



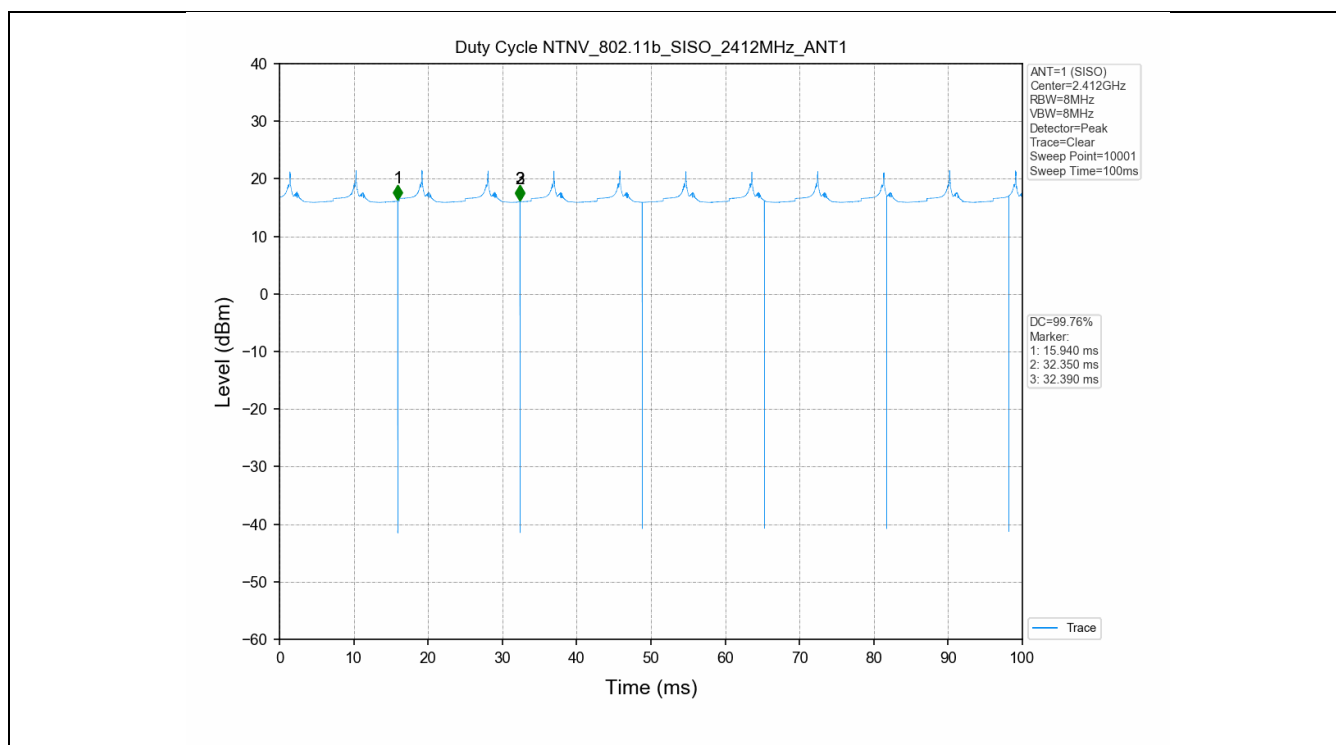
Appendix A for SHEM200300196901

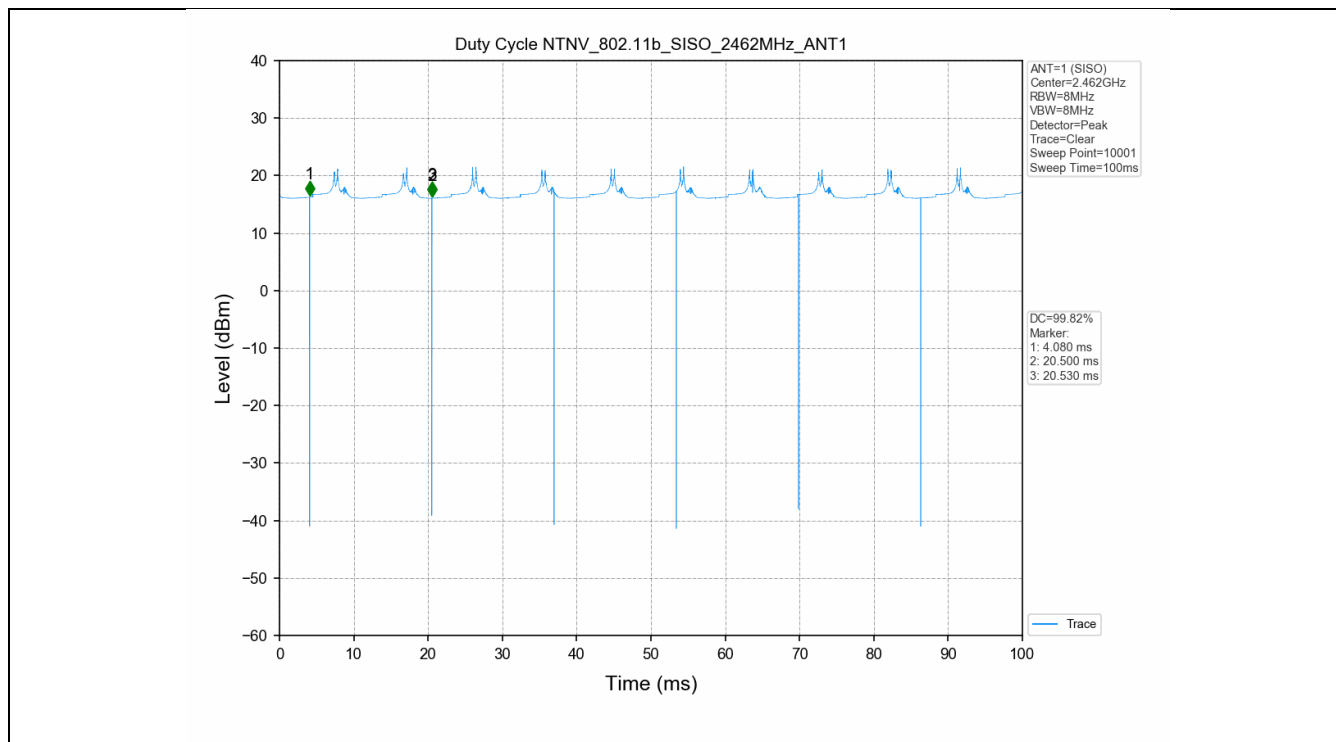
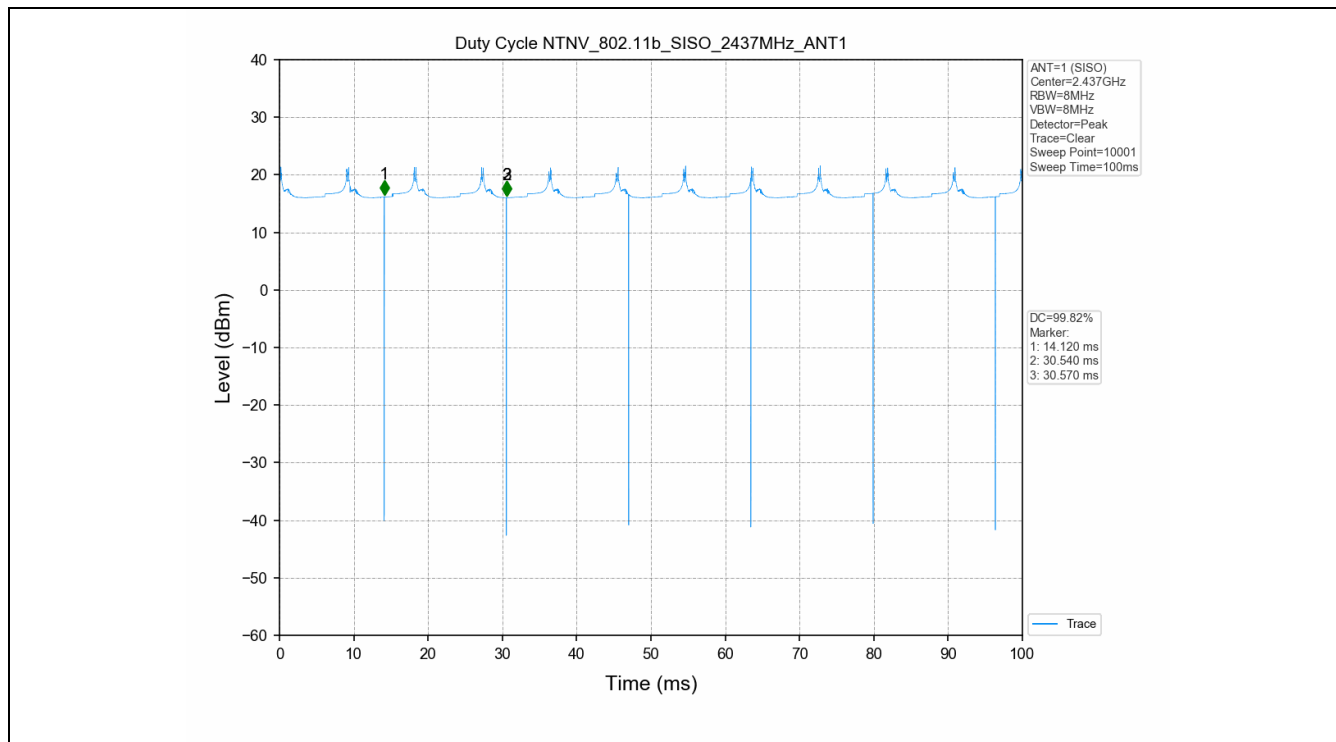
1. Duty Cycle

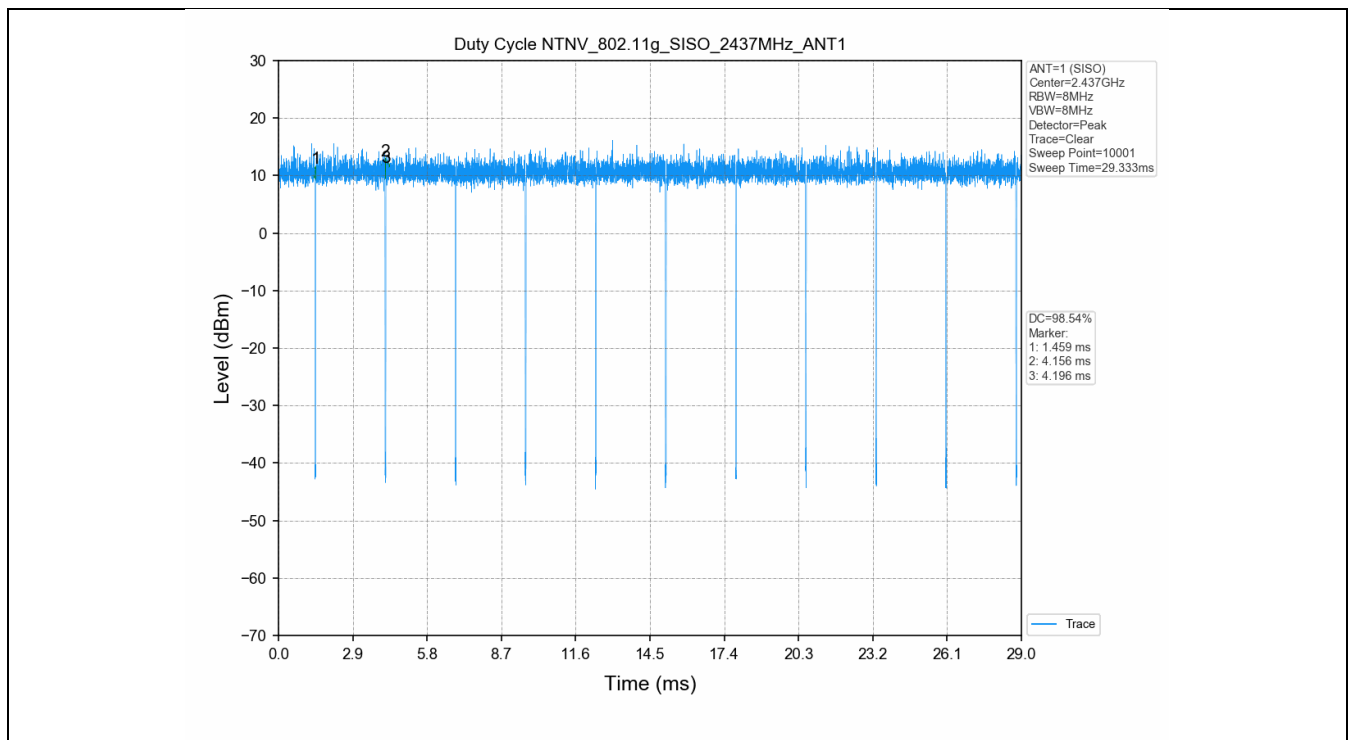
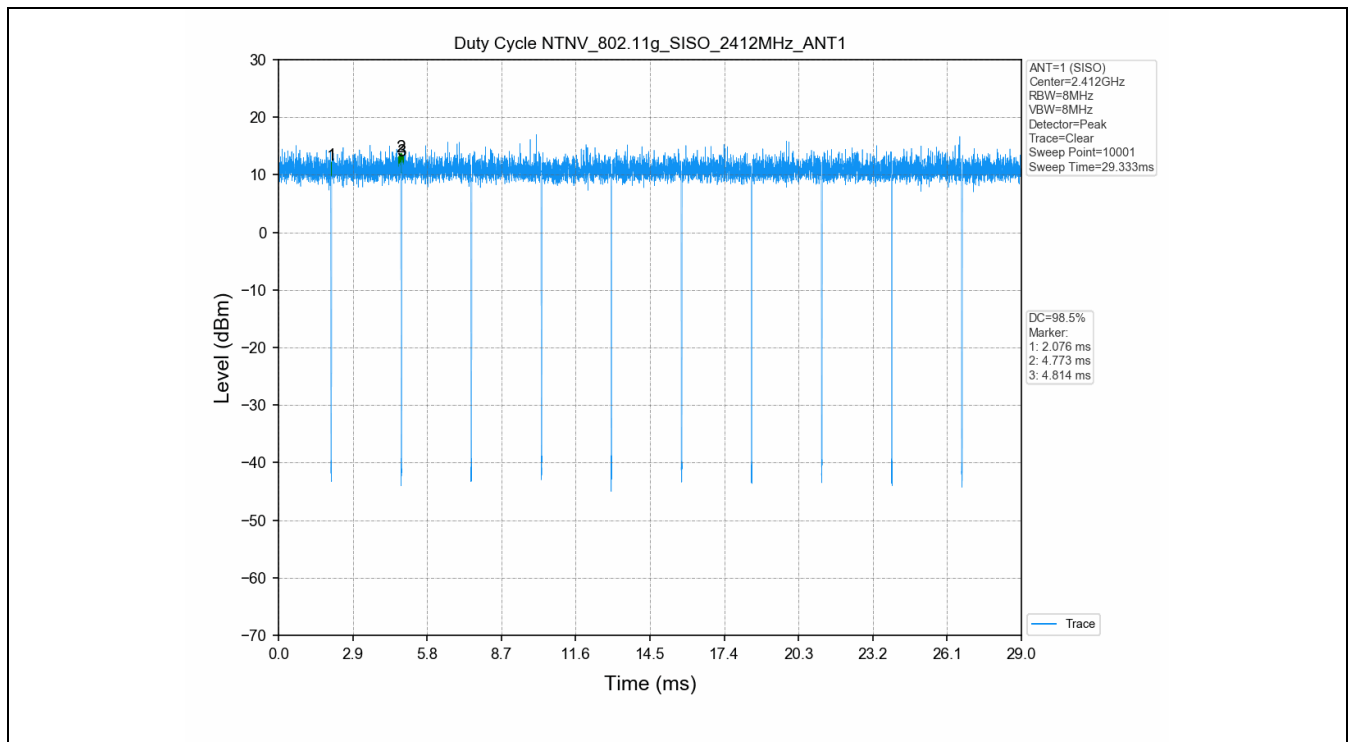
1.1 Test Result

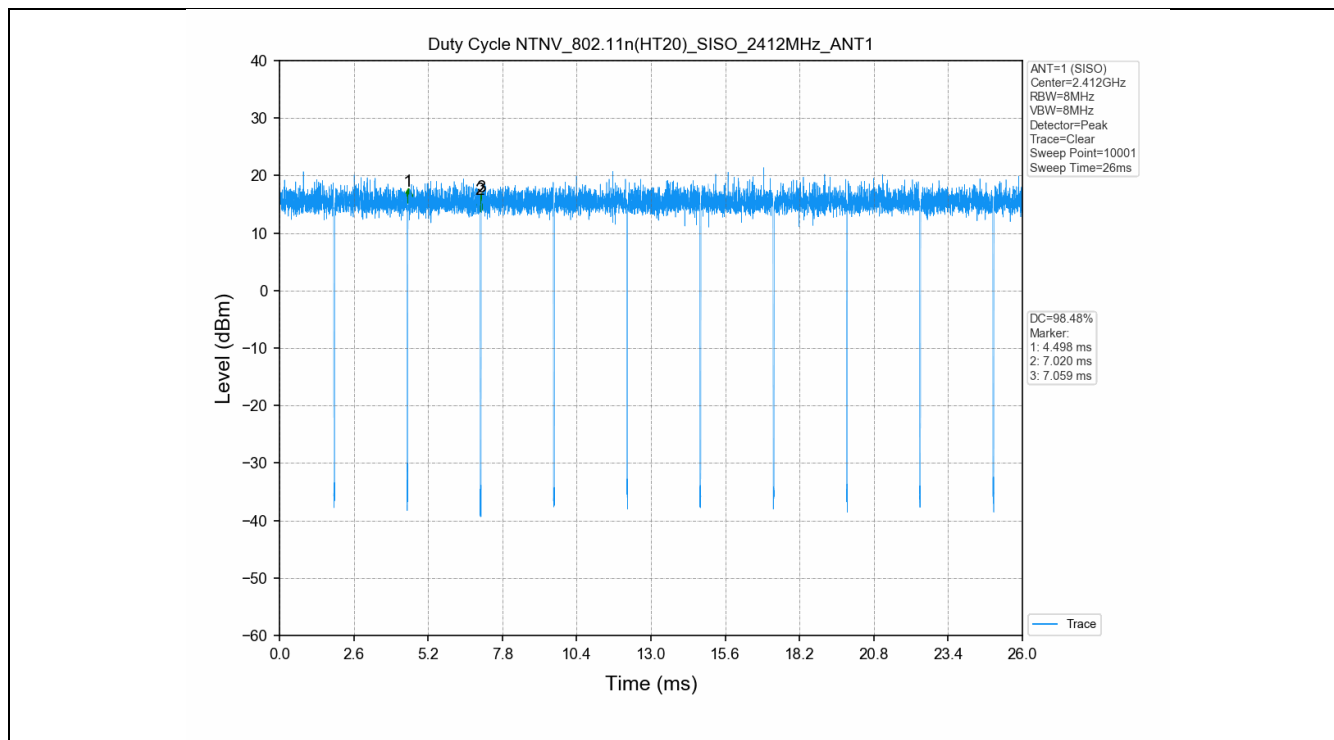
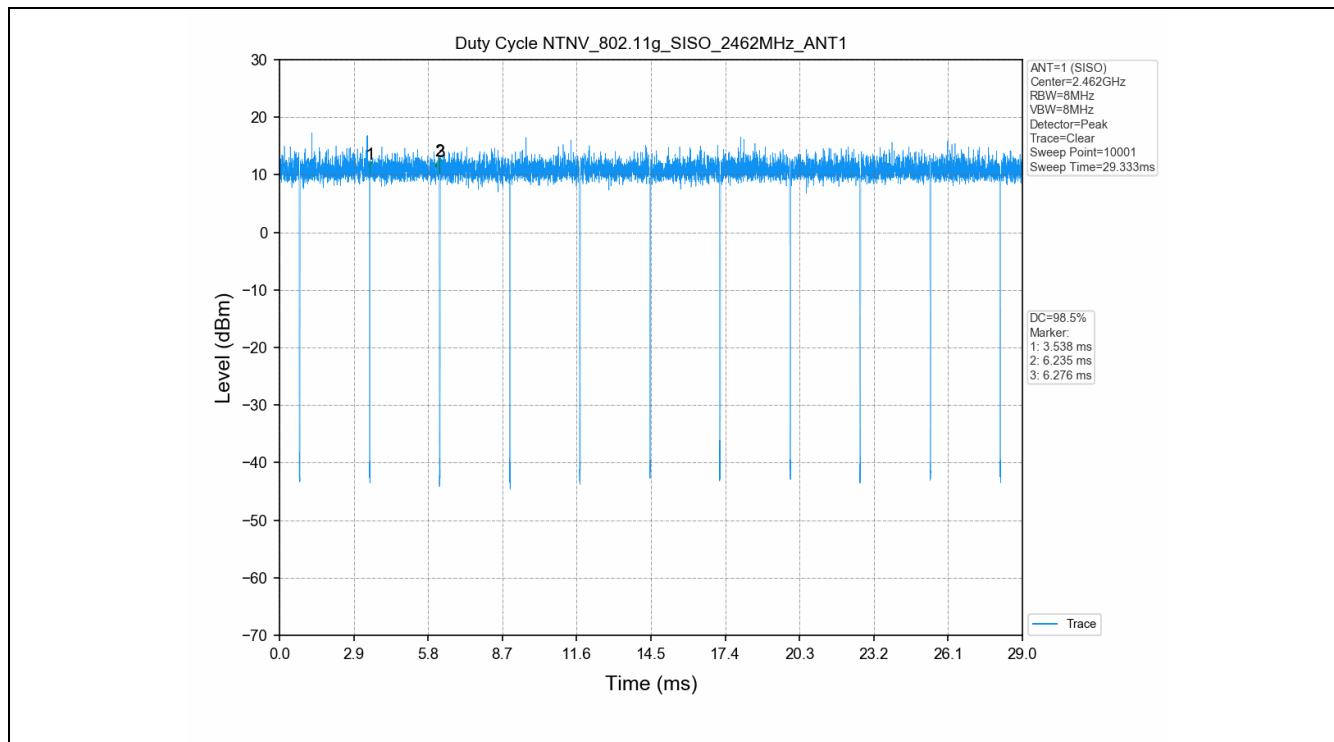
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	16.410	16.450	99.76	0.01
	2437	SISO	1	16.420	16.450	99.82	0.01
	2462	SISO	1	16.420	16.450	99.82	0.01
802.11g	2412	SISO	1	2.697	2.738	98.50	0.07
	2437	SISO	1	2.697	2.737	98.54	0.06
	2462	SISO	1	2.697	2.738	98.50	0.07
802.11n(HT20)	2412	SISO	1	2.522	2.561	98.48	0.07
	2437	SISO	1	2.522	2.561	98.48	0.07
	2462	SISO	1	2.522	2.561	98.48	0.07
802.11n(HT40)	2422	SISO	1	1.197	1.235	96.92	0.14
	2437	SISO	1	1.197	1.235	96.92	0.14
	2452	SISO	1	1.197	1.235	96.92	0.14

