

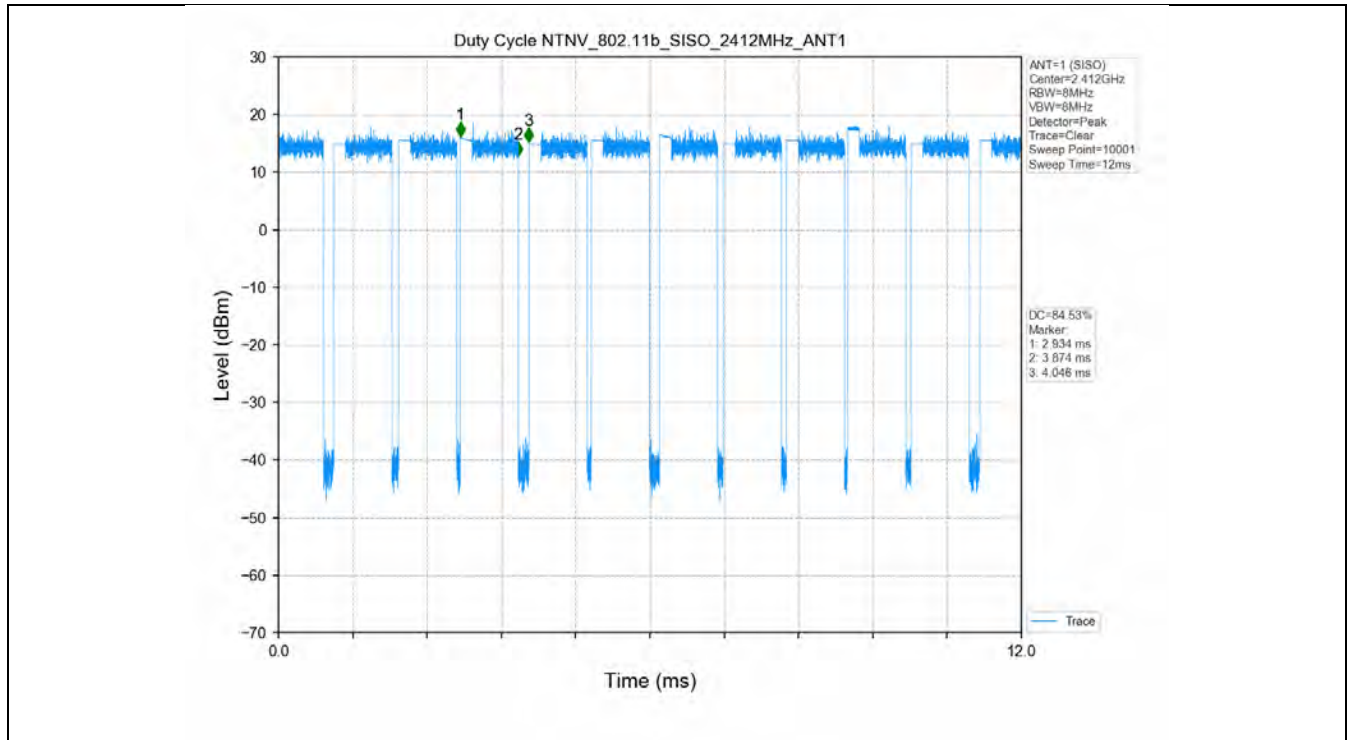
Appendix A for SHEM200900783901

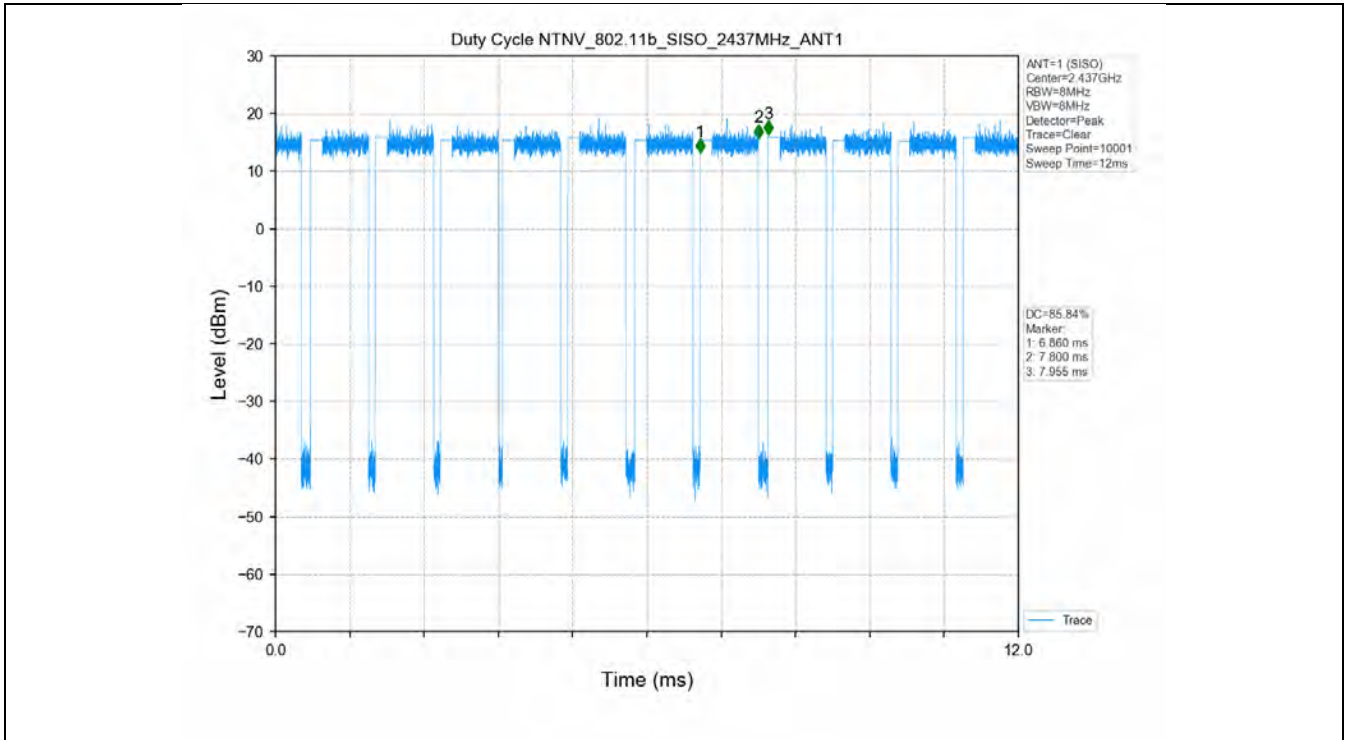
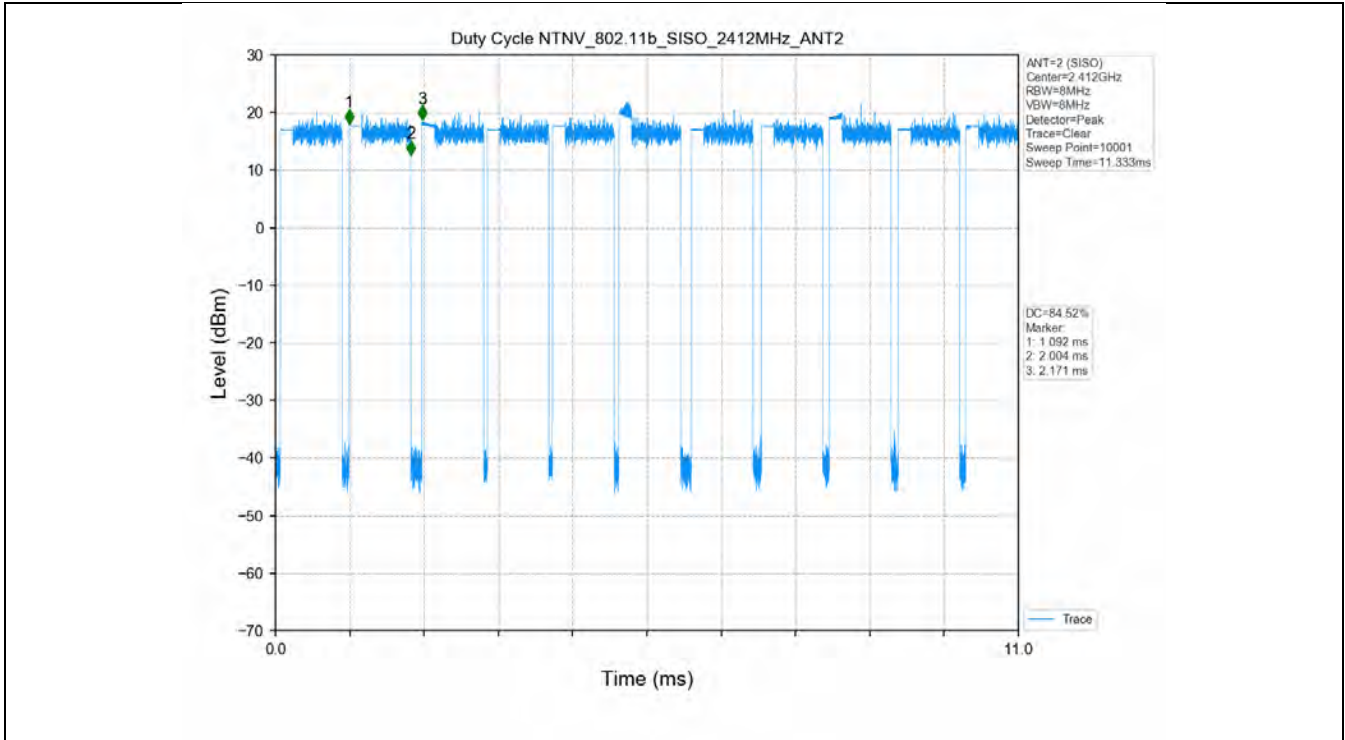
1. Duty Cycle

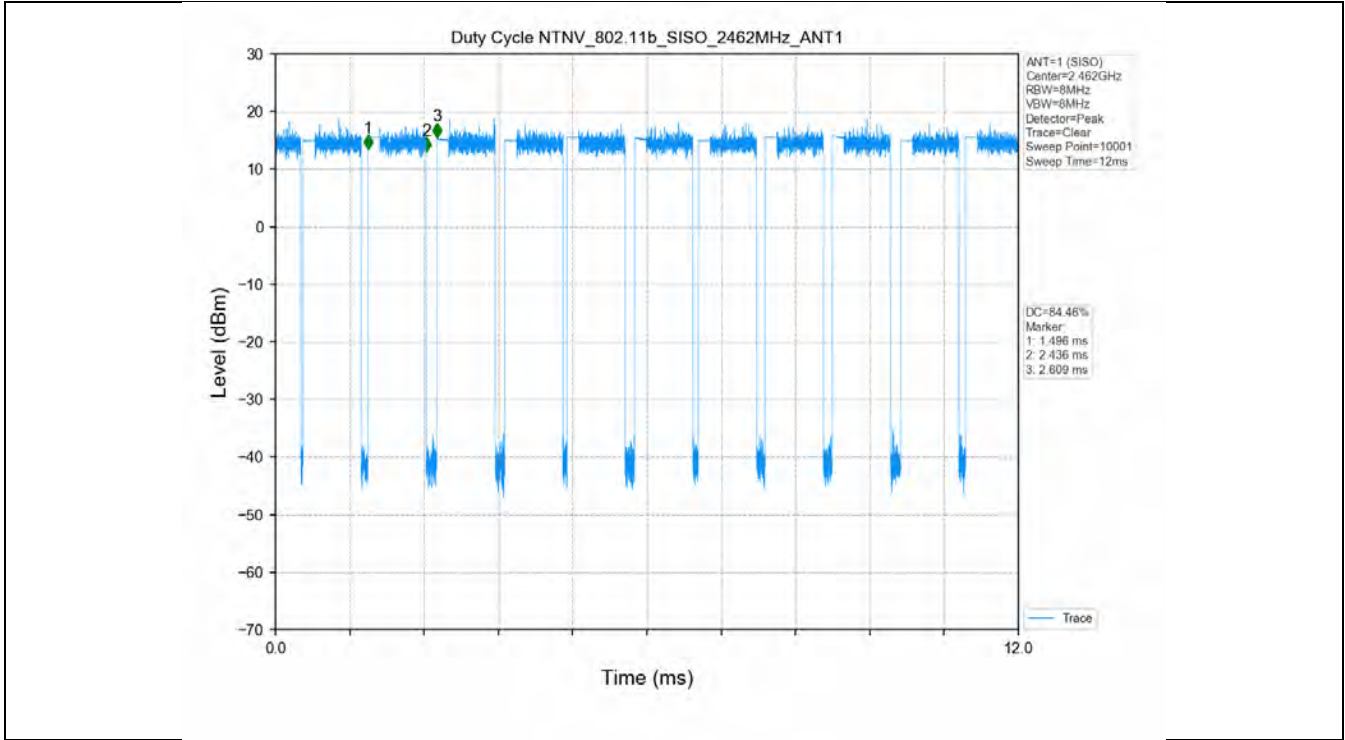
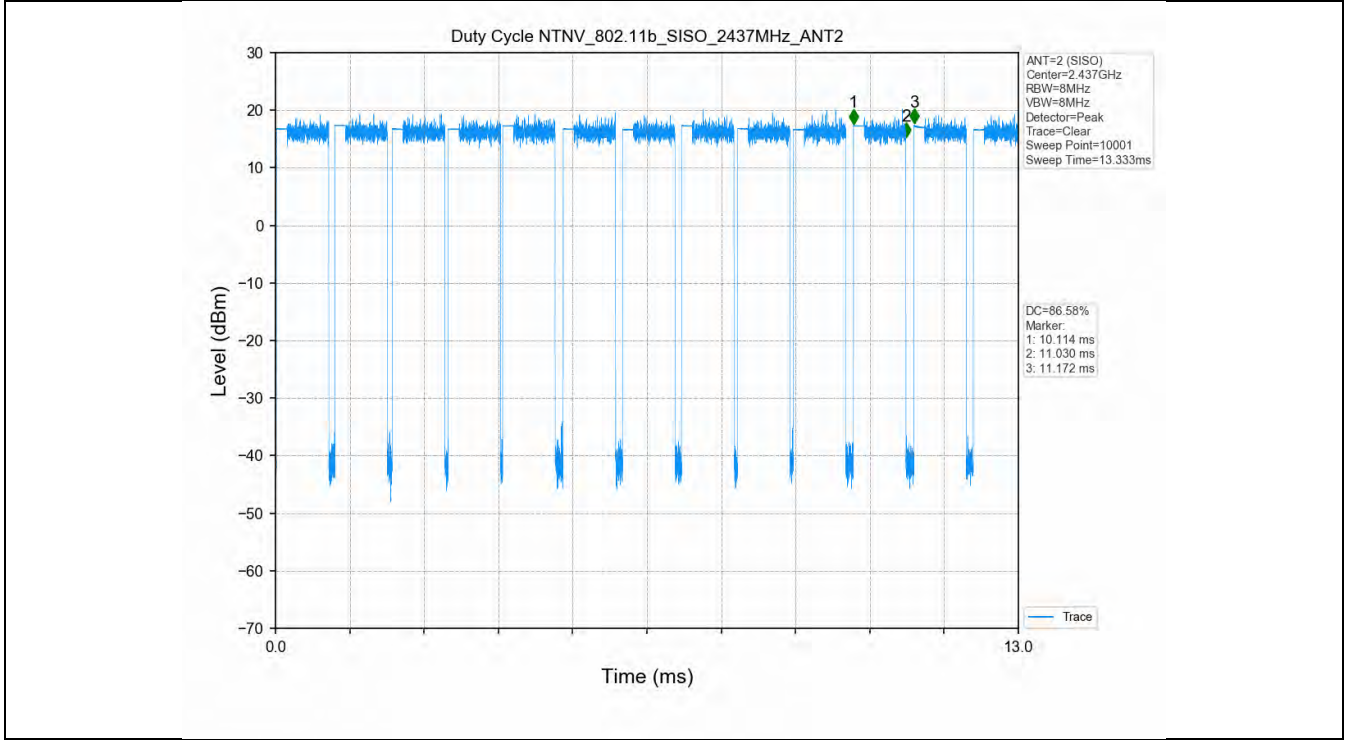
1.1 Test Result

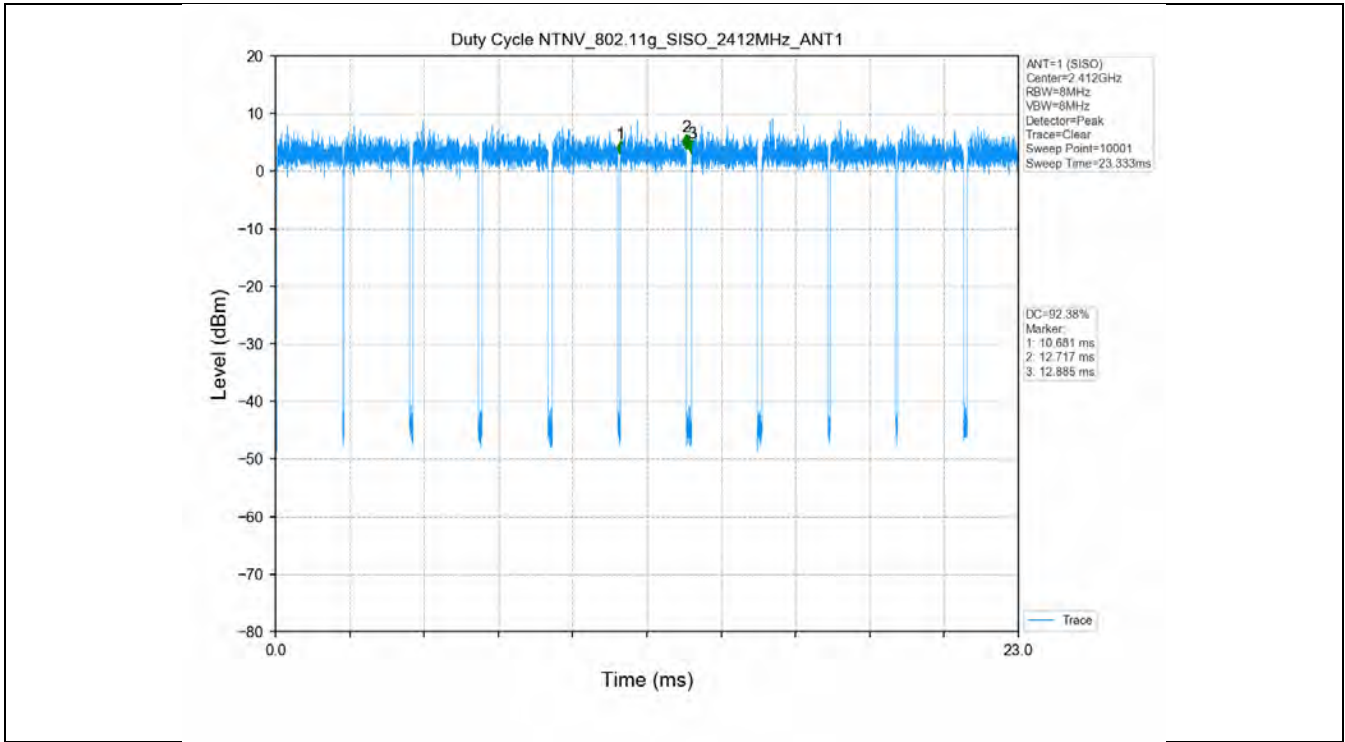
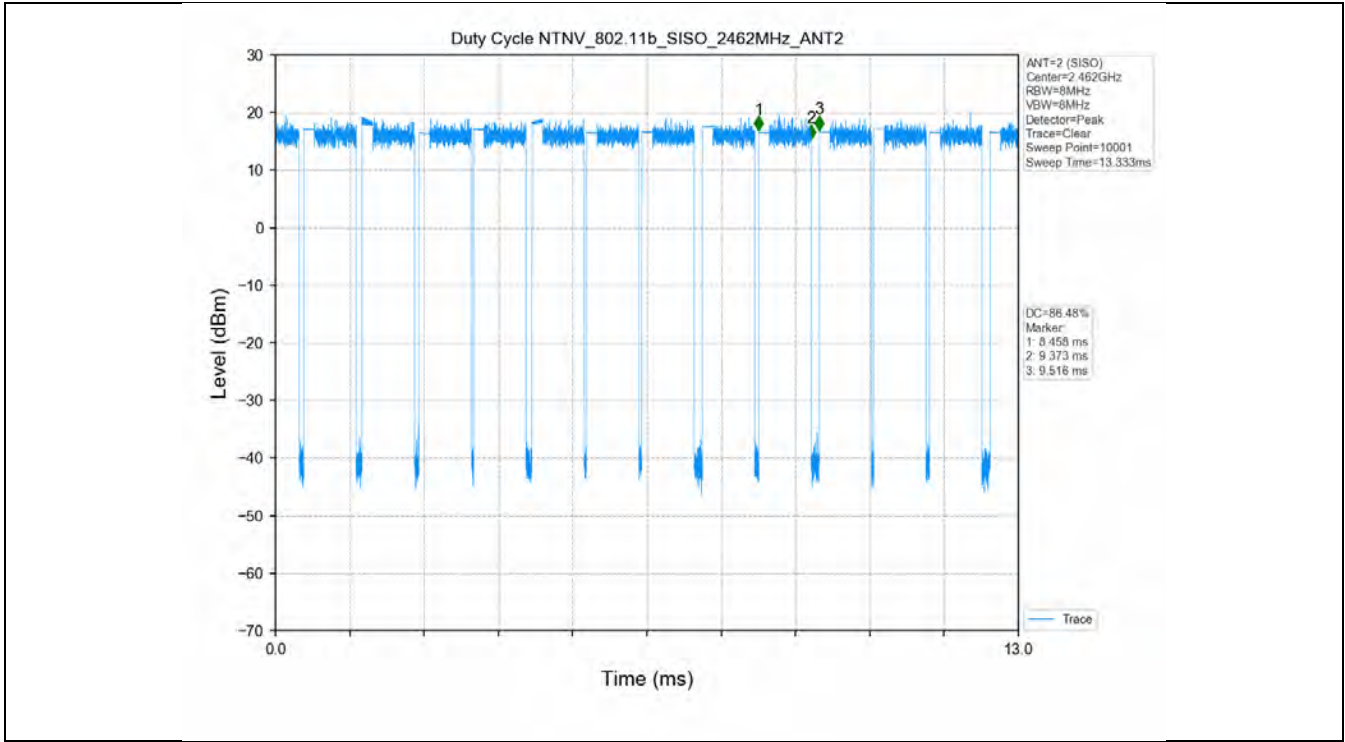
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	0.940	1.112	84.53	0.73
			2	0.912	1.079	84.52	0.73
	2437	SISO	1	0.940	1.095	85.84	0.66
			2	0.916	1.058	86.58	0.63
	2462	SISO	1	0.940	1.113	84.46	0.73
			2	0.915	1.058	86.48	0.63
802.11g	2412	SISO	1	2.036	2.204	92.38	0.34
			2	2.036	2.194	92.80	0.32
	2437	SISO	1	2.033	2.195	92.62	0.33
			2	2.063	2.235	92.30	0.35
	2462	SISO	1	2.034	2.186	93.05	0.31
			2	2.039	2.206	92.43	0.34
802.11n(HT20)	2412	MIMO	1	1.890	2.058	91.84	0.37
			2	1.890	2.058	91.84	0.37
	2437	MIMO	1	1.890	2.042	92.56	0.34
			2	1.895	2.030	93.35	0.30
	2462	MIMO	1	1.921	2.083	92.22	0.35
			2	1.890	2.041	92.60	0.33

