

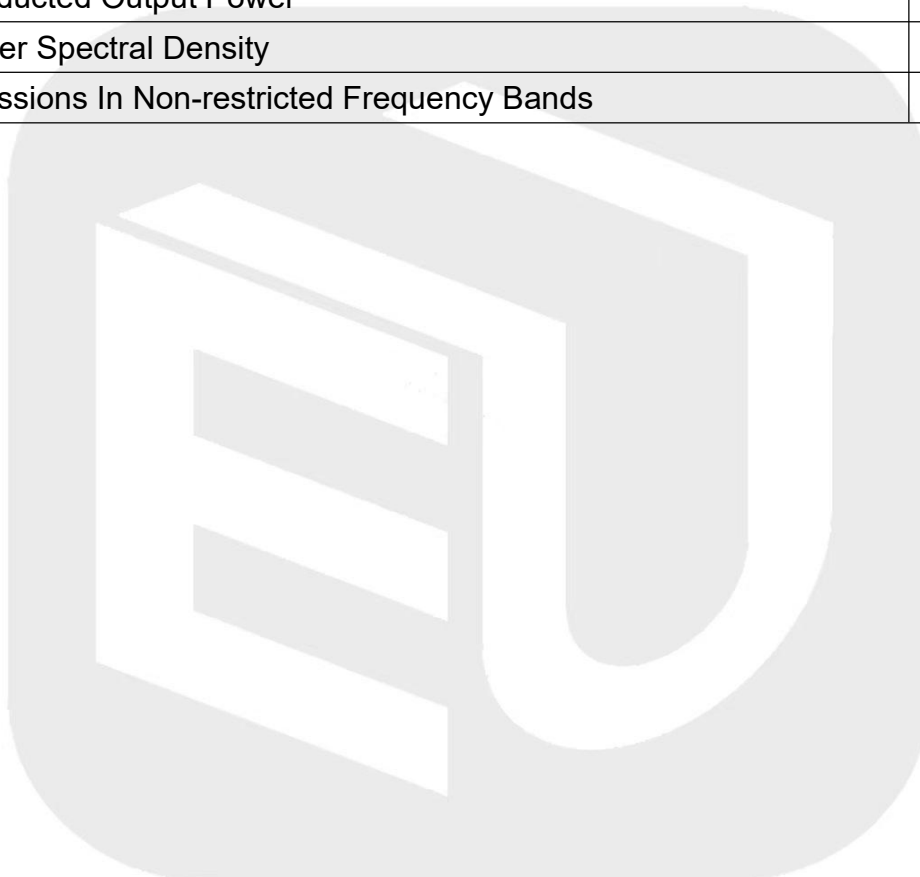
ANNEX E TEST DATA

For

Project No.:	8335EU013003W
Client:	Shenzhen Qianyan Technology LTD
Product Name:	Govee Edison Bulb
Model No.:	H14C0
FCC ID:	2A7VD-H14C0
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2025-12-15

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass



1. Duty Cycle

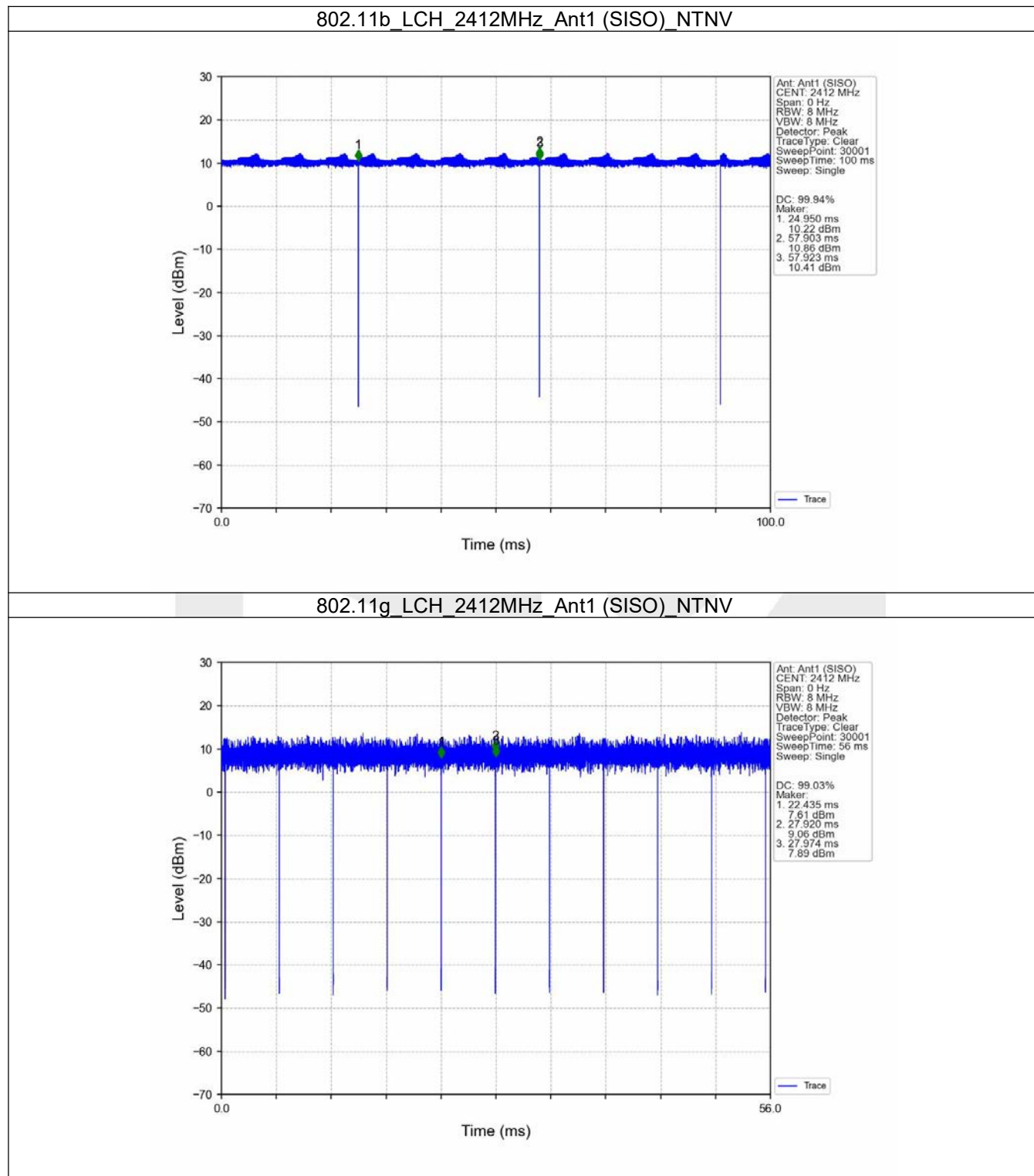
1.1 Test Result

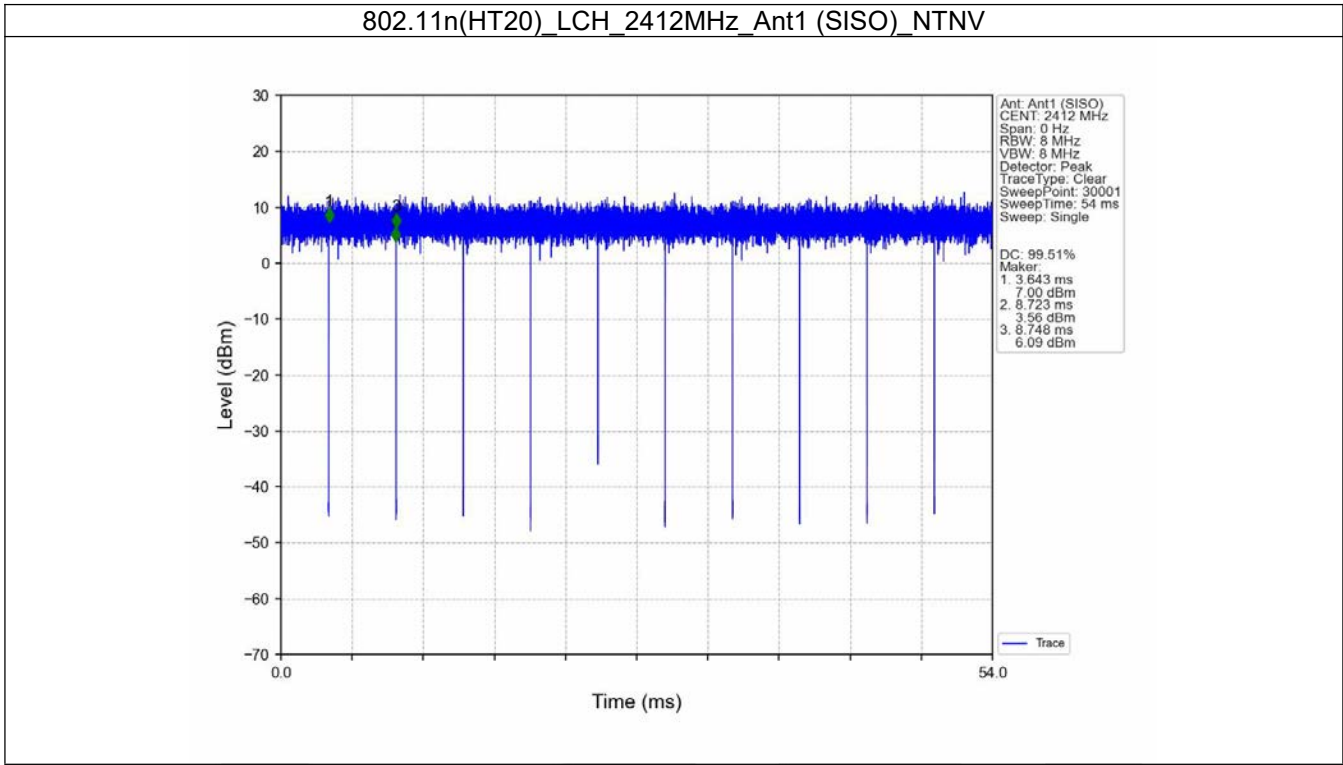
1.1.1 Ant1

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	32.953	32.973	99.94	0.00	0.01
802.11g	SISO	2412	5.485	5.539	99.03	0.04	0.54
802.11n (HT20)	SISO	2412	5.080	5.105	99.51	0.02	0.23

1.2 Test Graph

1.2.1 Ant1





2. Bandwidth

2.1 Test Result

2.1.1 OBW

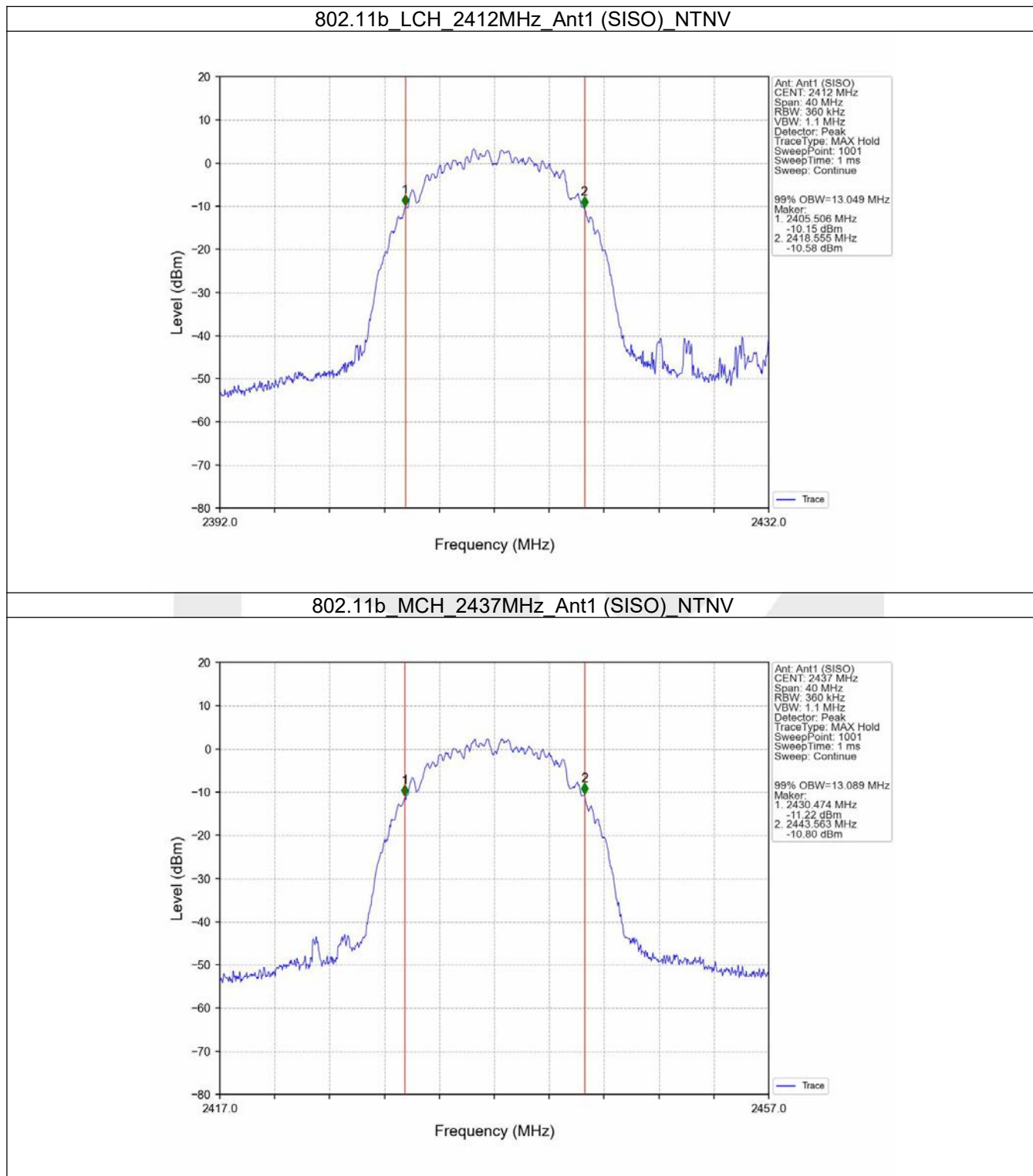
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.049	/	Pass
		2437	1	13.089	/	Pass
		2462	1	13.074	/	Pass
802.11g	SISO	2412	1	17.202	/	Pass
		2437	1	17.227	/	Pass
		2462	1	17.255	/	Pass
802.11n (HT20)	SISO	2412	1	17.821	/	Pass
		2437	1	17.801	/	Pass
		2462	1	17.835	/	Pass

2.1.2 6dB BW

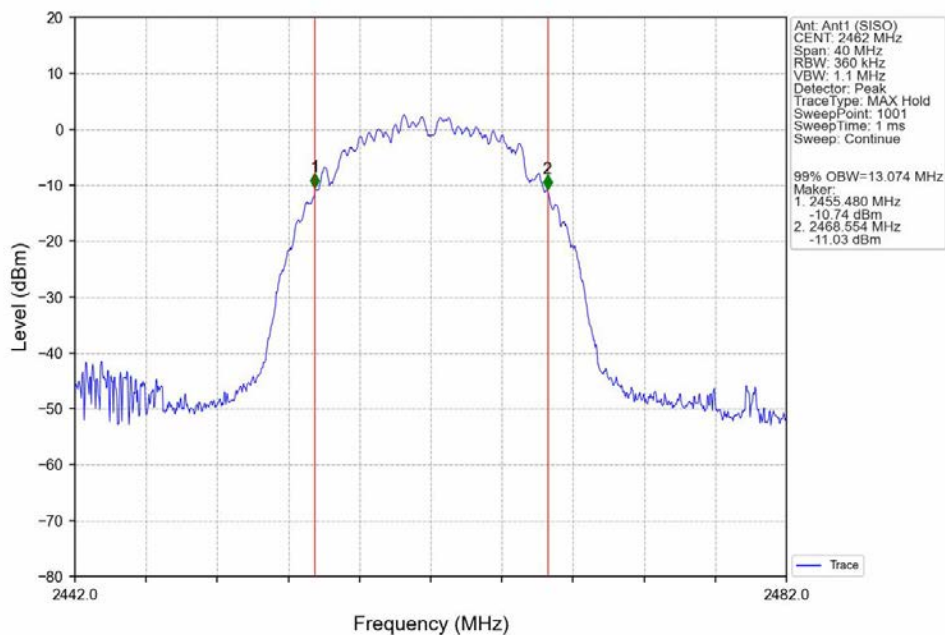
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.703	≥ 0.5	Pass
		2437	1	9.745	≥ 0.5	Pass
		2462	1	9.647	≥ 0.5	Pass
802.11g	SISO	2412	1	16.686	≥ 0.5	Pass
		2437	1	16.768	≥ 0.5	Pass
		2462	1	16.882	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.665	≥ 0.5	Pass
		2437	1	17.636	≥ 0.5	Pass
		2462	1	17.579	≥ 0.5	Pass

2.2 Test Graph

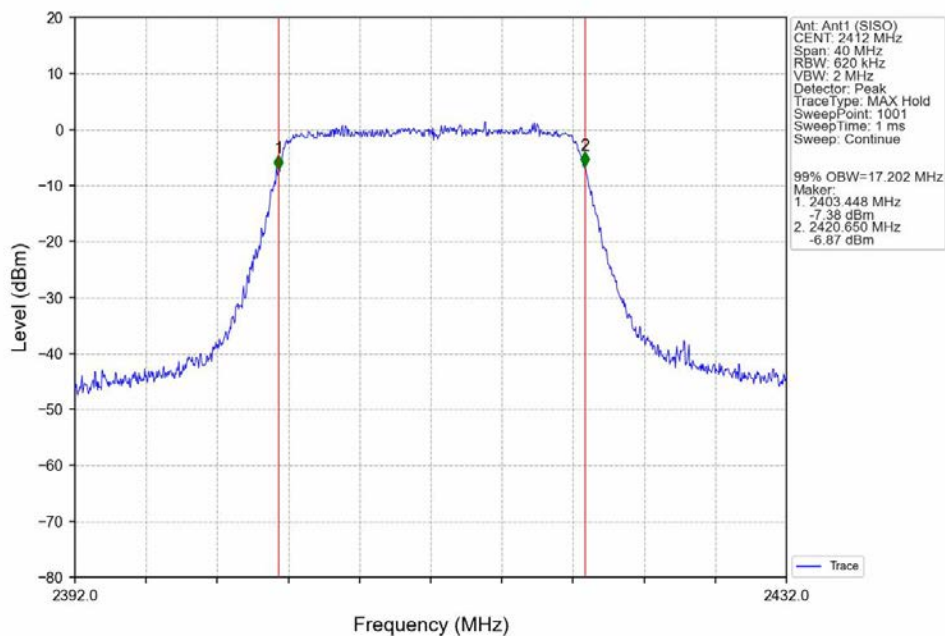
2.2.1 OBW



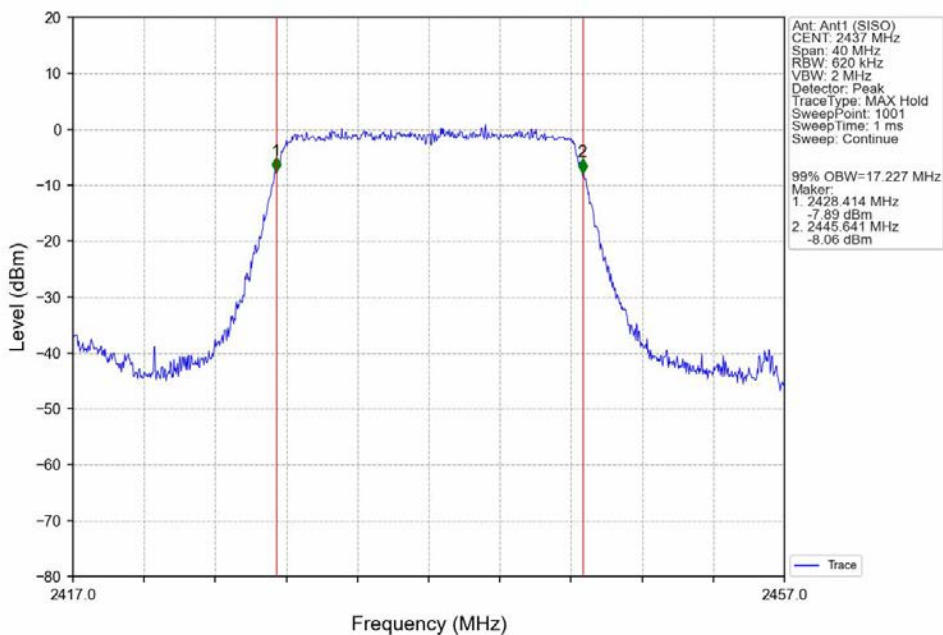
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



