

1. Appendix Report

1. Duty Cycle

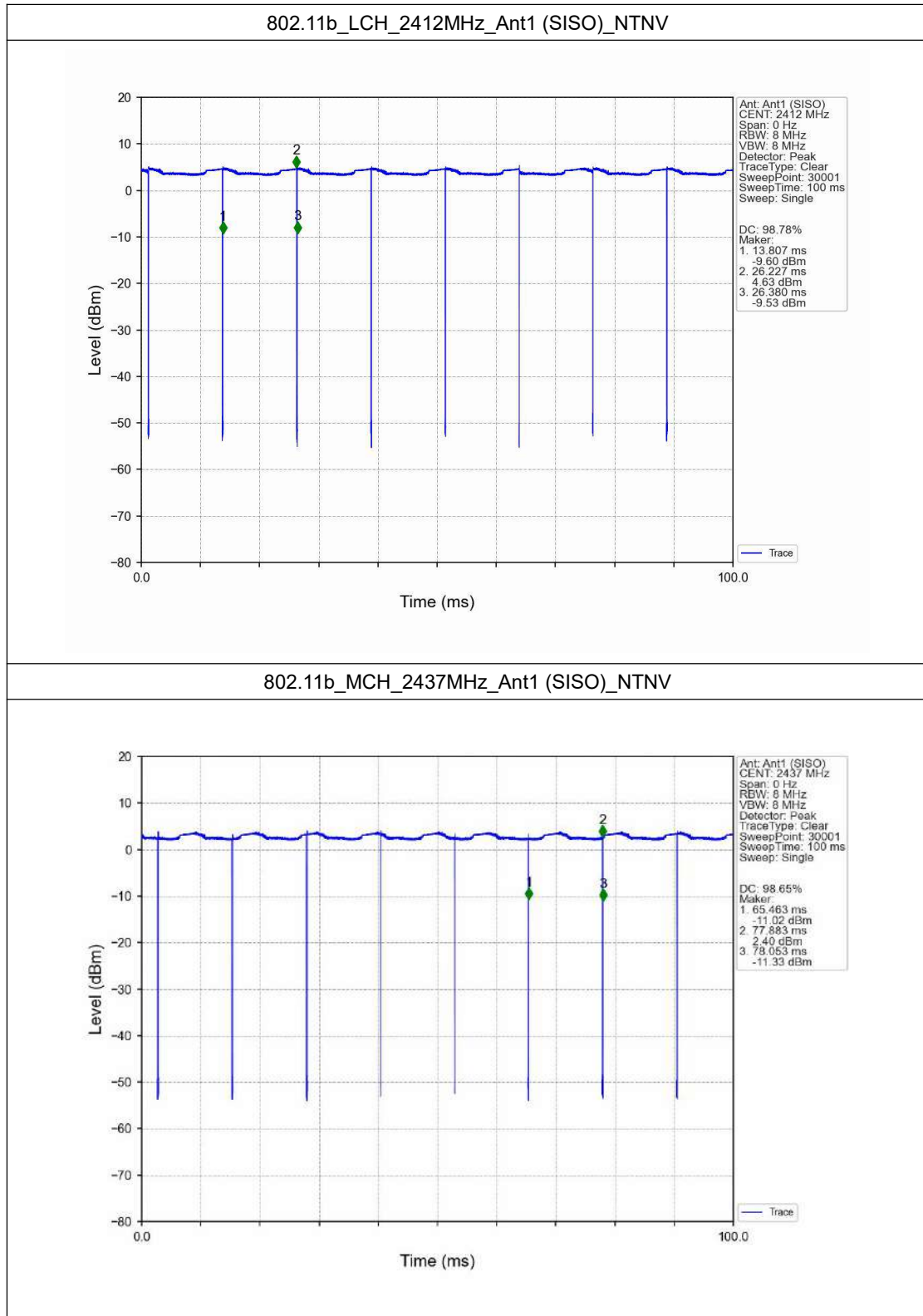
1.1 Test Result

1.1.1 Ant1

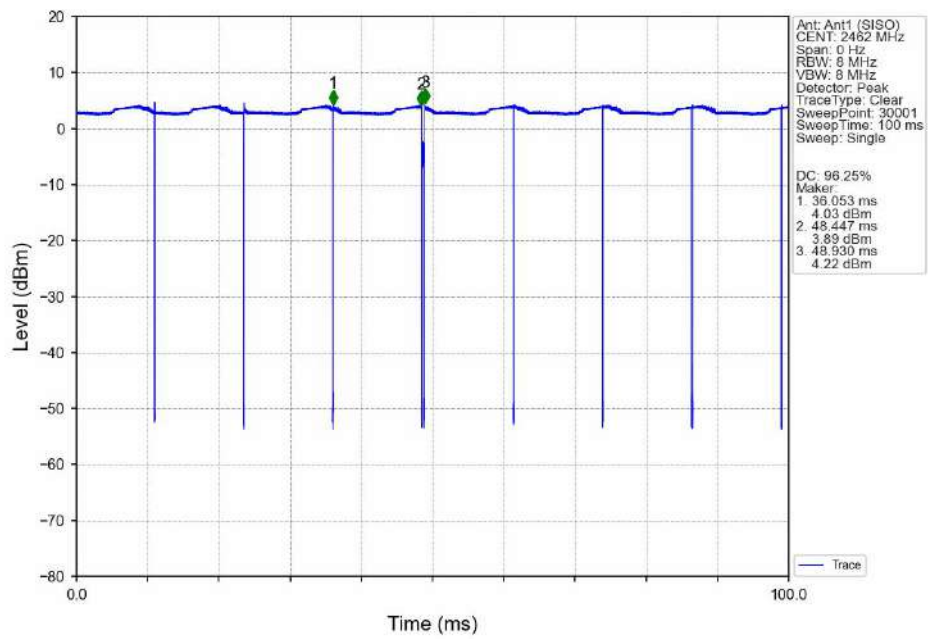
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.420	12.573	98.78	0.05	0.93
		2437	12.420	12.590	98.65	0.06	1.06
		2462	12.394	12.877	96.25	0.17	2.98
802.11g	SISO	2412	0.311	0.454	68.50	1.64	28.88
		2437	2.067	2.219	93.15	0.31	3.12
		2462	2.072	2.228	93.00	0.32	5.19
802.11n (HT20)	SISO	2412	1.928	2.058	93.68	0.28	4.77
		2437	1.923	2.854	67.38	1.71	28.20
		2462	1.927	2.093	92.07	0.36	6.42
802.11n (HT40)	SISO	2422	0.953	1.099	86.72	0.62	10.22
		2437	0.952	1.108	85.92	0.66	10.99
		2452	0.952	1.118	85.15	0.70	11.71

1.2 Test Graph

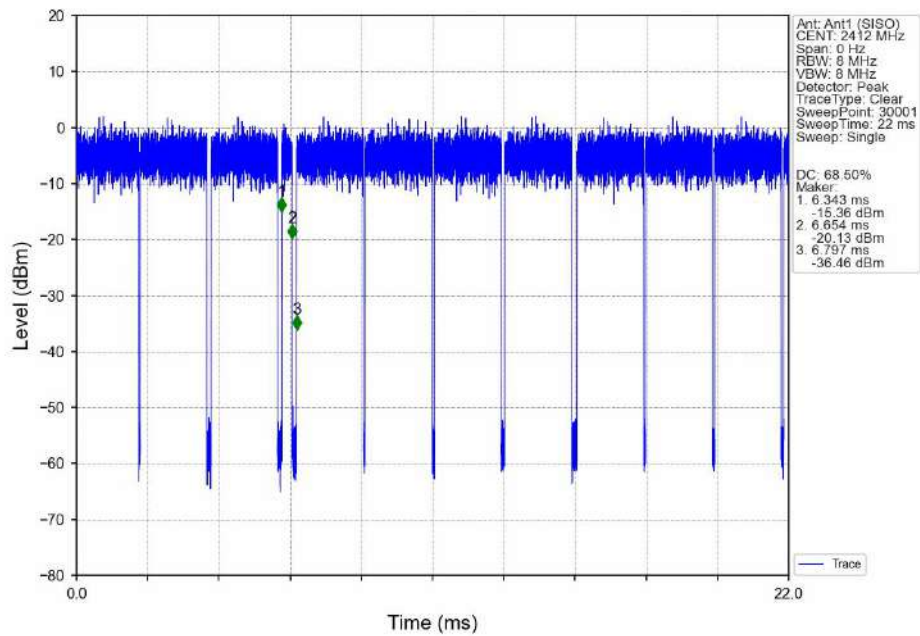
1.2.1 Ant1



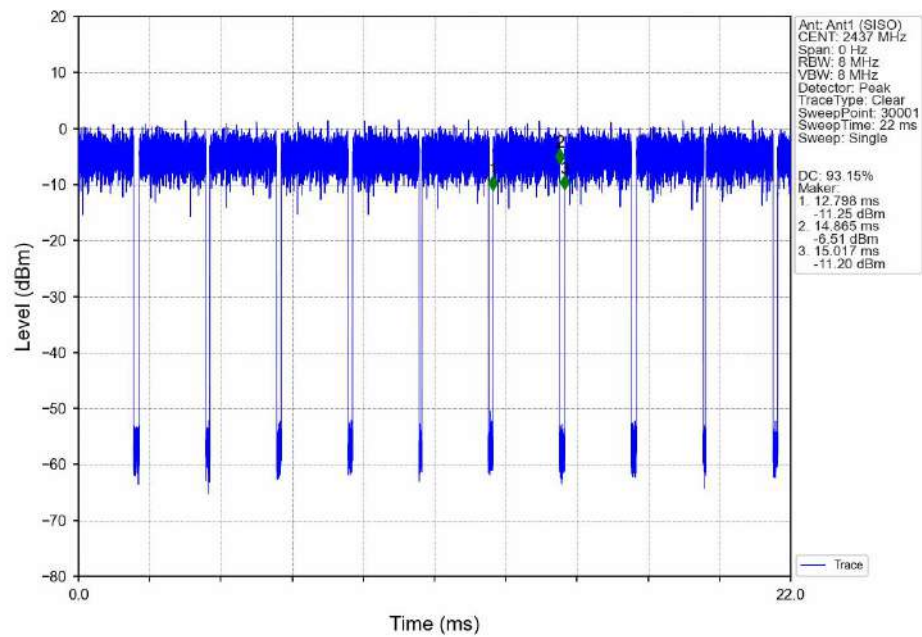
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



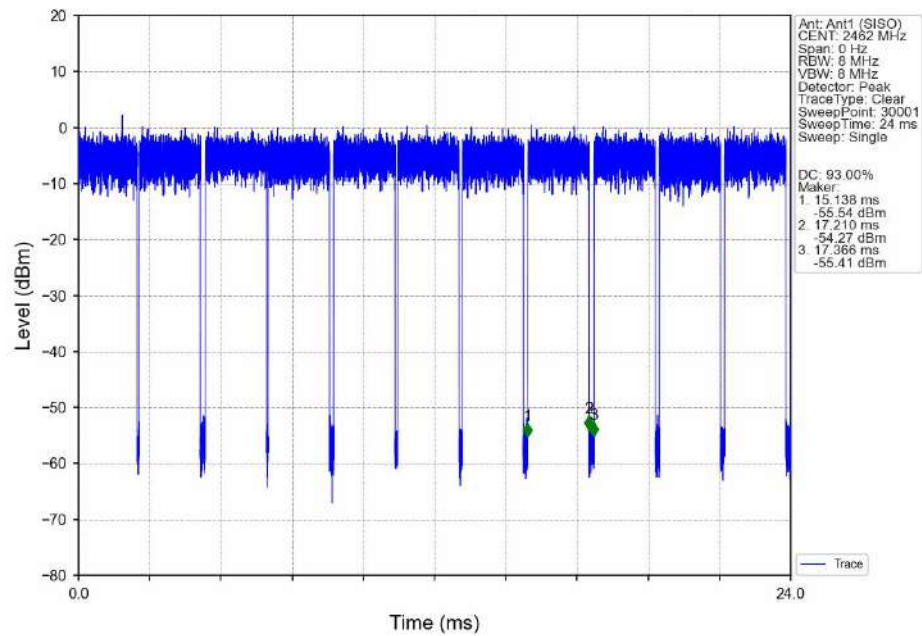
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



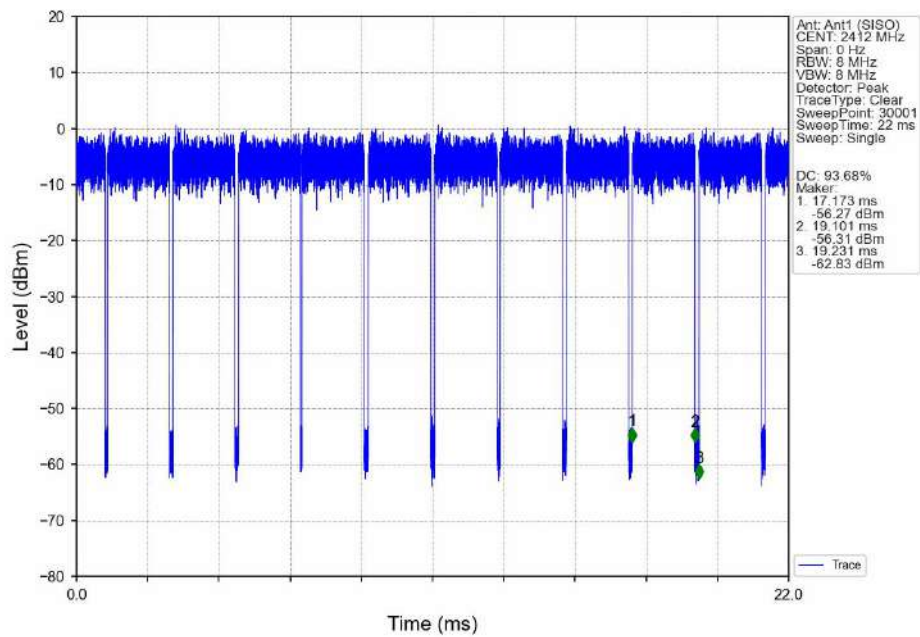
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



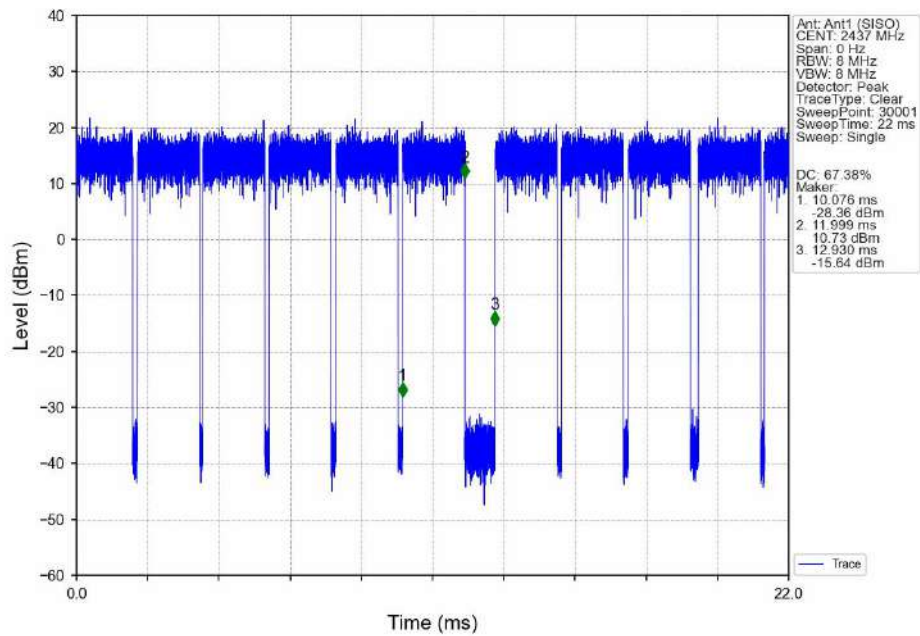
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



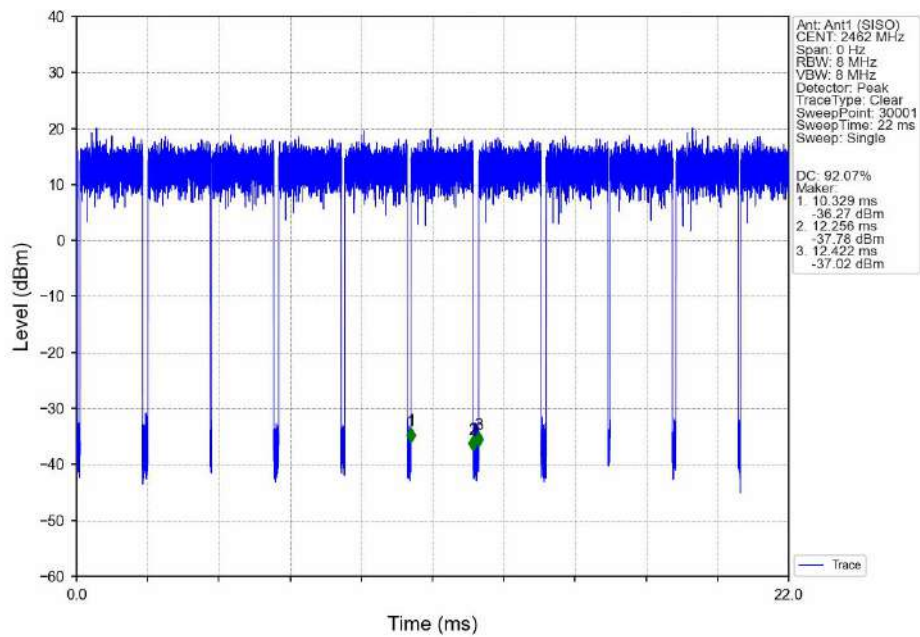
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



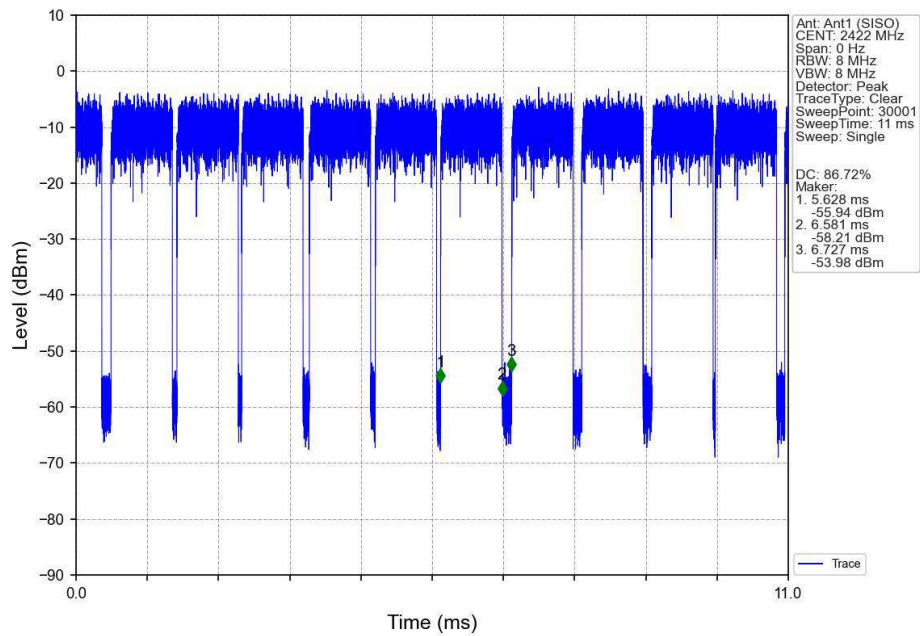
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



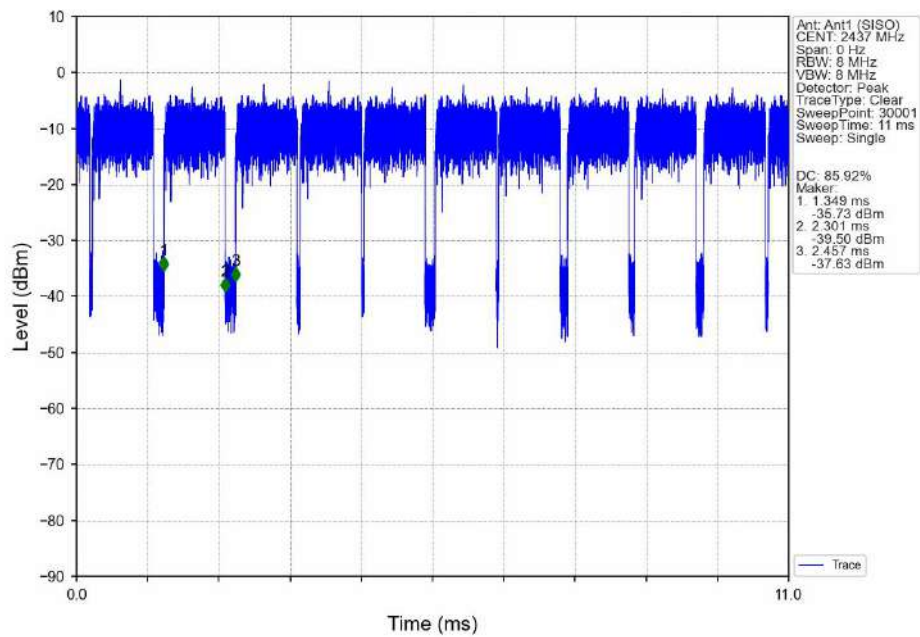
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



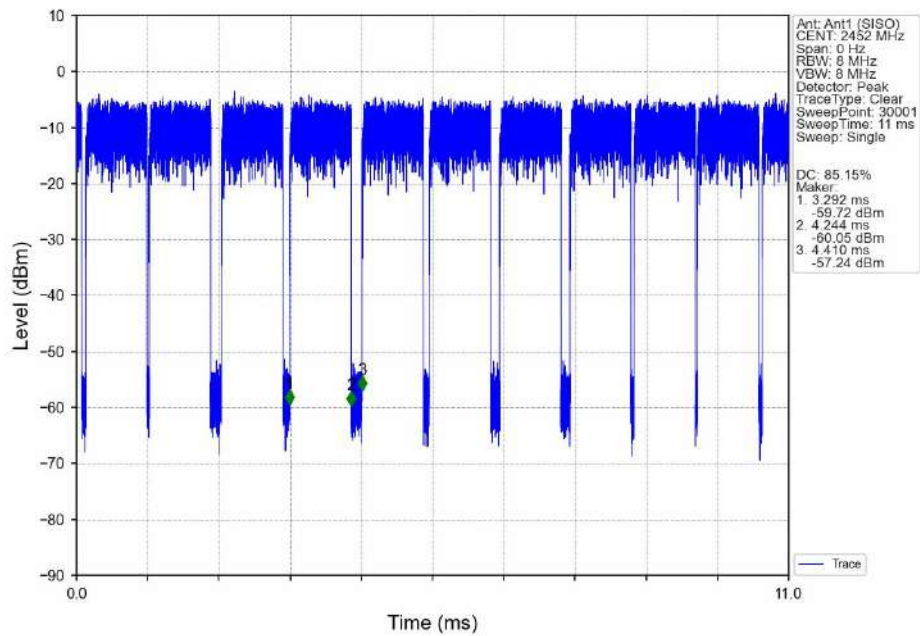
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

