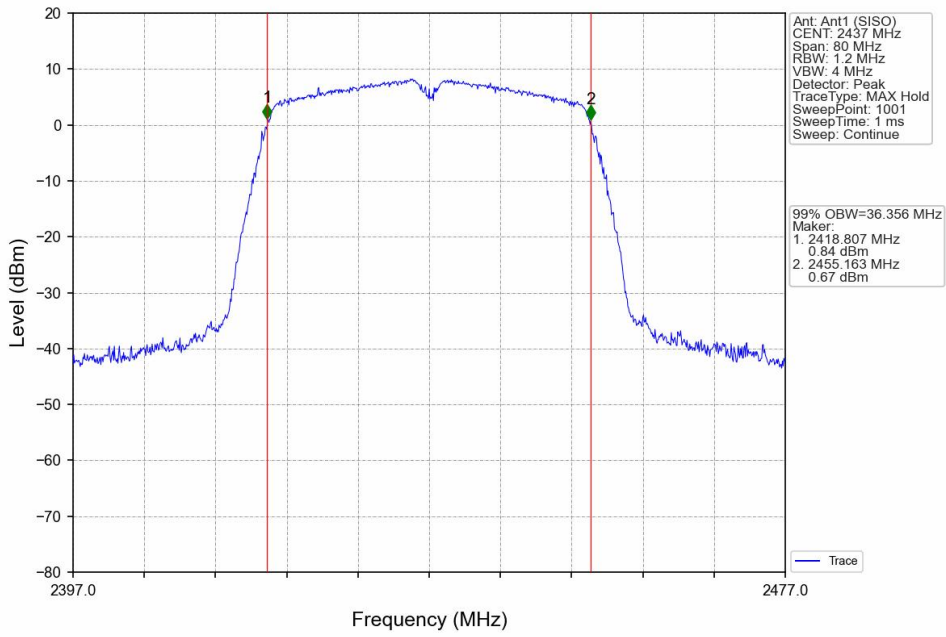
802.11n(HT20) HCH_2462MHz_Ant1 (SISO) NTN



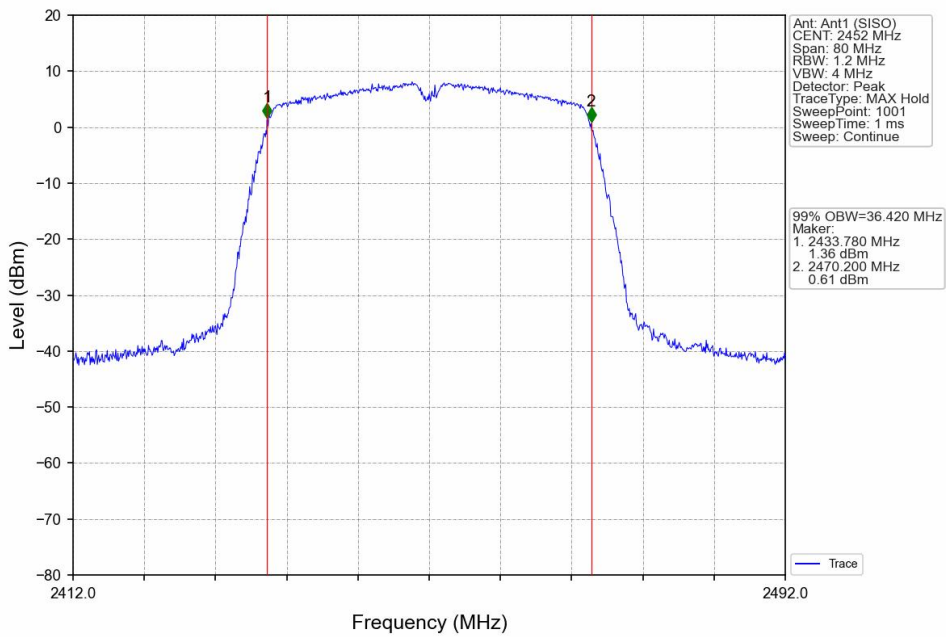
802.11n(HT40) LCH_2422MHz_Ant1 (SISO) NTN



802.11n(HT40)_MCH_2437MHz_Ant1(SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1(SISO)_NTNV

