



Appendix for 15.247

1. Bandwidth

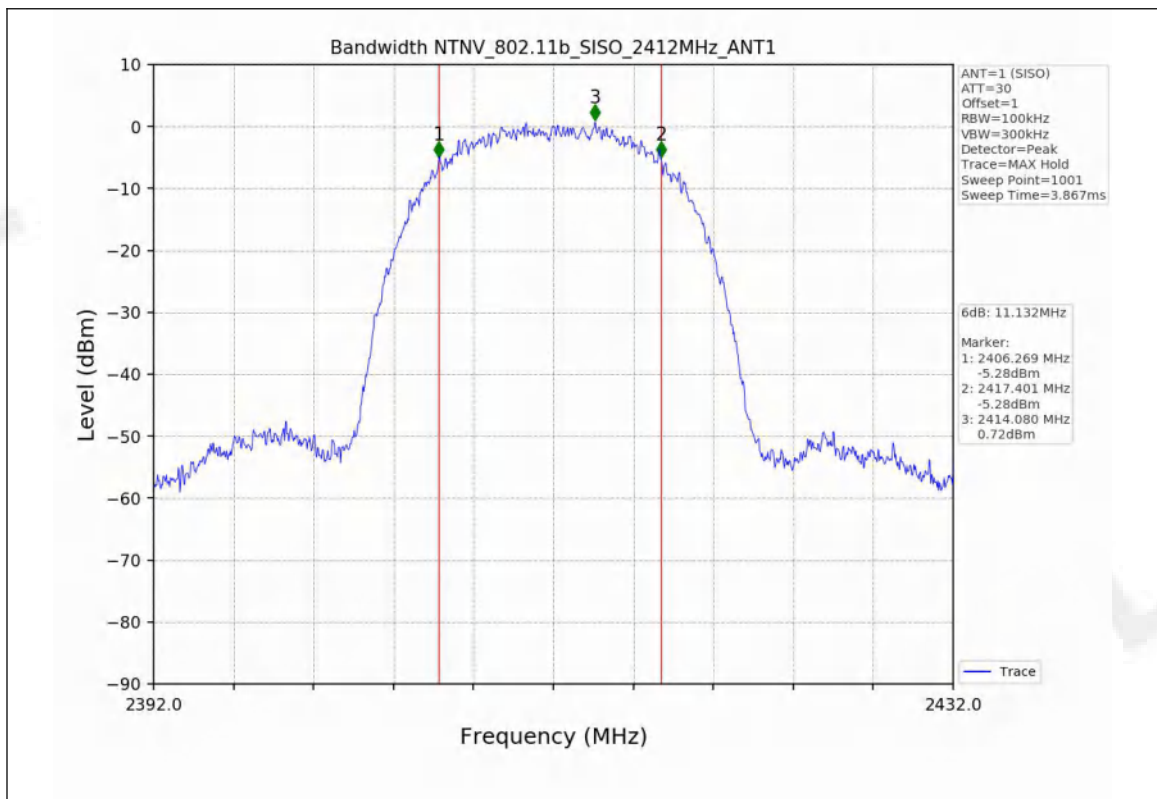
1.1 Test Result

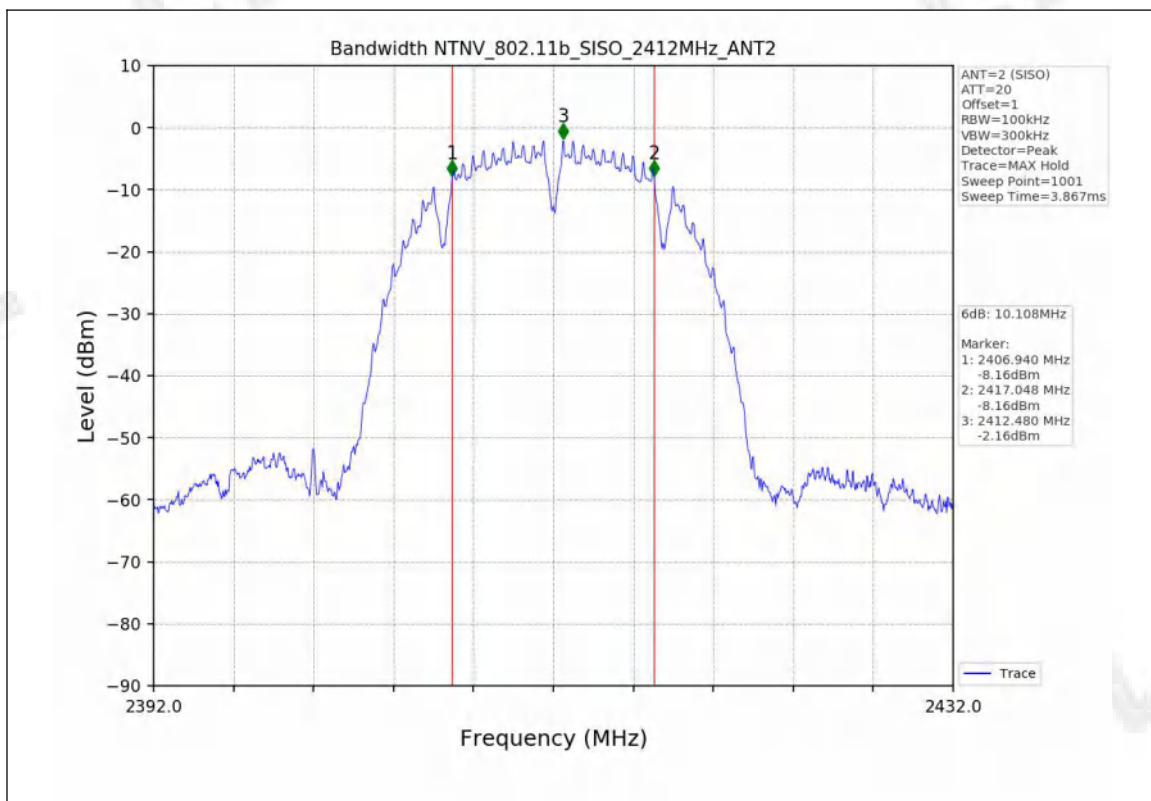
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	11.132	≥ 0.5	PASS
			2	10.108	≥ 0.5	PASS
	2437	SISO	1	11.123	≥ 0.5	PASS
			2	10.488	≥ 0.5	PASS
	2462	SISO	1	11.126	≥ 0.5	PASS
			2	10.490	≥ 0.5	PASS
802.11g	2412	SISO	1	16.520	≥ 0.5	PASS
			2	16.408	≥ 0.5	PASS
	2437	SISO	1	16.522	≥ 0.5	PASS
			2	16.426	≥ 0.5	PASS
	2462	SISO	1	10.614	≥ 0.5	PASS
			2	16.404	≥ 0.5	PASS
802.11n(HT20)	2412	SISO	1	16.431	≥ 0.5	PASS
			2	17.308	≥ 0.5	PASS
	2437	SISO	1	13.899	≥ 0.5	PASS
			2	15.090	≥ 0.5	PASS
	2462	SISO	1	17.433	≥ 0.5	PASS
			2	16.719	≥ 0.5	PASS
802.11n(HT40)	2422	SISO	1	36.057	≥ 0.5	PASS
			2	35.865	≥ 0.5	PASS
	2437	SISO	1	23.874	≥ 0.5	PASS
			2	26.347	≥ 0.5	PASS
	2452	SISO	1	35.398	≥ 0.5	PASS
			2	35.789	≥ 0.5	PASS

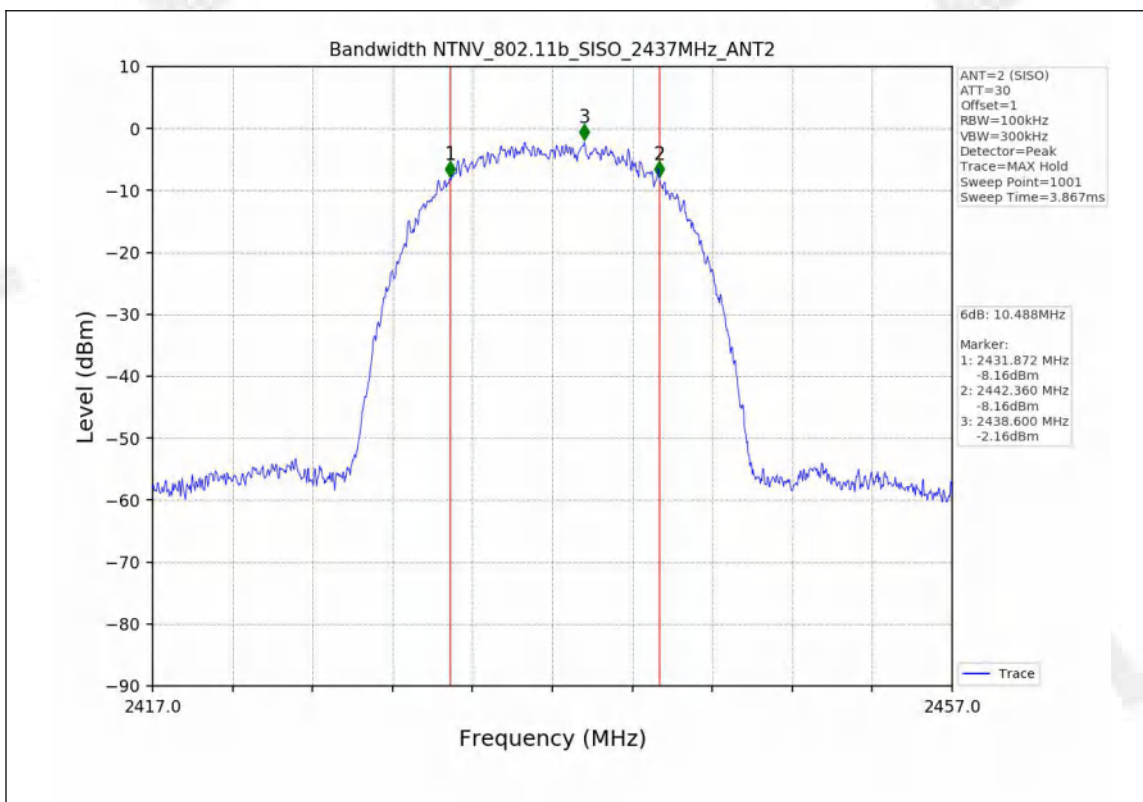
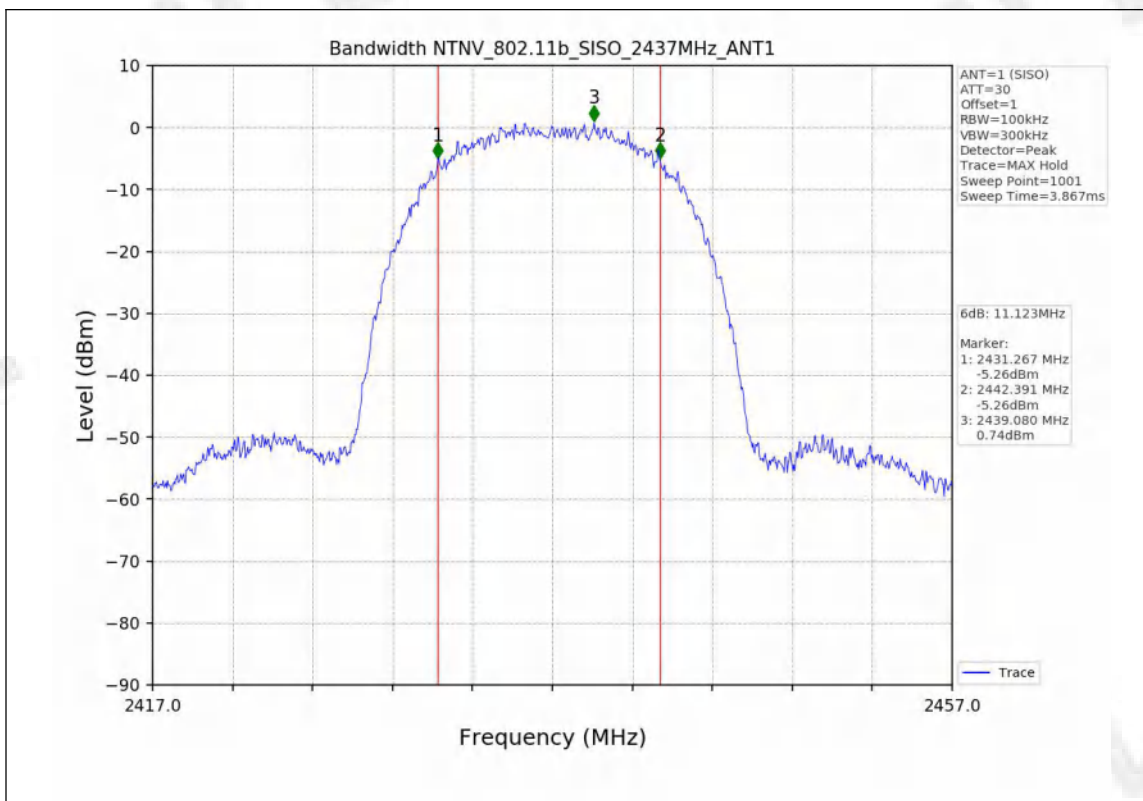
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	13.757	Only for Report Use
			2	13.881	Only for Report Use
	2437	SISO	1	13.721	Only for Report Use
			2	13.680	Only for Report Use
	2462	SISO	1	13.768	Only for Report Use
			2	13.785	Only for Report Use
802.11g	2412	SISO	1	16.778	Only for Report Use
			2	17.028	Only for Report Use
	2437	SISO	1	16.826	Only for Report Use
			2	16.983	Only for Report Use

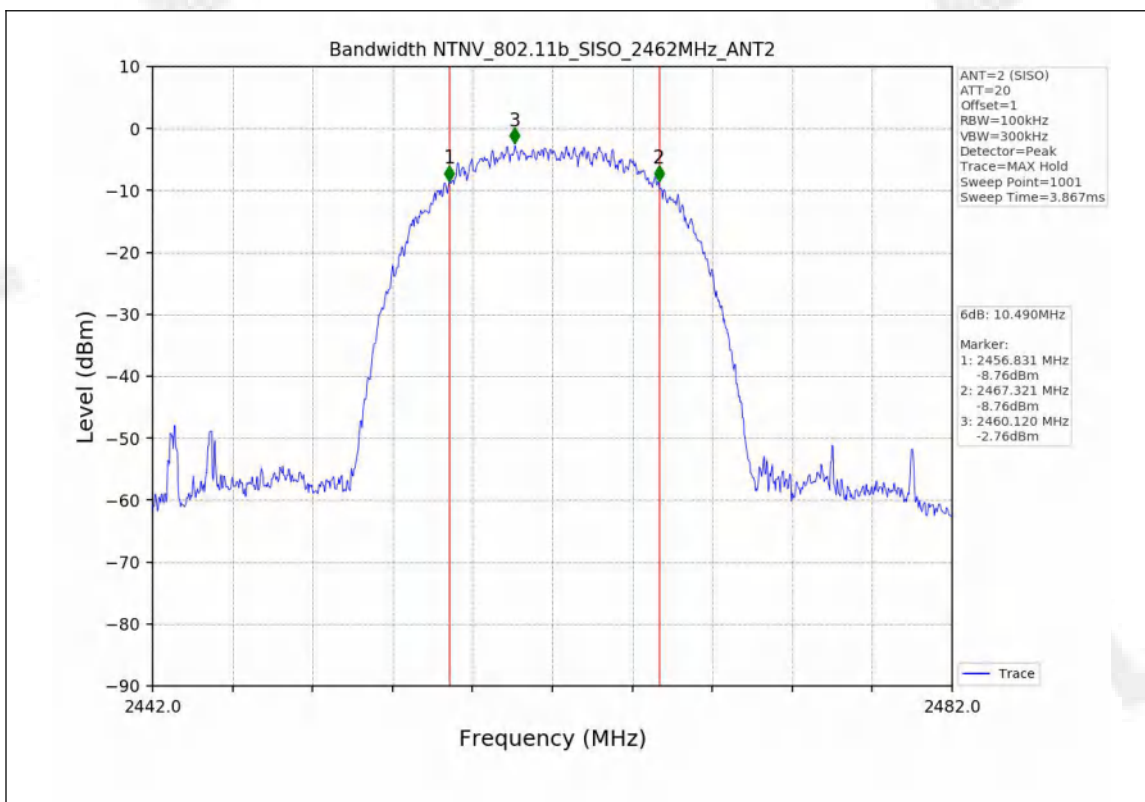
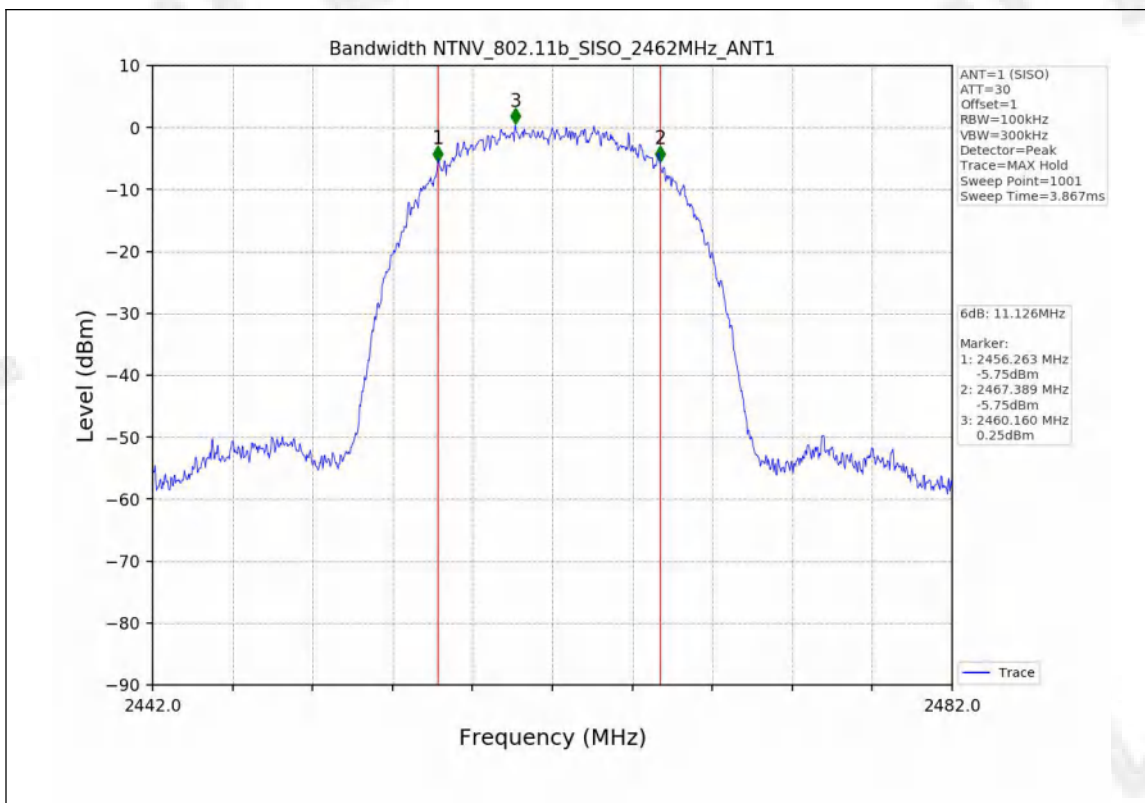
	2462	SISO	1	13.780	Only for Report Use
			2	17.074	Only for Report Use
802.11n(HT20)	2412	SISO	1	17.853	Only for Report Use
			2	17.891	Only for Report Use
	2437	SISO	1	17.465	Only for Report Use
			2	17.504	Only for Report Use
	2462	SISO	1	17.867	Only for Report Use
			2	17.838	Only for Report Use
802.11n(HT40)	2422	SISO	1	36.900	Only for Report Use
			2	36.833	Only for Report Use
	2437	SISO	1	35.347	Only for Report Use
			2	35.416	Only for Report Use
	2452	SISO	1	36.470	Only for Report Use
			2	36.548	Only for Report Use

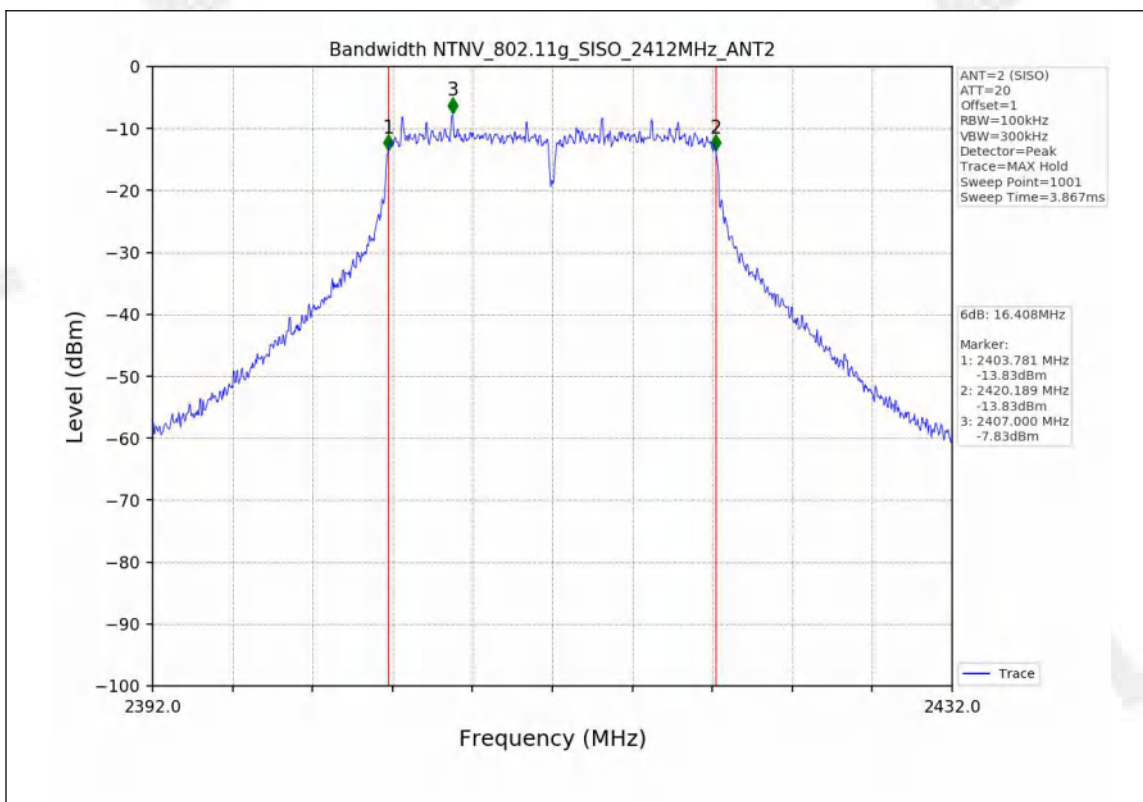
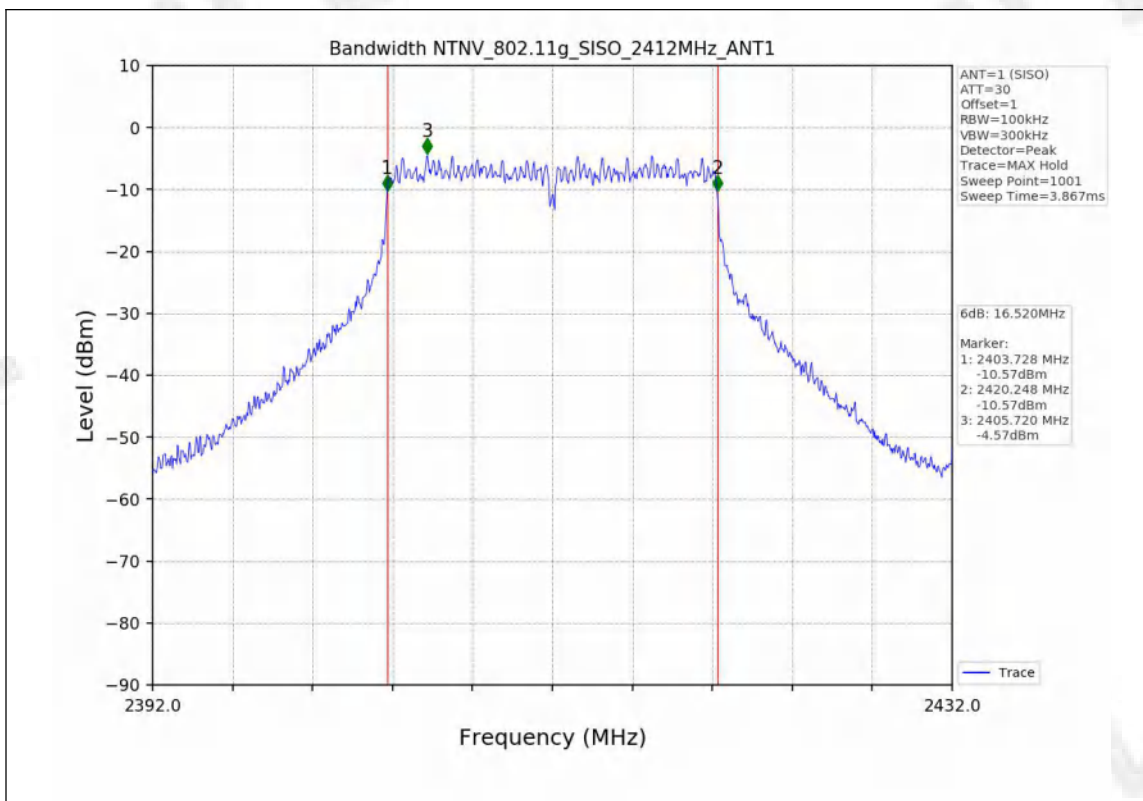
1.2 Test Graph - 6dB Bandwidth

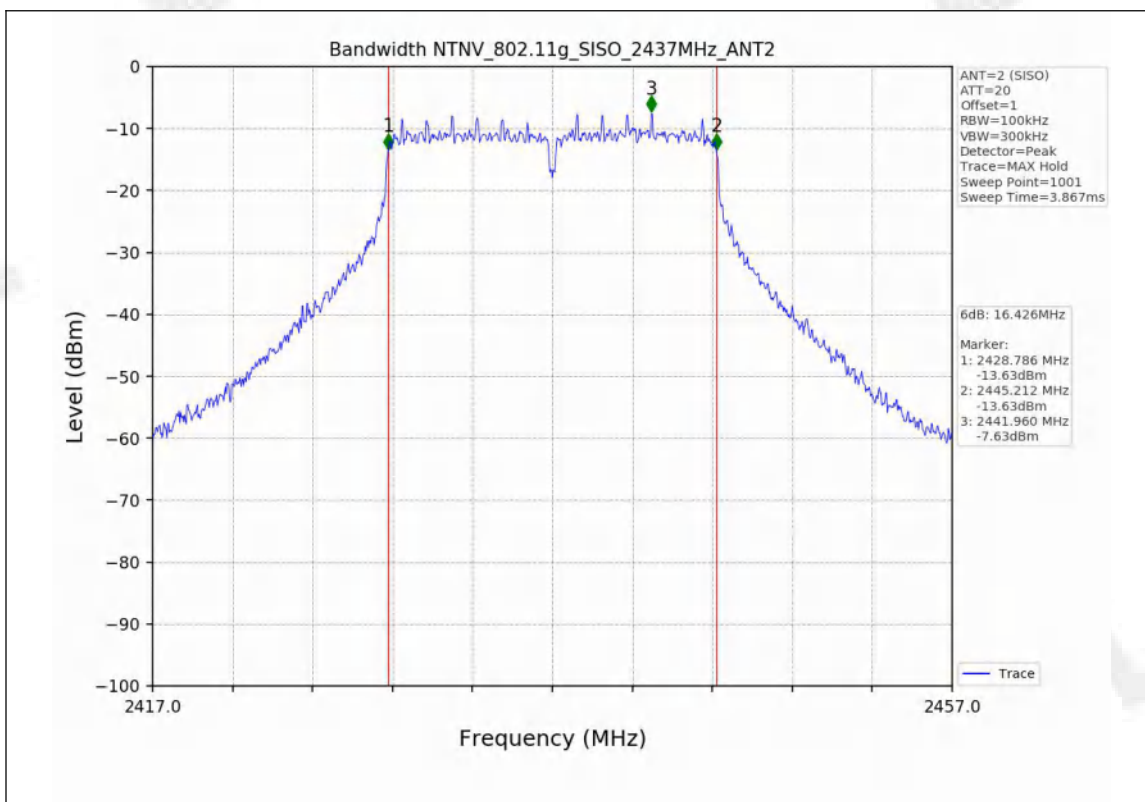
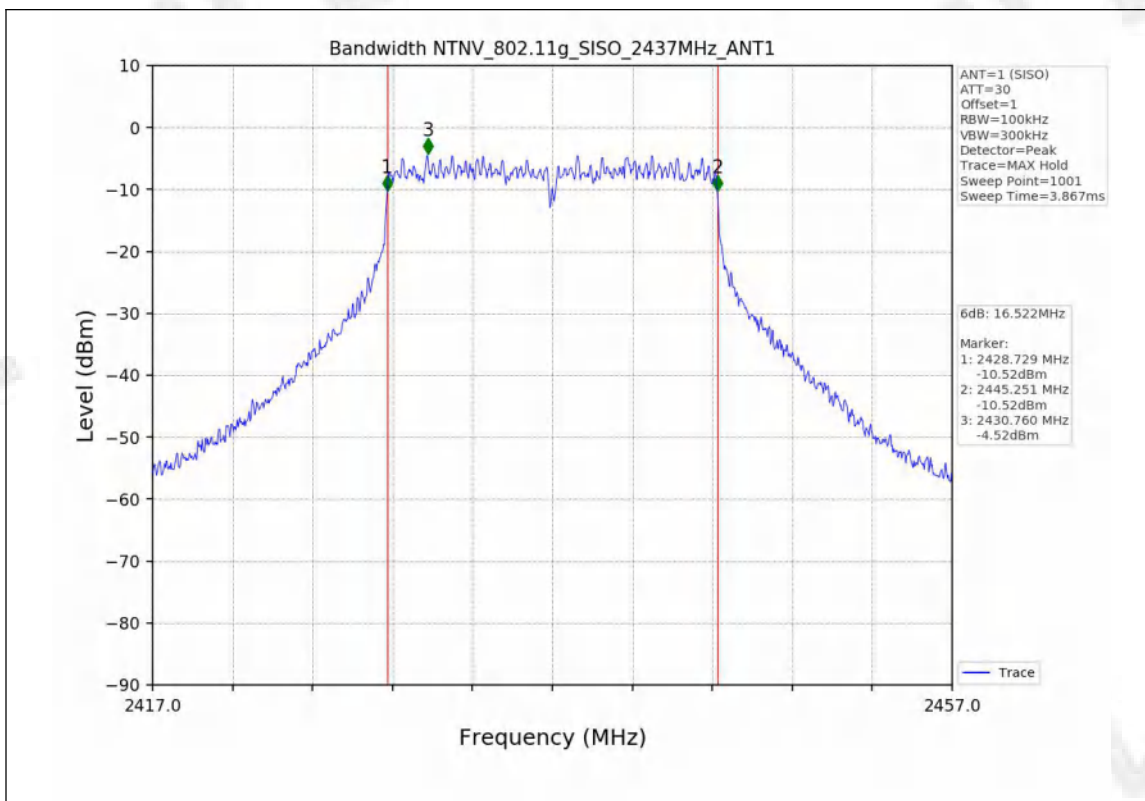


