

Appendix for 15.247

Product Name: Temperature&Humidity sensor

Test Model: WSD500A

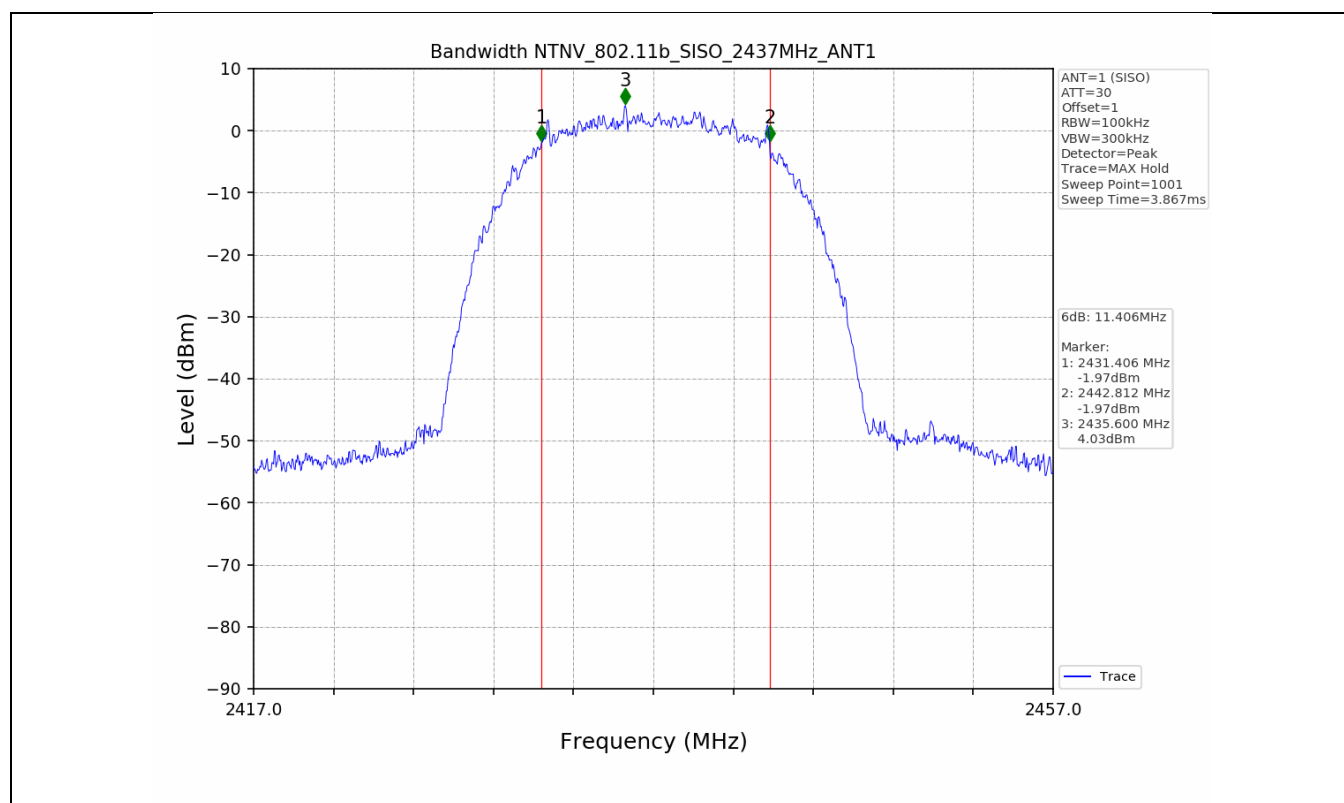
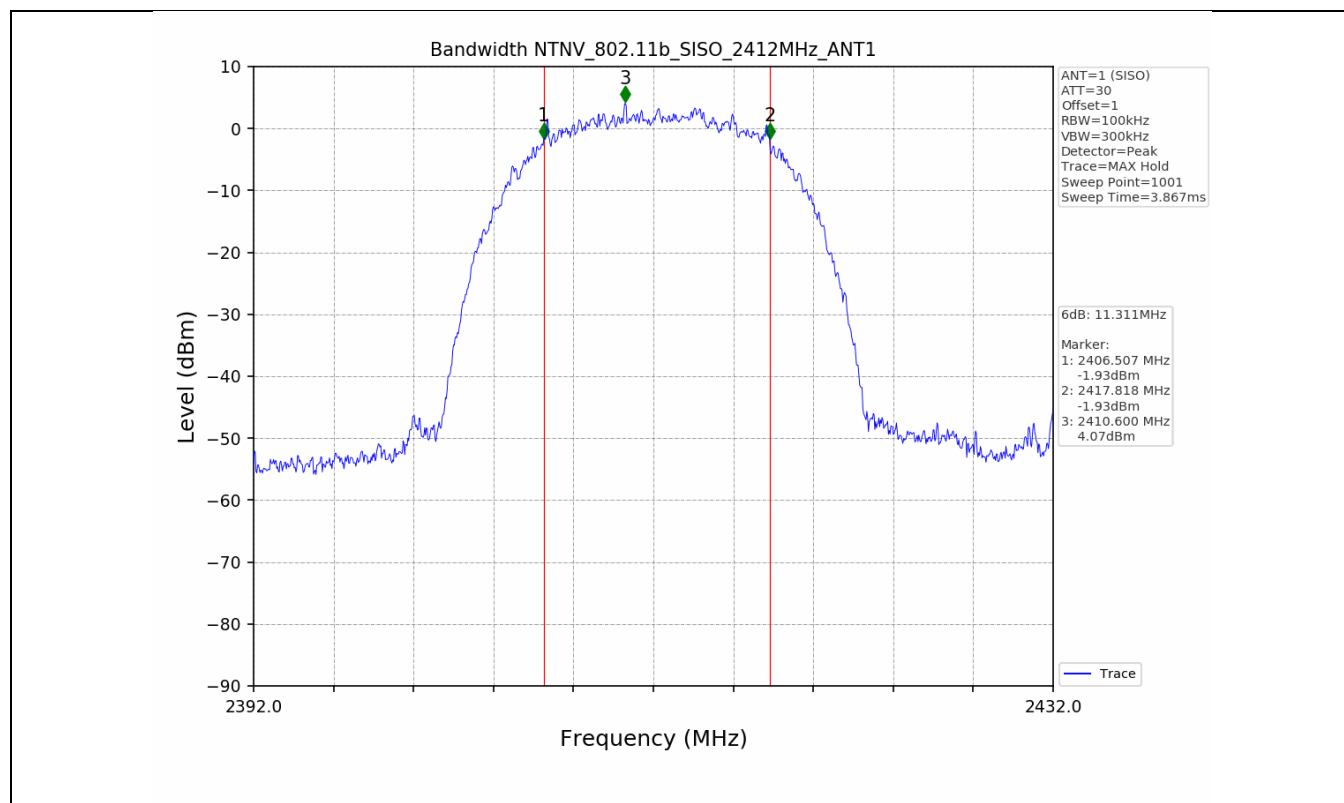
1. Bandwidth

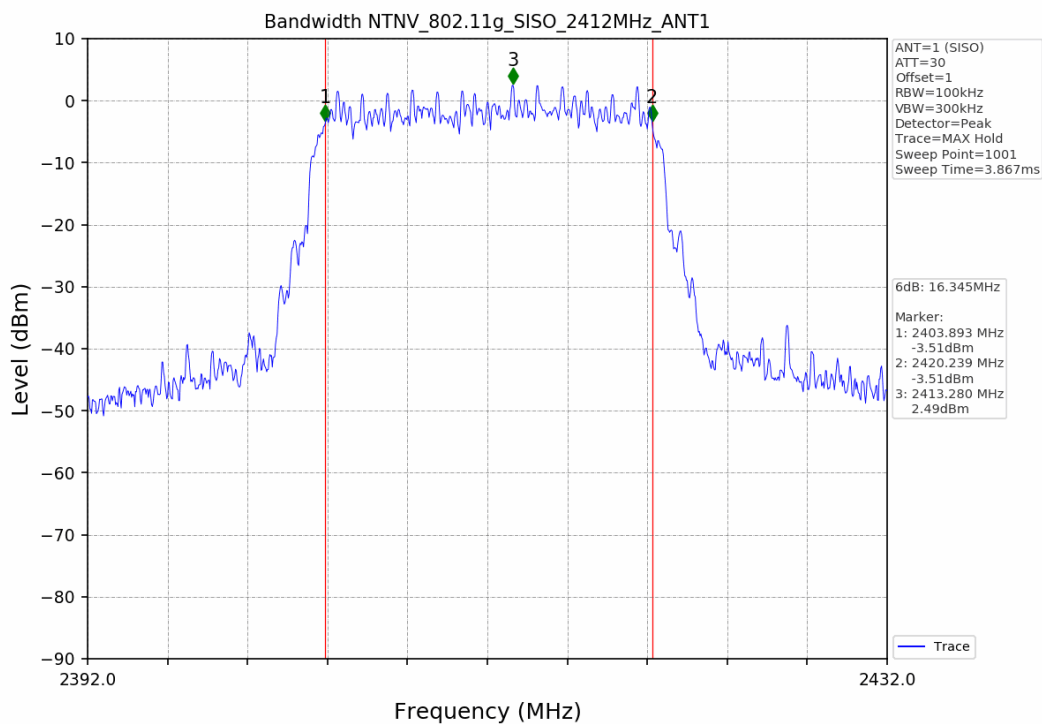
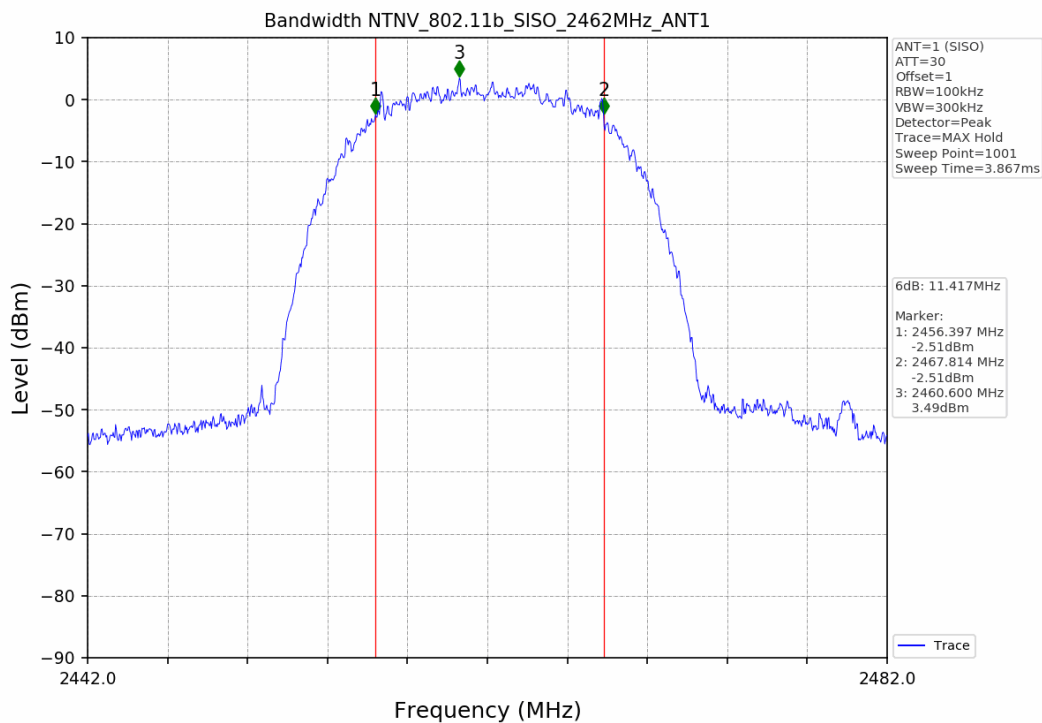
1.1 Test Result

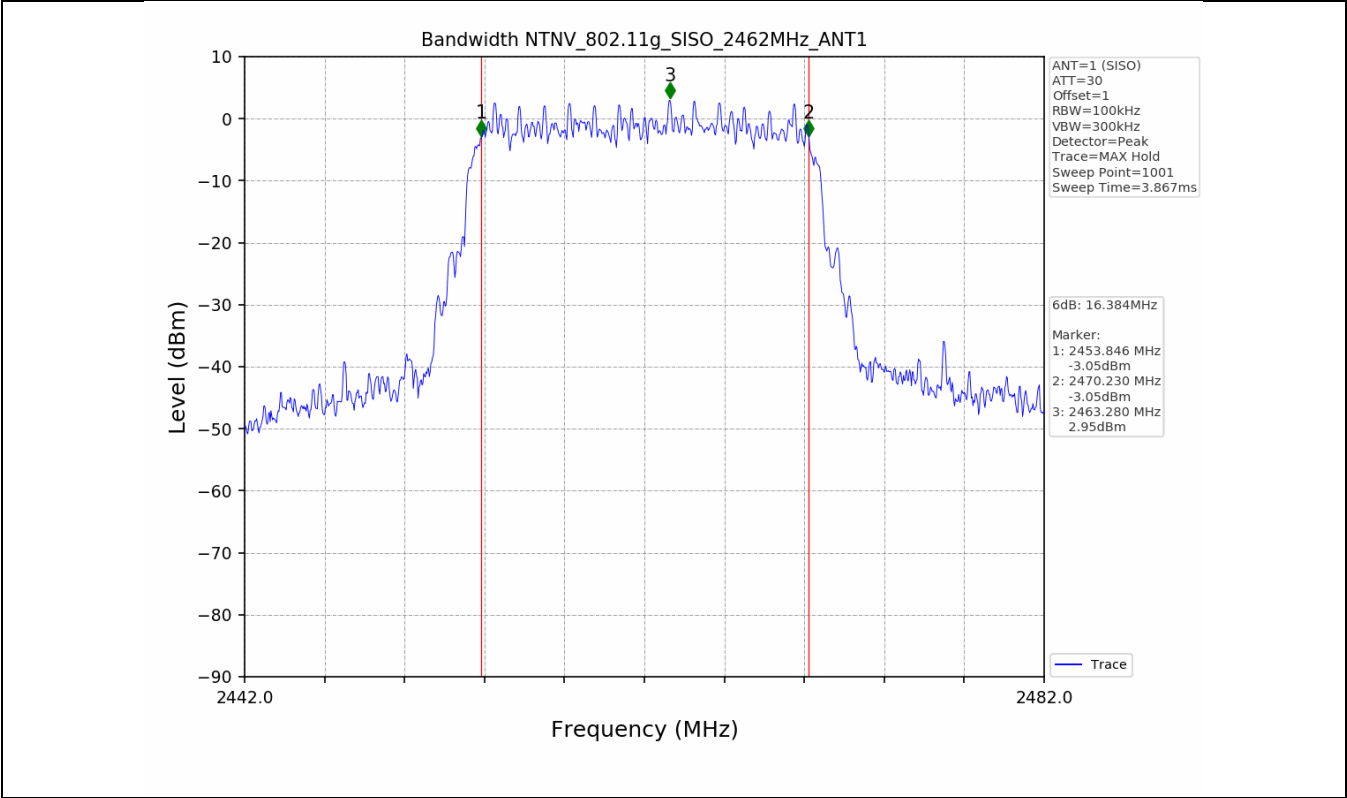
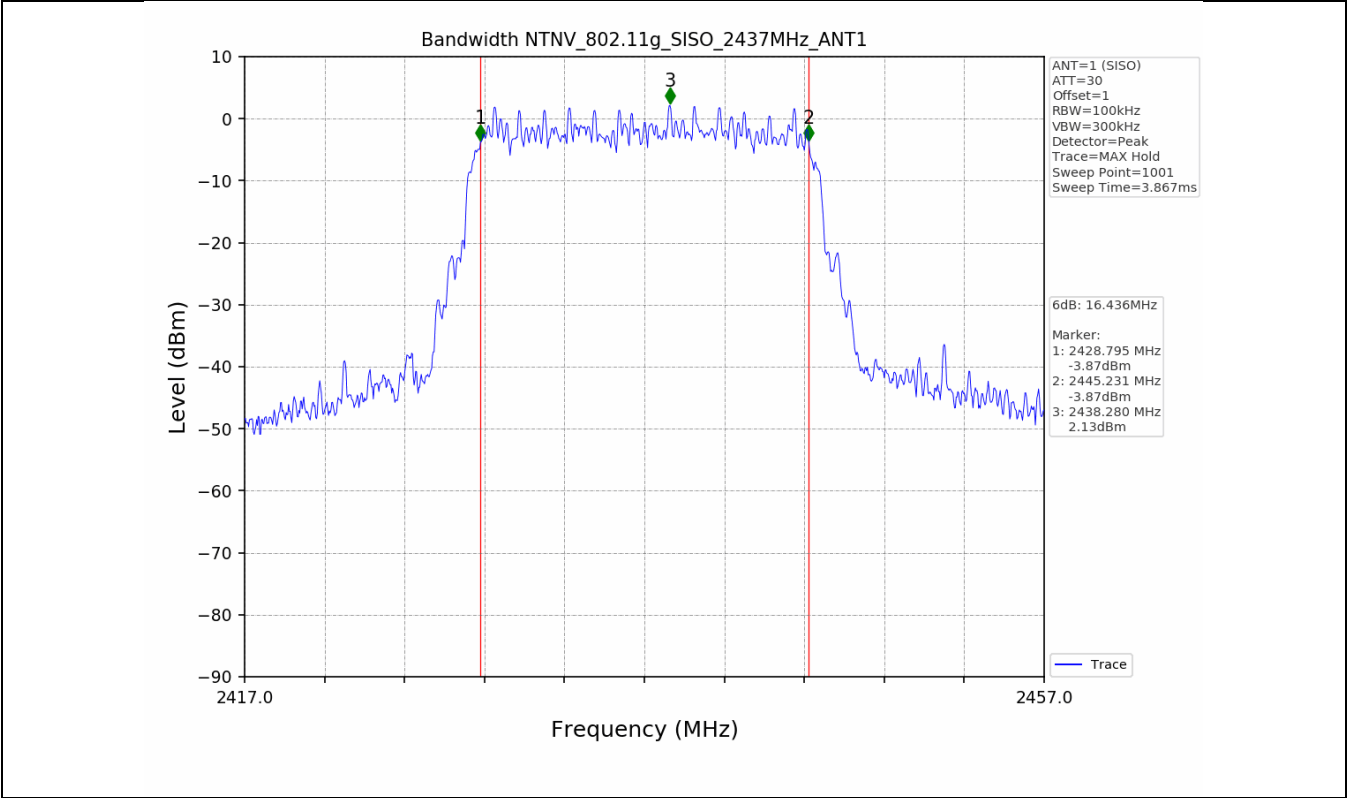
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth	Verdict
				Test Result (MHz)	
802.11b	2412	SISO	1	11.311	PASS
	2437	SISO	1	11.406	PASS
	2462	SISO	1	11.417	PASS
802.11g	2412	SISO	1	16.345	PASS
	2437	SISO	1	16.436	PASS
	2462	SISO	1	16.384	PASS
802.11n(HT20)	2412	SISO	1	16.611	PASS
	2437	SISO	1	16.952	PASS
	2462	SISO	1	16.922	PASS
802.11n(HT40)	2422	SISO	1	35.219	PASS
	2437	SISO	1	35.242	PASS
	2452	SISO	1	35.228	PASS