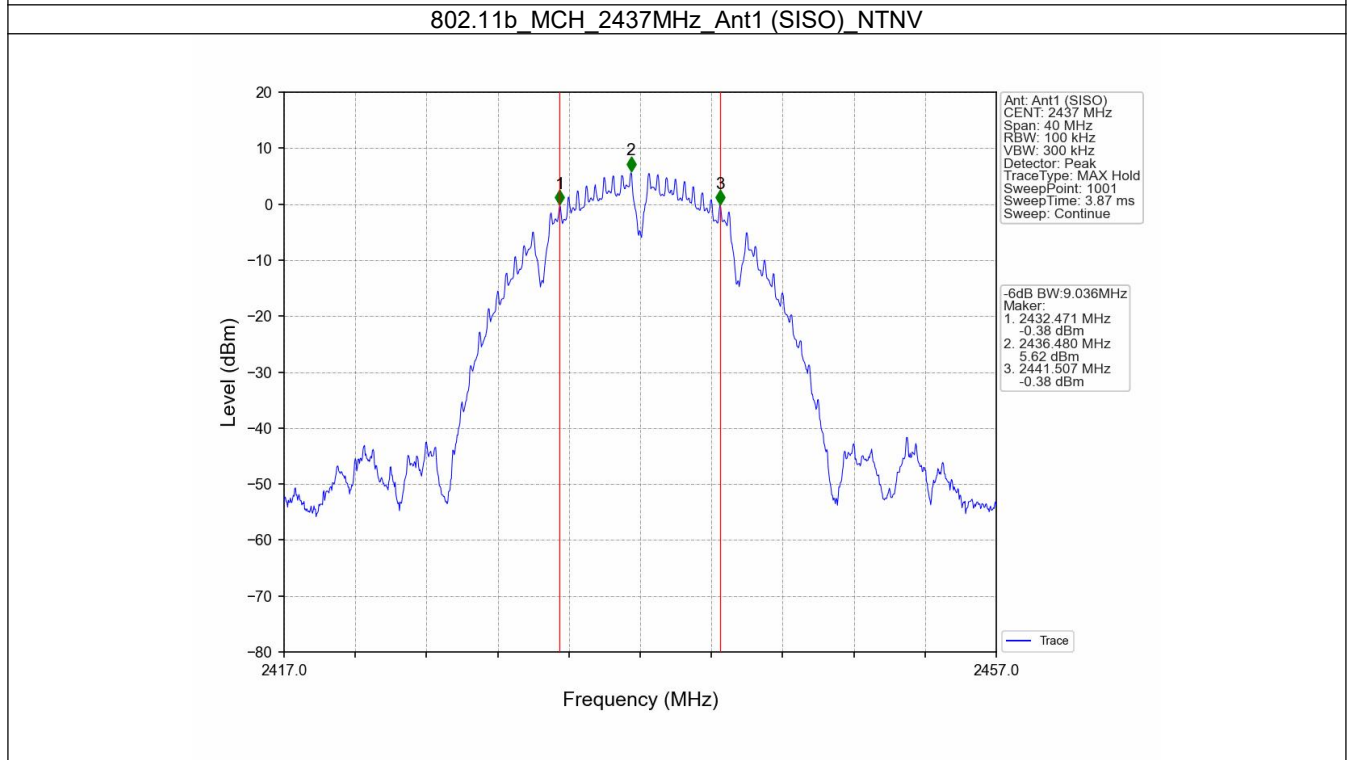
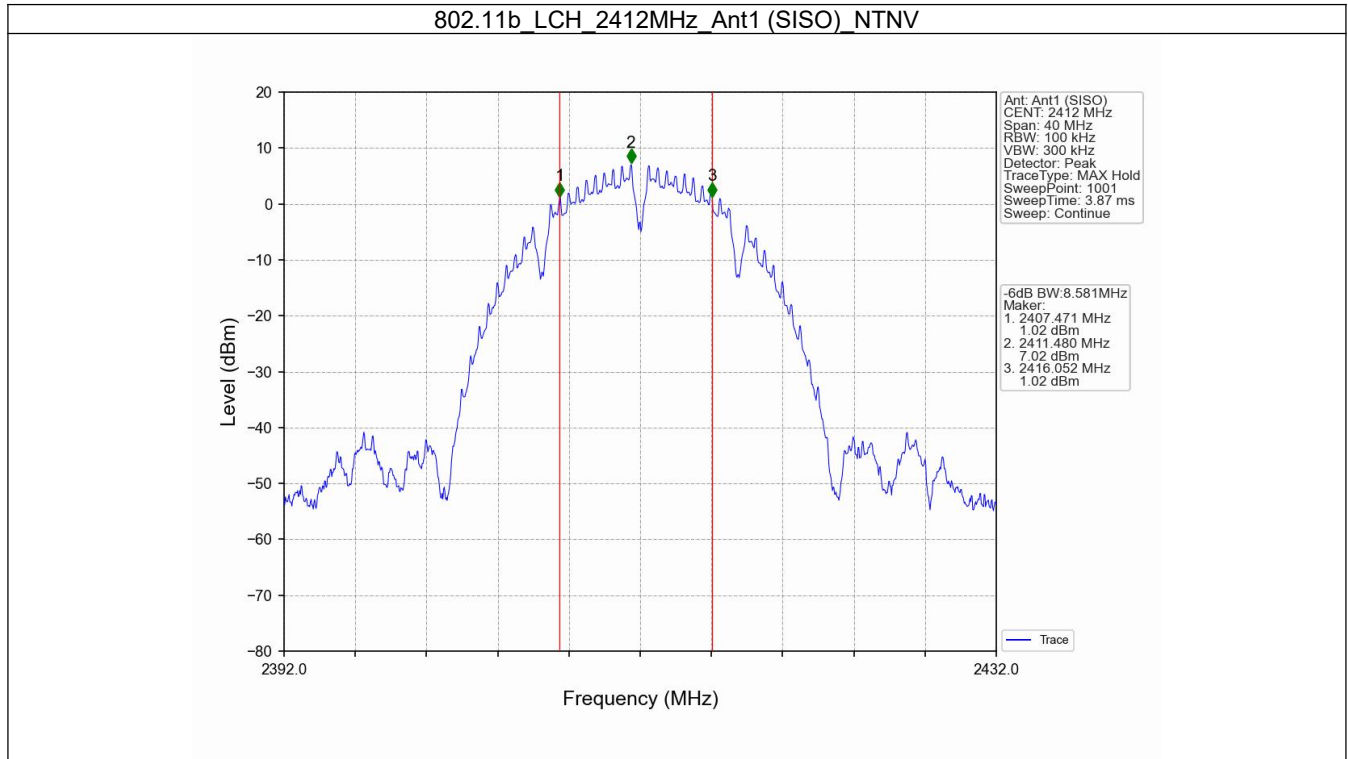


2.2 6dB BW

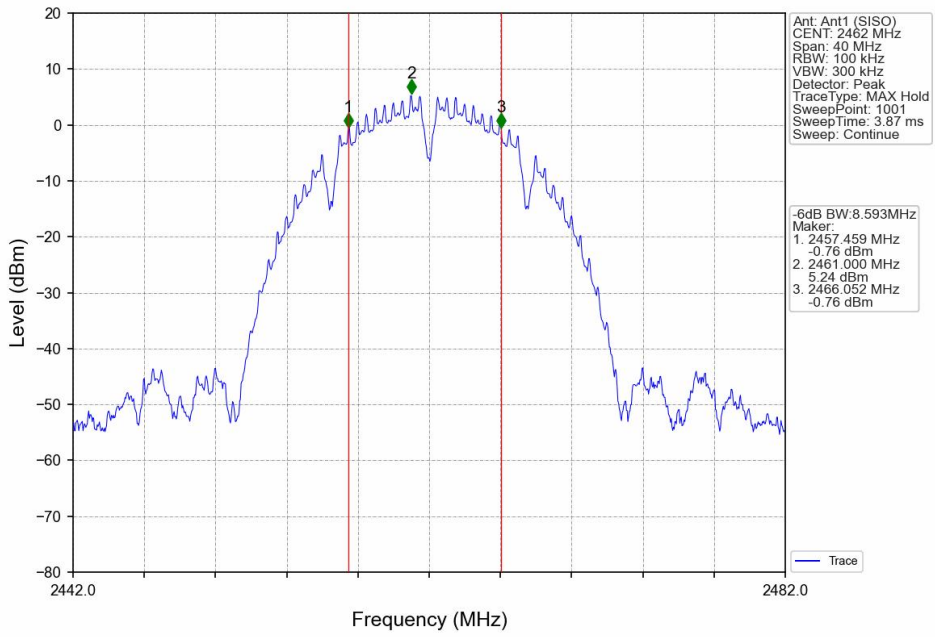
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.581	≥ 0.5	Pass
		2437	1	9.036	≥ 0.5	Pass
		2462	1	8.593	≥ 0.5	Pass
802.11g	SISO	2412	1	15.156	≥ 0.5	Pass
		2437	1	15.159	≥ 0.5	Pass
		2462	1	15.164	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.154	≥ 0.5	Pass
		2437	1	15.183	≥ 0.5	Pass
		2462	1	15.159	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.136	≥ 0.5	Pass
		2437	1	35.145	≥ 0.5	Pass
		2452	1	35.155	≥ 0.5	Pass

