

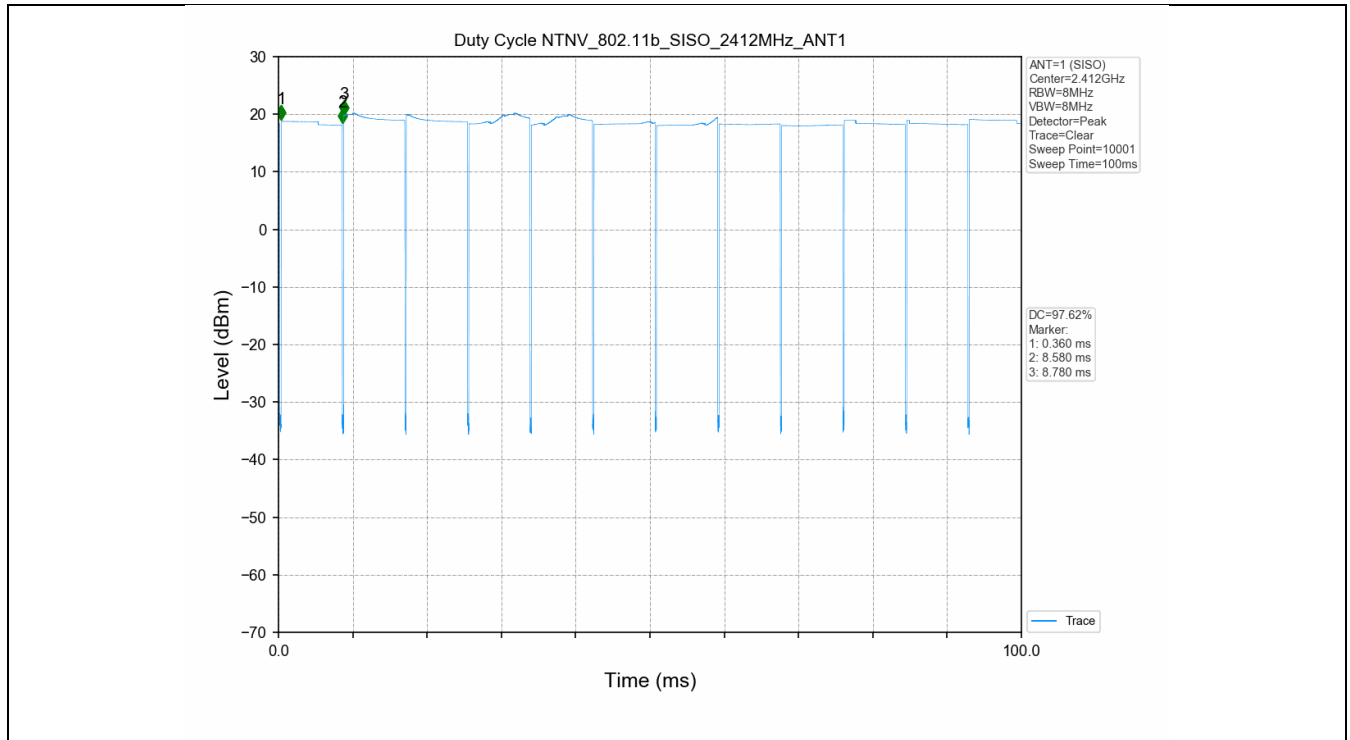
Appendix A for SHEM200900746601

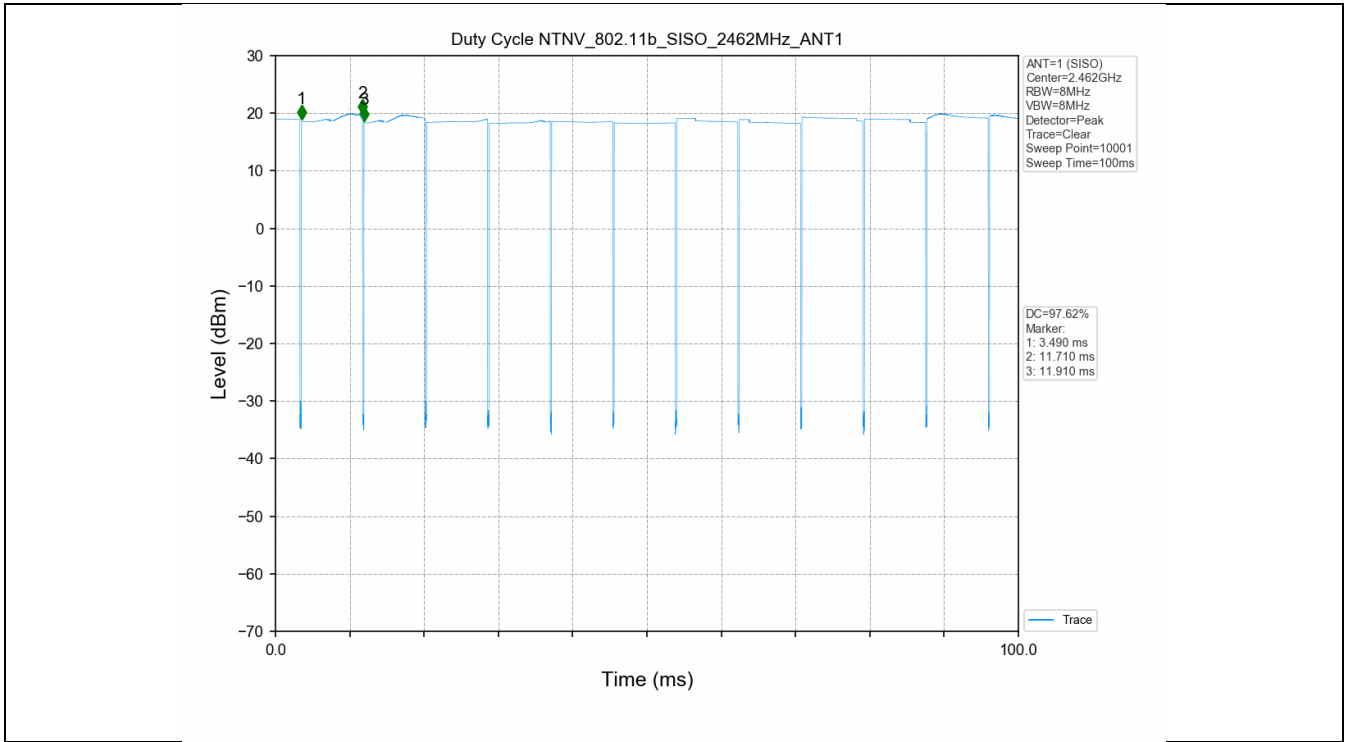
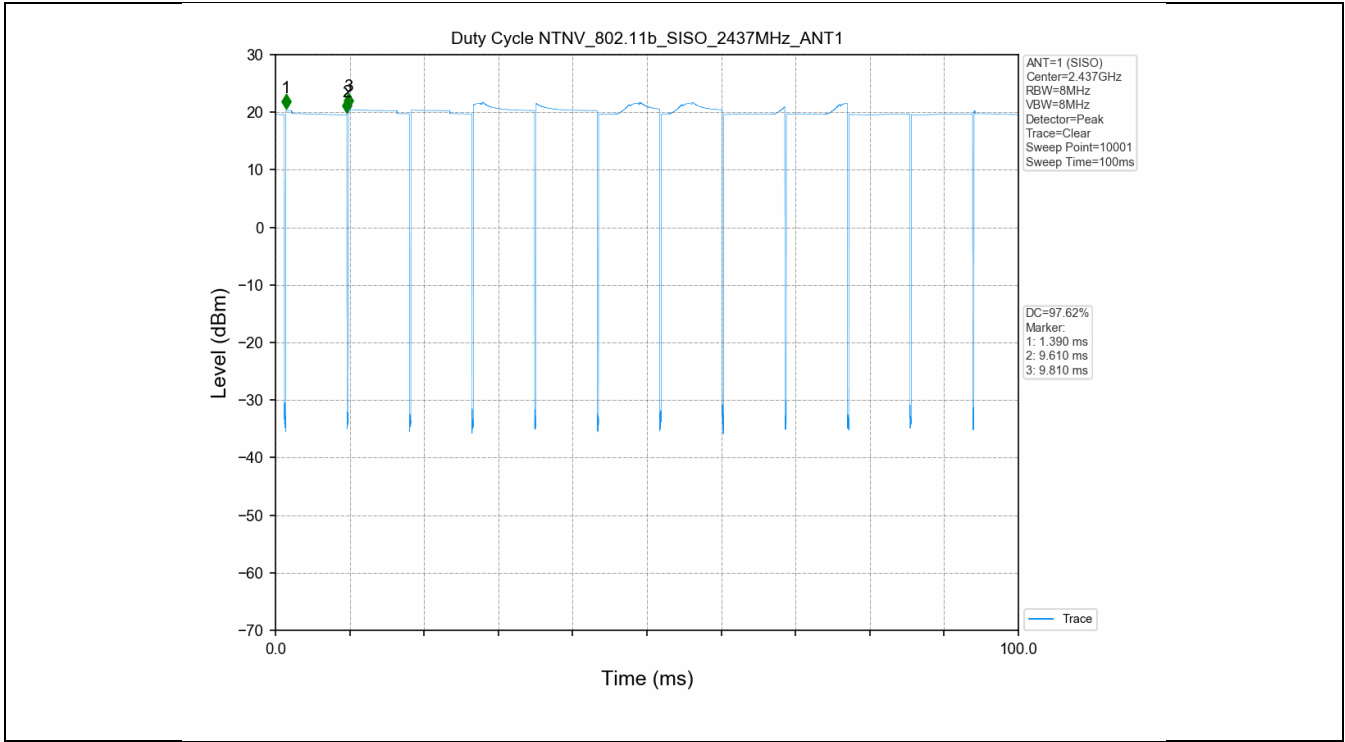
1. Duty Cycle

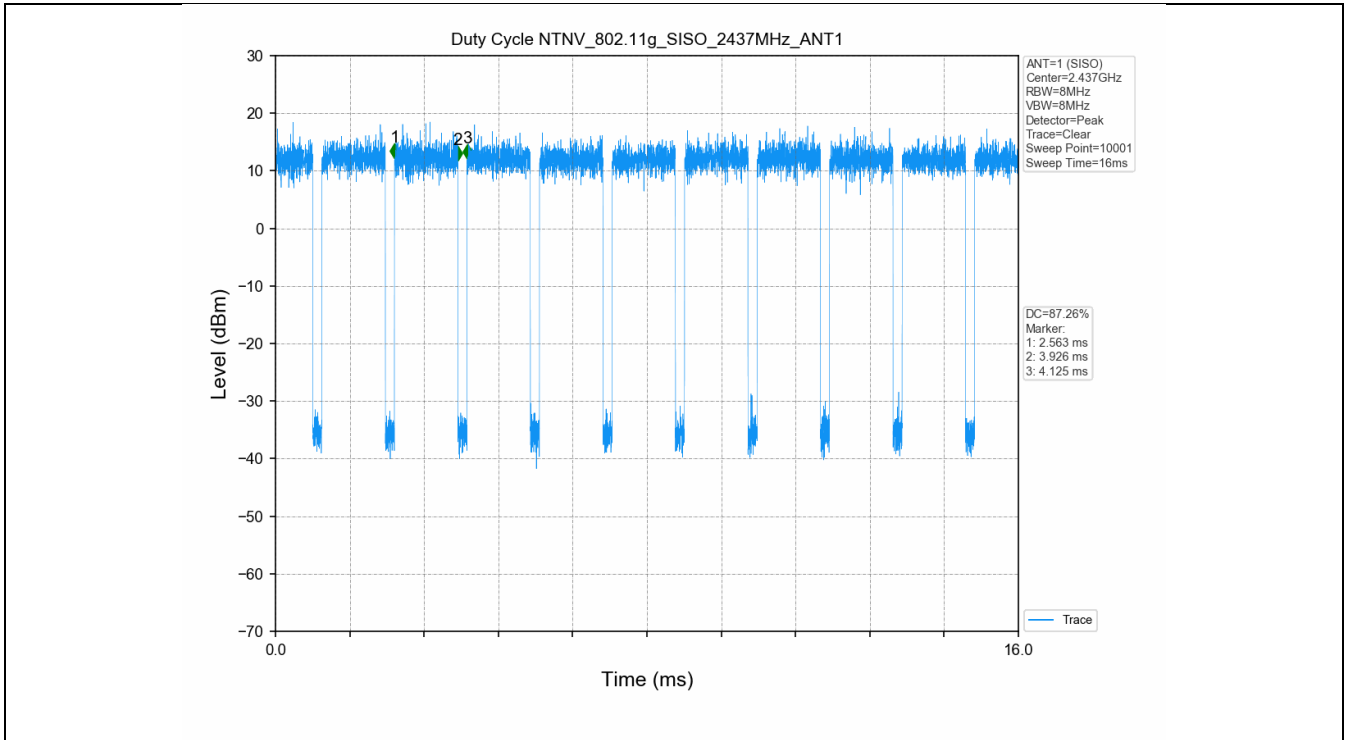
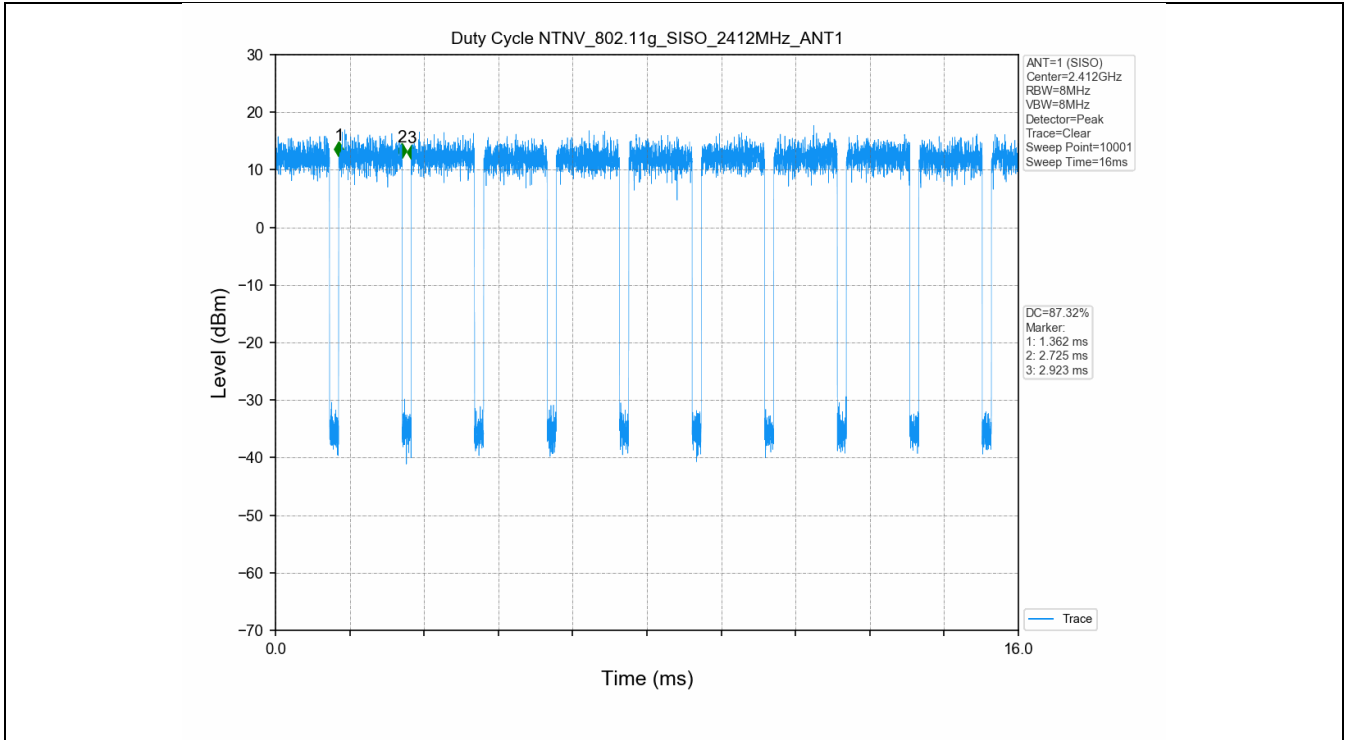
1.1 Test Result

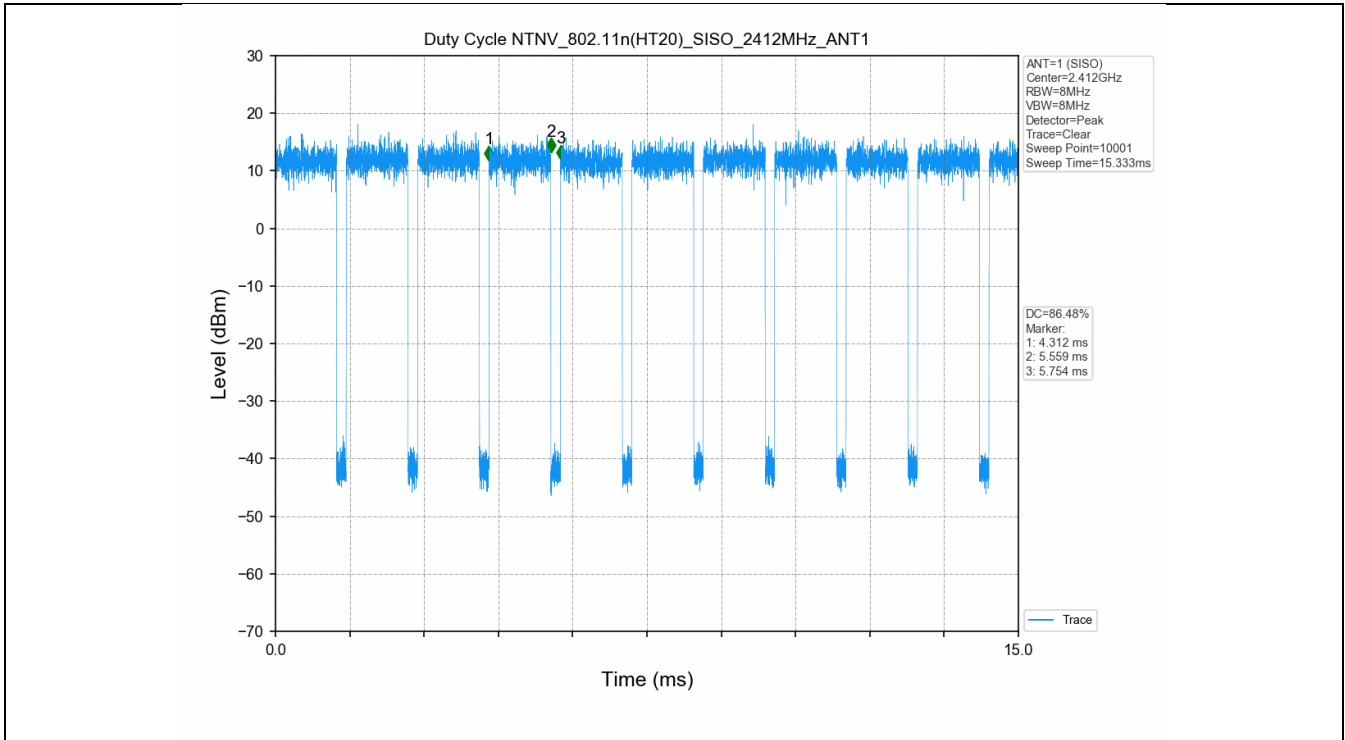
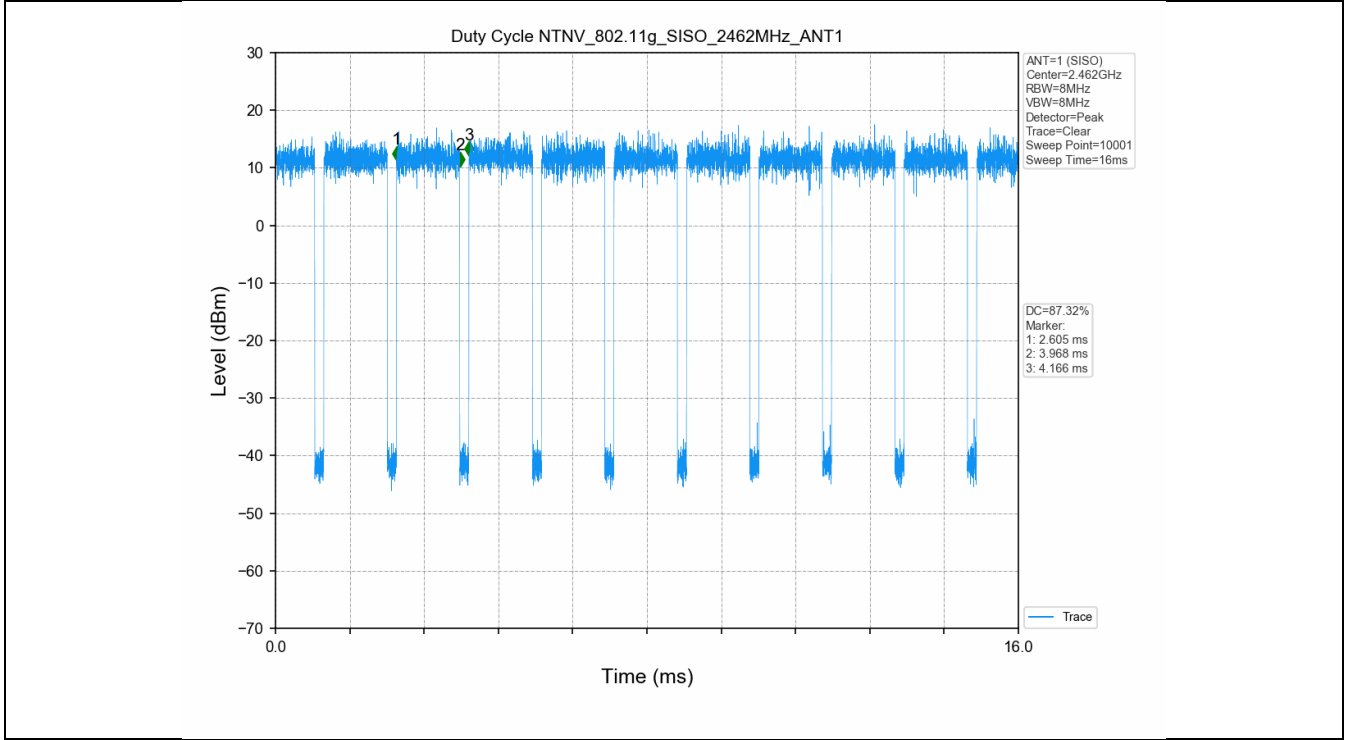
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	8.220	8.420	97.62	0.10
	2437	SISO	1	8.220	8.420	97.62	0.10
	2462	SISO	1	8.220	8.420	97.62	0.10
802.11g	2412	SISO	1	1.363	1.561	87.32	0.59
	2437	SISO	1	1.363	1.562	87.26	0.59
	2462	SISO	1	1.363	1.561	87.32	0.59
802.11n(HT20)	2412	SISO	1	1.247	1.442	86.48	0.63
	2437	SISO	1	1.248	1.442	86.55	0.63
	2462	SISO	1	1.248	1.443	86.49	0.63
802.11n(HT40)	2422	SISO	1	0.636	0.836	76.08	1.19
	2437	SISO	1	0.635	0.835	76.05	1.19
	2452	SISO	1	0.635	0.835	76.05	1.19

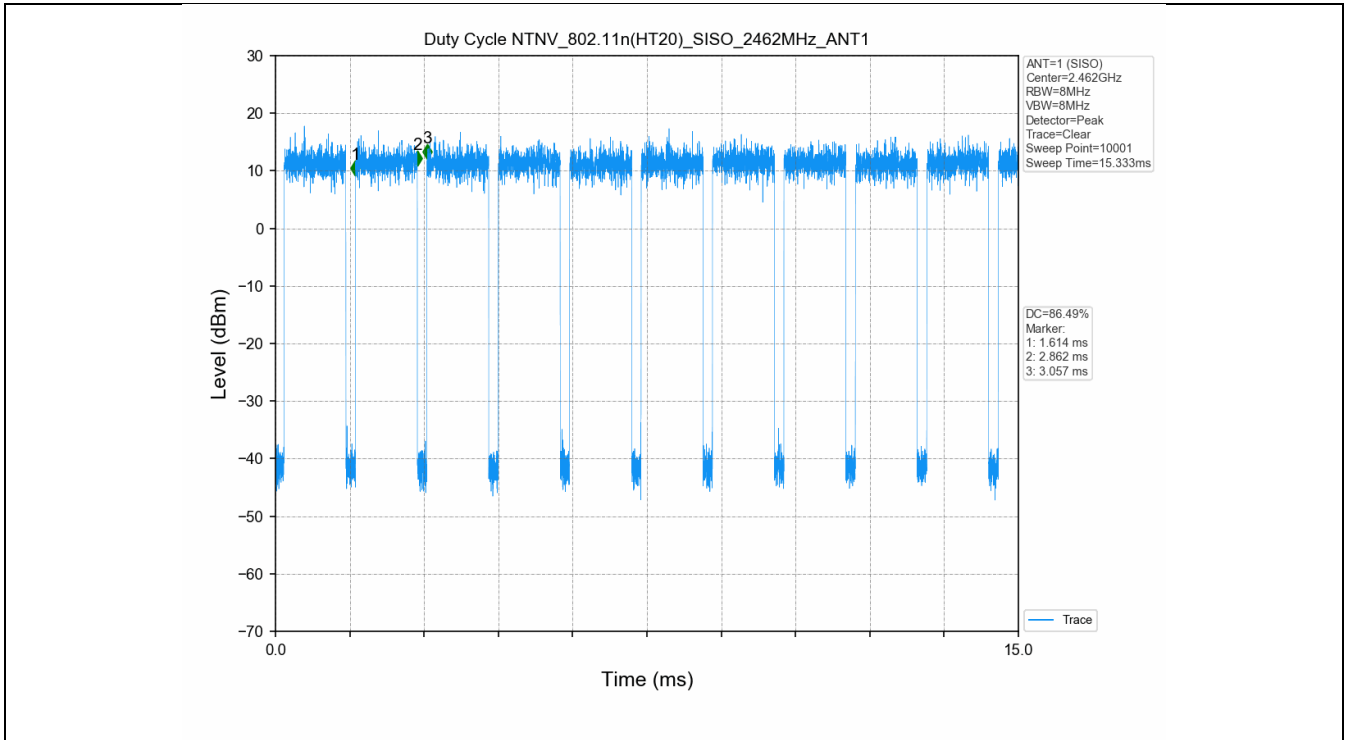
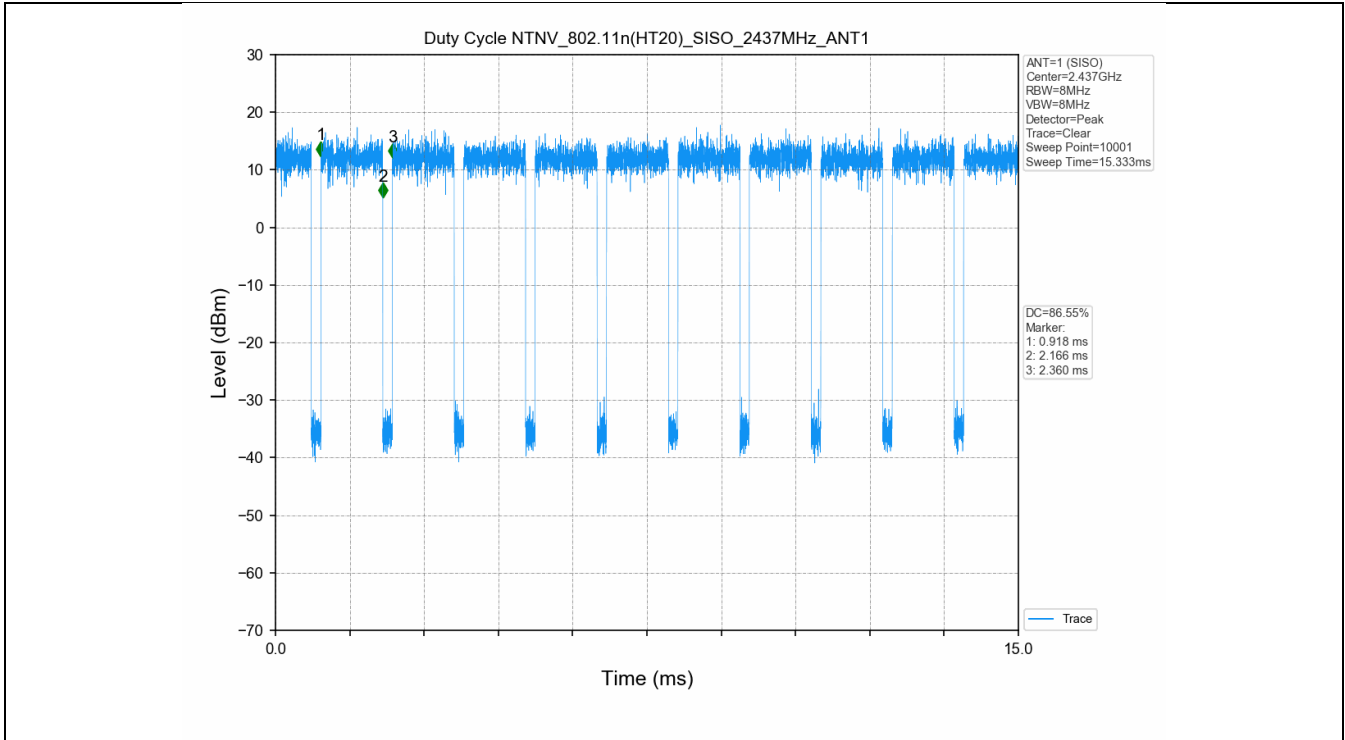
1.2 Test Graph