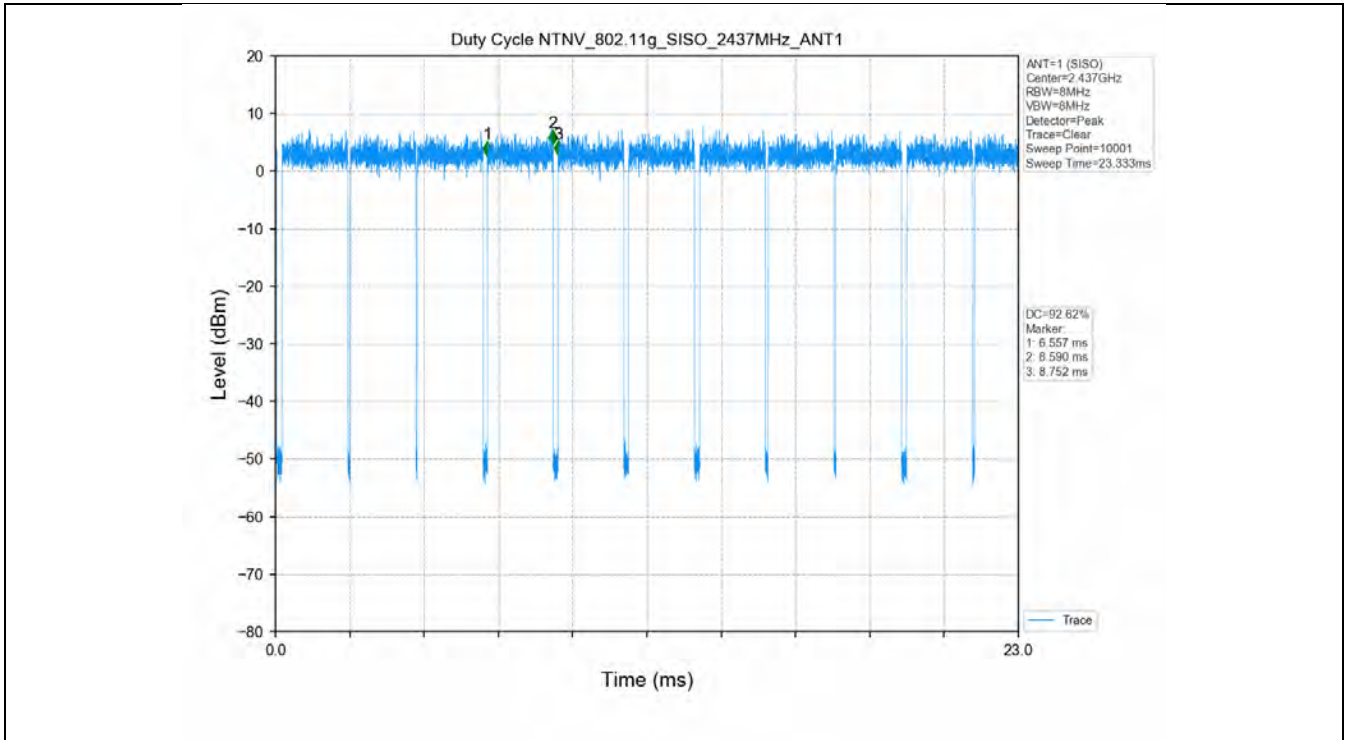
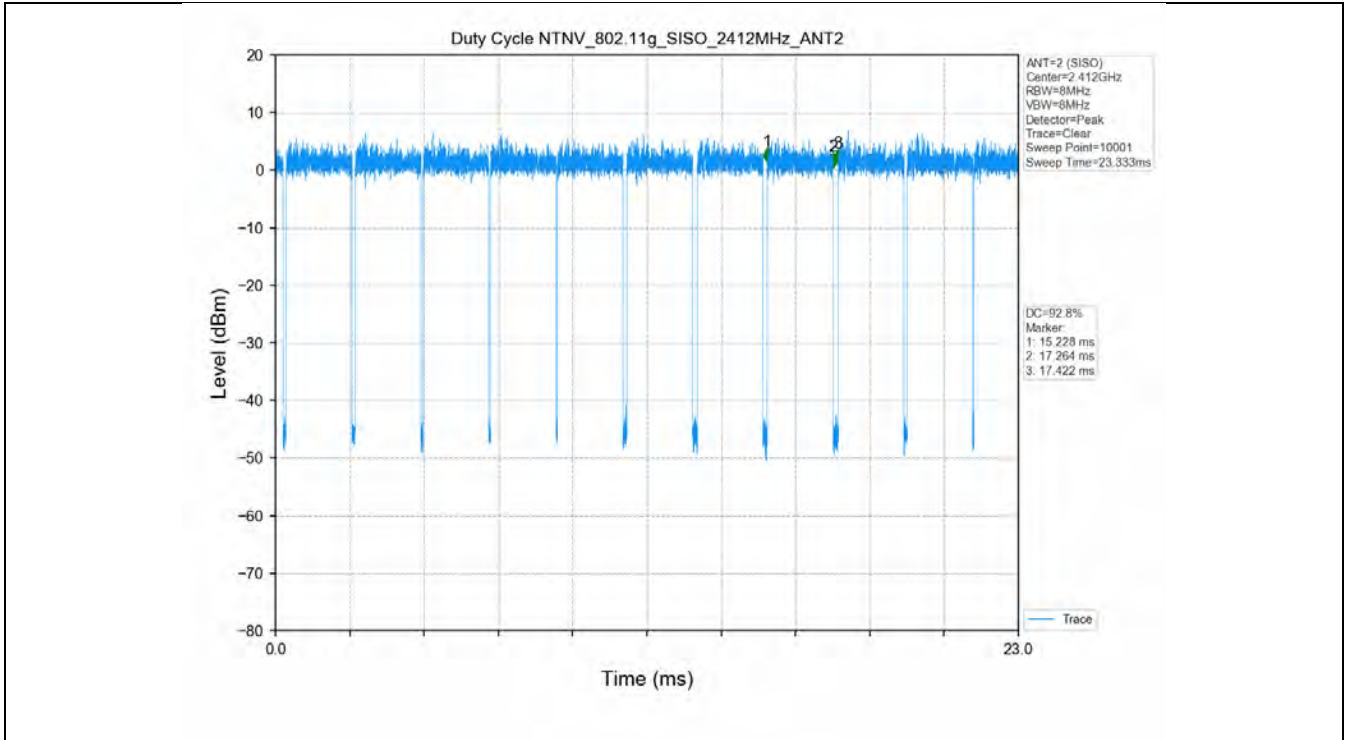
1.2 Test Graph

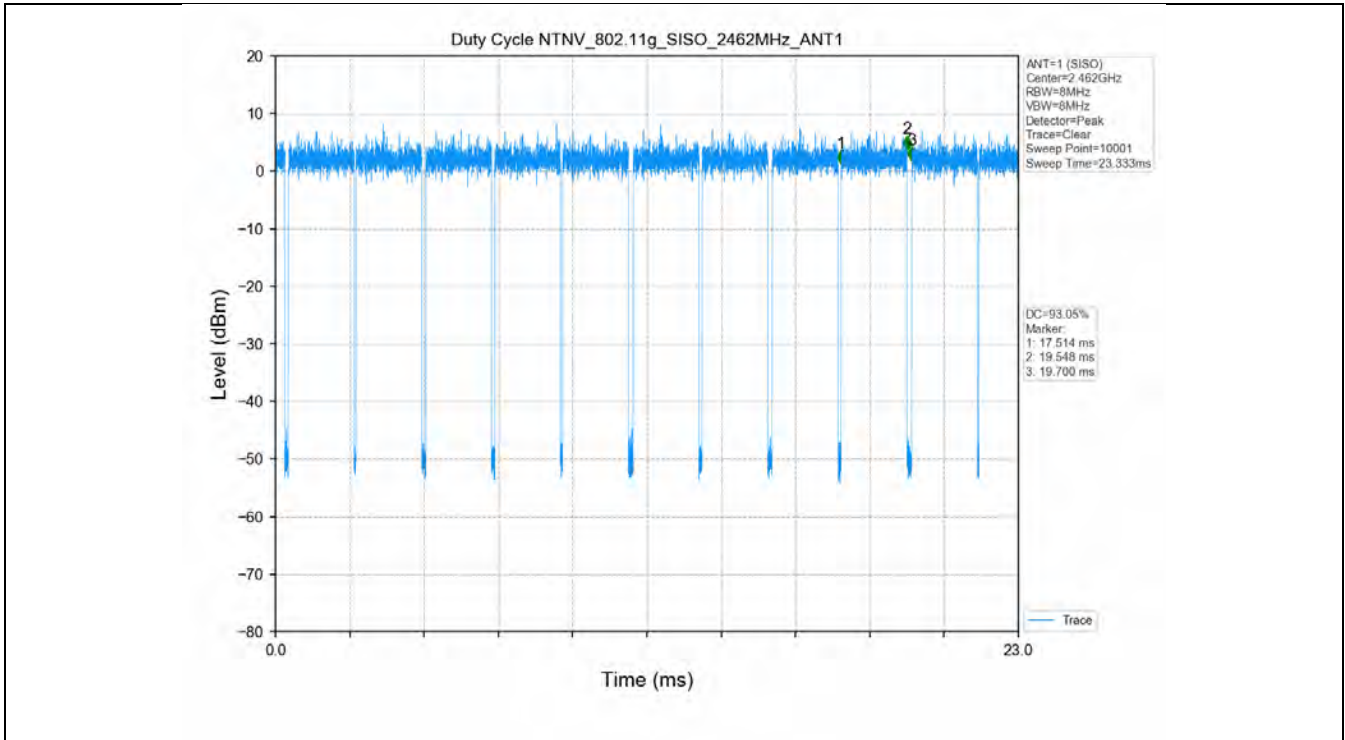
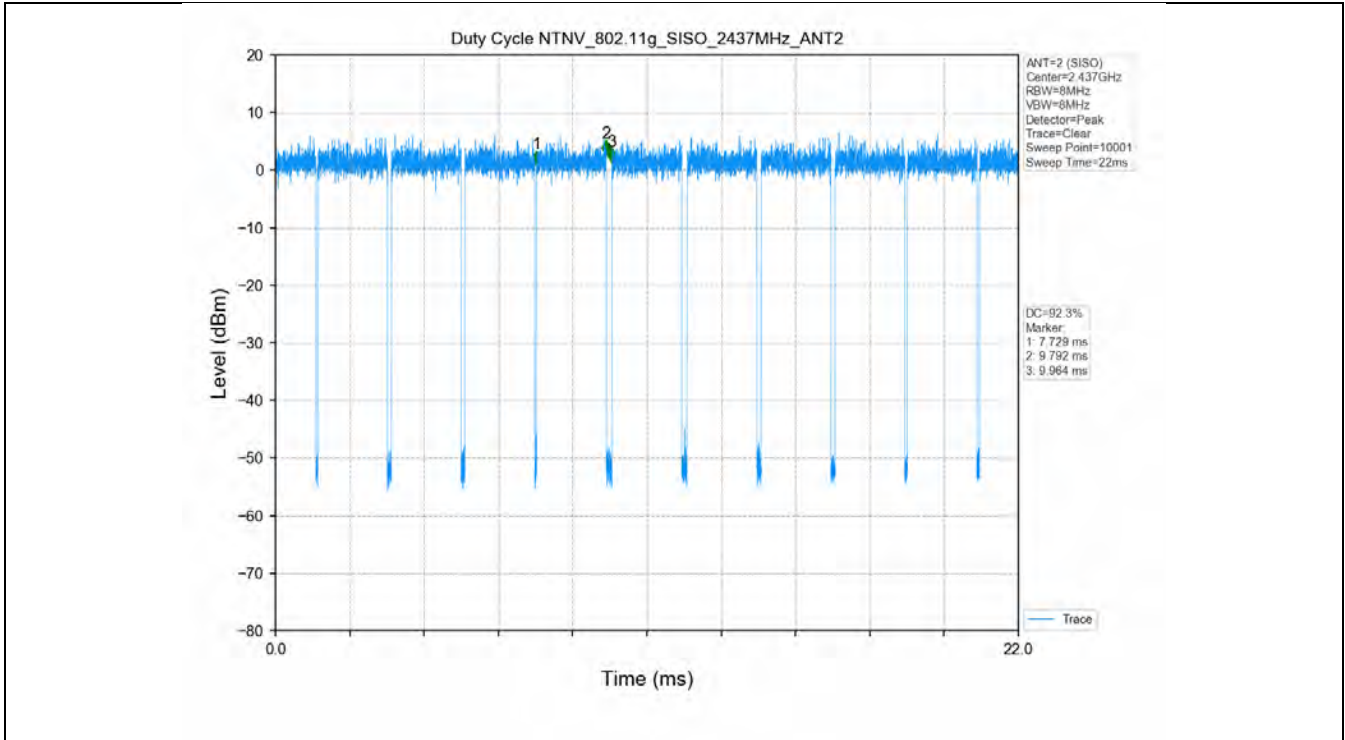


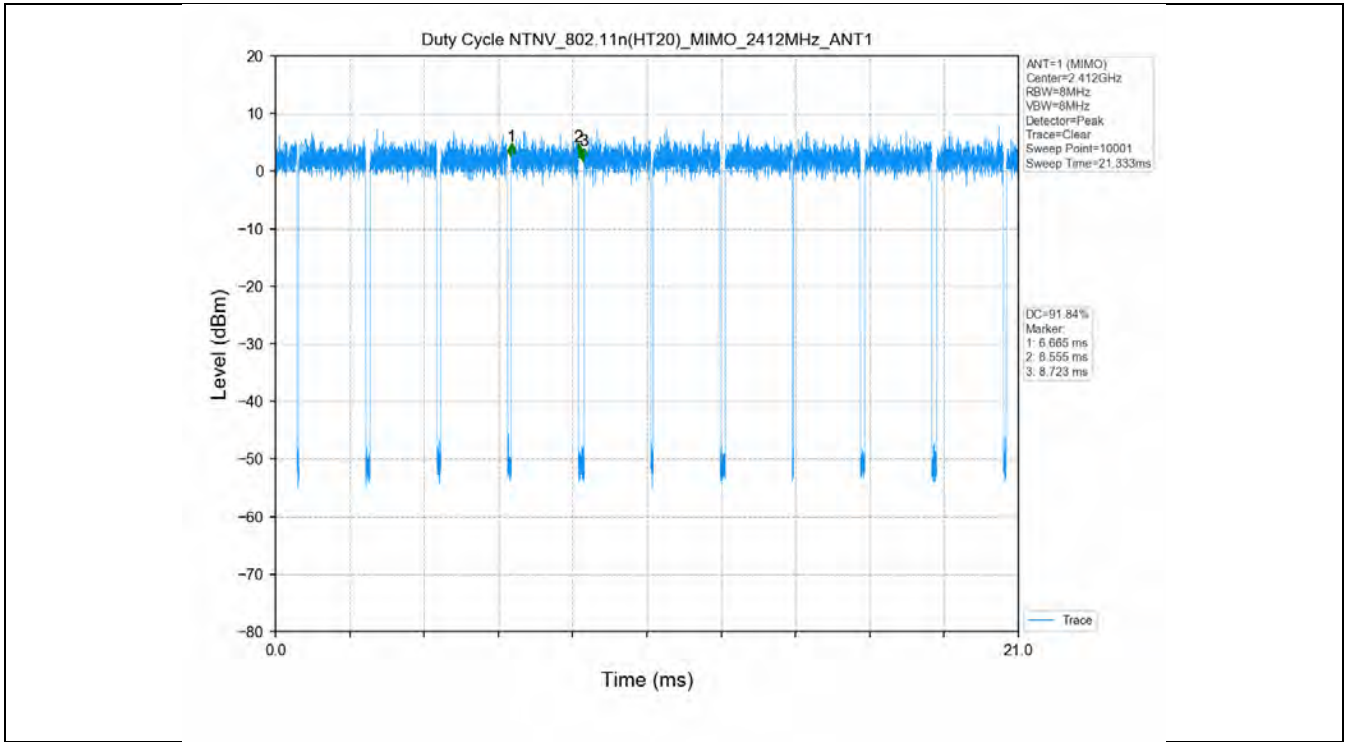
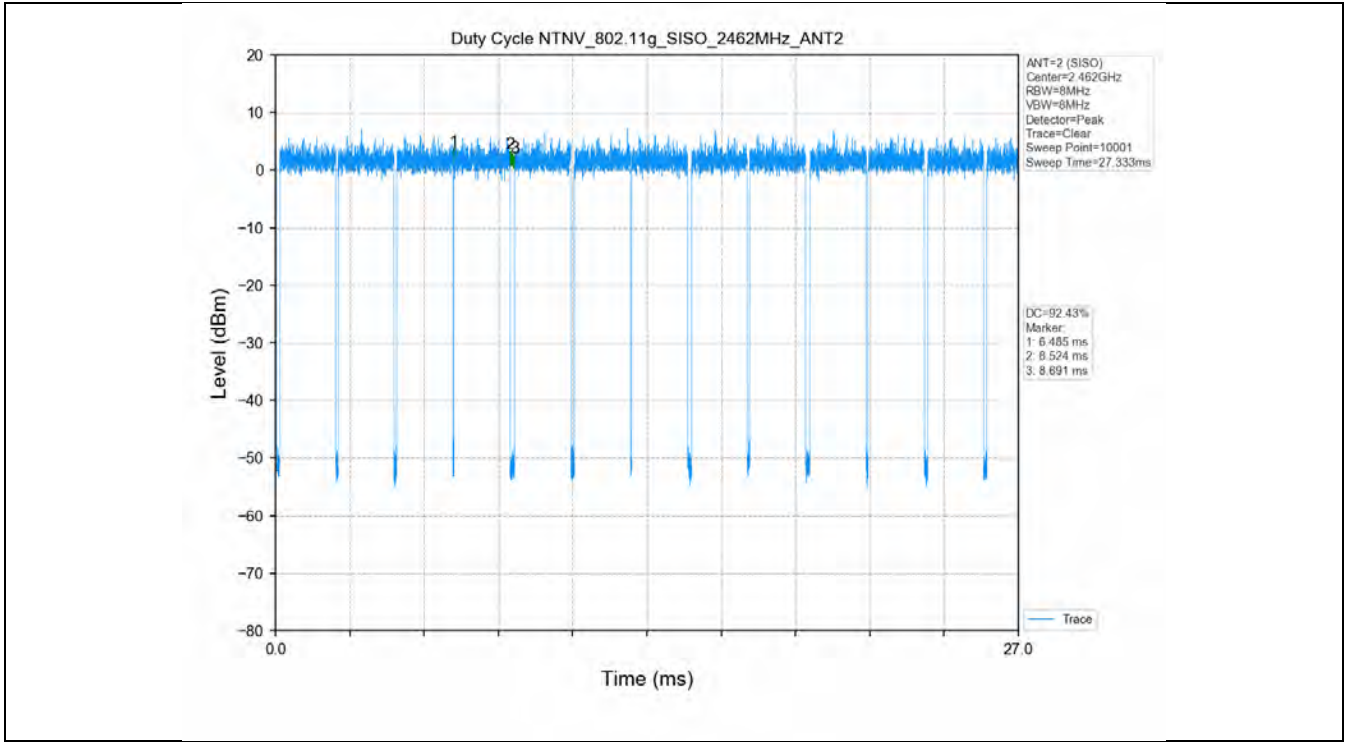


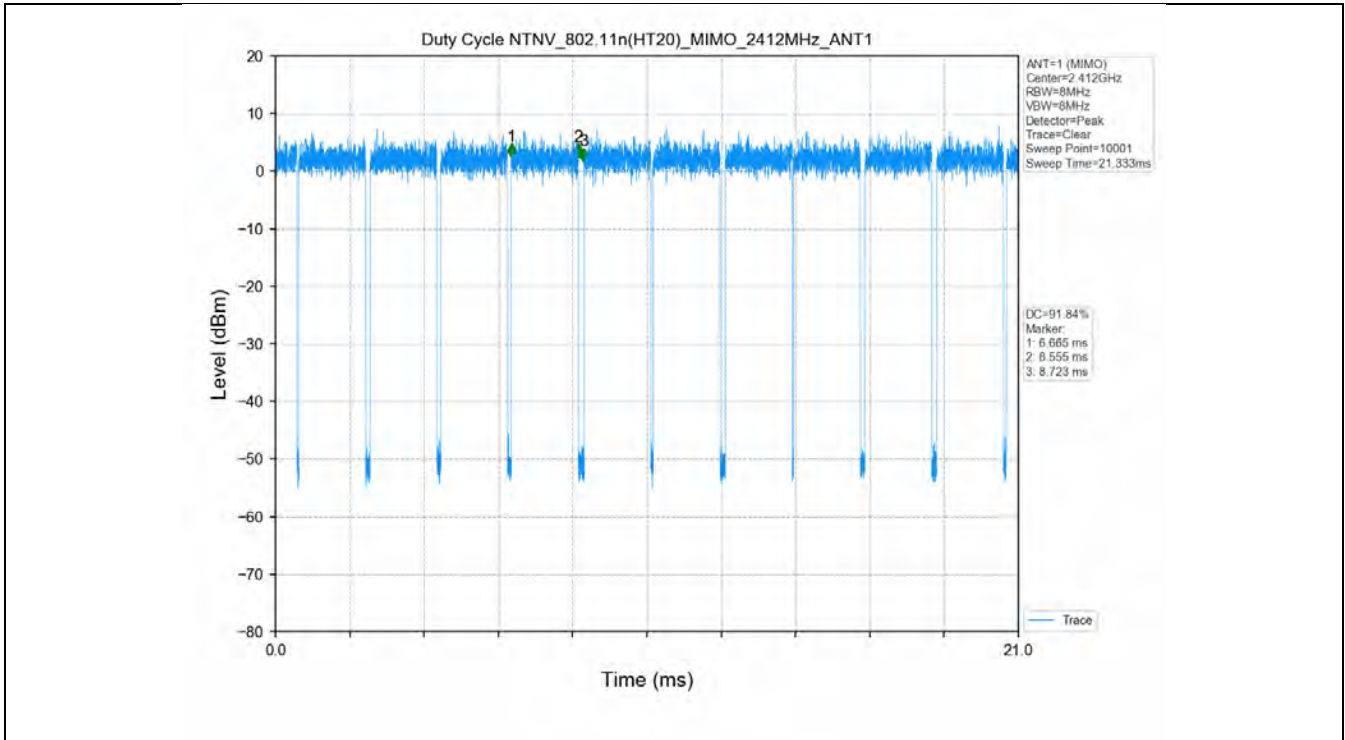
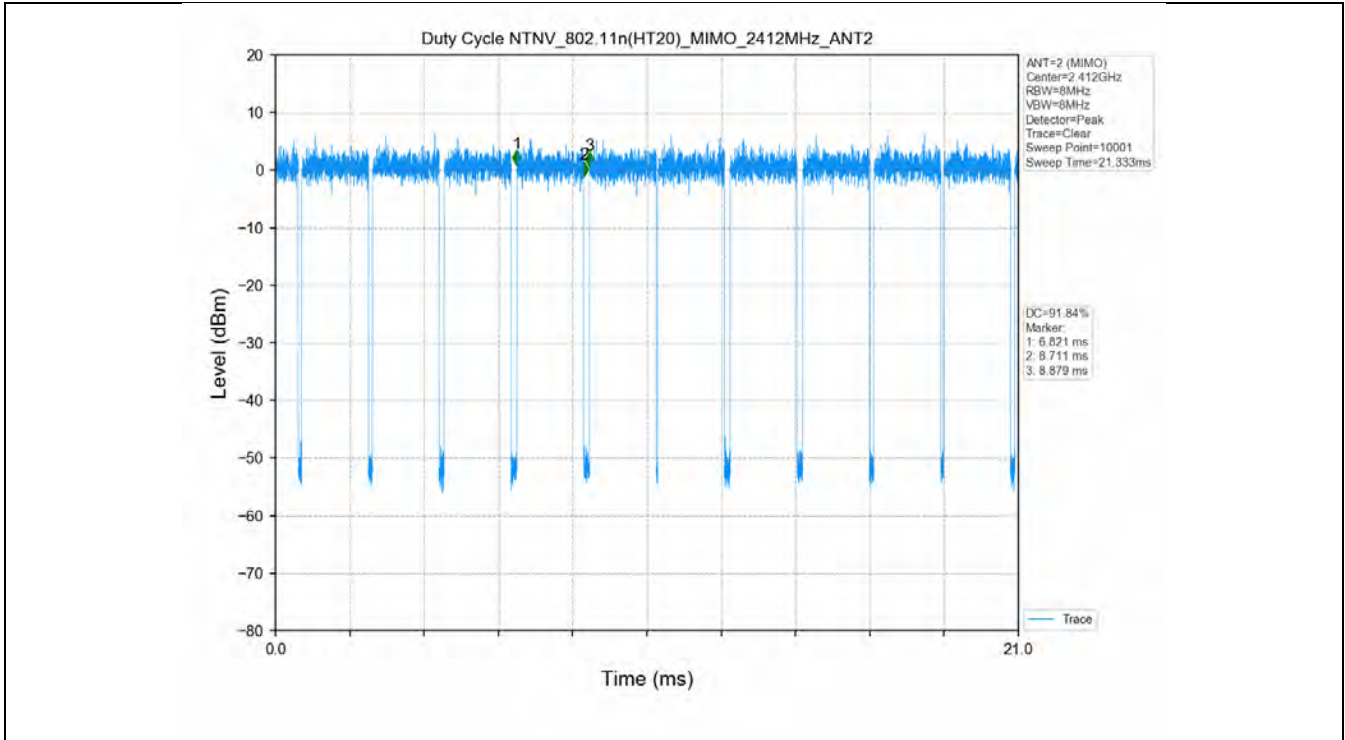