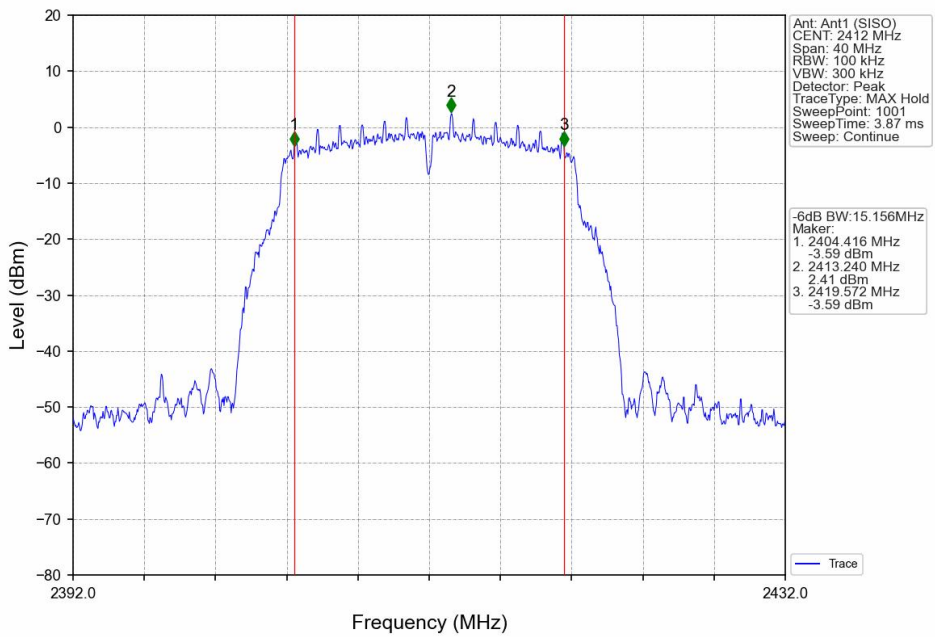
2.2.2 Test Graph



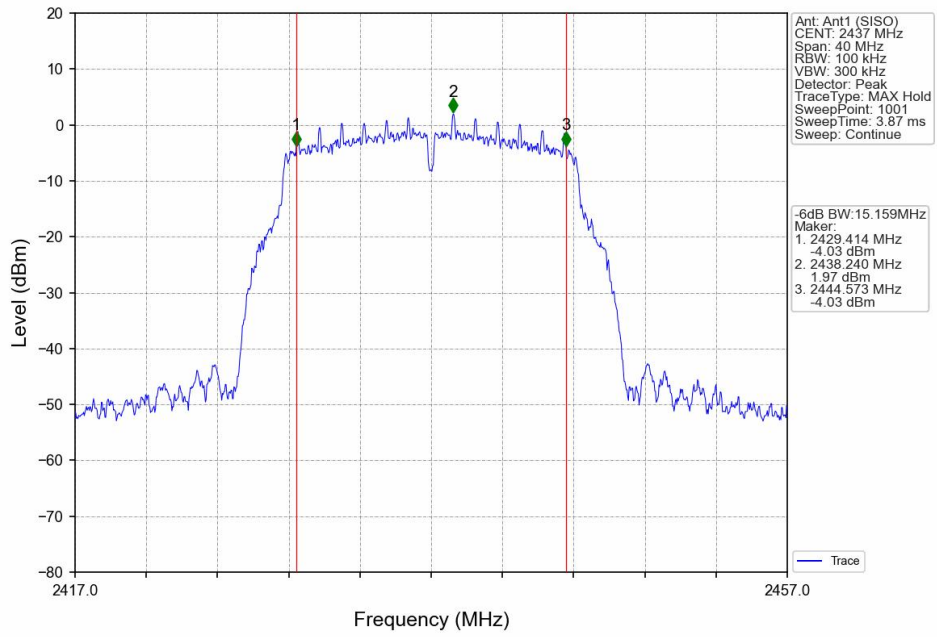
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



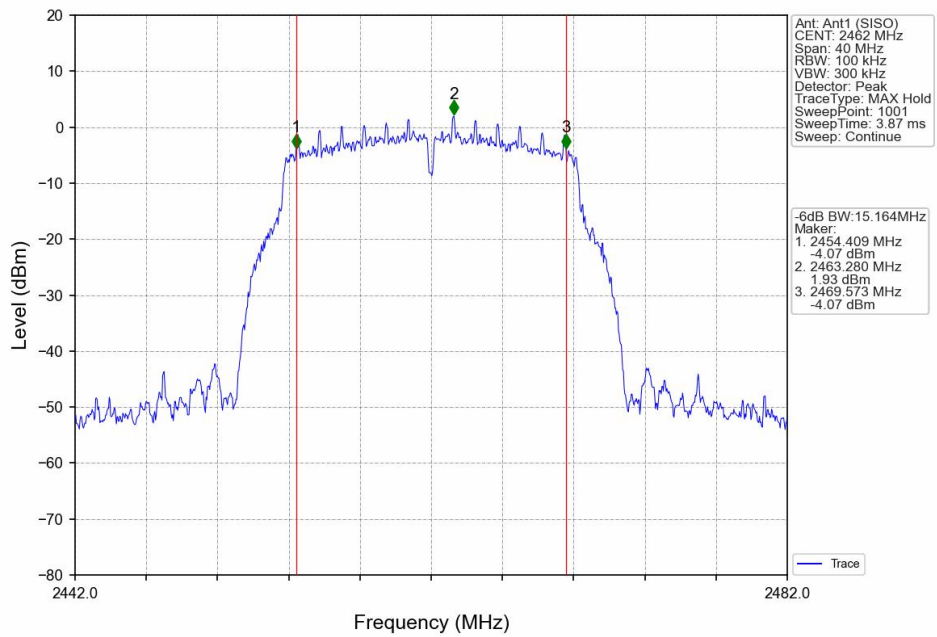
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



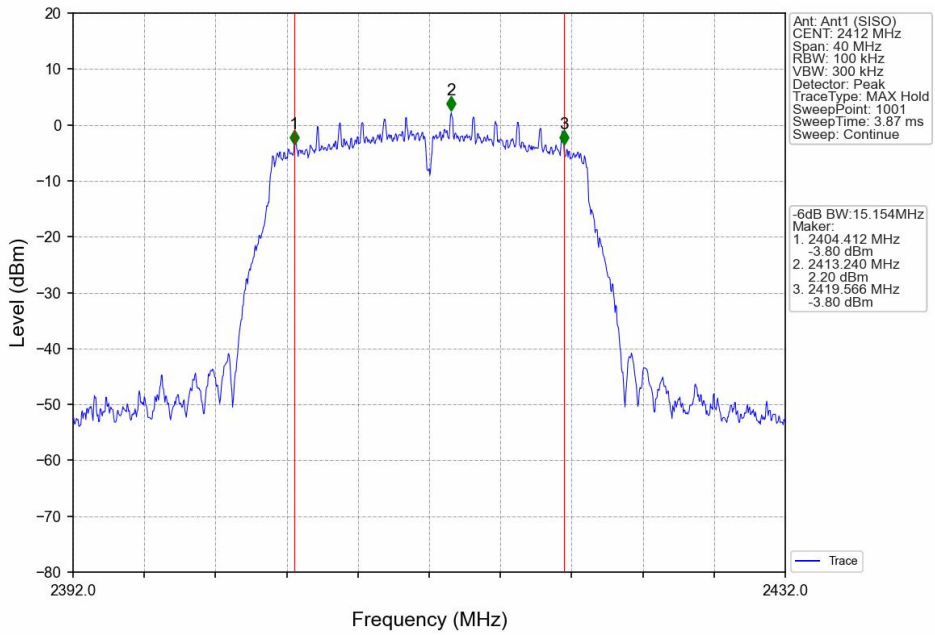
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