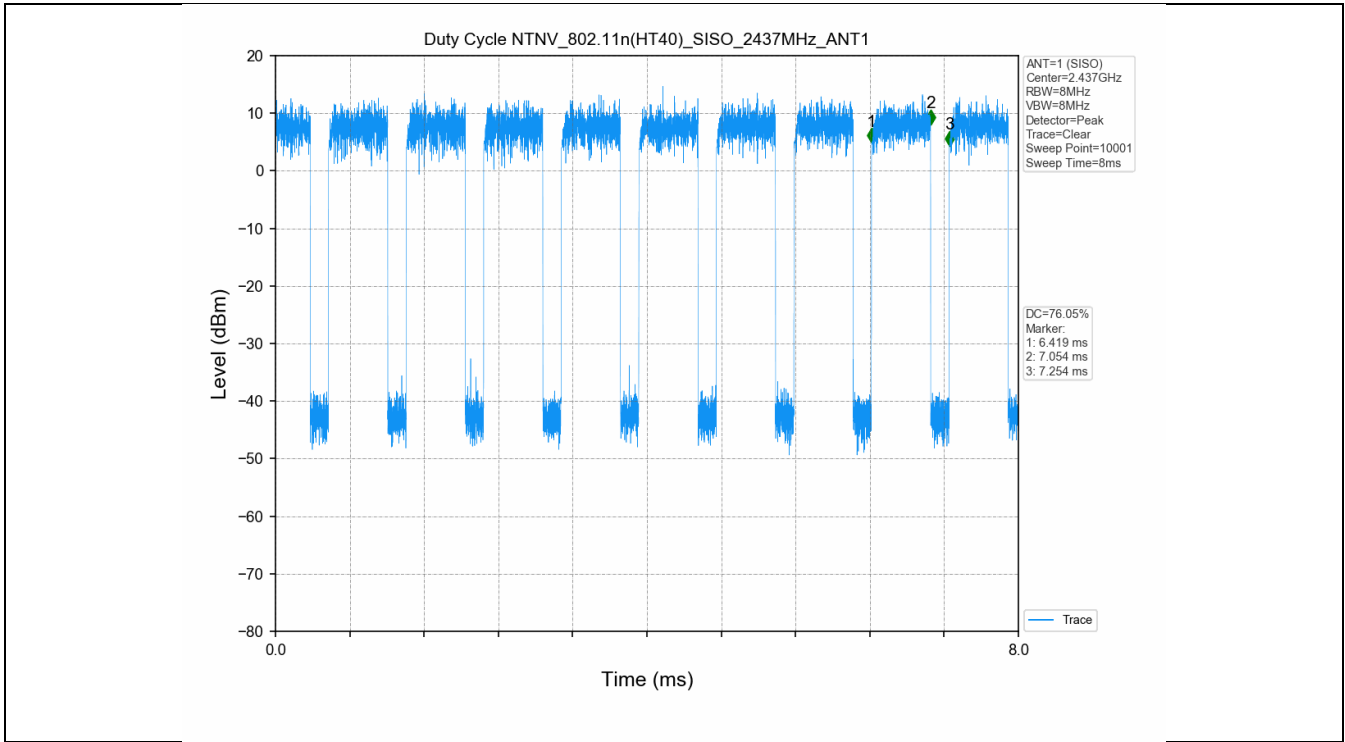
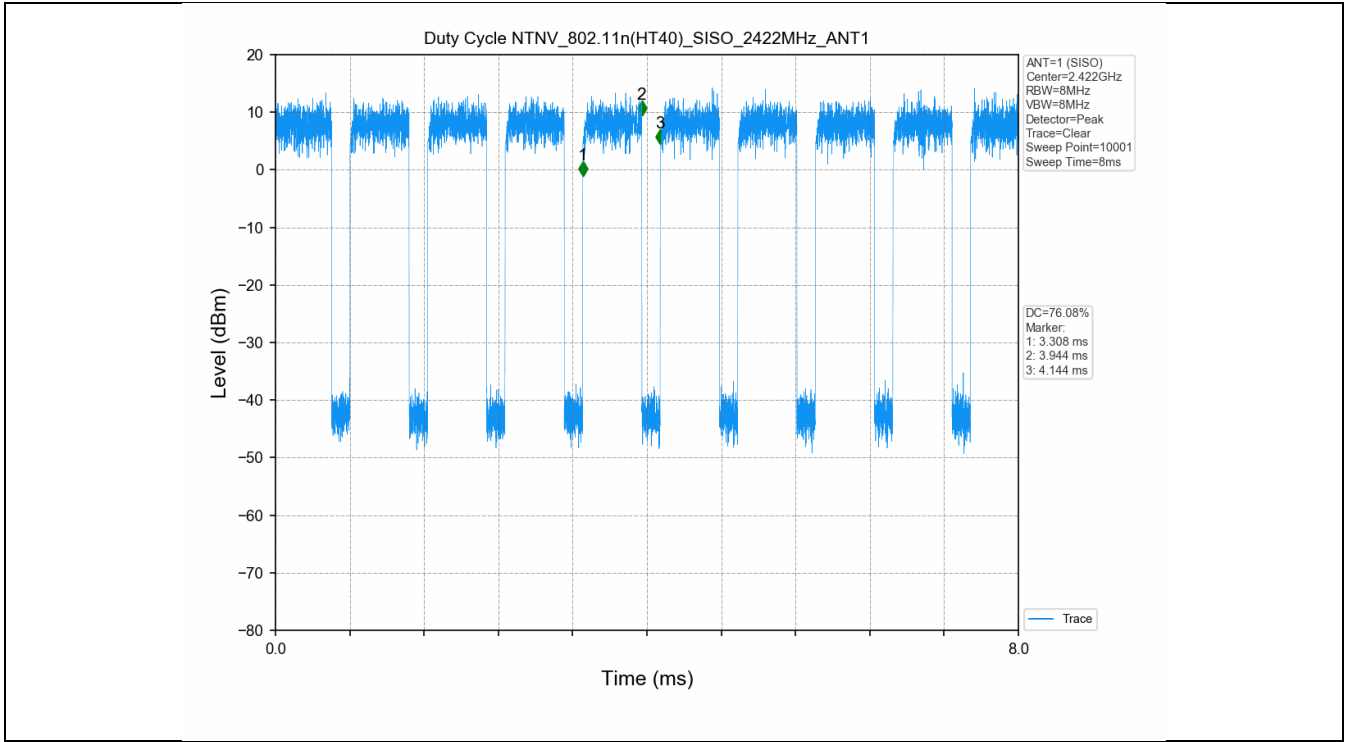


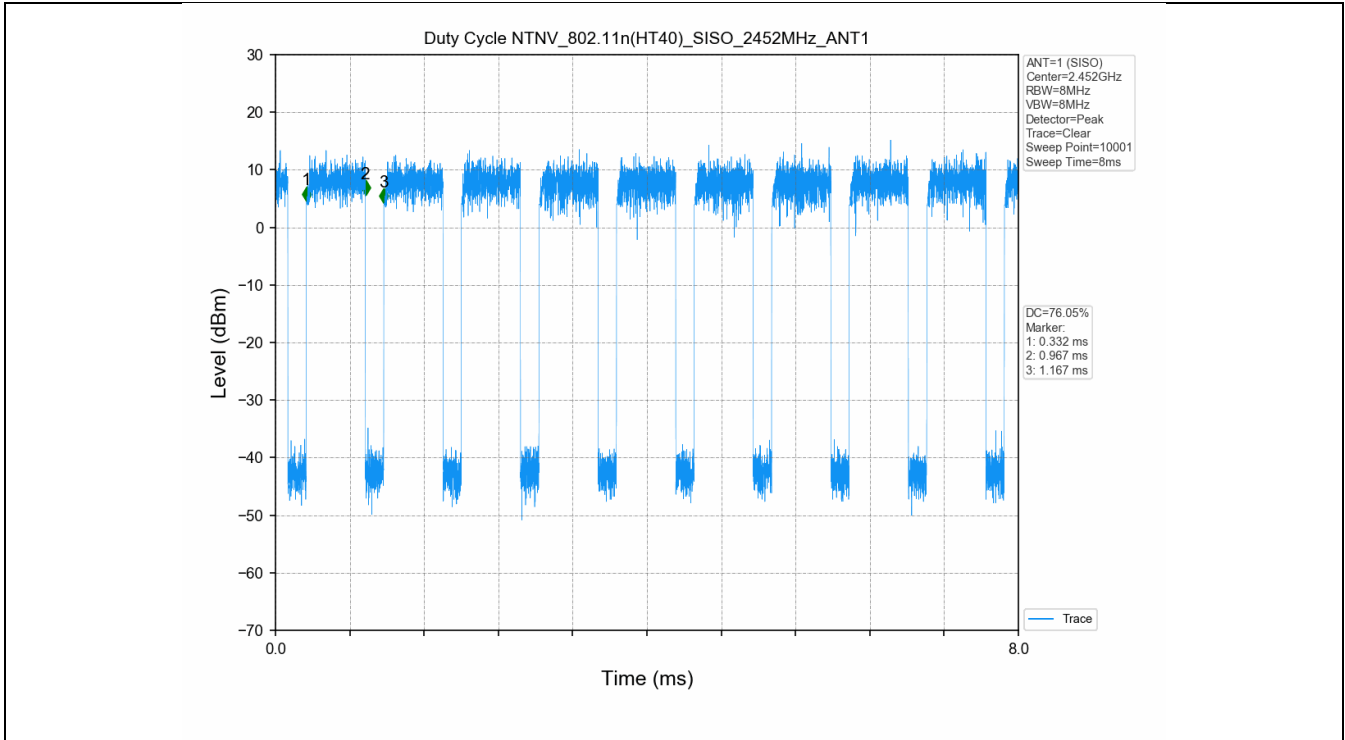












2. Bandwidth

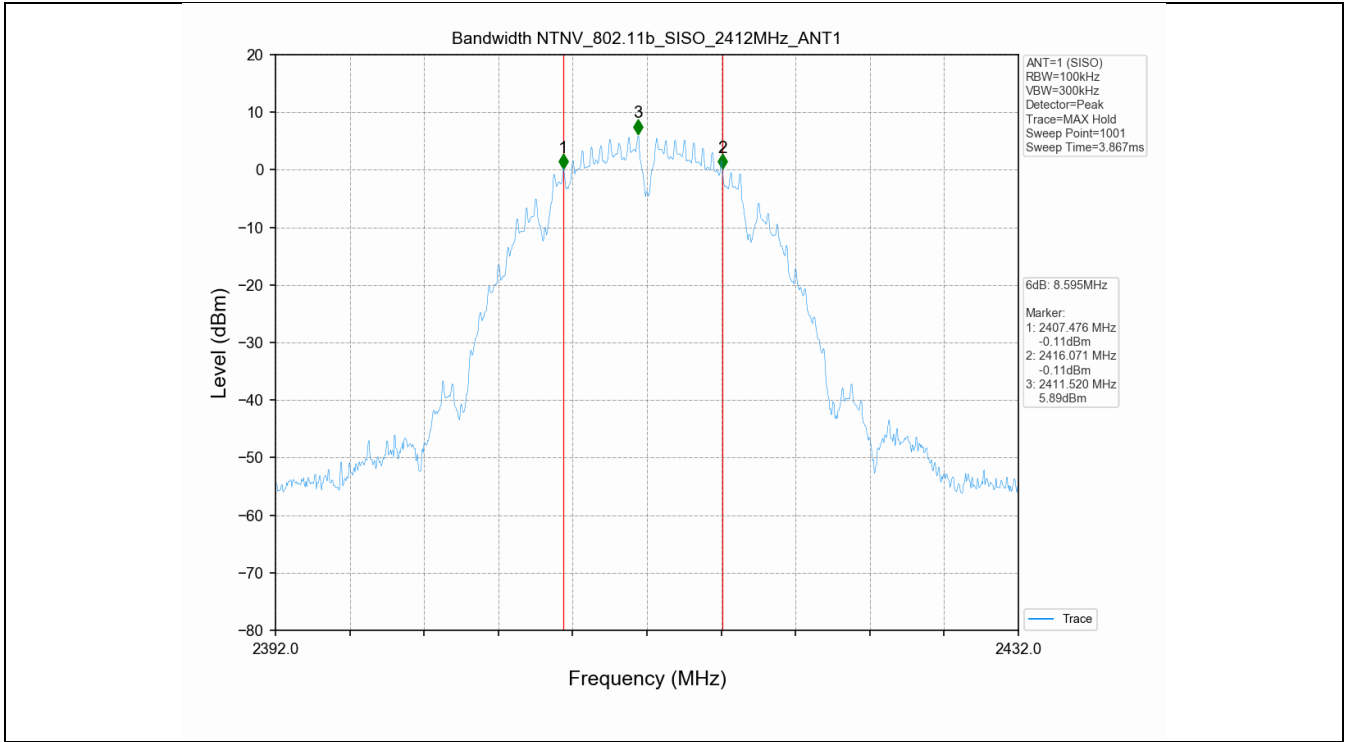
2.1 Test Result

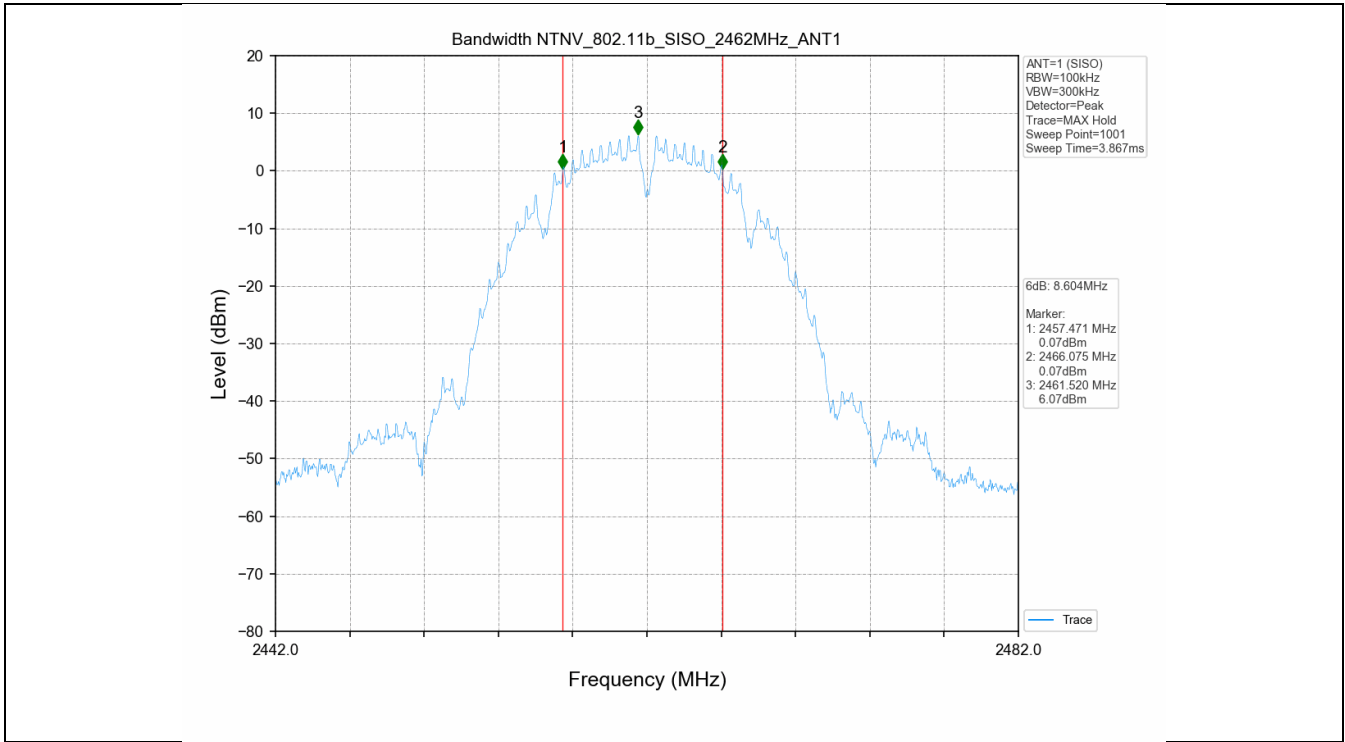
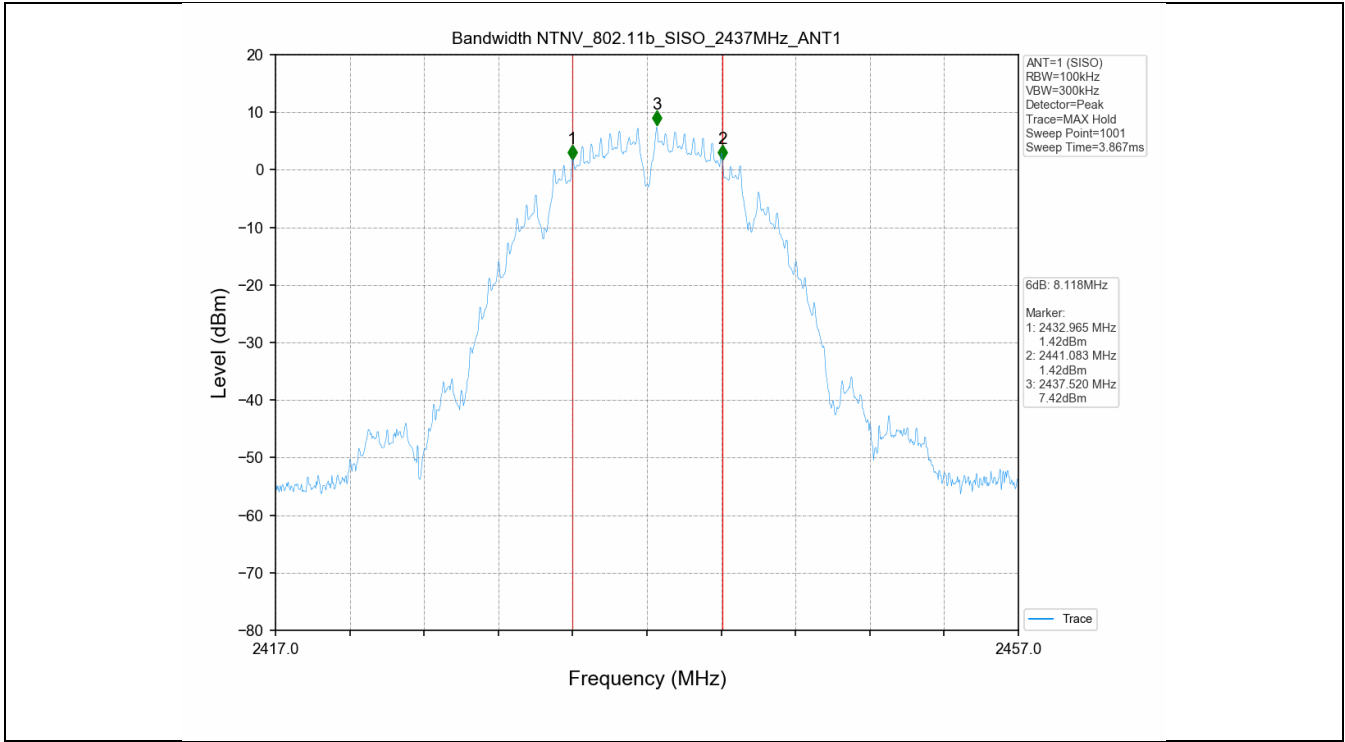
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth	Verdict
				Test Result (MHz)	
802.11b	2412	SISO	1	8.595	PASS
	2437	SISO	1	8.118	PASS
	2462	SISO	1	8.604	PASS
802.11g	2412	SISO	1	16.403	PASS
	2437	SISO	1	16.390	PASS
	2462	SISO	1	16.373	PASS
802.11n(HT20)	2412	SISO	1	17.621	PASS
	2437	SISO	1	17.595	PASS
	2462	SISO	1	17.341	PASS
802.11n(HT40)	2422	SISO	1	35.379	PASS
	2437	SISO	1	35.200	PASS
	2452	SISO	1	35.216	PASS

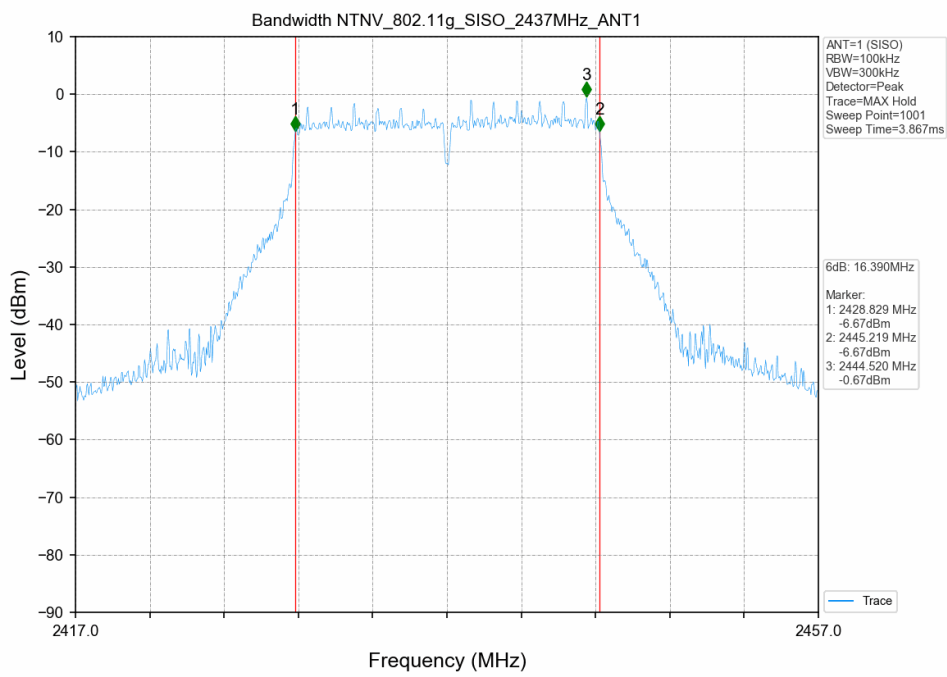
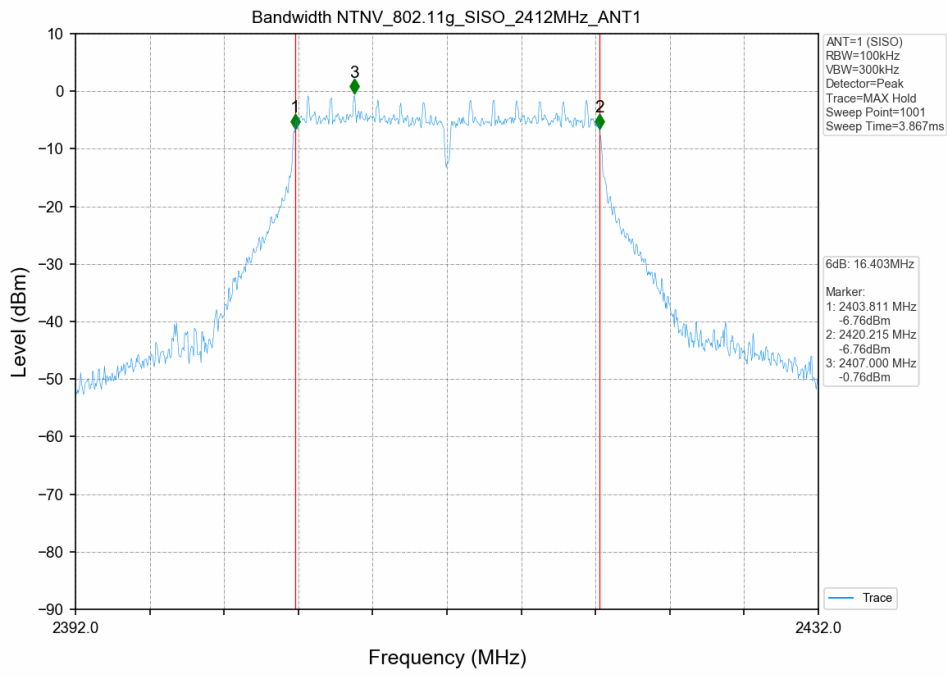
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	Verdict
				Test Result (MHz)	
802.11b	2412	SISO	1	13.265	Only for Report Use
	2437	SISO	1	13.191	Only for Report Use
	2462	SISO	1	13.333	Only for Report Use
802.11g	2412	SISO	1	17.056	Only for Report Use
	2437	SISO	1	17.078	Only for Report Use
	2462	SISO	1	17.100	Only for Report Use
802.11n(HT20)	2412	SISO	1	18.044	Only for Report Use
	2437	SISO	1	18.006	Only for Report Use
	2462	SISO	1	18.066	Only for Report Use

