

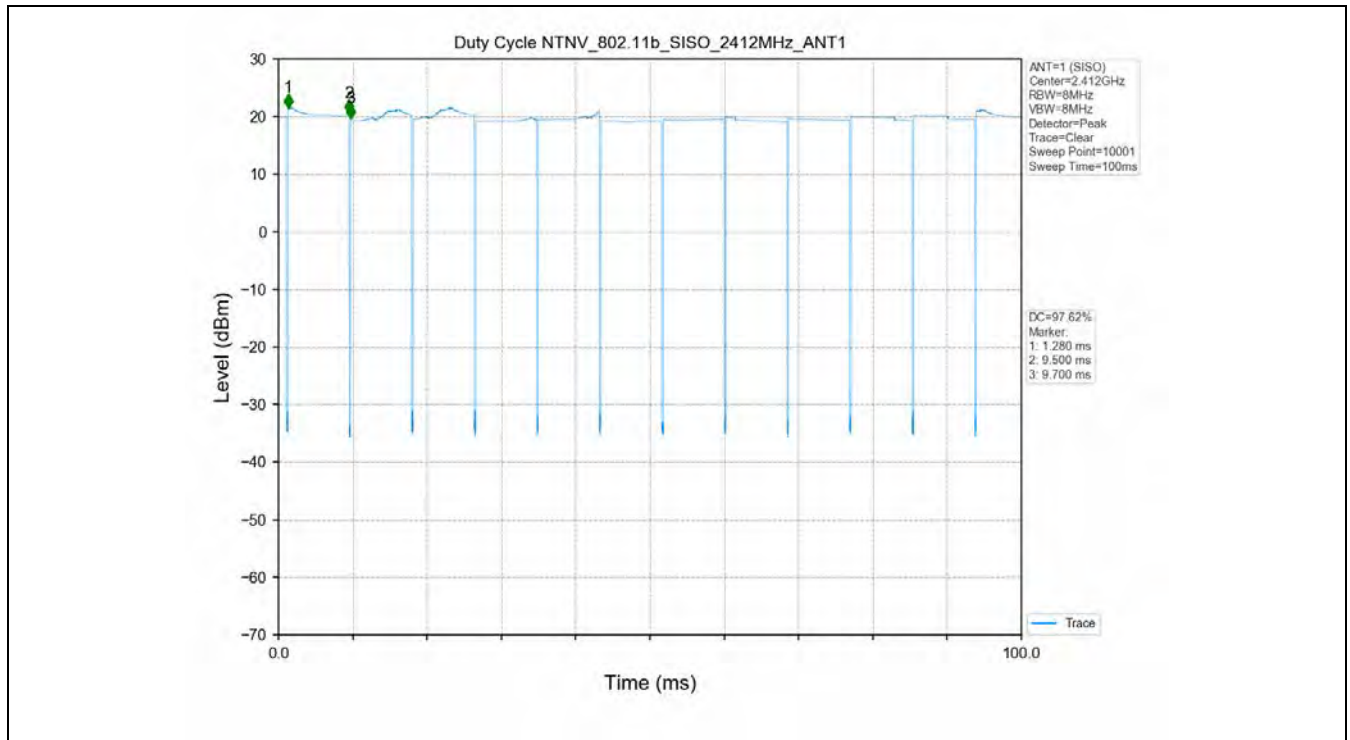
Appendix A for SHEM200900766801

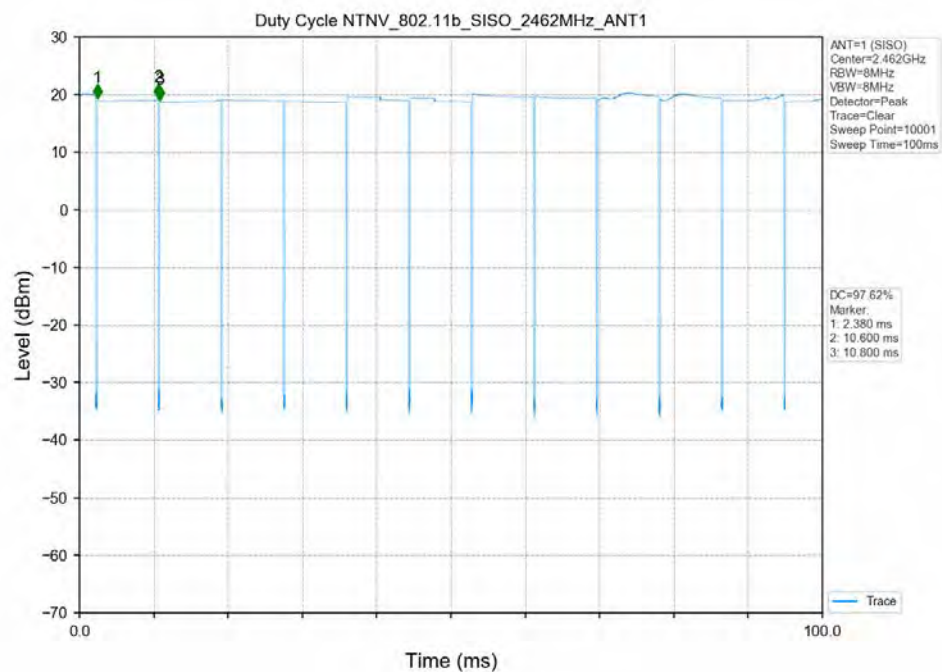
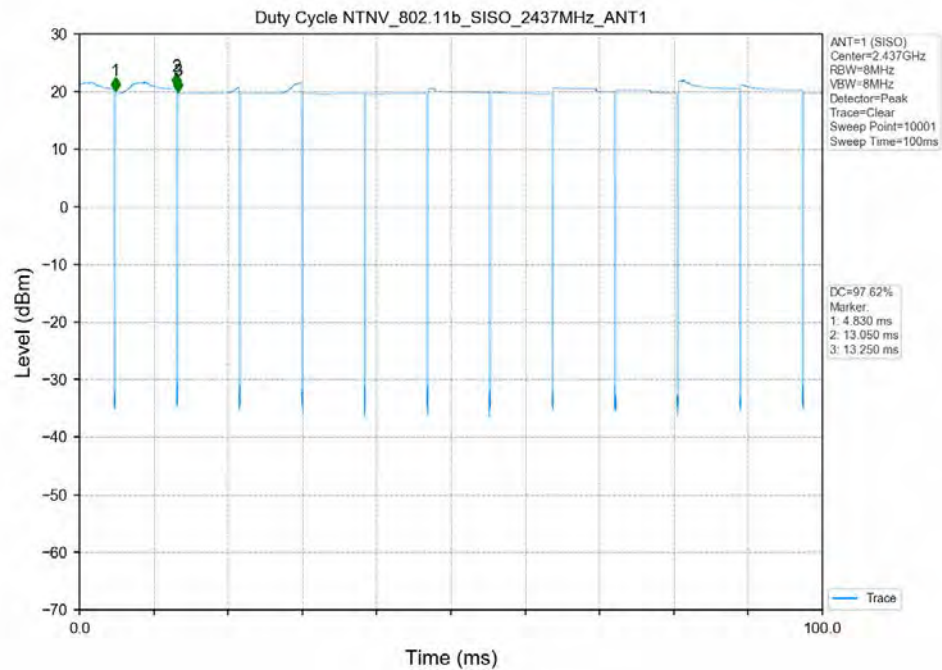
1. Duty Cycle

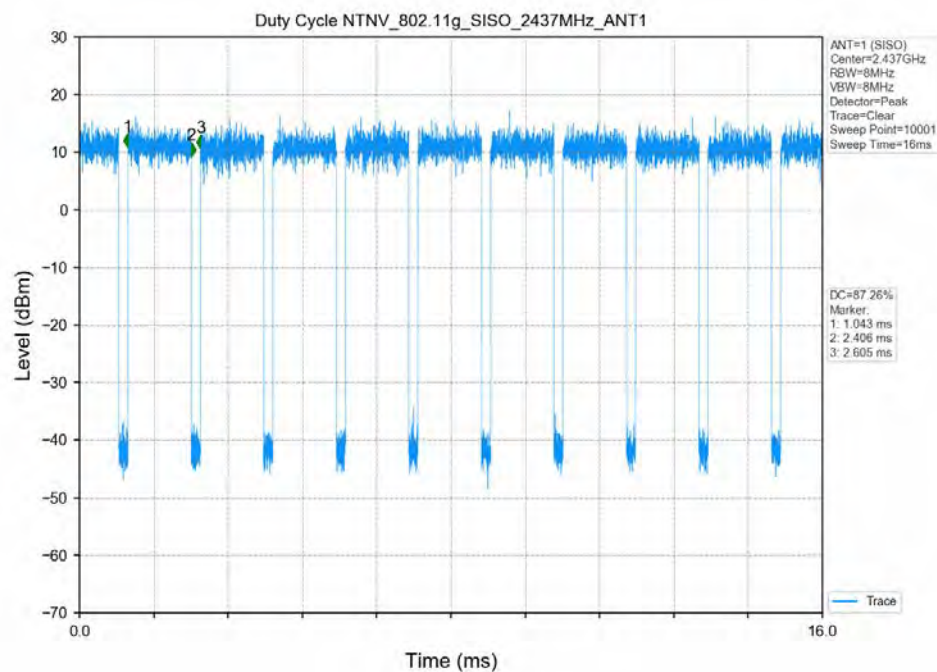
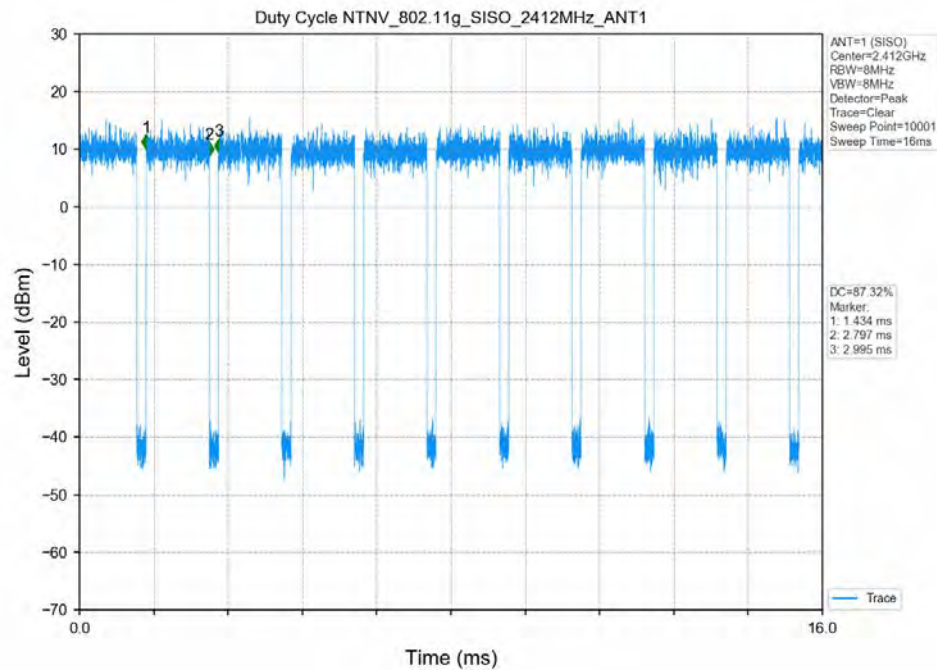
1.1 Test Result

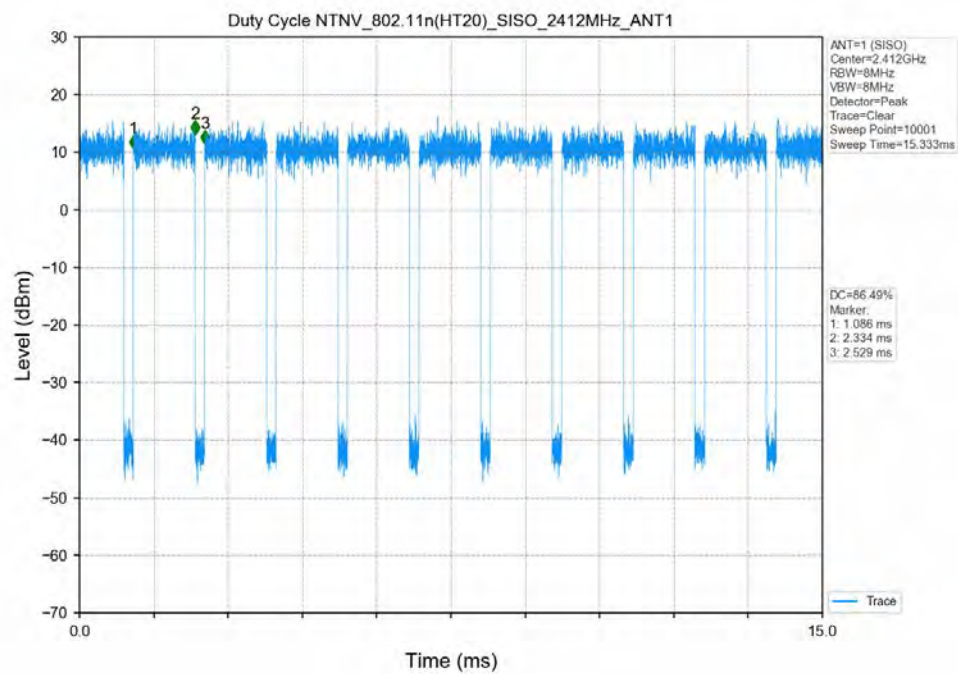
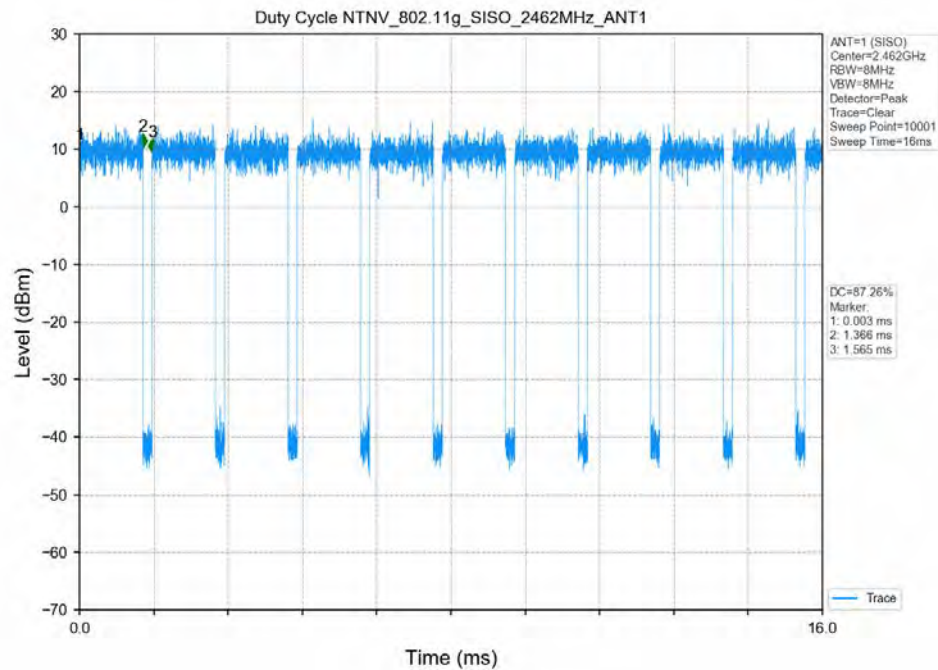
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	8.220	8.420	97.62	0.10
	2437	SISO	1	8.220	8.420	97.62	0.10
	2462	SISO	1	8.220	8.420	97.62	0.10
802.11g	2412	SISO	1	1.363	1.561	87.32	0.59
	2437	SISO	1	1.363	1.562	87.26	0.59
	2462	SISO	1	1.363	1.562	87.26	0.59
802.11n(HT20)	2412	SISO	1	1.248	1.443	86.49	0.63
	2437	SISO	1	1.248	1.442	86.55	0.63
	2462	SISO	1	1.248	1.442	86.55	0.63
802.11n(HT40)	2422	SISO	1	0.635	0.835	76.05	1.19
	2437	SISO	1	0.636	0.835	76.17	1.18
	2452	SISO	1	0.636	0.836	76.08	1.19