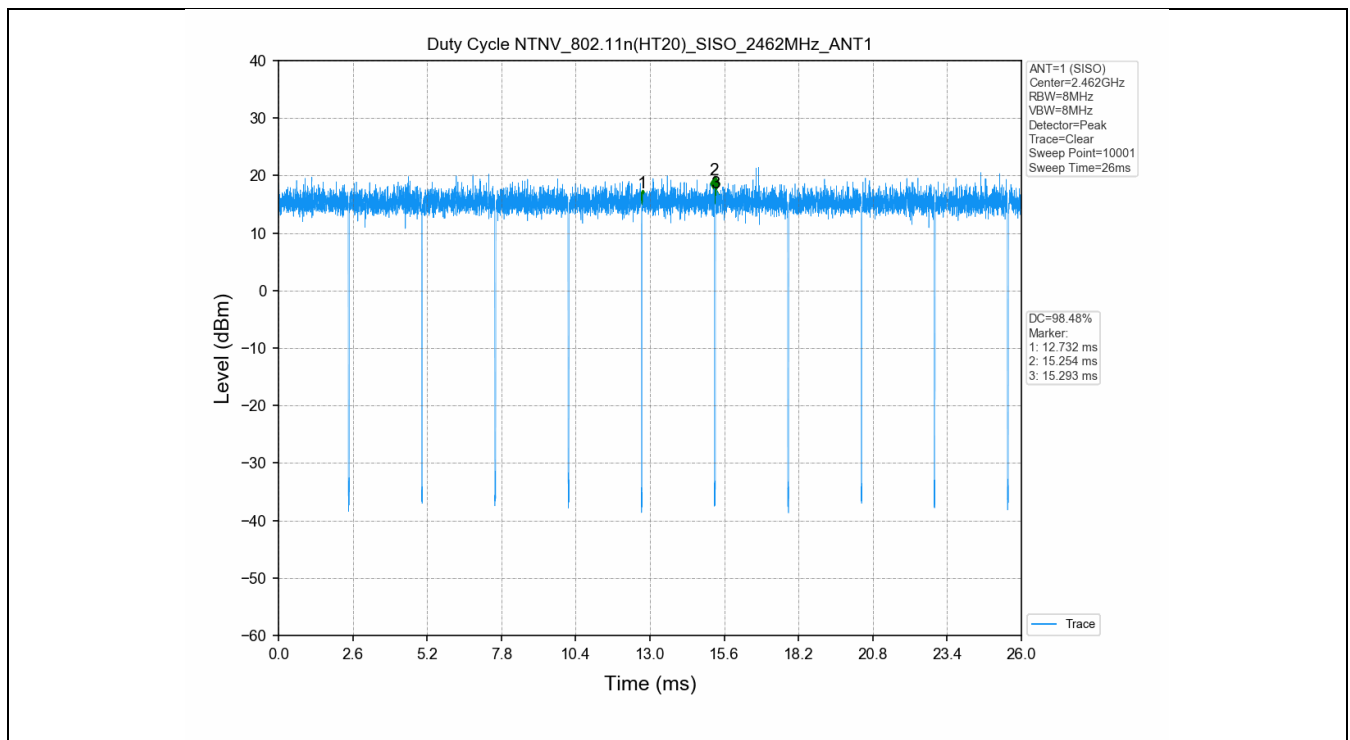
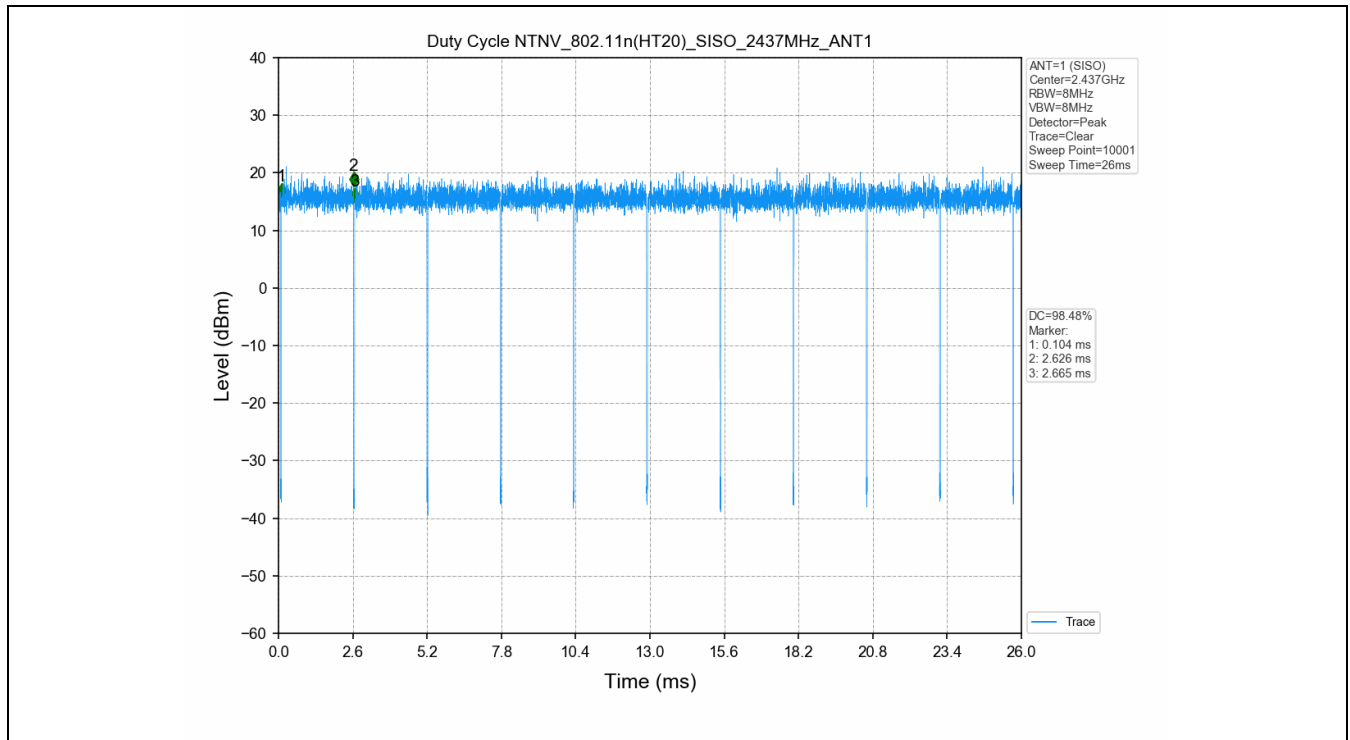
1.2 Test Graph

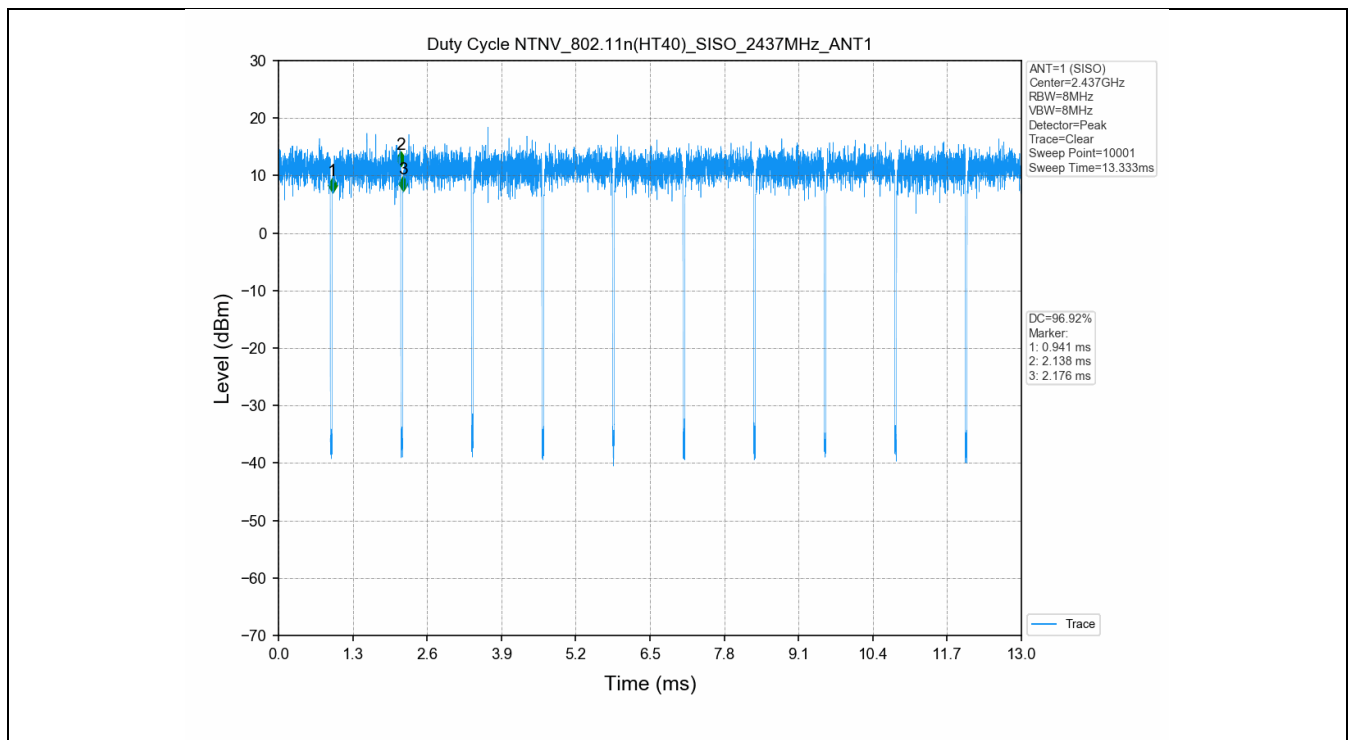
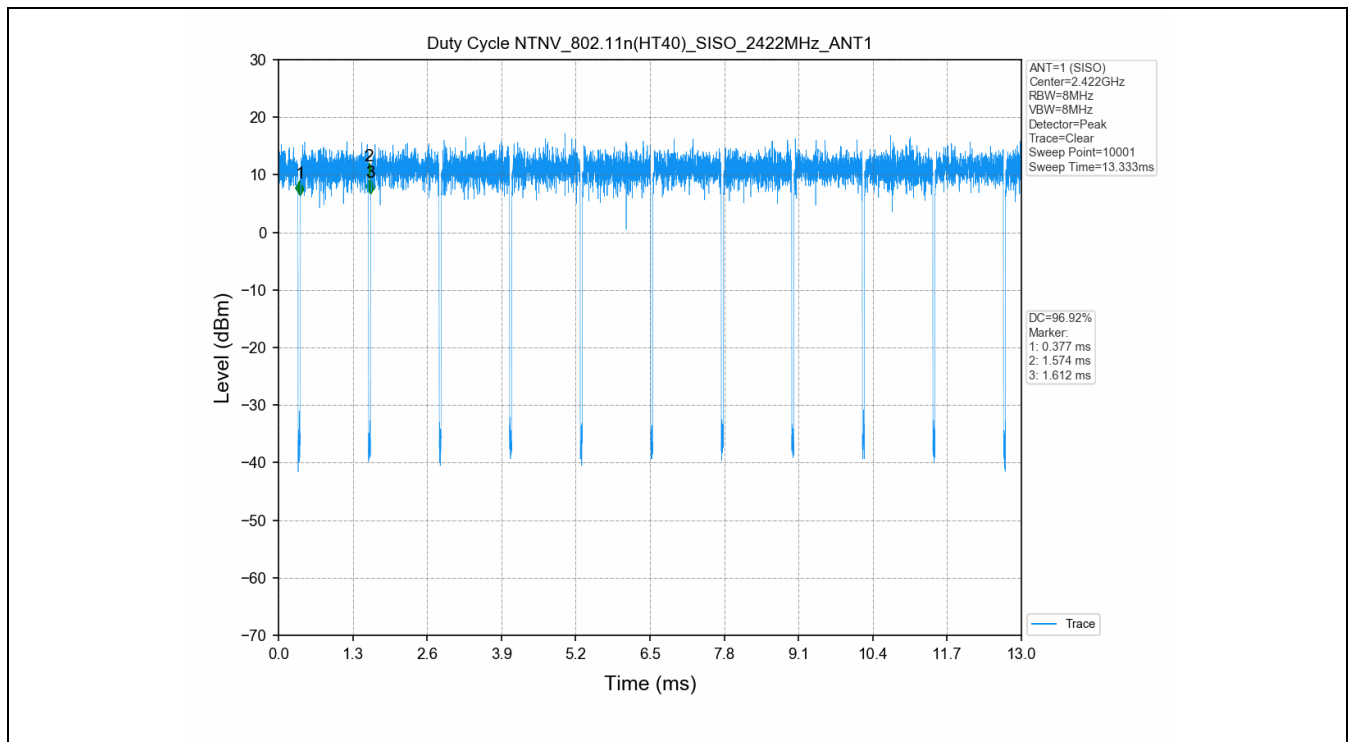


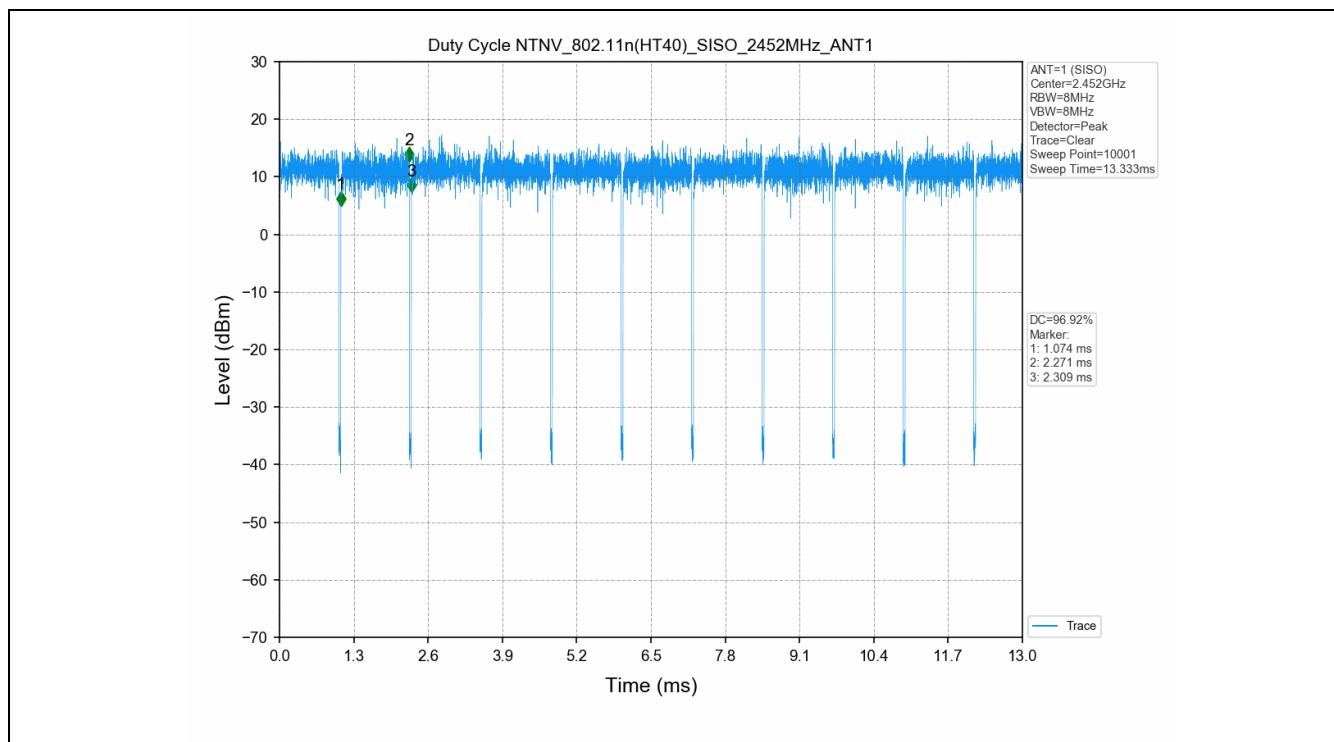












2. Bandwidth

2.1 Test Result

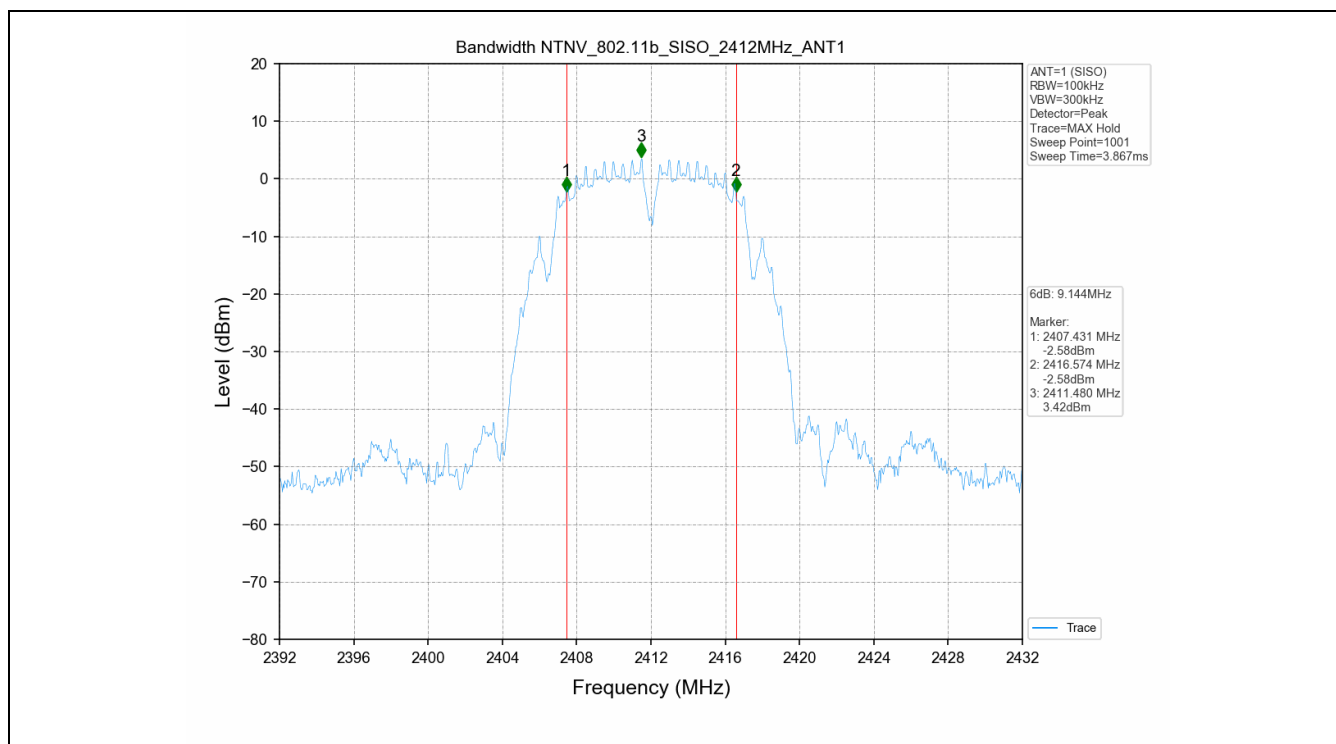
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	9.144	≥ 0.5	PASS
	2437	SISO	1	9.151	≥ 0.5	PASS
	2462	SISO	1	9.147	≥ 0.5	PASS
802.11g	2412	SISO	1	16.423	≥ 0.5	PASS
	2437	SISO	1	16.436	≥ 0.5	PASS
	2462	SISO	1	16.415	≥ 0.5	PASS
802.11n(HT20)	2412	SISO	1	17.633	≥ 0.5	PASS
	2437	SISO	1	17.643	≥ 0.5	PASS
	2462	SISO	1	17.640	≥ 0.5	PASS
802.11n(HT40)	2422	SISO	1	35.707	≥ 0.5	PASS
	2437	SISO	1	35.643	≥ 0.5	PASS
	2452	SISO	1	35.788	≥ 0.5	PASS

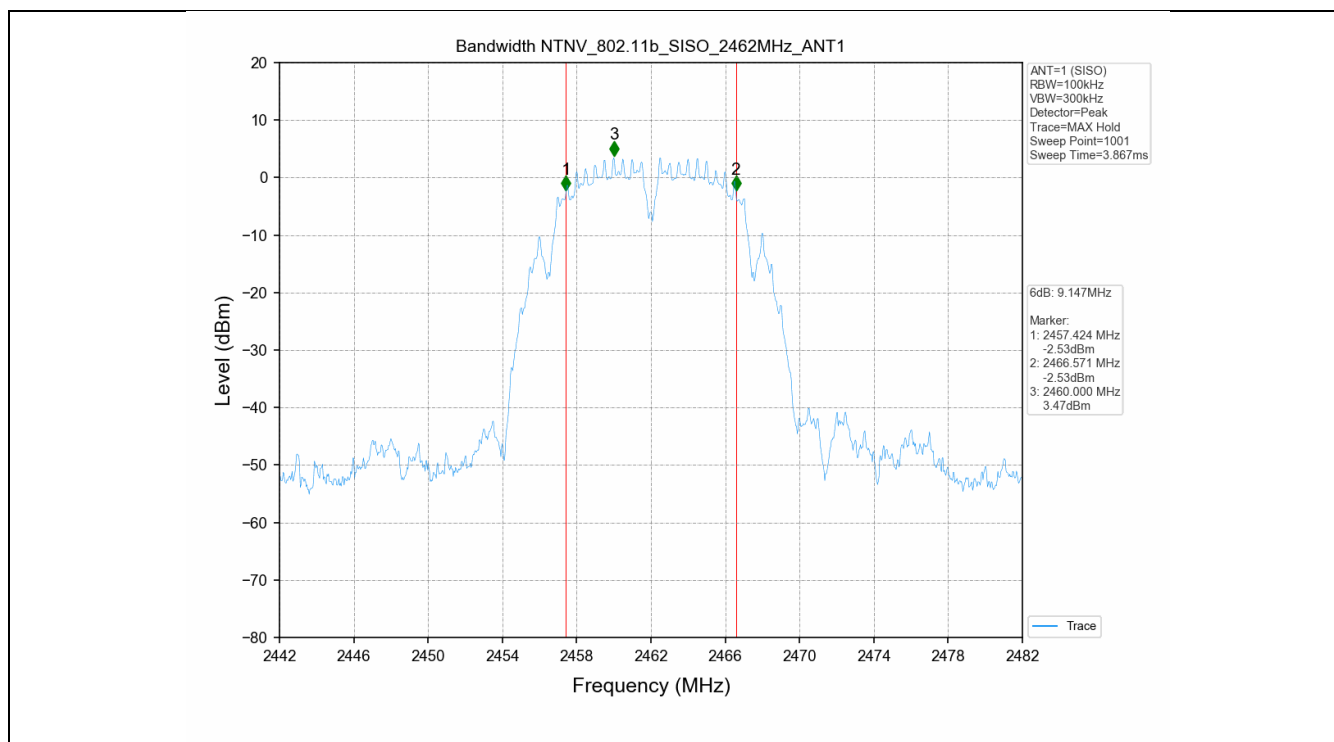
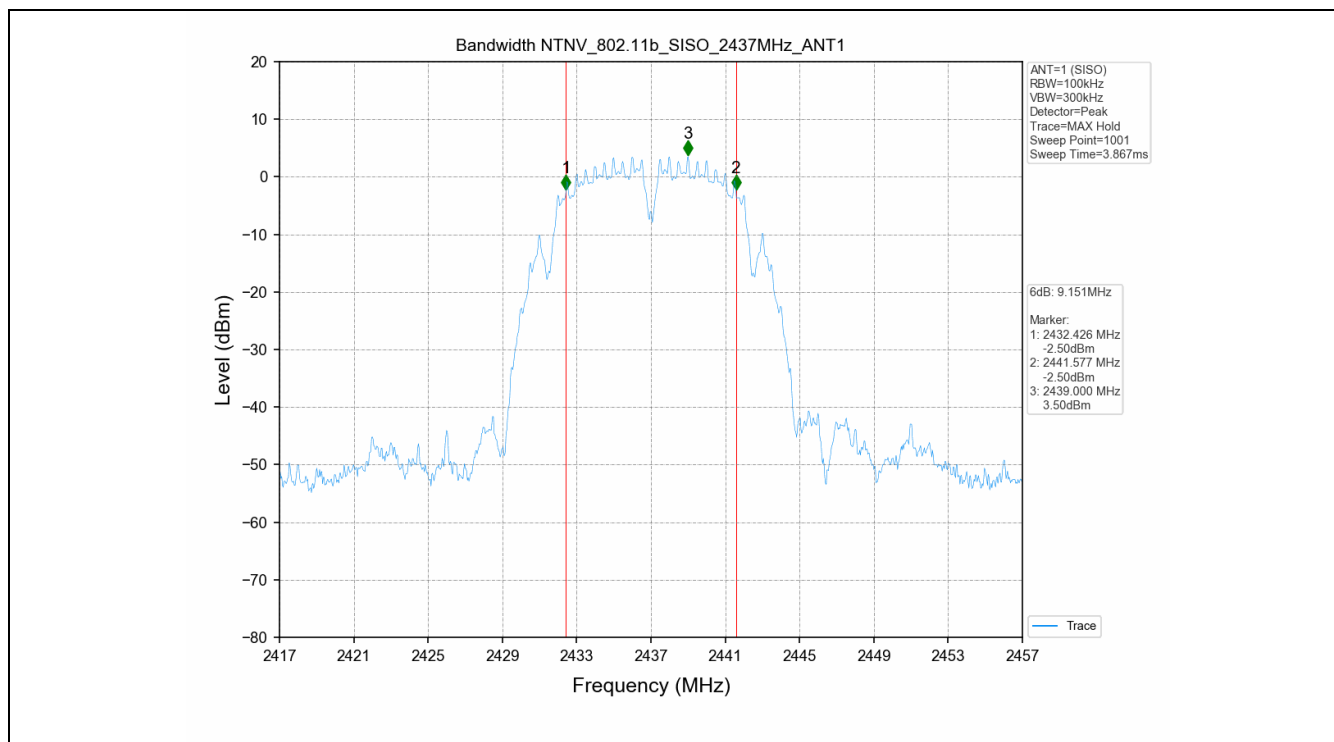
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	11.042	Only for Report Use
	2437	SISO	1	11.031	Only for Report Use
	2462	SISO	1	11.007	Only for Report Use
802.11g	2412	SISO	1	16.657	Only for Report Use
	2437	SISO	1	16.644	Only for Report Use

