

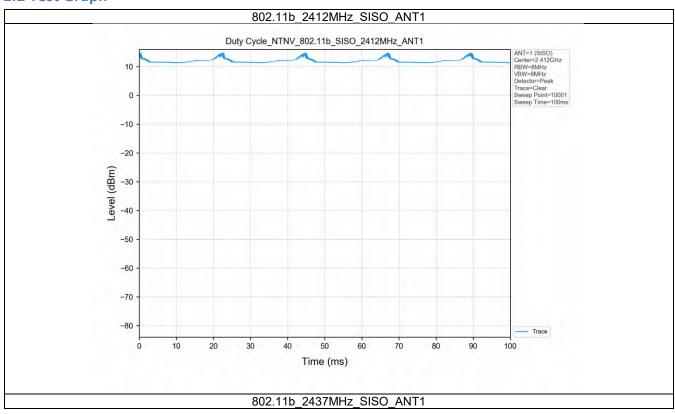
Appendix A for SHEM191001838501

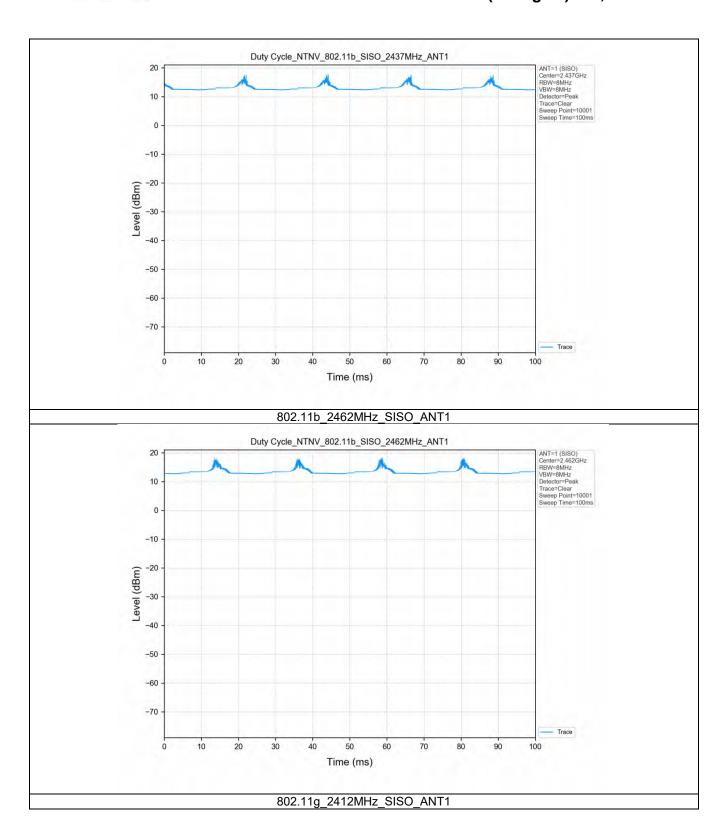
1. Duty Cycle

1.1 Test Result

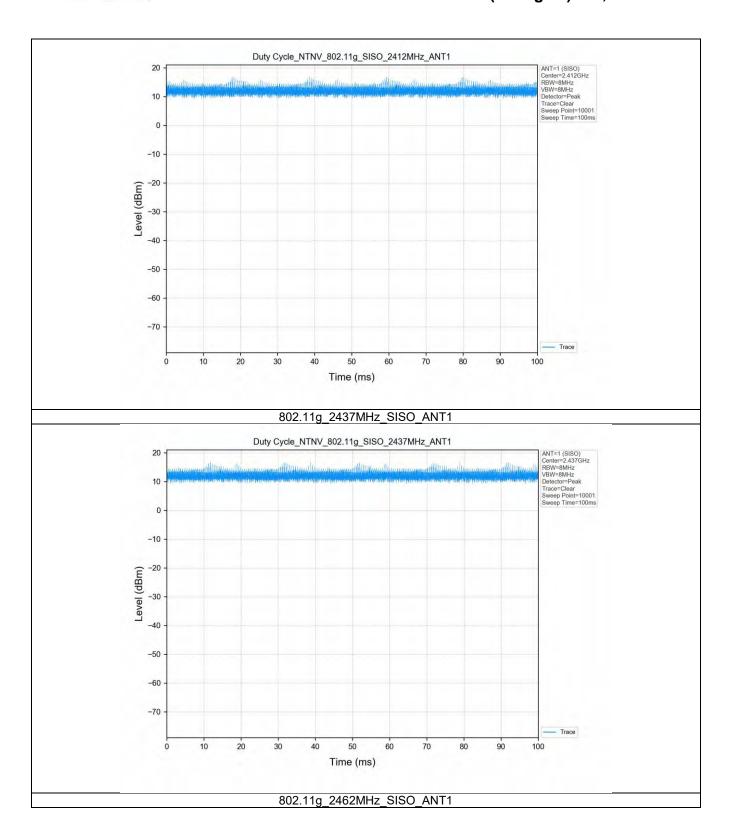
Test Mode	Channel Frequency(MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2412	SISO	1	100.000	100.000	100.00	0.00
802.11b	2437	SISO	1	100.000	100.000	100.00	0.00
	2462	SISO	1	100.000	100.000	100.00	0.00
	2412	SISO	1	100.000	100.000	100.00	0.00
802.11g	2437	SISO	1	100.000	100.000	100.00	0.00
	2462	SISO	1	100.000	100.000	100.00	0.00
	2412	SISO	1	100.000	100.000	100.00	0.00
802.11n(HT20)	2437	SISO	1	100.000	100.000	100.00	0.00
	2462	SISO	1	100.000	100.000	100.00	0.00
	2422	SISO	1	100.000	100.000	100.00	0.00
802.11n(HT40)	2437	SISO	1	100.000	100.000	100.00	0.00
	2452	SISO	1	100.000	100.000	100.00	0.00

