



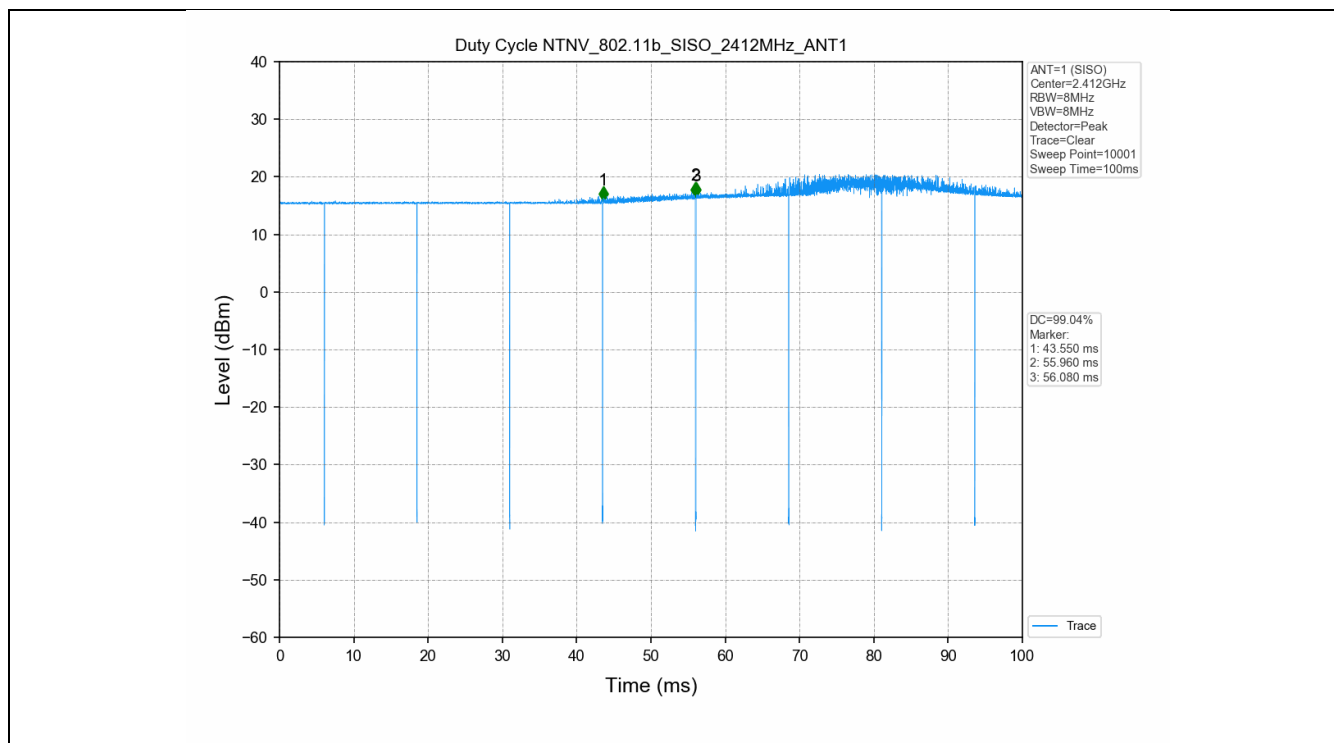
Appendix A for SHEM200400241002

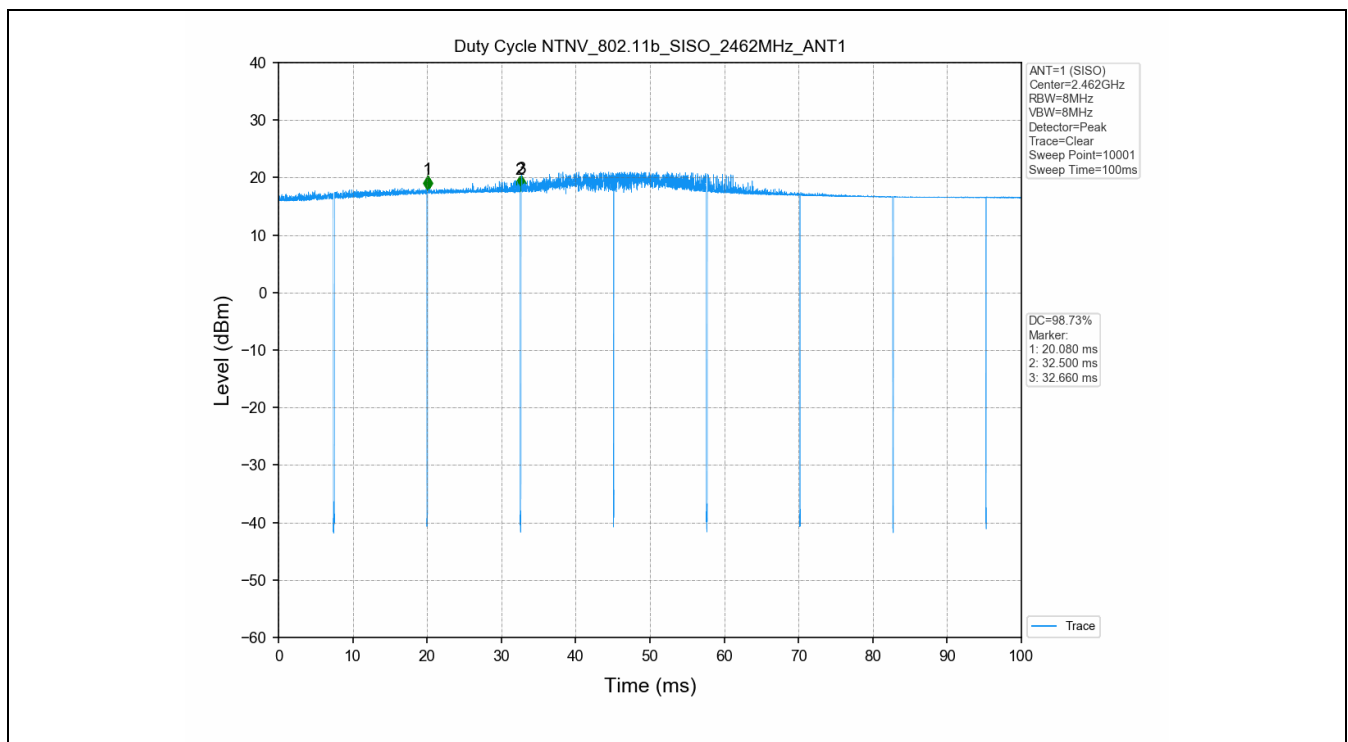
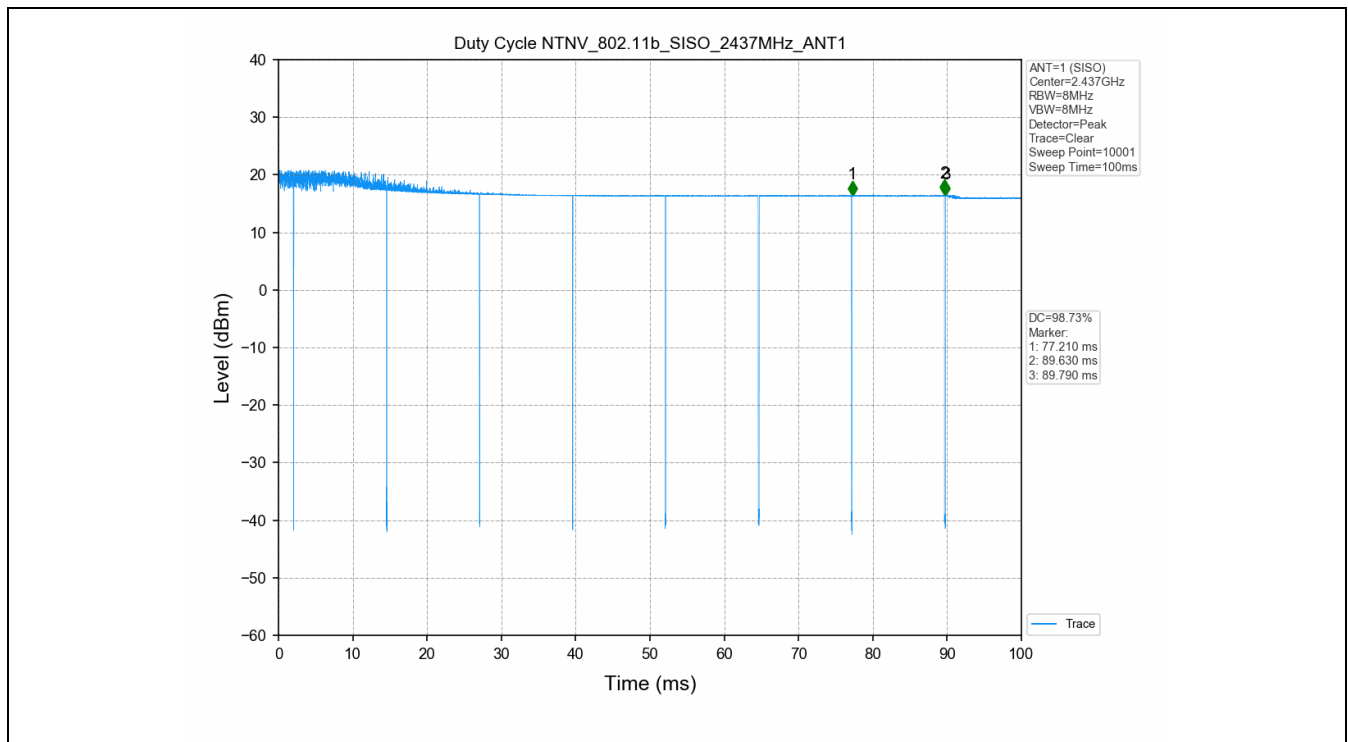
1. Duty Cycle

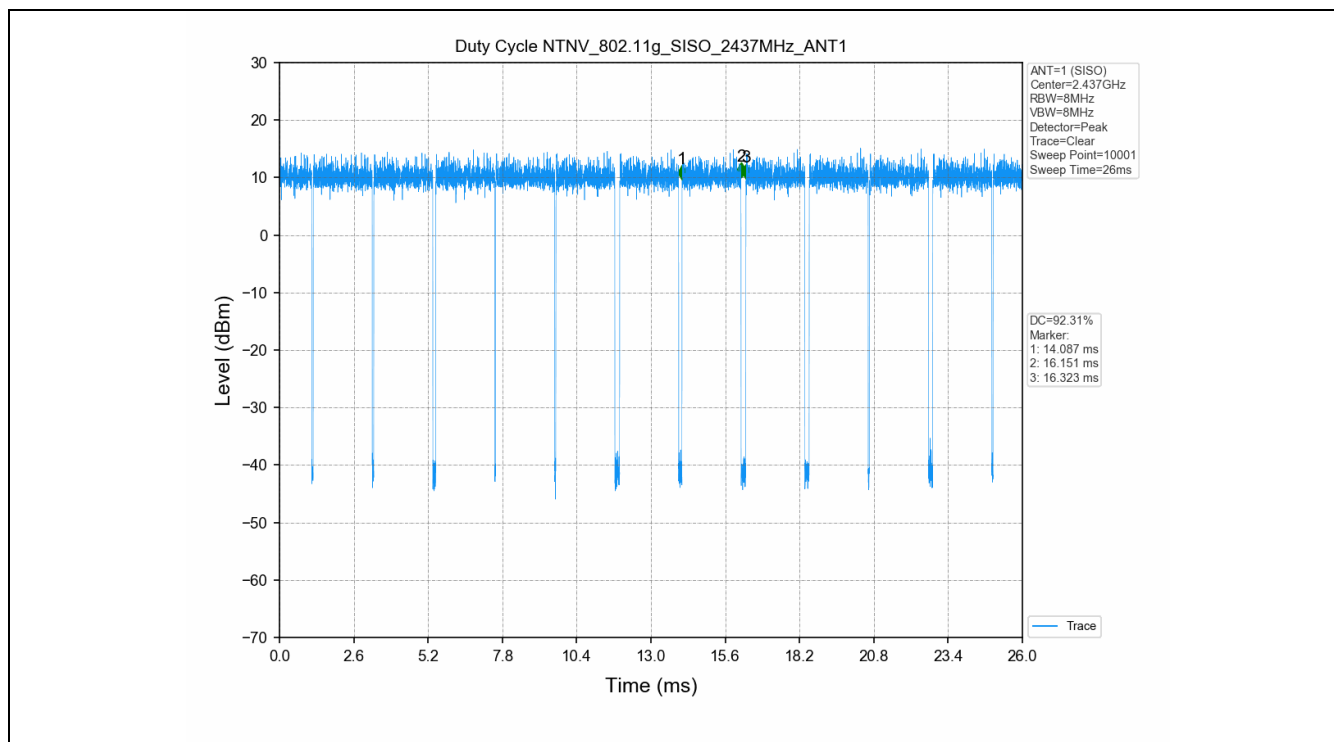
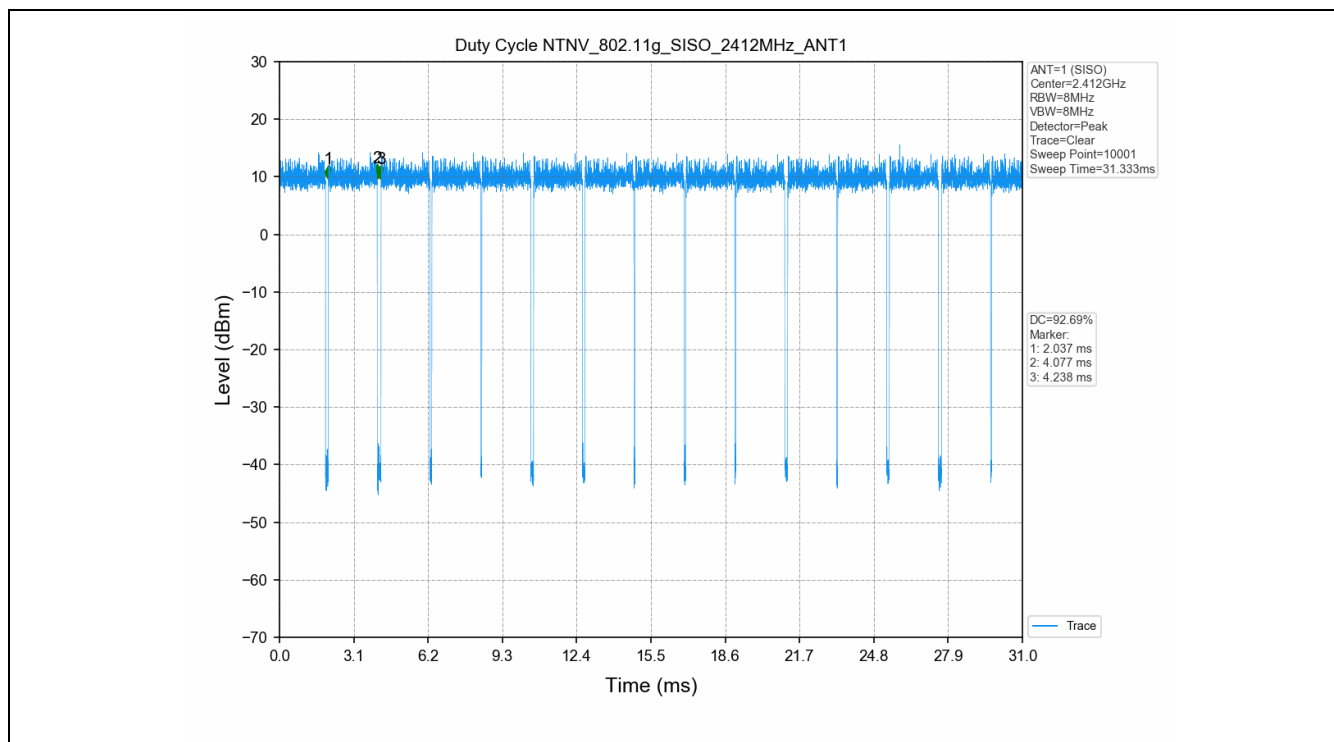
1.1 Test Result

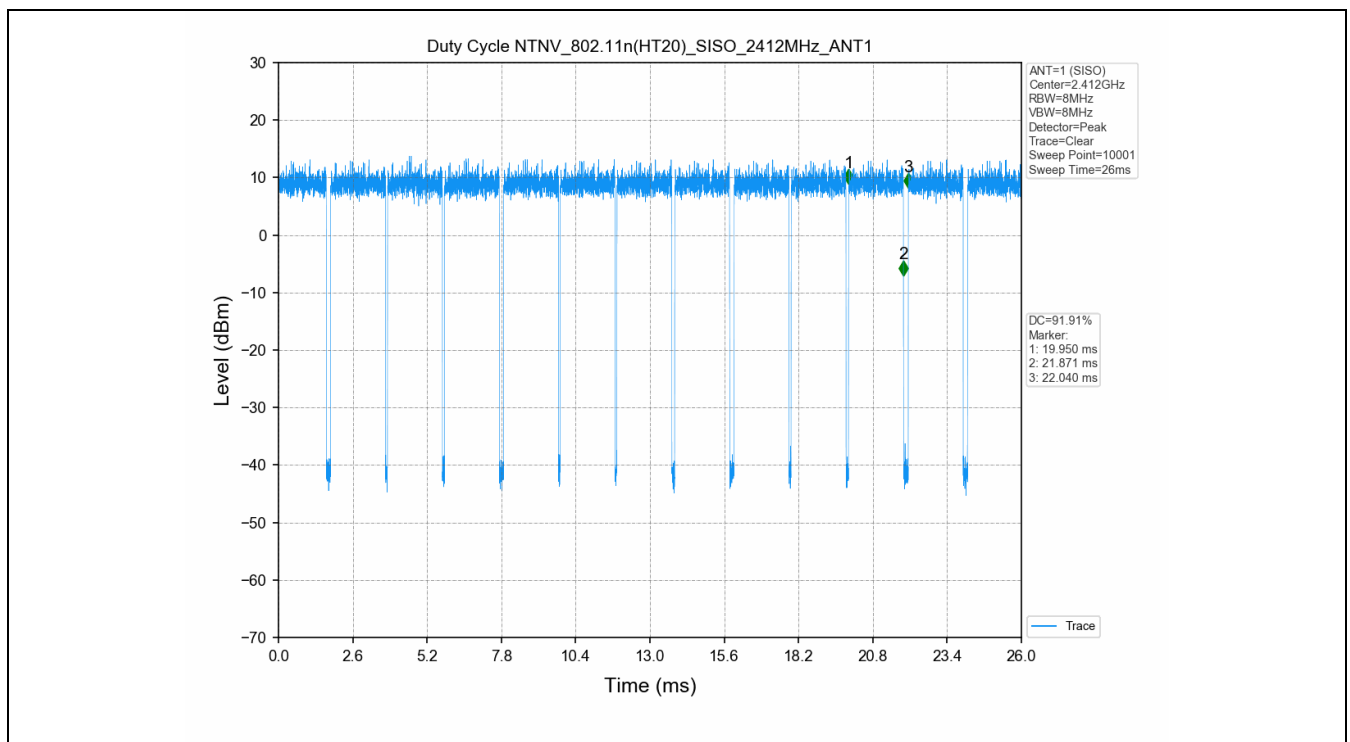
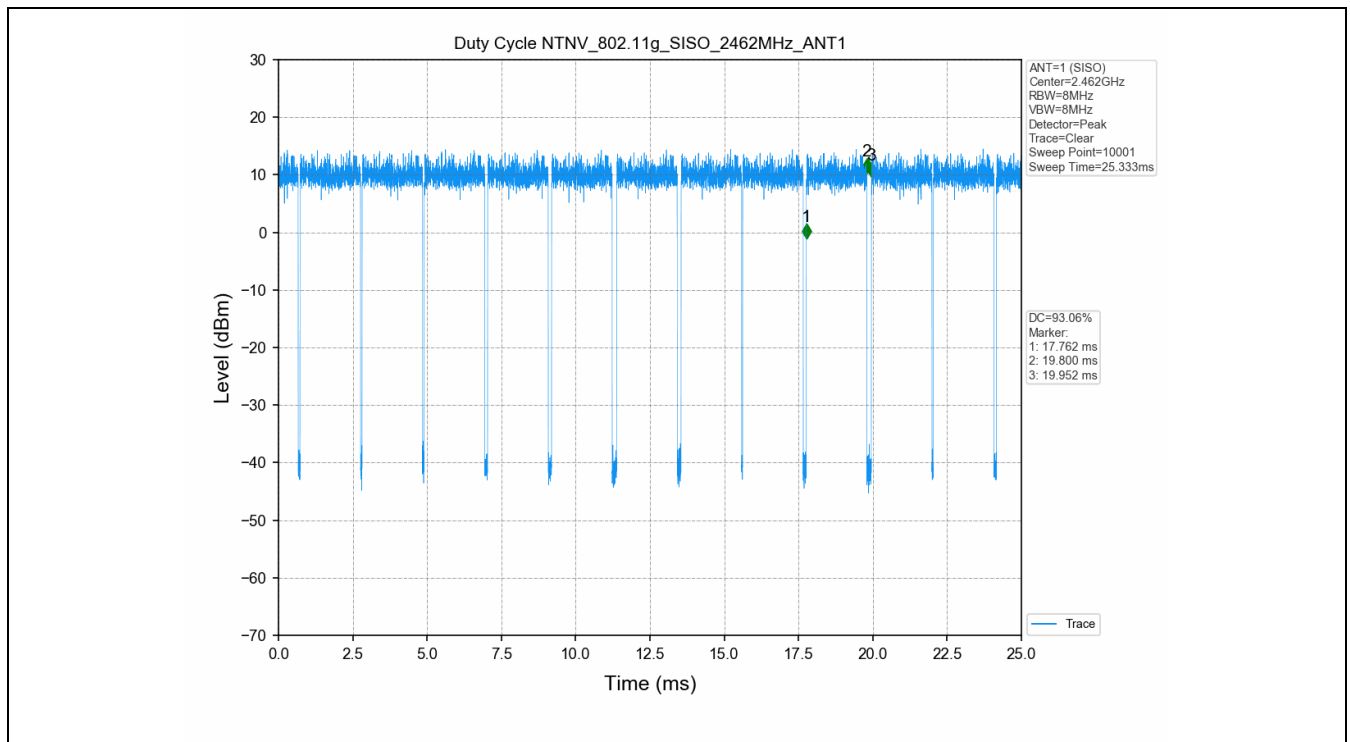
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.410	12.530	99.04	0.04
	2437	SISO	1	12.420	12.580	98.73	0.06
	2462	SISO	1	12.420	12.580	98.73	0.06
802.11g	2412	SISO	1	2.040	2.201	92.69	0.33
	2437	SISO	1	2.064	2.236	92.31	0.35
	2462	SISO	1	2.038	2.190	93.06	0.31
802.11n(HT20)	2412	SISO	1	1.921	2.090	91.91	0.37
	2437	SISO	1	1.920	2.091	91.82	0.37
	2462	SISO	1	1.920	2.074	92.57	0.34
802.11n(HT40)	2422	SISO	1	0.944	1.088	86.76	0.62
	2437	SISO	1	0.944	1.114	84.74	0.72
	2452	SISO	1	0.945	1.115	84.75	0.72