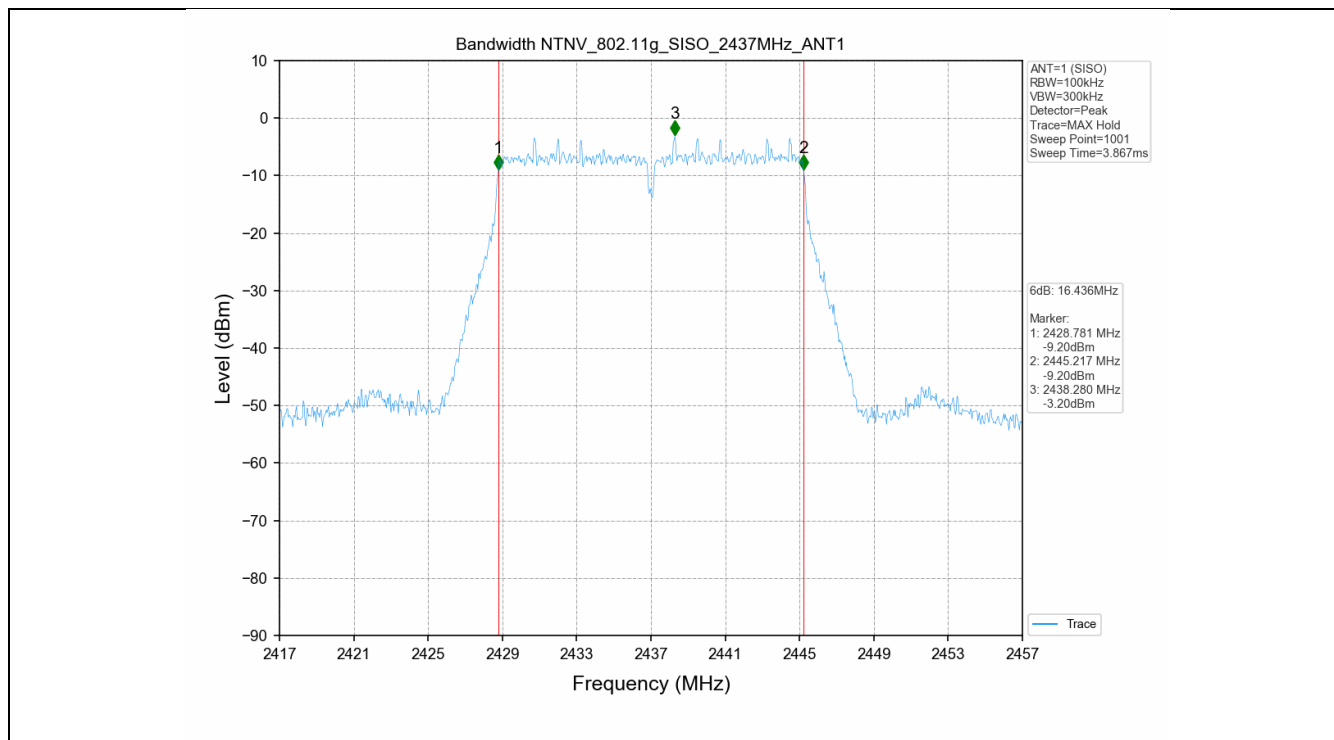
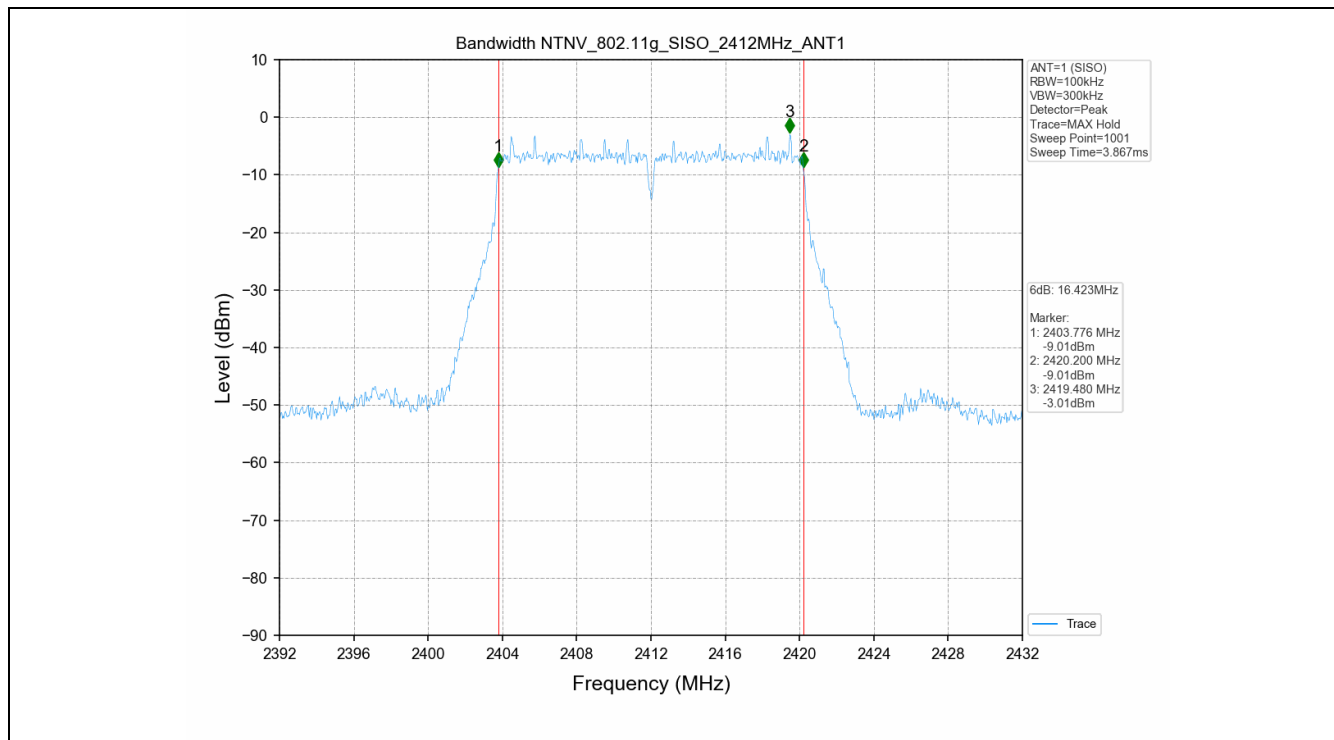


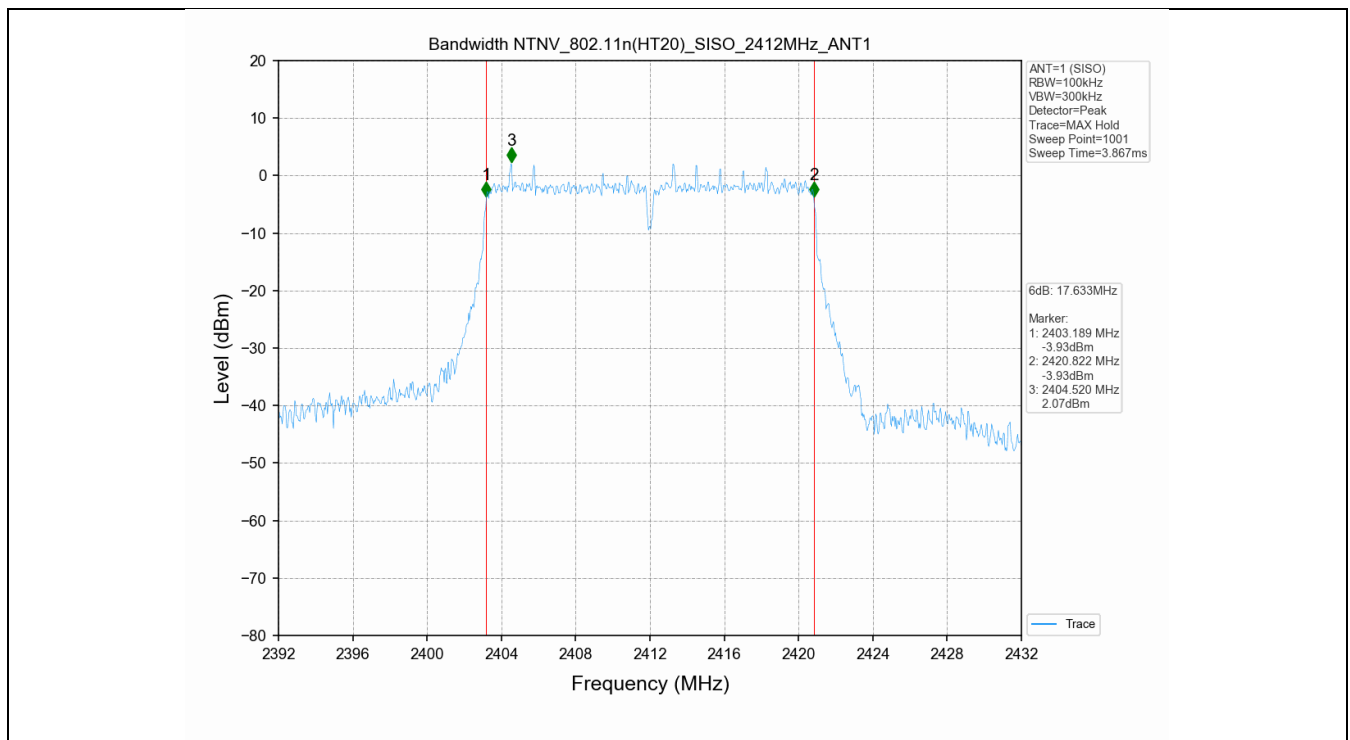
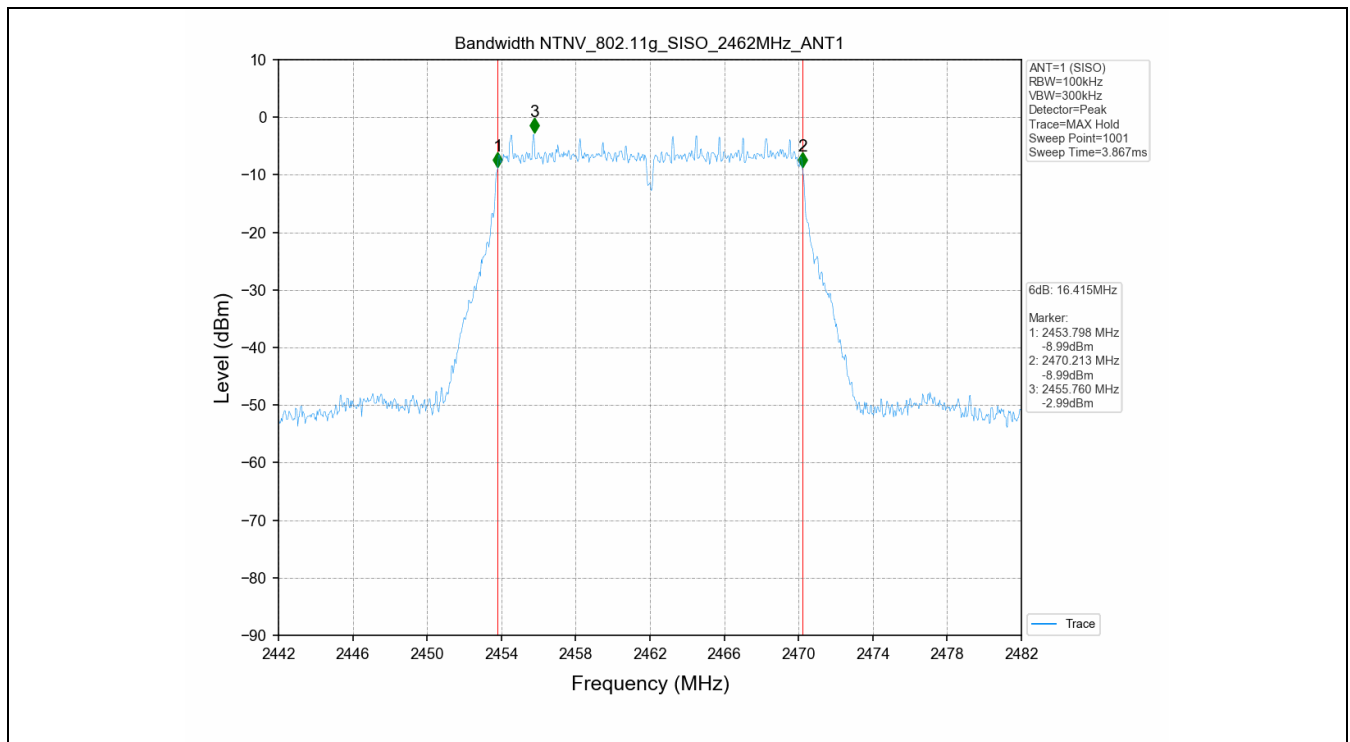
	2462	SISO	1	16.667	Only for Report Use
802.11n(HT20)	2412	SISO	1	17.706	Only for Report Use
	2437	SISO	1	17.703	Only for Report Use
	2462	SISO	1	17.713	Only for Report Use
	2422	SISO	1	36.155	Only for Report Use
802.11n(HT40)	2437	SISO	1	36.106	Only for Report Use
	2452	SISO	1	36.094	Only for Report Use

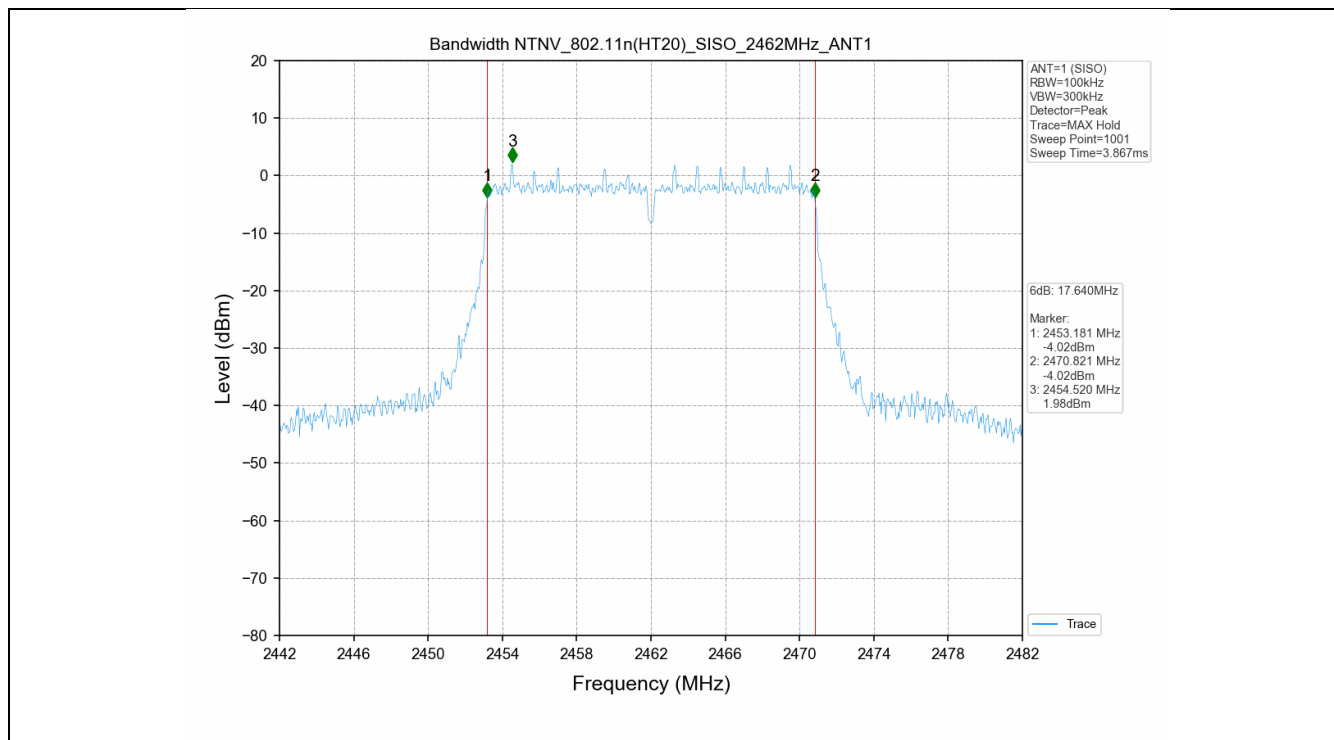
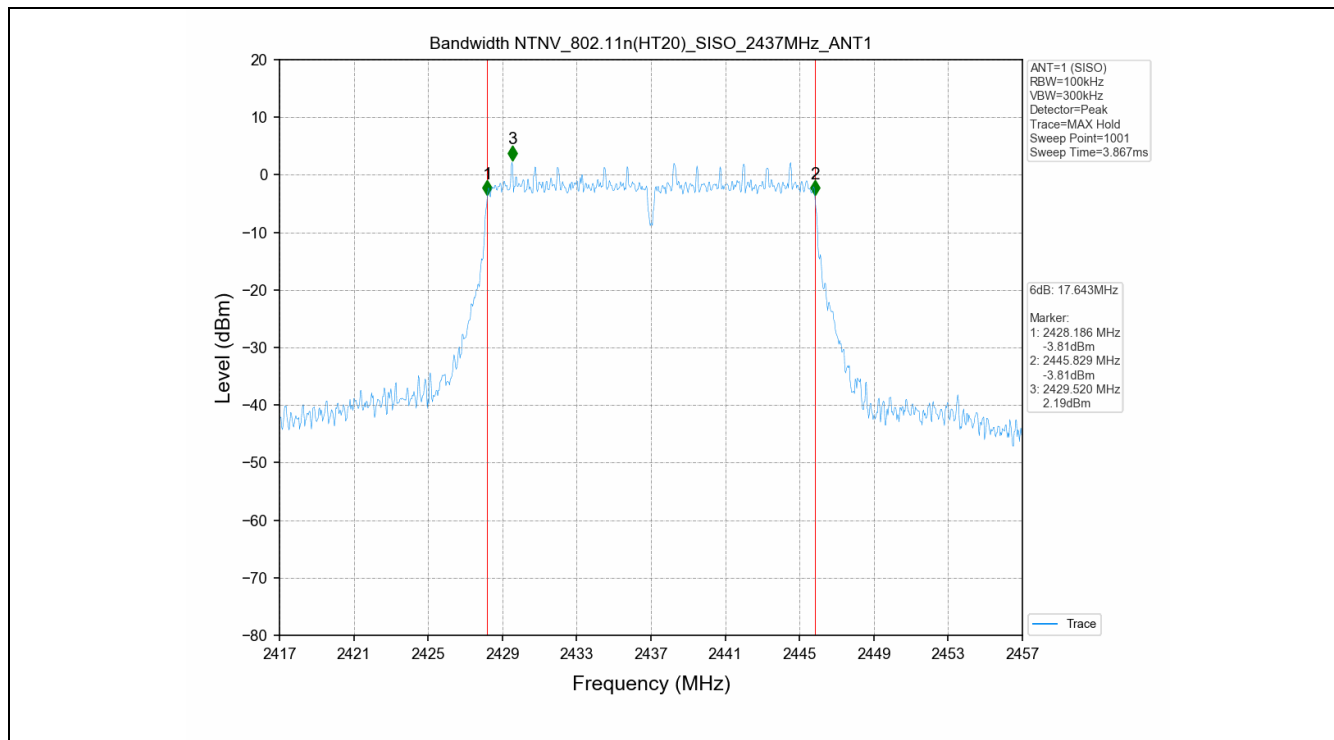
2.2 Test Graph - 6dB Bandwidth

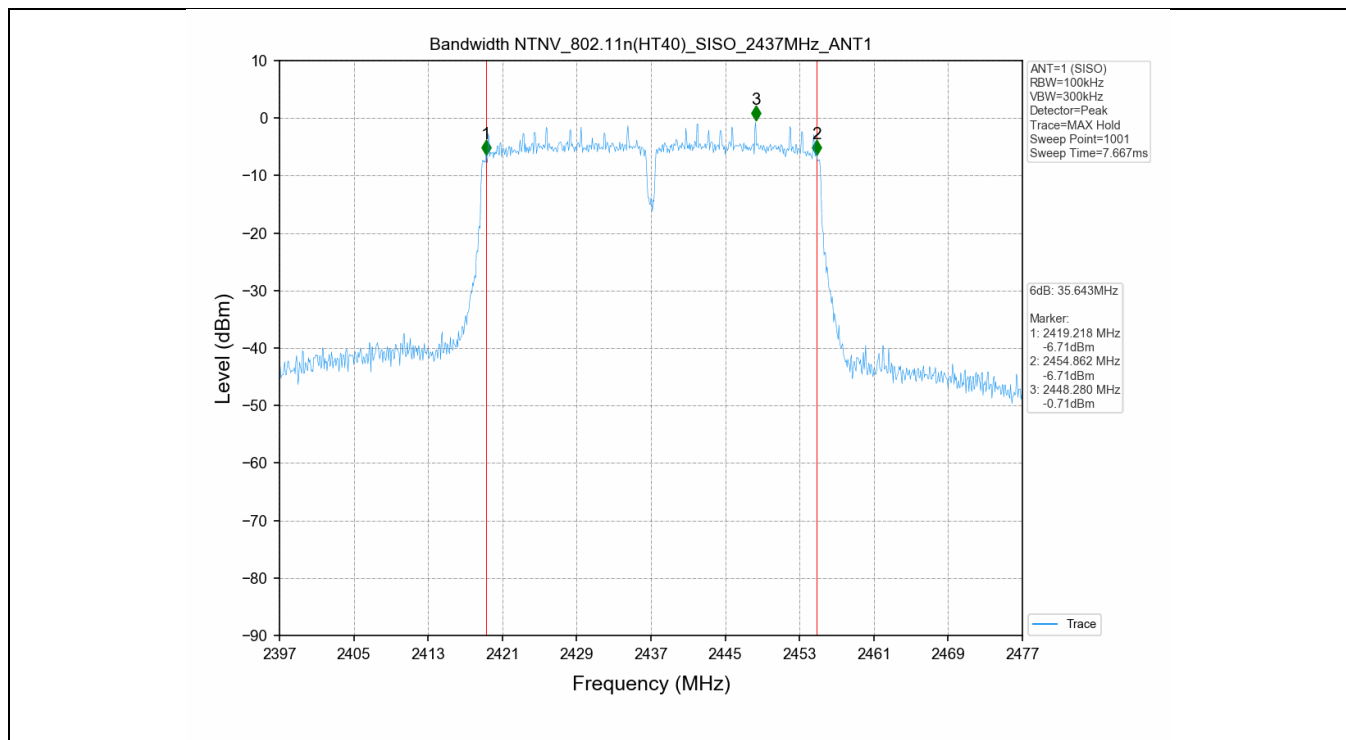
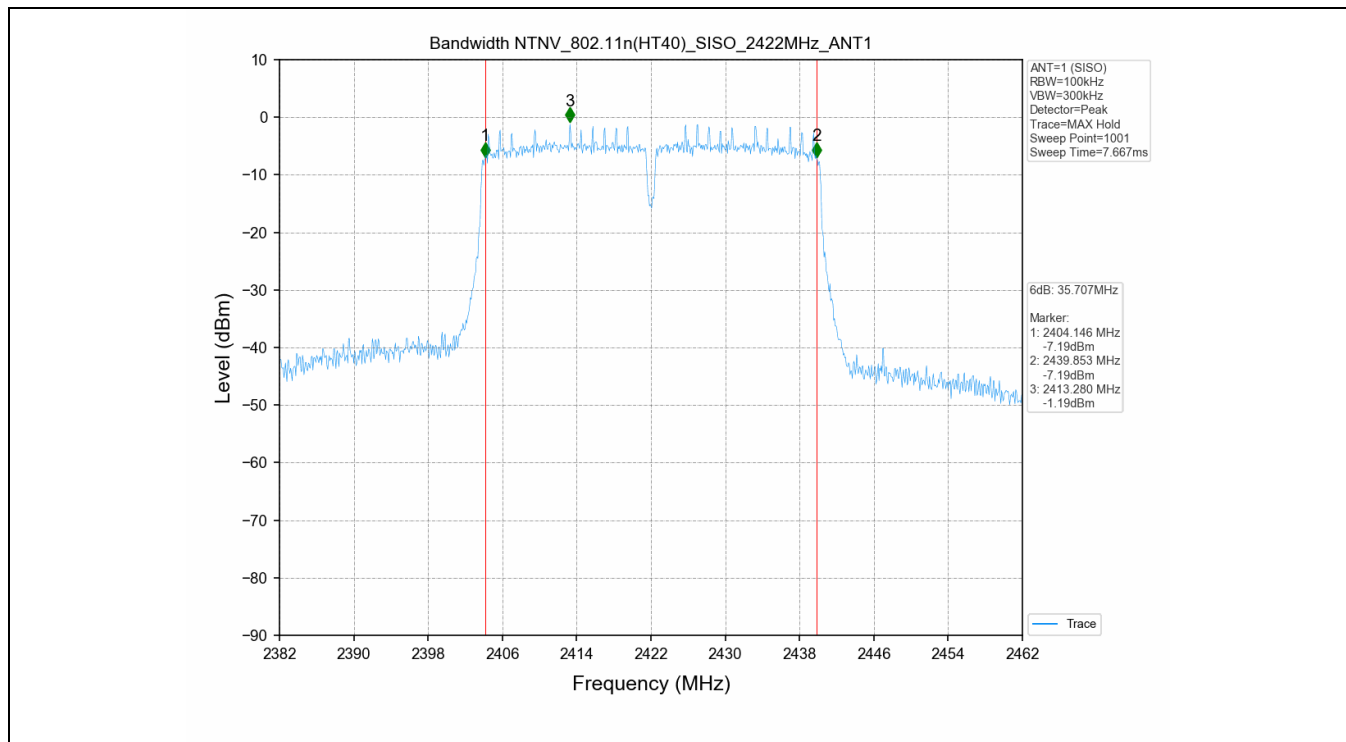