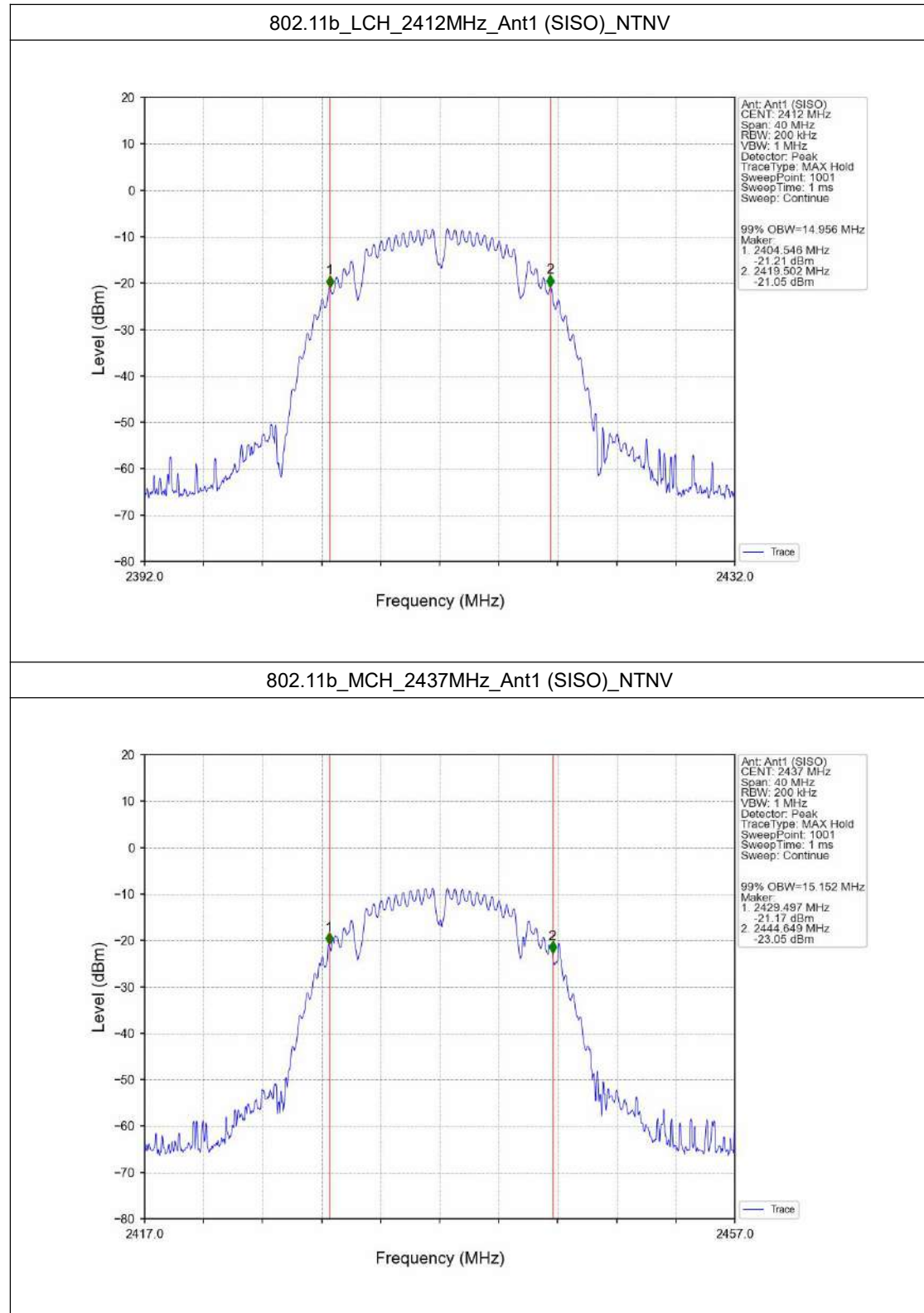
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.956	/	Pass
		2437	1	15.152	/	Pass
		2462	1	15.131	/	Pass
802.11g	SISO	2412	1	16.620	/	Pass
		2437	1	16.574	/	Pass
		2462	1	16.563	/	Pass
802.11n (HT20)	SISO	2412	1	17.672	/	Pass
		2437	1	17.679	/	Pass
		2462	1	17.672	/	Pass
802.11n (HT40)	SISO	2422	1	36.667	/	Pass
		2437	1	36.841	/	Pass
		2452	1	36.640	/	Pass

2.1.2 6dB BW

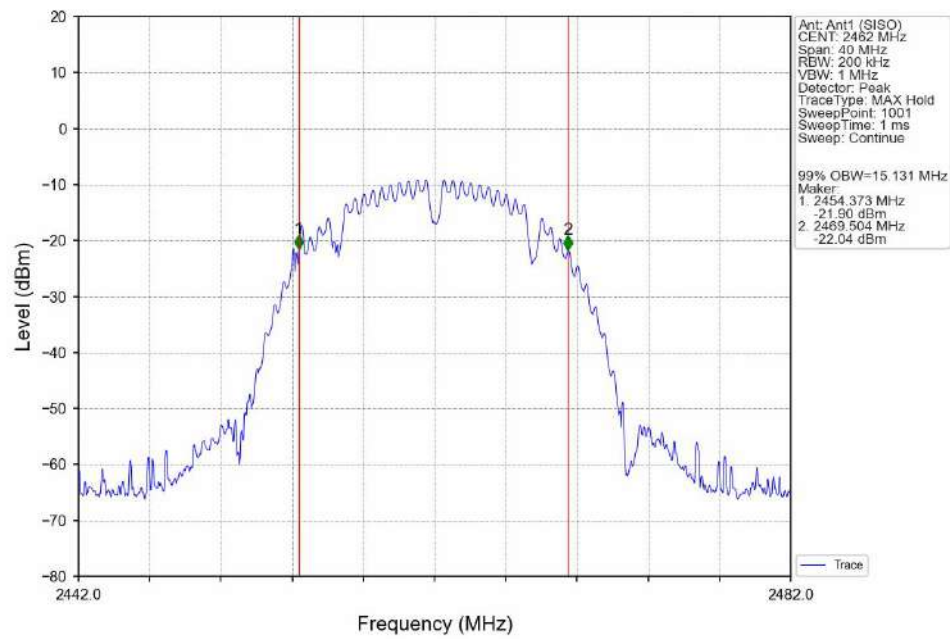
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.130	≥ 0.5	Pass
		2437	1	10.119	≥ 0.5	Pass
		2462	1	10.115	≥ 0.5	Pass
802.11g	SISO	2412	1	16.378	≥ 0.5	Pass
		2437	1	16.371	≥ 0.5	Pass
		2462	1	16.372	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	16.985	≥ 0.5	Pass
		2437	1	17.104	≥ 0.5	Pass
		2462	1	17.141	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.661	≥ 0.5	Pass
		2437	1	35.704	≥ 0.5	Pass
		2452	1	35.862	≥ 0.5	Pass

2.2 Test Graph

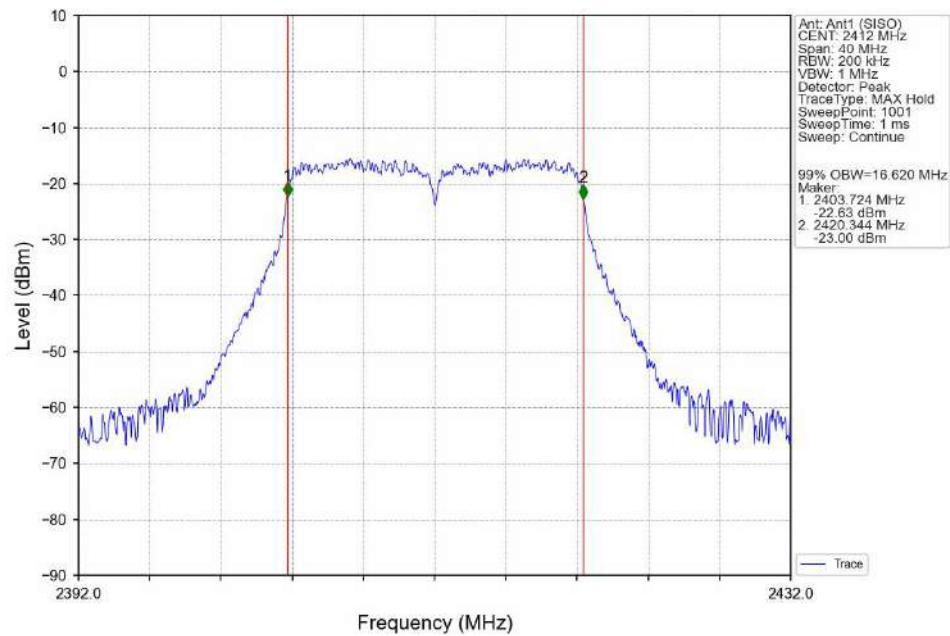
2.2.1 OBW



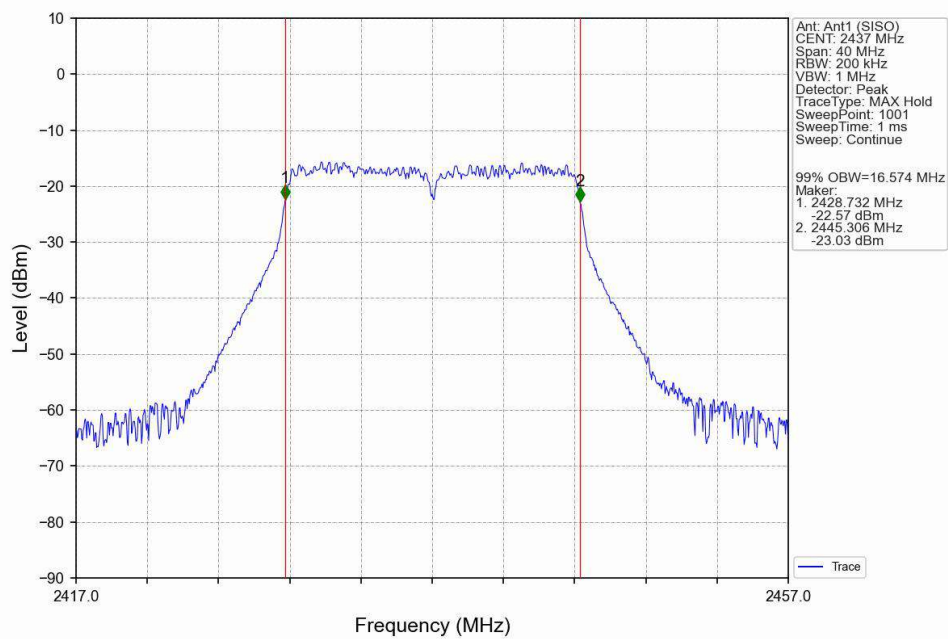
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



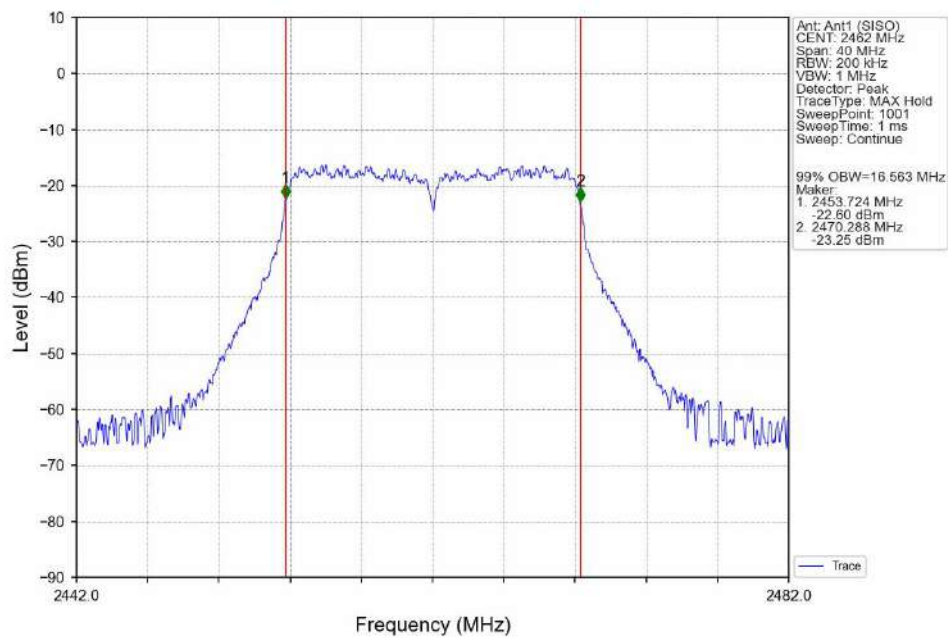
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



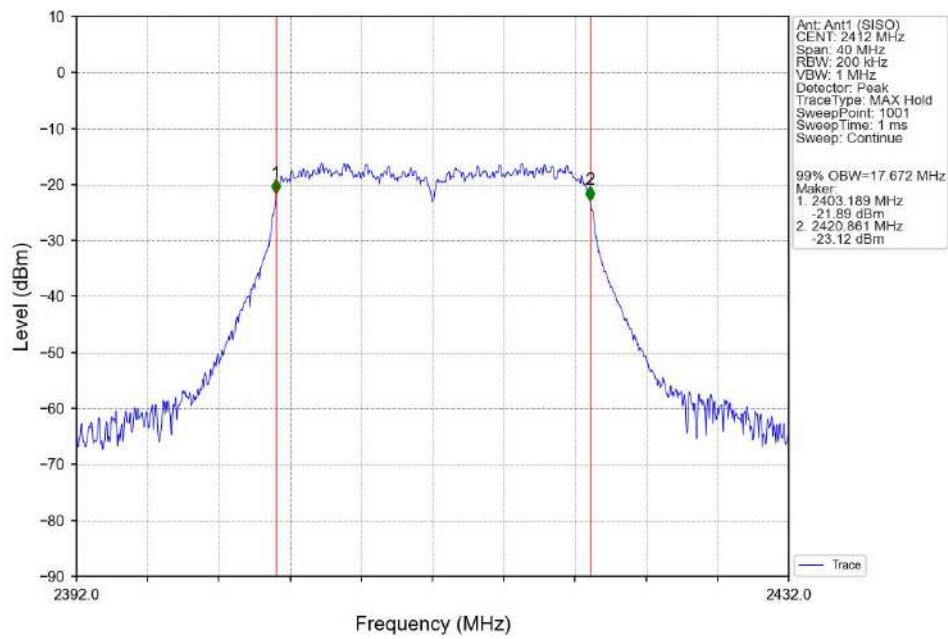
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



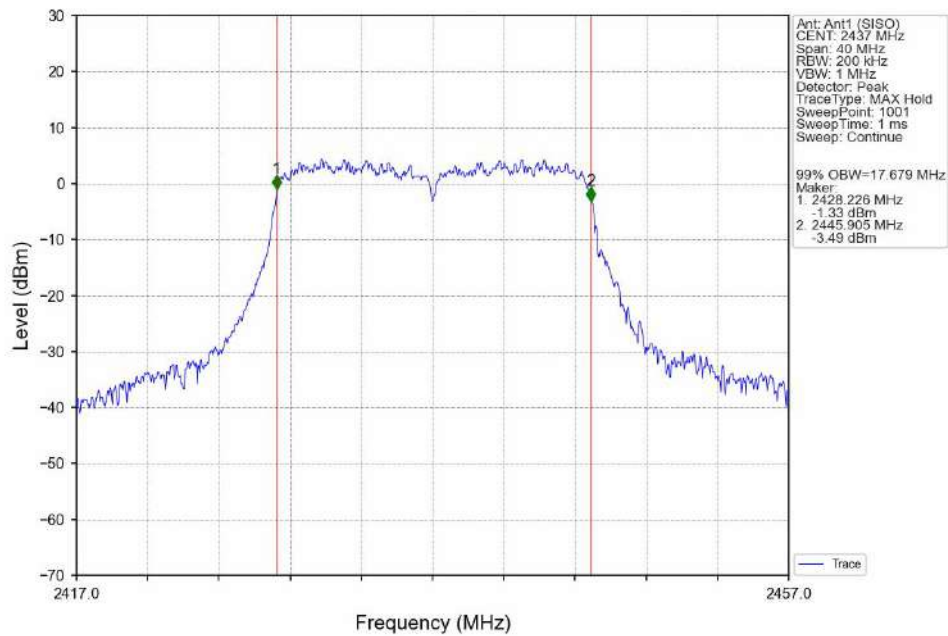
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



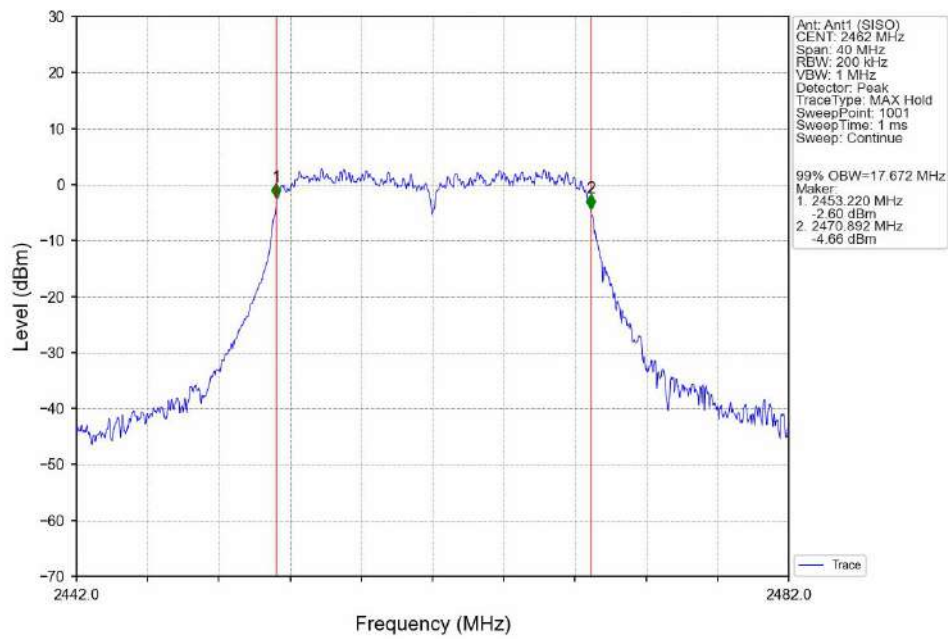
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



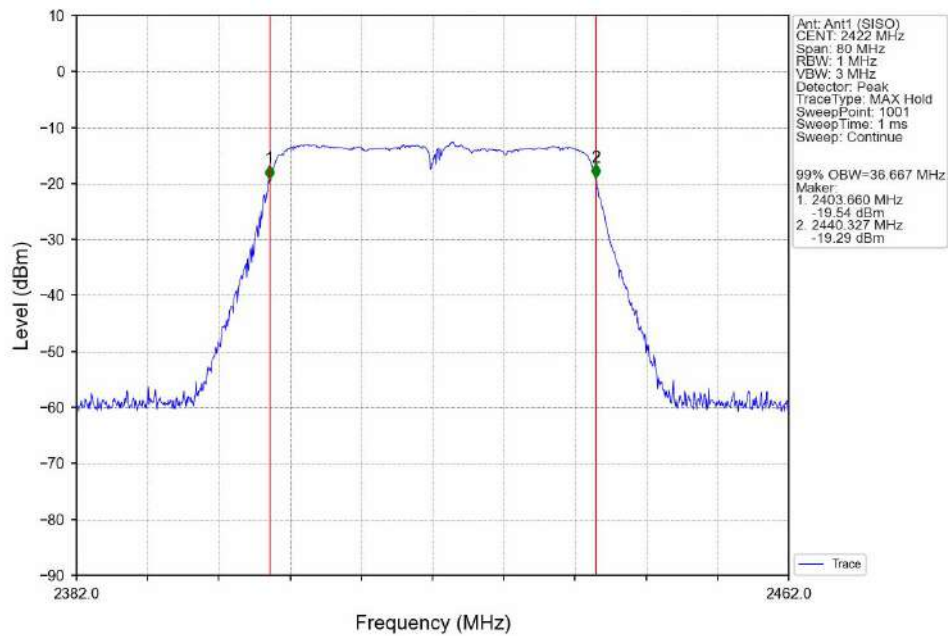
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



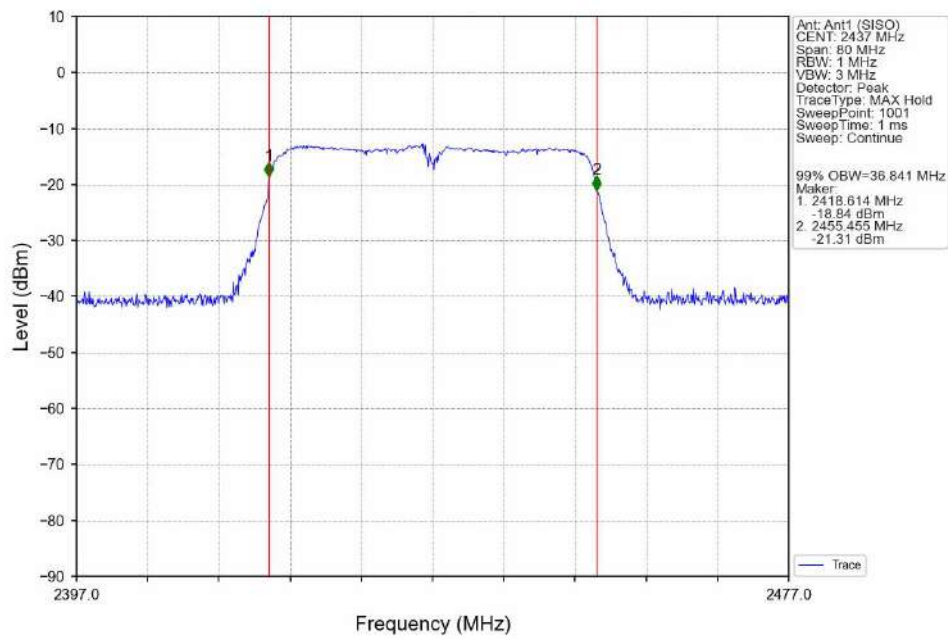
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