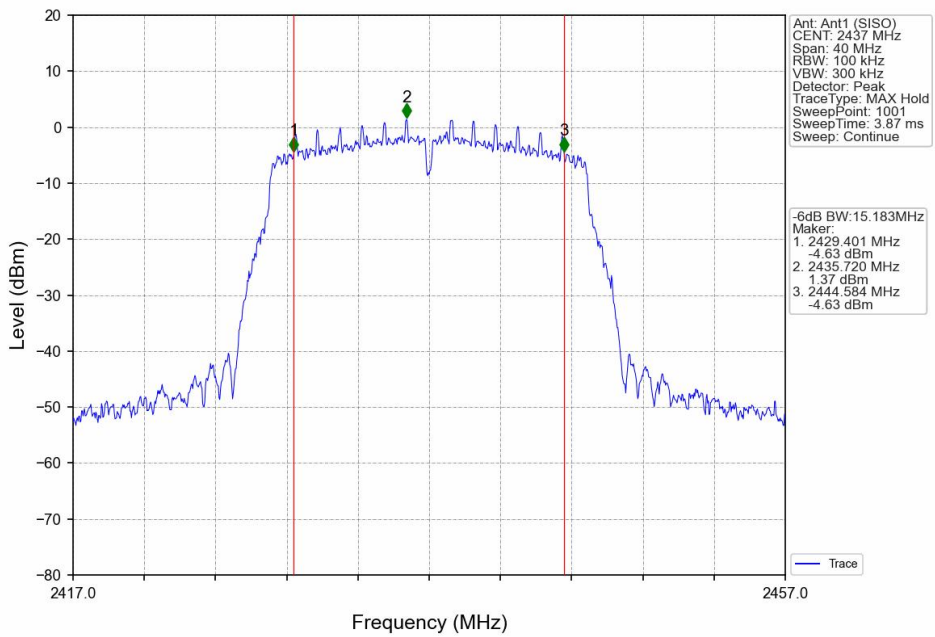
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



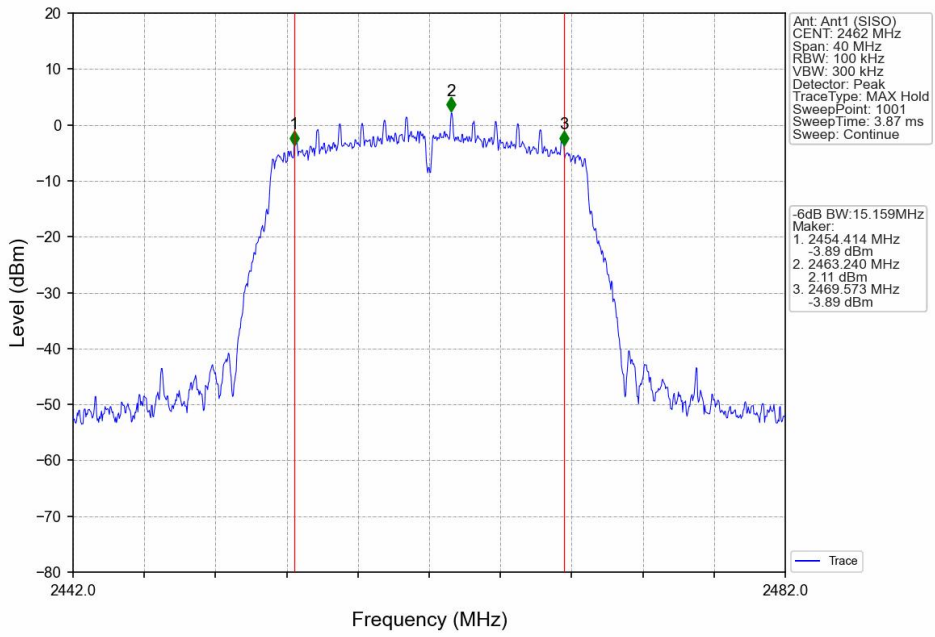
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



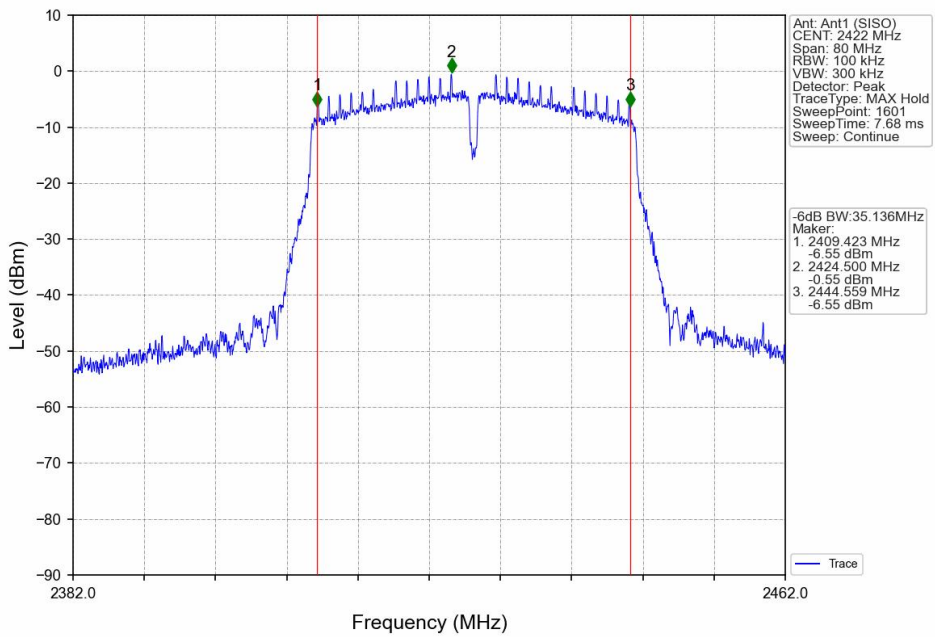
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



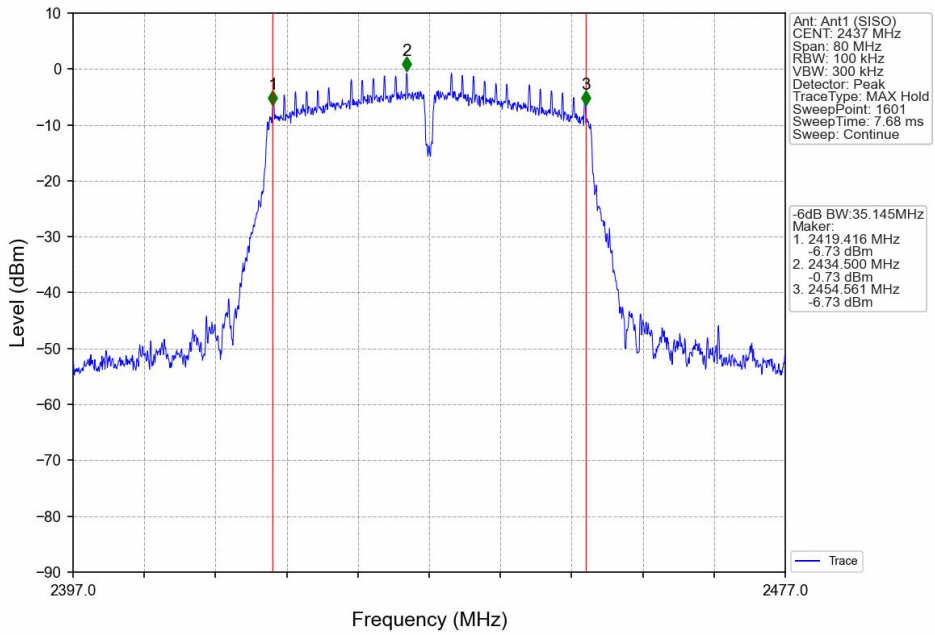
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