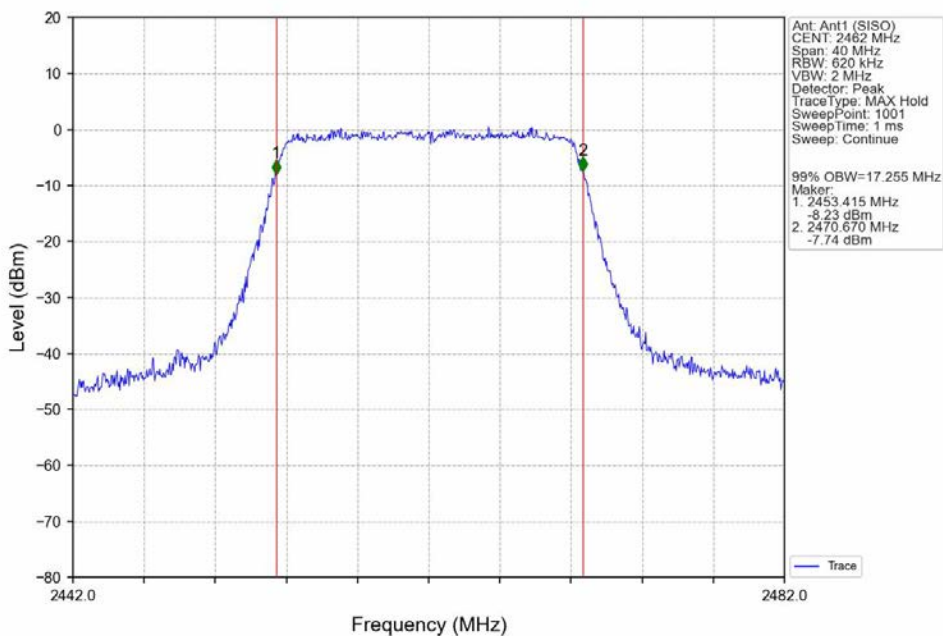
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



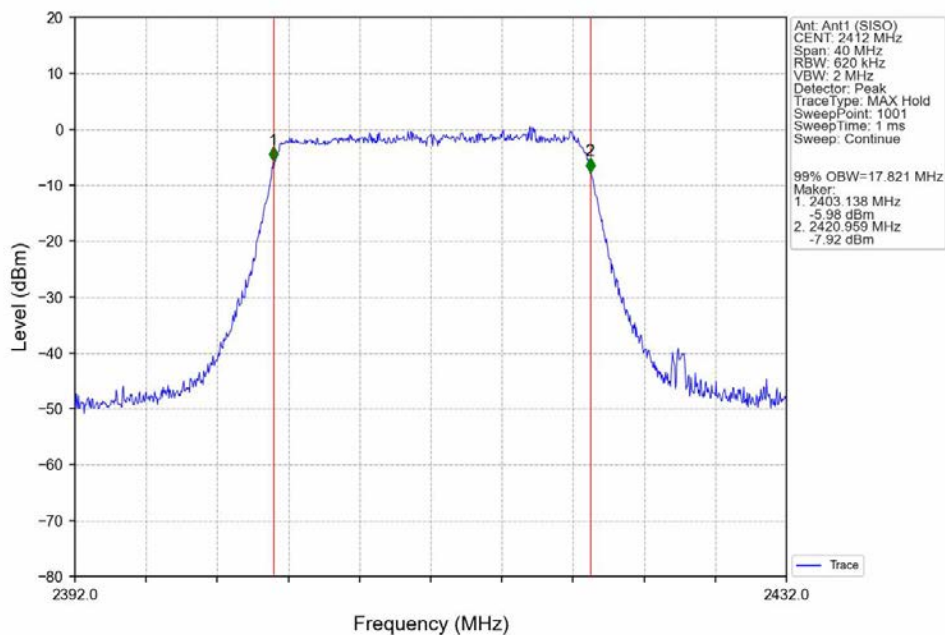
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



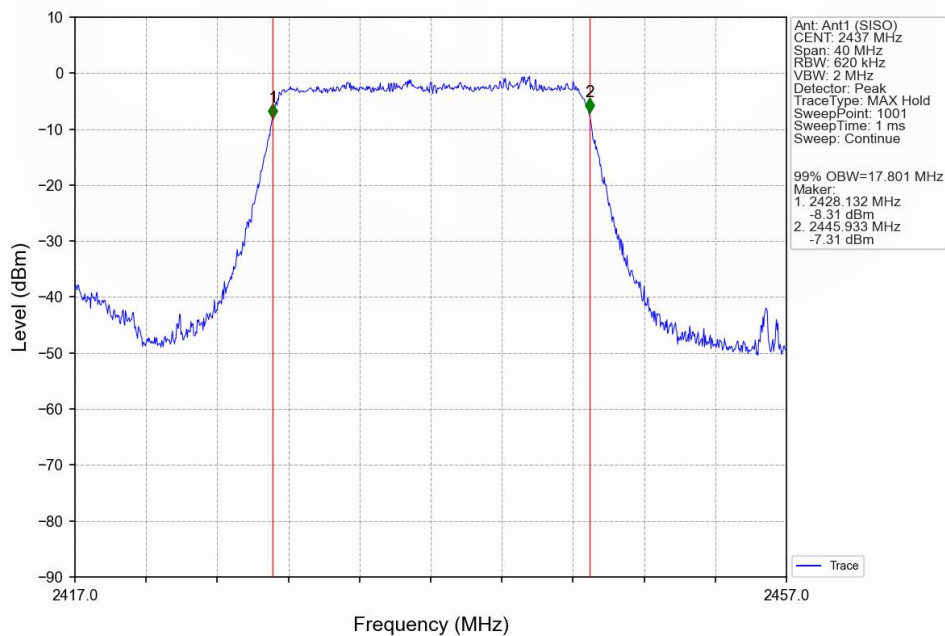
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

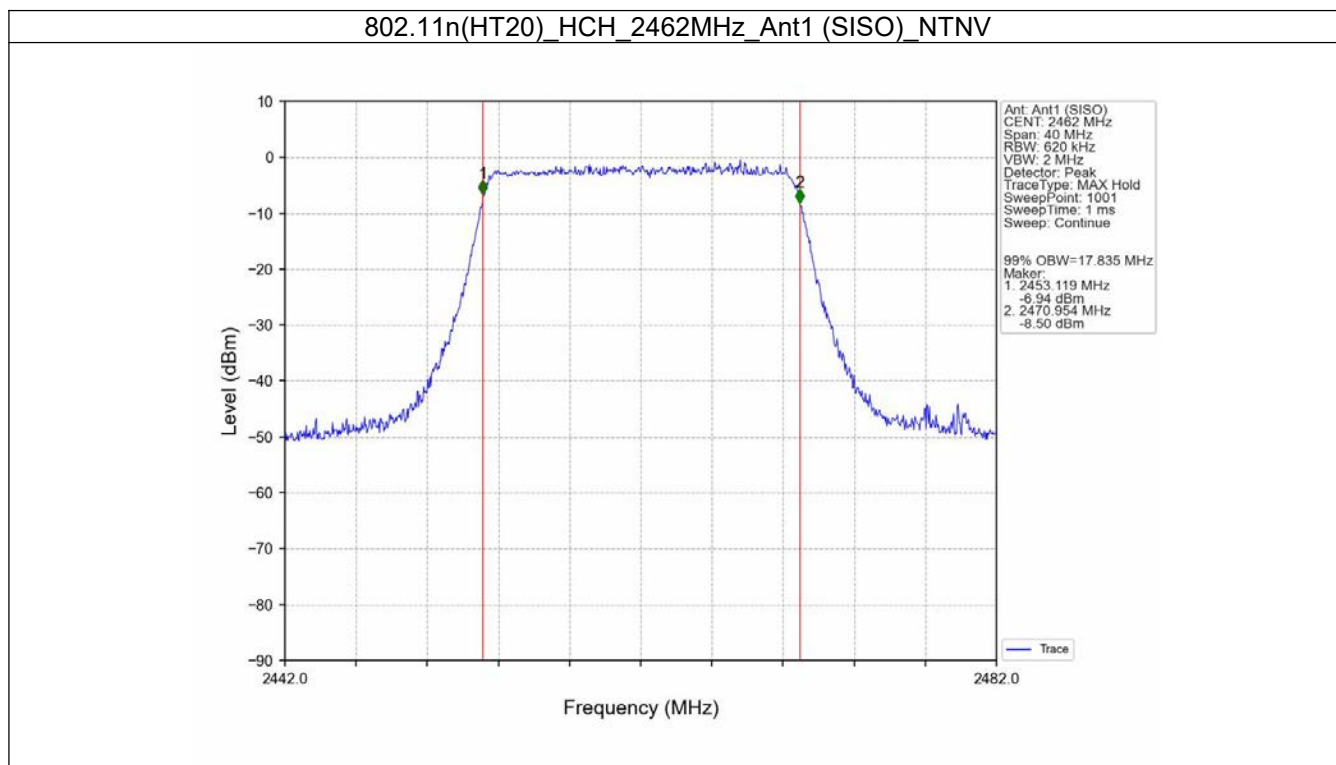


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

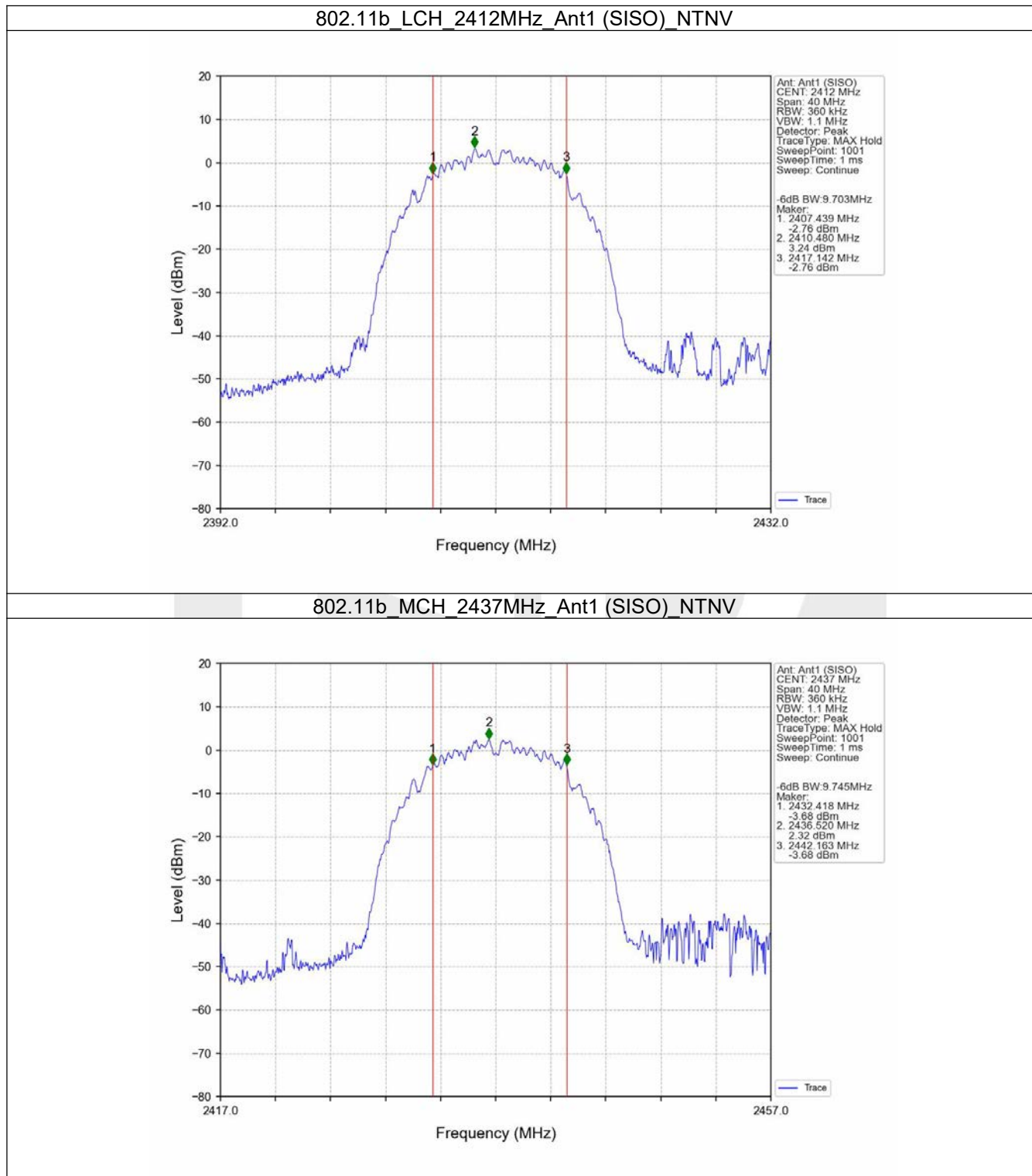


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

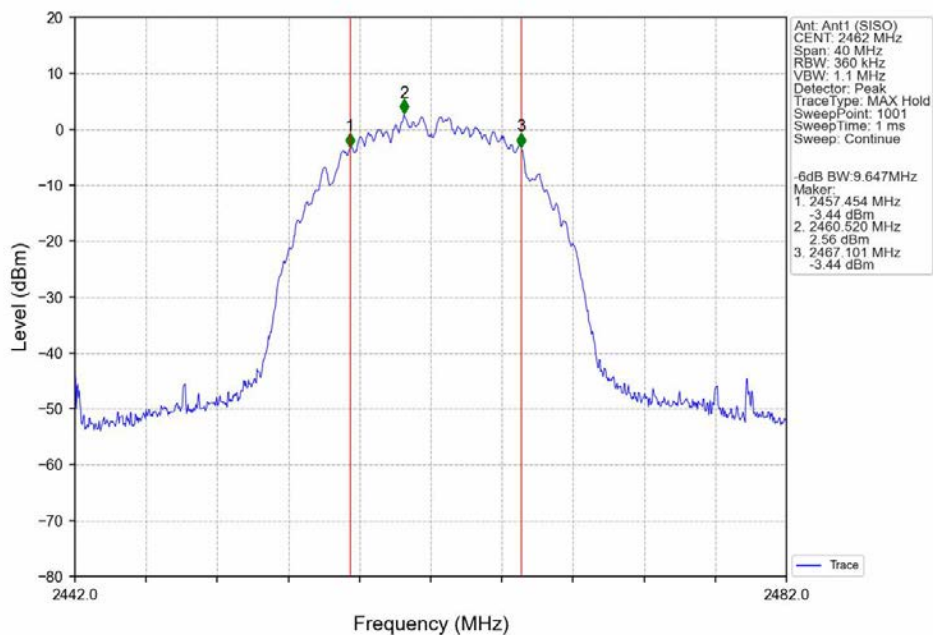




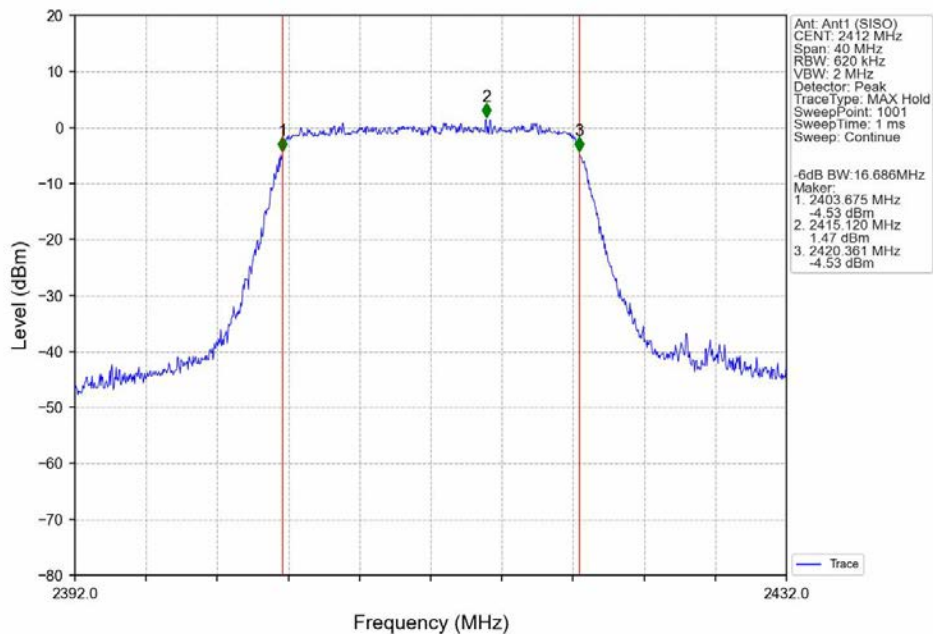
2.2.2 6dB BW



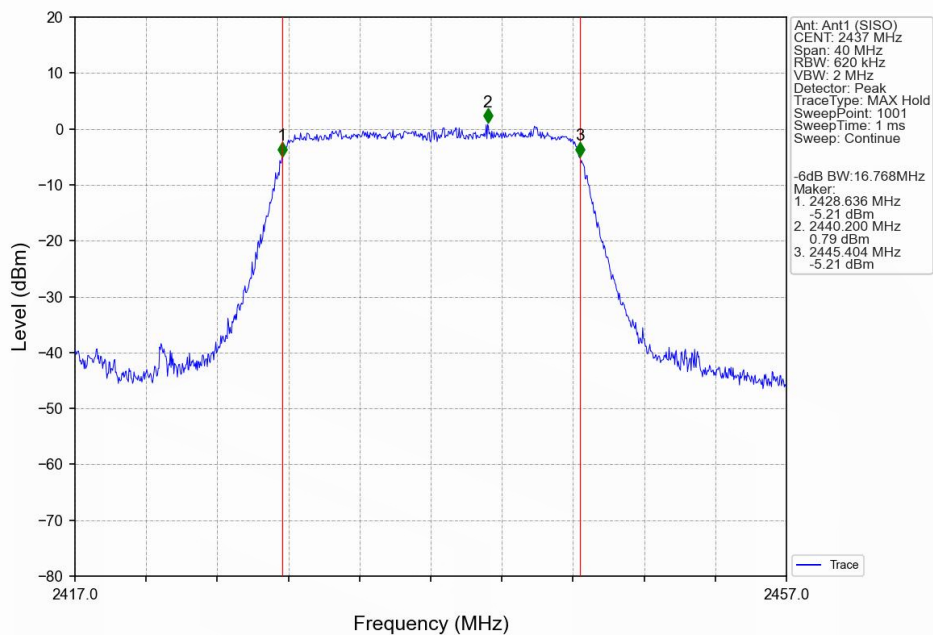
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



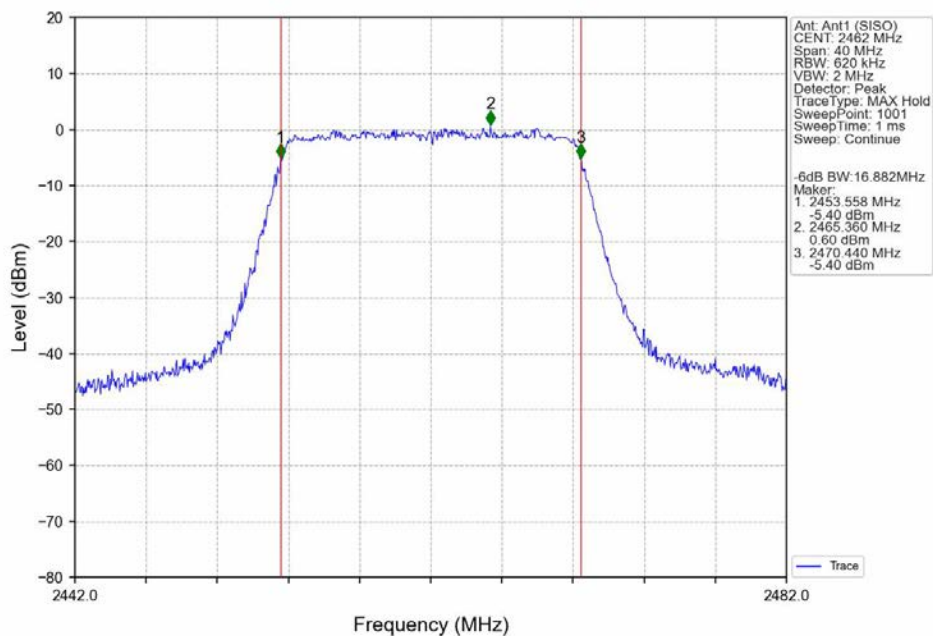
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