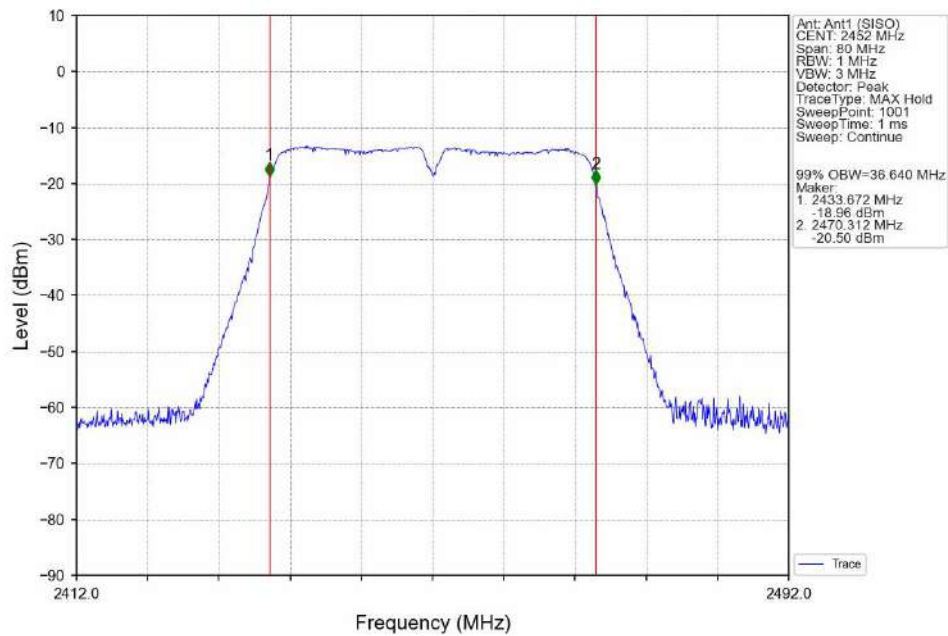
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



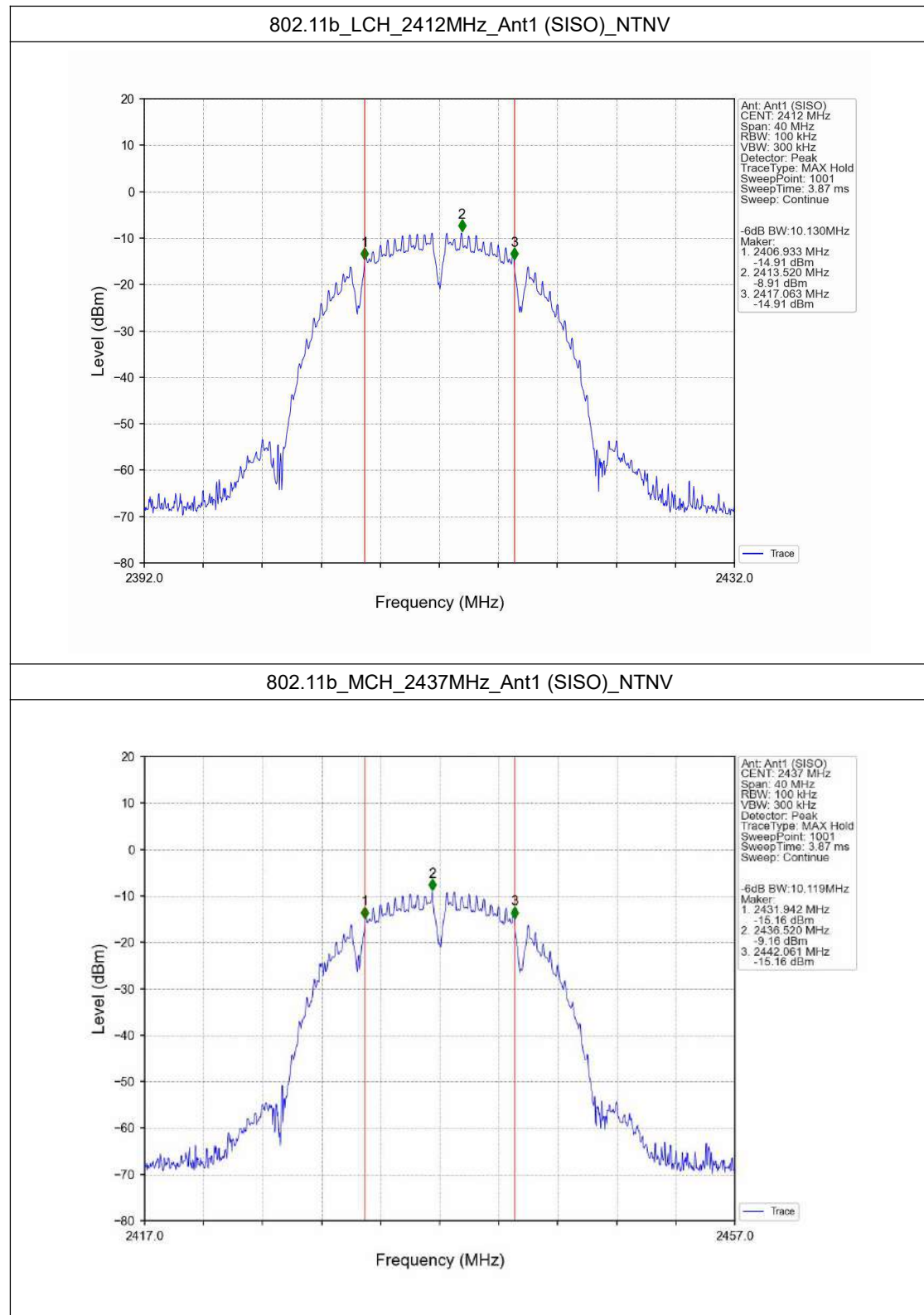
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



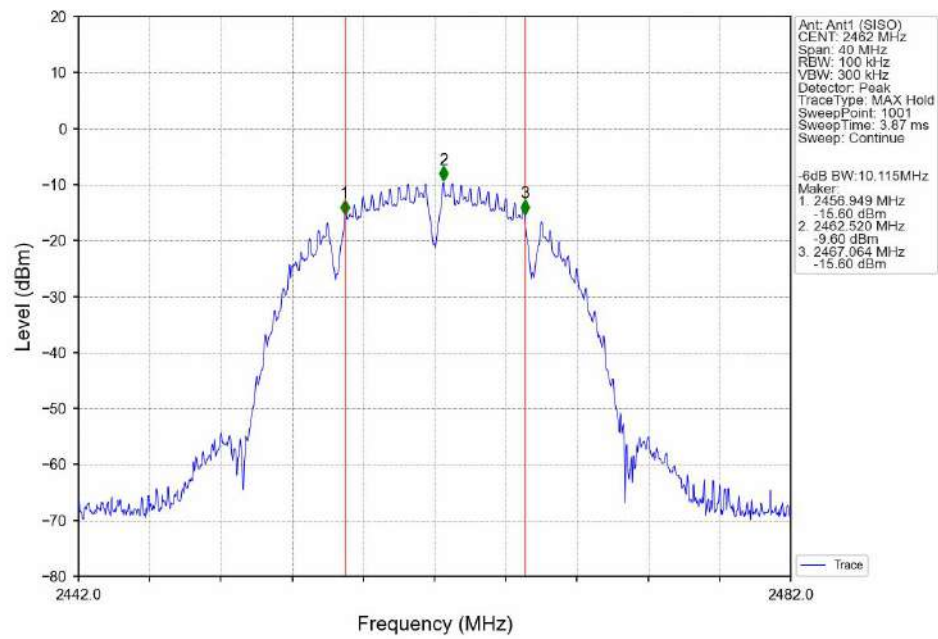
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



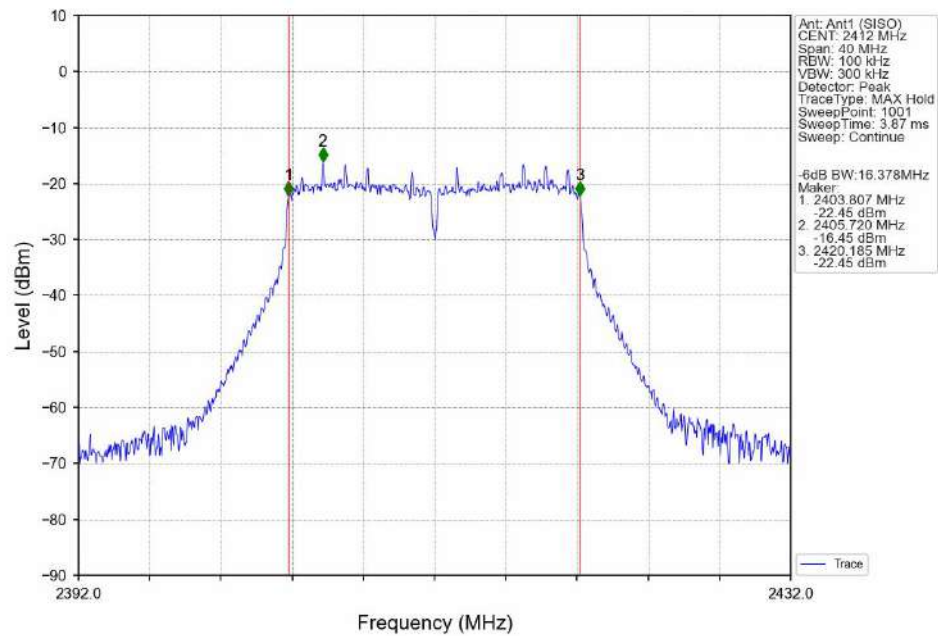
2.2.2 6dB BW



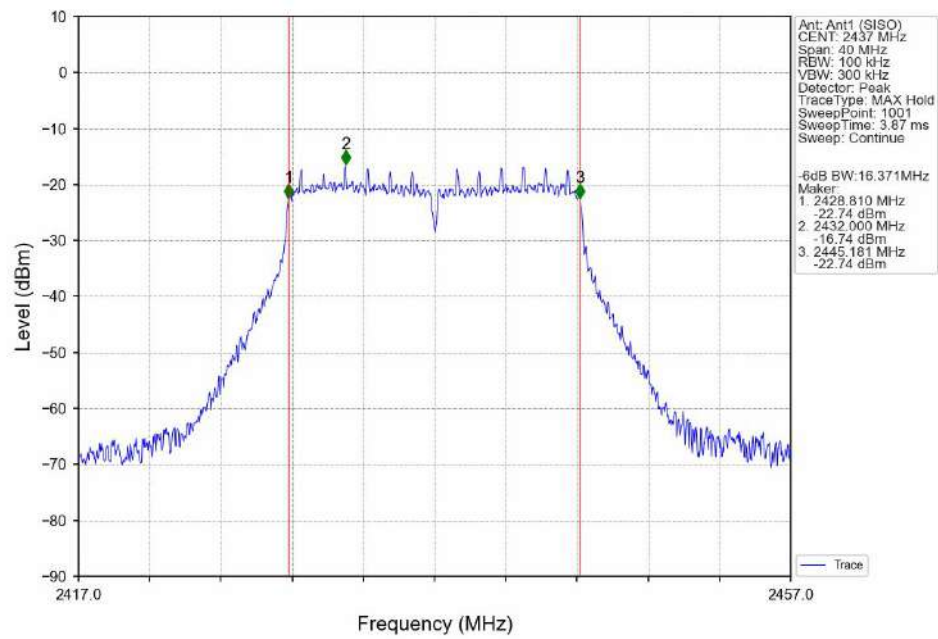
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



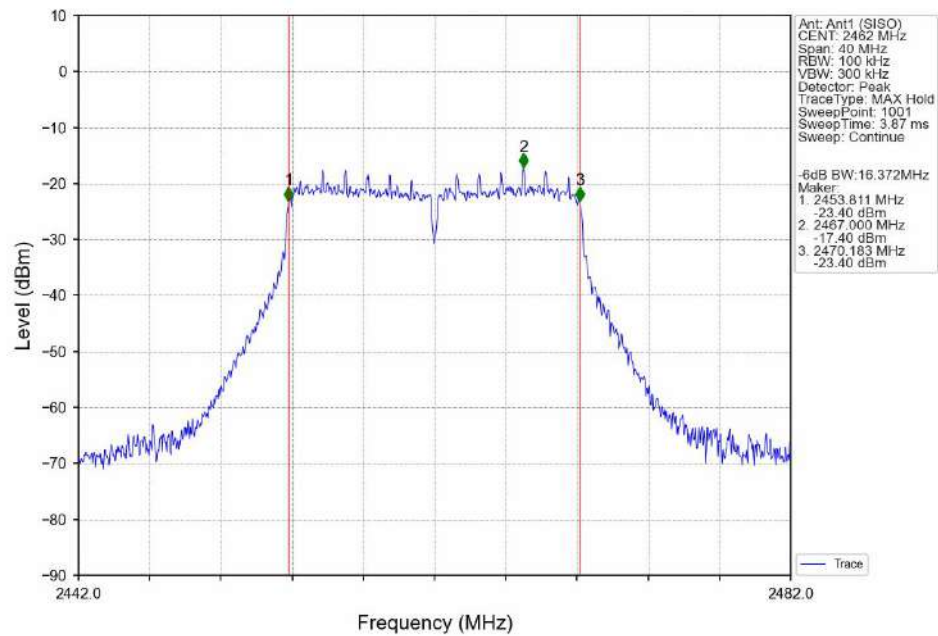
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



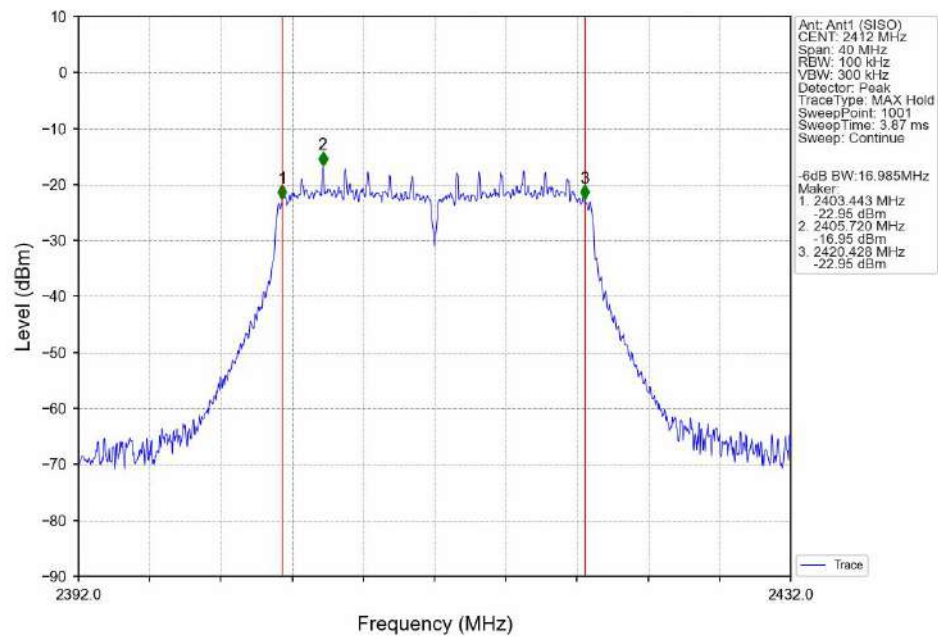
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



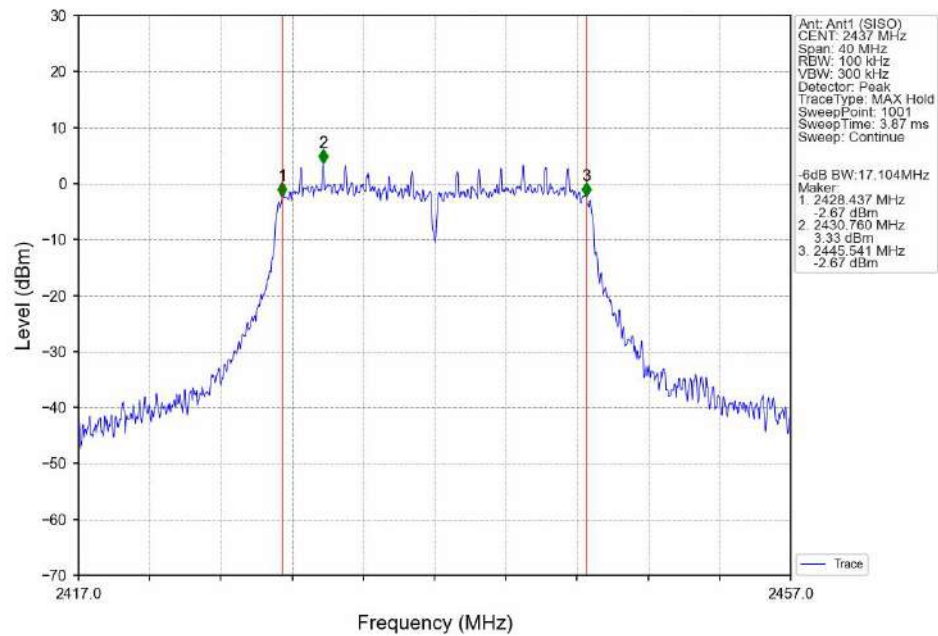
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



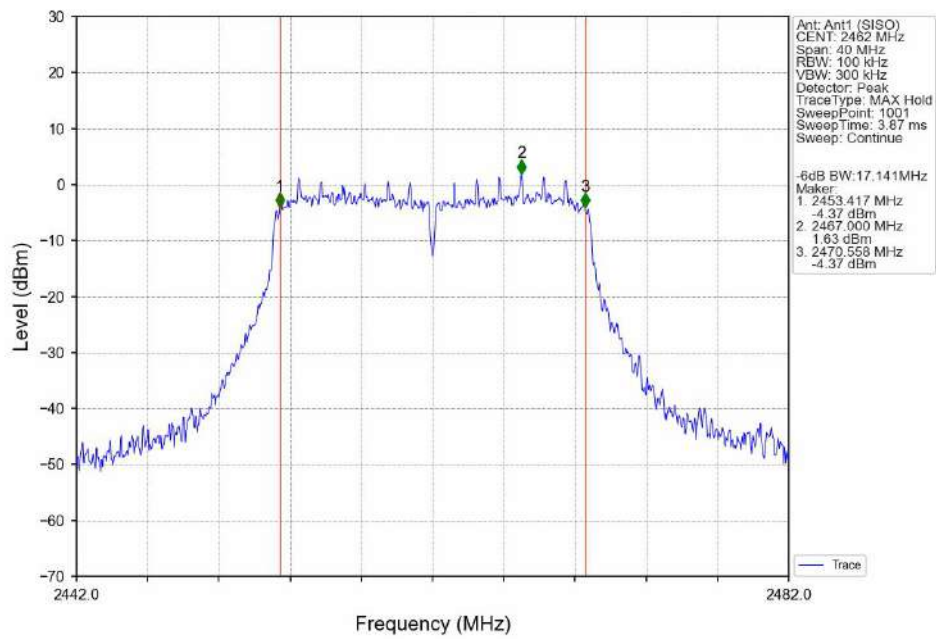
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



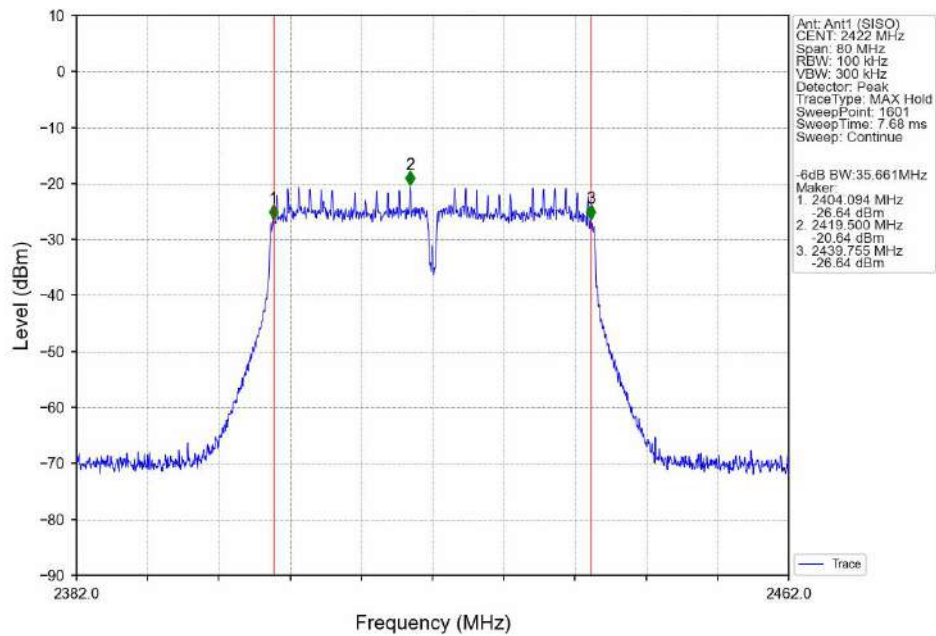
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



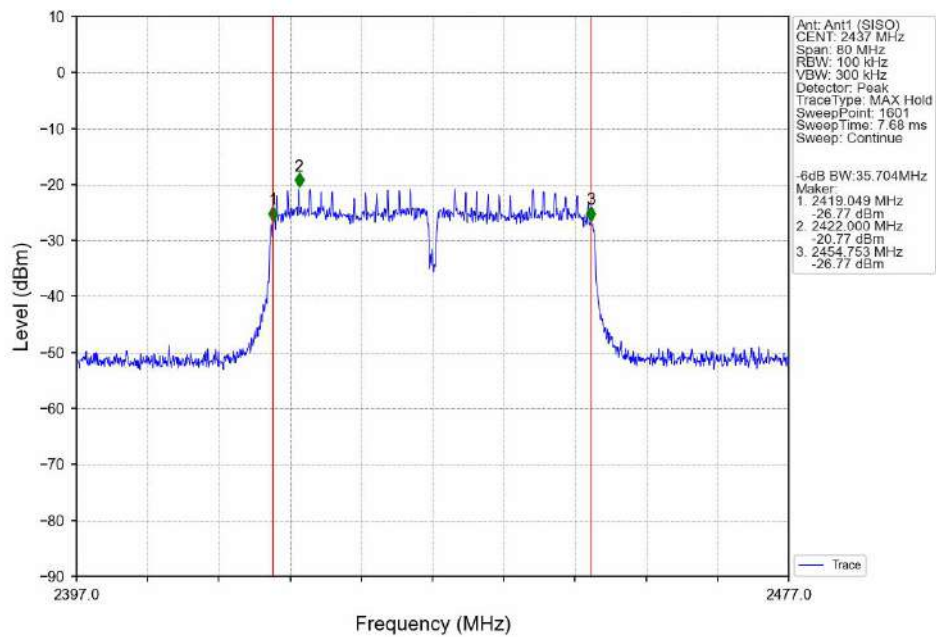
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