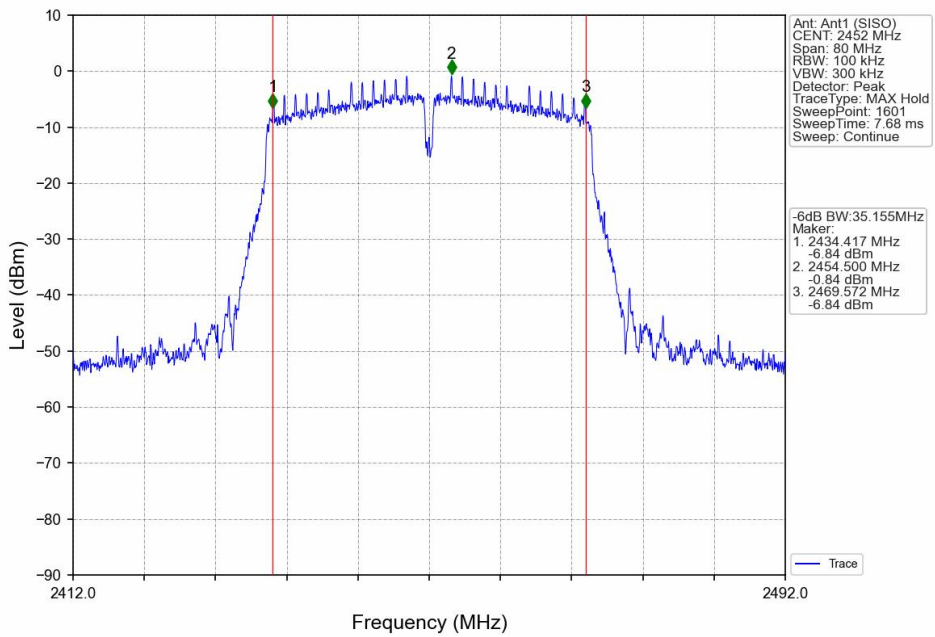
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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 Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	20.53	<=30	Pass
		2437	20.39	<=30	Pass
		2462	20.43	<=30	Pass
802.11g	SISO	2412	24.14	<=30	Pass
		2437	23.96	<=30	Pass
		2462	23.92	<=30	Pass
802.11n (HT20)	SISO	2412	22.85	<=30	Pass
		2437	22.29	<=30	Pass
		2462	22.51	<=30	Pass
802.11n (HT40)	SISO	2422	19.95	<=30	Pass
		2437	18.93	<=30	Pass
		2452	18.16	<=30	Pass

Note1: Antenna Gain: Ant1: 2.21dBi;

4. Maximum Power Spectral Density

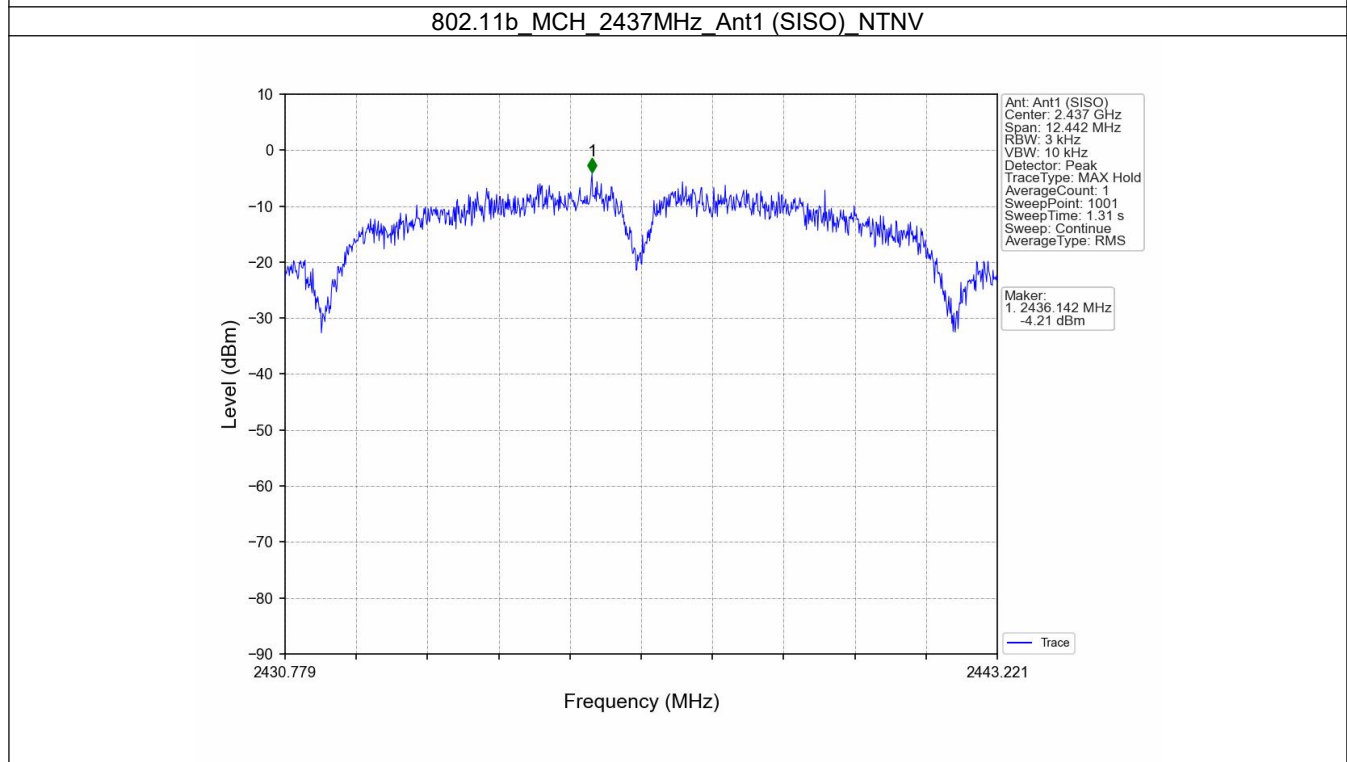
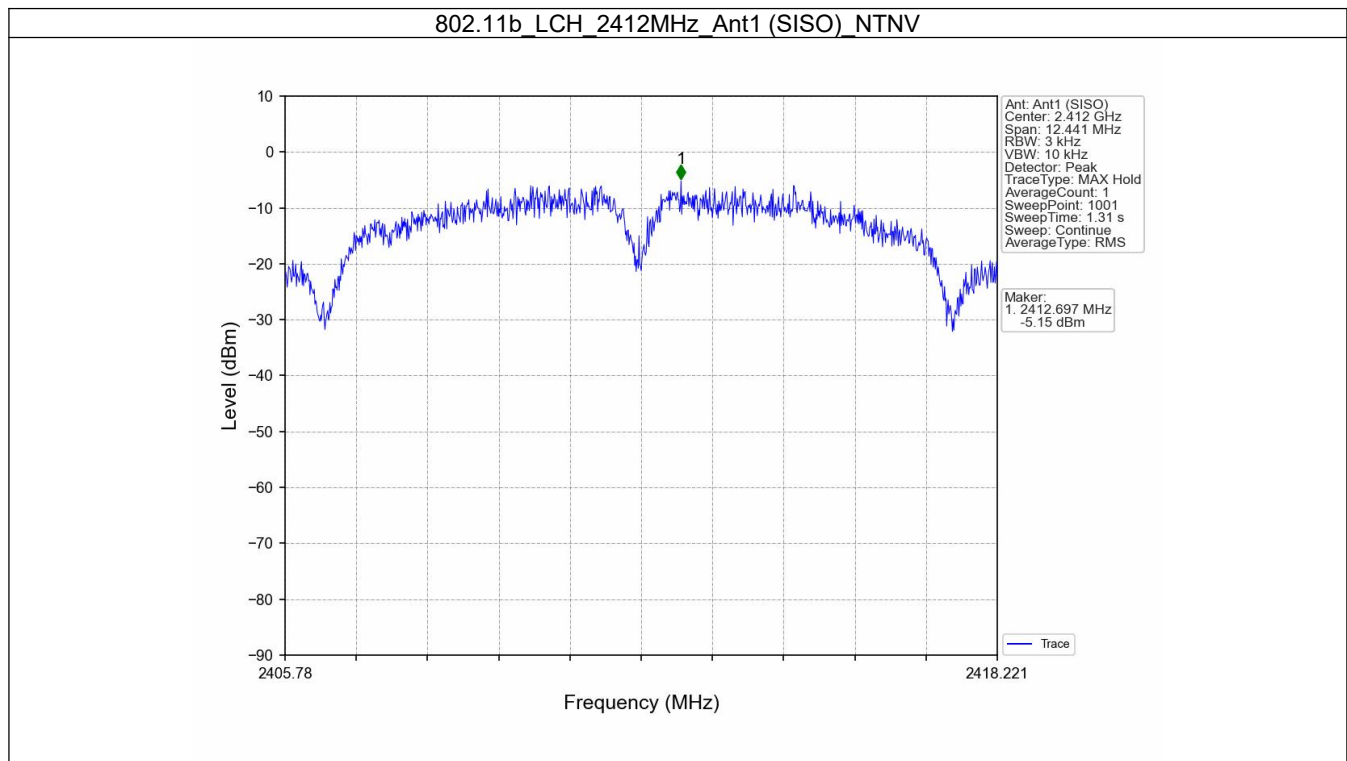
4.1 PSD