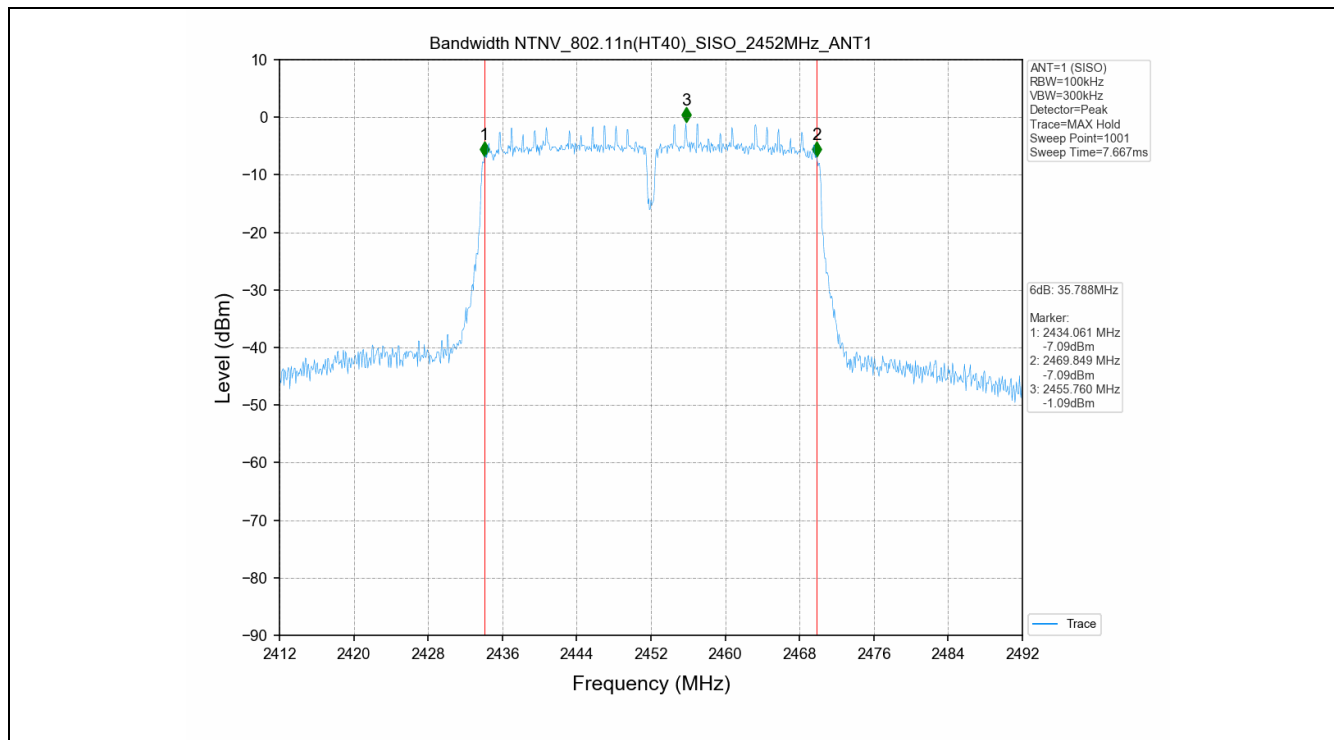




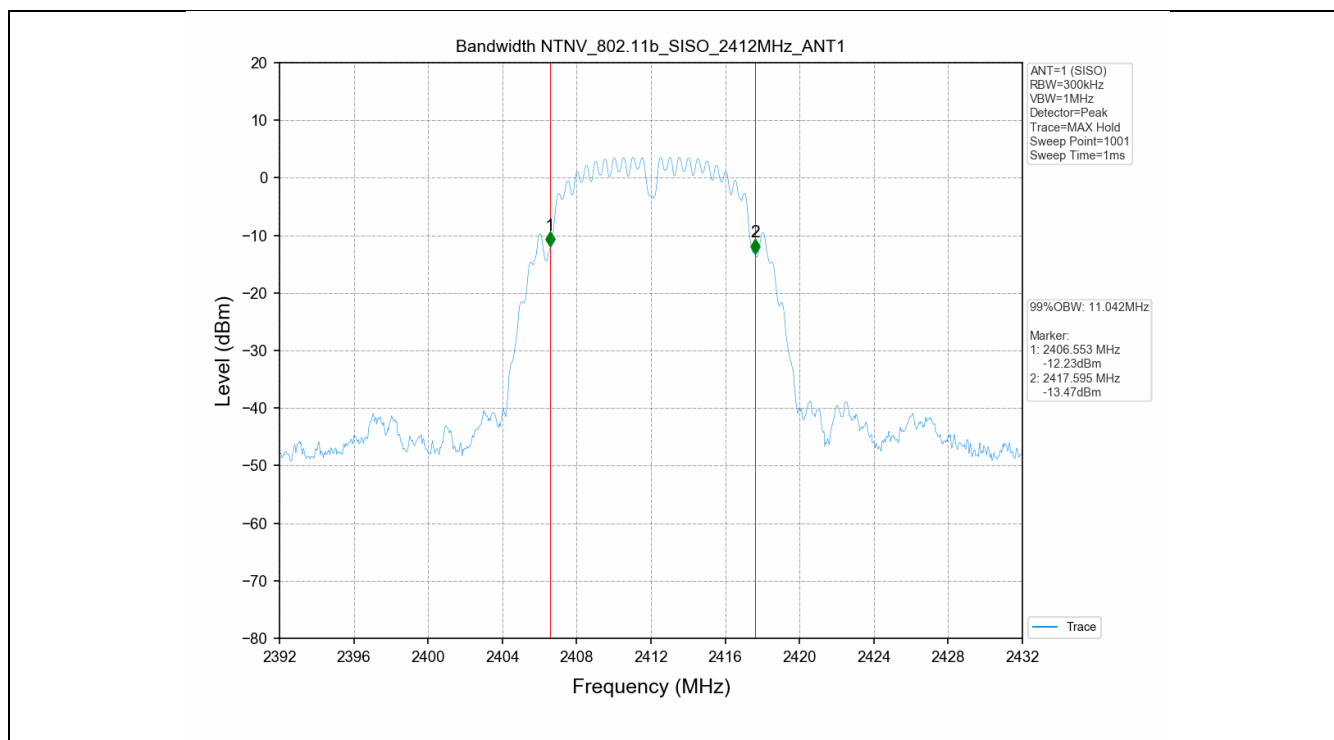


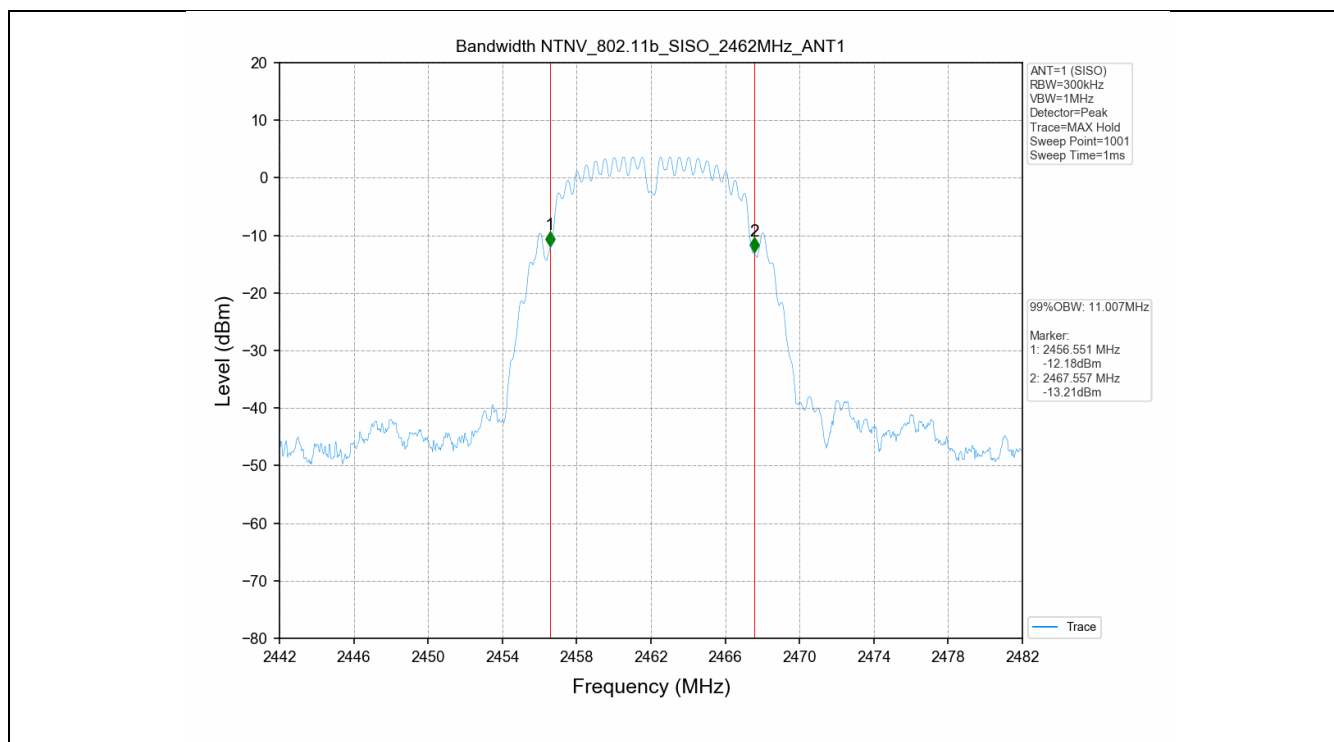
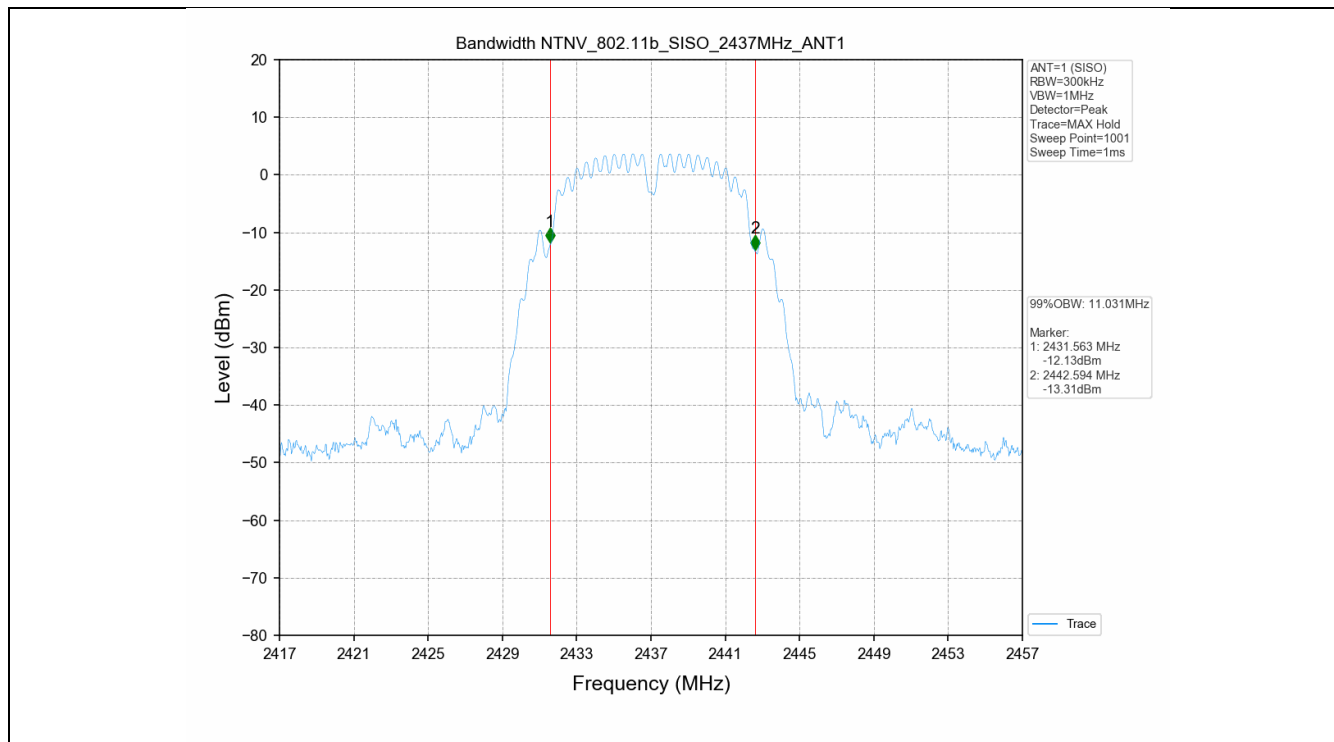


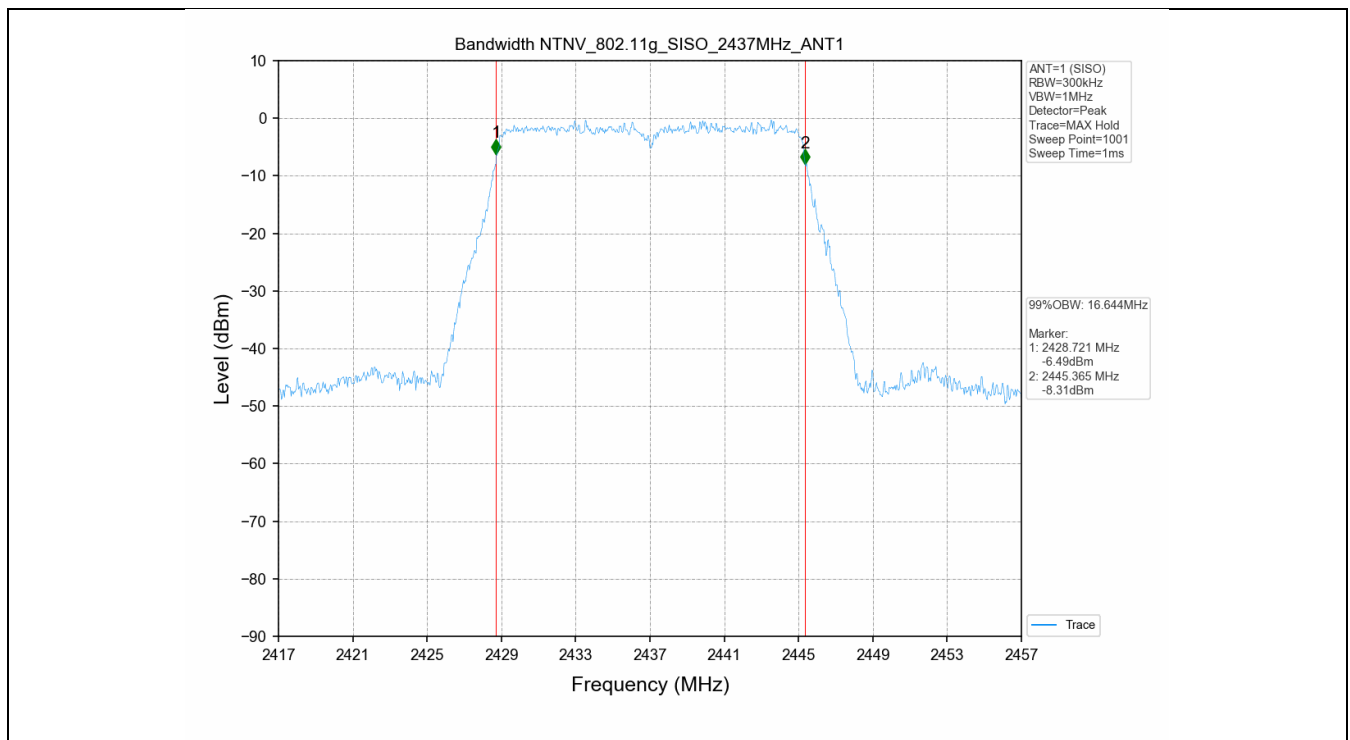
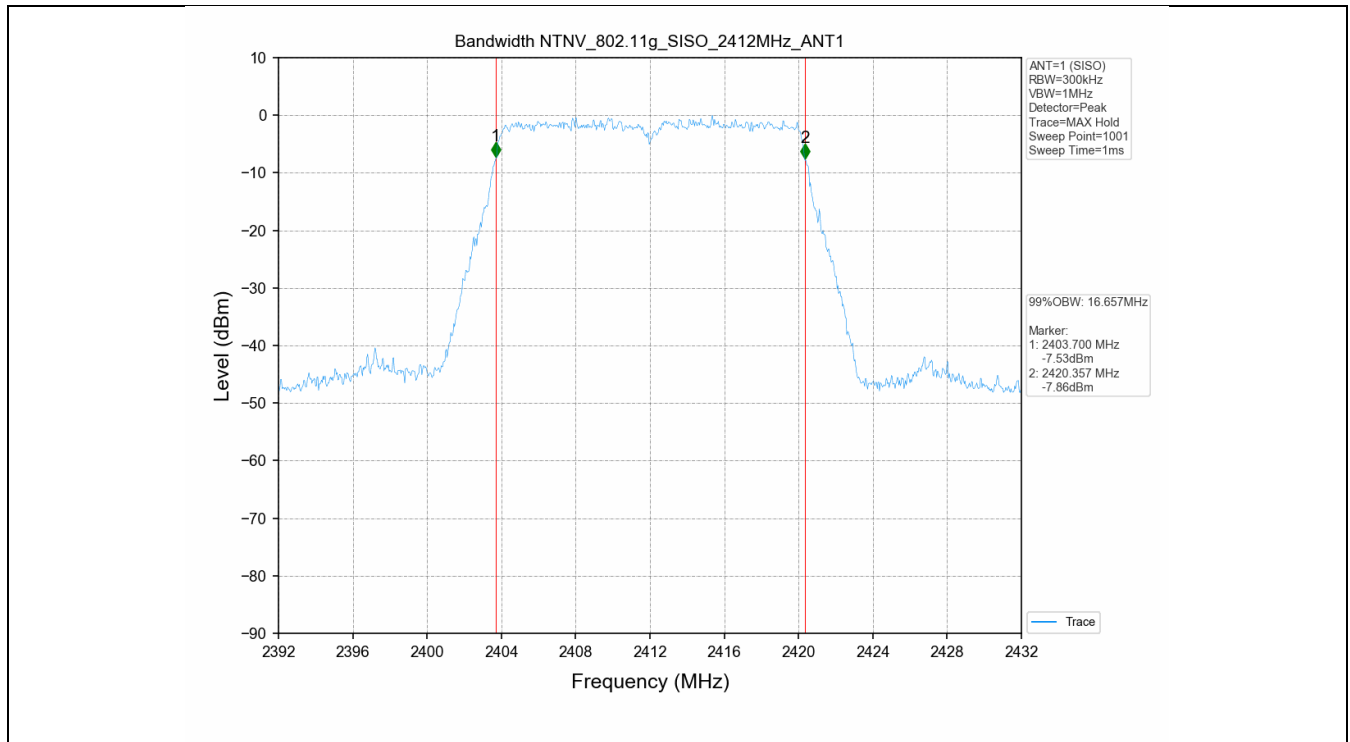