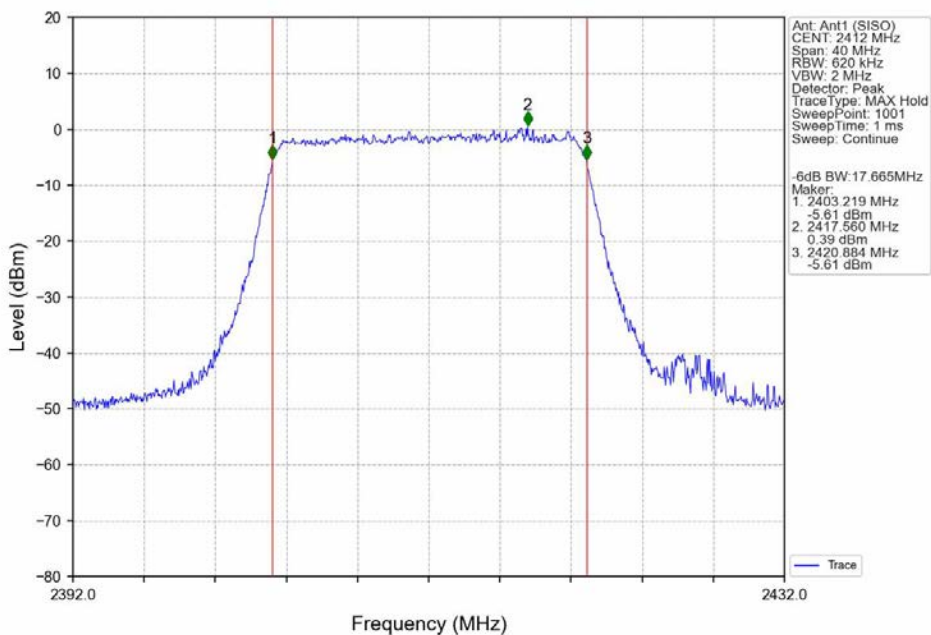
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



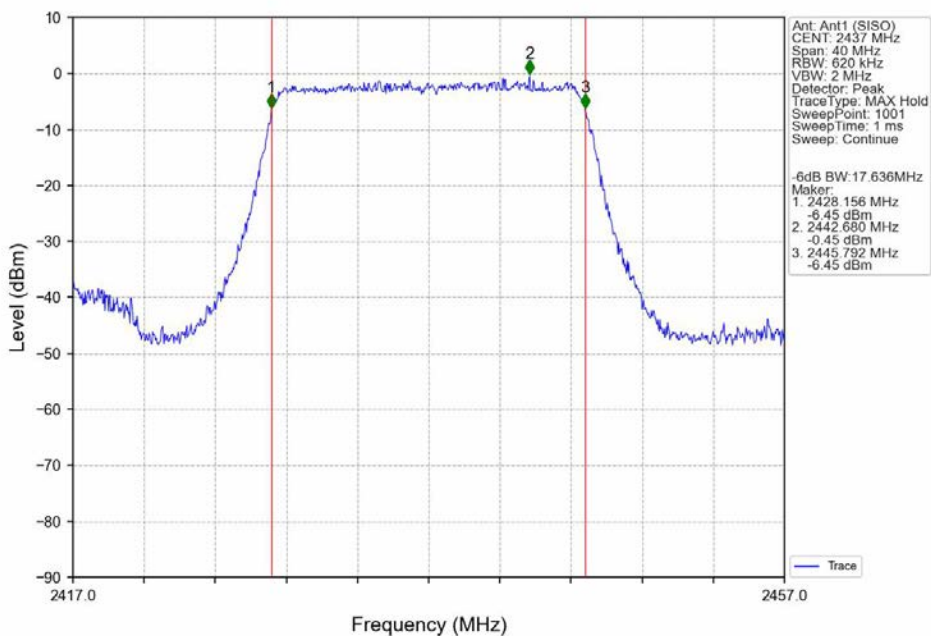
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

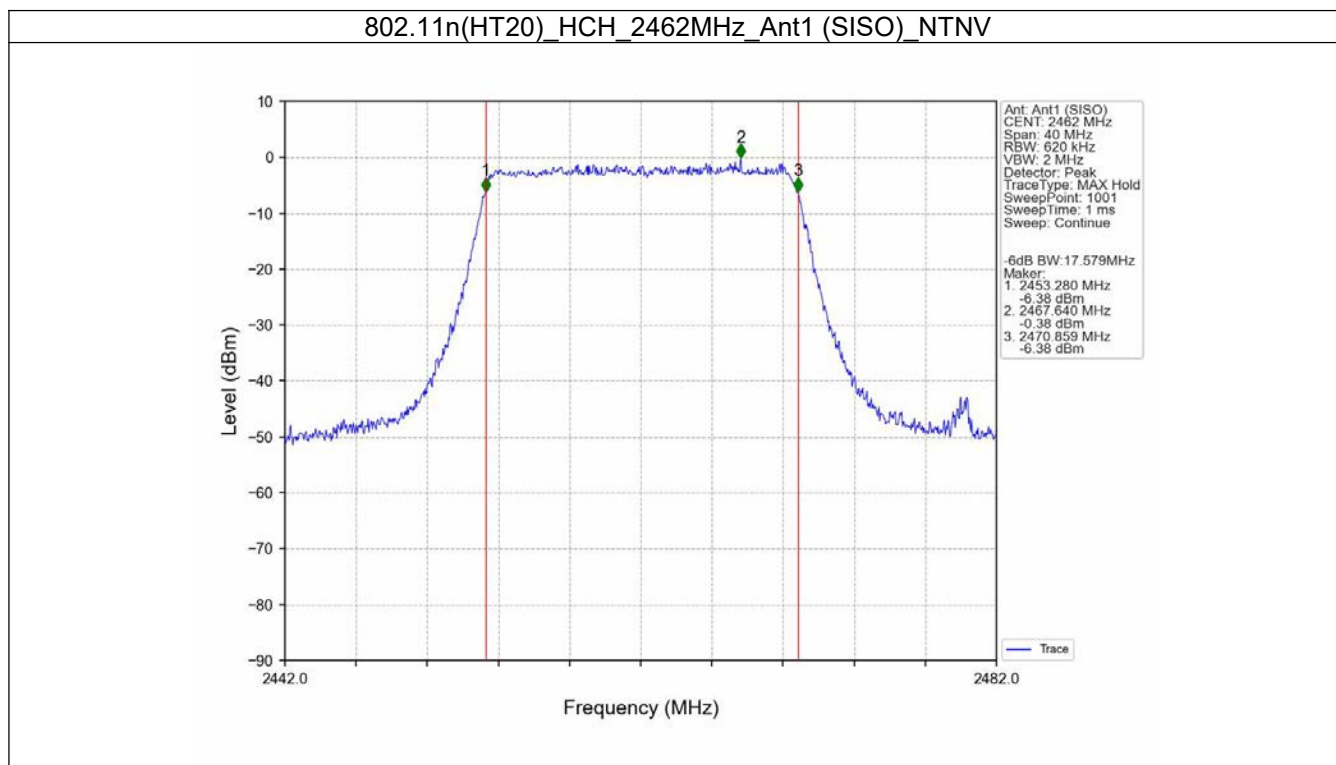


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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	13.70	<=30	Pass
		2437	13.03	<=30	Pass
		2462	12.90	<=30	Pass
802.11g	SISO	2412	14.25	<=30	Pass
		2437	13.59	<=30	Pass
		2462	13.65	<=30	Pass
802.11n (HT20)	SISO	2412	13.28	<=30	Pass
		2437	12.40	<=30	Pass
		2462	12.52	<=30	Pass

4. Maximum Power Spectral Density

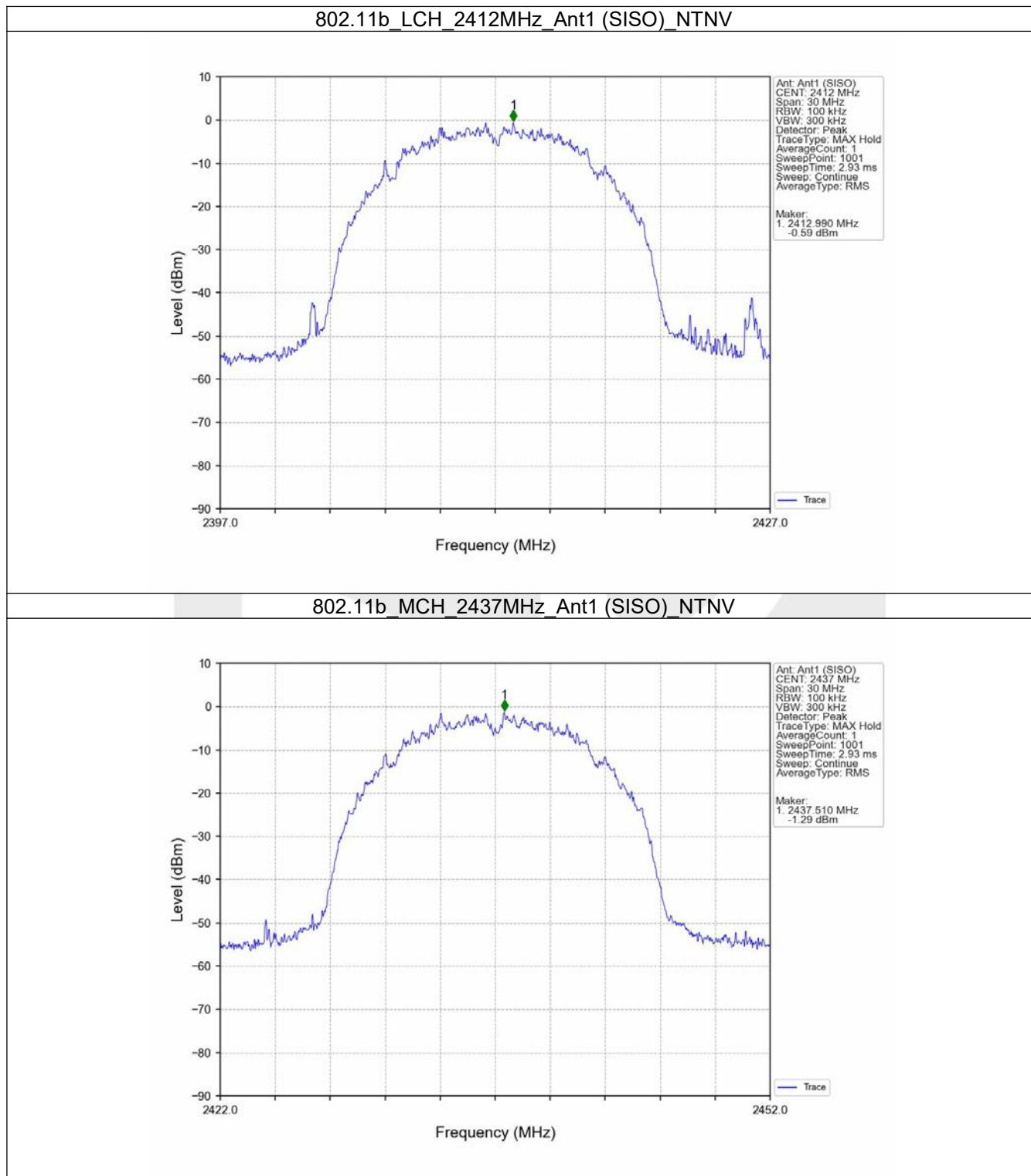
4.1 Test Result

4.1.1 PSD

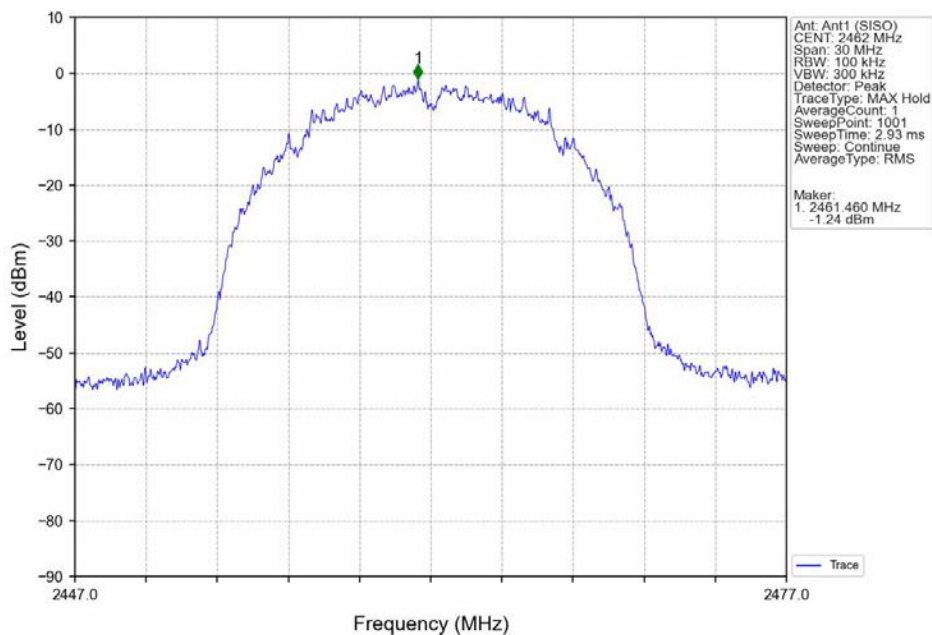
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-0.59	≤ 8	Pass
		2437	-1.29	≤ 8	Pass
		2462	-1.24	≤ 8	Pass
802.11g	SISO	2412	-4.56	≤ 8	Pass
		2437	-5.48	≤ 8	Pass
		2462	-5.63	≤ 8	Pass
802.11n (HT20)	SISO	2412	-5.83	≤ 8	Pass
		2437	-6.86	≤ 8	Pass
		2462	-6.64	≤ 8	Pass

4.2 Test Graph

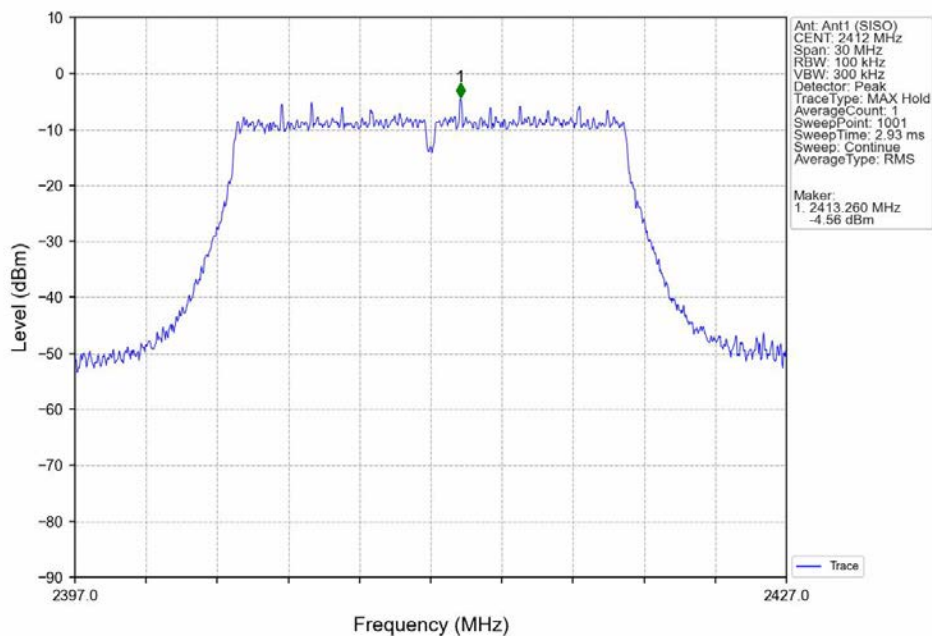
4.2.1 PSD



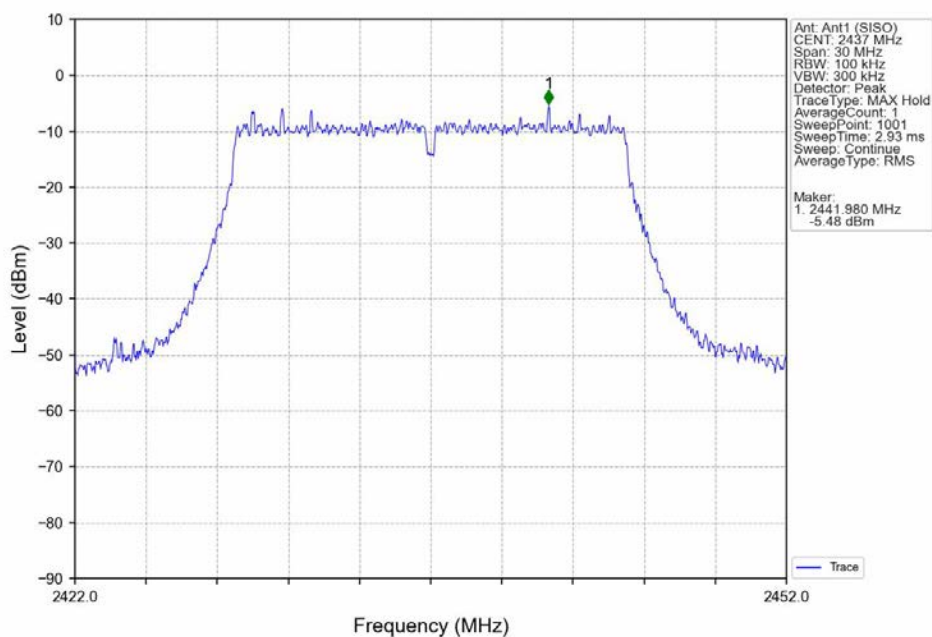
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



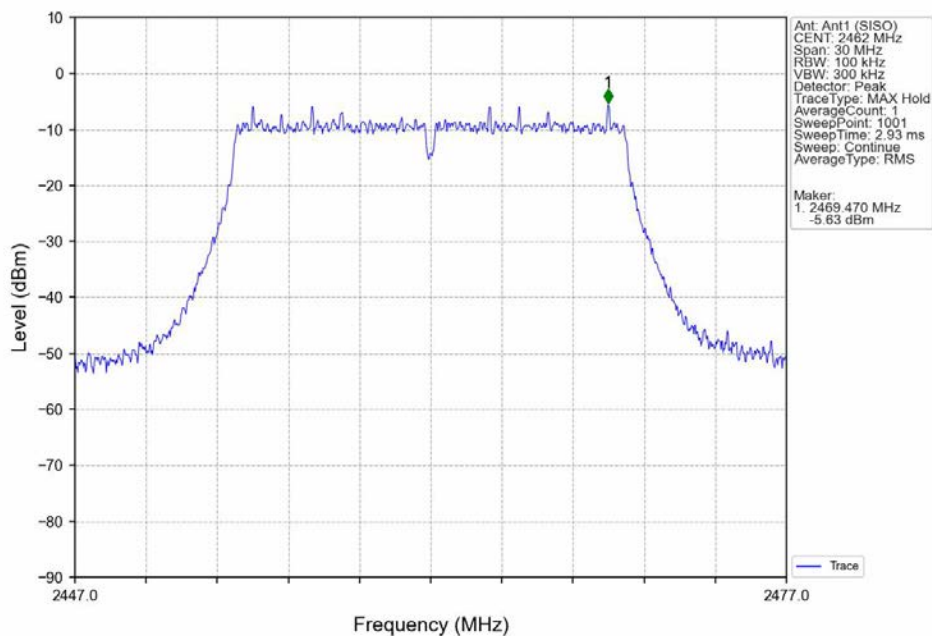
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



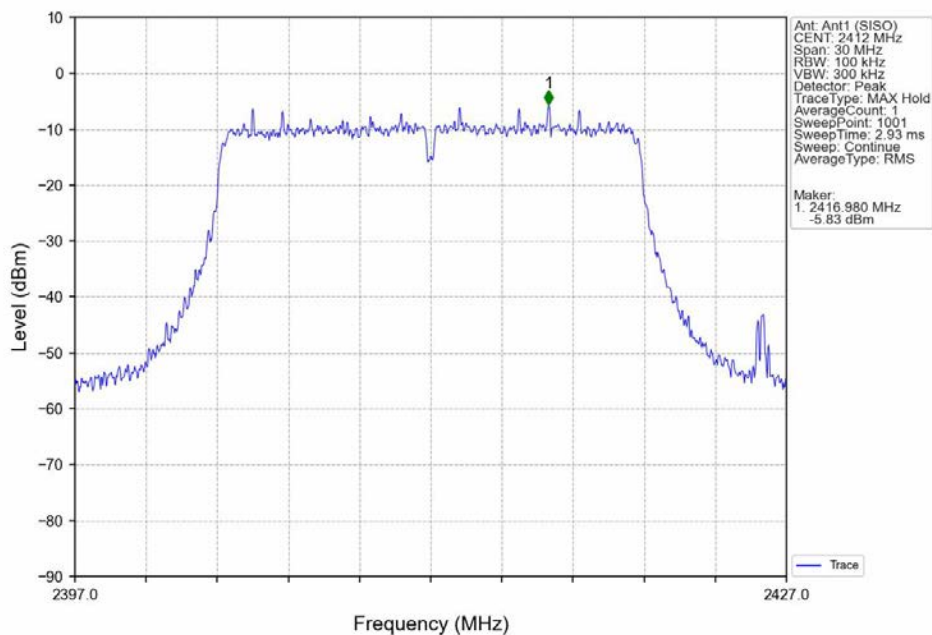
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