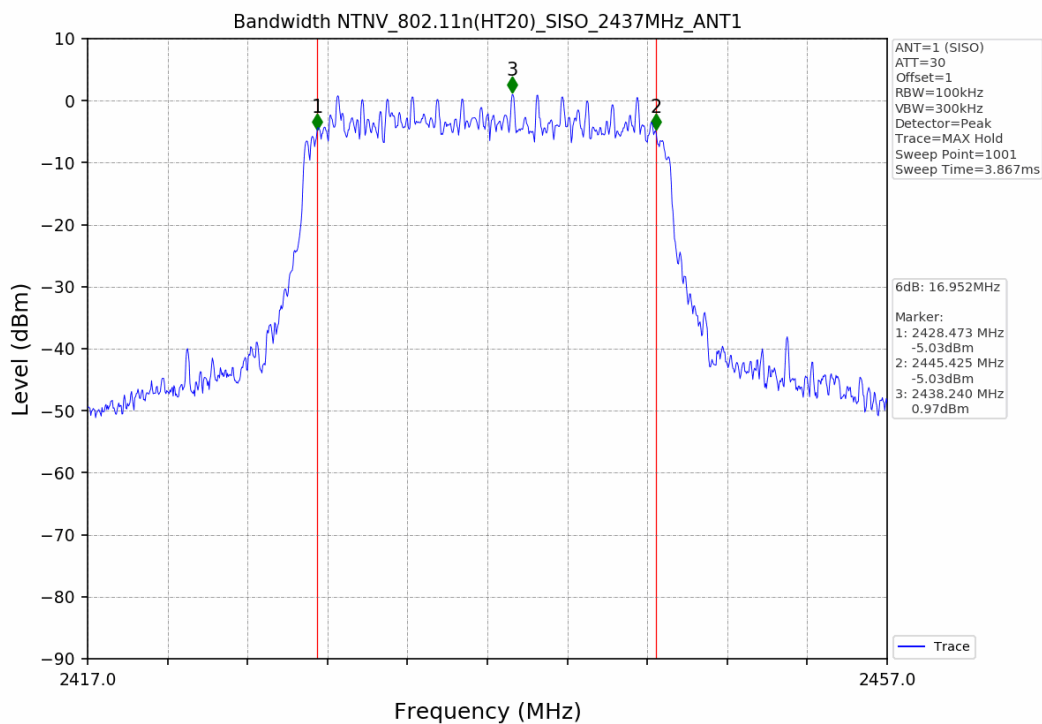
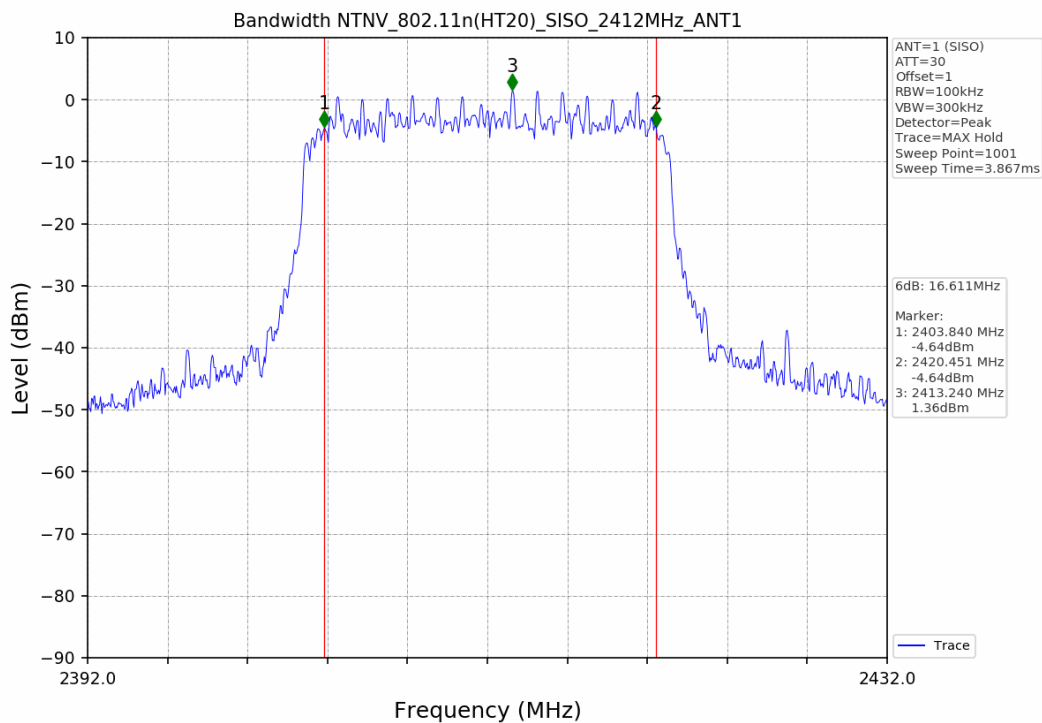
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	14.837	Only for Report Use
	2437	SISO	1	14.841	Only for Report Use
	2462	SISO	1	14.814	Only for Report Use
802.11g	2412	SISO	1	17.357	Only for Report Use
	2437	SISO	1	17.365	Only for Report Use
	2462	SISO	1	17.356	Only for Report Use
802.11n(HT20)	2412	SISO	1	18.065	Only for Report Use
	2437	SISO	1	18.062	Only for Report Use
	2462	SISO	1	18.051	Only for Report Use
802.11n(HT40)	2422	SISO	1	36.087	Only for Report Use
	2437	SISO	1	36.166	Only for Report Use
	2452	SISO	1	36.159	Only for Report Use

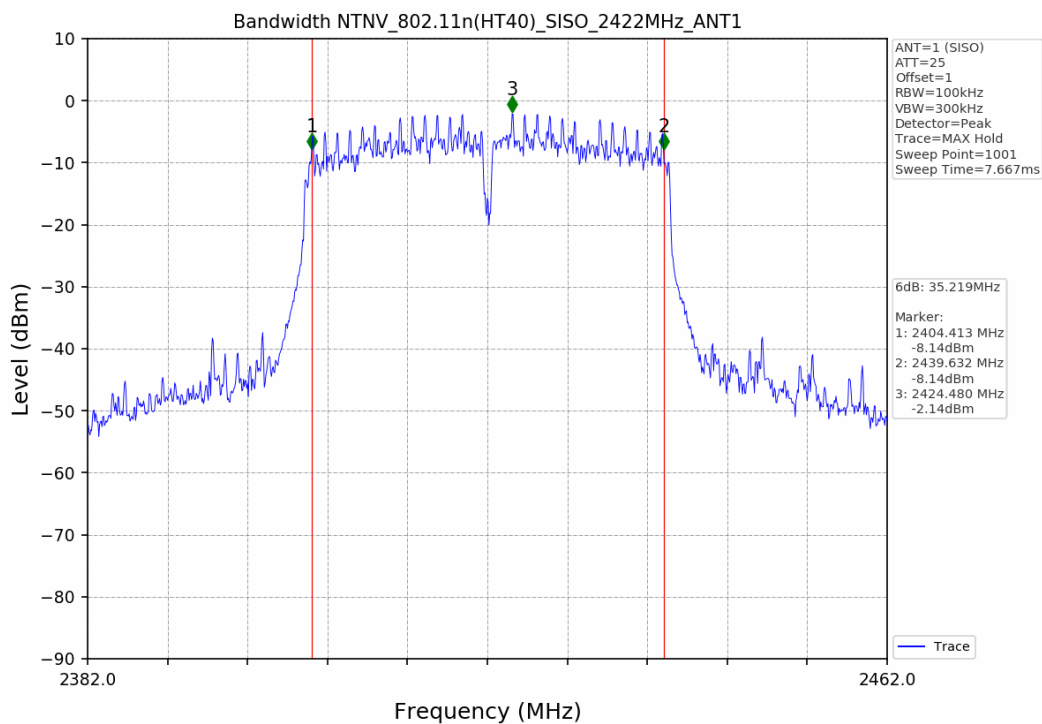
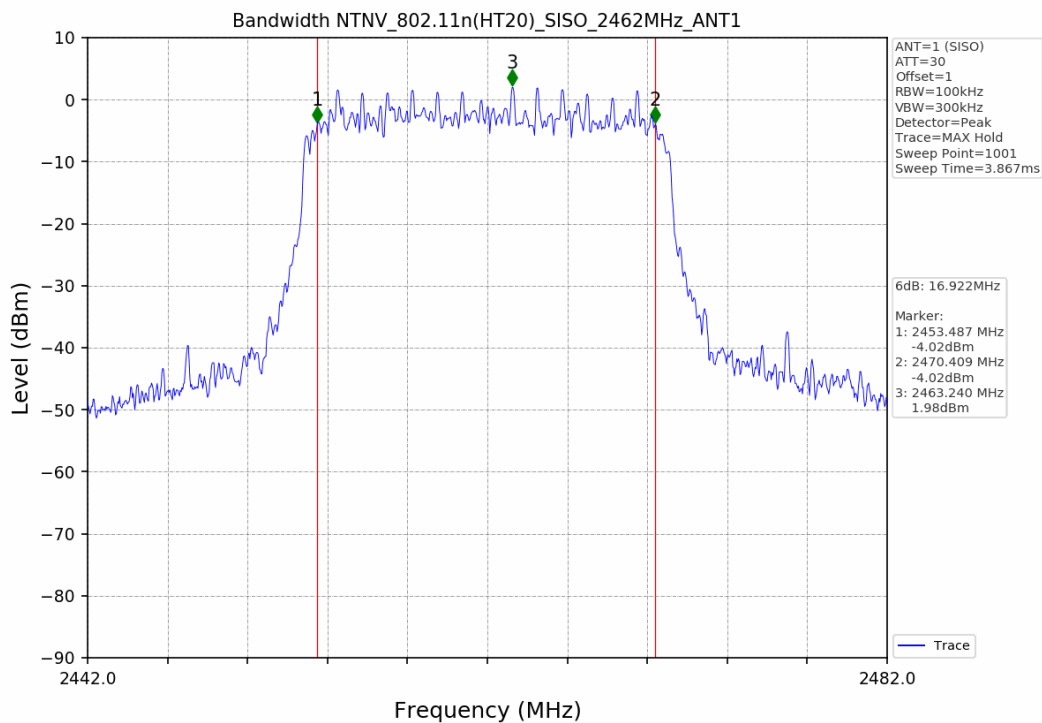
1.2 Test Graph - 6dB Bandwidth

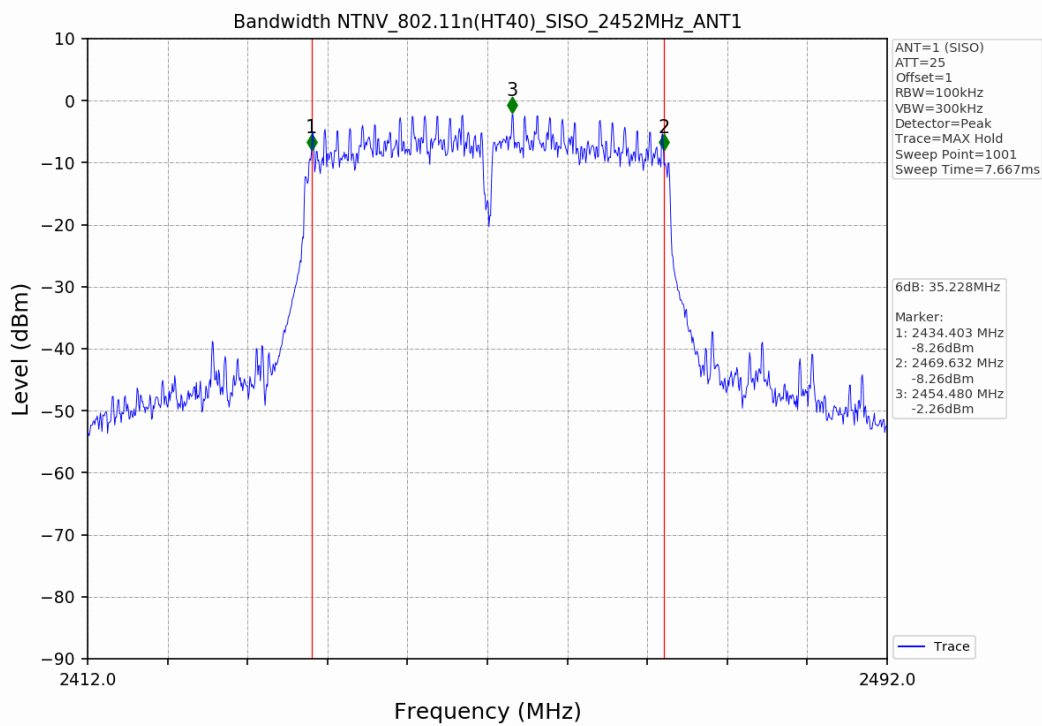
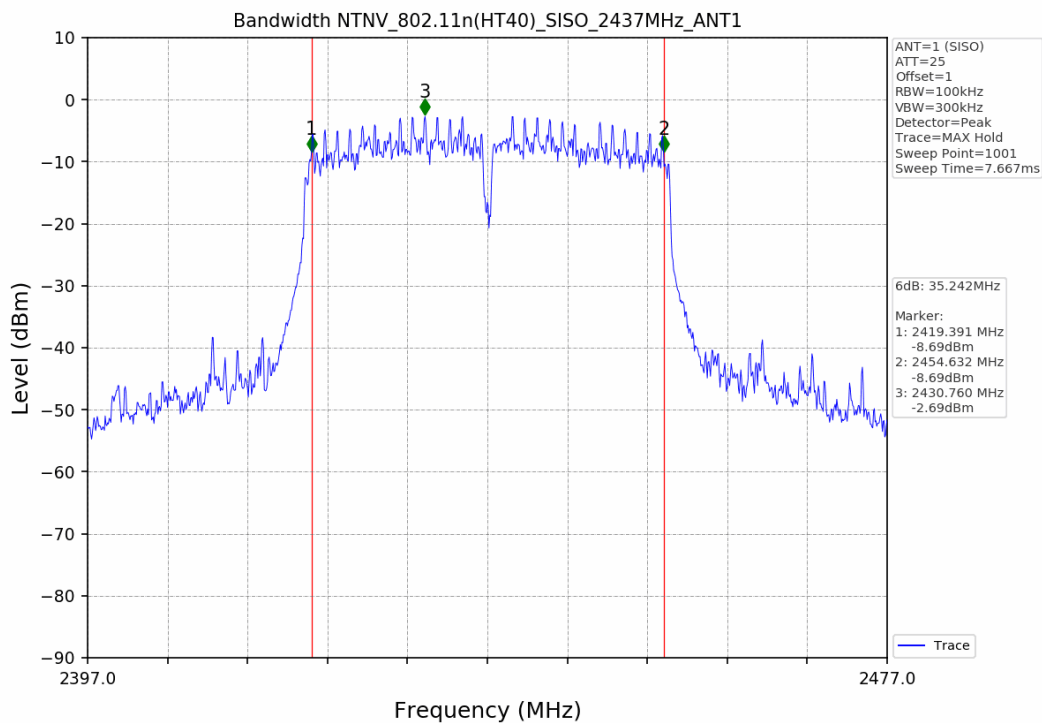