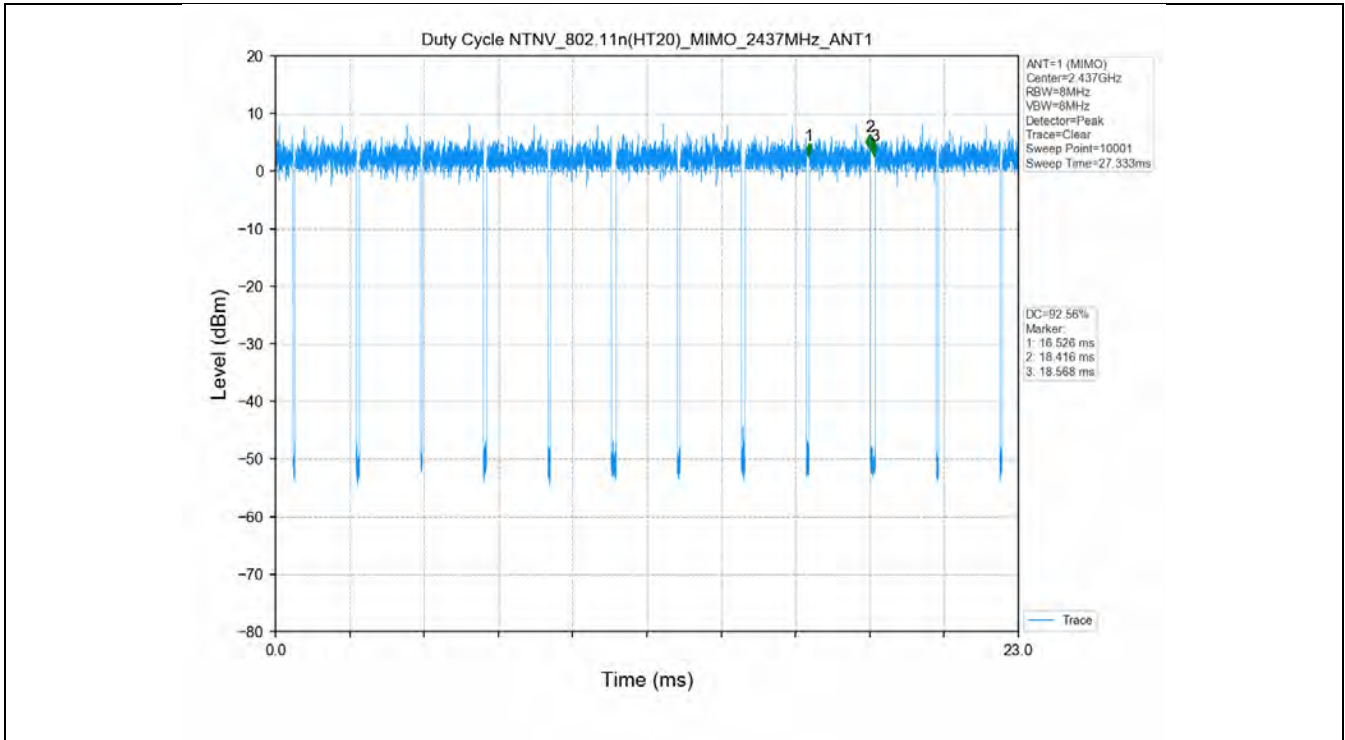
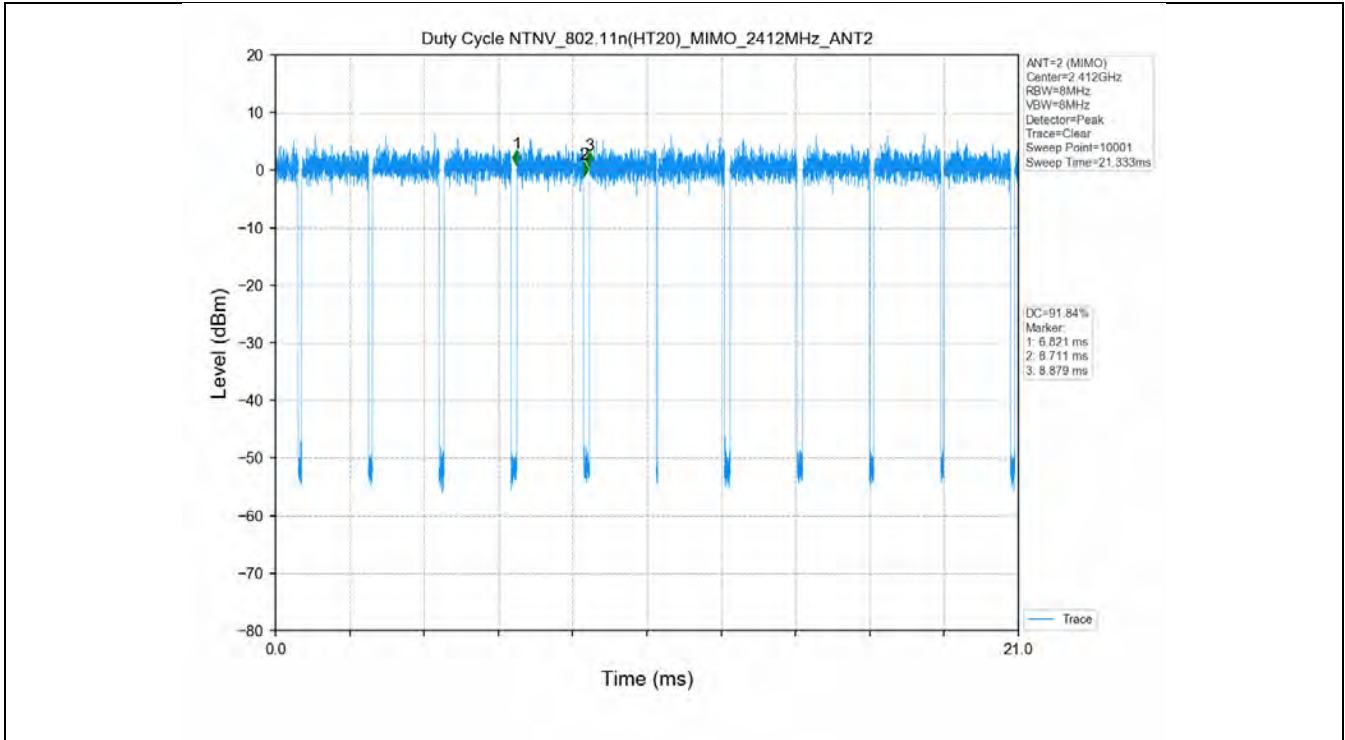


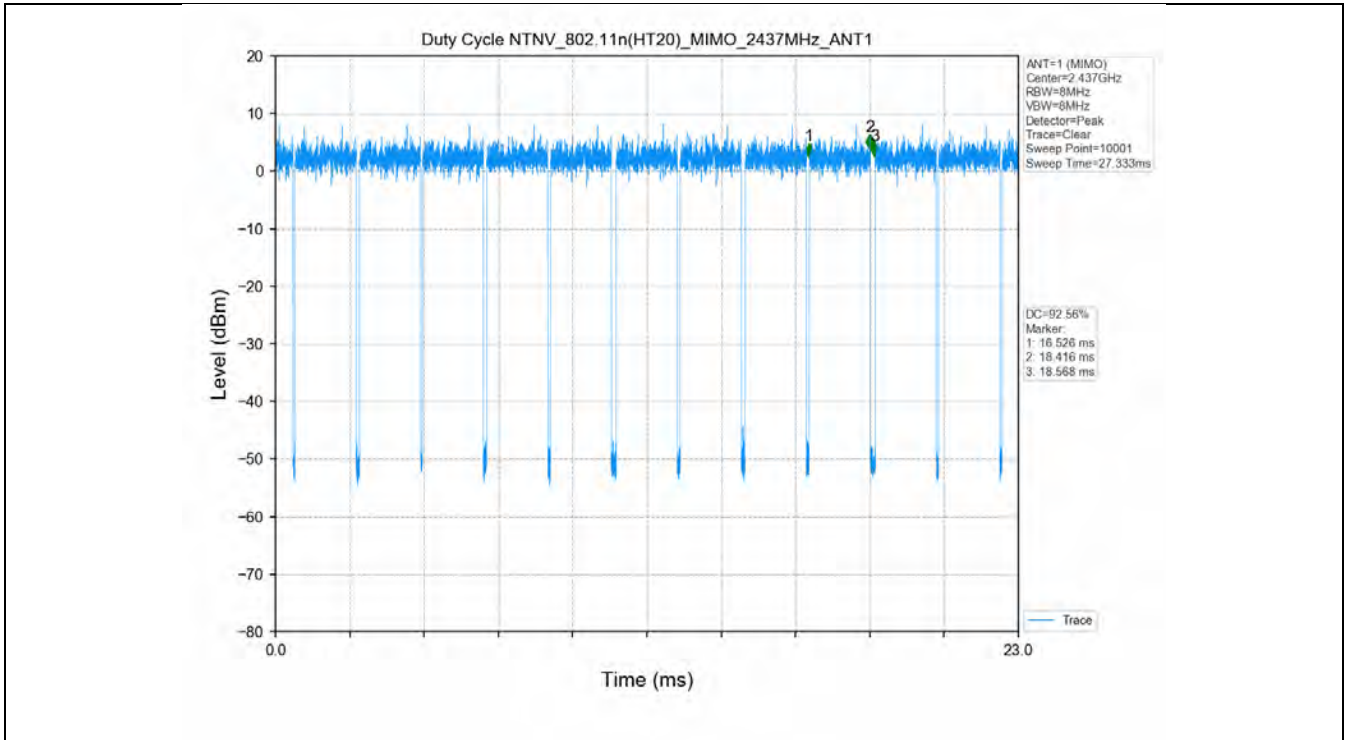
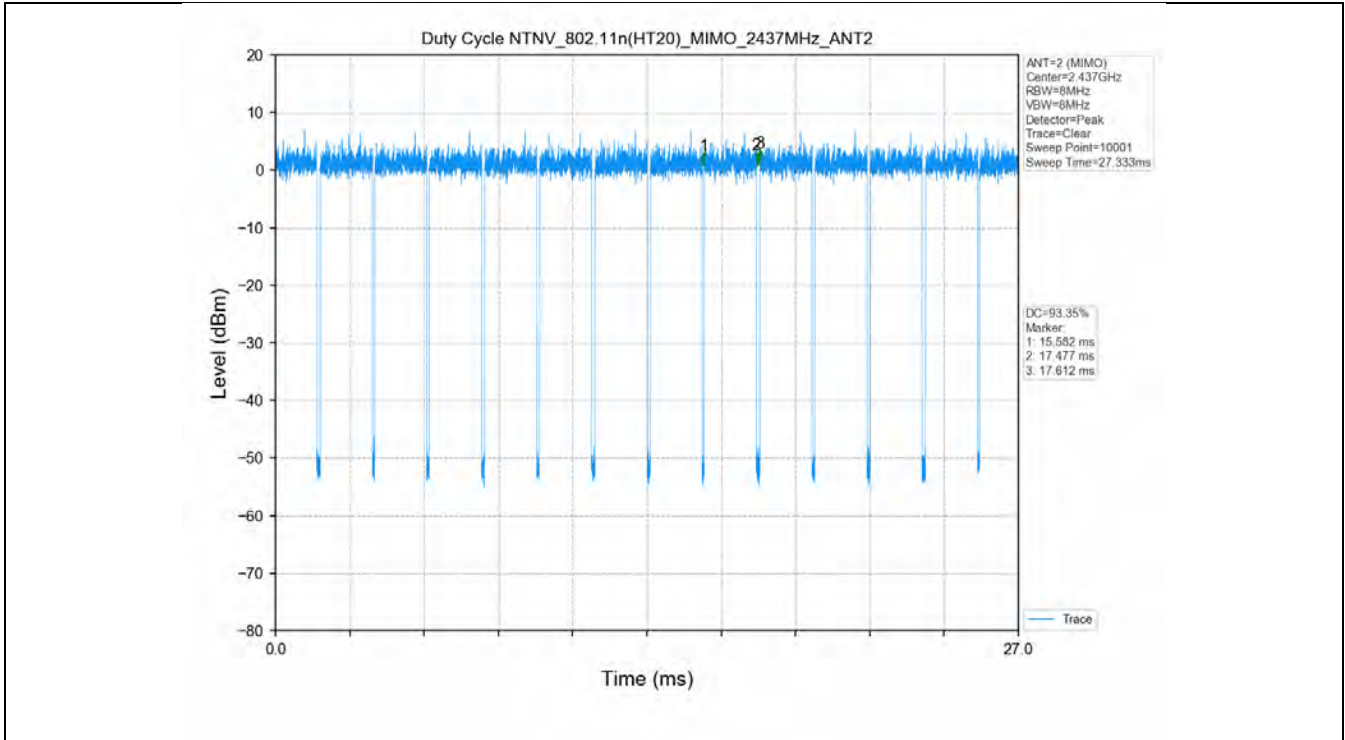


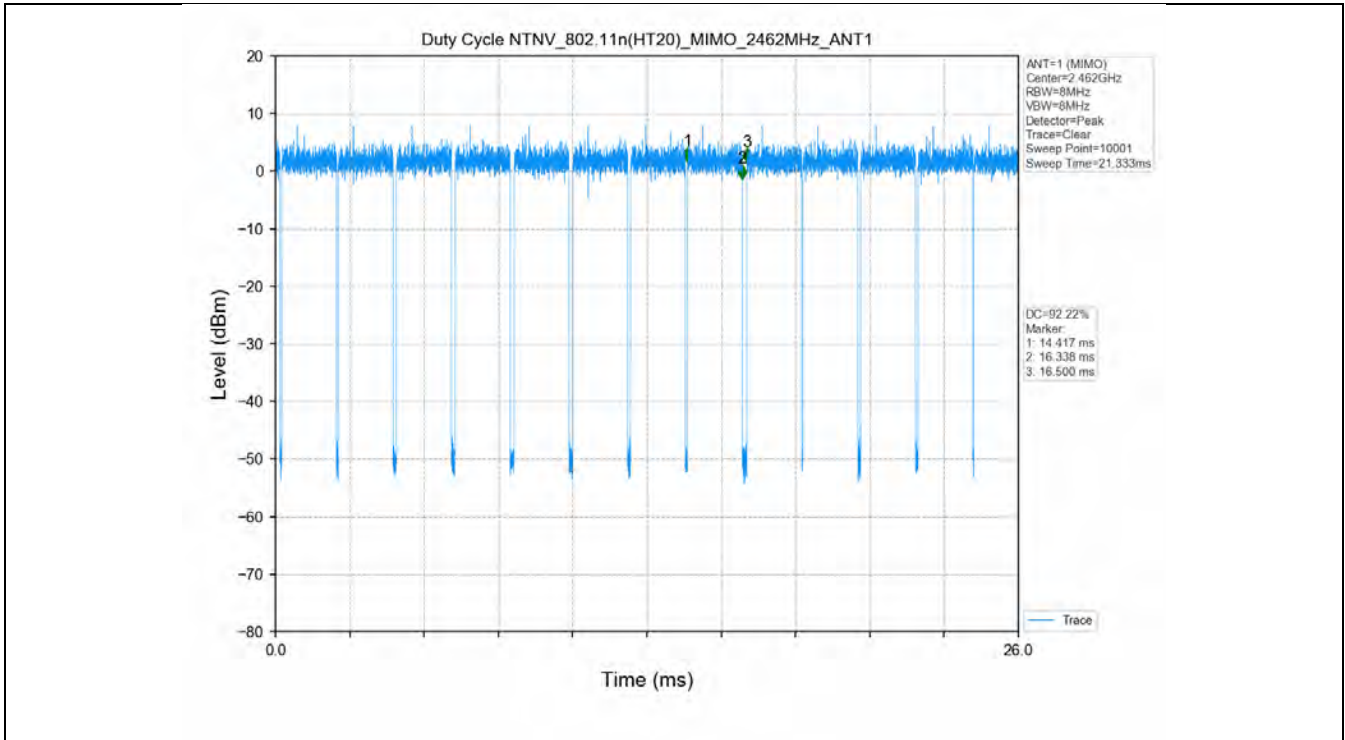
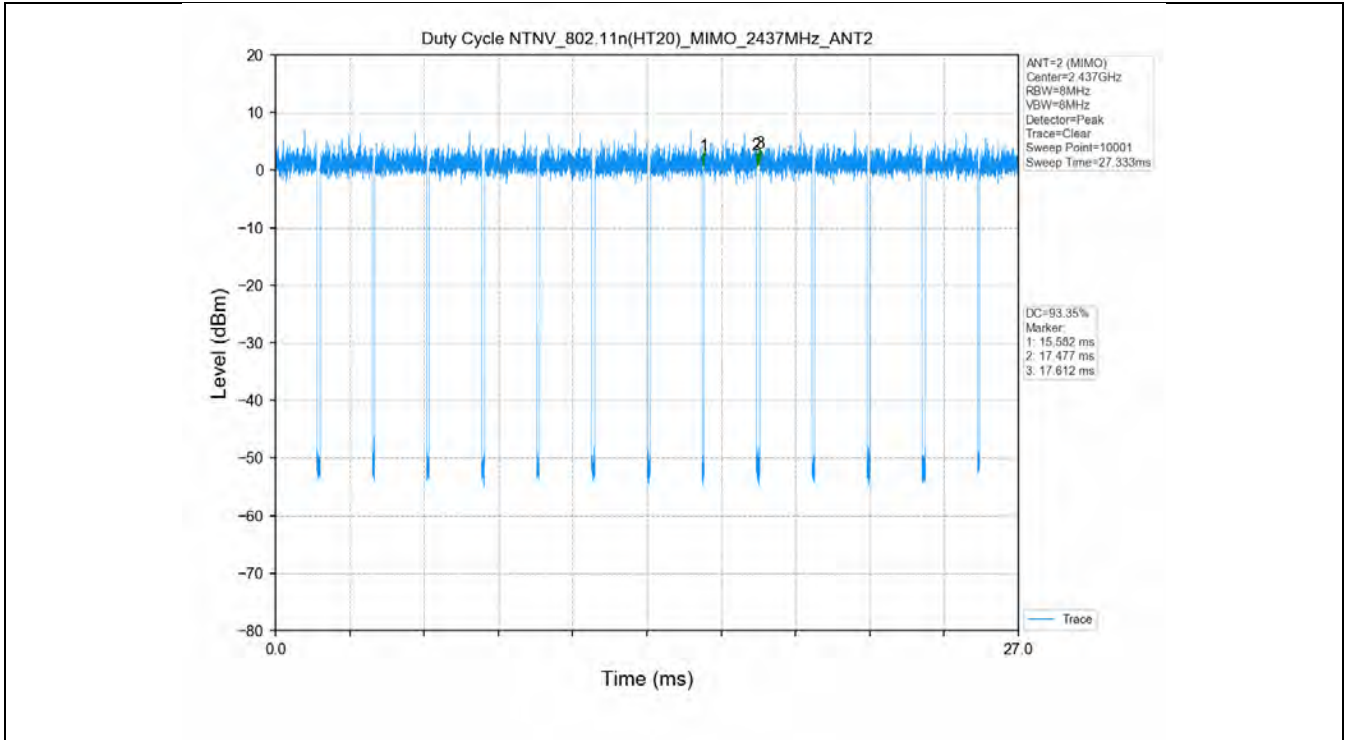


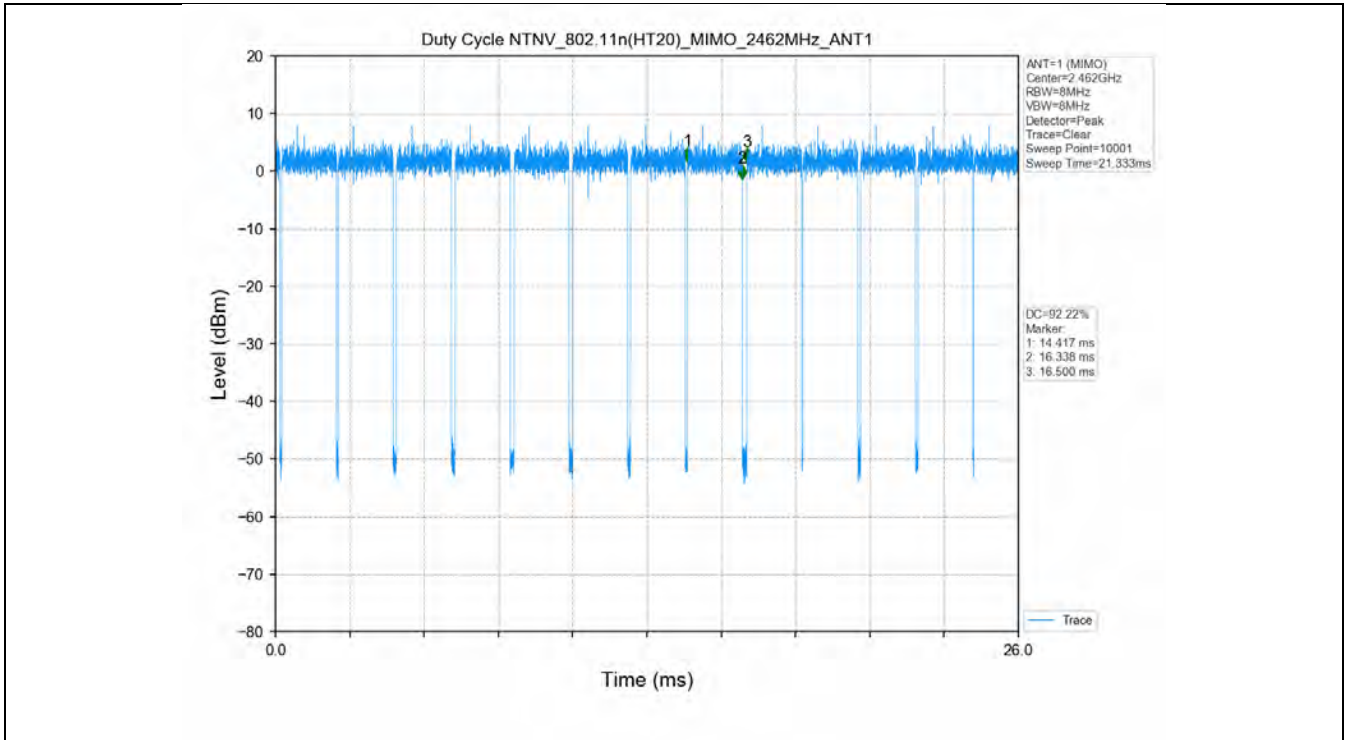
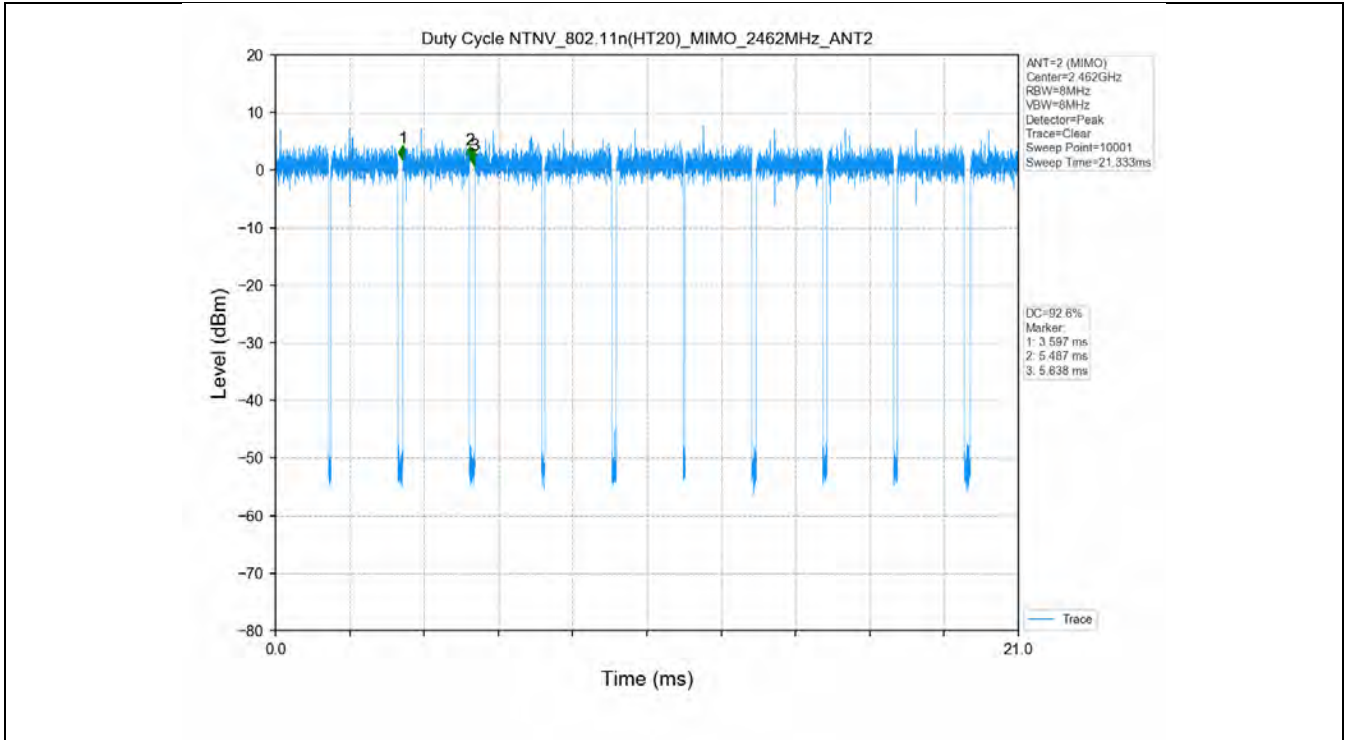