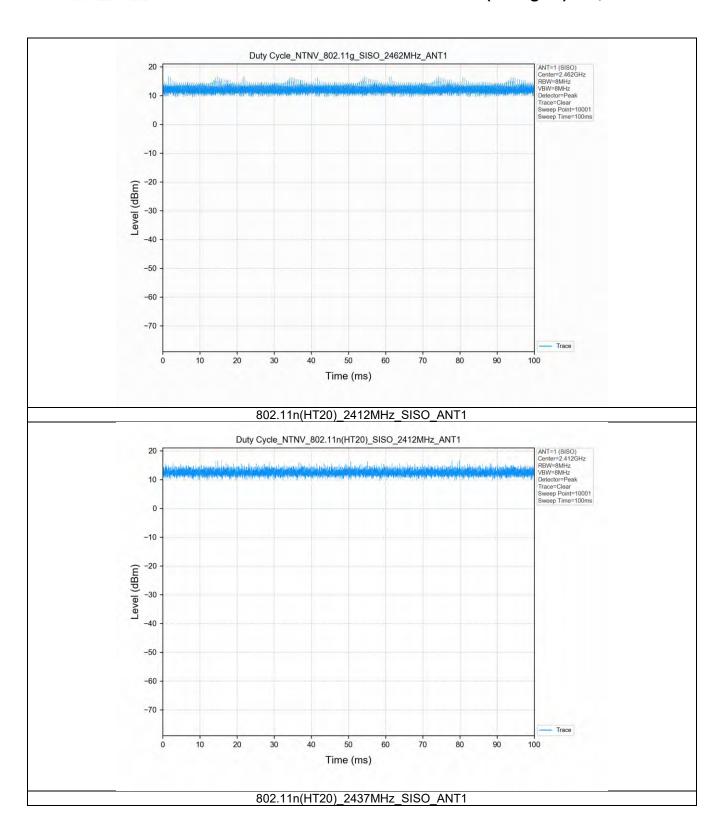
1.2 Test Graph



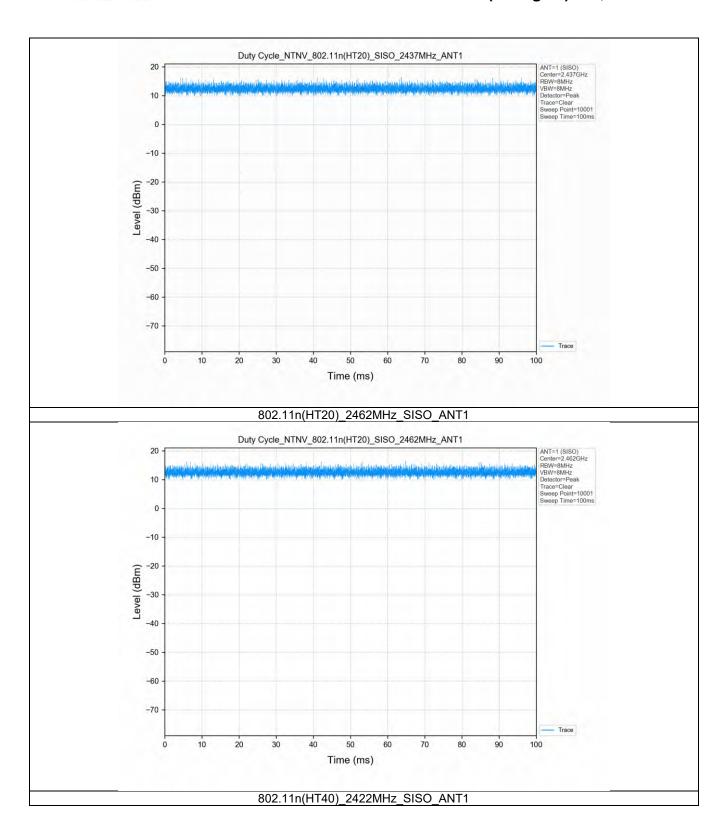


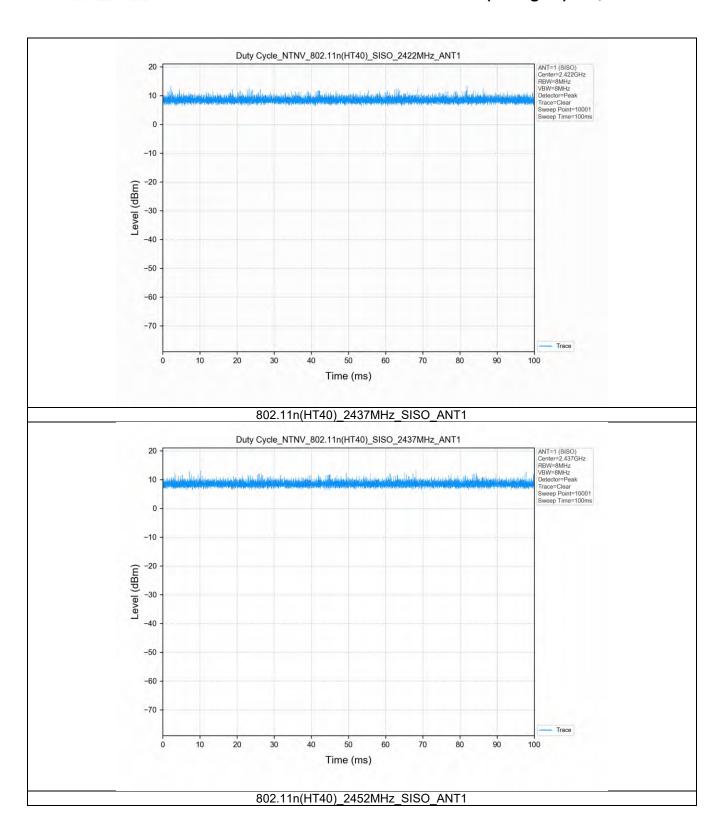




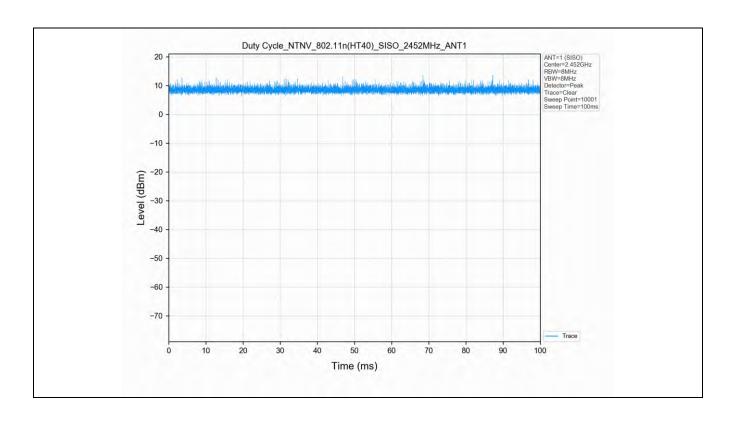












2. Bandwidth

2.1 Test Result

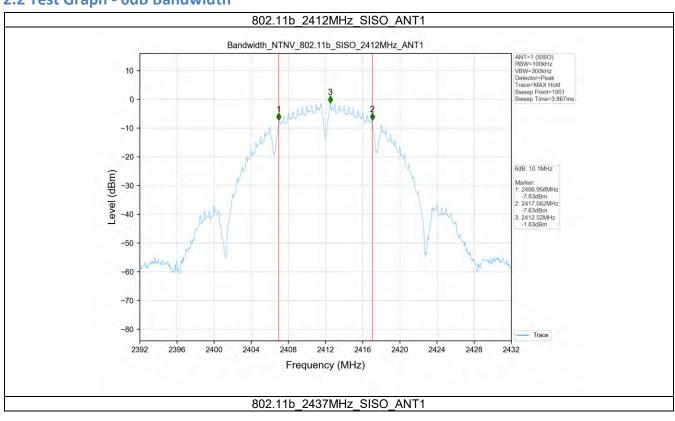
Test Mode	Frequency TY Type	TX Type	ANT No.	6dB Bai	Verdict	
Test Mode	(MHz)	1 × 1 ype	ANTINO.	Test Result (MHz)	Limits (MHz)	verdict
	2412	SISO	1	10.100	≥0.5	PASS
802.11b	2437	SISO	1	10.100	≥0.5	PASS
	2462	SISO	1	10.090	≥0.5	PASS
	2412	SISO	1	16.620	≥0.5	PASS
802.11g	2437	SISO	1	16.610	≥0.5	PASS
	2462	SISO	1	16.600	≥0.5	PASS
	2412	SISO	1	17.820	≥0.5	PASS
802.11n(HT20)	2437	SISO	1	17.850	≥0.5	PASS
	2462	SISO	1	17.830	≥0.5	PASS
	2422	SISO	1	36.460	≥0.5	PASS
802.11n(HT40)	2437	SISO	1	36.480	≥0.5	PASS
` ´	2452	SISO	1	36.450	≥0.5	PASS