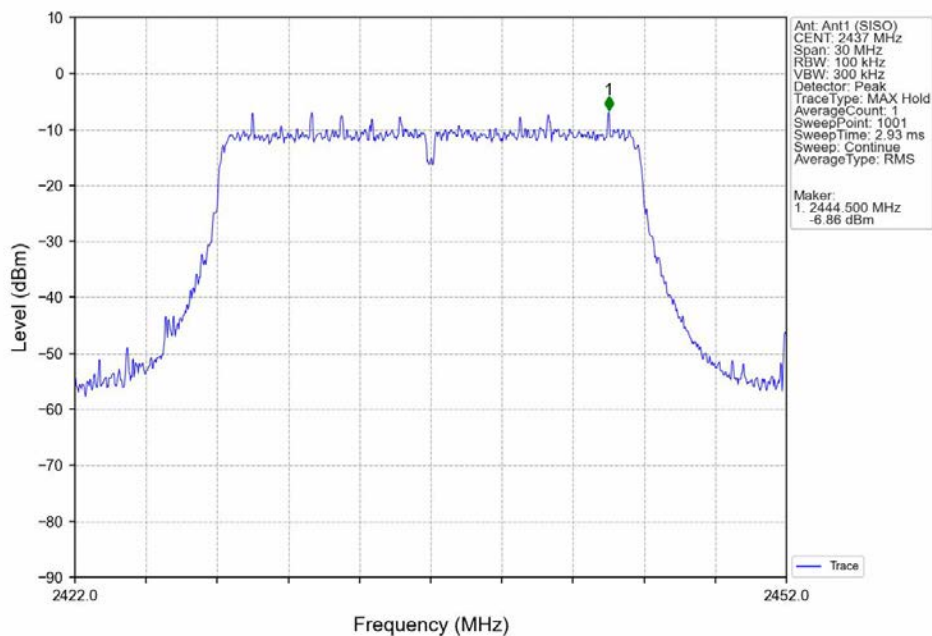
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

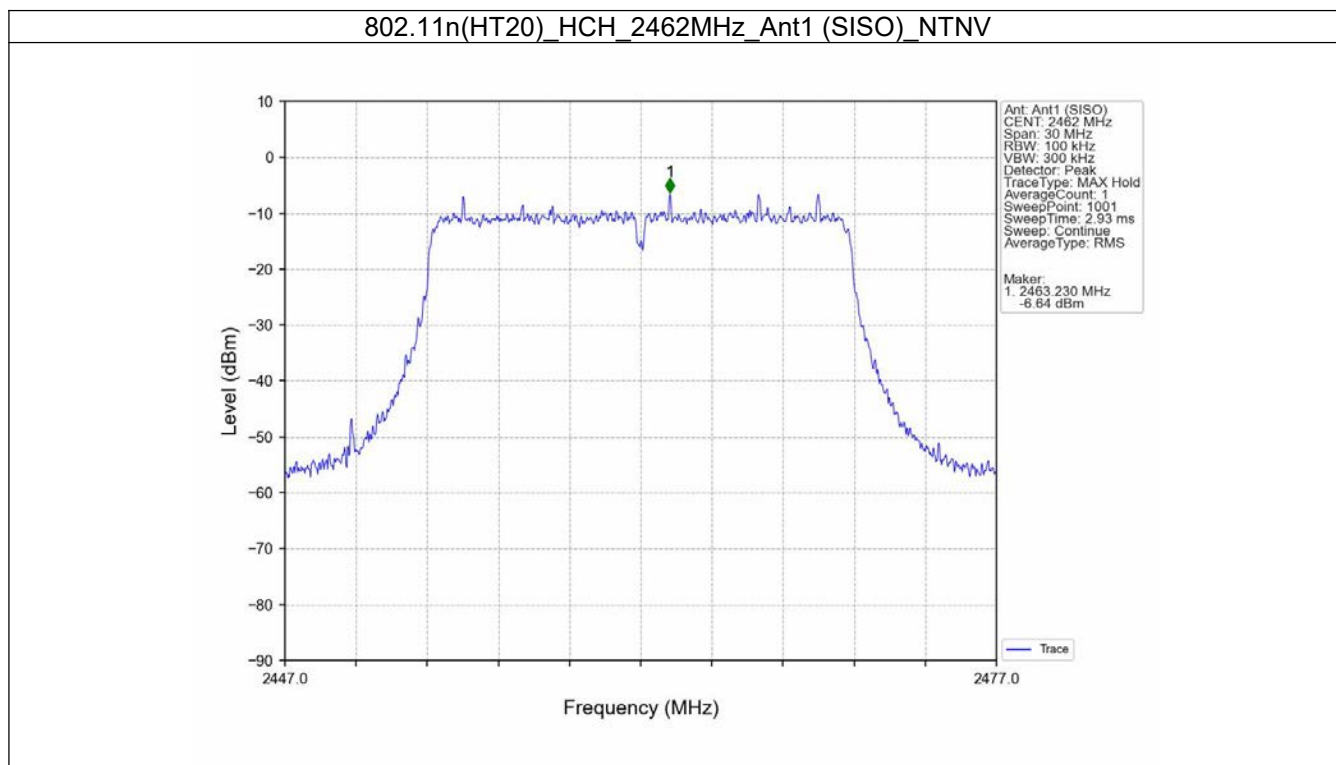


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

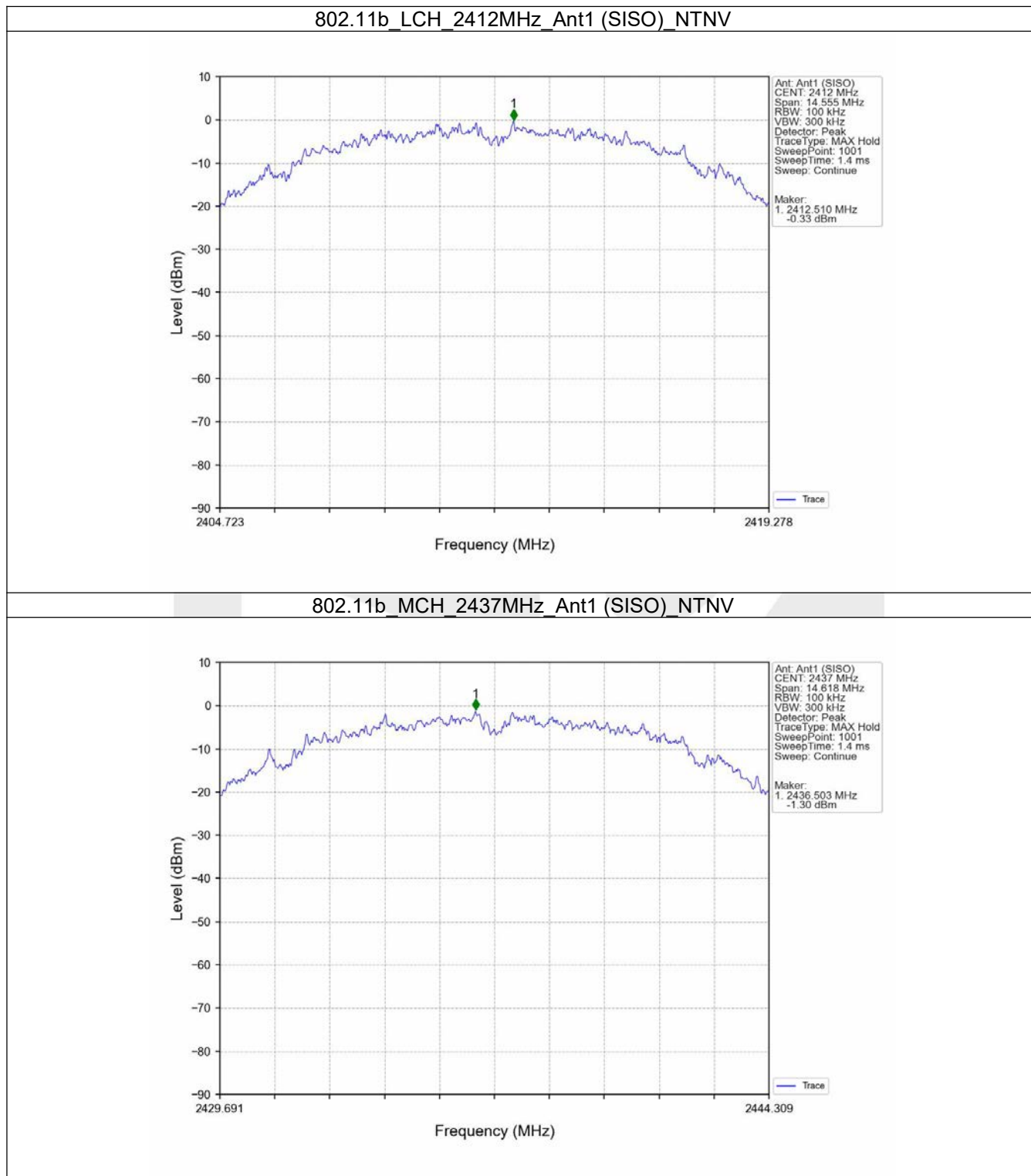
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-0.33
		2437	1	-1.30
		2462	1	-0.95
802.11g	SISO	2412	1	-4.81
		2437	1	-5.50
		2462	1	-5.61
802.11n (HT20)	SISO	2412	1	-6.23
		2437	1	-6.42
		2462	1	-6.66

5.1.2 CSE

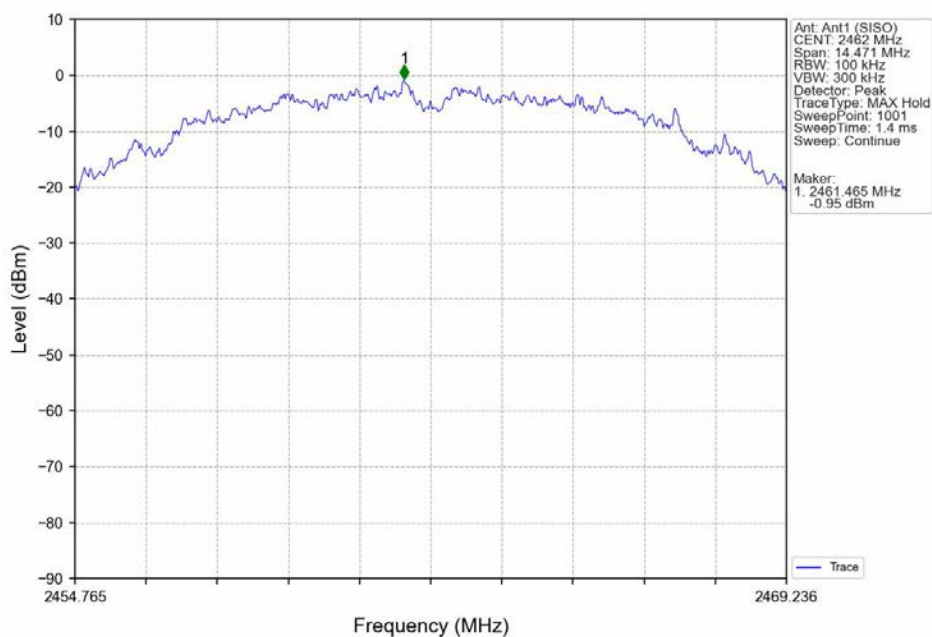
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-0.33	-20.33	Pass
		2437	1	-1.30	-21.30	Pass
		2462	1	-0.95	-20.95	Pass
802.11g	SISO	2412	1	-4.81	-24.81	Pass
		2437	1	-5.50	-25.50	Pass
		2462	1	-5.61	-25.61	Pass
802.11n (HT20)	SISO	2412	1	-6.23	-26.23	Pass
		2437	1	-6.42	-26.42	Pass
		2462	1	-6.66	-26.66	Pass

5.2 Test Graph

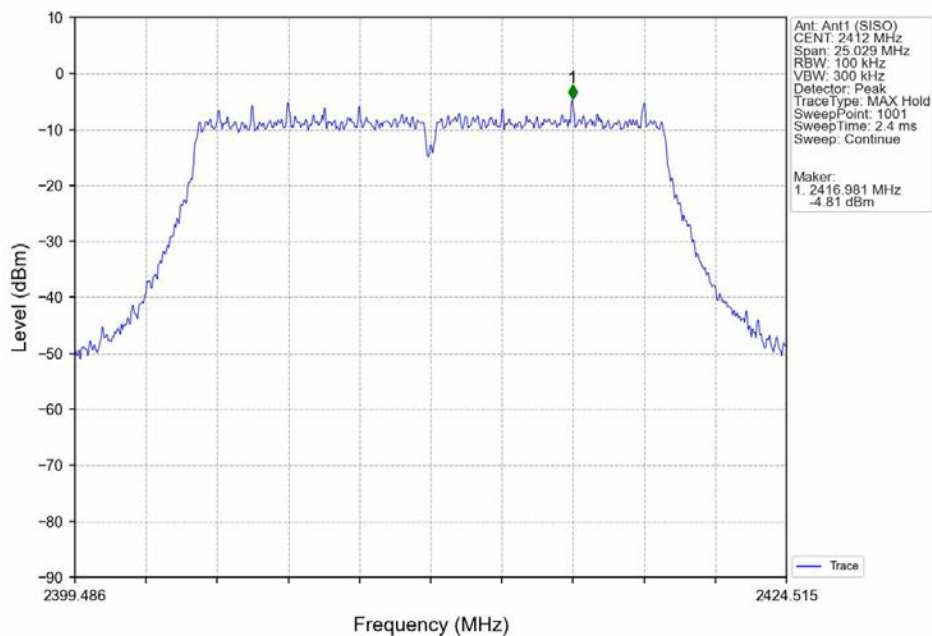
5.2.1 Ref



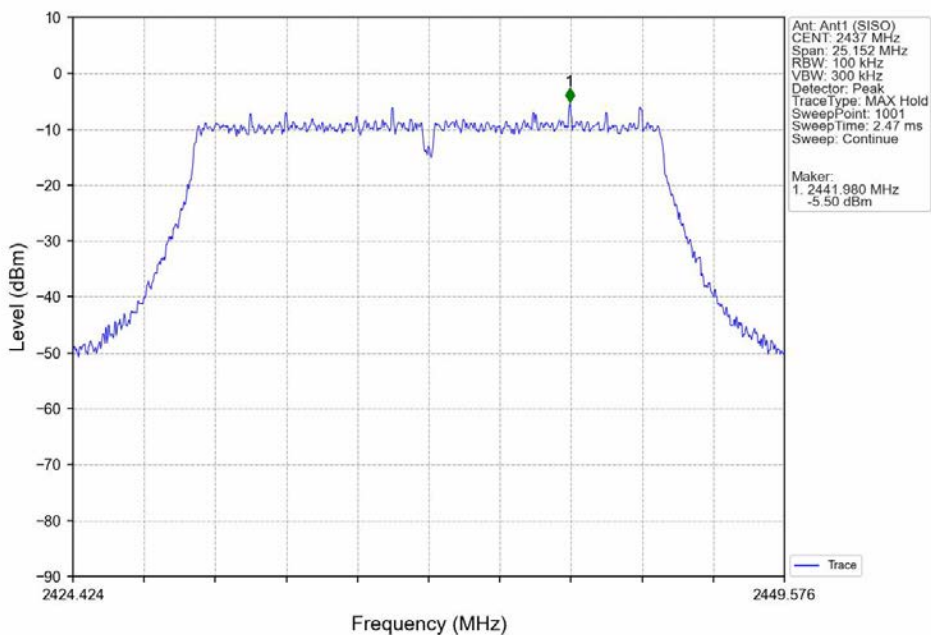
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



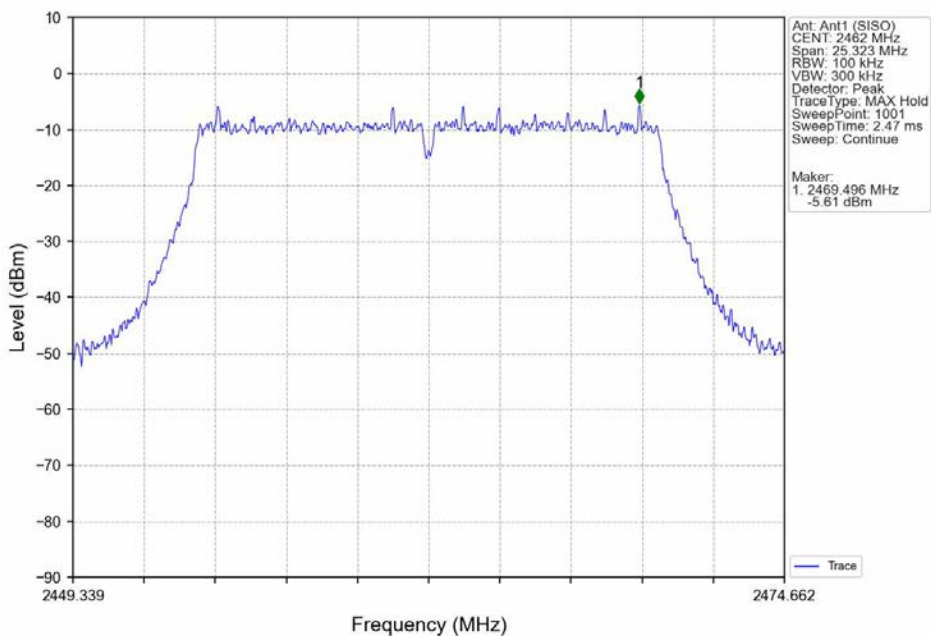
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



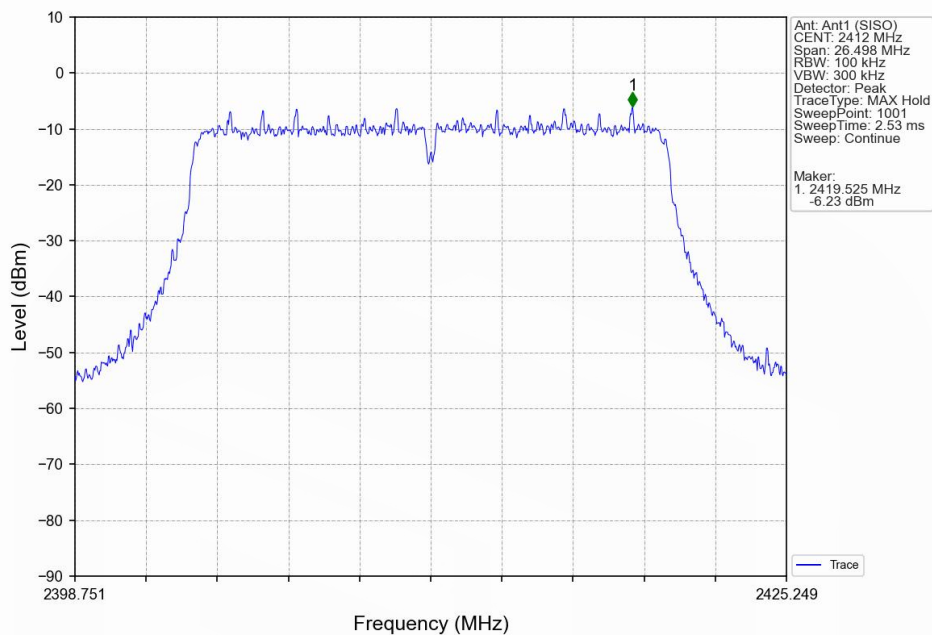
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



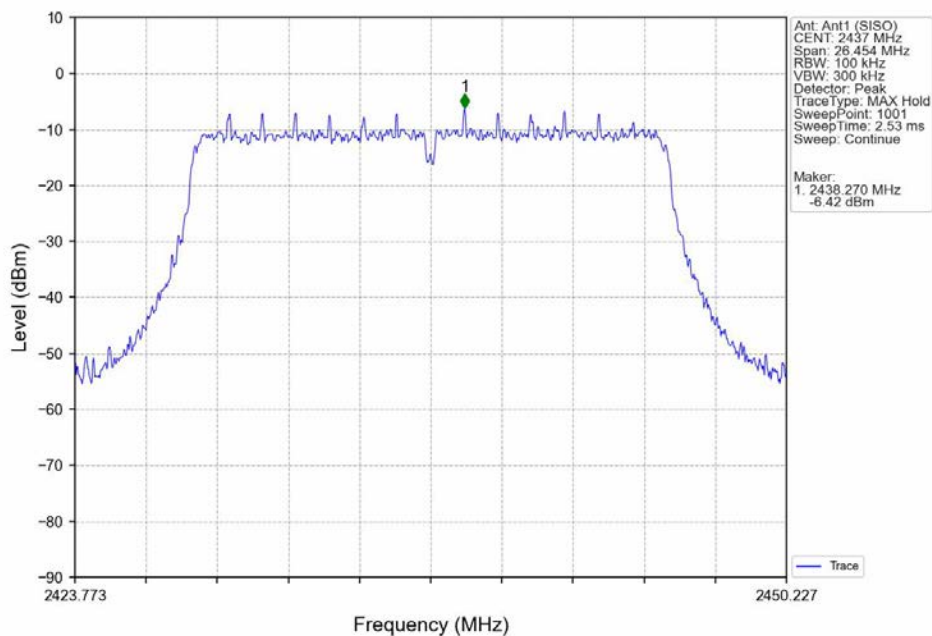
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