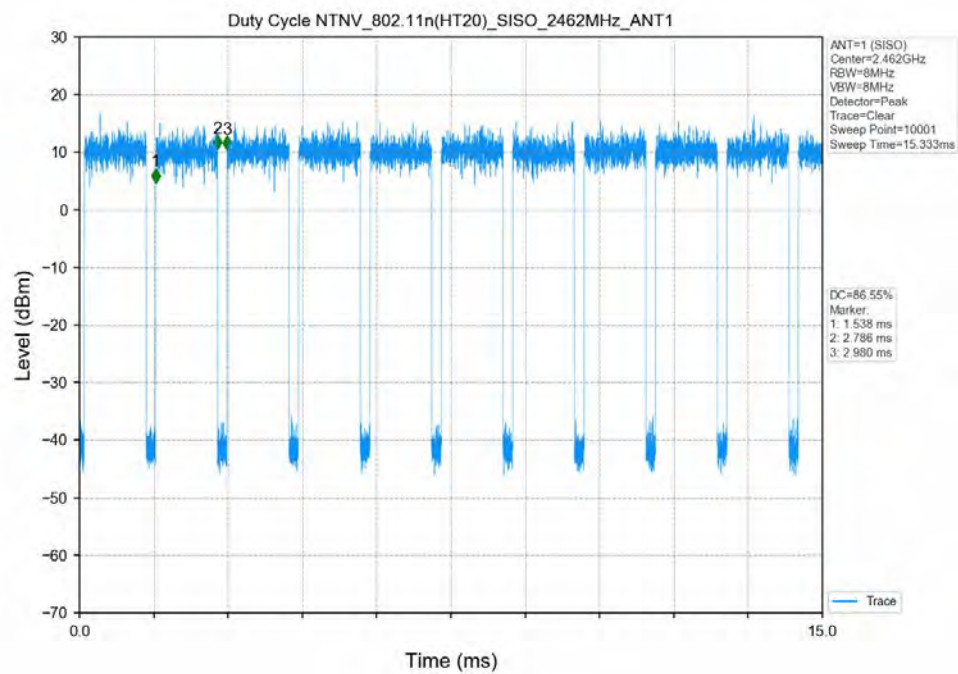
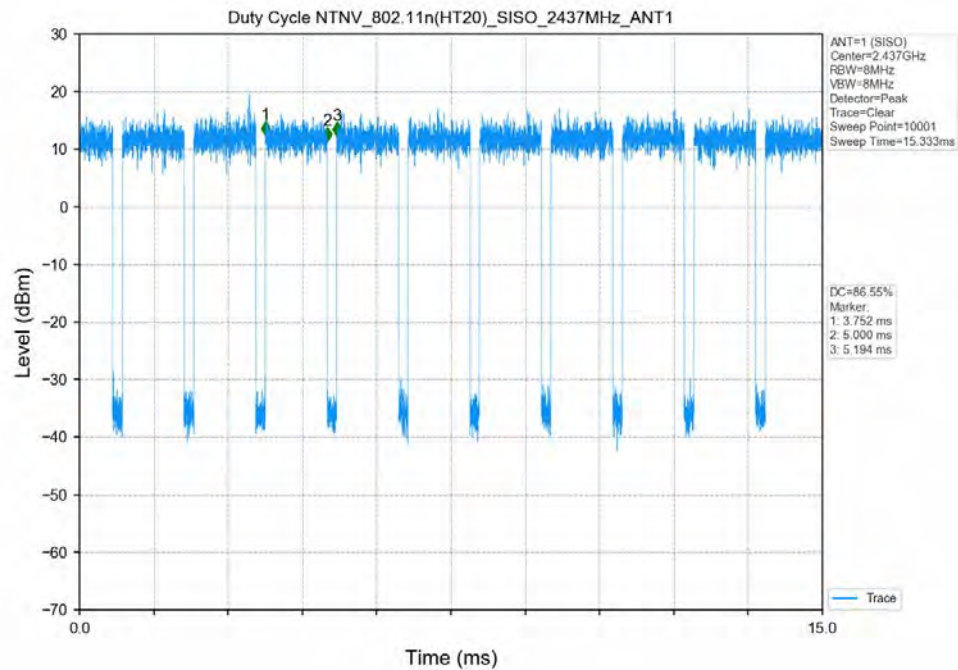
1.2 Test Graph

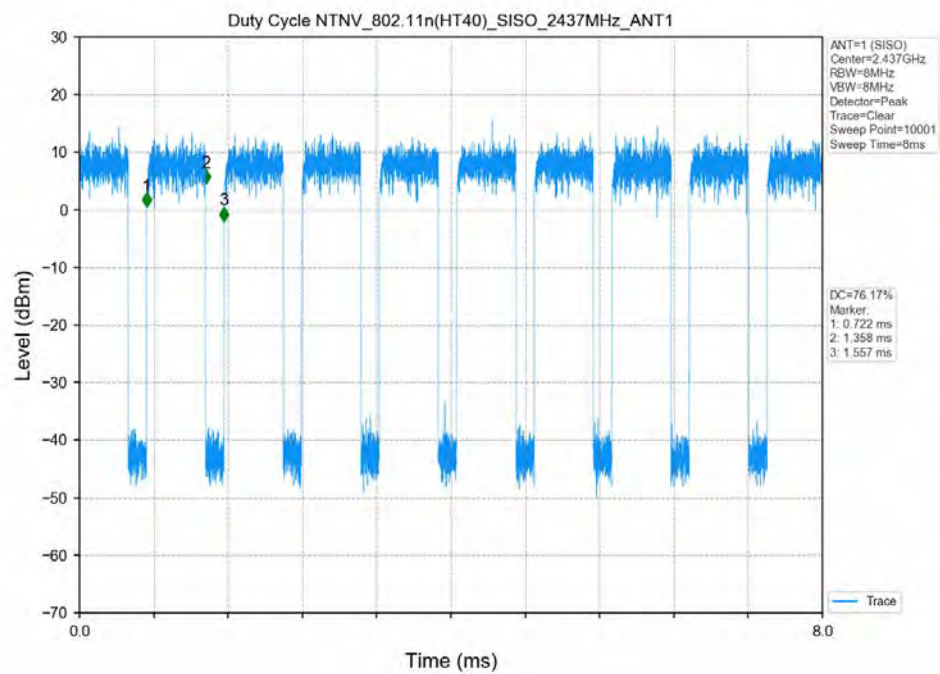
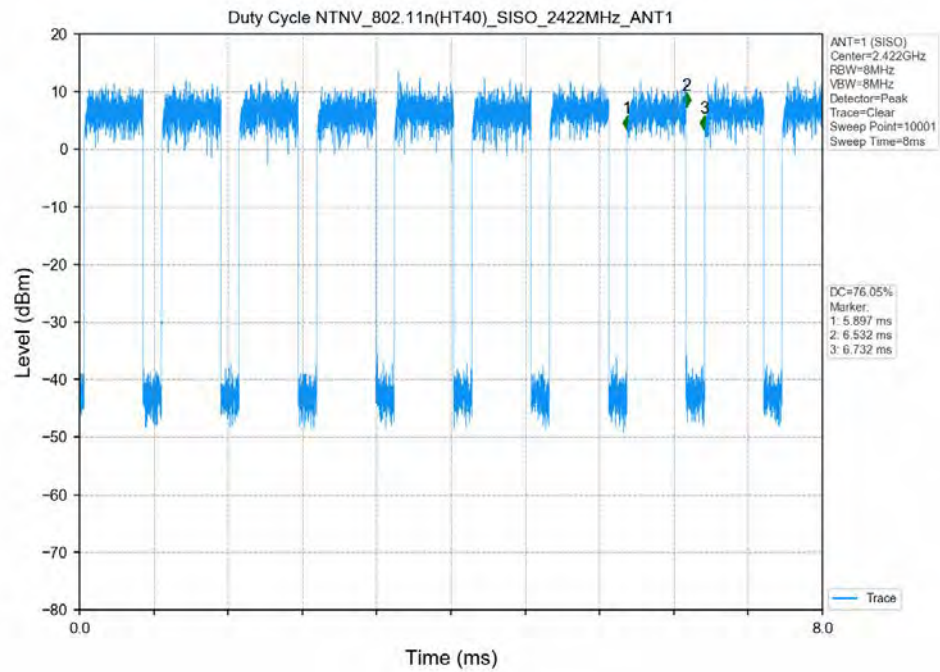


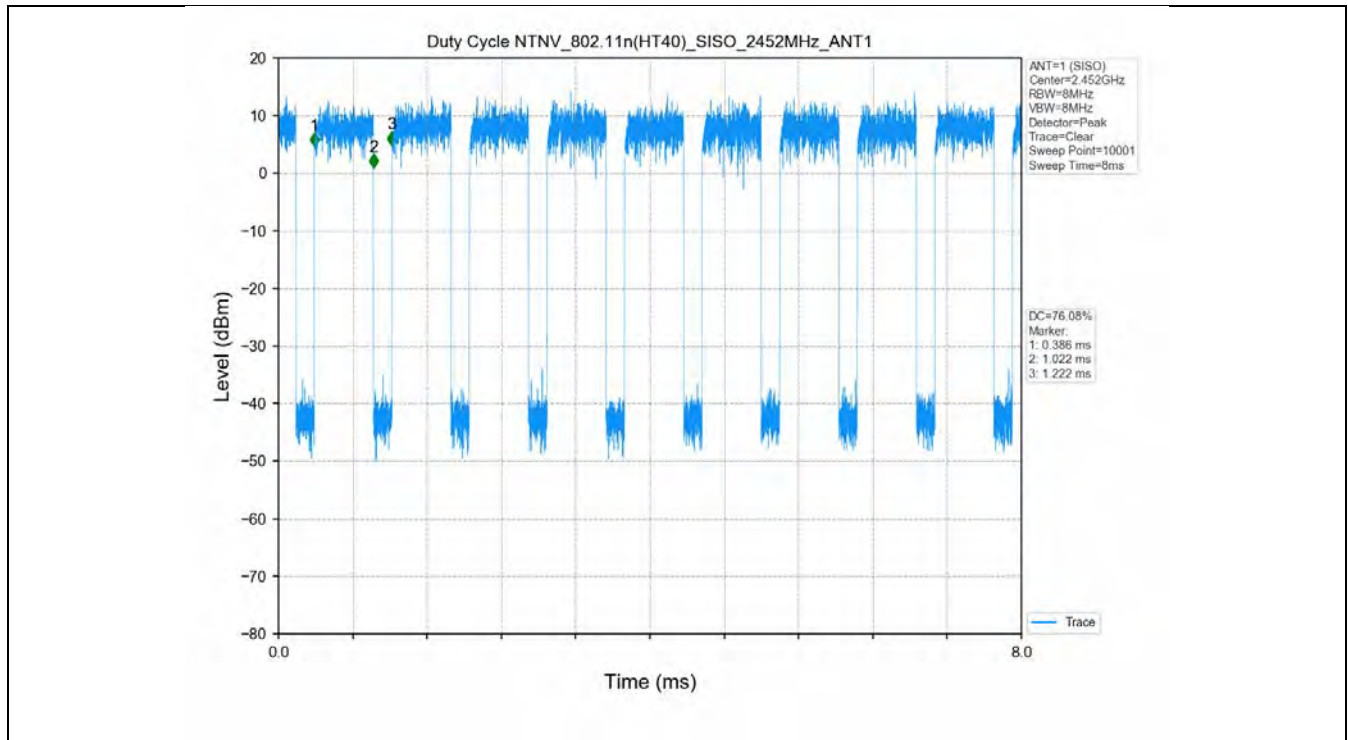












2. Bandwidth

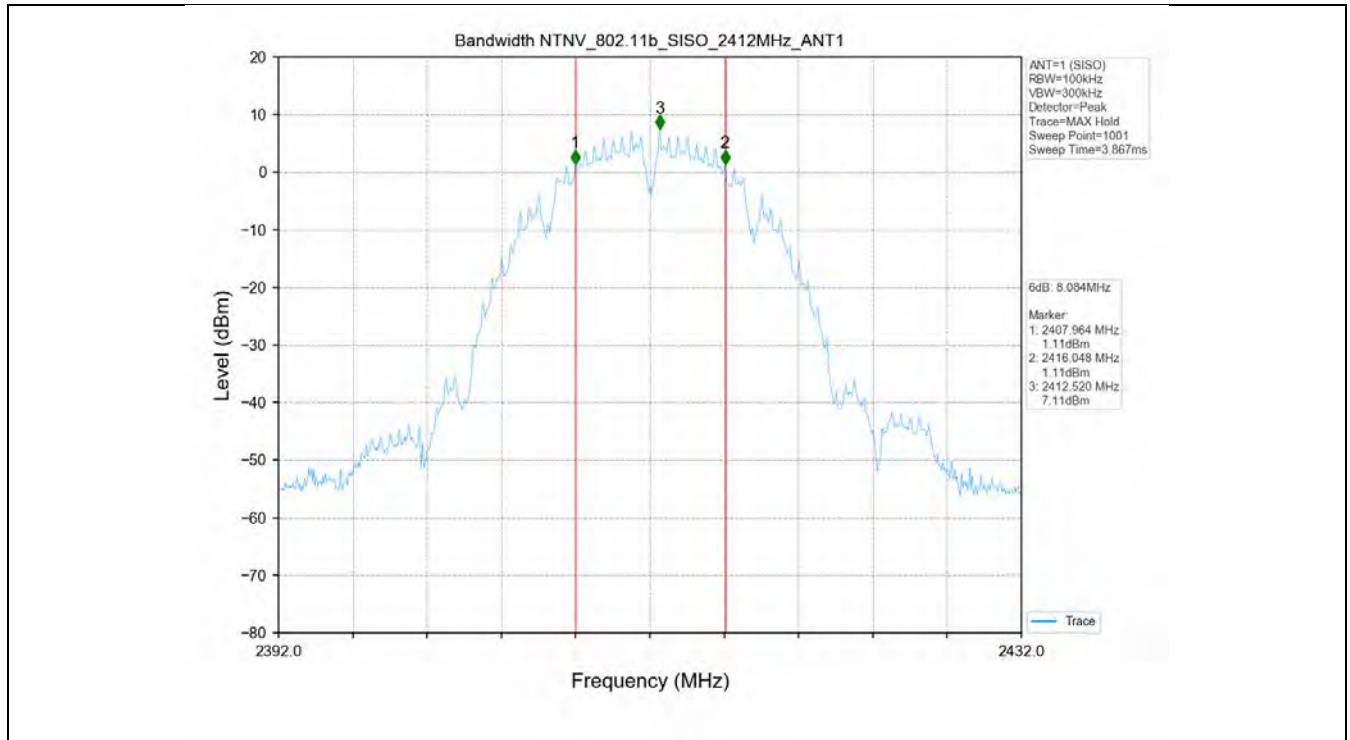
2.1 Test Result

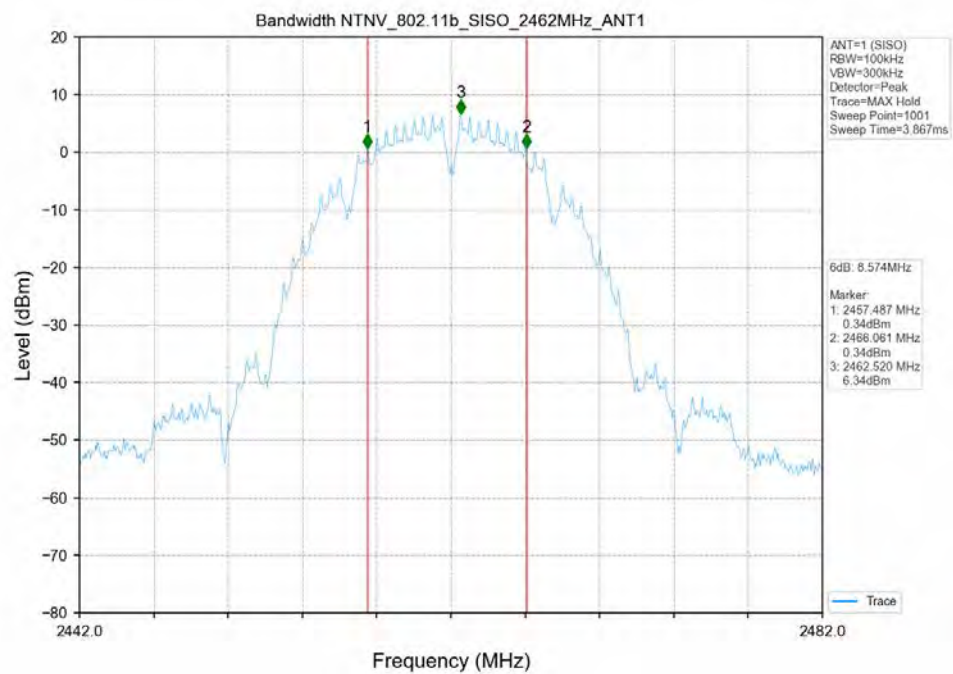
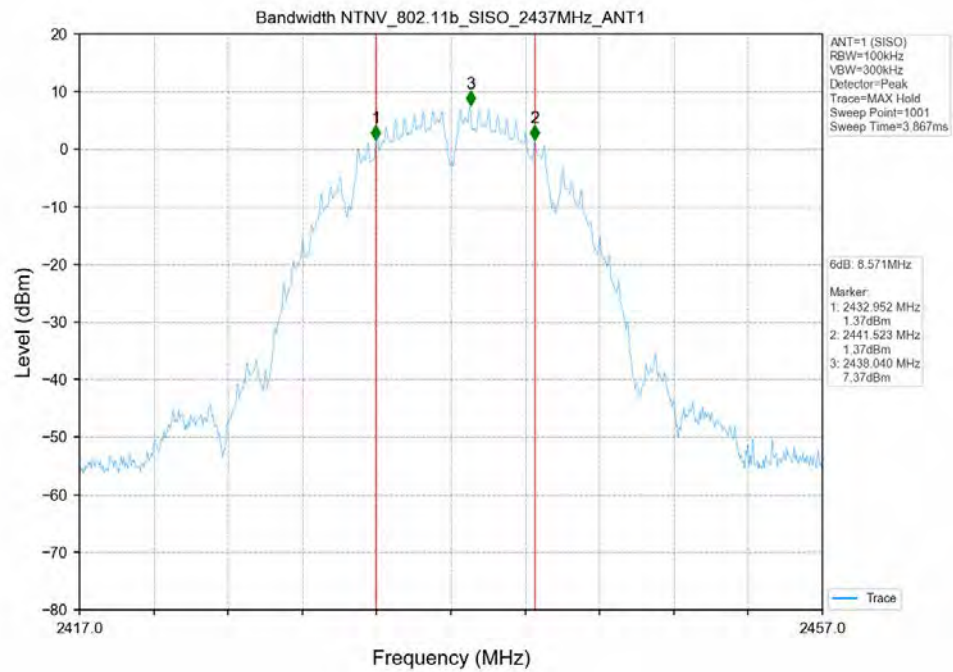
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	8.084	≥ 0.5	PASS
	2437	SISO	1	8.571	≥ 0.5	PASS
	2462	SISO	1	8.574	≥ 0.5	PASS
802.11g	2412	SISO	1	16.420	≥ 0.5	PASS
	2437	SISO	1	16.404	≥ 0.5	PASS
	2462	SISO	1	16.392	≥ 0.5	PASS
802.11n(HT20)	2412	SISO	1	17.610	≥ 0.5	PASS
	2437	SISO	1	17.607	≥ 0.5	PASS
	2462	SISO	1	17.325	≥ 0.5	PASS
802.11n(HT40)	2422	SISO	1	35.356	≥ 0.5	PASS
	2437	SISO	1	35.172	≥ 0.5	PASS
	2452	SISO	1	35.207	≥ 0.5	PASS