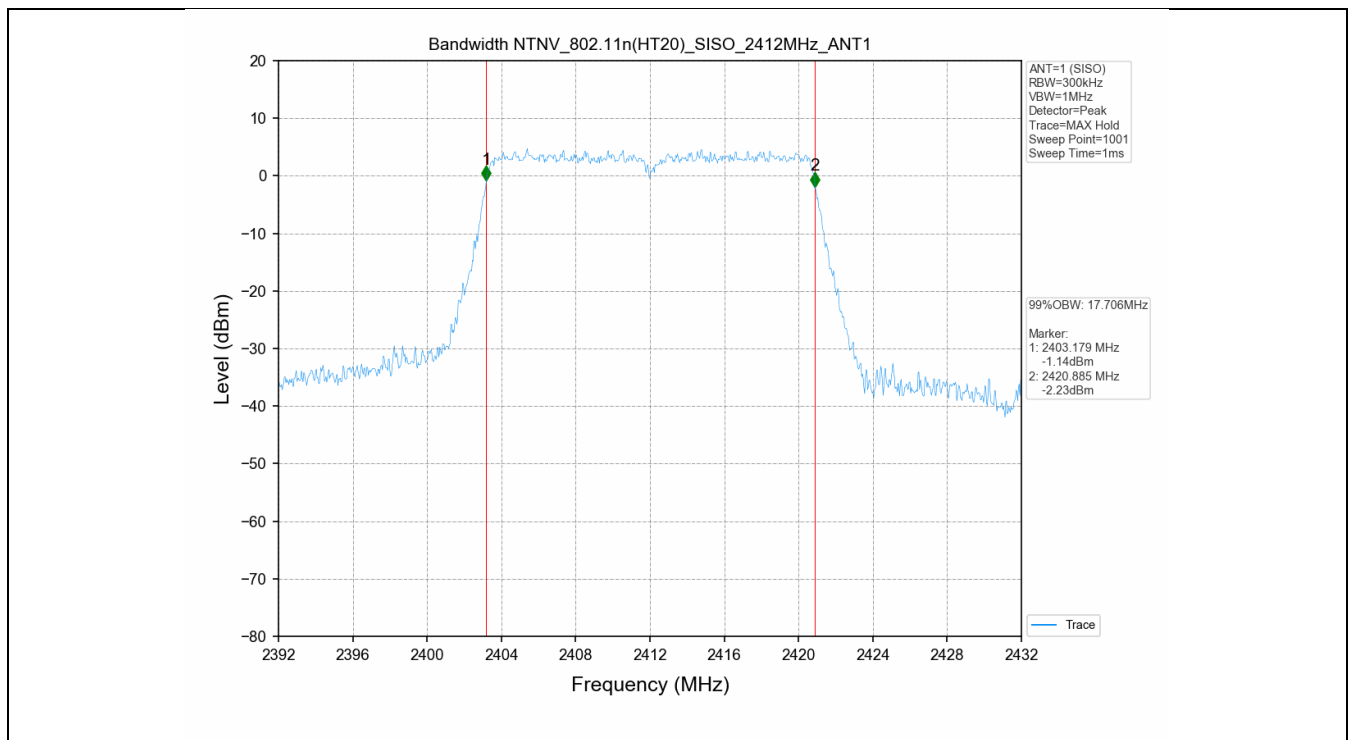
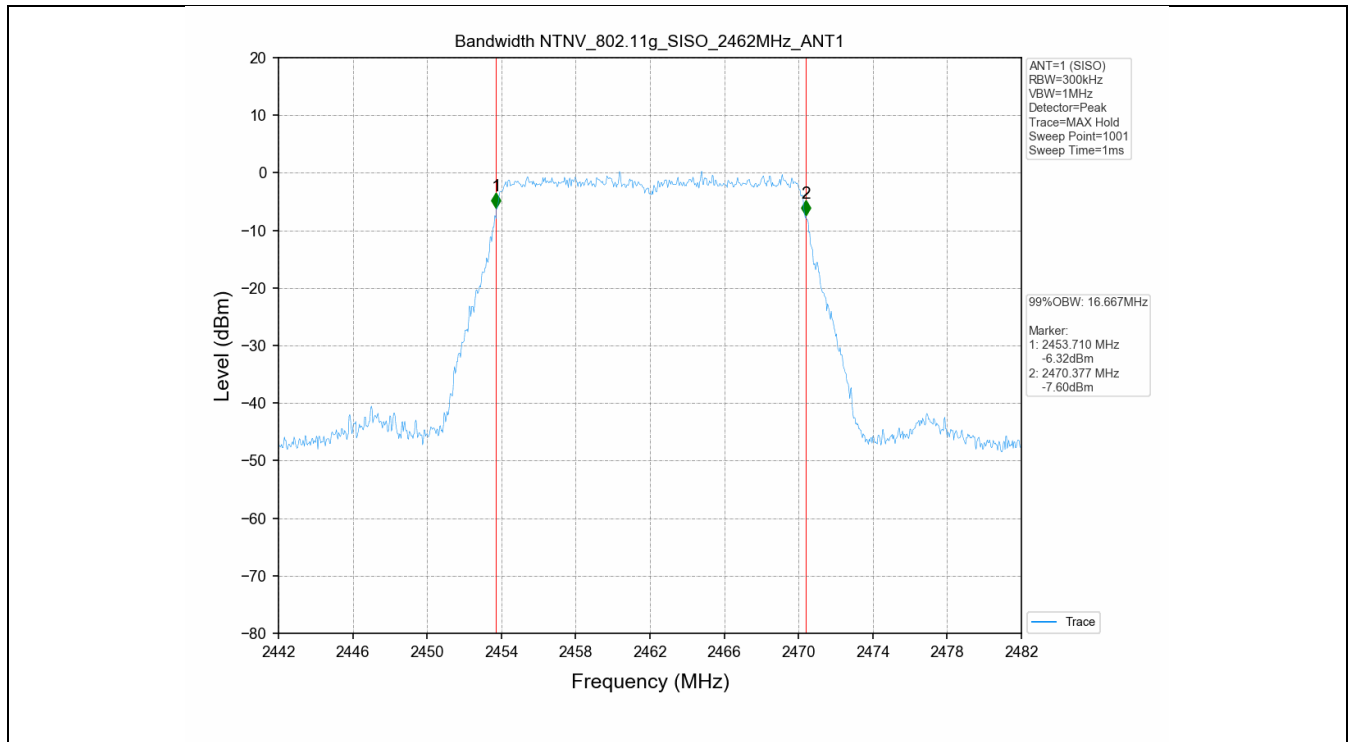


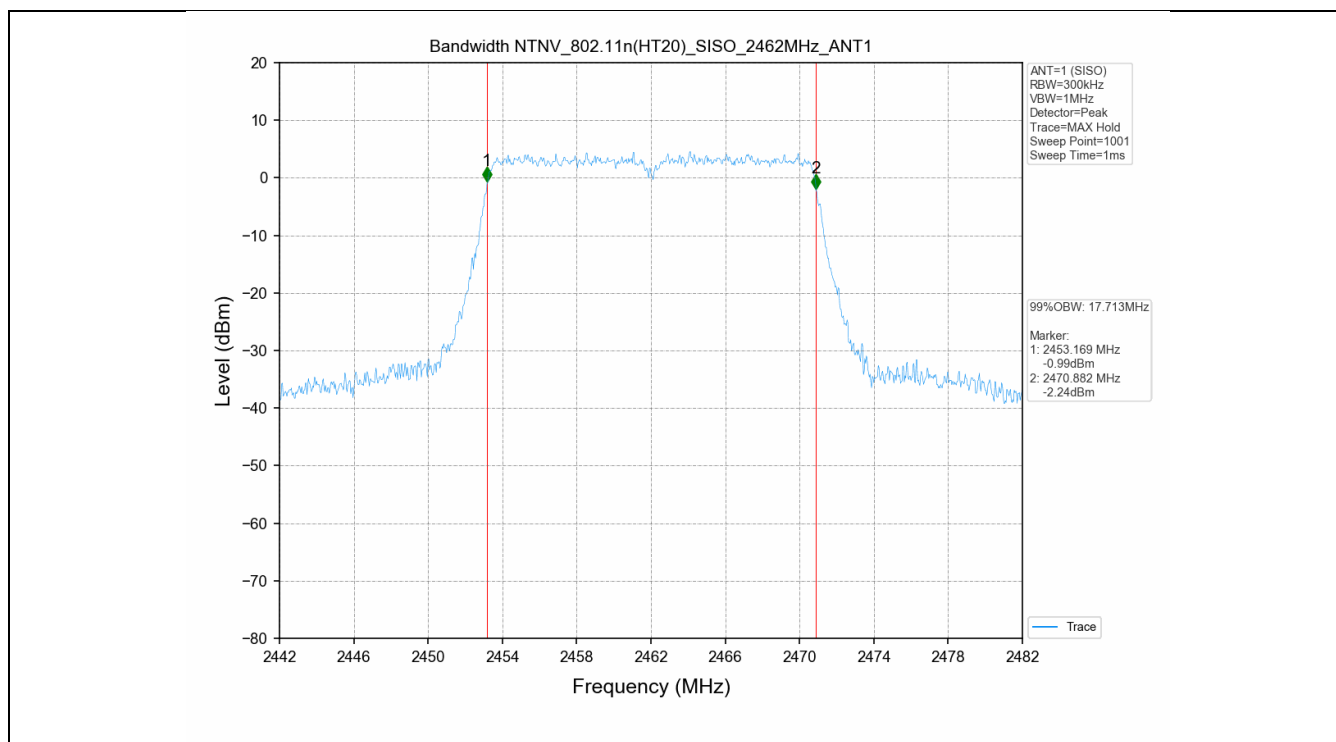
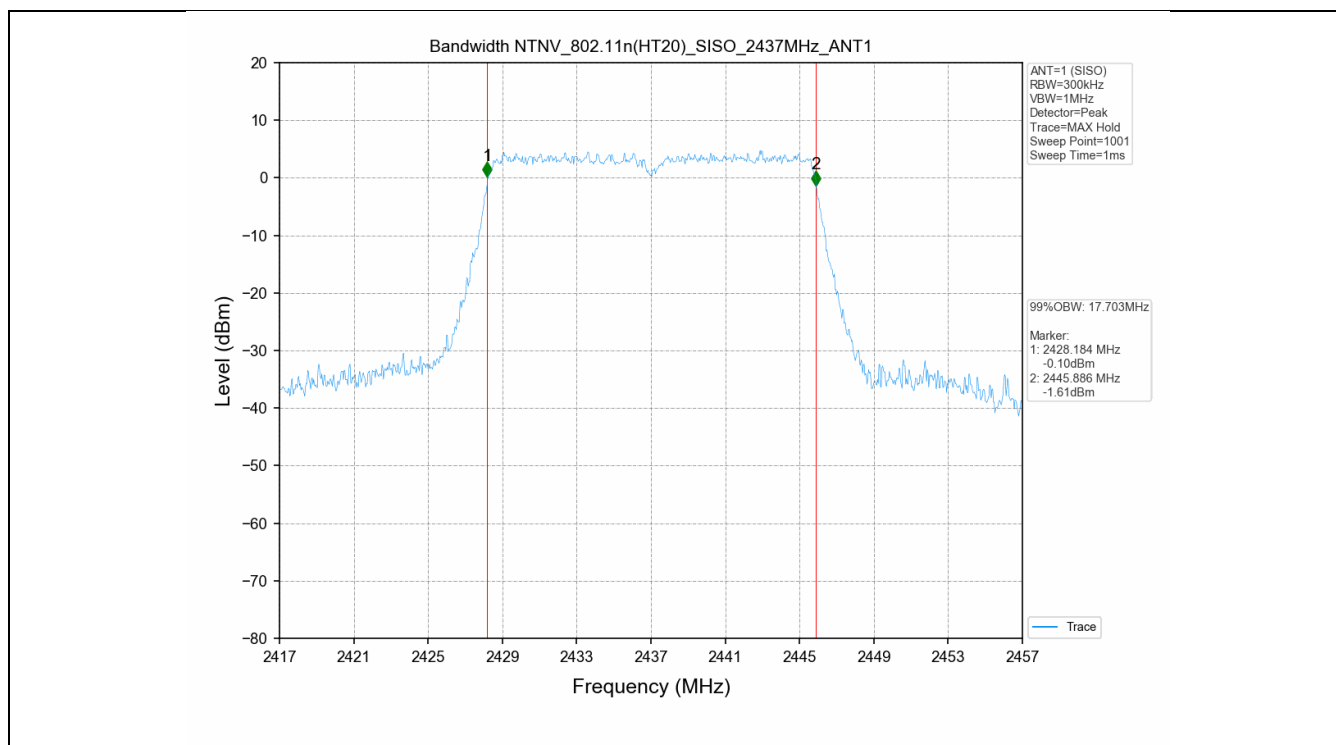
2.3 Test Graph - 99% Occupied Bandwidth

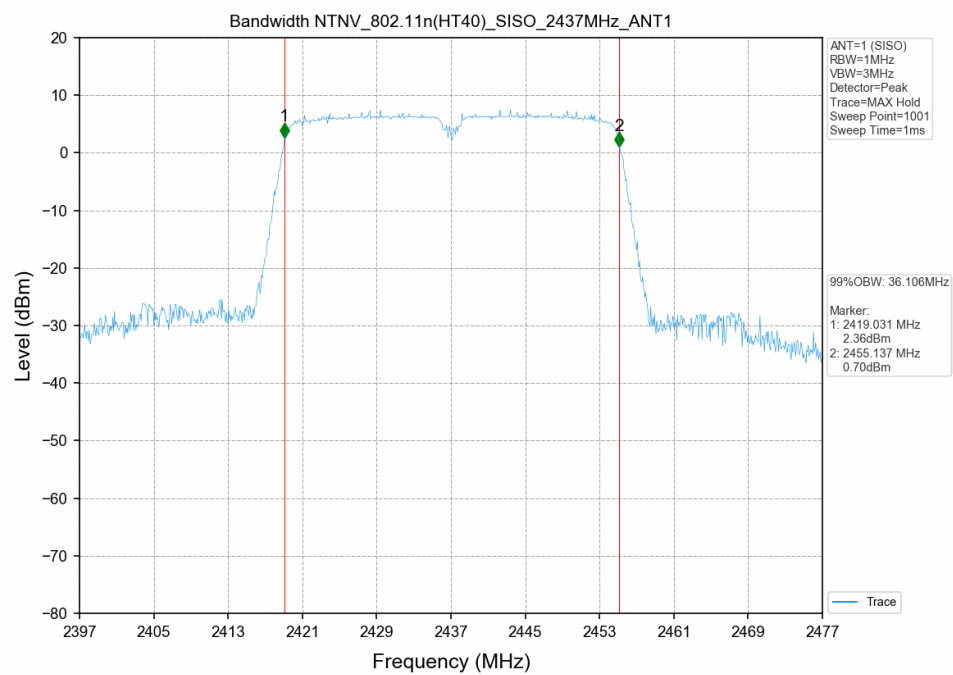
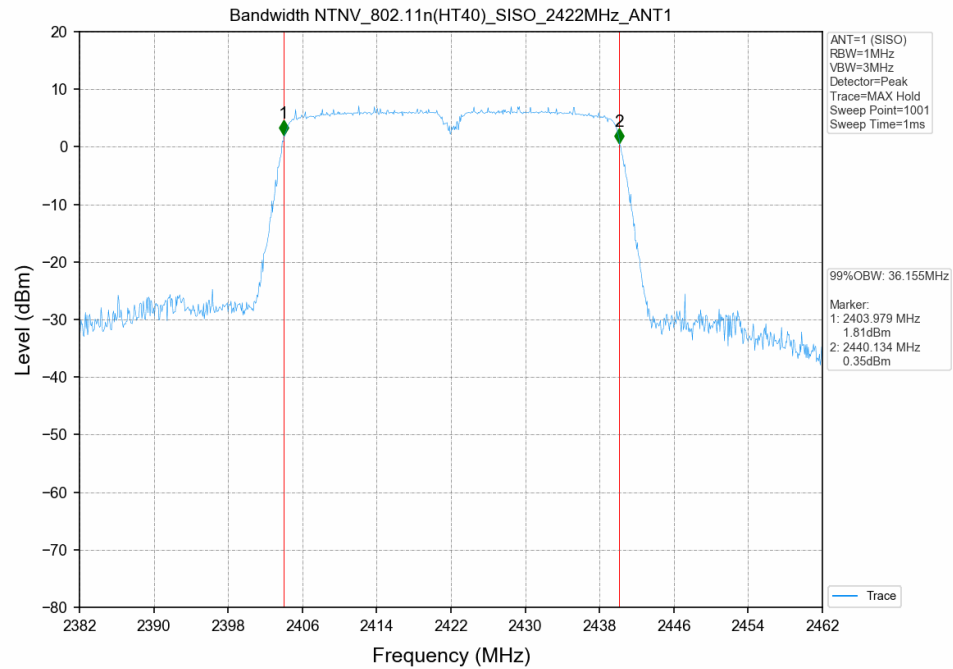


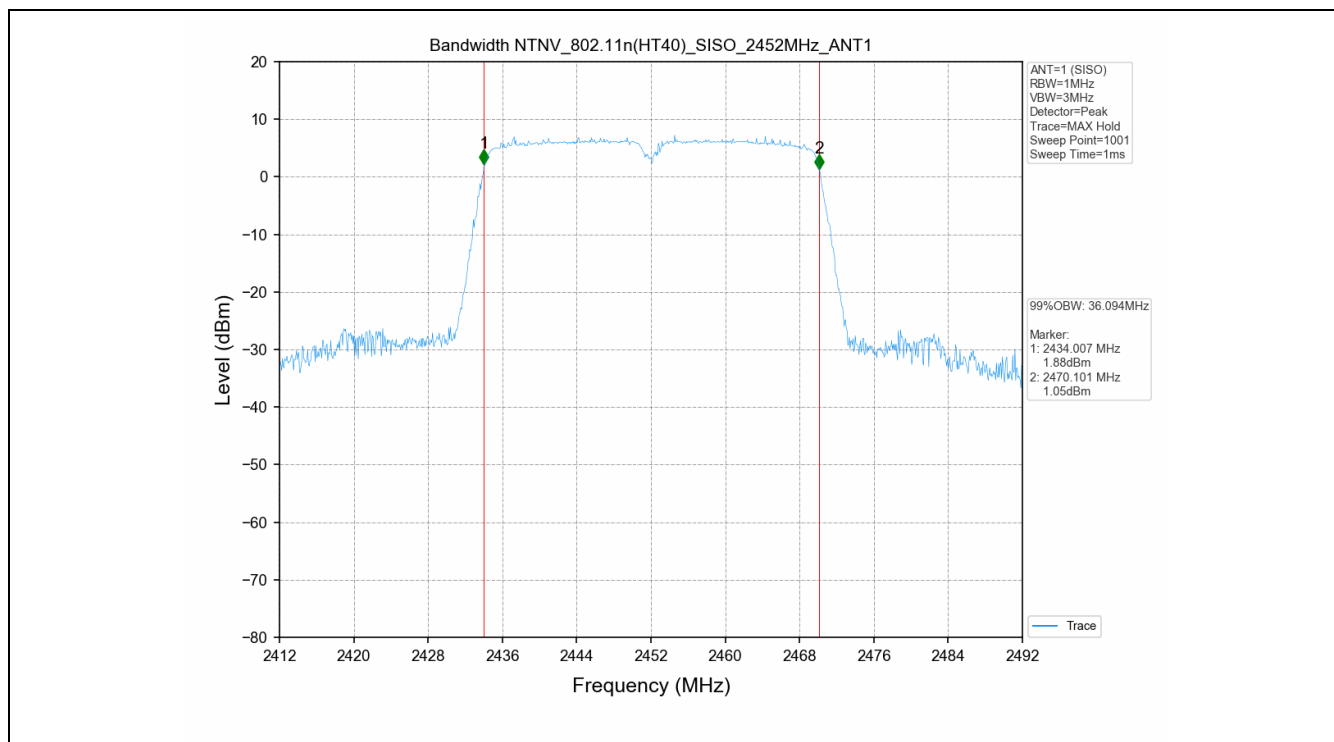










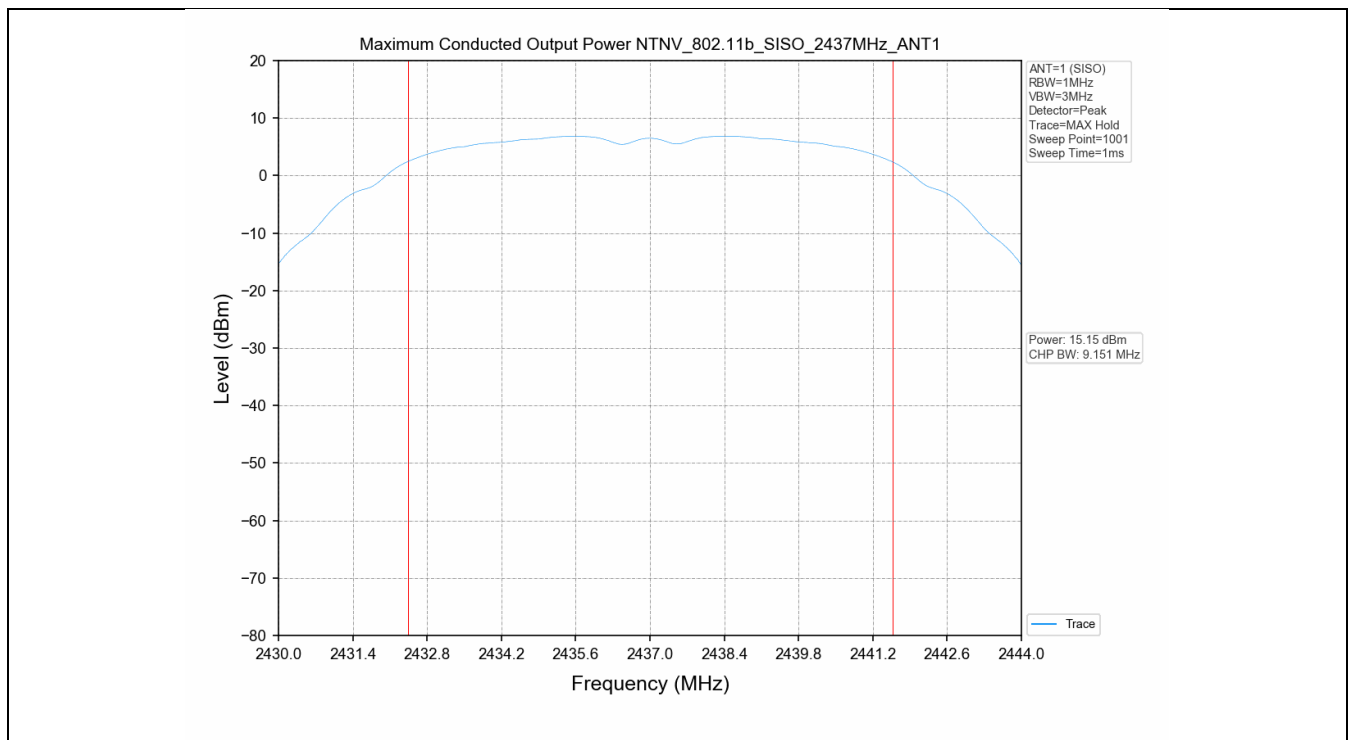
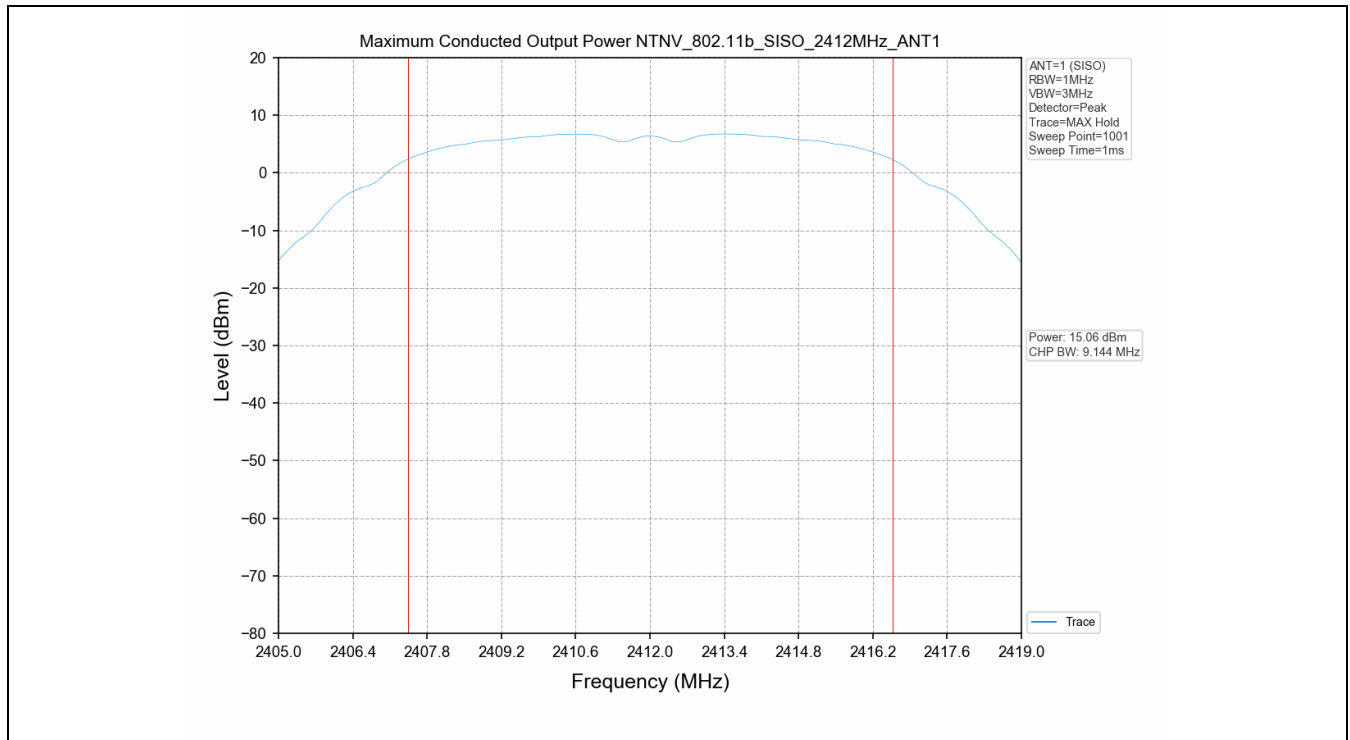