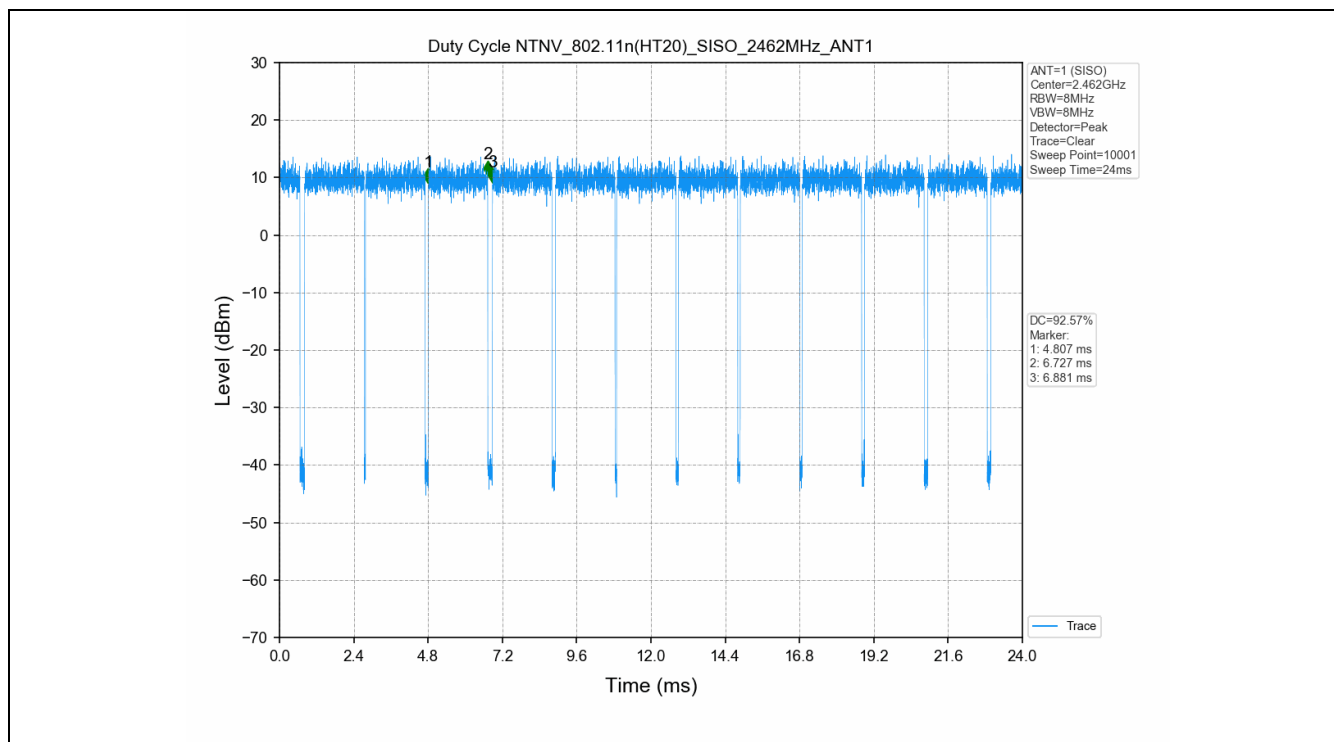
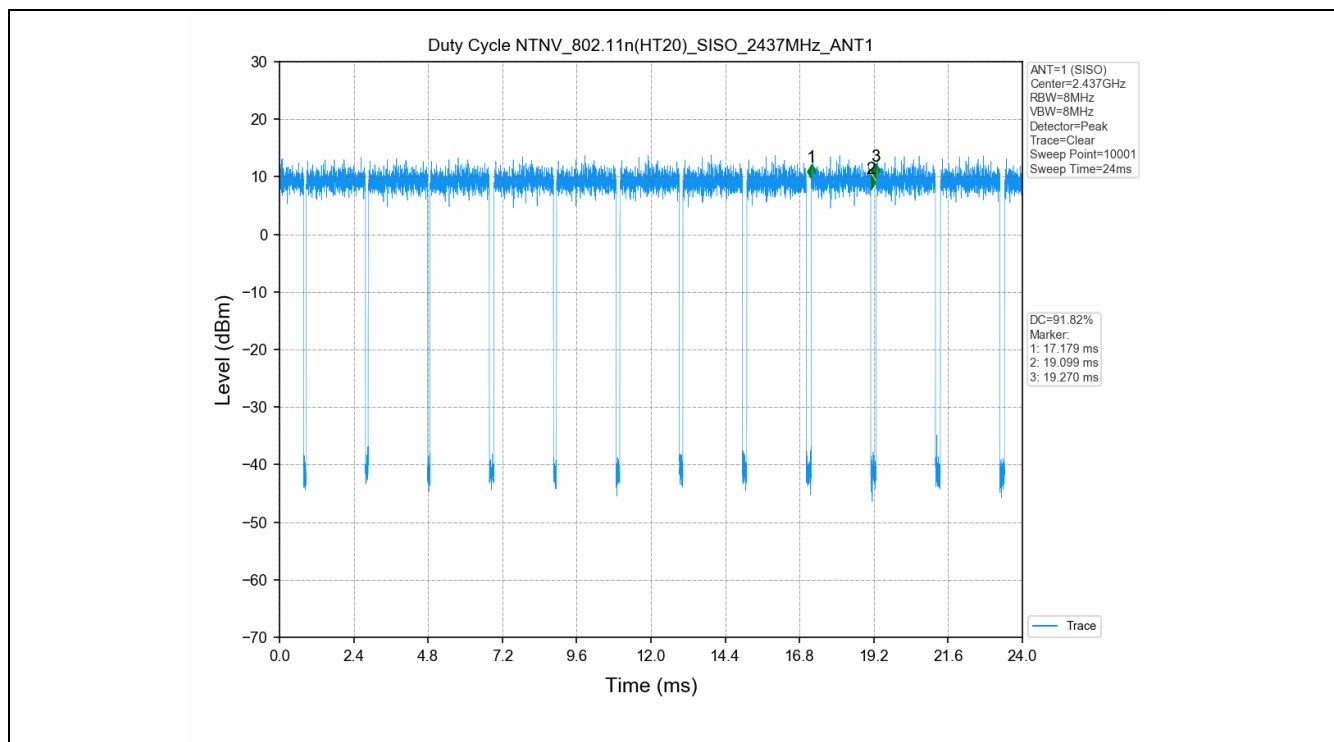
1.2 Test Graph

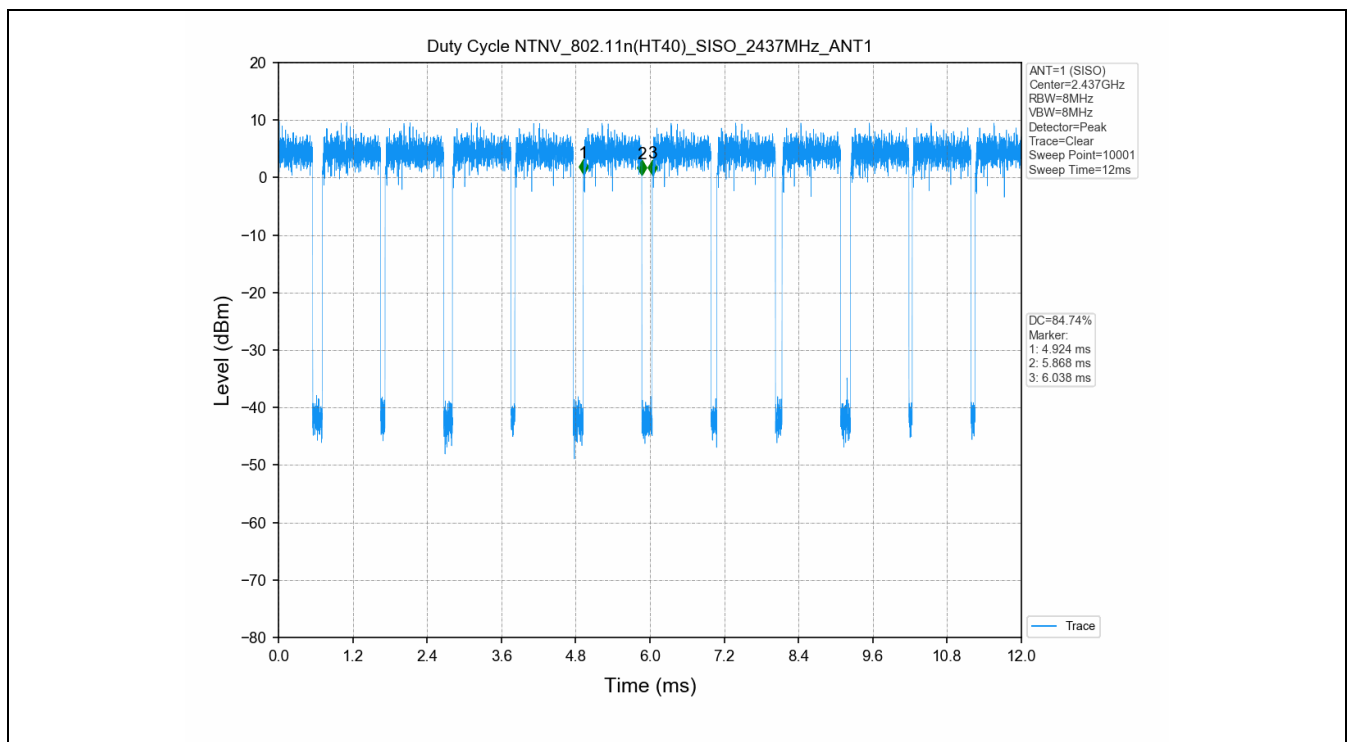
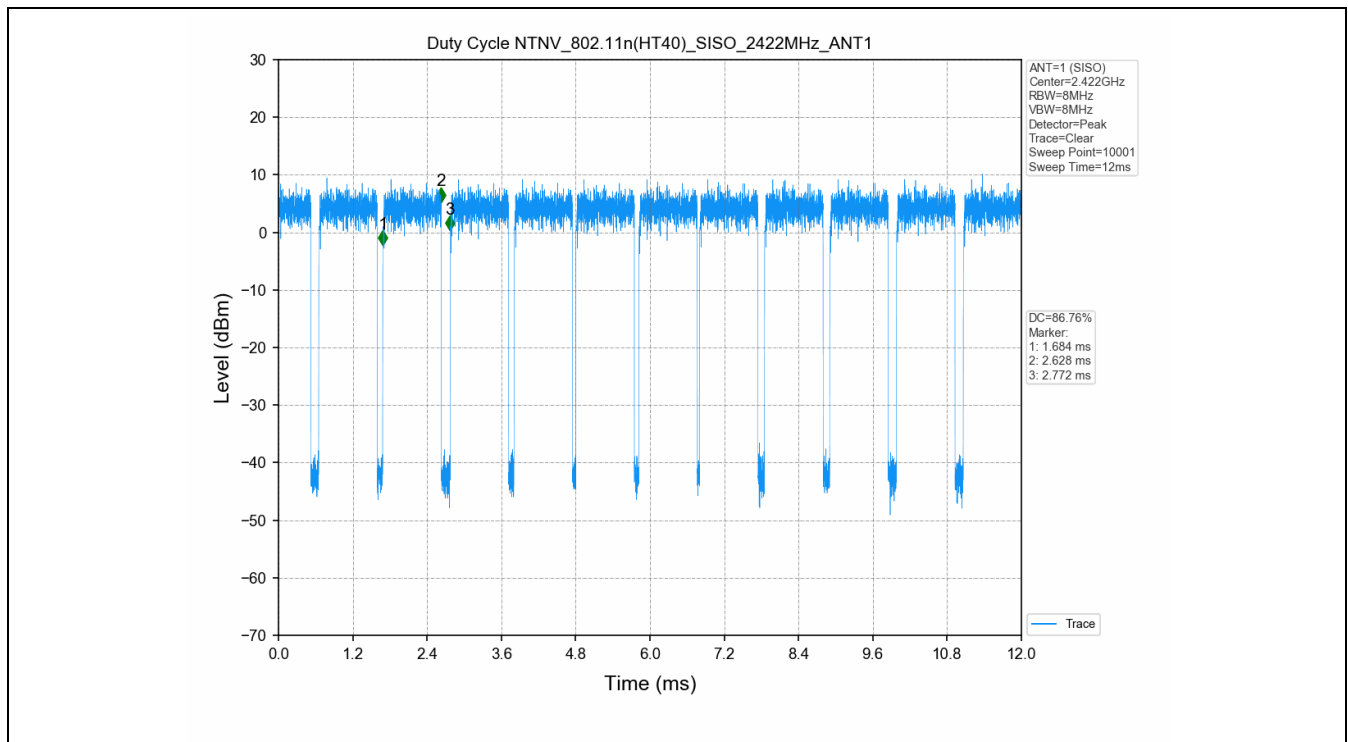


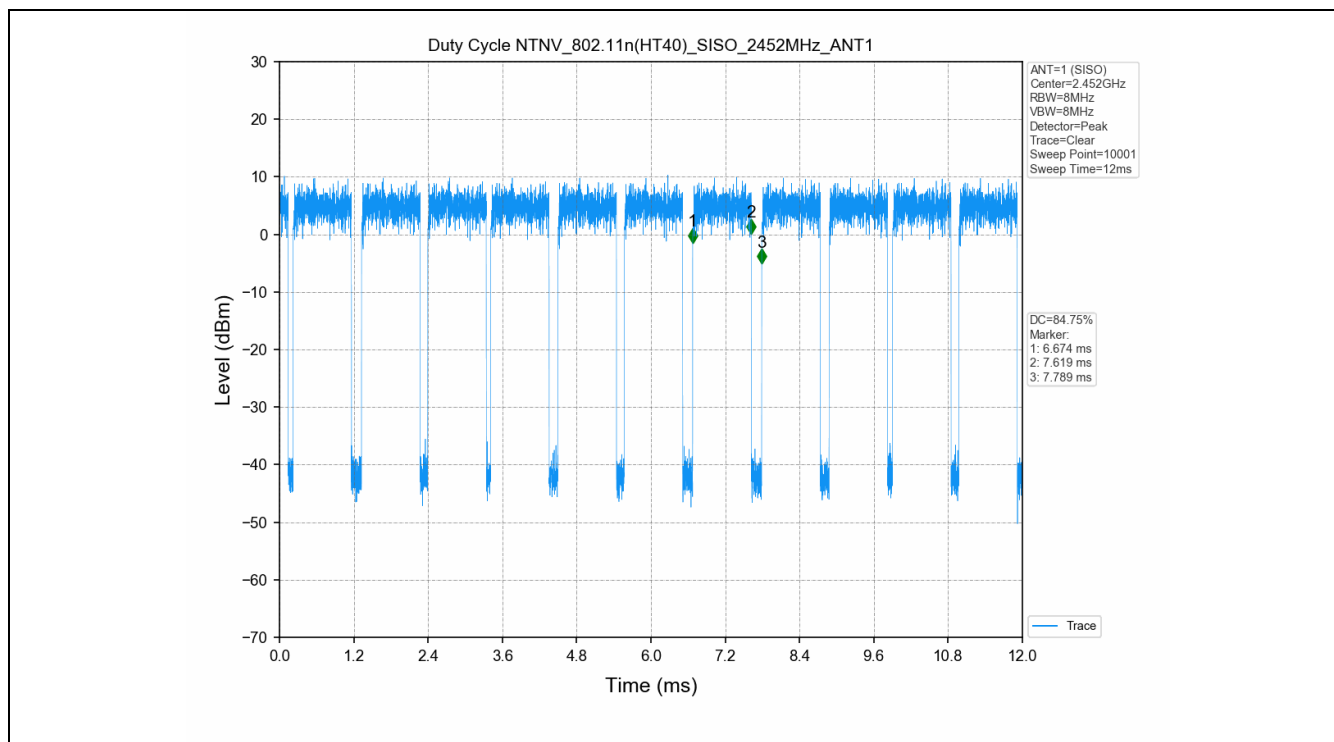












2. Bandwidth

2.1 Test Result

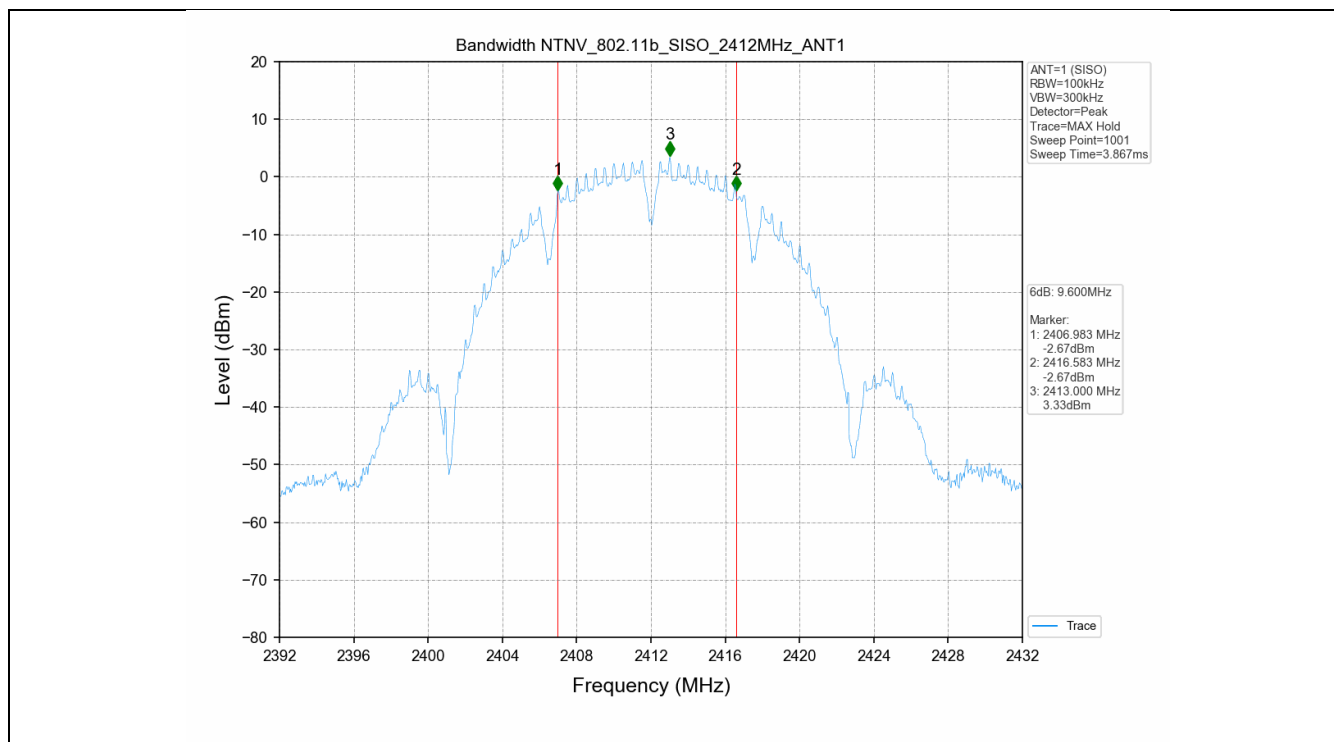
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	9.600	≥ 0.5	PASS
	2437	SISO	1	10.044	≥ 0.5	PASS
	2462	SISO	1	9.596	≥ 0.5	PASS
802.11g	2412	SISO	1	16.405	≥ 0.5	PASS
	2437	SISO	1	16.460	≥ 0.5	PASS
	2462	SISO	1	16.401	≥ 0.5	PASS
802.11n(HT20)	2412	SISO	1	17.616	≥ 0.5	PASS
	2437	SISO	1	17.641	≥ 0.5	PASS
	2462	SISO	1	17.609	≥ 0.5	PASS
802.11n(HT40)	2422	SISO	1	35.270	≥ 0.5	PASS
	2437	SISO	1	35.746	≥ 0.5	PASS
	2452	SISO	1	35.252	≥ 0.5	PASS

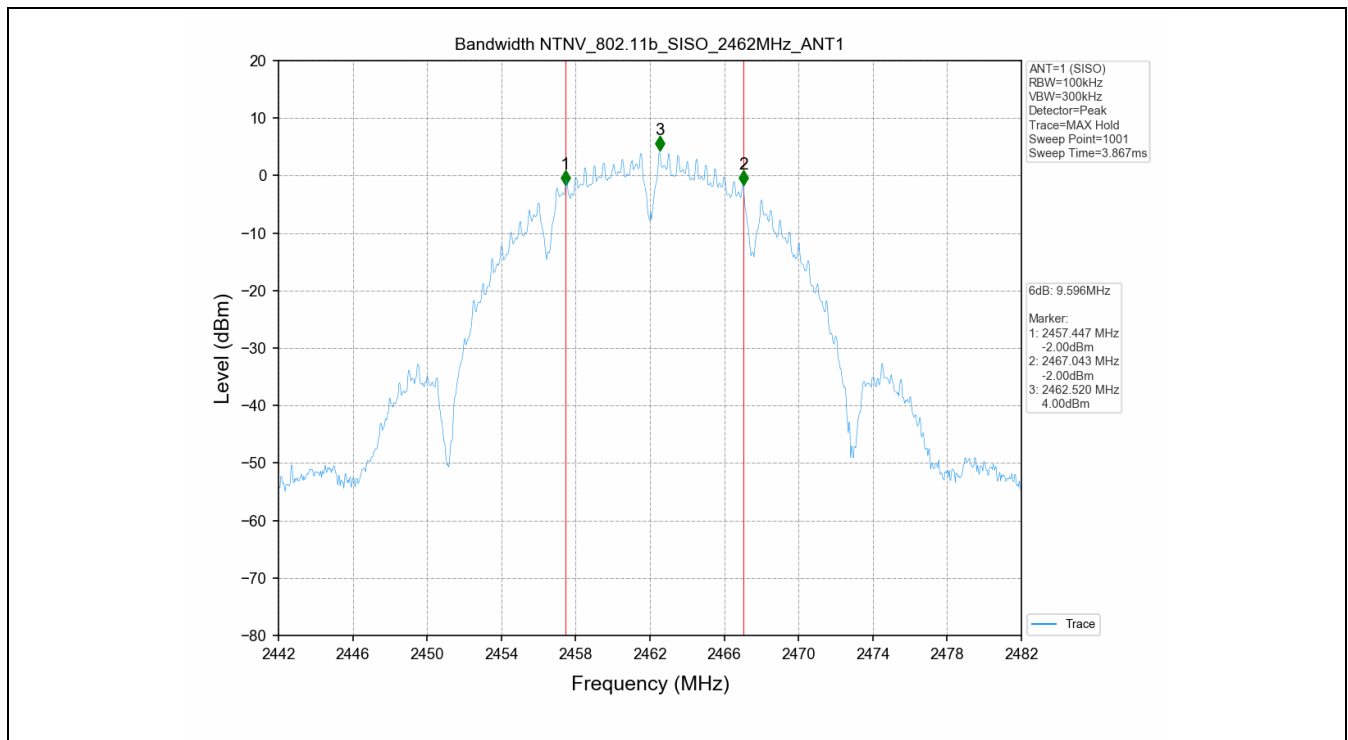
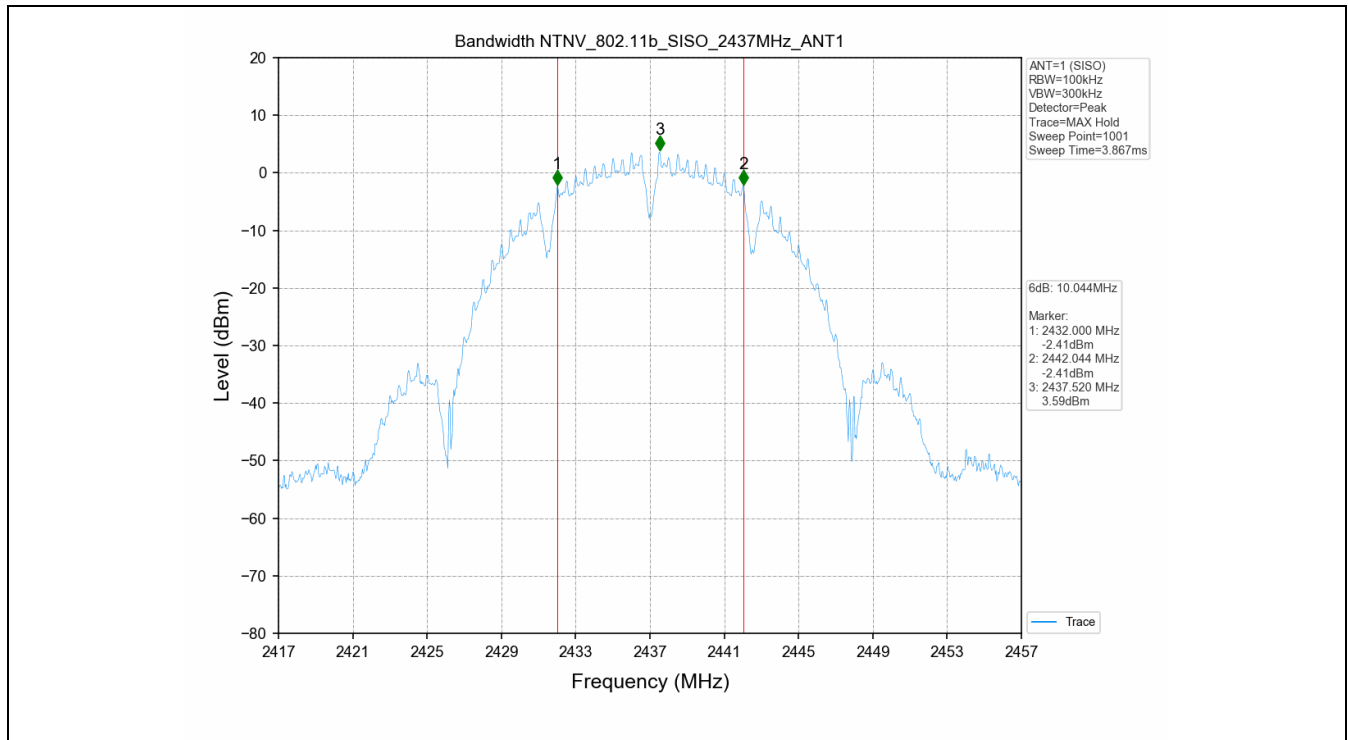
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.049	Only for Report Use
	2437	SISO	1	15.049	Only for Report Use
	2462	SISO	1	15.043	Only for Report Use
802.11g	2412	SISO	1	16.992	Only for Report Use
	2437	SISO	1	17.103	Only for Report Use