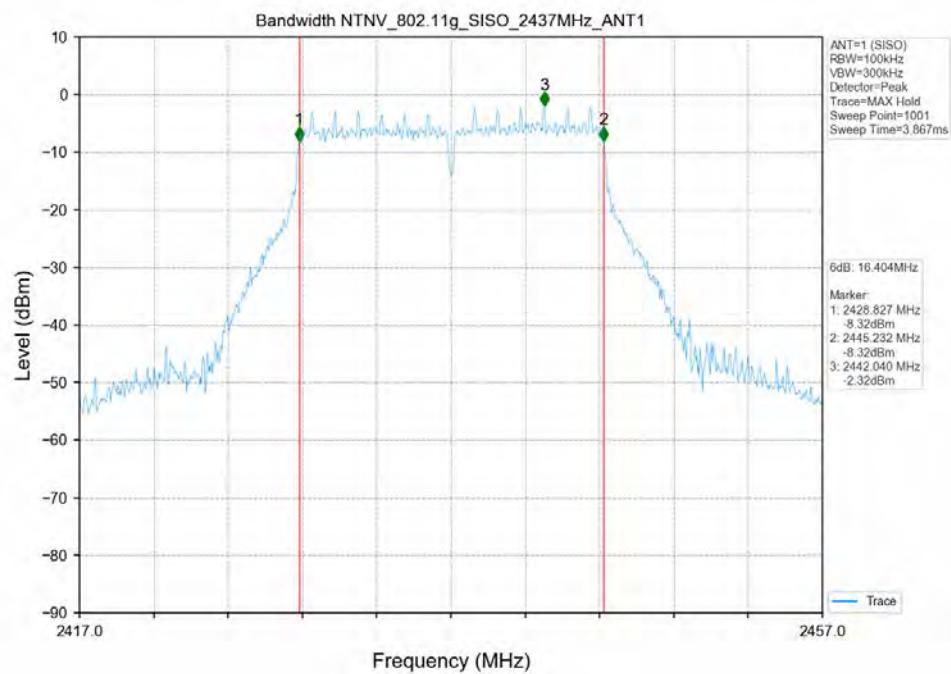
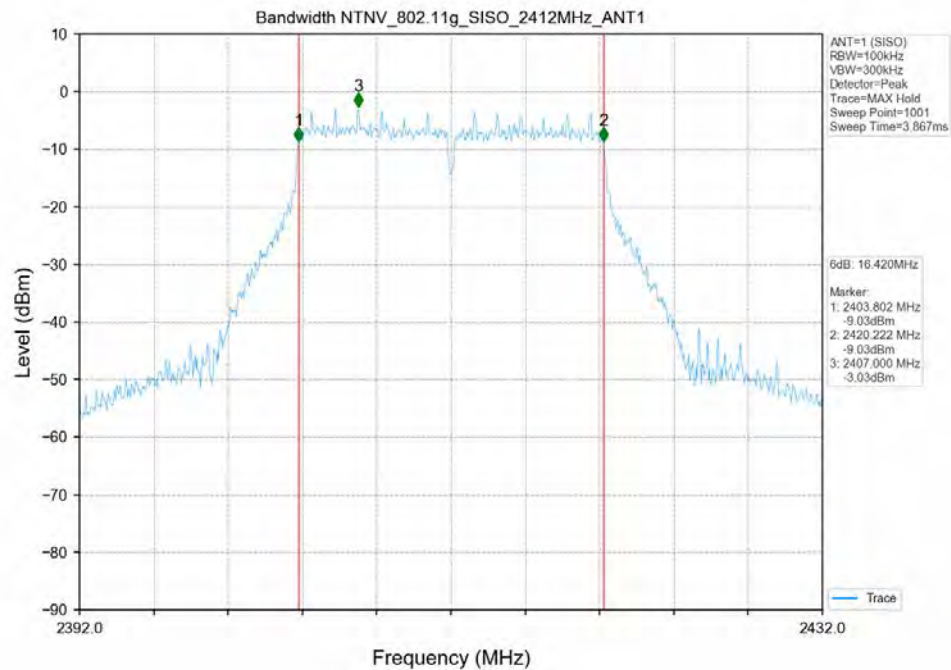
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	13.304	Only for Report Use
	2437	SISO	1	13.178	Only for Report Use
	2462	SISO	1	13.337	Only for Report Use
802.11g	2412	SISO	1	17.043	Only for Report Use
	2437	SISO	1	17.003	Only for Report Use
	2462	SISO	1	17.083	Only for Report Use
802.11n(HT20)	2412	SISO	1	18.019	Only for Report Use
	2437	SISO	1	18.043	Only for Report Use
	2462	SISO	1	18.043	Only for Report Use

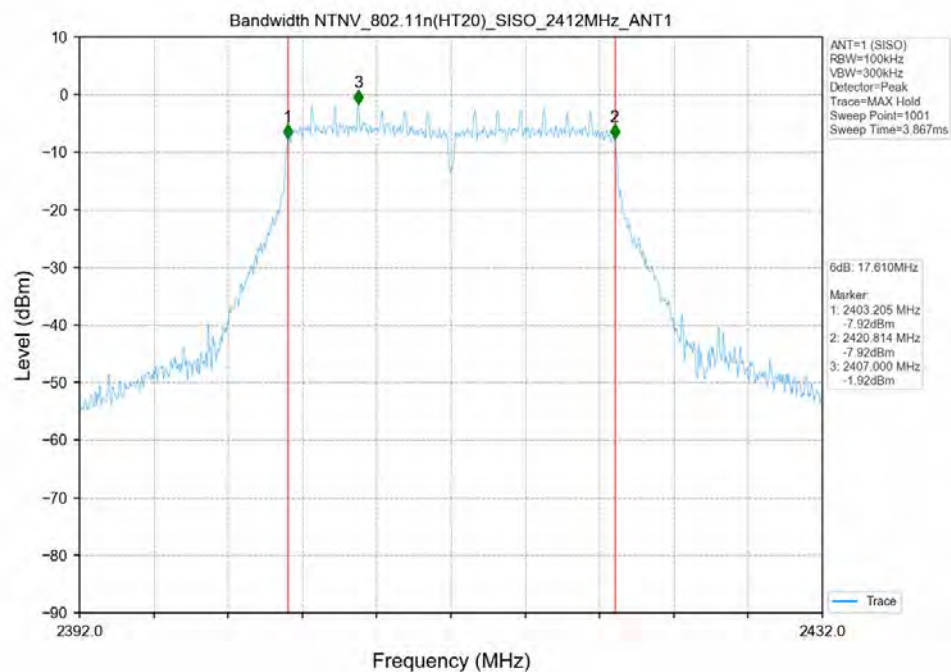
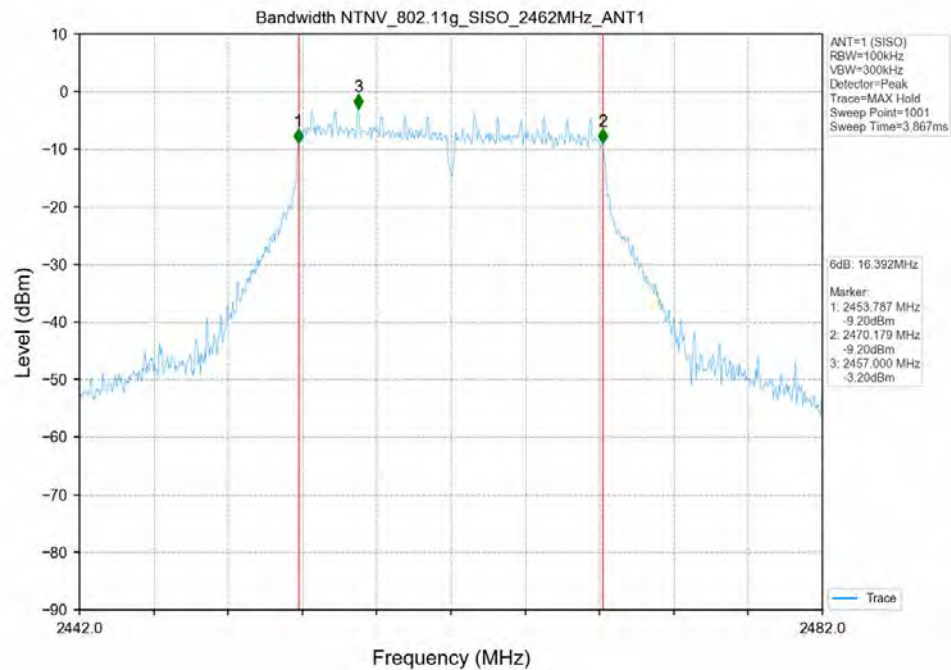
802.11n(HT40)	2422	SISO	1	36.722	Only for Report Use
	2437	SISO	1	36.494	Only for Report Use
	2452	SISO	1	36.390	Only for Report Use

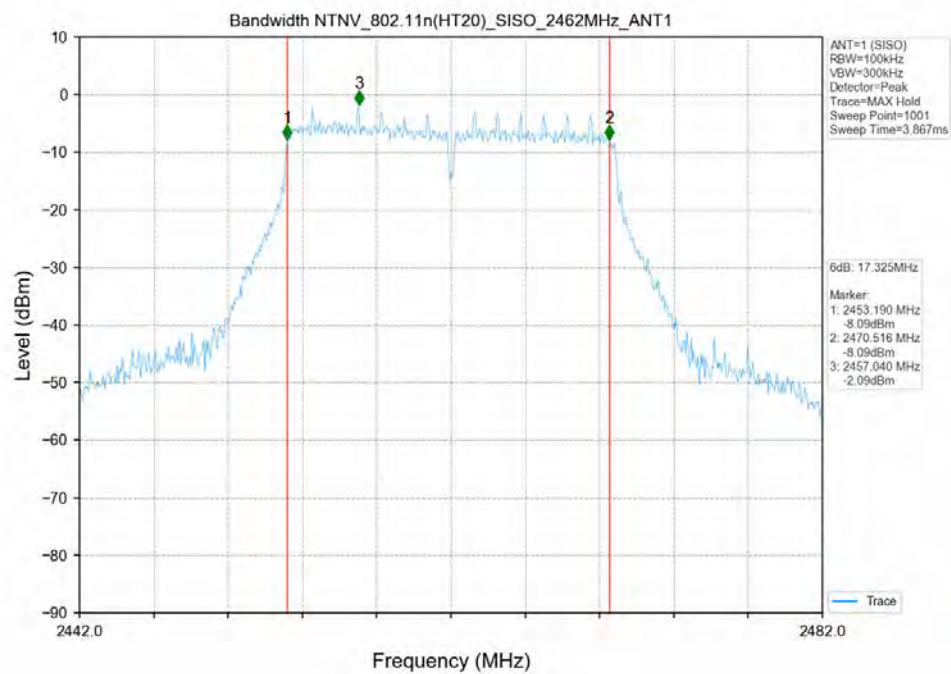
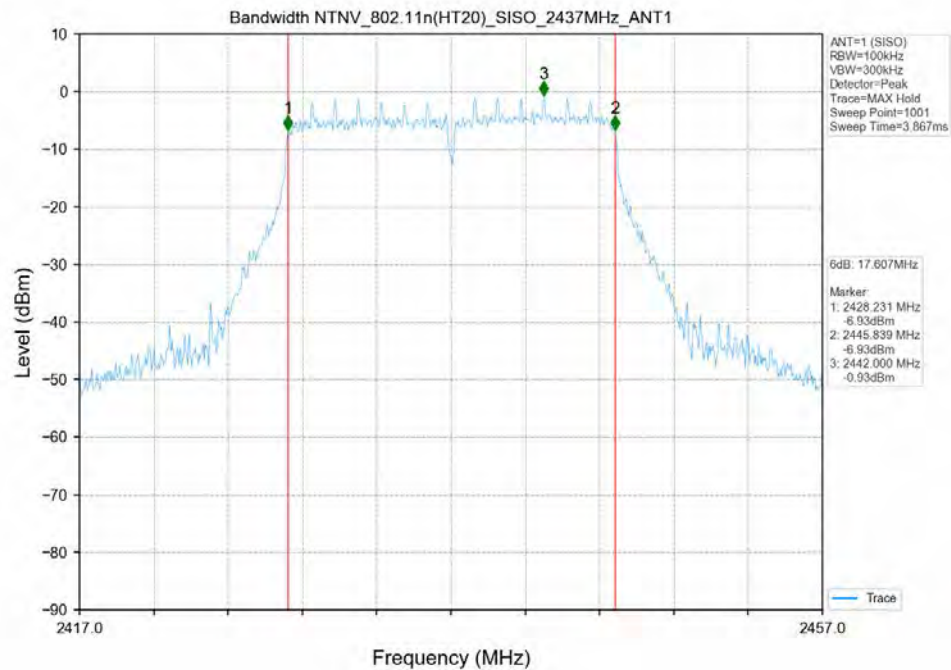
2.2 Test Graph - 6dB Bandwidth

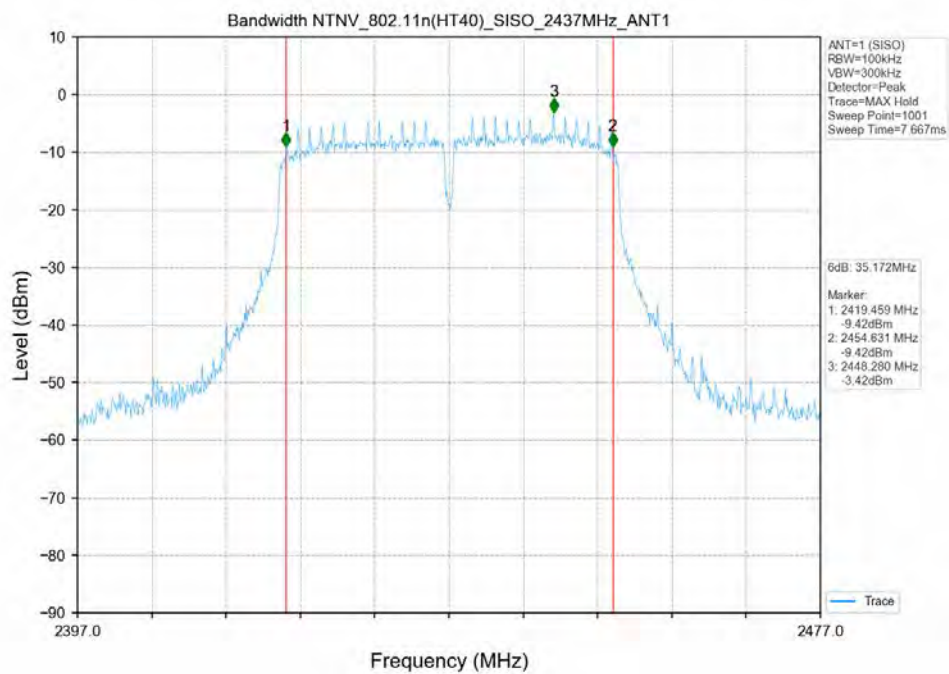
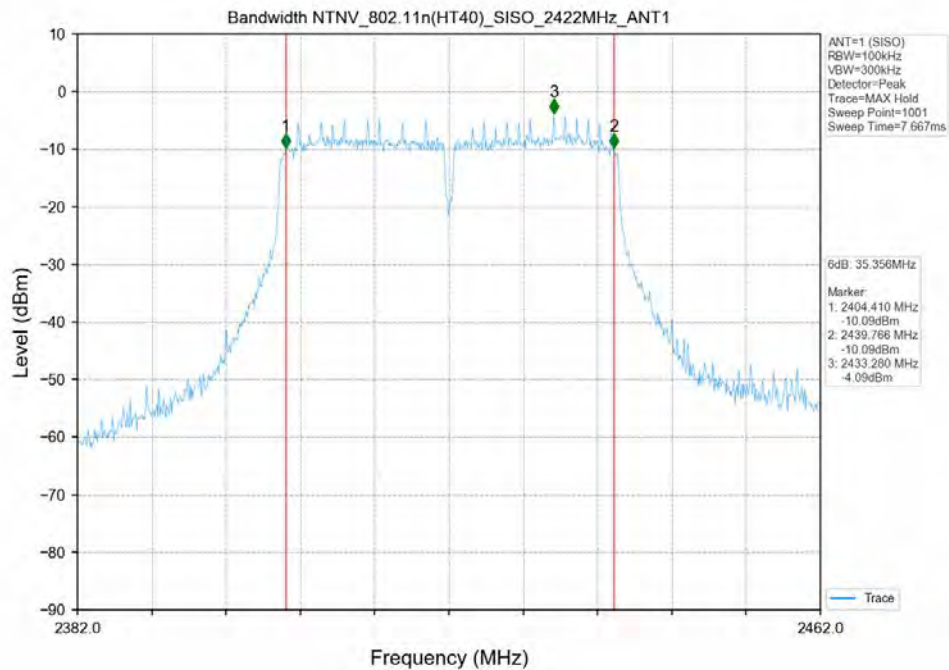