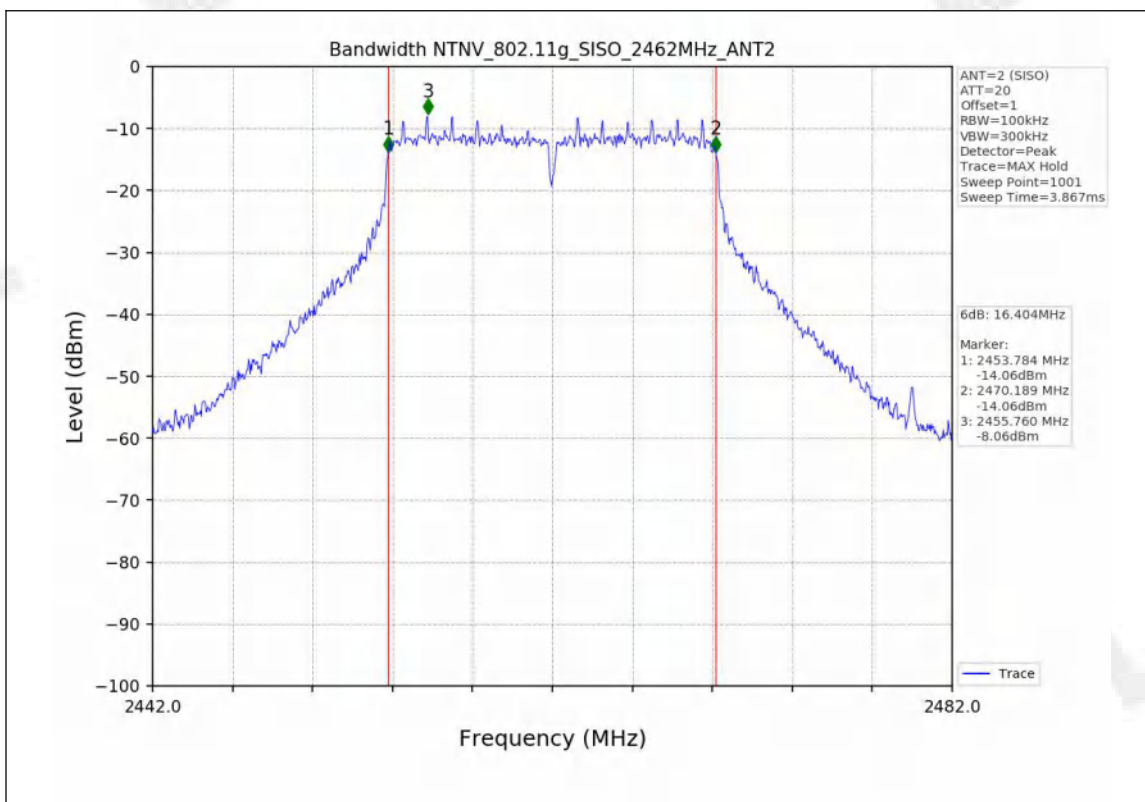
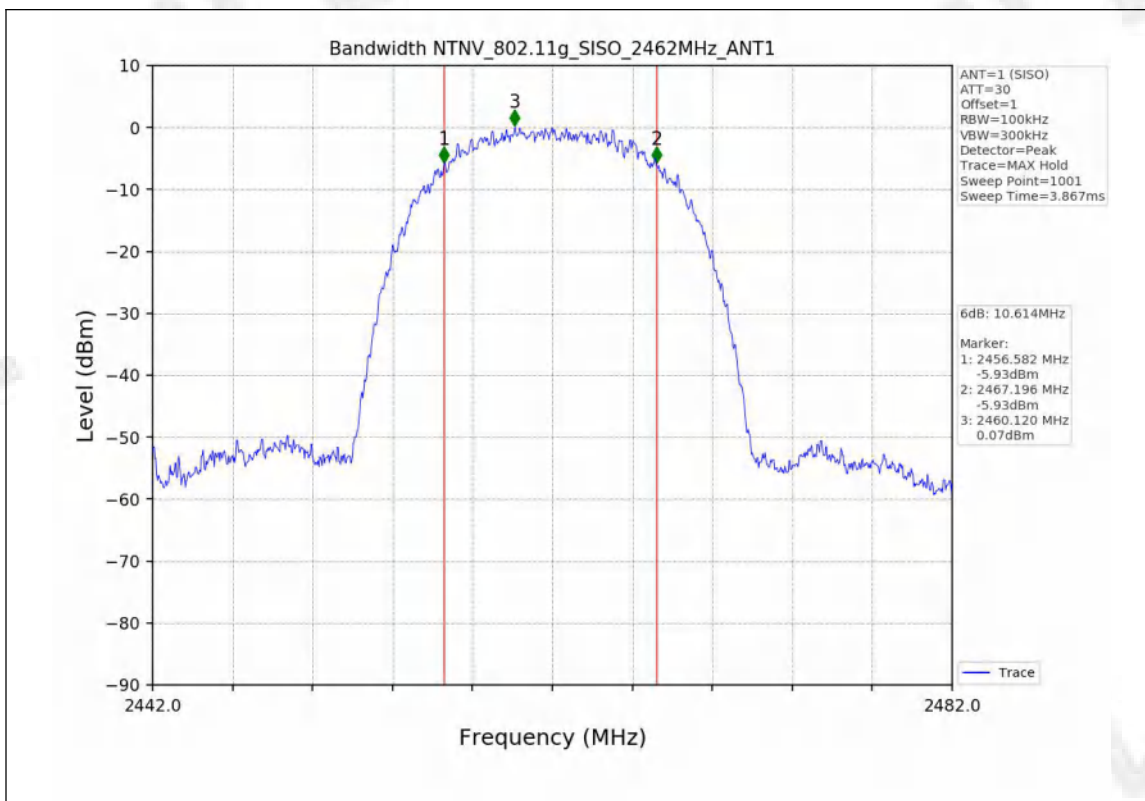


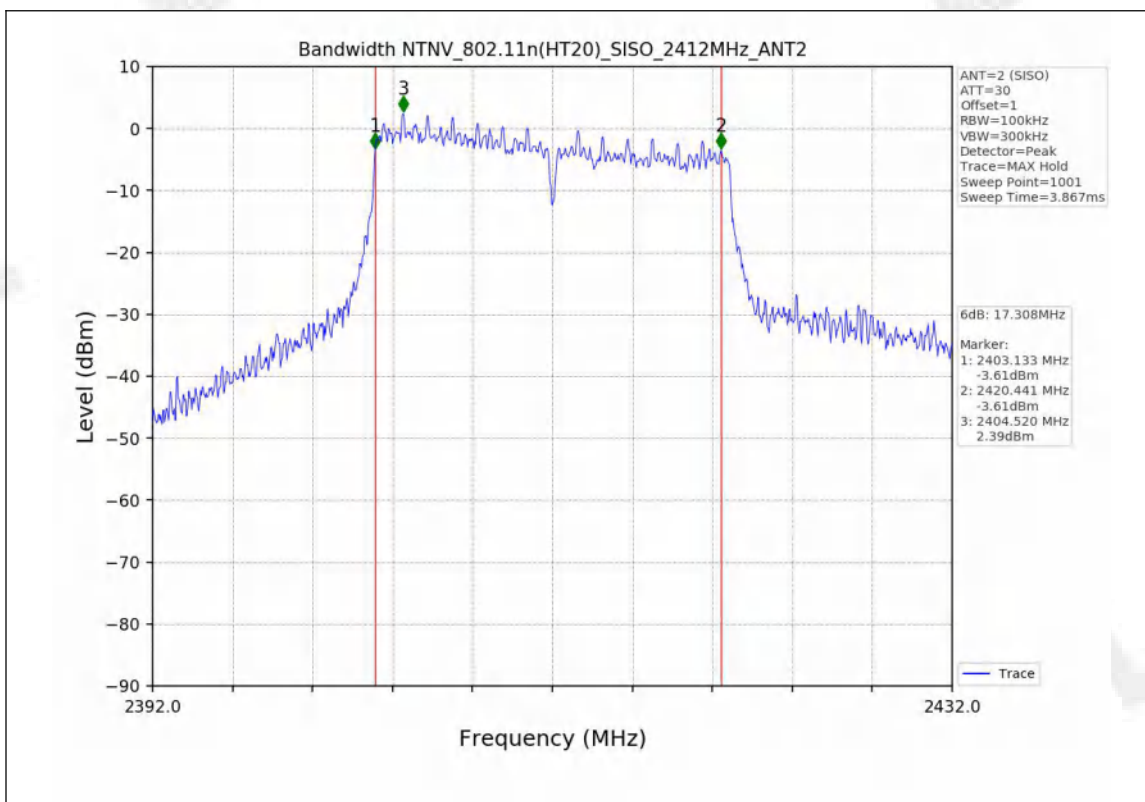
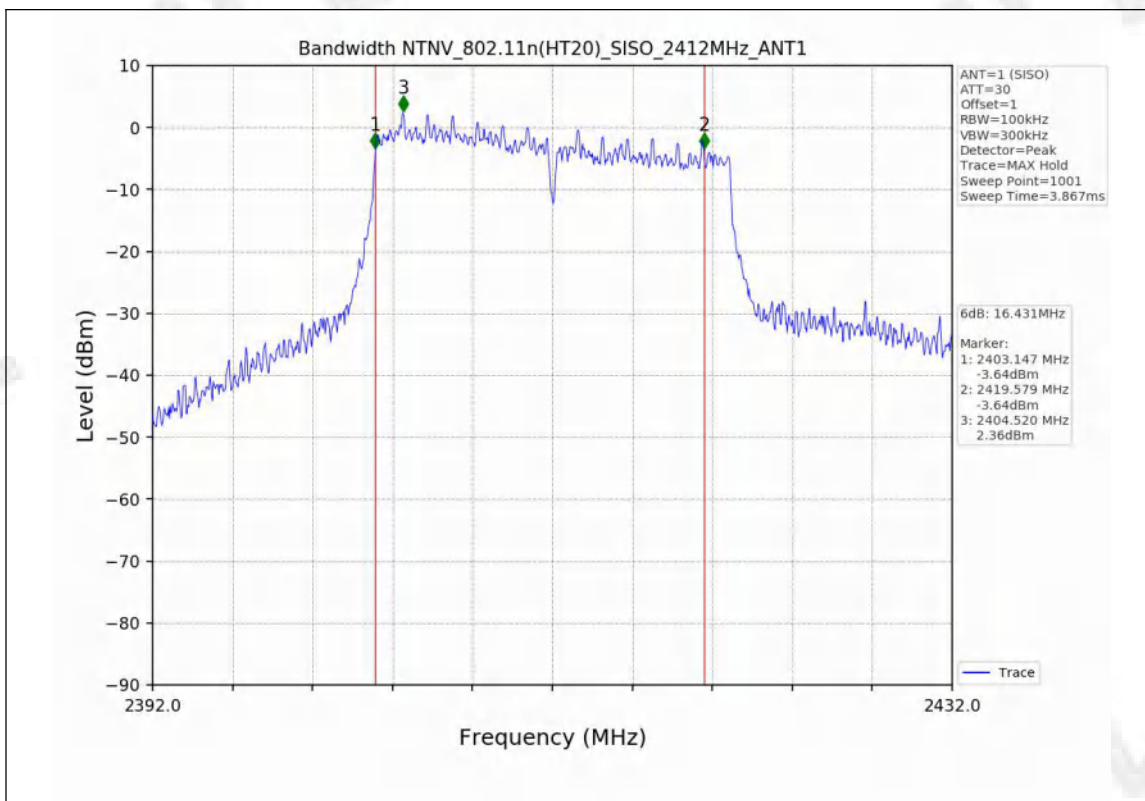


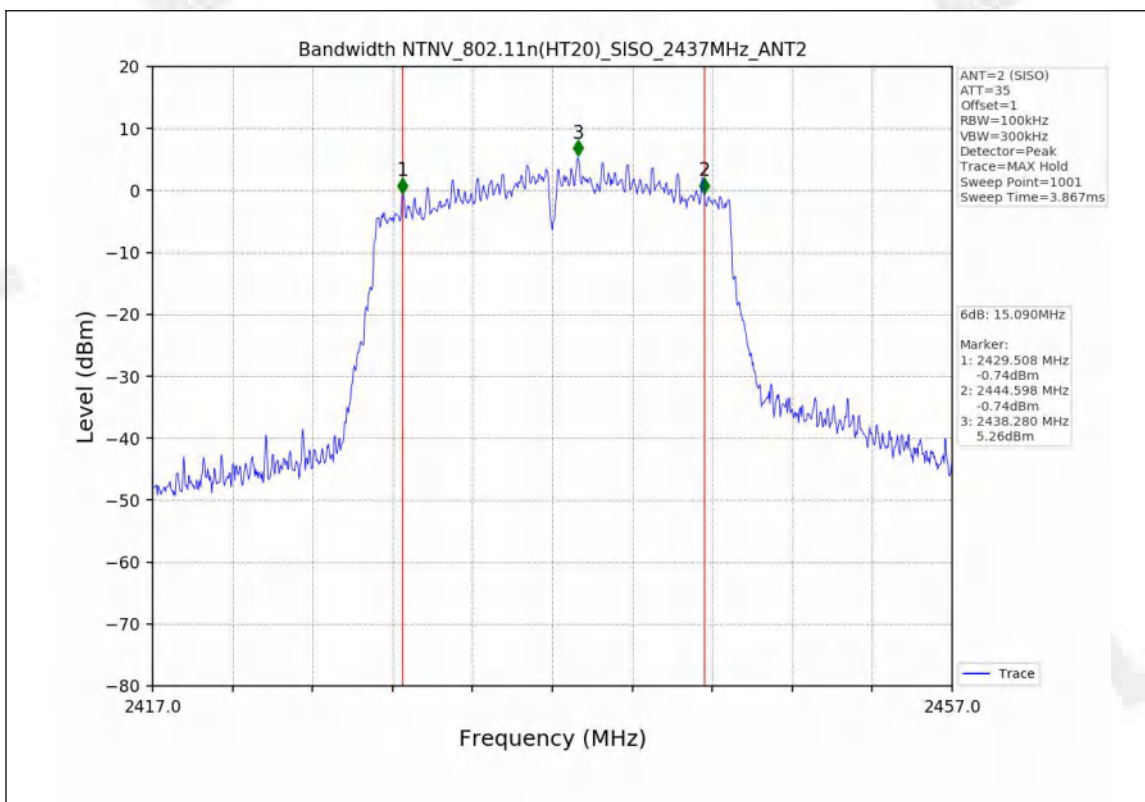
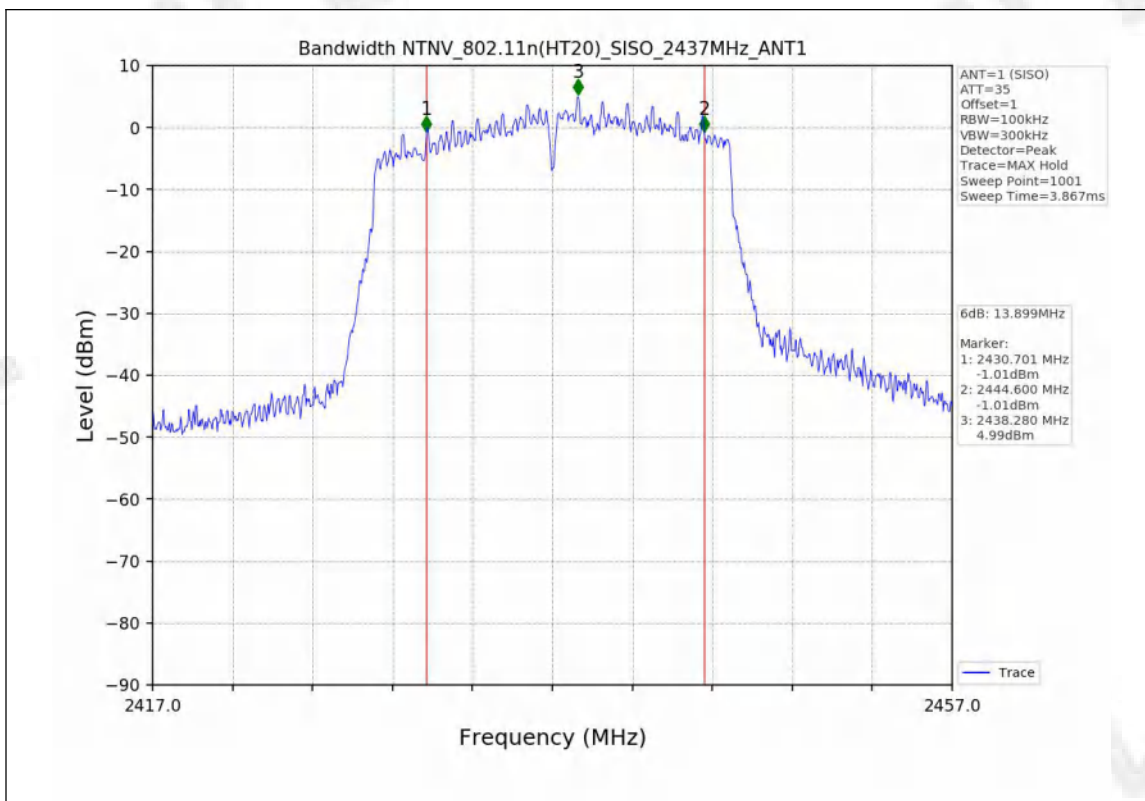


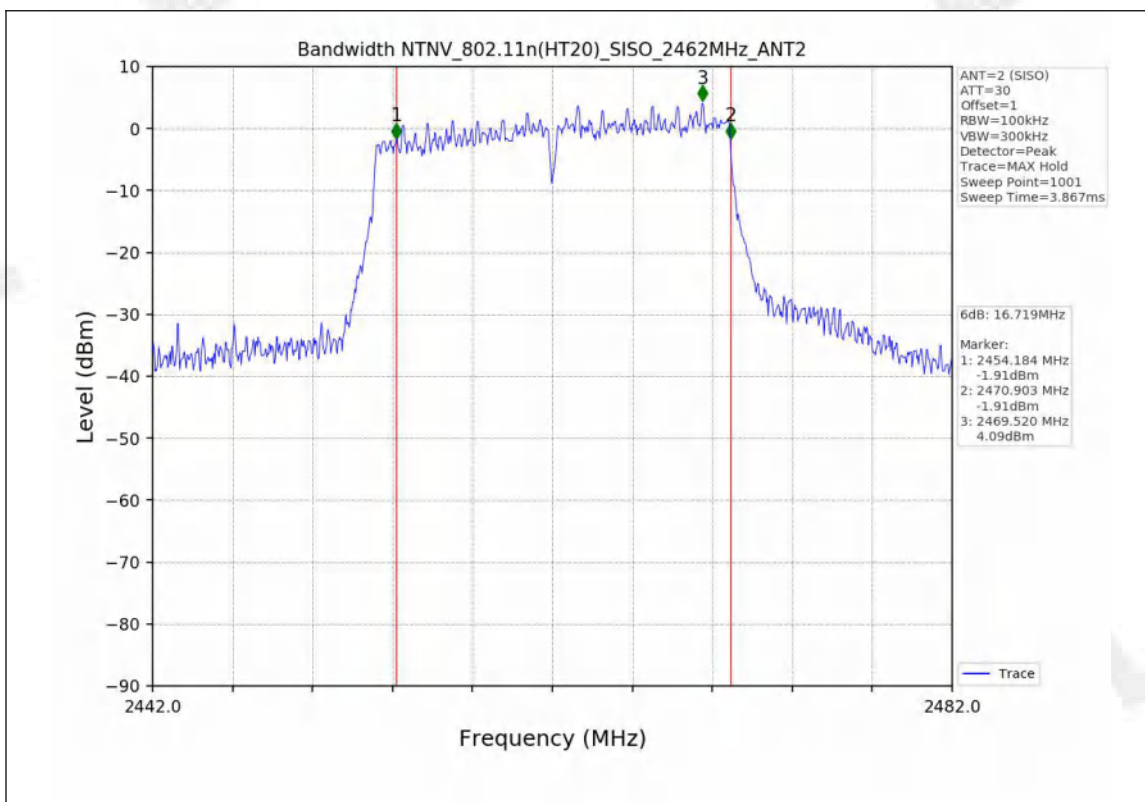
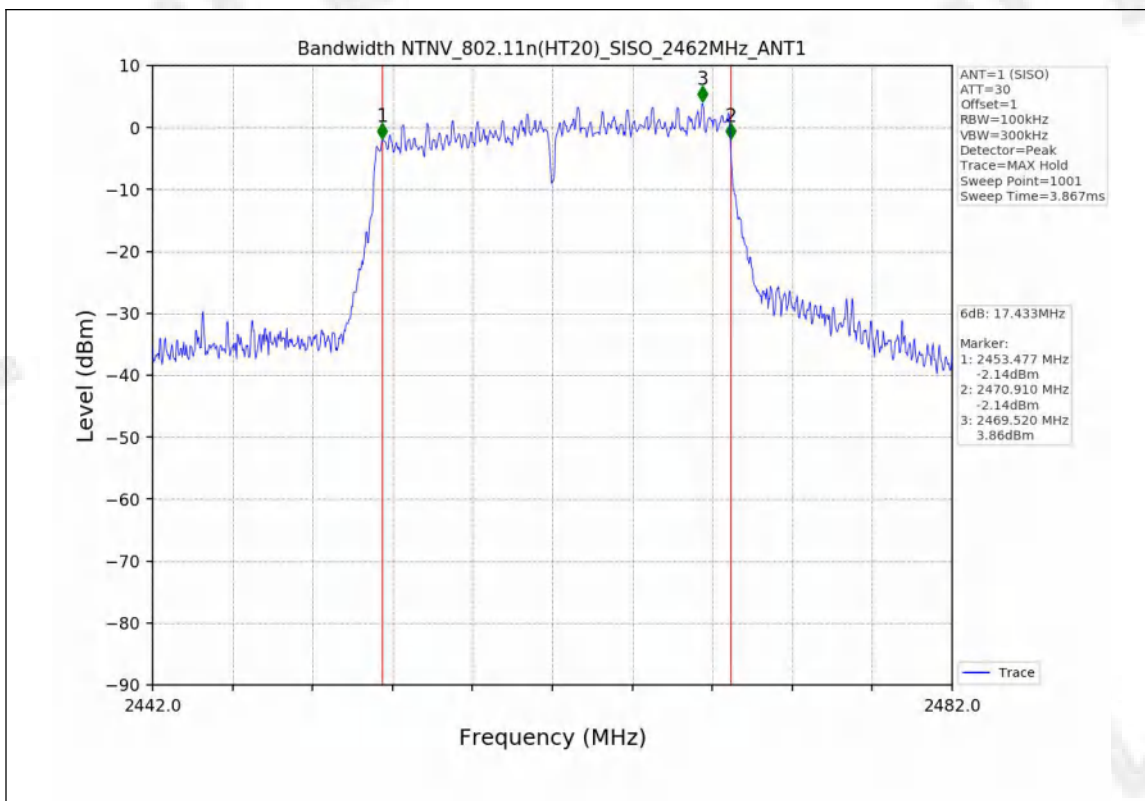


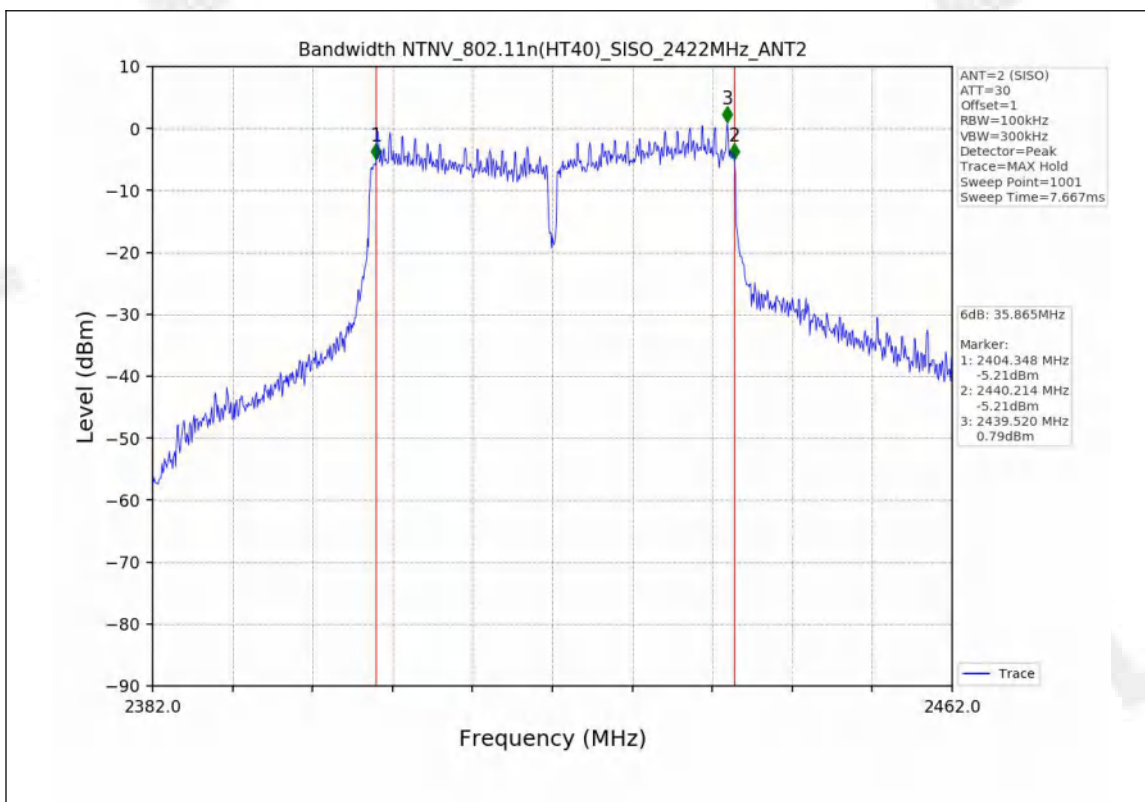
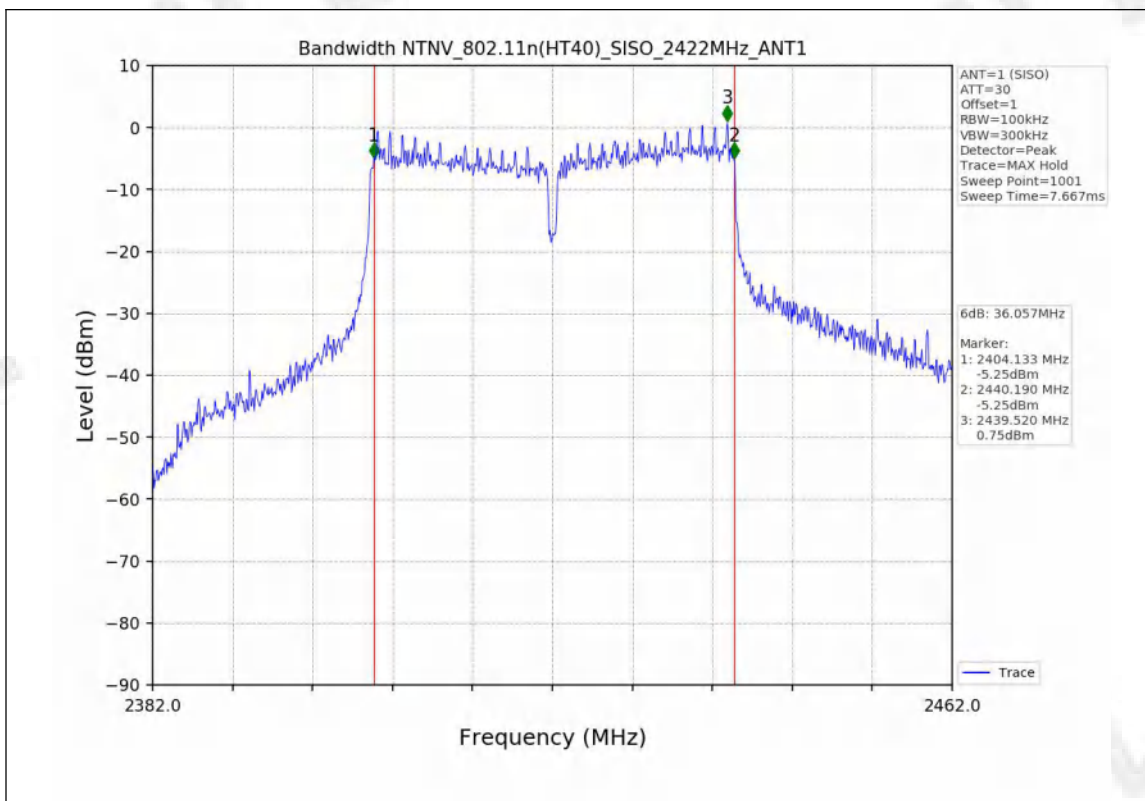


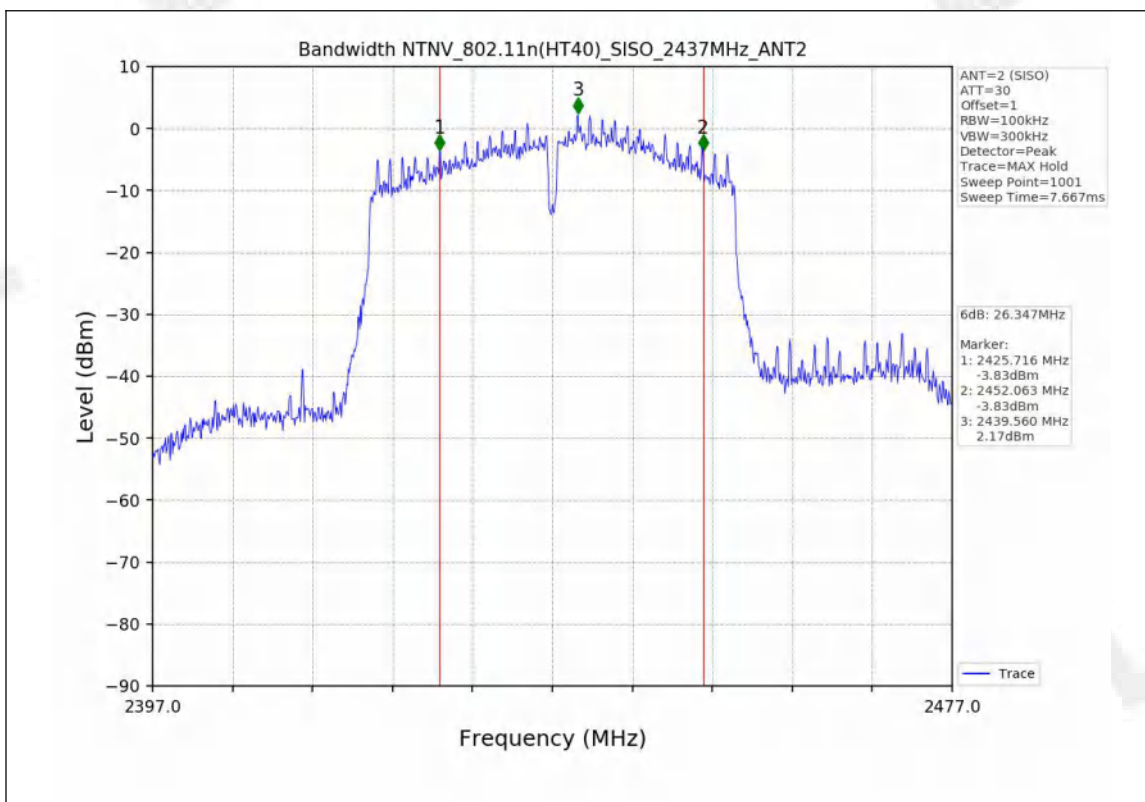
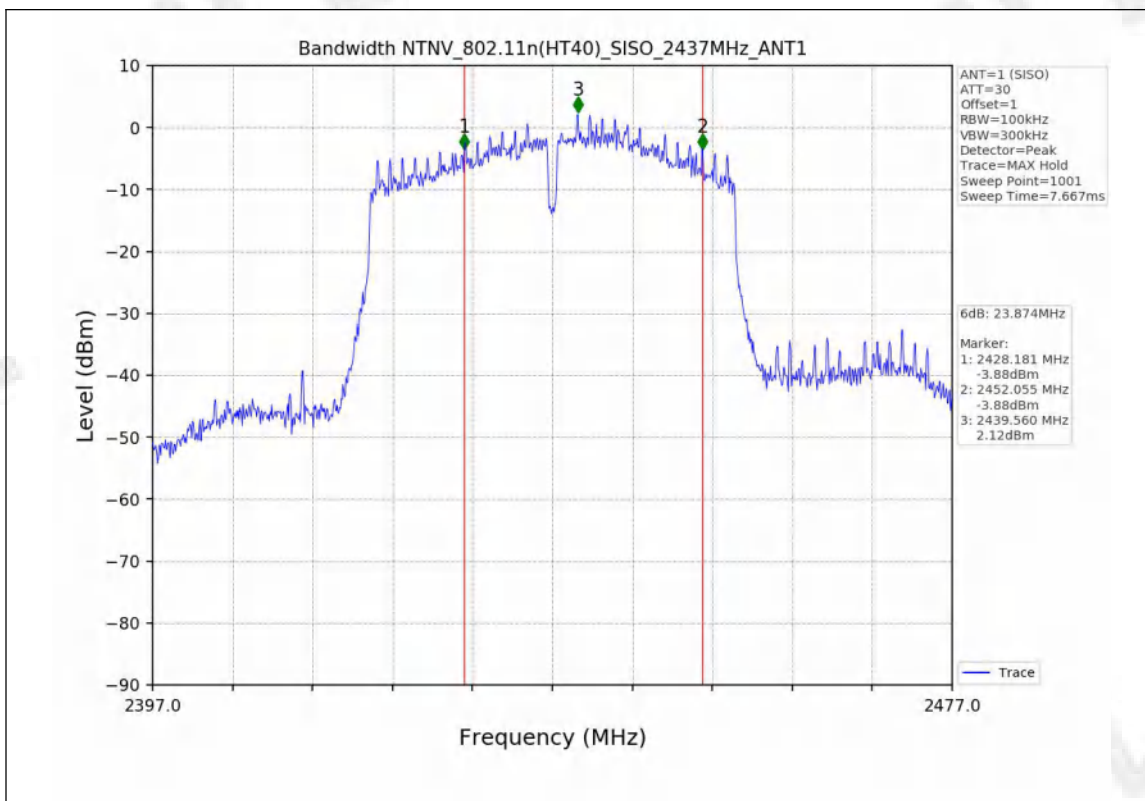