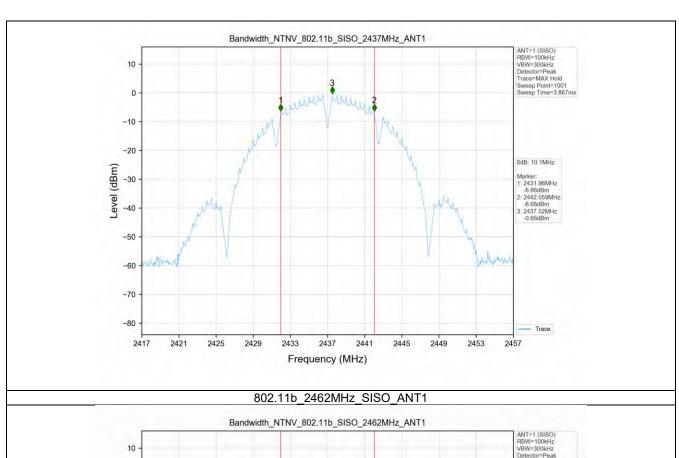
Test Mode	Frequency	Frequency TX Type	ANT No.	99% Occupied Bandwidth		
rest Mode	(MHz)	17 Type	ANTINO.	Test Result (MHz)		
	2412	SISO	1	15.110	Only for Report Use	
802.11b	2437	SISO	1	15.080	Only for Report Use	
	2462	SISO	1	15.090	Only for Report Use	
902 11a	2412	SISO	1	16.990	Only for Report Use	
802.11g	2437	SISO	1	16.970	Only for Report Use	

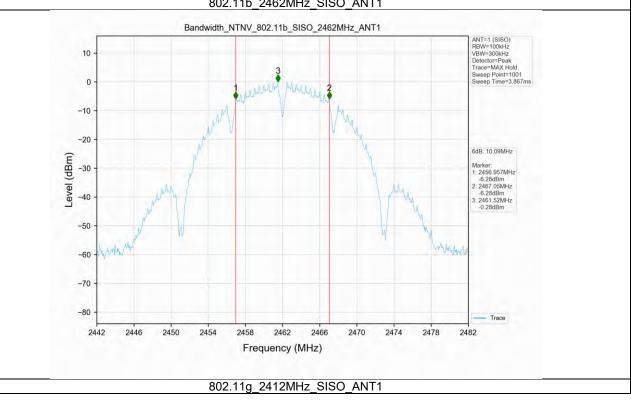


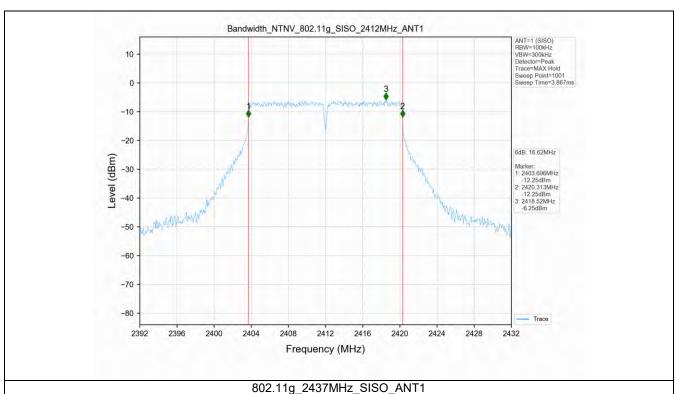
	2462	SISO	1	16.990	Only for Report Use
	2412	SISO	1	18.010	Only for Report Use
802.11n(HT20)	2437	SISO	1	18.030	Only for Report Use
, ,	2462	SISO	1	18.010	Only for Report Use
	2422	SISO	1	36.610	Only for Report Use
802.11n(HT40)	2437	SISO	1	36.580	Only for Report Use
	2452	SISO	1	36.620	Only for Report Use