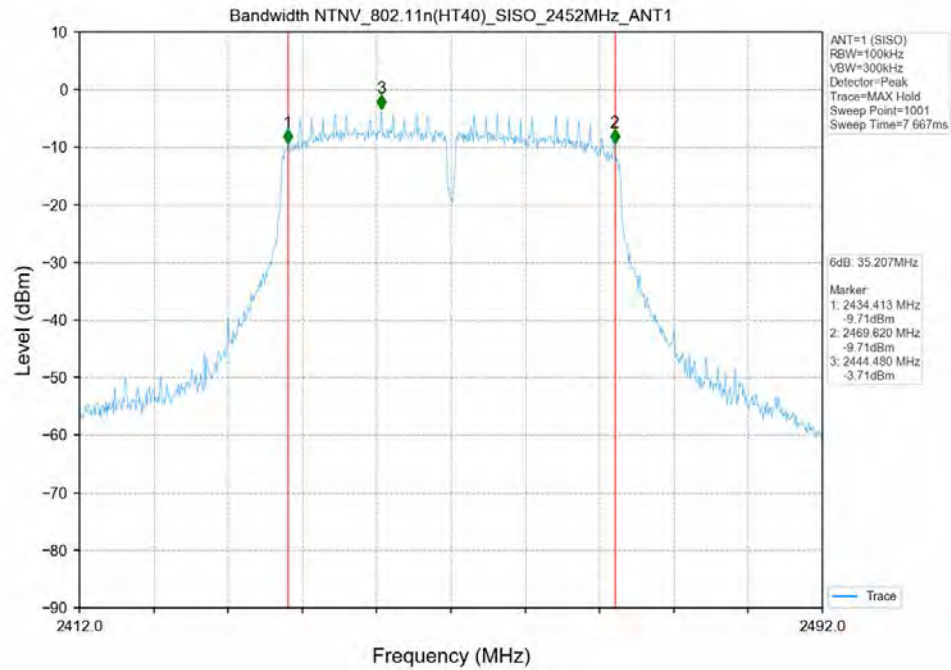




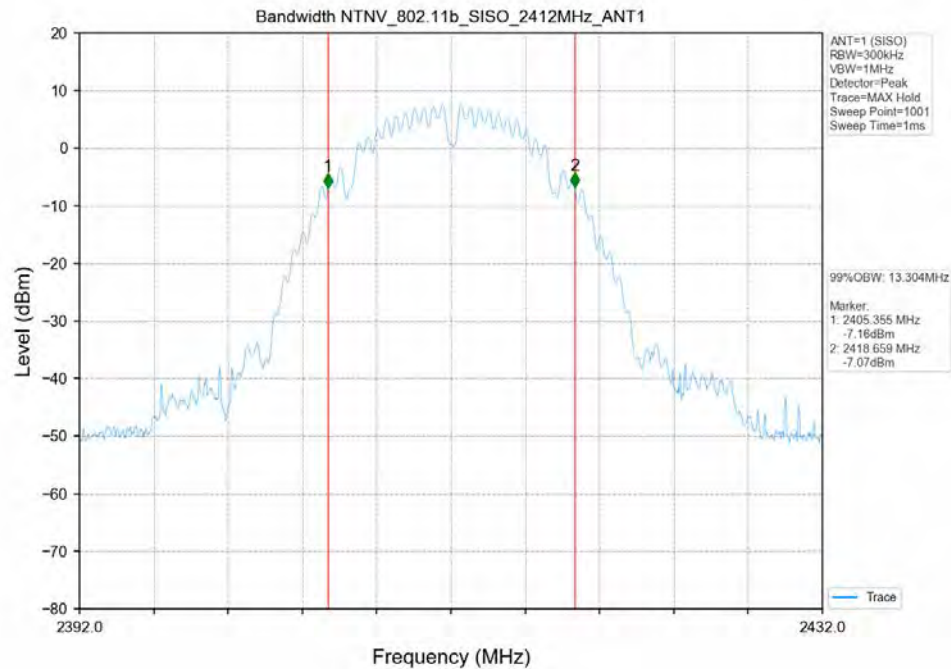


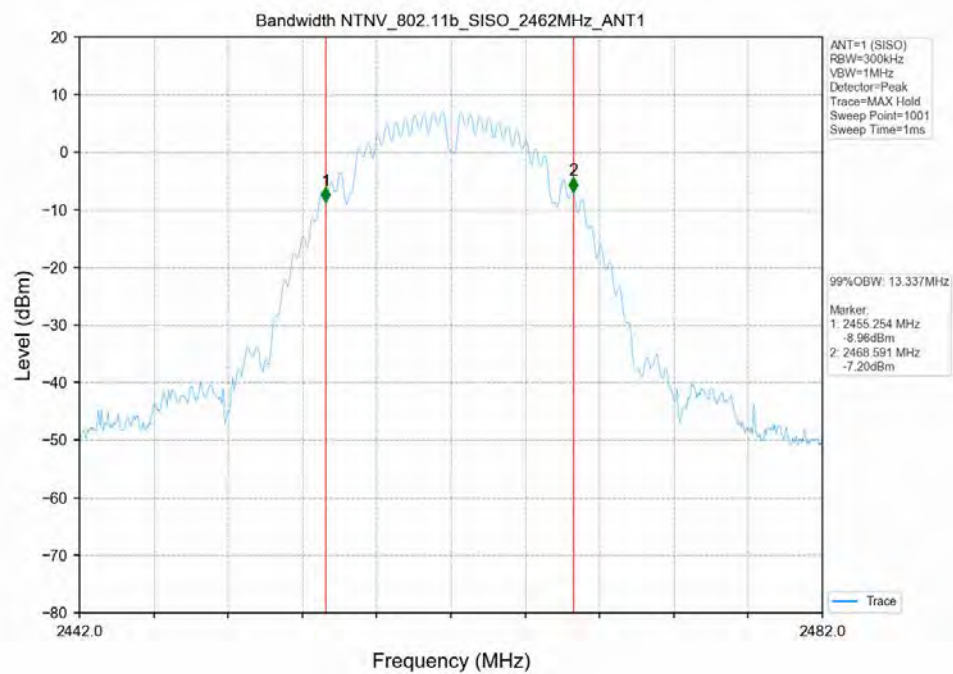
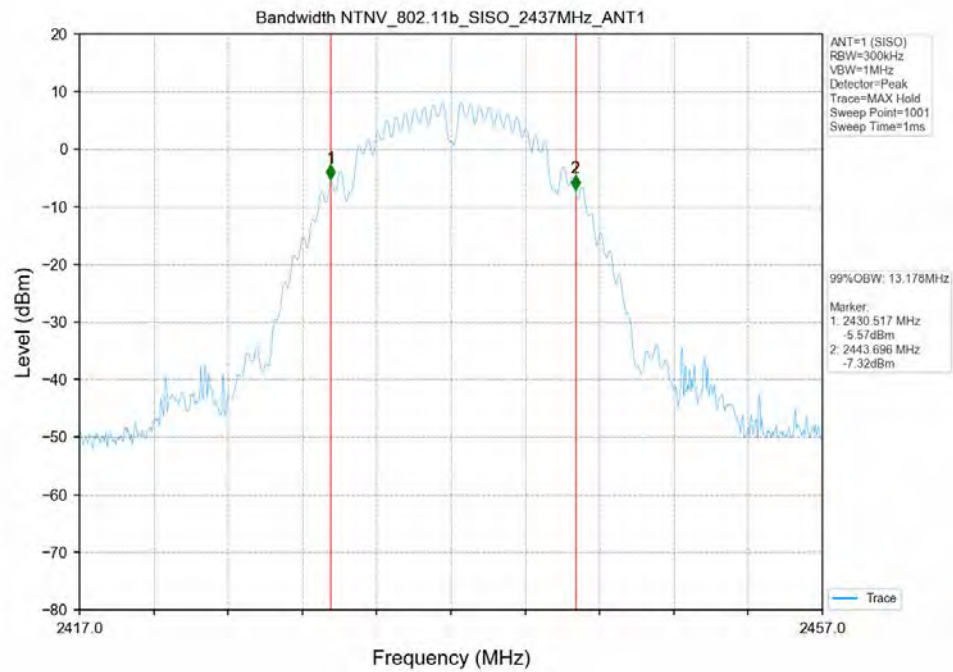


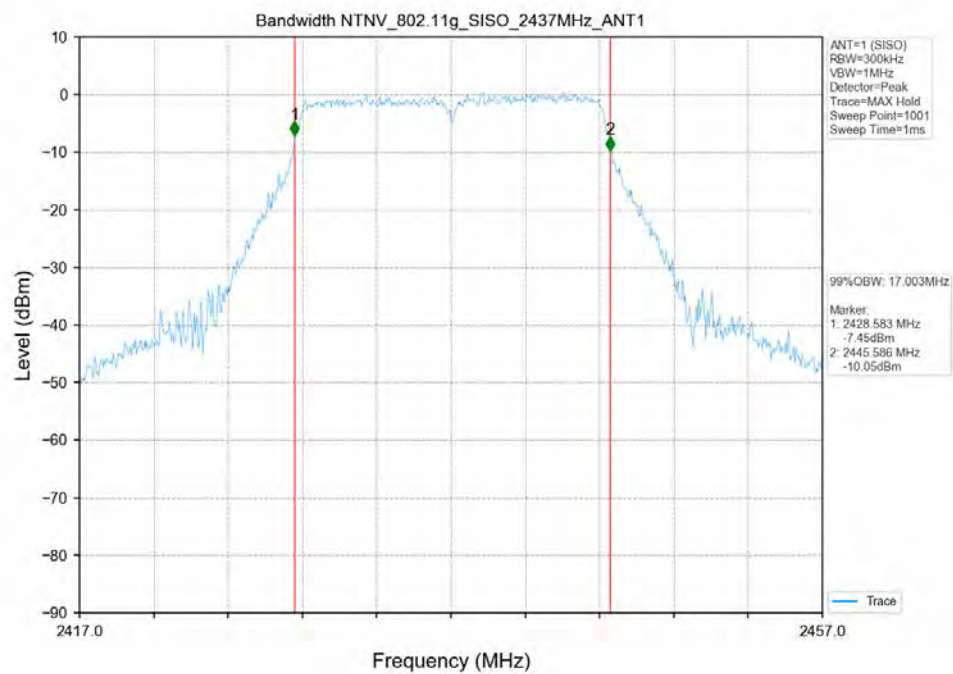
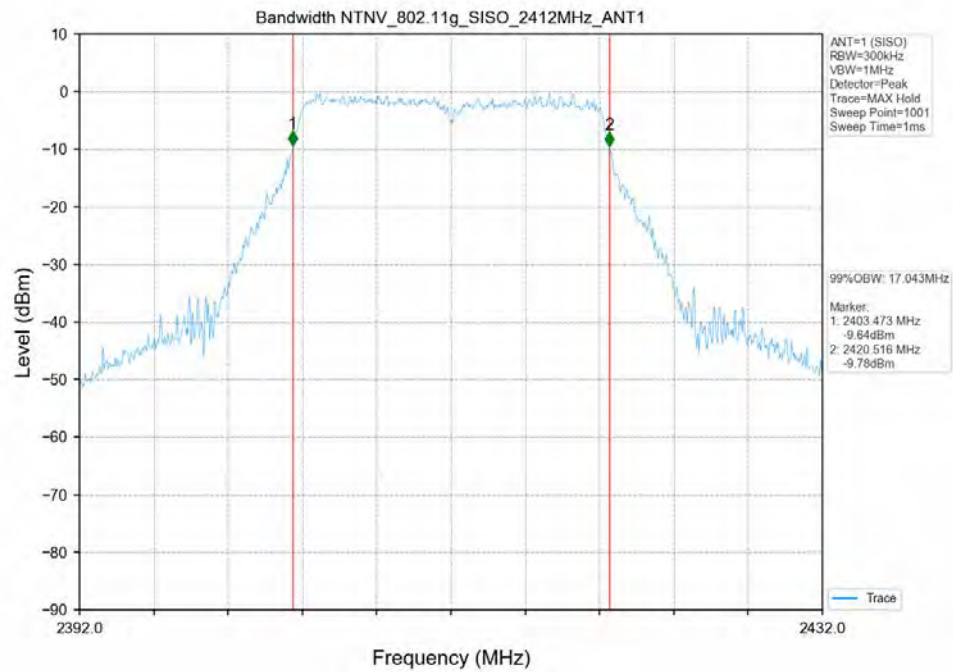


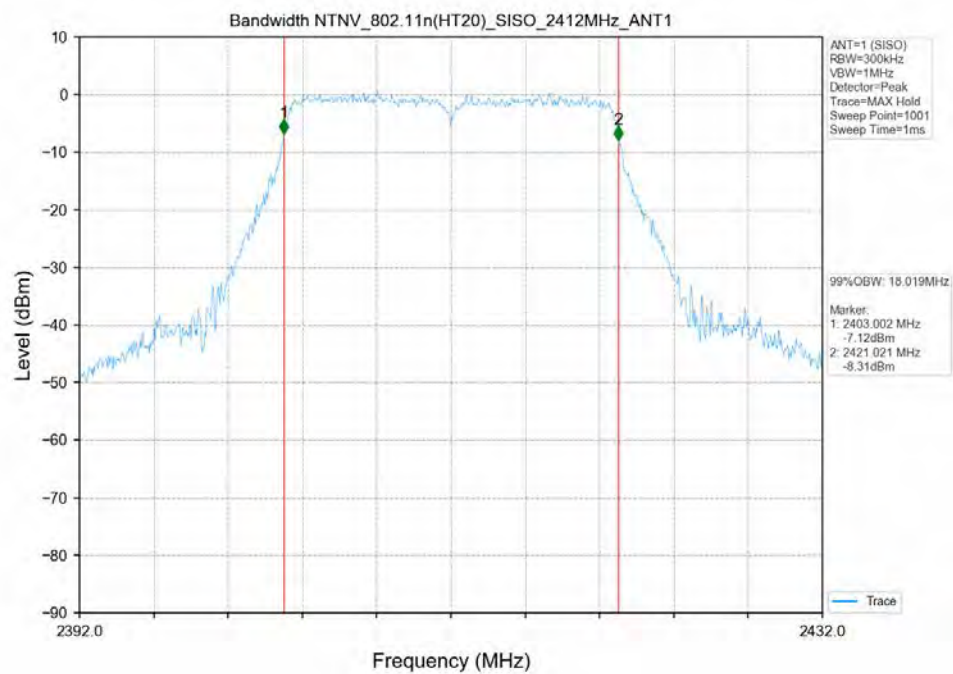
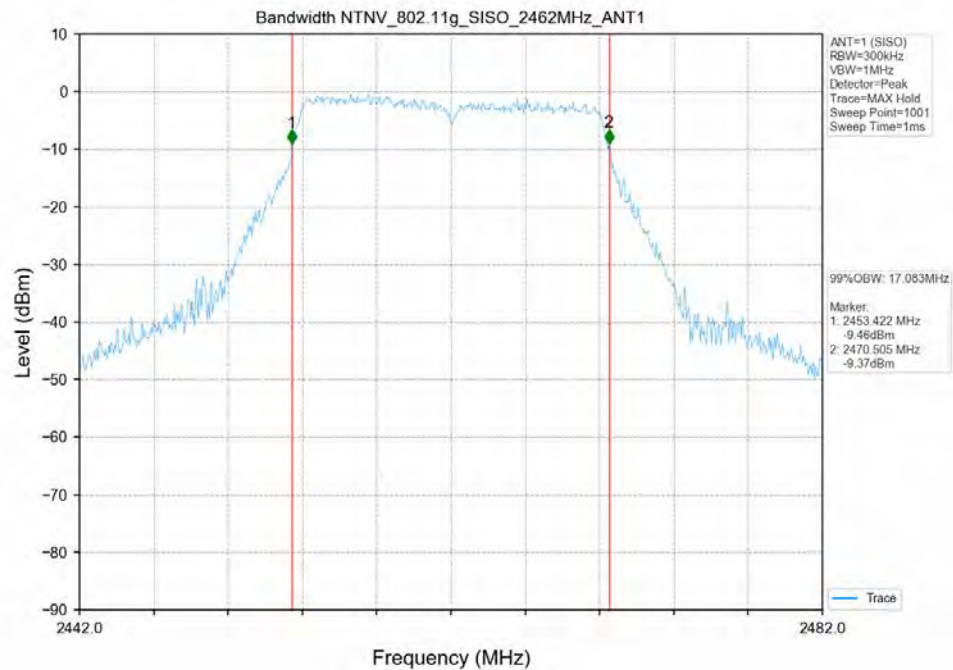