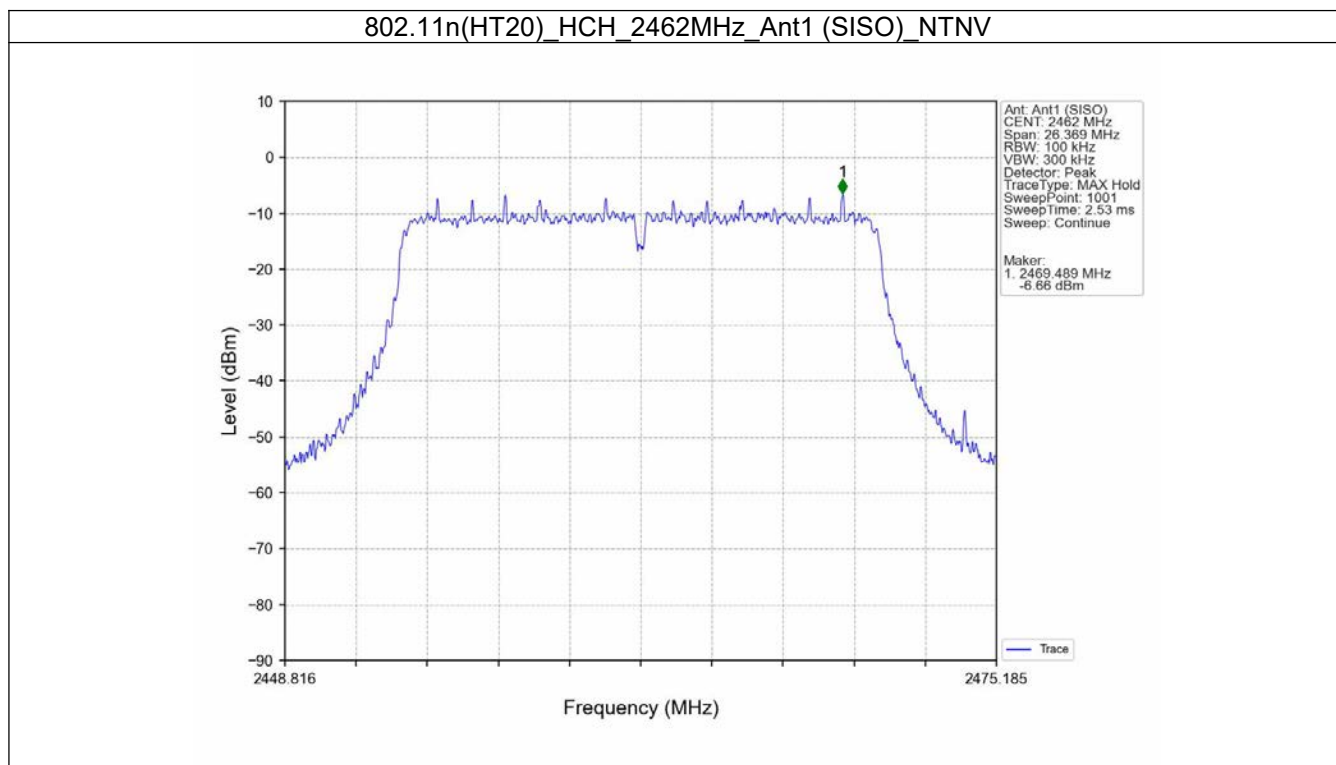


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

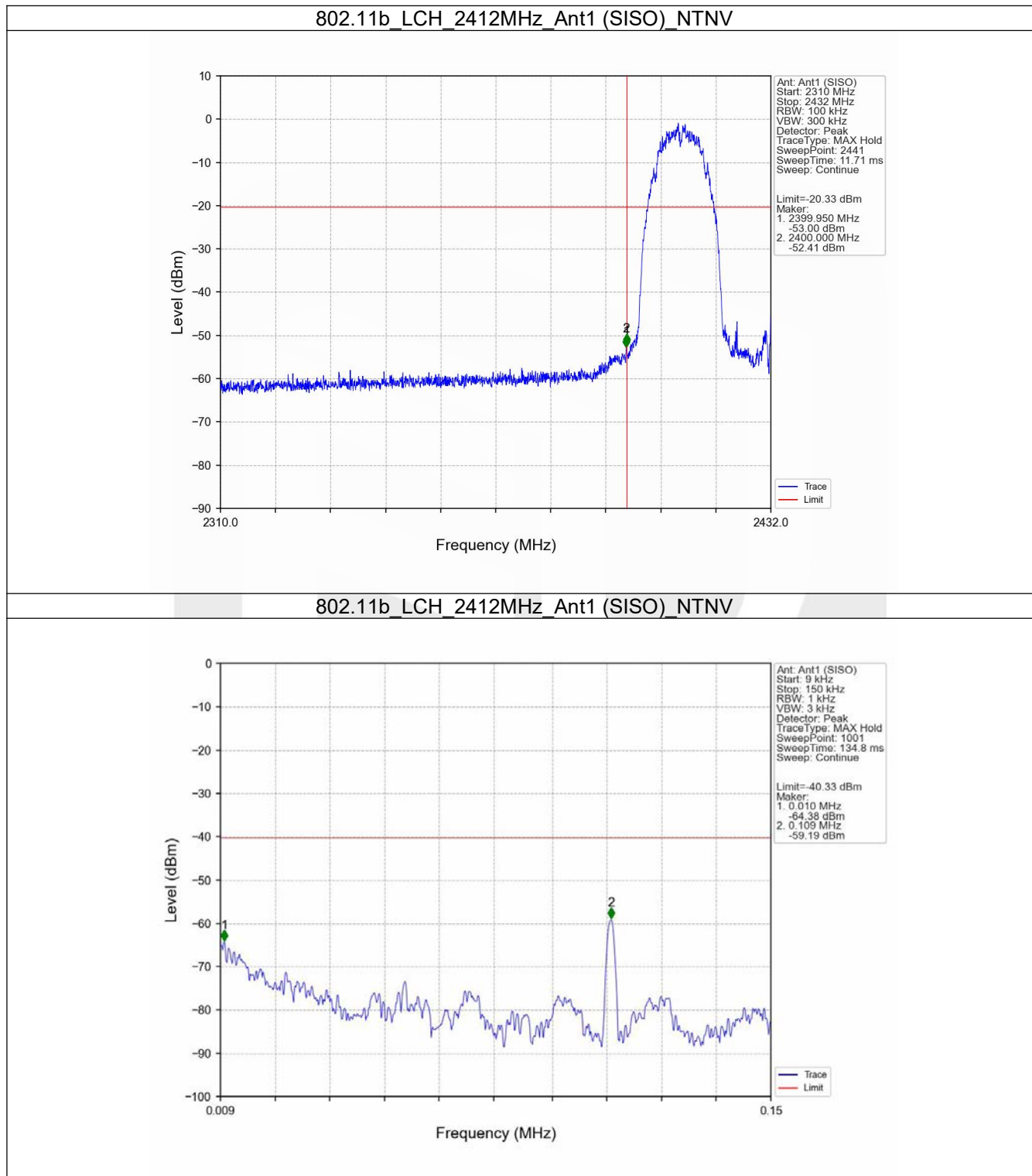


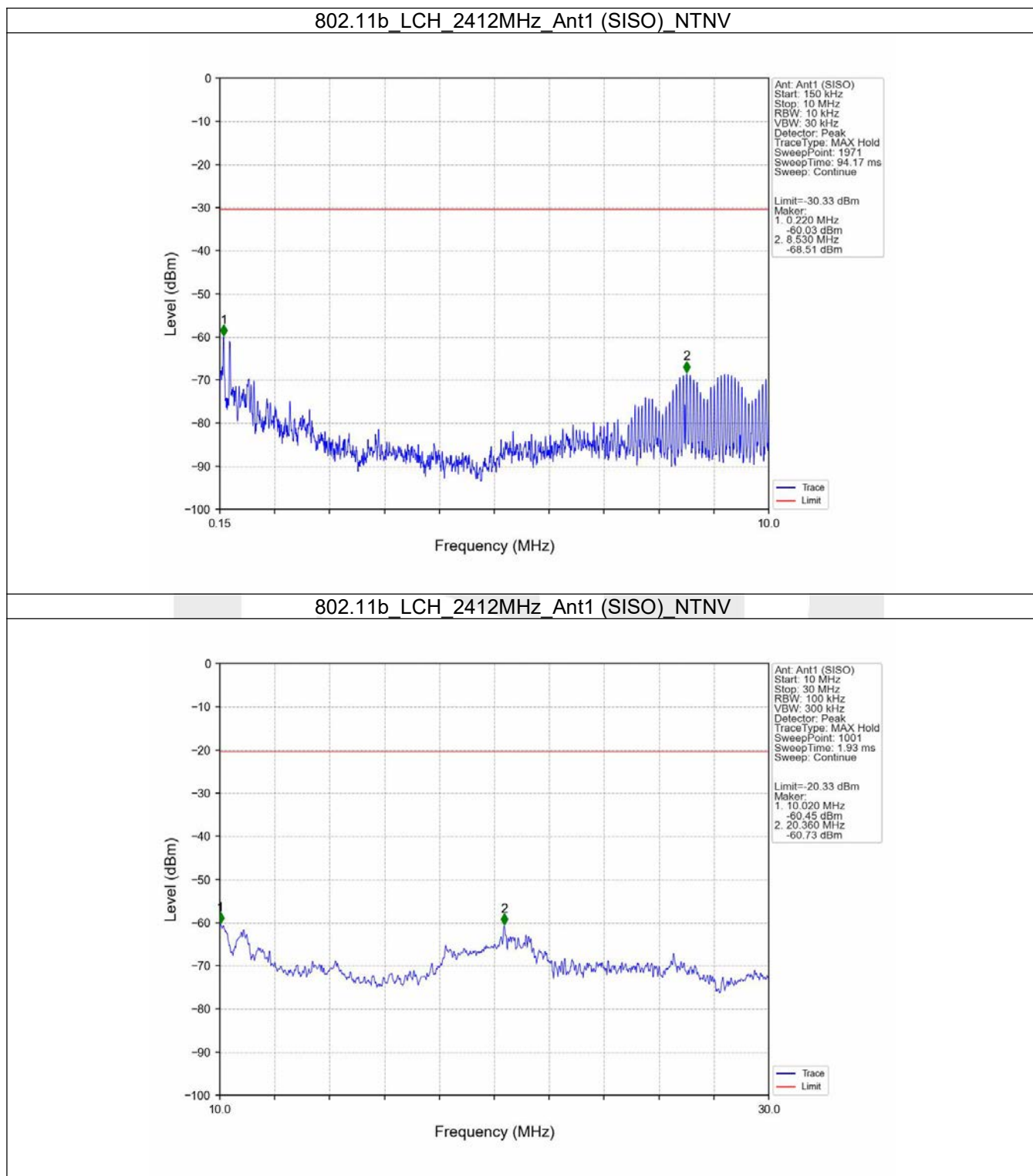
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

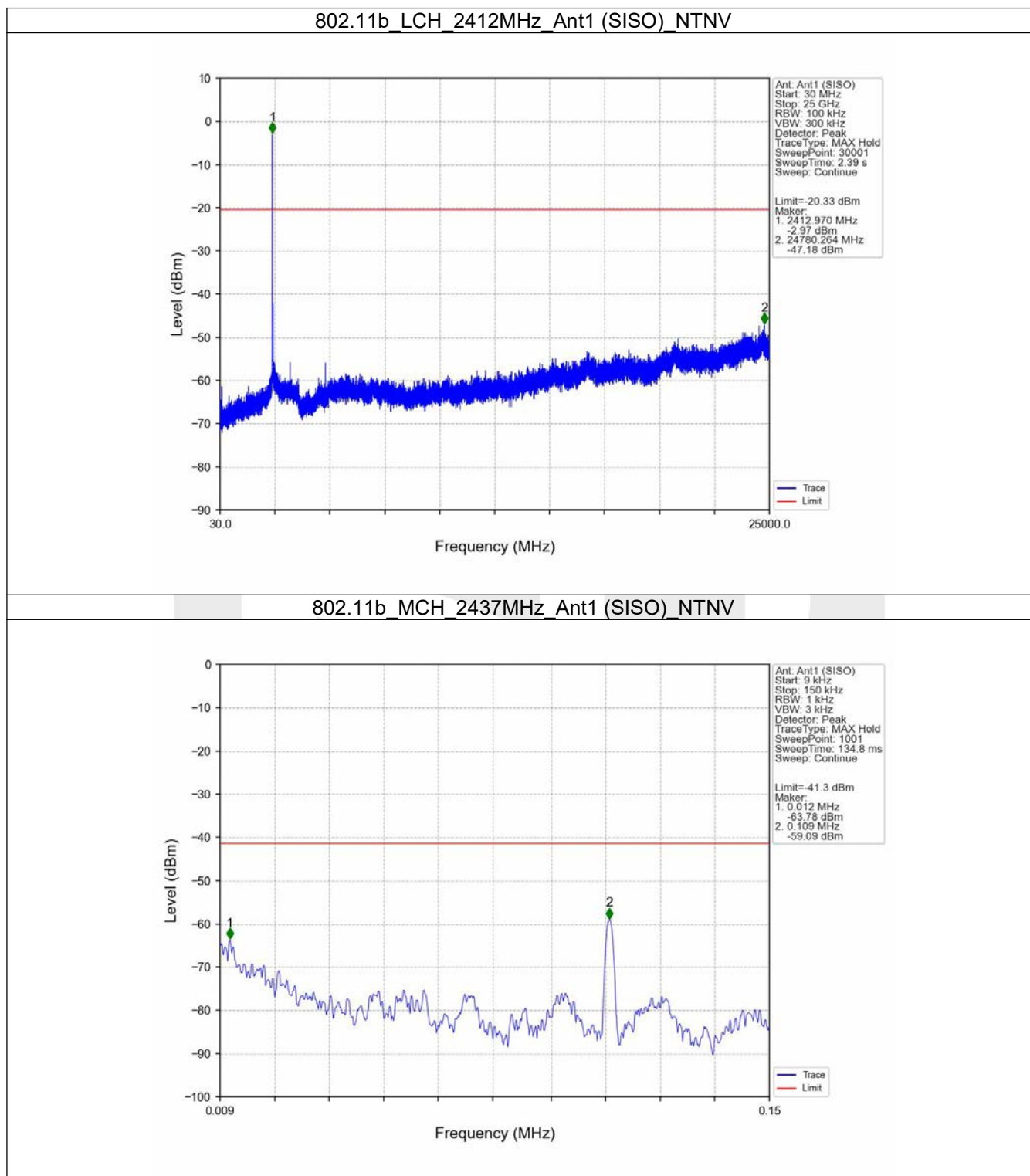




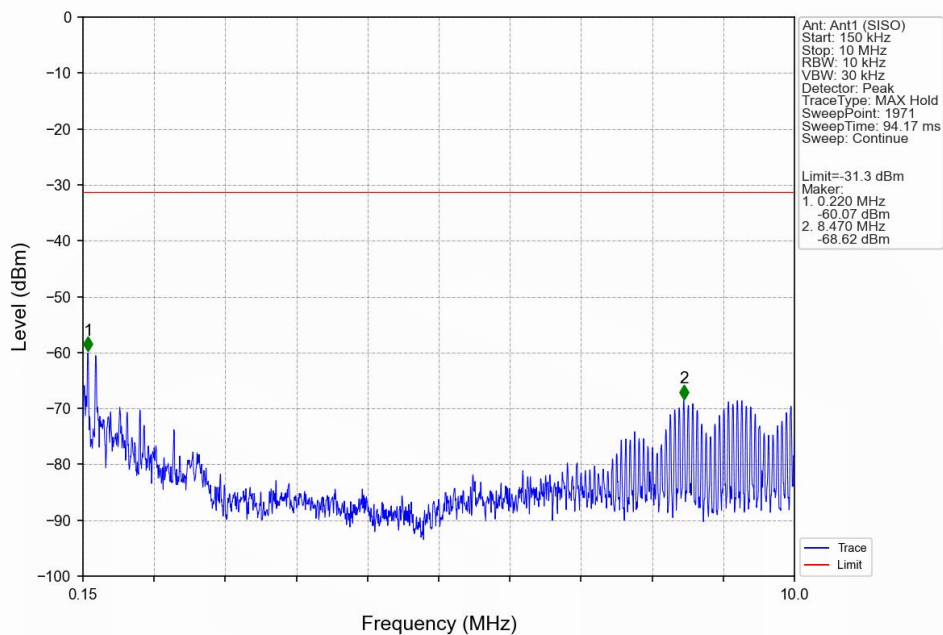
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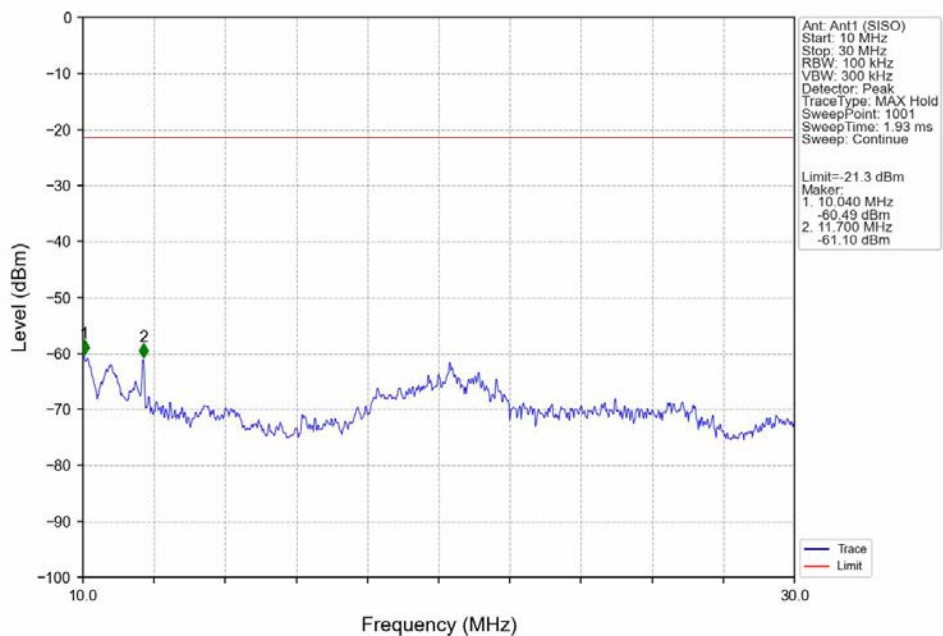