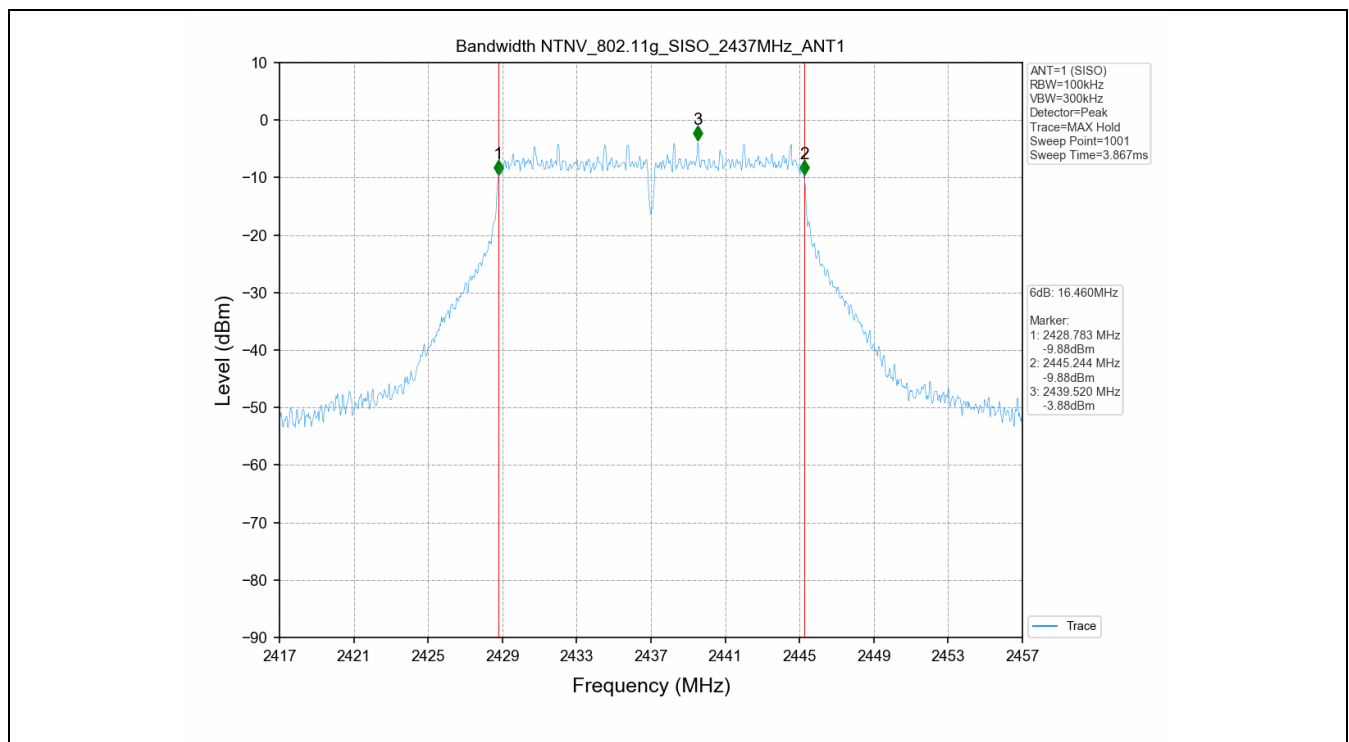
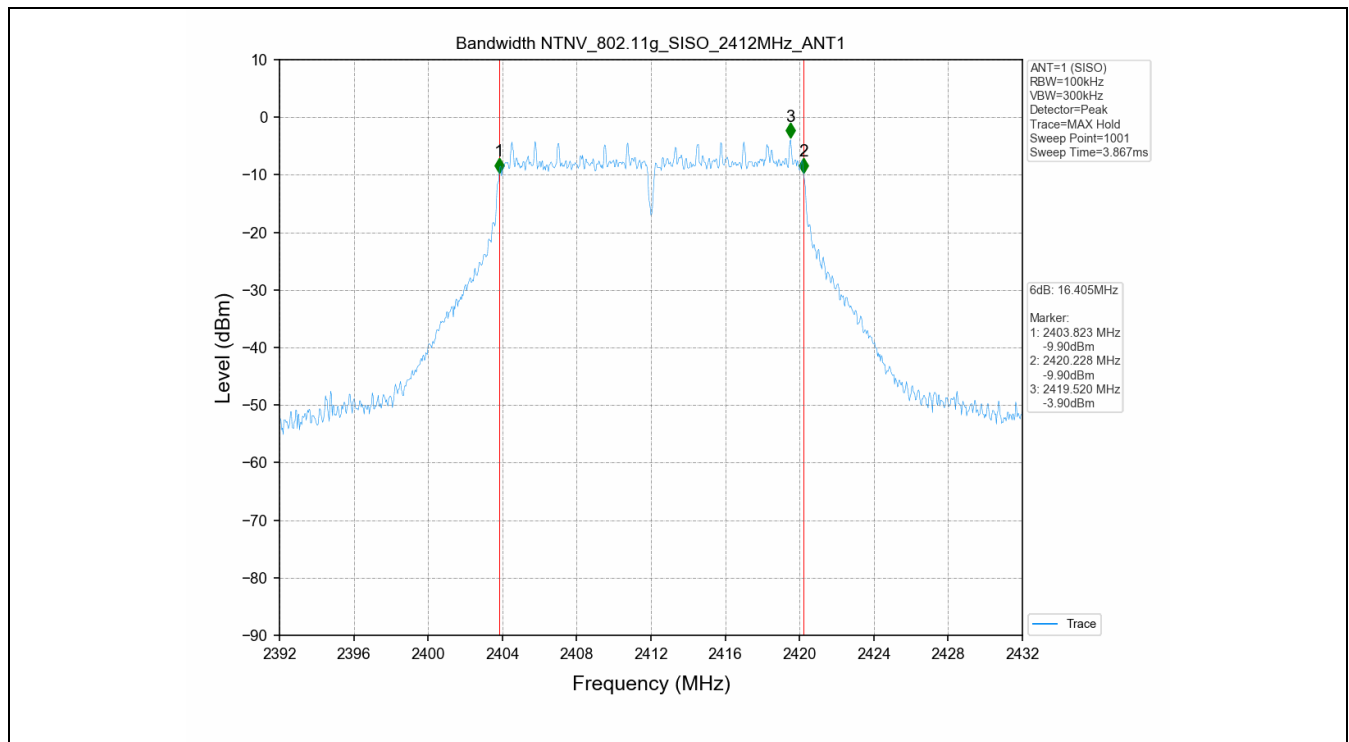


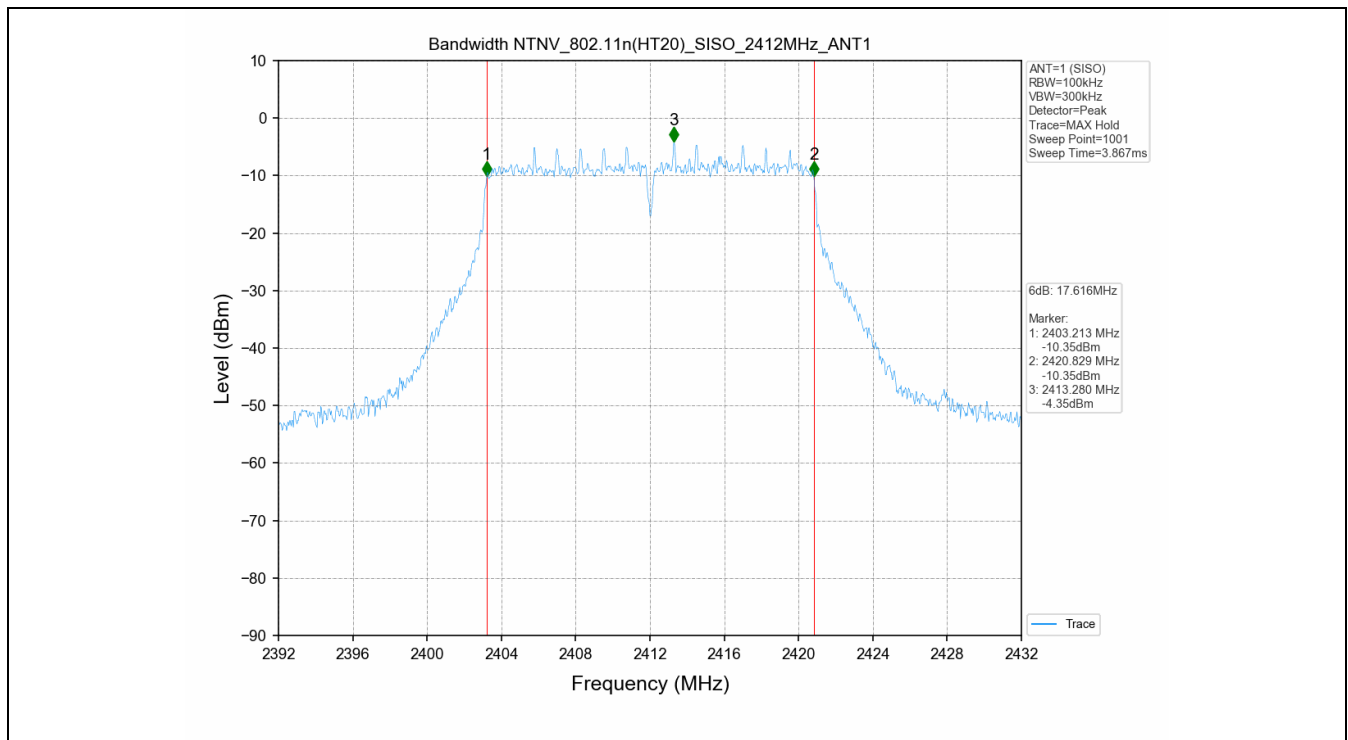
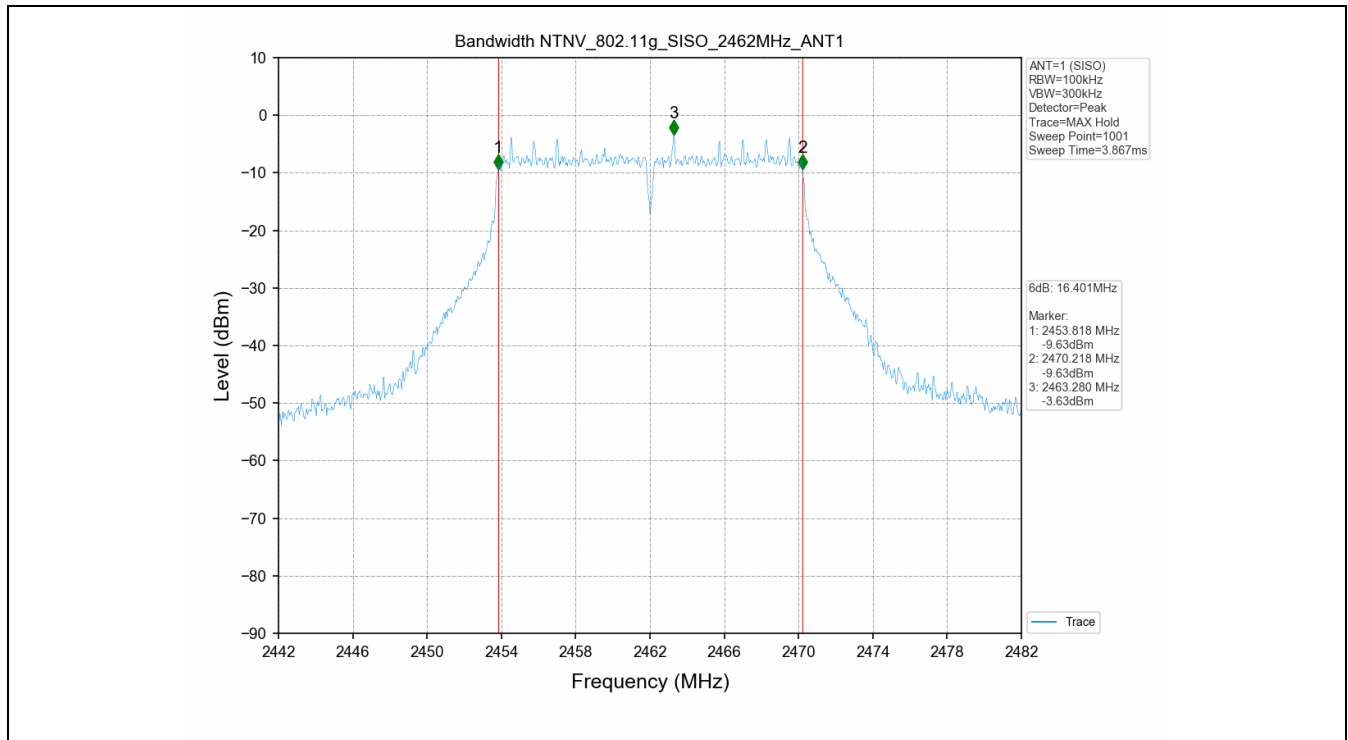
	2462	SISO	1	16.915	Only for Report Use
802.11n(HT20)	2412	SISO	1	18.131	Only for Report Use
	2437	SISO	1	18.104	Only for Report Use
	2462	SISO	1	18.029	Only for Report Use
	2422	SISO	1	36.502	Only for Report Use
802.11n(HT40)	2437	SISO	1	36.532	Only for Report Use
	2452	SISO	1	36.510	Only for Report Use

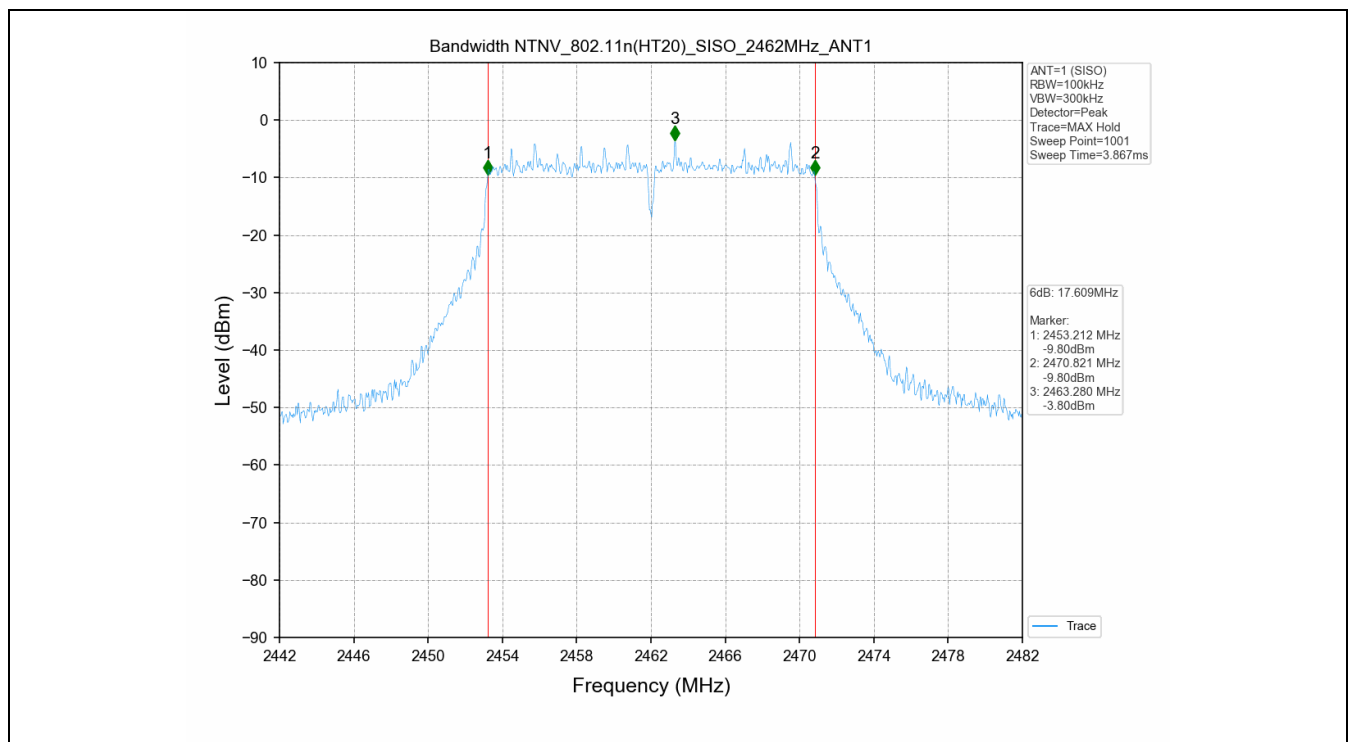
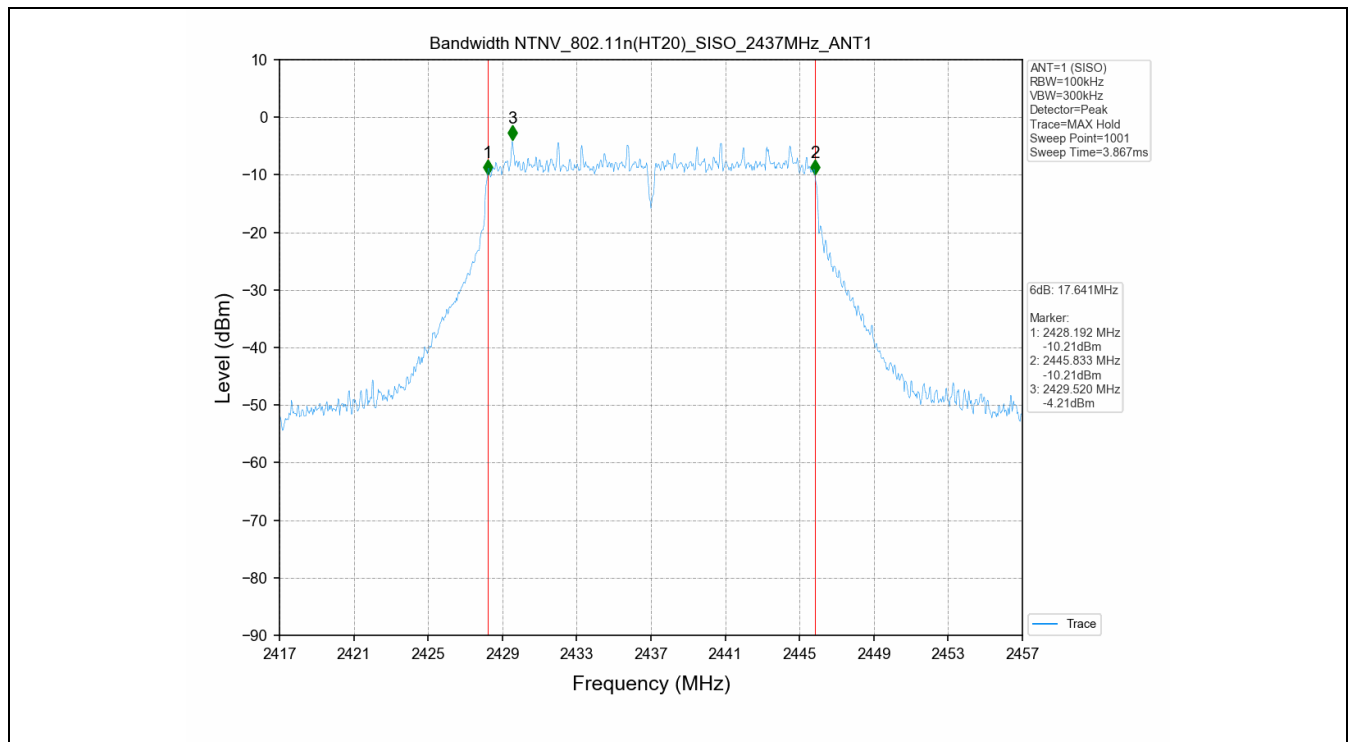
2.2 Test Graph - 6dB Bandwidth

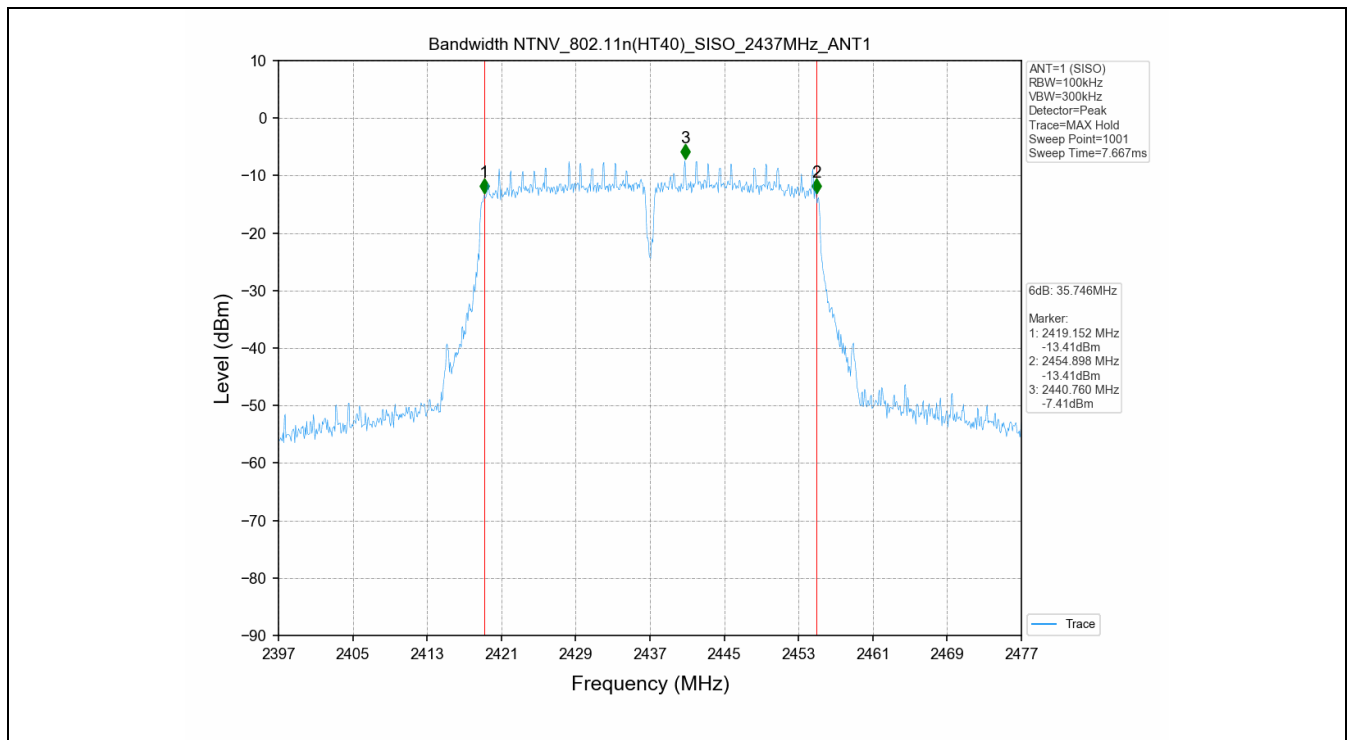
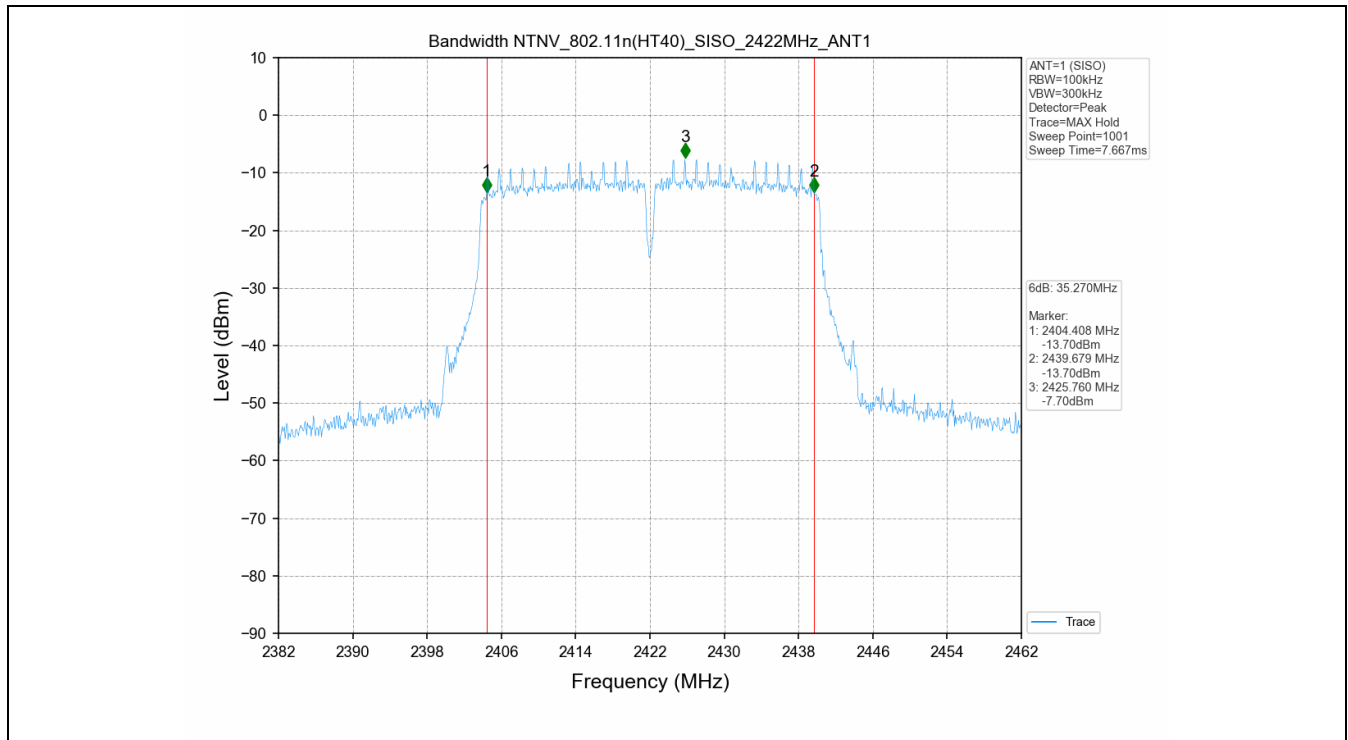