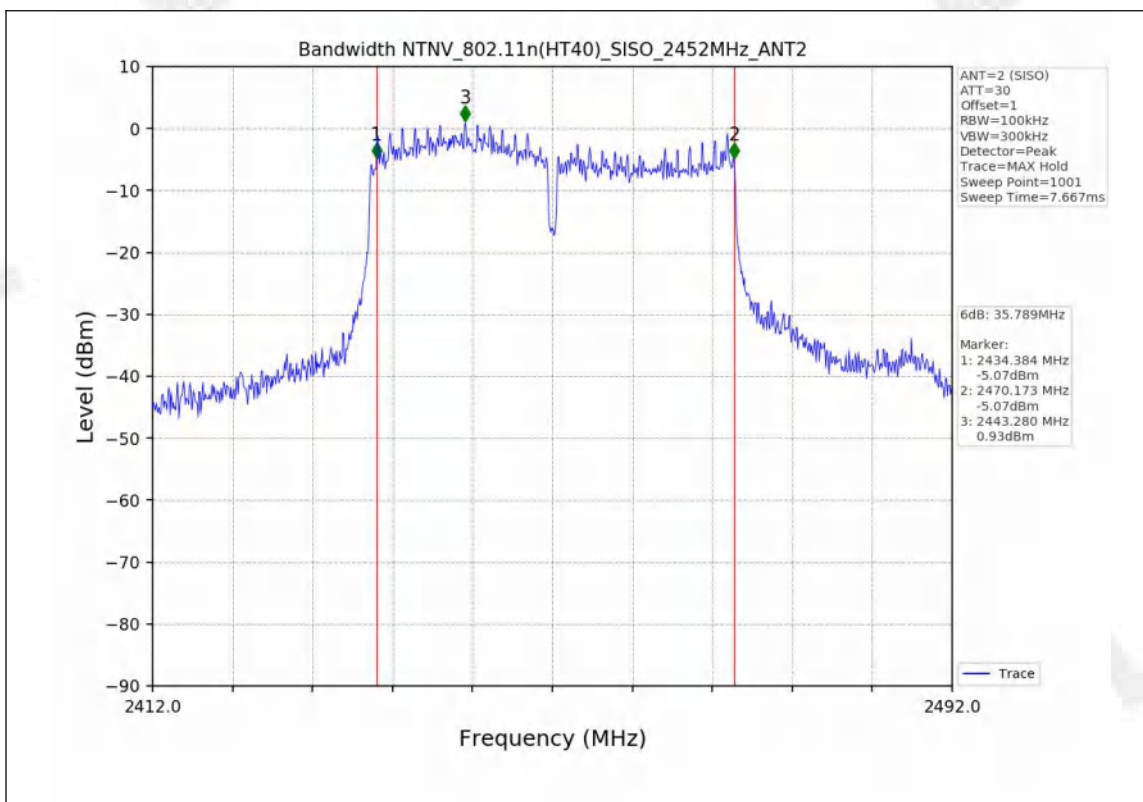
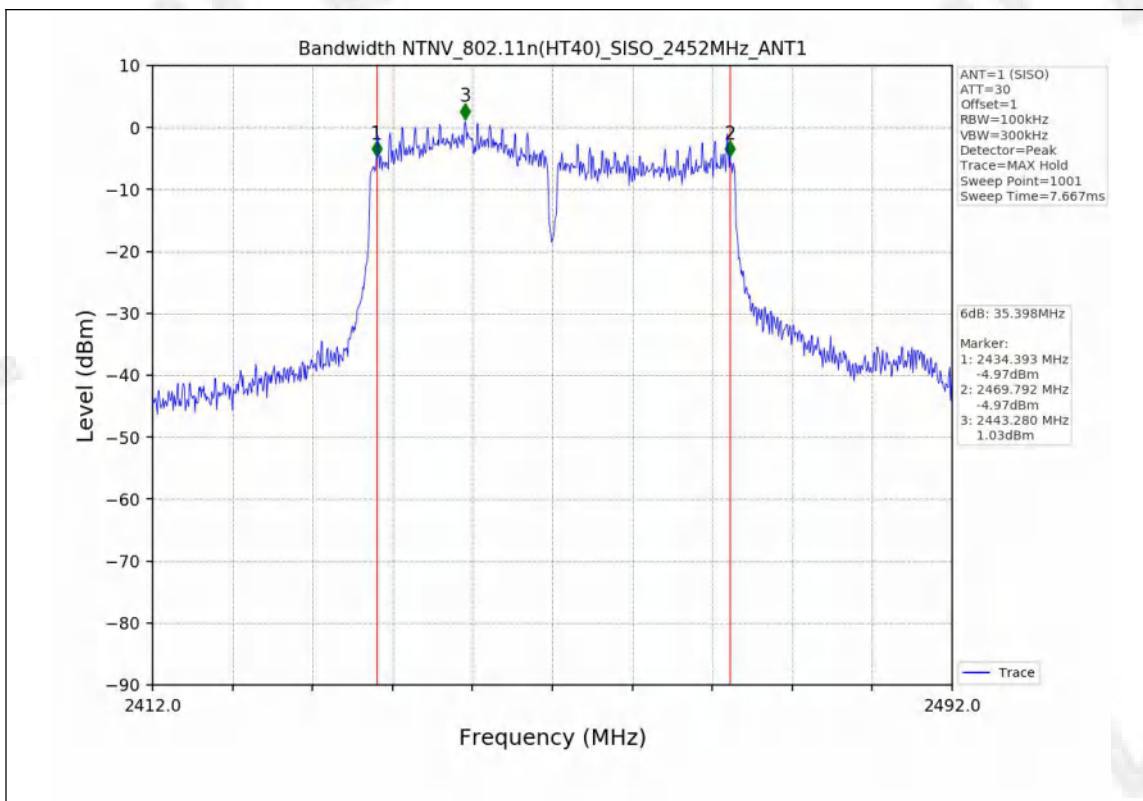




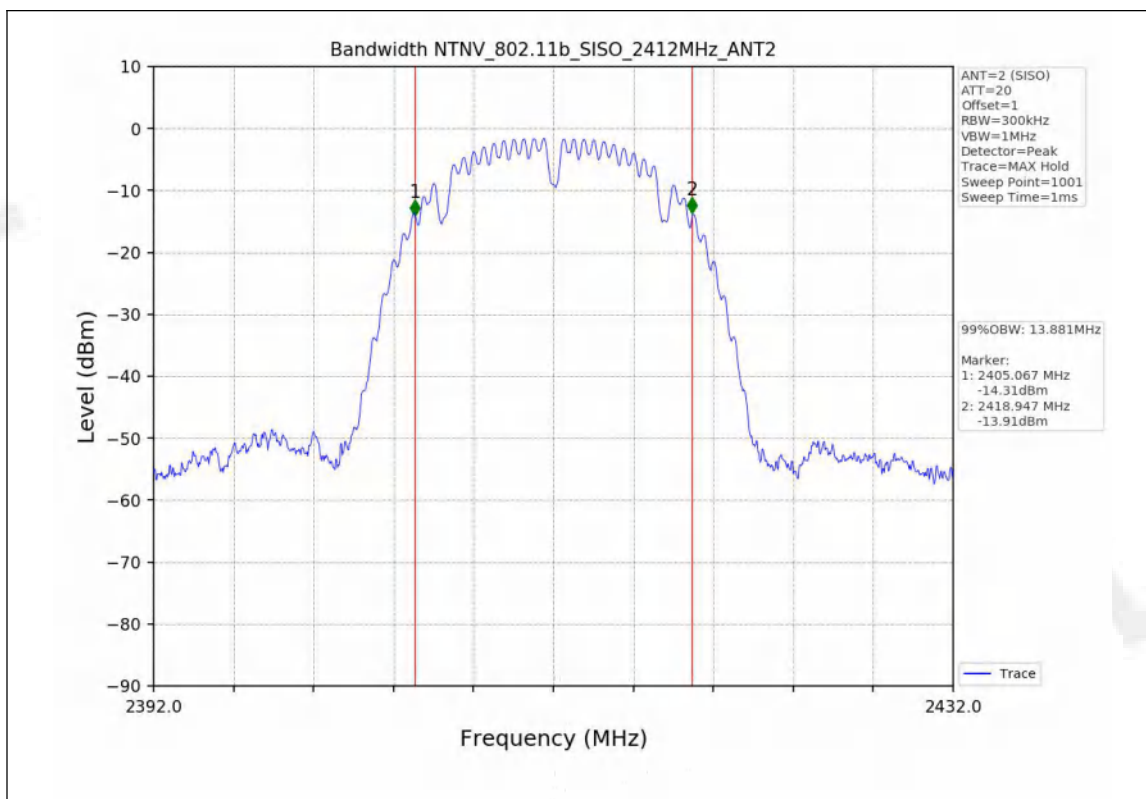
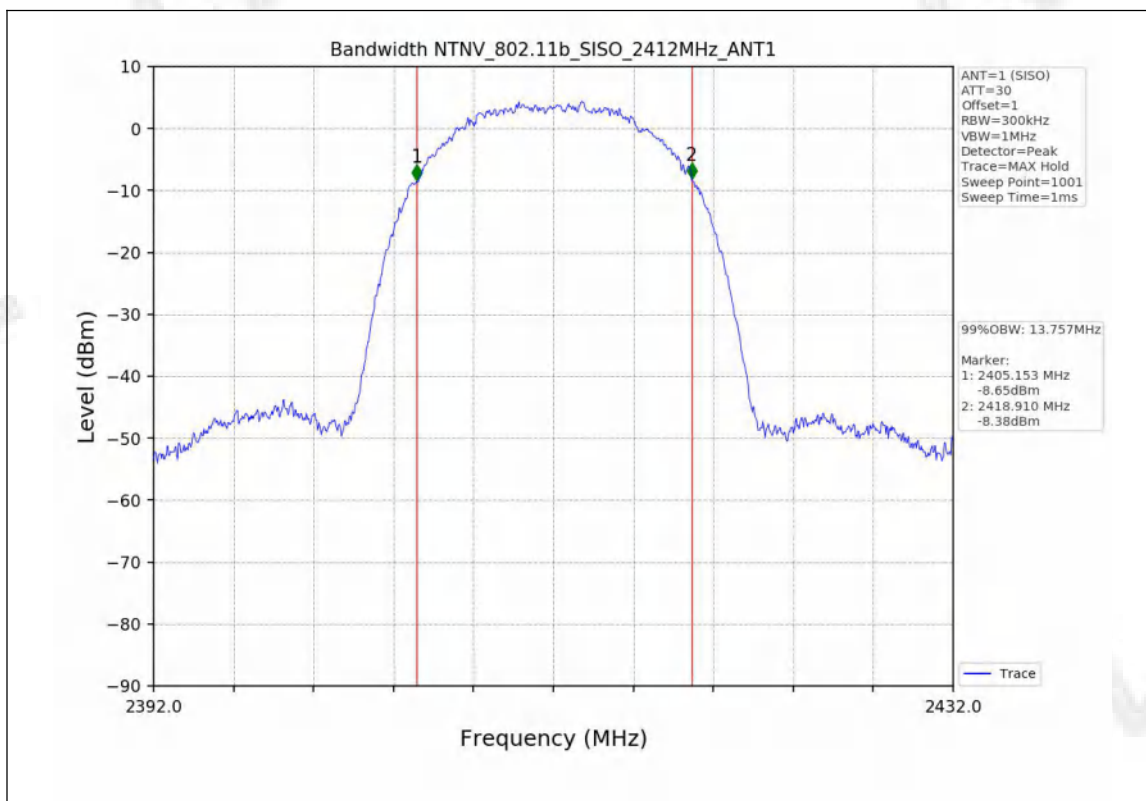


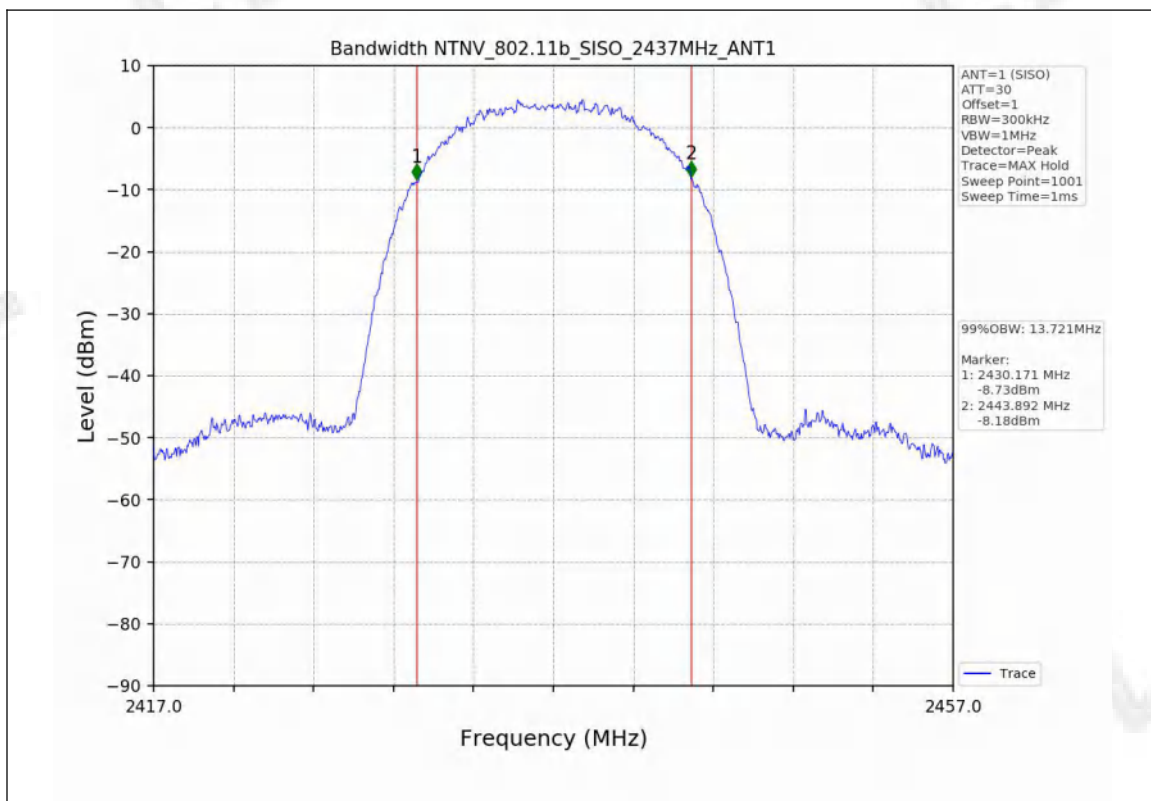


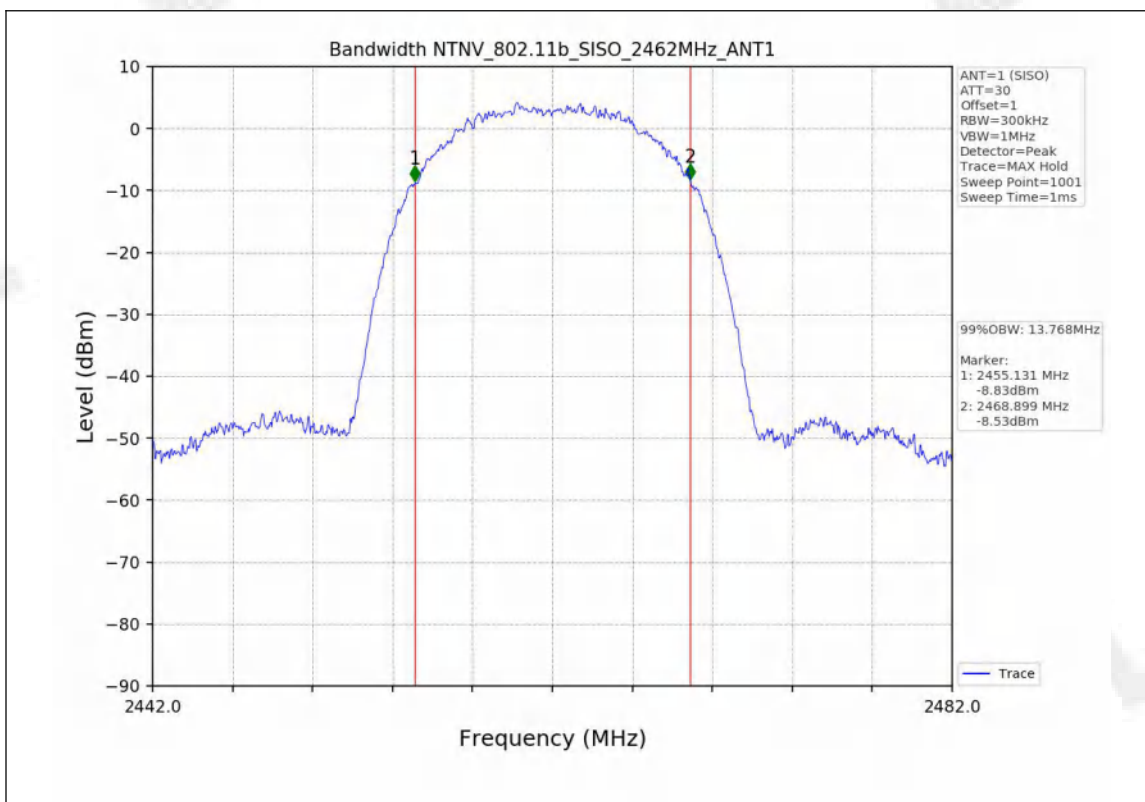
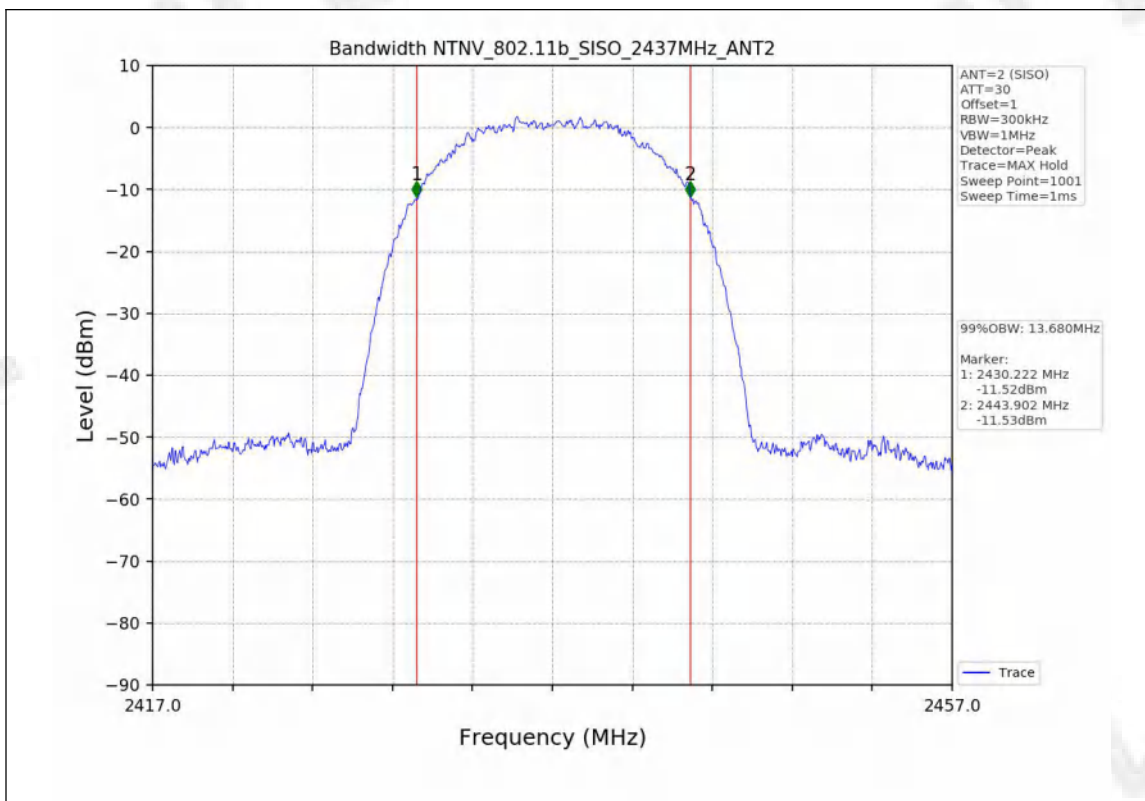


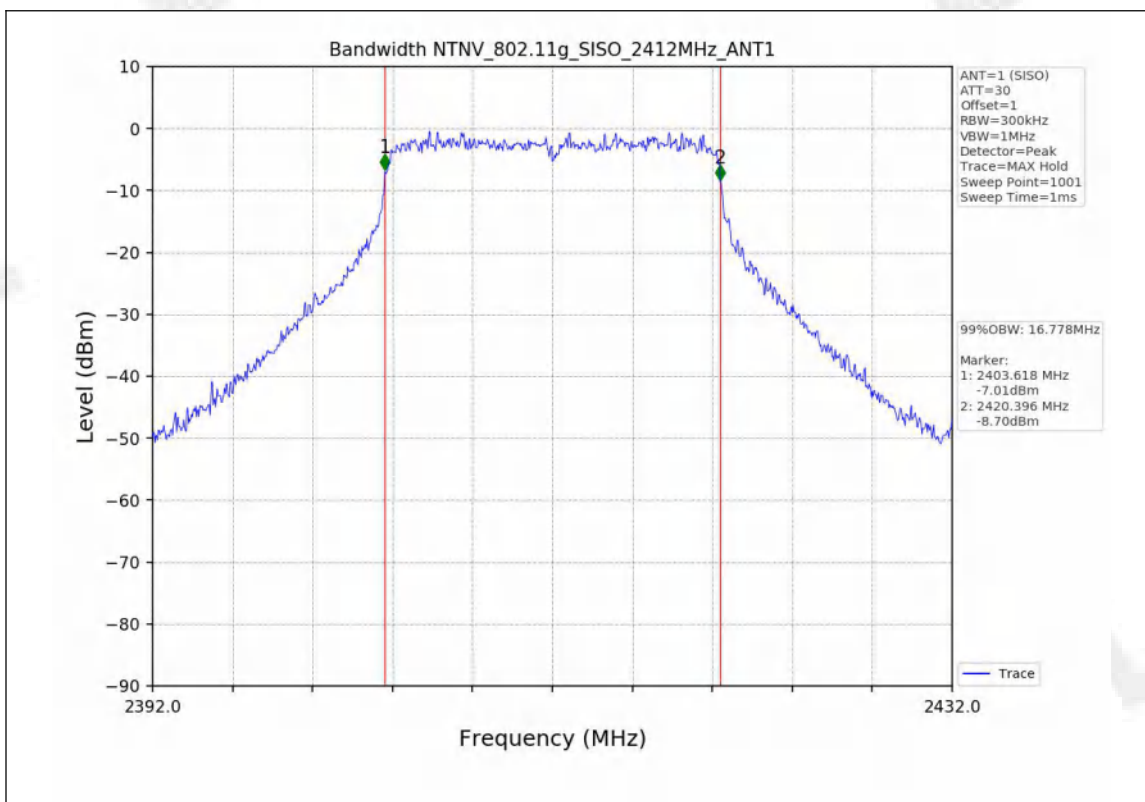
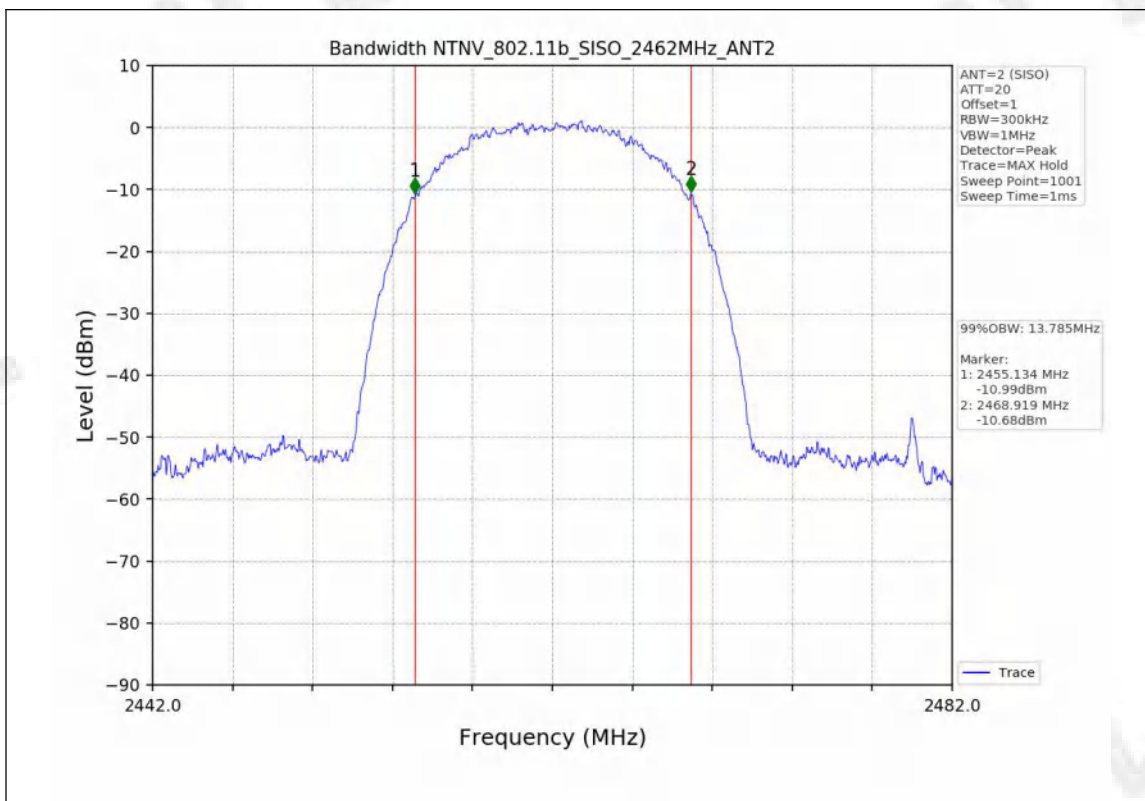


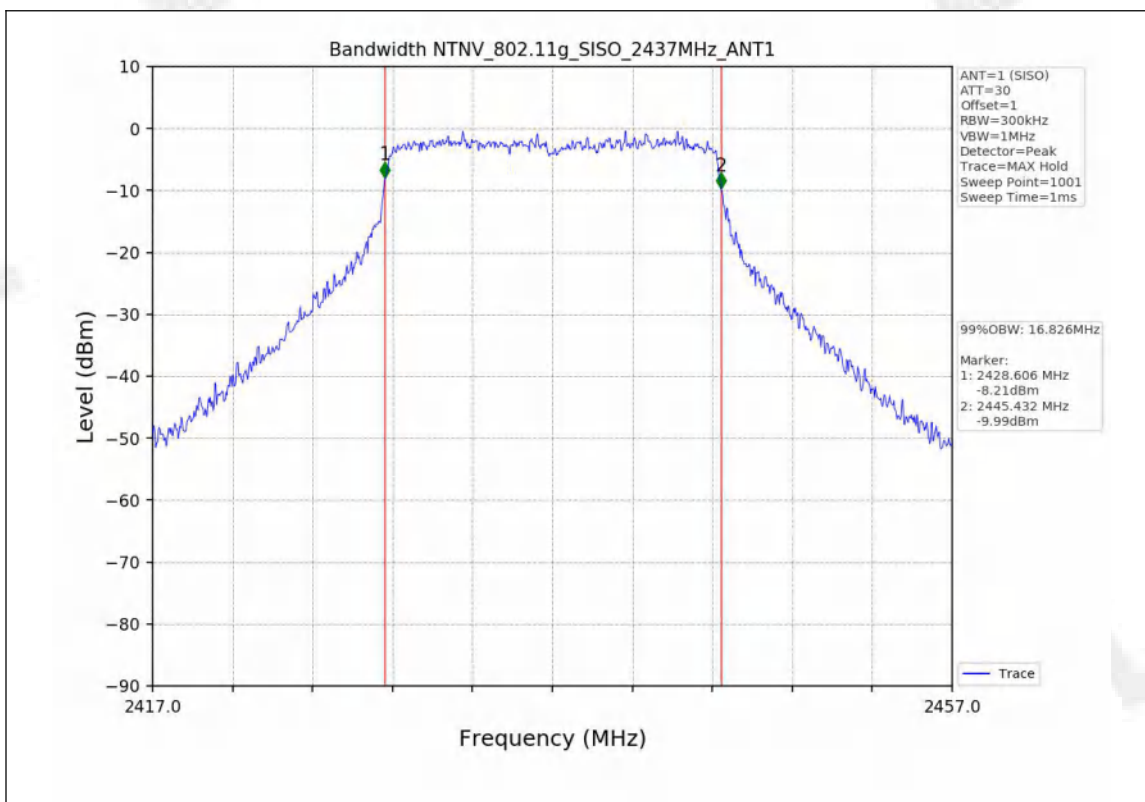
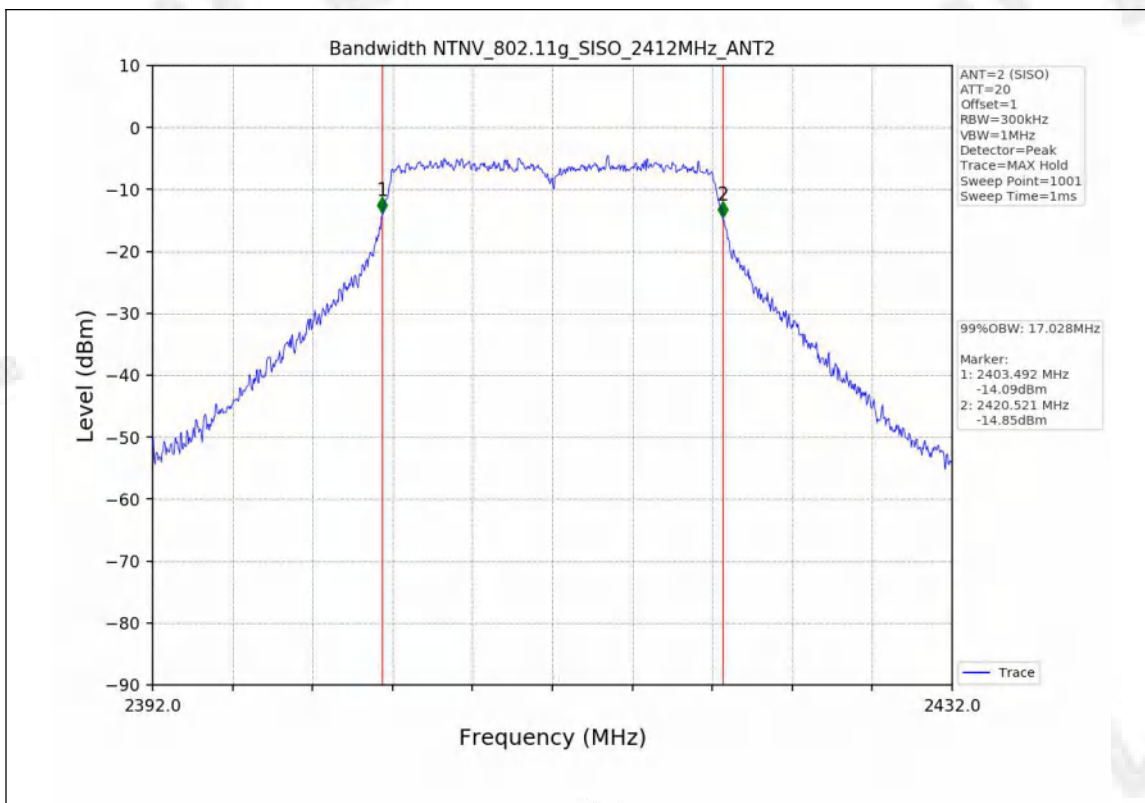
1.3 Test Graph - 99% Occupied Bandwidth

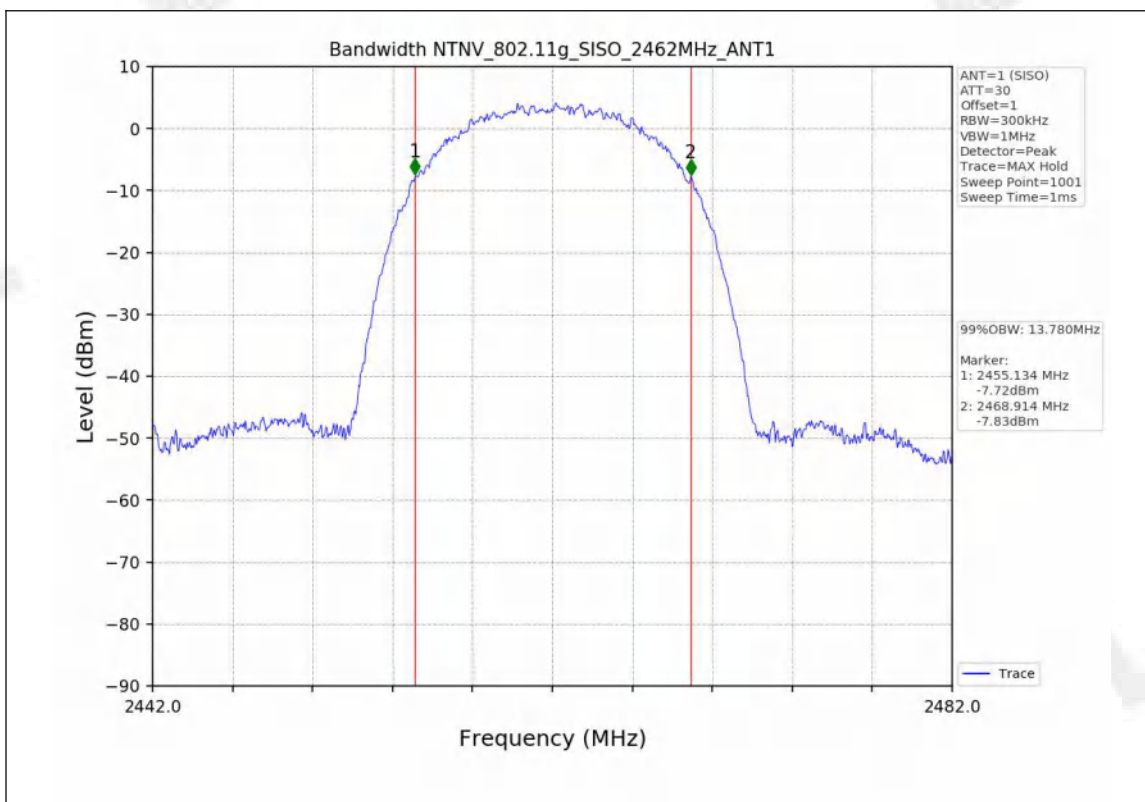
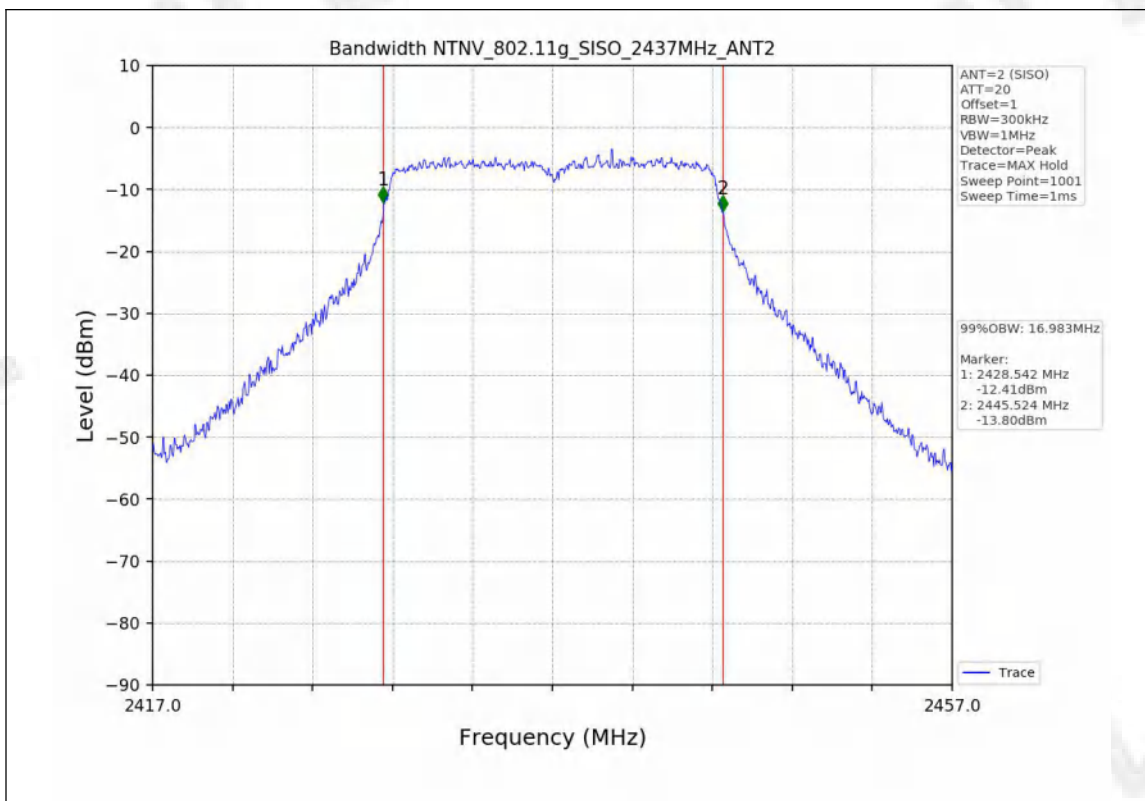