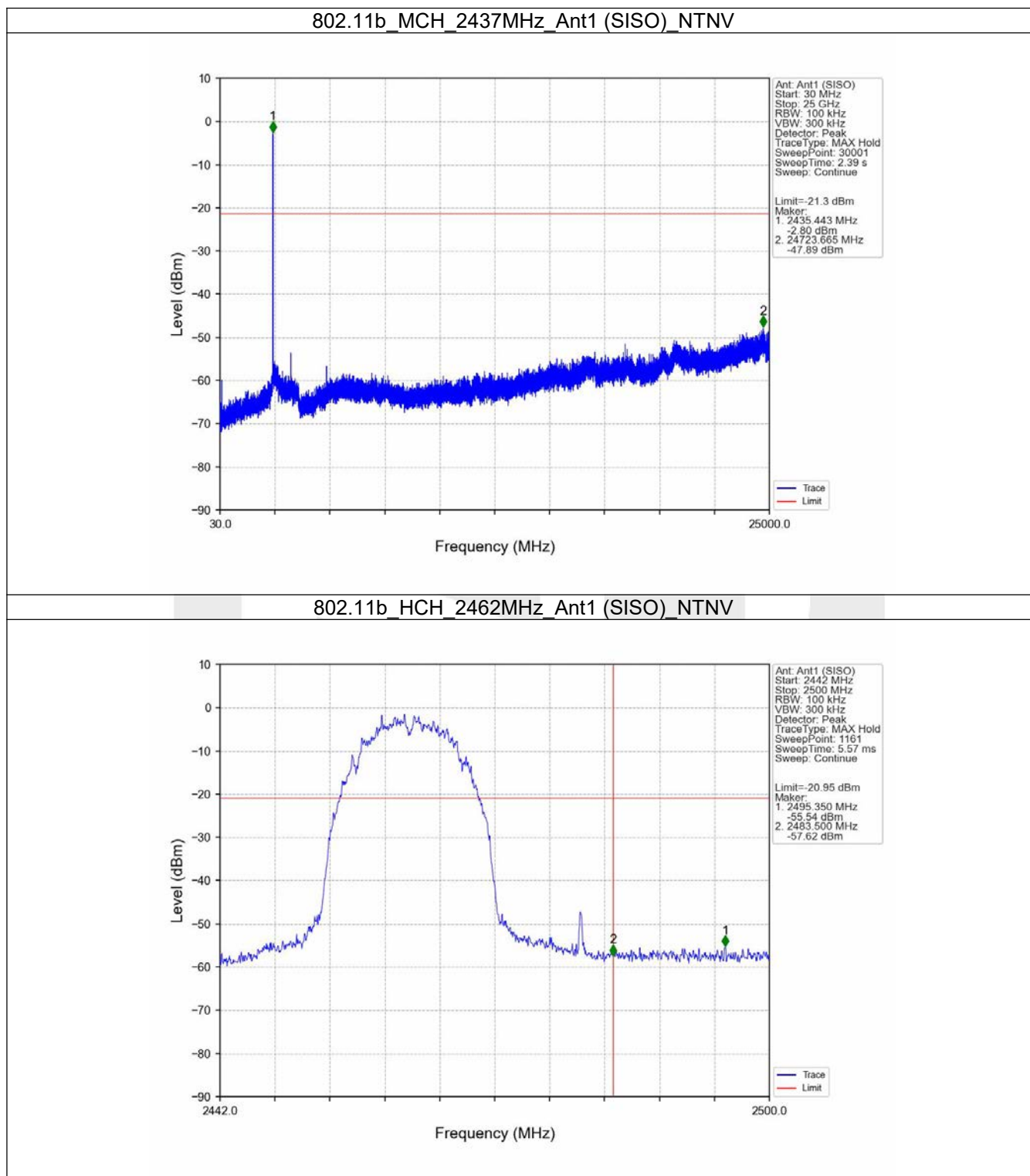


802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

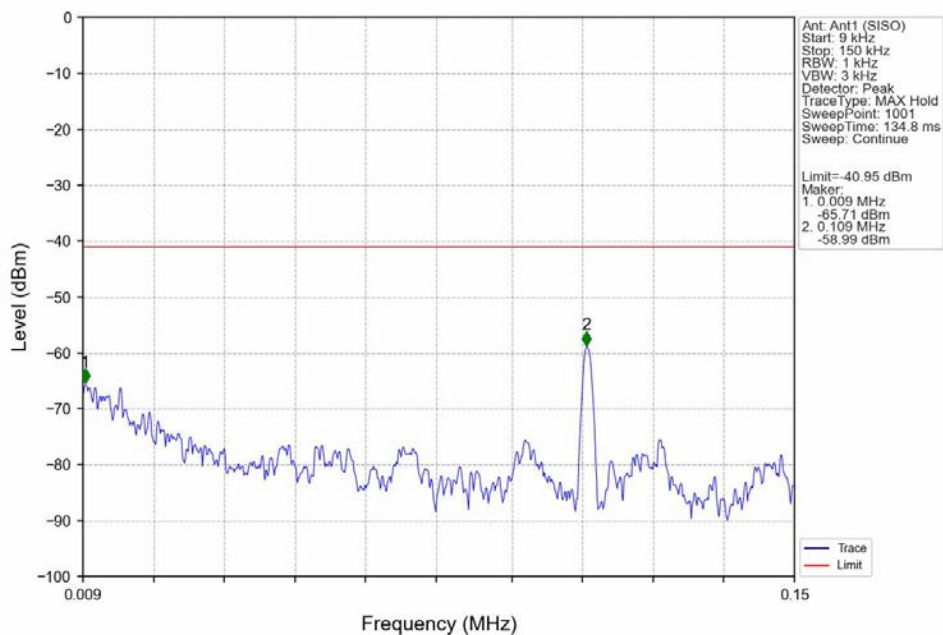


802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

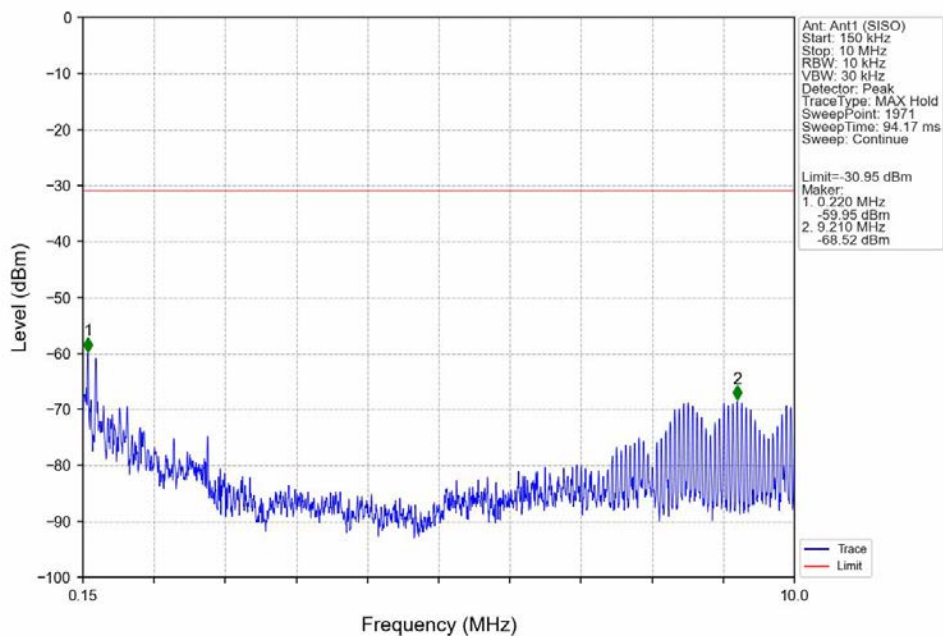




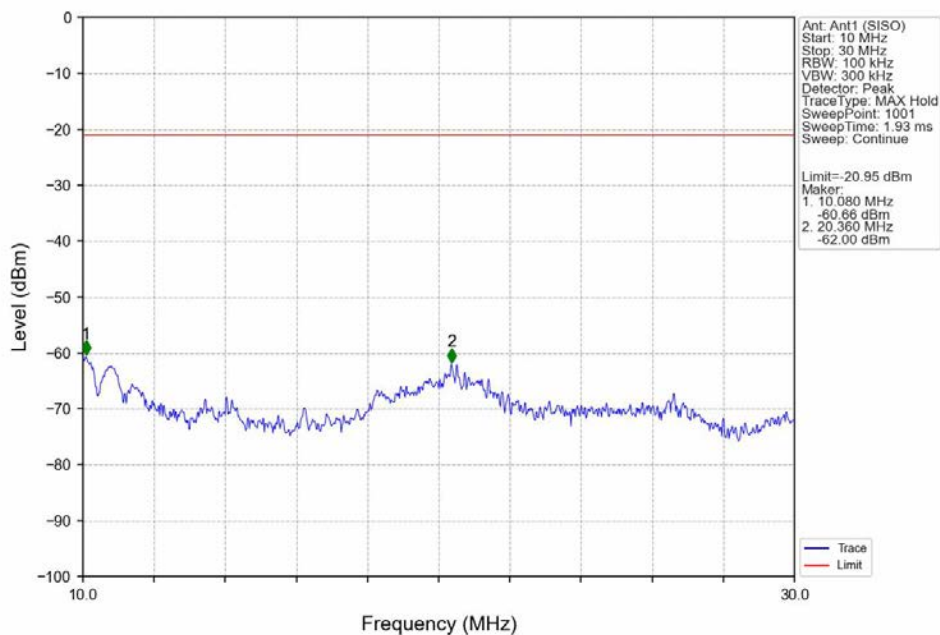
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



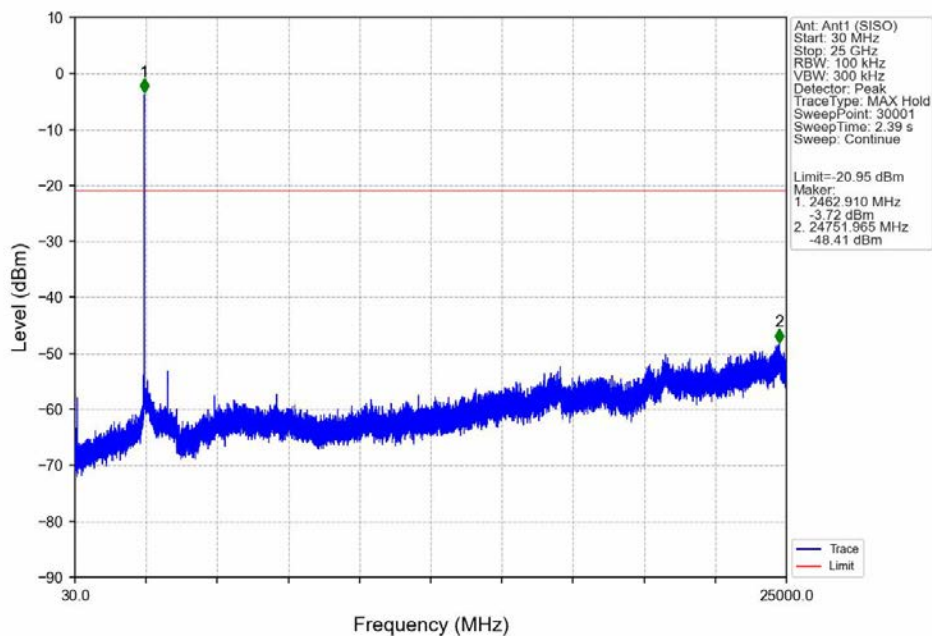
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



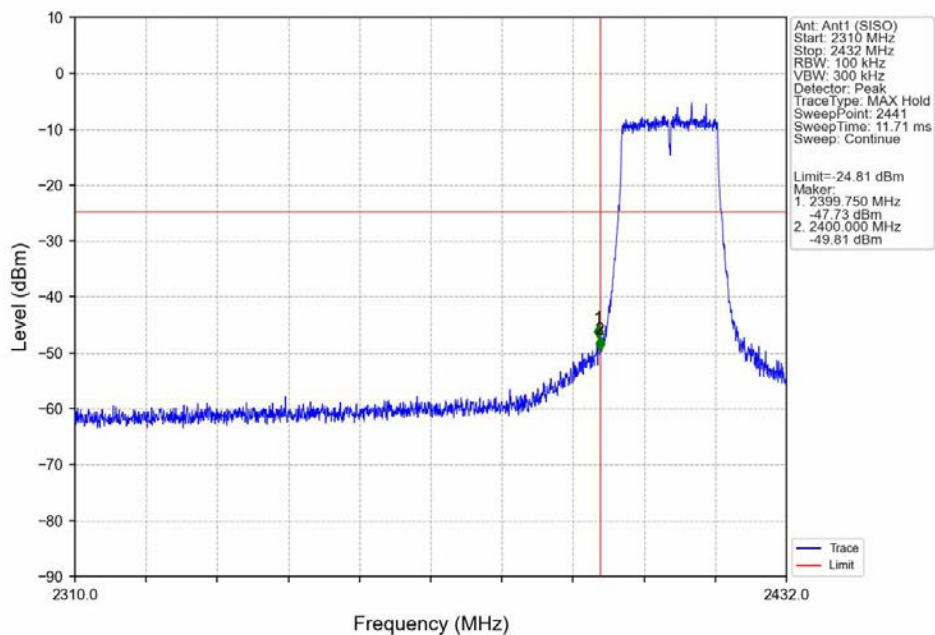
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



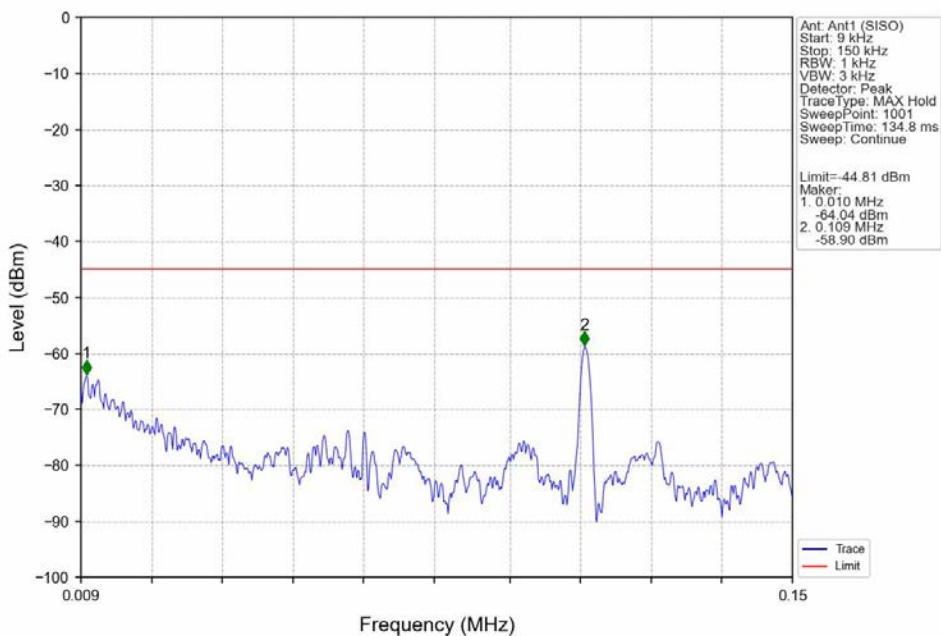
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



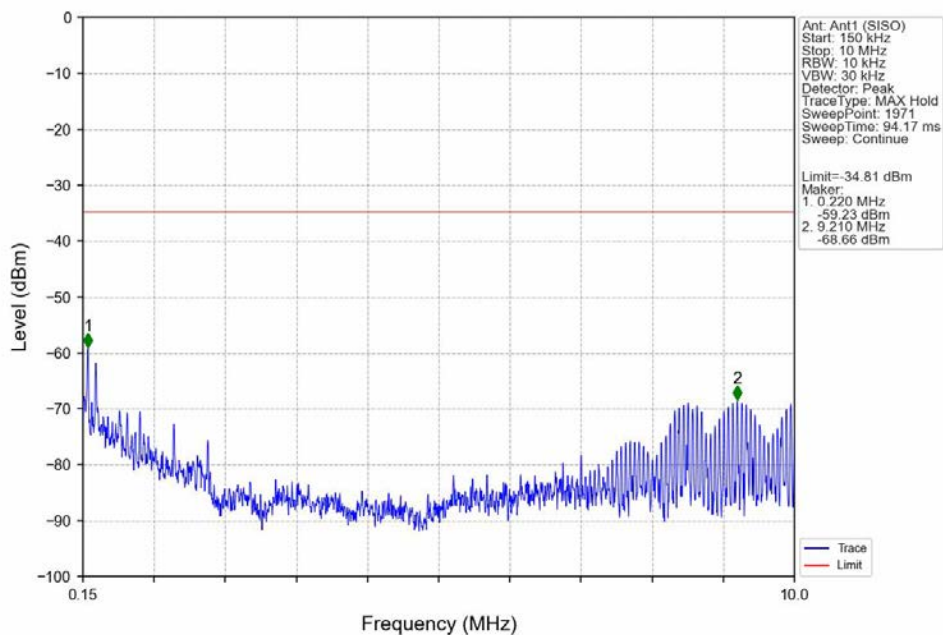
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



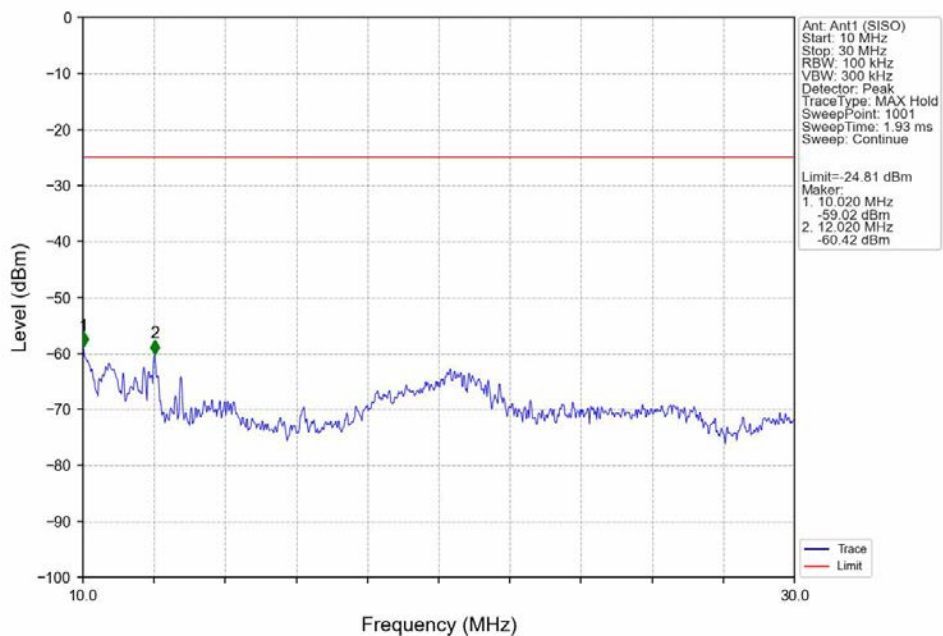
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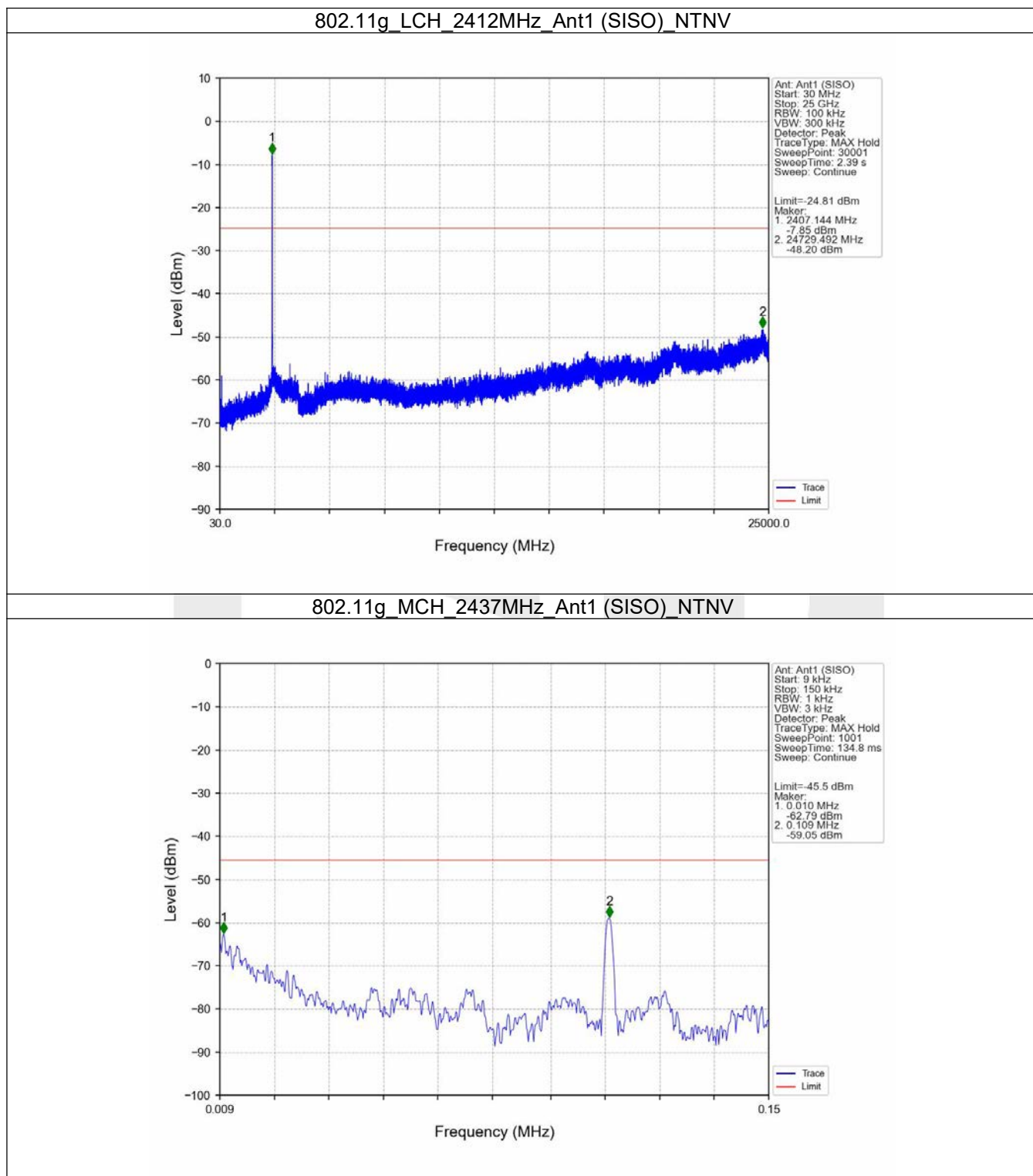