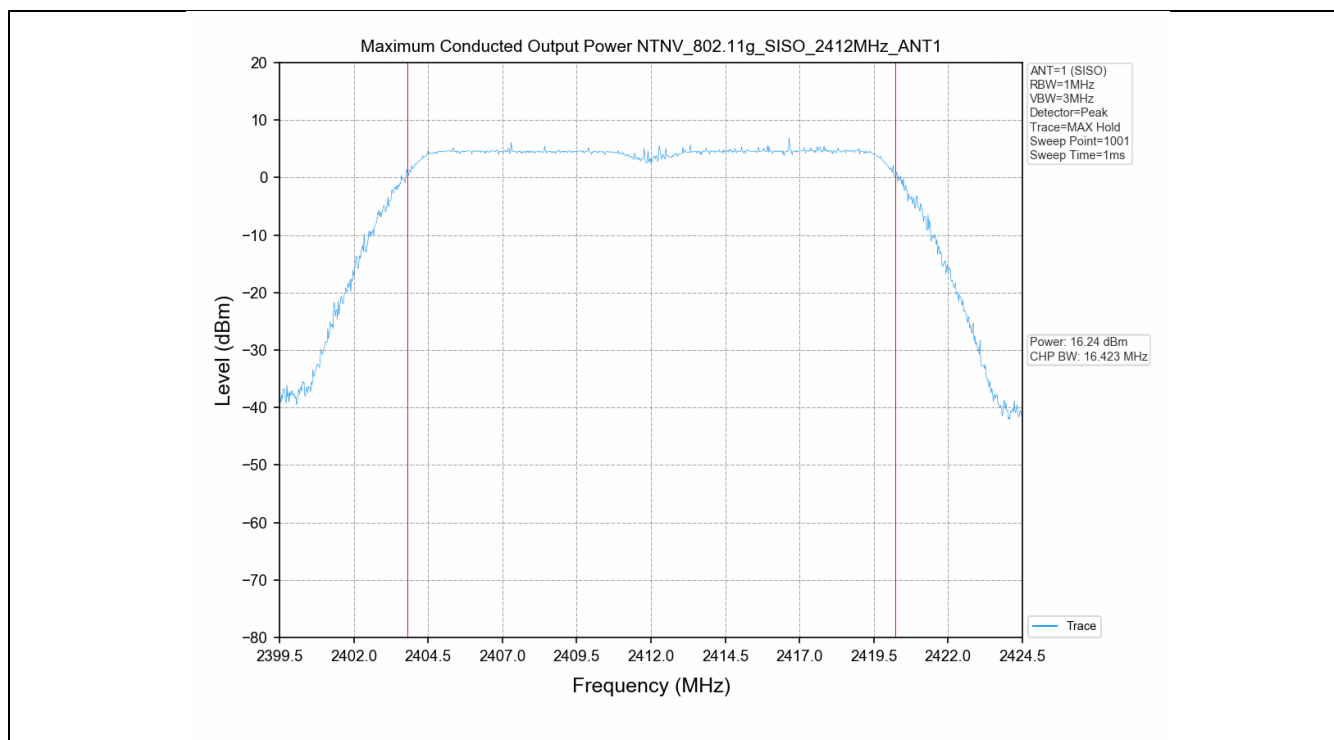
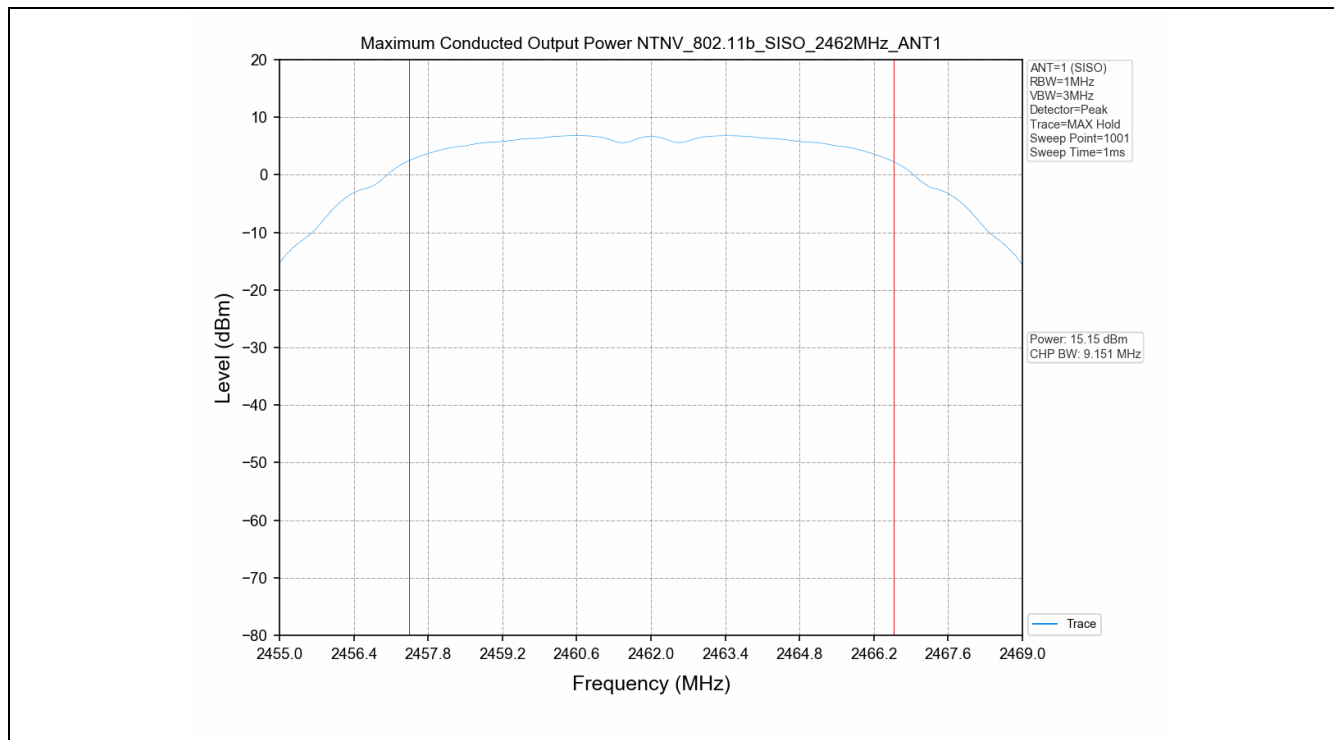
3. Maximum Conducted Output Power

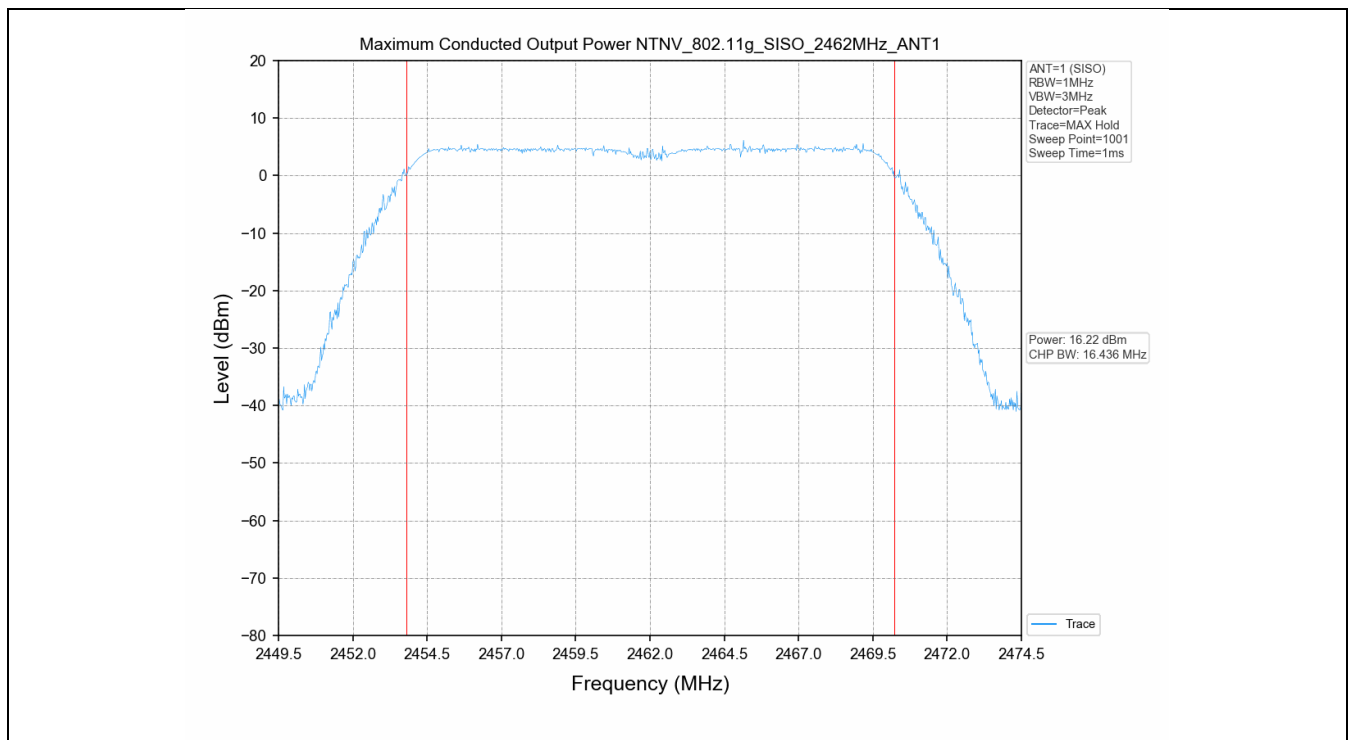
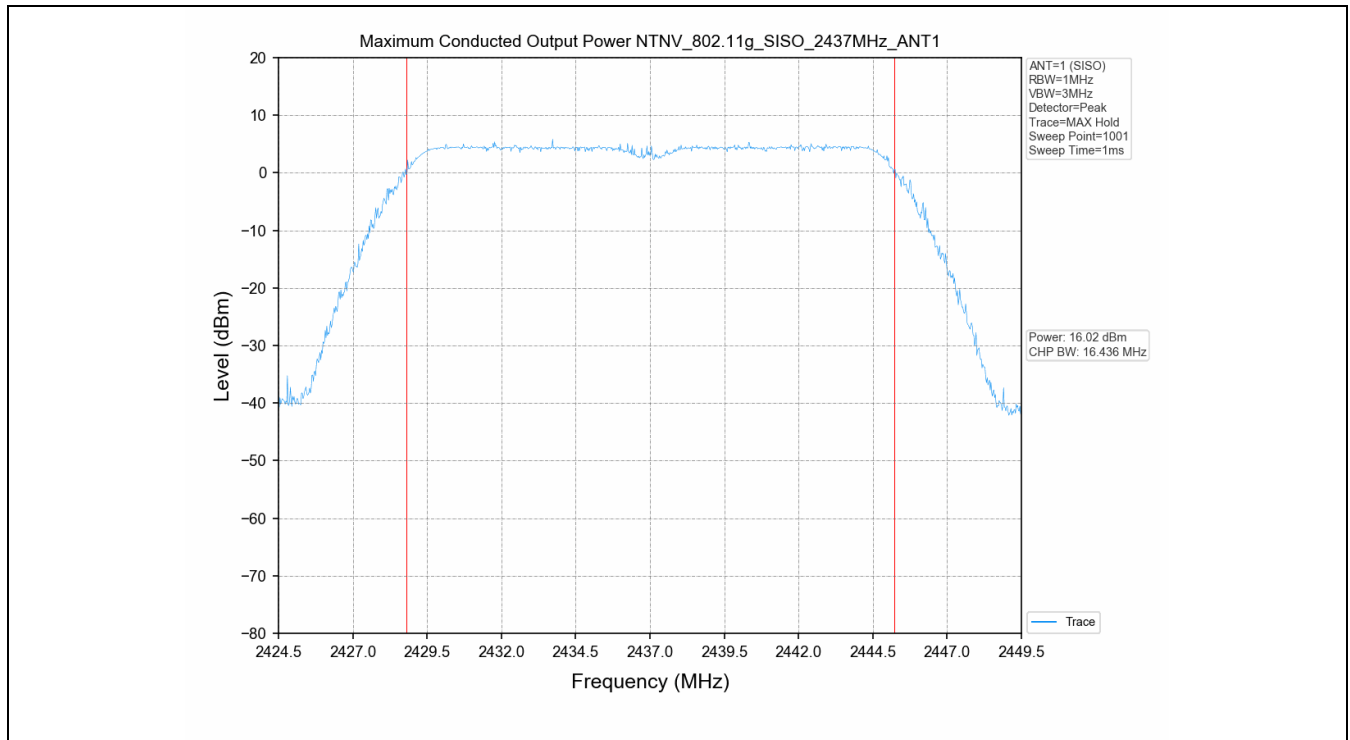
3.1 Test Result

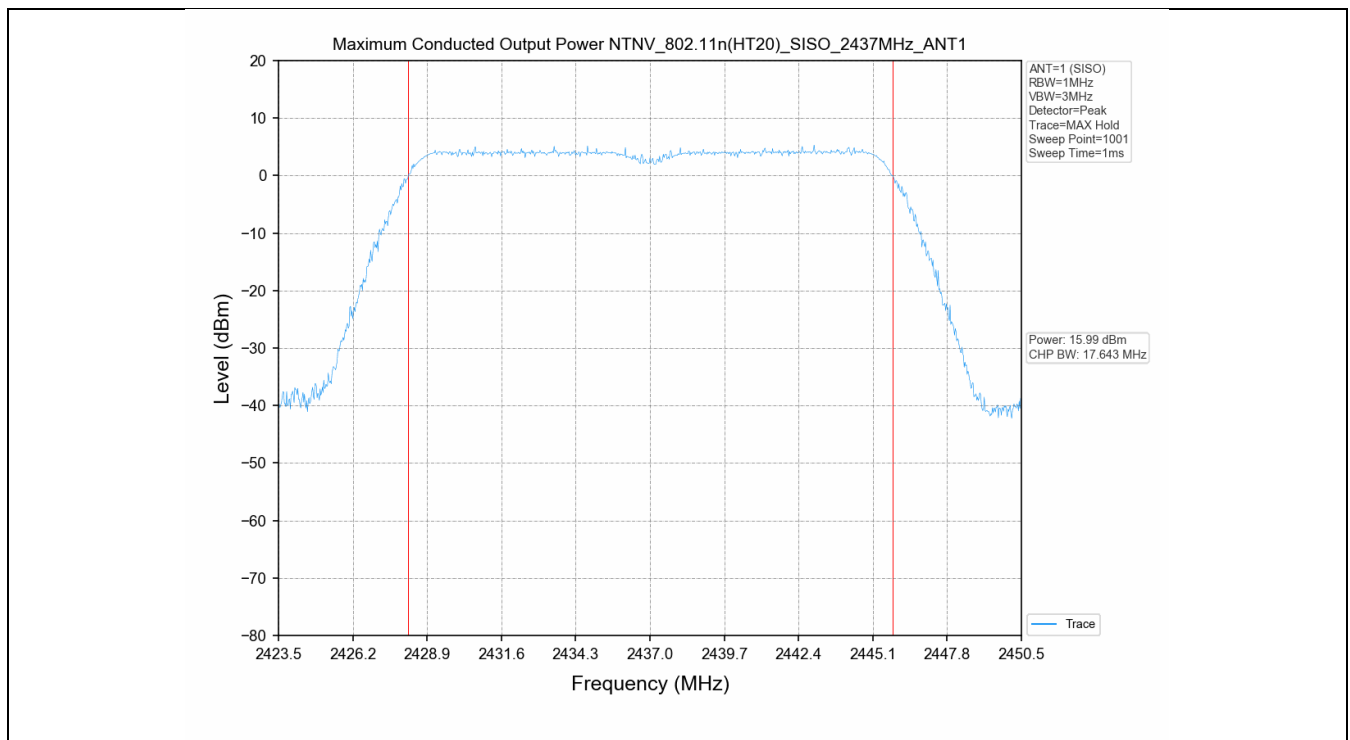
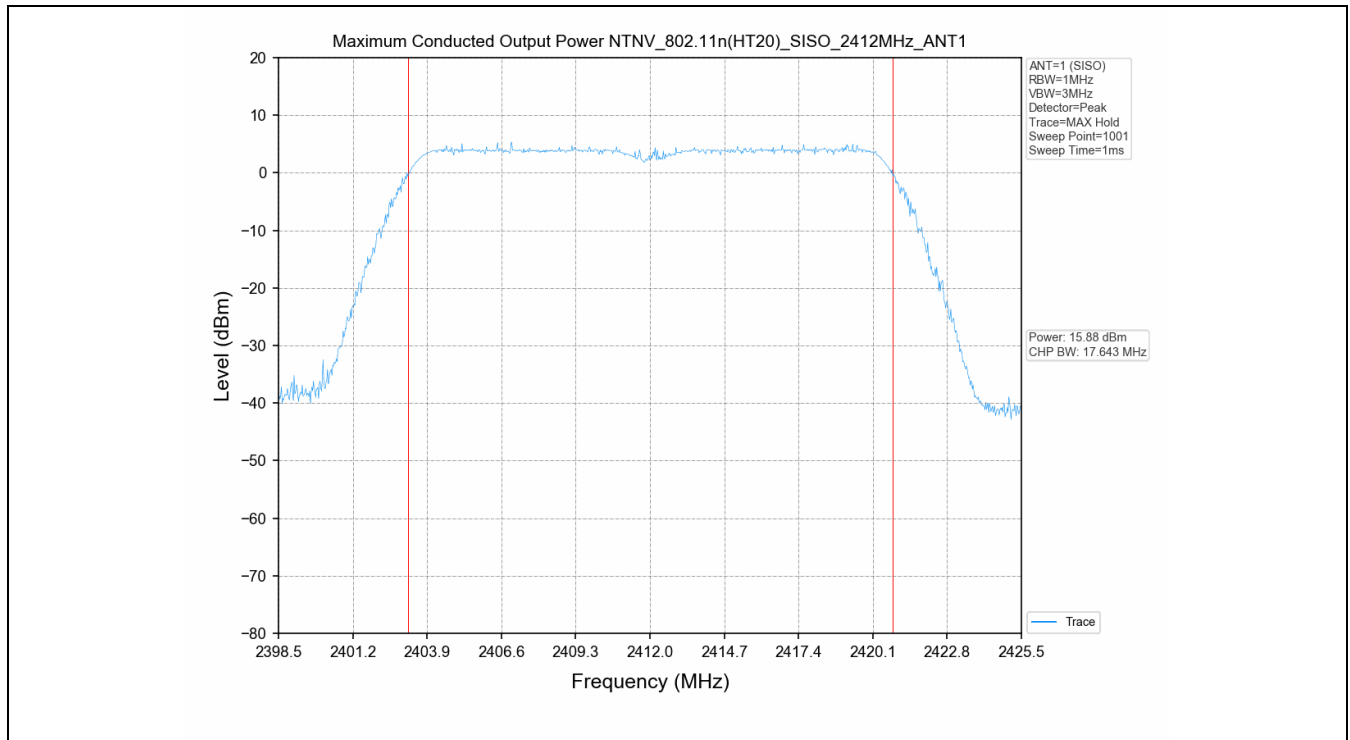
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	15.06	30	PASS
	2437	SISO	15.15	30	PASS
	2462	SISO	15.15	30	PASS
802.11g	2412	SISO	16.24	30	PASS
	2437	SISO	16.02	30	PASS
	2462	SISO	16.22	30	PASS
802.11n(HT20)	2412	SISO	15.88	30	PASS
	2437	SISO	15.99	30	PASS
	2462	SISO	16.44	30	PASS
802.11n(HT40)	2422	SISO	15.56	30	PASS
	2437	SISO	15.79	30	PASS
	2452	SISO	15.47	30	PASS

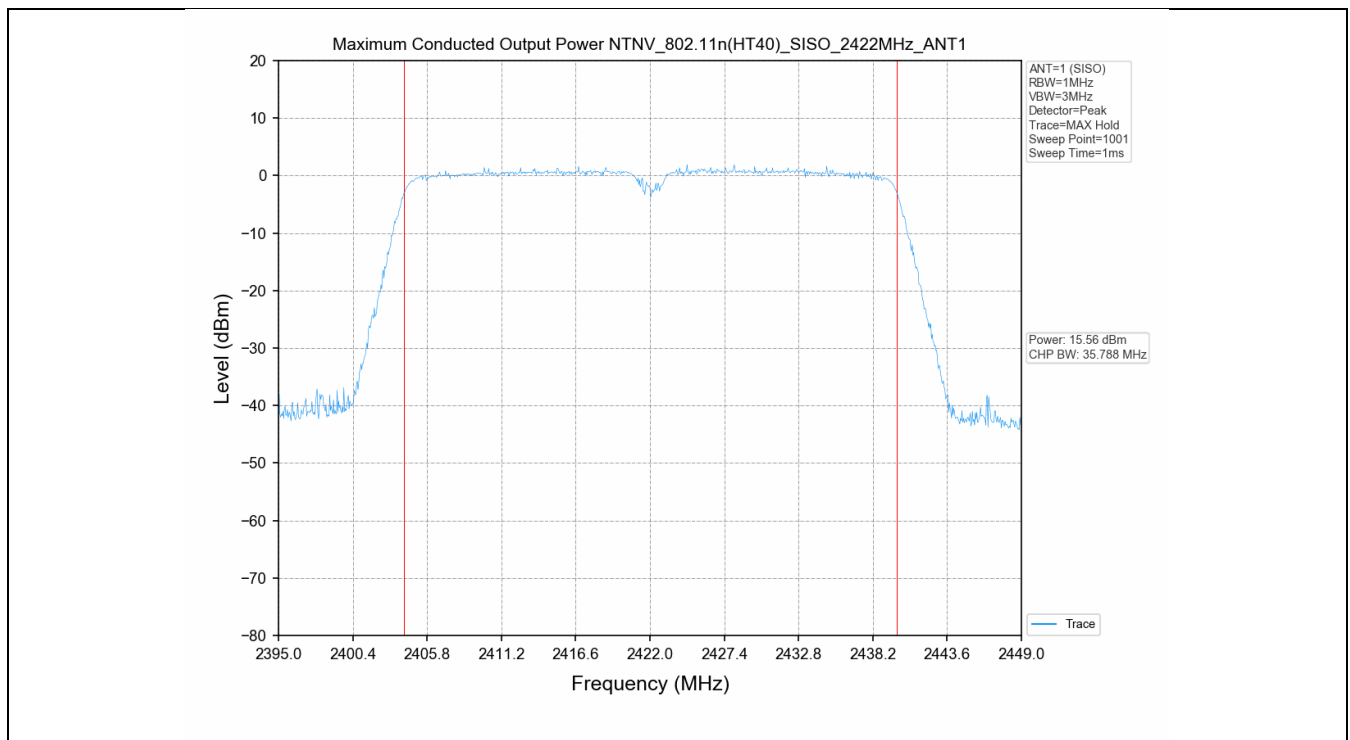
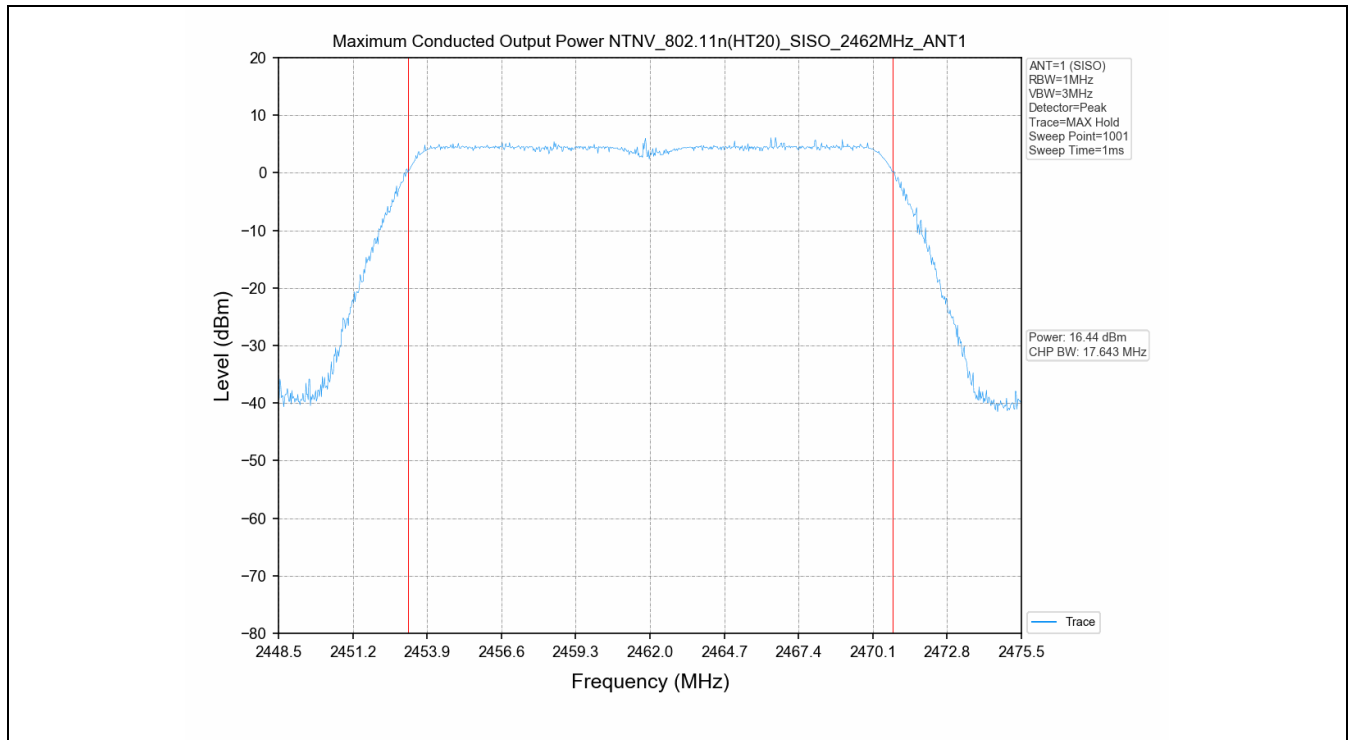
3.2 Test Graph