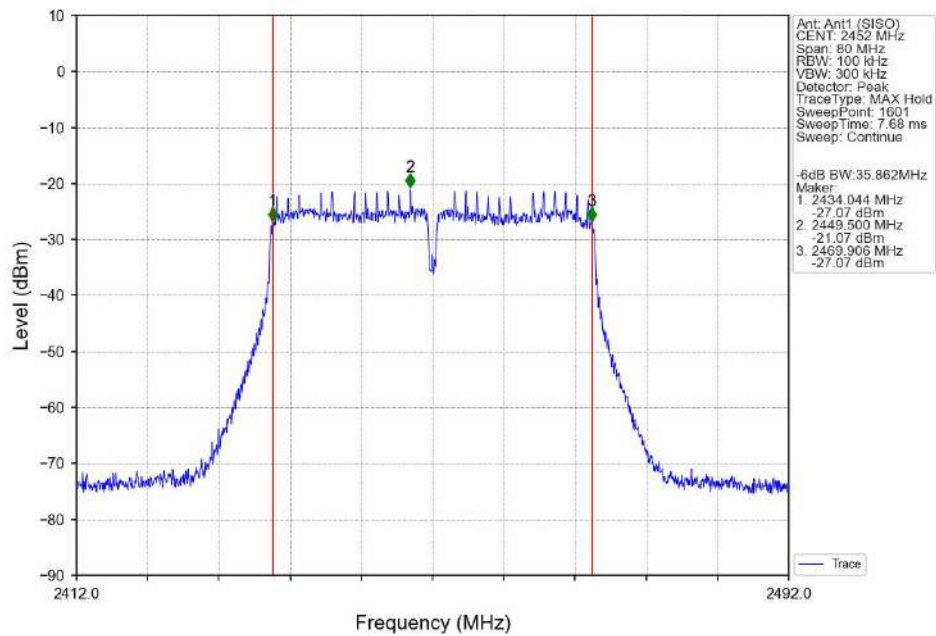
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

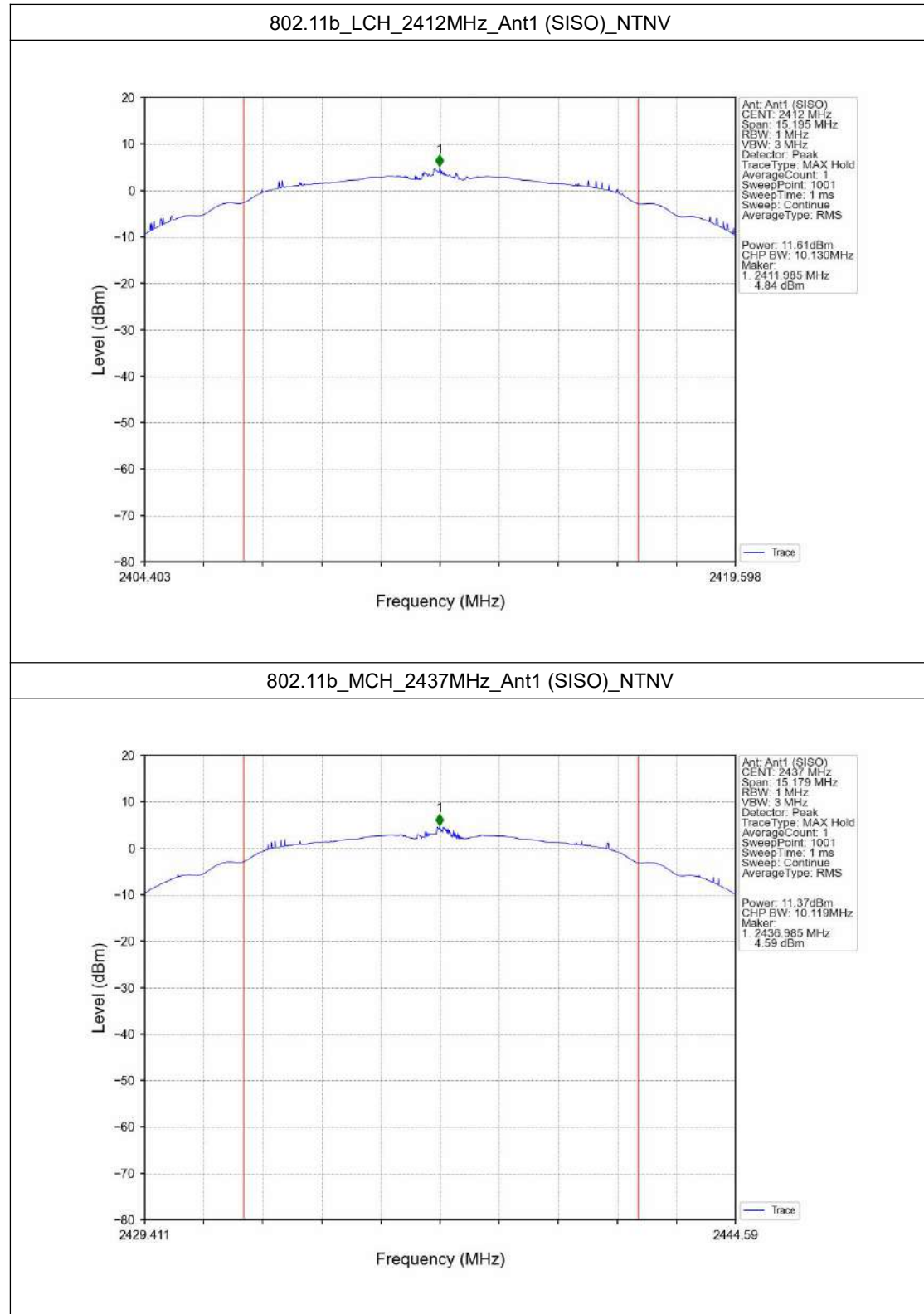
3.1 Test Result

3.1.1 Power

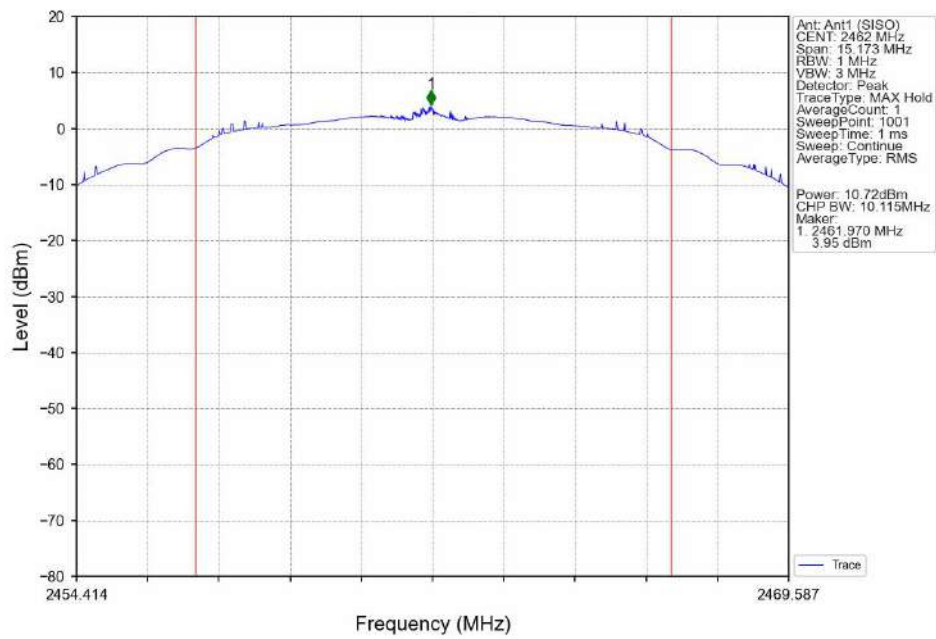
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	11.61	<=30	Pass
		2437	11.37	<=30	Pass
		2462	10.72	<=30	Pass
802.11g	SISO	2412	11.15	<=30	Pass
		2437	10.90	<=30	Pass
		2462	10.29	<=30	Pass
802.11n (HT20)	SISO	2412	11.14	<=30	Pass
		2437	10.80	<=30	Pass
		2462	10.22	<=30	Pass
802.11n (HT40)	SISO	2422	11.23	<=30	Pass
		2437	11.10	<=30	Pass
		2452	10.69	<=30	Pass
Note1: Antenna Gain: Ant1: 3.80dBi;					

3.2 Test Graph

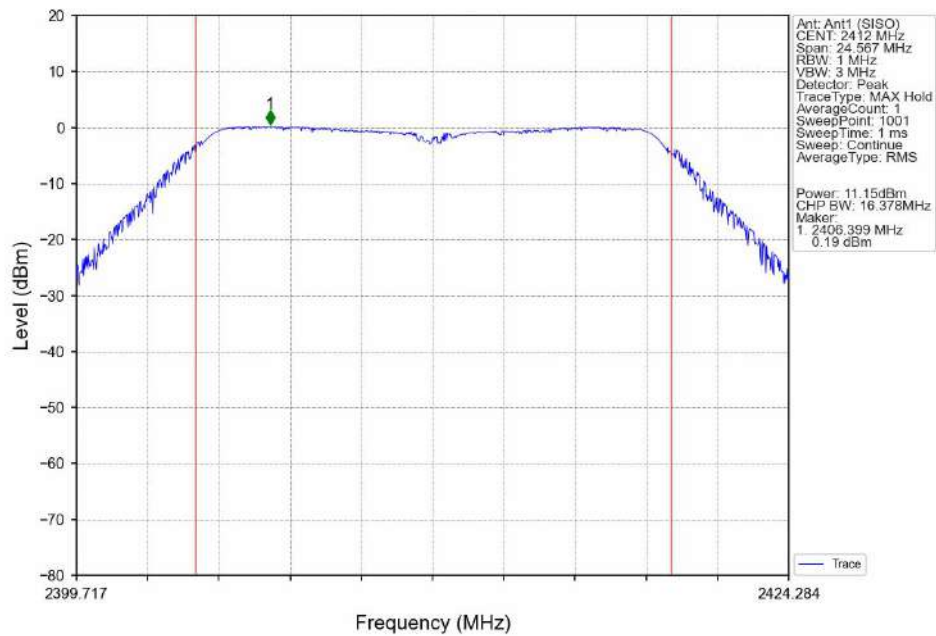
3.2.1 Power



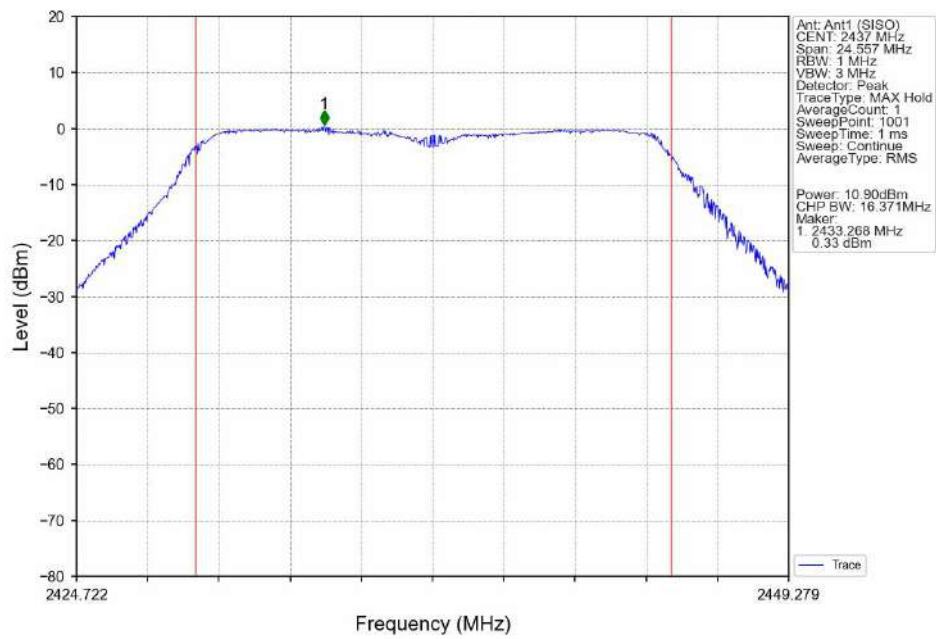
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



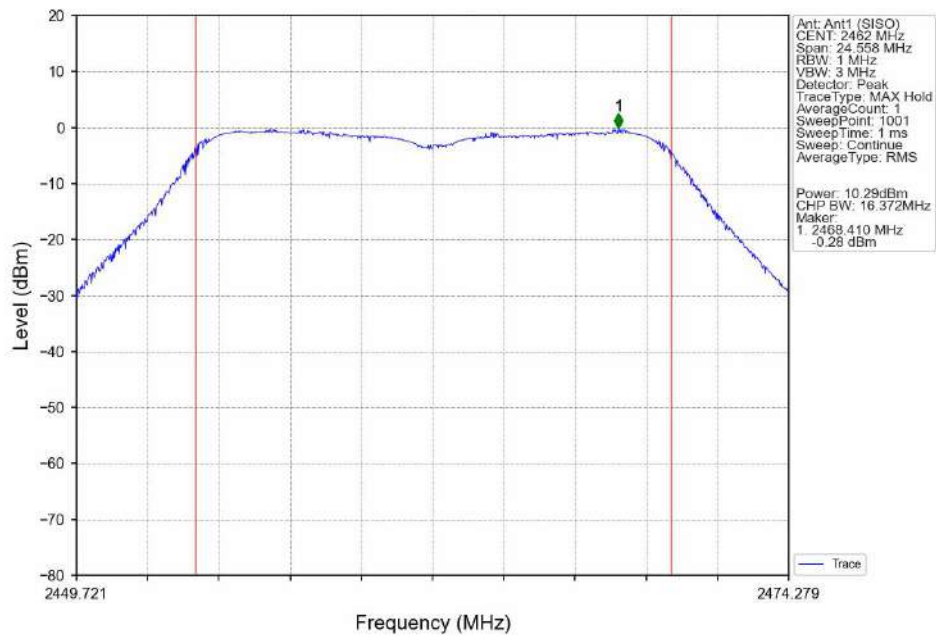
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



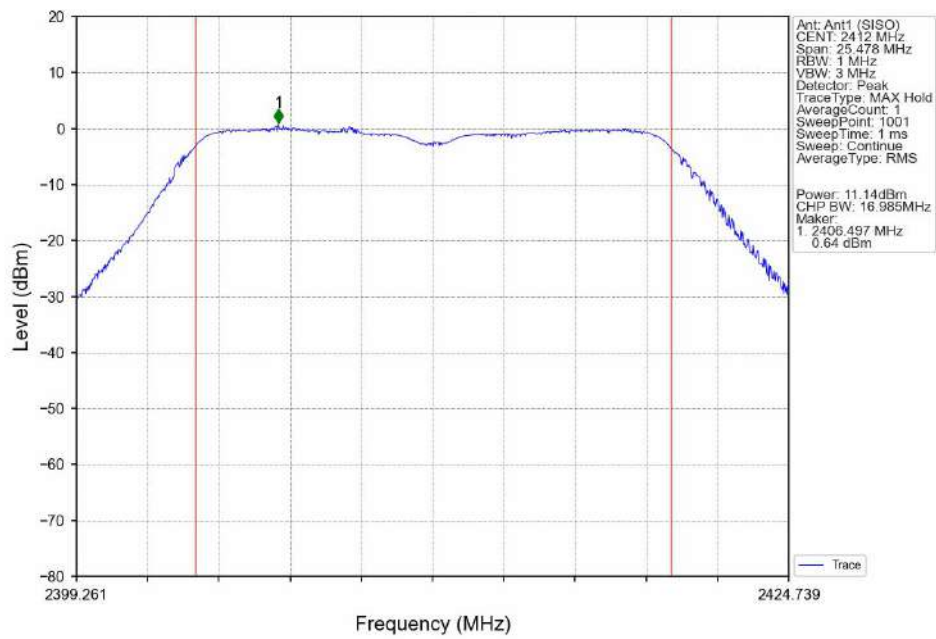
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



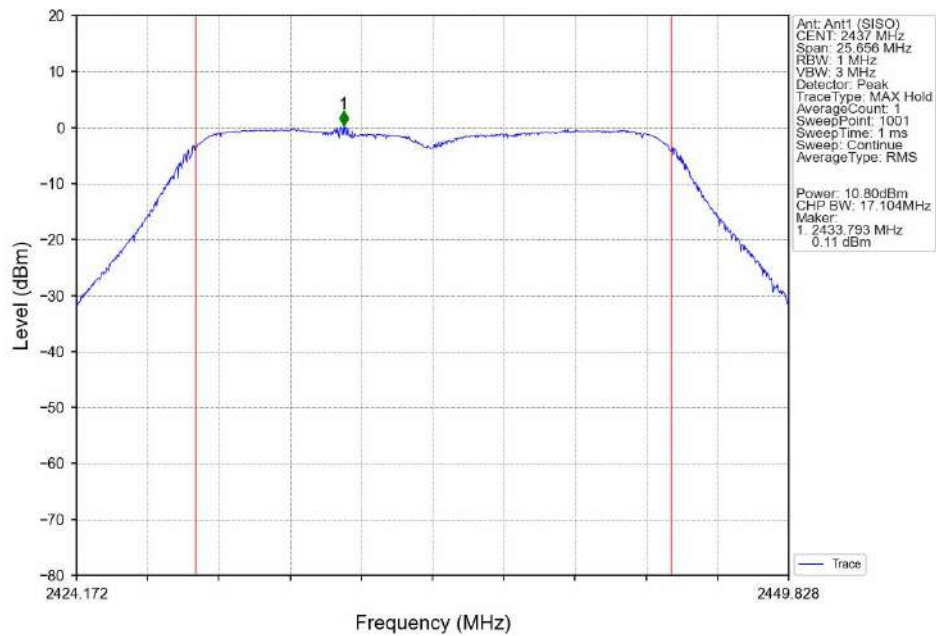
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



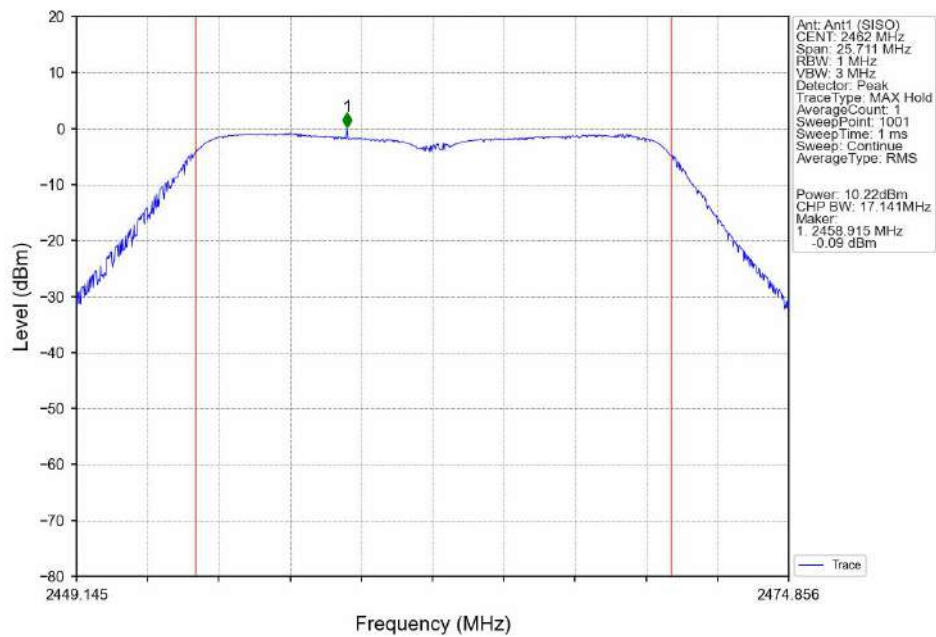
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



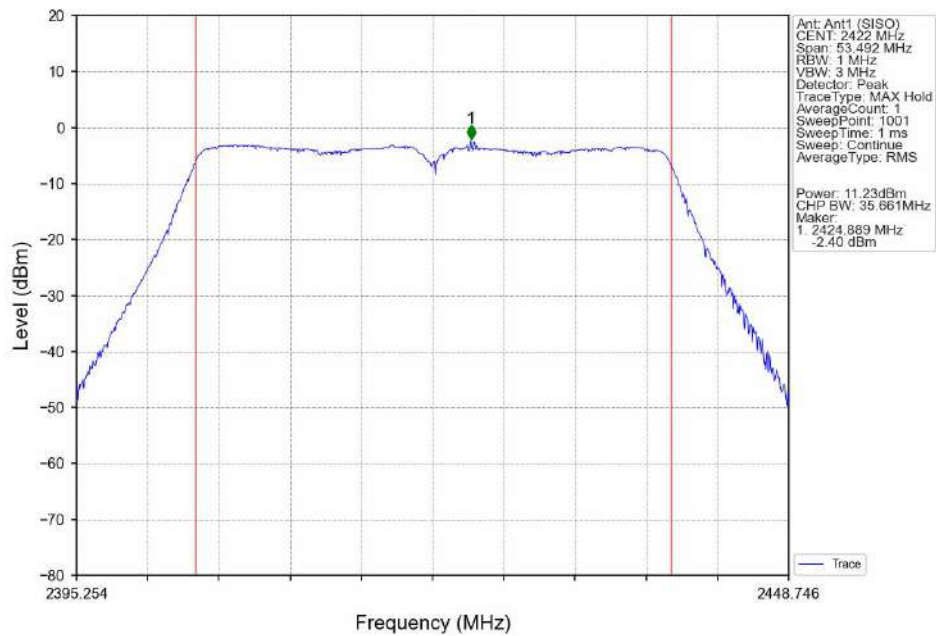
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