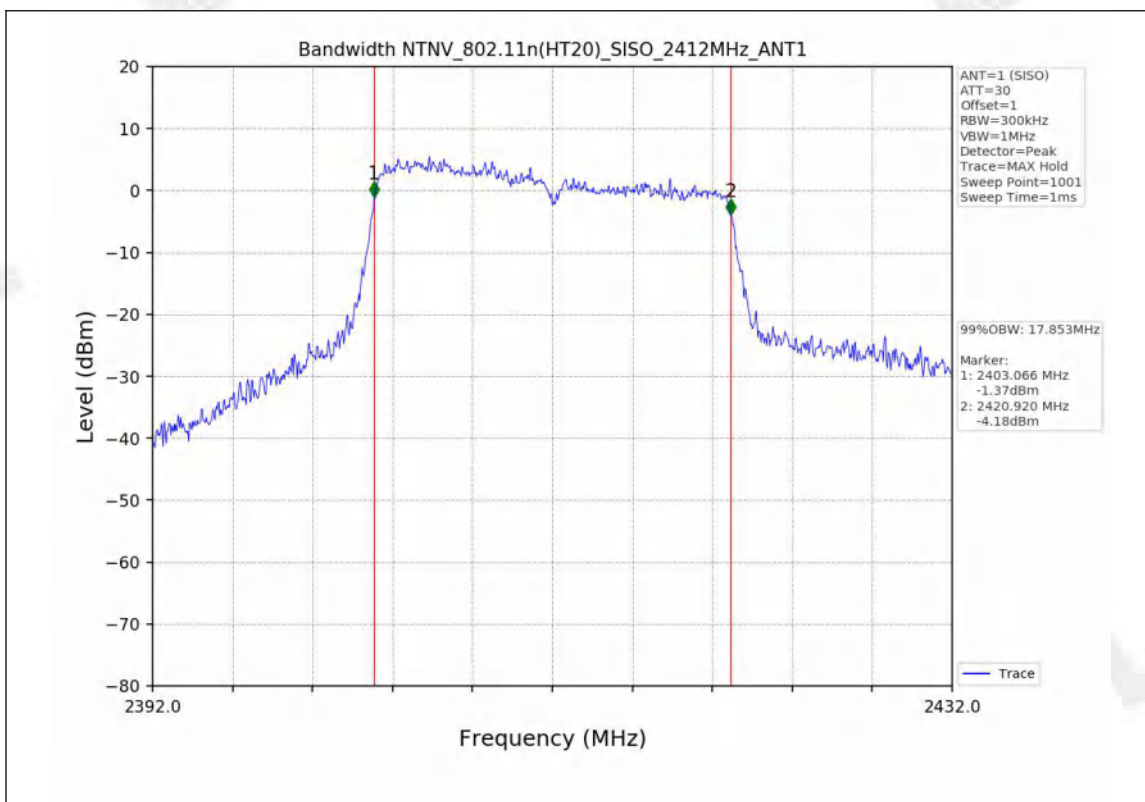
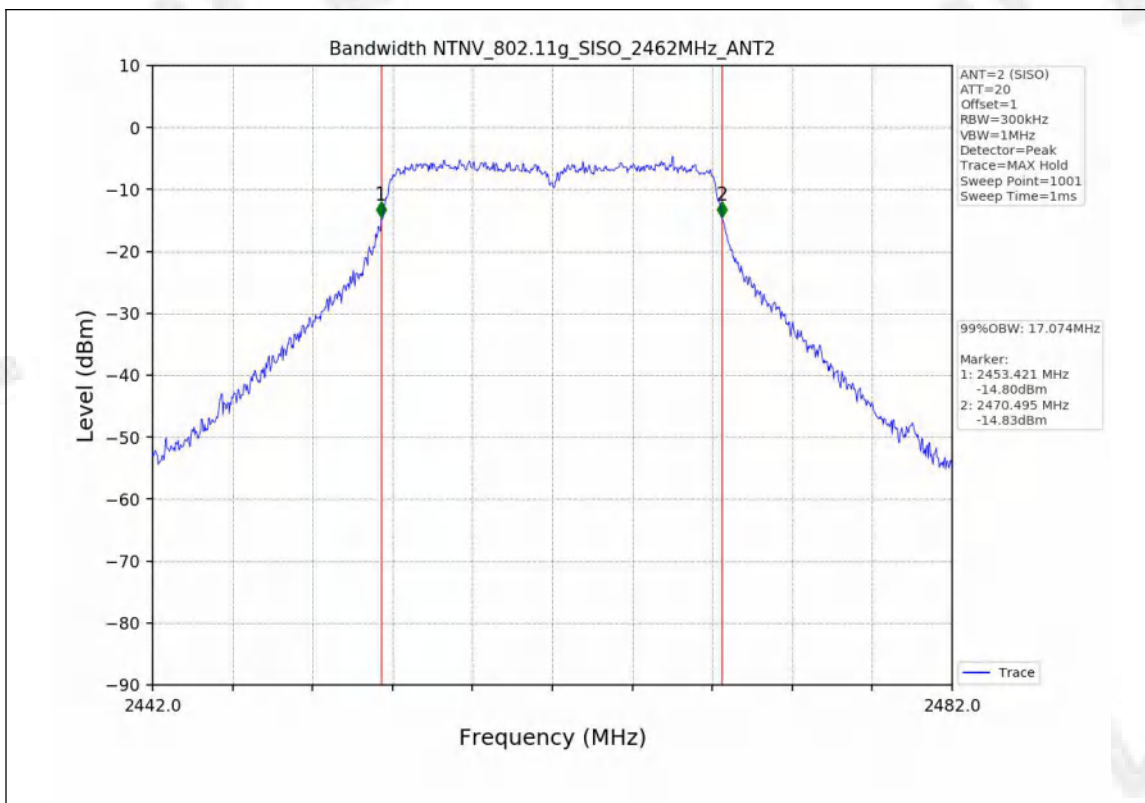


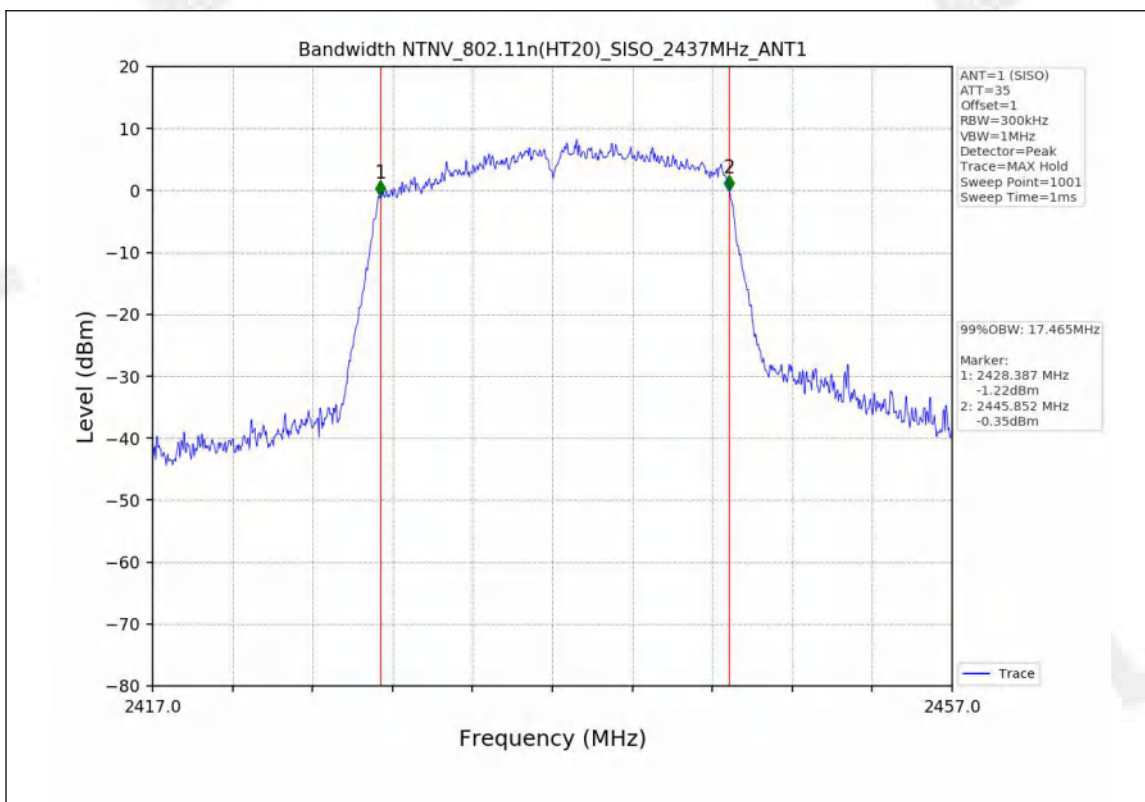
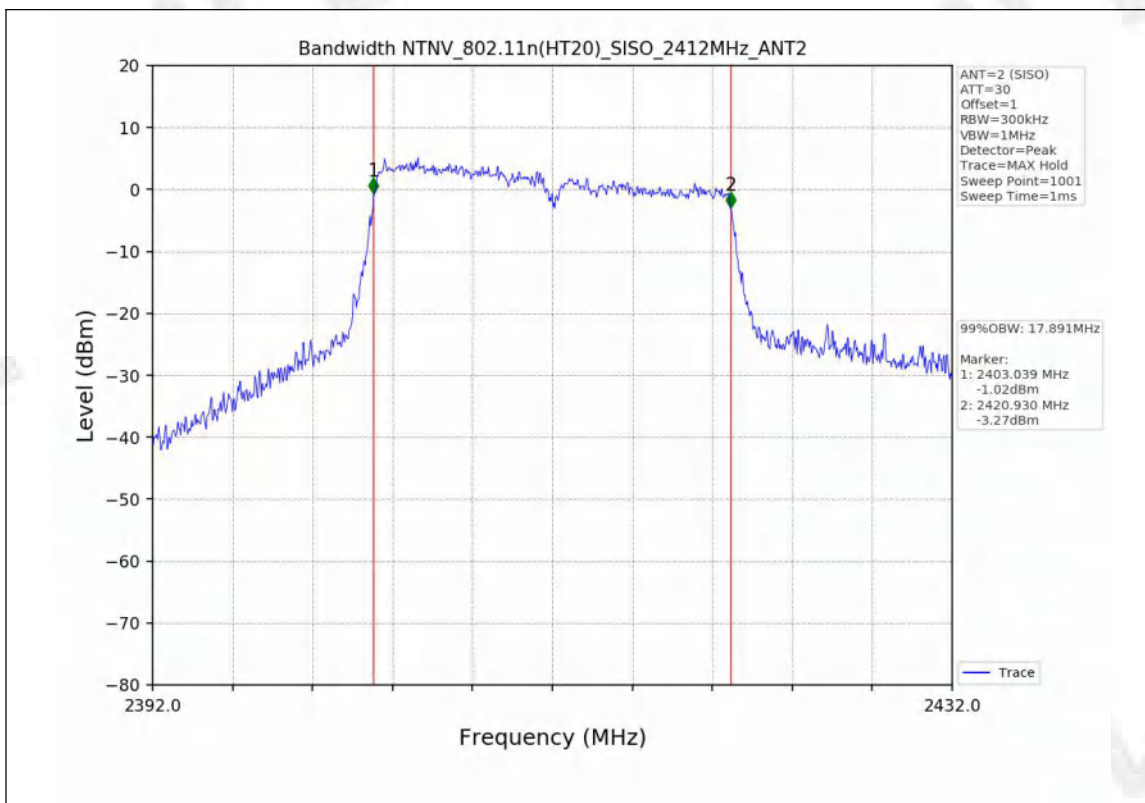


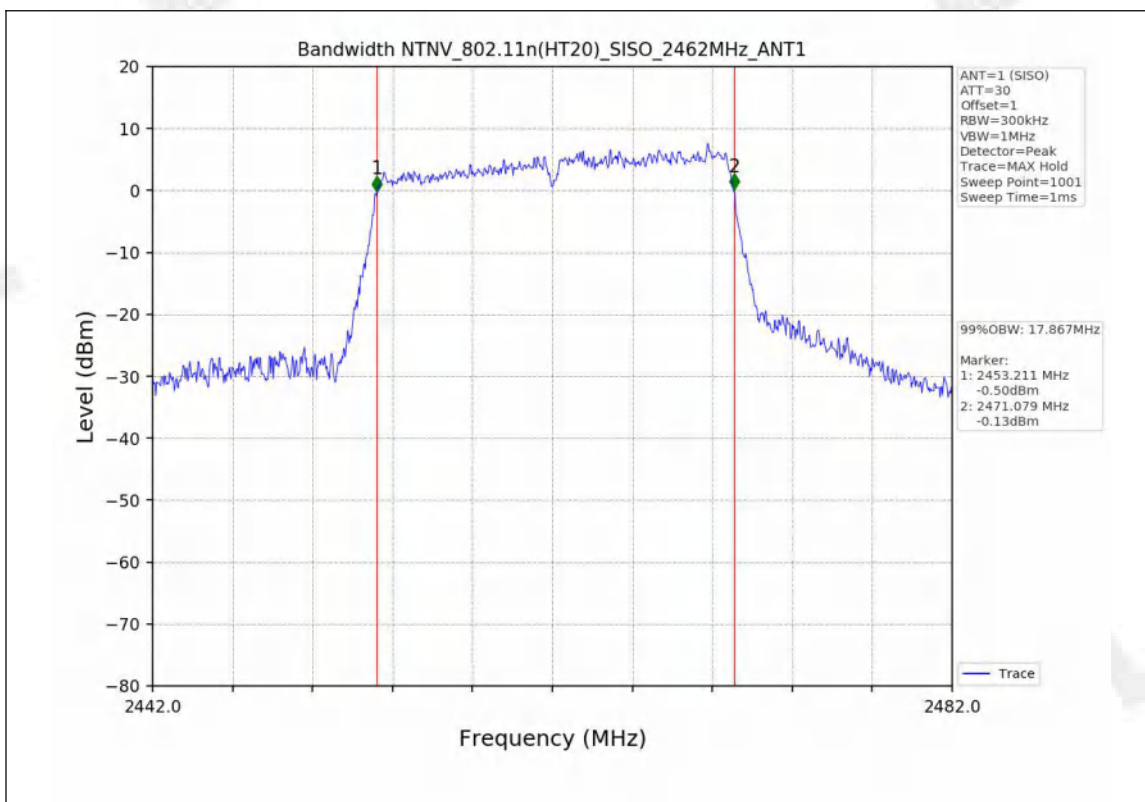
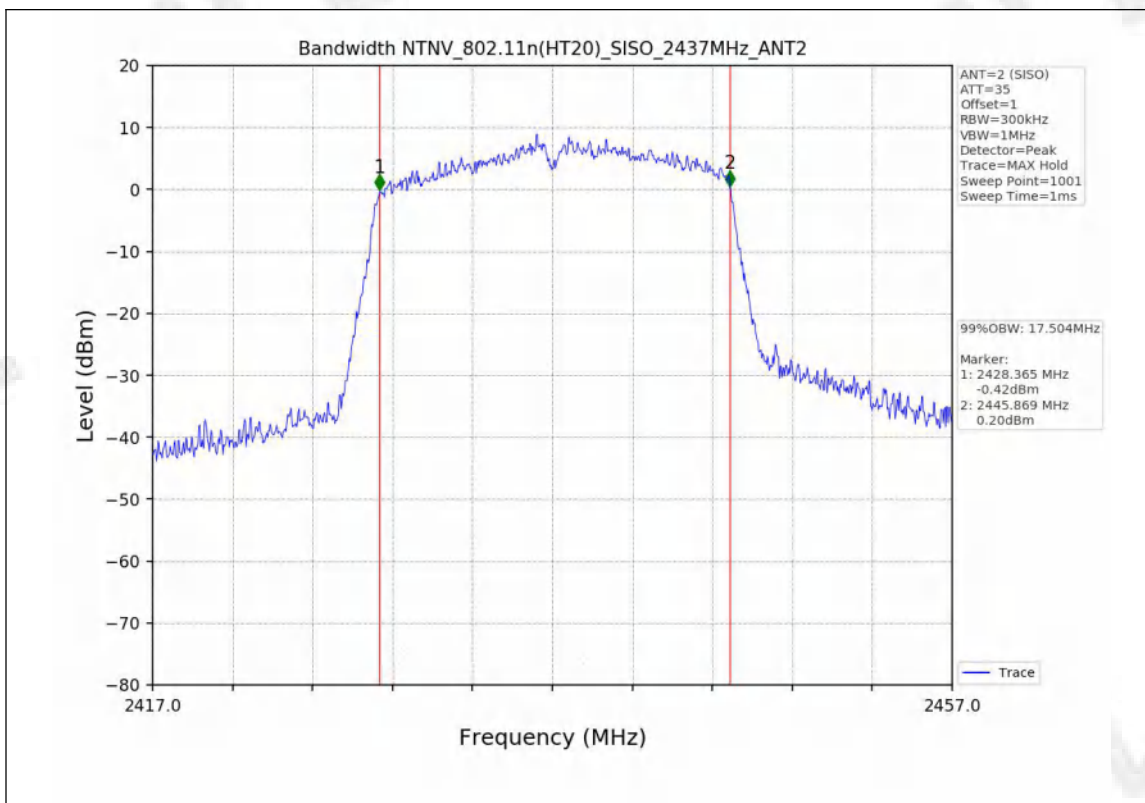


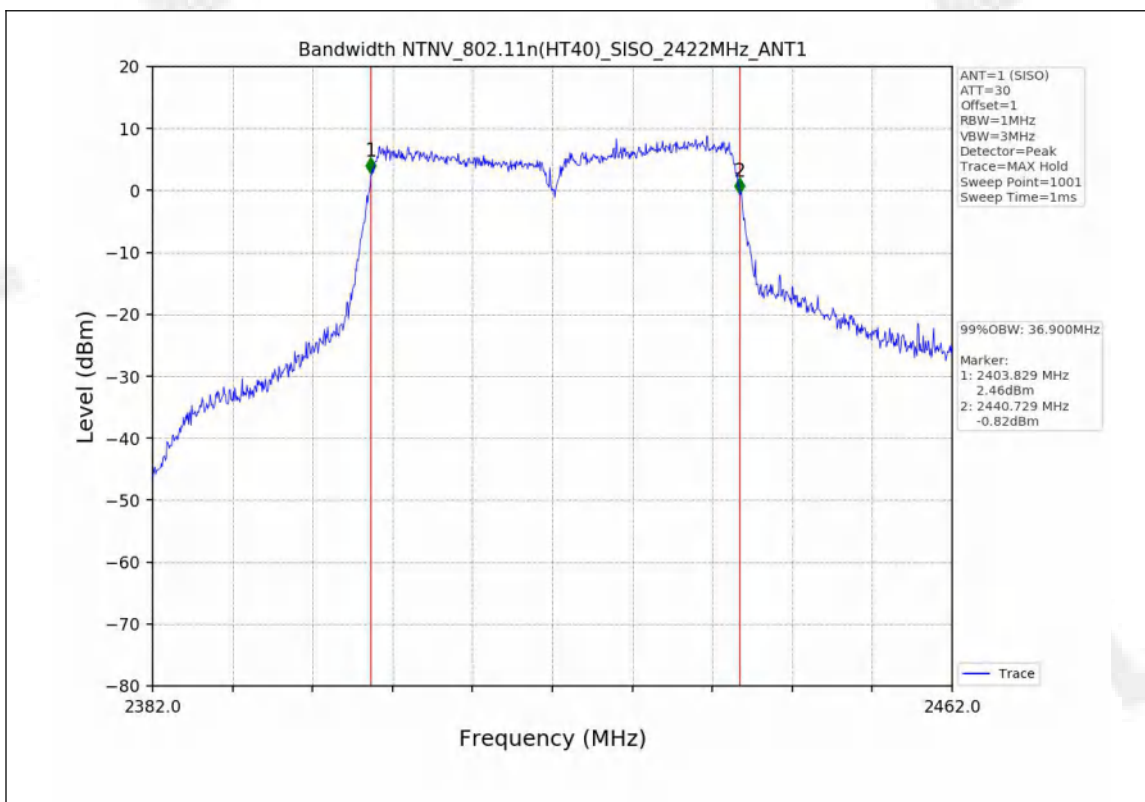
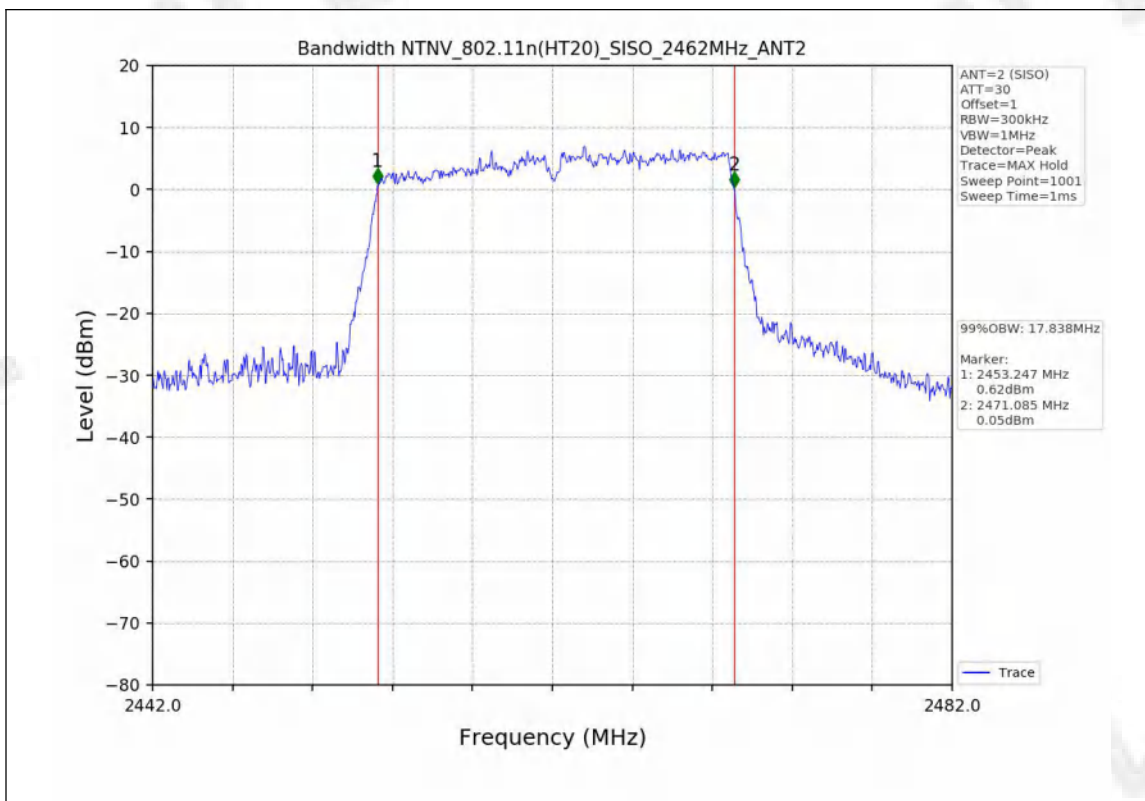


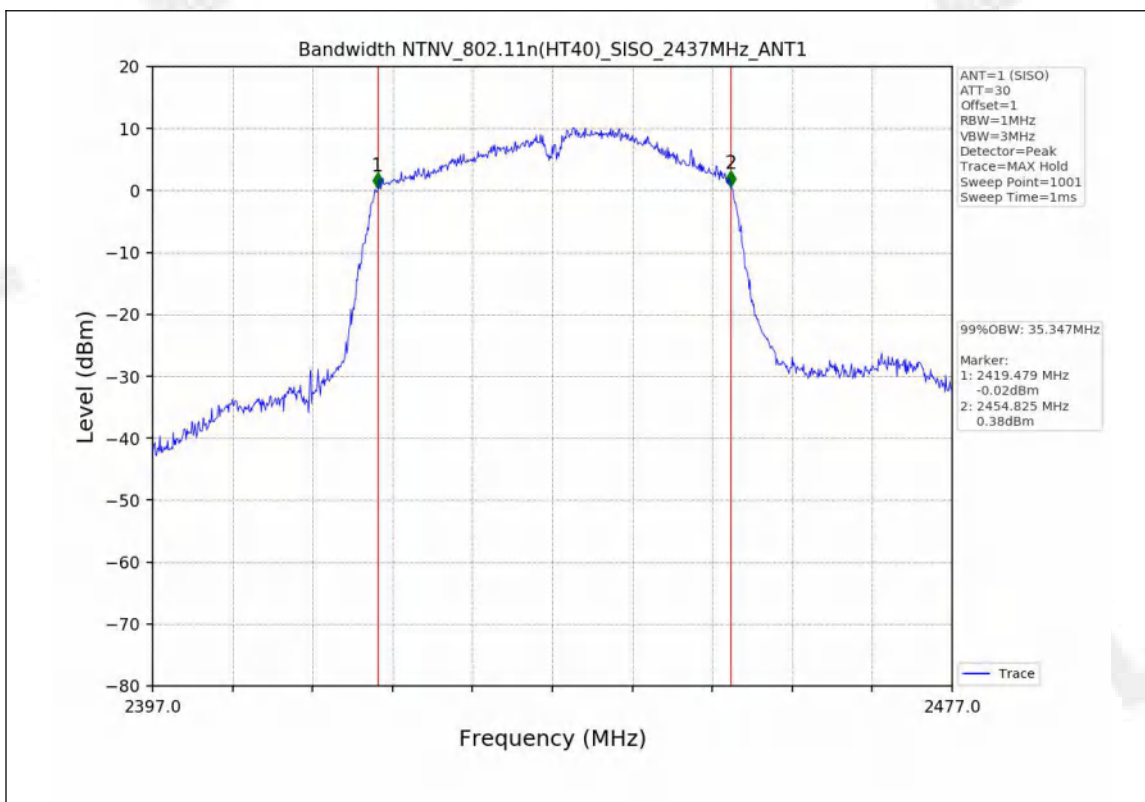
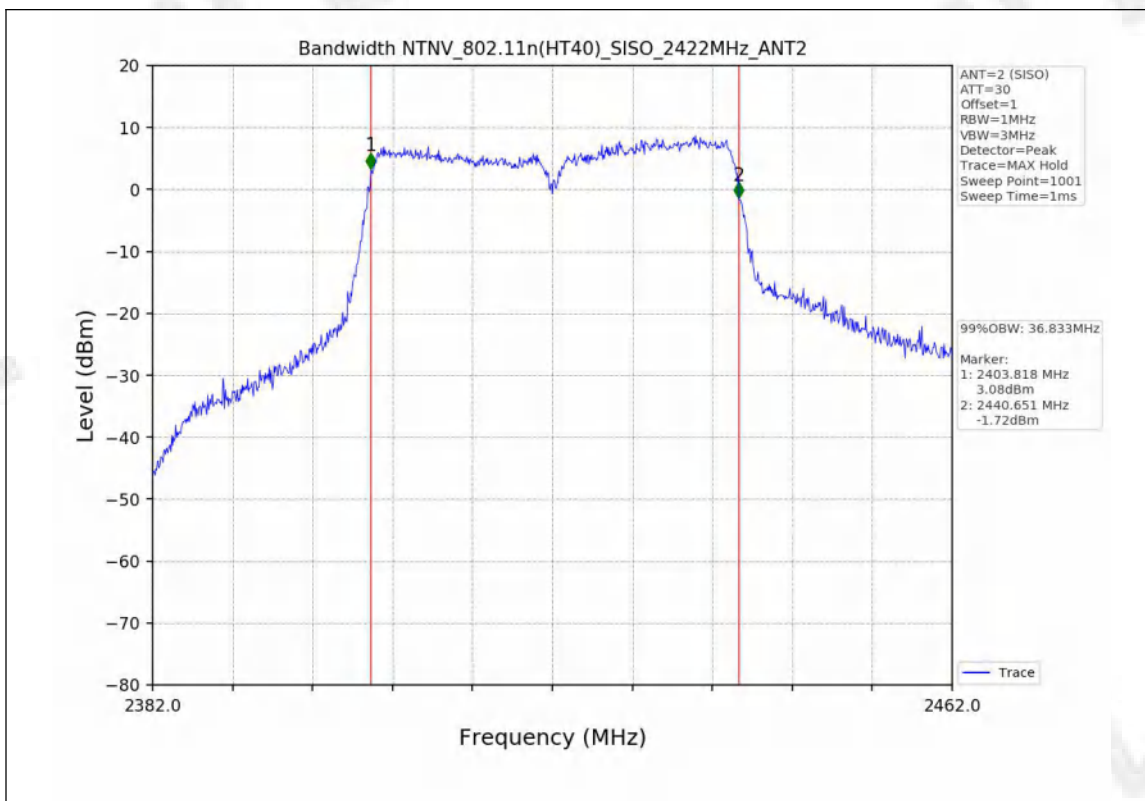