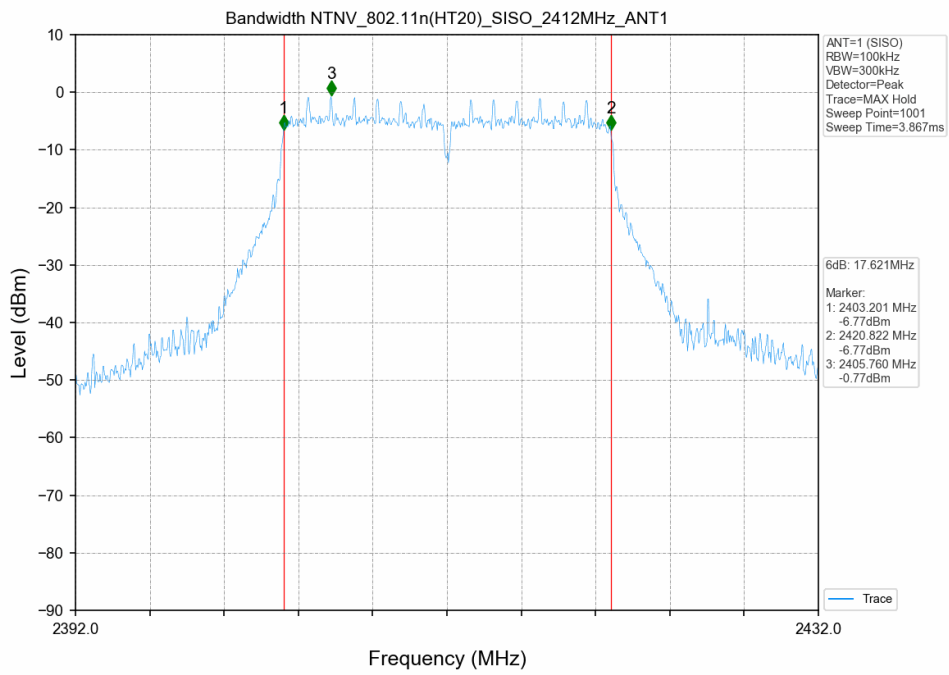
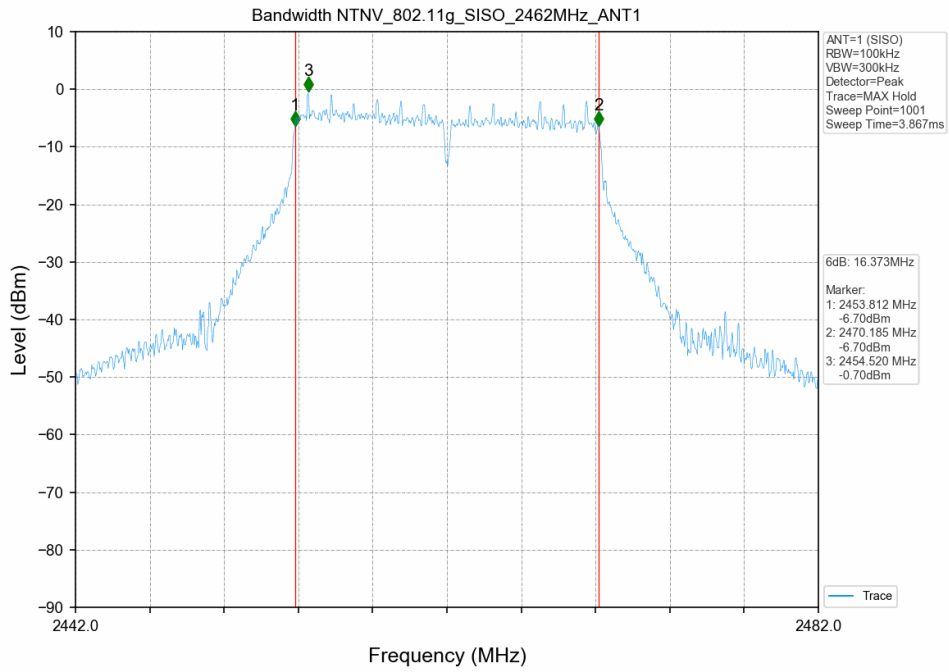
802.11n(HT40)	2422	SISO	1	36.933	Only for Report Use
	2437	SISO	1	36.563	Only for Report Use
	2452	SISO	1	36.449	Only for Report Use

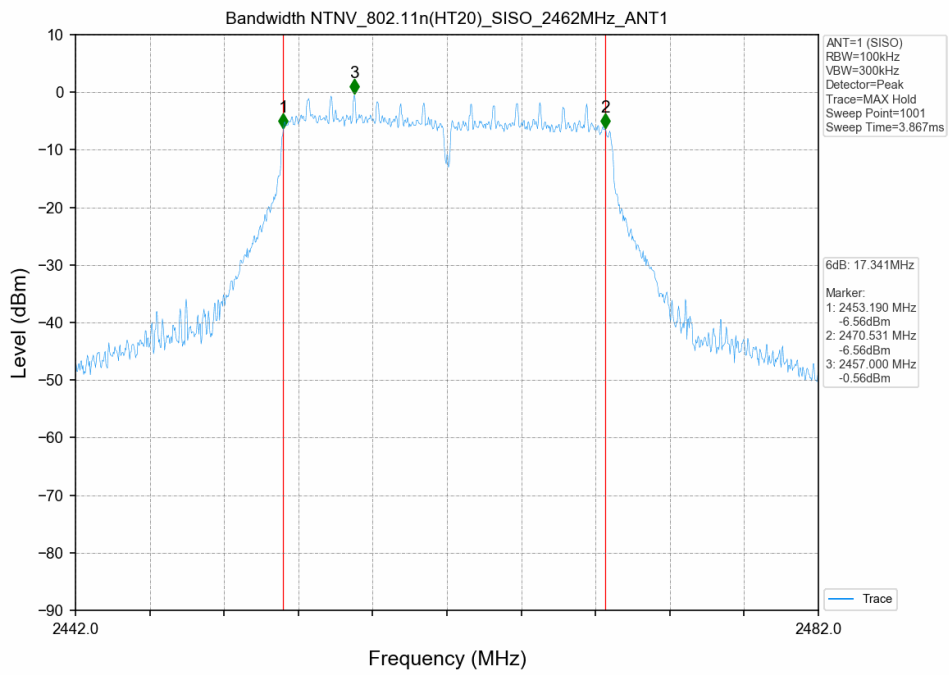
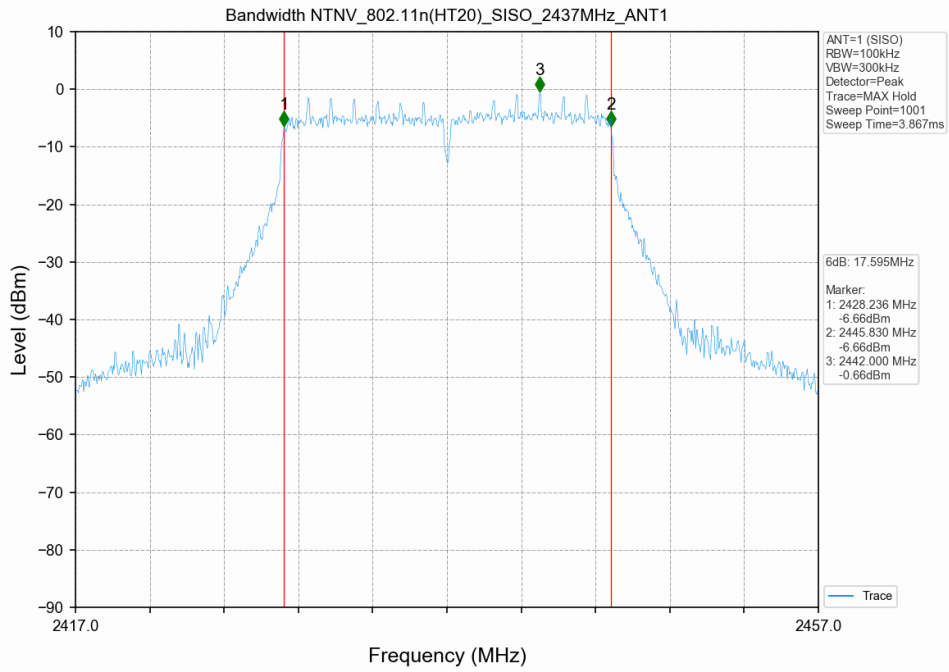
2.2 Test Graph - 6dB Bandwidth

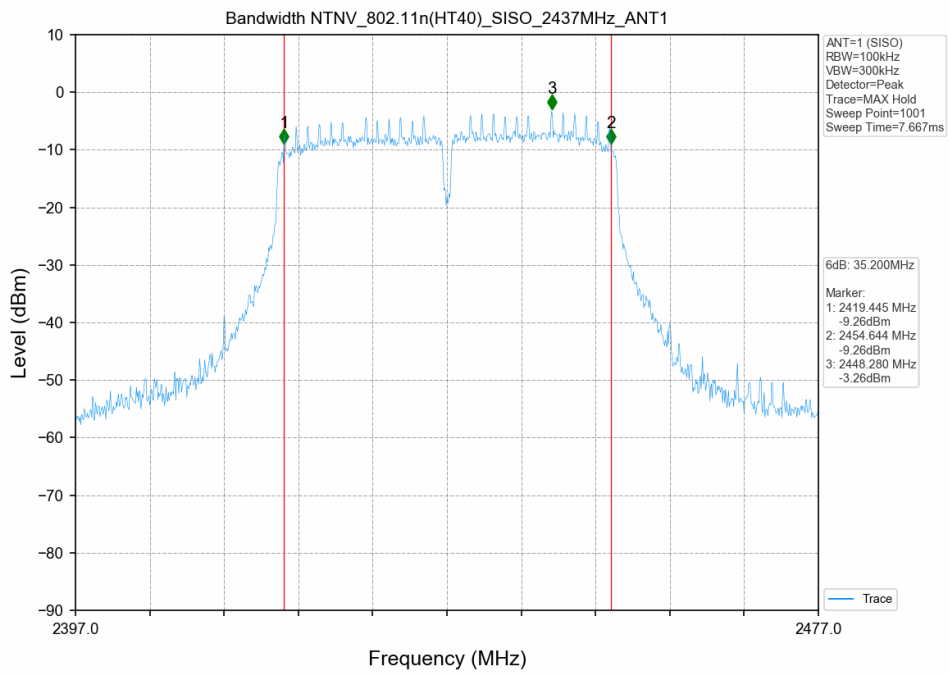
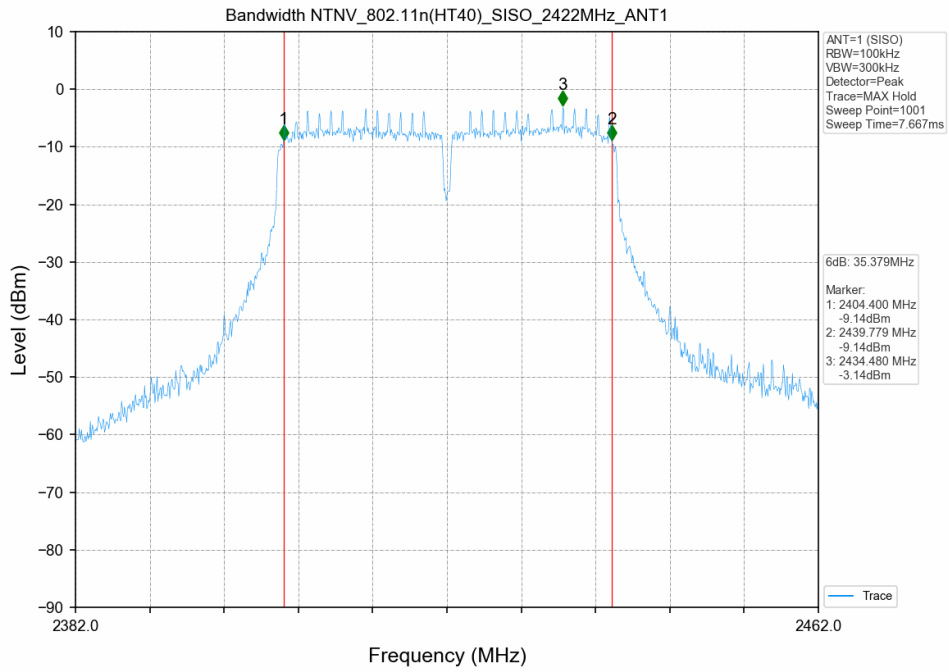


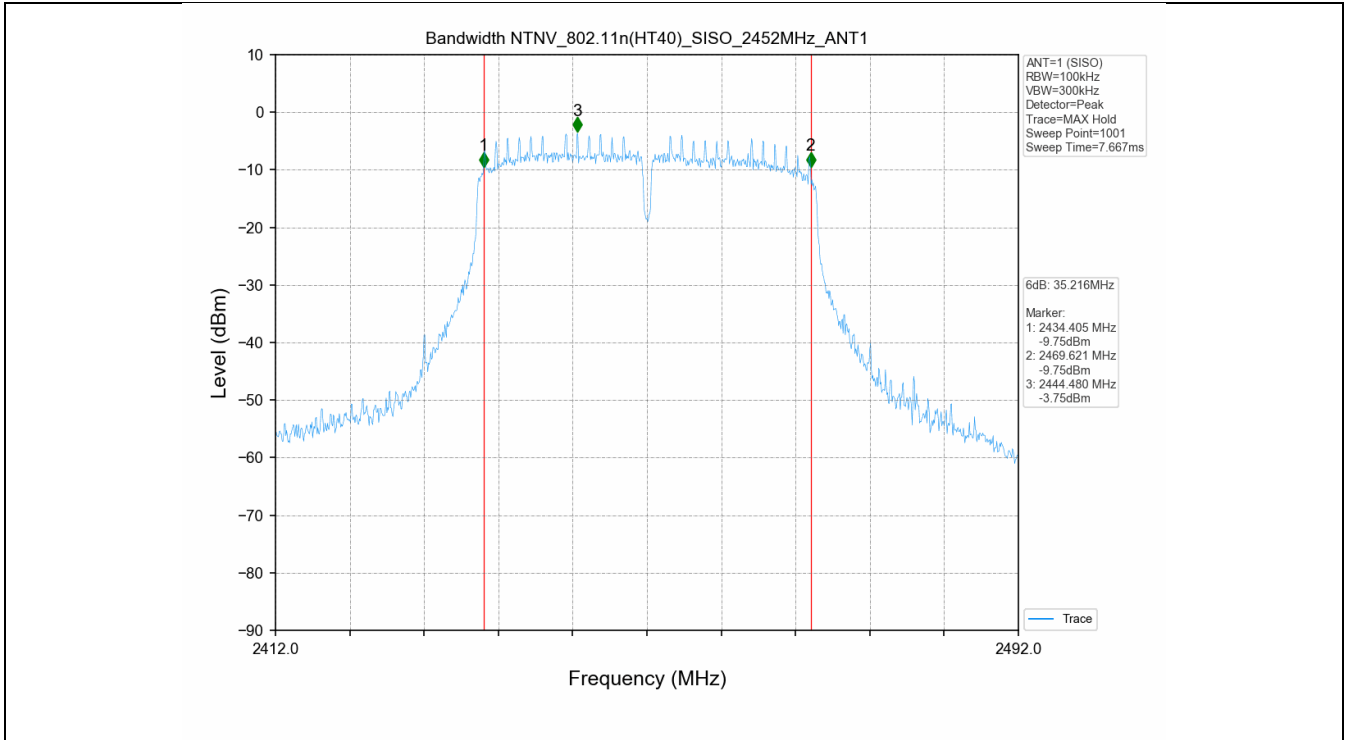




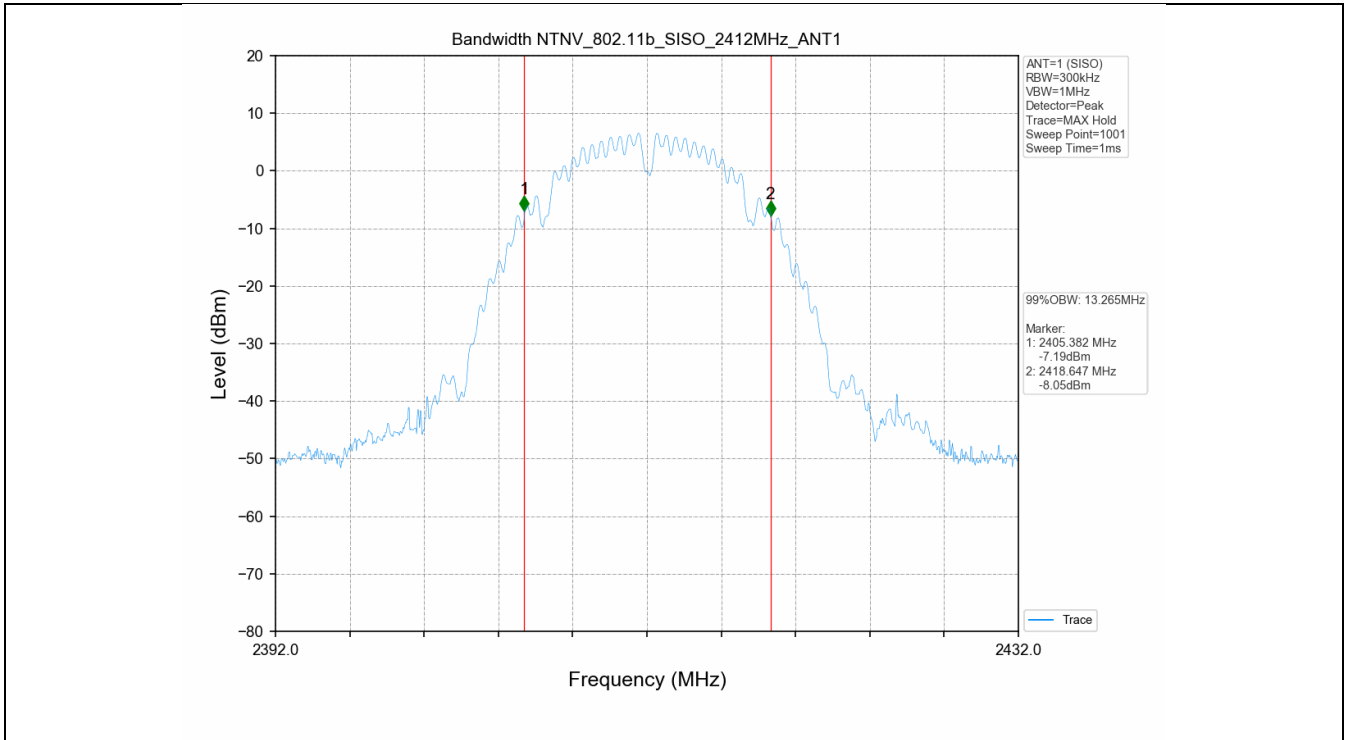


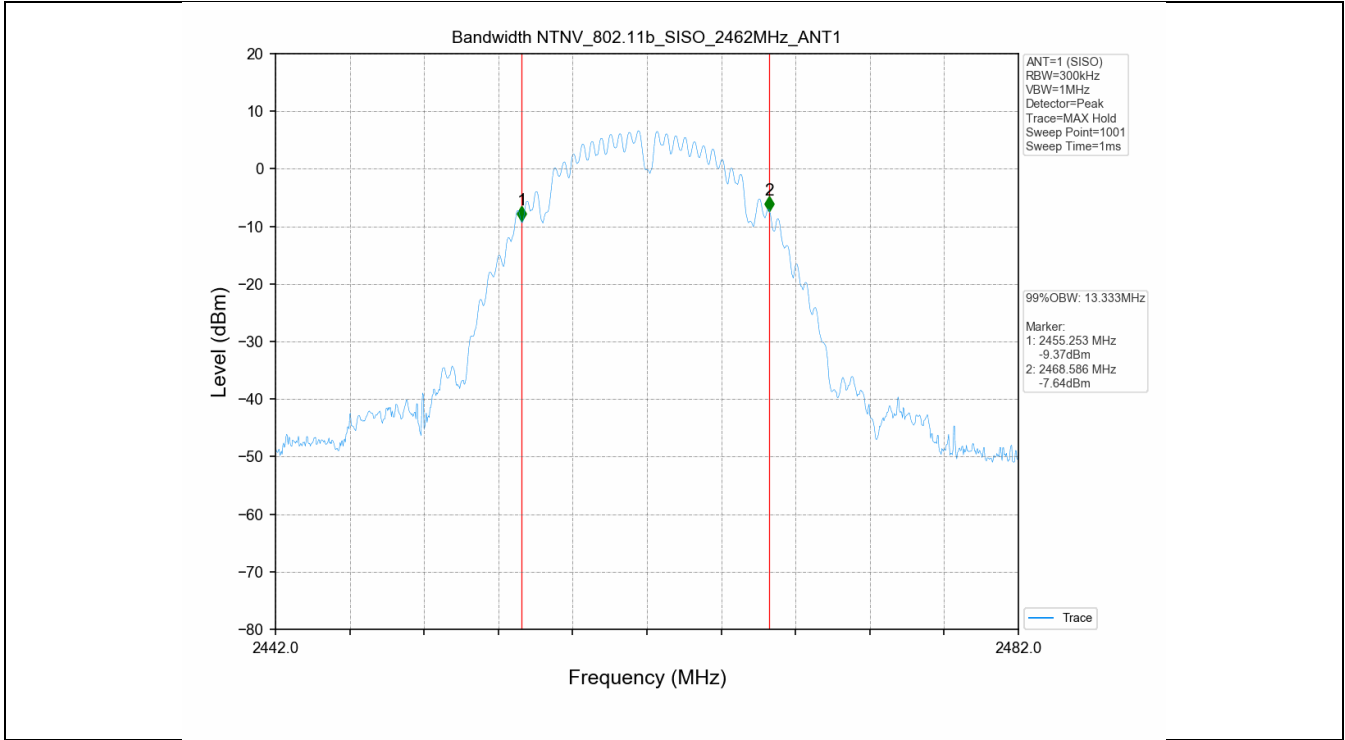
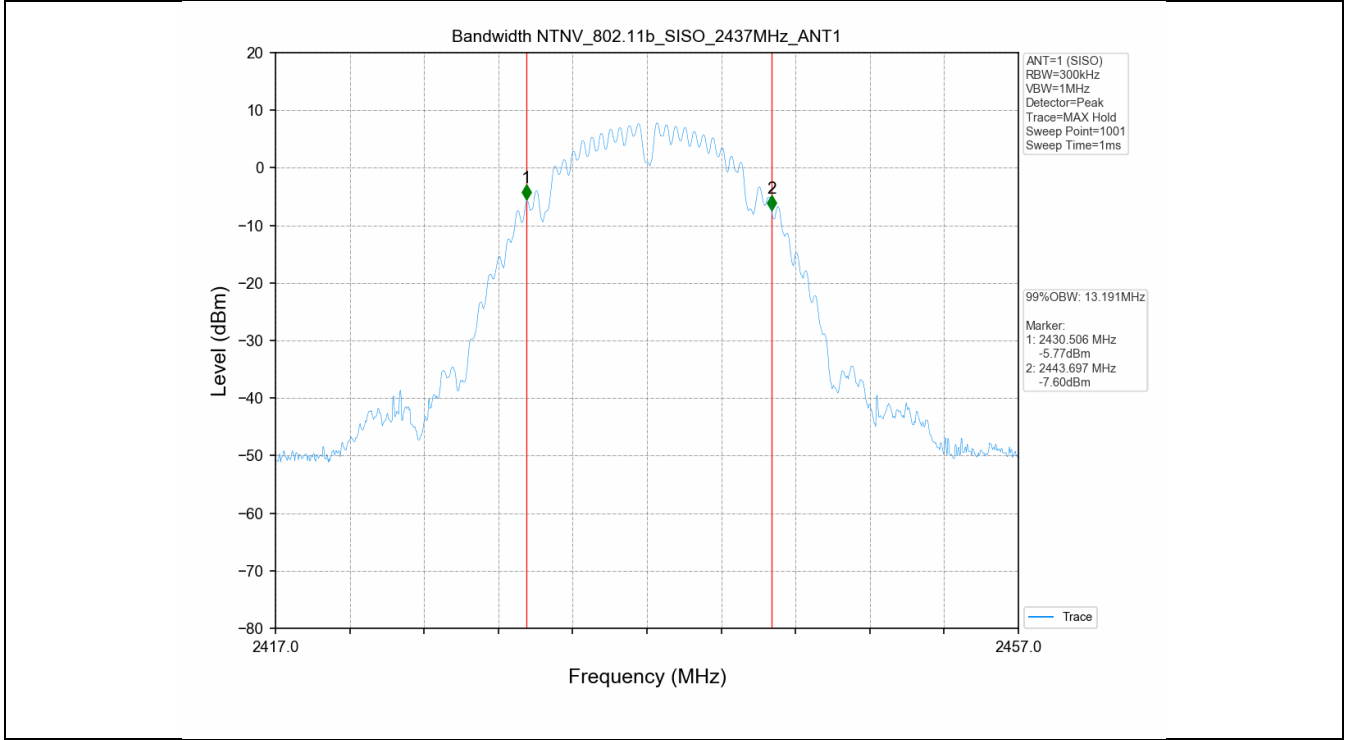


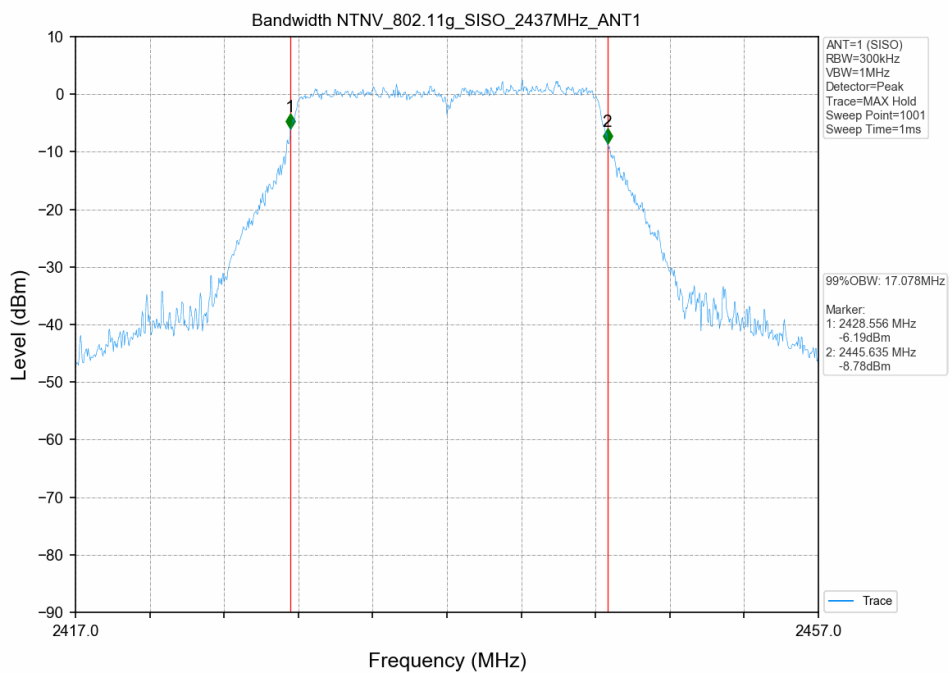
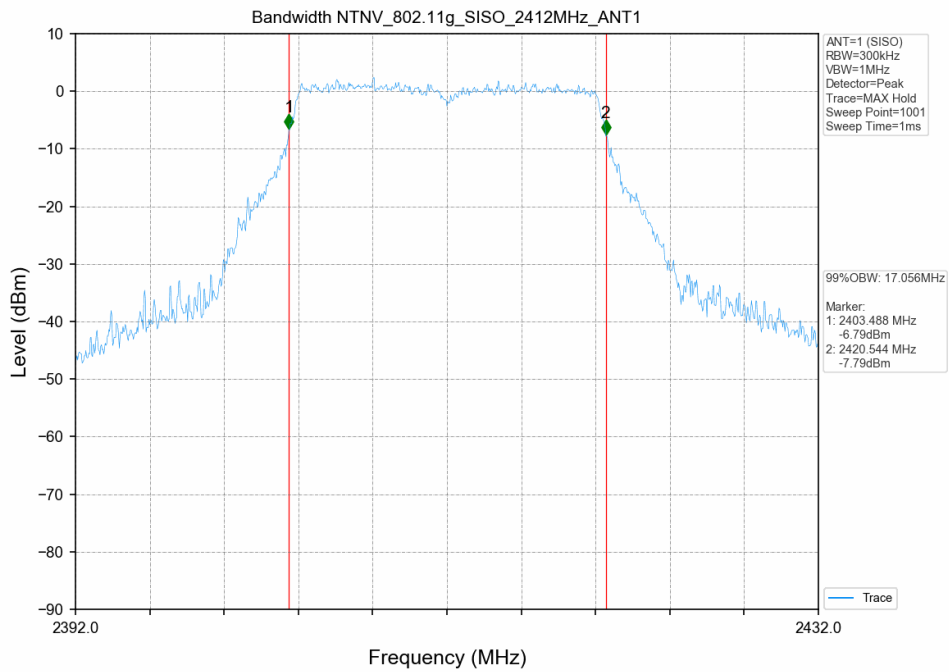