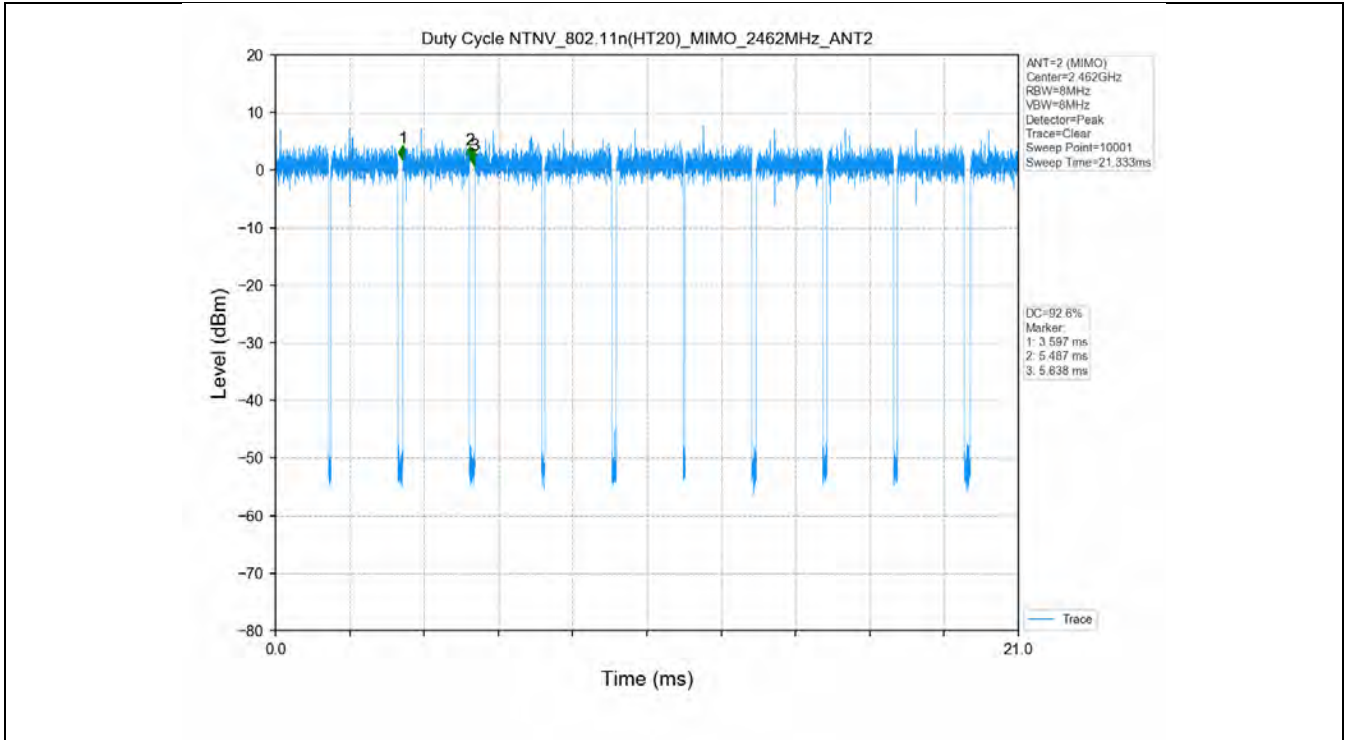












2. Bandwidth

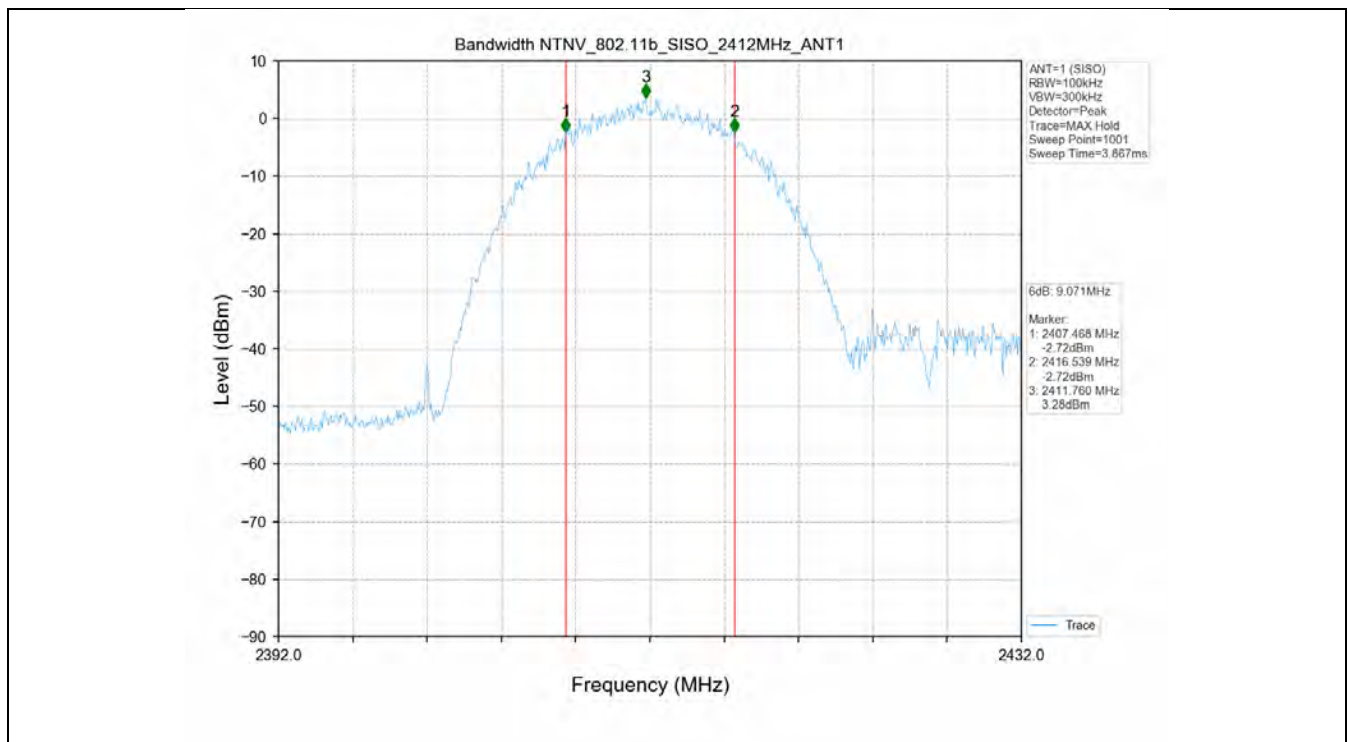
2.1 Test Result

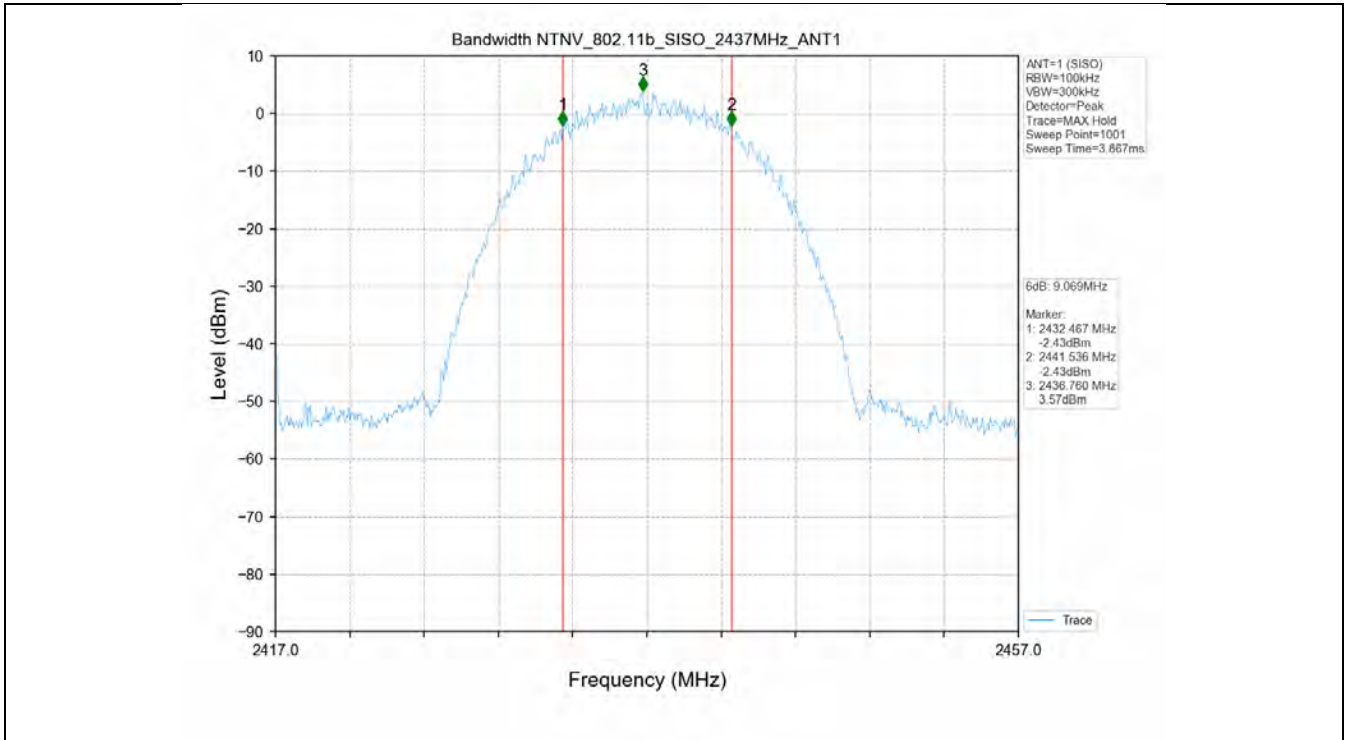
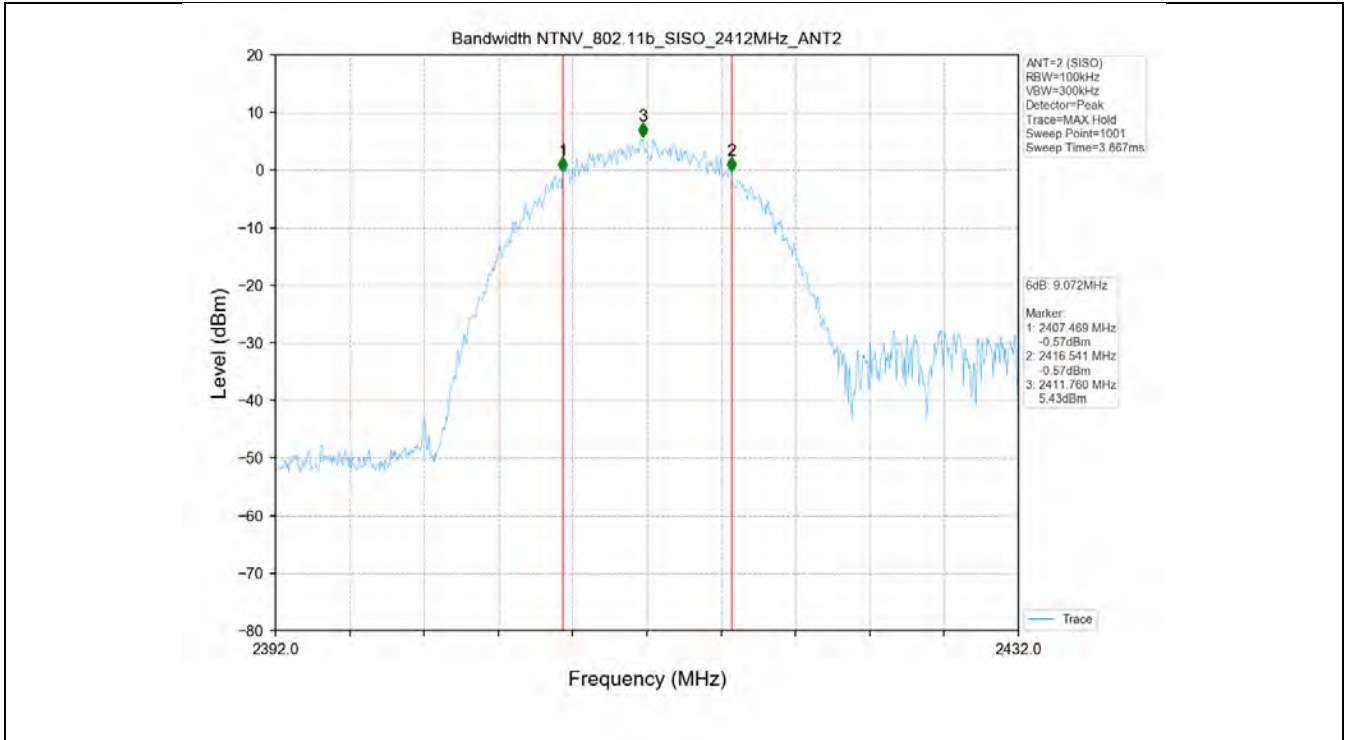
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	9.071	≥0.5	PASS
			2	9.072	≥0.5	PASS
	2437	SISO	1	9.069	≥0.5	PASS
			2	9.072	≥0.5	PASS
2462	SISO	1	9.055	≥0.5	PASS	
		2	8.857	≥0.5	PASS	
802.11g	2412	SISO	1	15.151	≥0.5	PASS
			2	15.109	≥0.5	PASS
	2437	SISO	1	15.150	≥0.5	PASS
			2	15.099	≥0.5	PASS
2462	SISO	1	15.143	≥0.5	PASS	
		2	15.121	≥0.5	PASS	
802.11n(HT20)	2412	MIMO	1	15.148	≥0.5	PASS
			2	15.116	≥0.5	PASS
	2437	MIMO	1	15.158	≥0.5	PASS
			2	15.119	≥0.5	PASS
2462	MIMO	1	15.991	≥0.5	PASS	
		2	15.119	≥0.5	PASS	

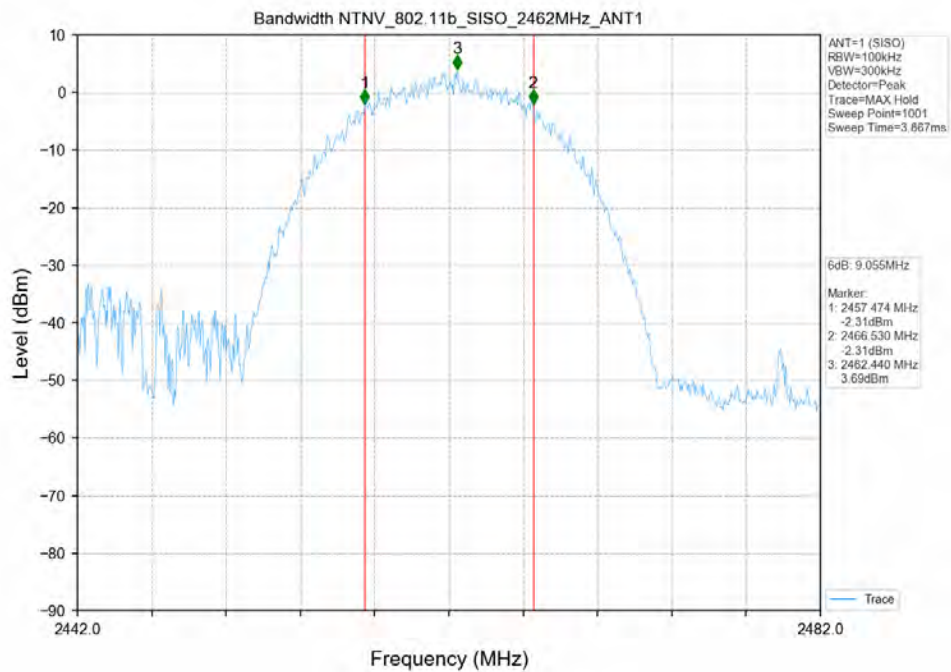
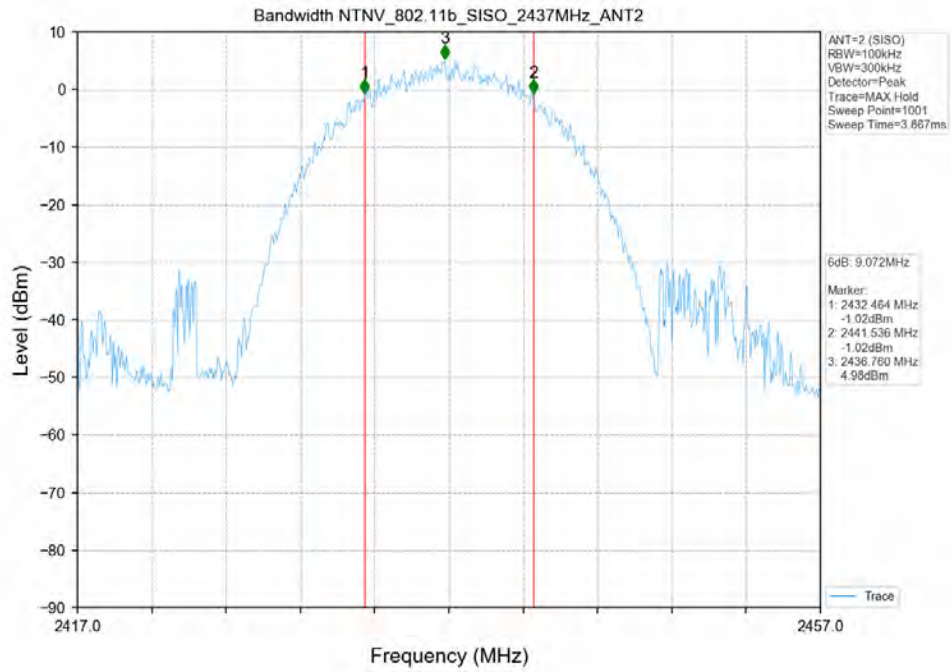
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	

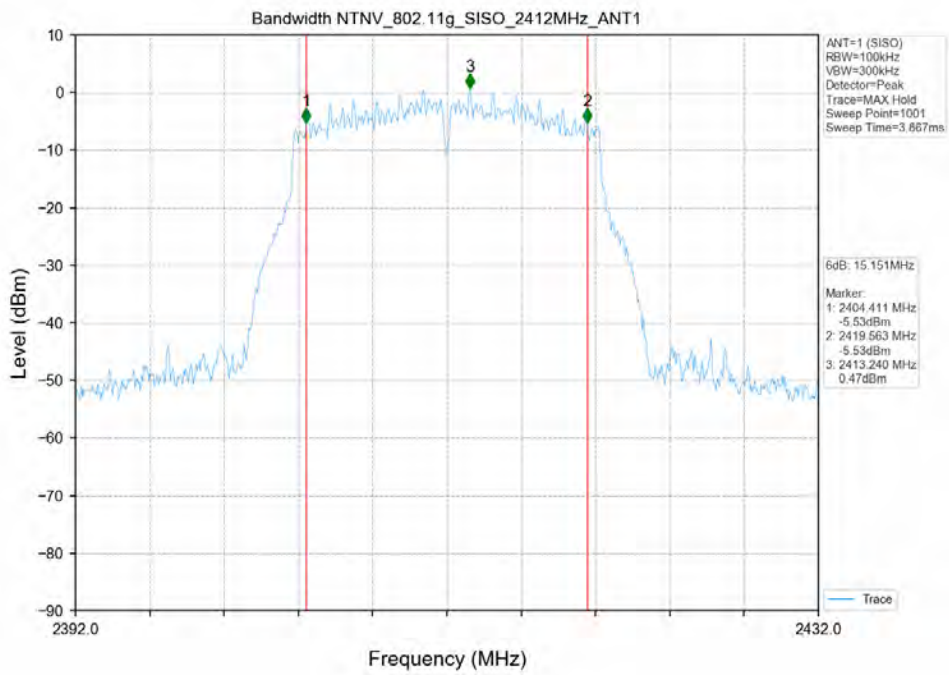
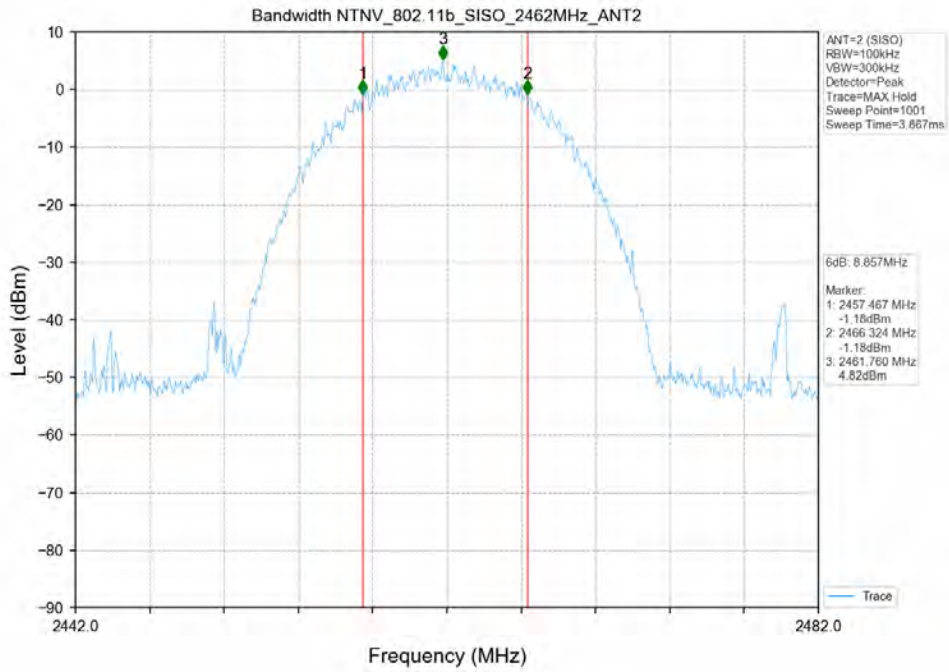
802.11b	2412	SISO	1	13.936	Only for Report Use
			2	14.005	Only for Report Use
	2437	SISO	1	13.910	Only for Report Use
			2	13.887	Only for Report Use
	2462	SISO	1	13.932	Only for Report Use
			2	13.901	Only for Report Use
802.11g	2412	SISO	1	16.476	Only for Report Use
			2	16.415	Only for Report Use
	2437	SISO	1	16.459	Only for Report Use
			2	16.405	Only for Report Use
	2462	SISO	1	16.480	Only for Report Use
			2	16.434	Only for Report Use
802.11n(HT20)	2412	MIMO	1	17.642	Only for Report Use
			2	17.583	Only for Report Use
	2437	MIMO	1	17.613	Only for Report Use
			2	17.591	Only for Report Use
	2462	MIMO	1	17.613	Only for Report Use
			2	17.652	Only for Report Use