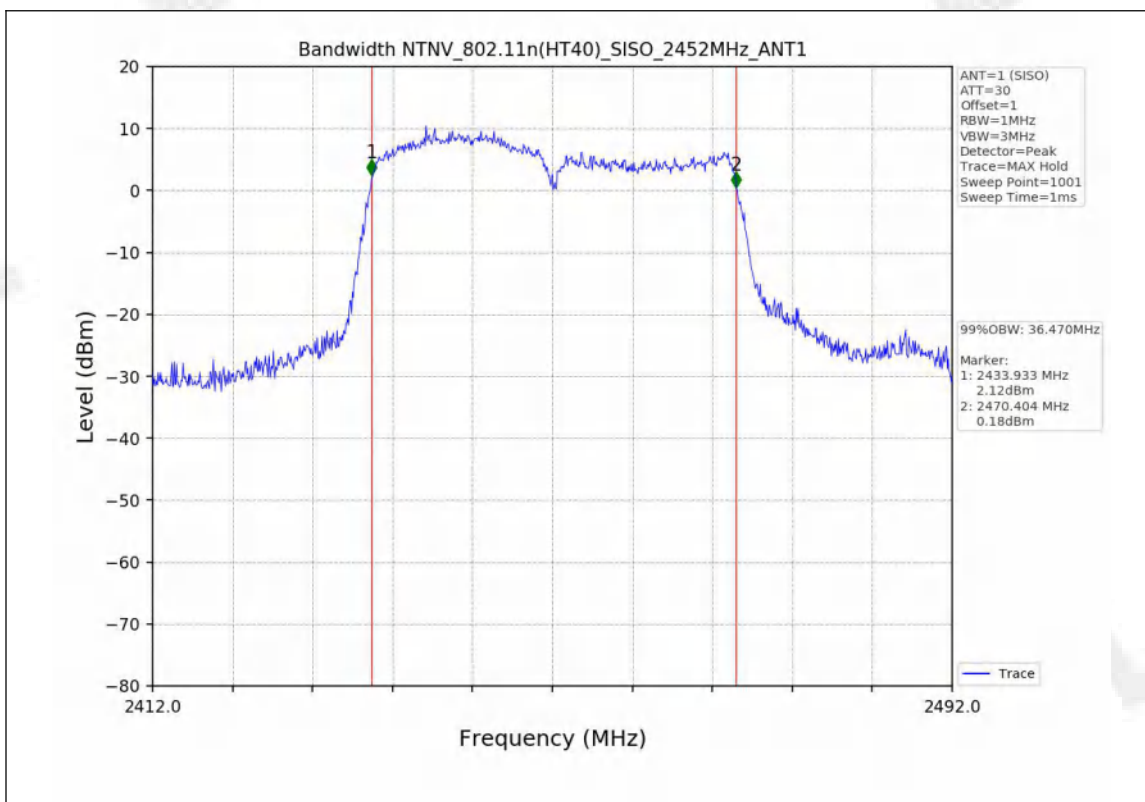
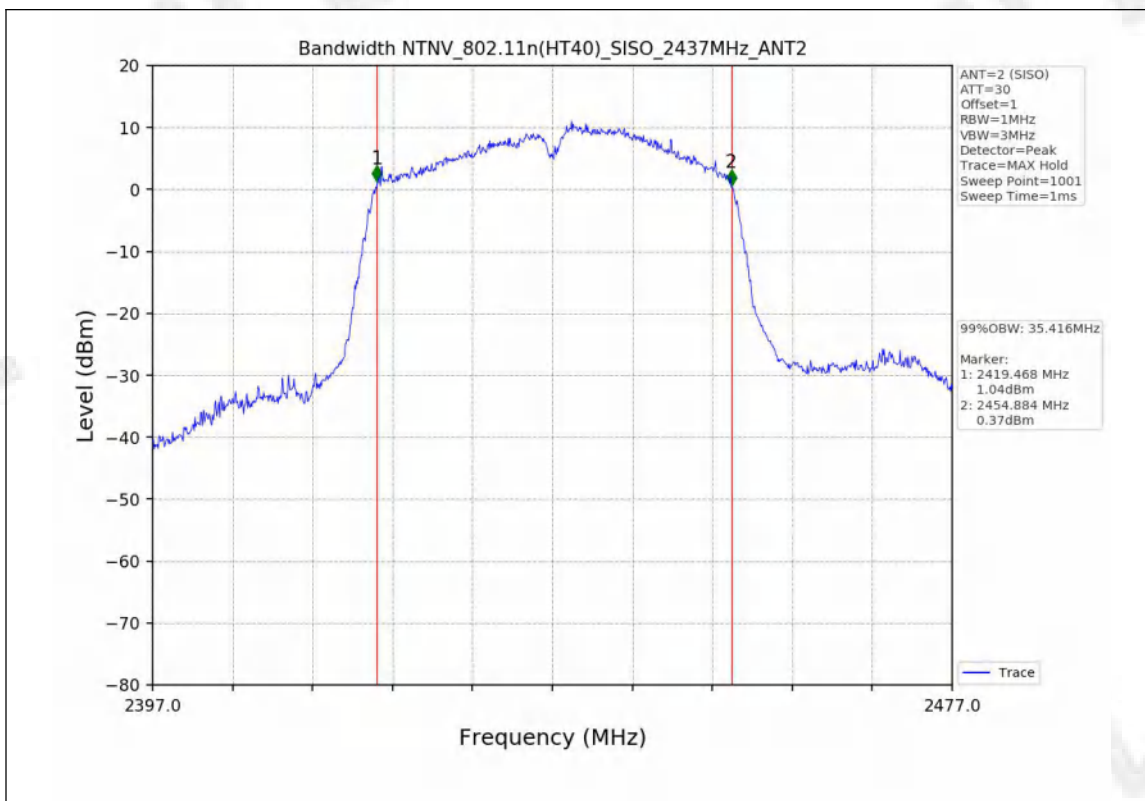


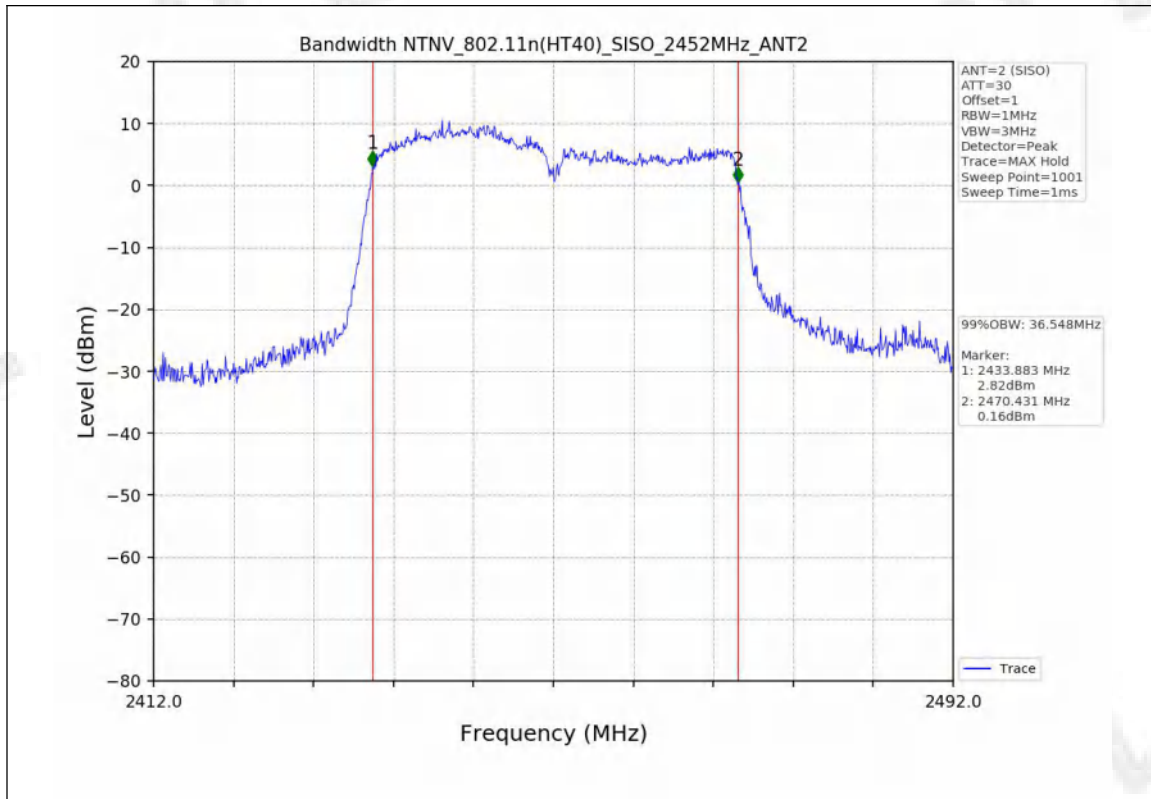












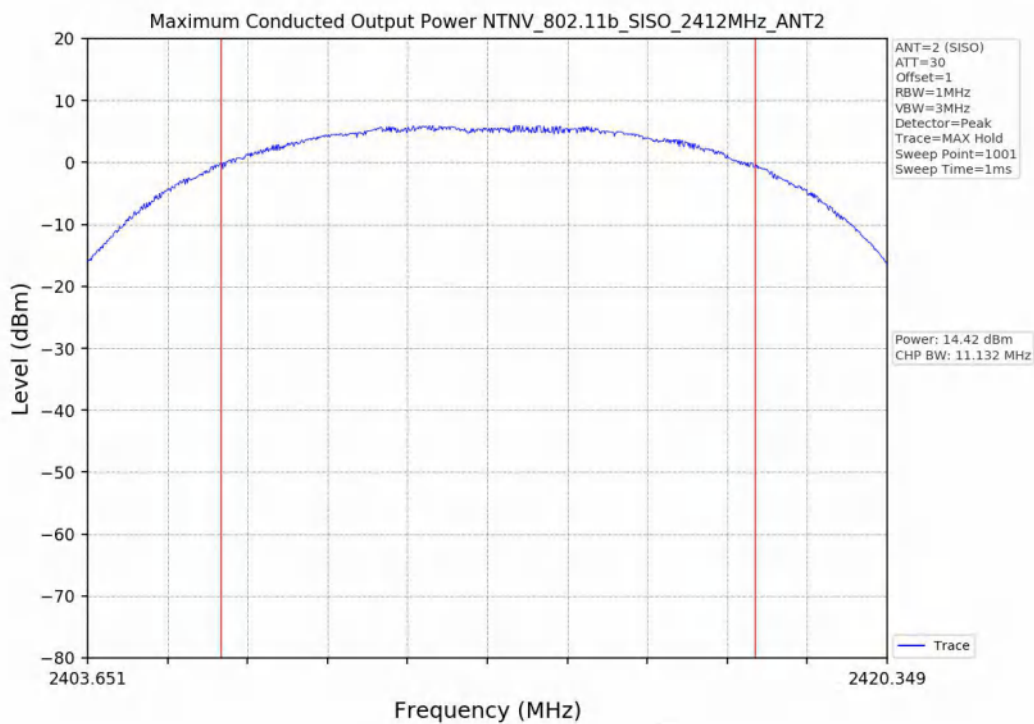
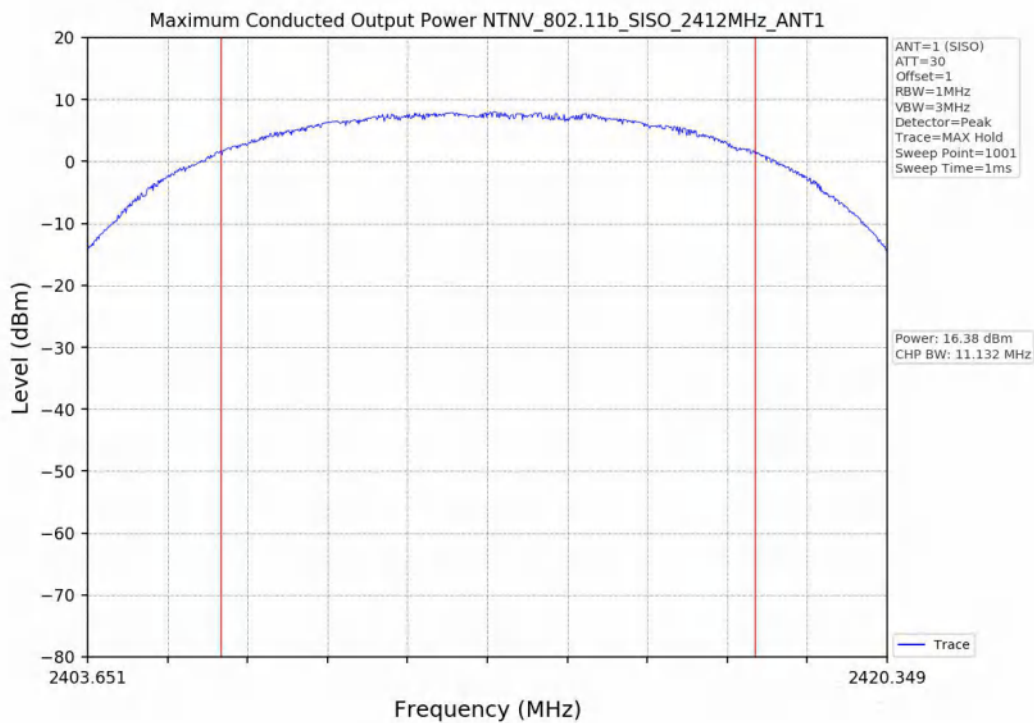
2. Maximum Conducted Output Power

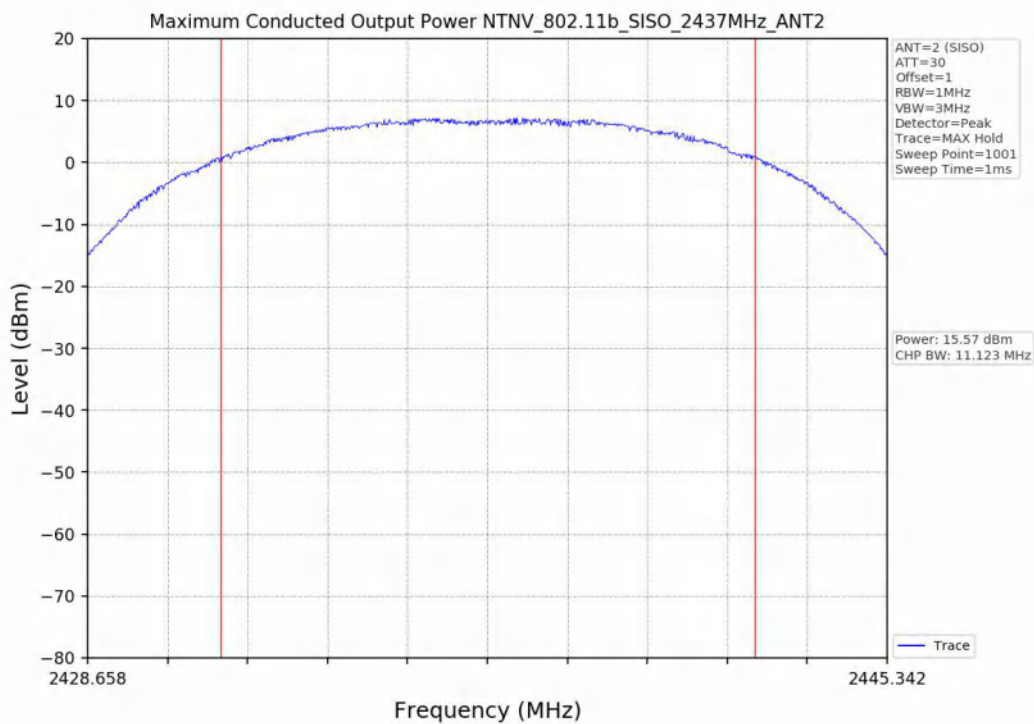
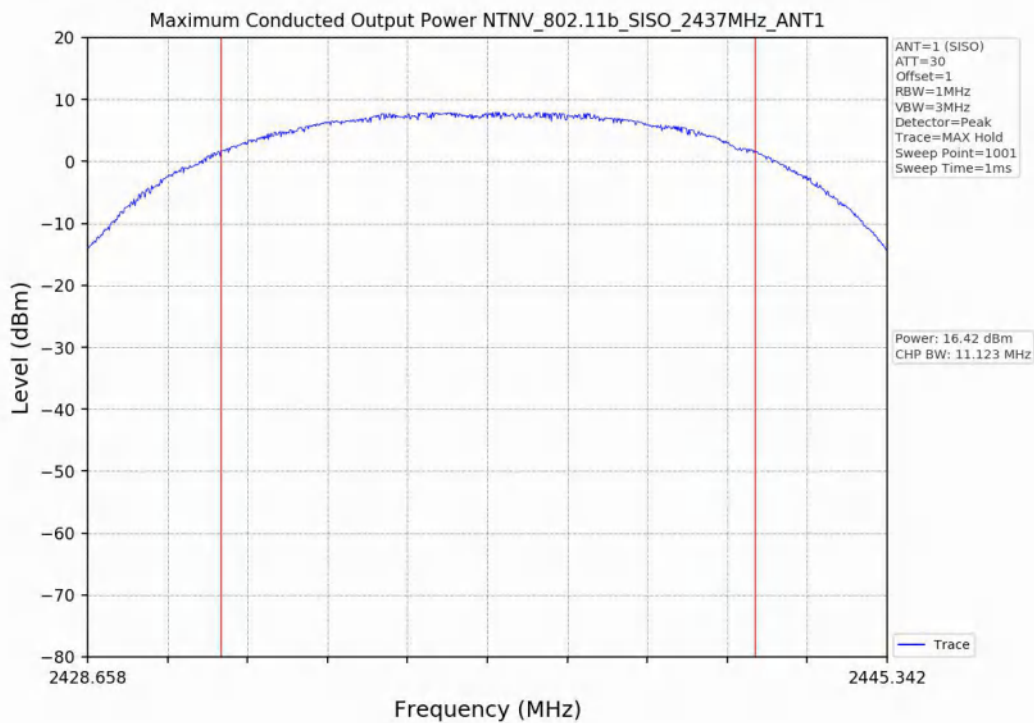
2.1 Test Result

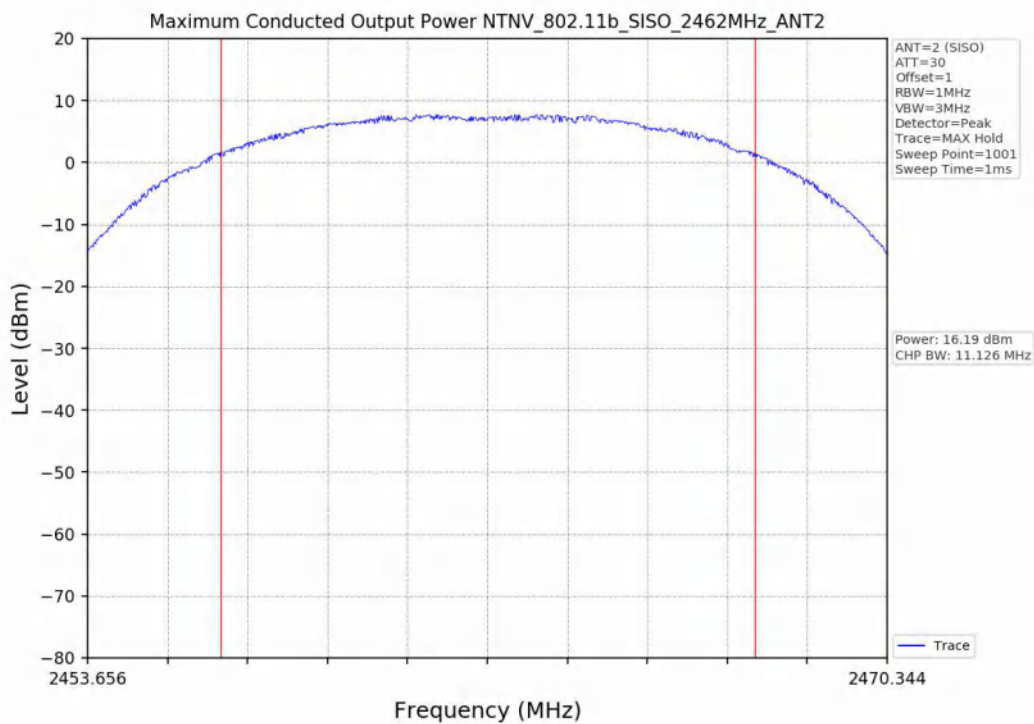
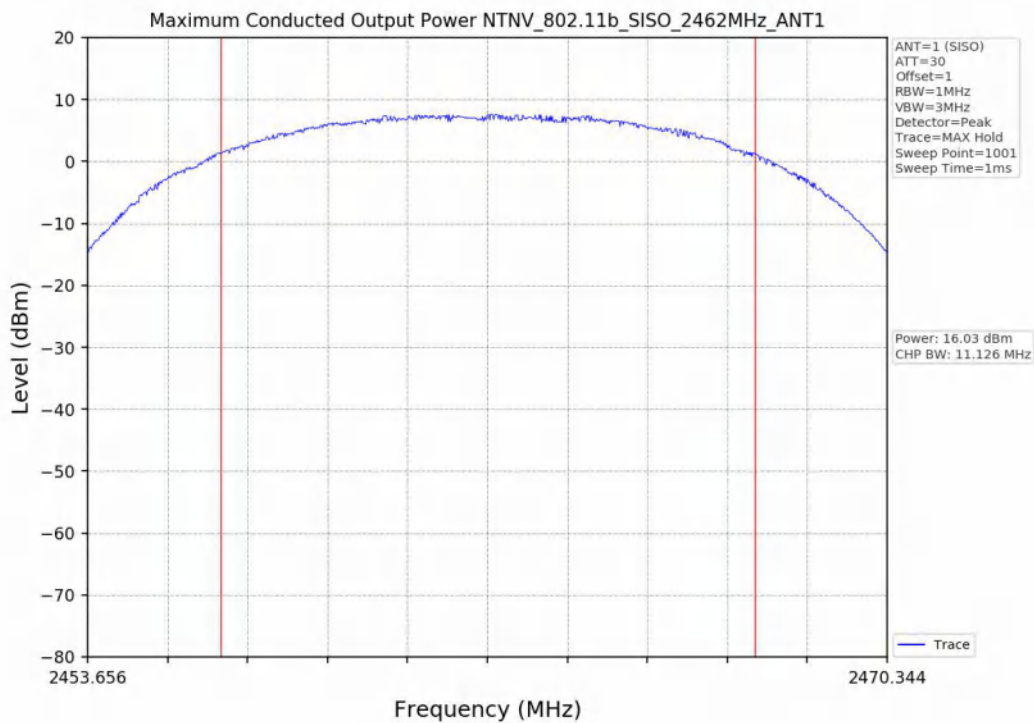
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	16.38	14.42	/	29.99	PASS
	2437	SISO	16.42	15.57	/	29.99	PASS
	2462	SISO	16.03	16.19	/	29.99	PASS
802.11g	2412	SISO	15.01	15.08	/	29.99	PASS
	2437	SISO	15.17	15.16	/	29.99	PASS
	2462	SISO	15.89	16.03	/	29.99	PASS
802.11n(HT20)	2412	MIMO	16.38	14.12	18.41	29.99	PASS
	2437	MIMO	16.10	14.01	18.19	29.99	PASS
	2462	MIMO	15.74	13.64	17.83	29.99	PASS
802.11n(HT40)	2422	MIMO	16.06	13.81	18.09	29.99	PASS
	2437	MIMO	15.91	13.84	18.01	29.99	PASS
	2452	MIMO	15.84	13.73	17.92	29.99	PASS

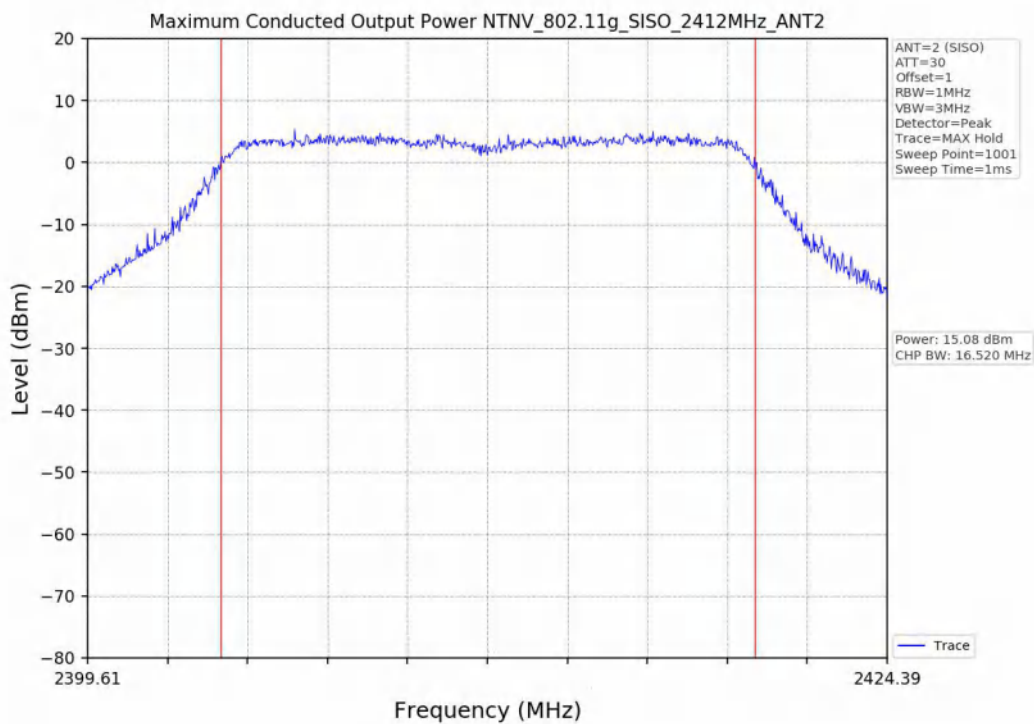
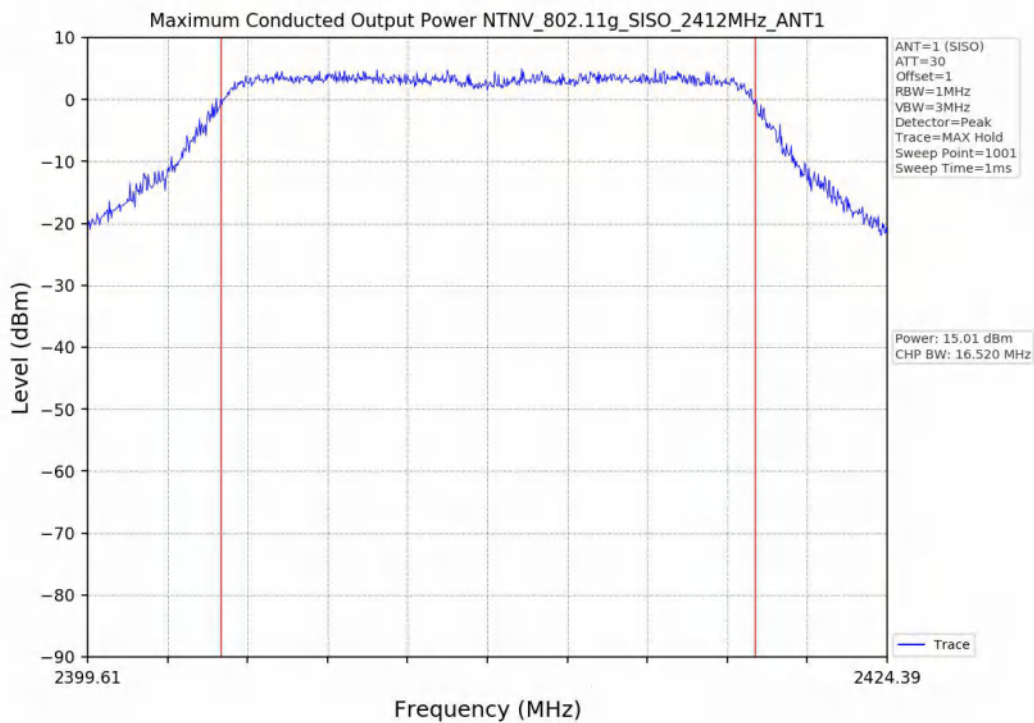
Directional gain=3dBi+10 log (2) = 6.01dBi > 6dBi, So the Conducted Power limit shall be reduced to 30-(6.01-6) = 29.99

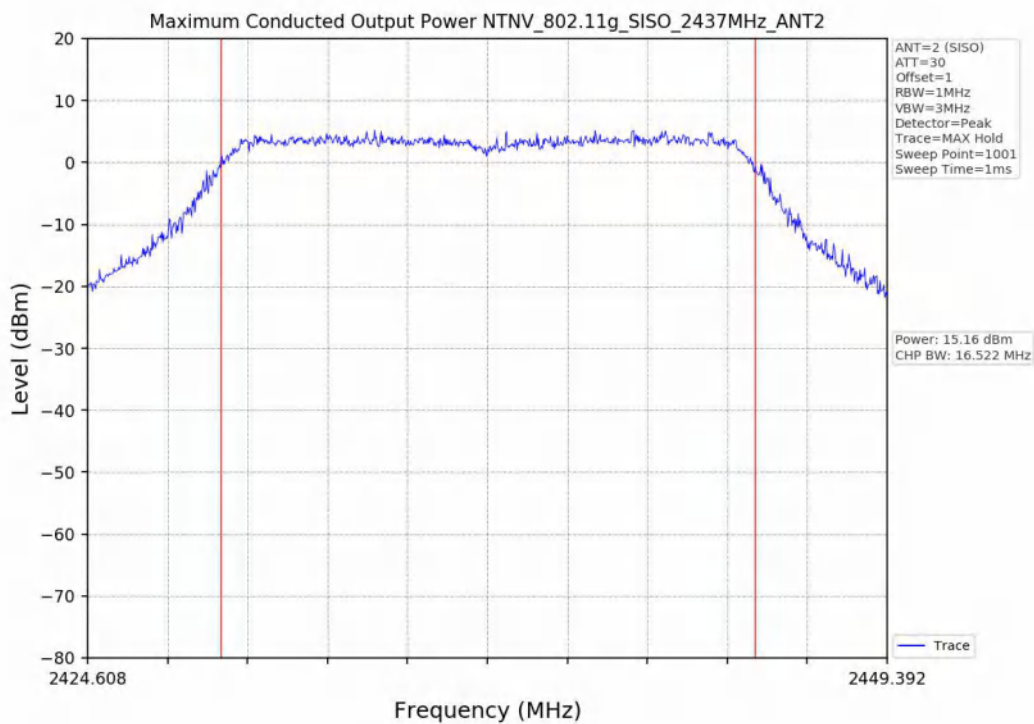
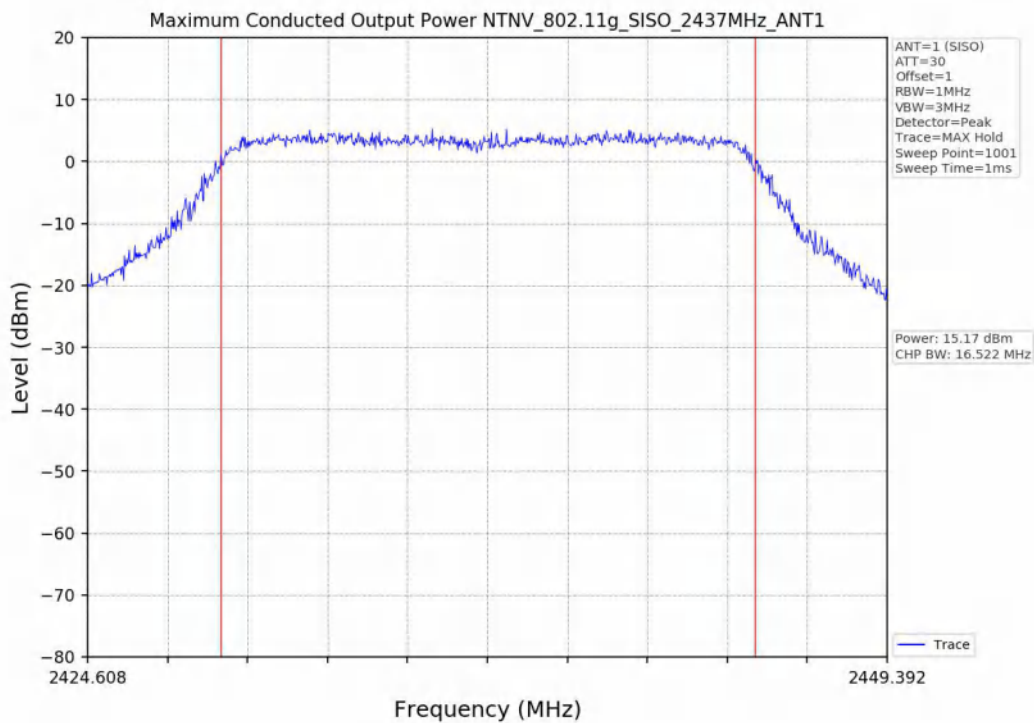
2.2 Test Graph

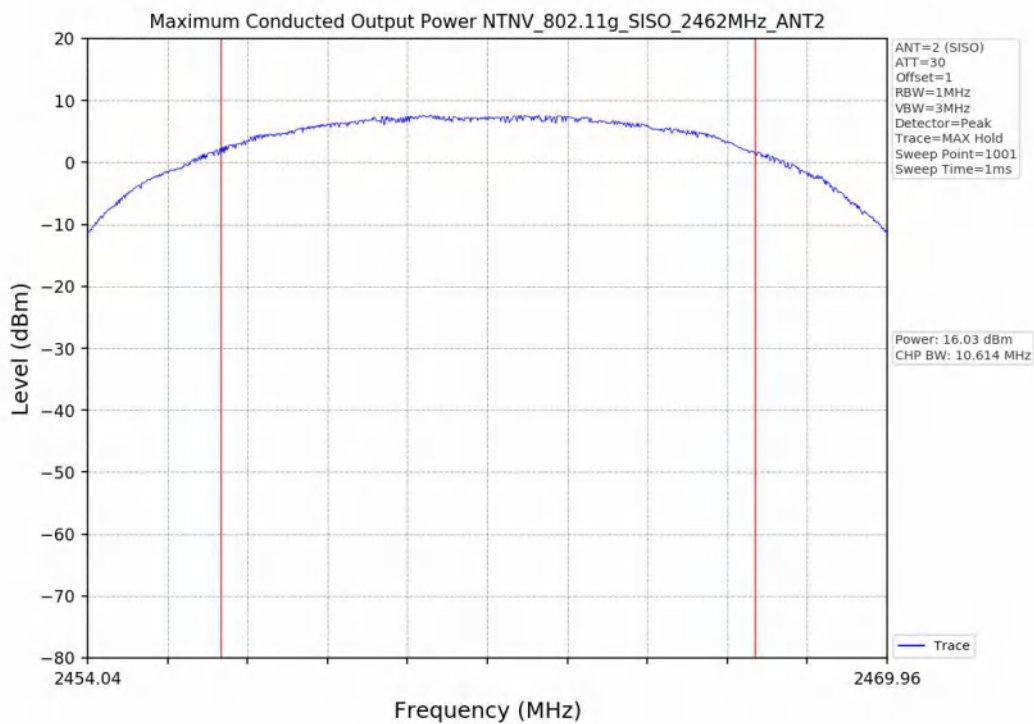
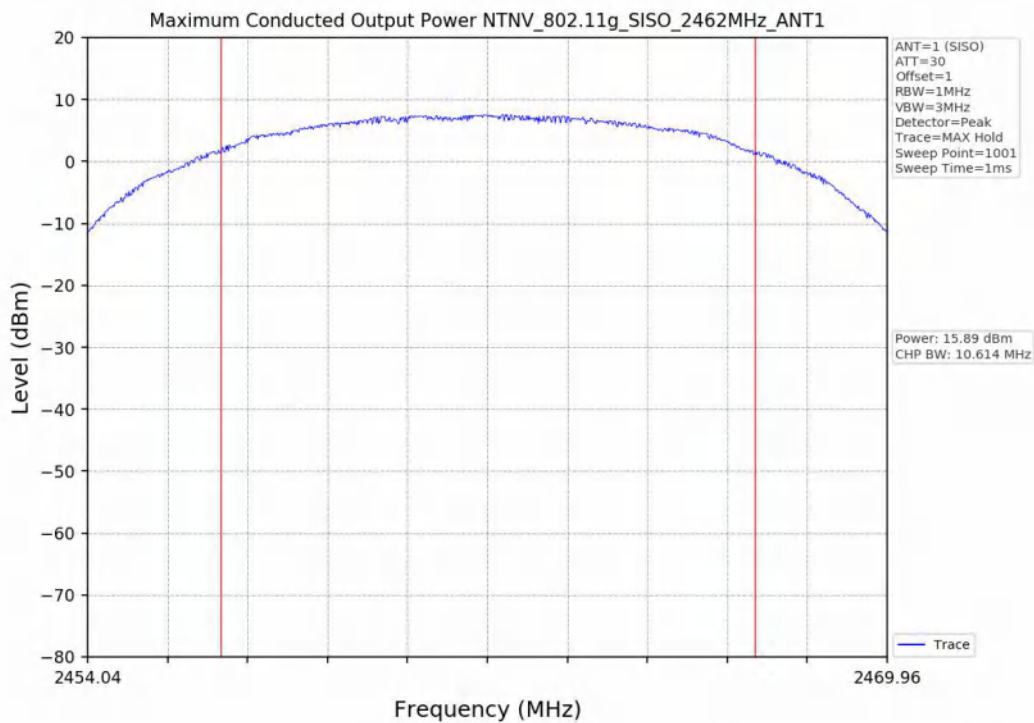