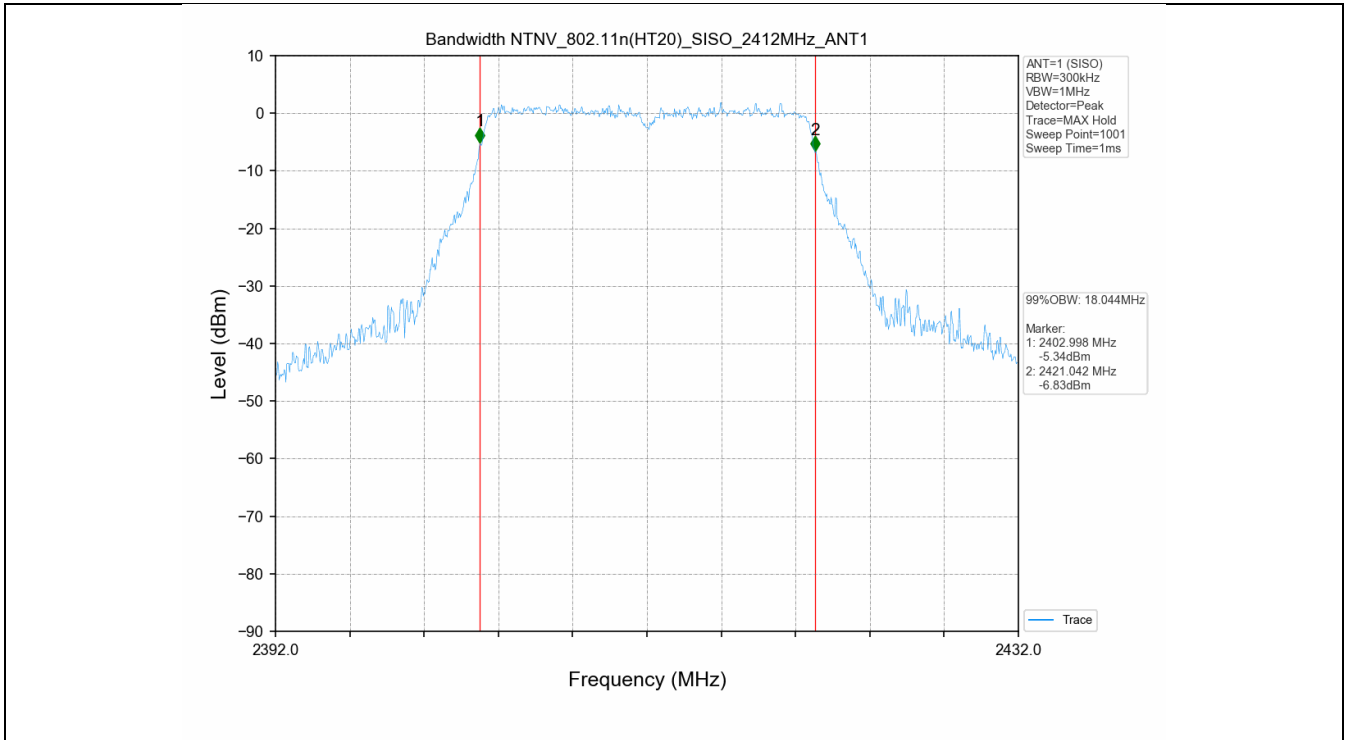
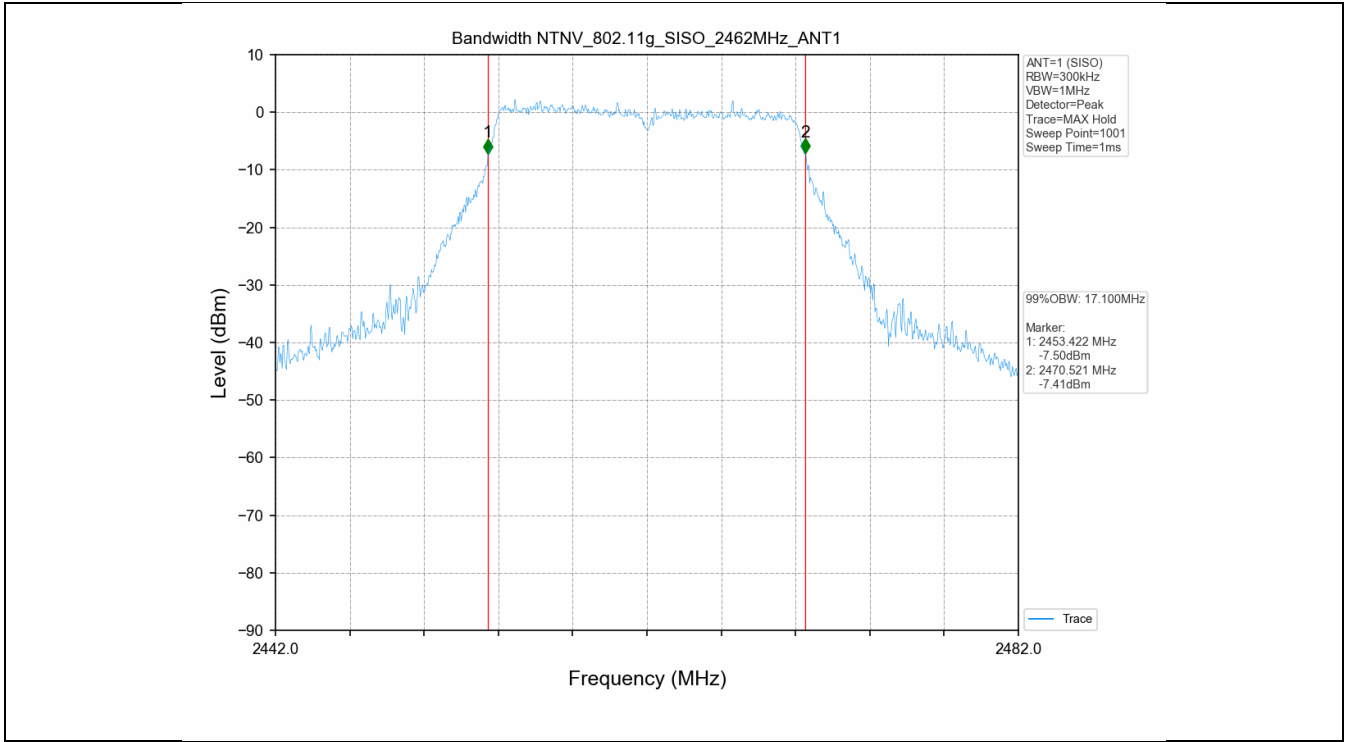


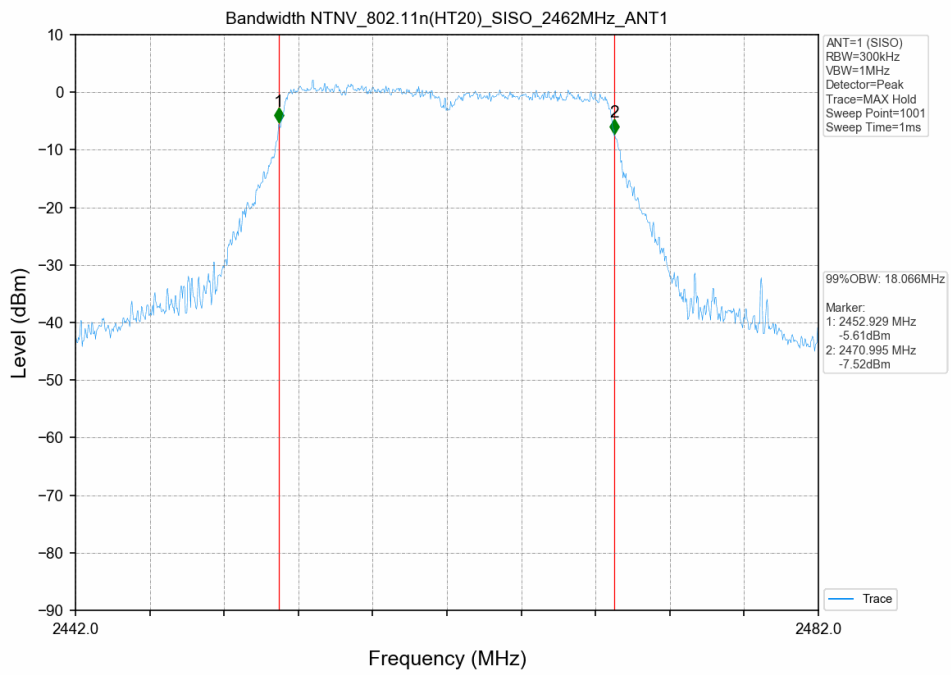
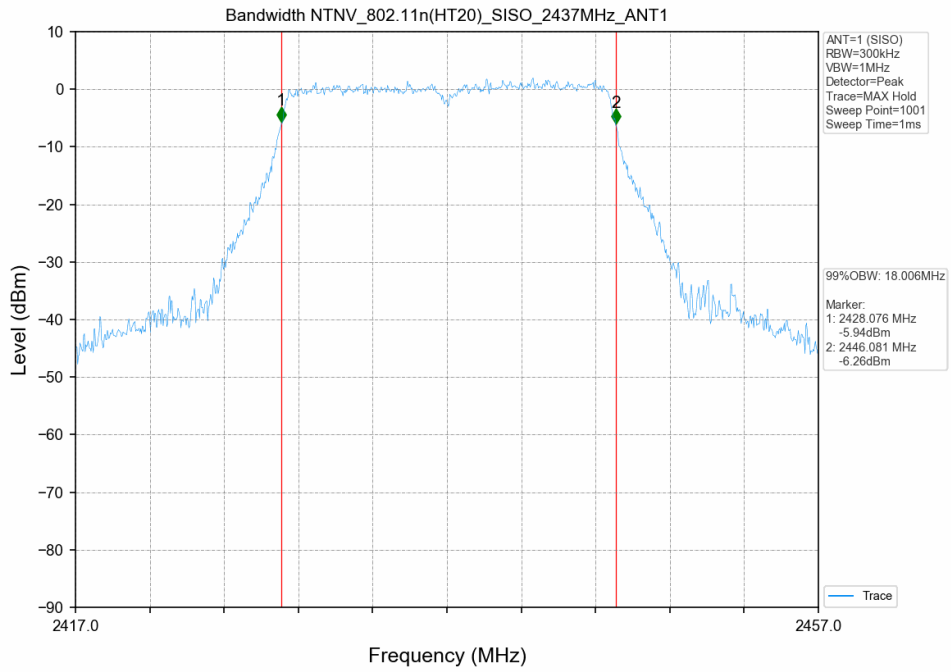
2.3 Test Graph - 99% Occupied Bandwidth

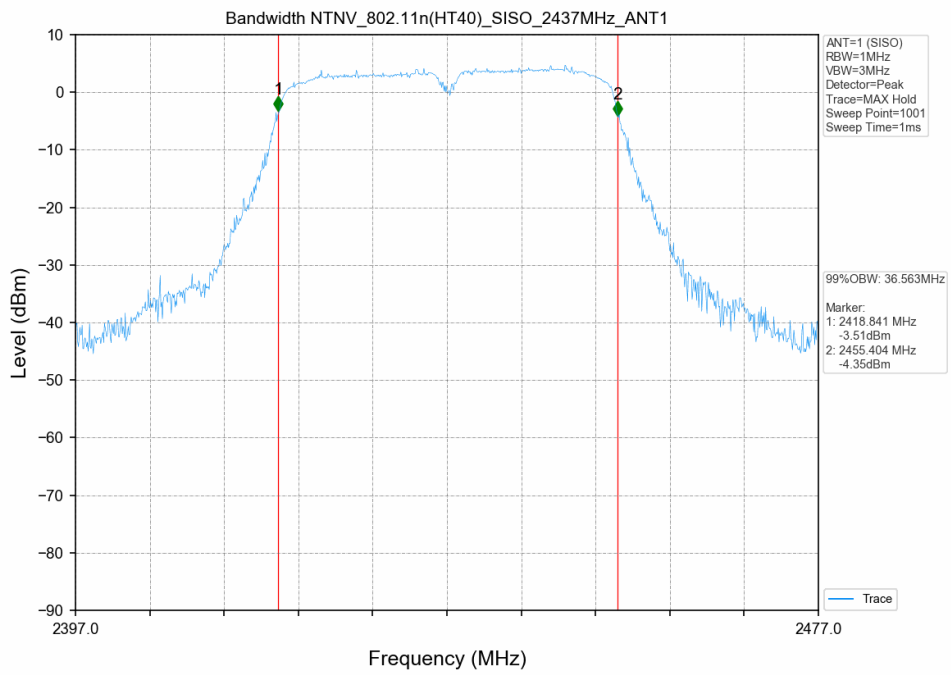
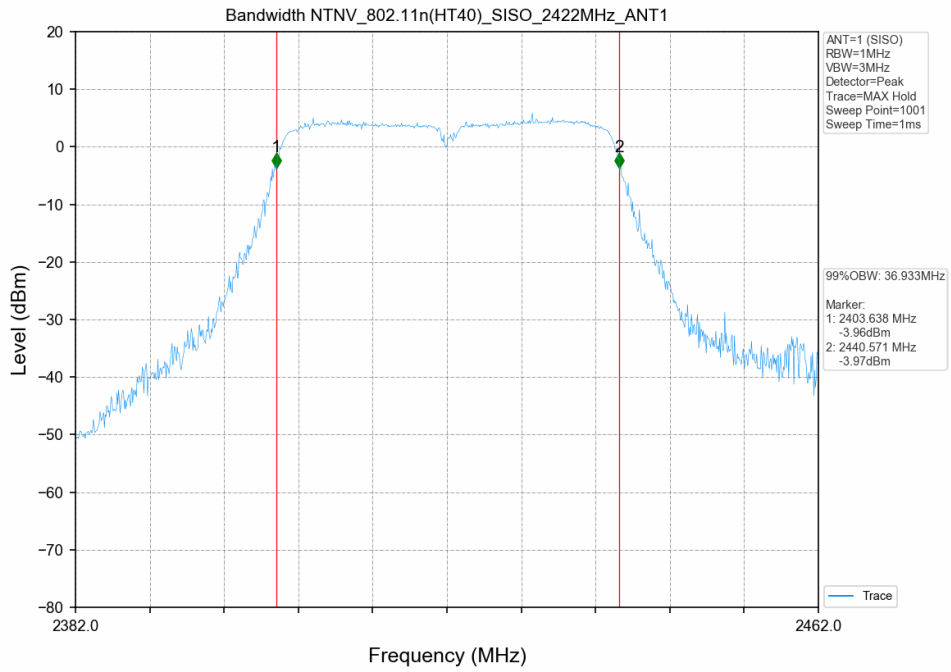


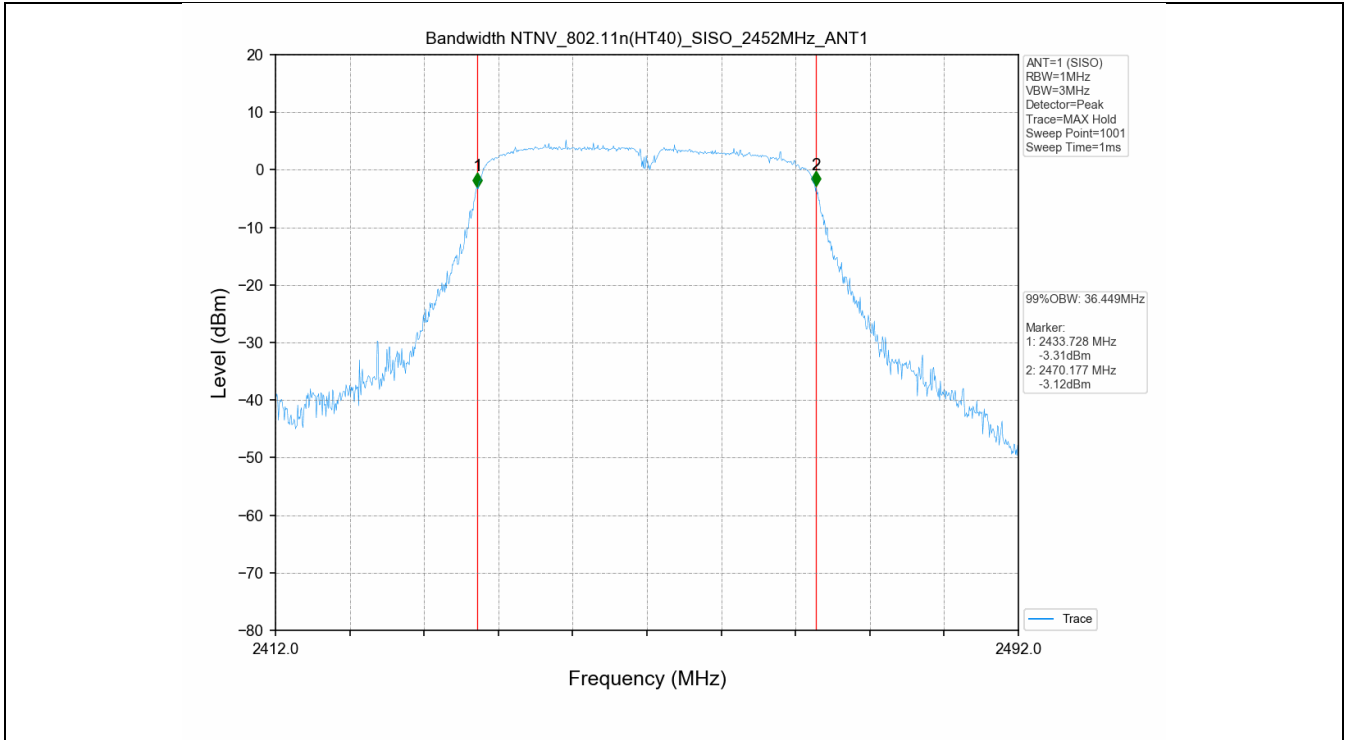










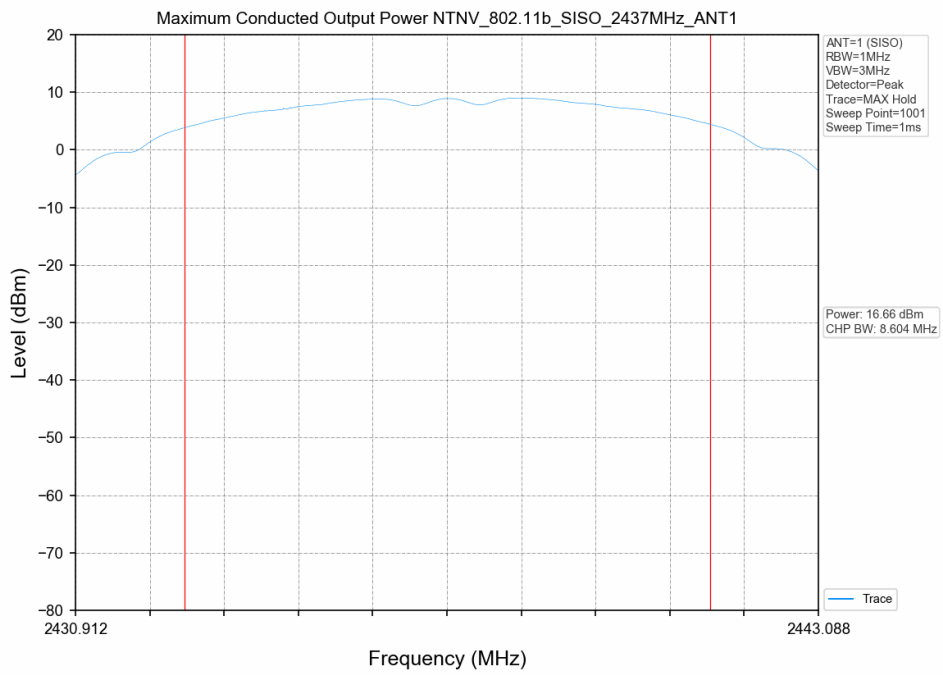
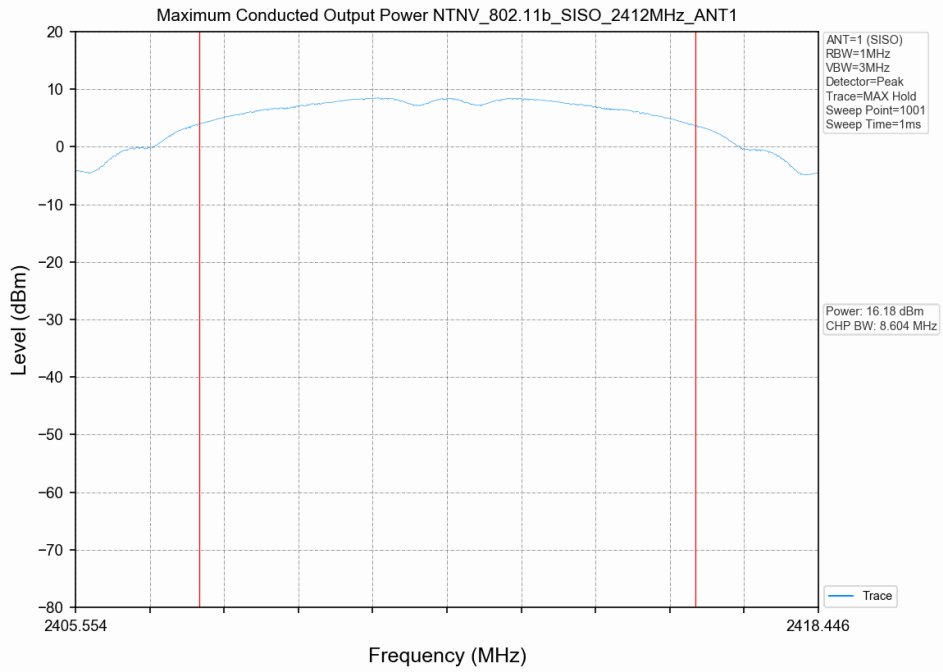


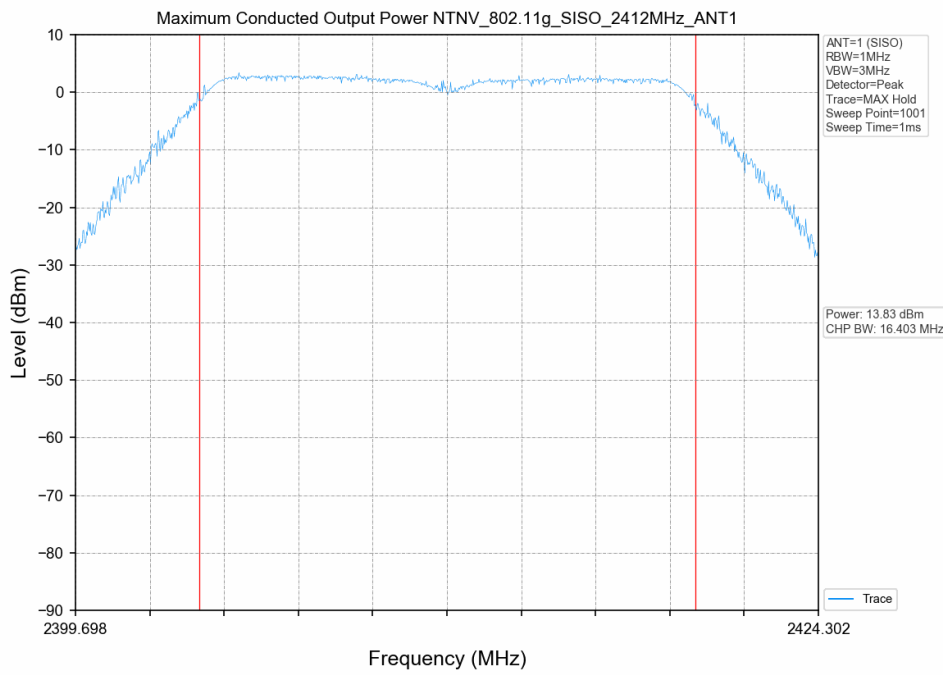
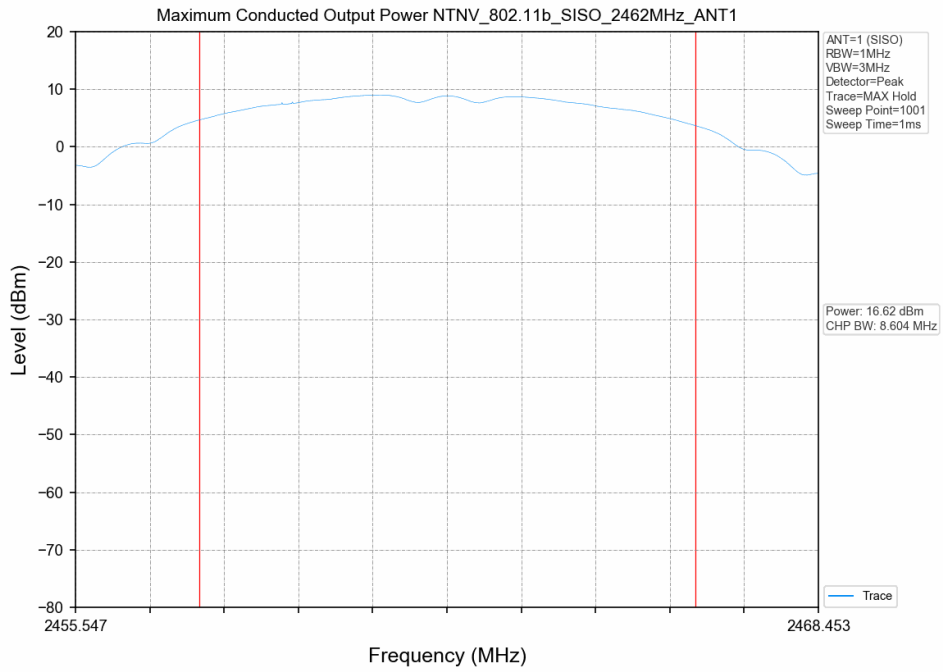
3. Maximum Conducted Output Power

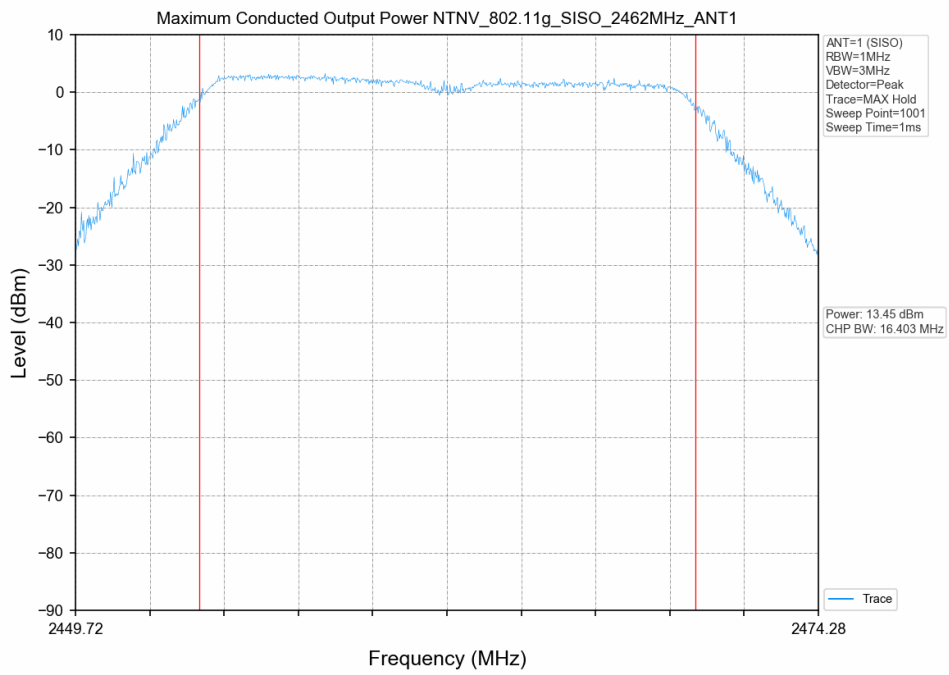
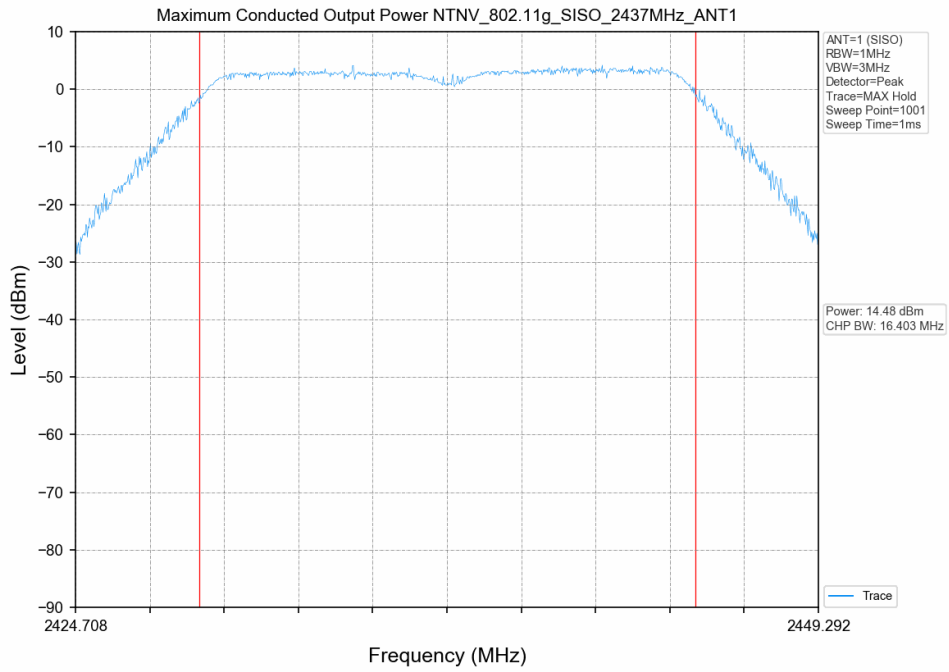
3.1 Test Result