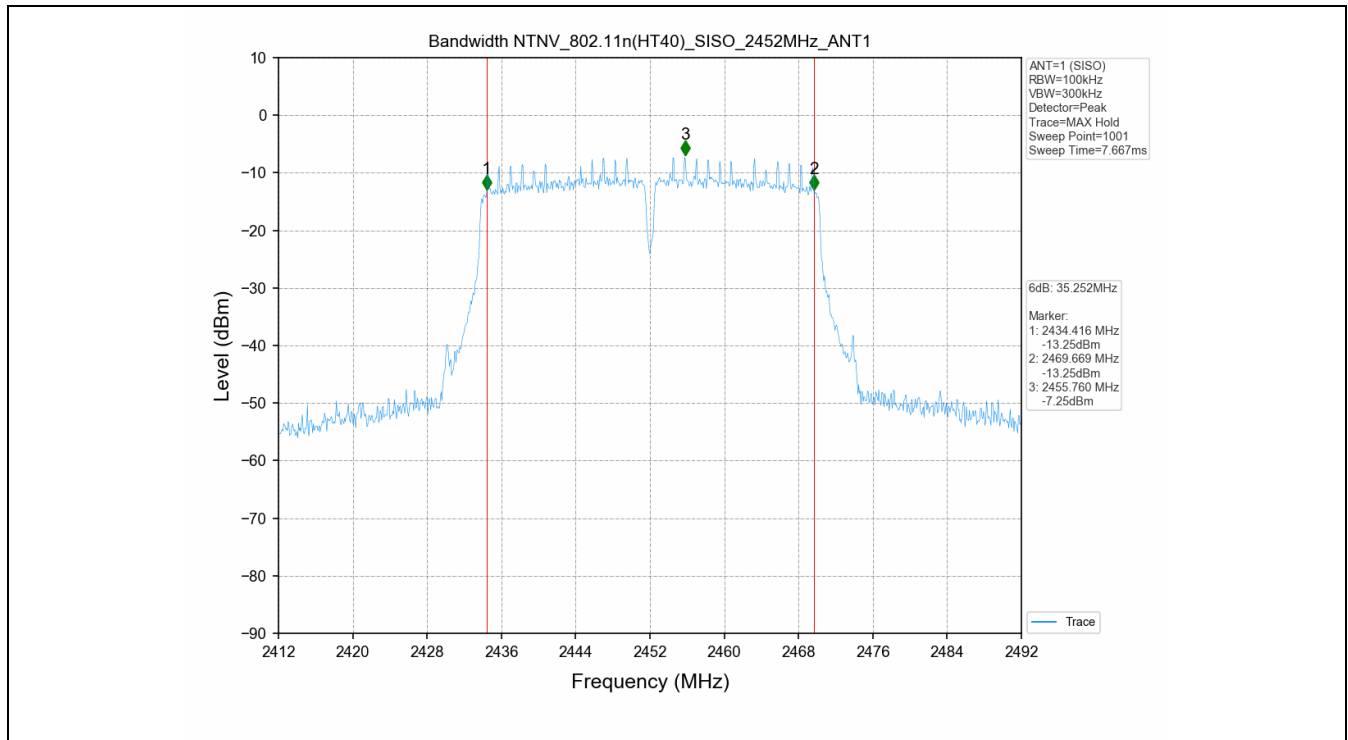




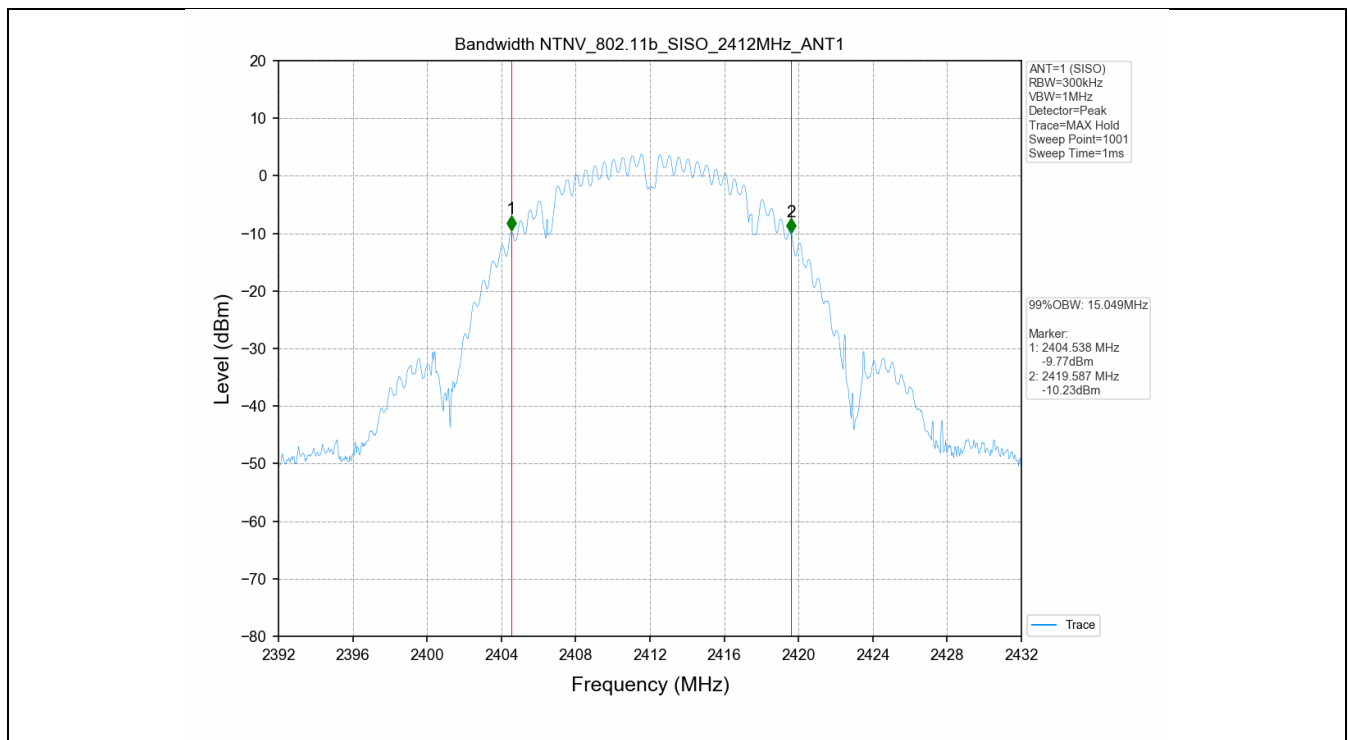


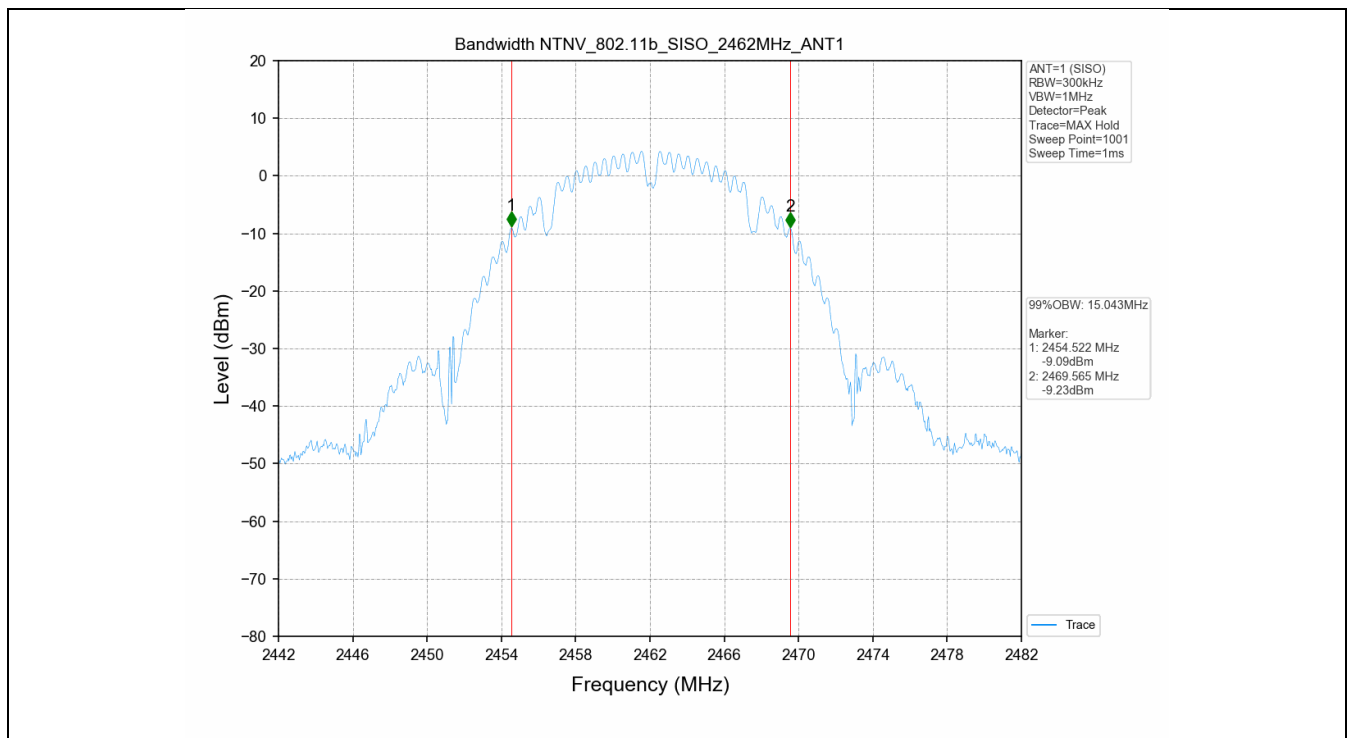
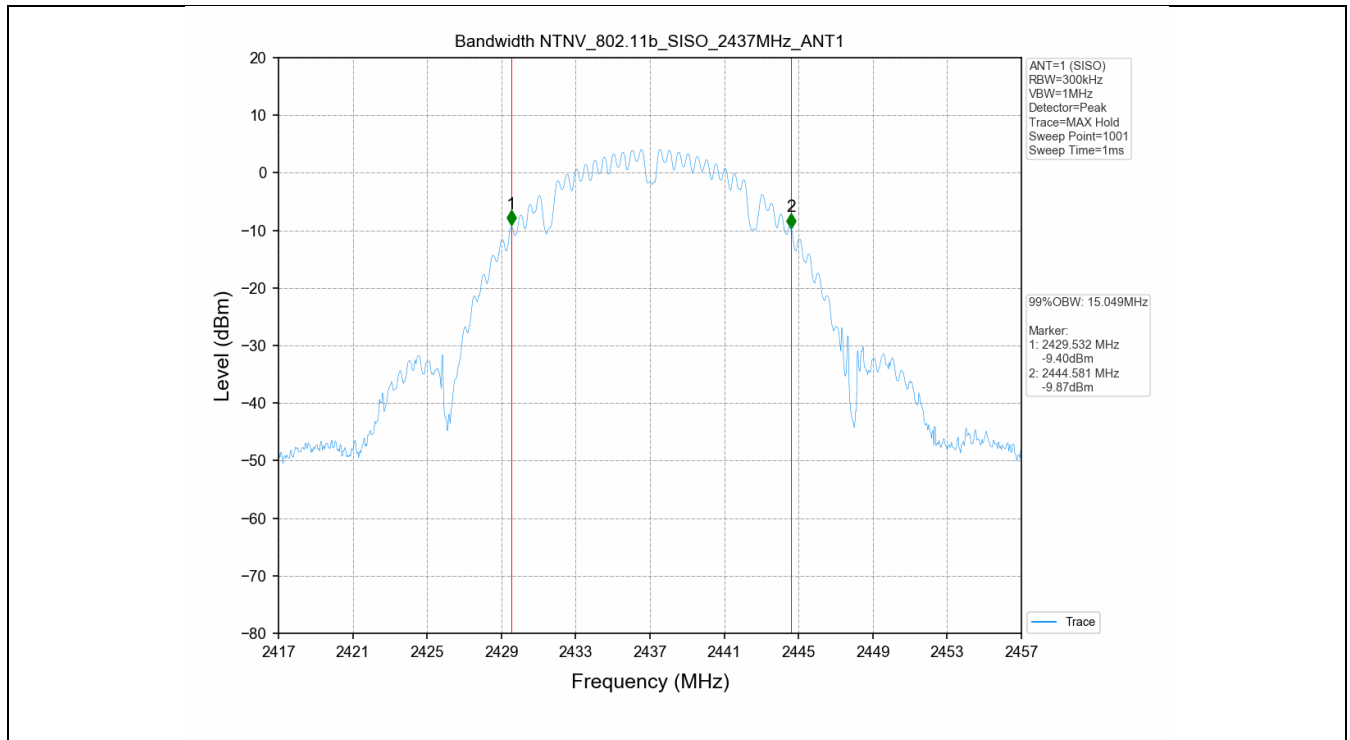


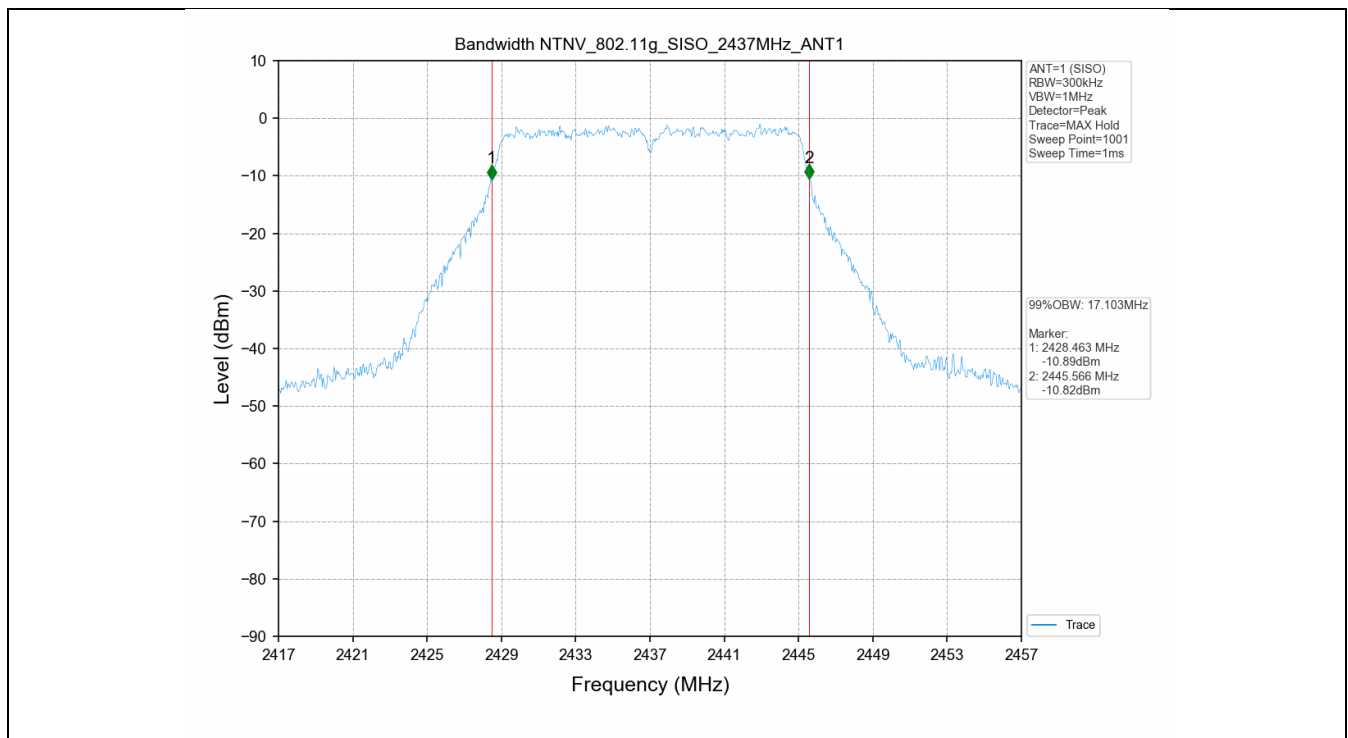
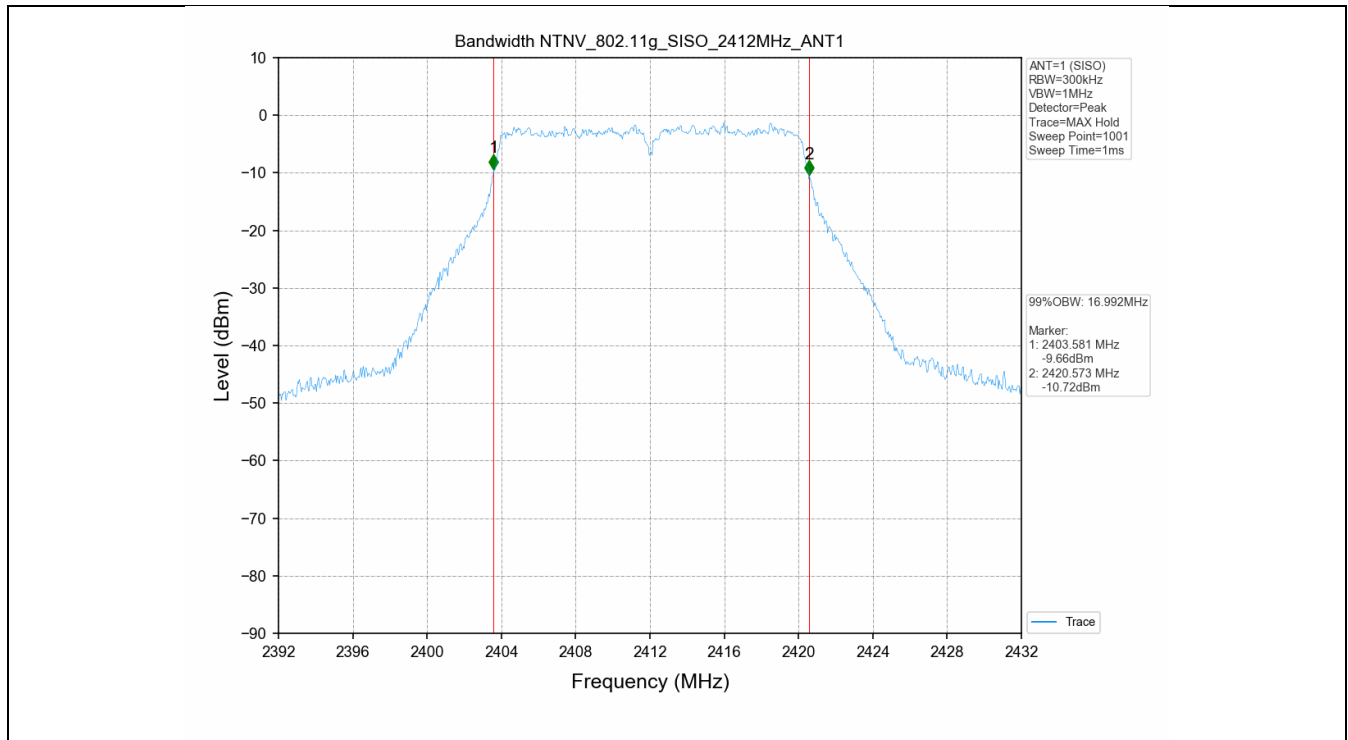