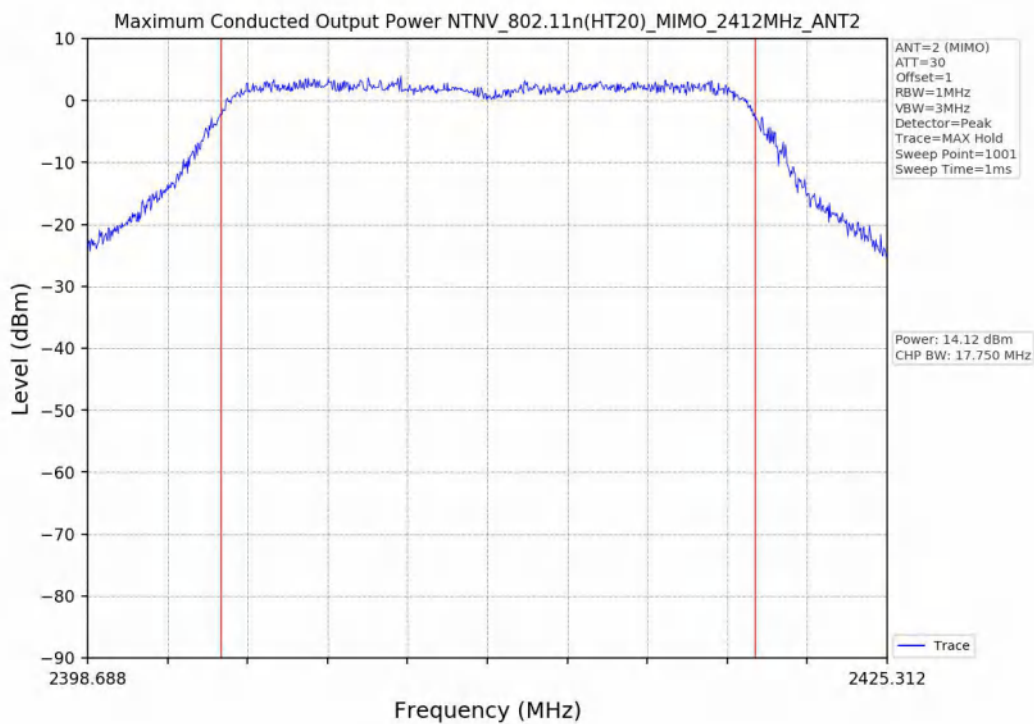
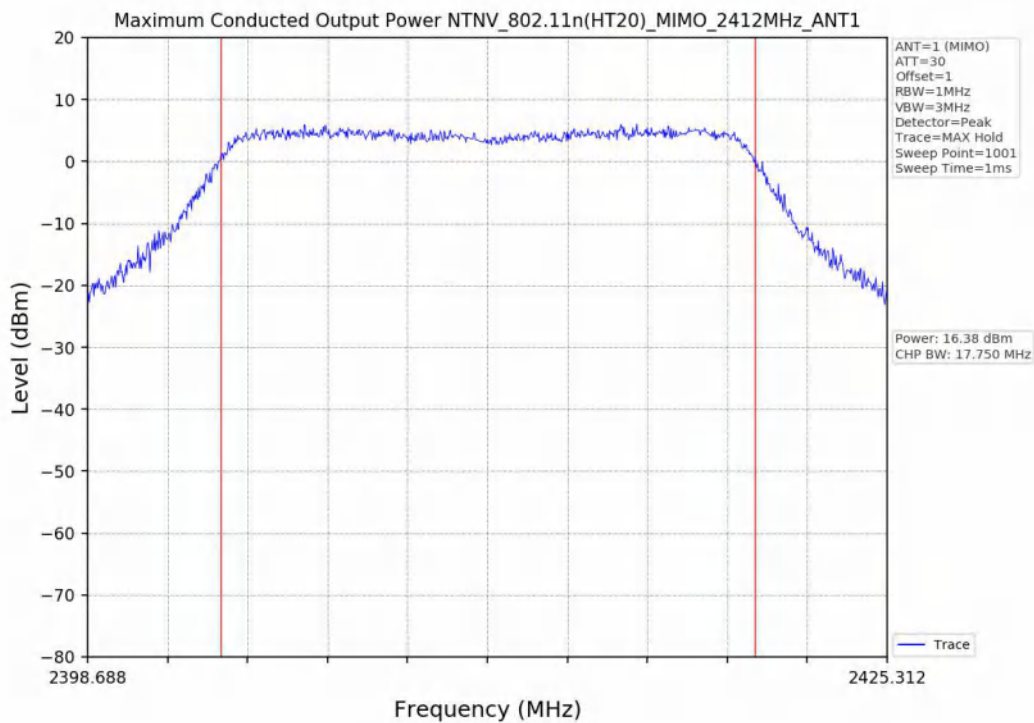


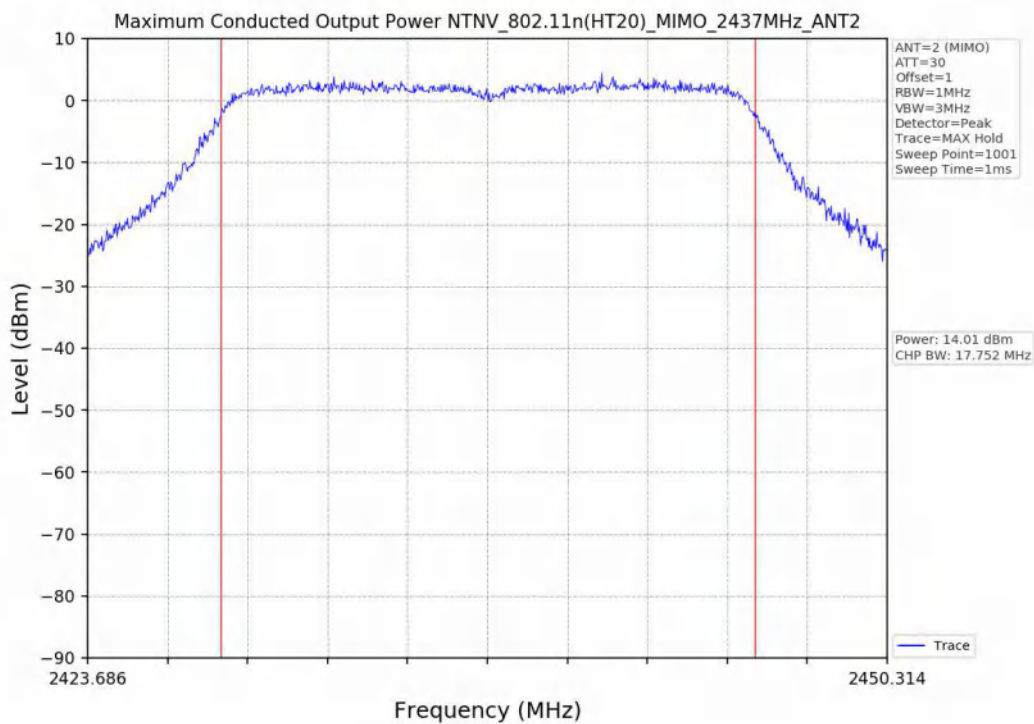
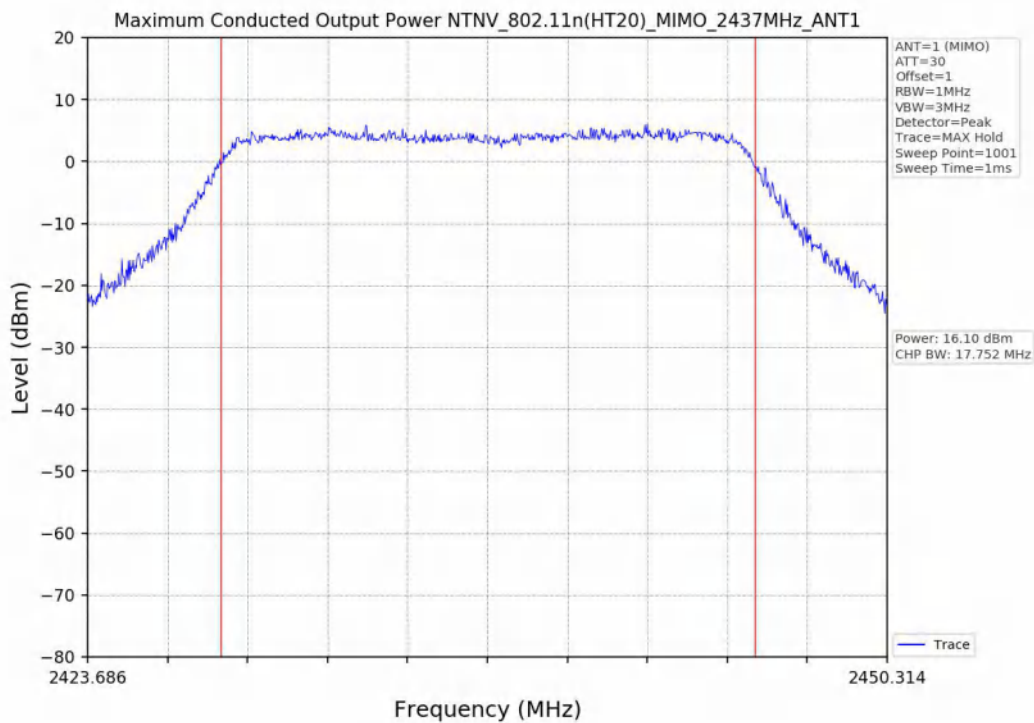


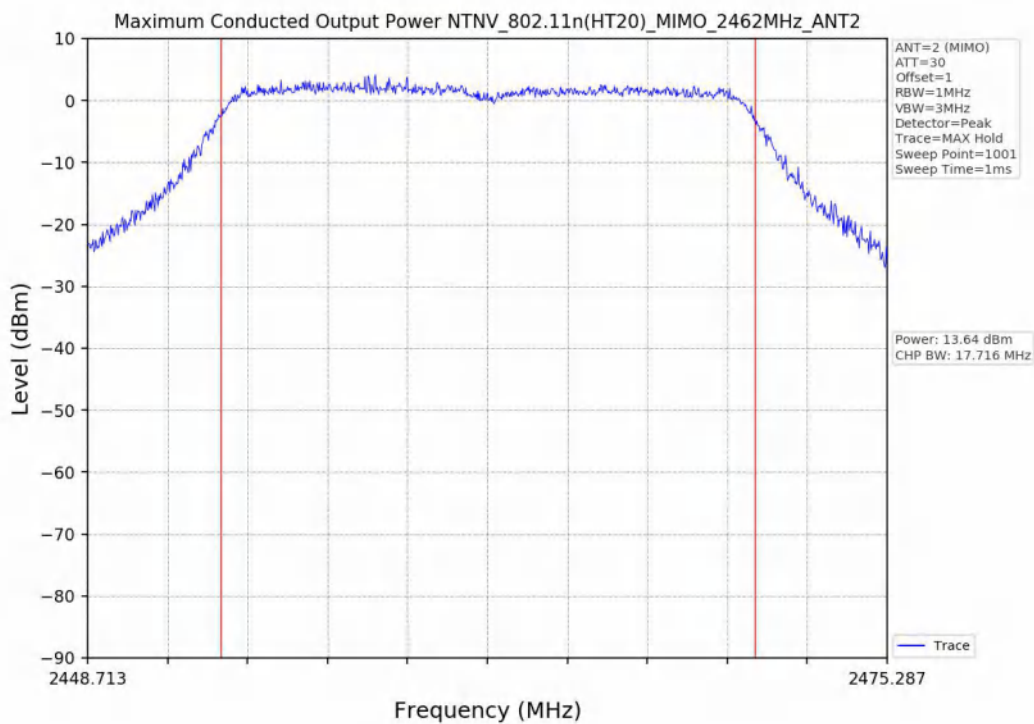
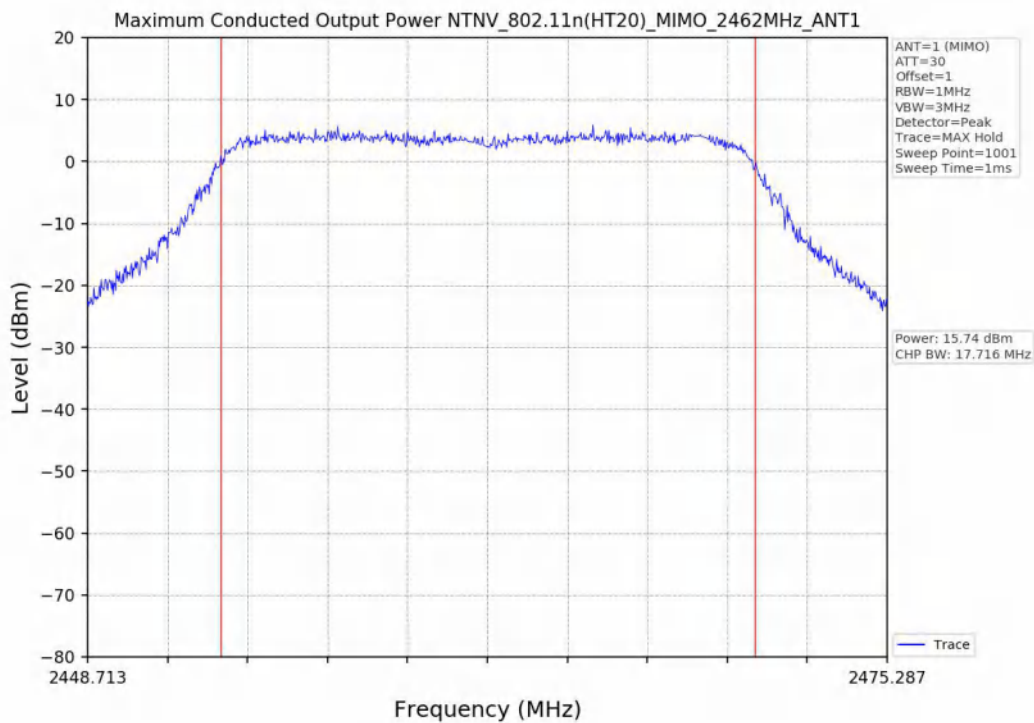


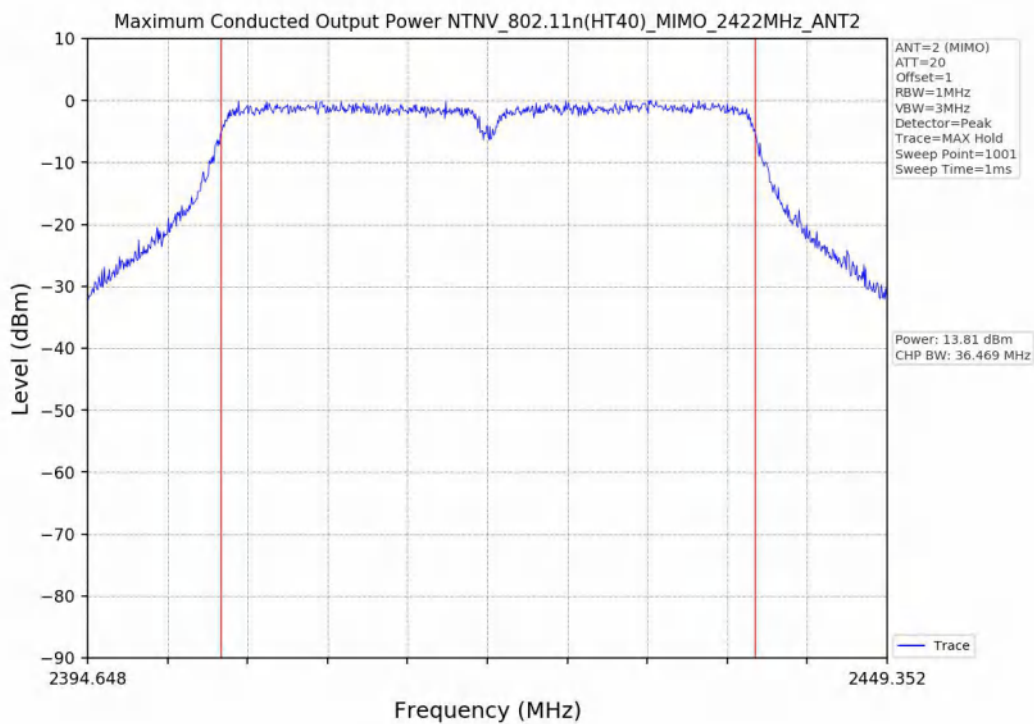
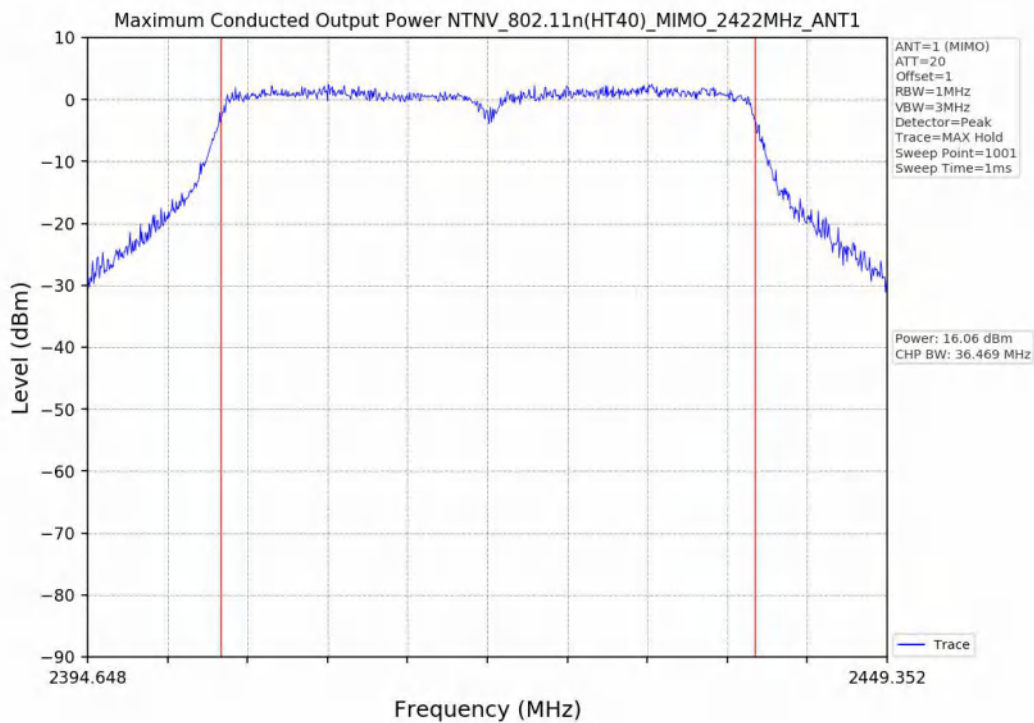


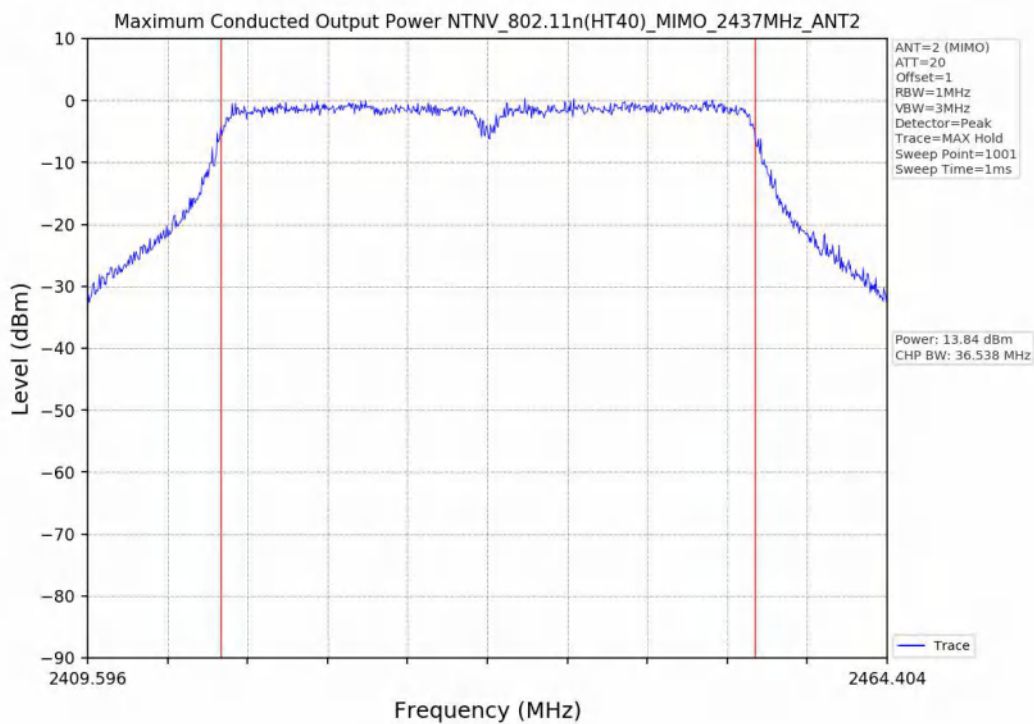
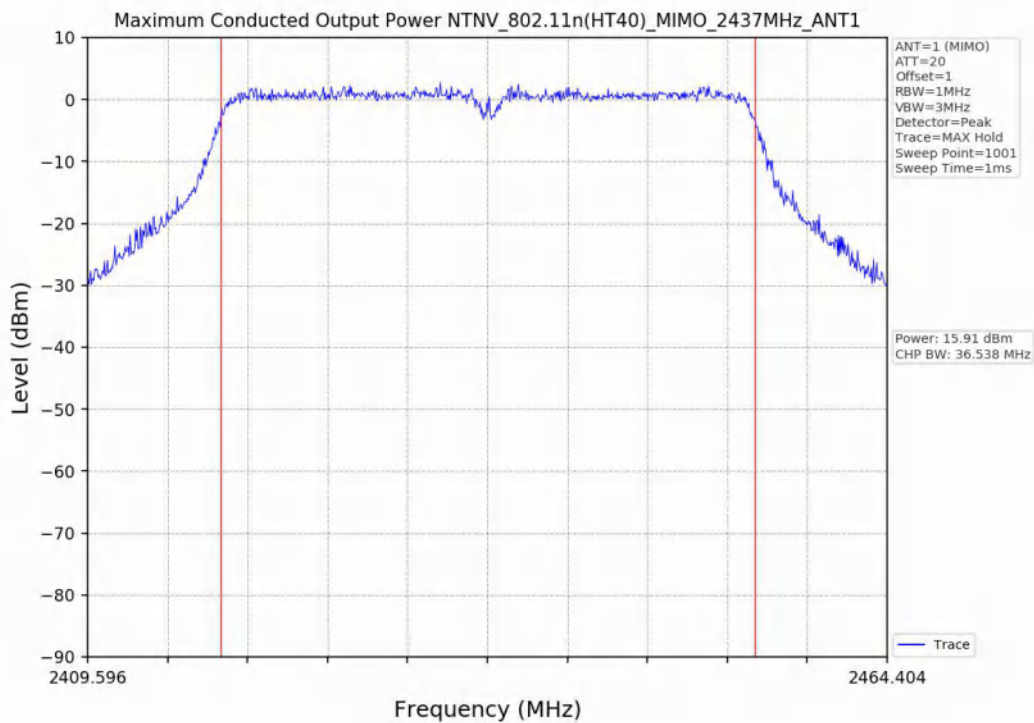


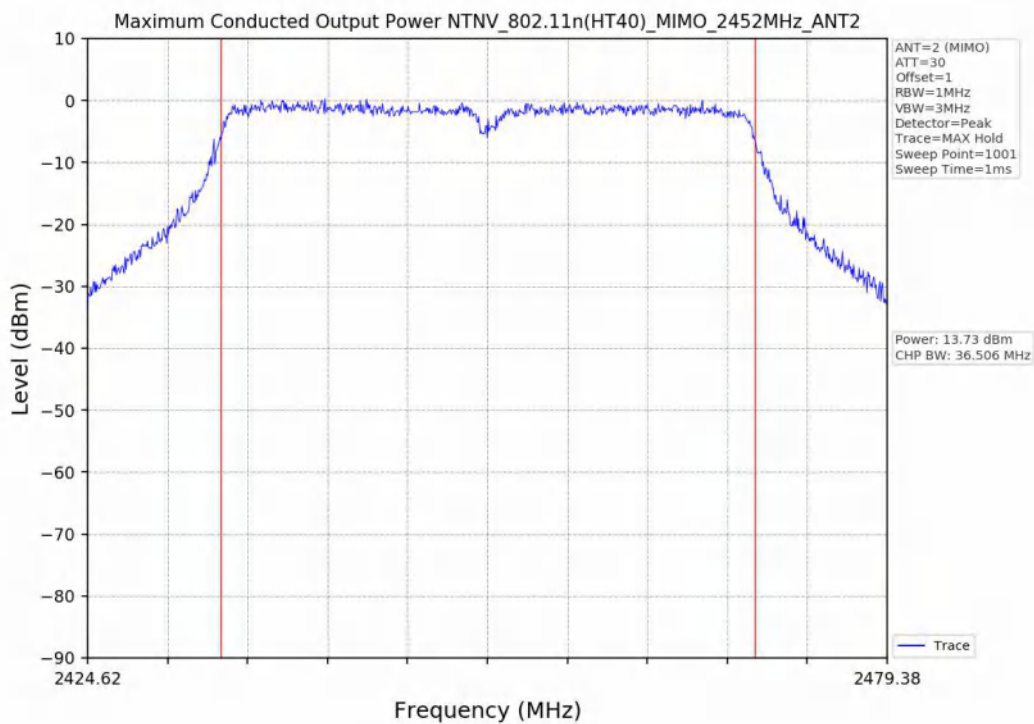
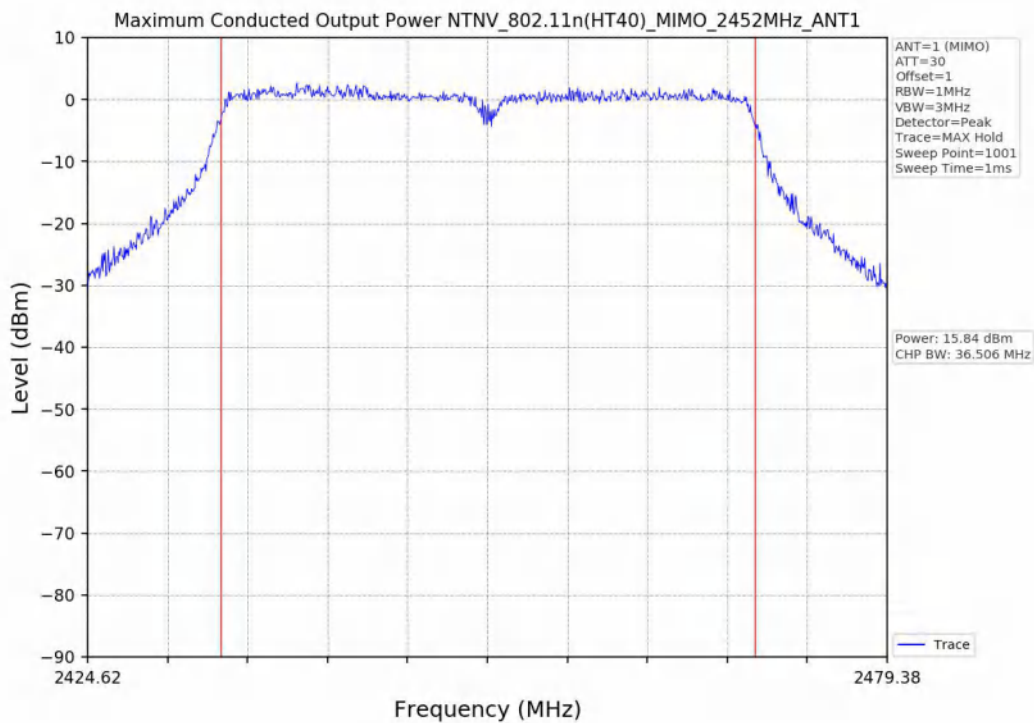












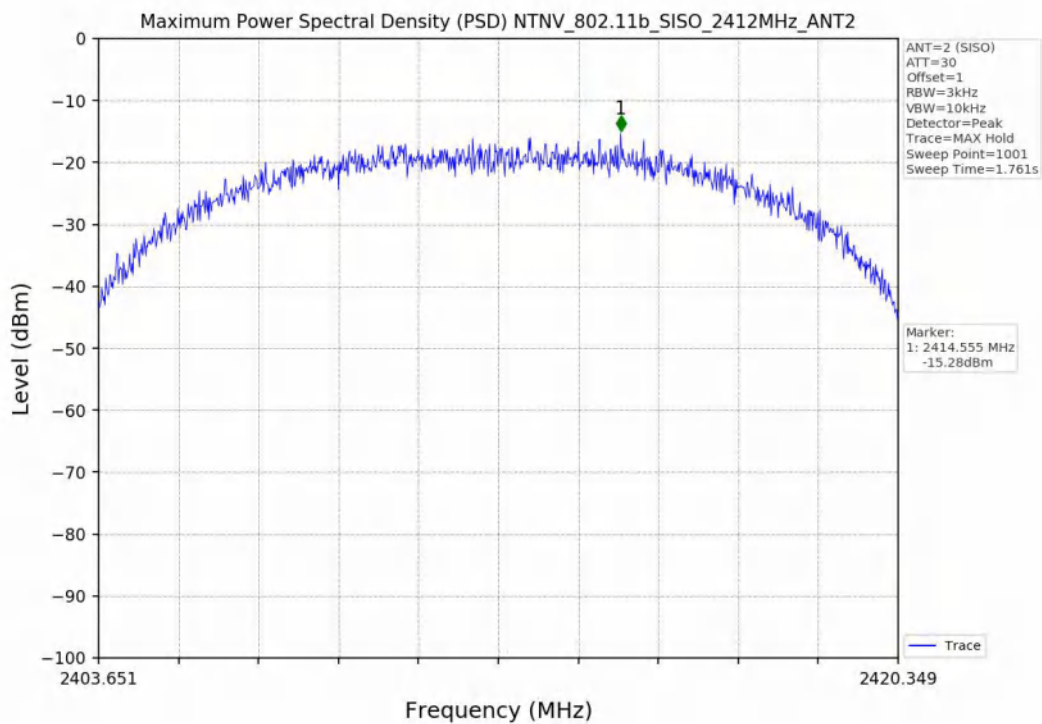
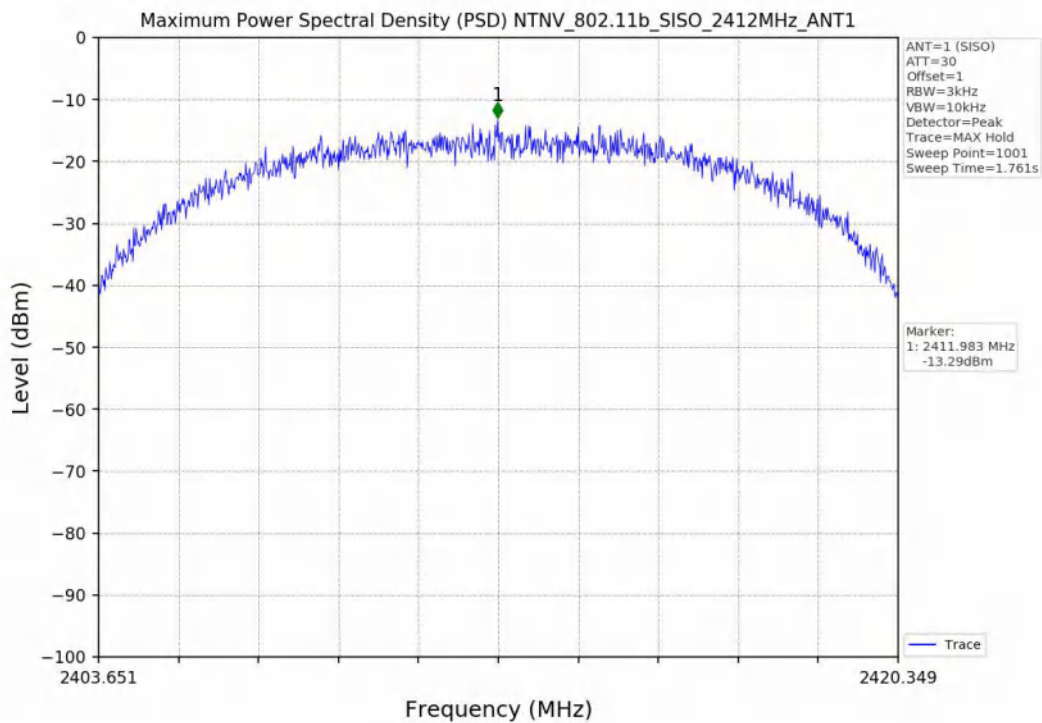
3. Maximum Power Spectral Density (PSD)