4.1.1 Test Result

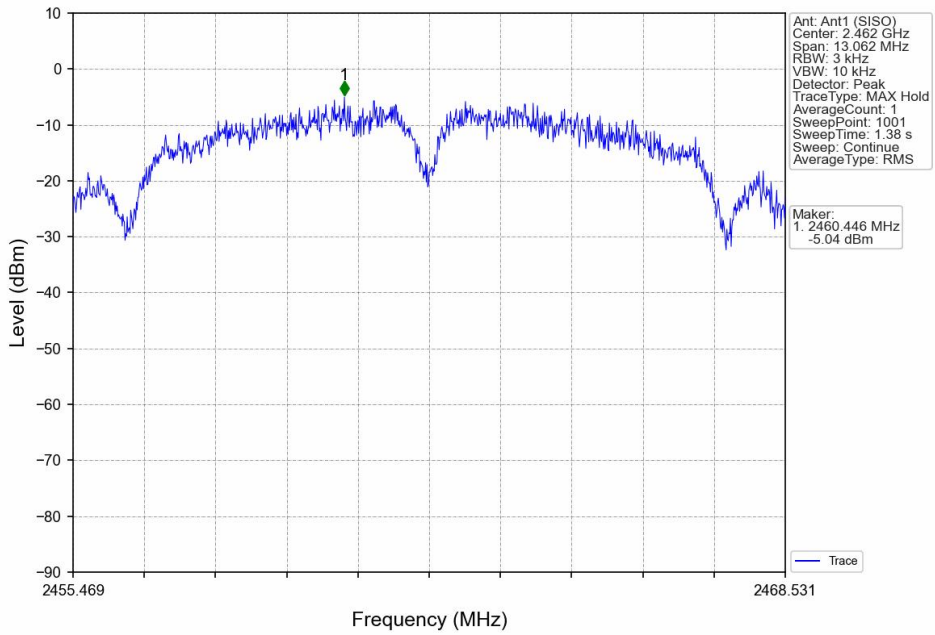
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-5.15	<=8	Pass
		2437	-4.21	<=8	Pass
		2462	-5.04	<=8	Pass
802.11g	SISO	2412	-7.20	<=8	Pass
		2437	-6.69	<=8	Pass
		2462	-7.50	<=8	Pass
802.11n (HT20)	SISO	2412	-9.66	<=8	Pass
		2437	-7.49	<=8	Pass
		2462	-10.35	<=8	Pass
802.11n (HT40)	SISO	2422	-15.39	<=8	Pass
		2437	-17.43	<=8	Pass
		2452	-17.15	<=8	Pass

Note1: Antenna Gain: Ant1: 2.21dBi;