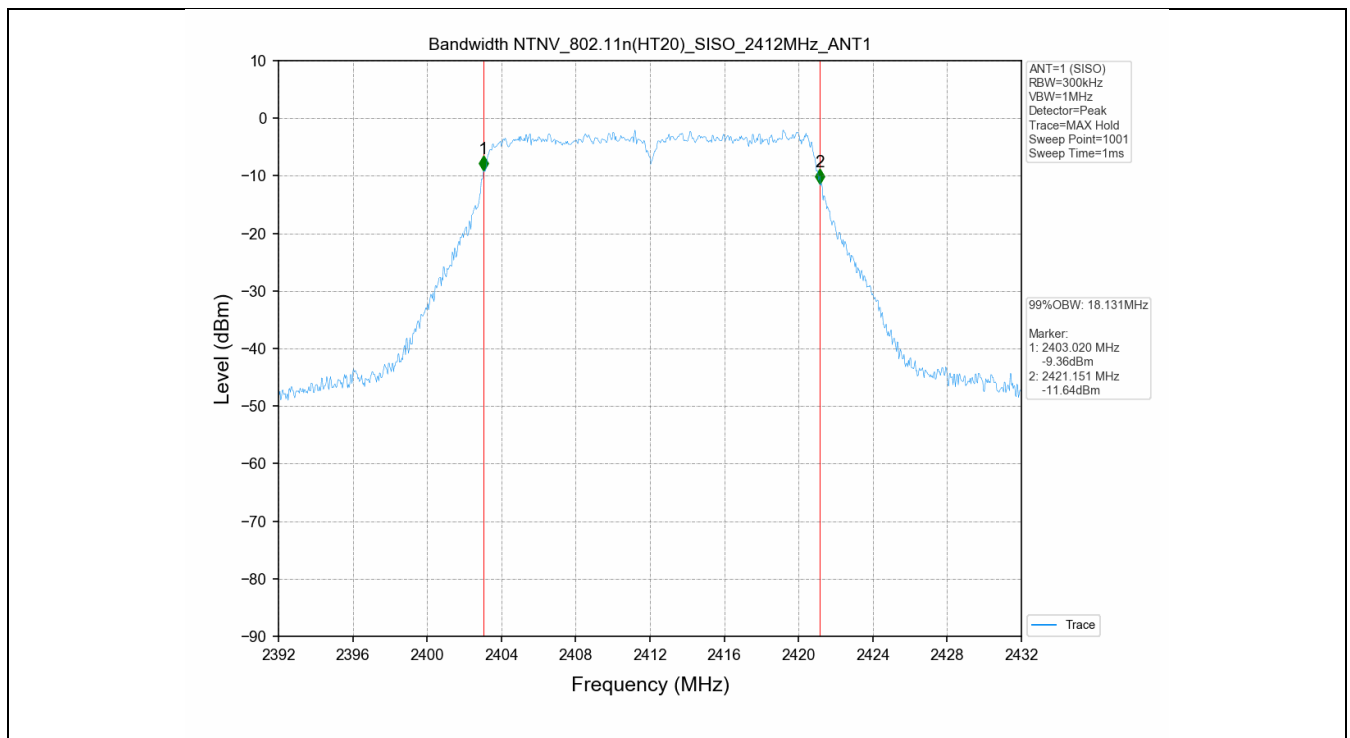
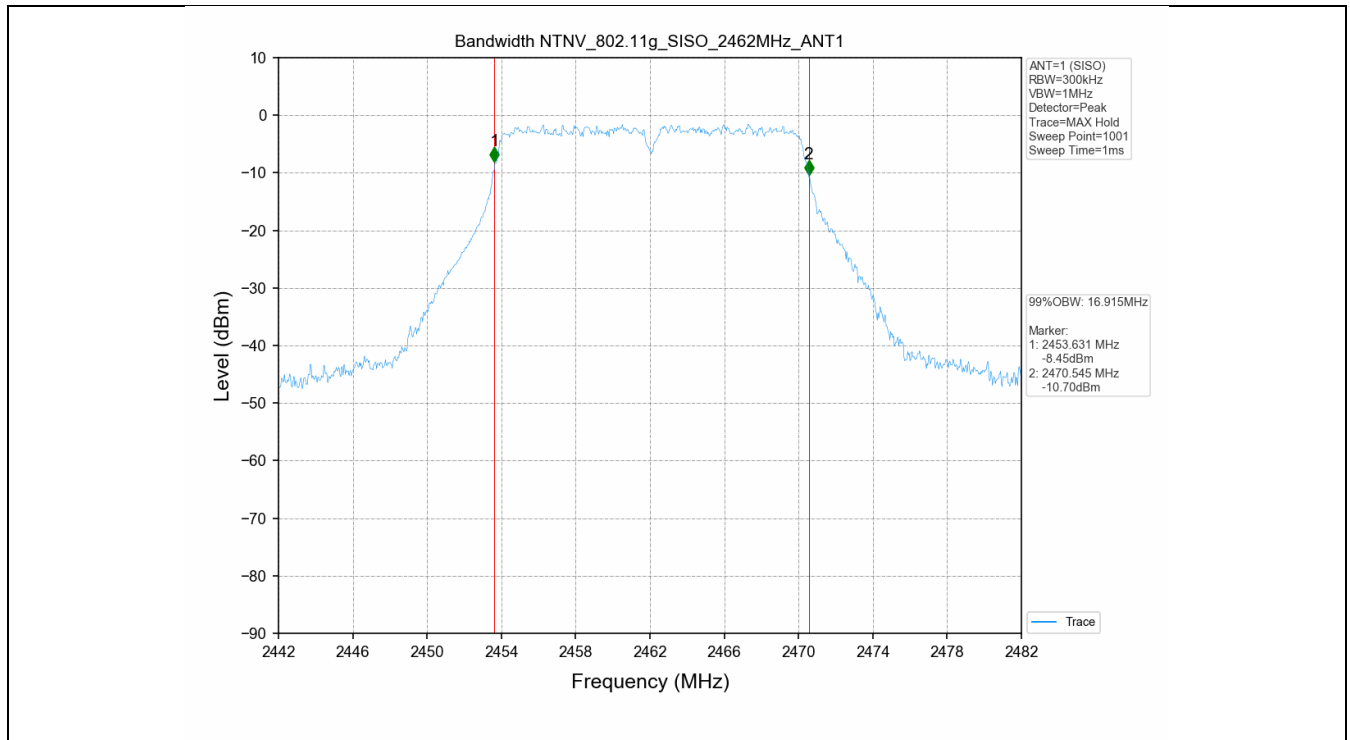


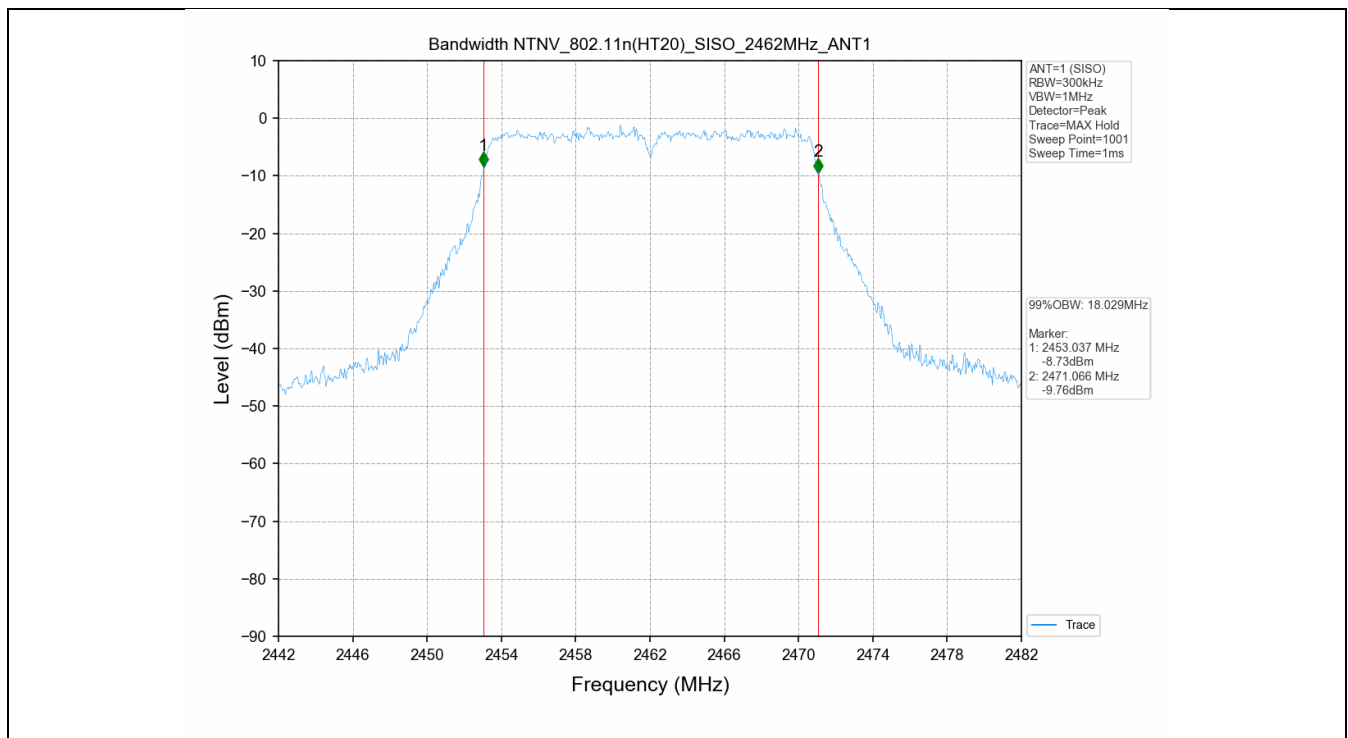
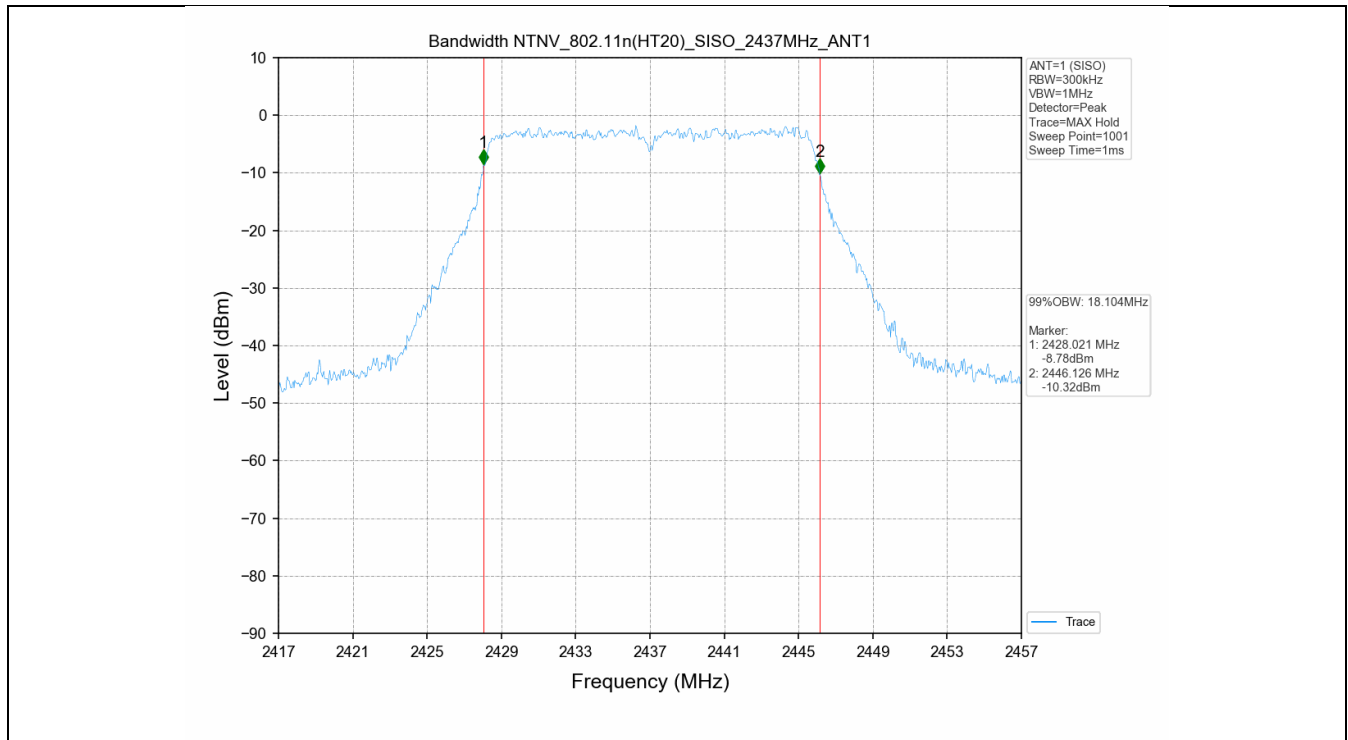
2.3 Test Graph - 99% Occupied Bandwidth

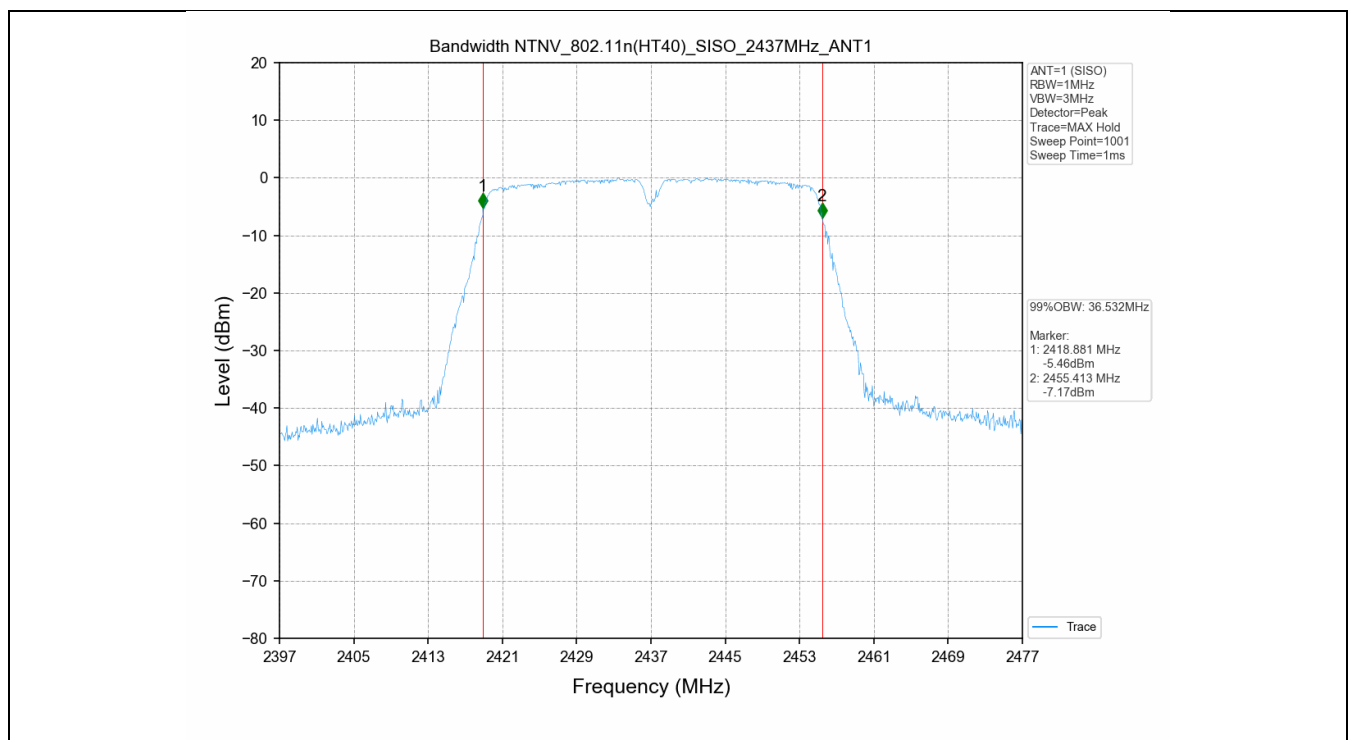
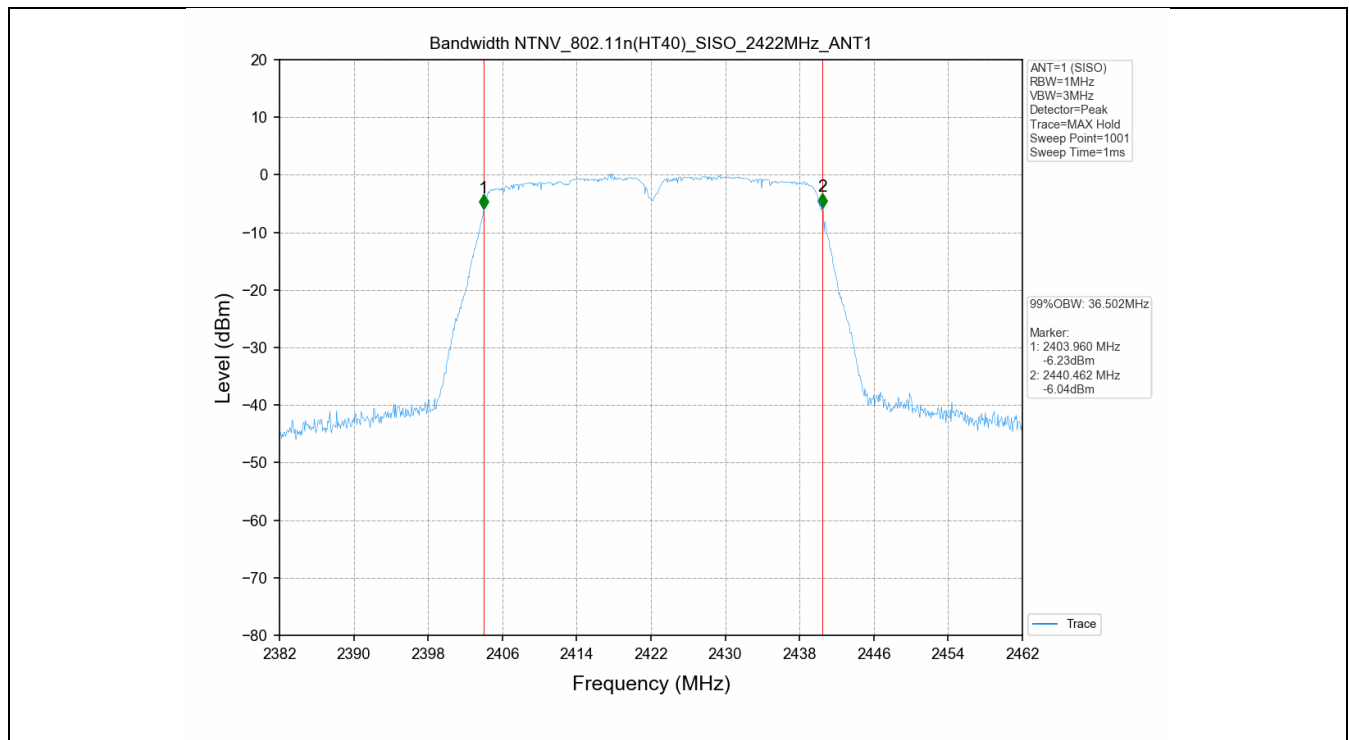


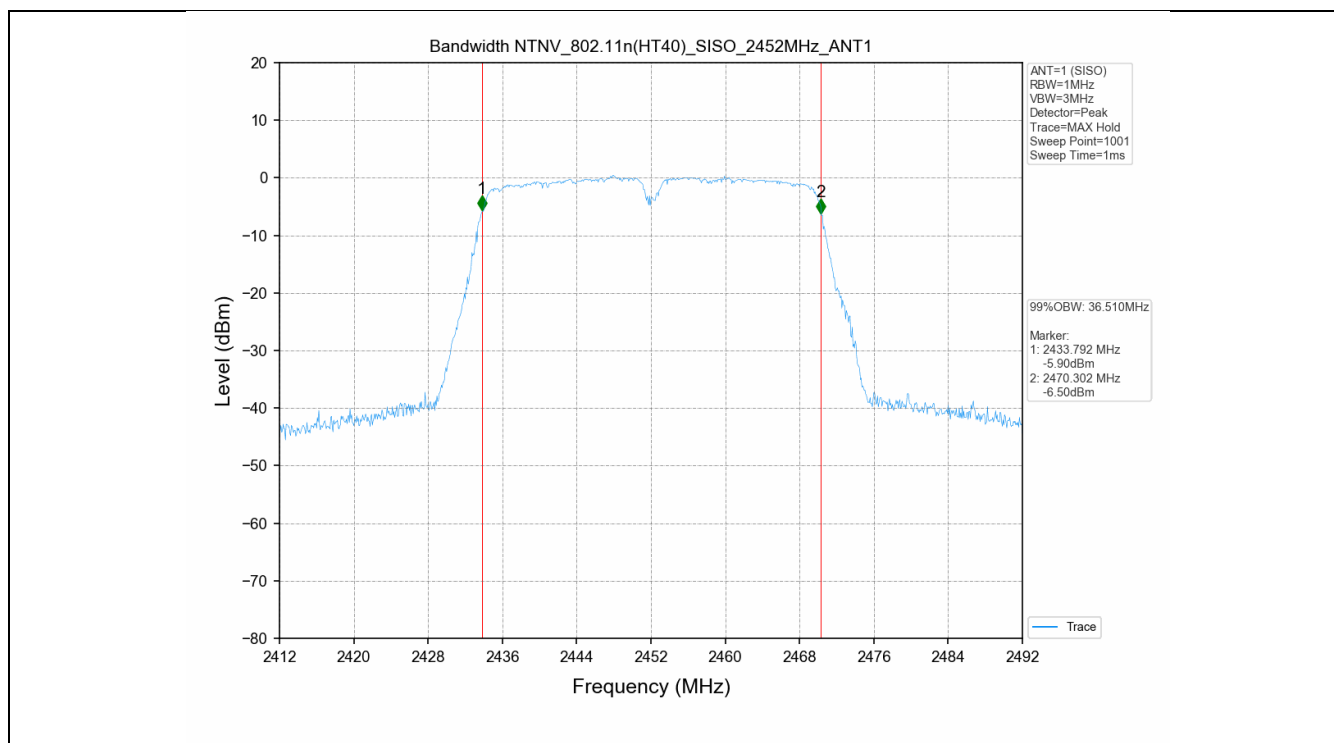










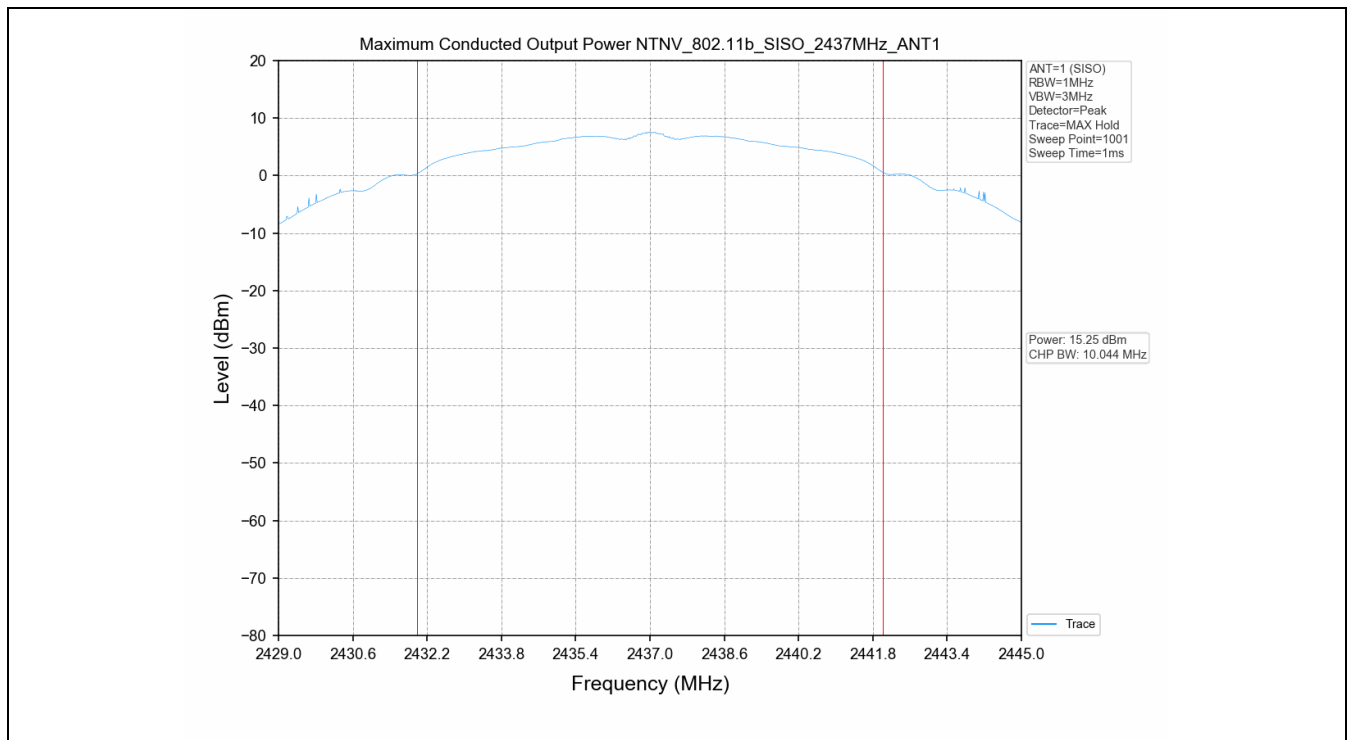
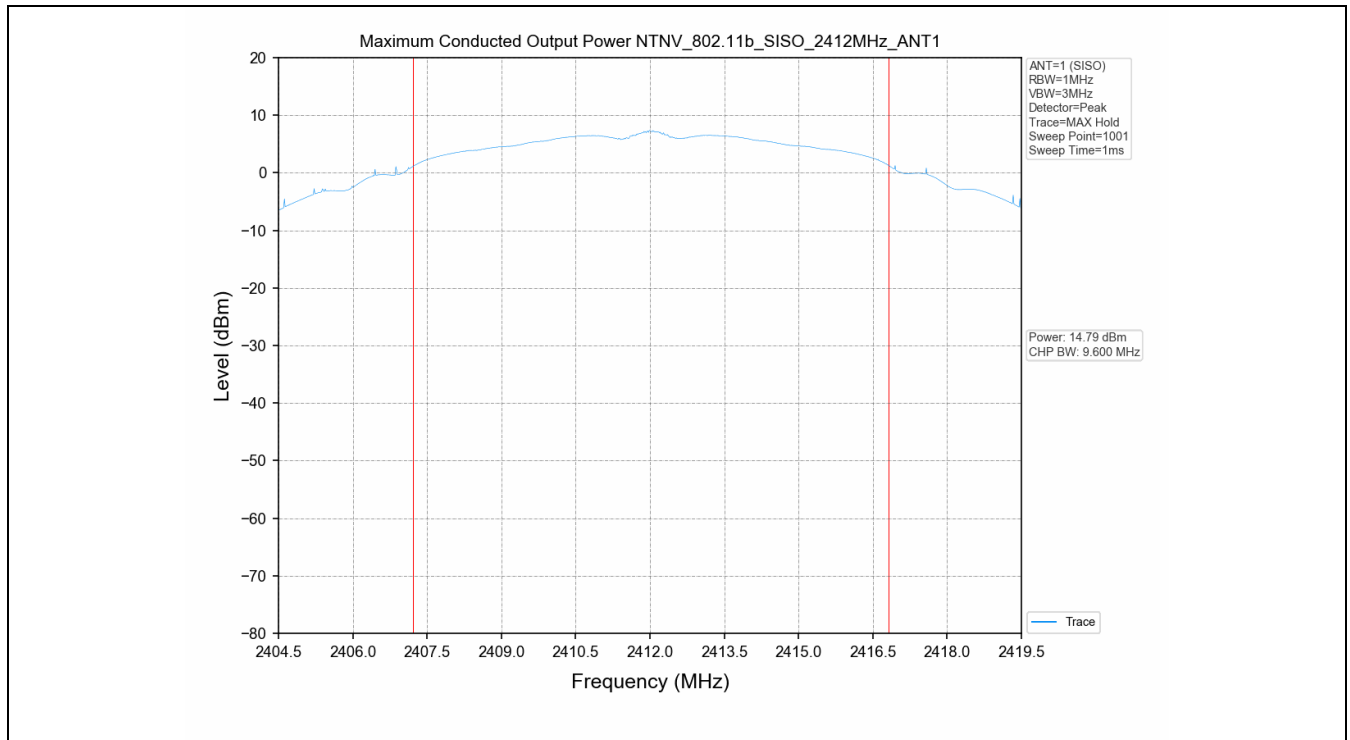