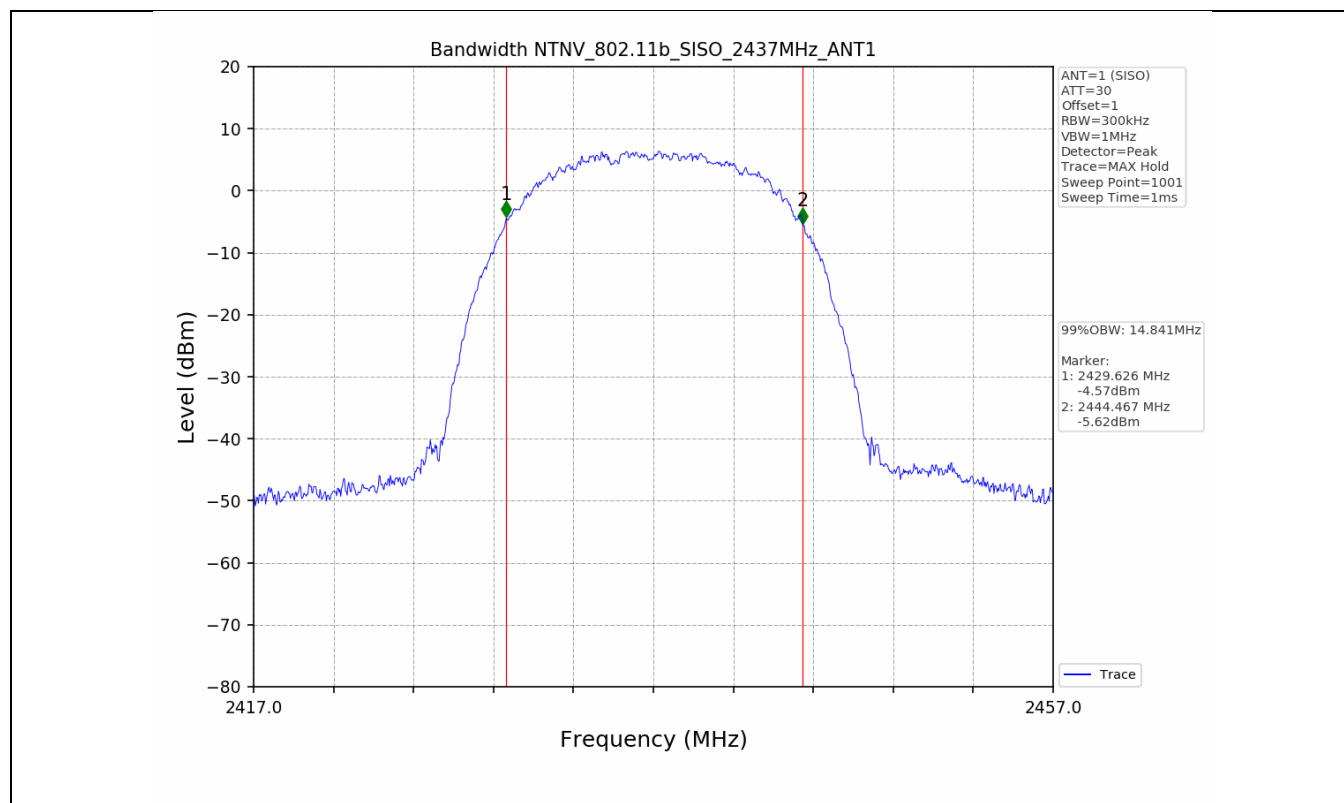
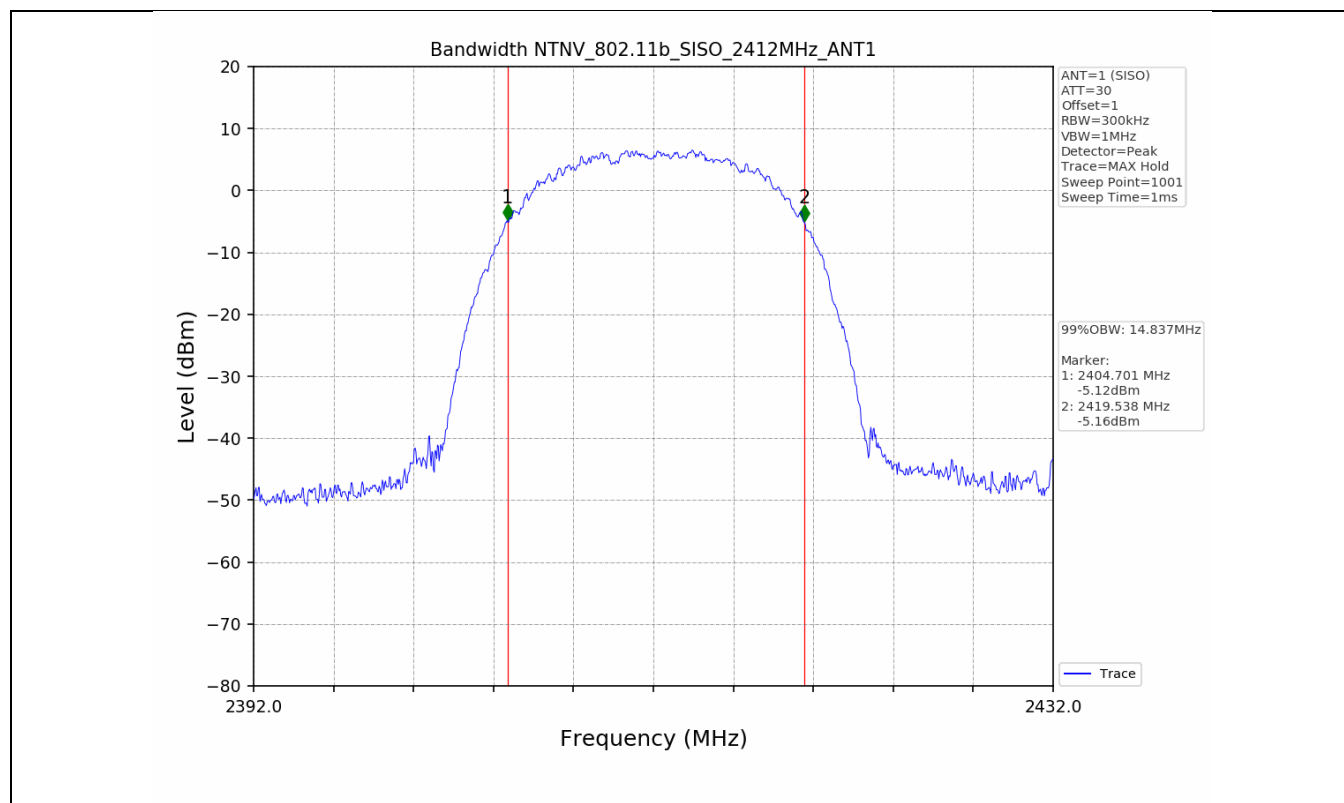


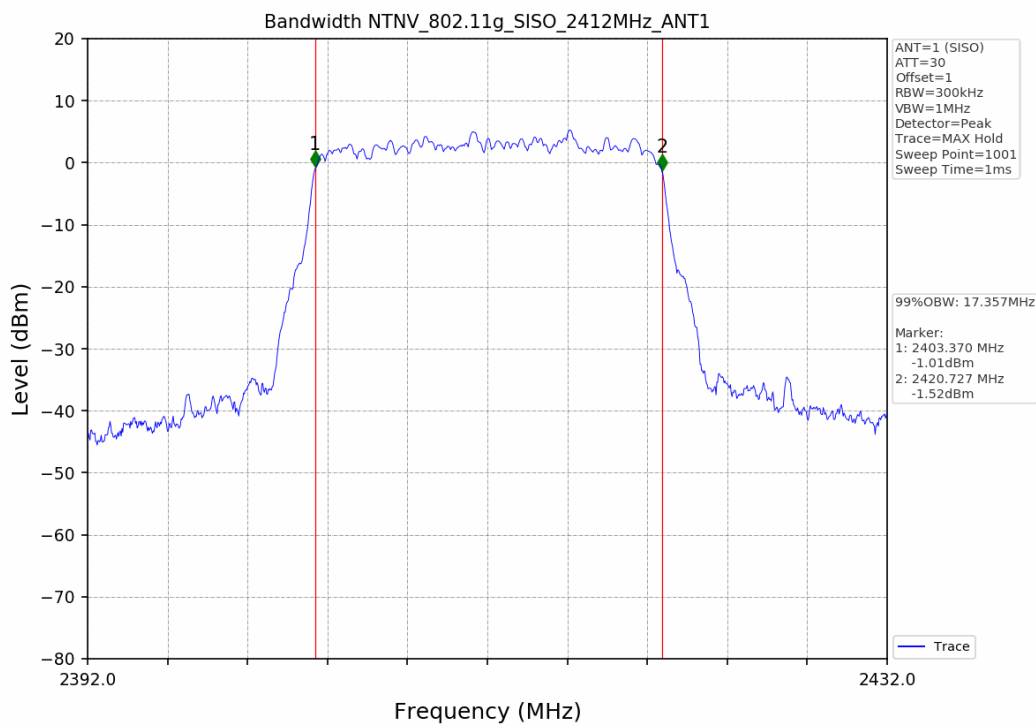
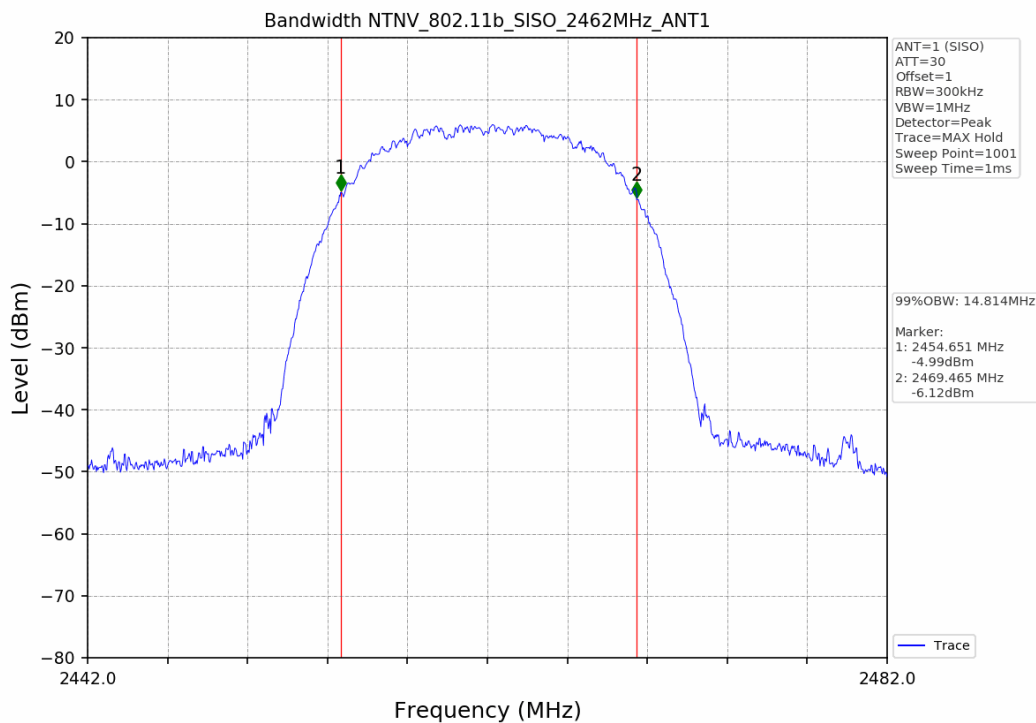


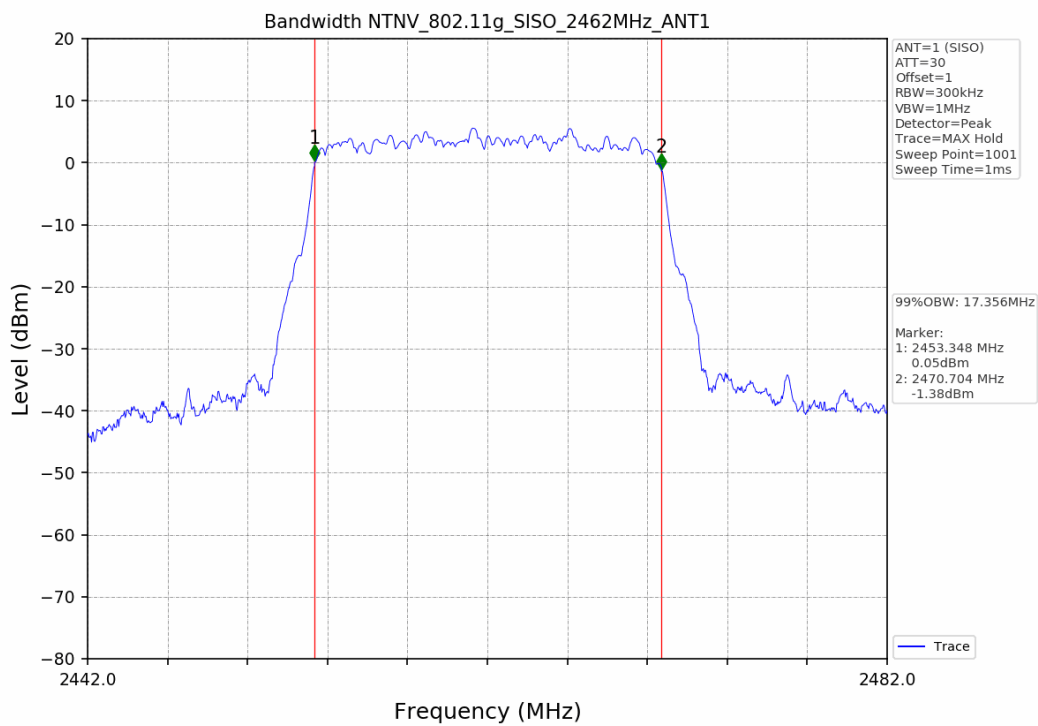
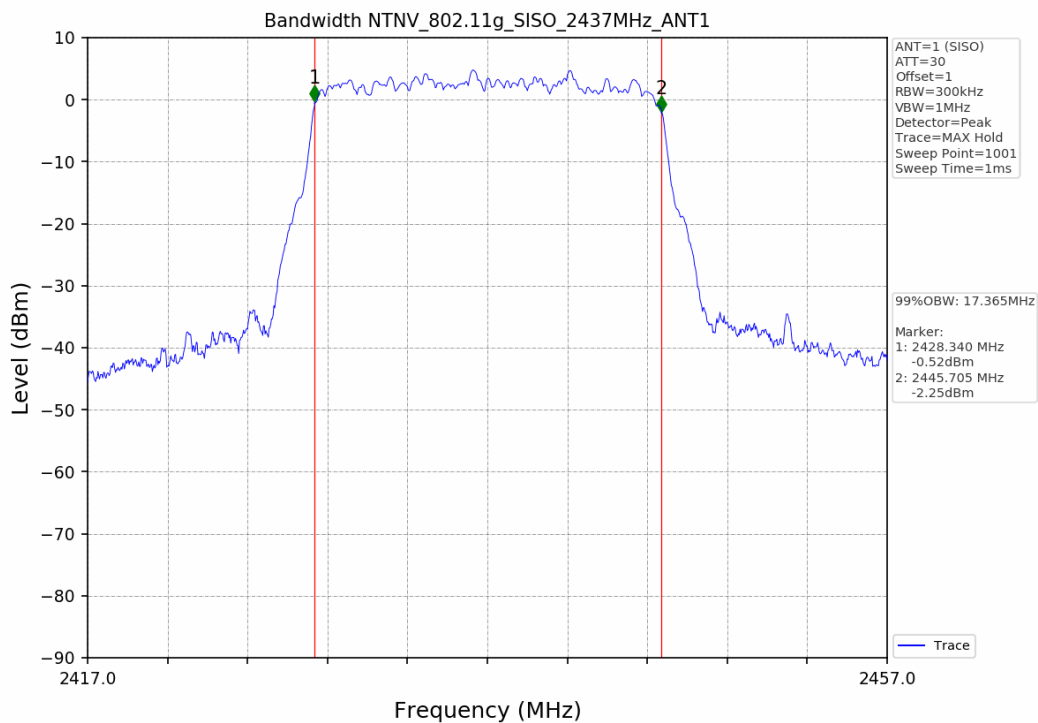