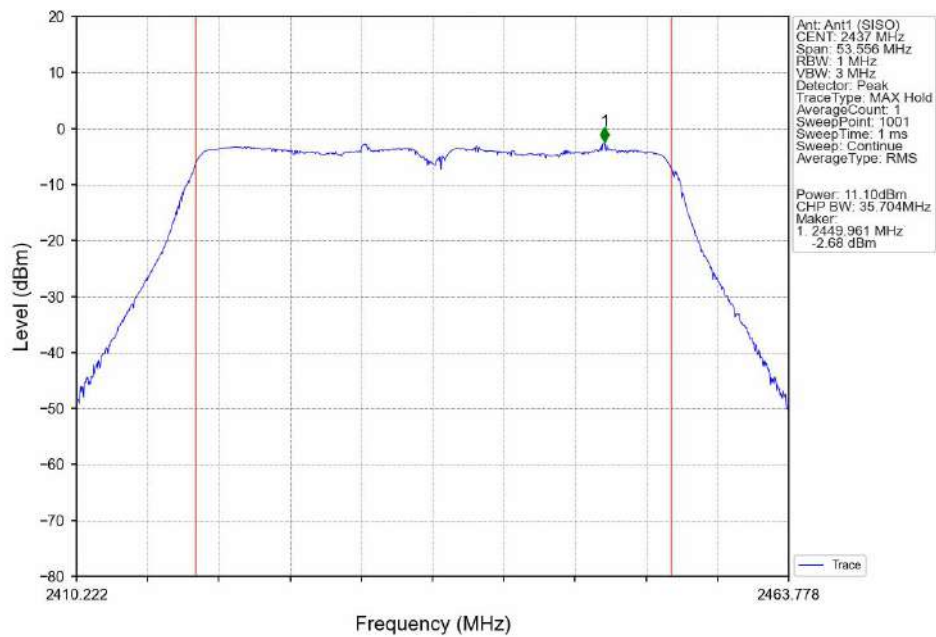
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



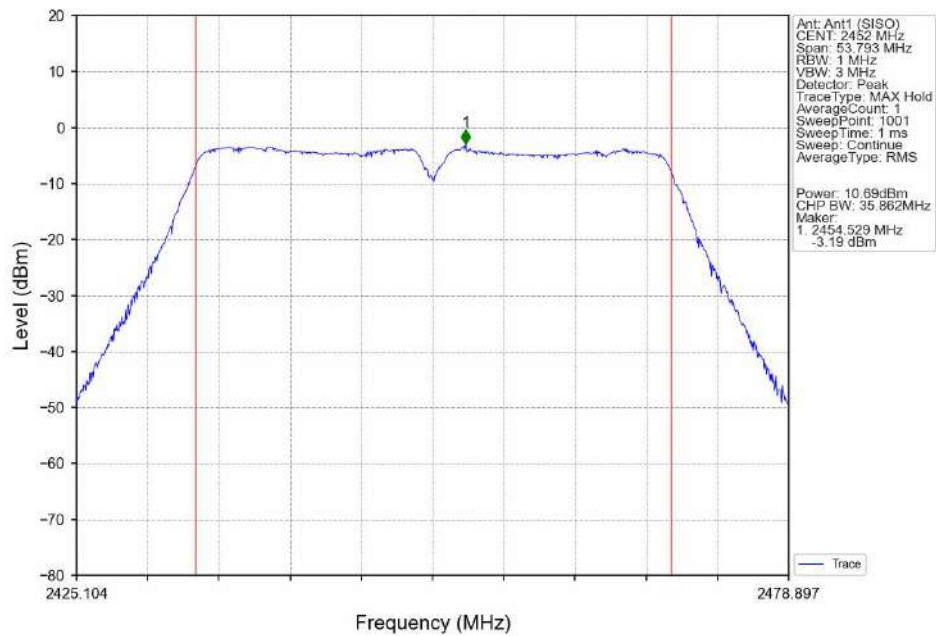
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



4. Maximum Power Spectral Density

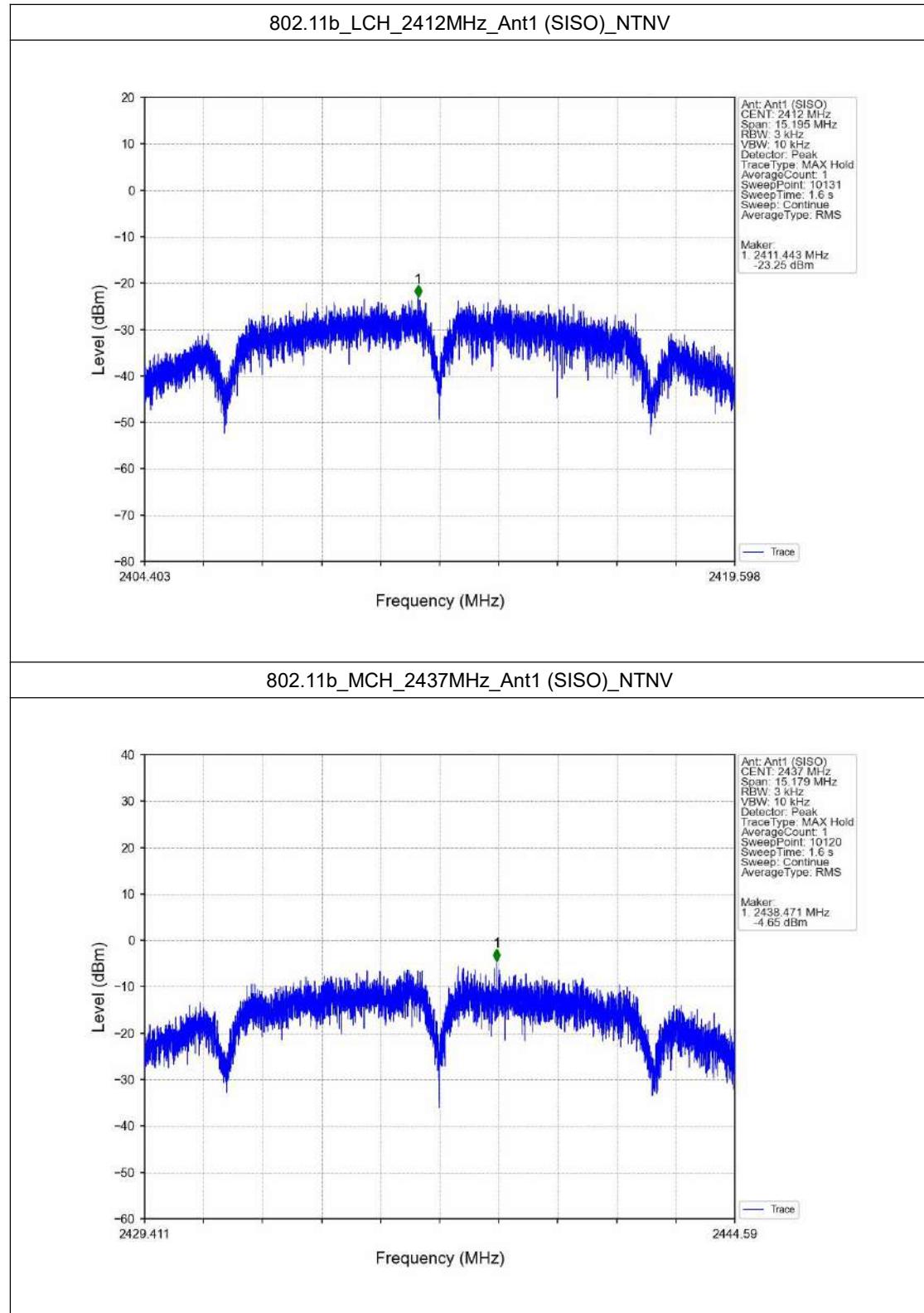
4.1 Test Result

4.1.1 PSD

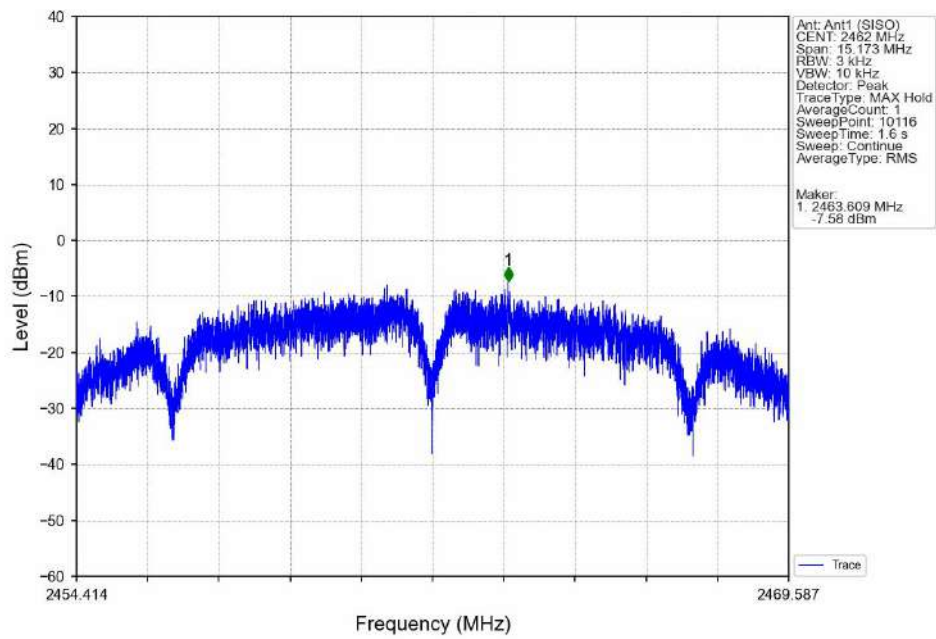
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
802.11b	SISO	2412	-23.25dBm/3kHz	<=8	Pass
		2437	-4.65dBm/3kHz	<=8	Pass
		2462	-7.58dBm/3kHz	<=8	Pass
802.11g	SISO	2412	-30.32dBm/3kHz	<=8	Pass
		2437	-10.77dBm/3kHz	<=8	Pass
		2462	-10.88dBm/3kHz	<=8	Pass
802.11n (HT20)	SISO	2412	-31.22dBm/3kHz	<=8	Pass
		2437	-10.40dBm/3kHz	<=8	Pass
		2462	-11.21dBm/3kHz	<=8	Pass
802.11n (HT40)	SISO	2422	-33.89dBm/3kHz	<=8	Pass
		2437	-12.35dBm/3kHz	<=8	Pass
		2452	-14.38dBm/3kHz	<=8	Pass
Note1: Antenna Gain: Ant1: 3.80dBi;					

4.2 Test Graph

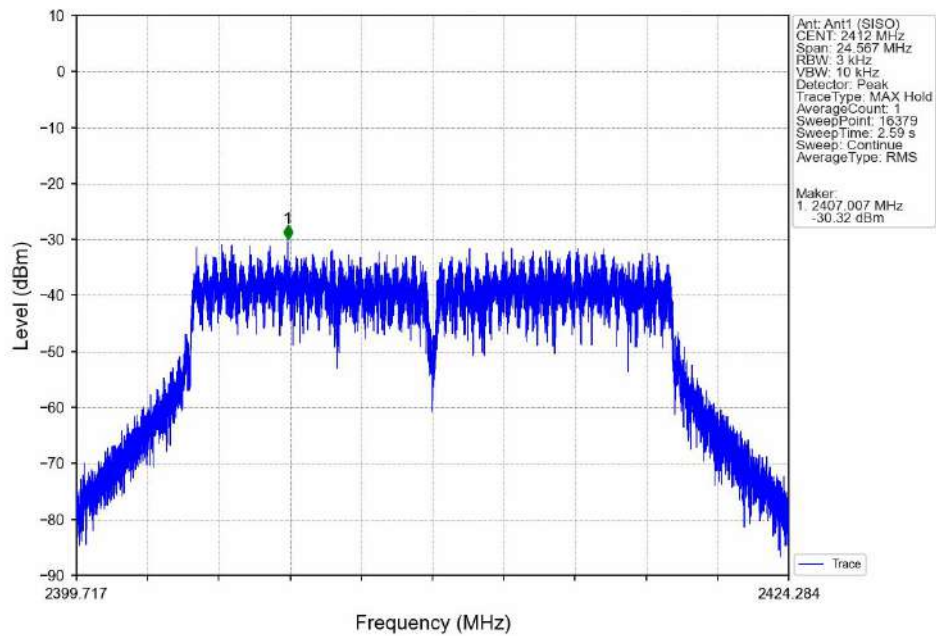
4.2.1 PSD



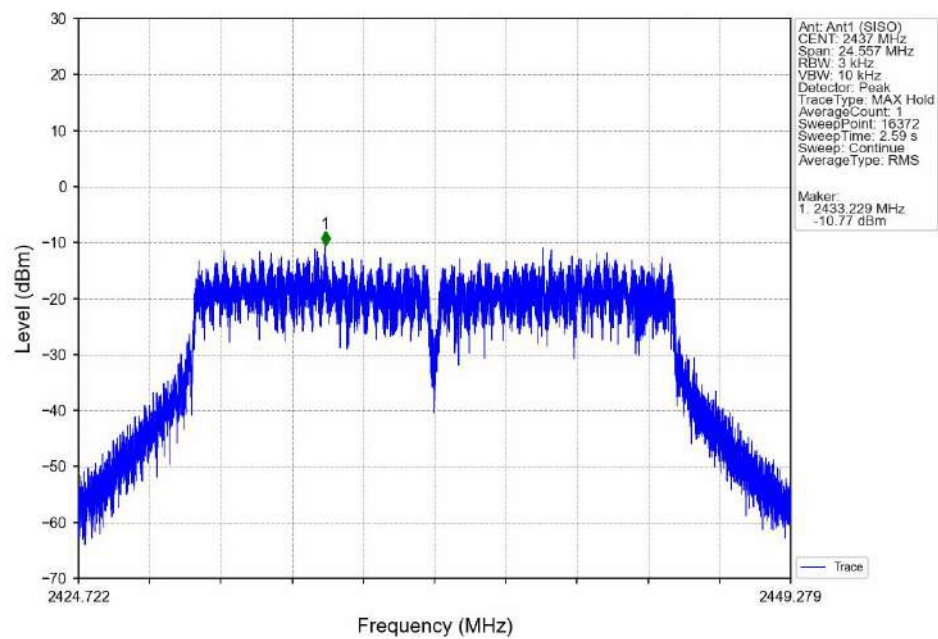
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



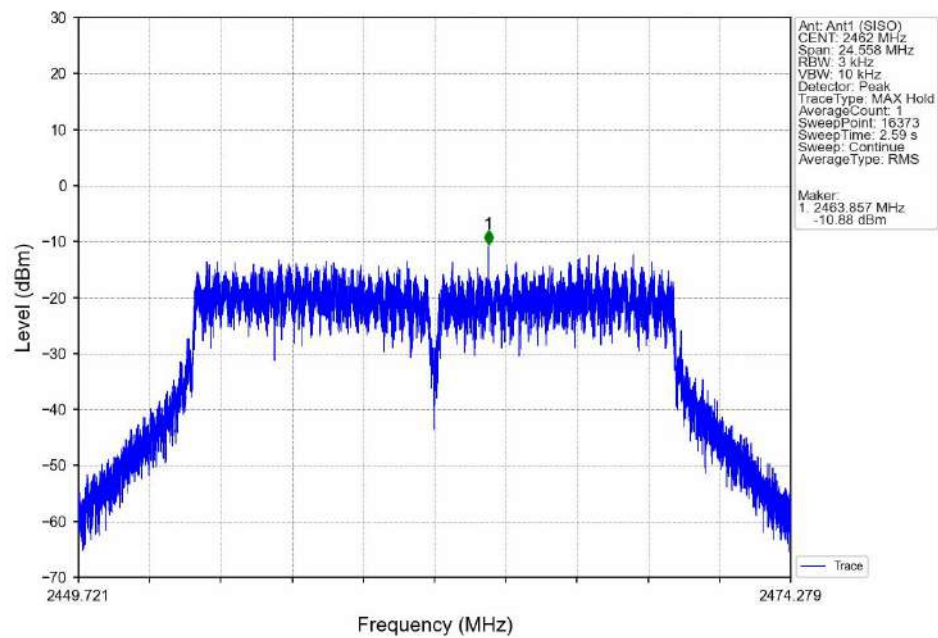
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



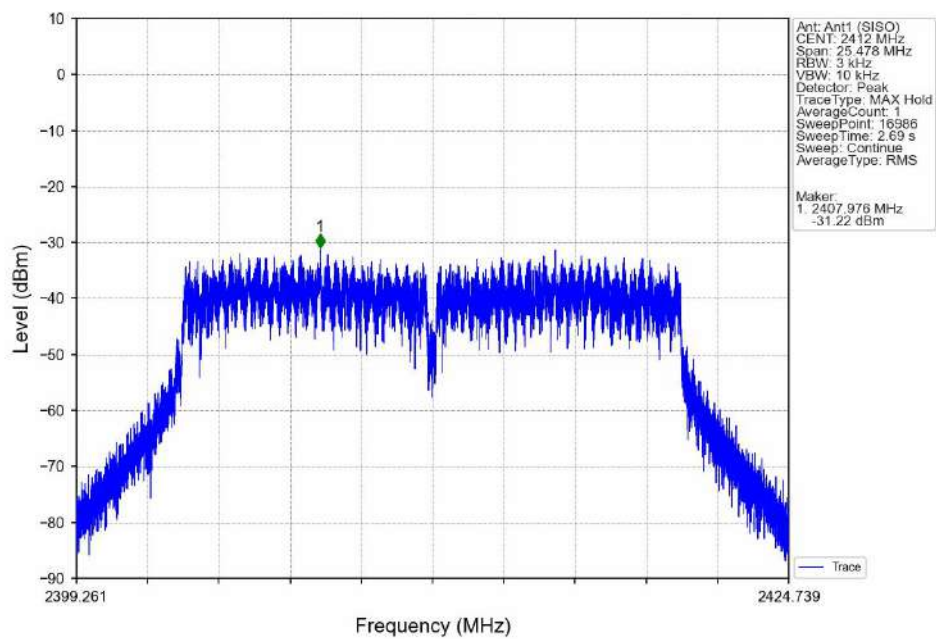
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



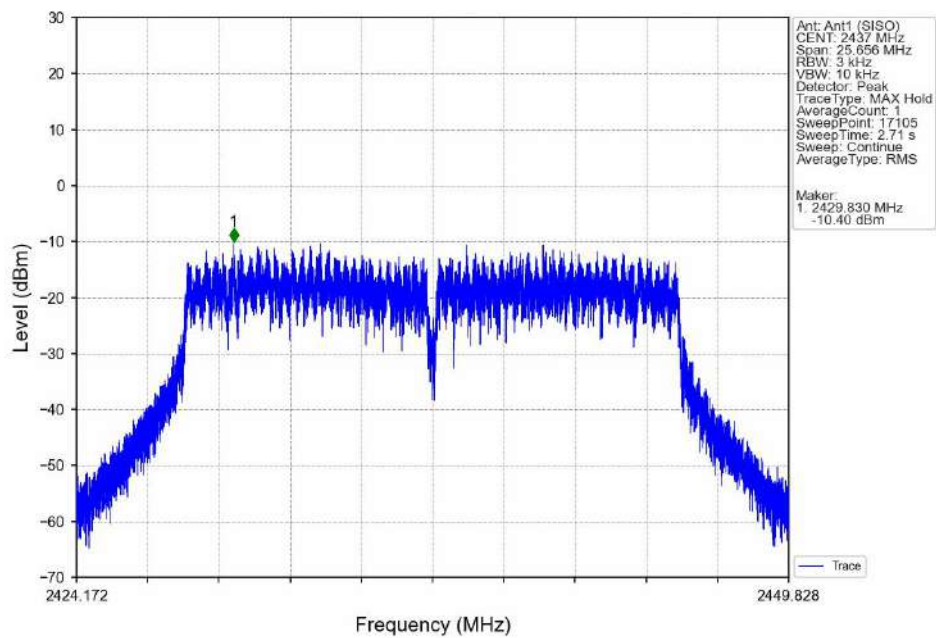
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



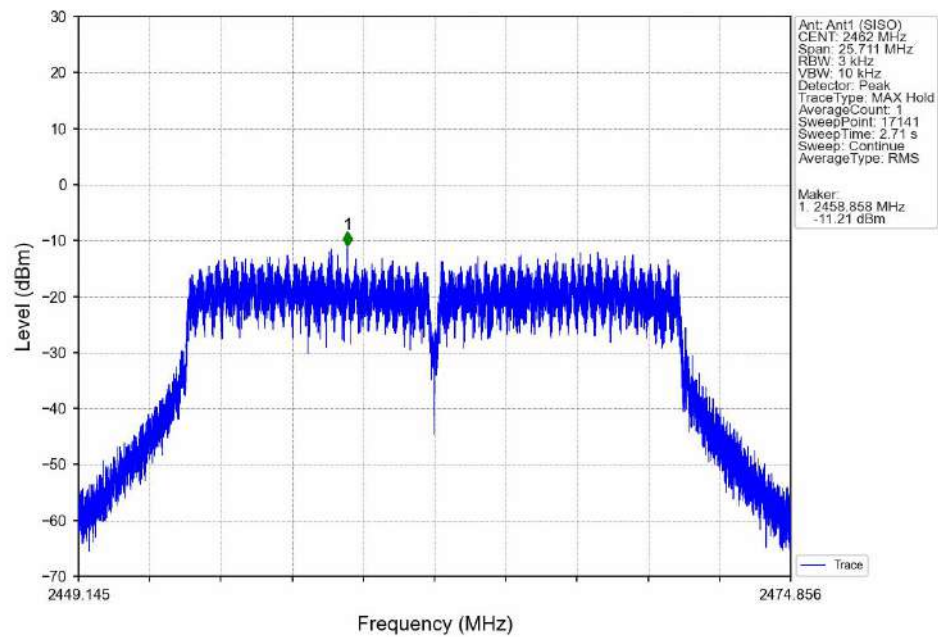
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