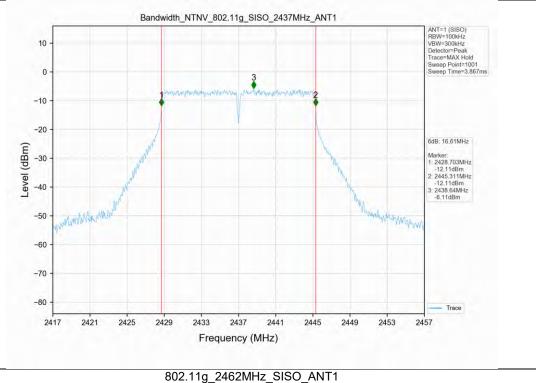
2.2 Test Graph - 6dB Bandwidth

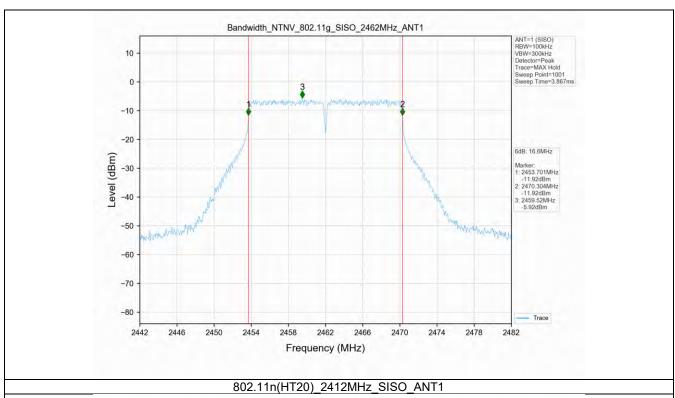


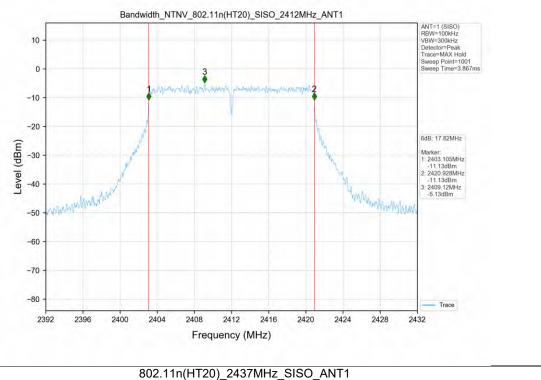


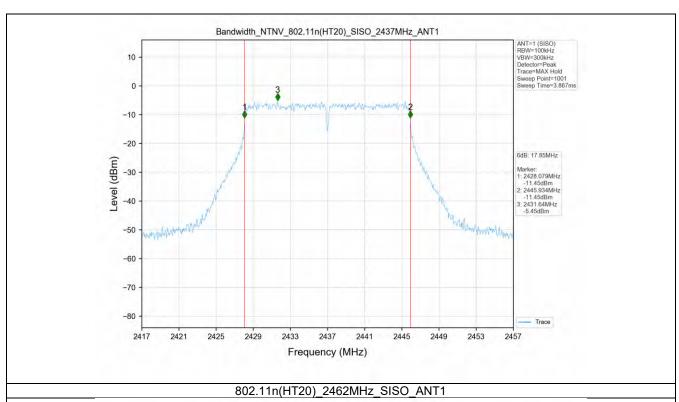


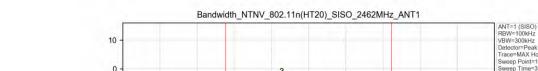


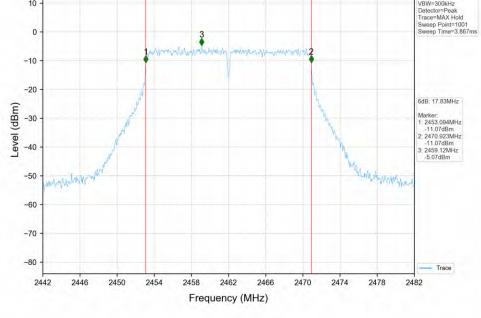




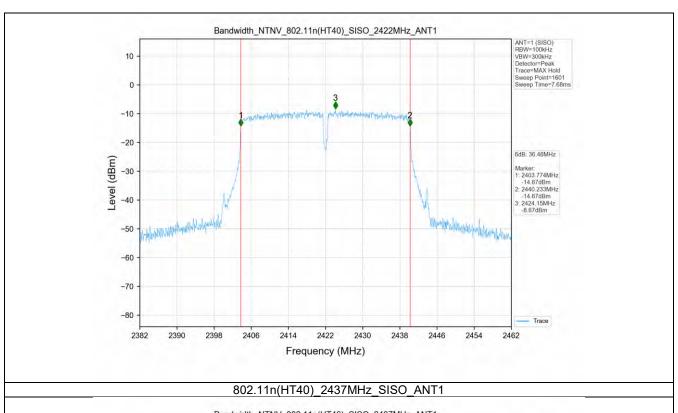






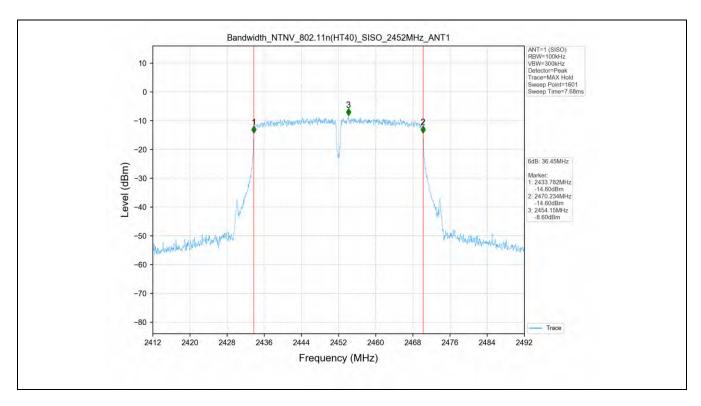


802.11n(HT40) 2422MHz SISO ANT1

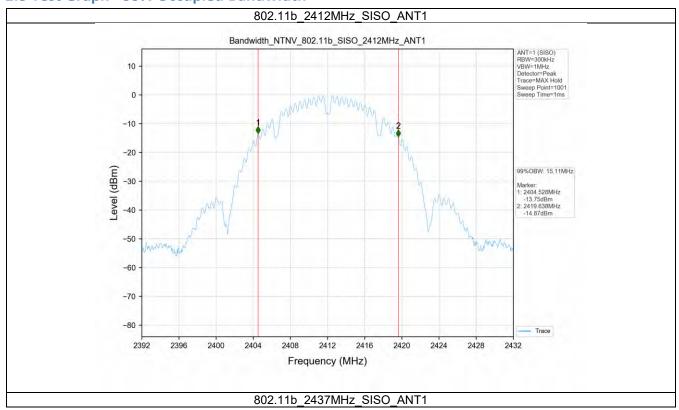


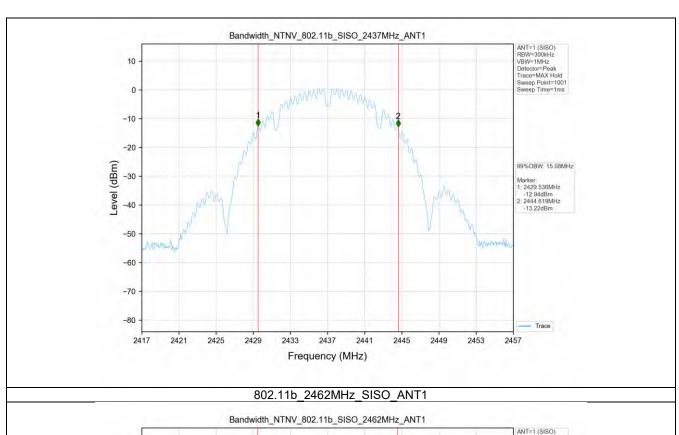
Bandwidth_NTNV_802.11n(HT40)_SISO_2437MHz_ANT1 ANT=1 (SISO) RBW=100kHz VBW=300kHz 10 Detector=Peak Trace=MAX Hold Sweep Point=1601 Sweep Time=7.68ms 0 -10 -20 6dB: 36.48MHz Level (dBm) Marker: 1: 2418.767MHz -14.85dBm 2: 2455.248MHz -14.85dBm 3: 2439.15MHz -8.85dBm -30 -40 had not seen the flowing of the host of his had The hope about the section of the later of the -50 -60 -70 -80 2413 2429 2437 2445 2453 2397 2405 2421 2461 2469 2477 Frequency (MHz) 802.11n(HT40) 2452MHz SISO ANT1