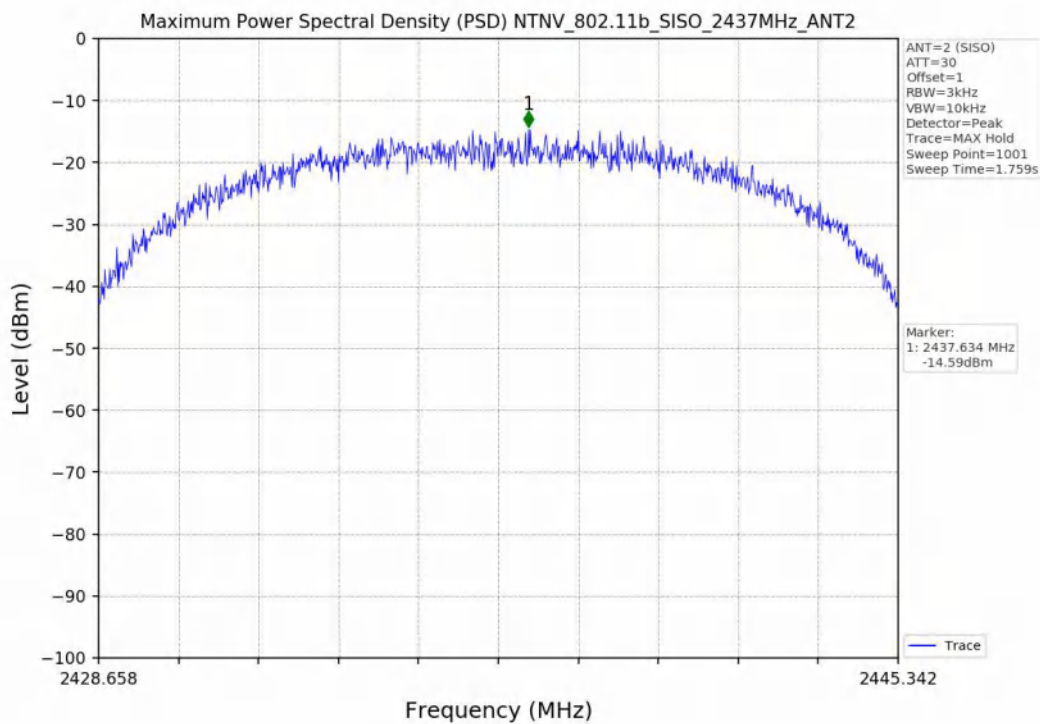
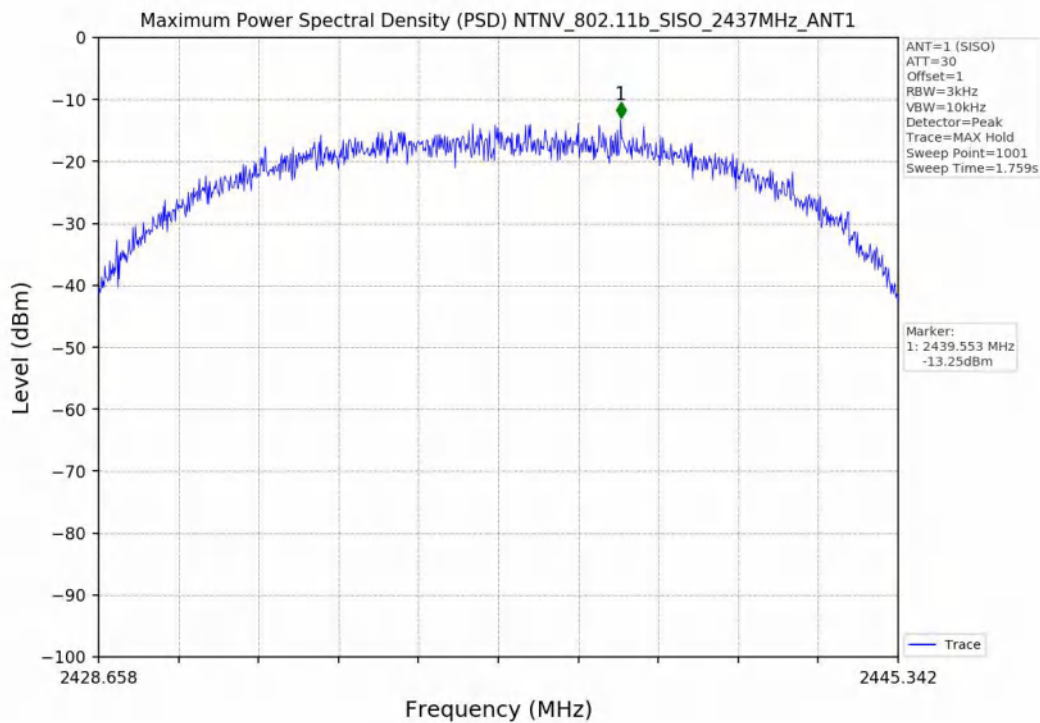
3.1 Test Result

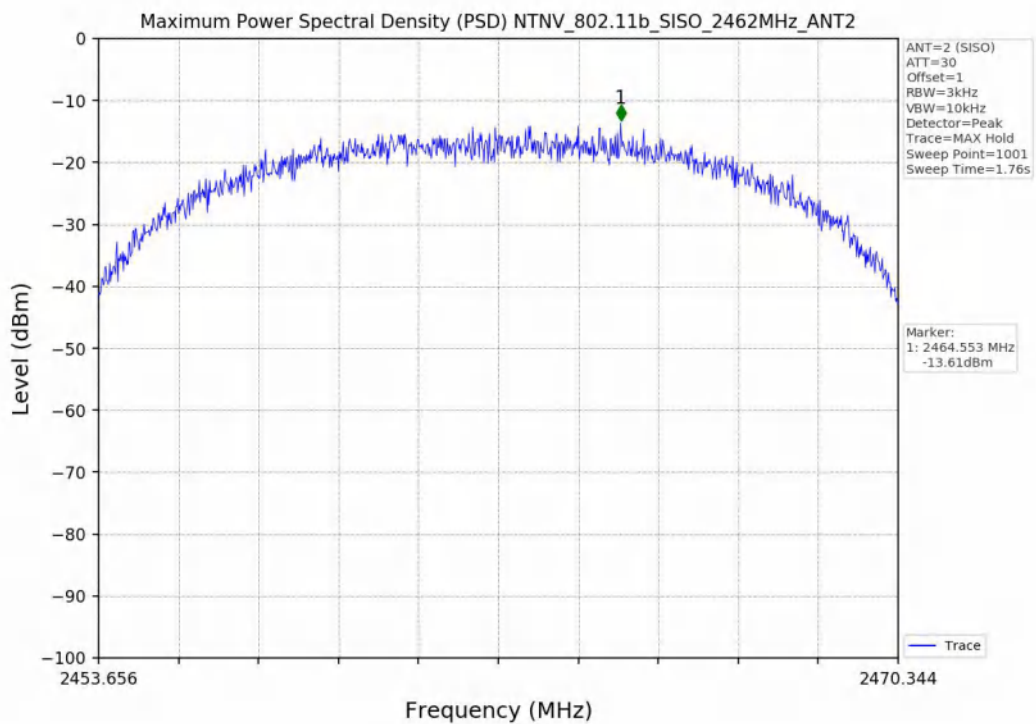
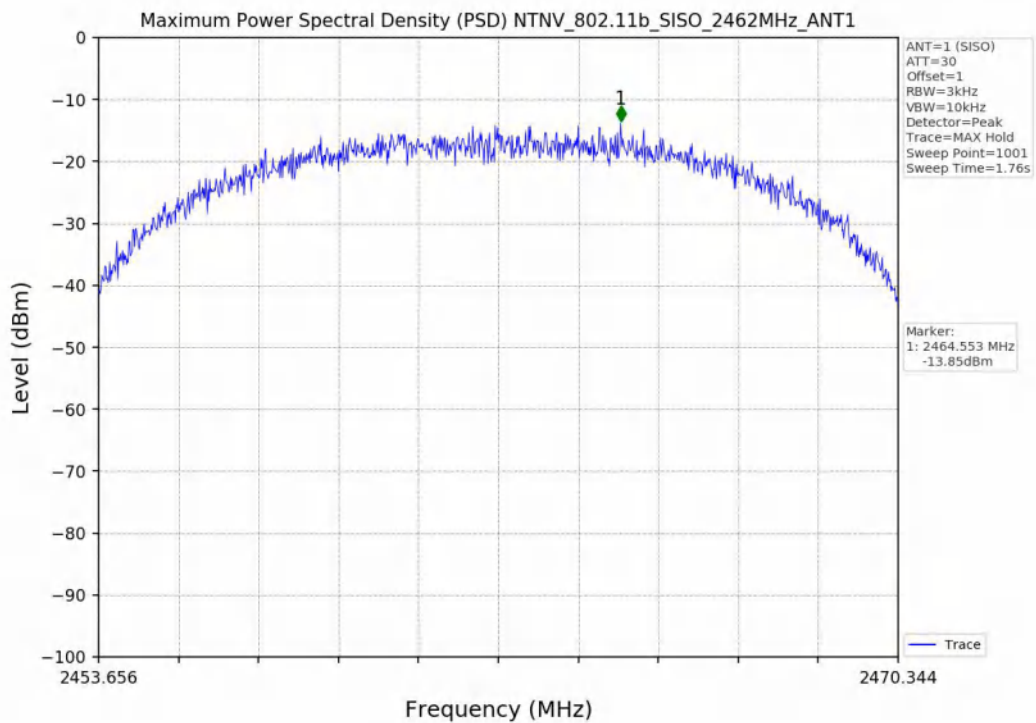
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-13.29	-15.28	/	≤7.99	PASS
	2437	SISO	-13.25	-14.59	/	≤7.99	PASS
	2462	SISO	-13.85	-13.61	/	≤7.99	PASS
802.11g	2412	SISO	-16.18	-18.89	/	≤7.99	PASS
	2437	SISO	-16.34	-18.46	/	≤7.99	PASS
	2462	SISO	-11.28	-13.65	/	≤7.99	PASS
802.11n(HT20)	2412	MIMO	-16.27	-17.80	-13.96	≤7.99	PASS
	2437	MIMO	-15.16	-19.95	-13.92	≤7.99	PASS
	2462	MIMO	-16.58	-19.26	-14.71	≤7.99	PASS
802.11n(HT40)	2422	MIMO	-19.04	-22.78	-17.51	≤7.99	PASS
	2437	MIMO	-17.91	-22.95	-16.73	≤7.99	PASS
	2452	MIMO	-19.46	-22.50	-17.71	≤7.99	PASS

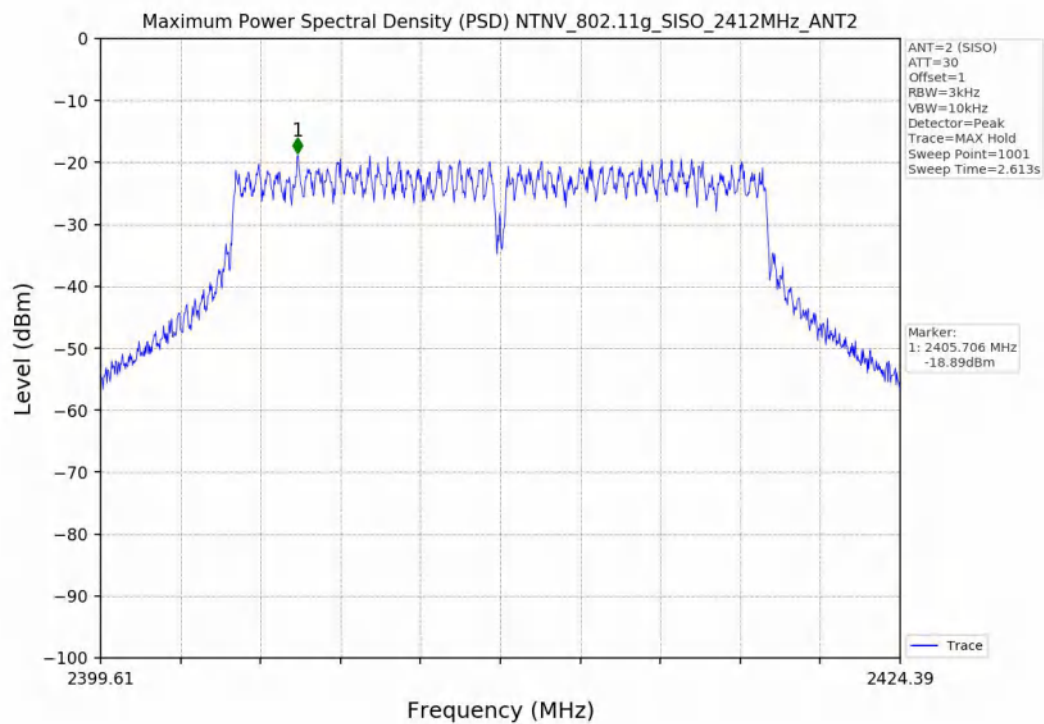
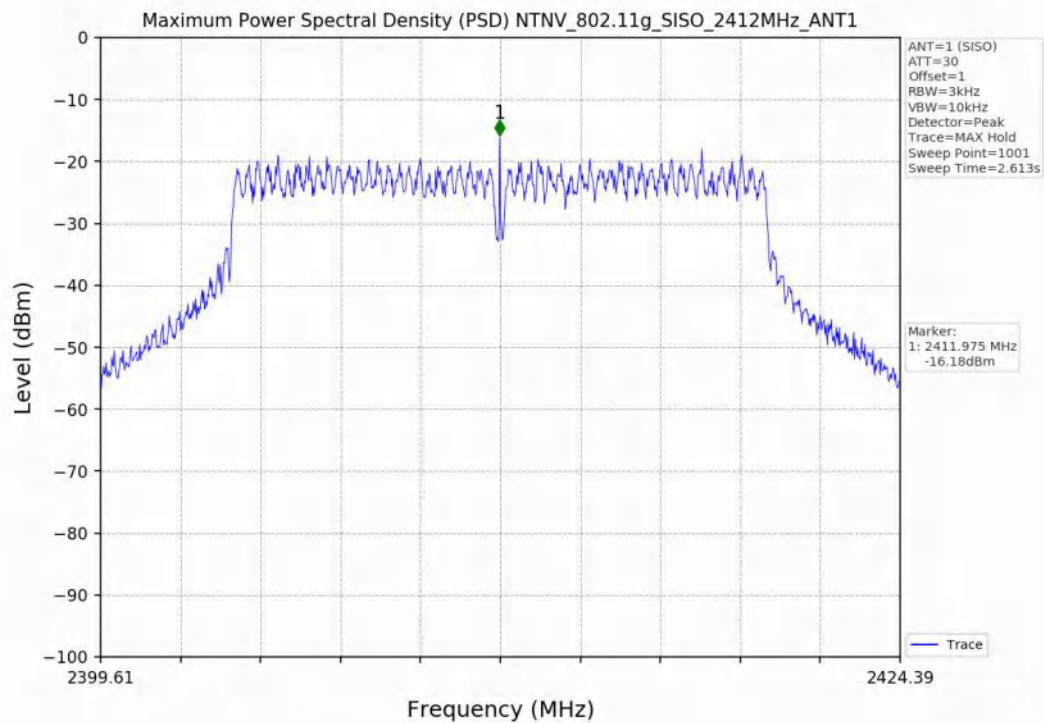
Directional gain=3dBi+10 log (2) = 6.01dBi > 6dBi, So the Conducted Power limit shall be reduced to 8-(6.01-6) = 7.99

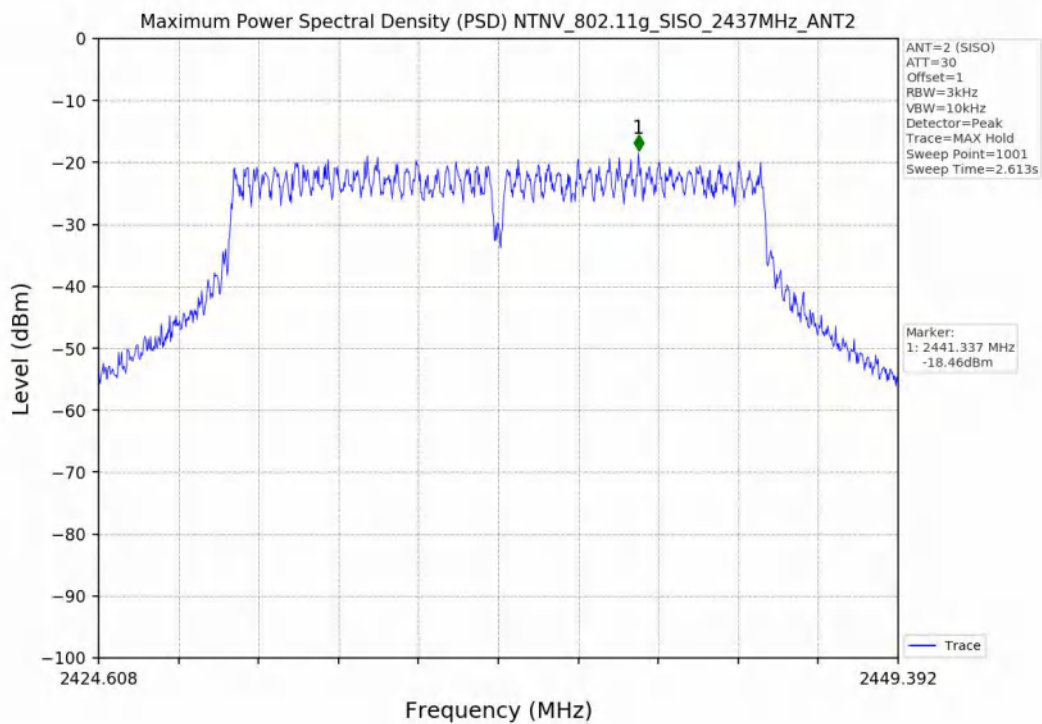
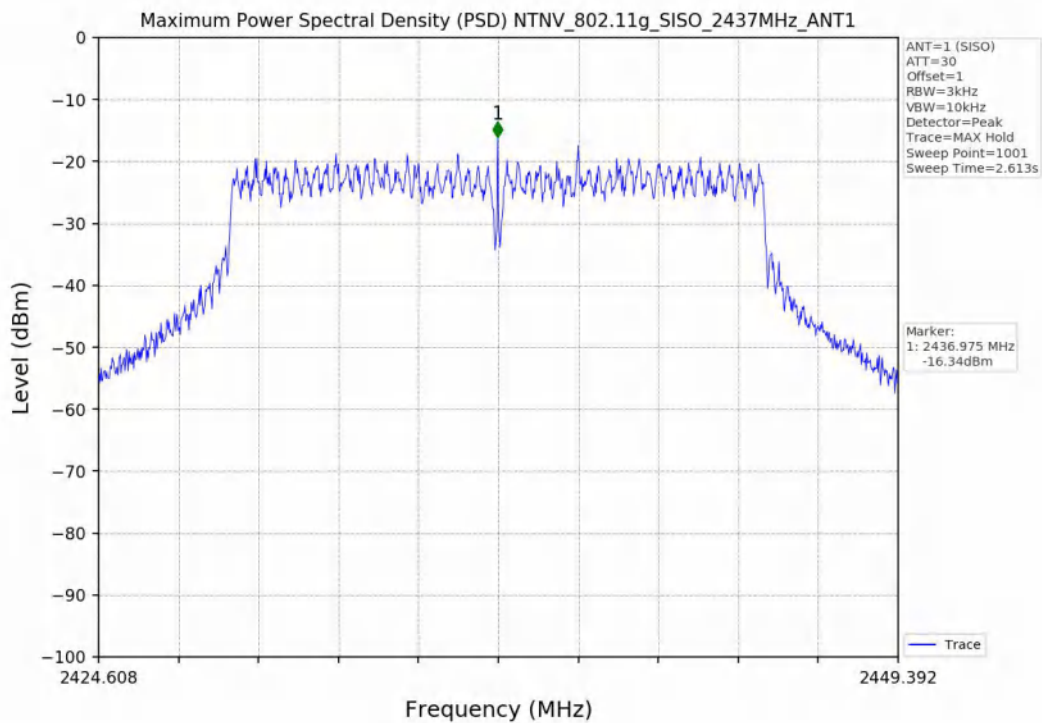
3.2 Test Graph

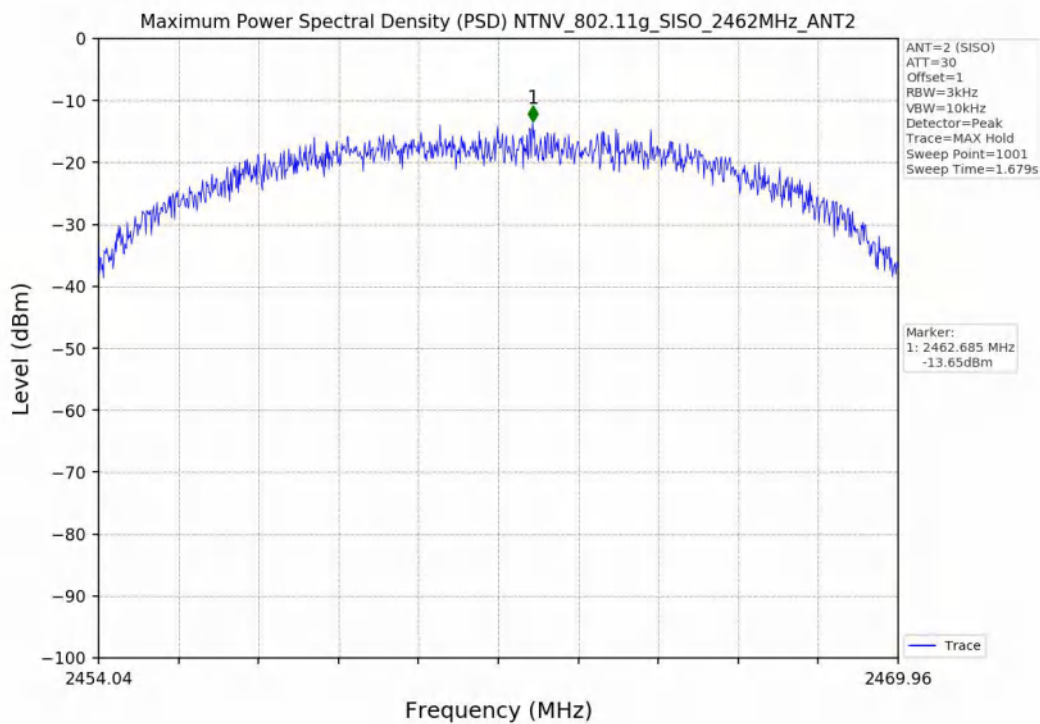
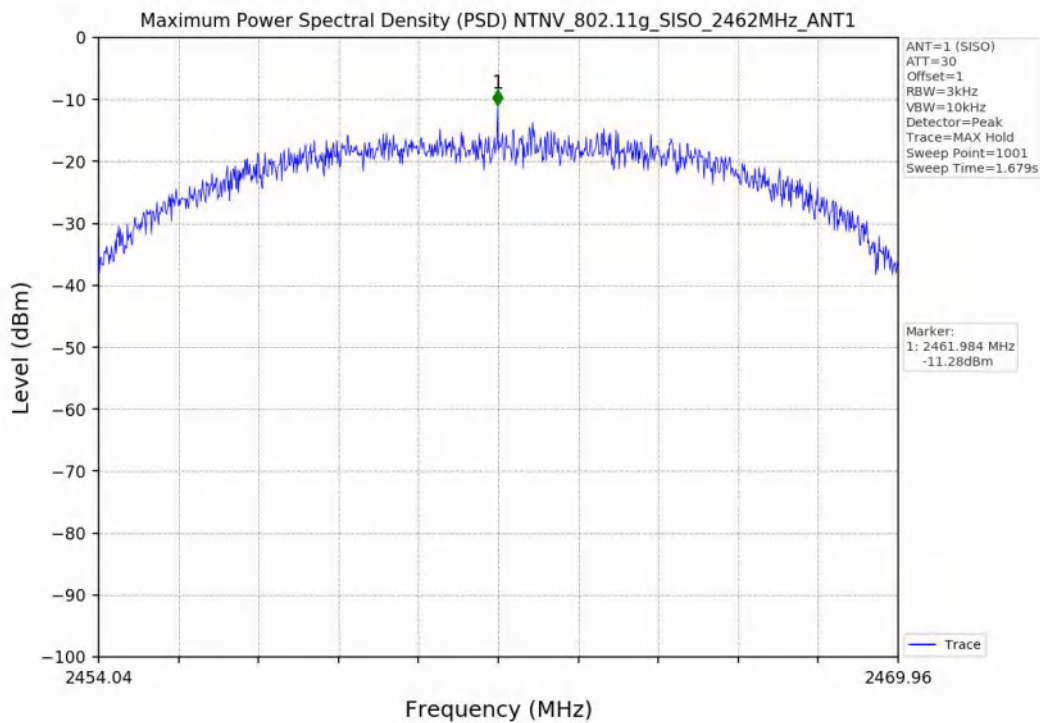


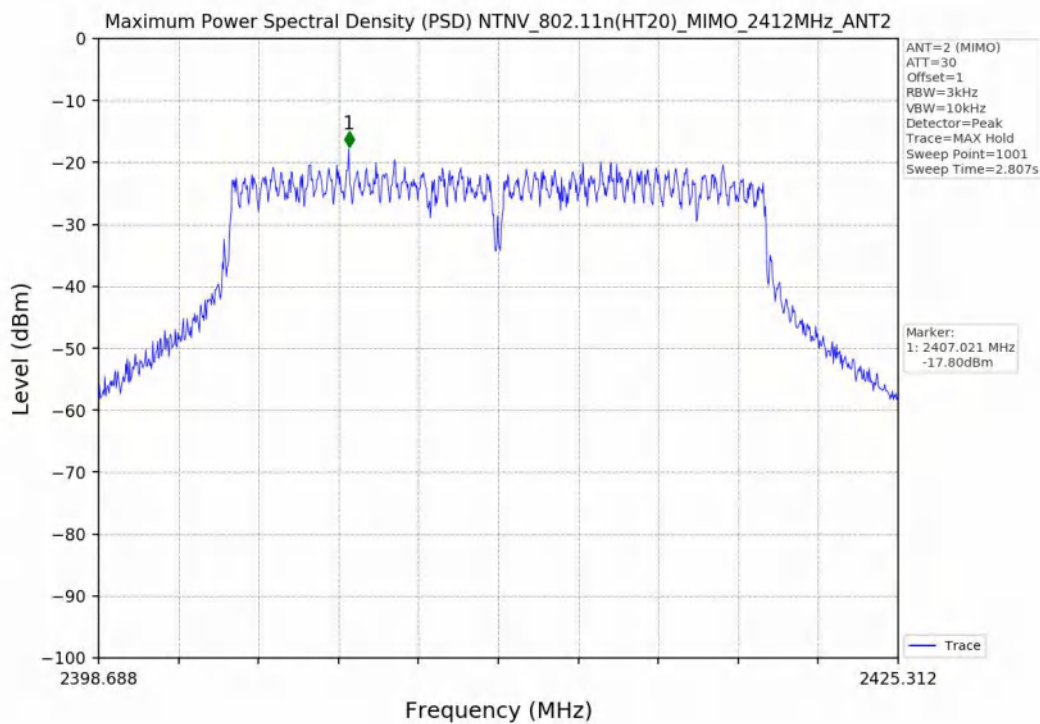
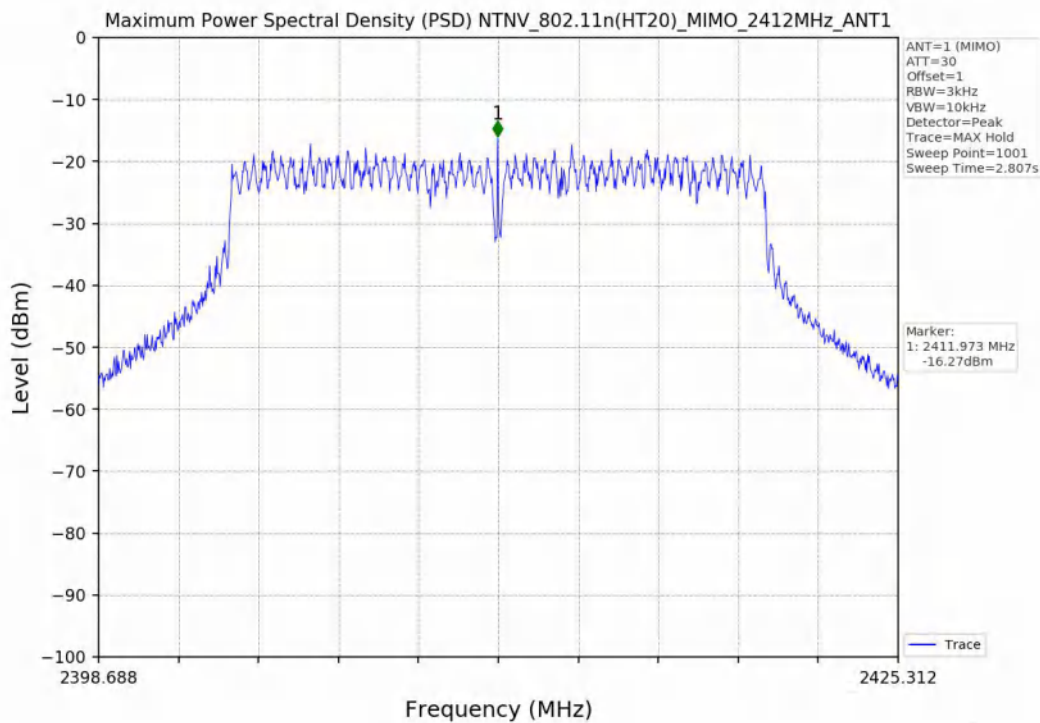


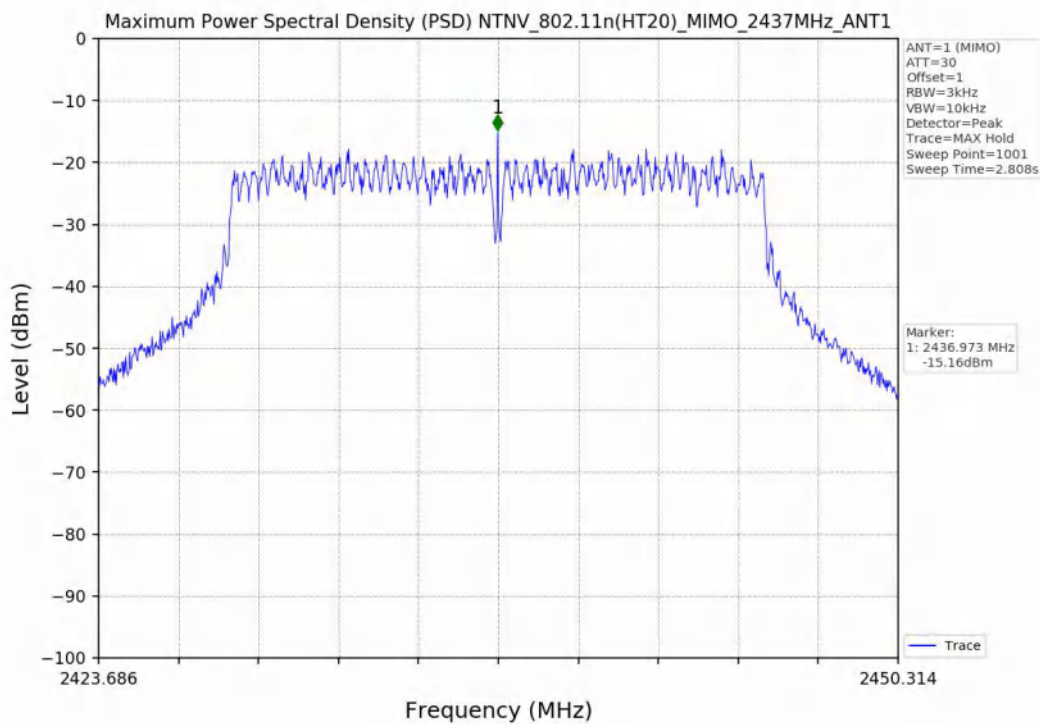
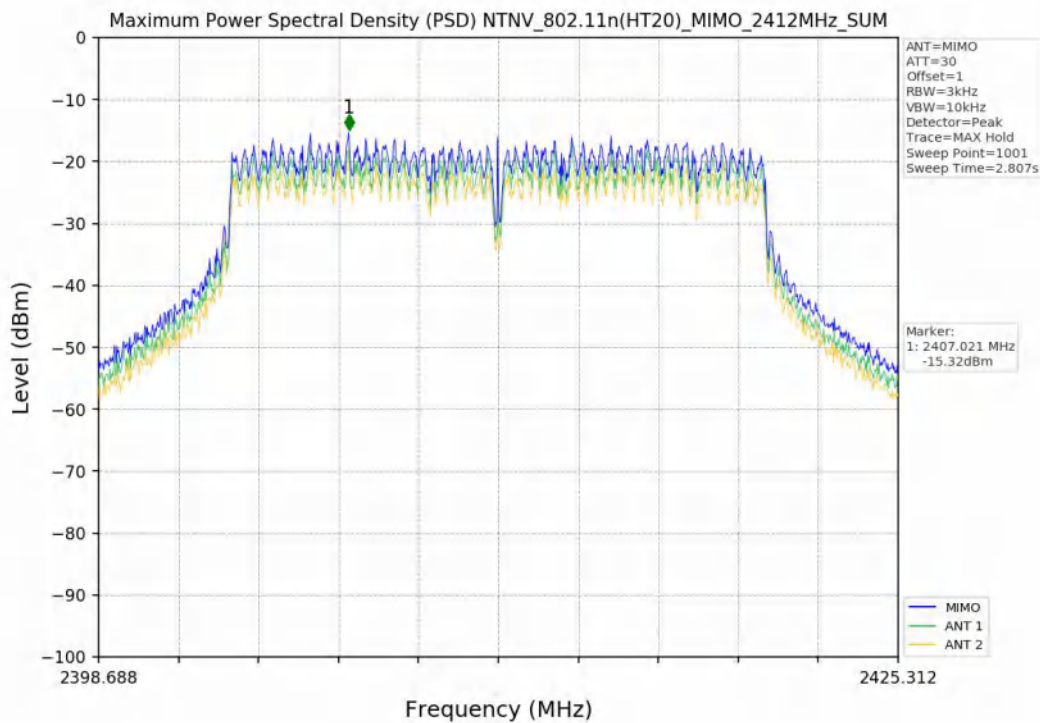