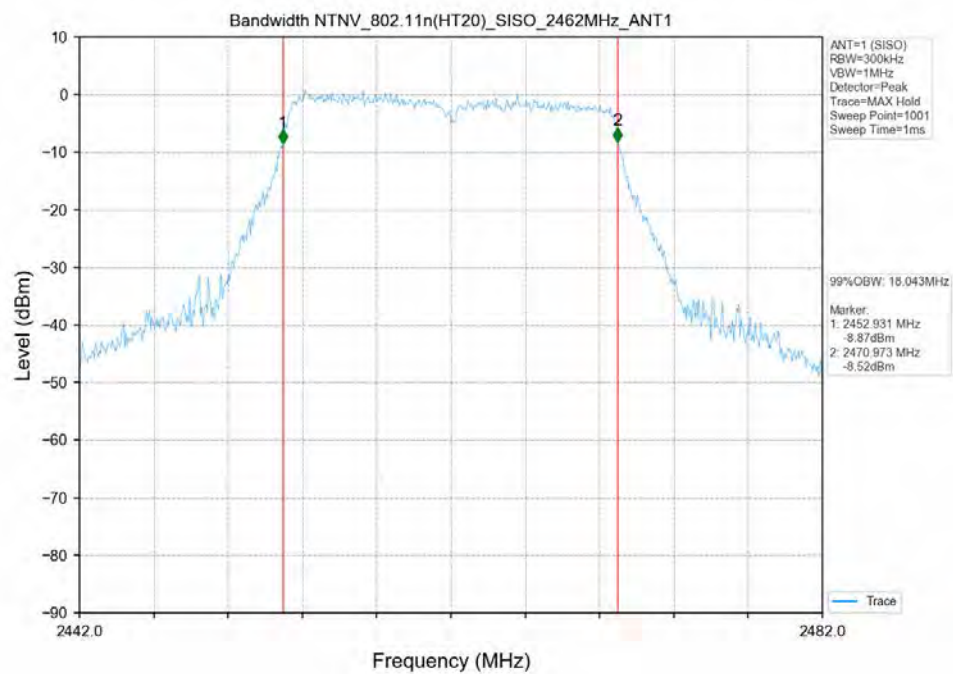
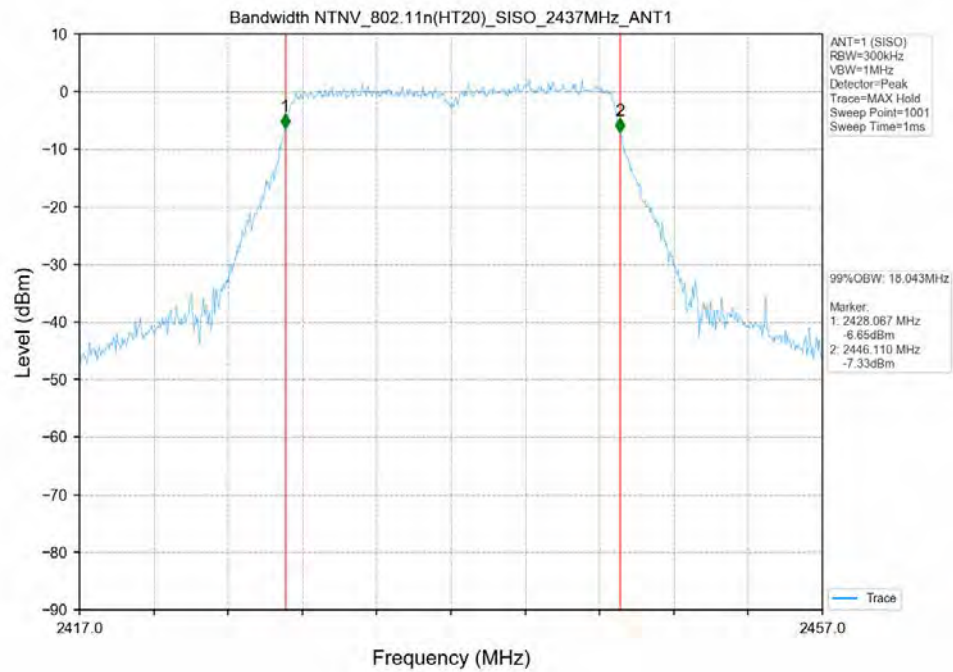
2.3 Test Graph - 99% Occupied Bandwidth

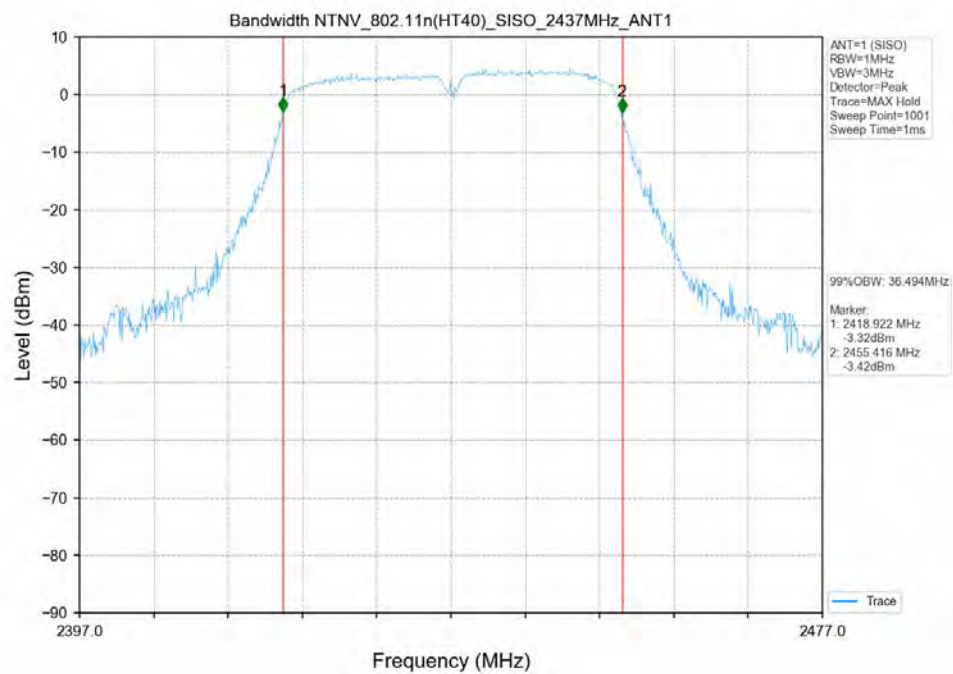
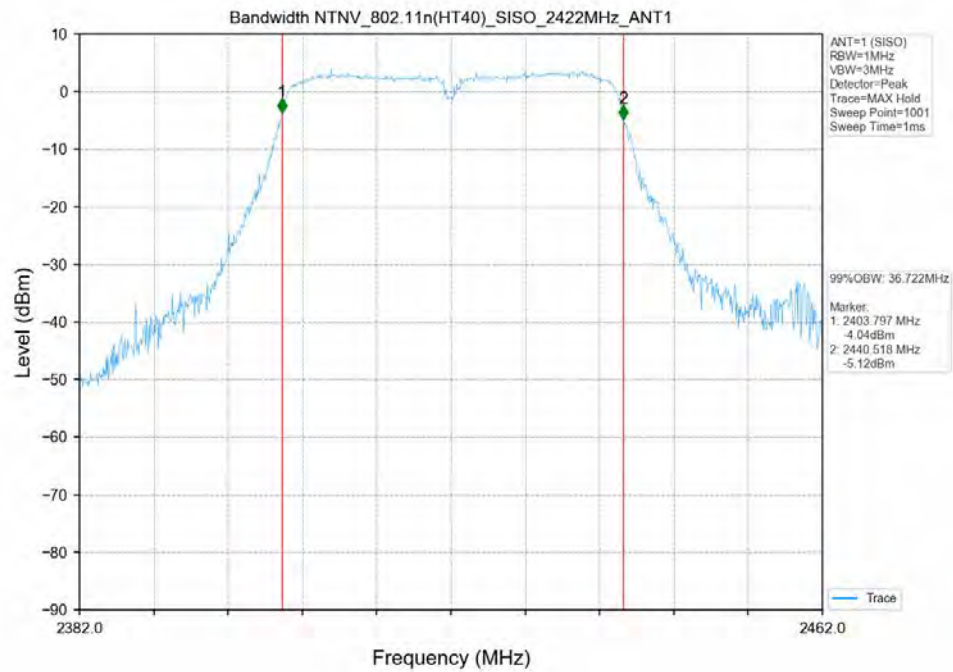


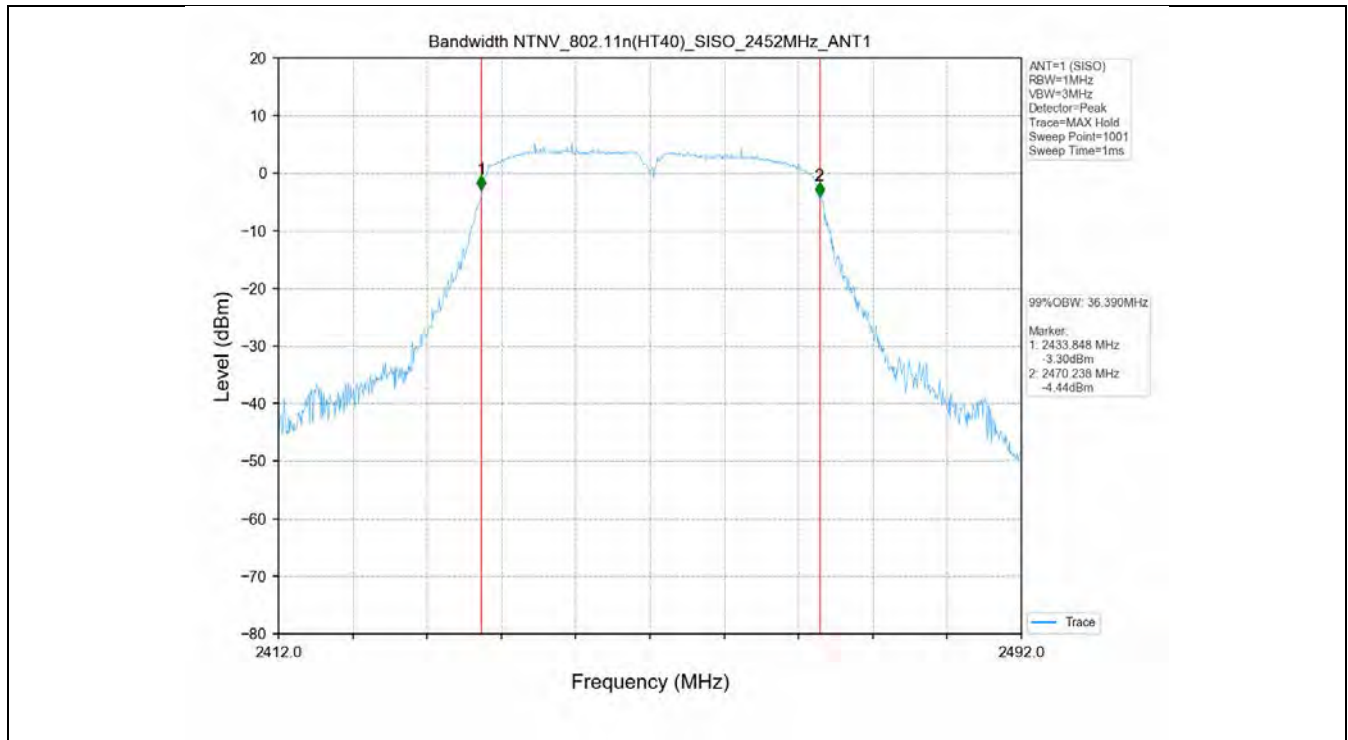










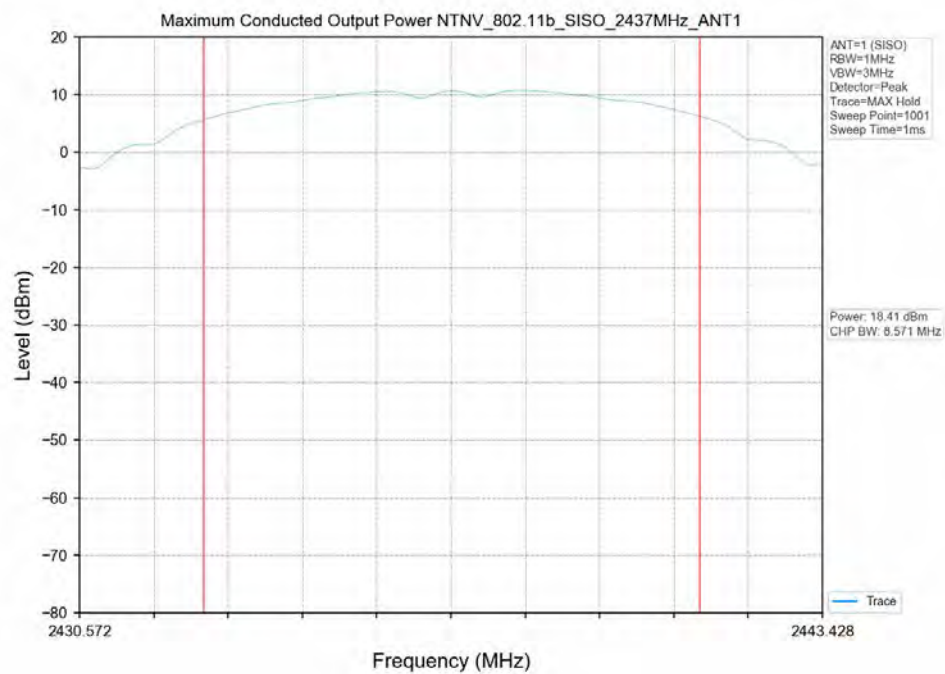
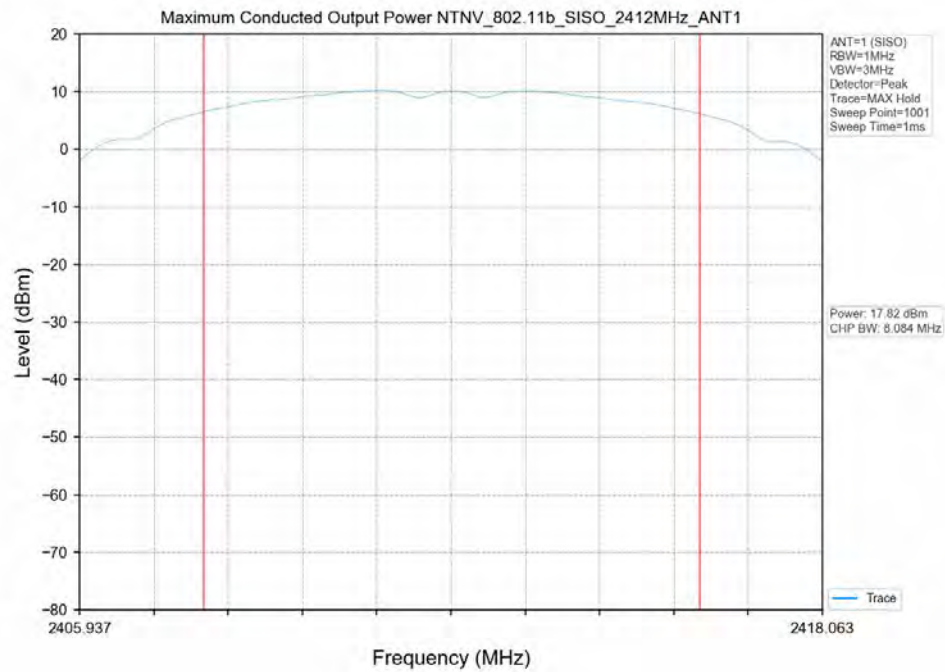