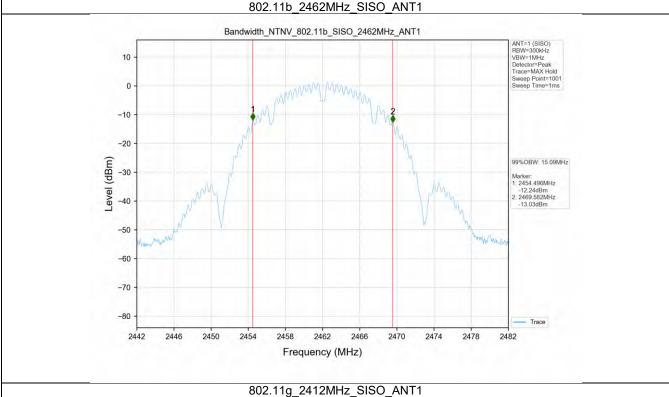


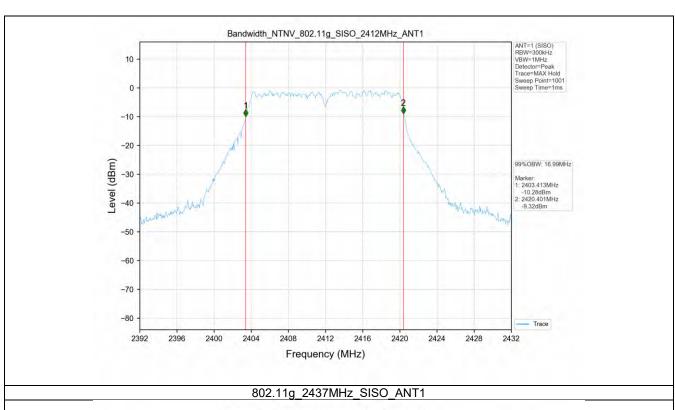


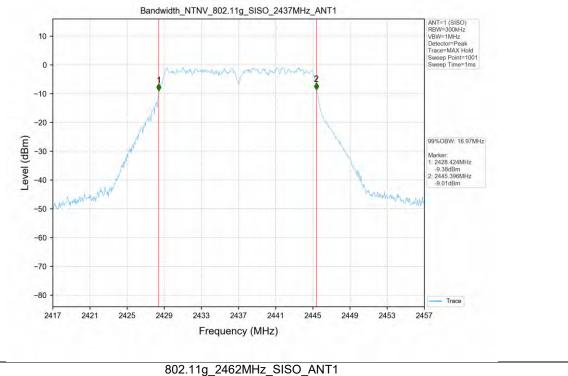
2.3 Test Graph - 99% Occupied Bandwidth

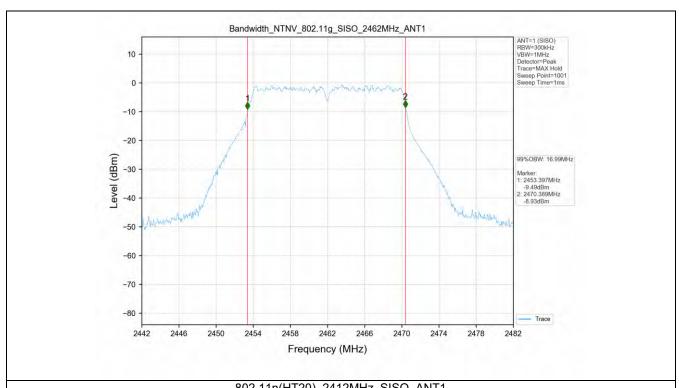




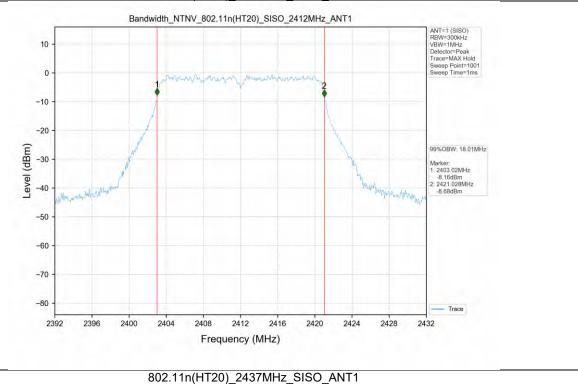


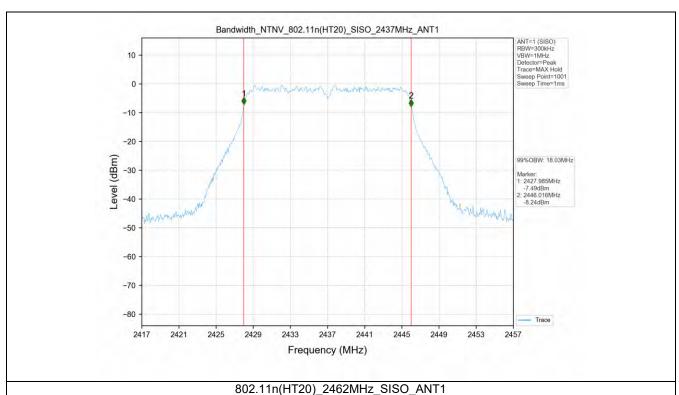


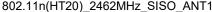


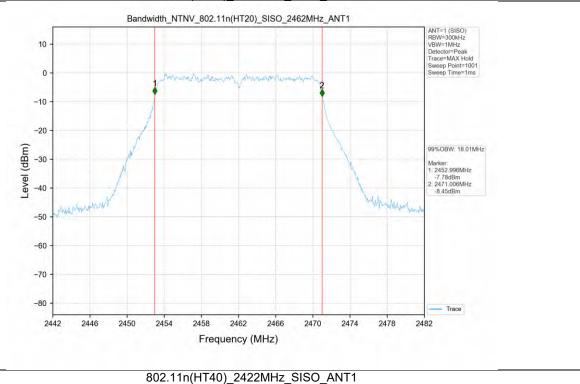


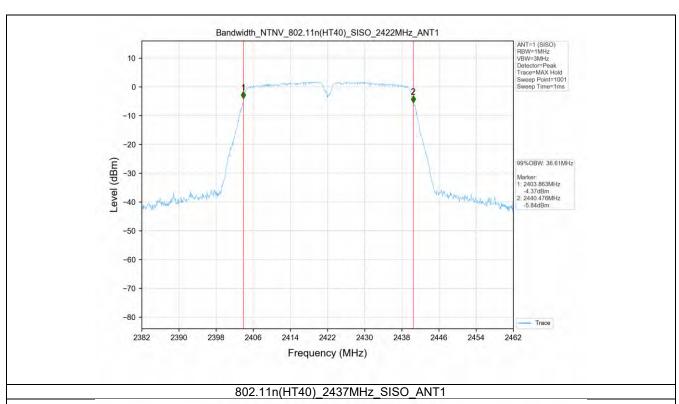
802.11n(HT20)_2412MHz_SISO_ANT1

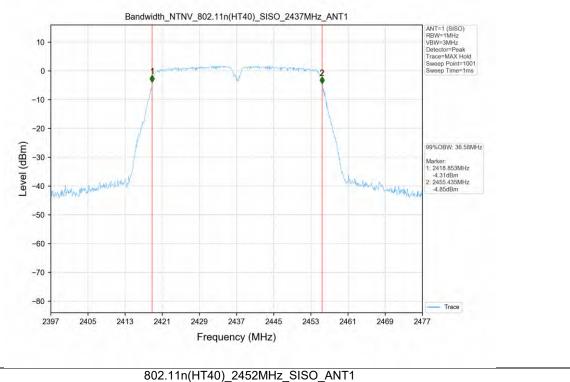




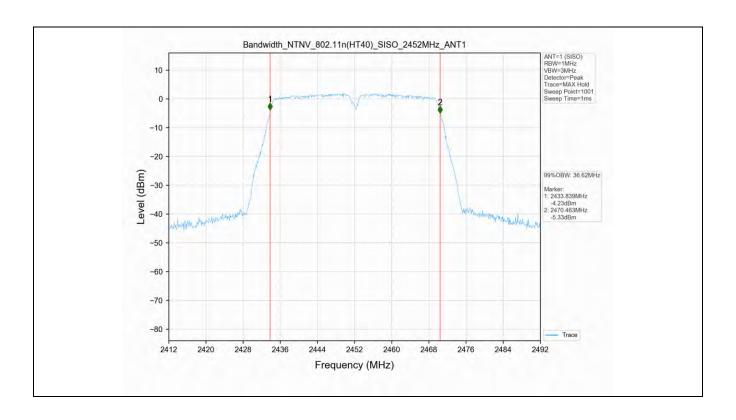