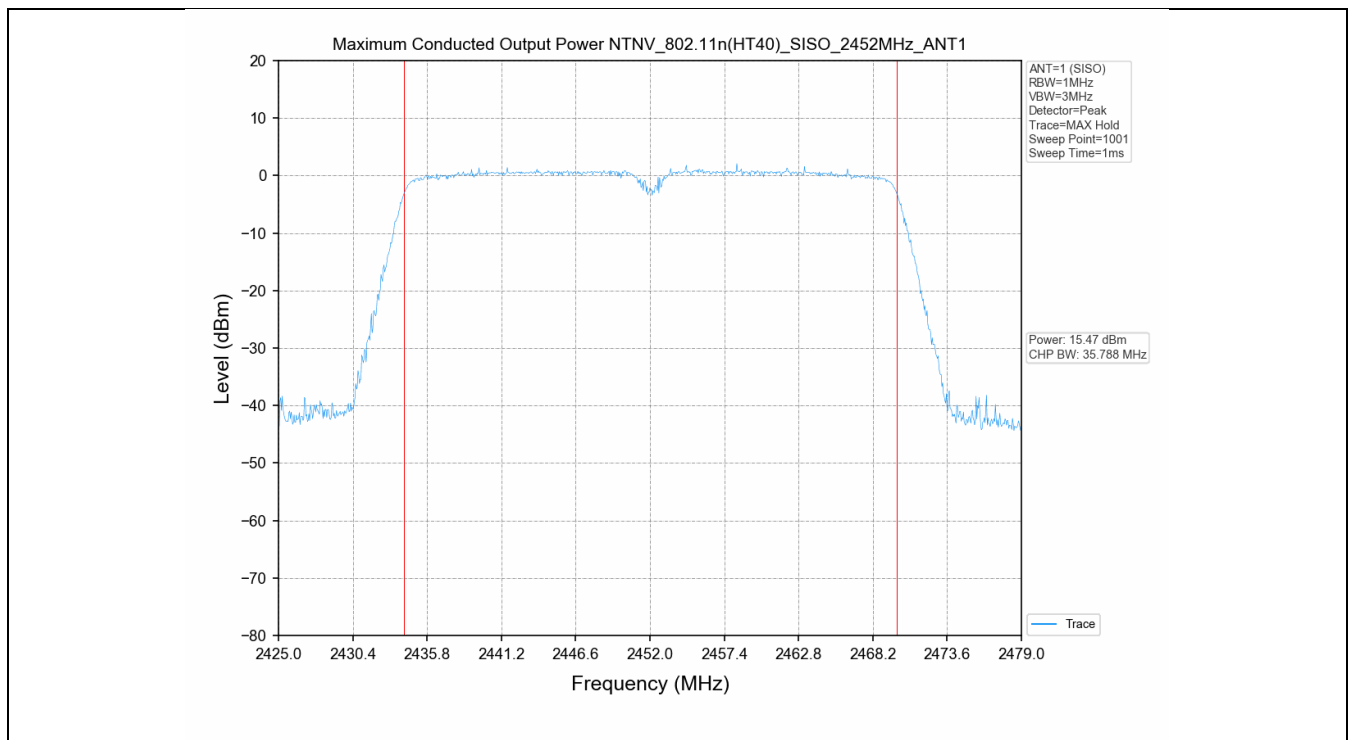
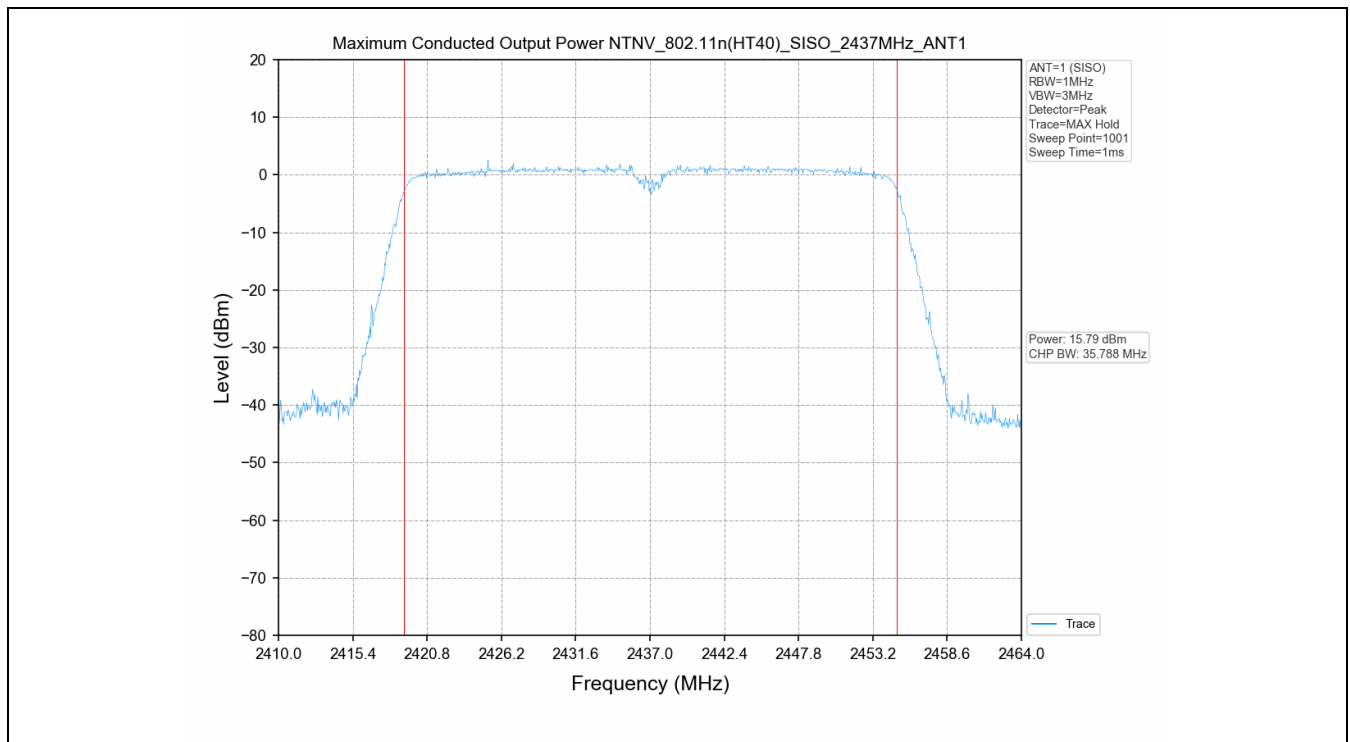










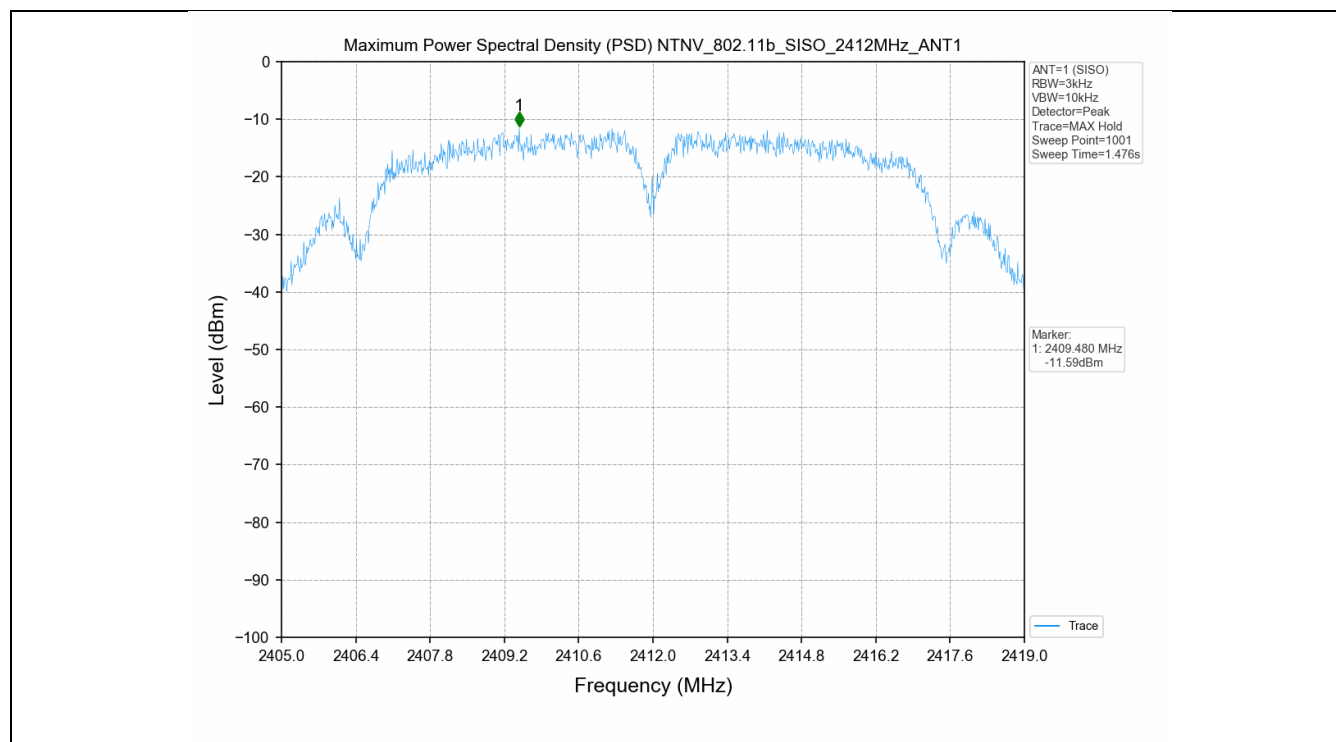


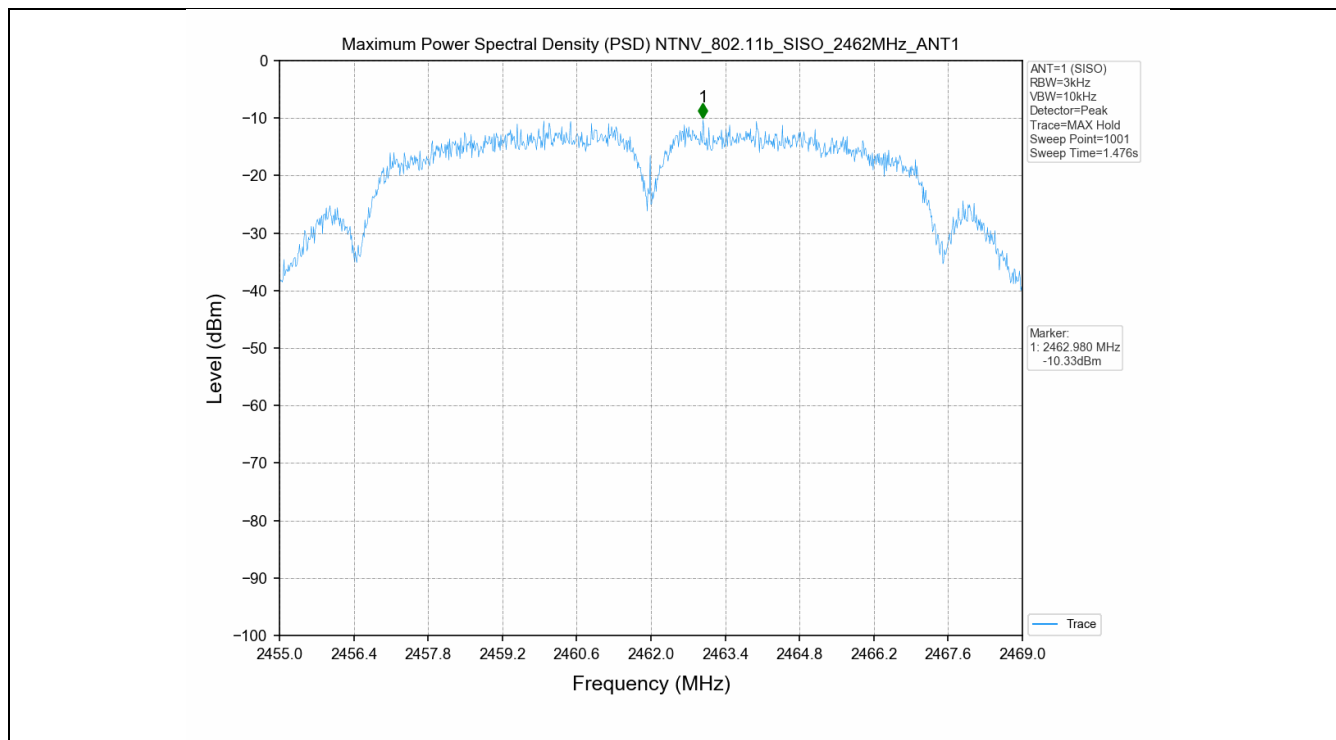
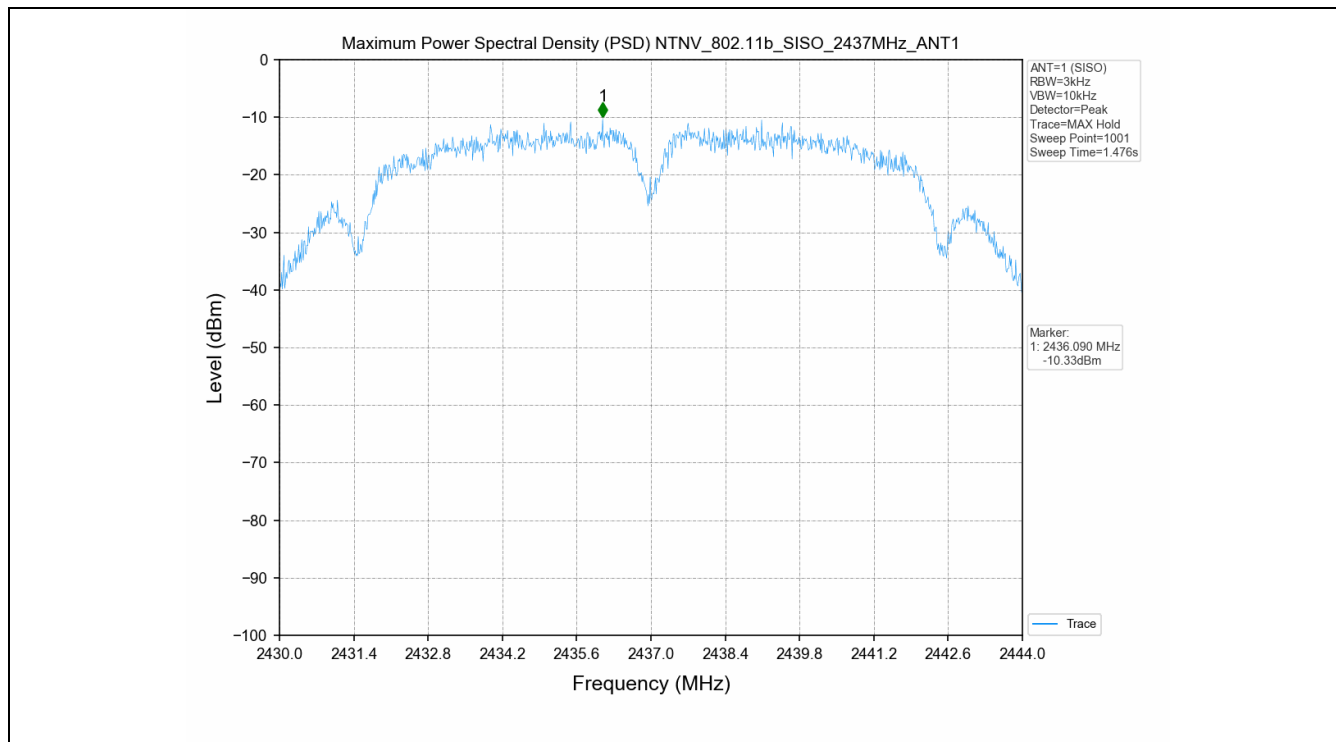
4. Maximum Power Spectral Density (PSD)

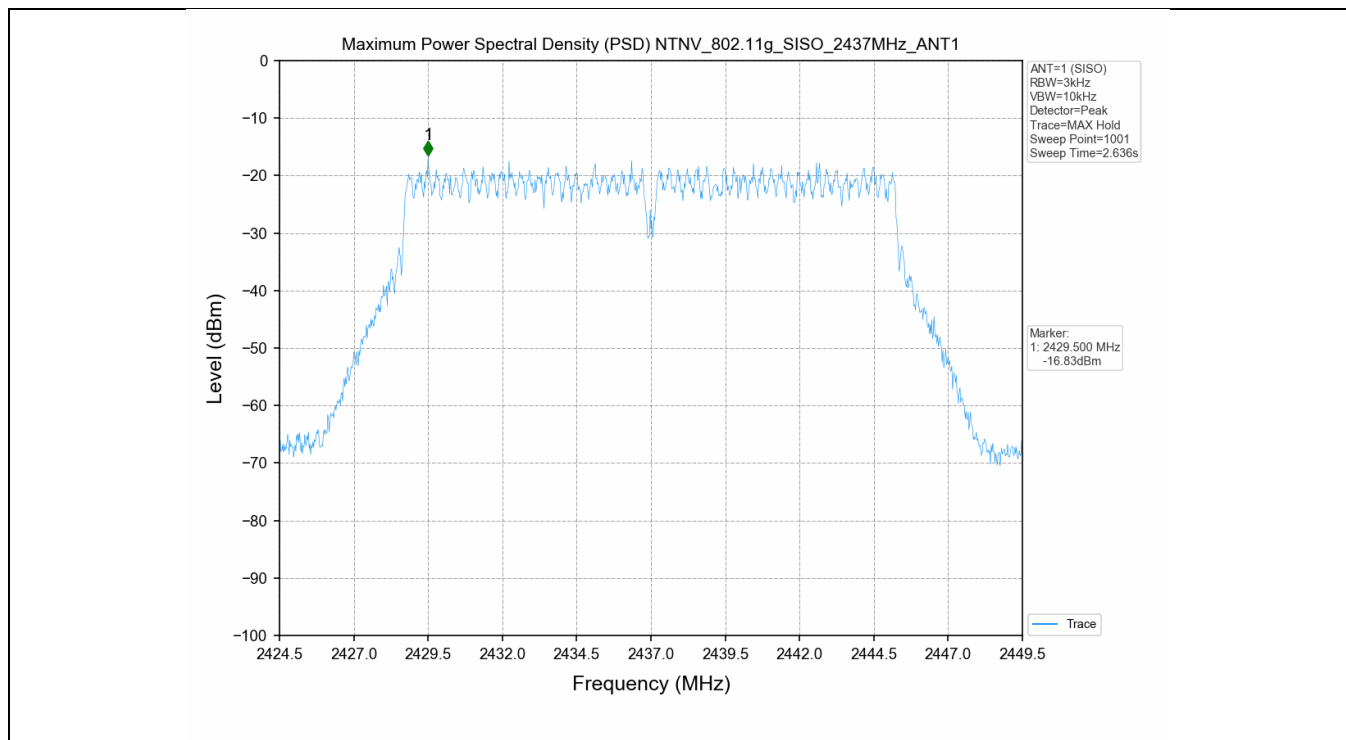
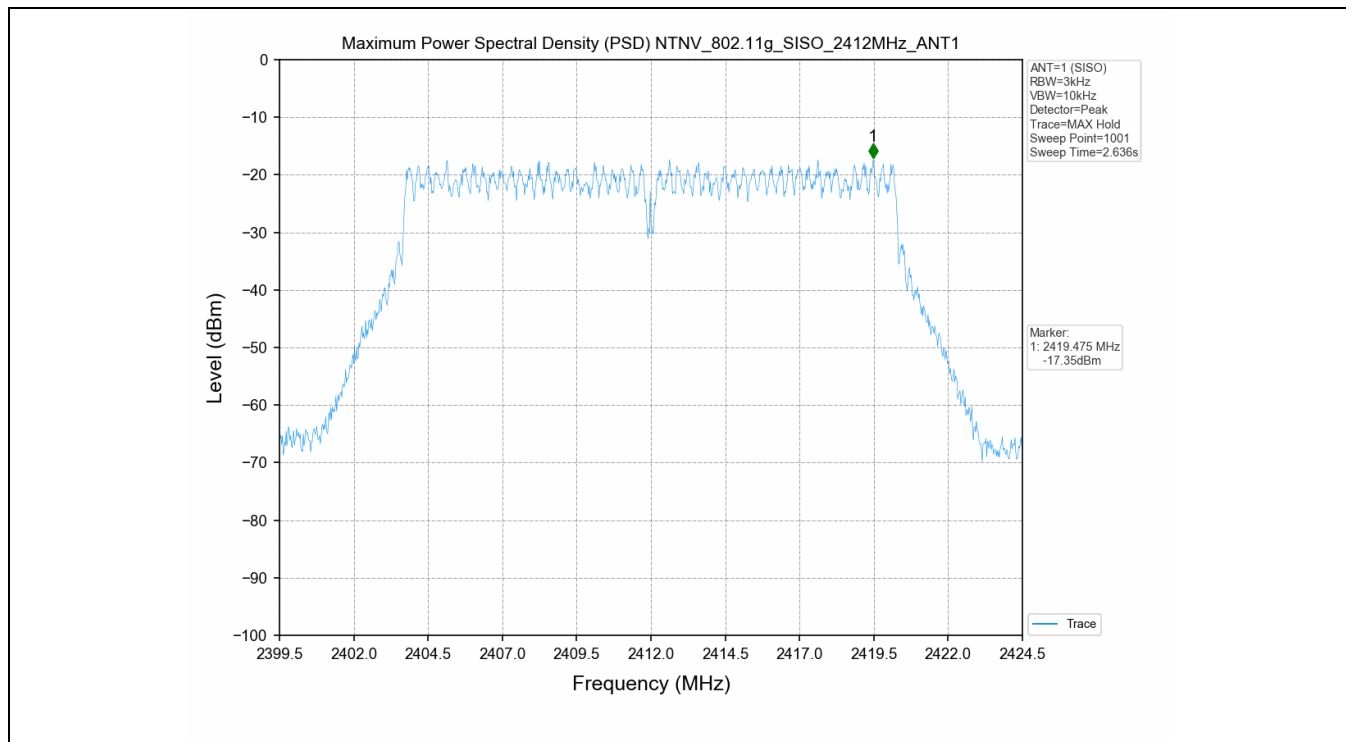
4.1 Test Result