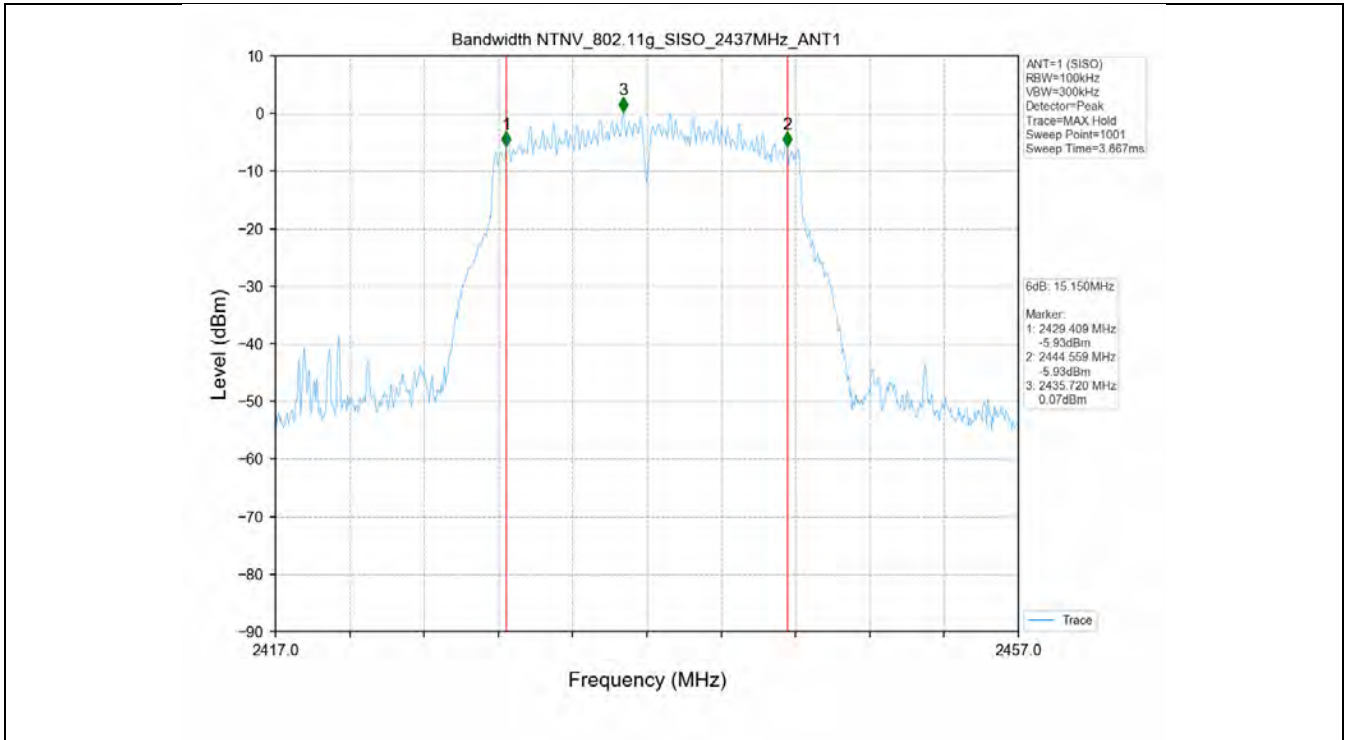
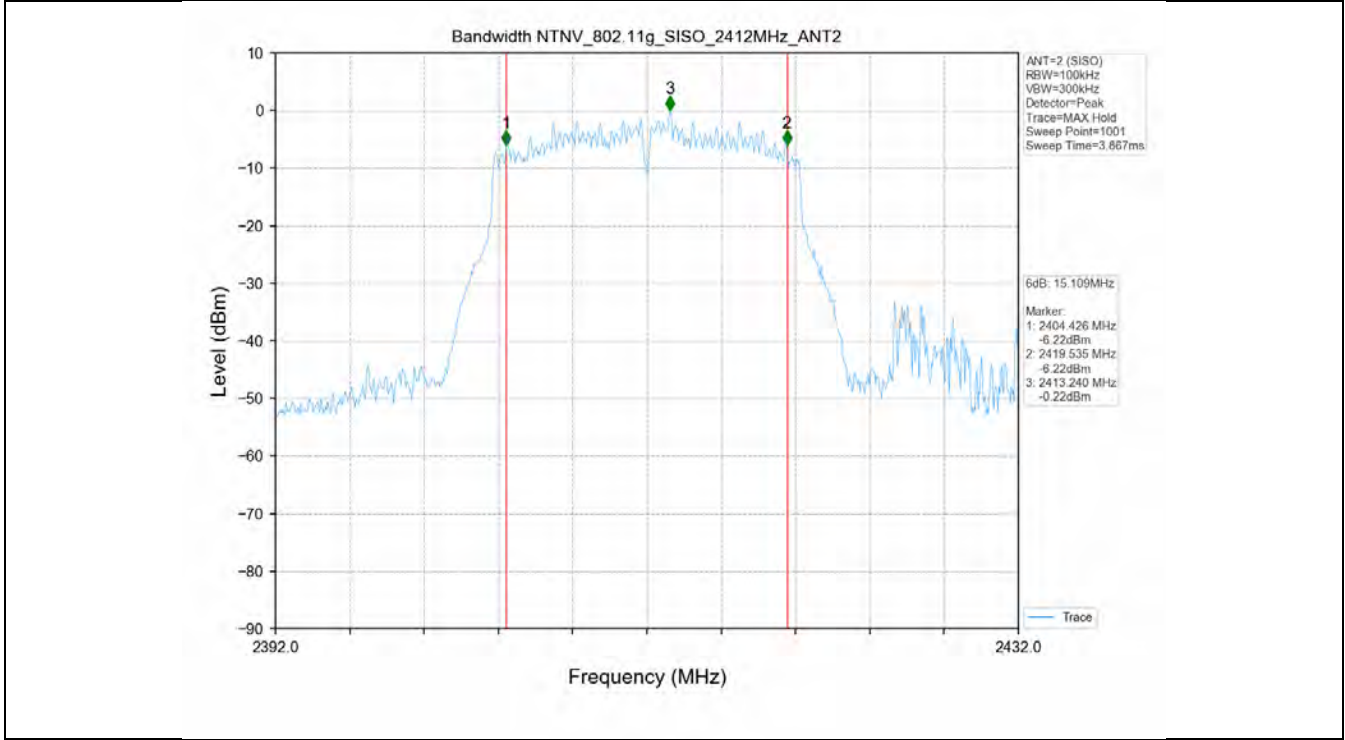
2.2 Test Graph - 6dB Bandwidth

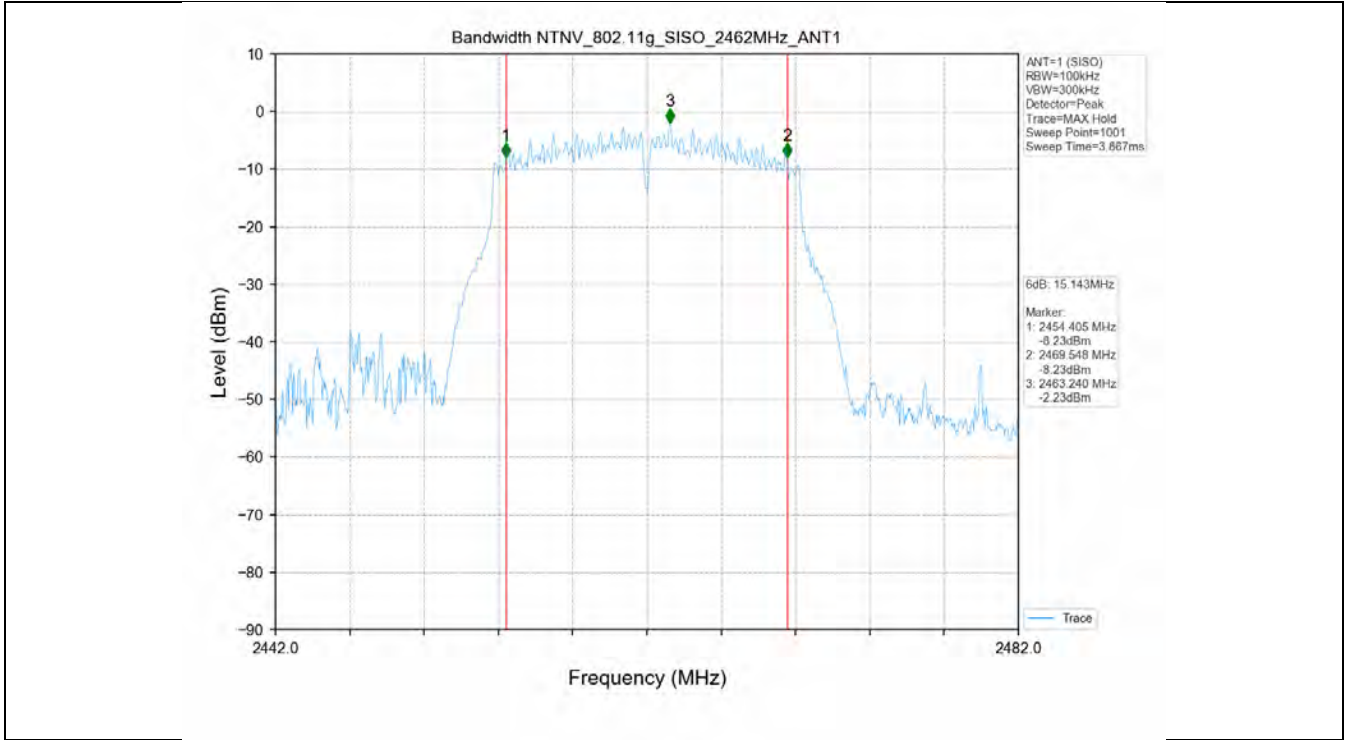
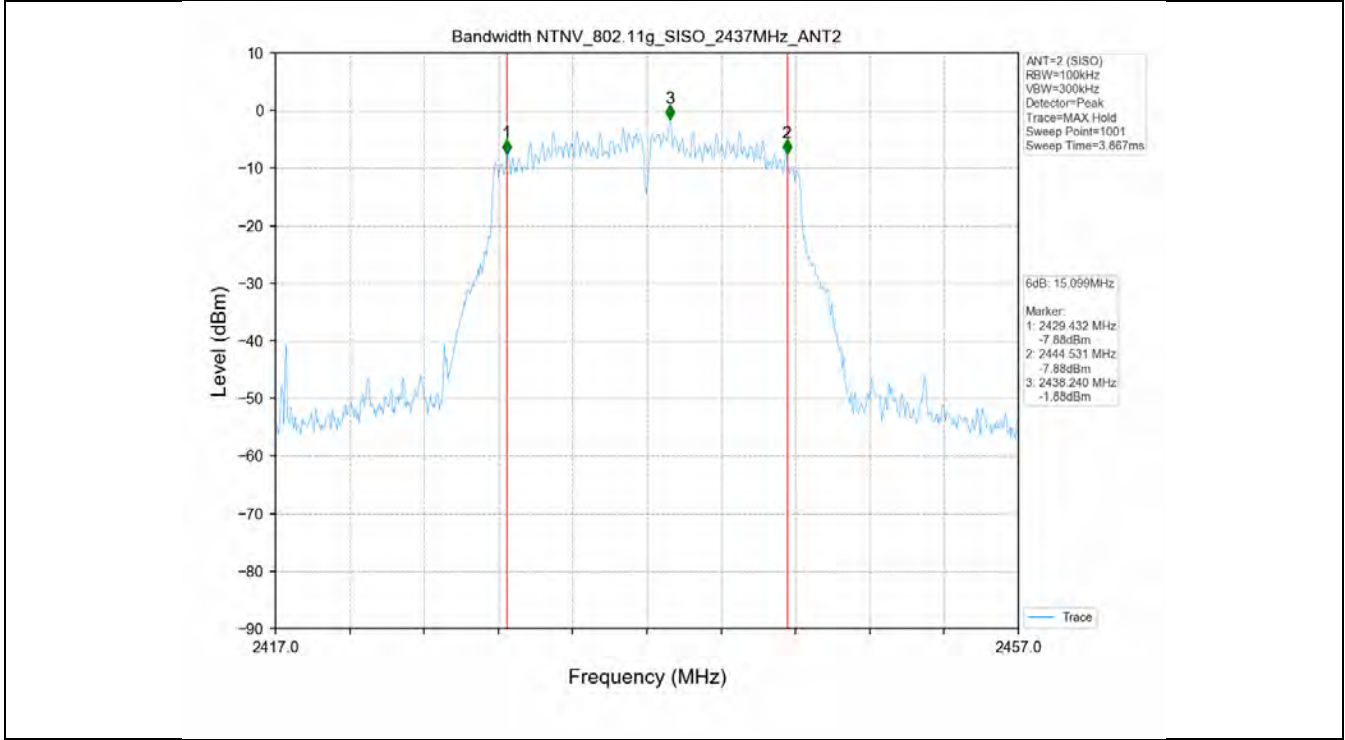


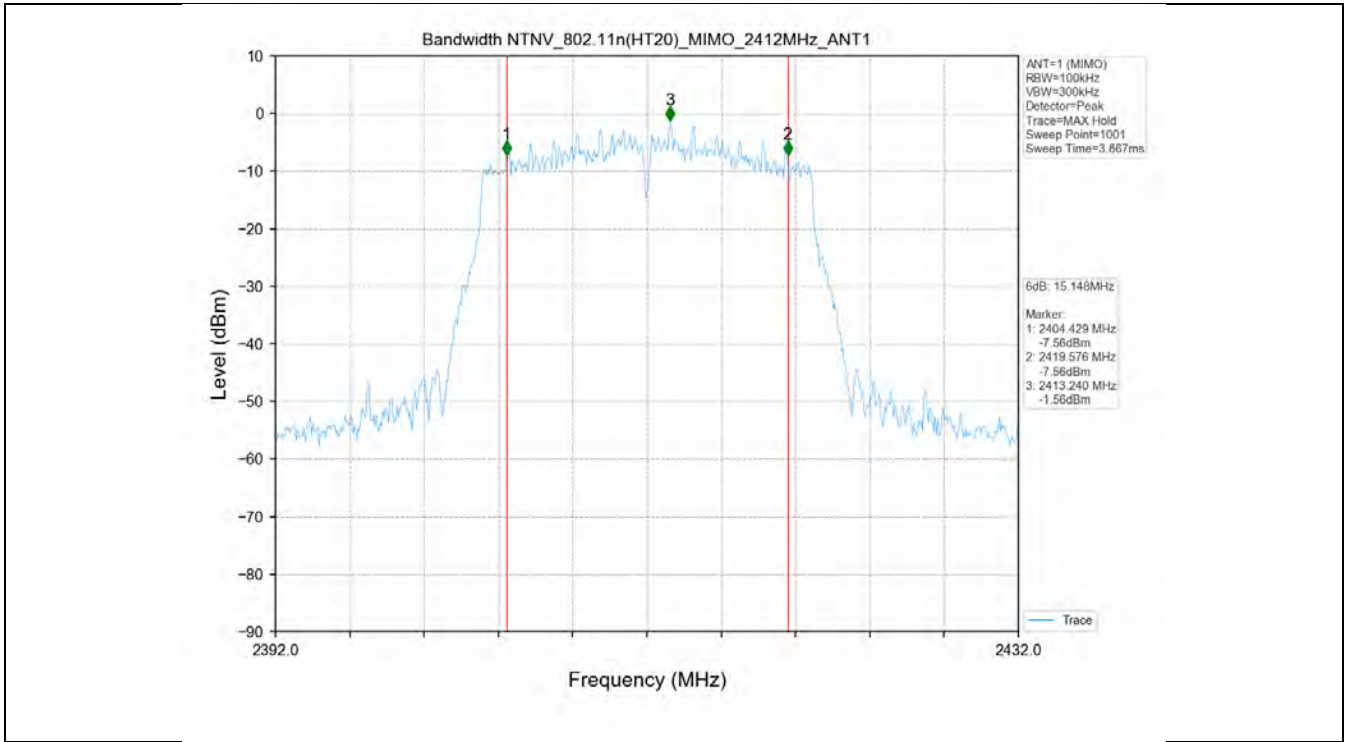
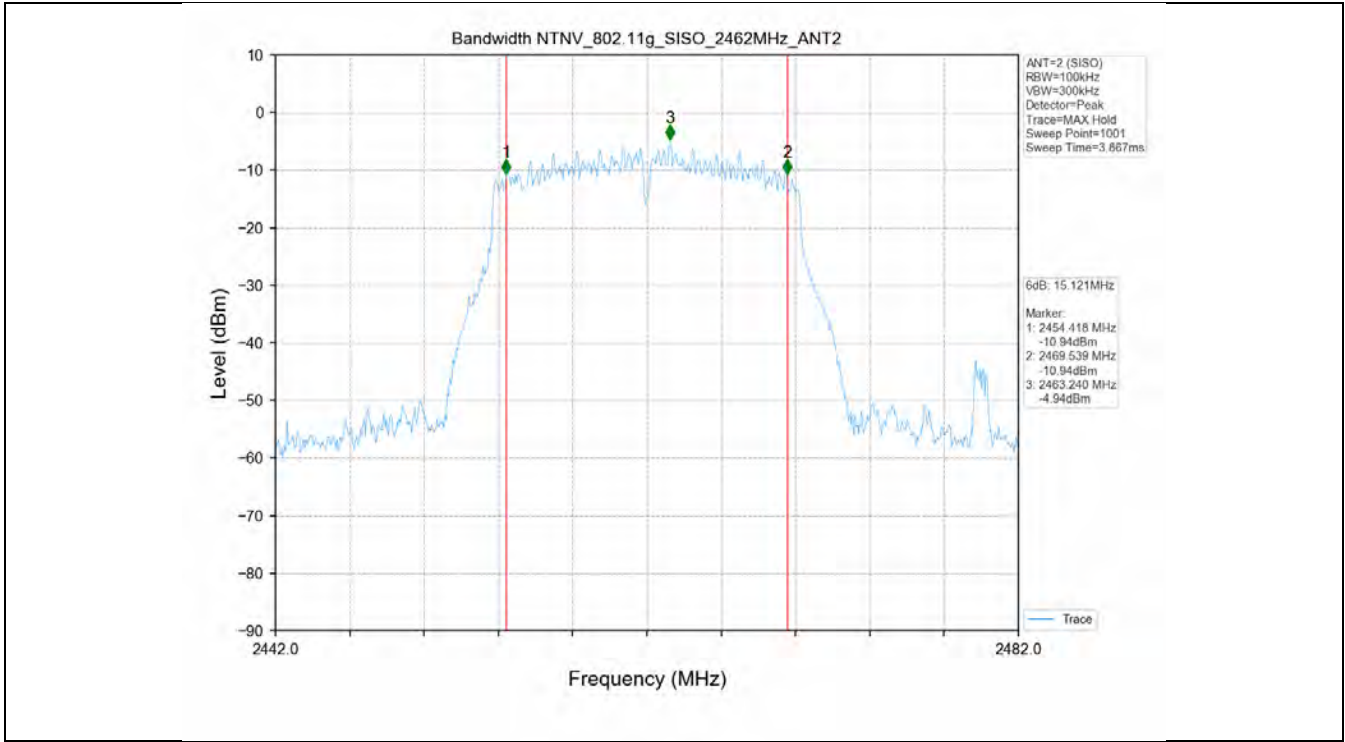


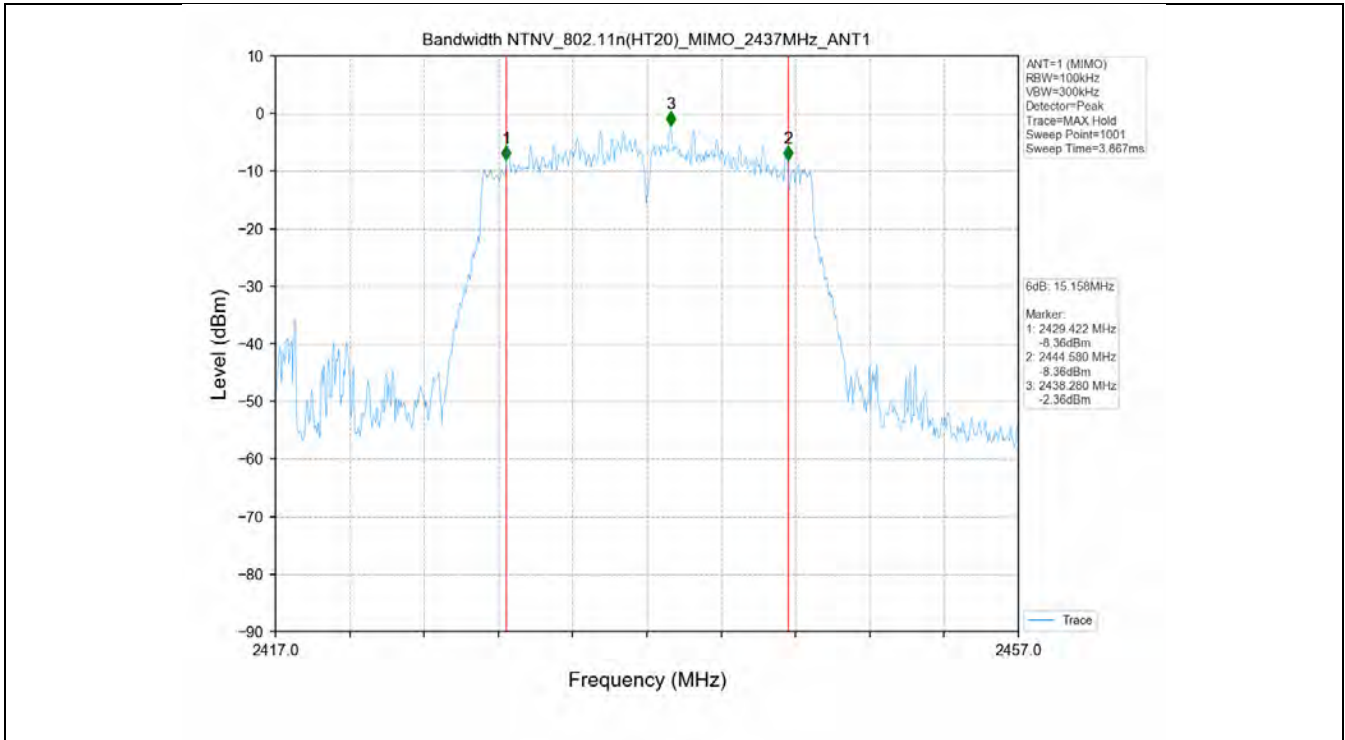
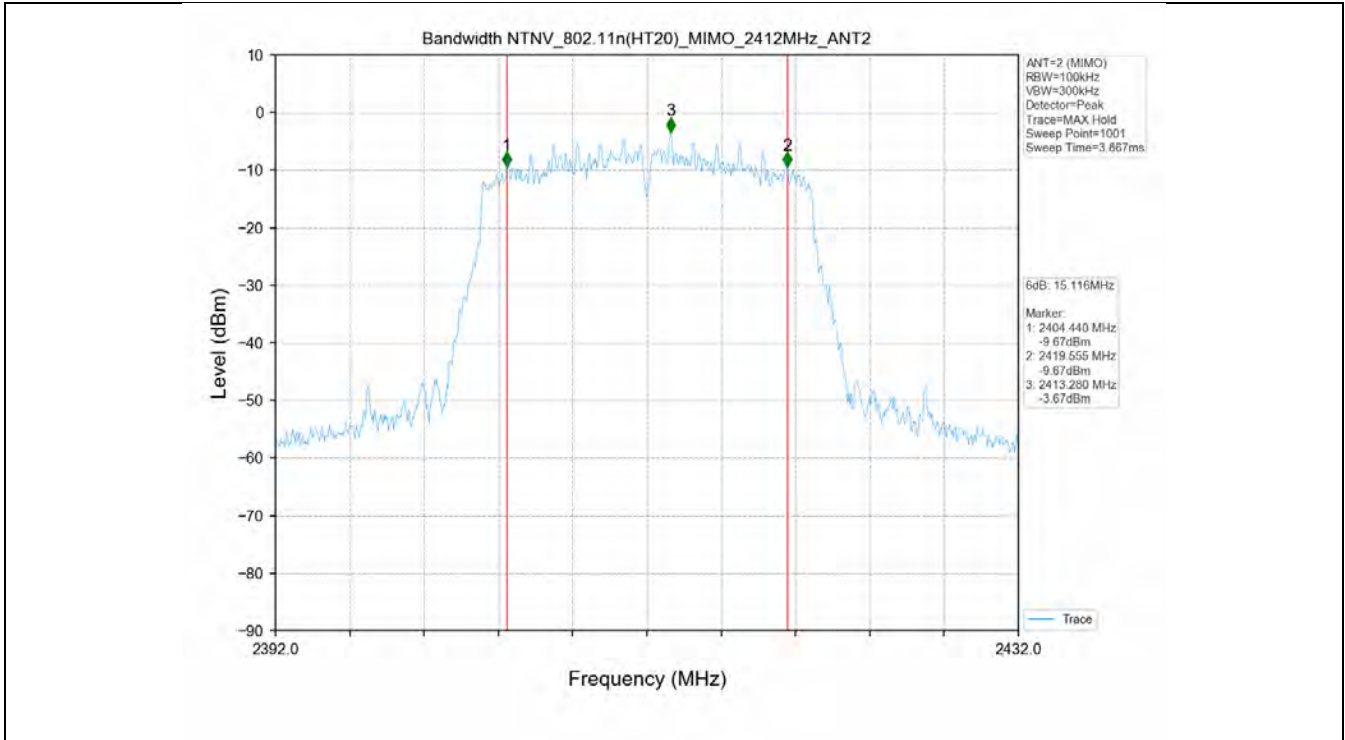