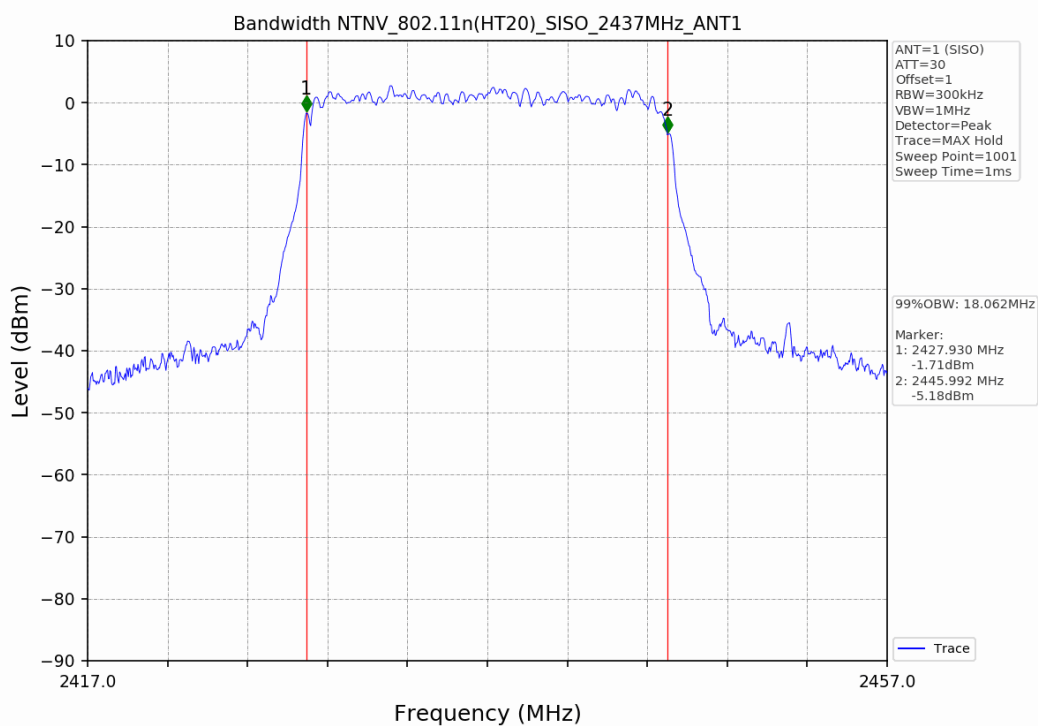
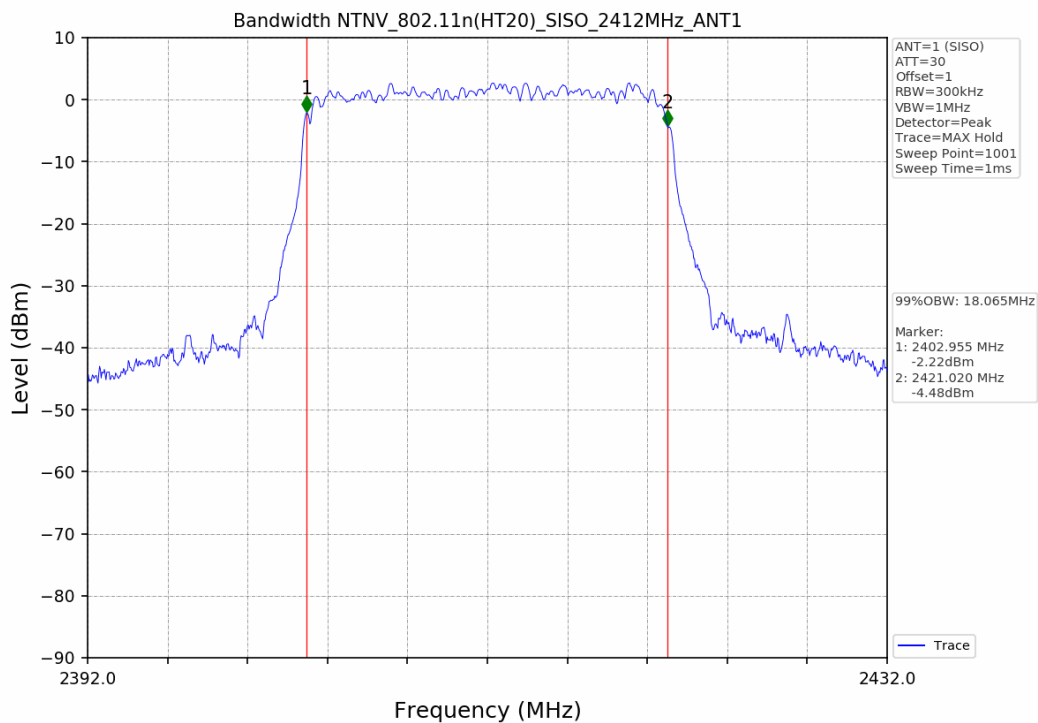


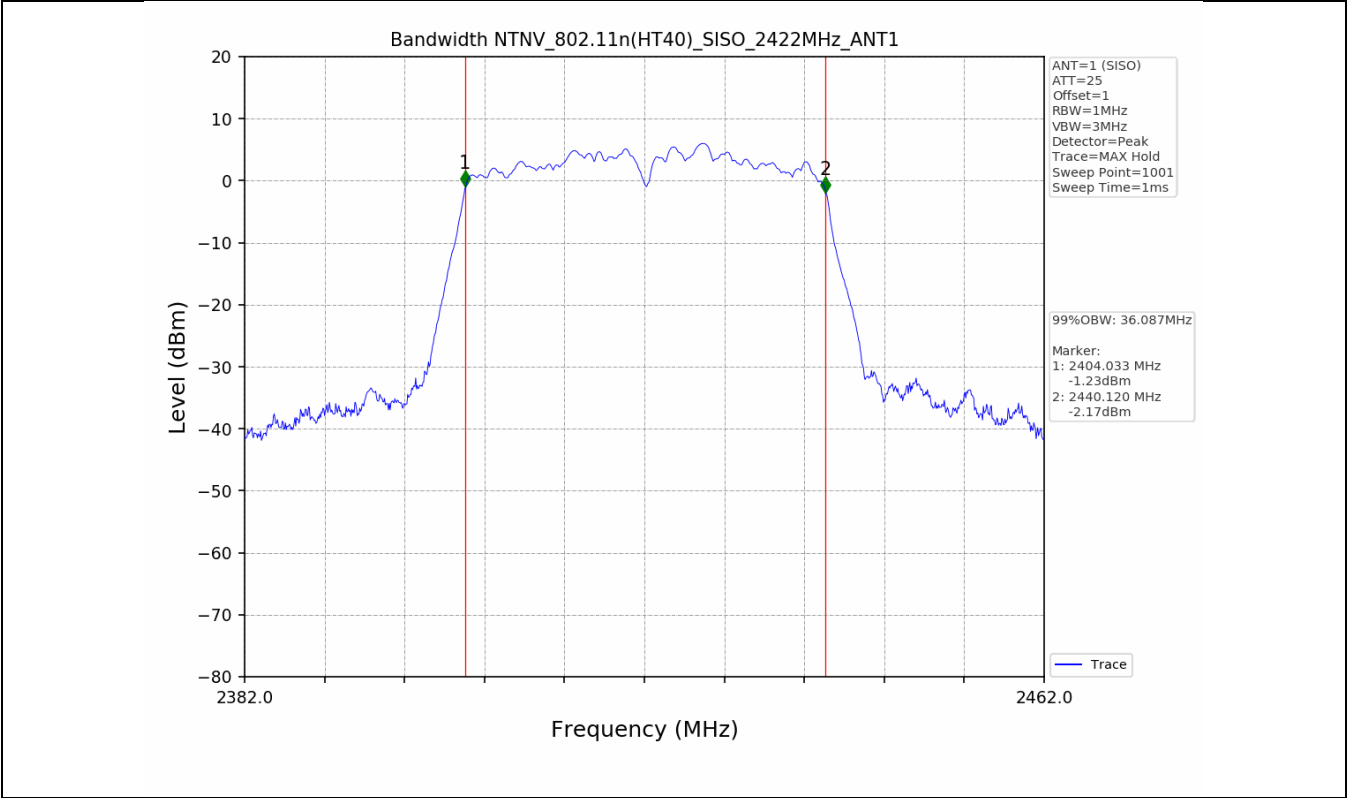
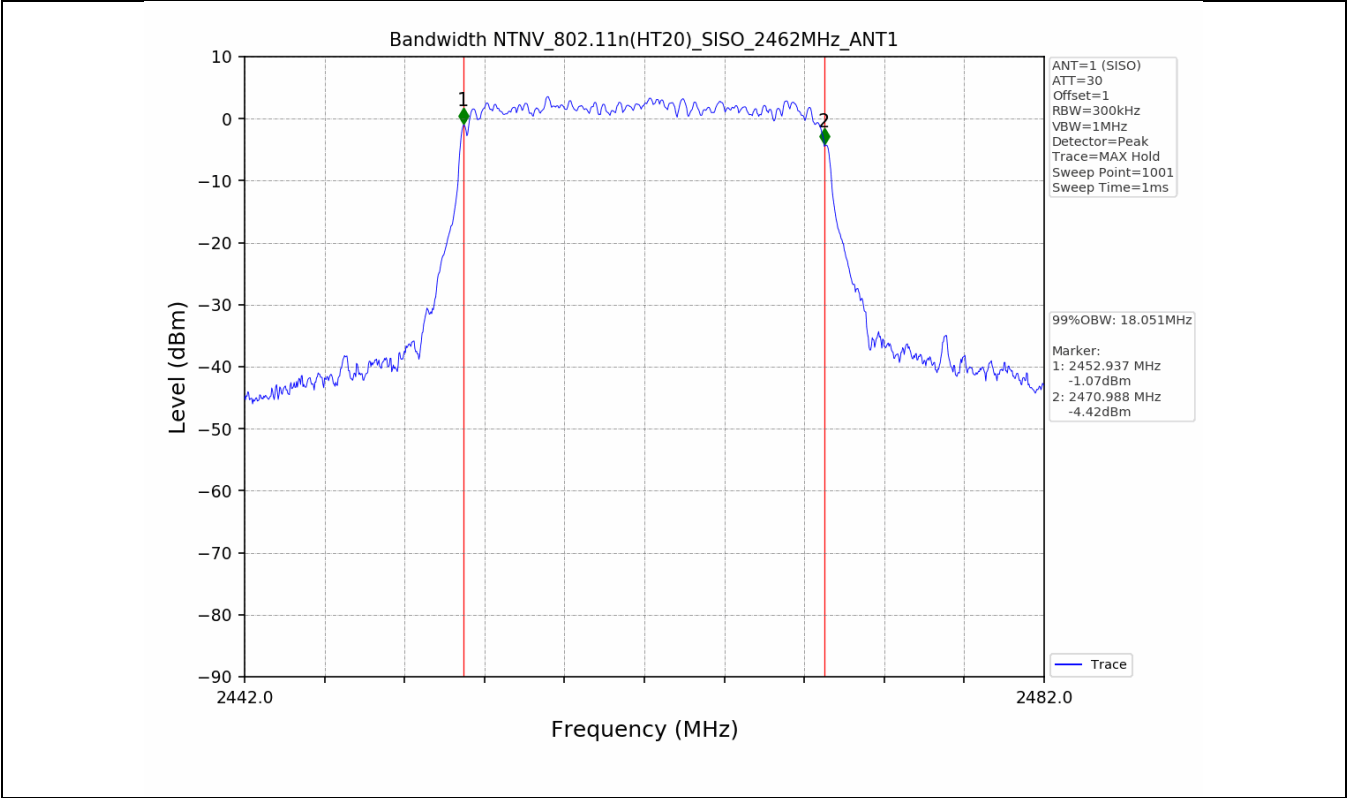
1.3 Test Graph - 99% Occupied Bandwidth

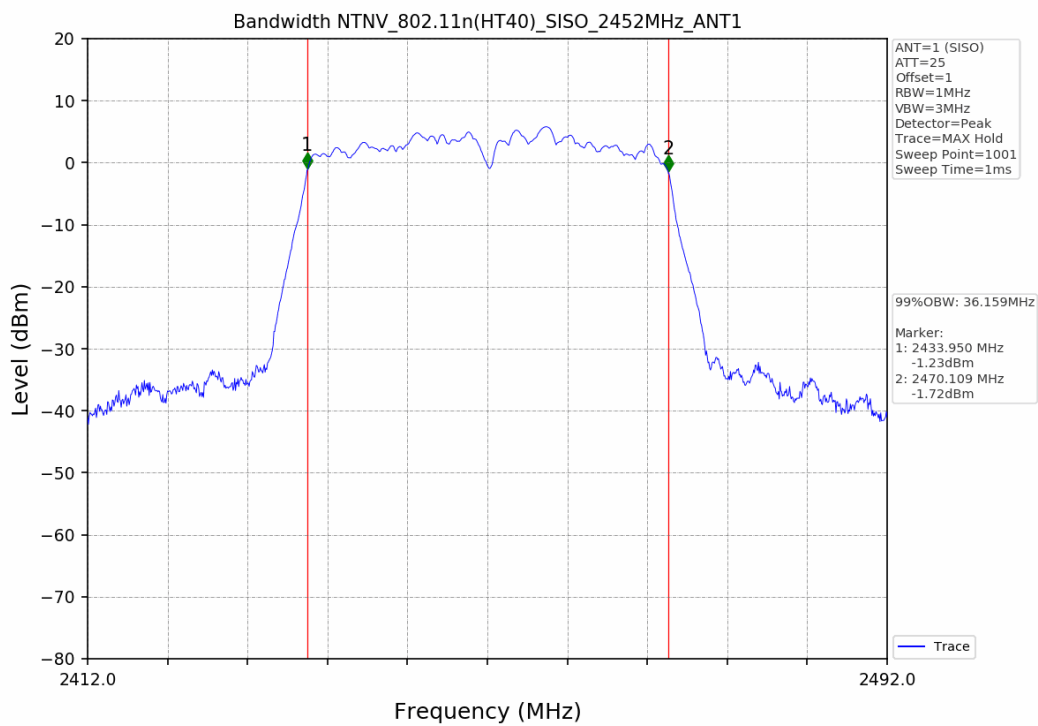
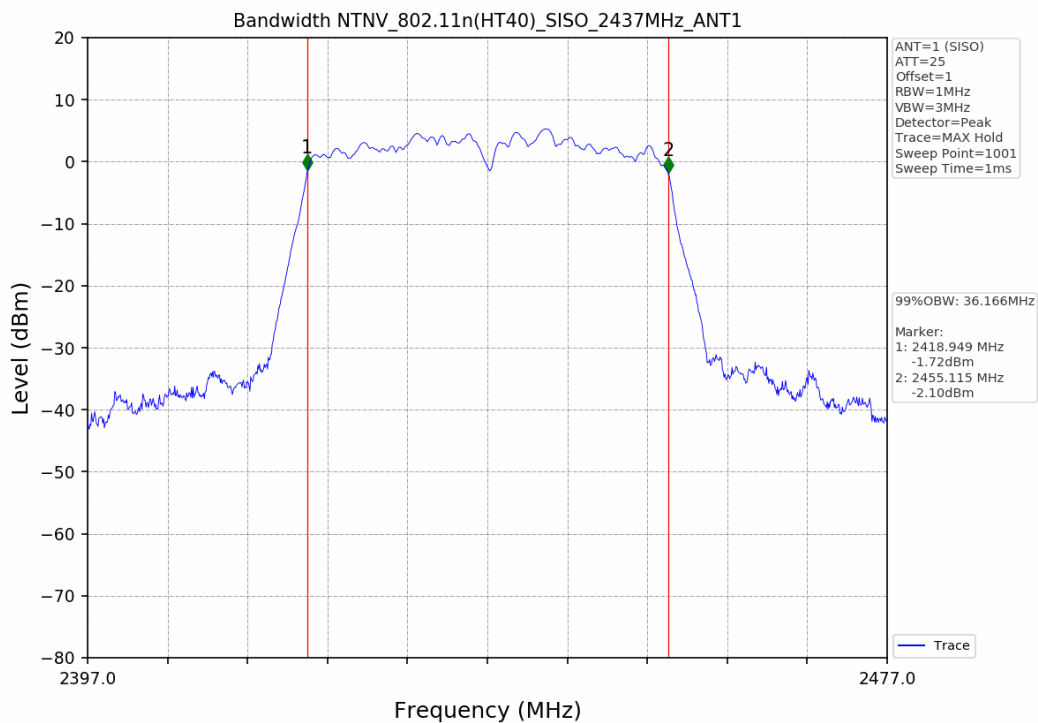