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

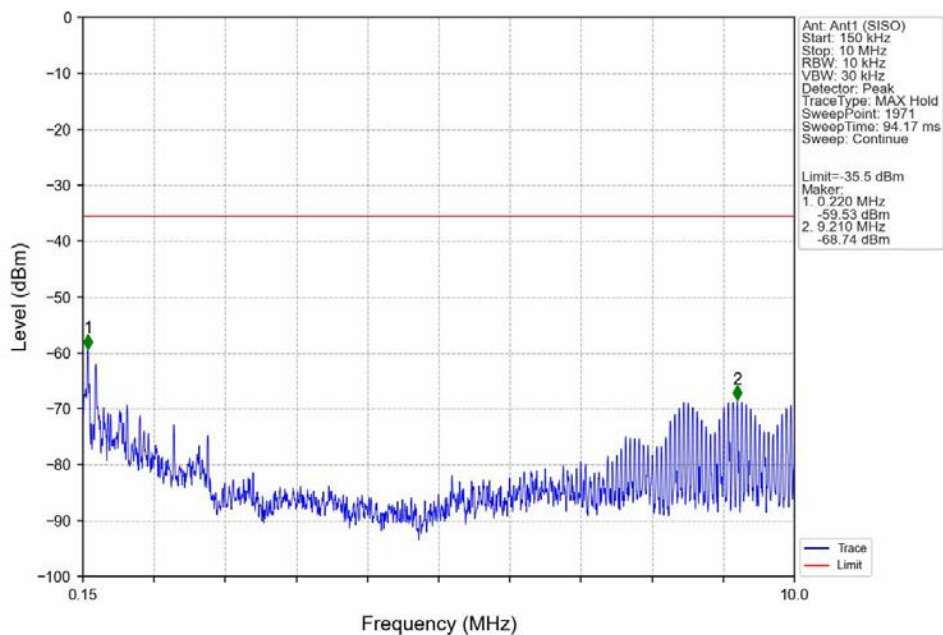


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

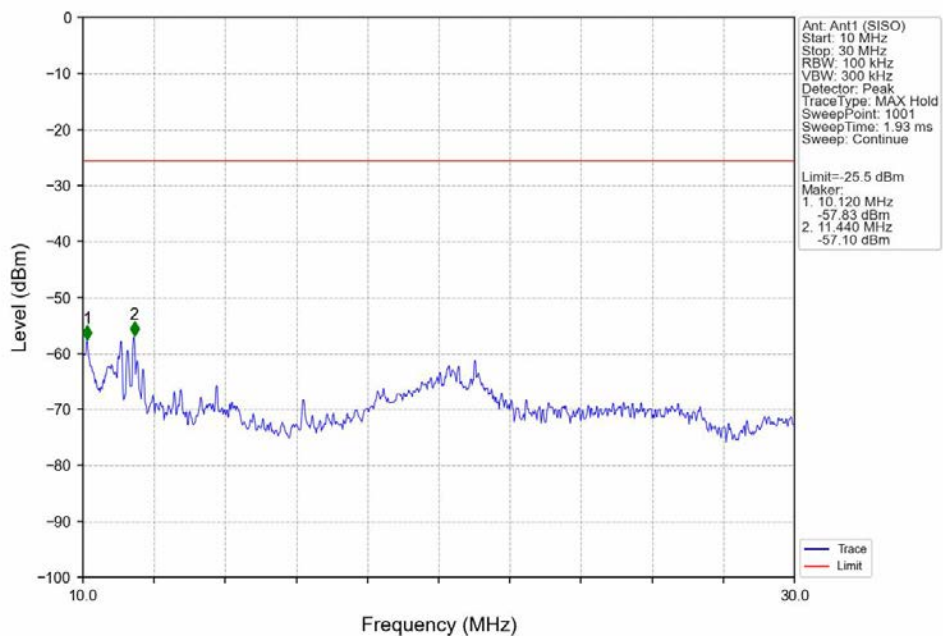


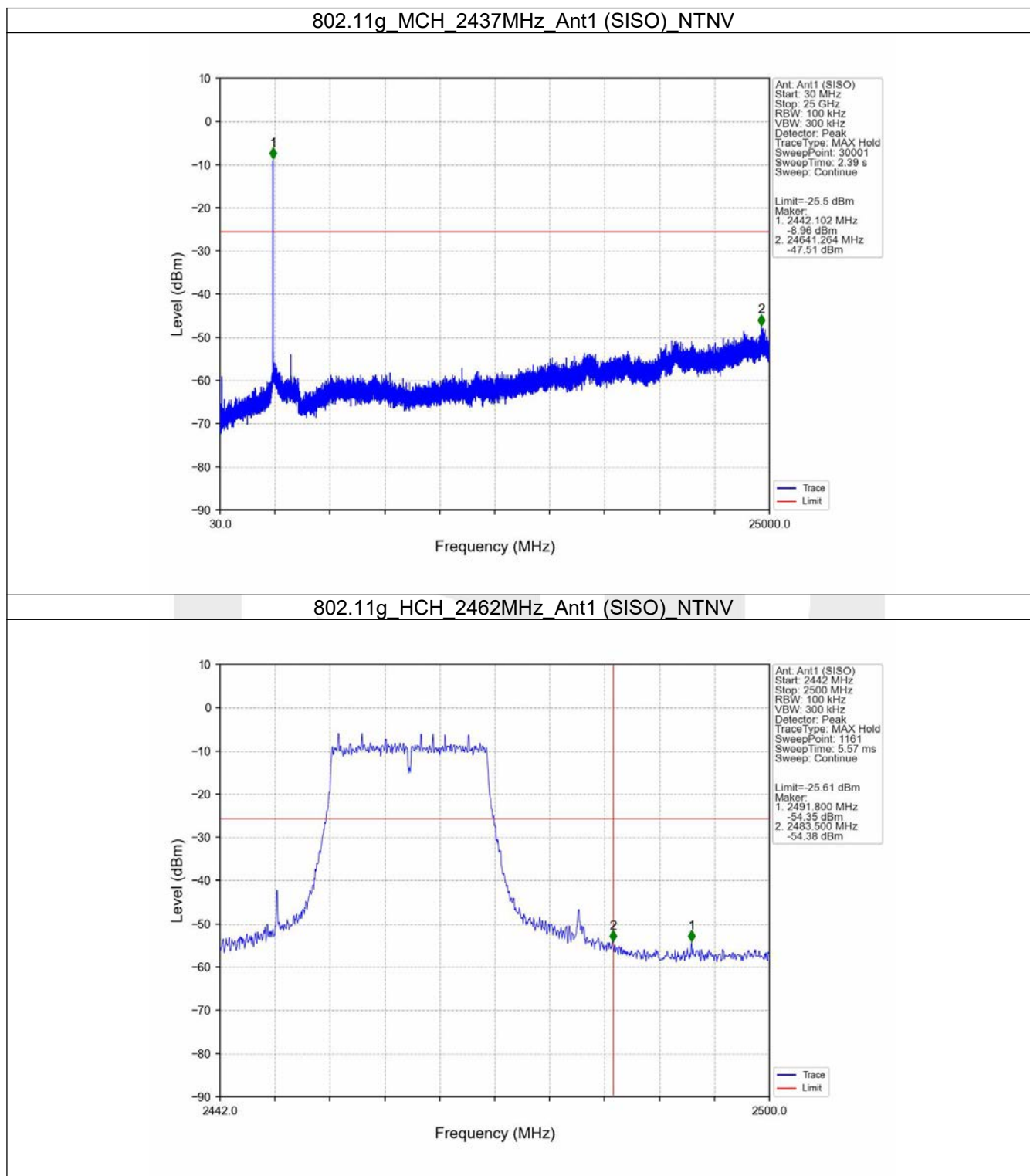


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

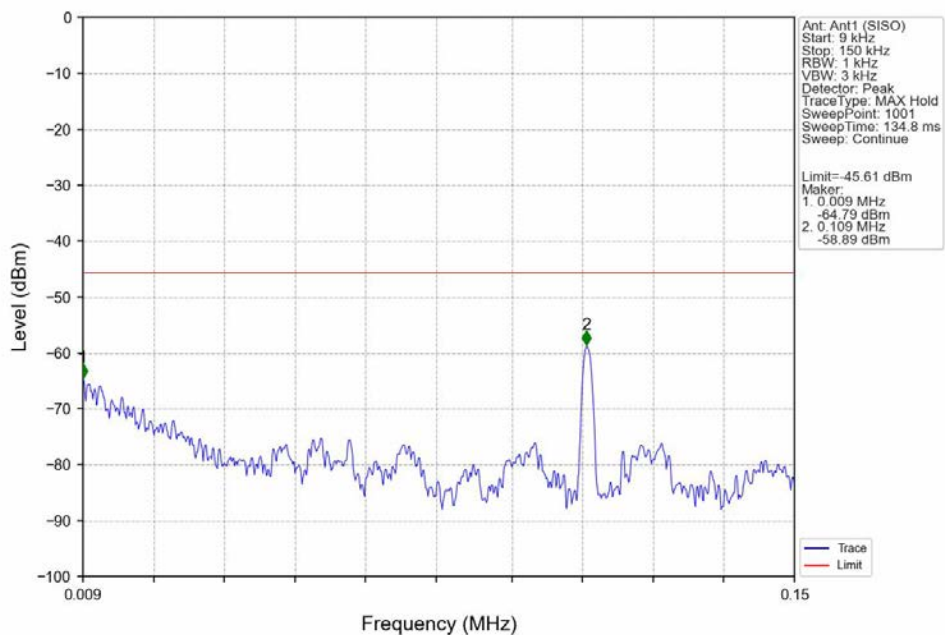


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

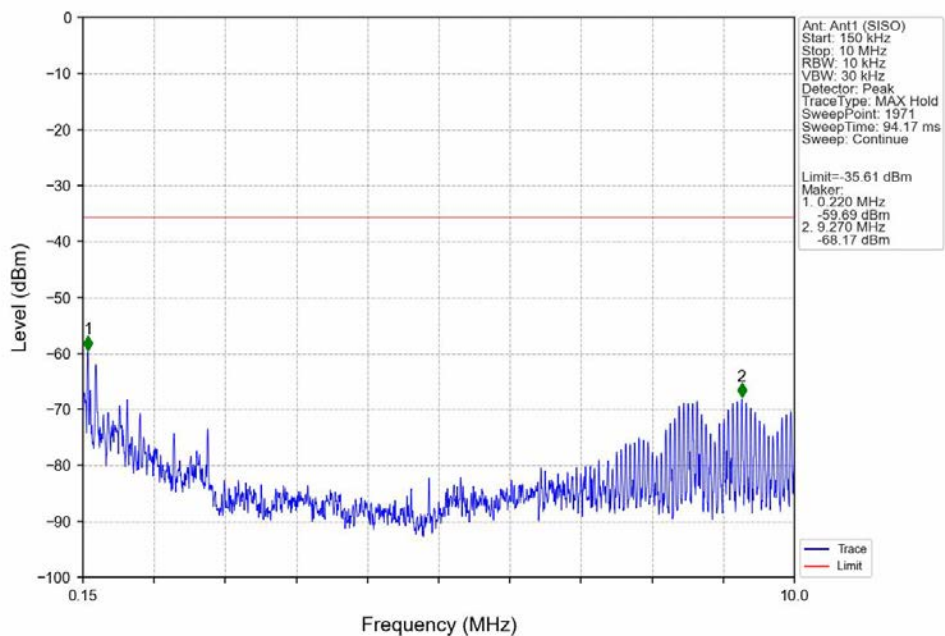




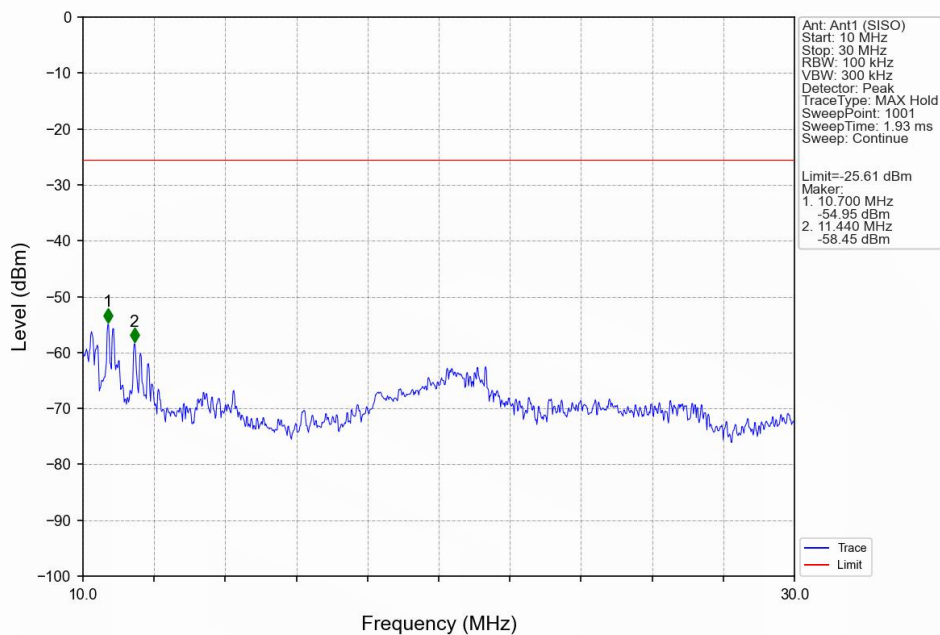
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



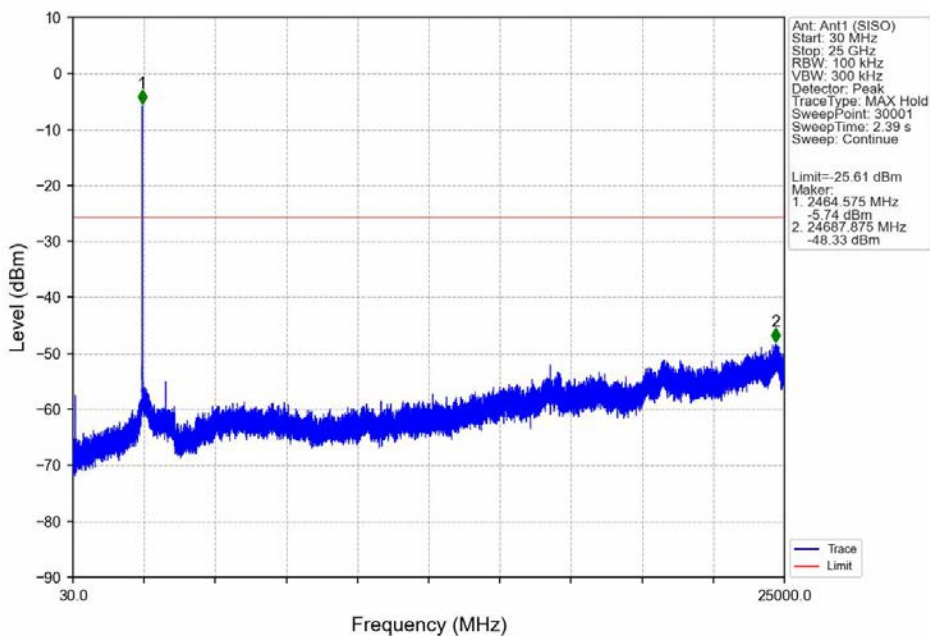
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



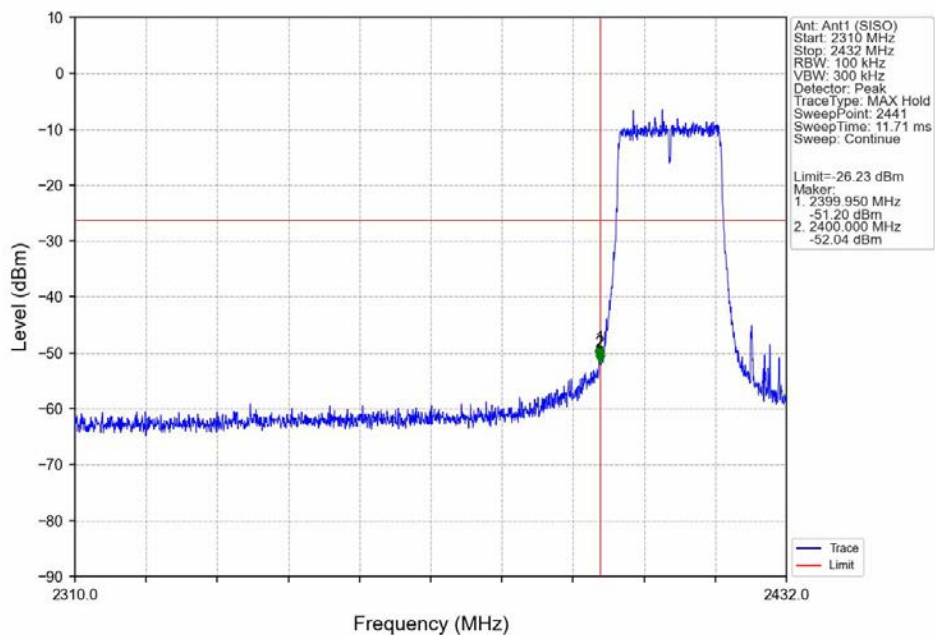
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



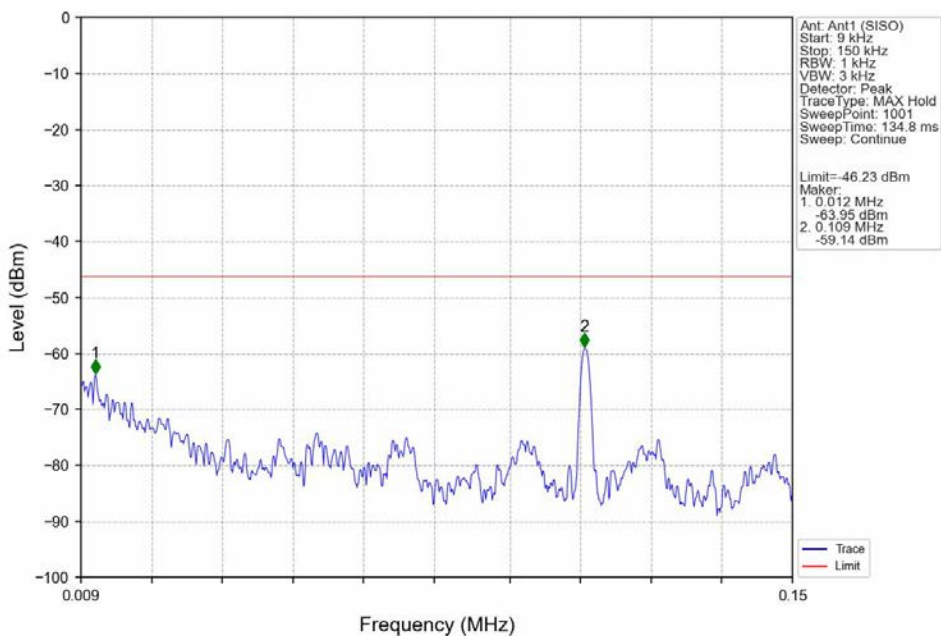
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



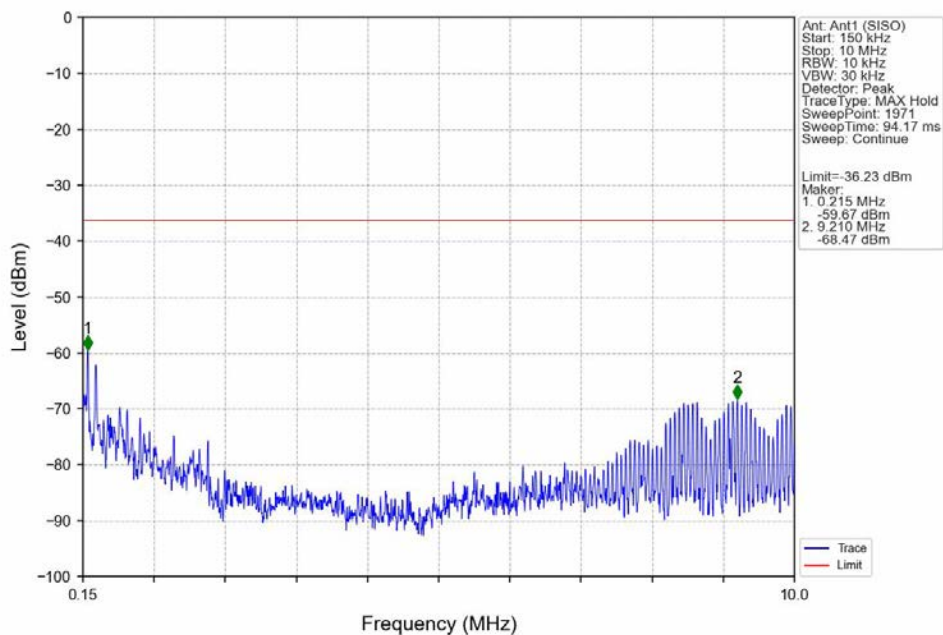
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