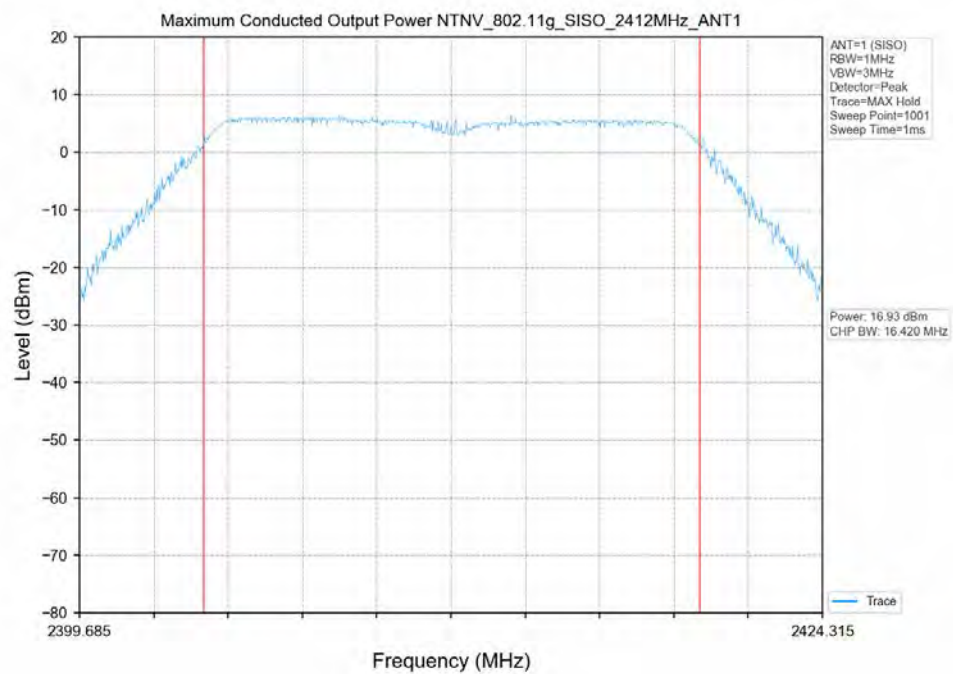
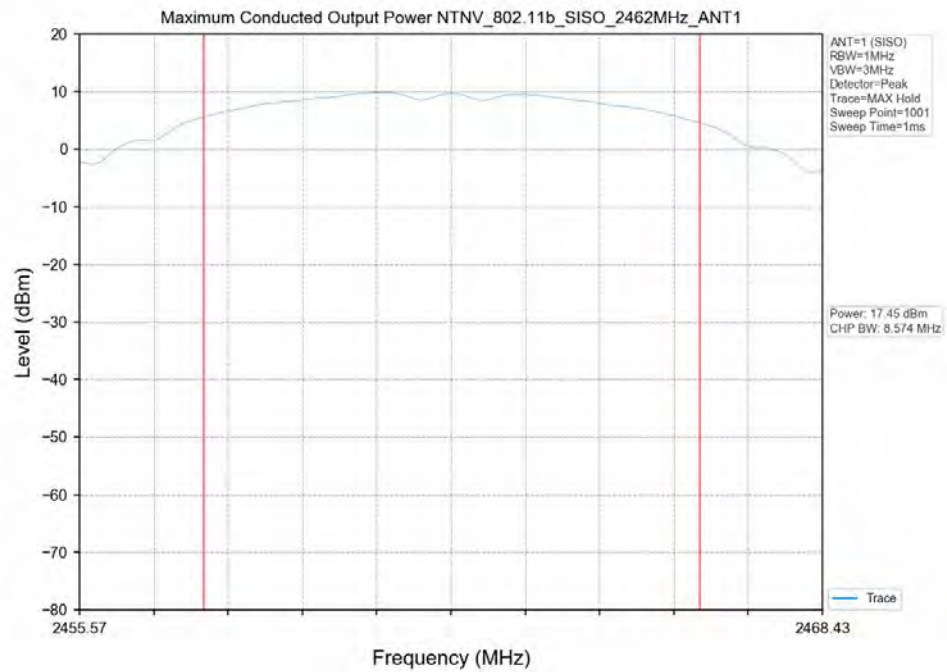
3. Maximum Conducted Output Power

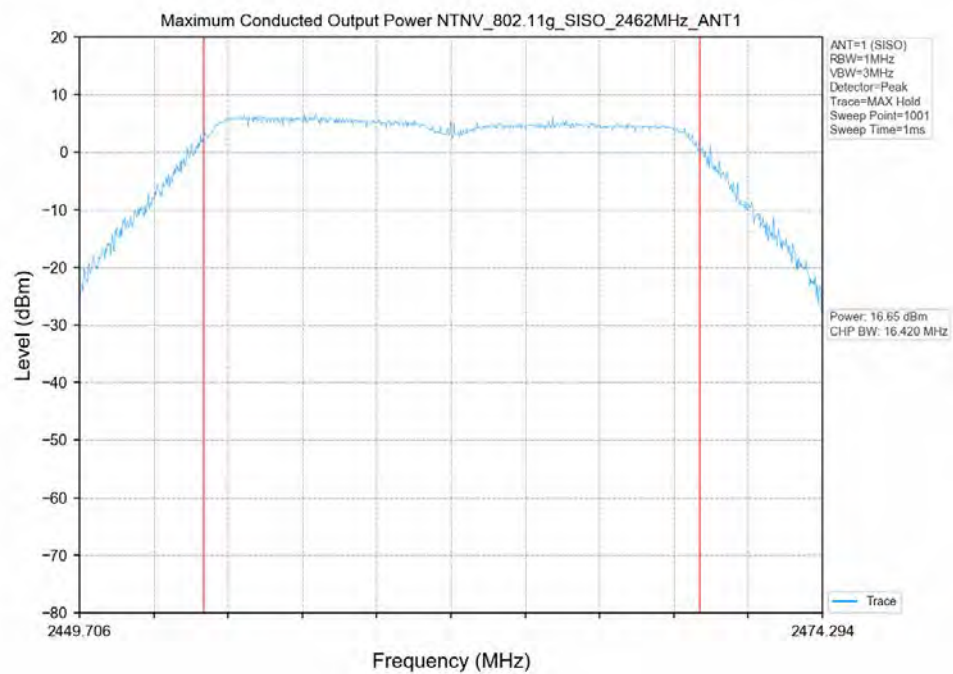
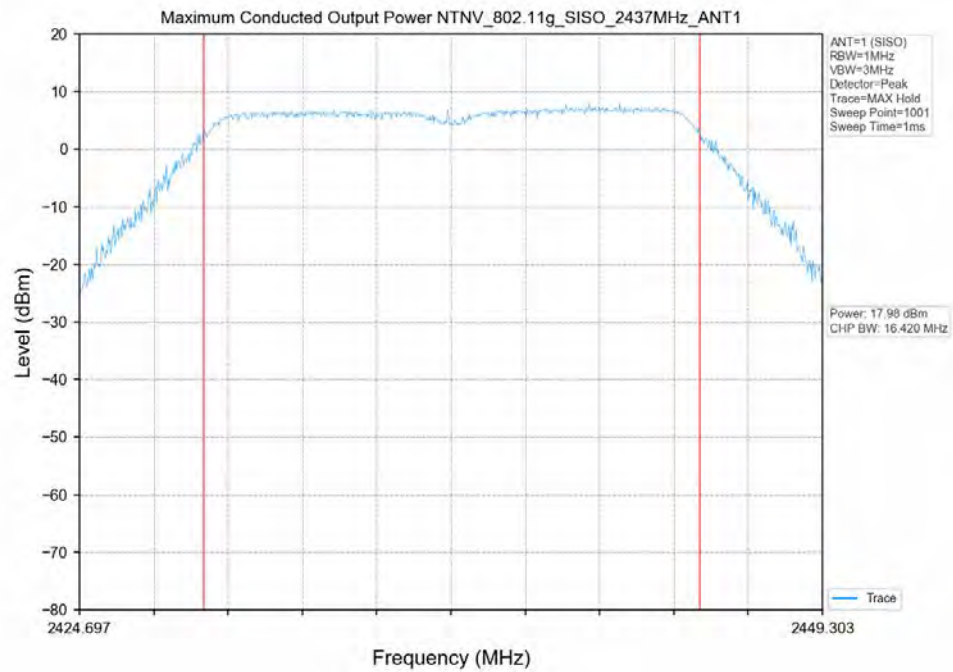
3.1 Test Result

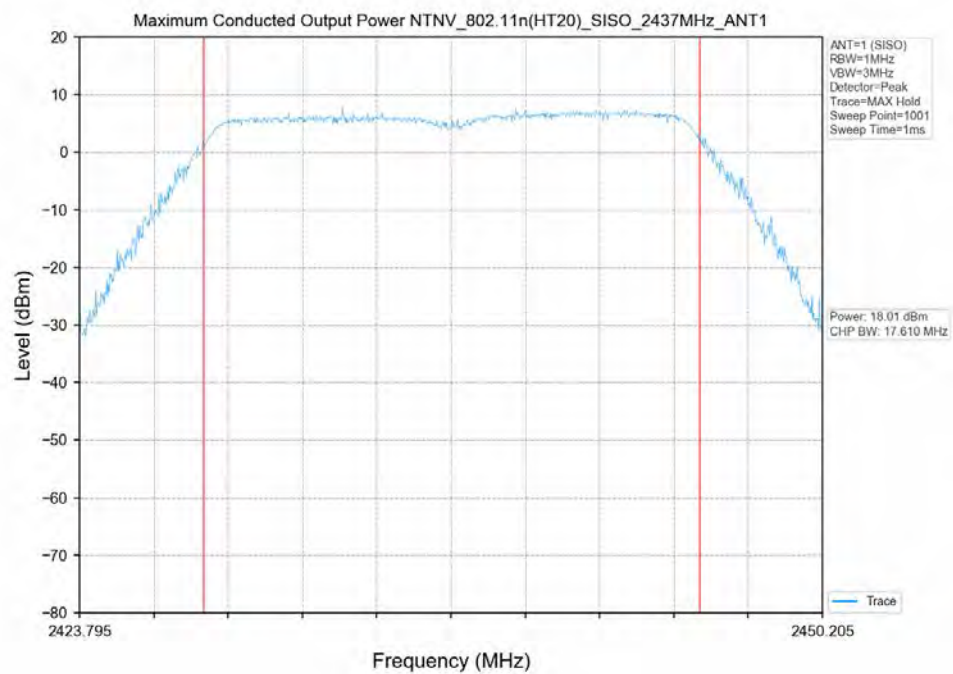
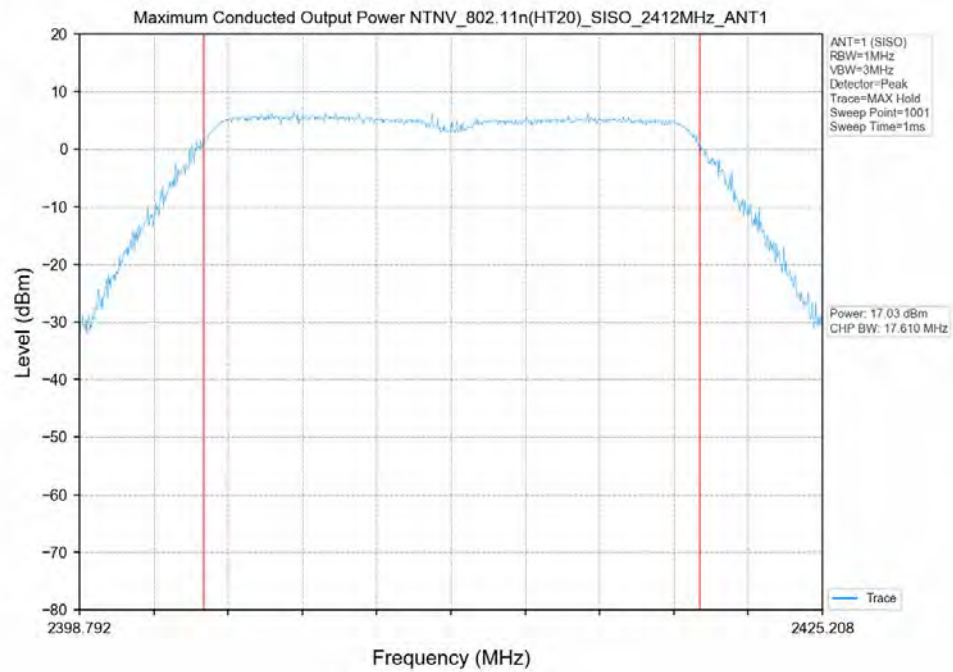
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	17.82	30	PASS
	2437	SISO	18.41	30	PASS
	2462	SISO	17.45	30	PASS
802.11g	2412	SISO	16.93	30	PASS
	2437	SISO	17.98	30	PASS
	2462	SISO	16.65	30	PASS
802.11n(HT20)	2412	SISO	17.03	30	PASS
	2437	SISO	18.01	30	PASS
	2462	SISO	17.73	30	PASS
802.11n(HT40)	2422	SISO	17.32	30	PASS
	2437	SISO	17.87	30	PASS
	2452	SISO	17.84	30	PASS

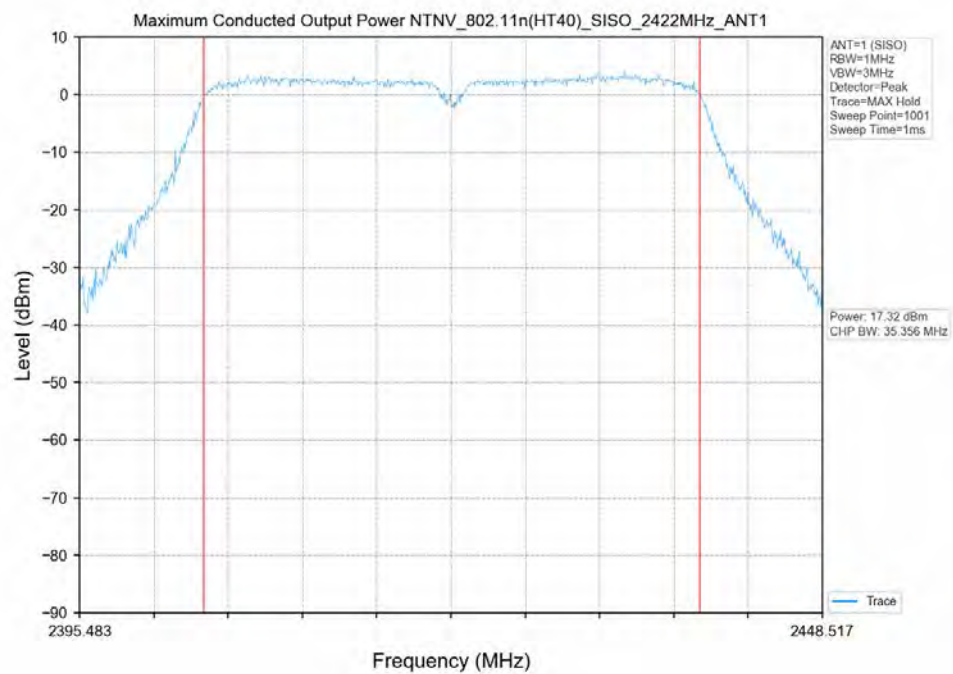
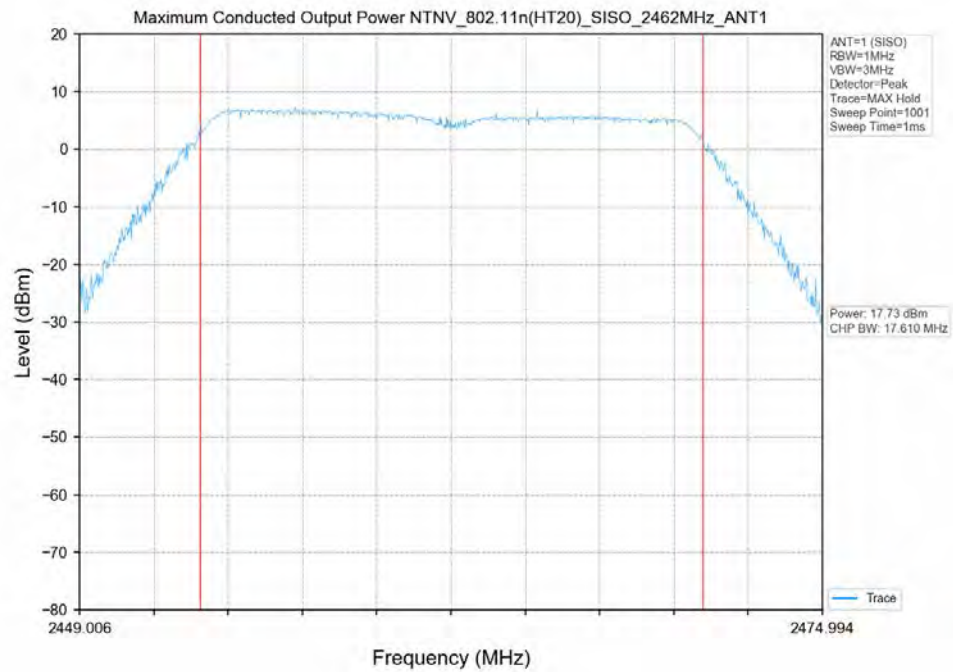
3.2 Test Graph