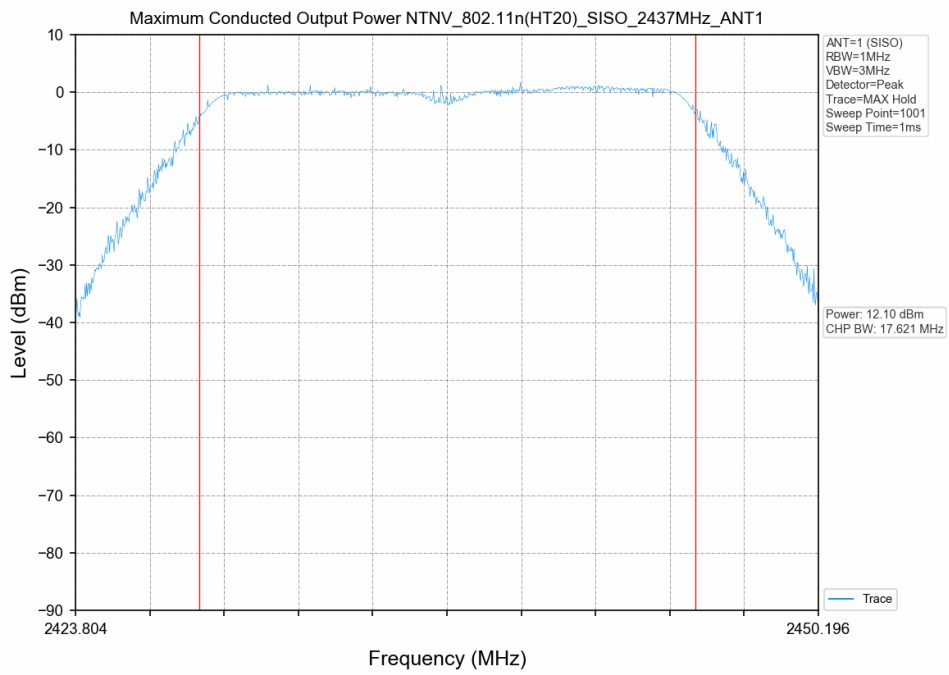
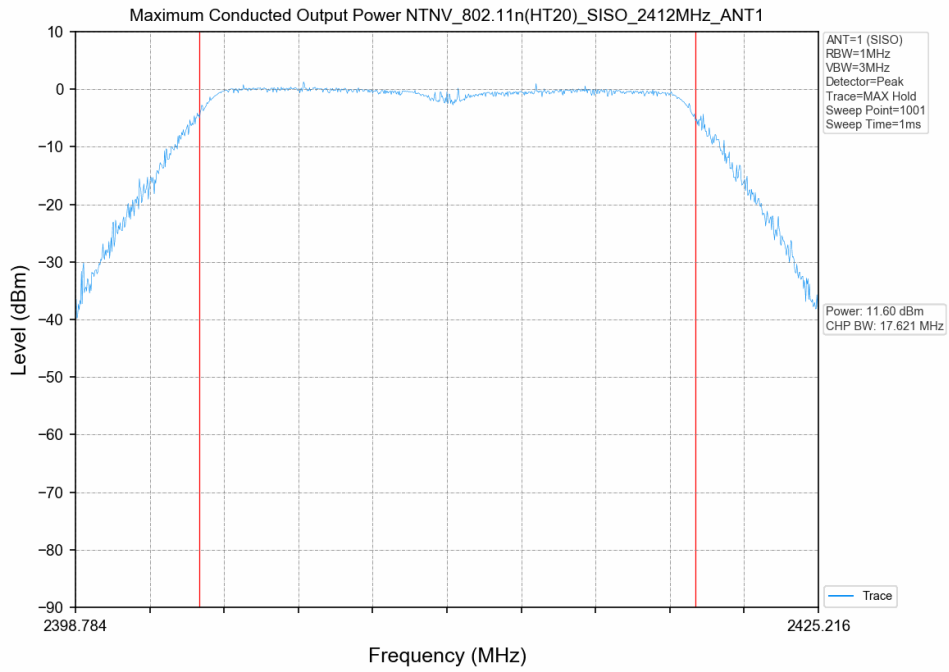
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	16.18	30	PASS
	2437	SISO	16.66	30	PASS
	2462	SISO	16.62	30	PASS
802.11g	2412	SISO	13.83	30	PASS
	2437	SISO	14.48	30	PASS
	2462	SISO	13.45	30	PASS
802.11n(HT20)	2412	SISO	11.60	30	PASS
	2437	SISO	12.10	30	PASS
	2462	SISO	11.34	30	PASS
802.11n(HT40)	2422	SISO	11.63	30	PASS
	2437	SISO	12.00	30	PASS
	2452	SISO	11.97	30	PASS

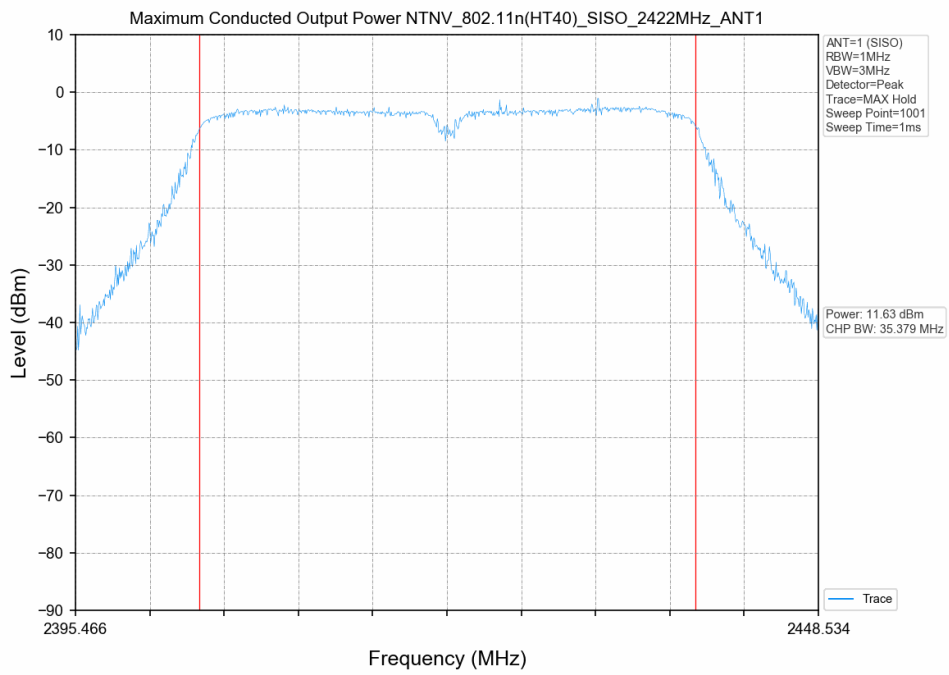
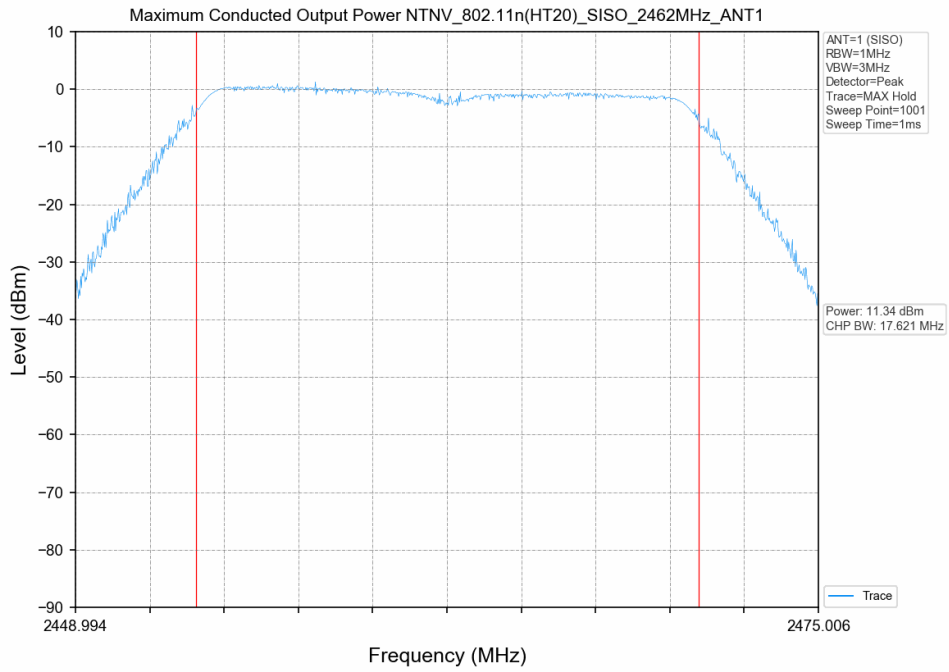
3.2 Test Graph

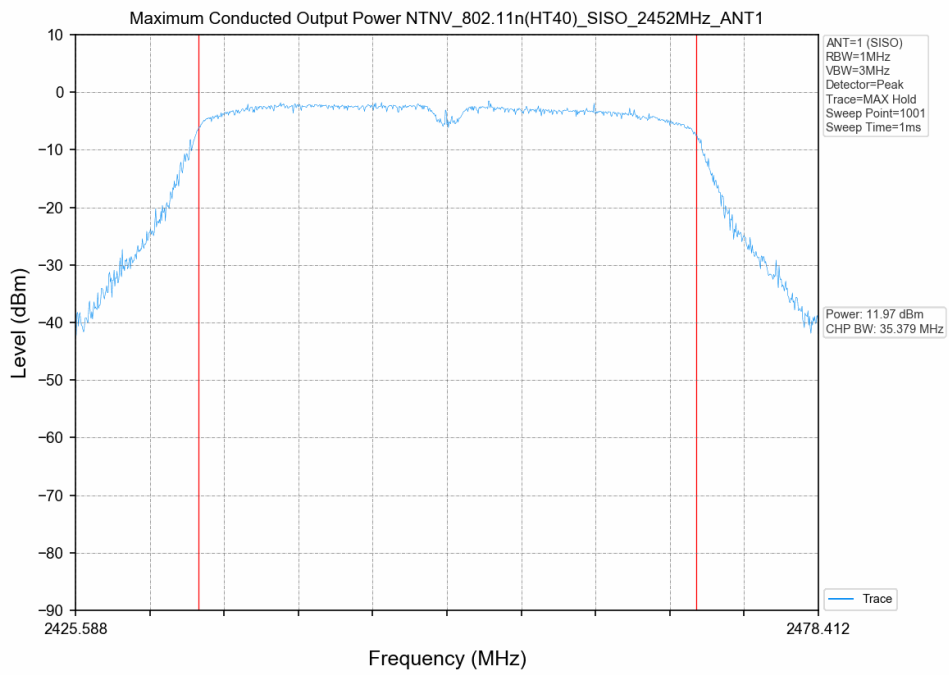
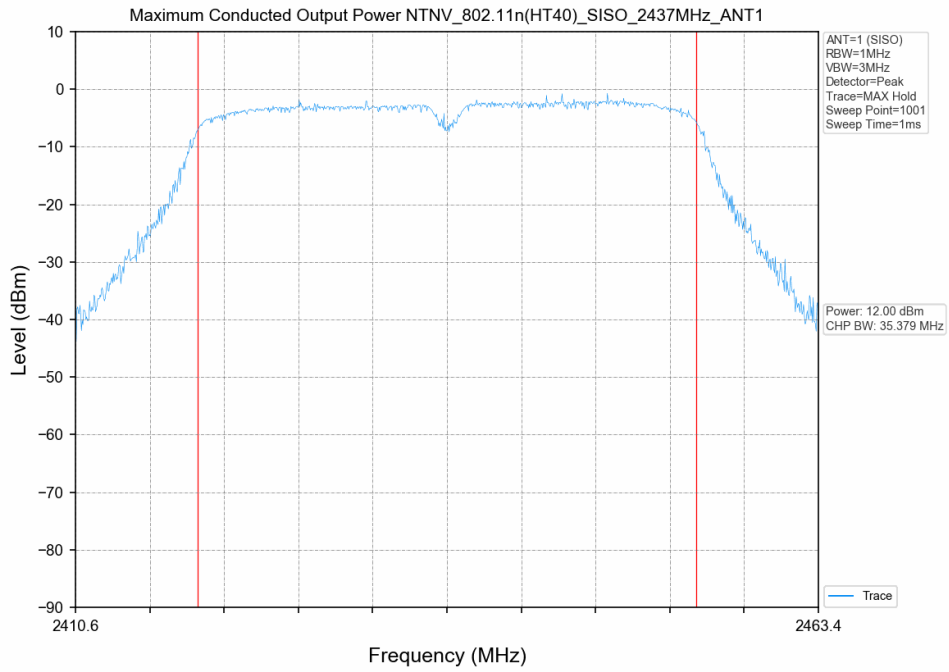










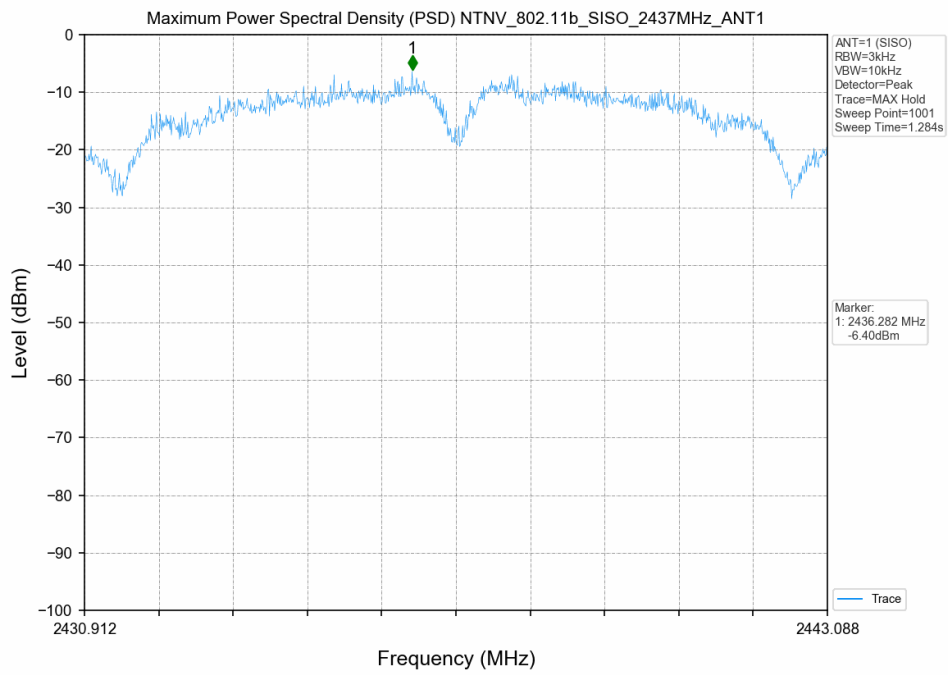
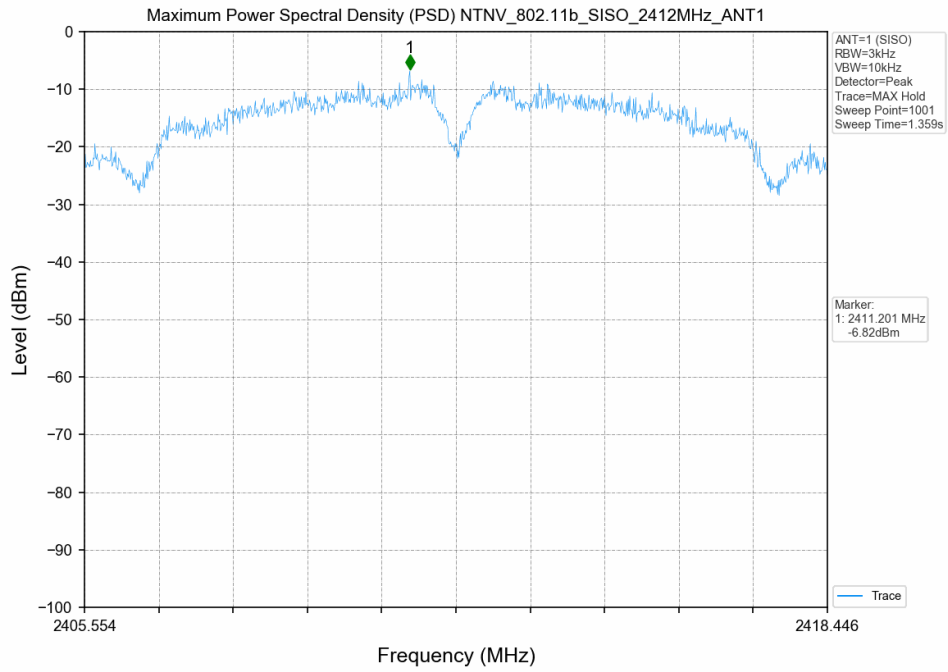


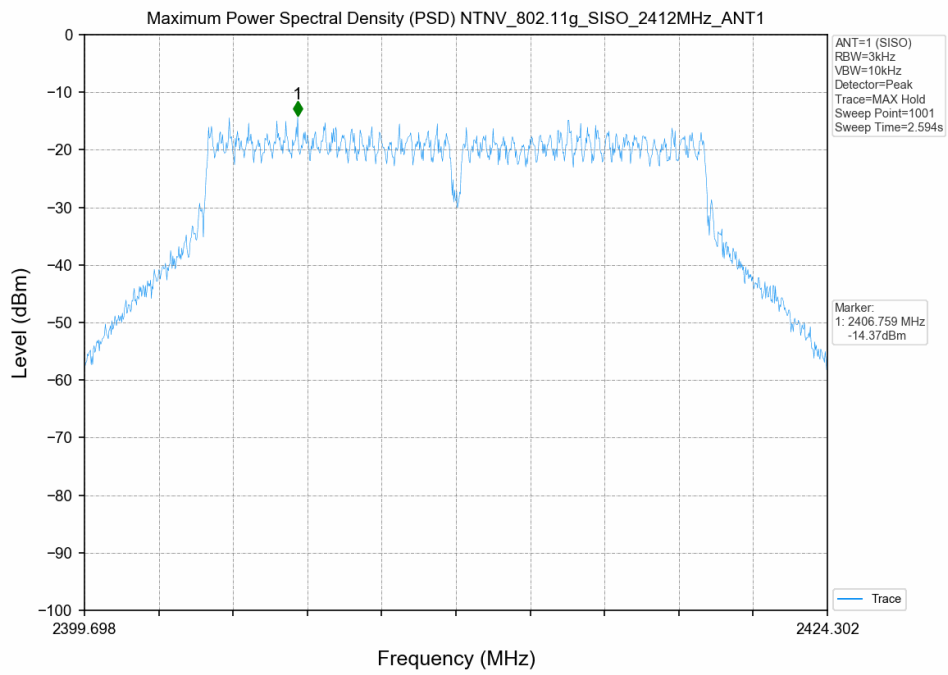
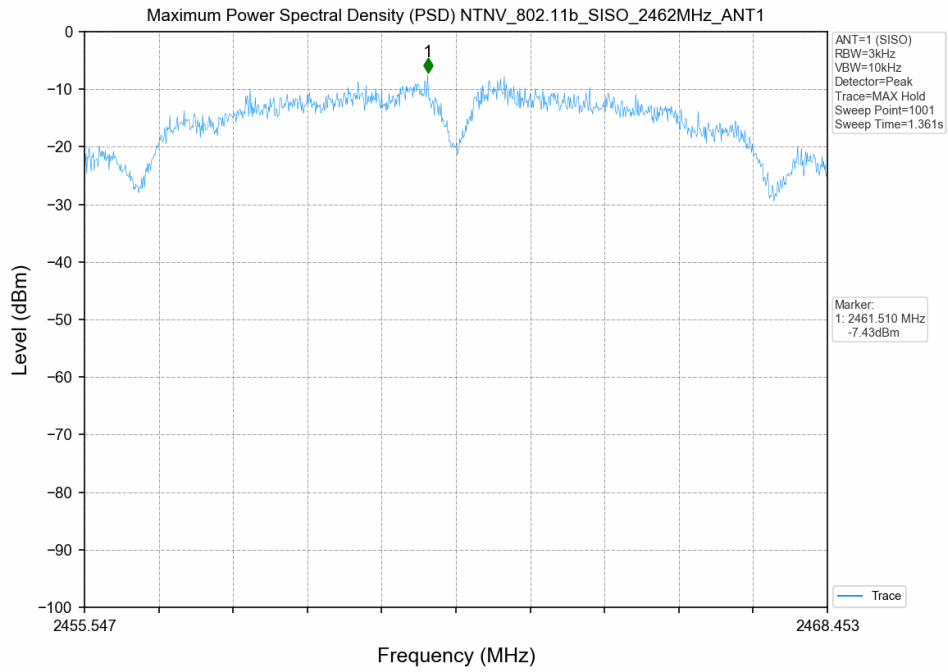
4. Maximum Power Spectral Density (PSD)

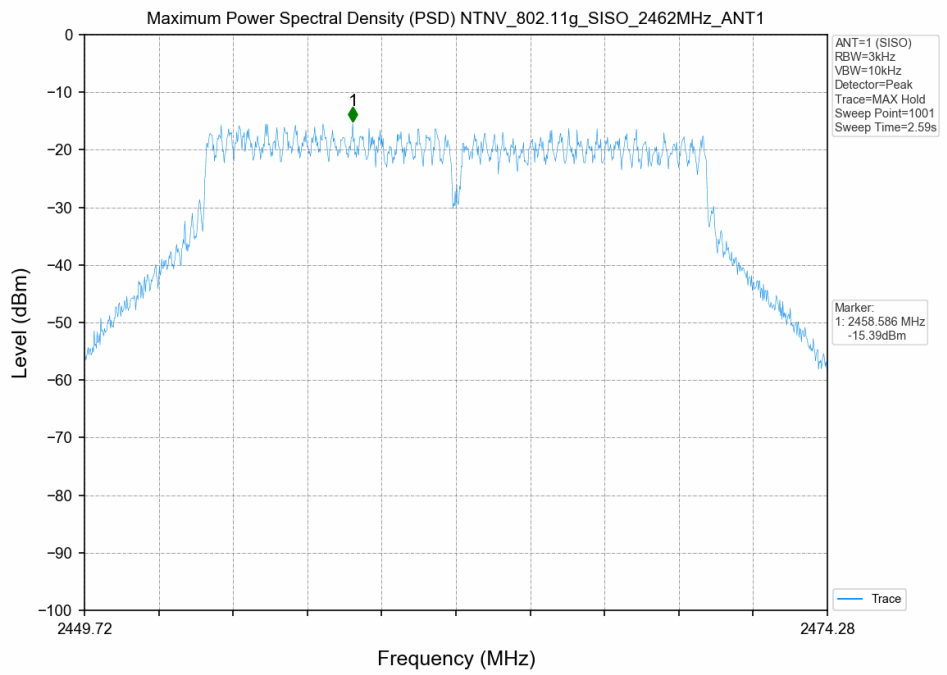
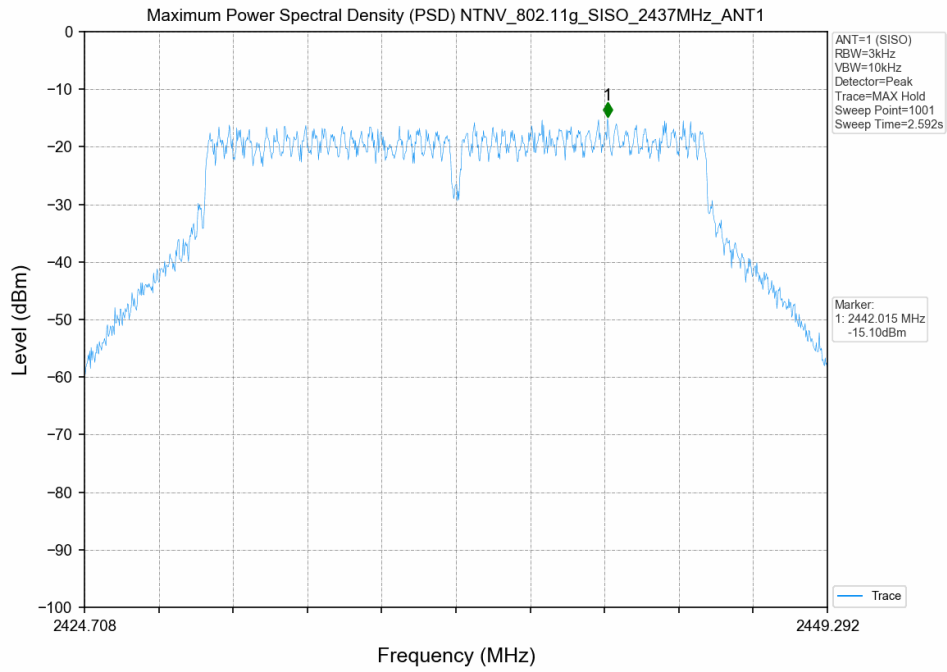
4.1 Test Result