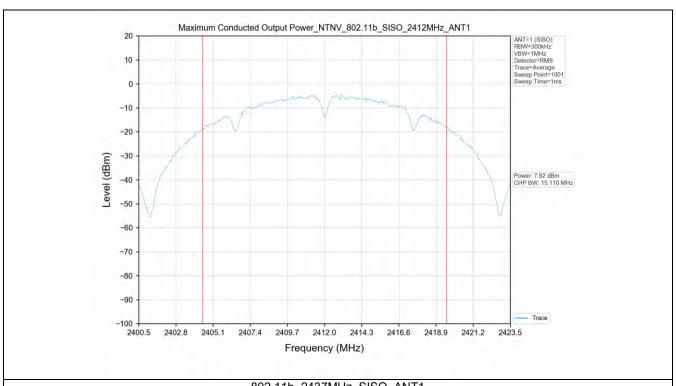


3. Maximum Conducted Output Power

3.1 Test Result

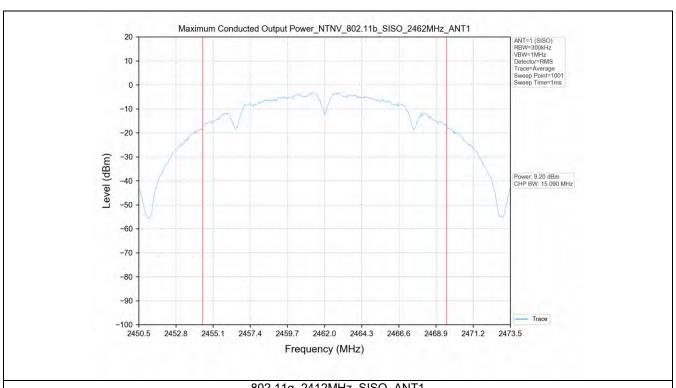
Test Mode	Frequency (MHz)	Тх Туре	Measured Average Output Power (dBm) Ant 1	Limits (dBm)	Verdict
	2412	SISO	7.92	≤30	PASS
802.11b	2437	SISO	8.82	≤30	PASS
	2462	SISO	9.20	≤30	PASS
	2412	SISO	8.30	≤30	PASS
802.11g	2437	SISO	8.38	≤30	PASS
	2462	SISO	8.45	≤30	PASS
	2412	SISO	8.95	≤30	PASS
802.11n(HT20)	2437	SISO	8.91	≤30	PASS
	2462	SISO	8.99	≤30	PASS
	2422	SISO	8.42	≤30	PASS
802.11n(HT40)	2437	SISO	8.43	≤30	PASS
	2452	SISO	8.45	≤30	PASS