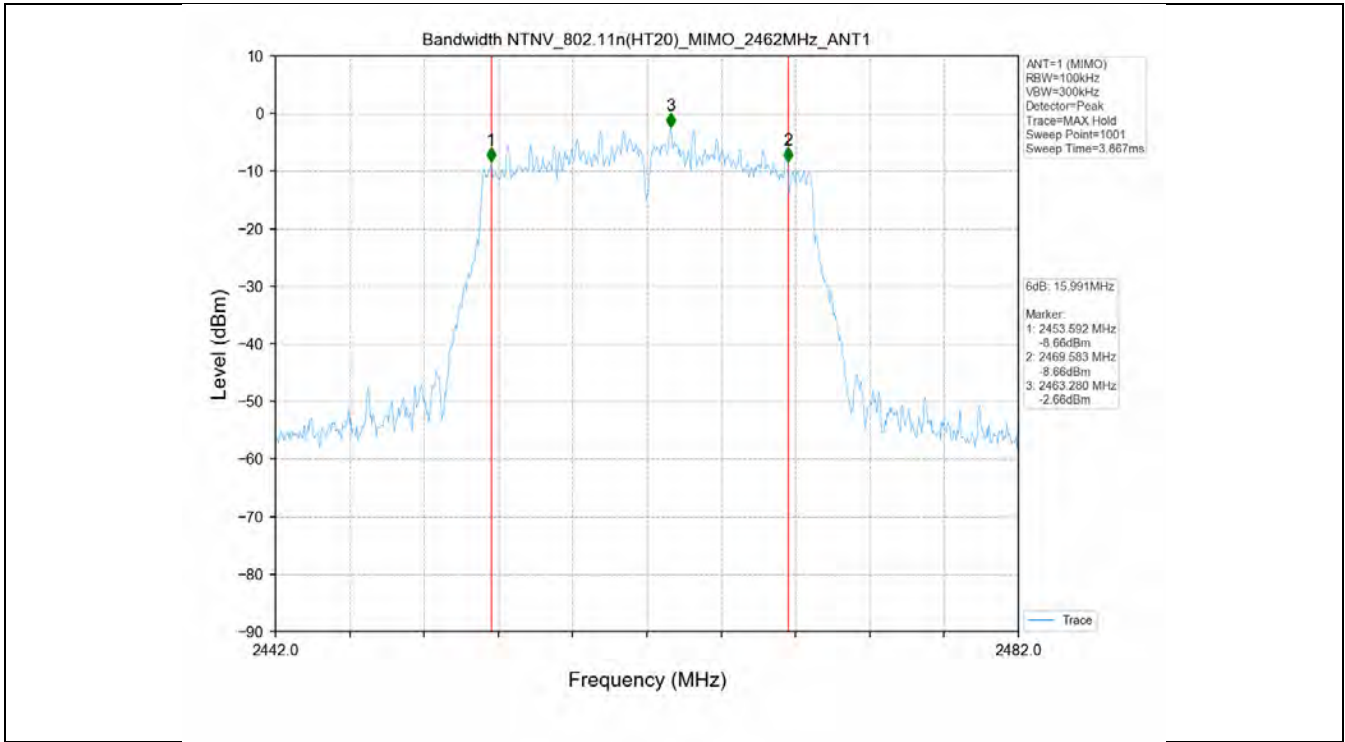
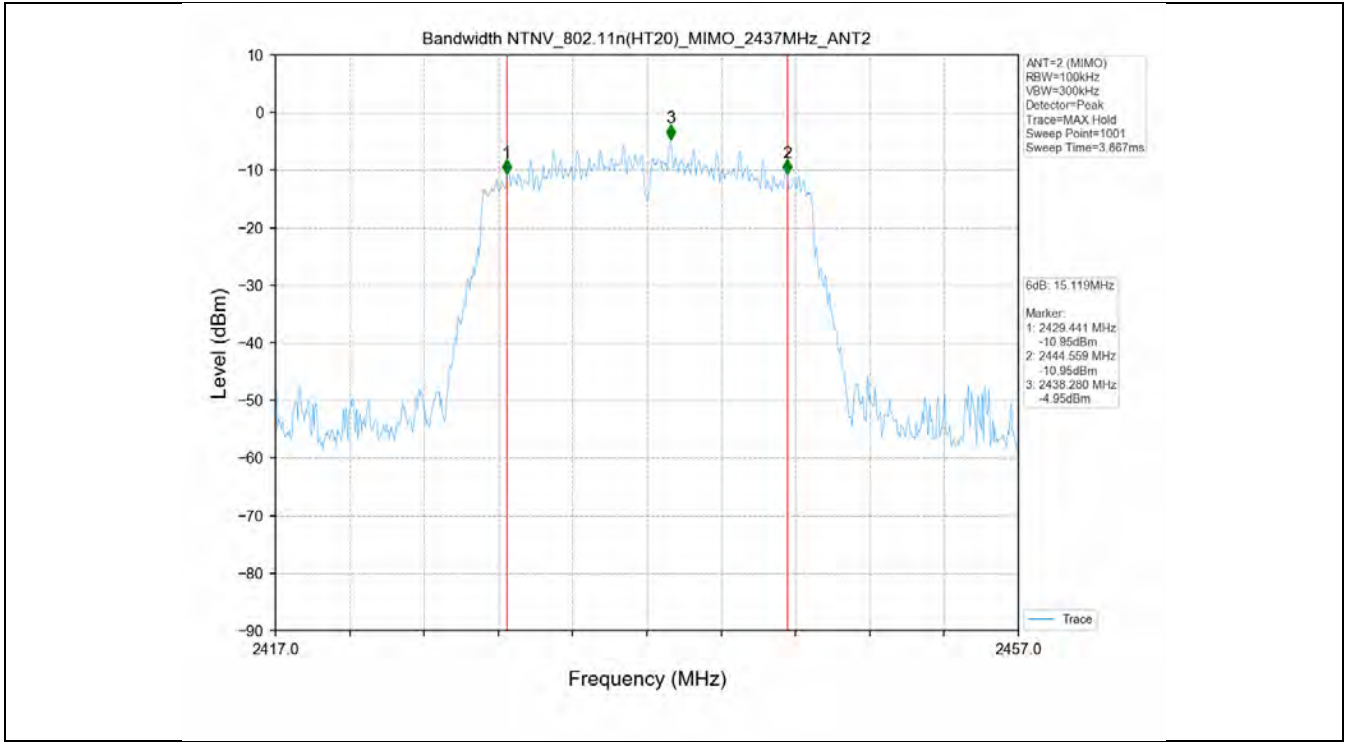


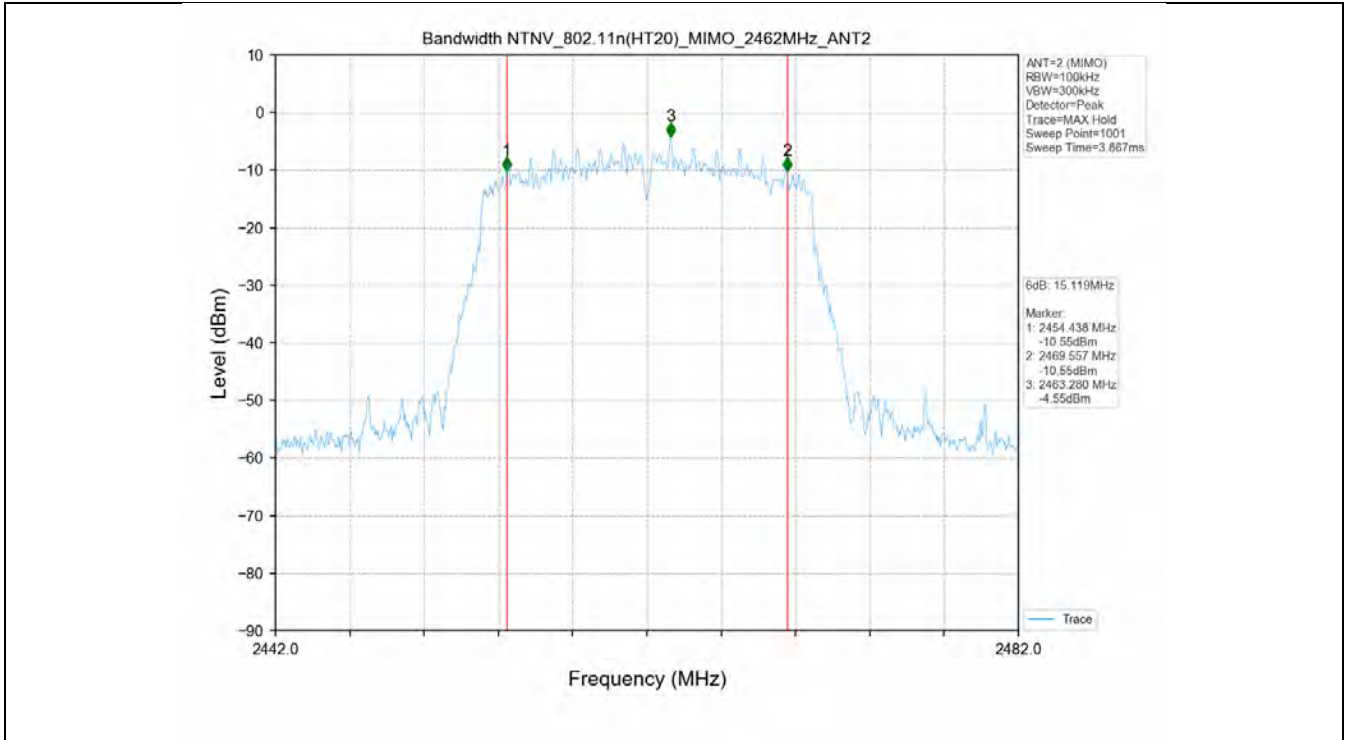




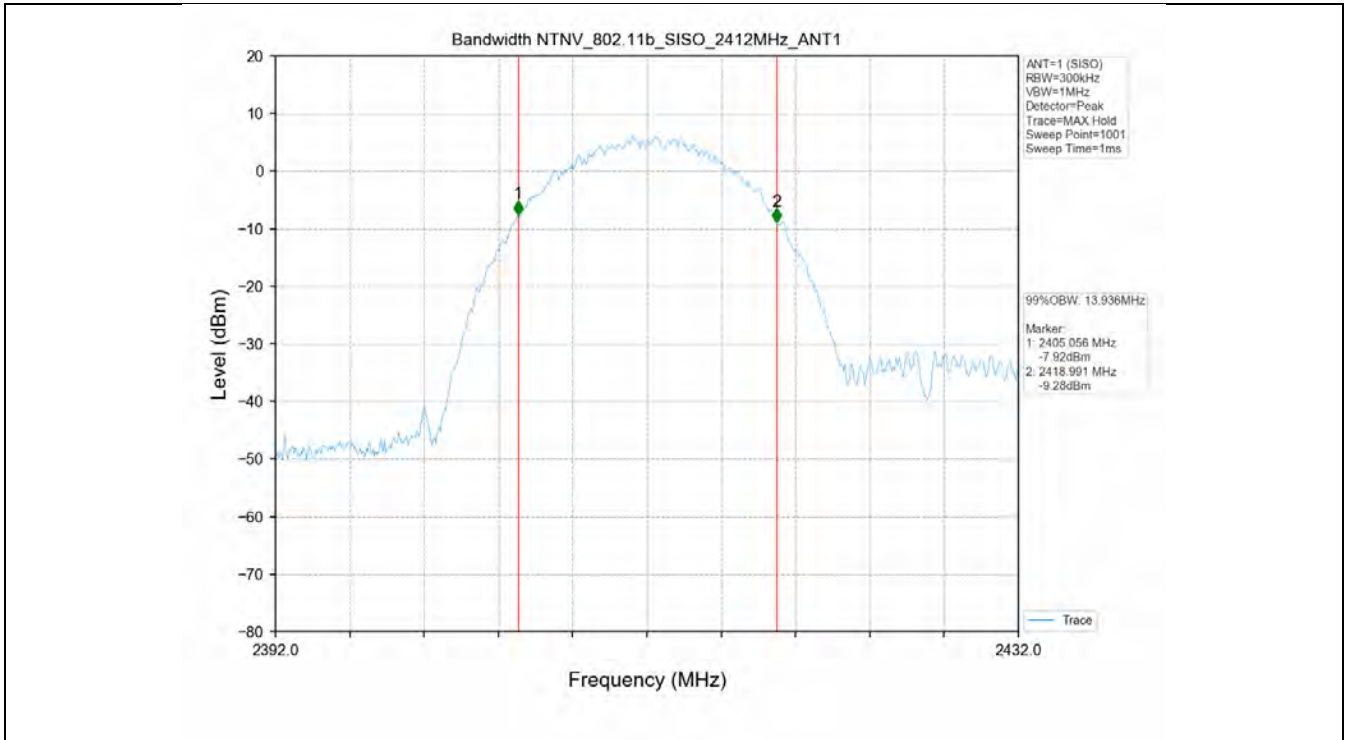


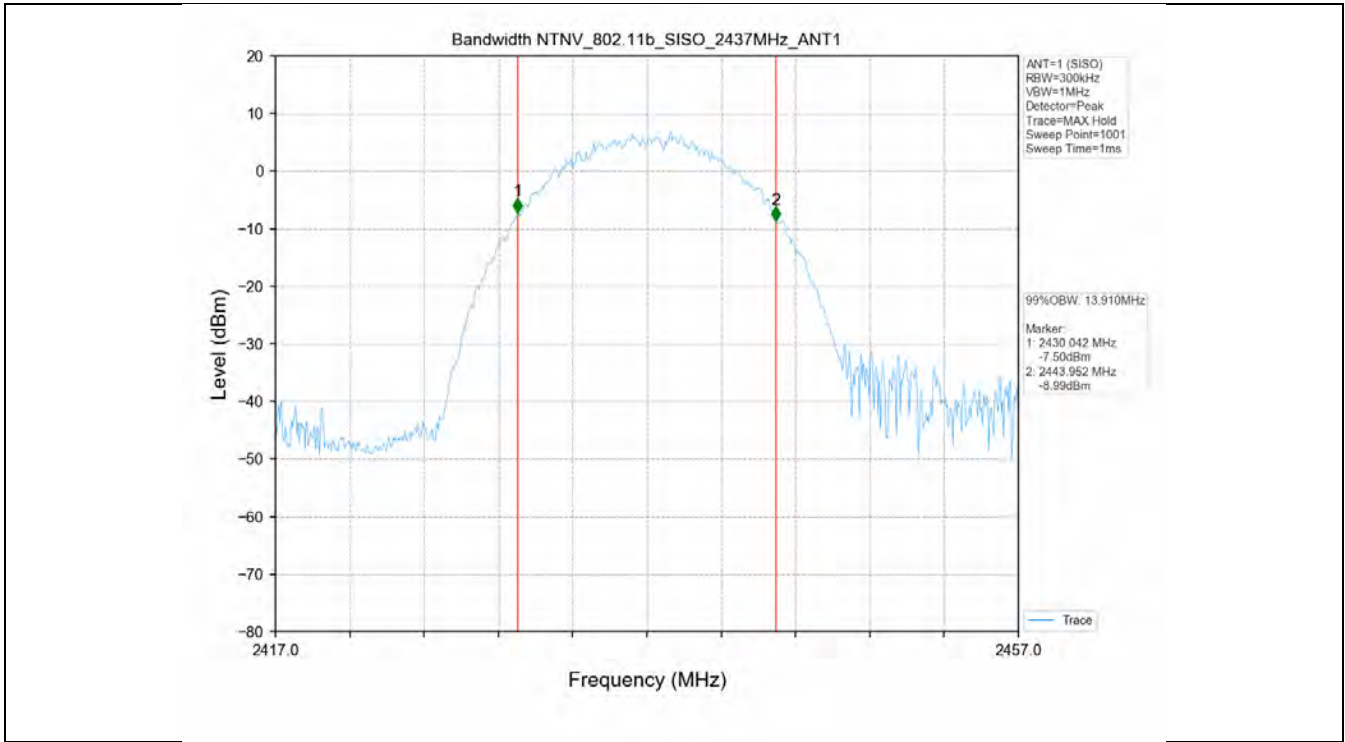
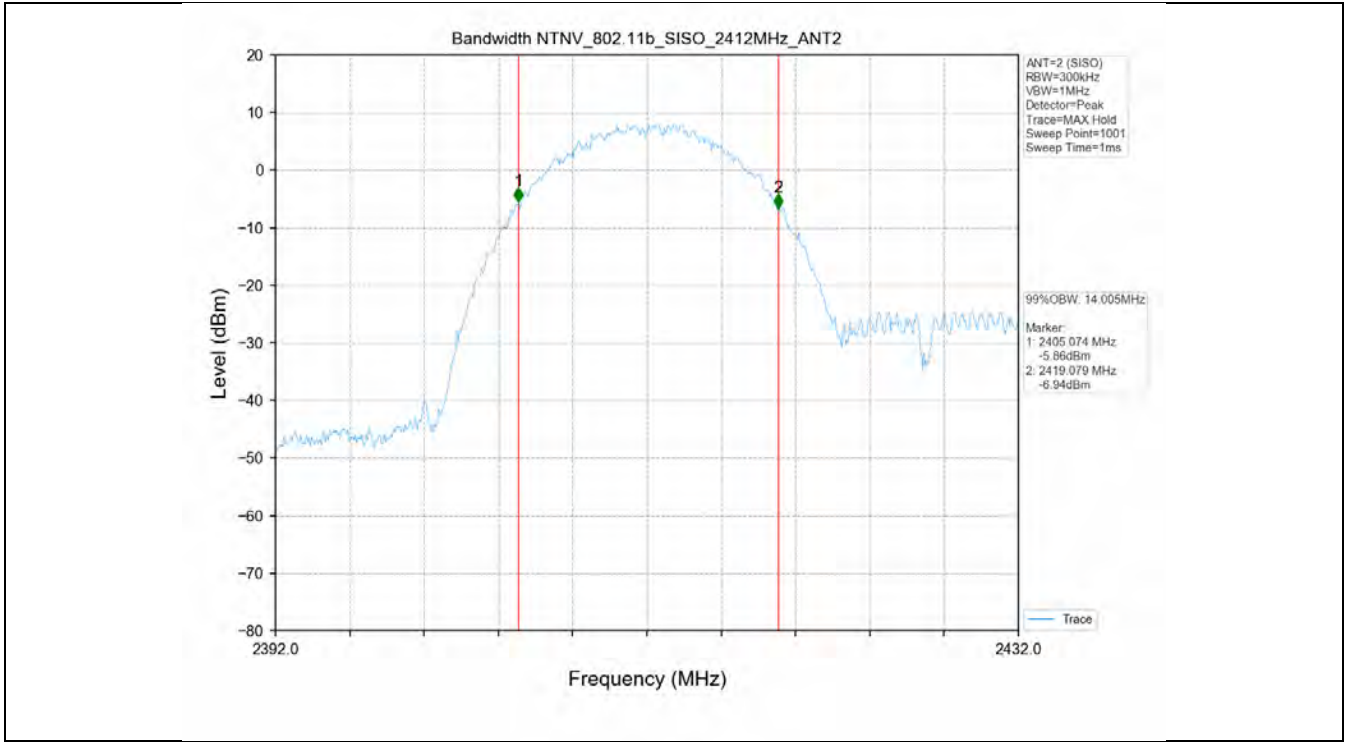


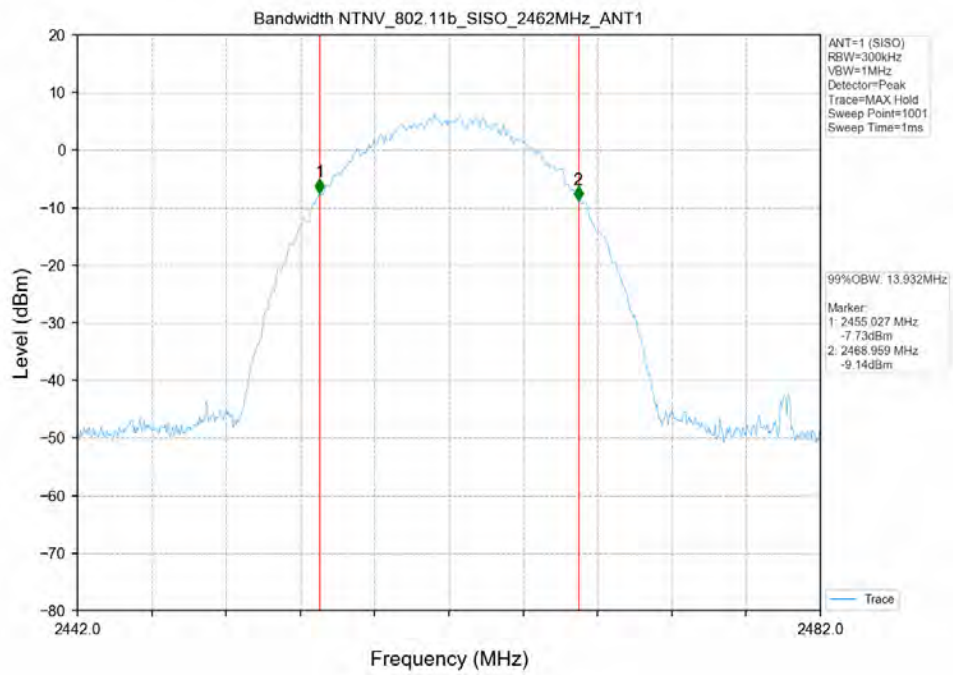
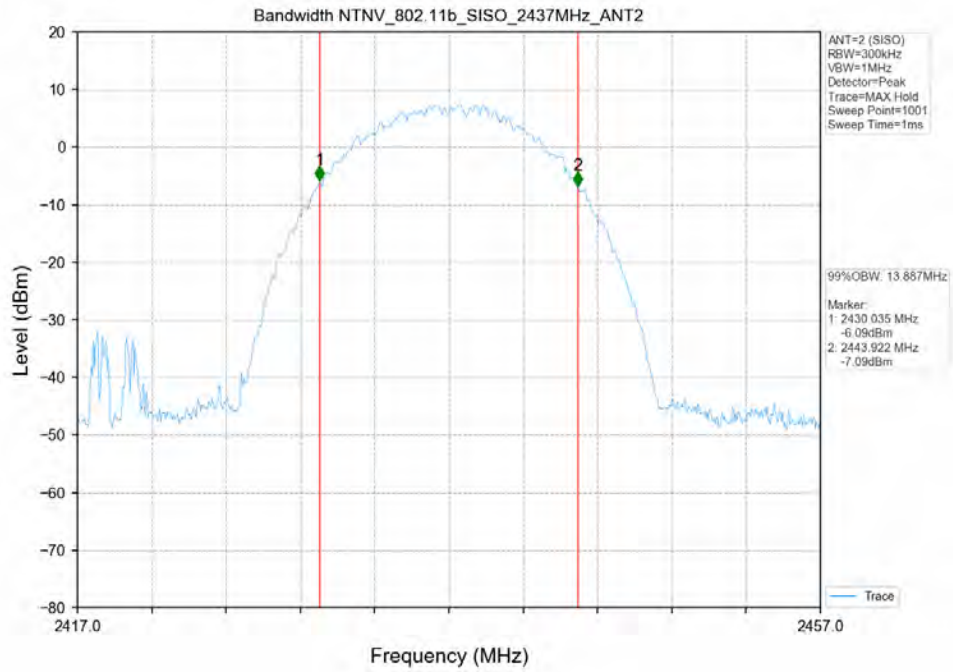