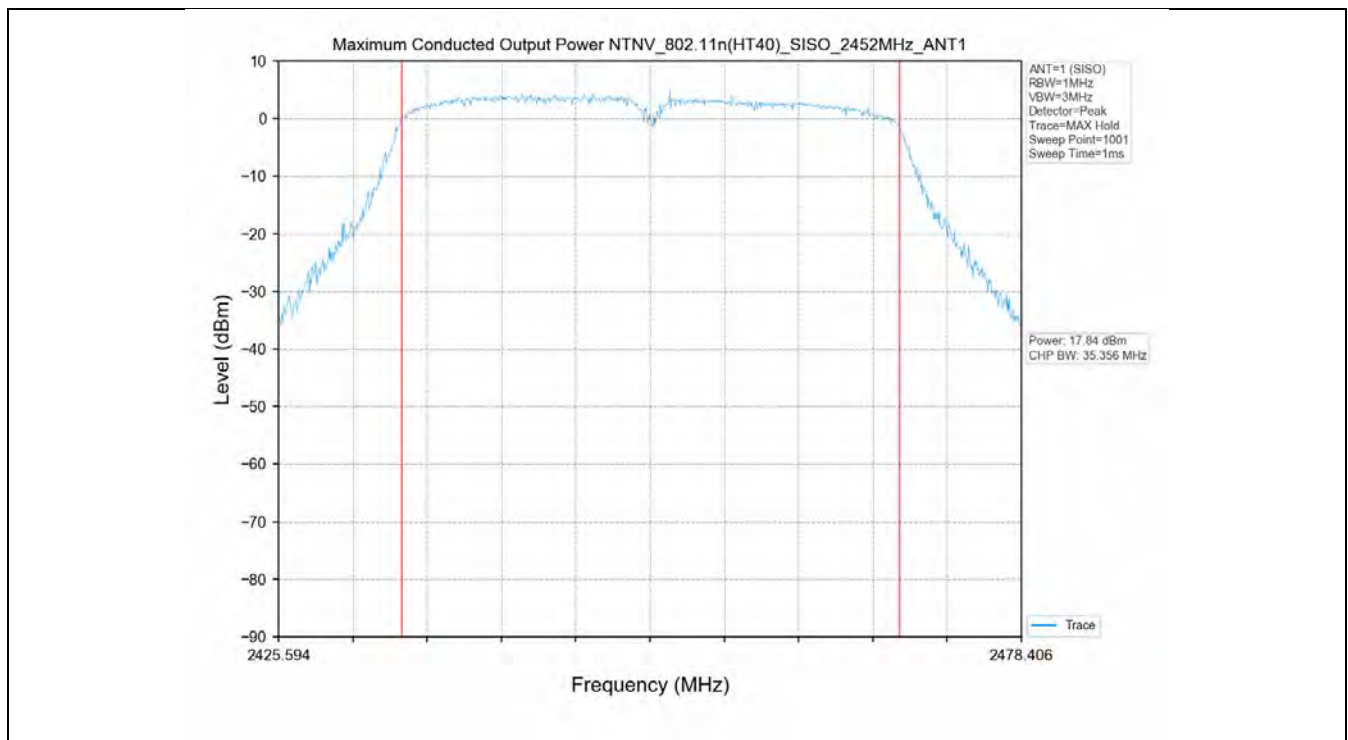
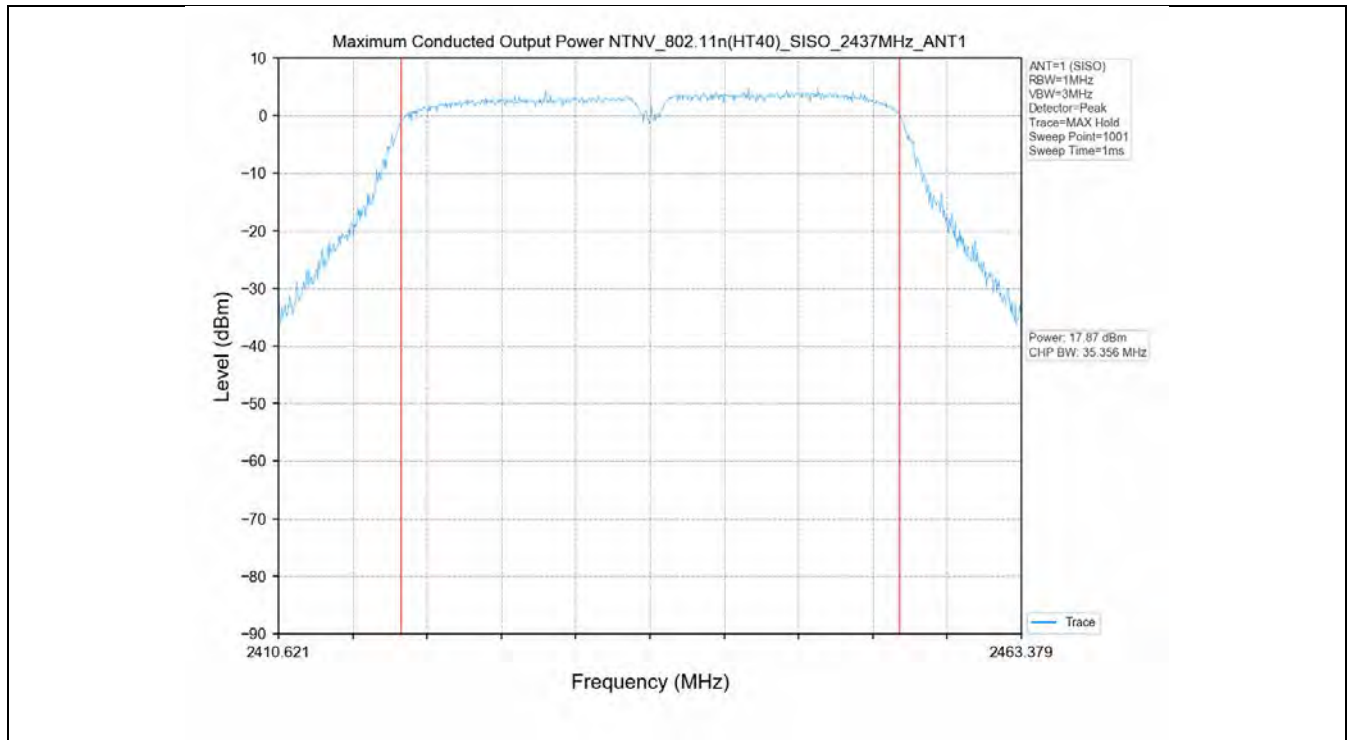










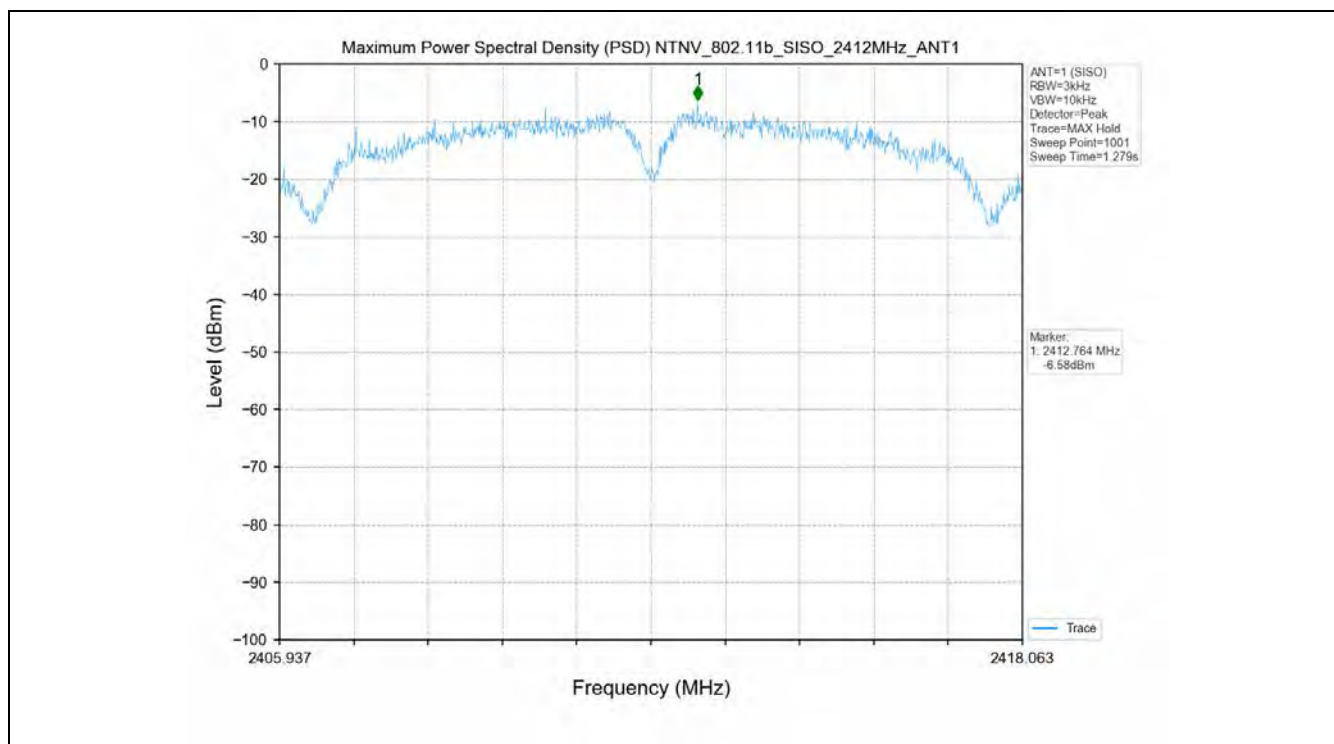


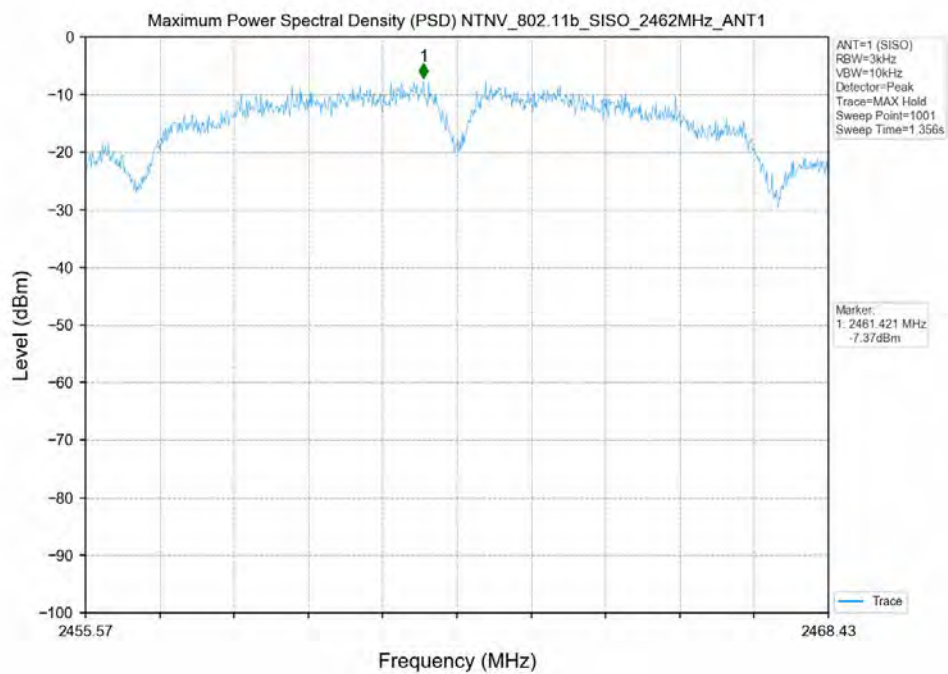
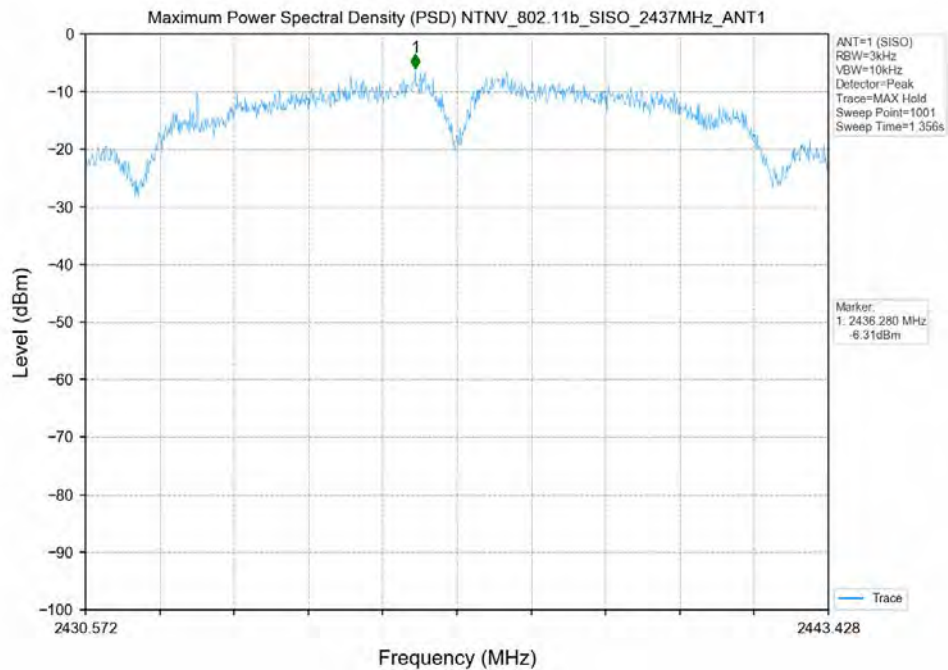
4. Maximum Power Spectral Density (PSD)

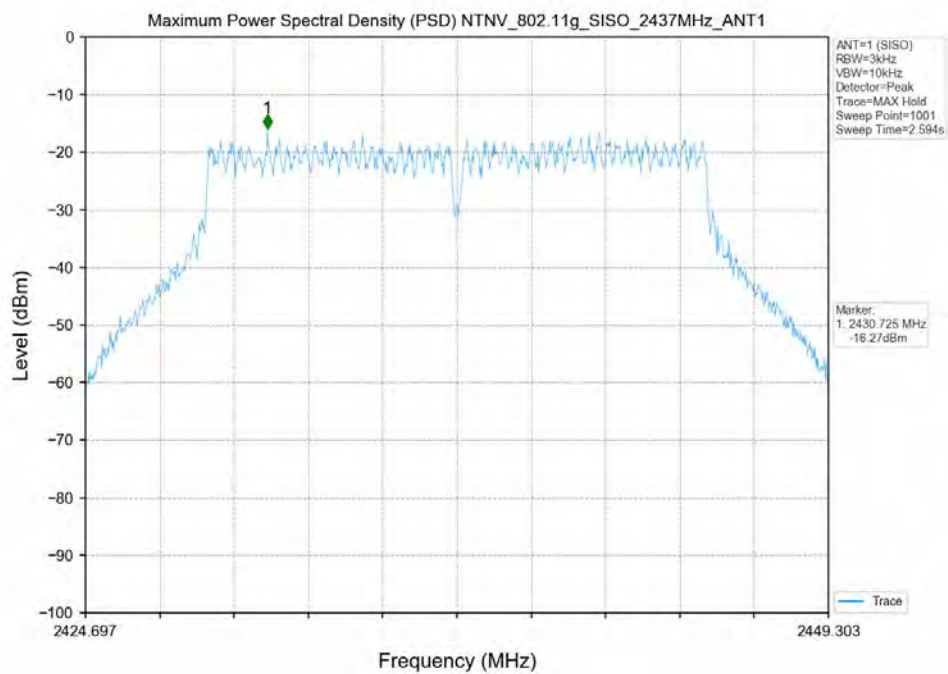
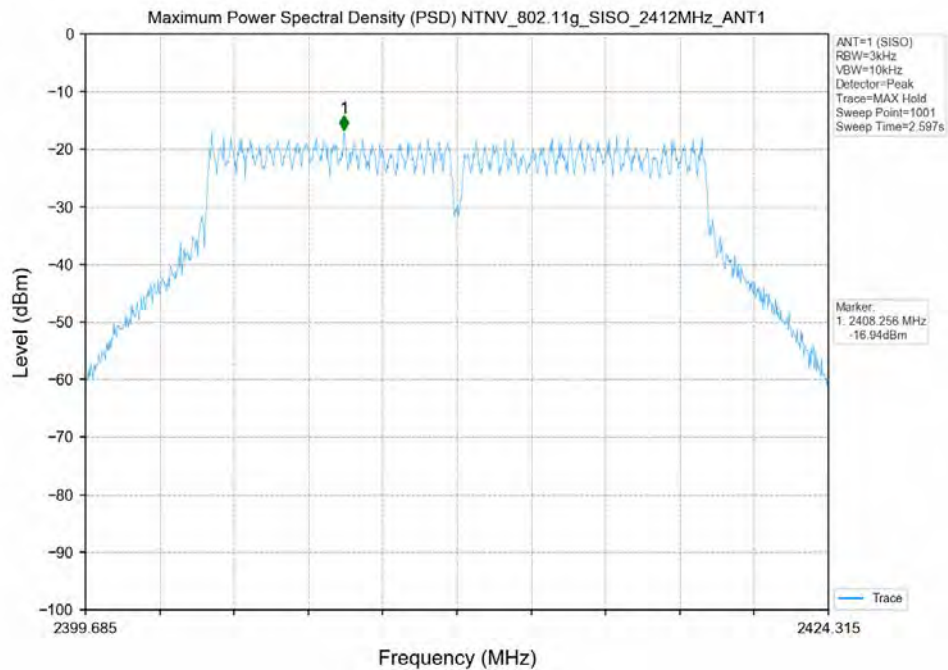
4.1 Test Result