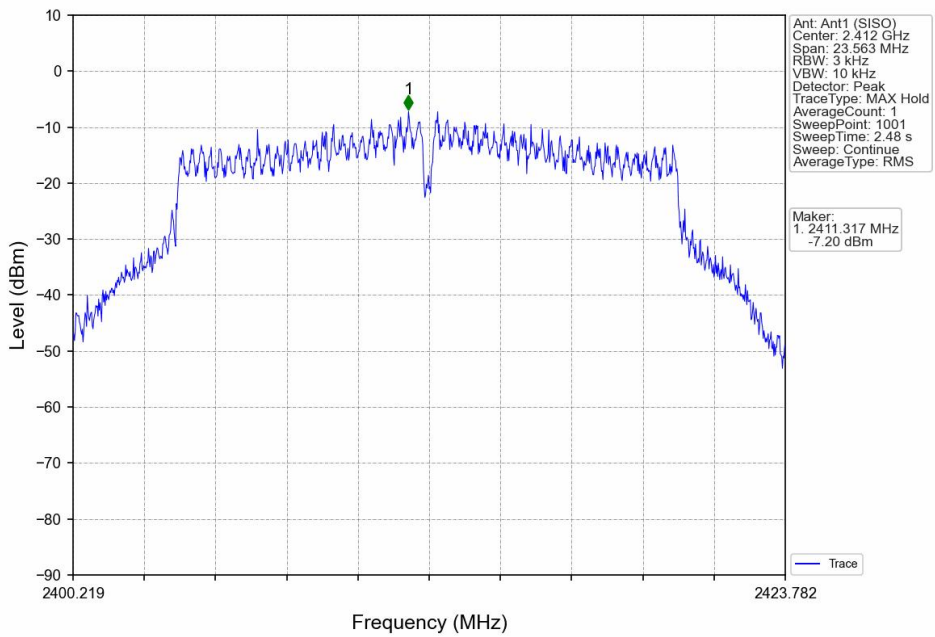
4.1.2 Test Graph



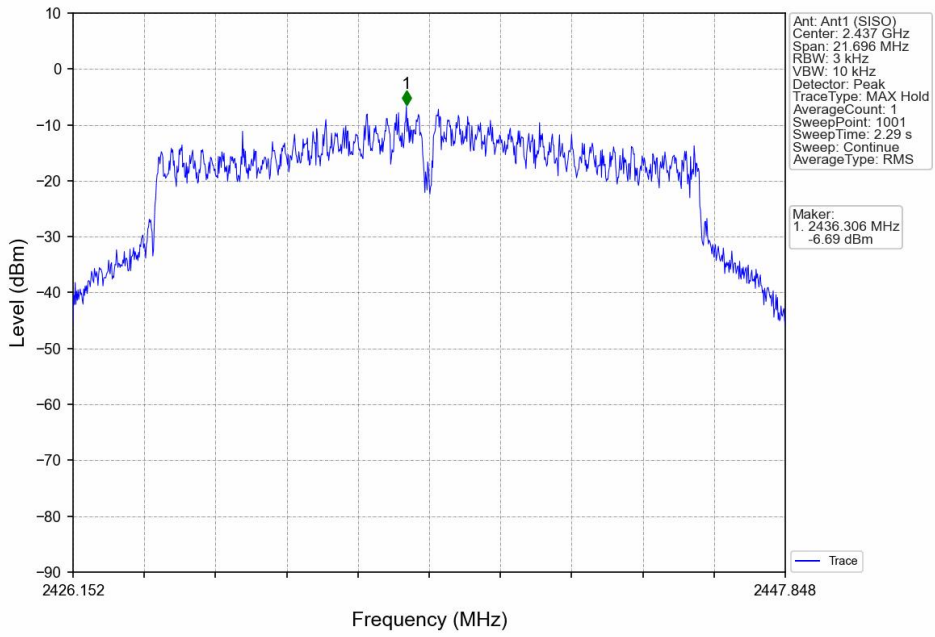
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



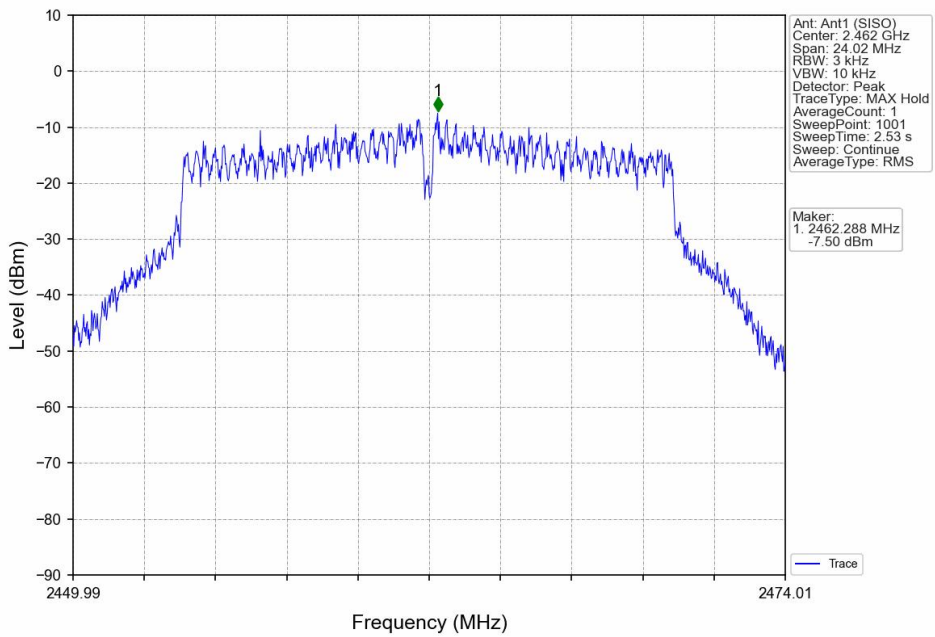
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



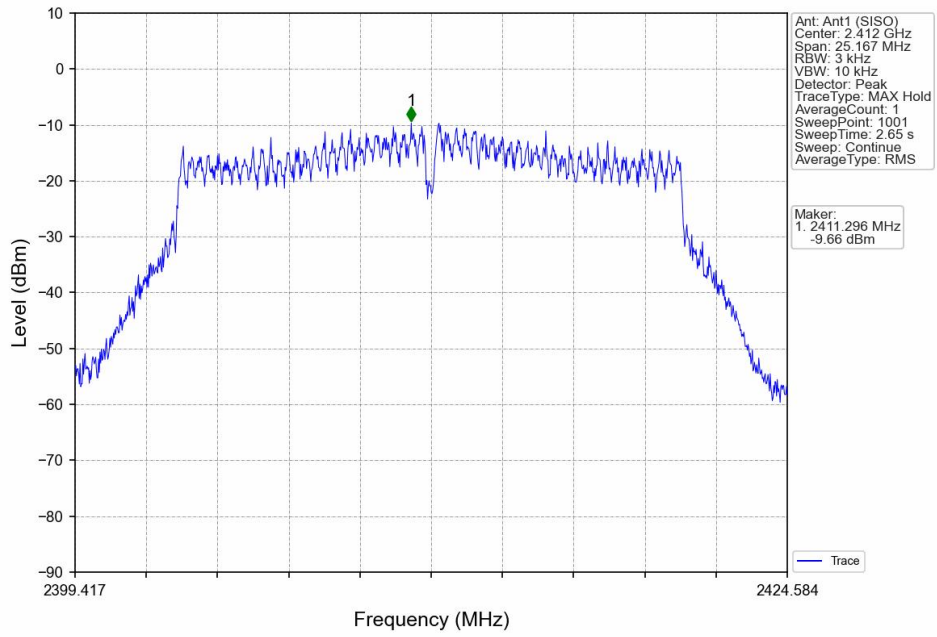
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