3.2 Test Graph

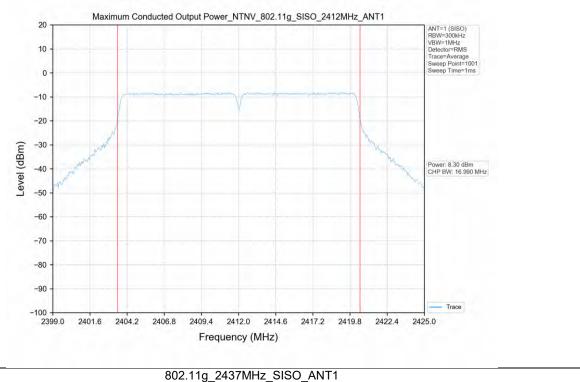


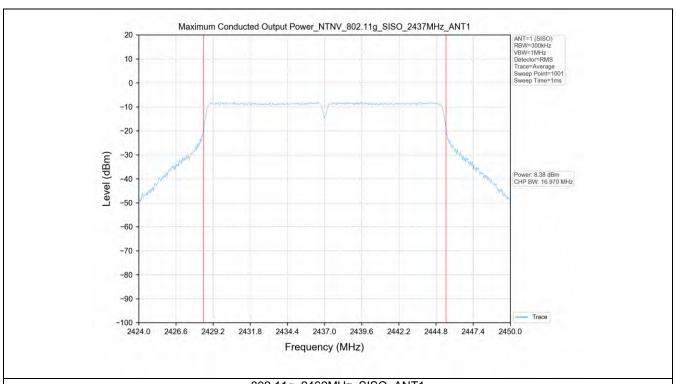
802.11b_2437MHz_SISO_ANT1



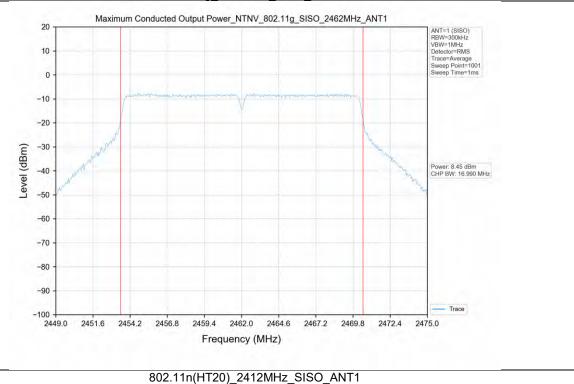


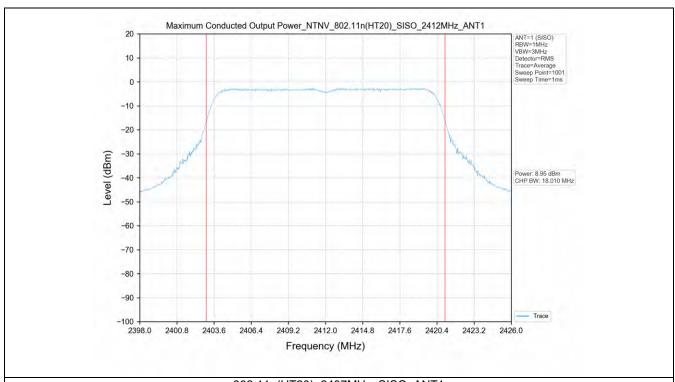
802.11g_2412MHz_SISO_ANT1



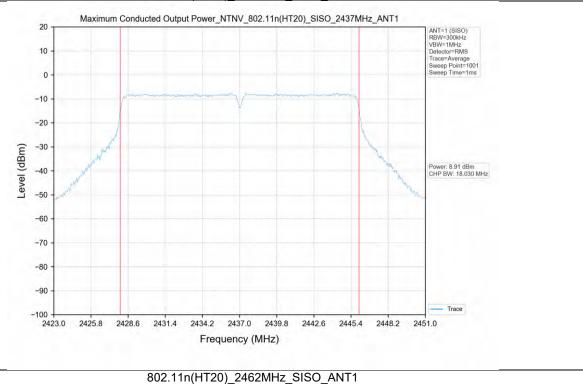


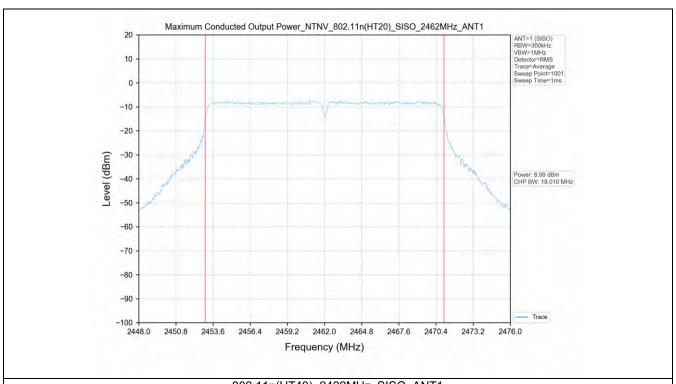
802.11g_2462MHz_SISO_ANT1



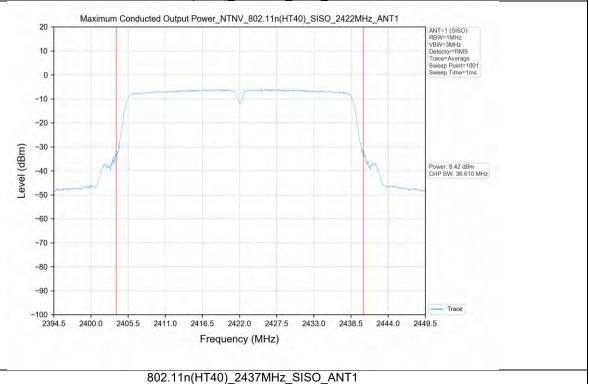


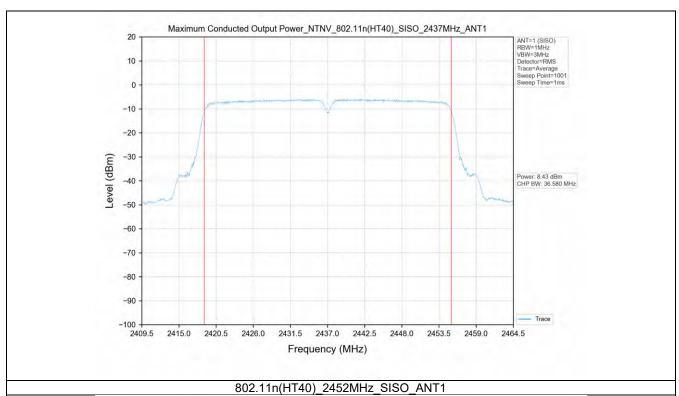
802.11n(HT20)_2437MHz_SISO_ANT1

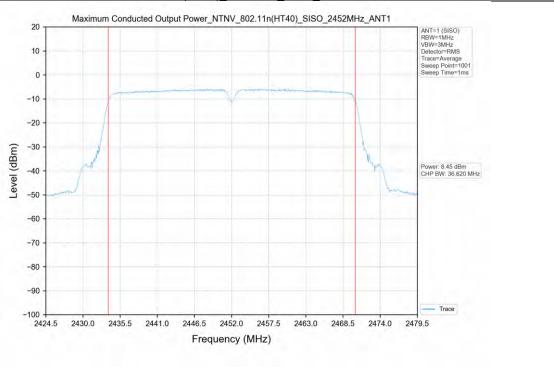




802.11n(HT40)_2422MHz_SISO_ANT1







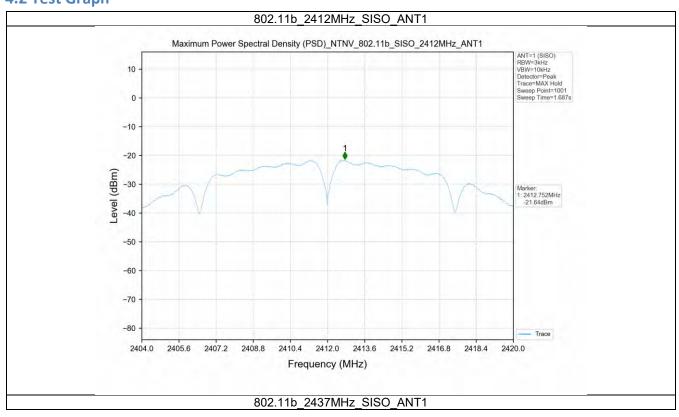


4. Maximum Power Spectral Density (PSD)

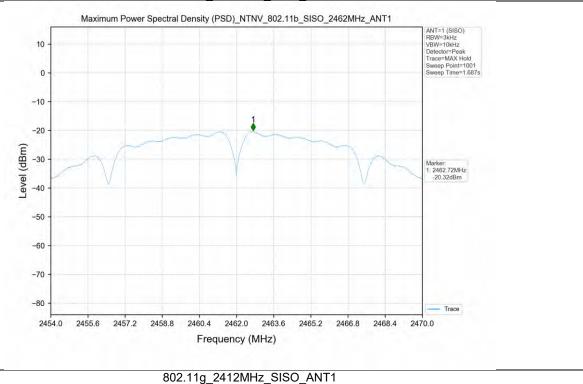
4.1 Test Result

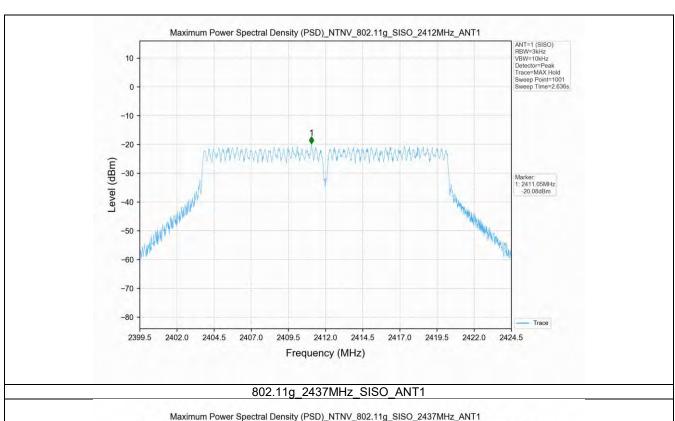
Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz) Ant 1	Limits (dBm/3kHz)	Verdict
	2412	SISO	-21.64	≤8	PASS
802.11b	2437	SISO	-20.74	≤8	PASS
	2462	SISO	-20.32	≤8	PASS
	2412	SISO	-20.08	≤8	PASS
802.11g	2437	SISO	-20.12	≤8	PASS
	2462	SISO	-19.95	≤8	PASS
	2412	SISO	-19.25	≤8	PASS
802.11n(HT20)	2437	SISO	-19.02	≤8	PASS
	2462	SISO	-18.78	≤8	PASS
	2422	SISO	-20.33	≤8	PASS
802.11n(HT40)	2437	SISO	-21.65	≤8	PASS
	2452	SISO	-21.50	≤8	PASS