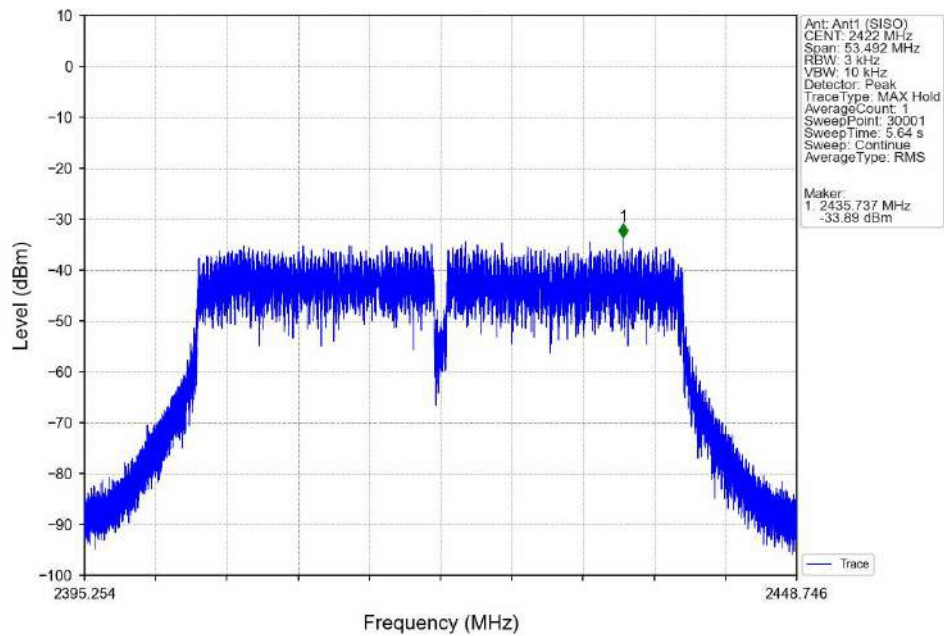
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



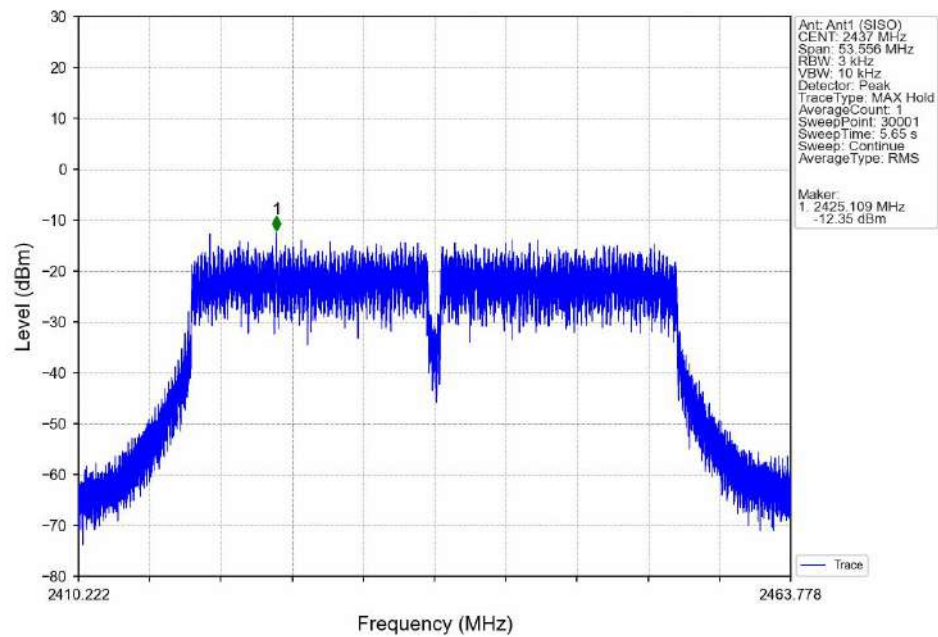
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



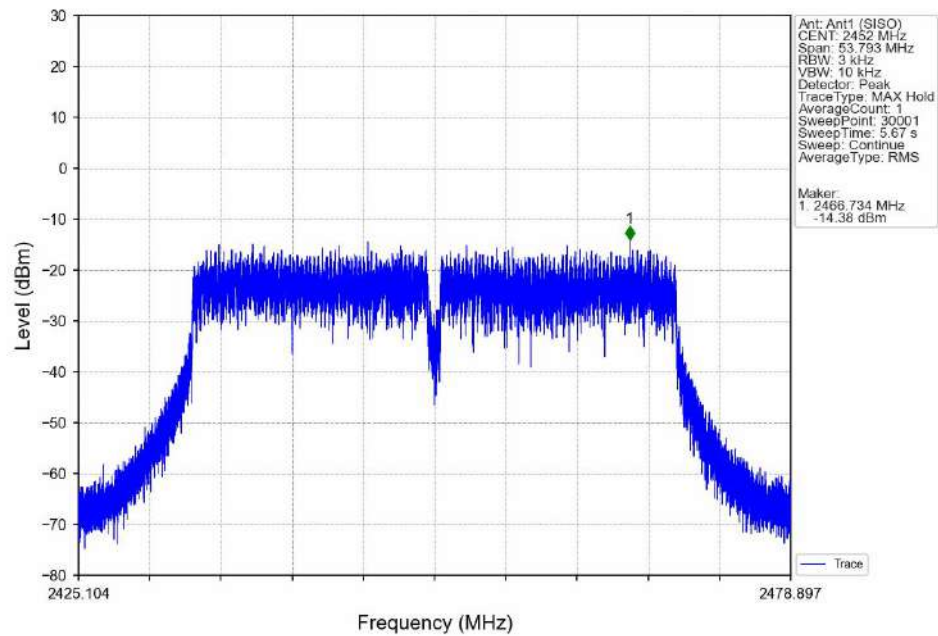
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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

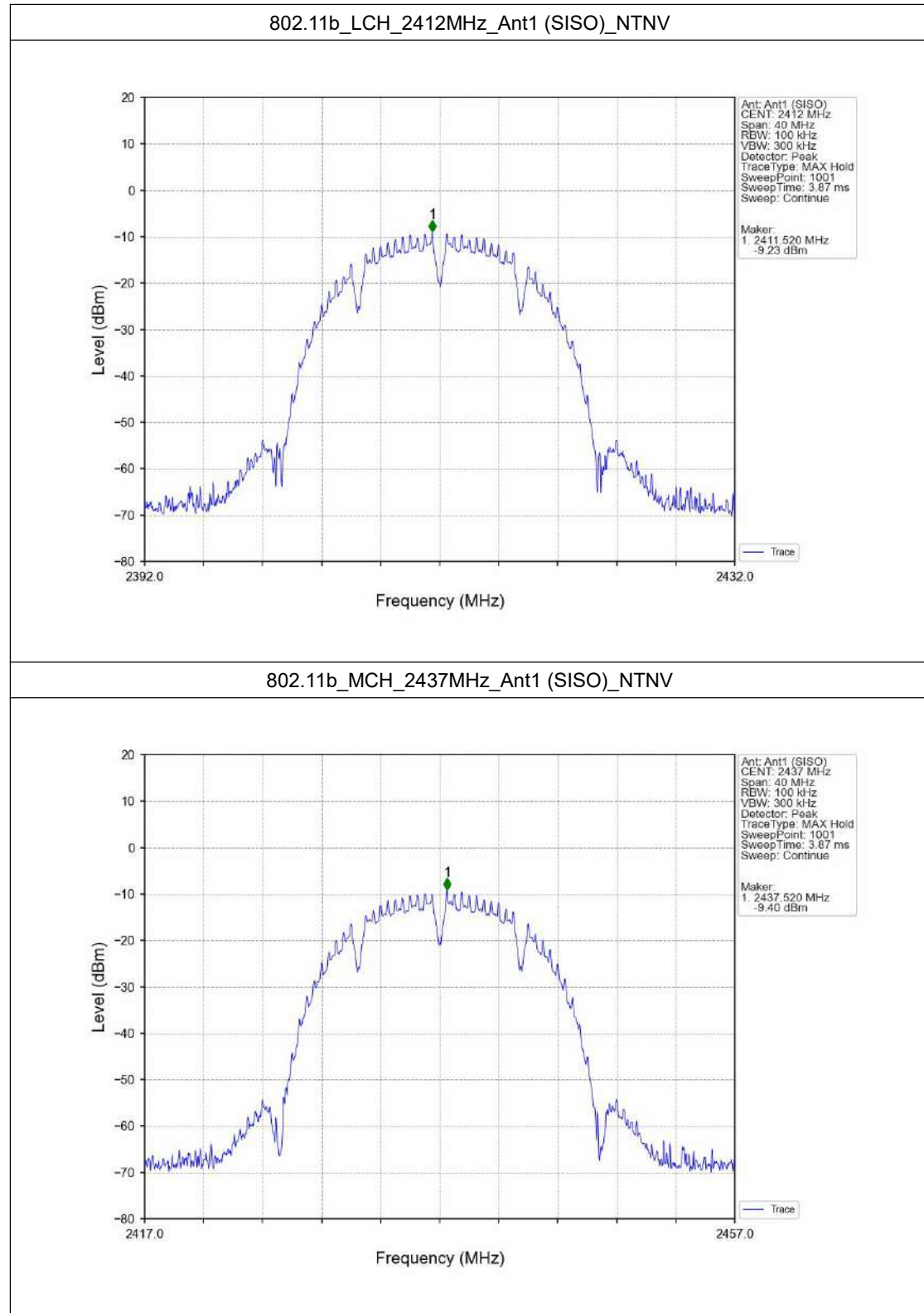
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-9.23
		2437	1	-9.40
		2462	1	-10.15
802.11g	SISO	2412	1	-16.42
		2437	1	-16.75
		2462	1	-17.39
802.11n (HT20)	SISO	2412	1	-17.15
		2437	1	-17.18
		2462	1	-17.79
802.11n (HT40)	SISO	2422	1	-20.57
		2437	1	-20.70
		2452	1	-21.03

5.1.2 CSE

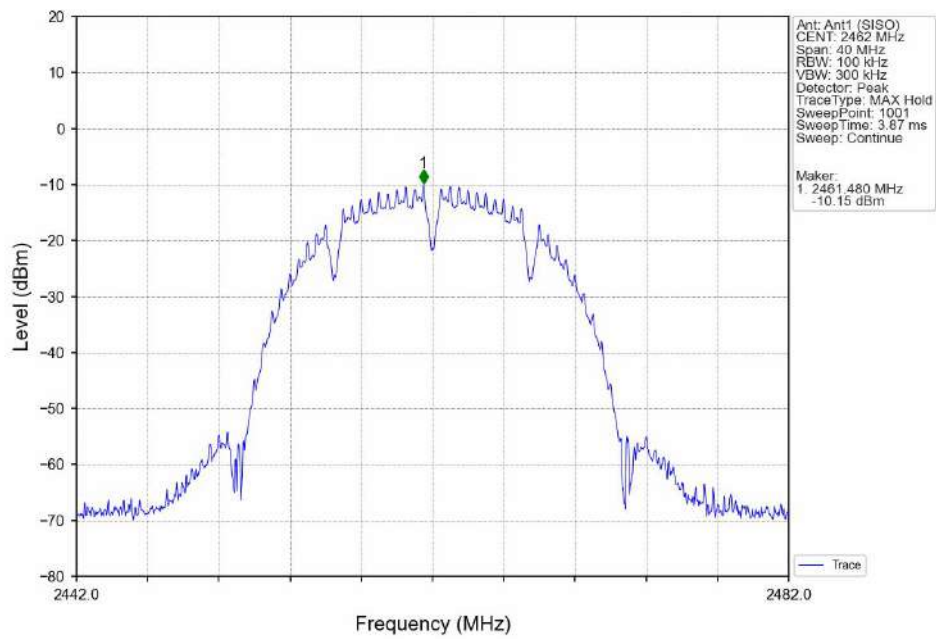
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-9.23	-29.23	Pass
		2437	1	-9.40	-29.40	Pass
		2462	1	-10.15	-30.15	Pass
802.11g	SISO	2412	1	-16.42	-36.42	Pass
		2437	1	-16.75	-36.75	Pass
		2462	1	-17.39	-37.39	Pass
802.11n (HT20)	SISO	2412	1	-17.15	-37.15	Pass
		2437	1	-17.18	-37.18	Pass
		2462	1	-17.79	-37.79	Pass
802.11n (HT40)	SISO	2422	1	-20.57	-40.57	Pass
		2437	1	-20.70	-40.70	Pass
		2452	1	-21.03	-41.03	Pass

5.2 Test Graph

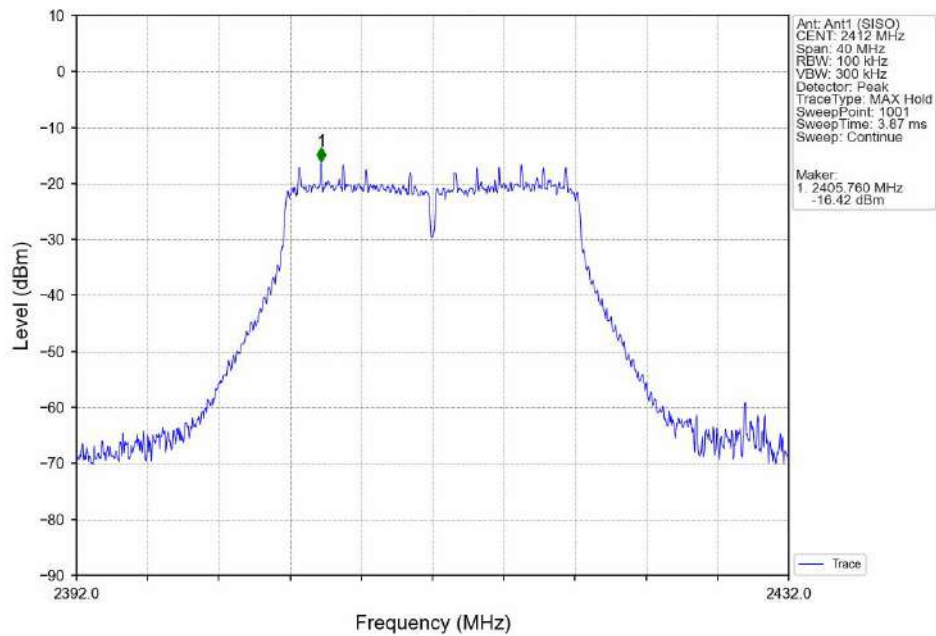
5.2.1 Ref



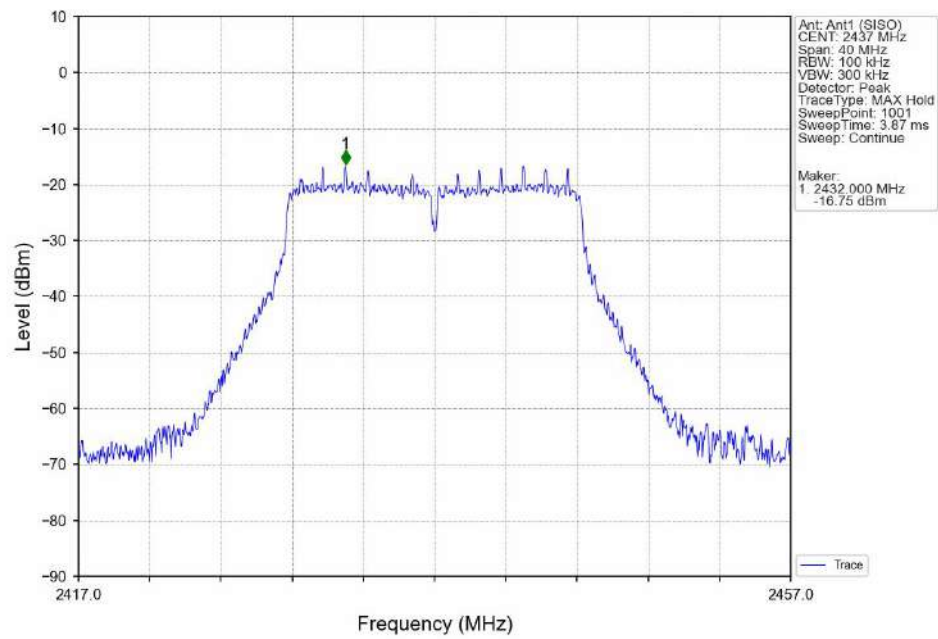
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



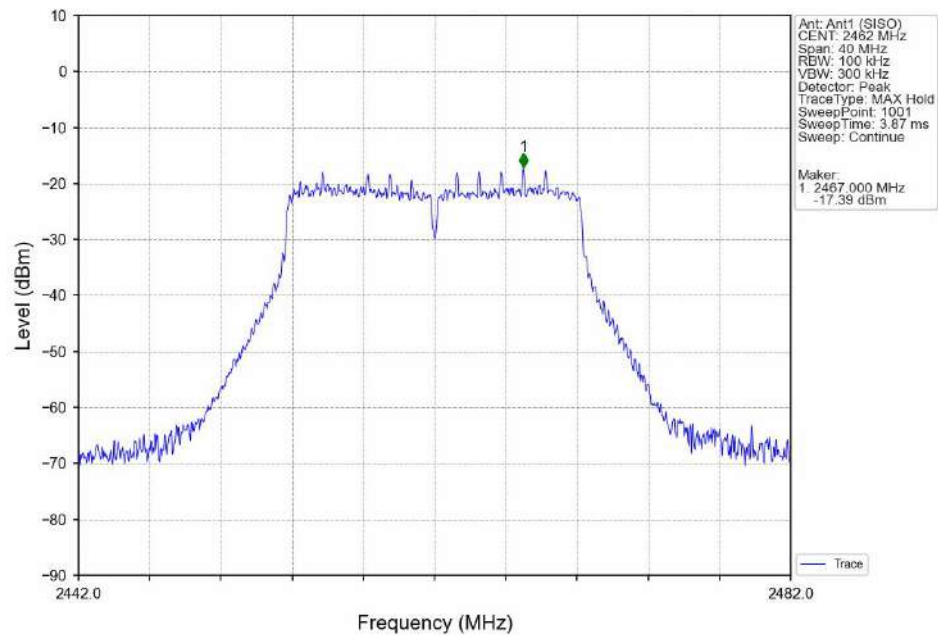
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



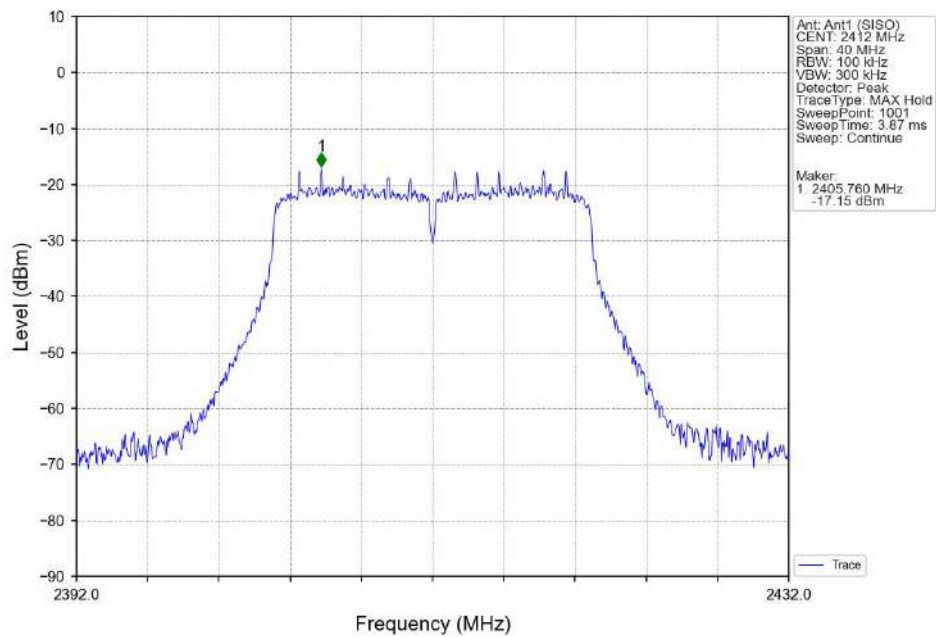
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



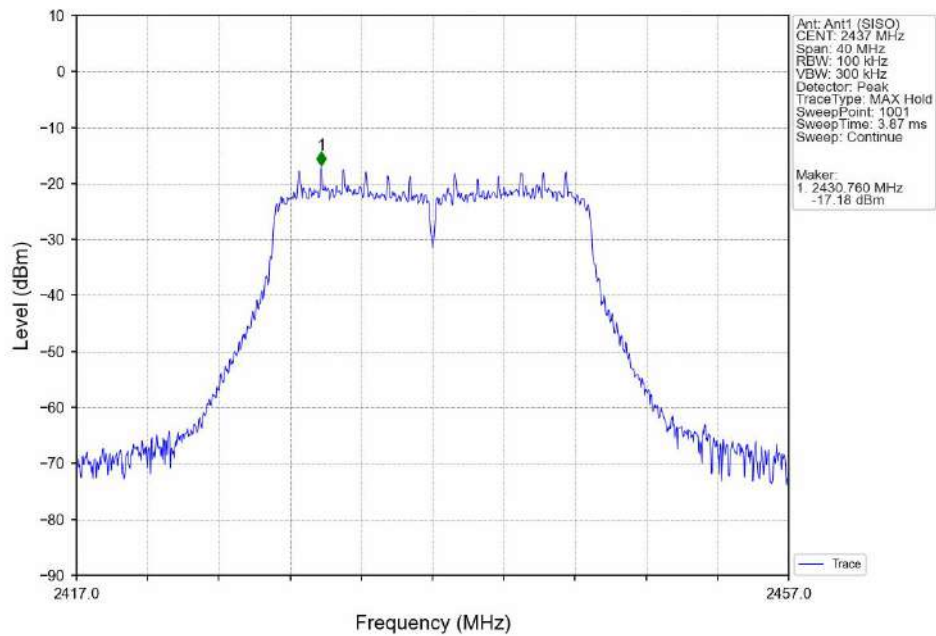
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