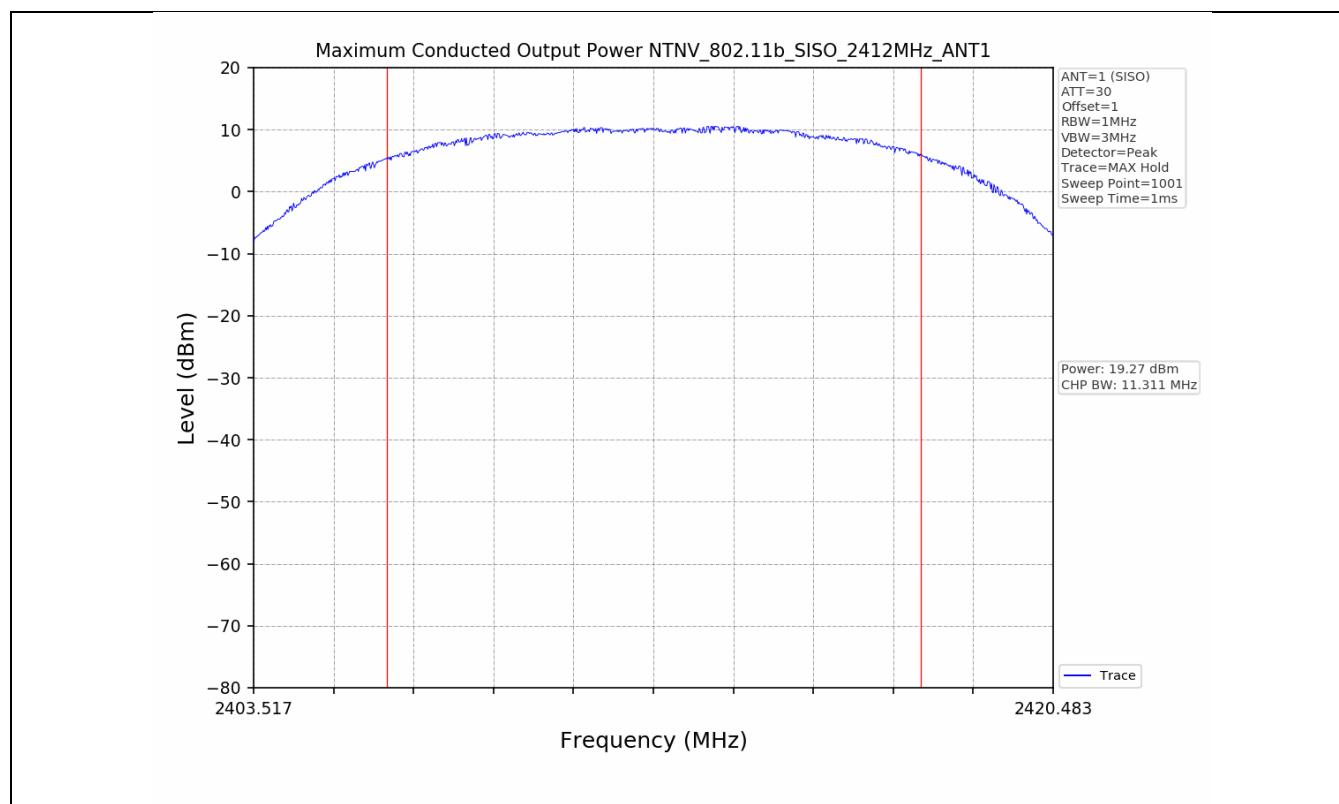


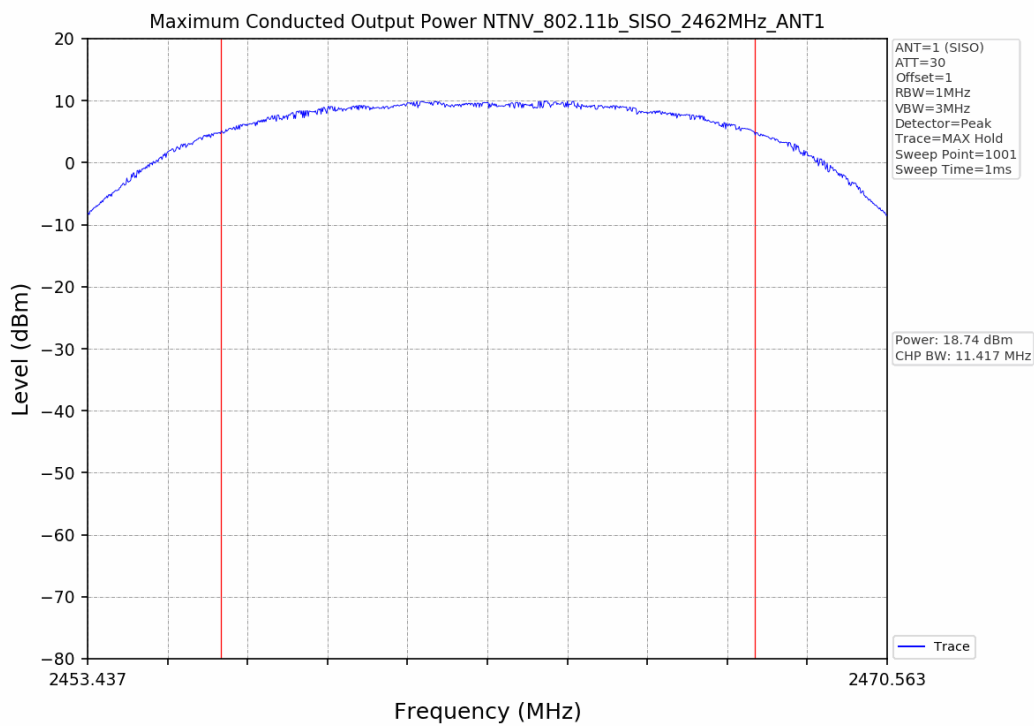
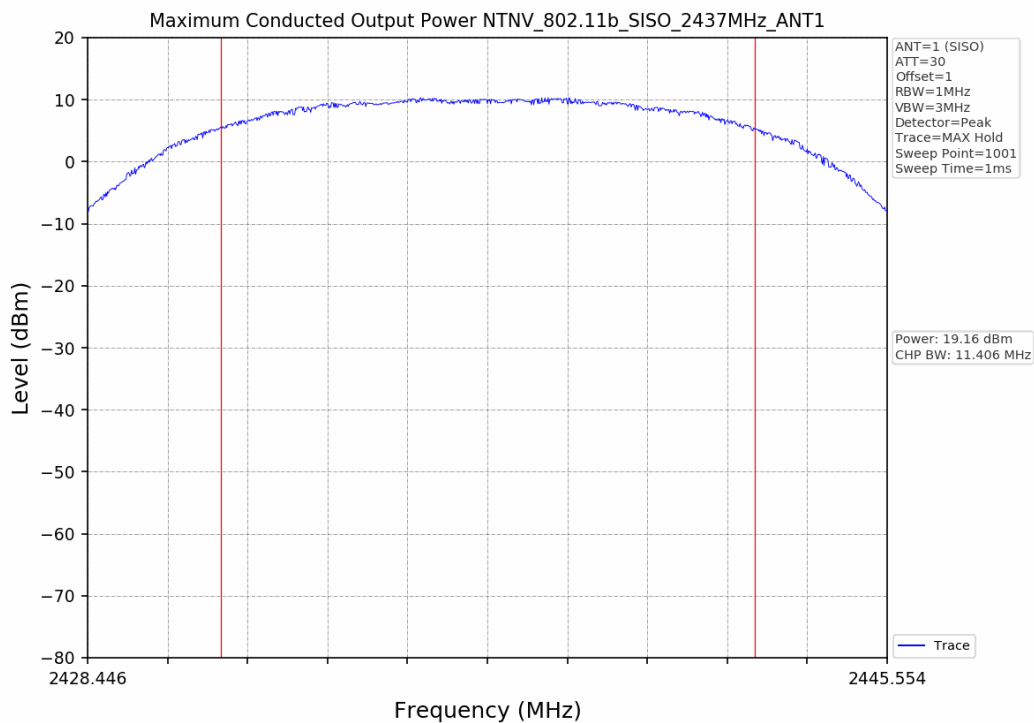
2. Maximum Conducted Output Power

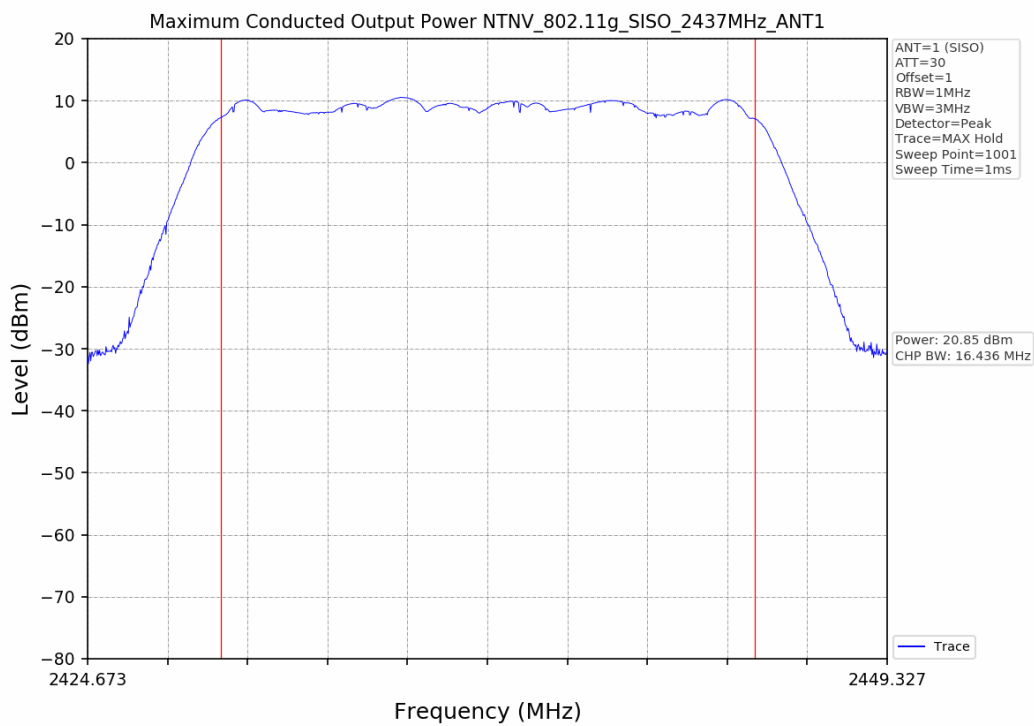
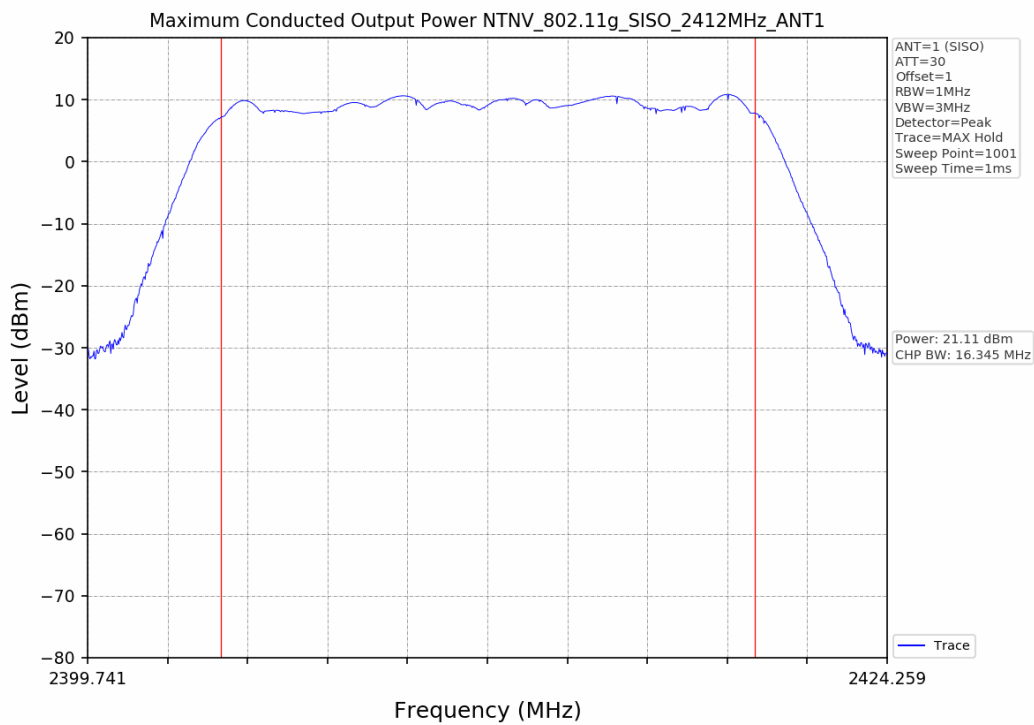
2.1 Test Result