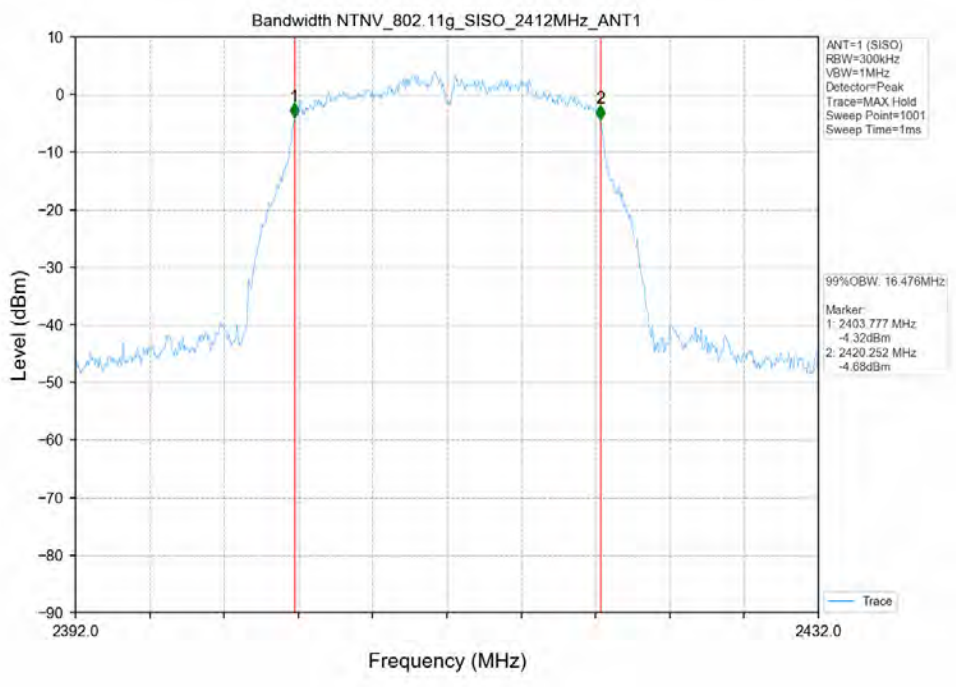
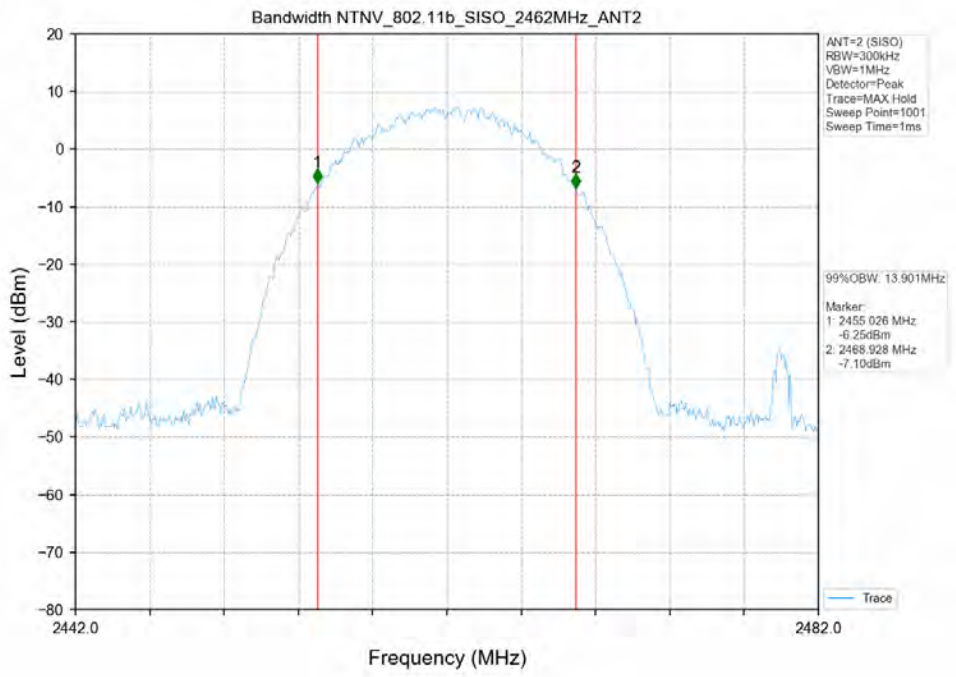


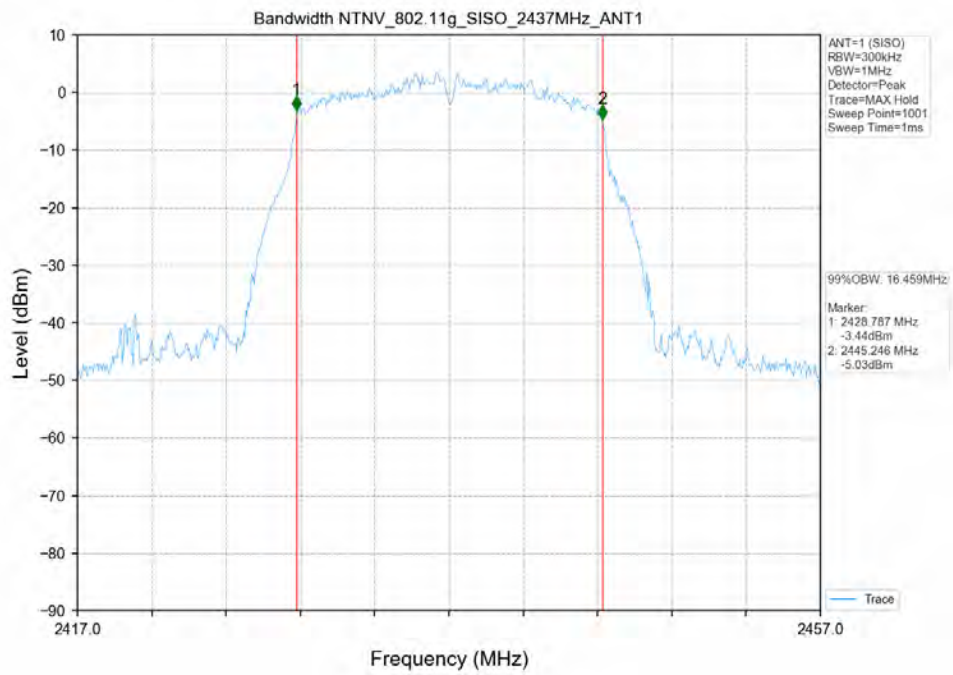
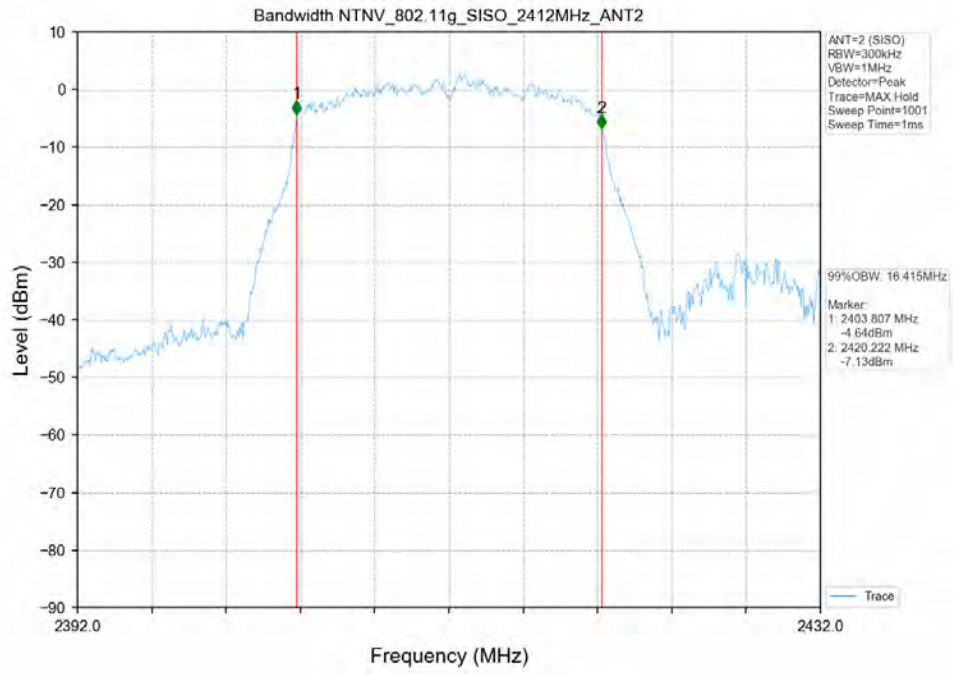
2.3 Test Graph - 99% Occupied Bandwidth

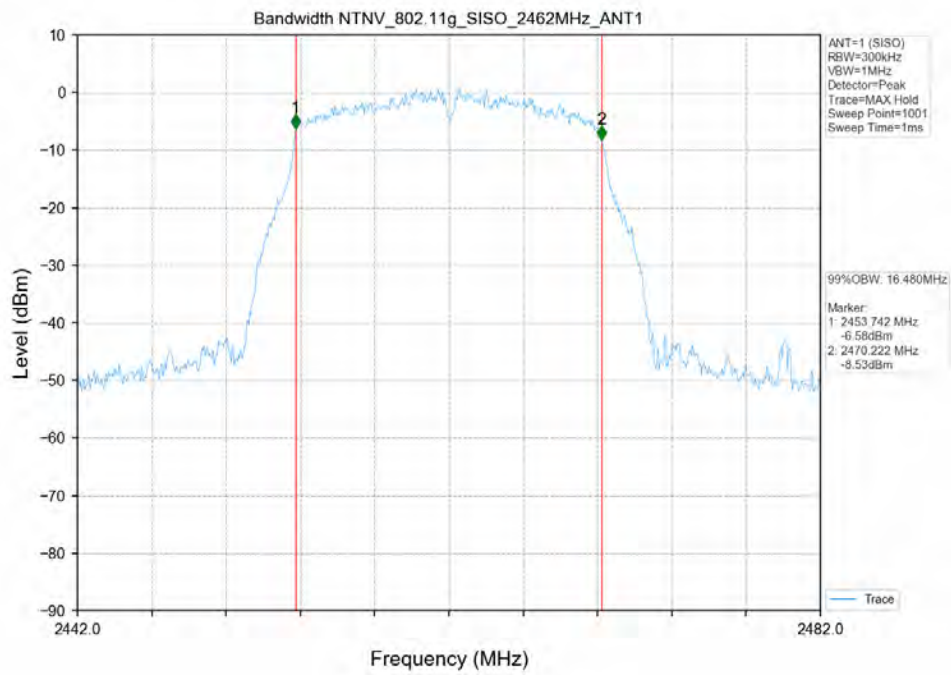
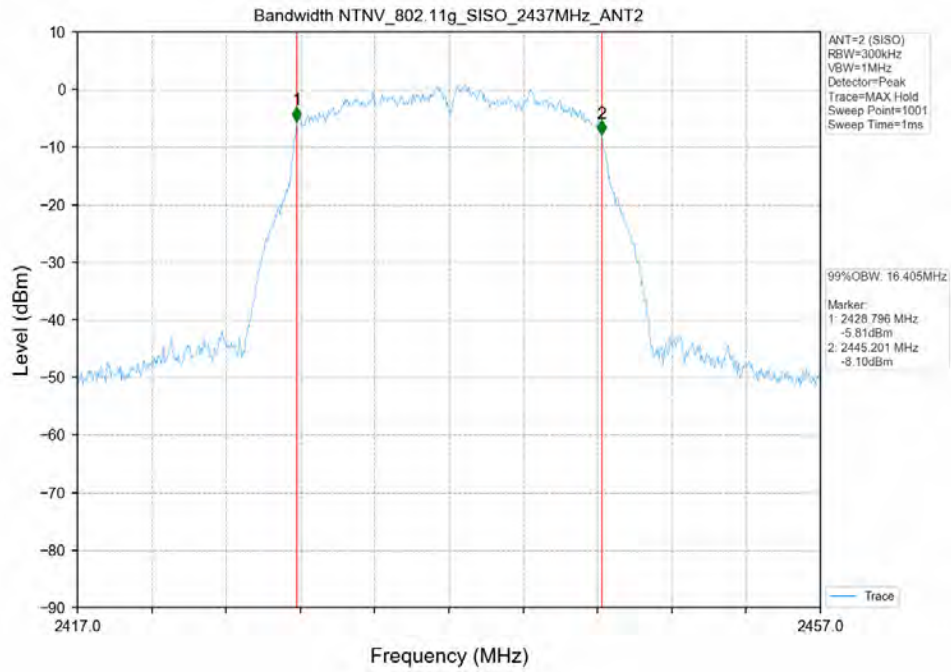


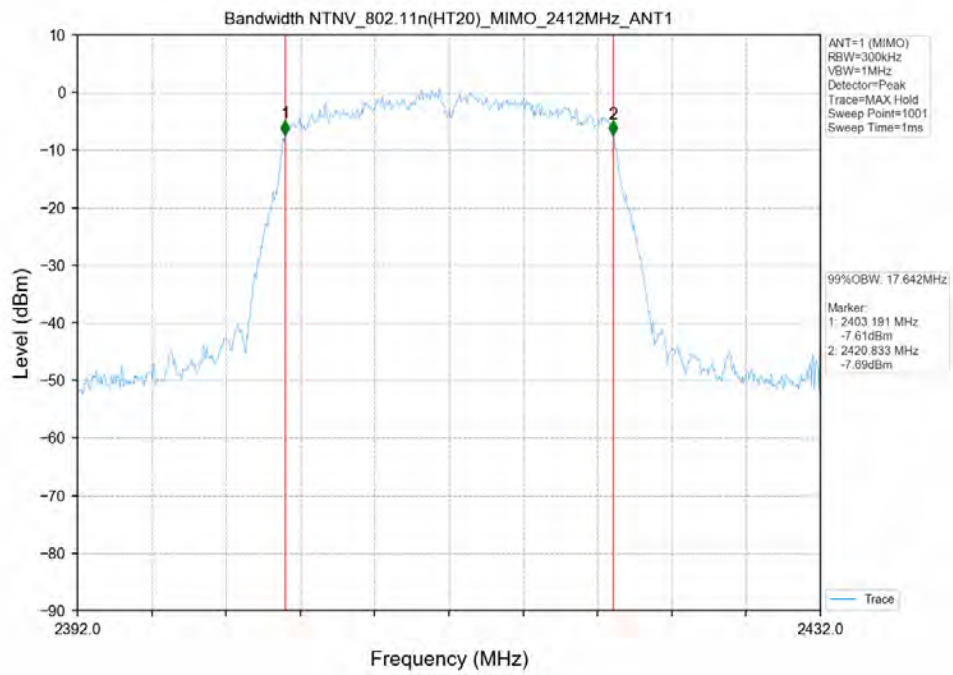
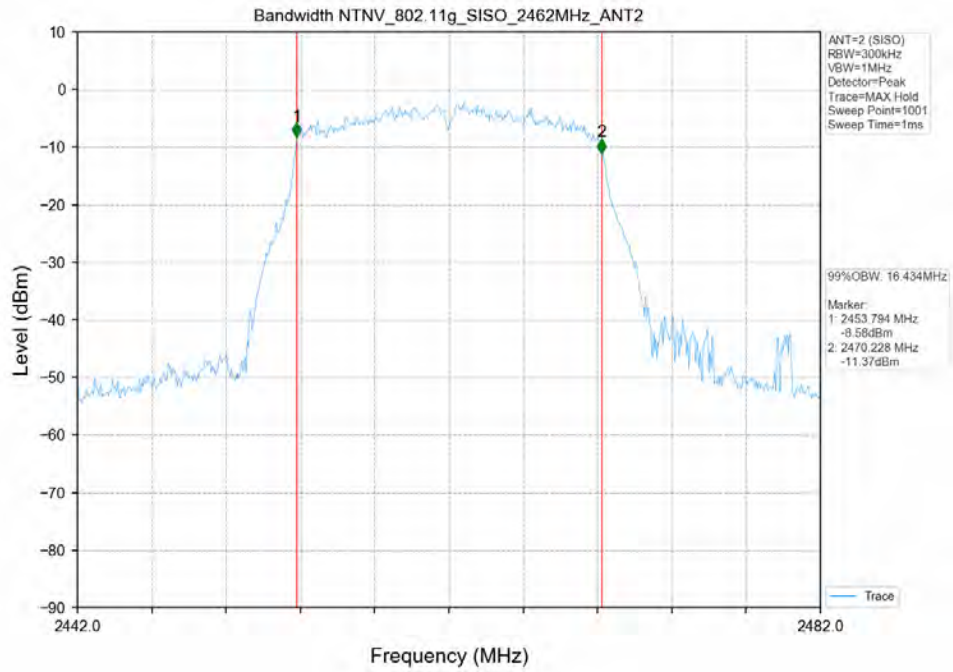


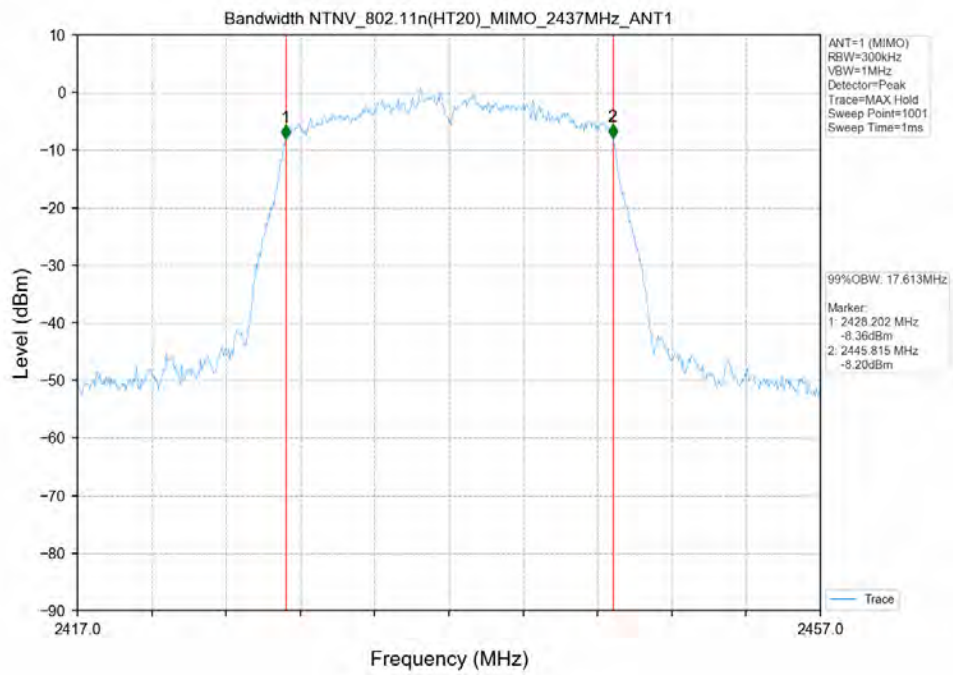
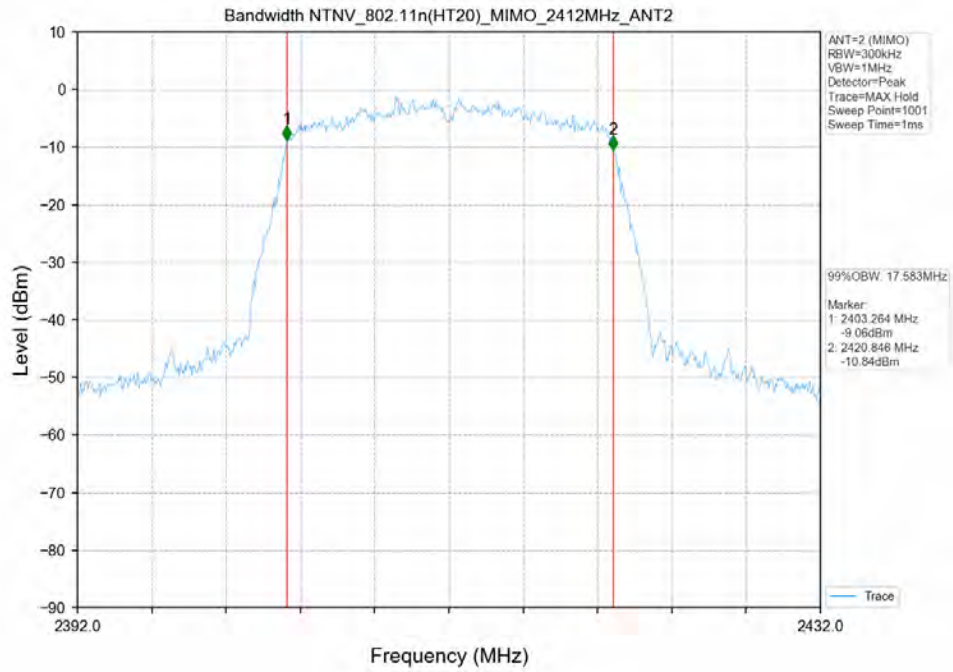


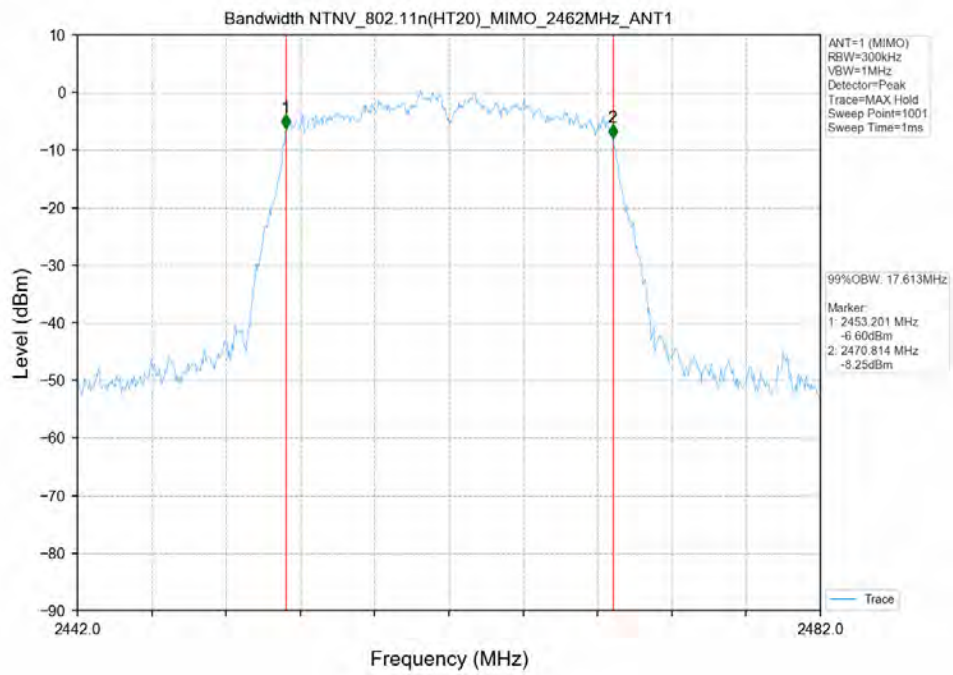
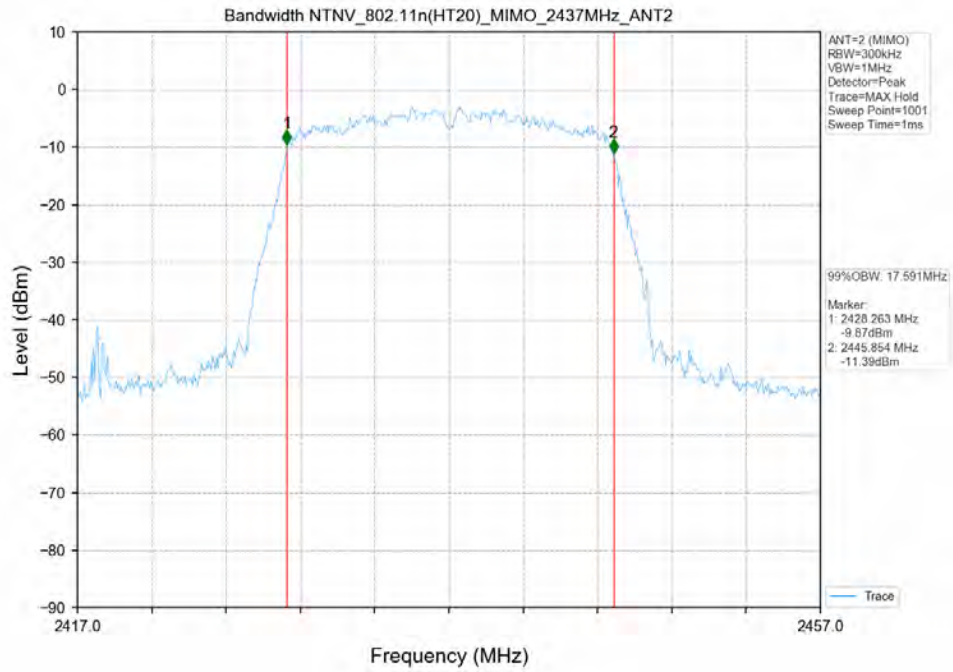