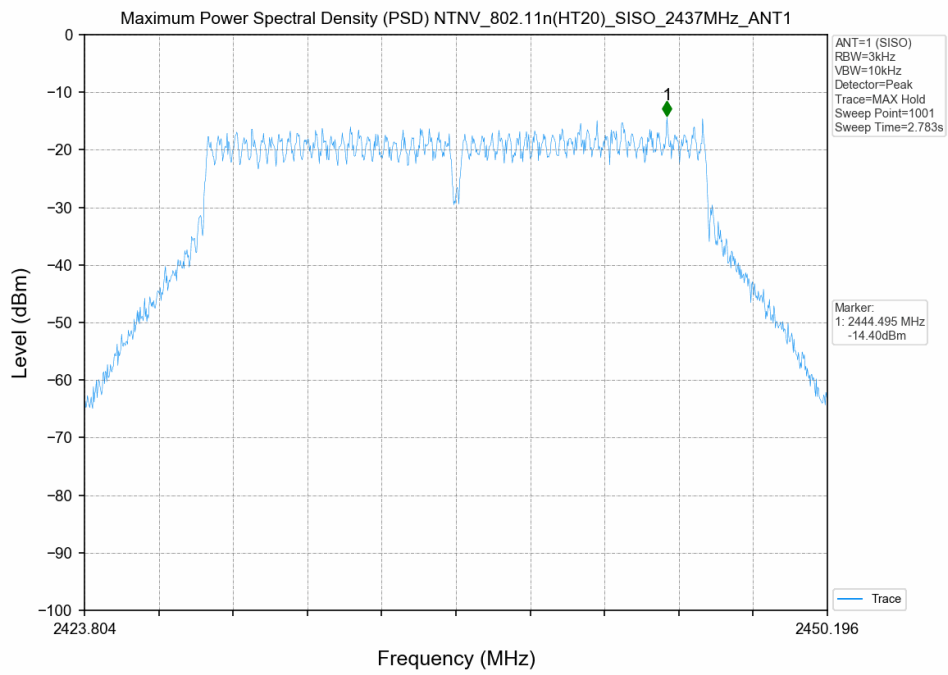
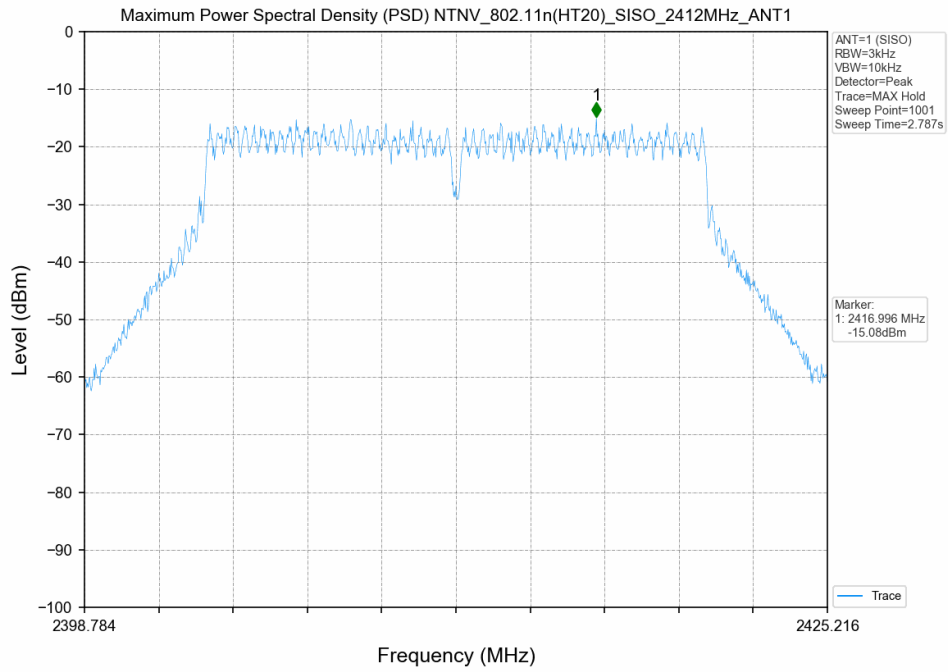
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-6.82	≤8	PASS
	2437	SISO	-6.40	≤8	PASS
	2462	SISO	-7.43	≤8	PASS
802.11g	2412	SISO	-14.37	≤8	PASS
	2437	SISO	-15.10	≤8	PASS
	2462	SISO	-15.39	≤8	PASS
802.11n(HT20)	2412	SISO	-15.08	≤8	PASS
	2437	SISO	-14.40	≤8	PASS
	2462	SISO	-14.27	≤8	PASS
802.11n(HT40)	2422	SISO	-17.55	≤8	PASS
	2437	SISO	-18.09	≤8	PASS
	2452	SISO	-18.06	≤8	PASS

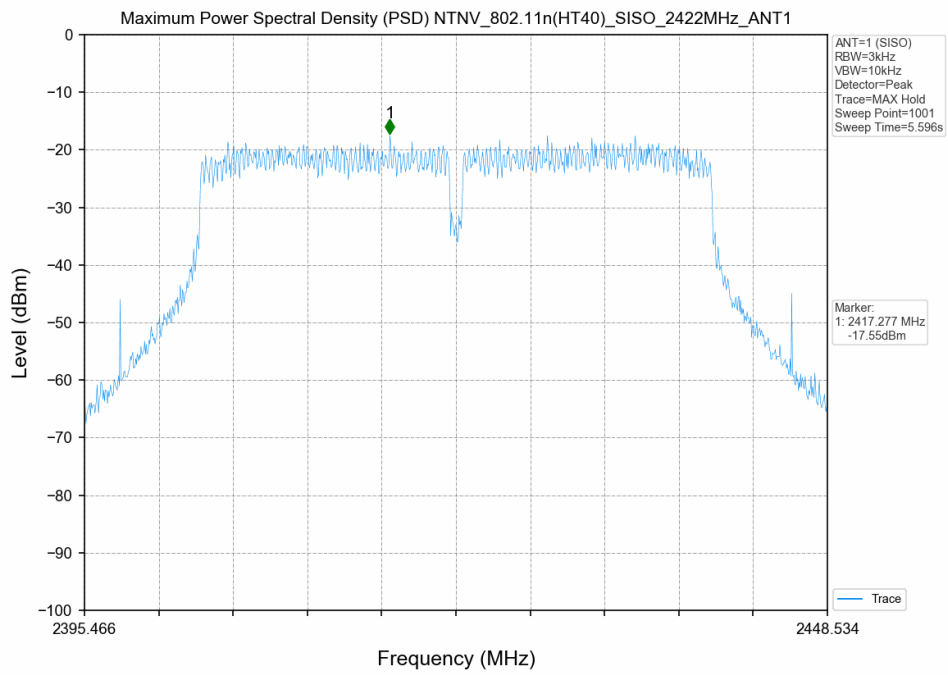
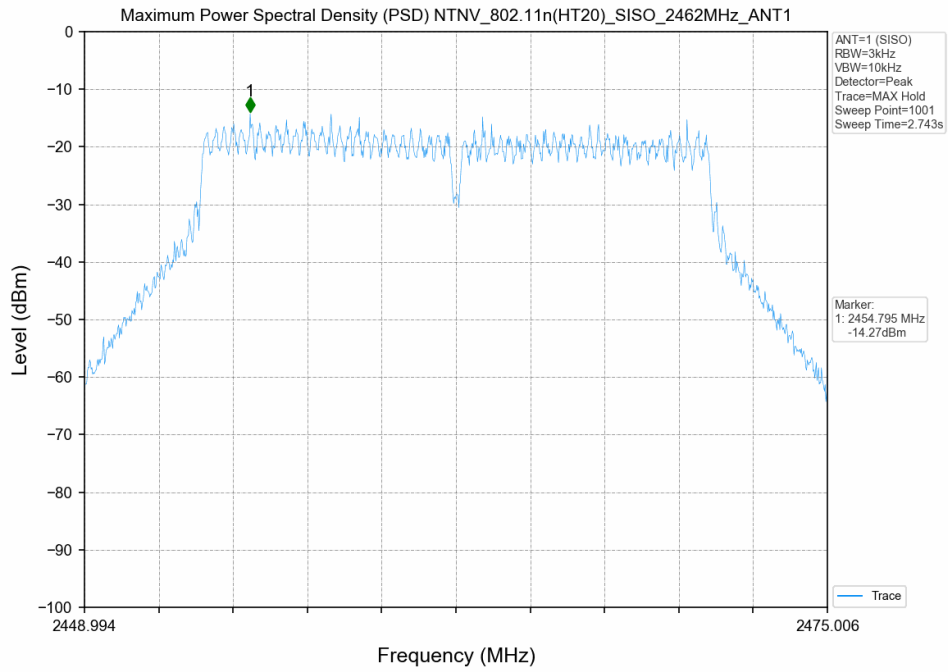
4.2 Test Graph

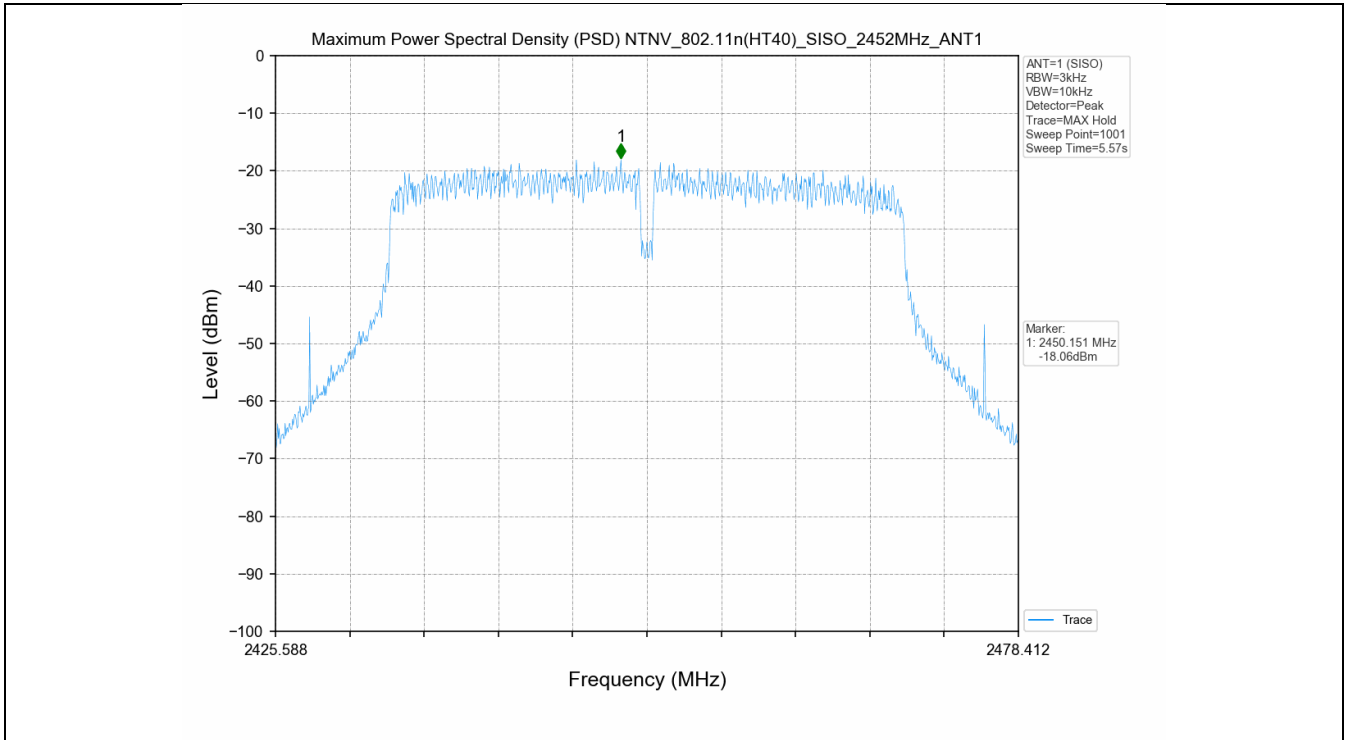
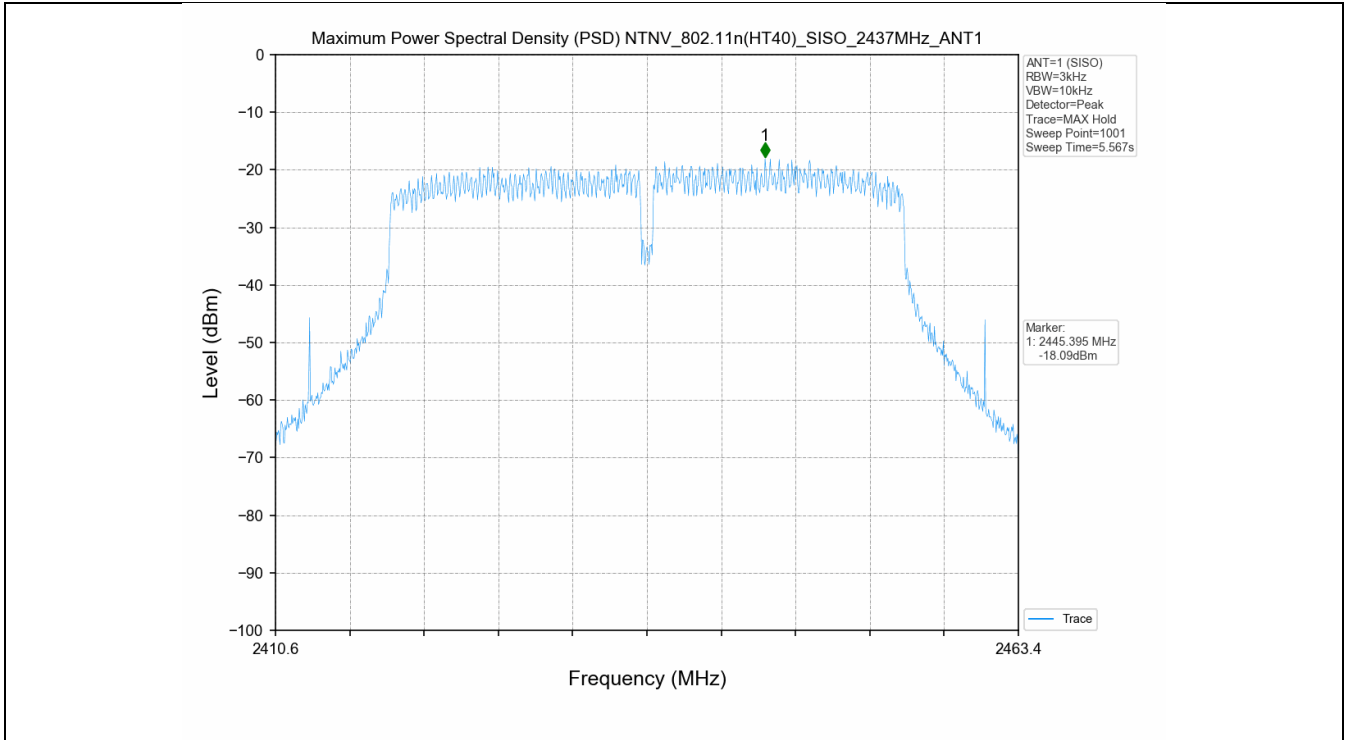










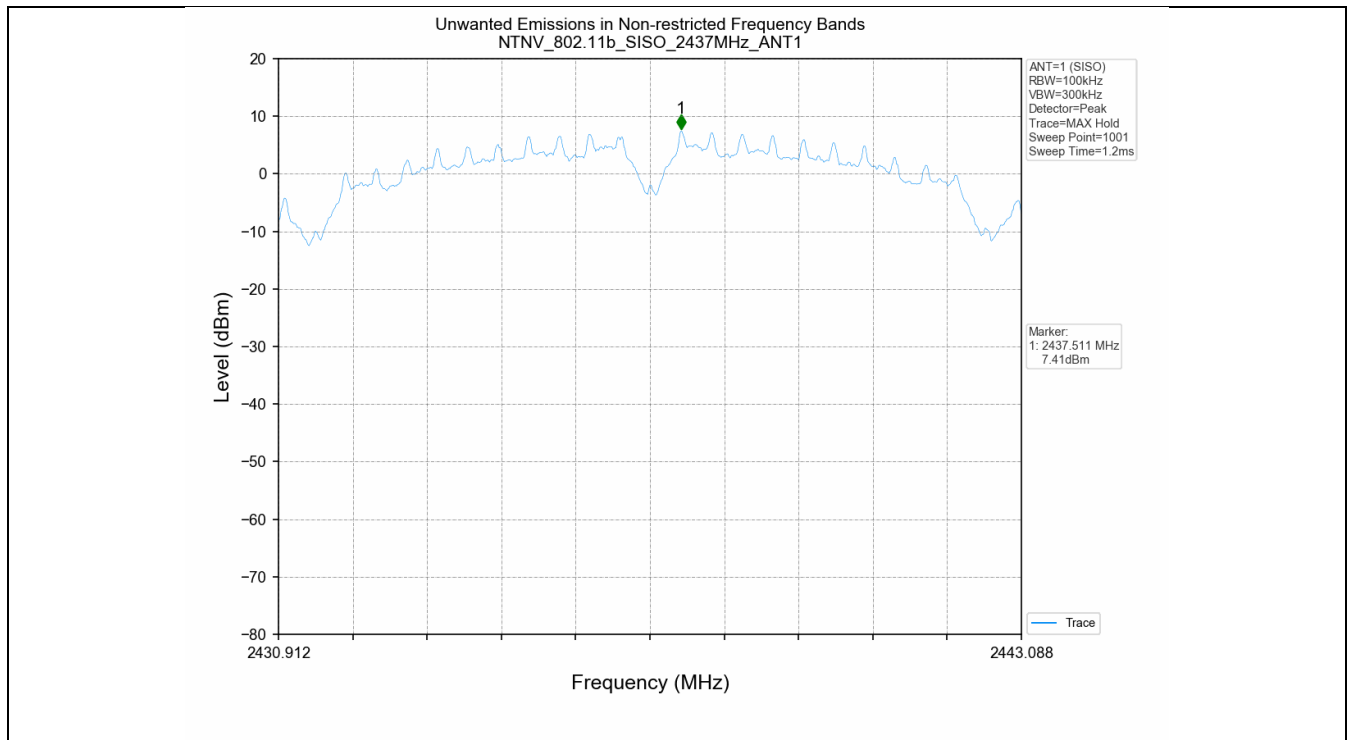


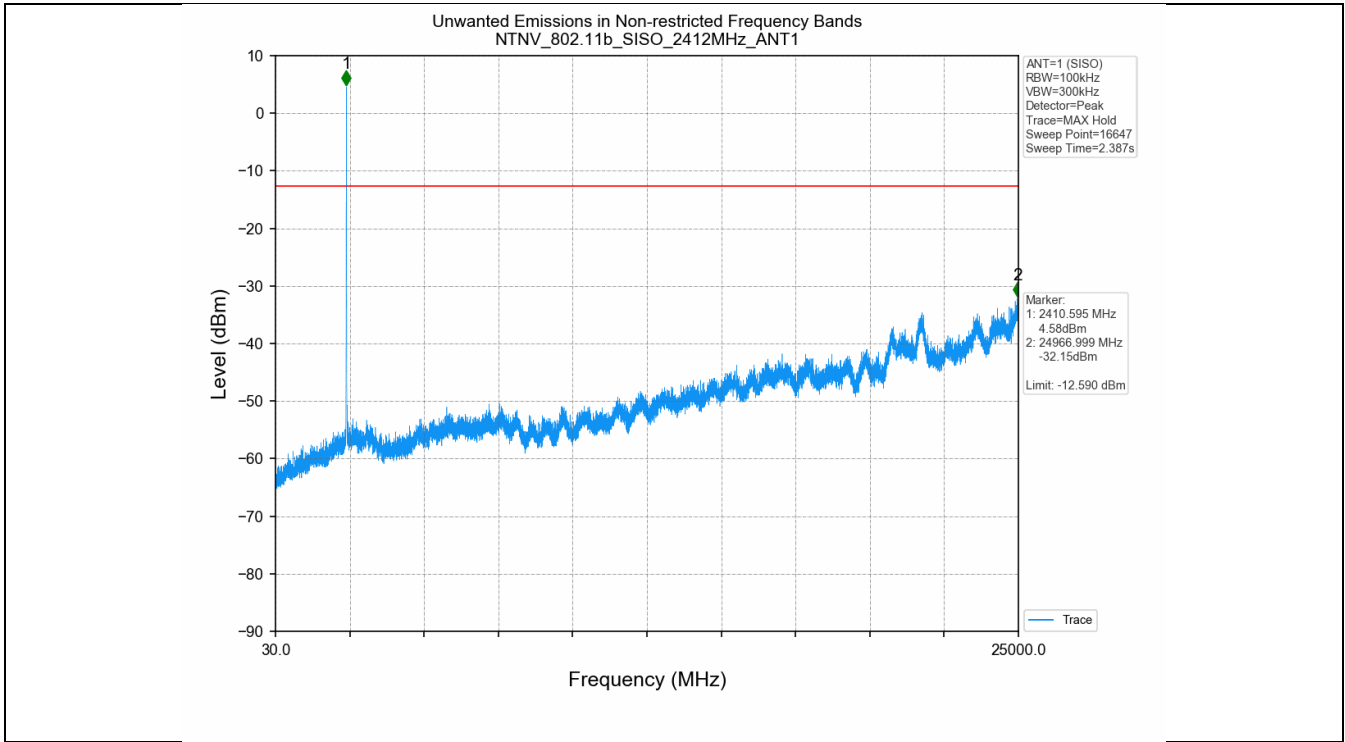
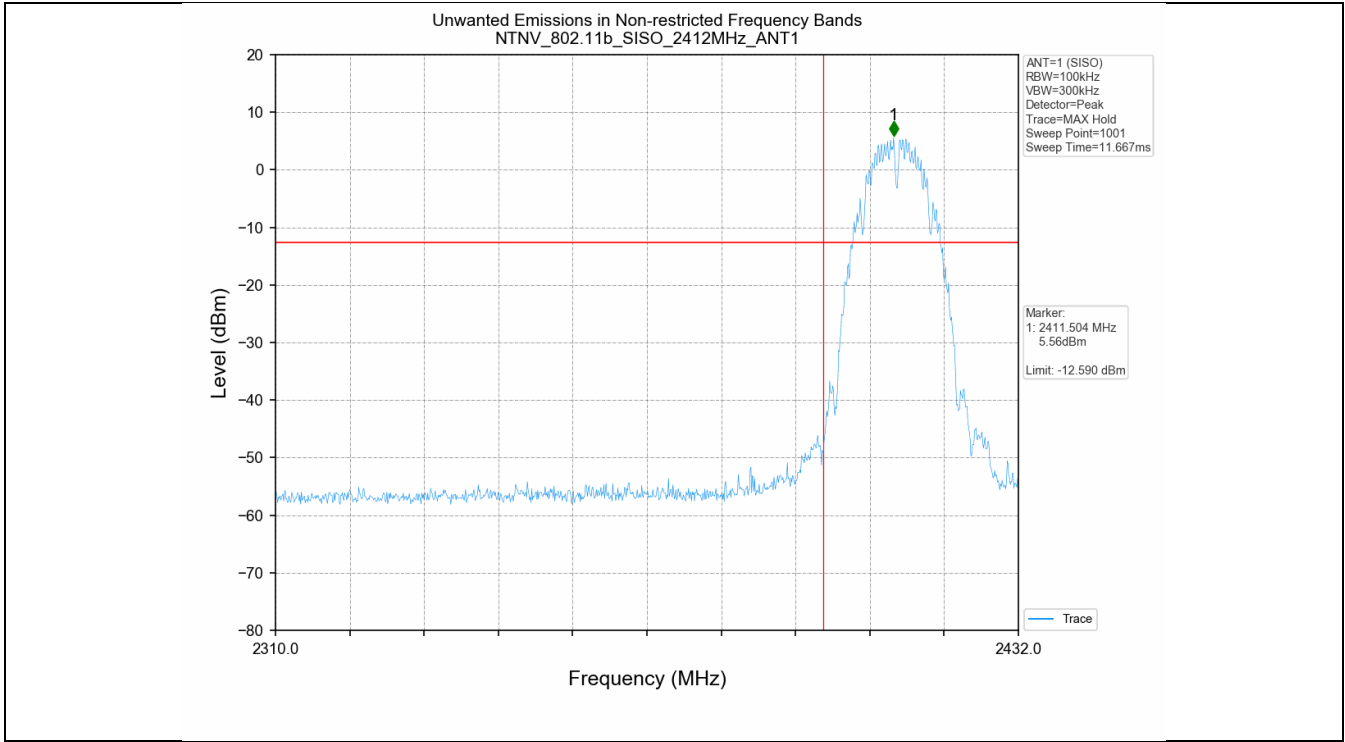
5. Unwanted Emissions in Non-restricted Frequency Bands

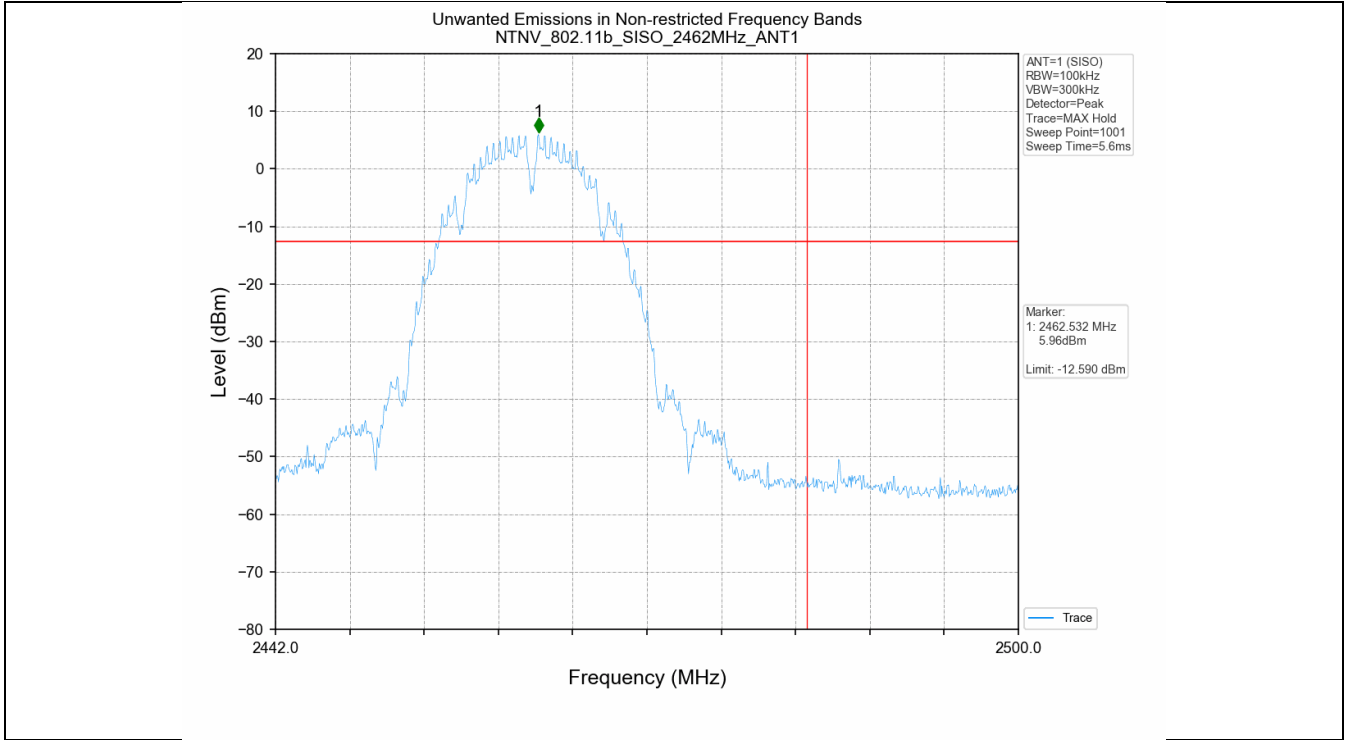
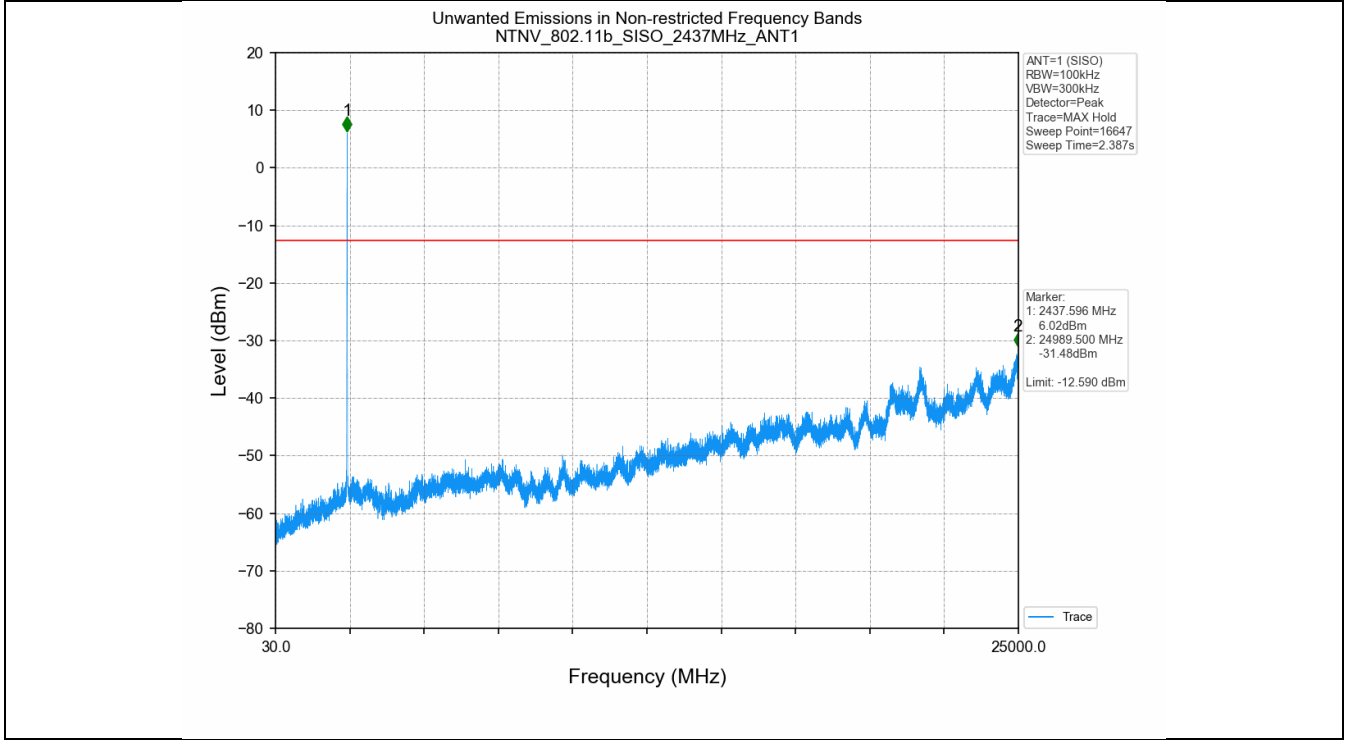
5.1 Test Result