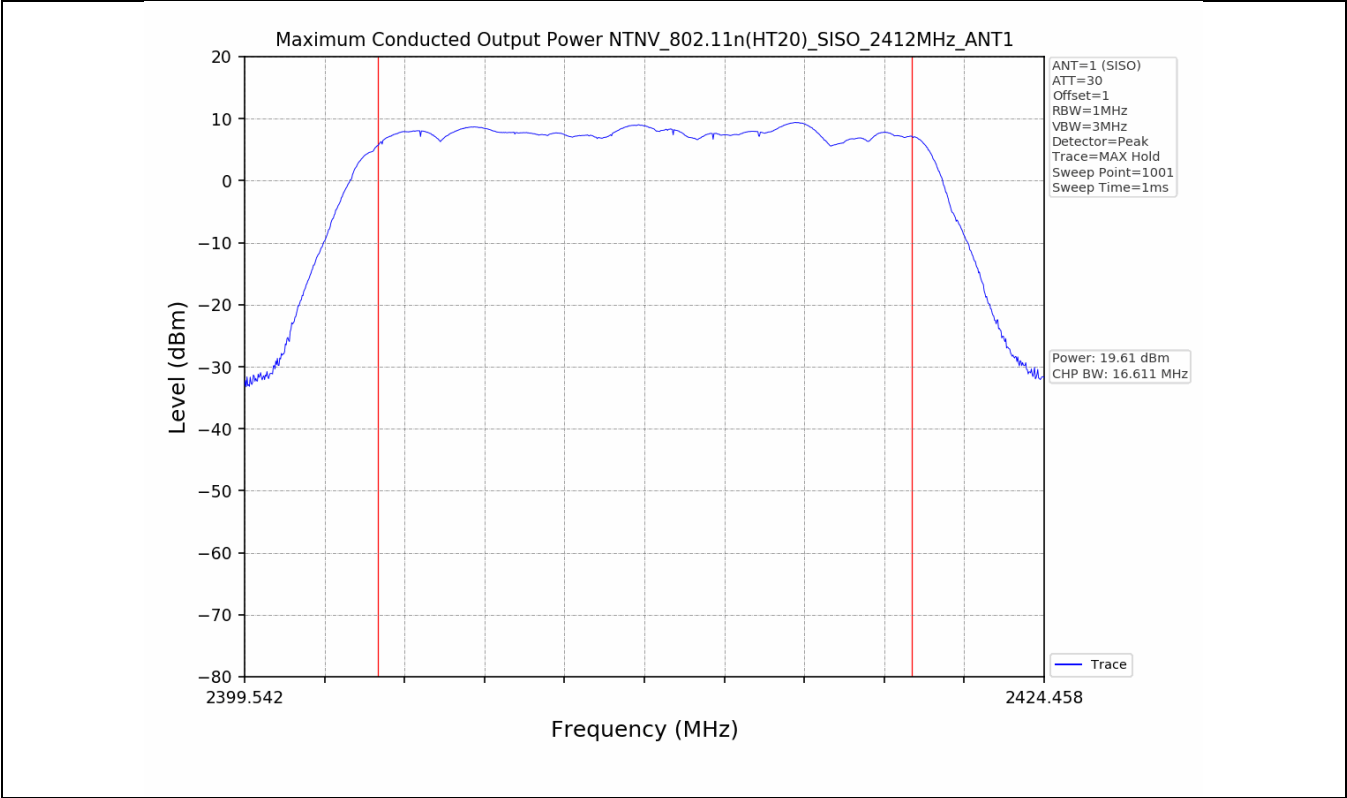
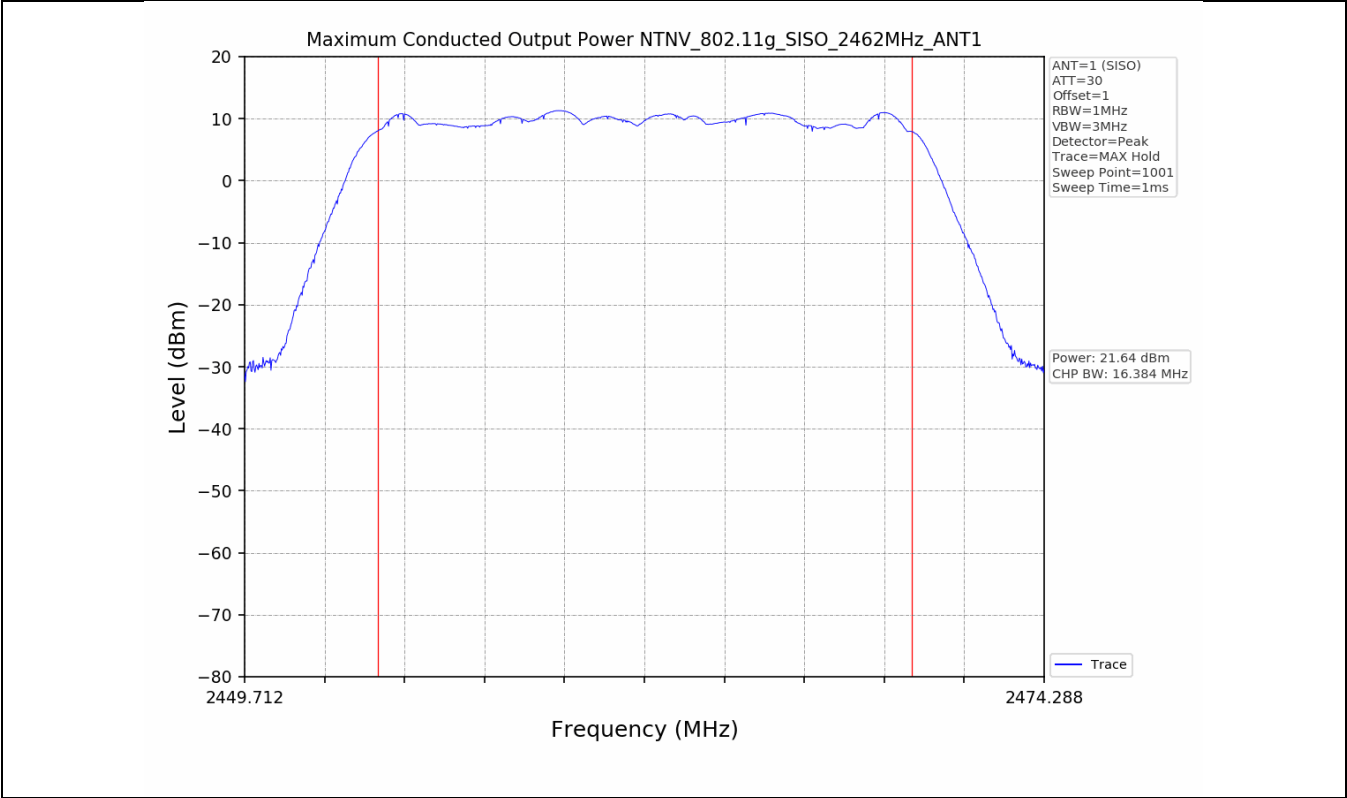
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	19.27	30	PASS
	2437	SISO	19.16	30	PASS
	2462	SISO	18.74	30	PASS
802.11g	2412	SISO	21.11	30	PASS
	2437	SISO	20.85	30	PASS
	2462	SISO	21.64	30	PASS
802.11n(HT20)	2412	SISO	19.61	30	PASS
	2437	SISO	19.47	30	PASS
	2462	SISO	20.33	30	PASS
802.11n(HT40)	2422	SISO	18.23	30	PASS
	2437	SISO	17.76	30	PASS
	2452	SISO	18.13	30	PASS

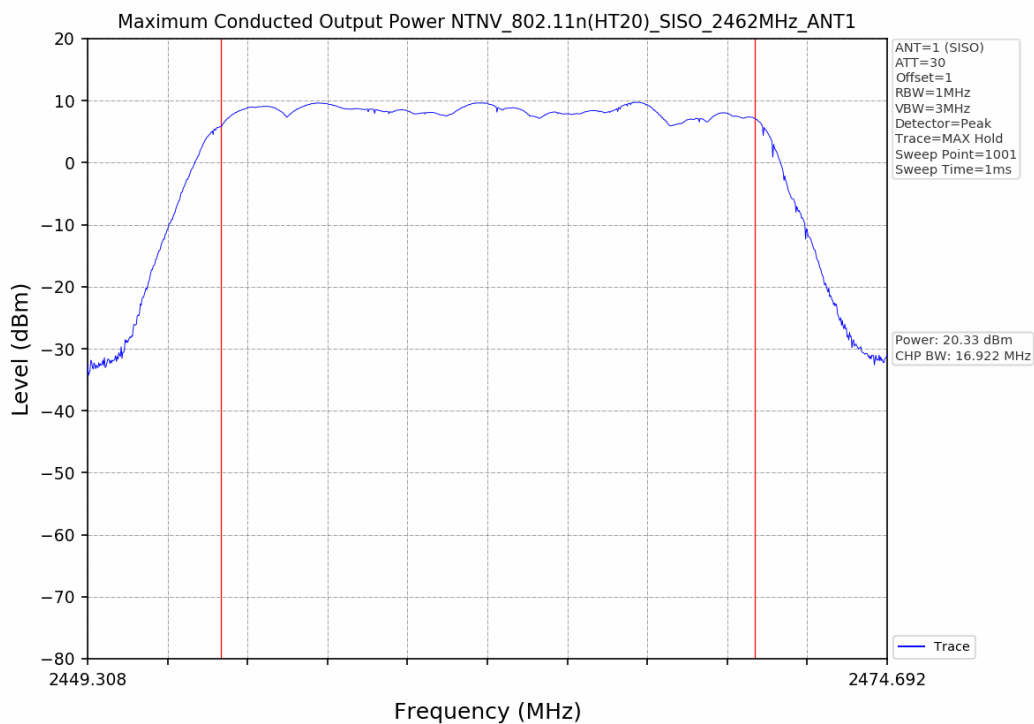
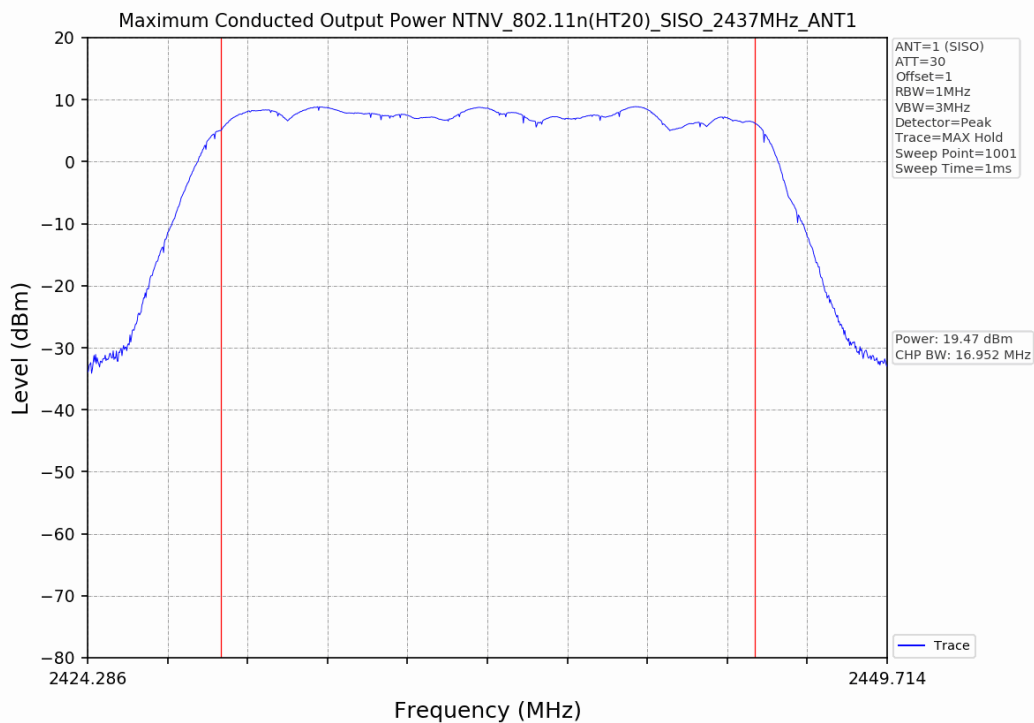
2.2 Test Graph

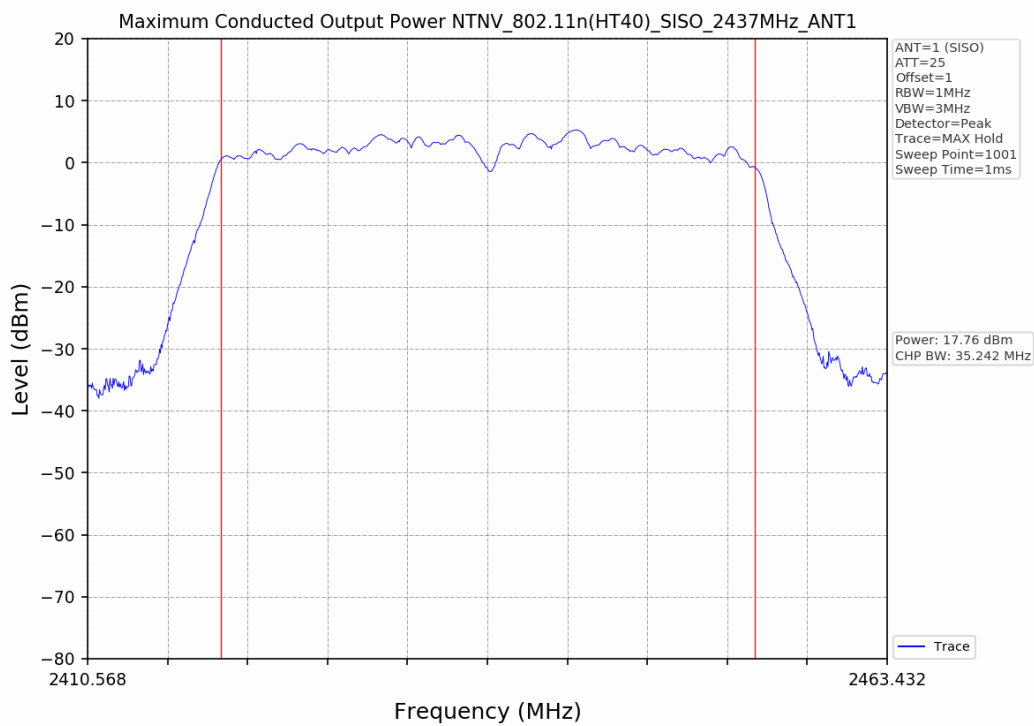
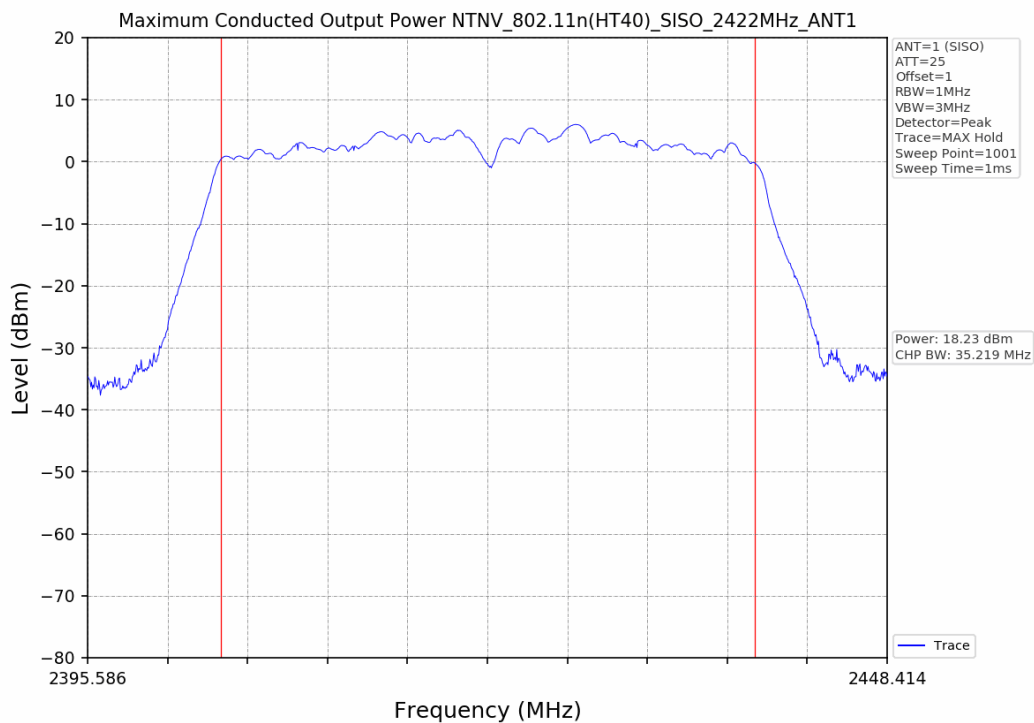