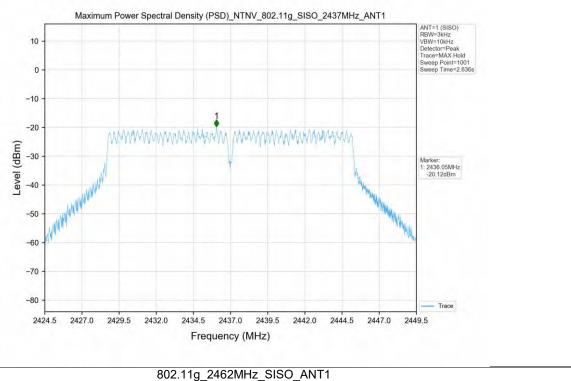
4.2 Test Graph

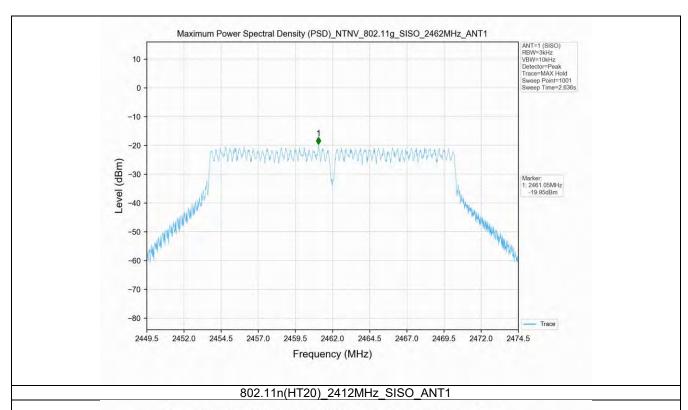


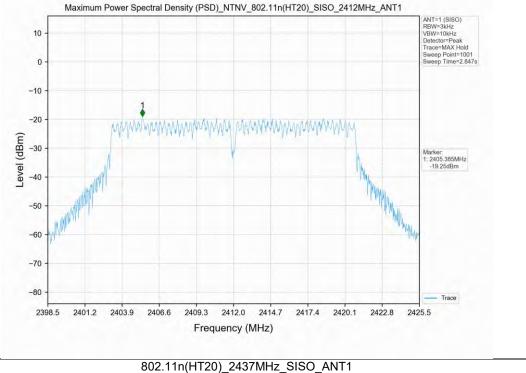


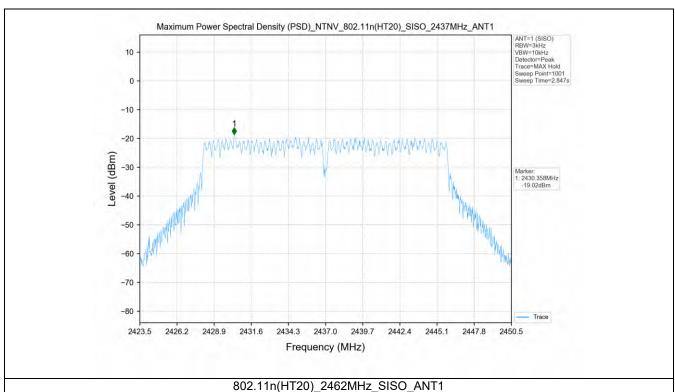


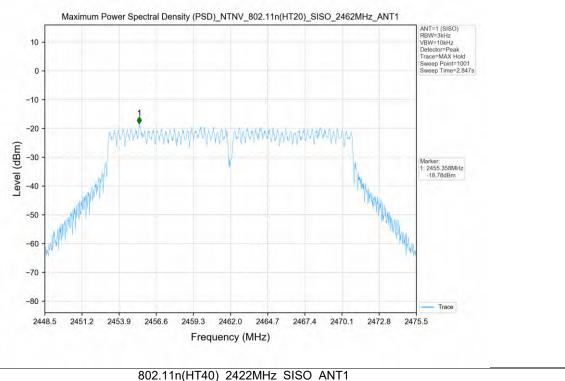


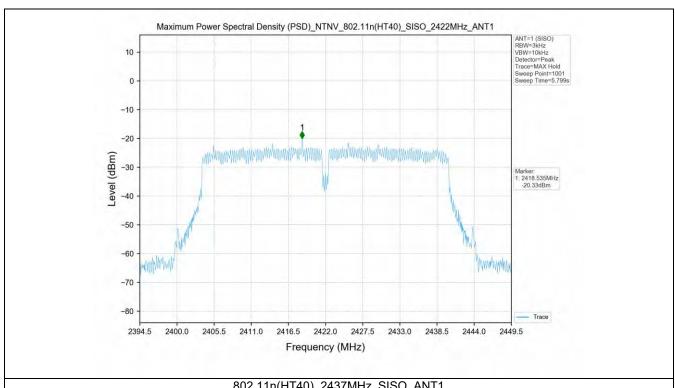




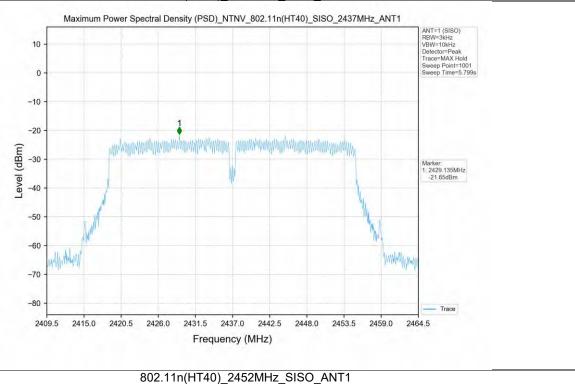




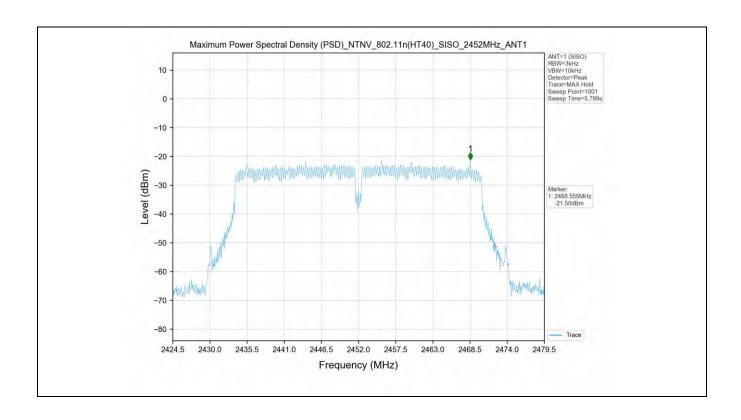




802.11n(HT40)_2437MHz_SISO_ANT1







5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBc)	Limits (dBc)	Verdict
	2412	SISO	1	Refer to test graph	≤-30	PASS
802.11b	2437	SISO	1	Refer to test graph	≤-30	PASS
	2462	SISO	1	Refer to test graph	≤-30	PASS
	2412	SISO	1	Refer to test graph	≤-30	PASS
802.11g	2437	SISO	1	Refer to test graph	≤-30	PASS
	2462	SISO	1	Refer to test graph	≤-30	PASS
	2412	SISO	1	Refer to test graph	≤-30	PASS
802.11n(HT20)	2437	SISO	1	Refer to test graph	≤-30	PASS
	2462	SISO	1	Refer to test graph	≤-30	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	≤-30	PASS
` ′	2437	SISO	1	Refer to test	≤-30	PASS



			graph		
2452	SISO	1	Refer to test graph	≤-30	PASS

5.2 Test Graph