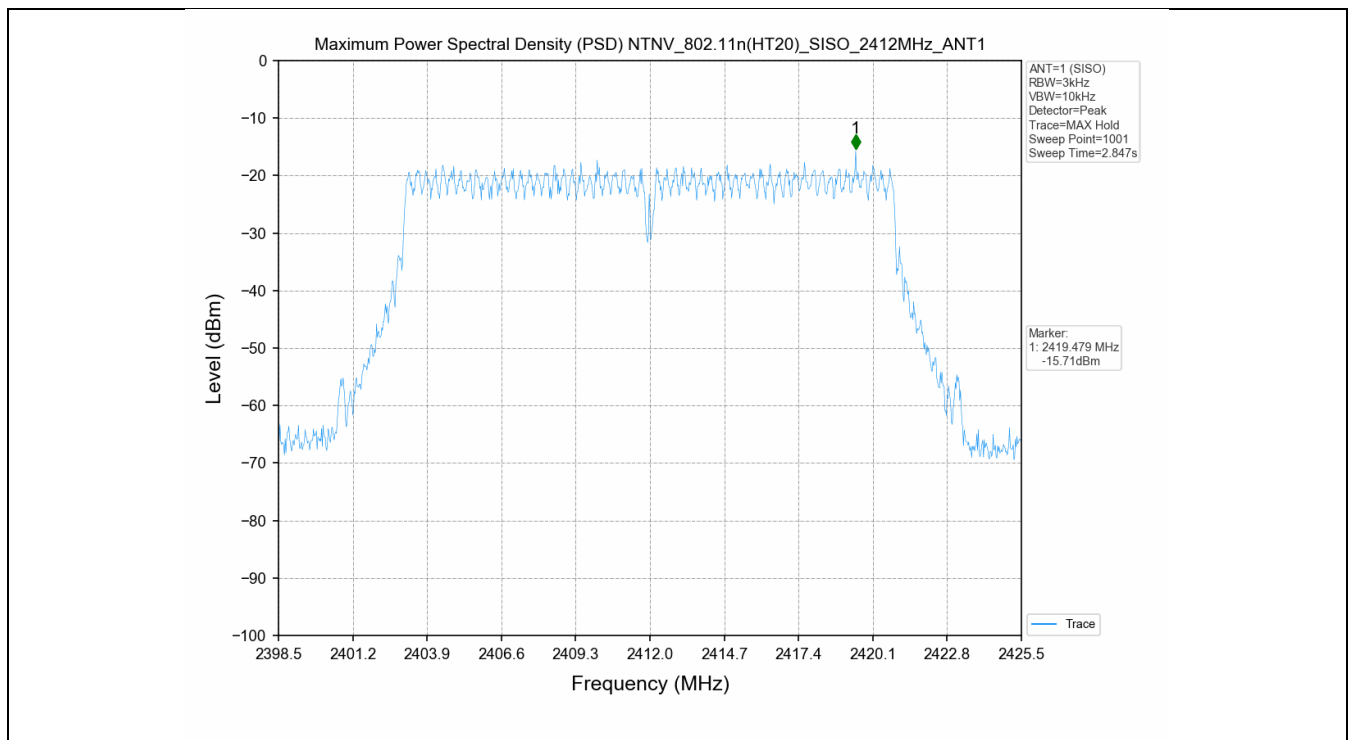
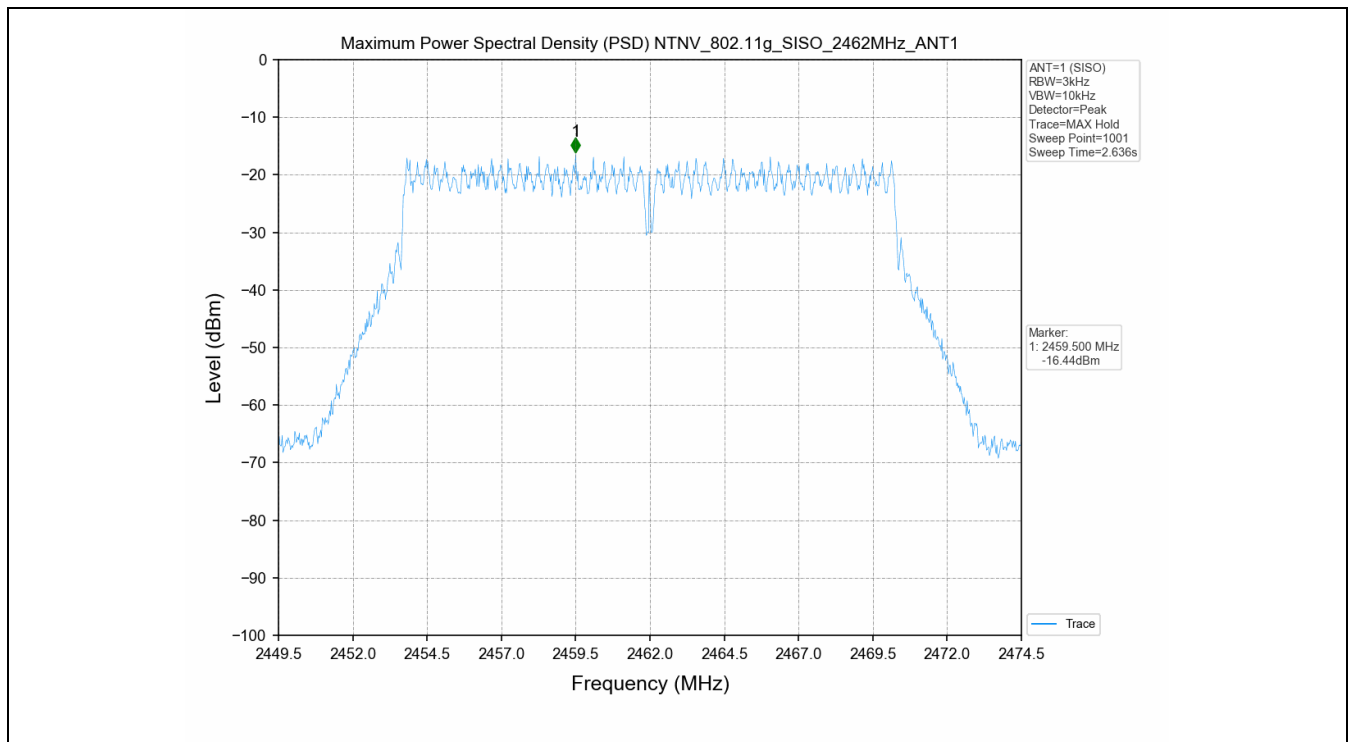
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-11.59	≤8	PASS
	2437	SISO	-10.33	≤8	PASS
	2462	SISO	-10.33	≤8	PASS
802.11g	2412	SISO	-17.35	≤8	PASS
	2437	SISO	-16.83	≤8	PASS
	2462	SISO	-16.44	≤8	PASS
802.11n(HT20)	2412	SISO	-15.71	≤8	PASS
	2437	SISO	-16.58	≤8	PASS
	2462	SISO	-16.00	≤8	PASS
802.11n(HT40)	2422	SISO	-20.43	≤8	PASS
	2437	SISO	-18.99	≤8	PASS
	2452	SISO	-19.98	≤8	PASS

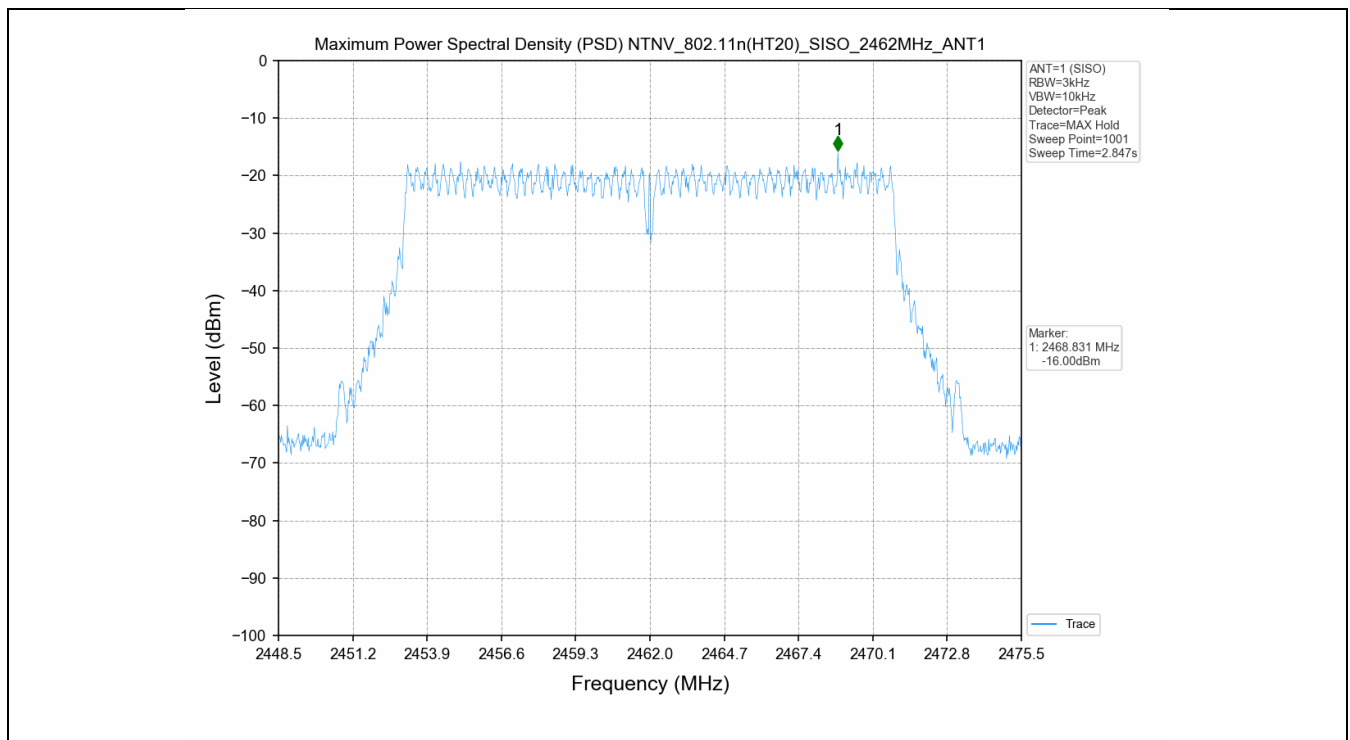
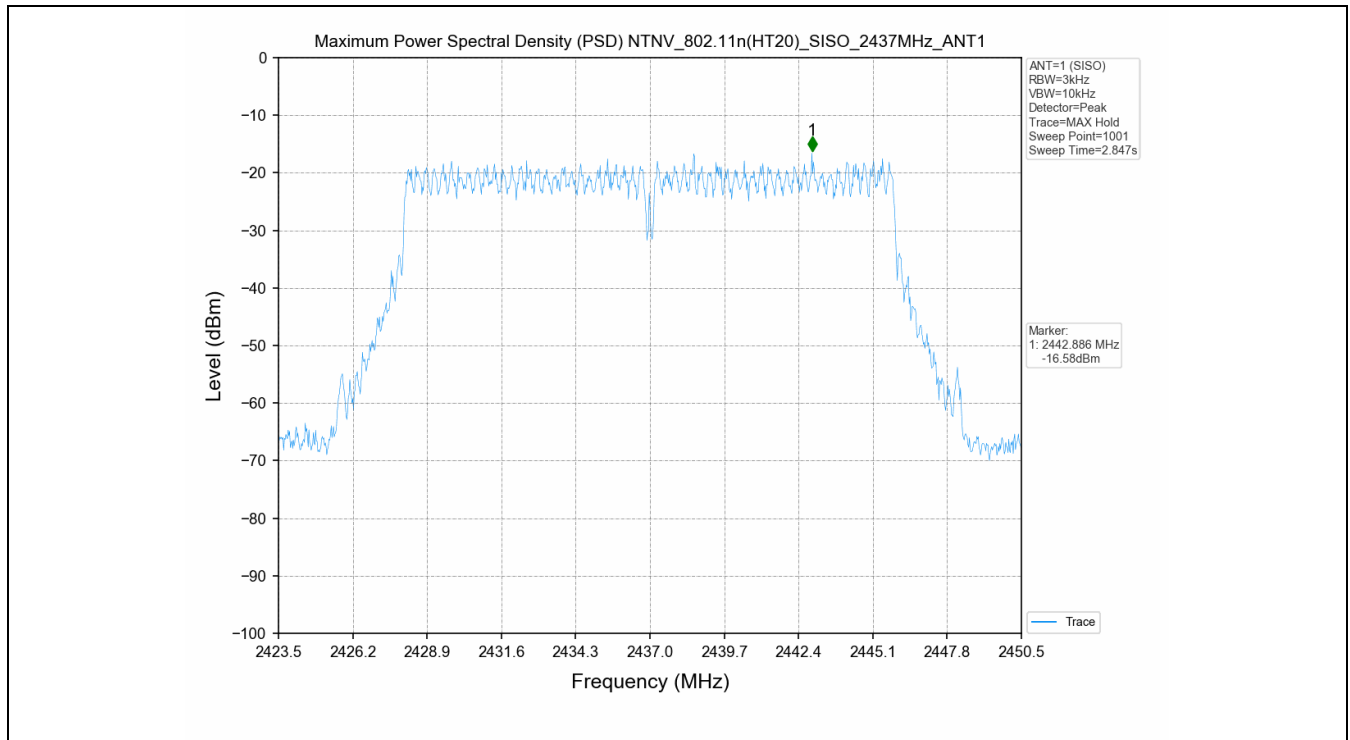
4.2 Test Graph

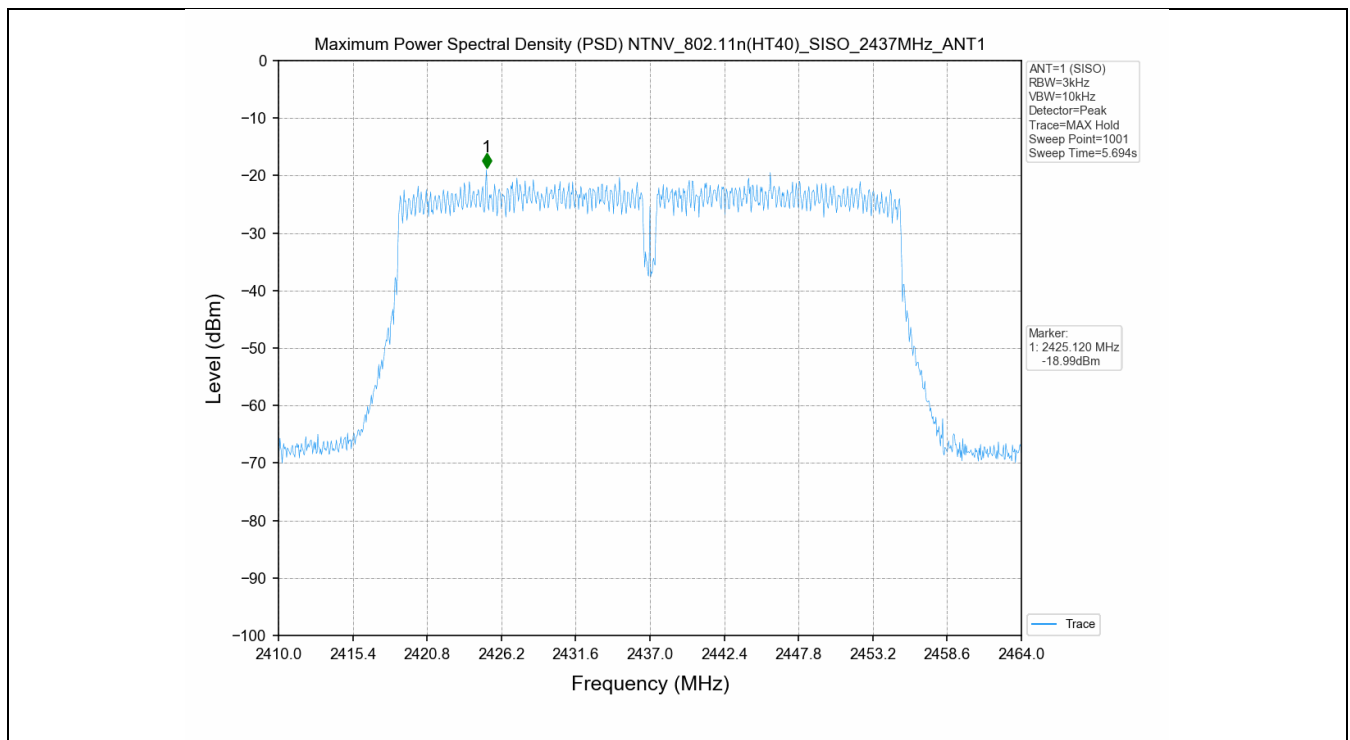
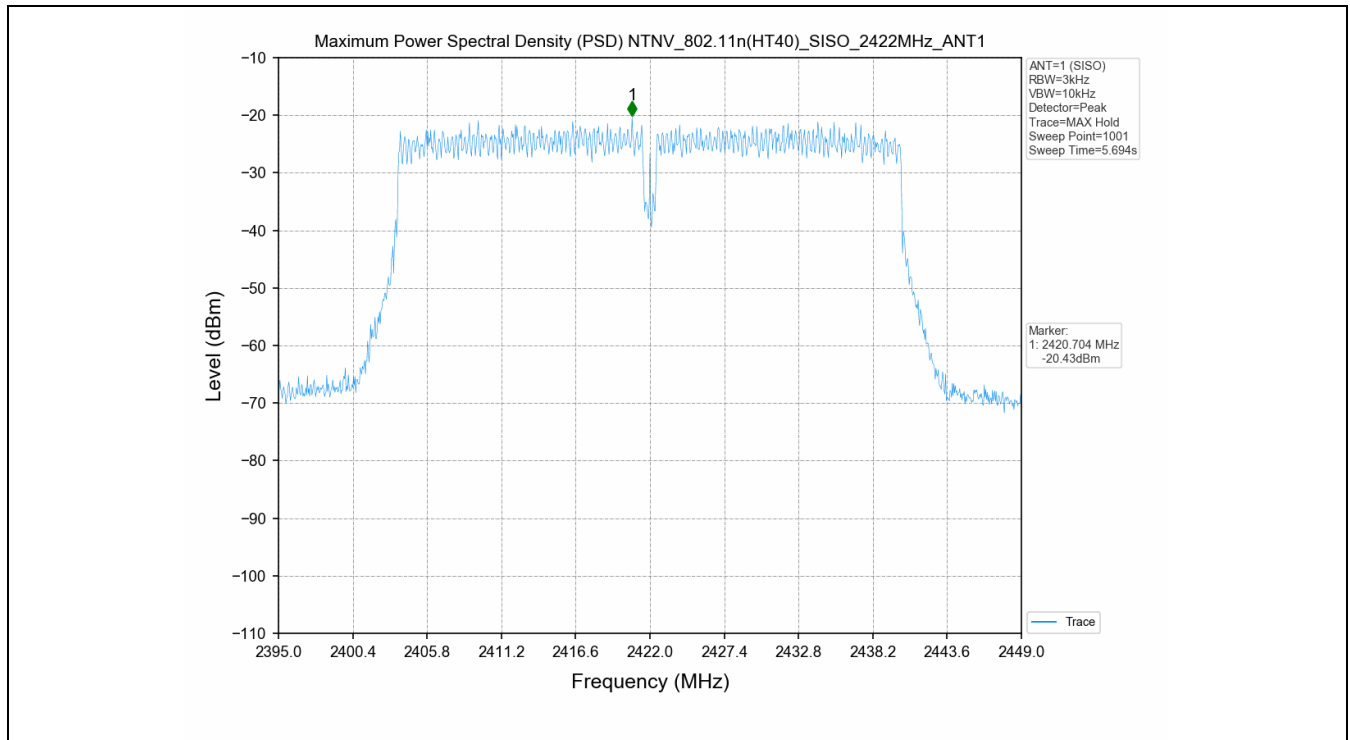


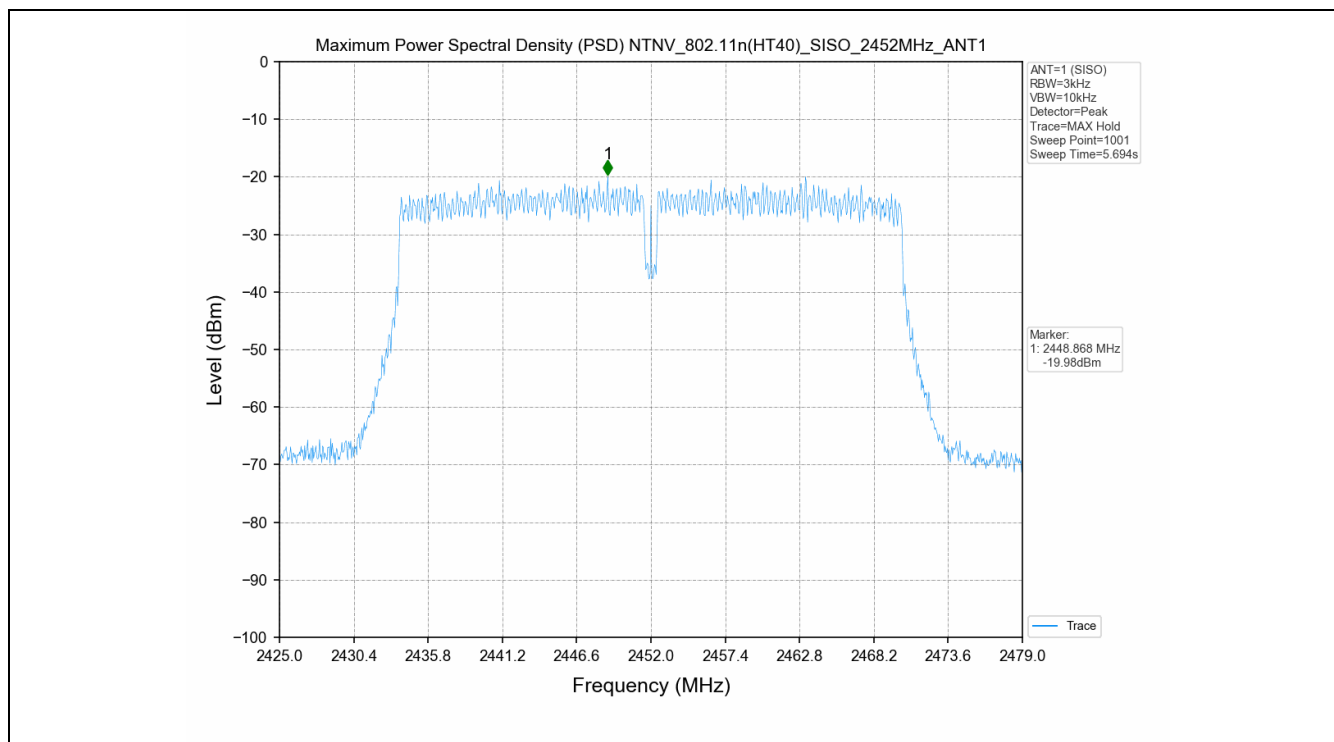












5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBc)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
802.11g	2412	SISO	1	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
	2452	SISO	1	Refer to test graph	-20	PASS

5.2 Test Graph