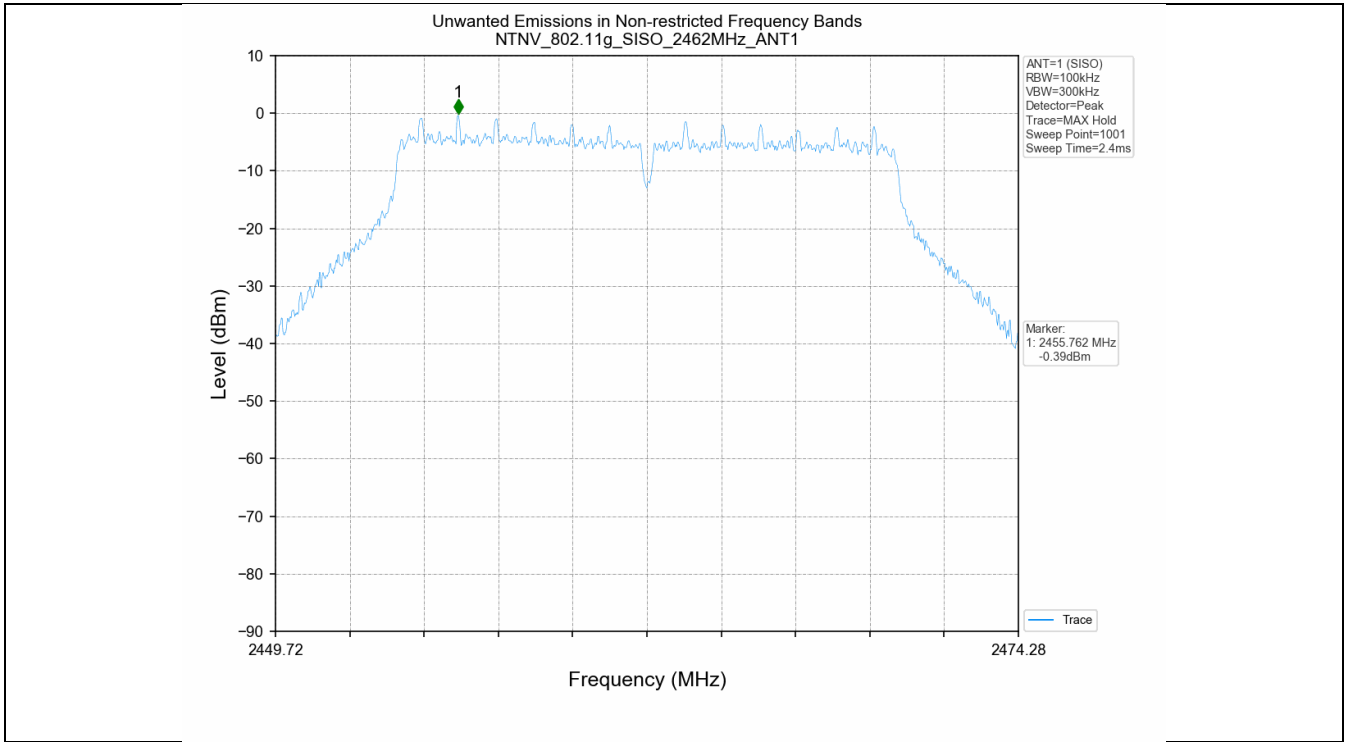
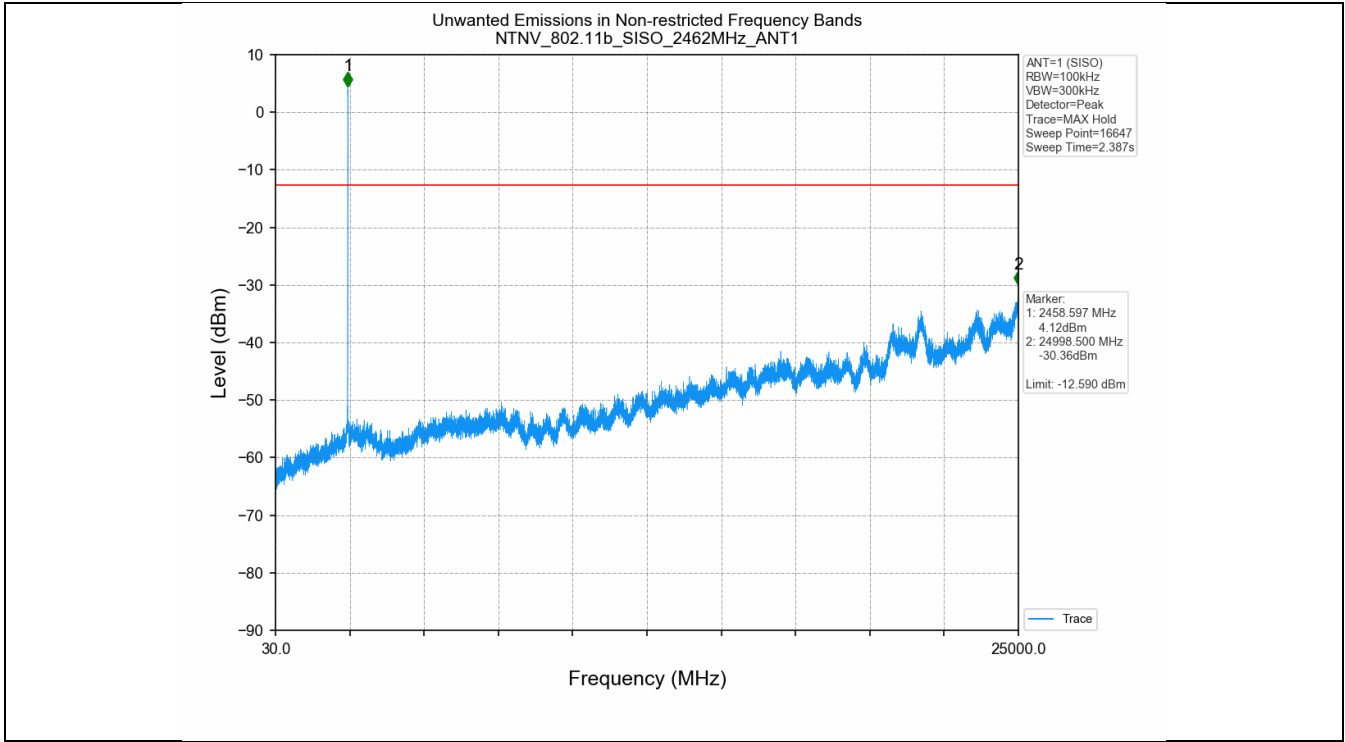
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-12.59	PASS
	2437	SISO	1	Refer to test graph	-12.59	PASS
	2462	SISO	1	Refer to test graph	-12.59	PASS
802.11g	2412	SISO	1	Refer to test graph	-20.39	PASS
	2437	SISO	1	Refer to test graph	-20.39	PASS
	2462	SISO	1	Refer to test graph	-20.39	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-20.42	PASS
	2437	SISO	1	Refer to test graph	-20.42	PASS
	2462	SISO	1	Refer to test graph	-20.42	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-23.05	PASS
	2437	SISO	1	Refer to test graph	-23.05	PASS
	2452	SISO	1	Refer to test graph	-23.05	PASS

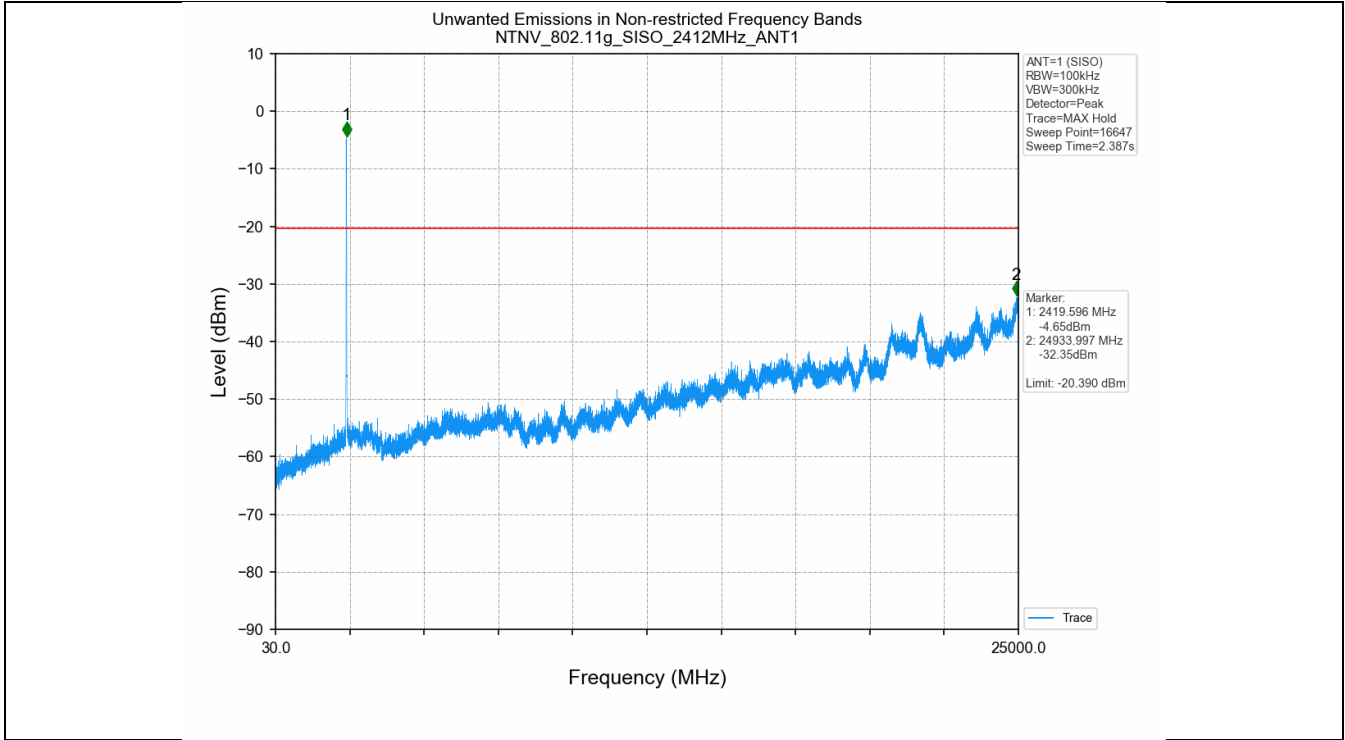
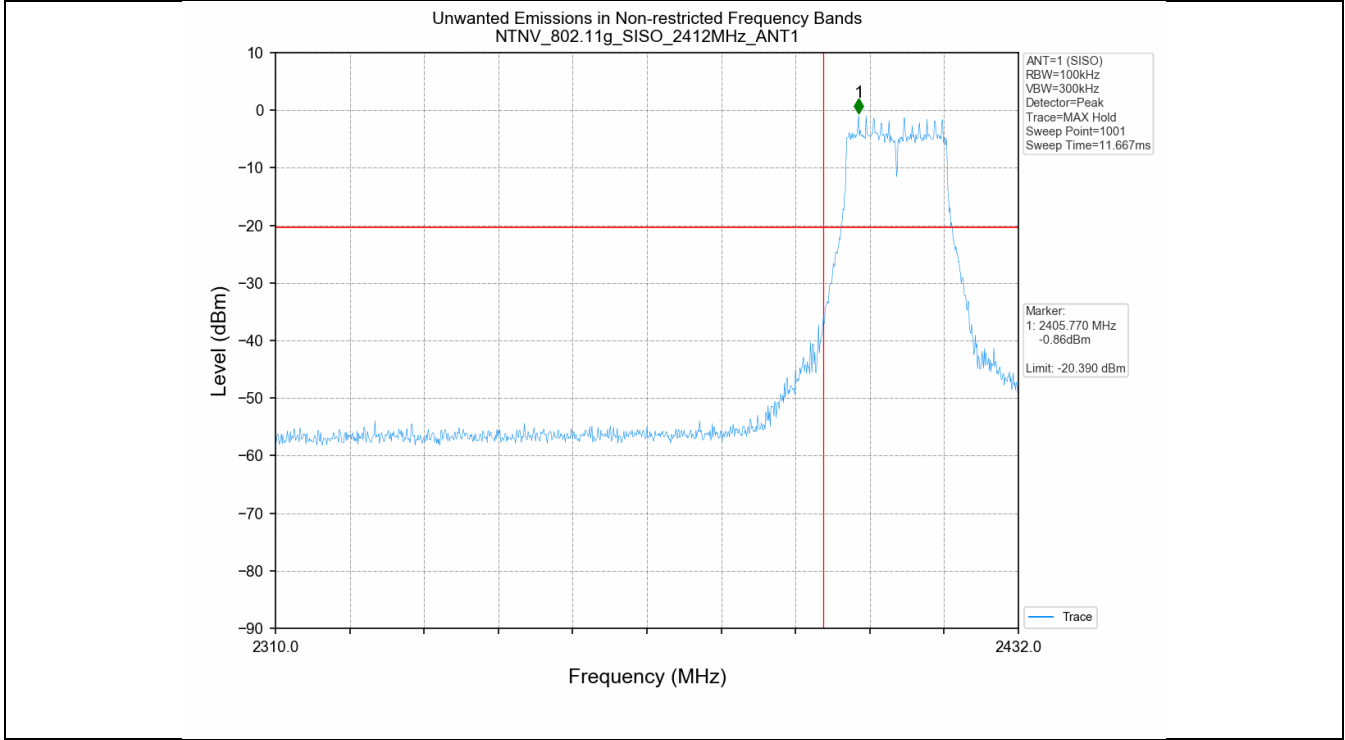
5.2 Test Graph



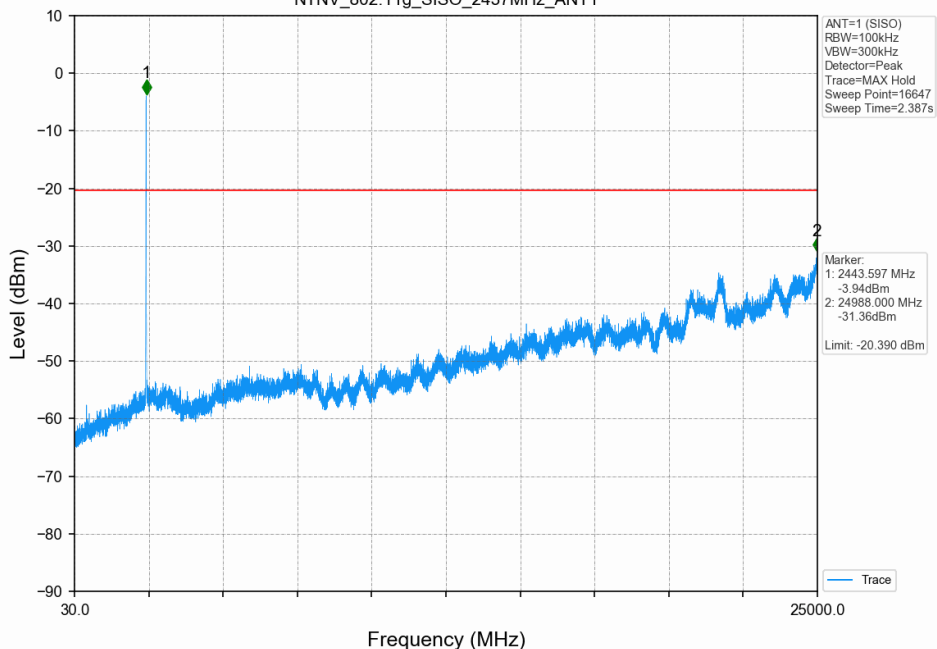




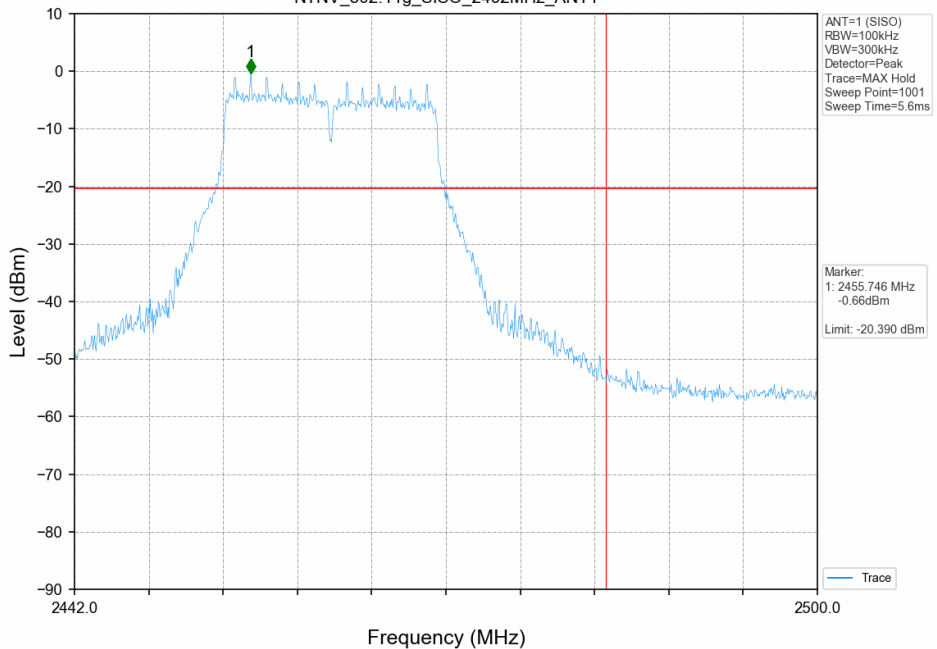


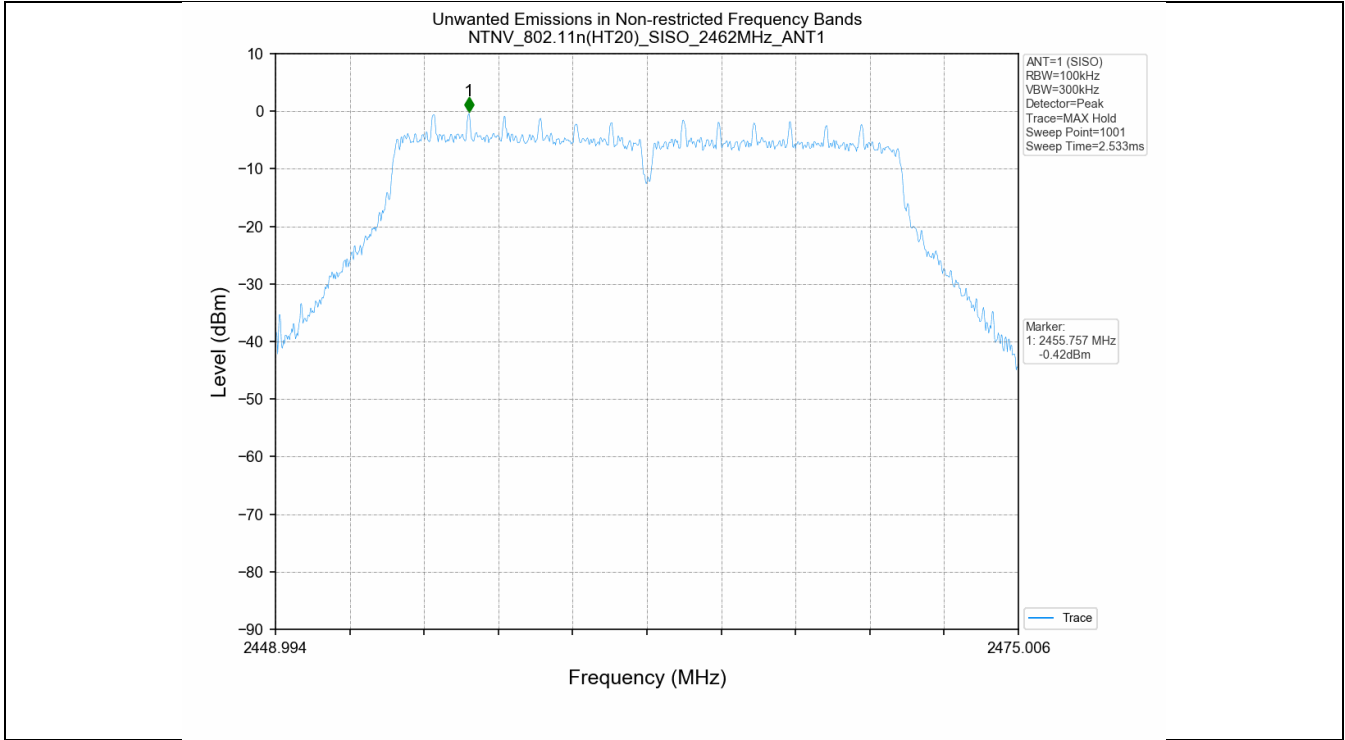
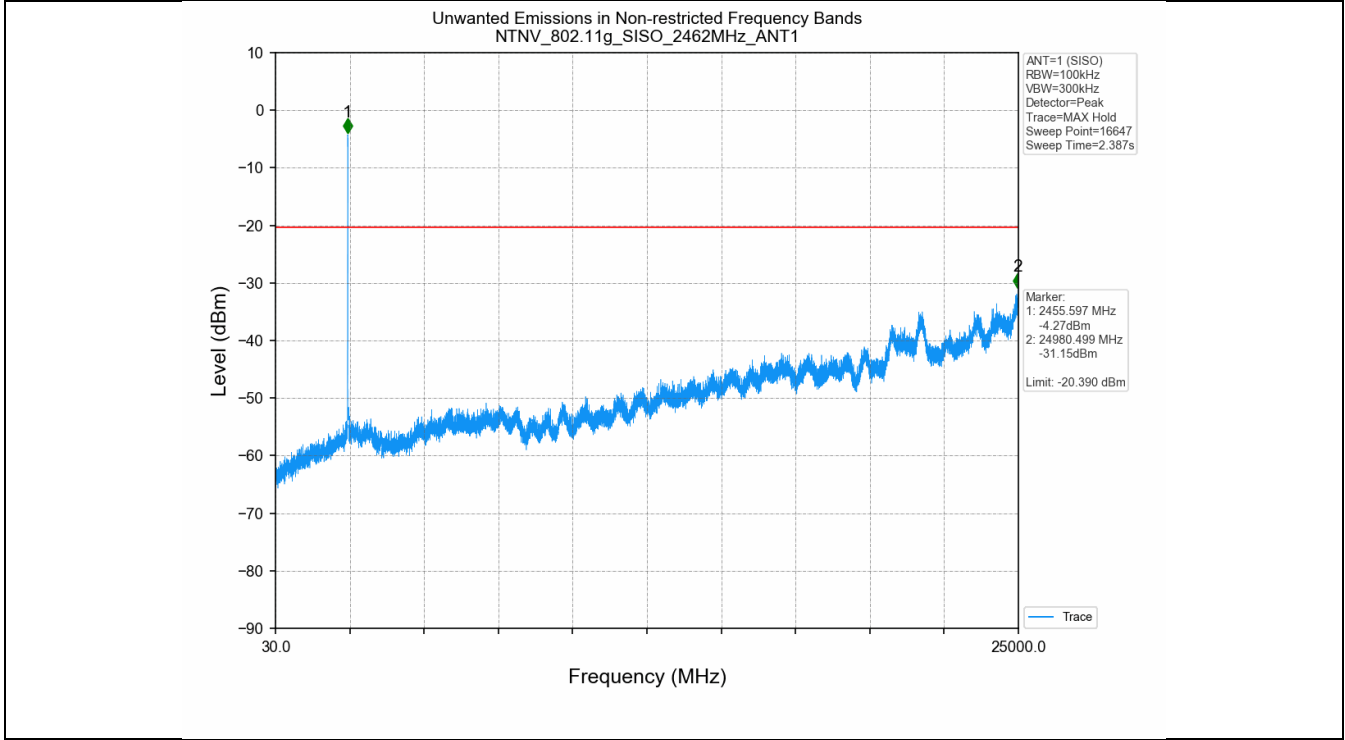