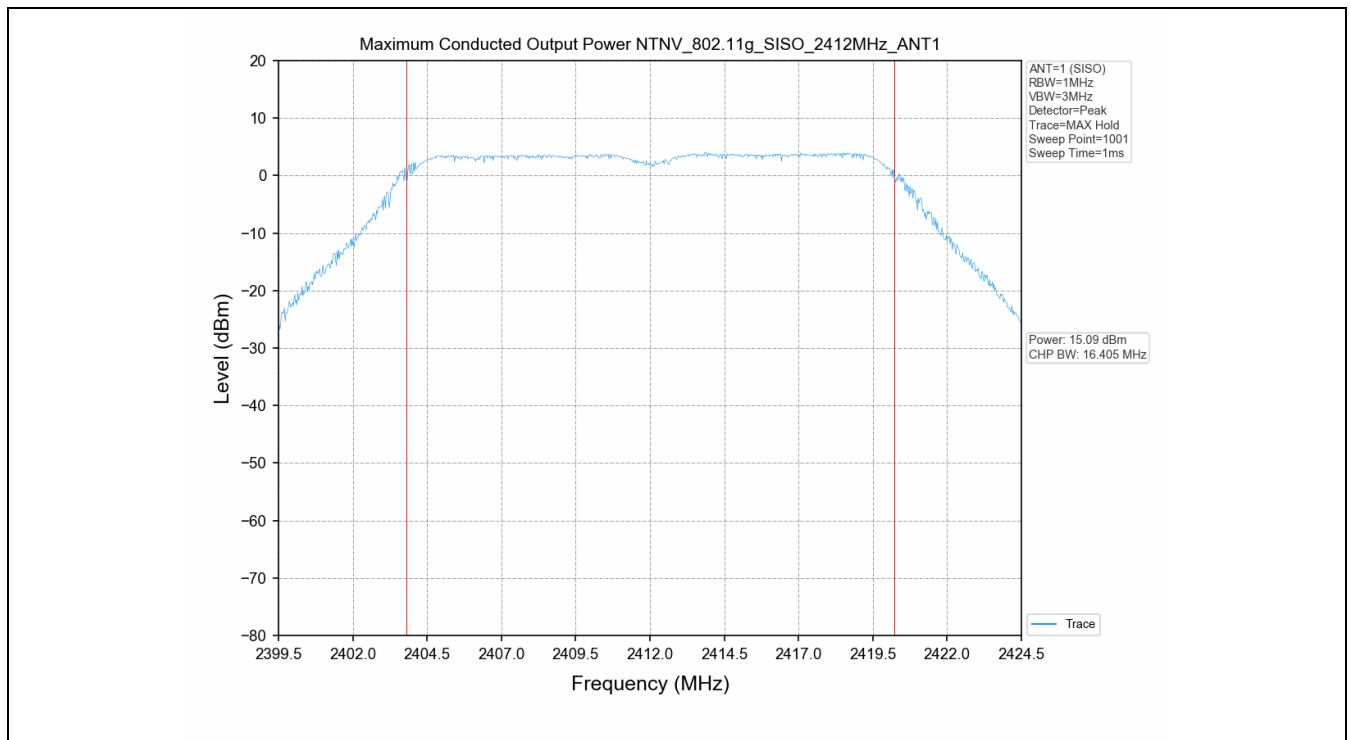
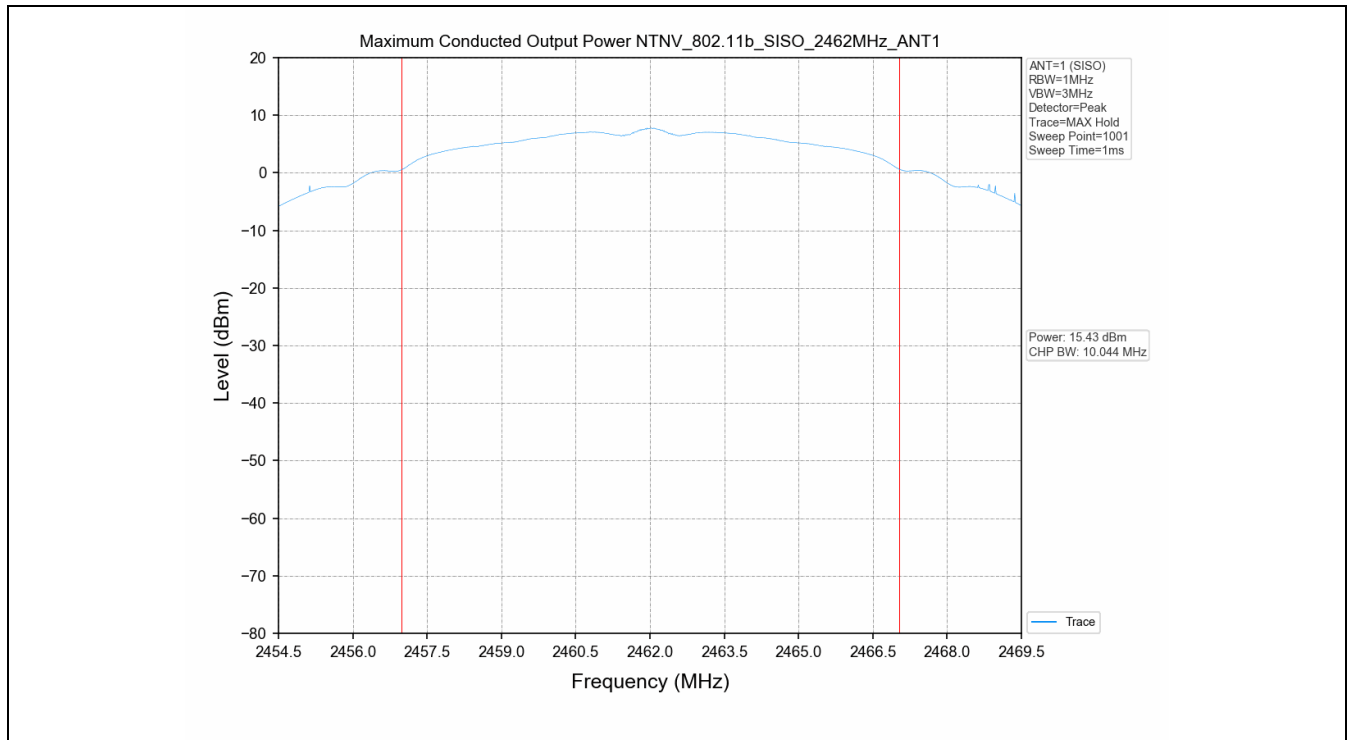
3. Maximum Conducted Output Power

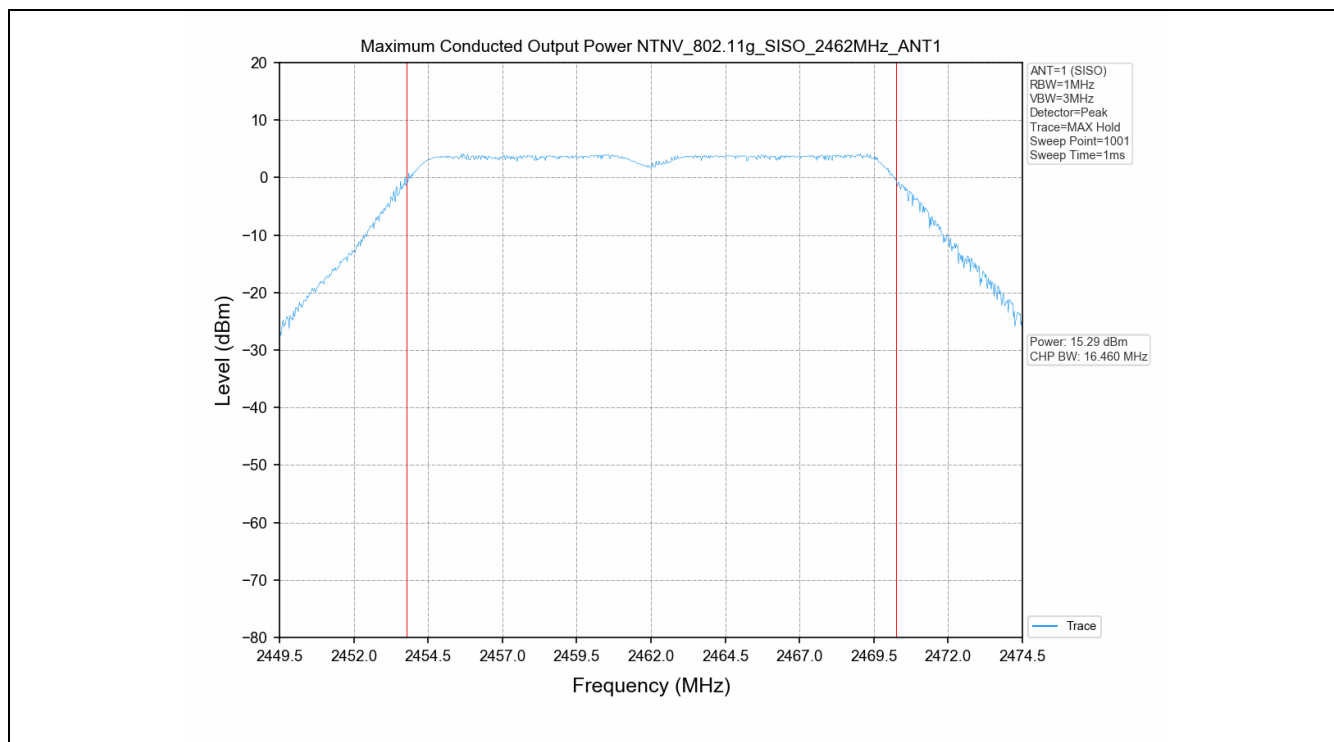
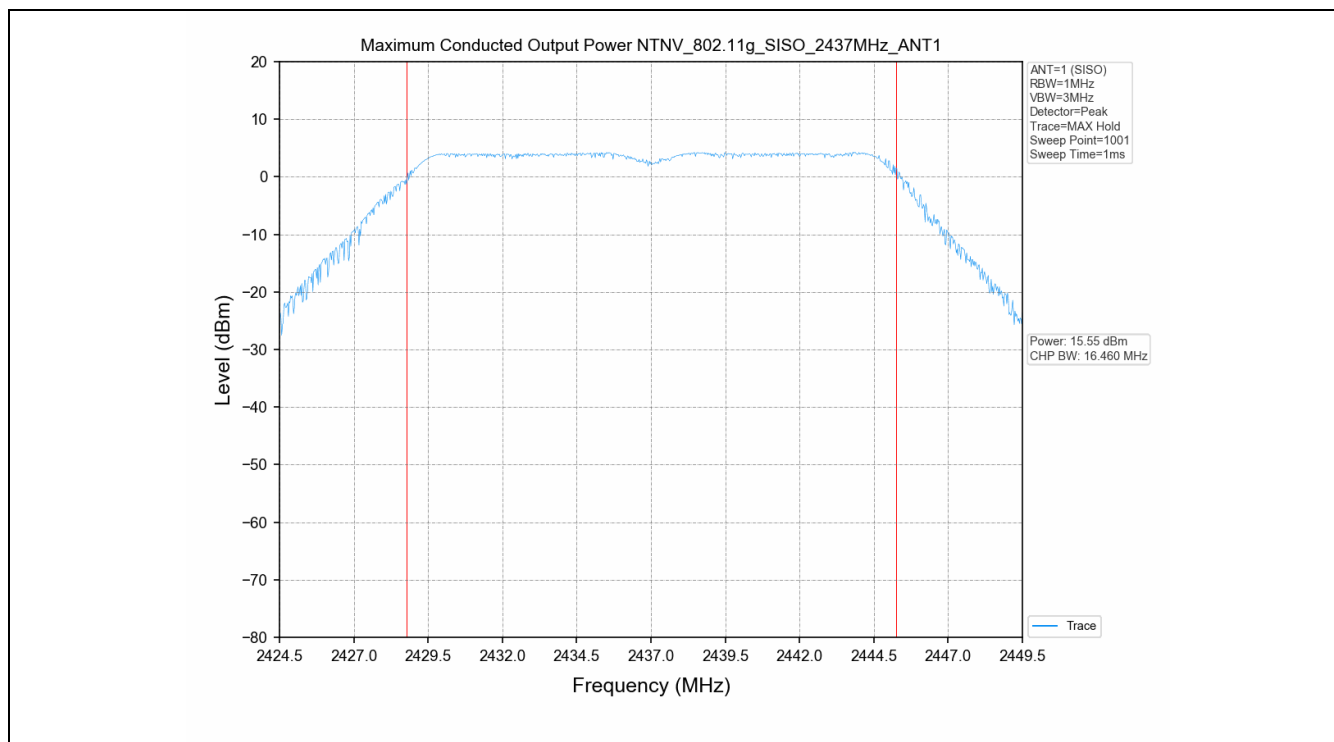
3.1 Test Result

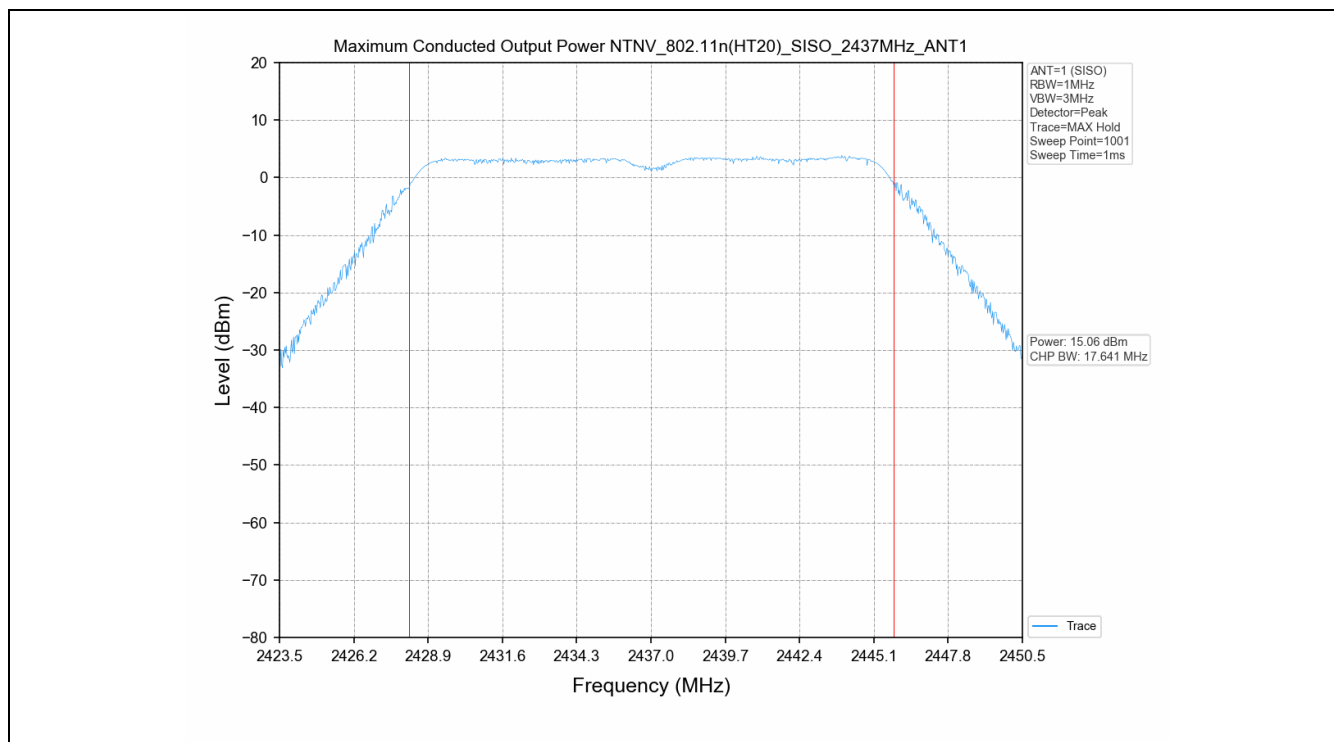
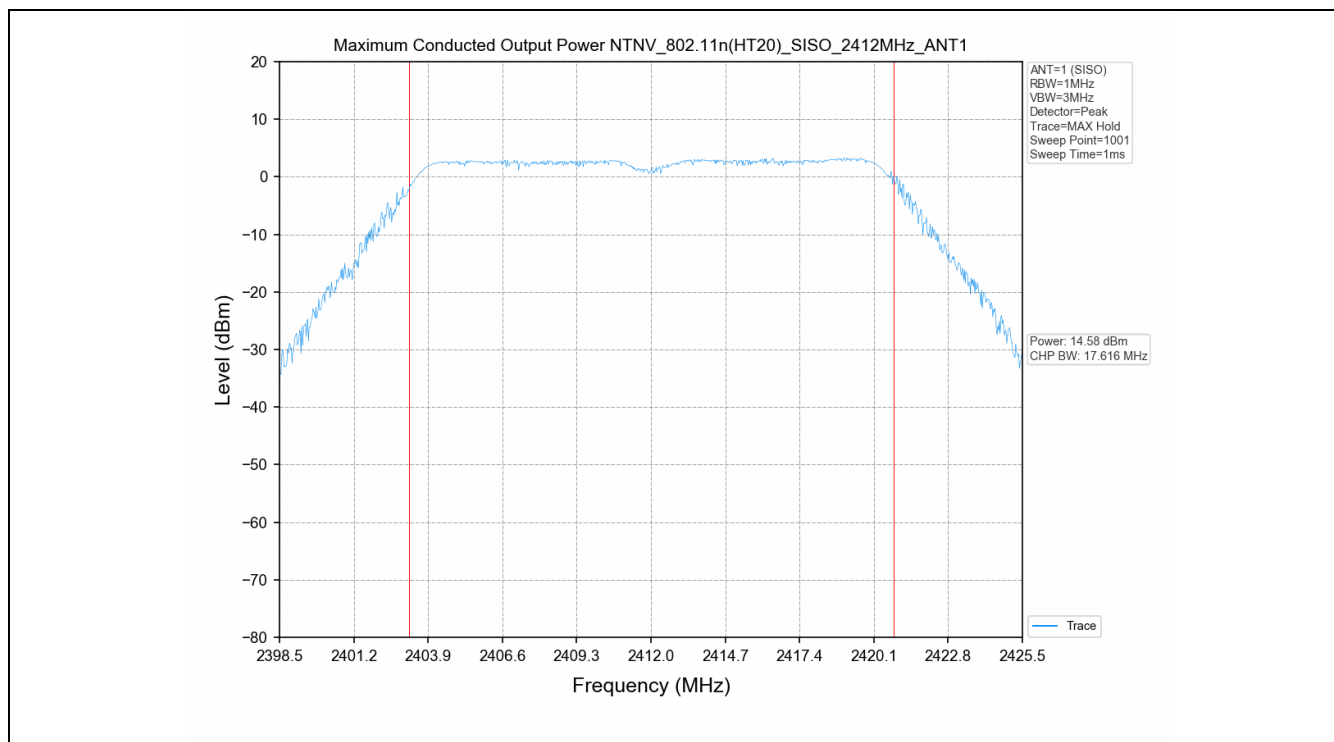
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	14.79	30	PASS
	2437	SISO	15.25	30	PASS
	2462	SISO	15.43	30	PASS
802.11g	2412	SISO	15.09	30	PASS
	2437	SISO	15.55	30	PASS
	2462	SISO	15.29	30	PASS
802.11n(HT20)	2412	SISO	14.58	30	PASS
	2437	SISO	15.06	30	PASS
	2462	SISO	15.34	30	PASS
802.11n(HT40)	2422	SISO	14.03	30	PASS
	2437	SISO	14.32	30	PASS
	2452	SISO	14.43	30	PASS