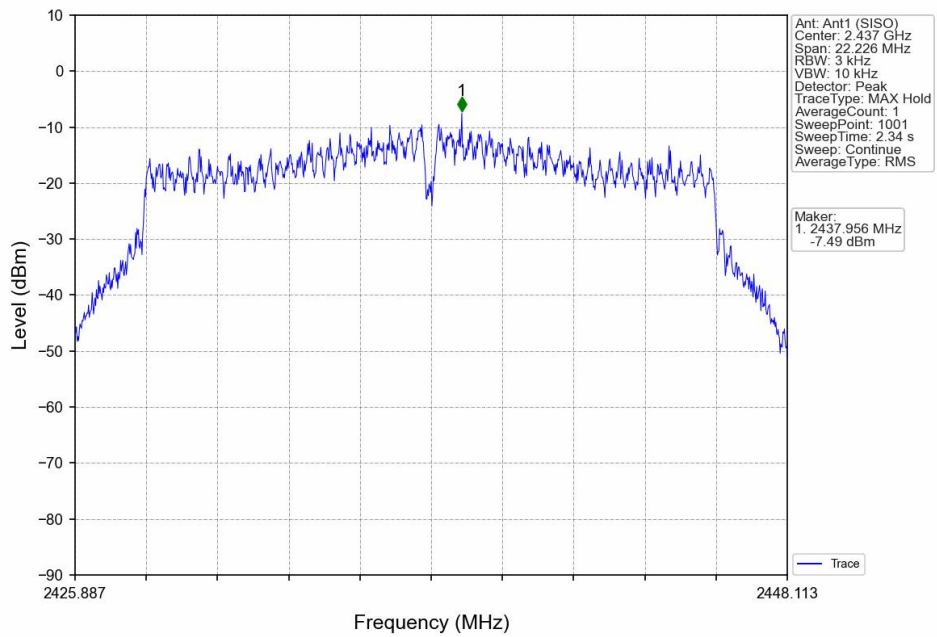
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



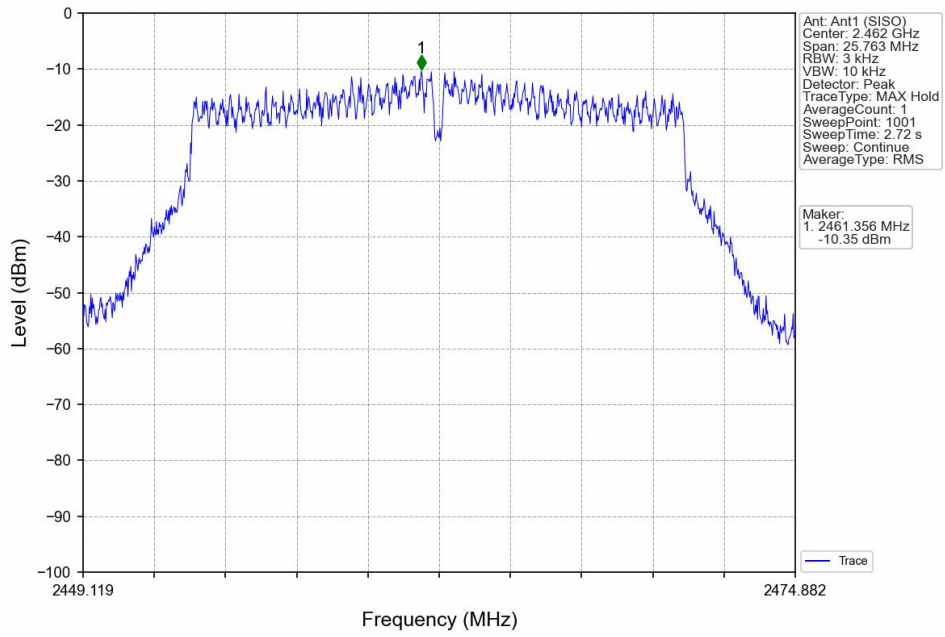
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



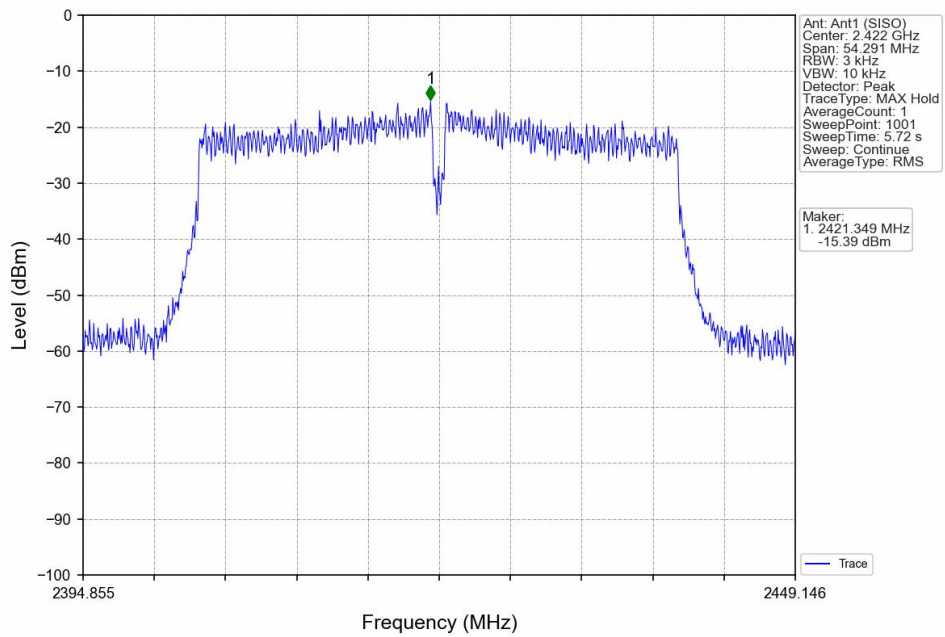
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



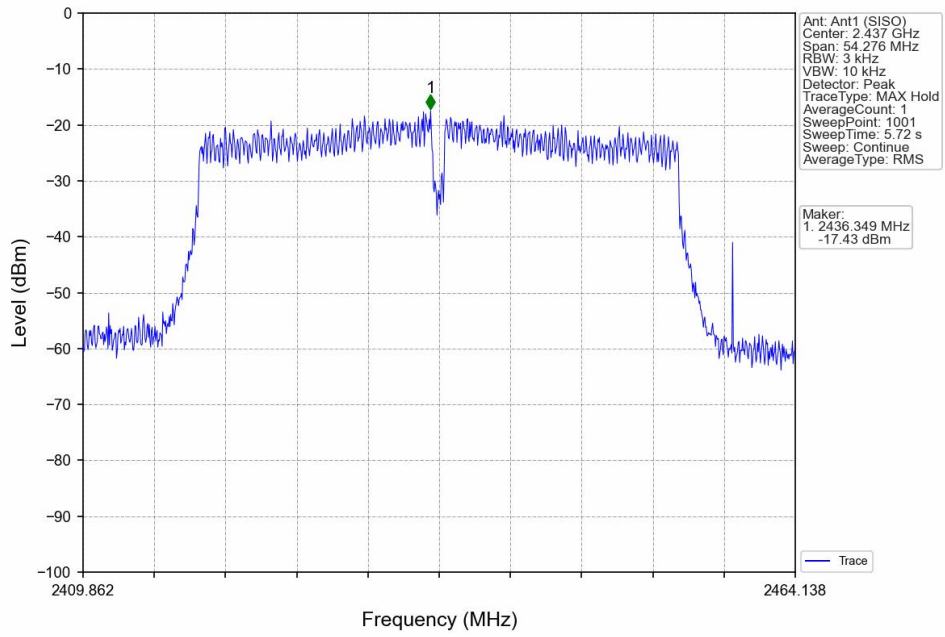
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1(SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1(SISO)_NTNV