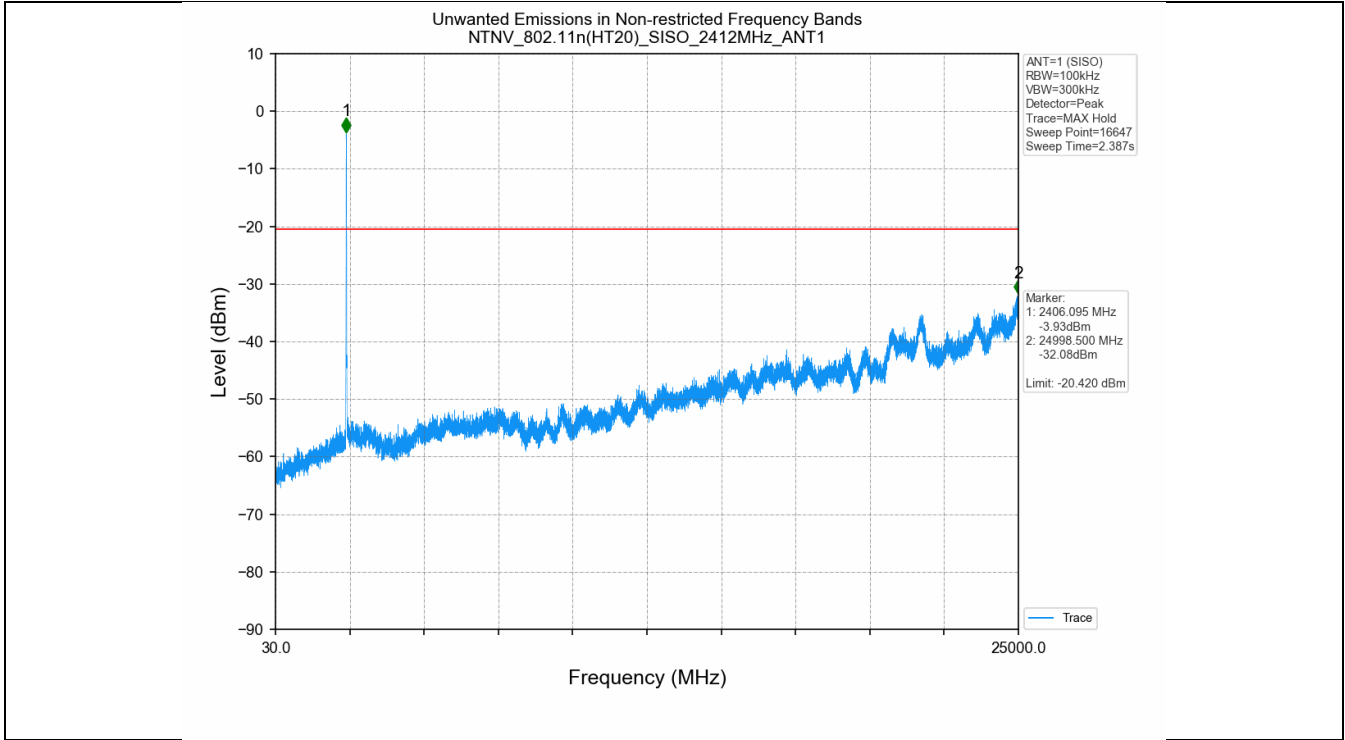
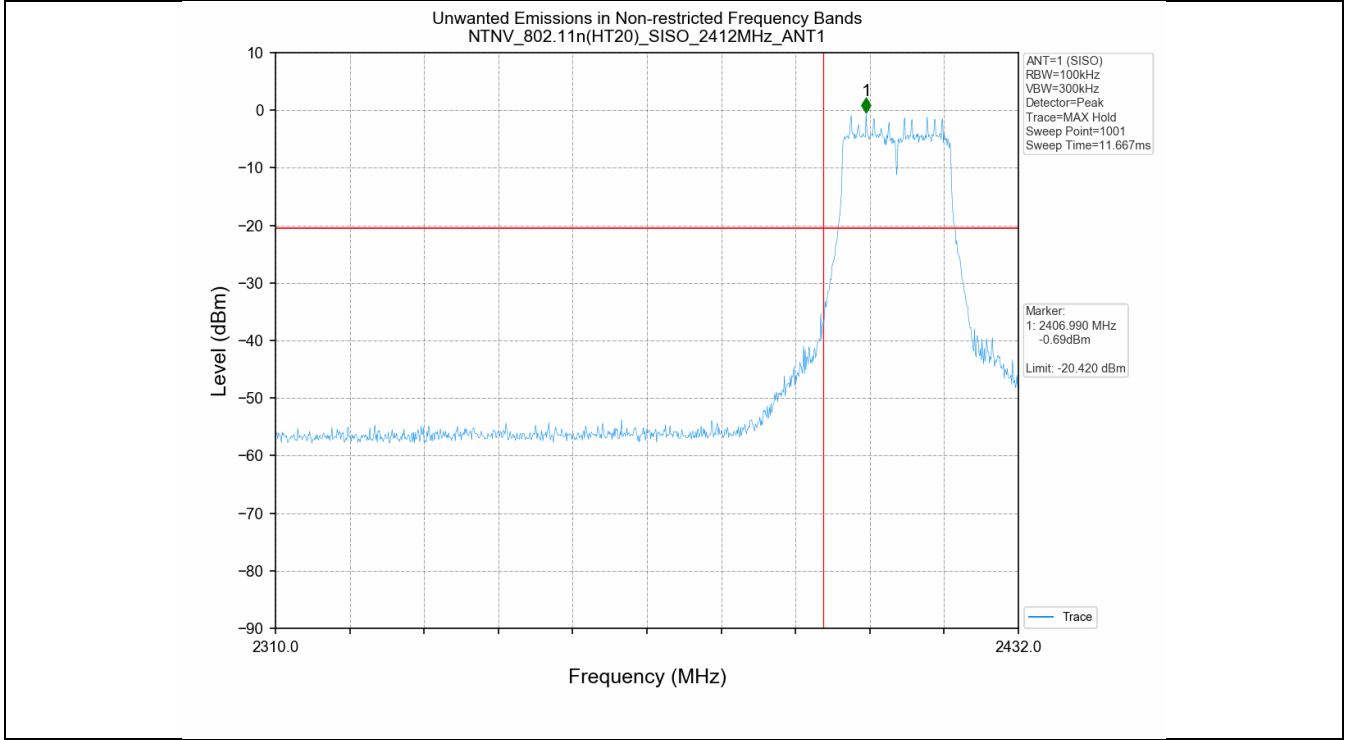
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11g_SISO_2437MHz_ANT1

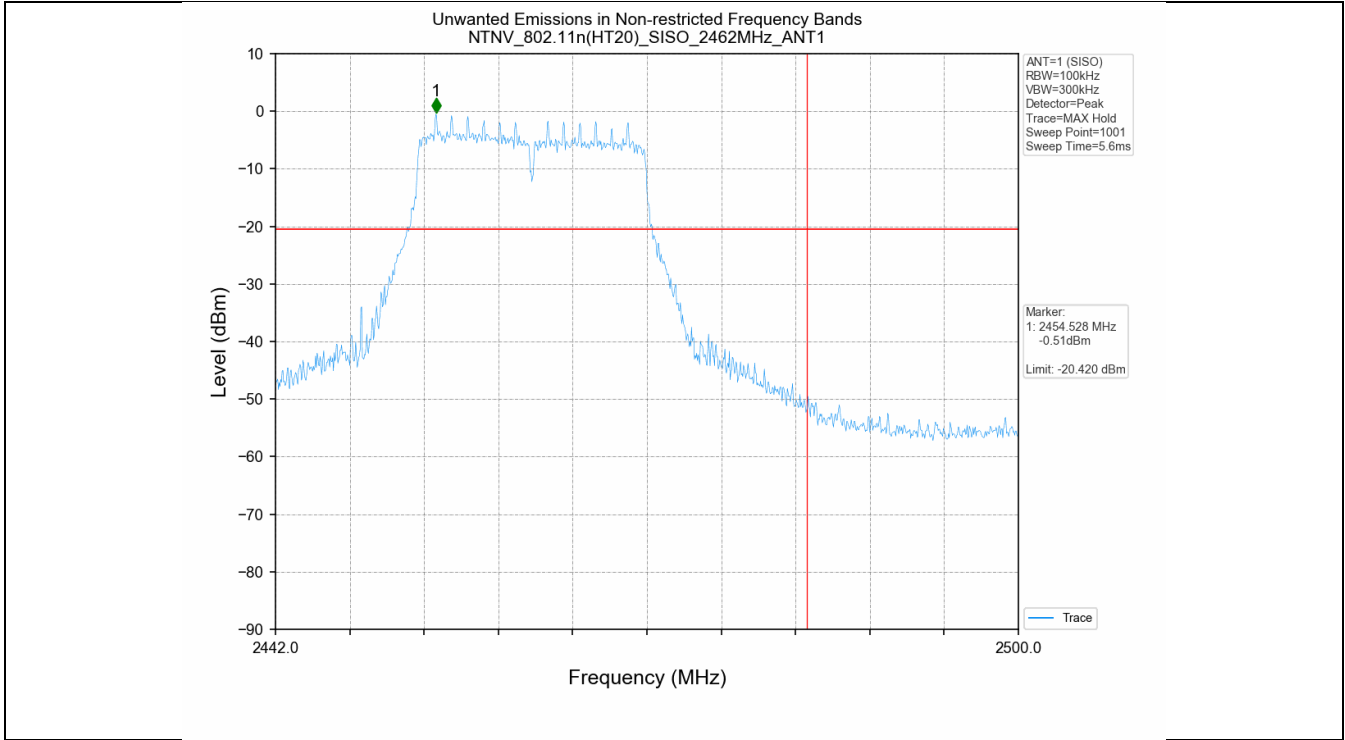
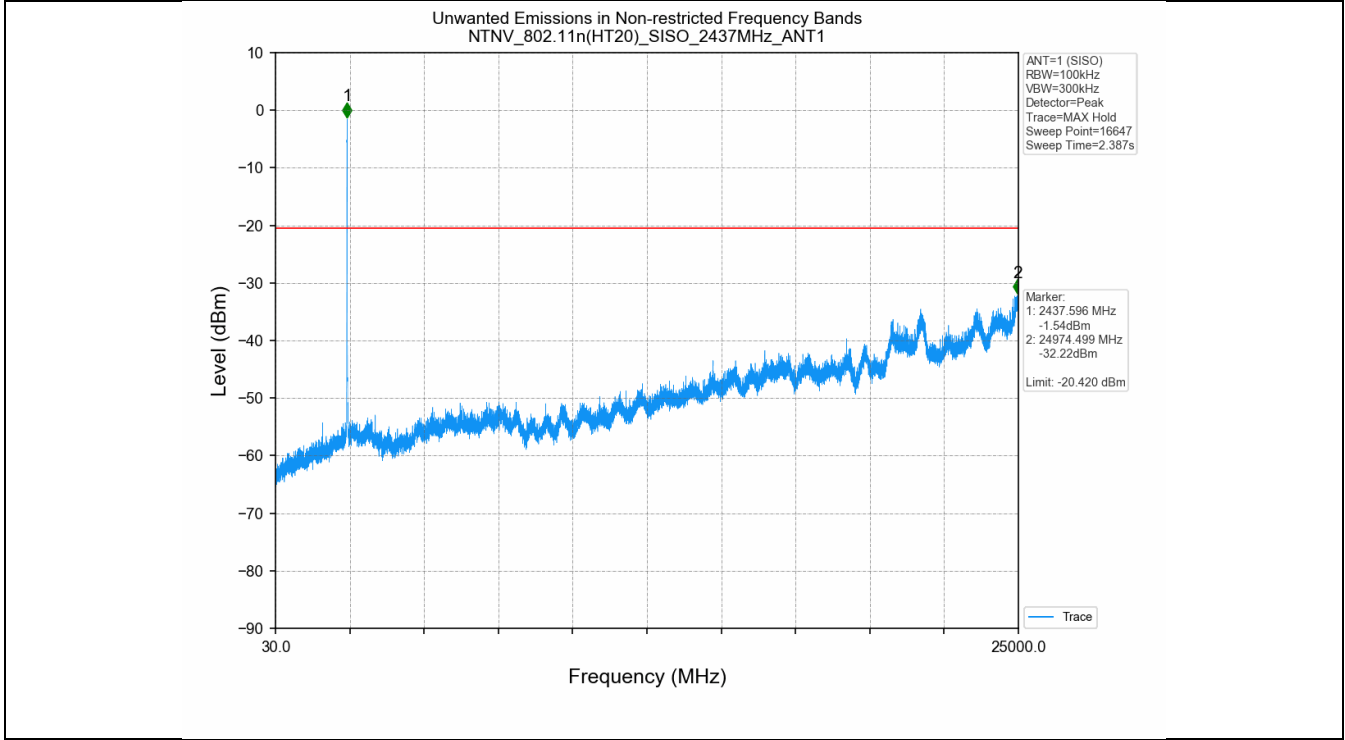


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11g_SISO_2462MHz_ANT1

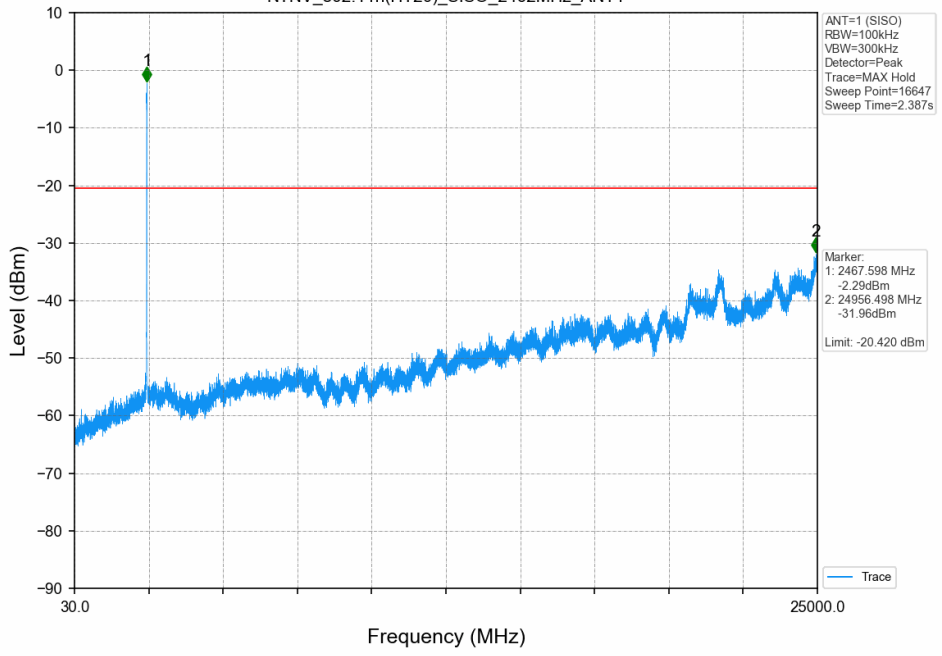




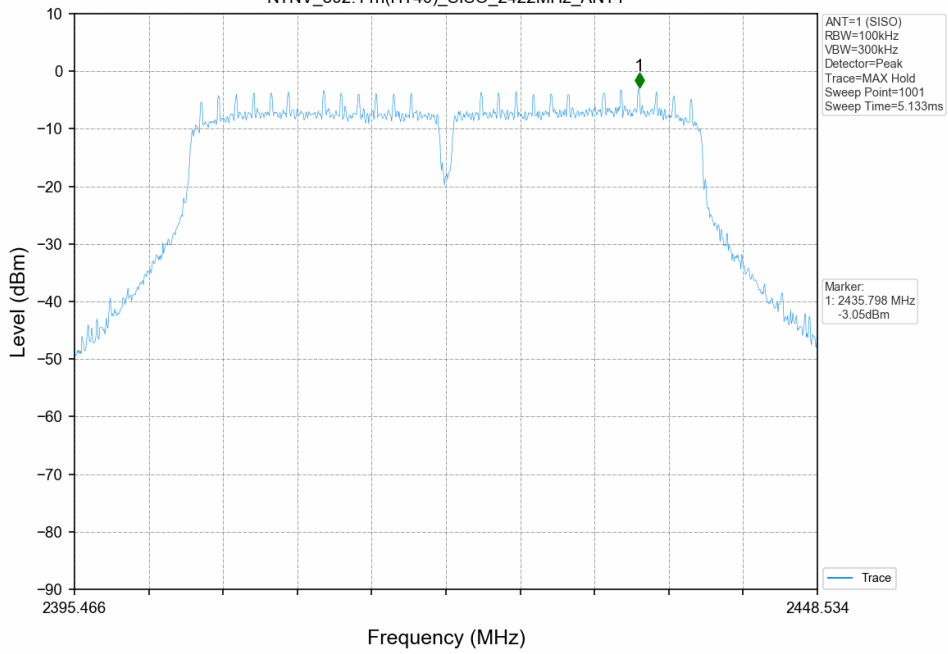


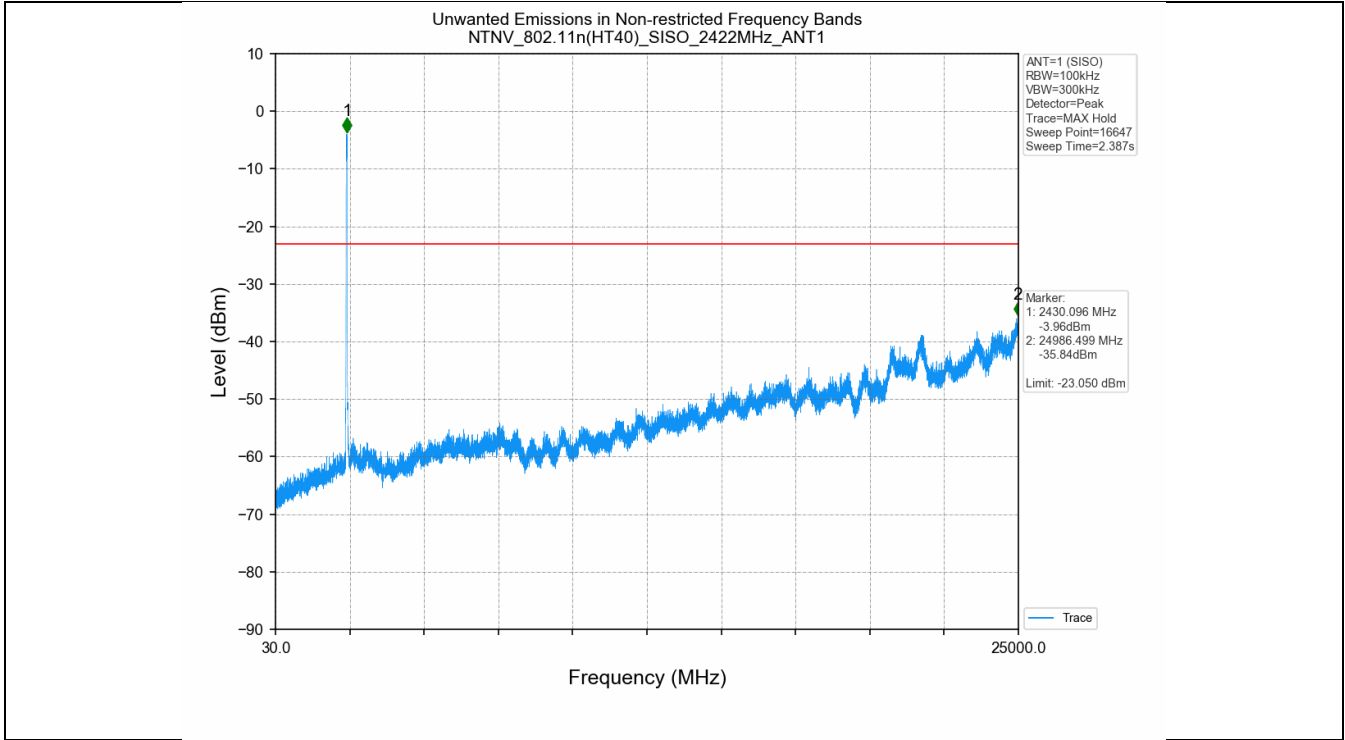
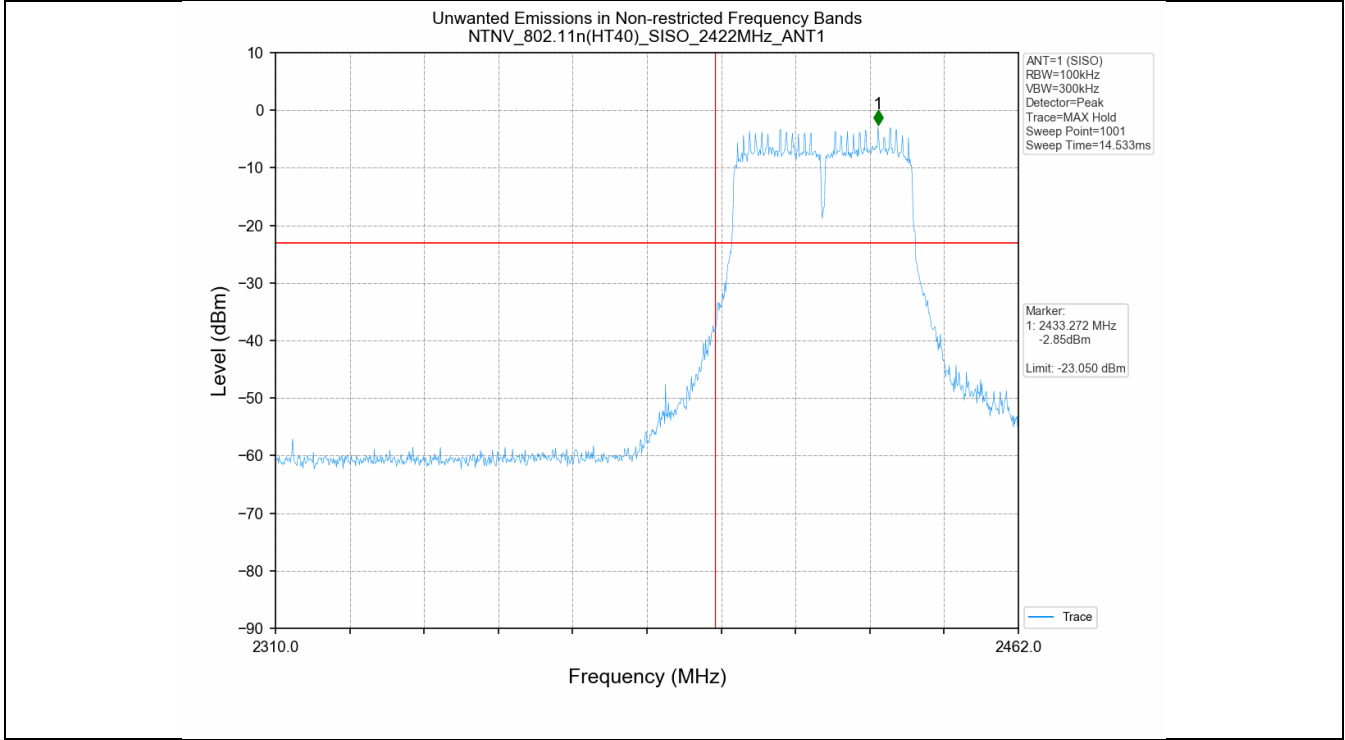


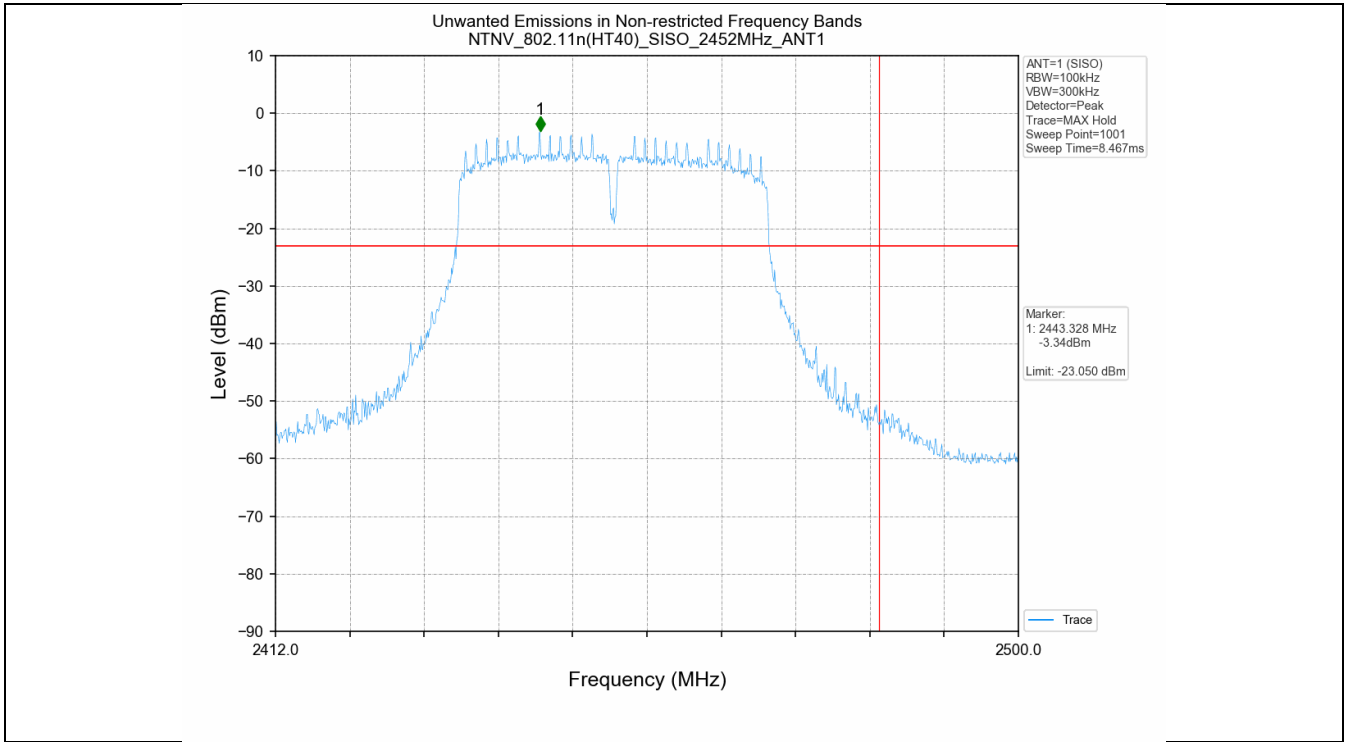
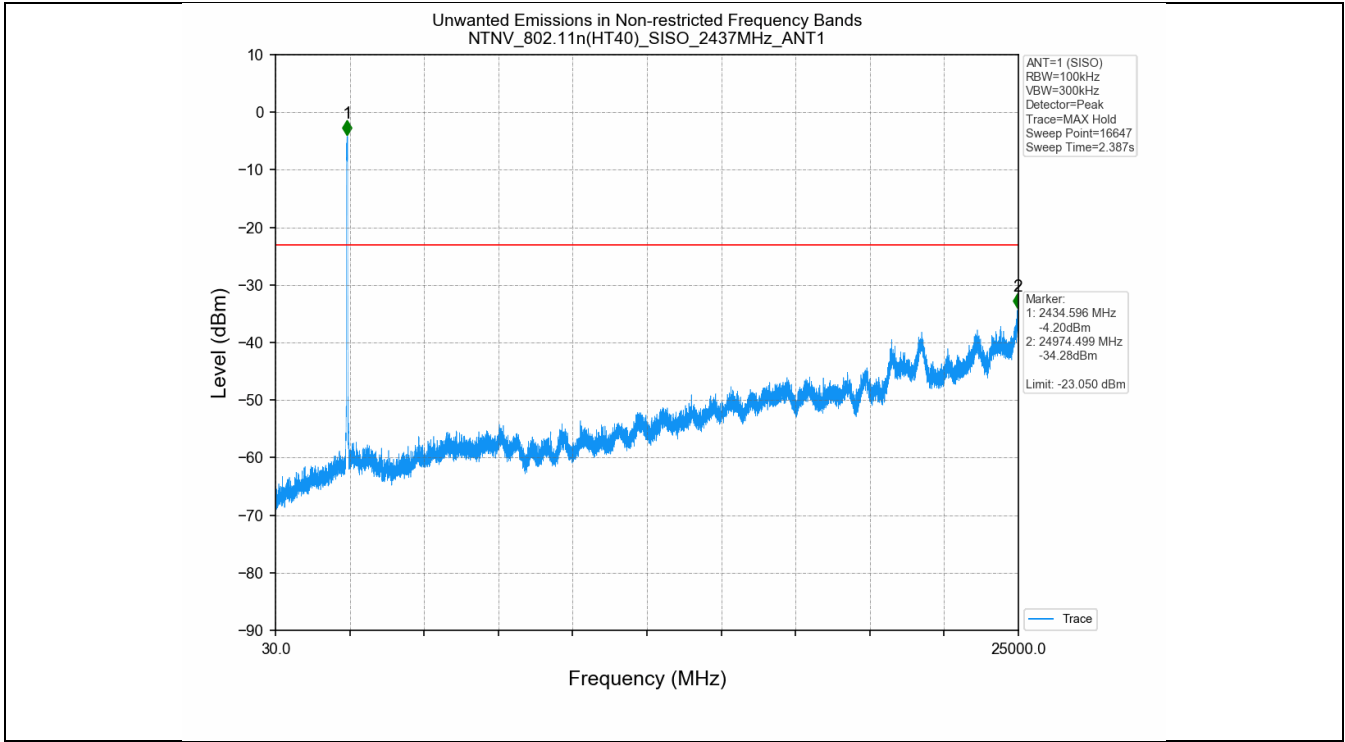
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_SISO_2462MHz_ANT1



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT40)_SISO_2422MHz_ANT1







Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT40)_SISO_2452MHz_ANT1