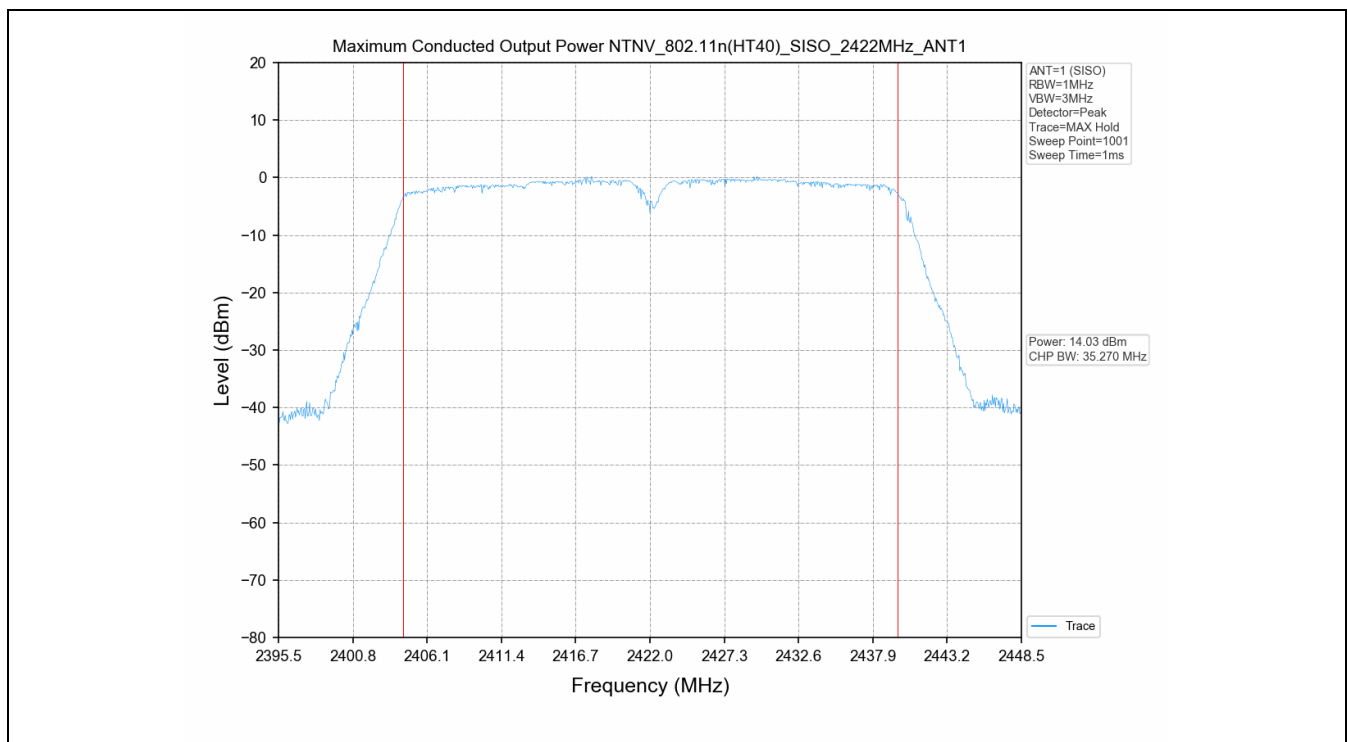
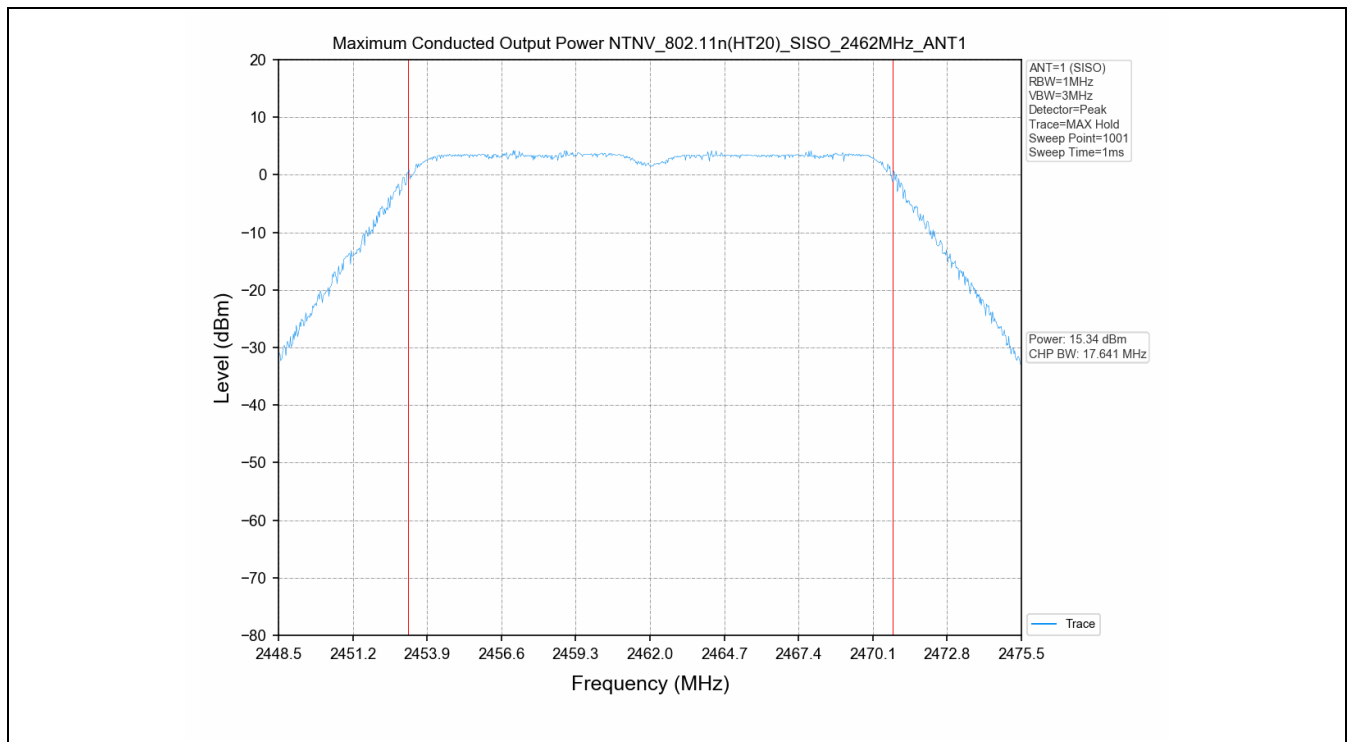
3.2 Test Graph

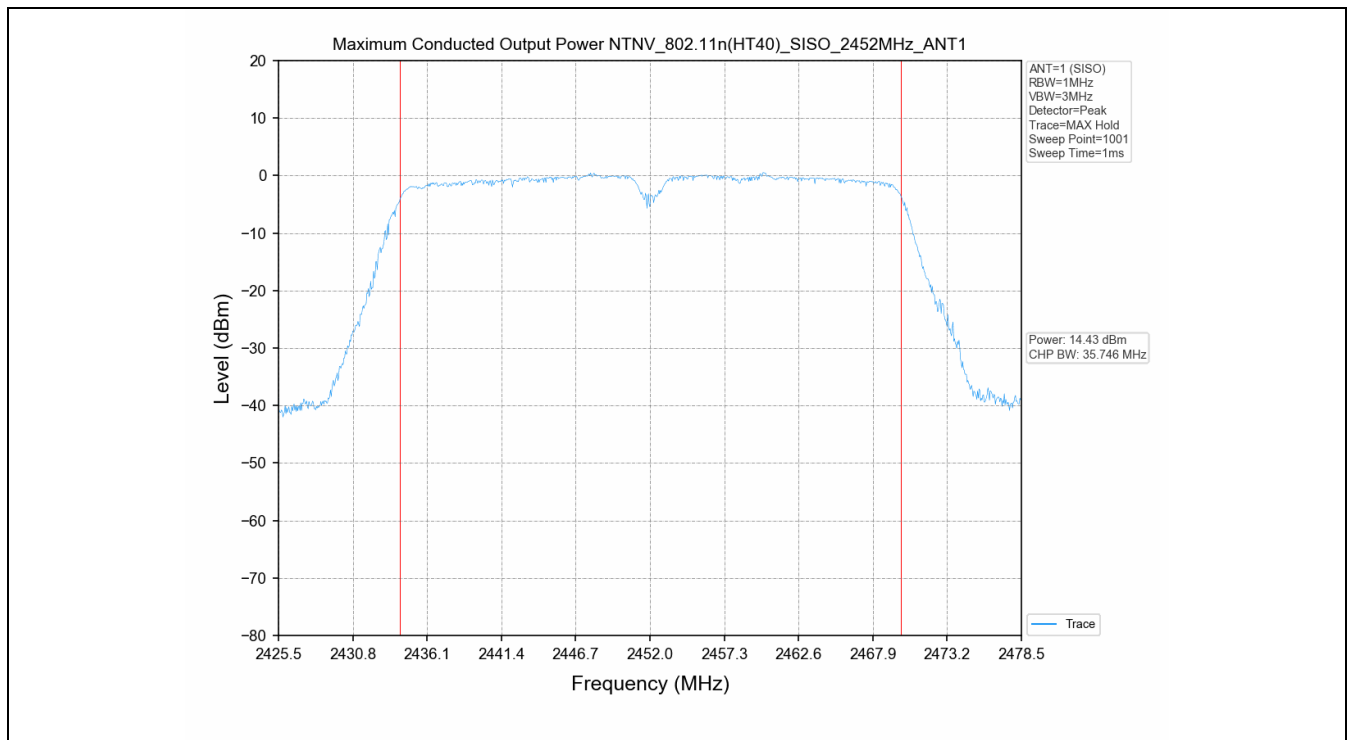
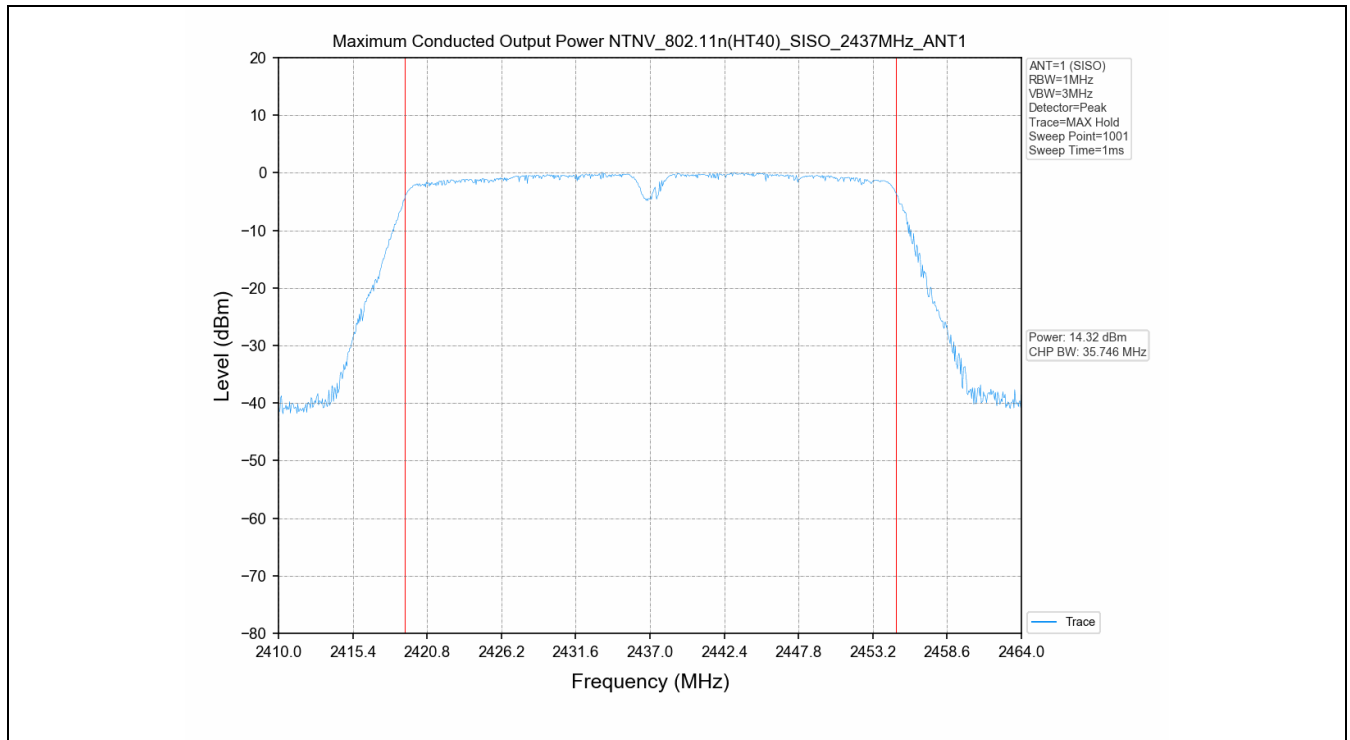












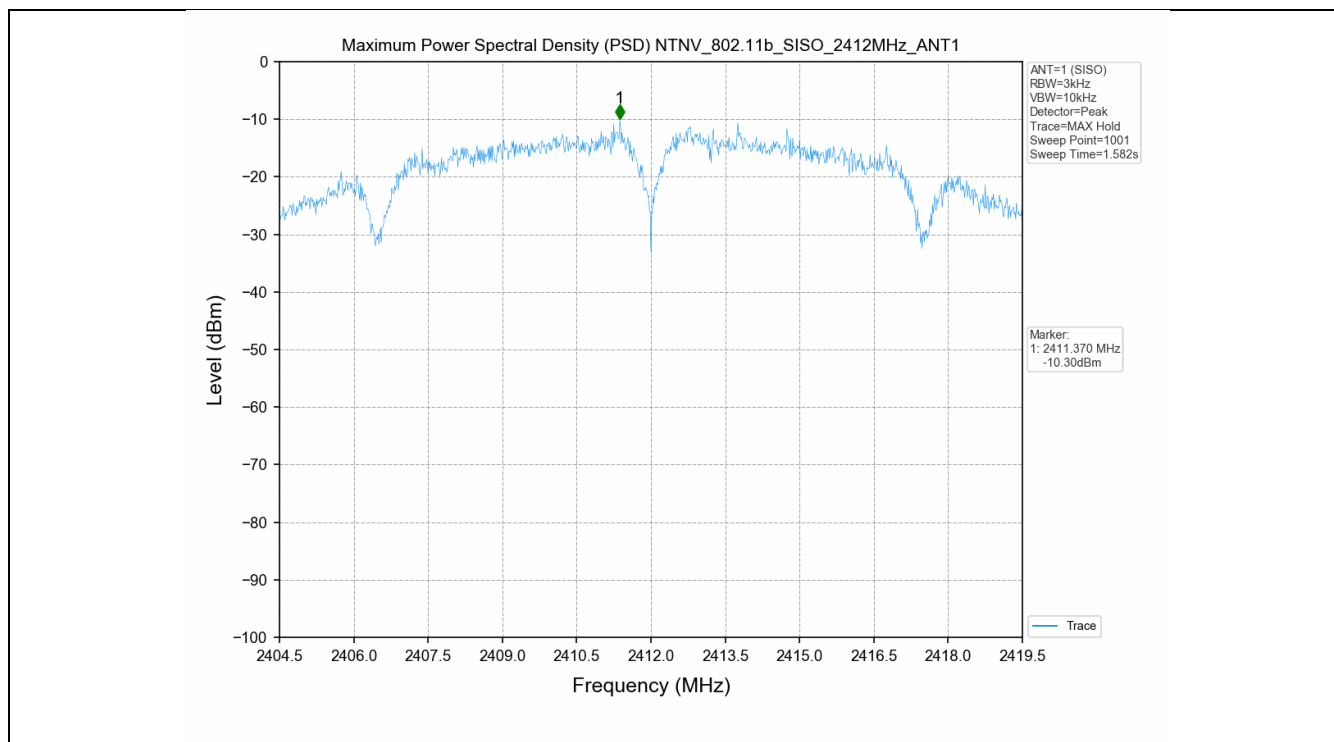


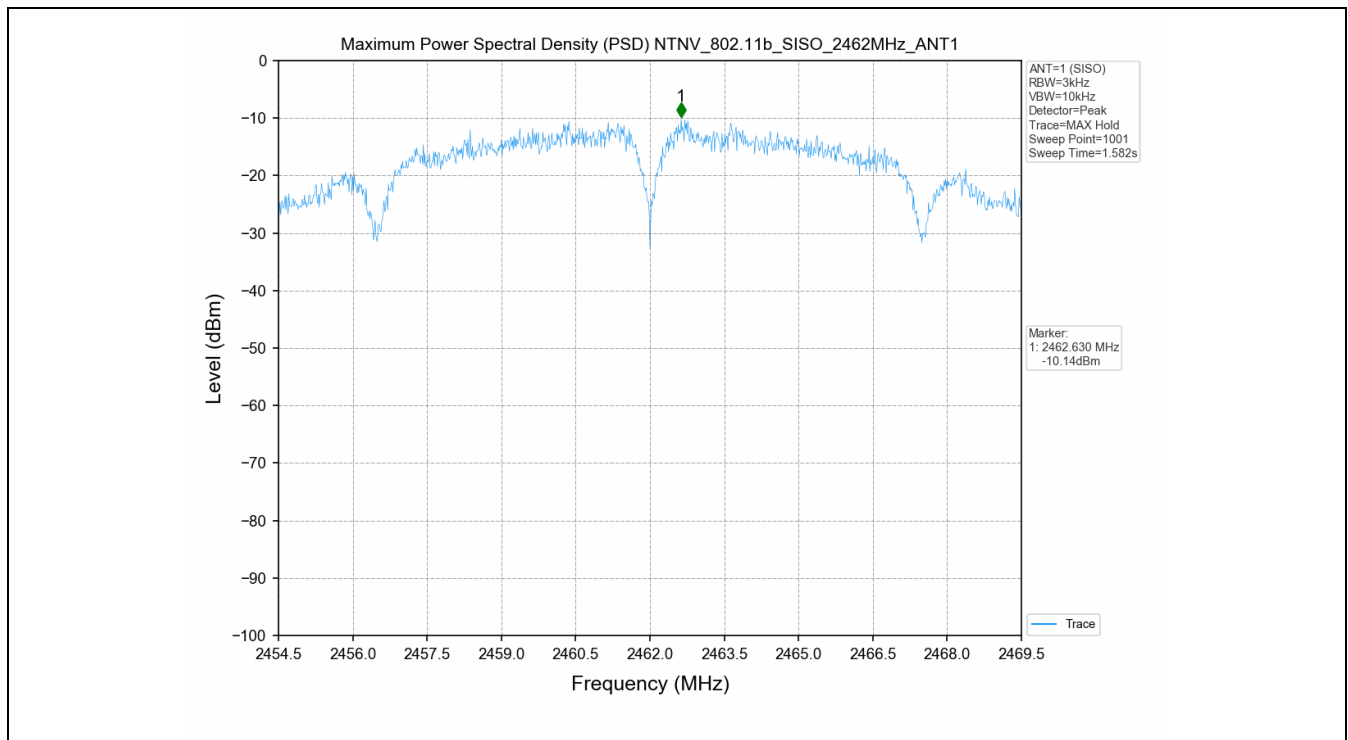
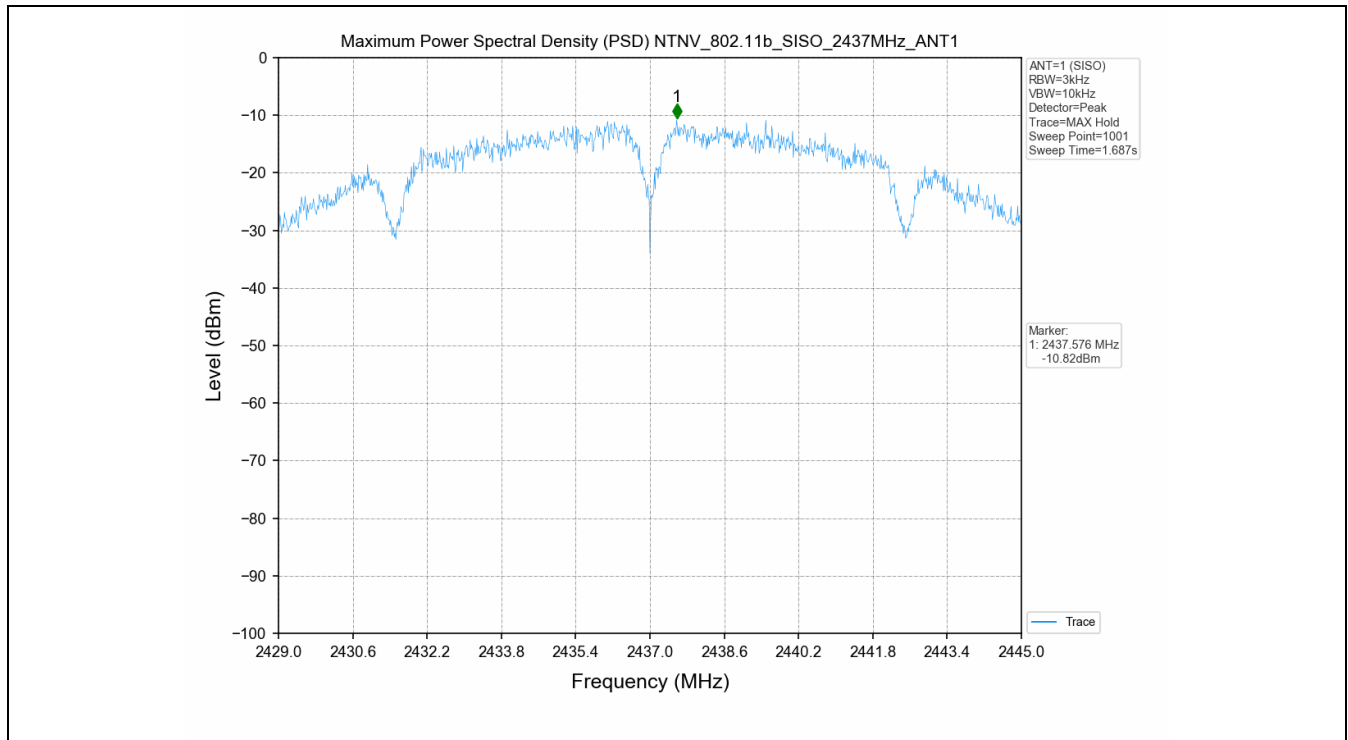
4. Maximum Power Spectral Density (PSD)

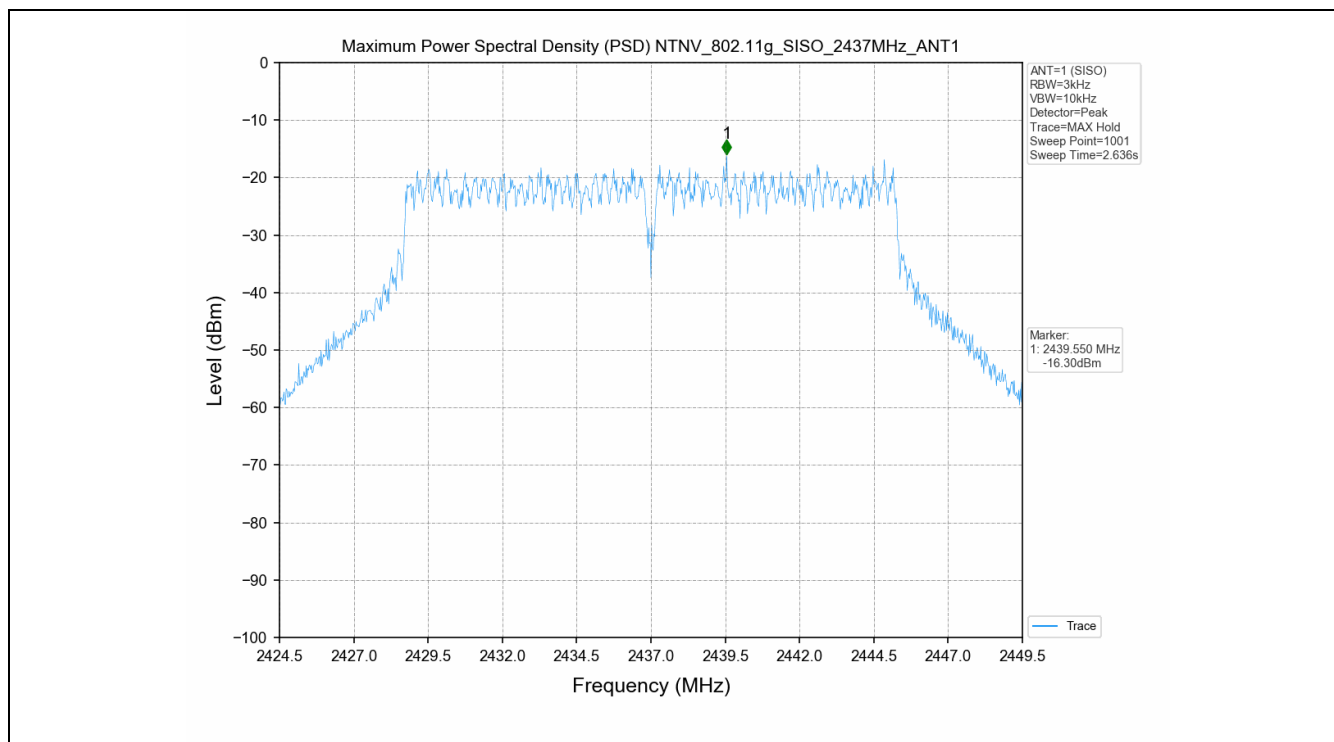
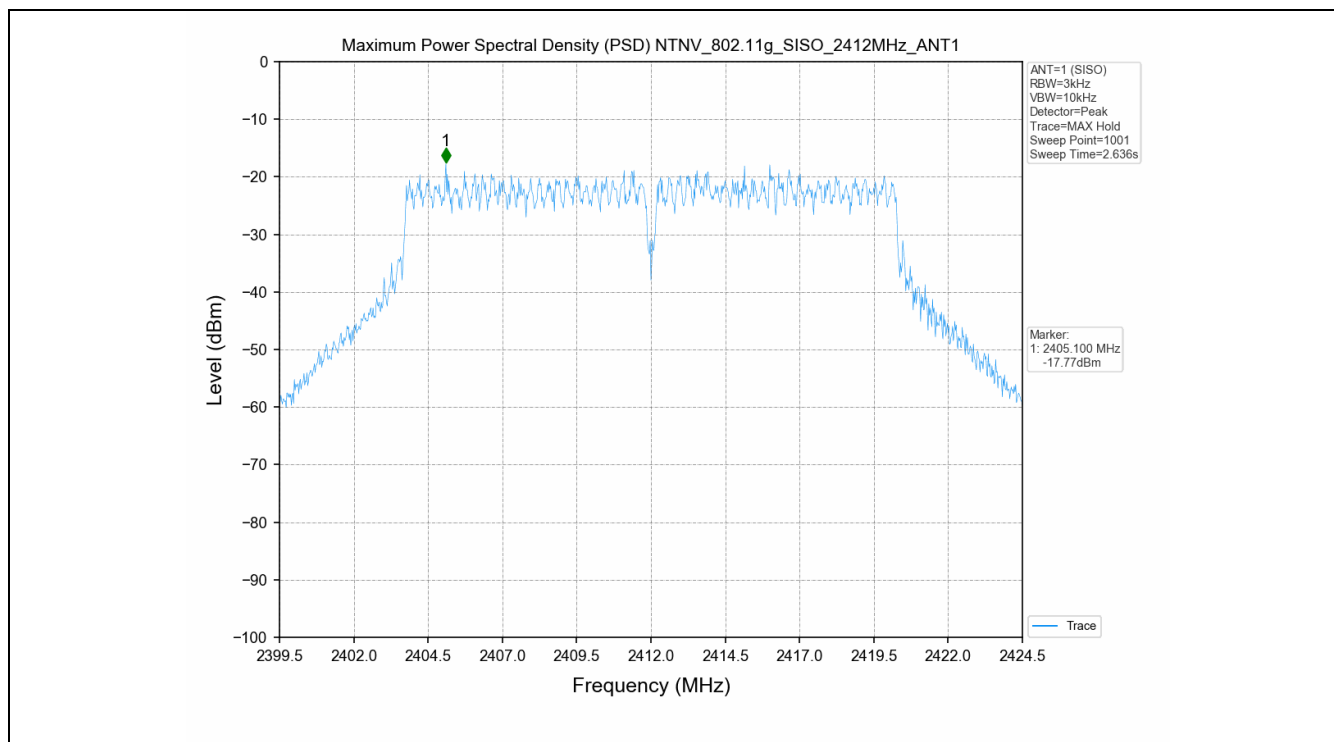
4.1 Test Result