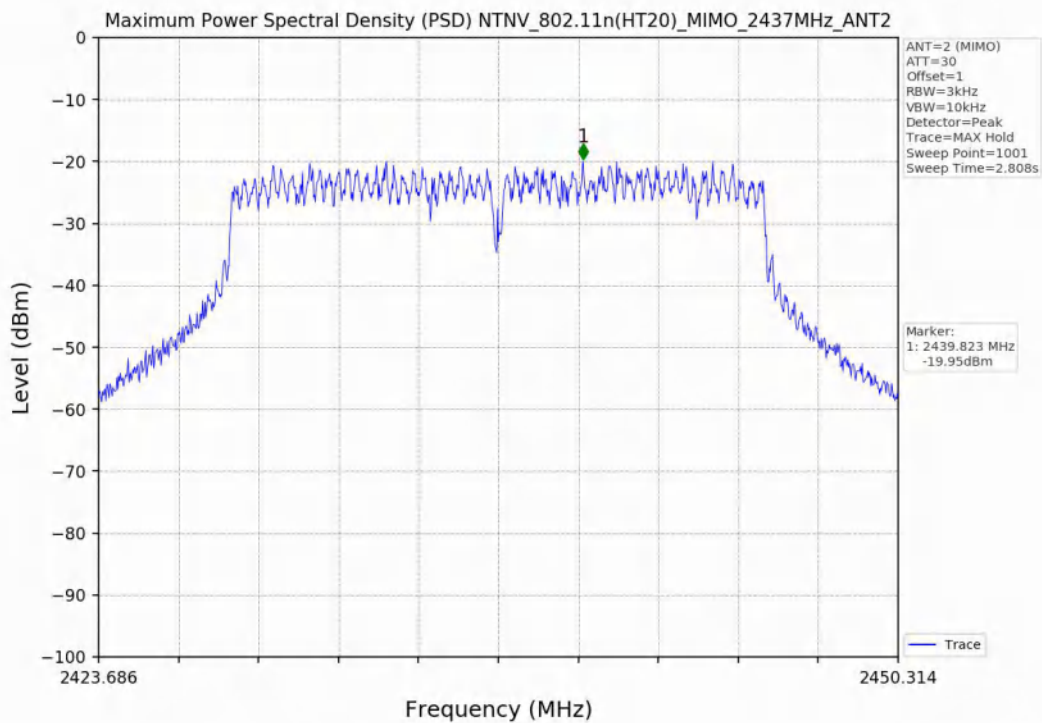


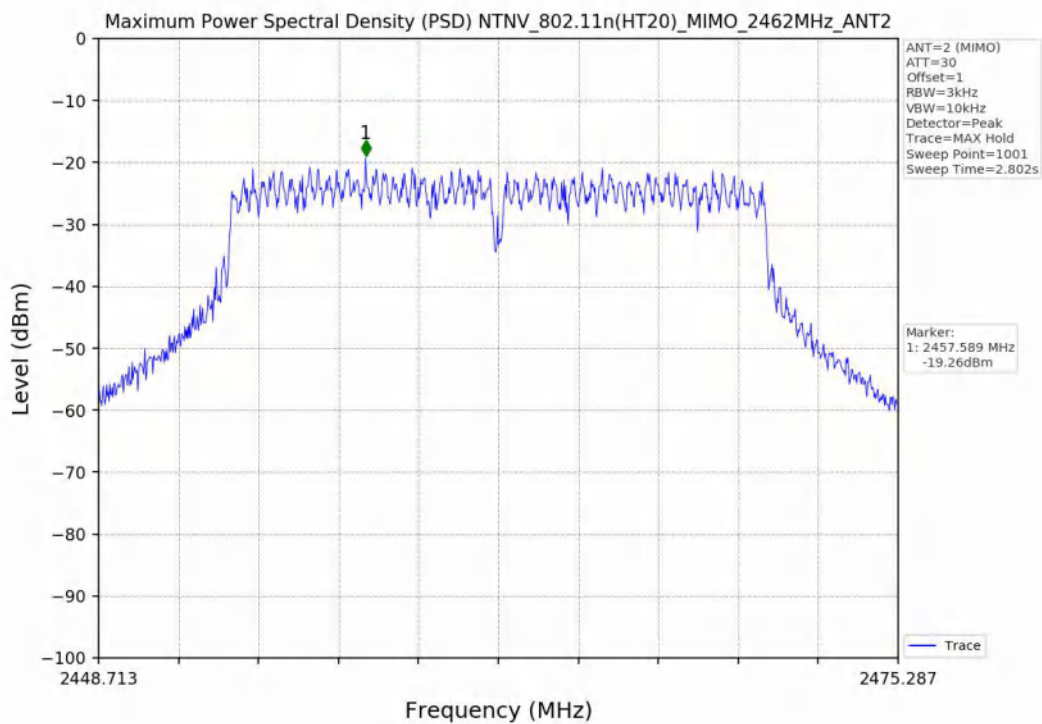
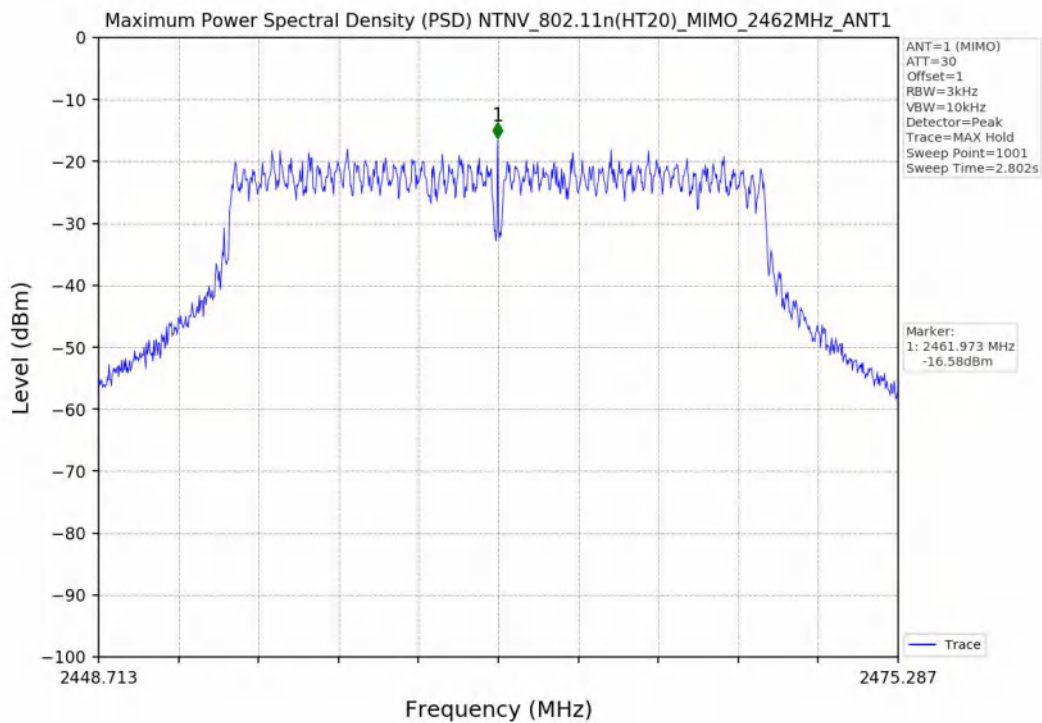


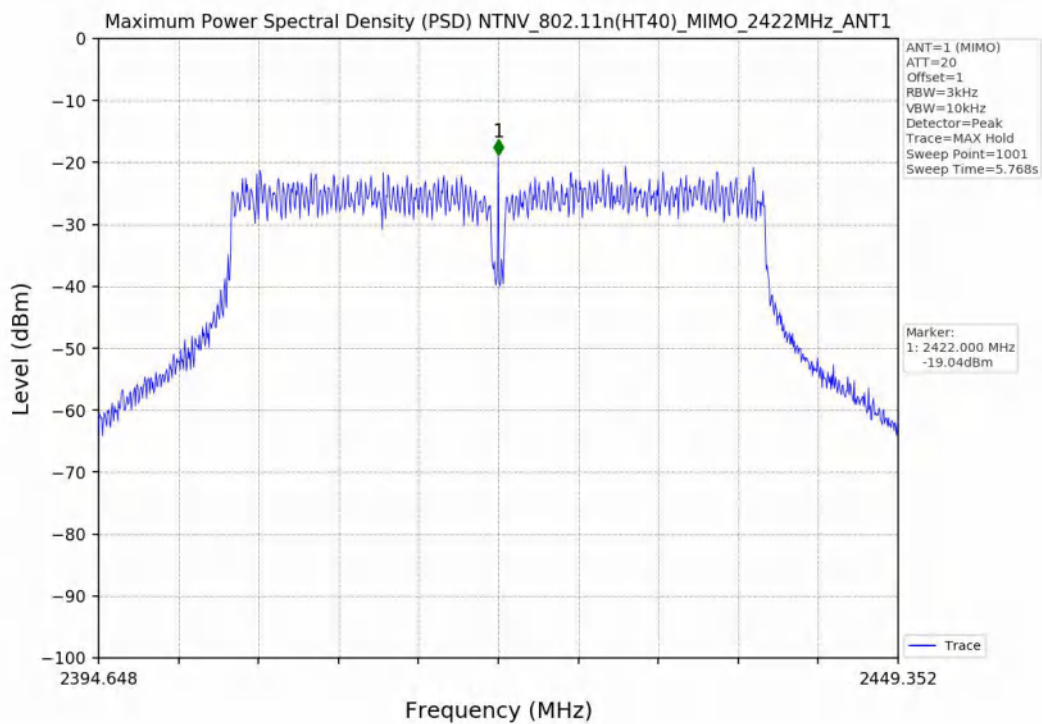
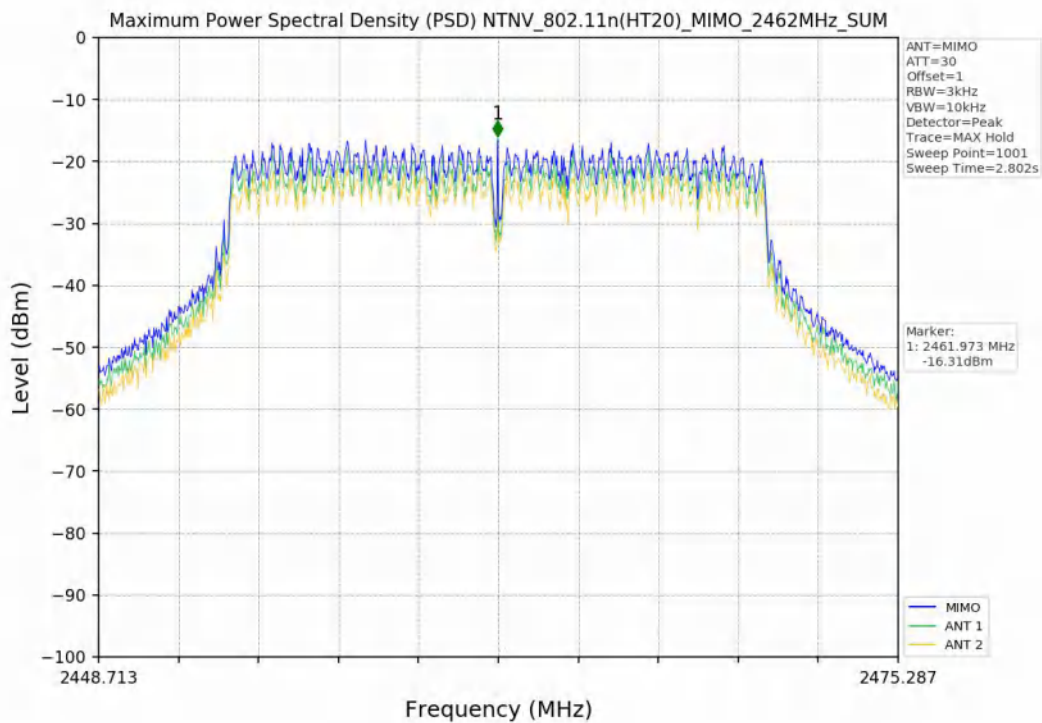


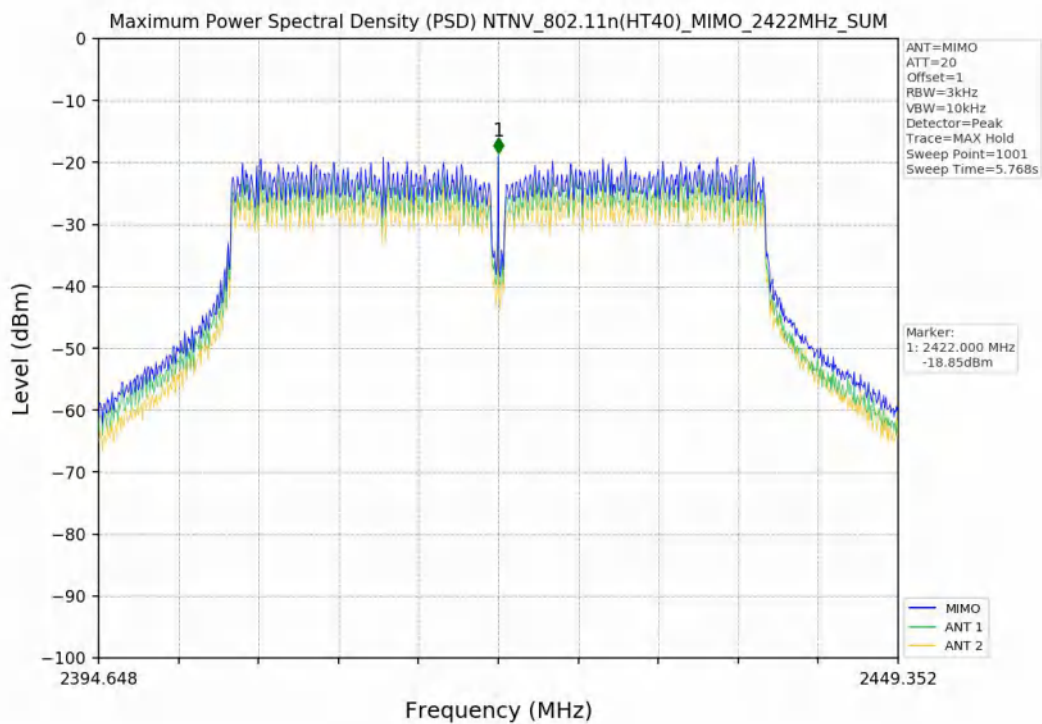
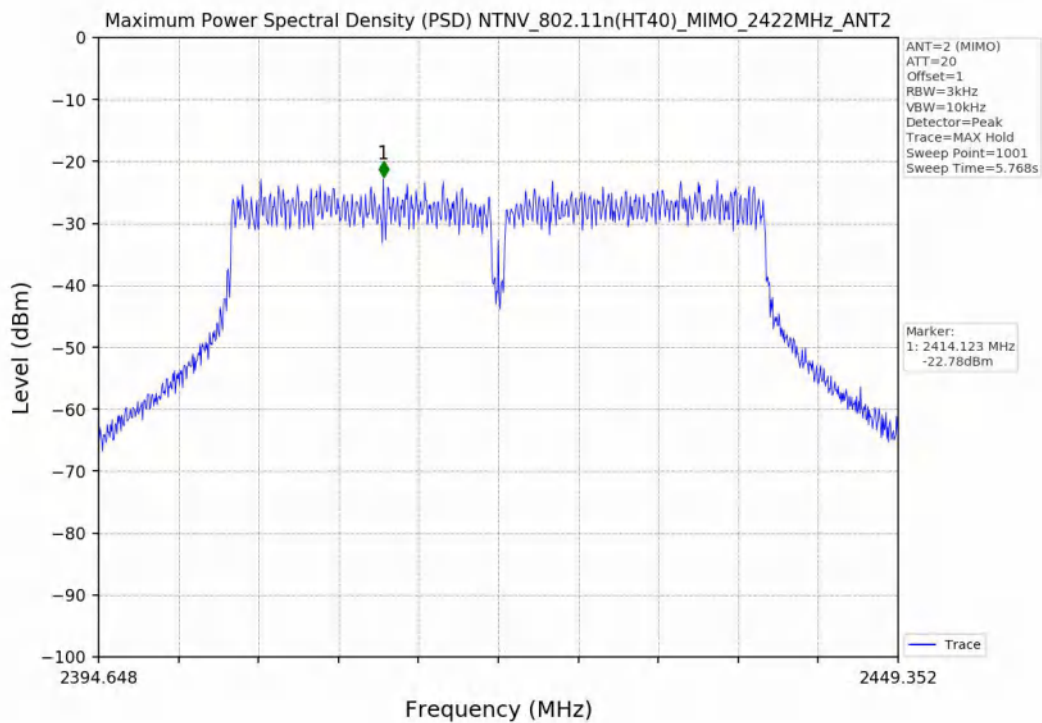


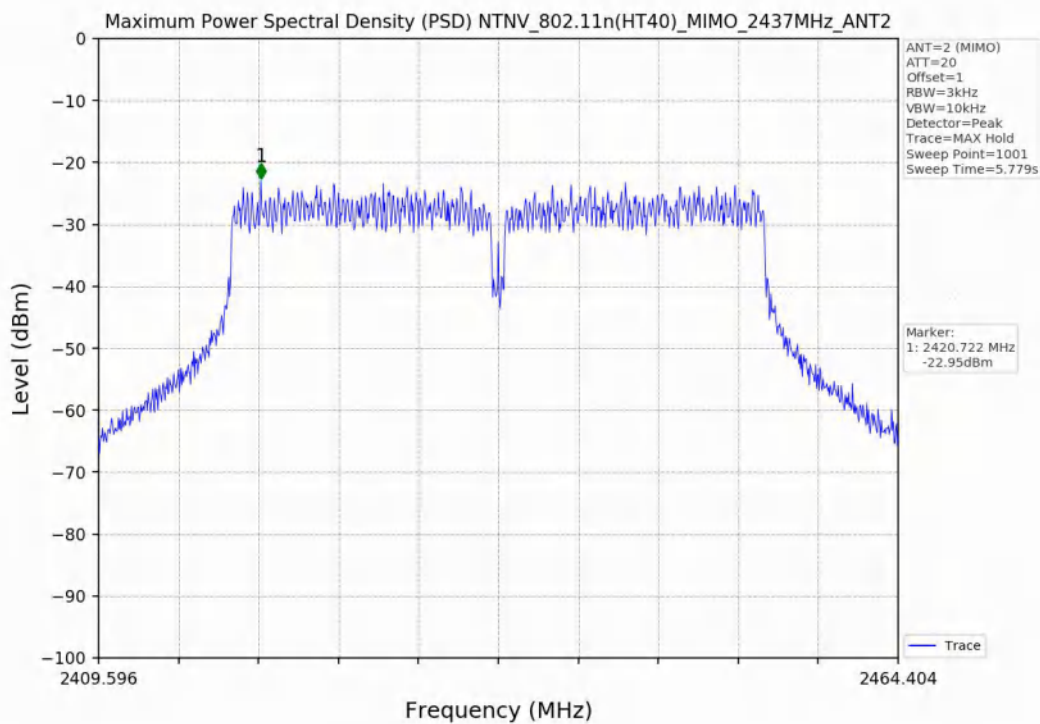
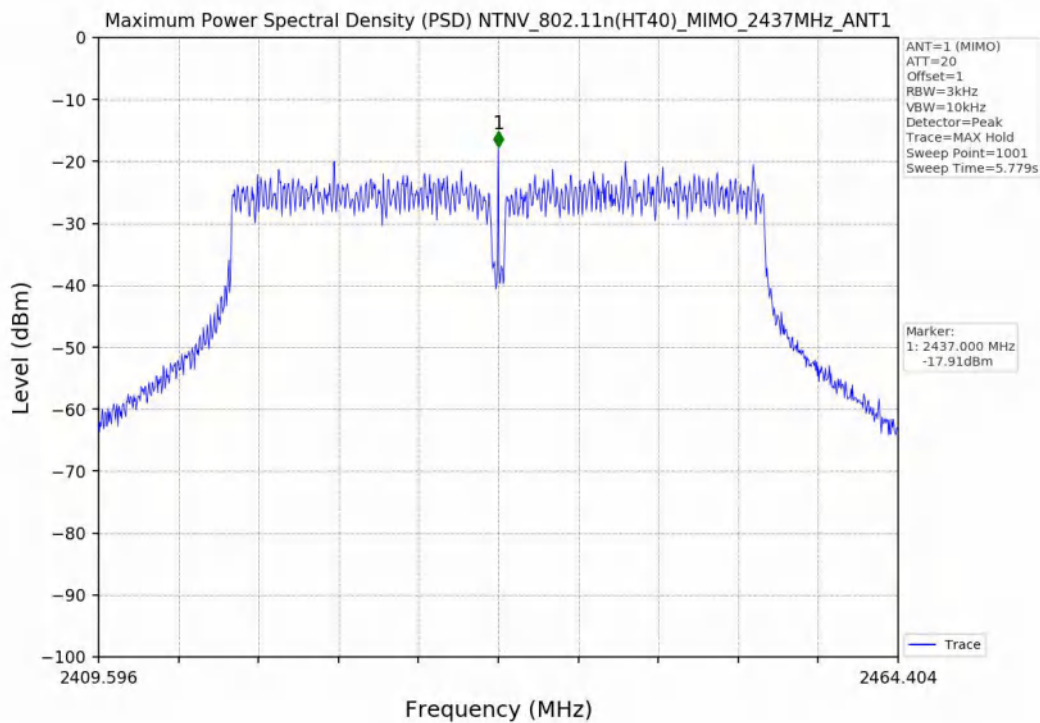


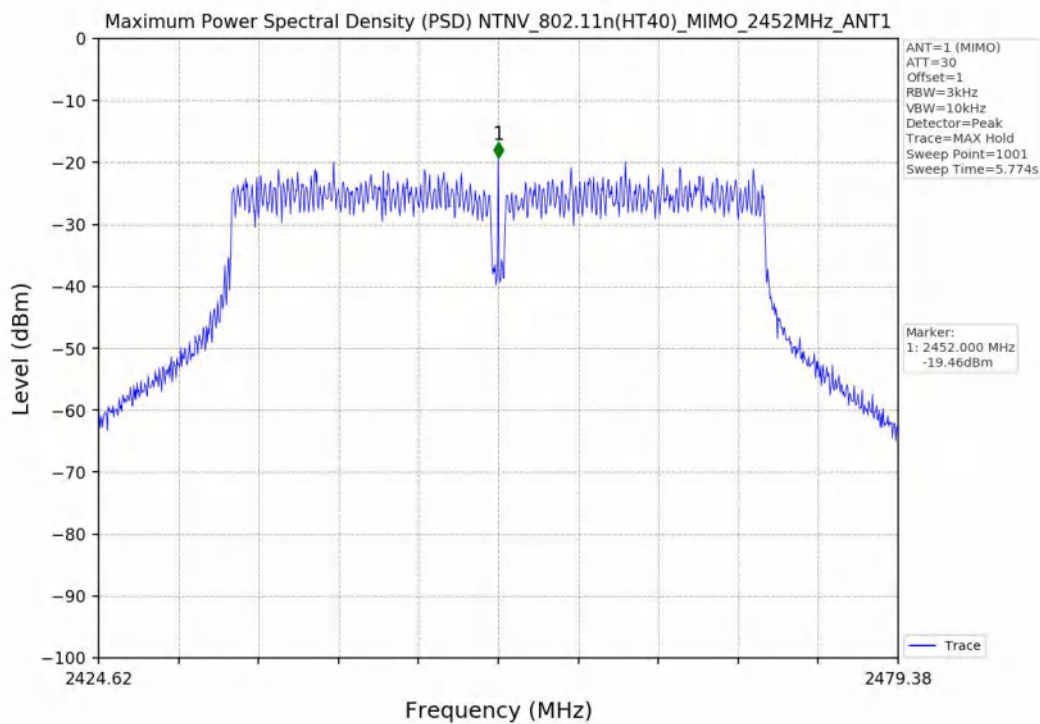
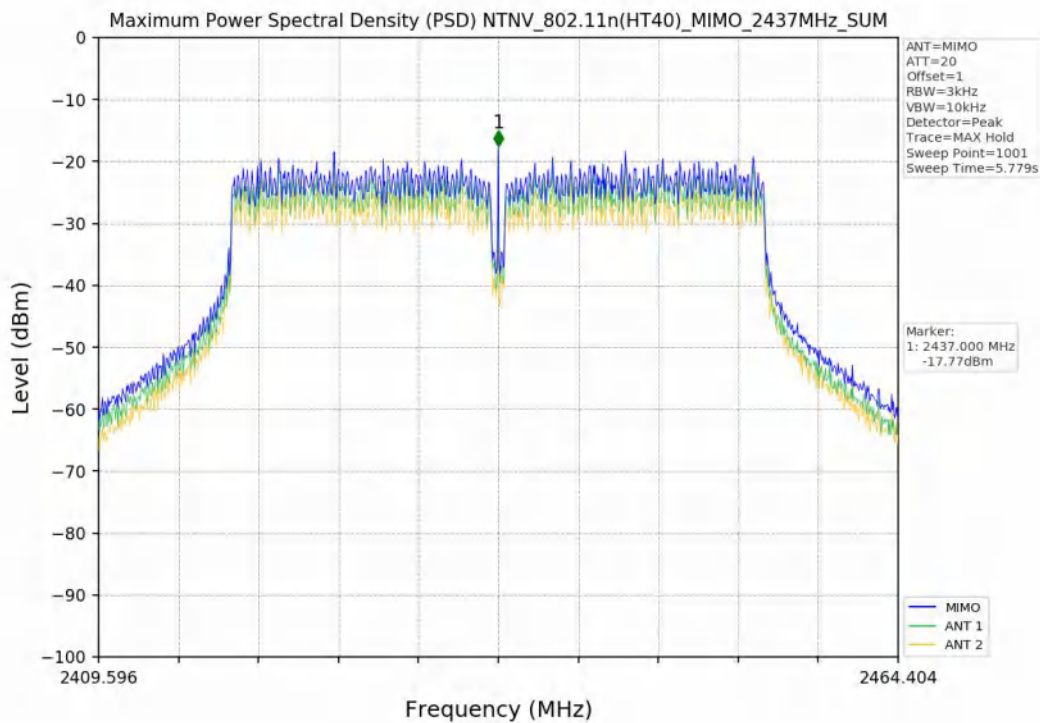


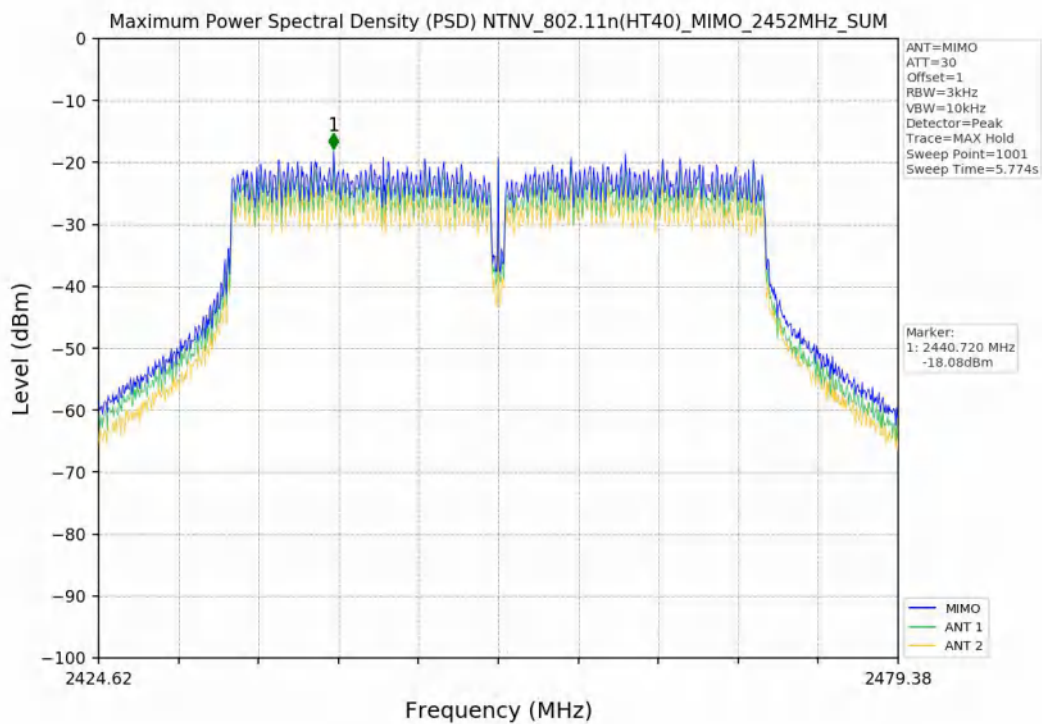
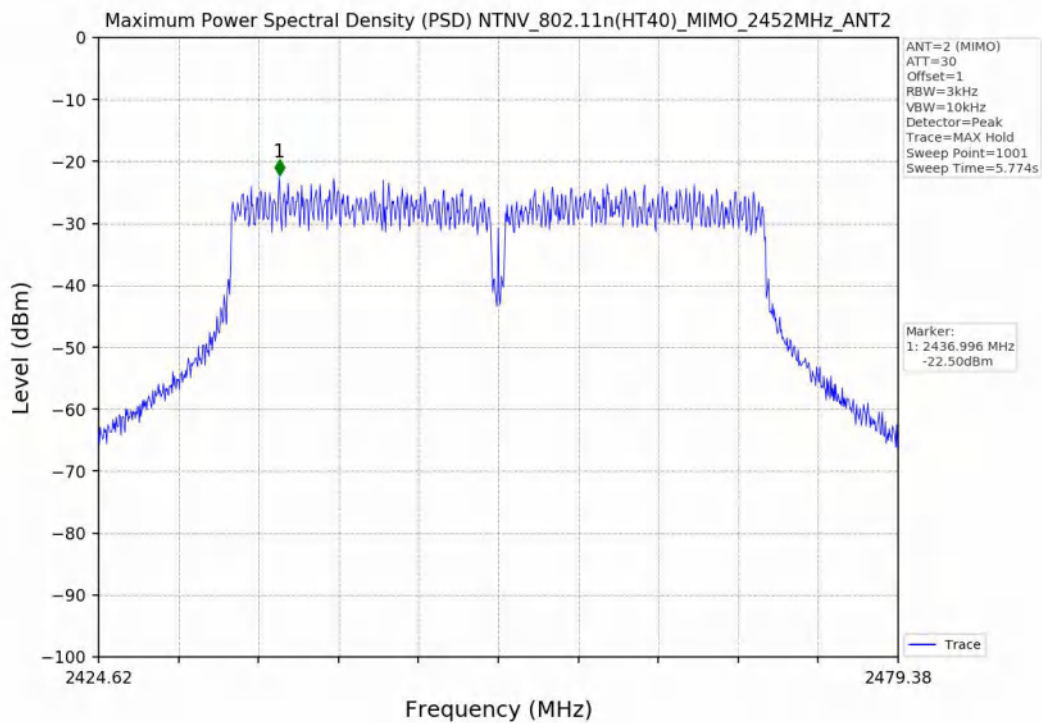












4. Unwanted Emissions in Non-restricted Frequency Bands

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	-19.25	PASS
	2437	SISO	1	Refer to test graph	-19.25	PASS
	2462	SISO	1	Refer to test graph	-19.25	PASS
802.11g	2412	SISO	1	Refer to test graph	-19.77	PASS
	2437	SISO	1	Refer to test graph	-19.77	PASS
	2462	SISO	1	Refer to test graph	-19.77	PASS
802.11n(HT20)	2412	MIMO	MIMO	Refer to test graph	-23.10	PASS
	2437	MIMO	MIMO	Refer to test graph	-23.10	PASS
	2462	MIMO	MIMO	Refer to test graph	-23.10	PASS
802.11n(HT40)	2422	MIMO	MIMO	Refer to test graph	-26.32	PASS
	2437	MIMO	MIMO	Refer to test graph	-26.32	PASS
	2452	MIMO	MIMO	Refer to test graph	-26.32	PASS

4.2 Test Graph