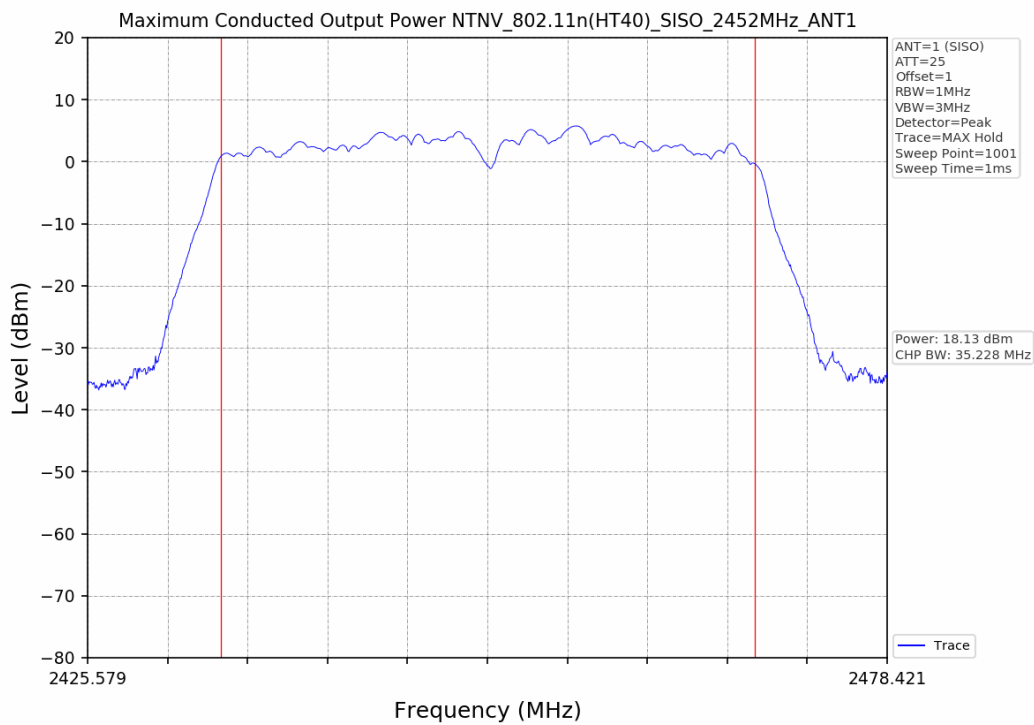










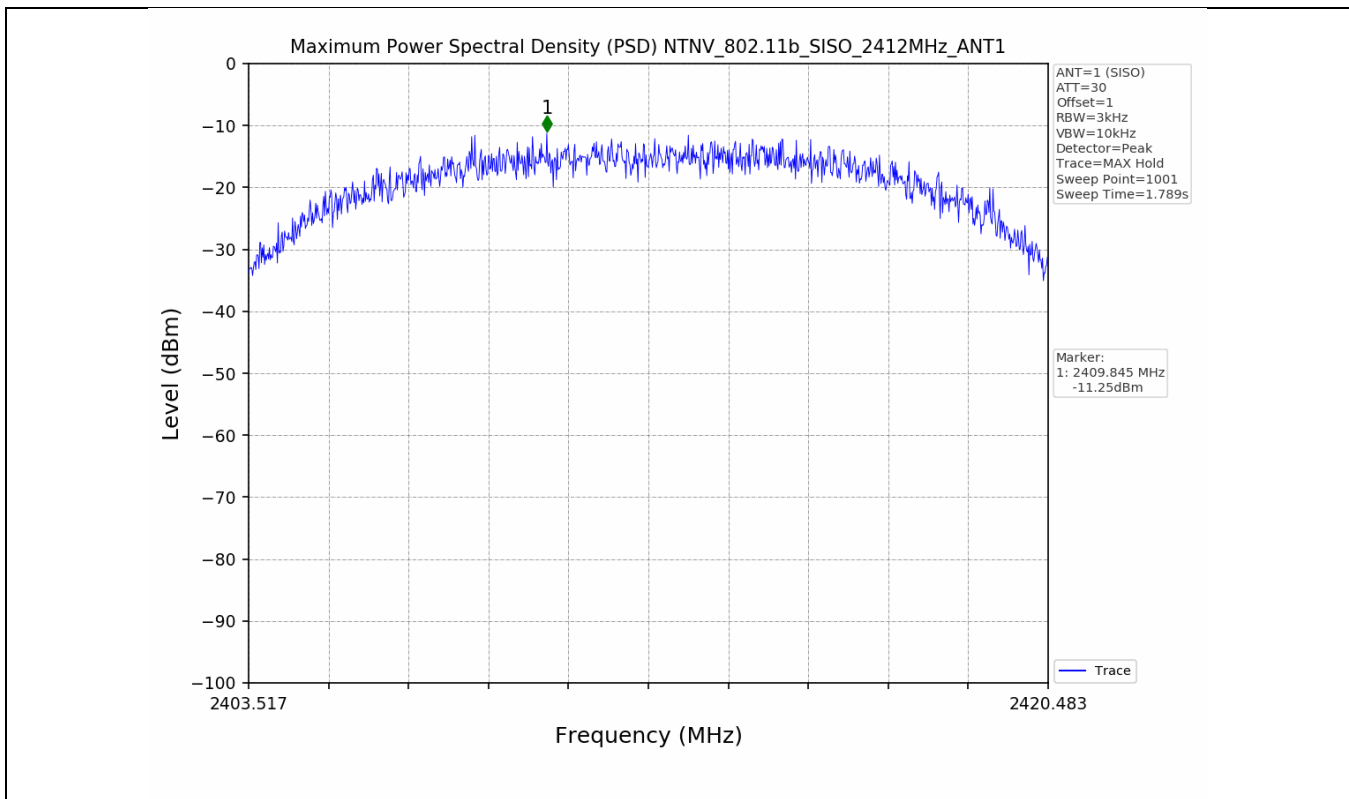


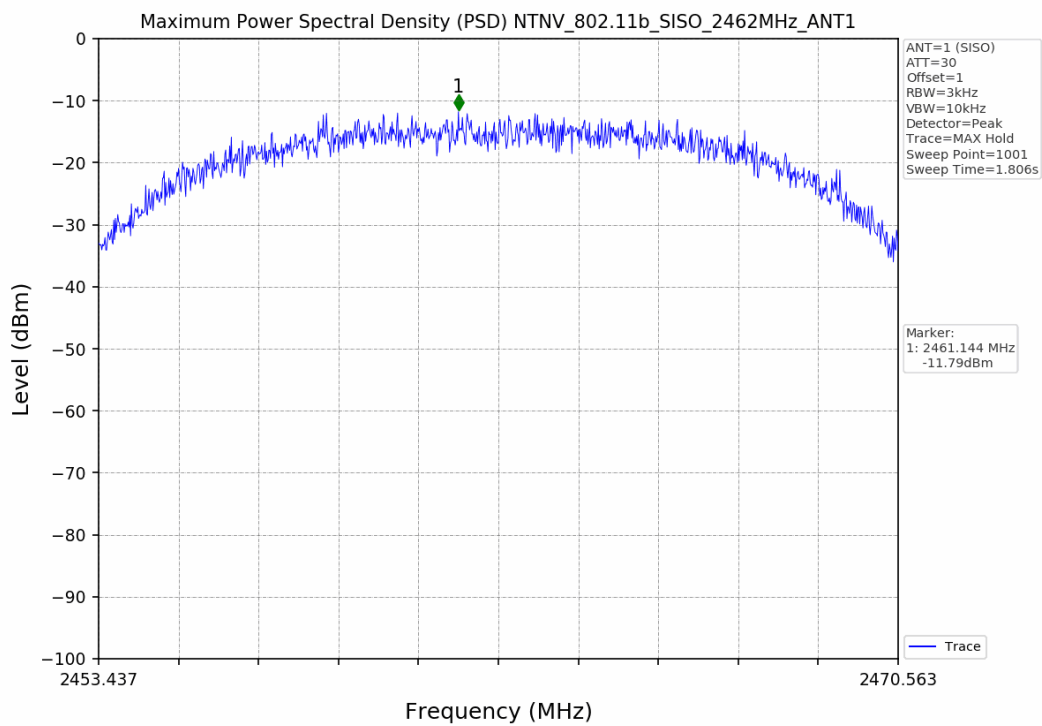
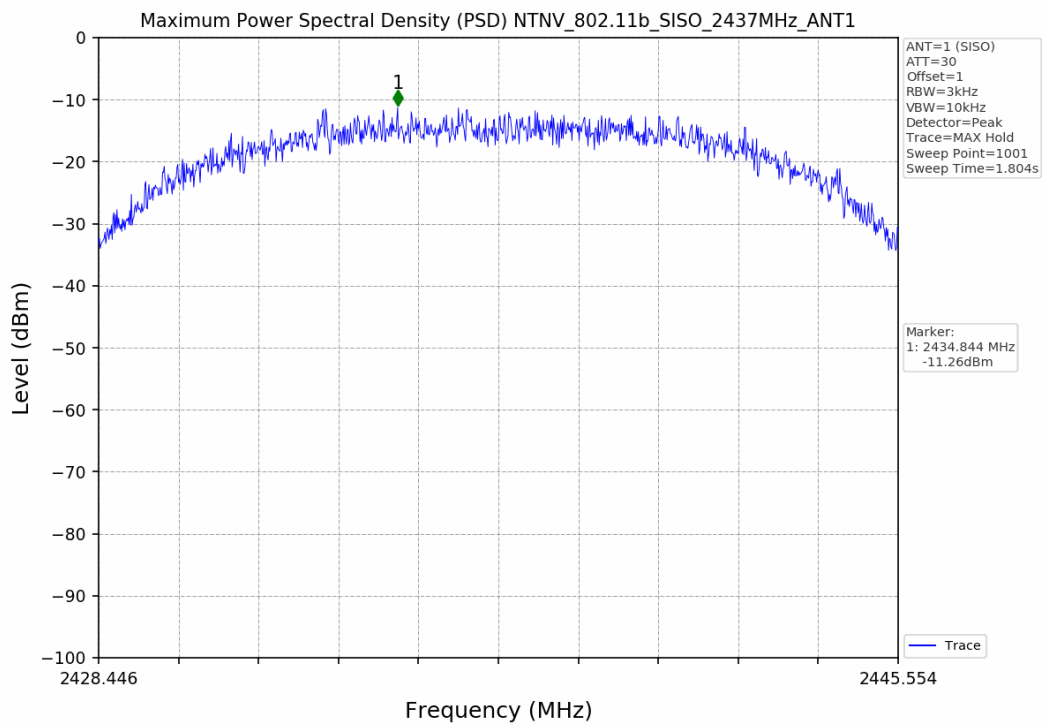
3. Maximum Power Spectral Density (PSD)

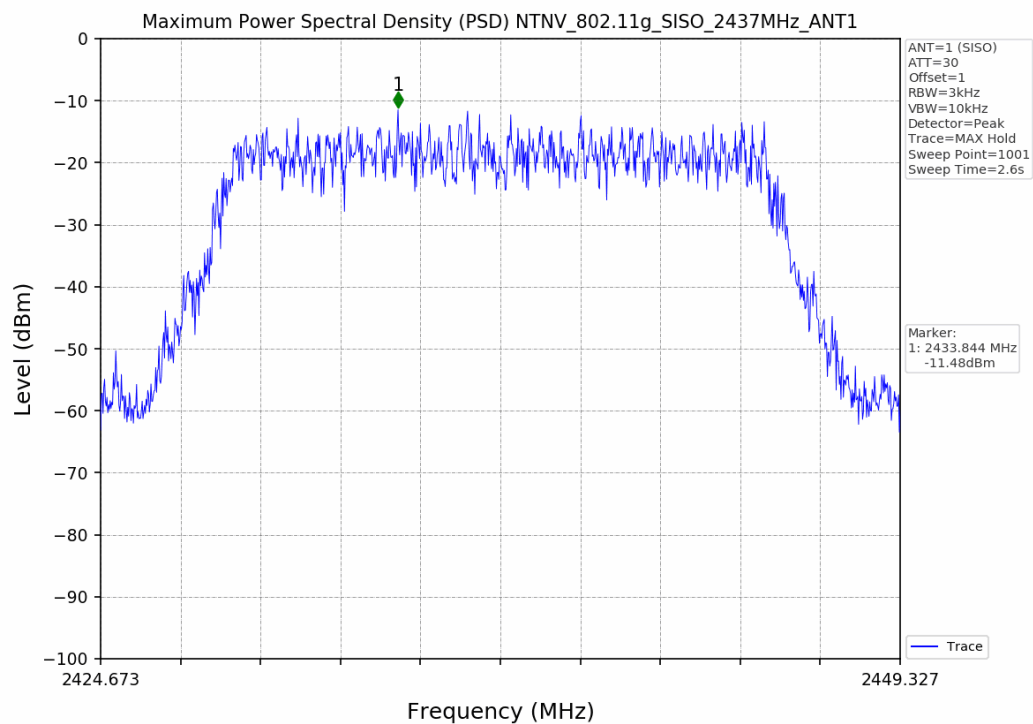
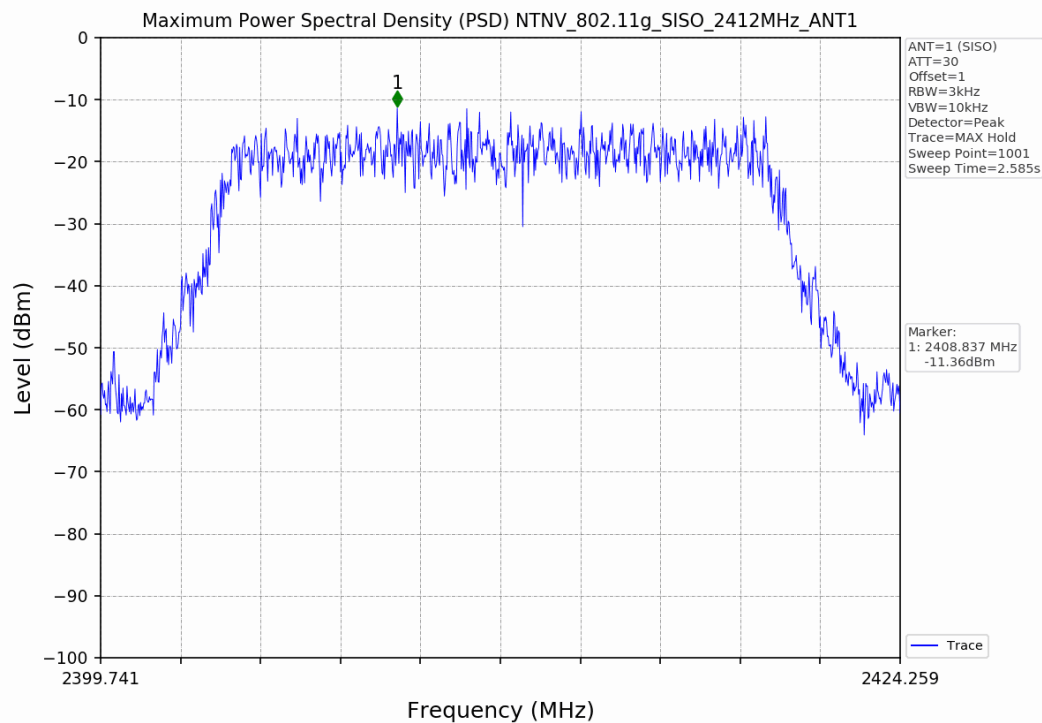
3.1 Test Result