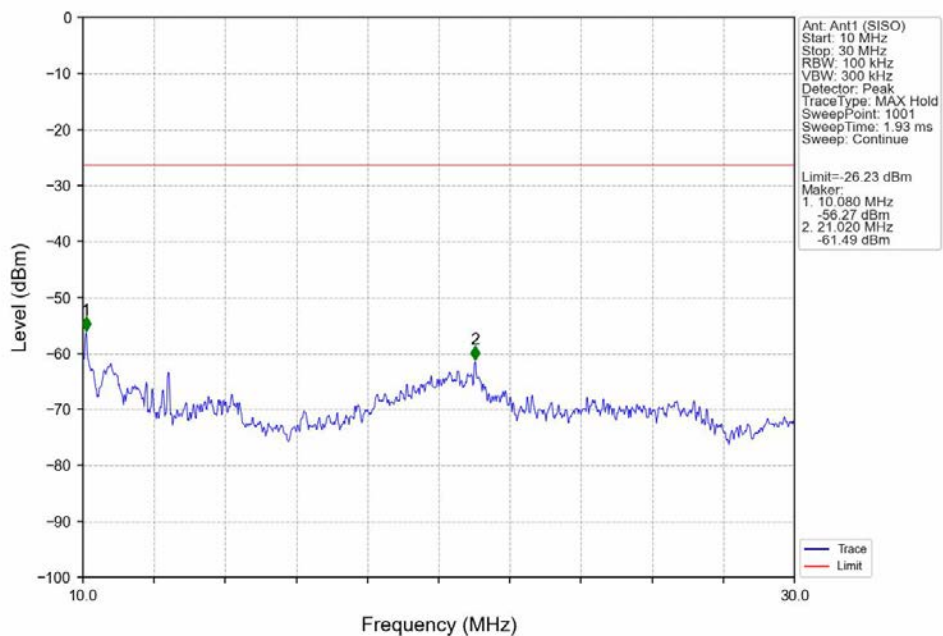
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



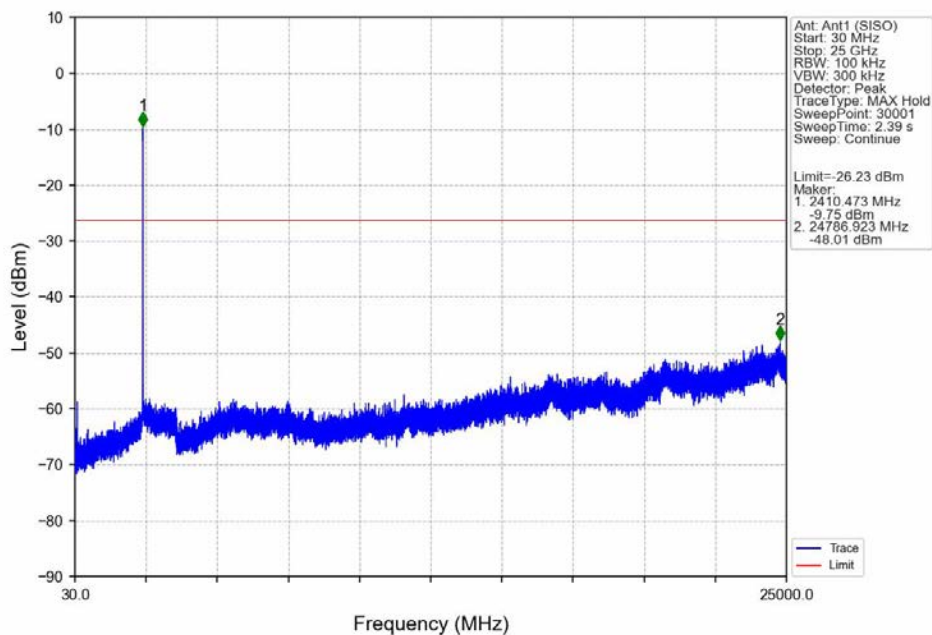
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



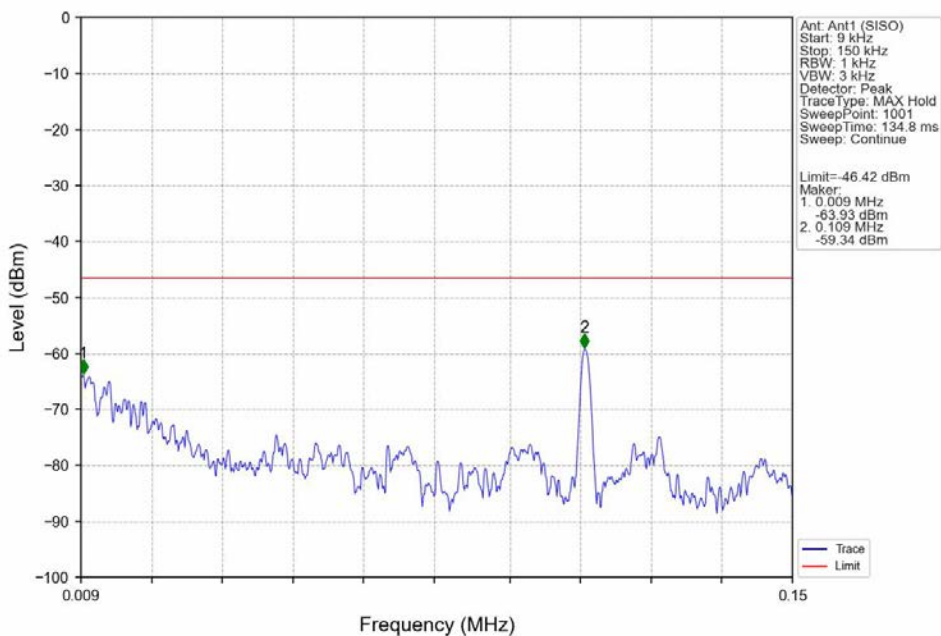
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

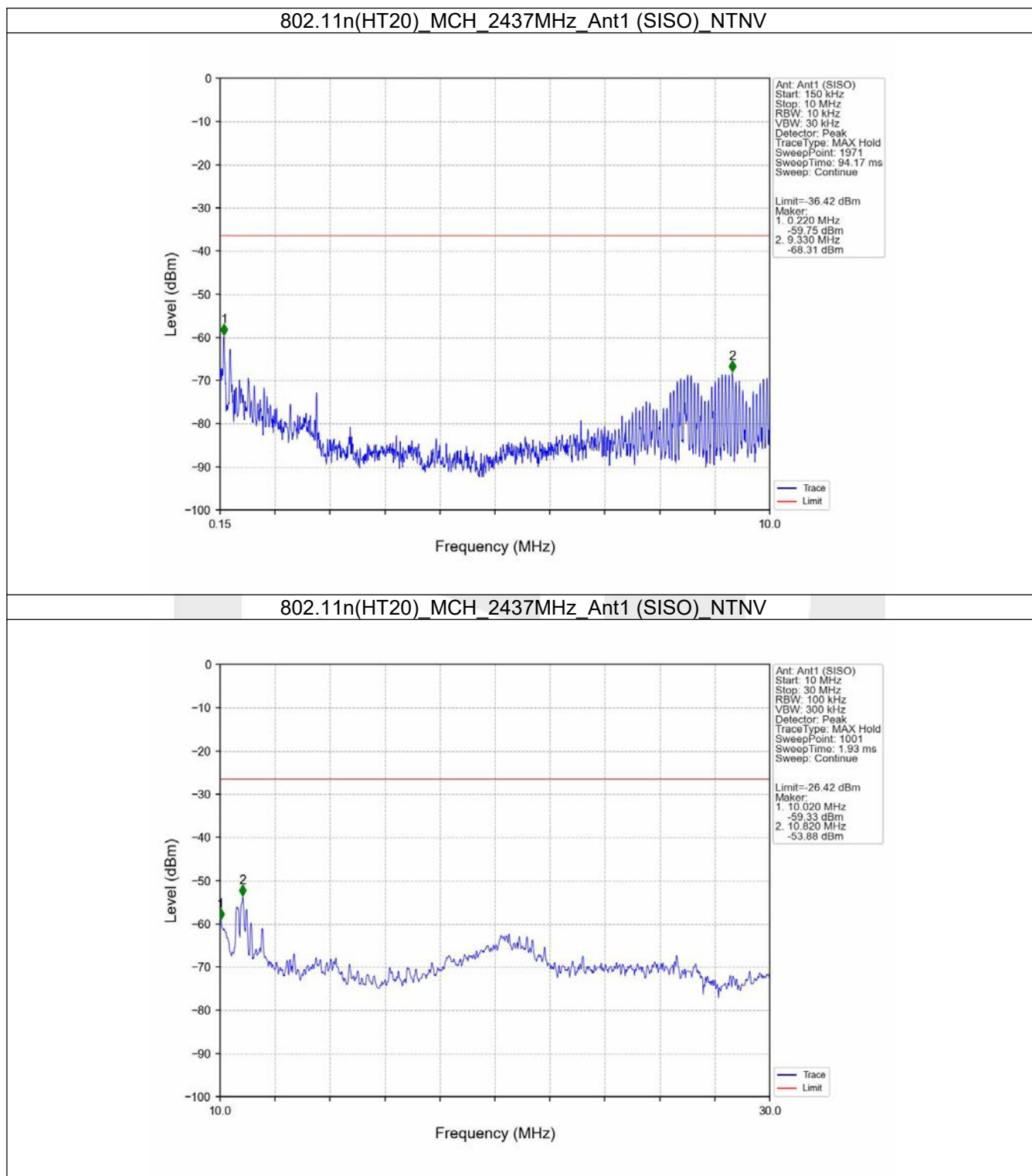


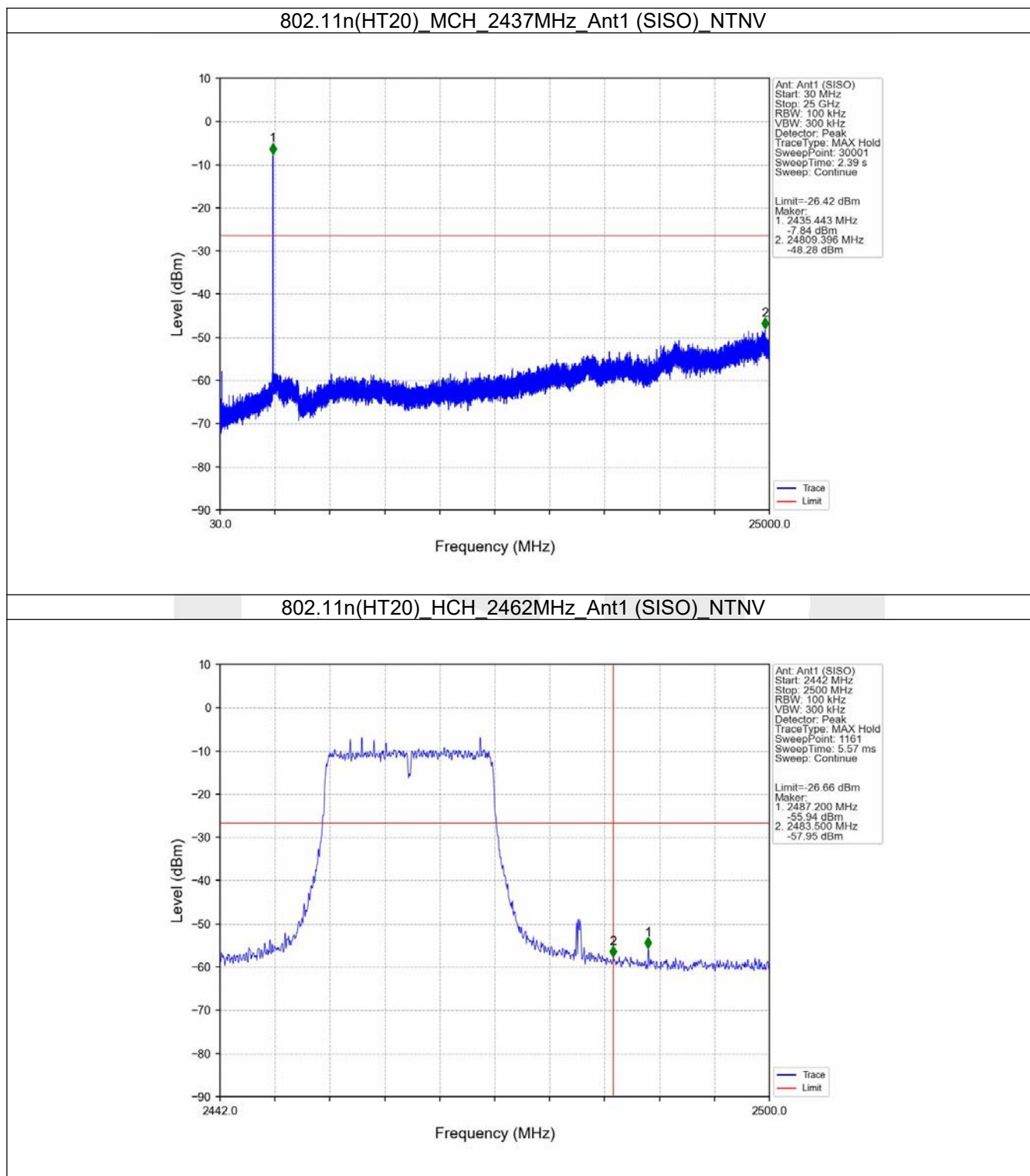
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



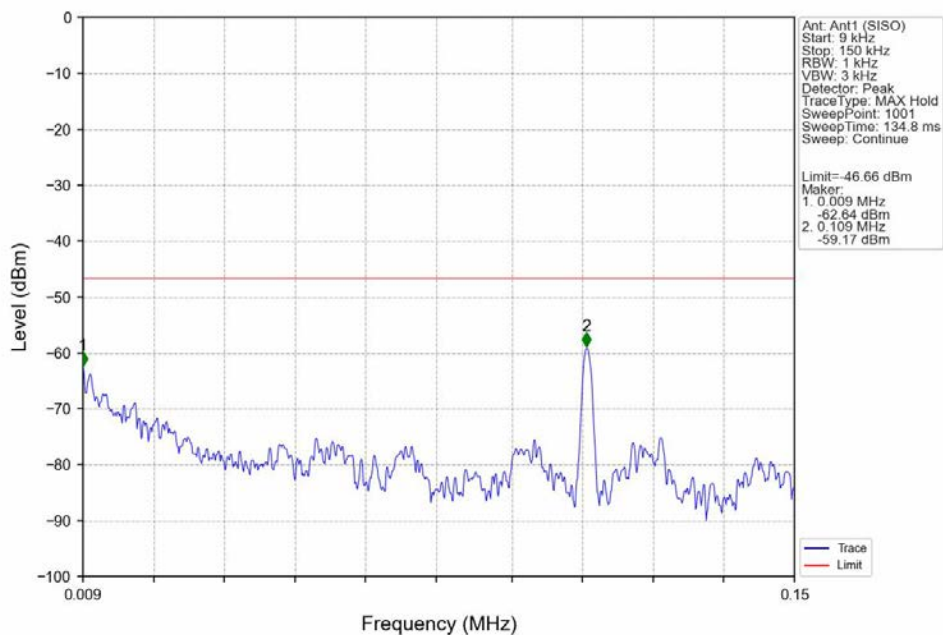
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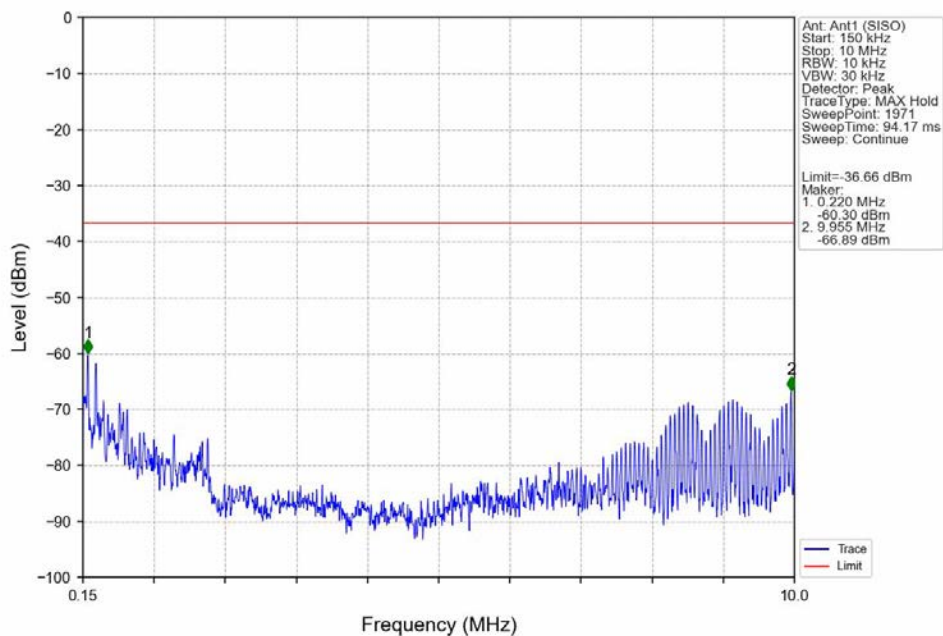


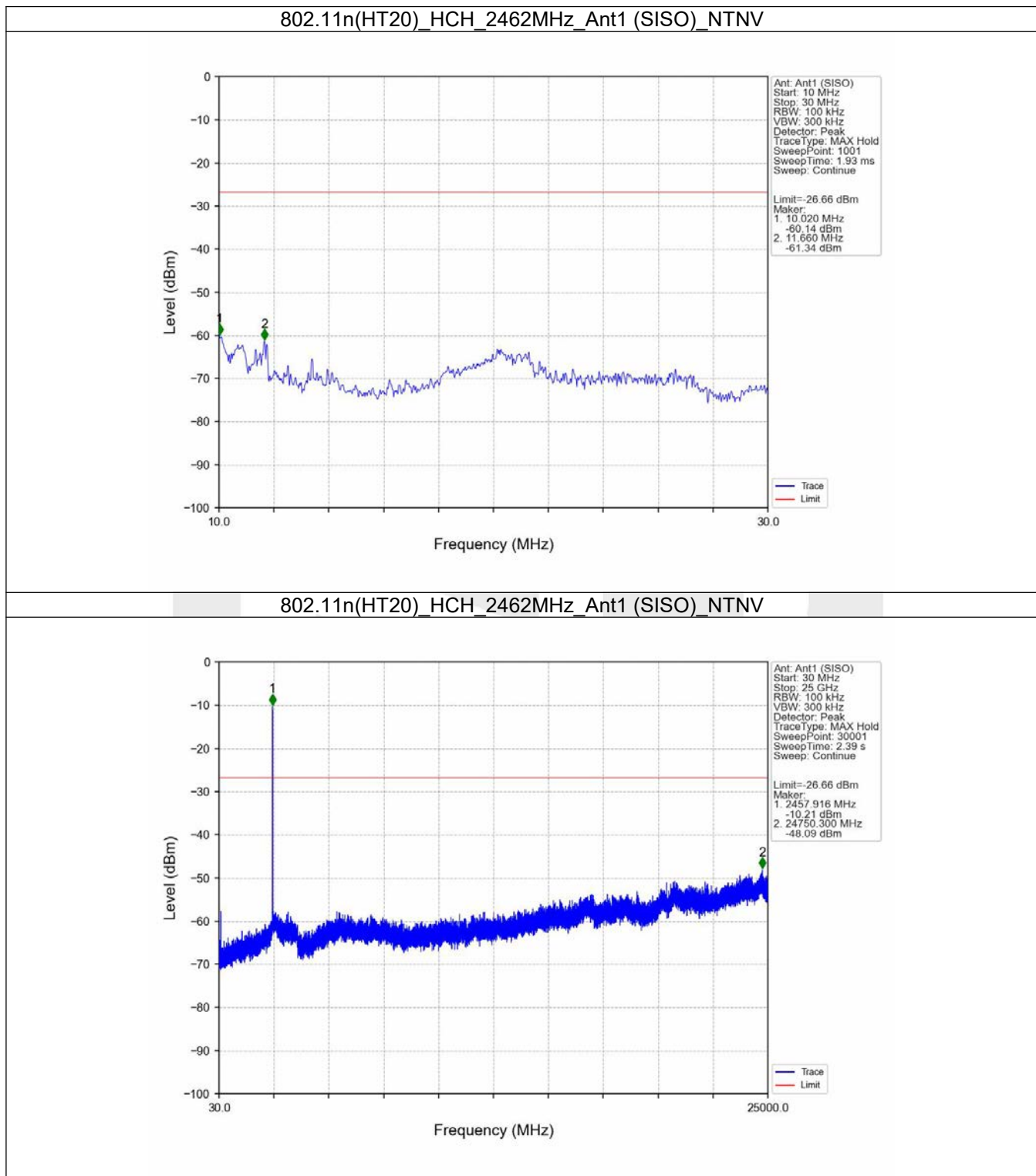


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





----- End of Report -----