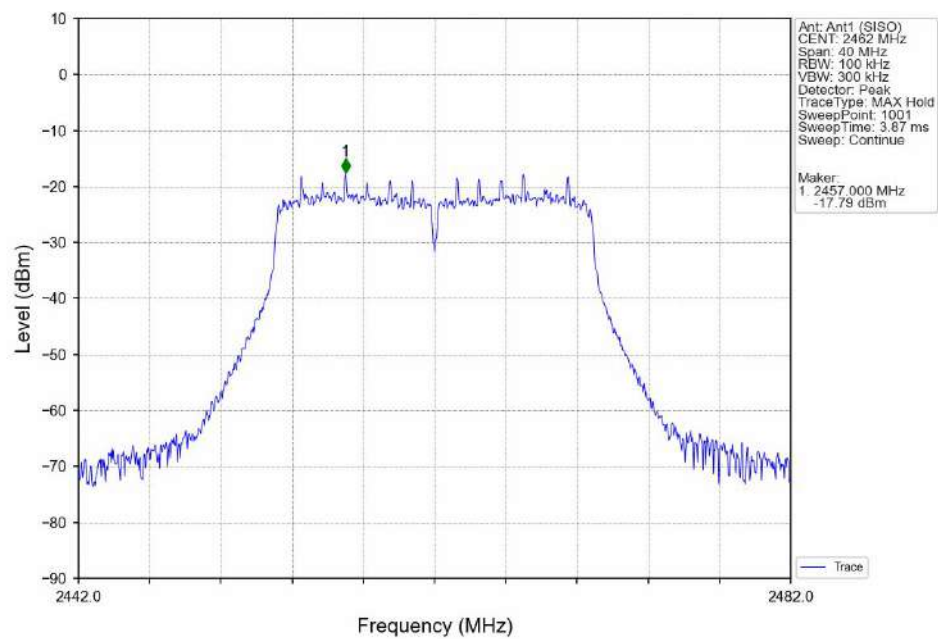
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



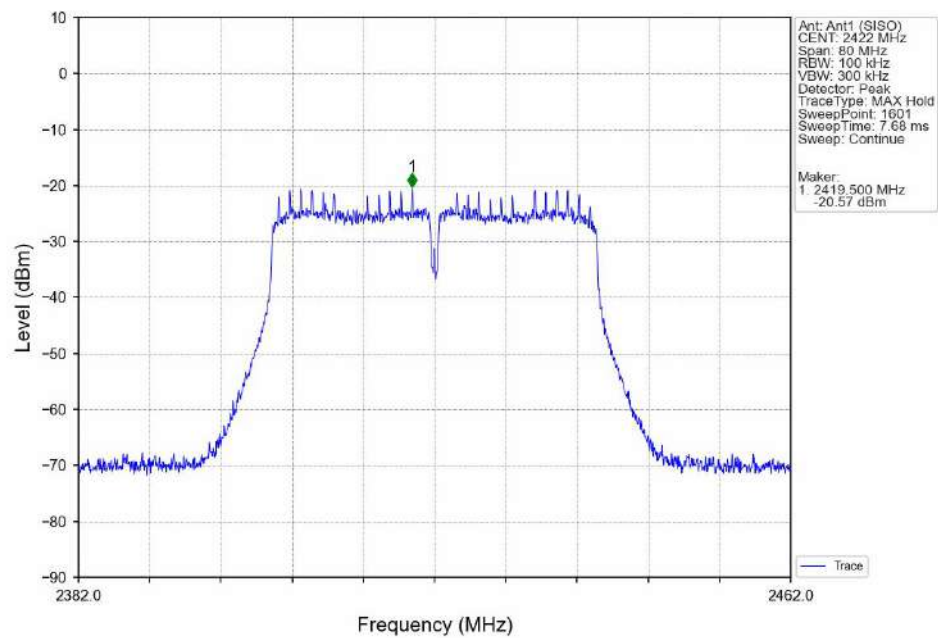
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



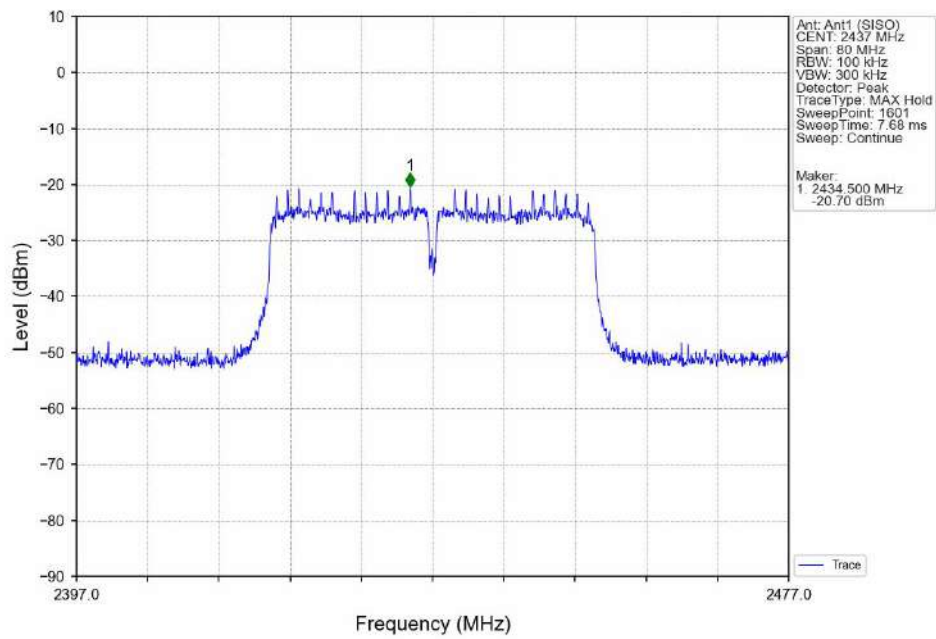
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



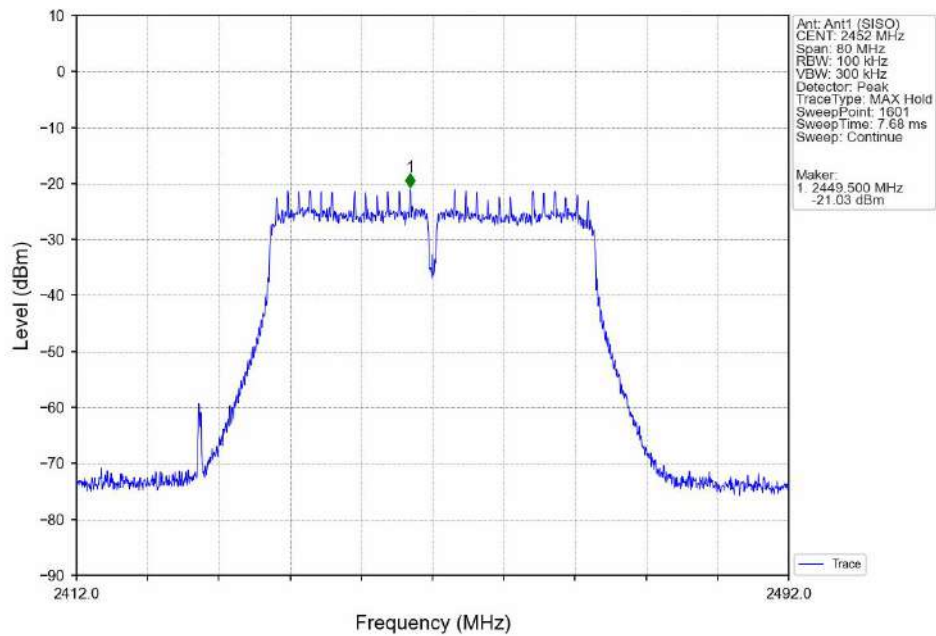
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



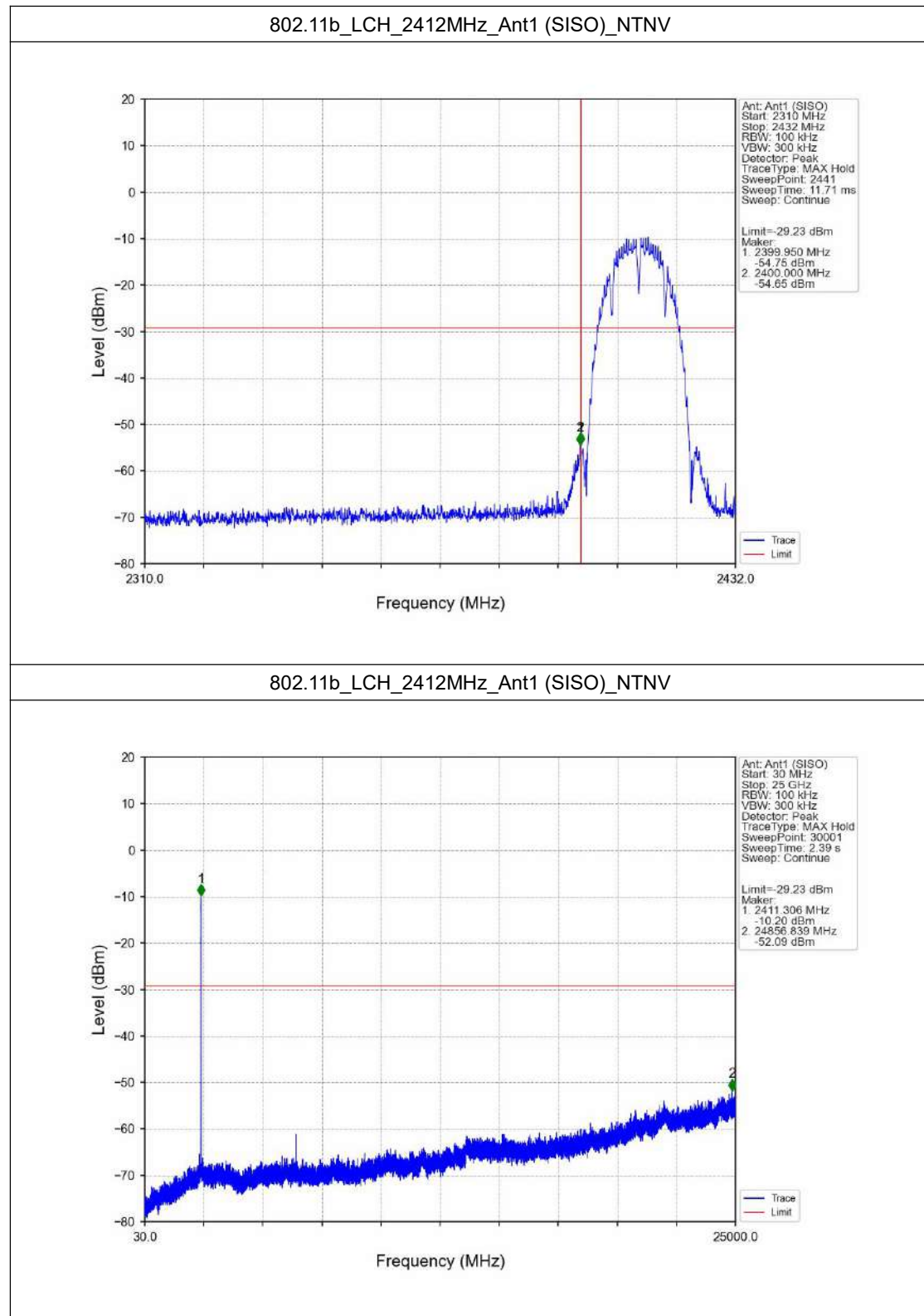
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



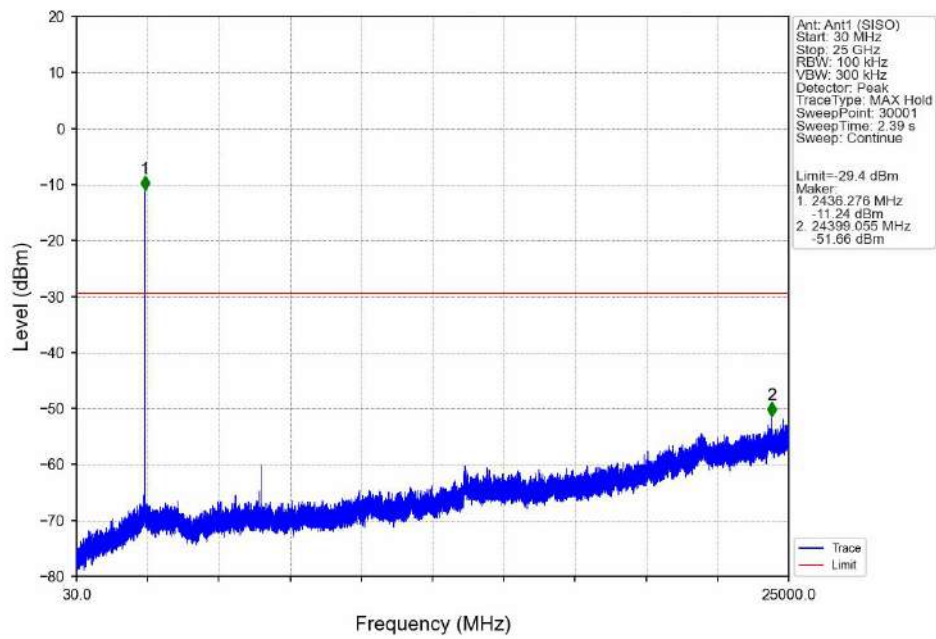
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



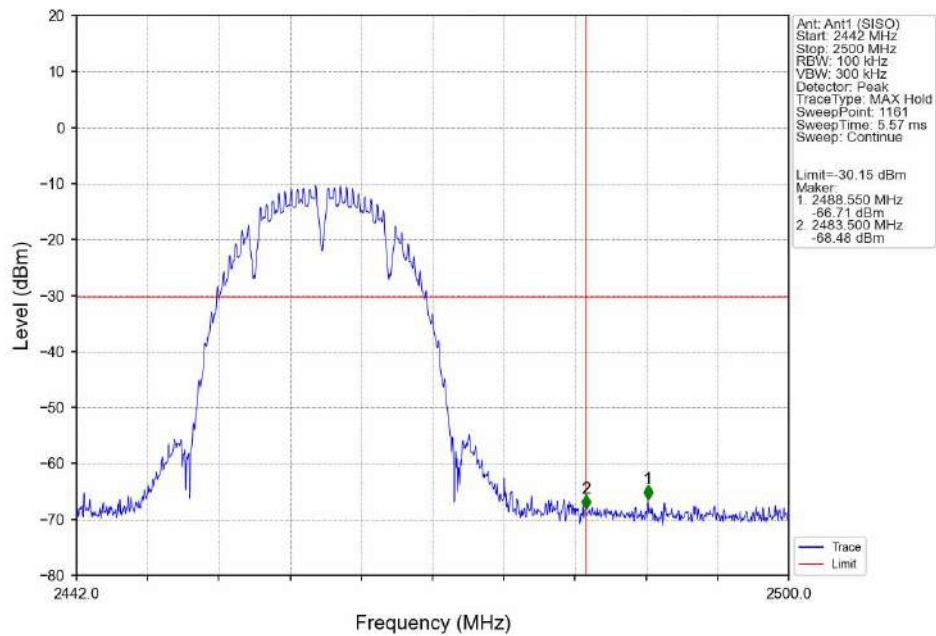
5.2.2 CSE



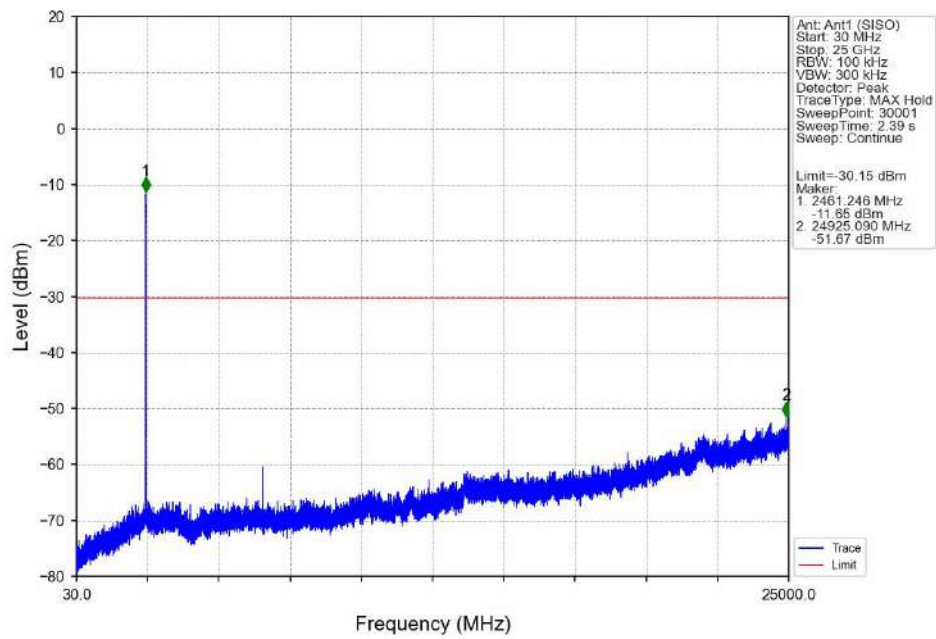
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



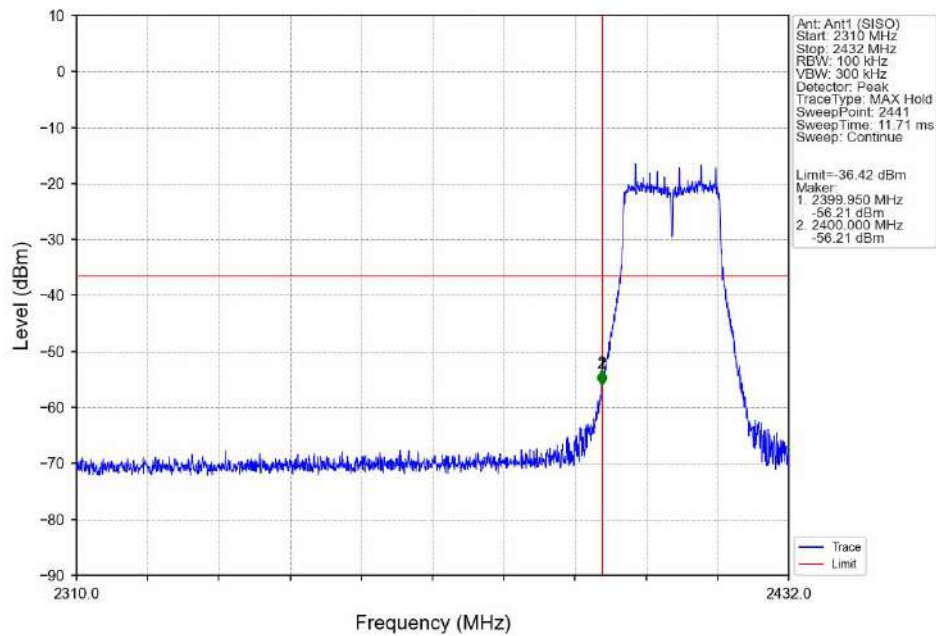
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



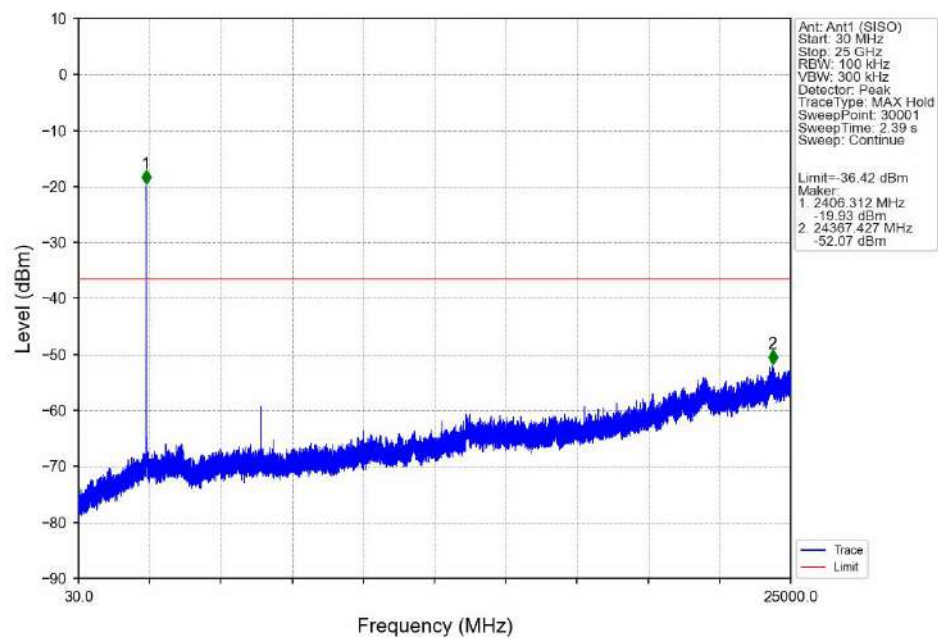
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



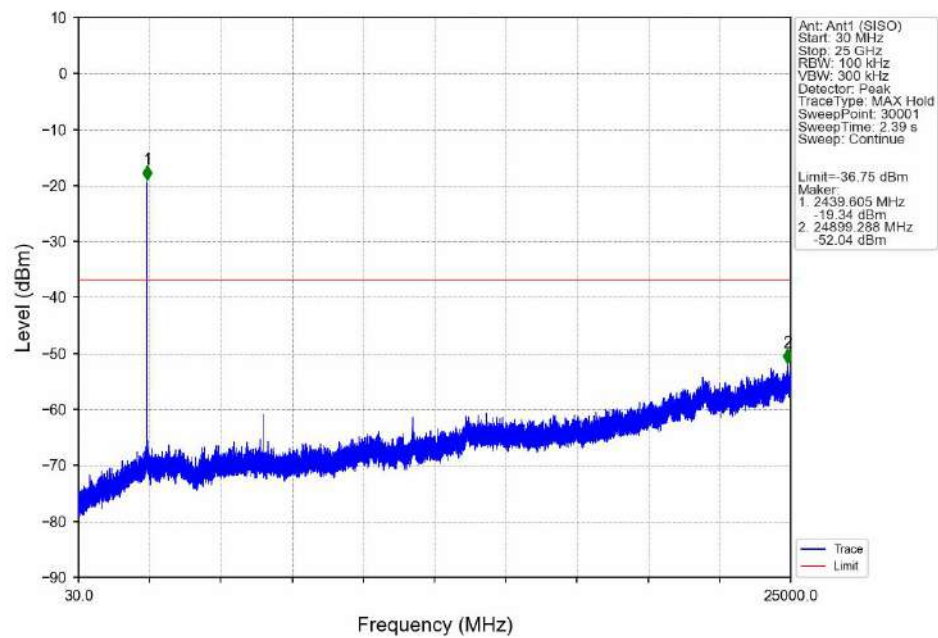
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