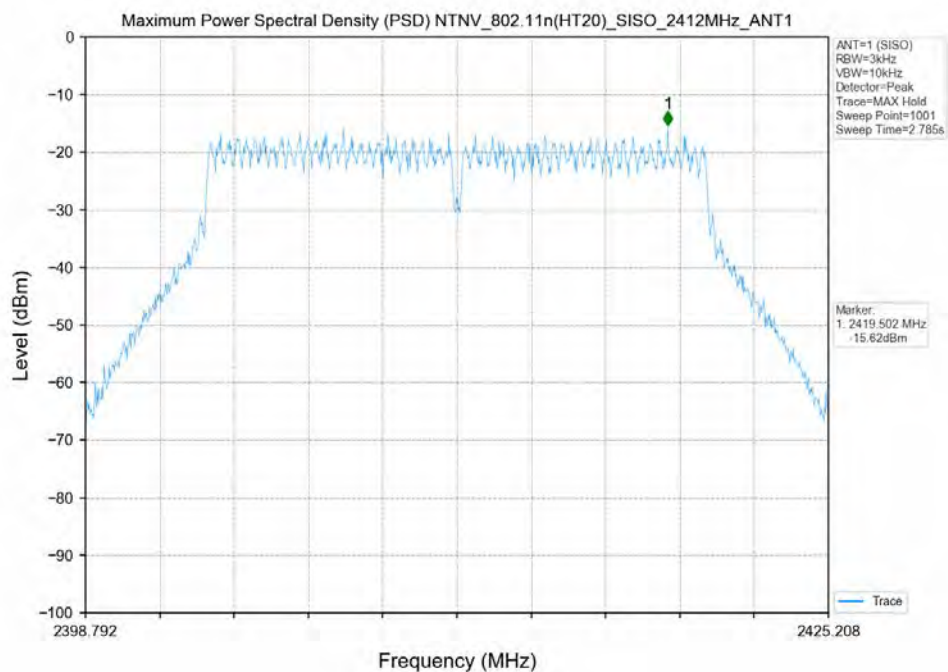
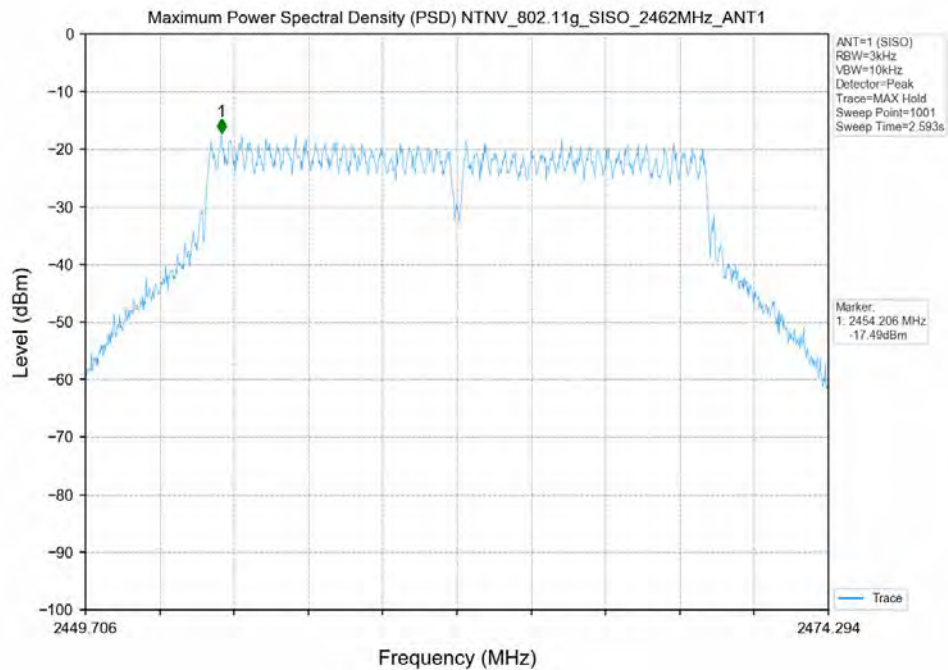
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-6.58	≤8	PASS
	2437	SISO	-6.31	≤8	PASS
	2462	SISO	-7.37	≤8	PASS
802.11g	2412	SISO	-16.94	≤8	PASS
	2437	SISO	-16.27	≤8	PASS
	2462	SISO	-17.49	≤8	PASS
802.11n(HT20)	2412	SISO	-15.62	≤8	PASS
	2437	SISO	-14.82	≤8	PASS
	2462	SISO	-15.94	≤8	PASS
802.11n(HT40)	2422	SISO	-19.00	≤8	PASS
	2437	SISO	-17.10	≤8	PASS
	2452	SISO	-16.47	≤8	PASS

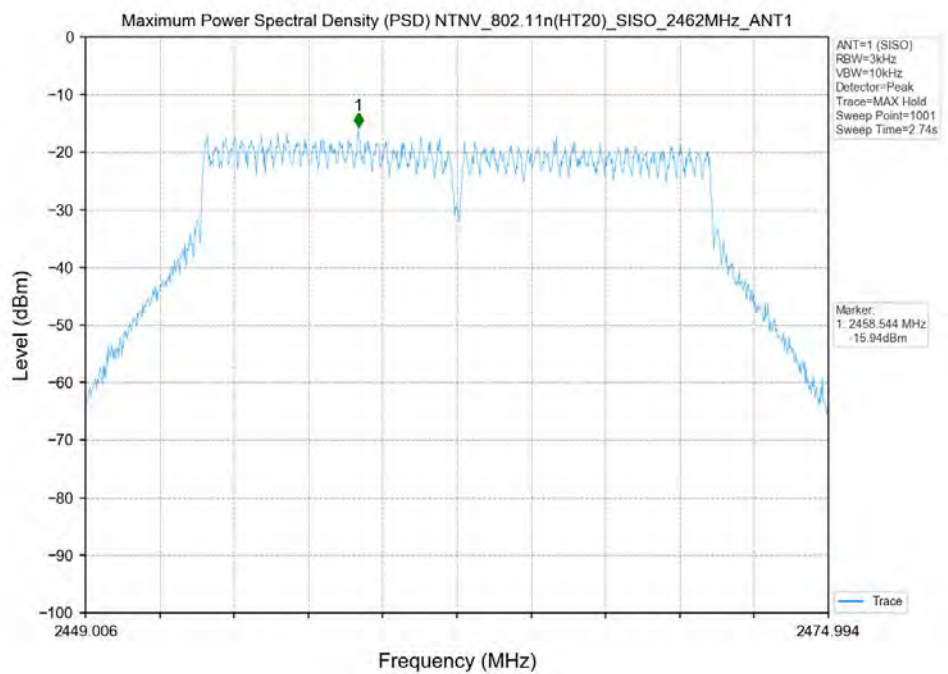
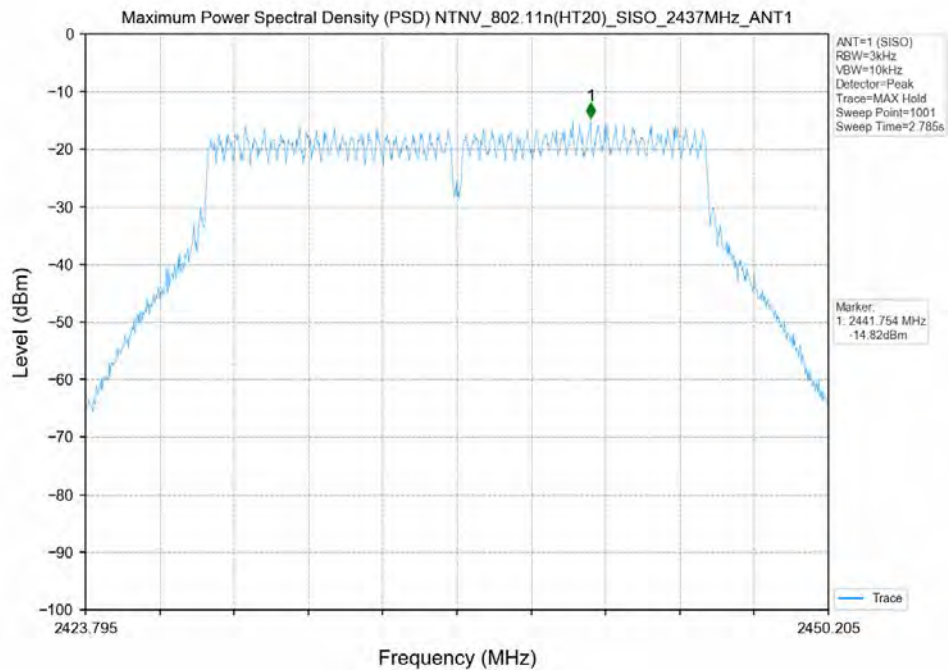
4.2 Test Graph

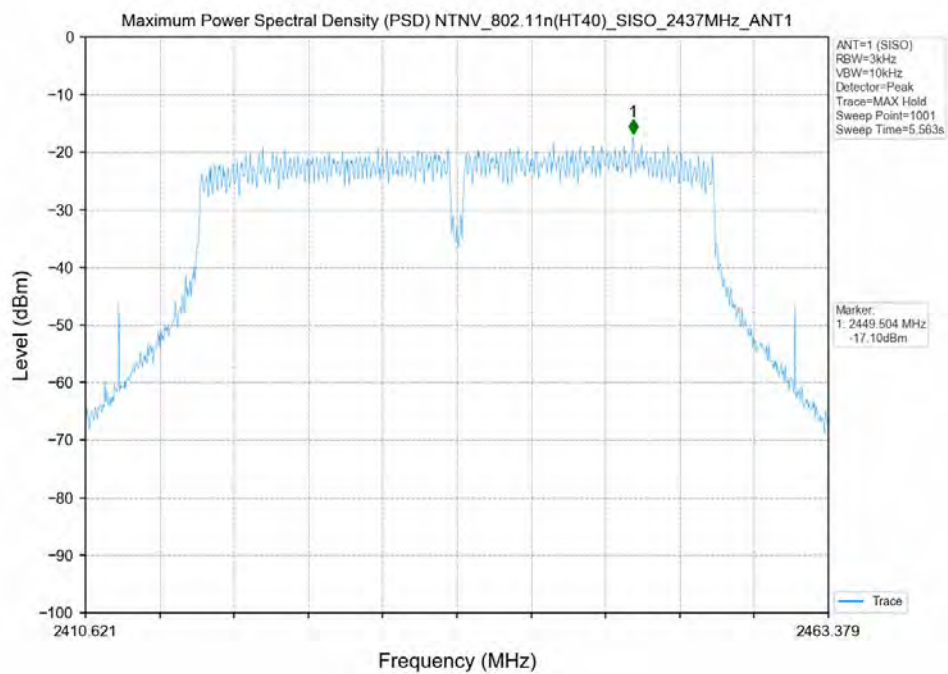
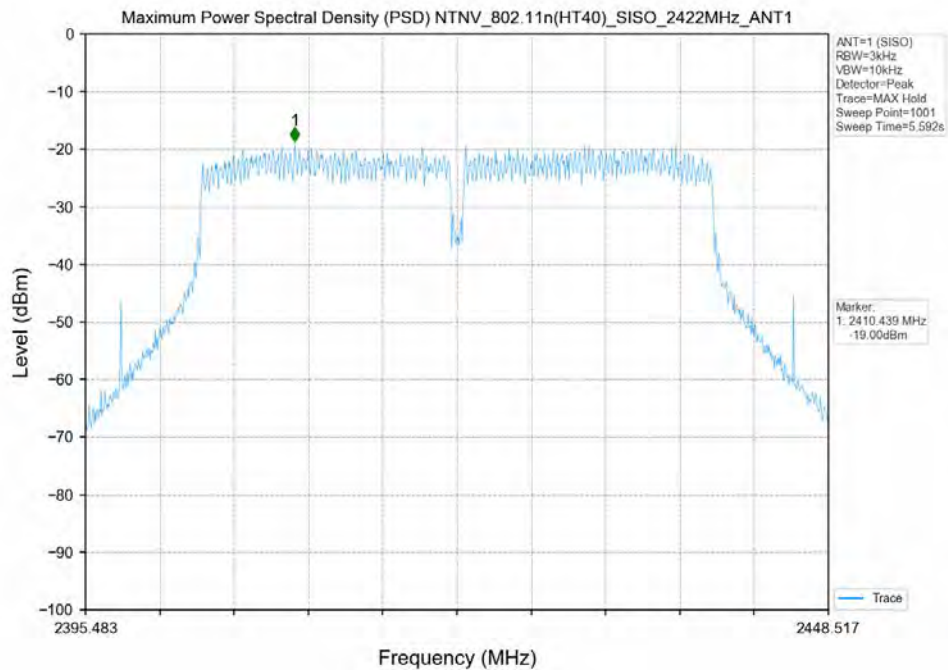


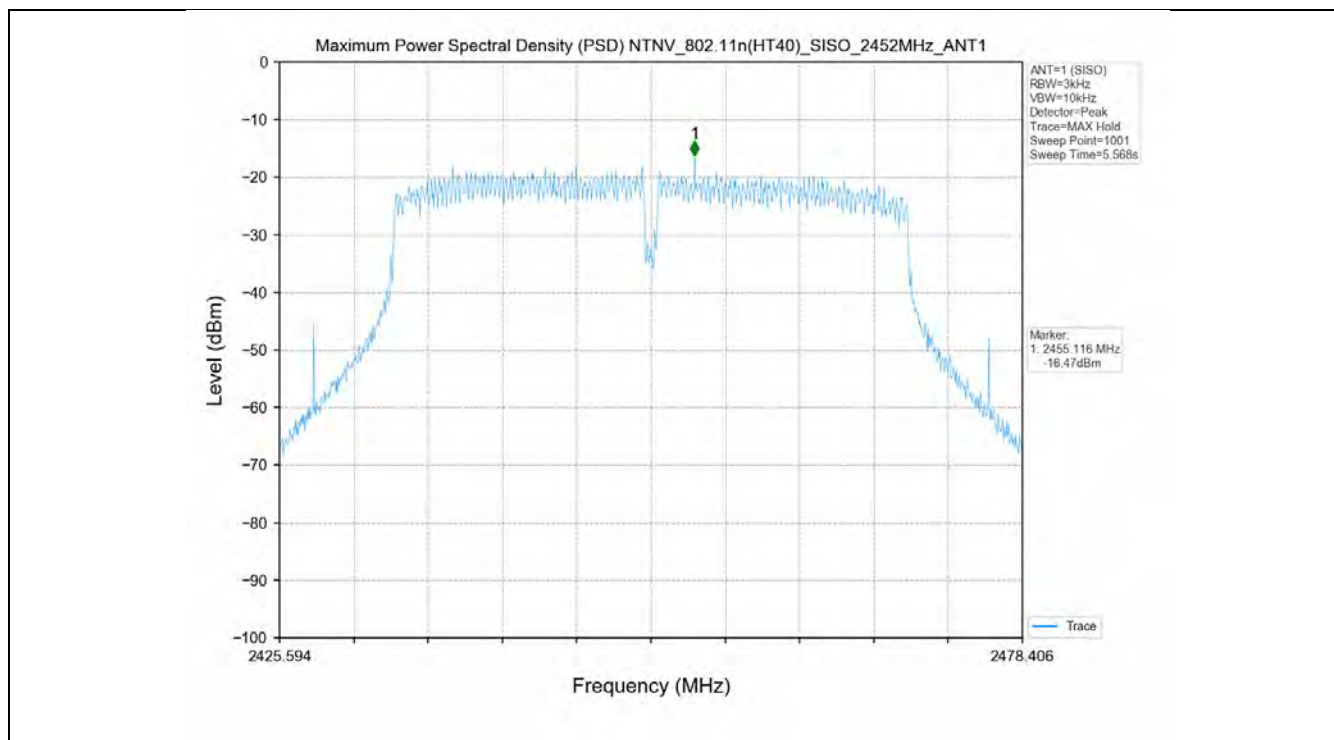












5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-12.74	PASS
	2437	SISO	1	Refer to test graph	-12.74	PASS
	2462	SISO	1	Refer to test graph	-12.74	PASS
802.11g	2412	SISO	1	Refer to test graph	-22.14	PASS
	2437	SISO	1	Refer to test graph	-22.14	PASS
	2462	SISO	1	Refer to test graph	-22.14	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-20.85	PASS
	2437	SISO	1	Refer to test graph	-20.85	PASS
	2462	SISO	1	Refer to test graph	-20.85	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-23.21	PASS
	2437	SISO	1	Refer to test graph	-23.21	PASS
	2452	SISO	1	Refer to test graph	-23.21	PASS

5.2 Test Graph