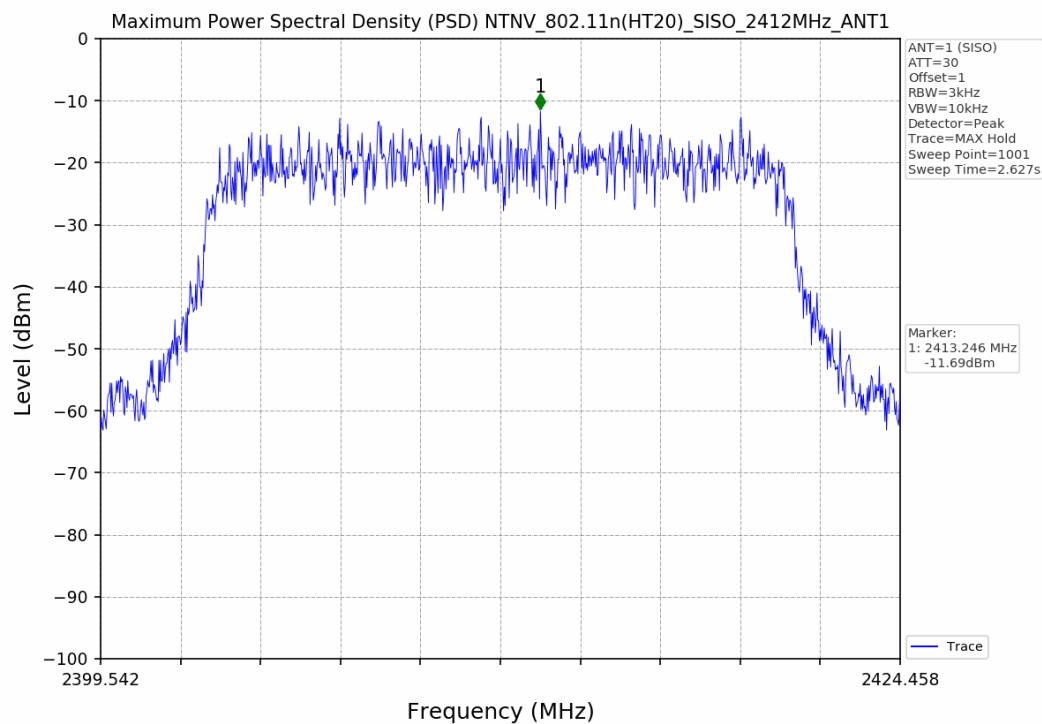
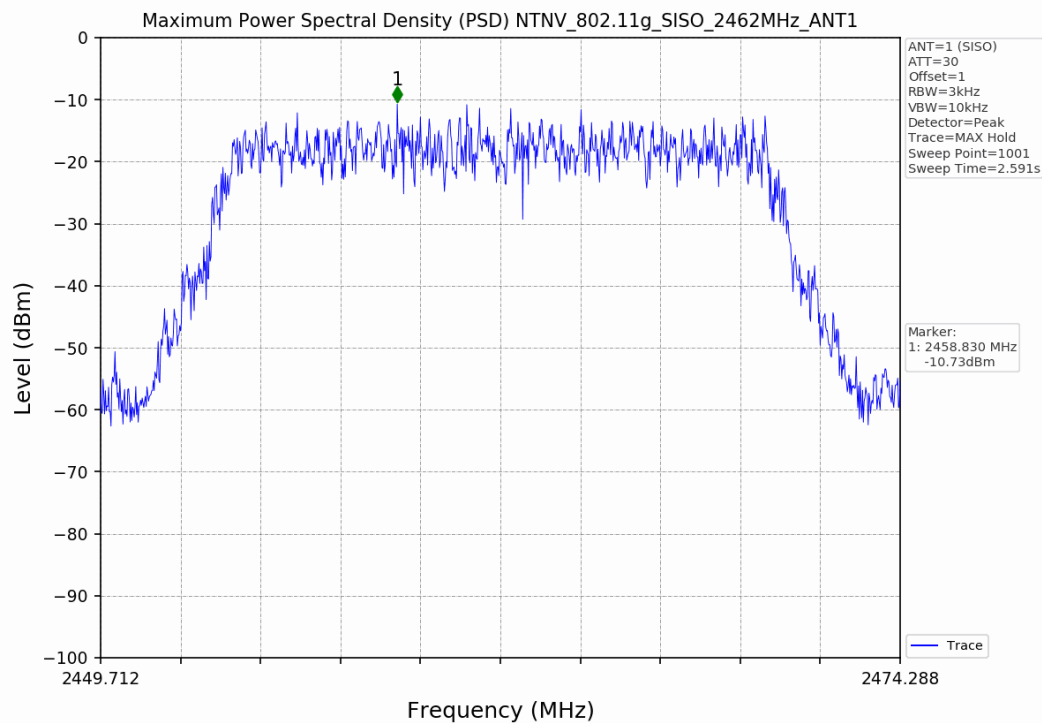
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-11.25	≤ 8	PASS
	2437	SISO	-11.26	≤ 8	PASS
	2462	SISO	-11.79	≤ 8	PASS
802.11g	2412	SISO	-11.36	≤ 8	PASS
	2437	SISO	-11.48	≤ 8	PASS
	2462	SISO	-10.73	≤ 8	PASS
802.11n(HT20)	2412	SISO	-11.69	≤ 8	PASS
	2437	SISO	-11.96	≤ 8	PASS
	2462	SISO	-11.17	≤ 8	PASS
802.11n(HT40)	2422	SISO	-13.47	≤ 8	PASS
	2437	SISO	-14.14	≤ 8	PASS
	2452	SISO	-13.72	≤ 8	PASS

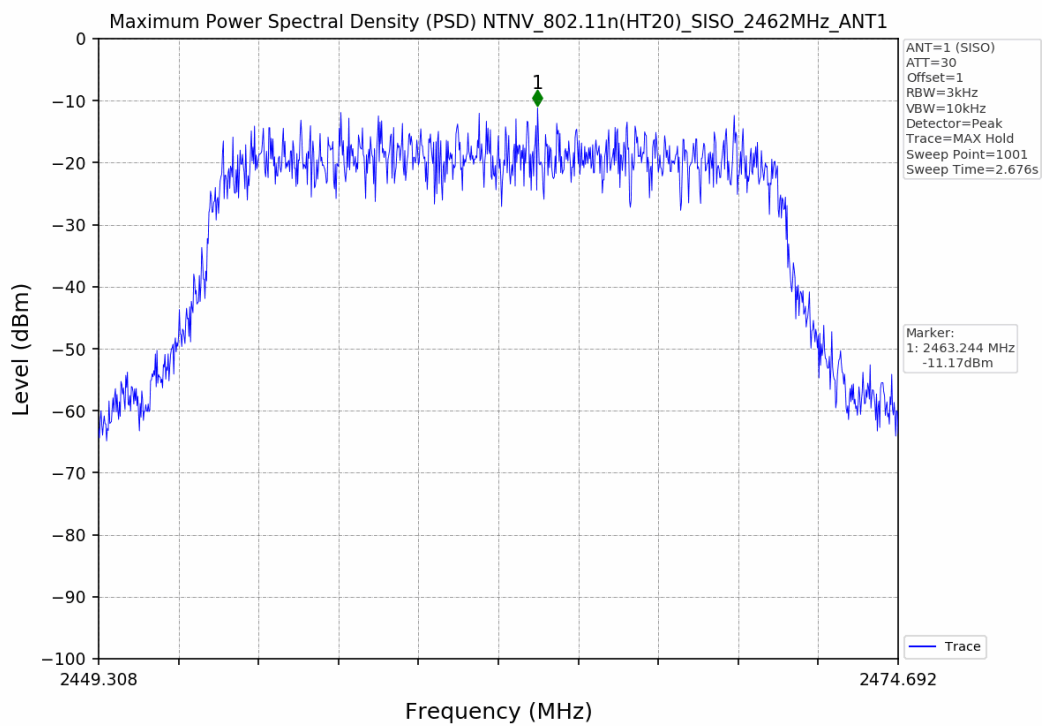
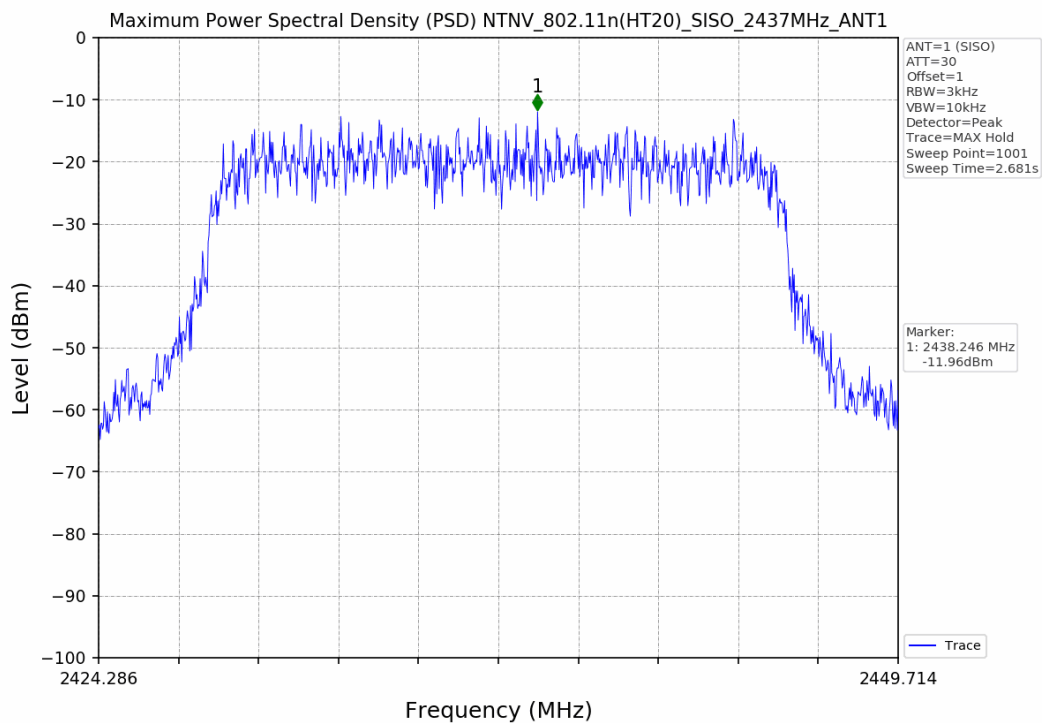
3.2 Test Graph

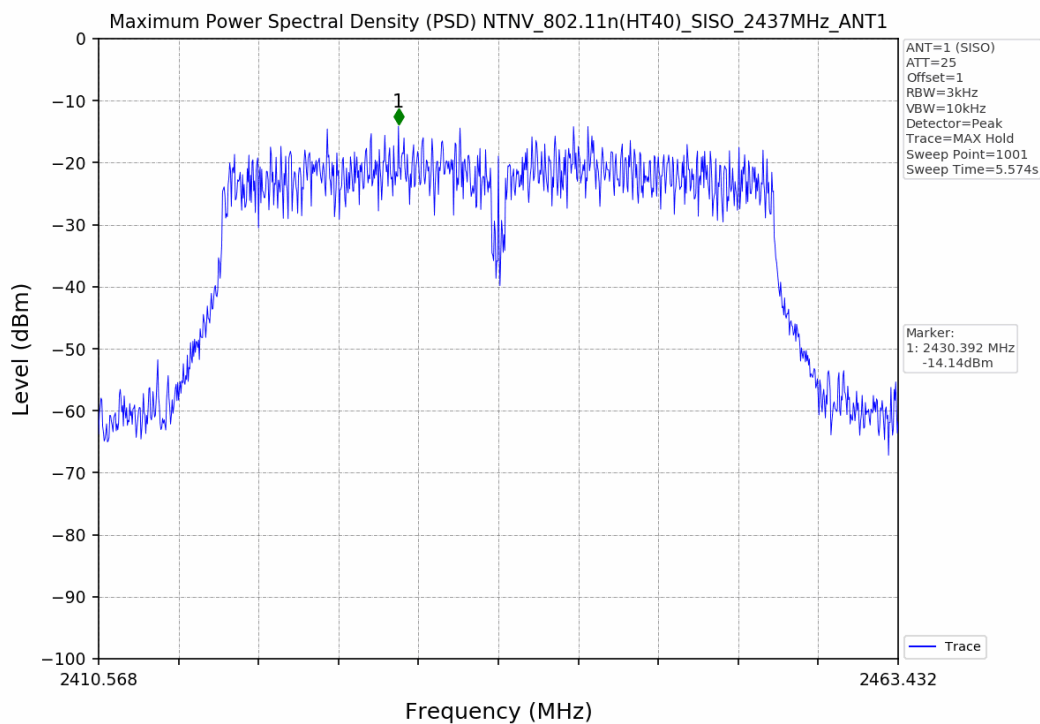
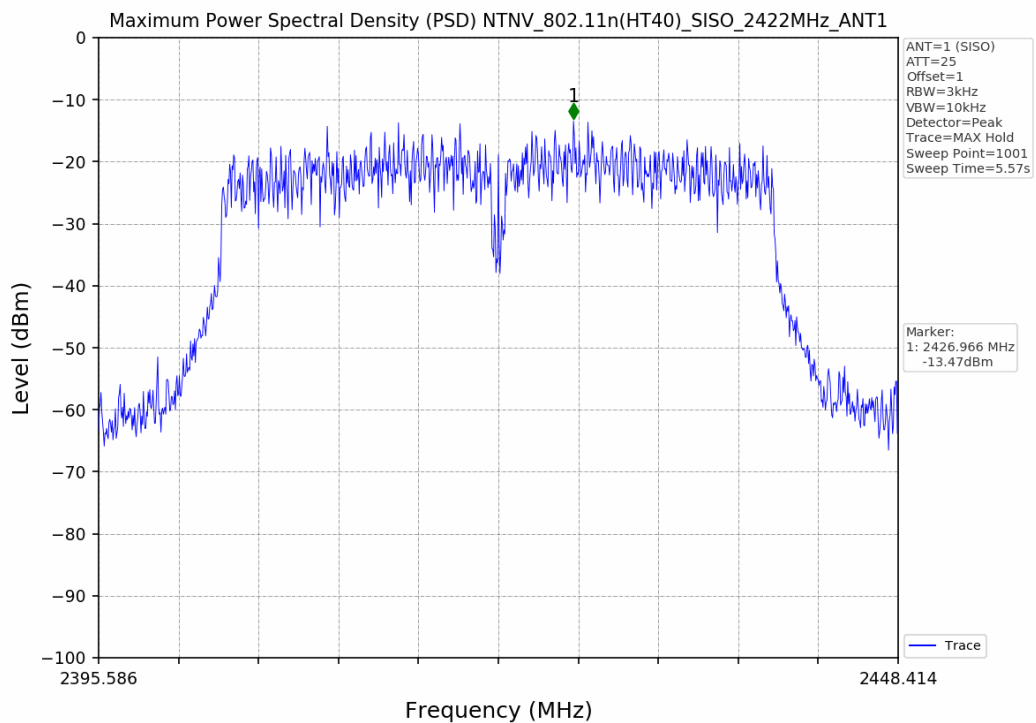


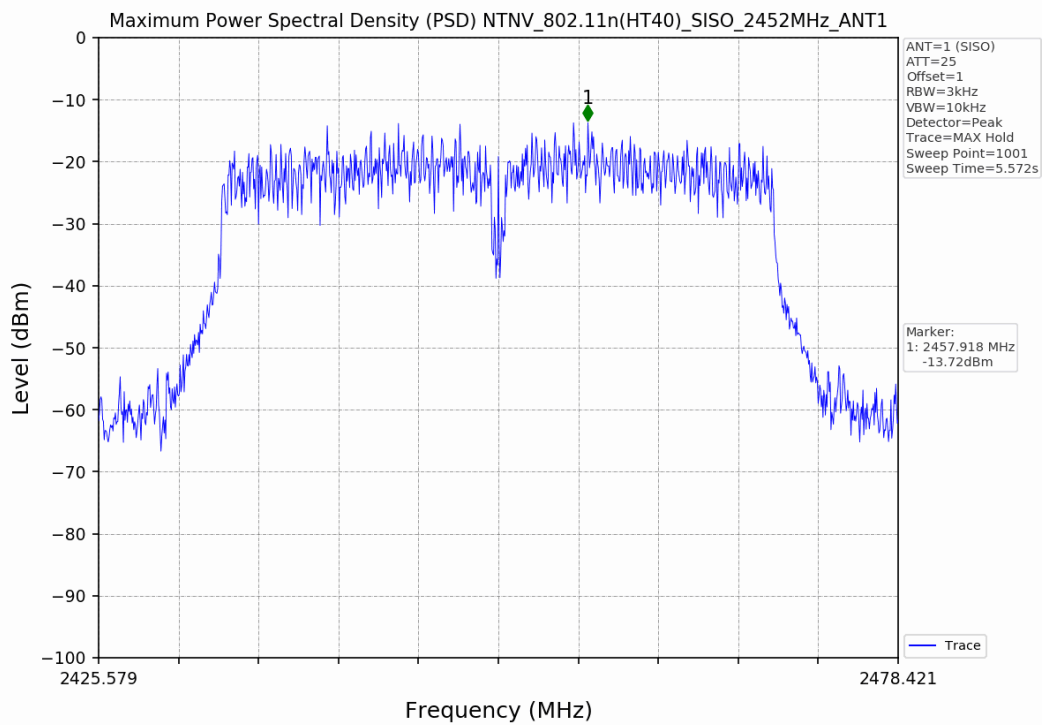












4. Unwanted Emissions in Non-restricted Frequency Bands

4.1 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	-15.95	PASS
	2437	SISO	1	Refer to test graph	-15.95	PASS
	2462	SISO	1	Refer to test graph	-15.95	PASS
802.11g	2412	SISO	1	Refer to test graph	-17.00	PASS
	2437	SISO	1	Refer to test graph	-17.00	PASS
	2462	SISO	1	Refer to test graph	-17.00	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-18.01	PASS
	2437	SISO	1	Refer to test graph	-18.01	PASS
	2462	SISO	1	Refer to test graph	-18.01	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-22.03	PASS
	2437	SISO	1	Refer to test graph	-22.03	PASS
	2452	SISO	1	Refer to test graph	-22.03	PASS

4.2 Test Graph