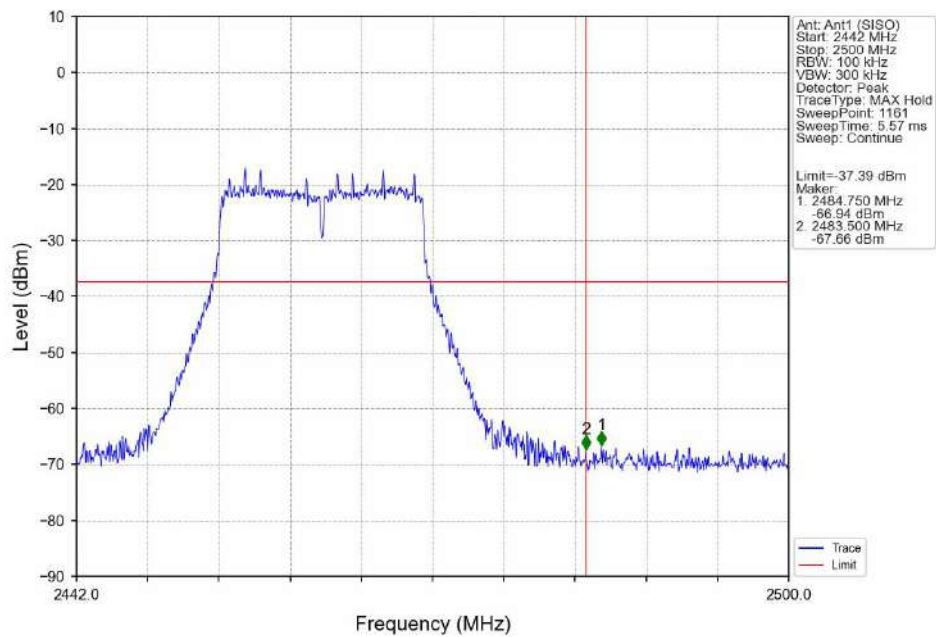
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



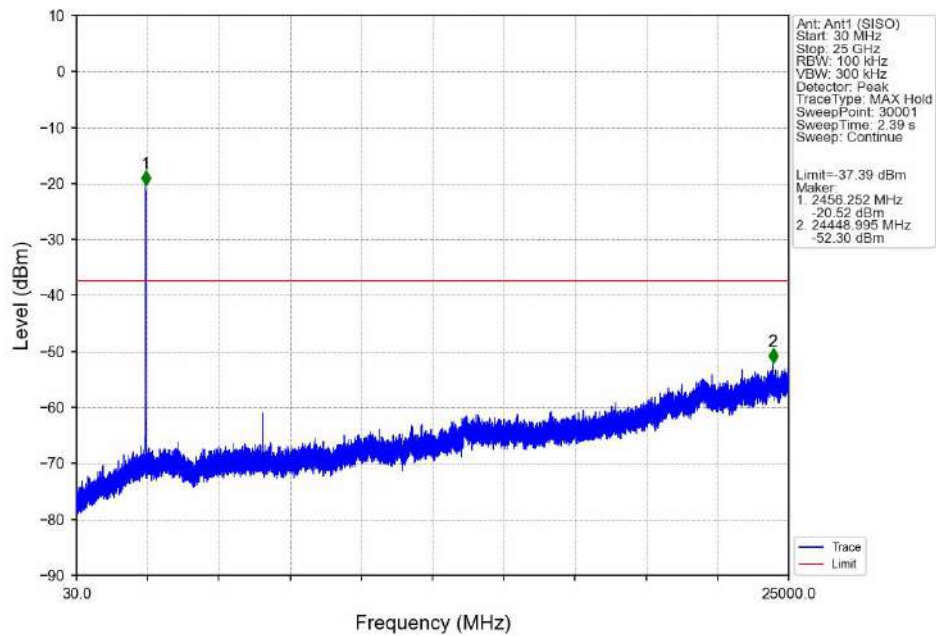
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



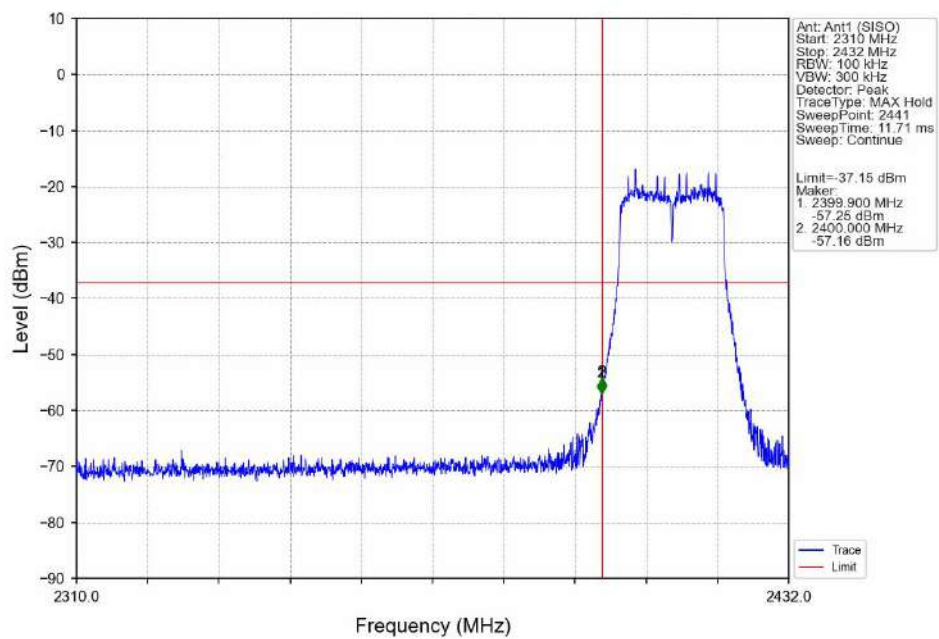
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



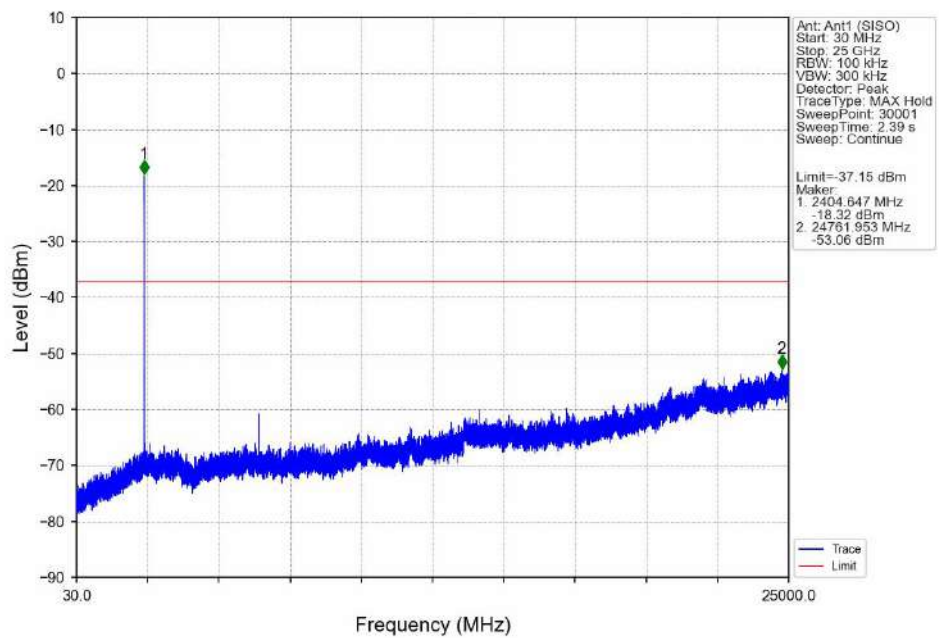
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



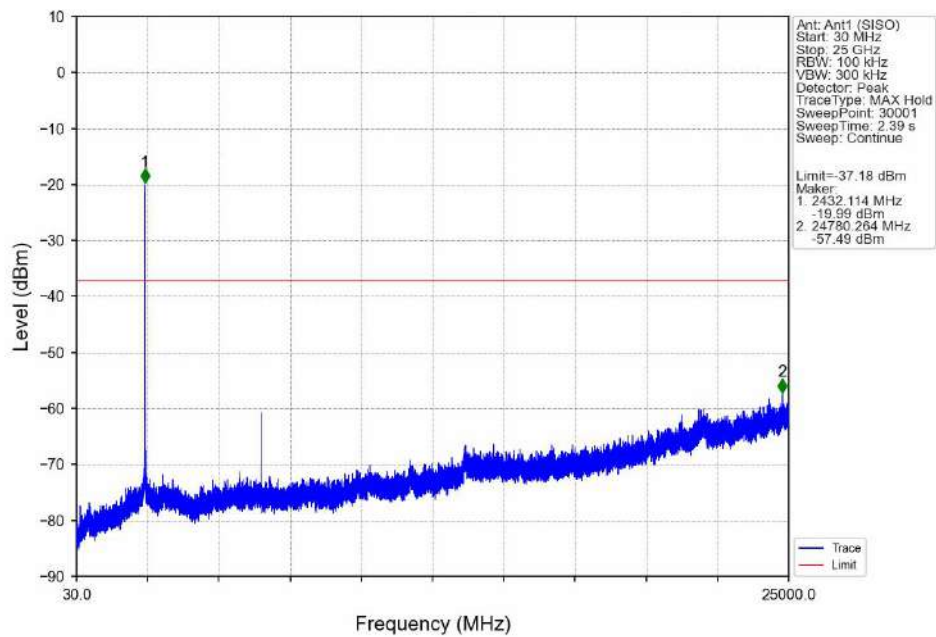
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



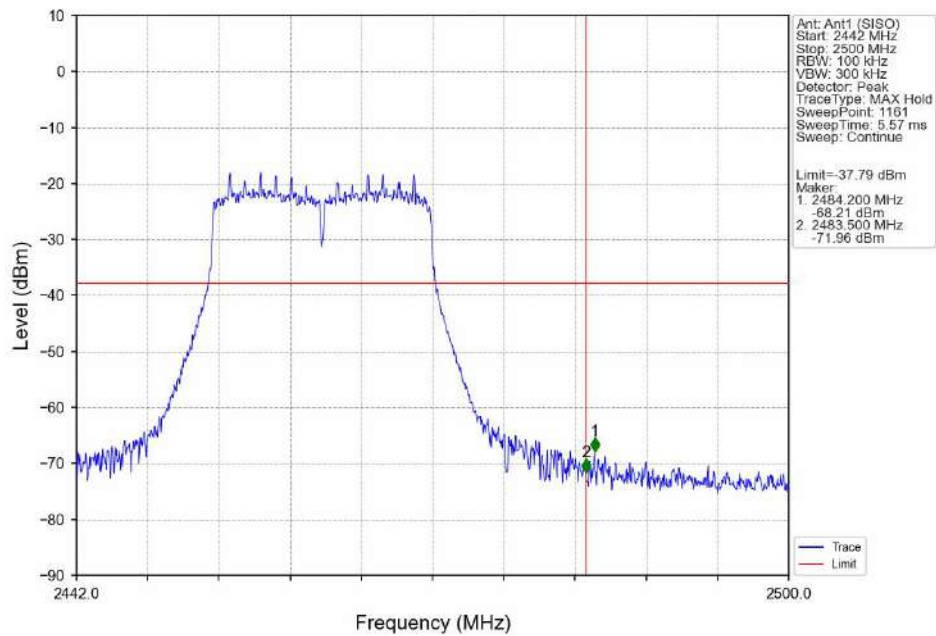
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



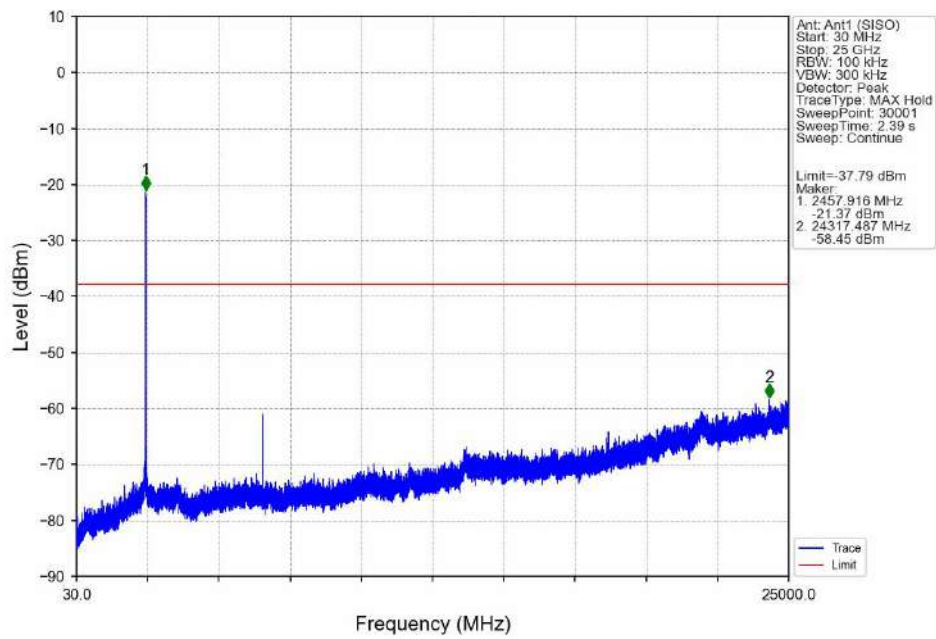
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



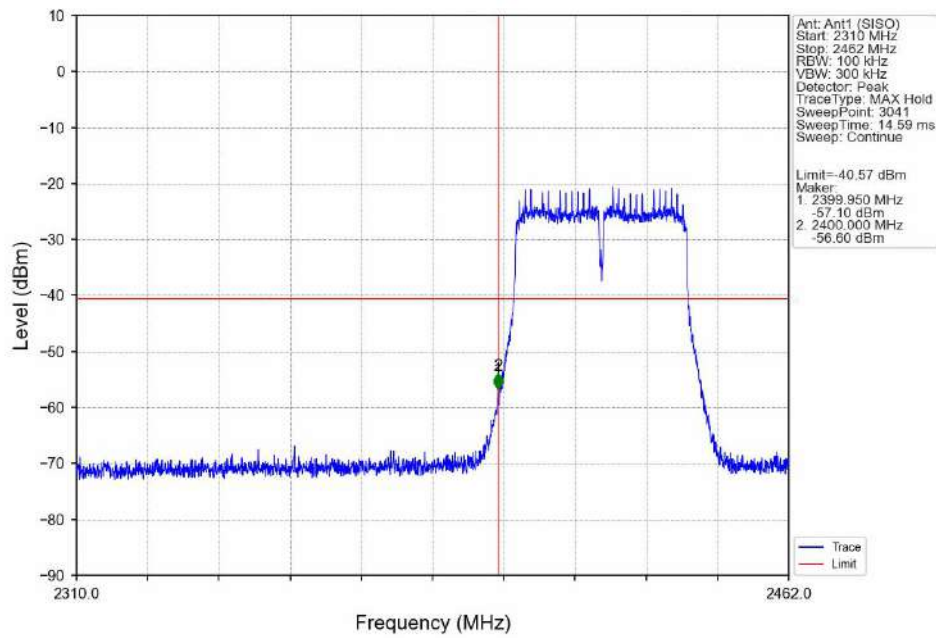
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



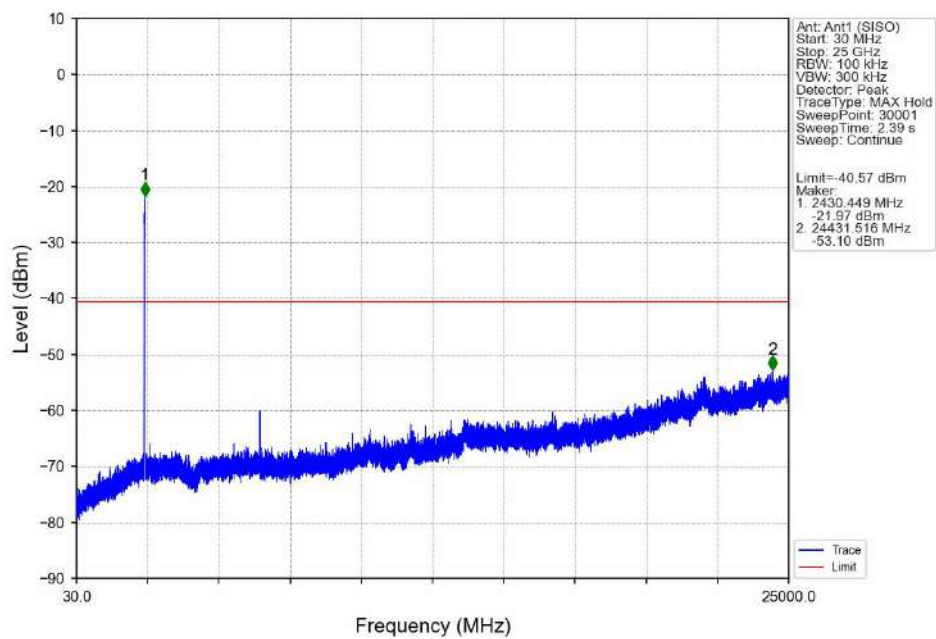
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



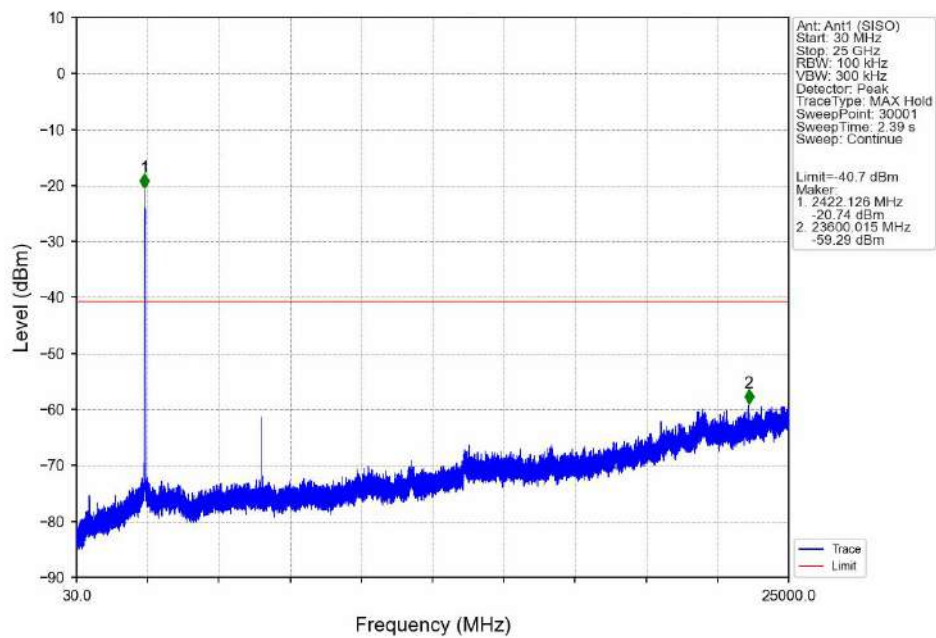
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



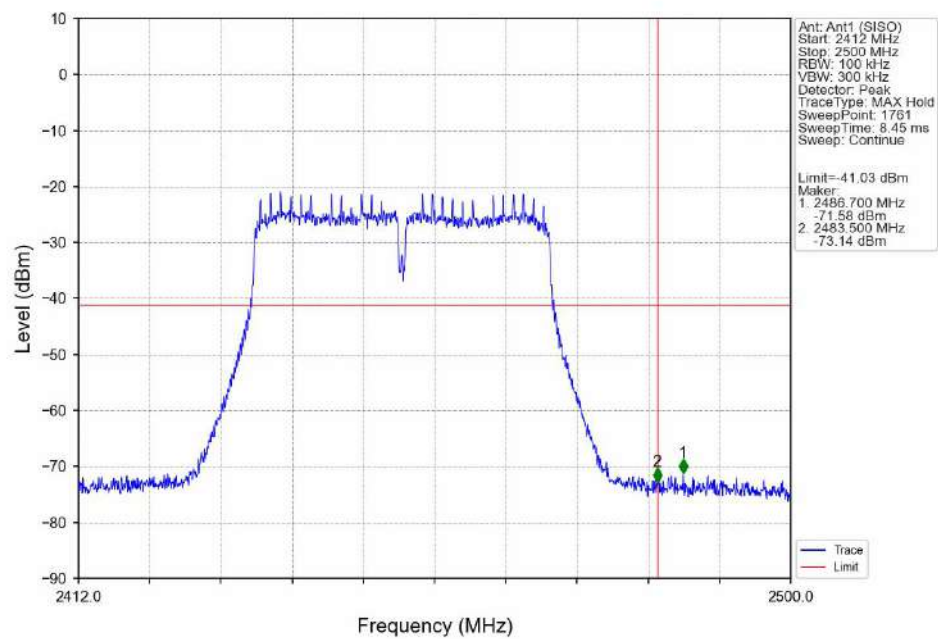
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



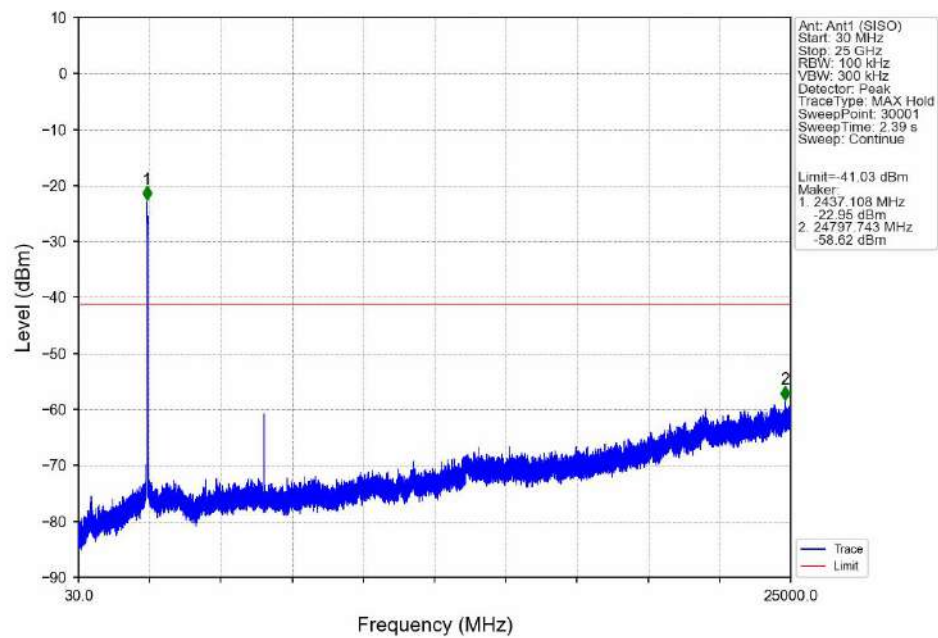
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



6. Form731

6.1 Test Result

6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.0145	11.61
2422	2452	0.0133	11.23