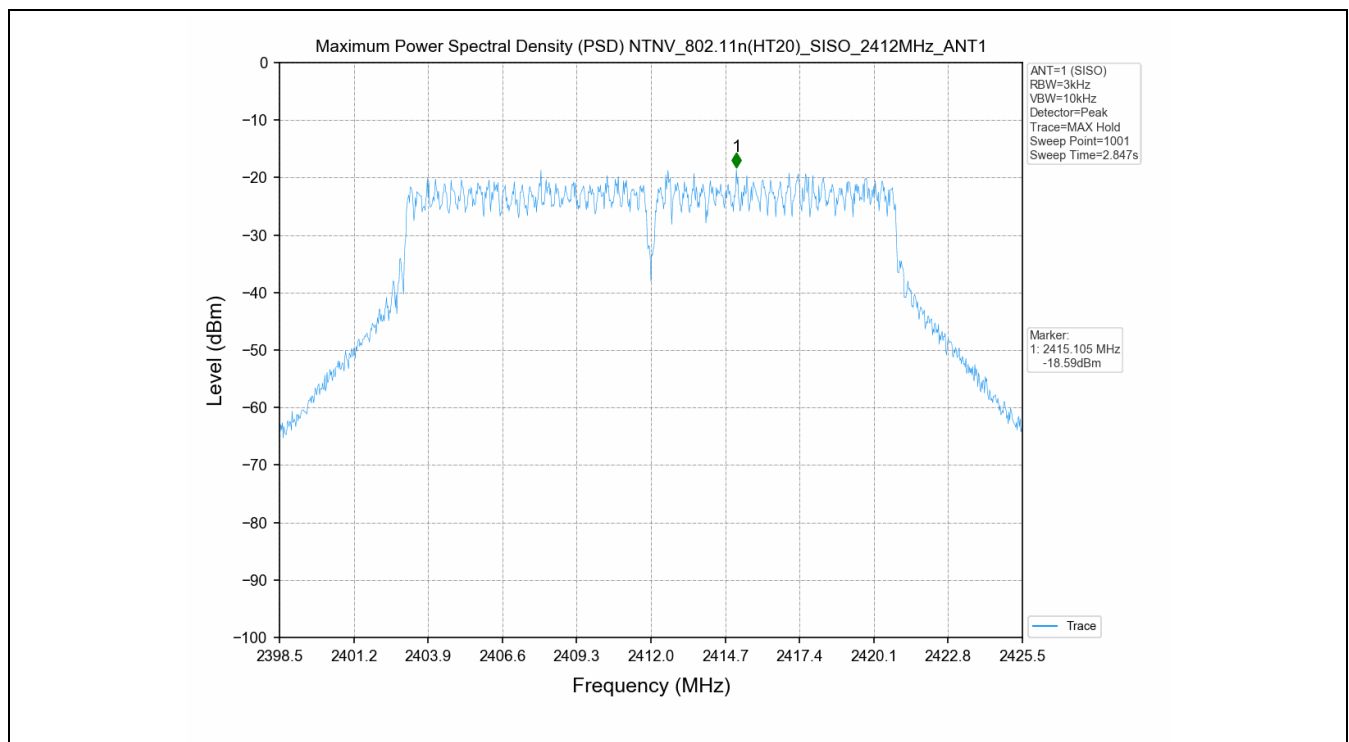
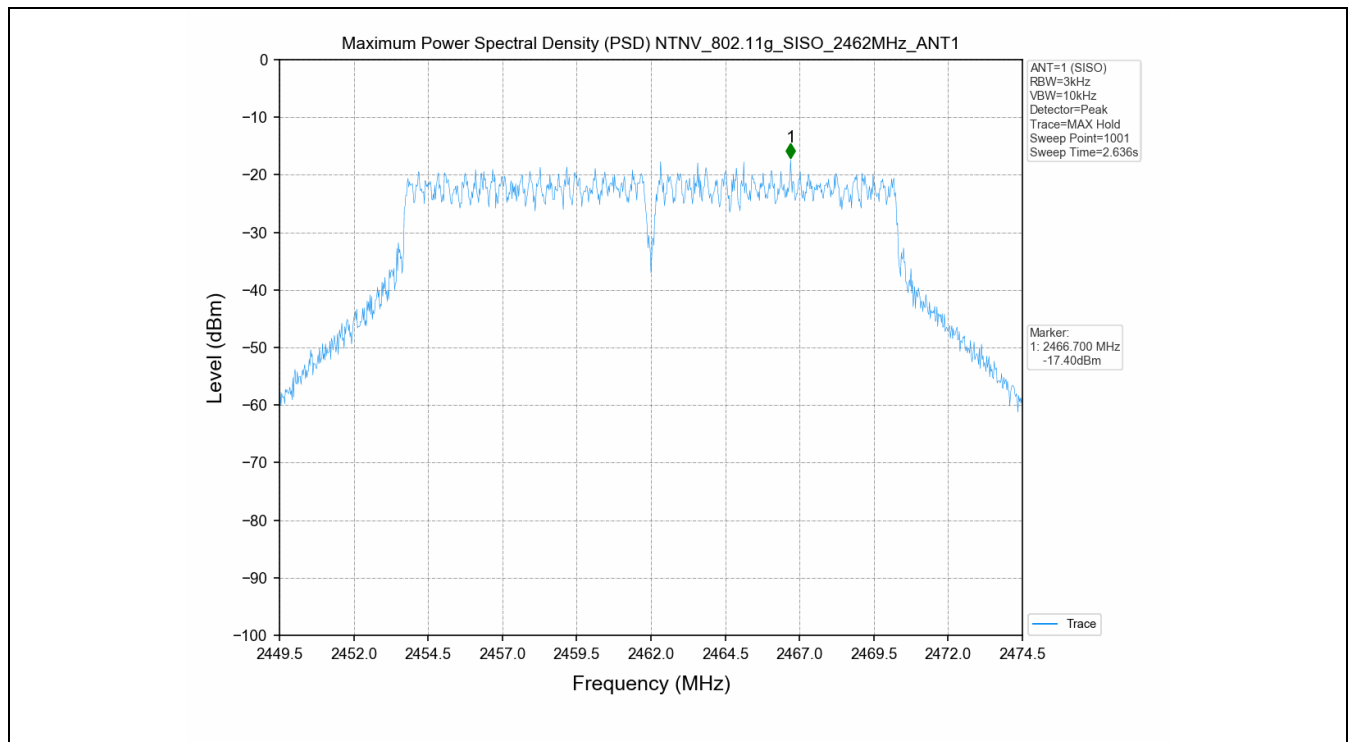
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-10.30	≤8	PASS
	2437	SISO	-10.82	≤8	PASS
	2462	SISO	-10.14	≤8	PASS
802.11g	2412	SISO	-17.77	≤8	PASS
	2437	SISO	-16.30	≤8	PASS
	2462	SISO	-17.40	≤8	PASS
802.11n(HT20)	2412	SISO	-18.59	≤8	PASS
	2437	SISO	-17.70	≤8	PASS
	2462	SISO	-18.21	≤8	PASS
802.11n(HT40)	2422	SISO	-21.84	≤8	PASS
	2437	SISO	-21.74	≤8	PASS
	2452	SISO	-21.99	≤8	PASS

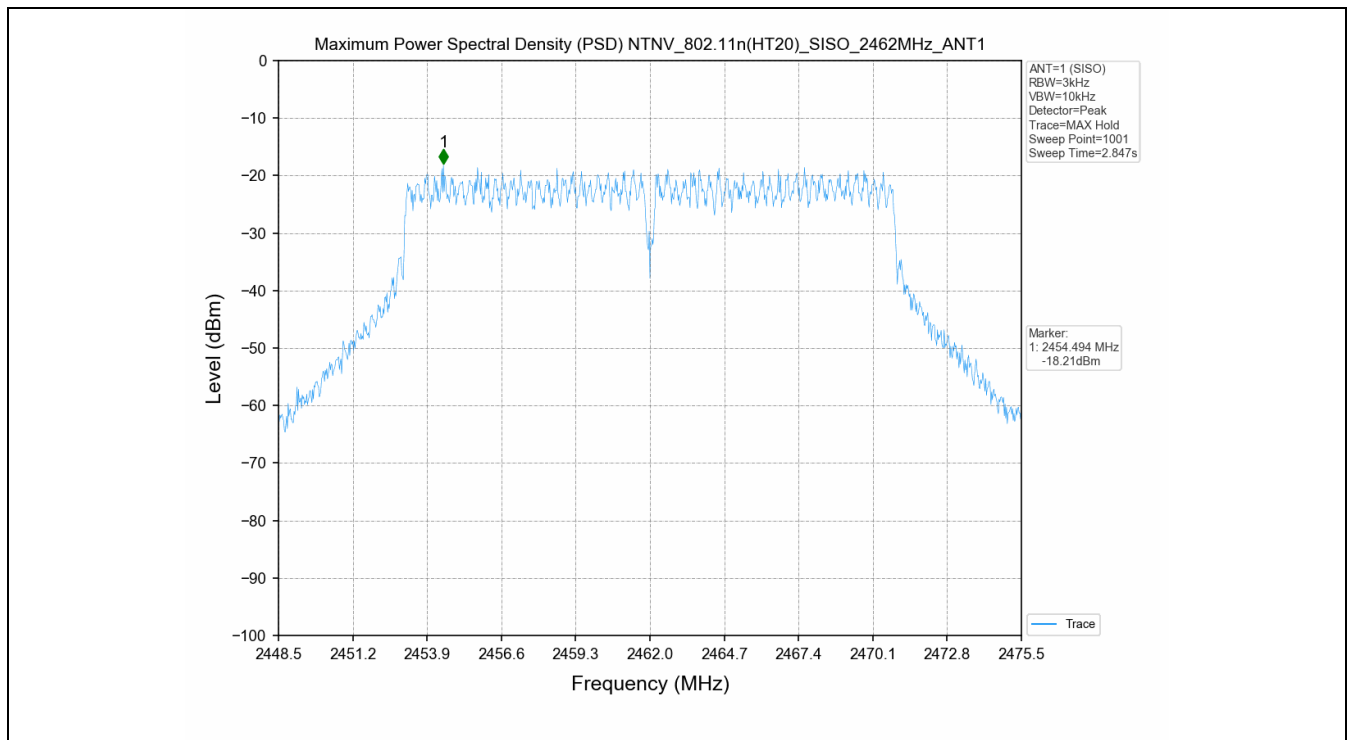
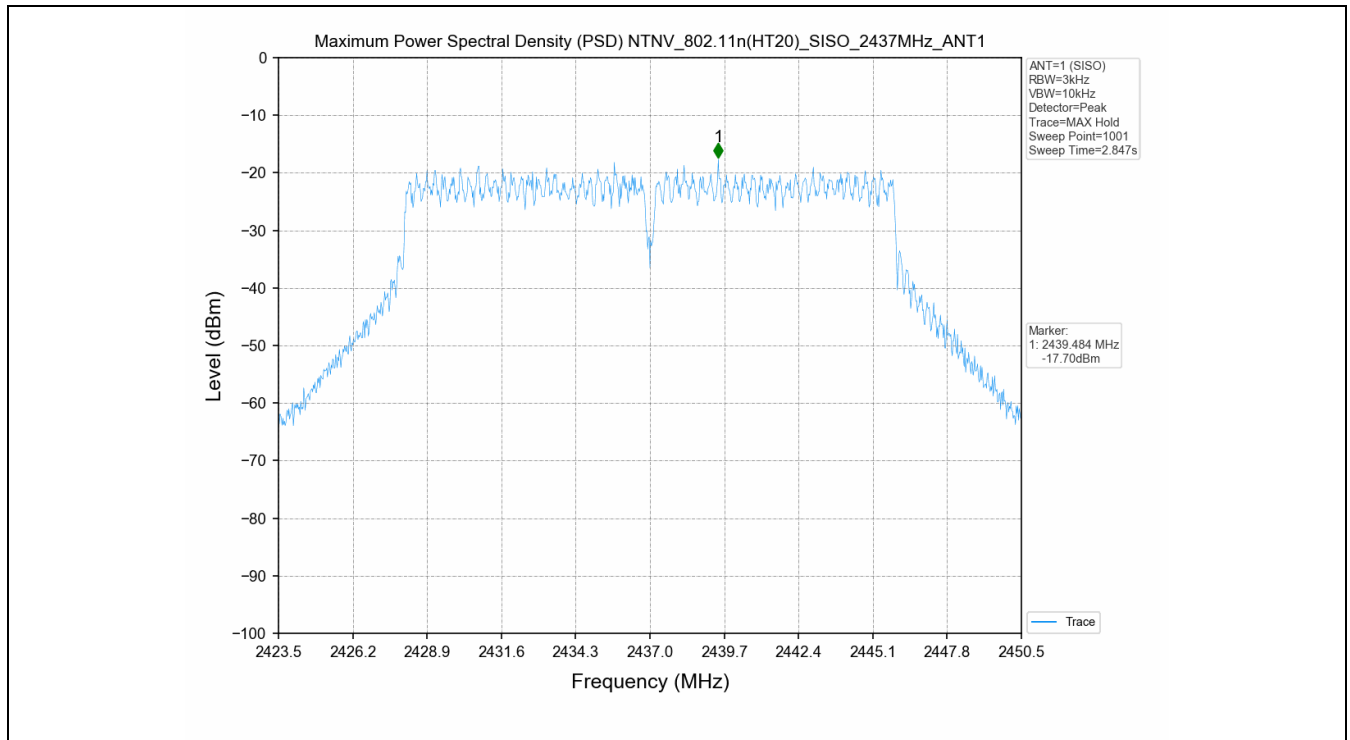
4.2 Test Graph

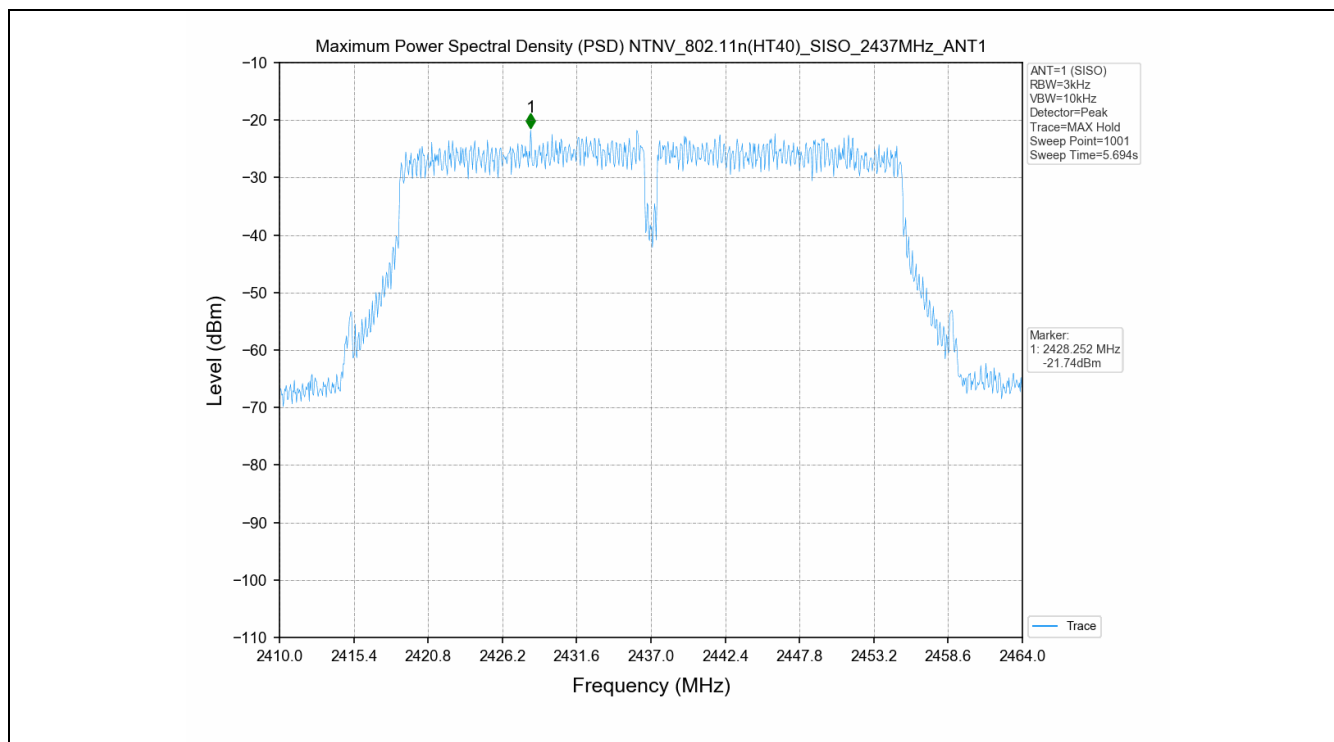
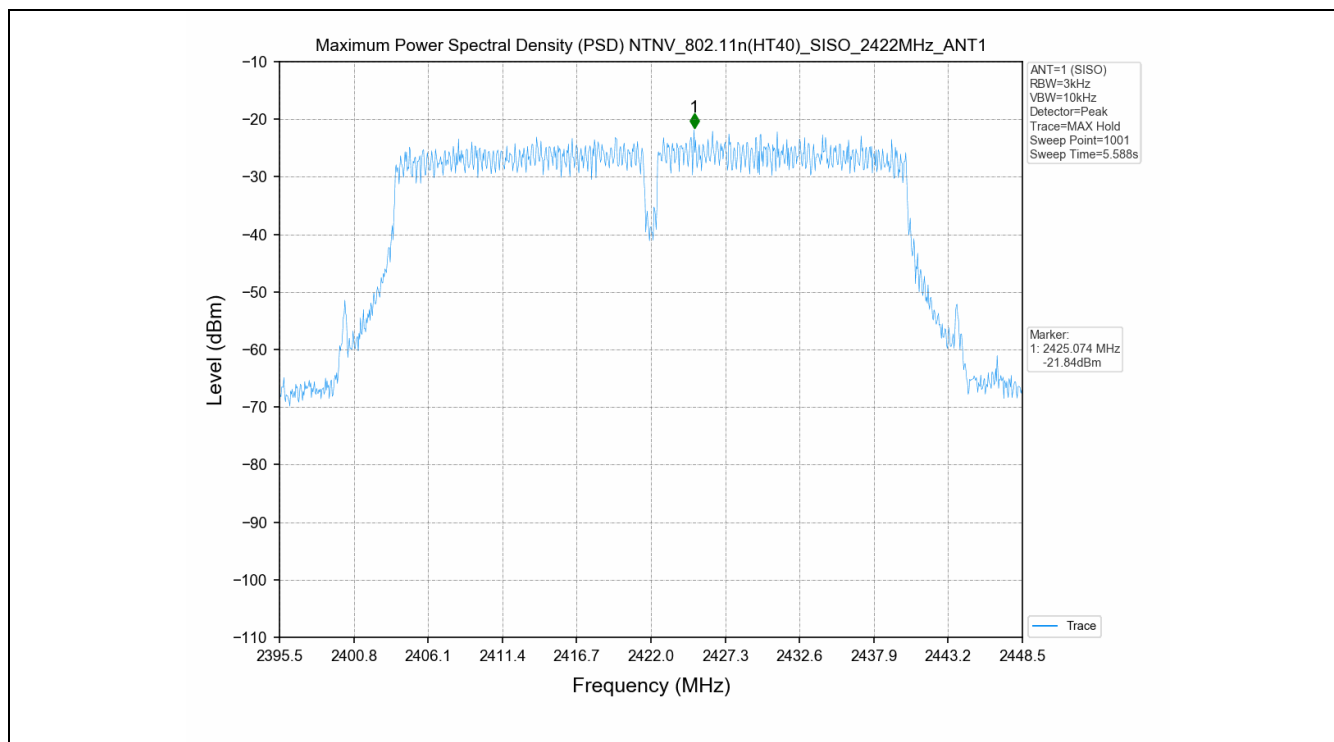


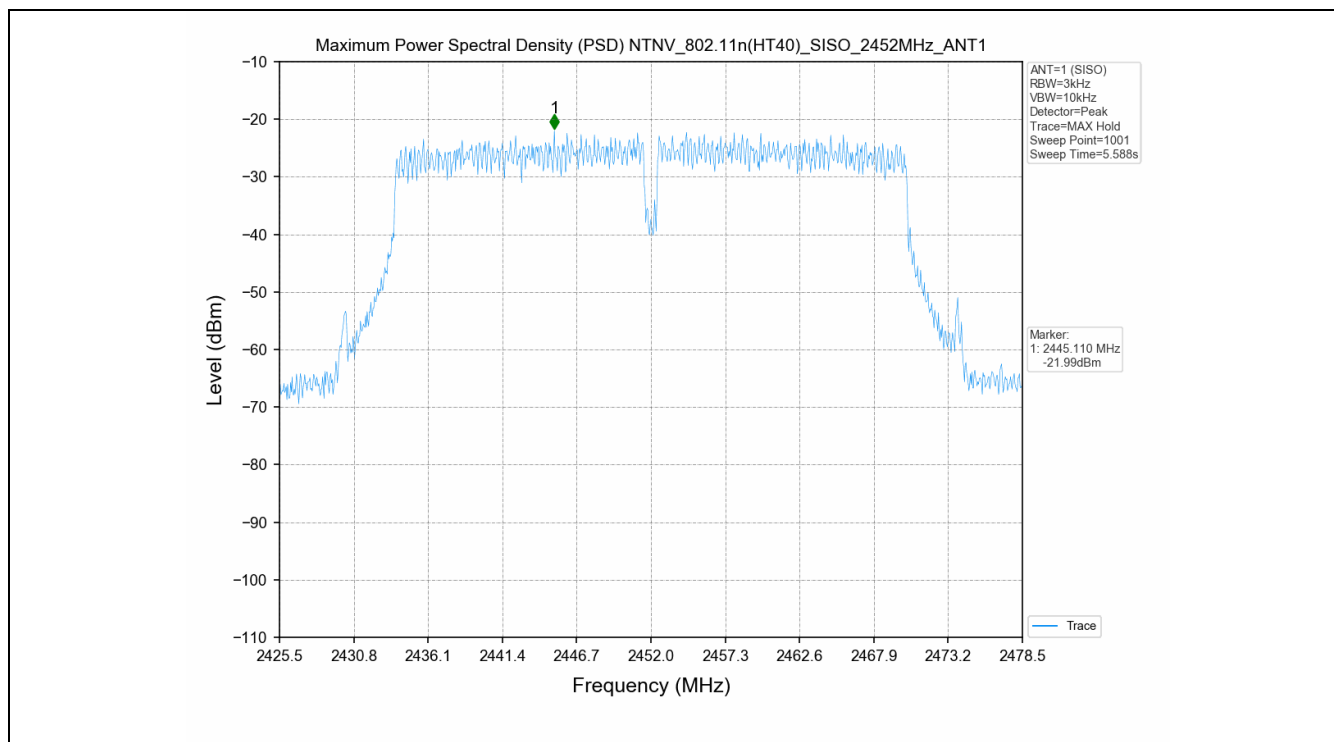












5. Unwanted Emissions in Non-restricted Frequency Bands

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