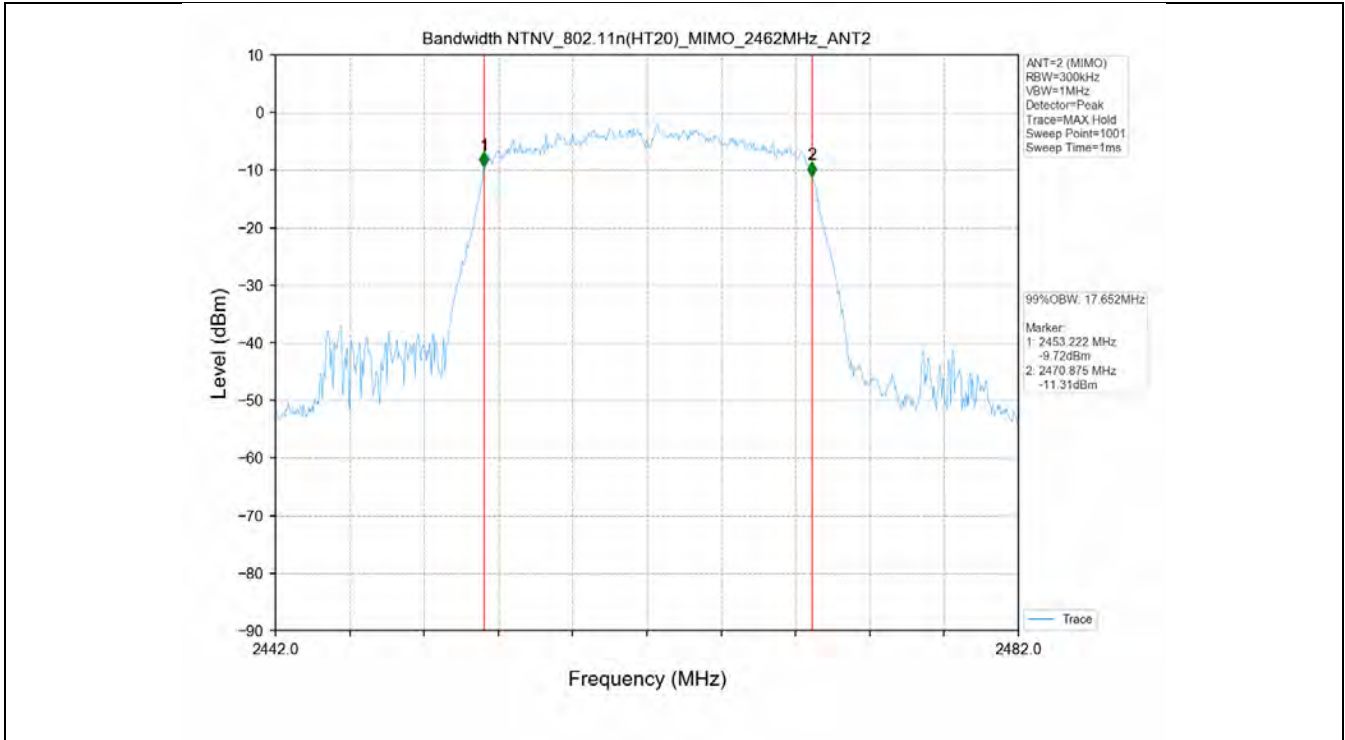










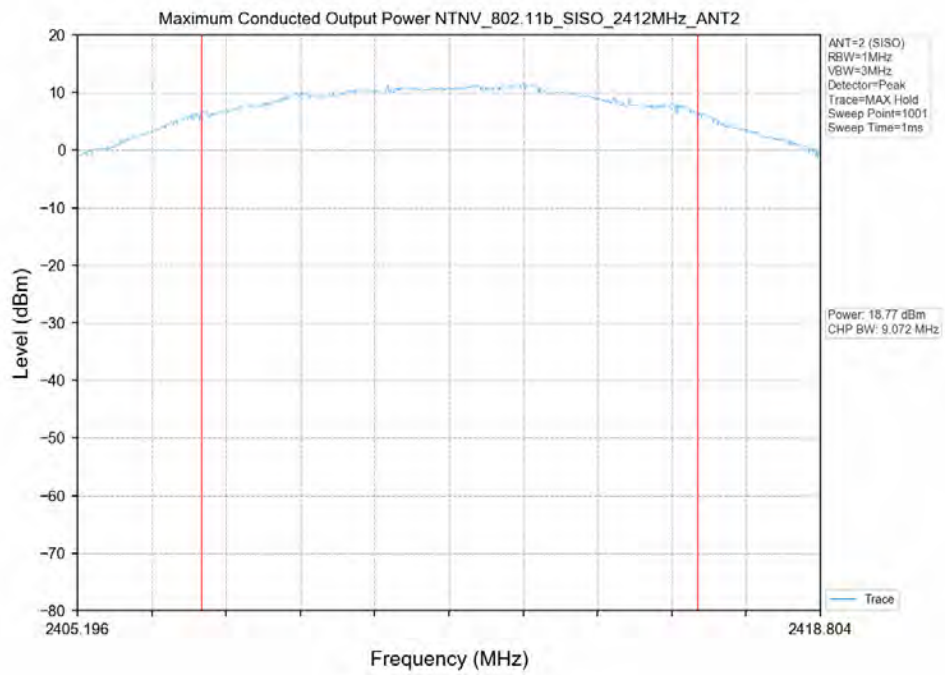
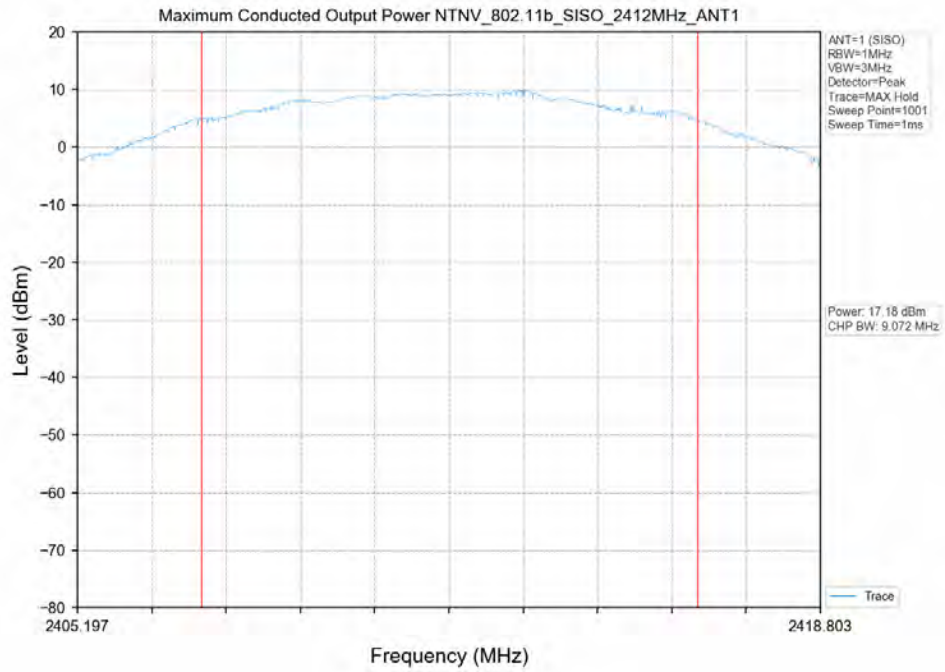


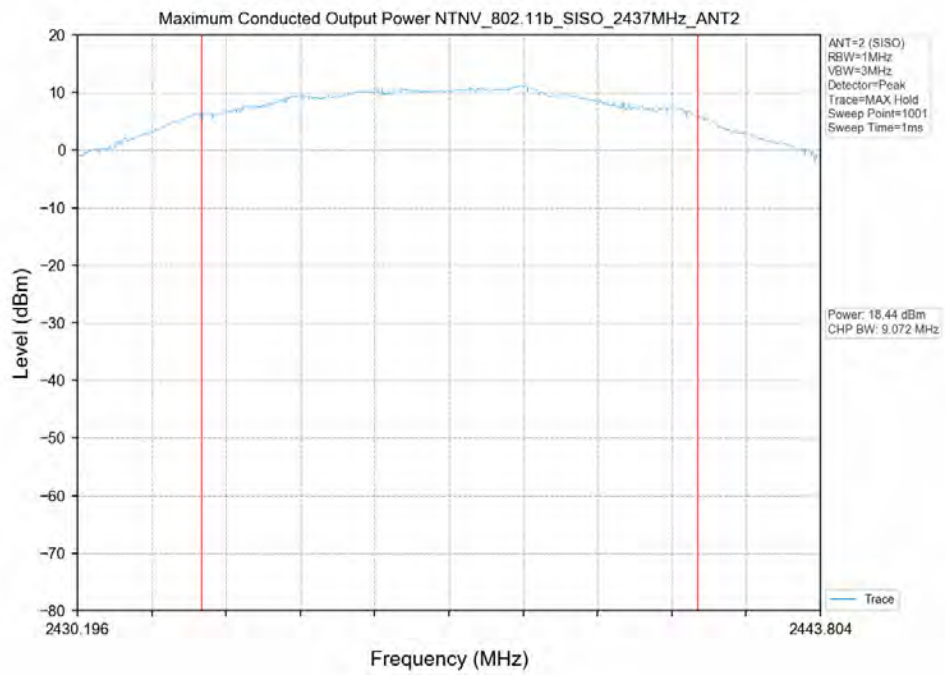
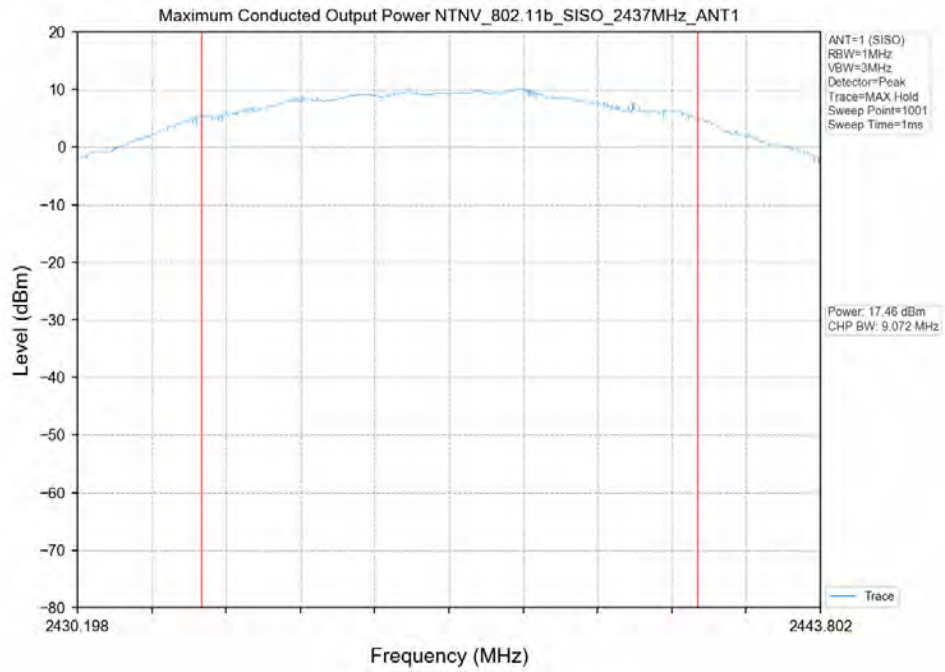
3. Maximum Conducted Output Power

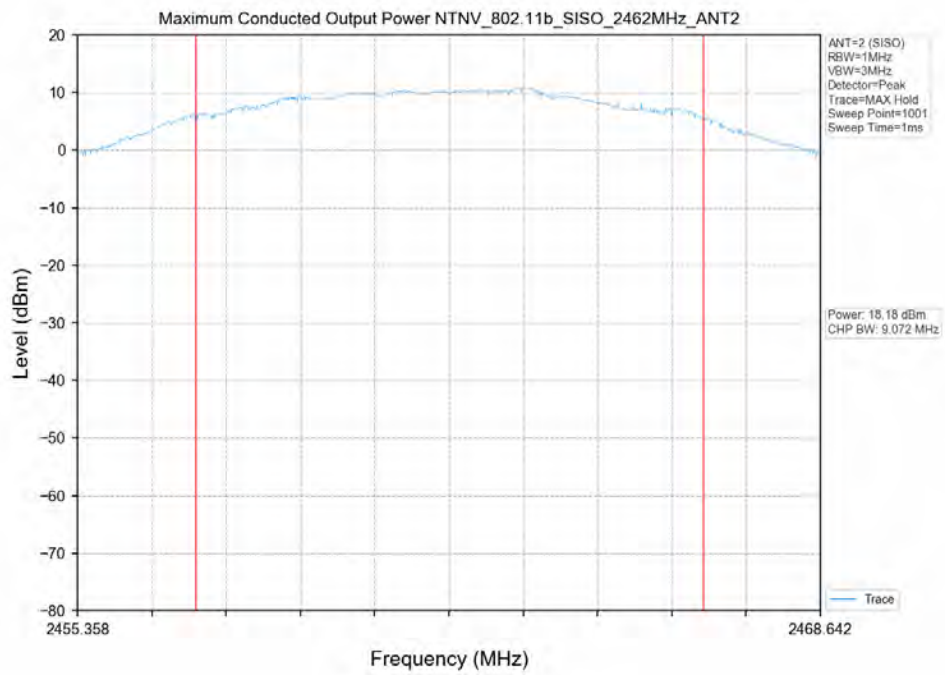
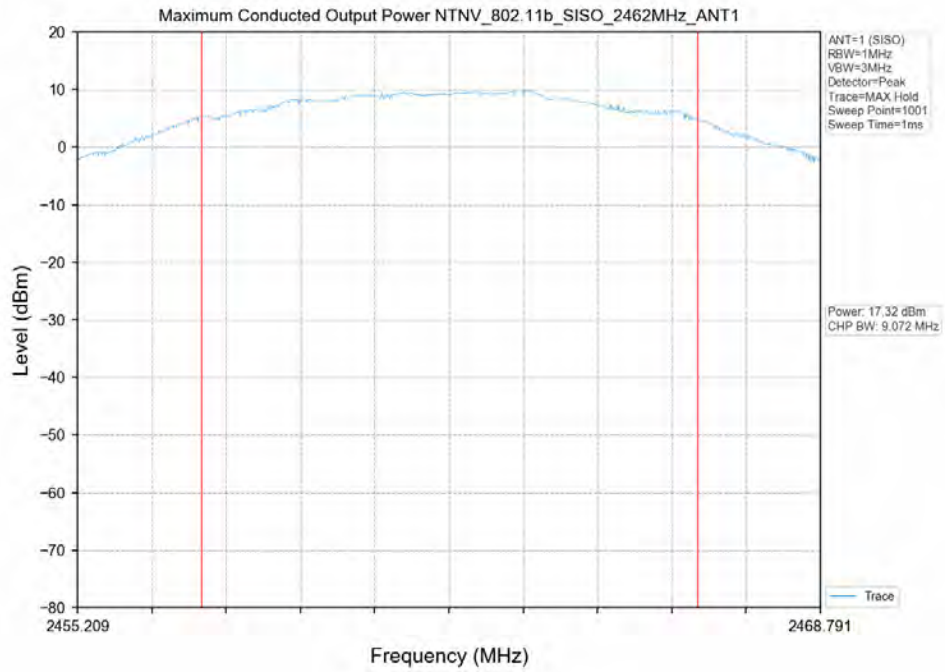
3.1 Test Result

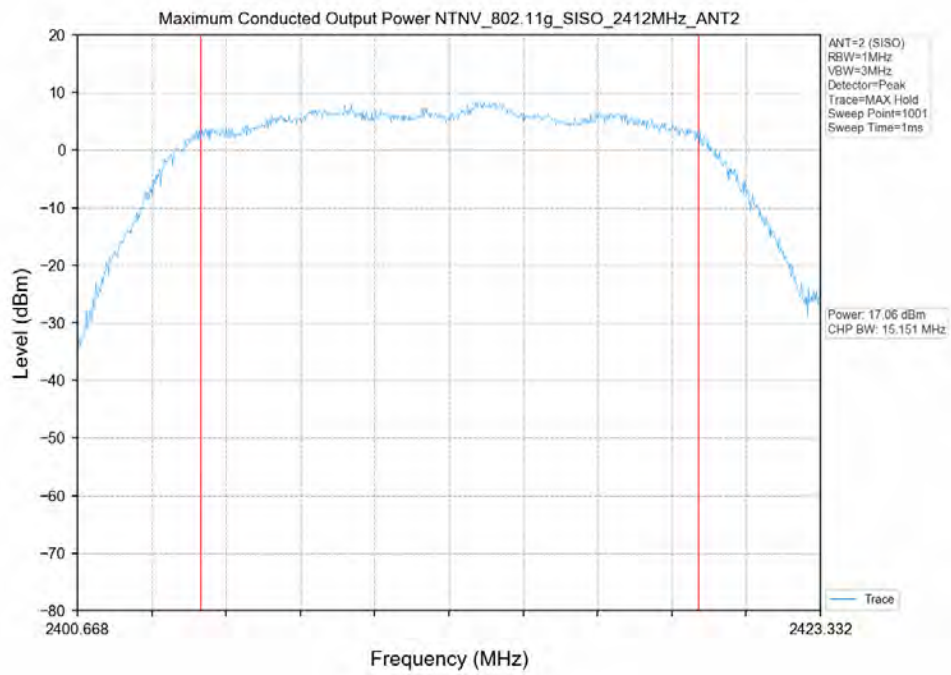
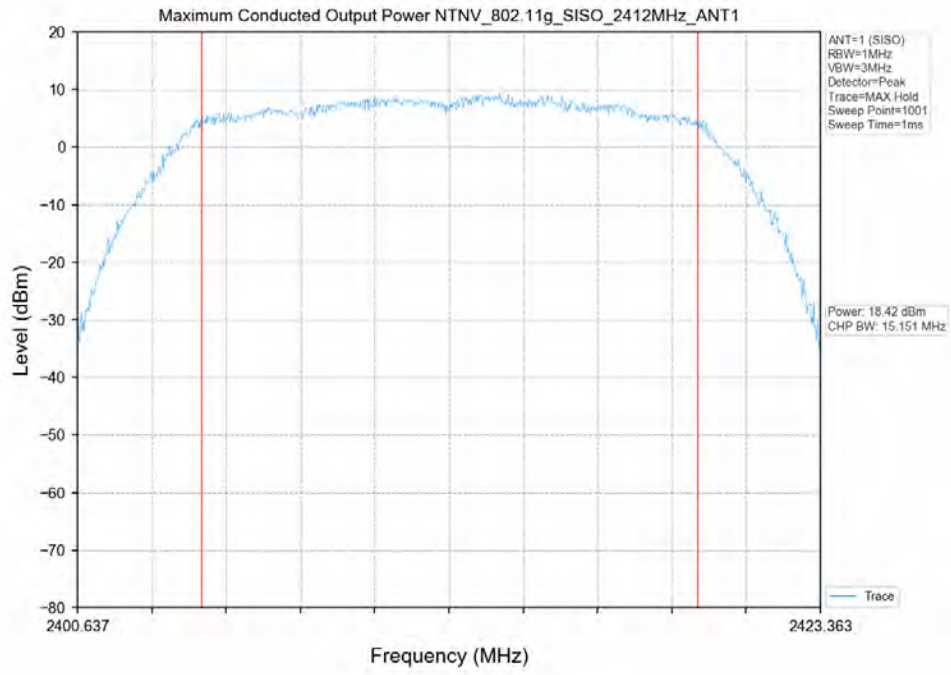
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	17.18	18.77	/	30	PASS
	2437	SISO	17.46	18.44	/	30	PASS
	2462	SISO	17.32	18.18	/	30	PASS
802.11g	2412	SISO	18.42	17.06	/	30	PASS
	2437	SISO	18.01	15.62	/	30	PASS
	2462	SISO	18.84	16.19	/	30	PASS
802.11n(HT20)	2412	MIMO	15.14	13.22	17.30	29.89	PASS
	2437	MIMO	14.44	12.03	16.41	29.89	PASS
	2462	MIMO	14.46	12.48	16.59	29.89	PASS

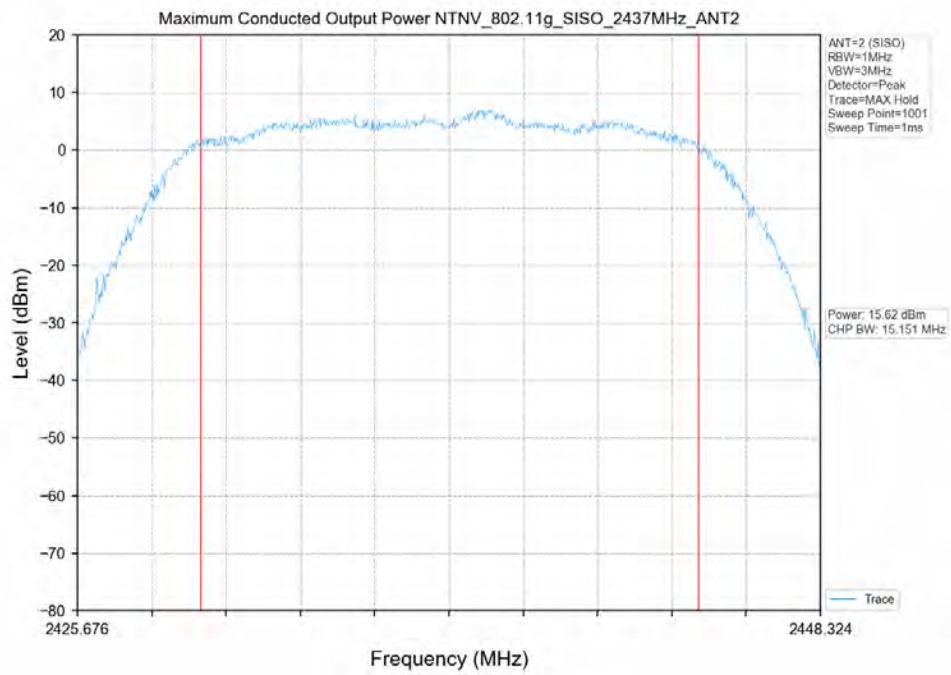
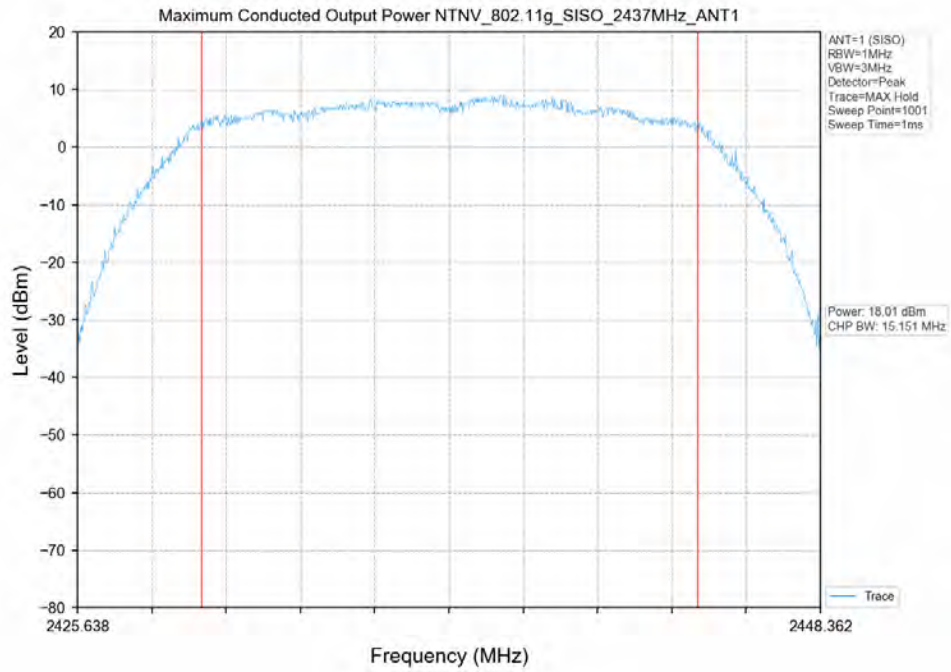
3.2 Test Graph

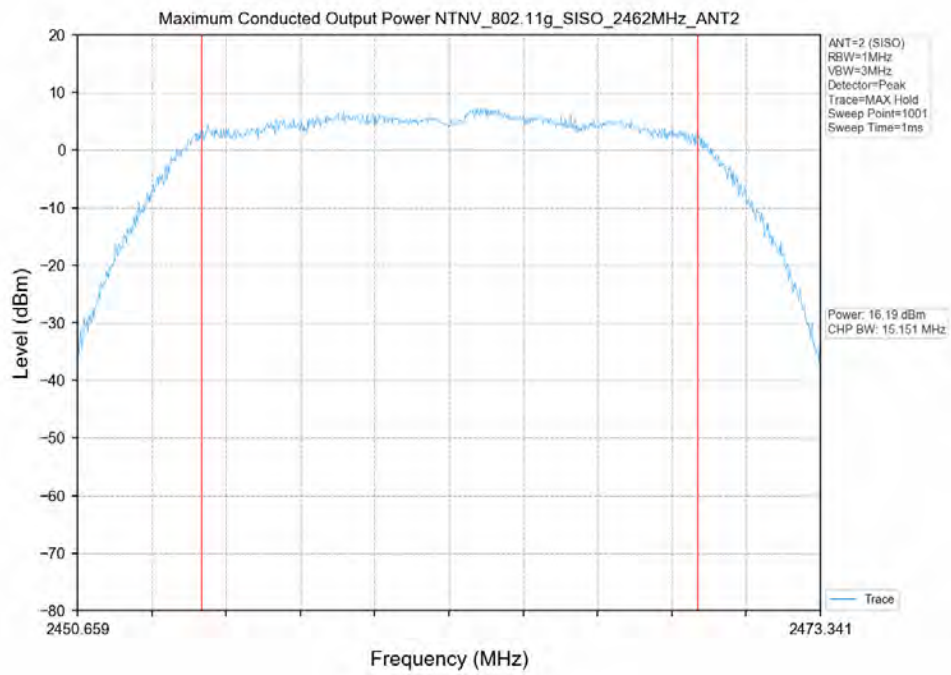
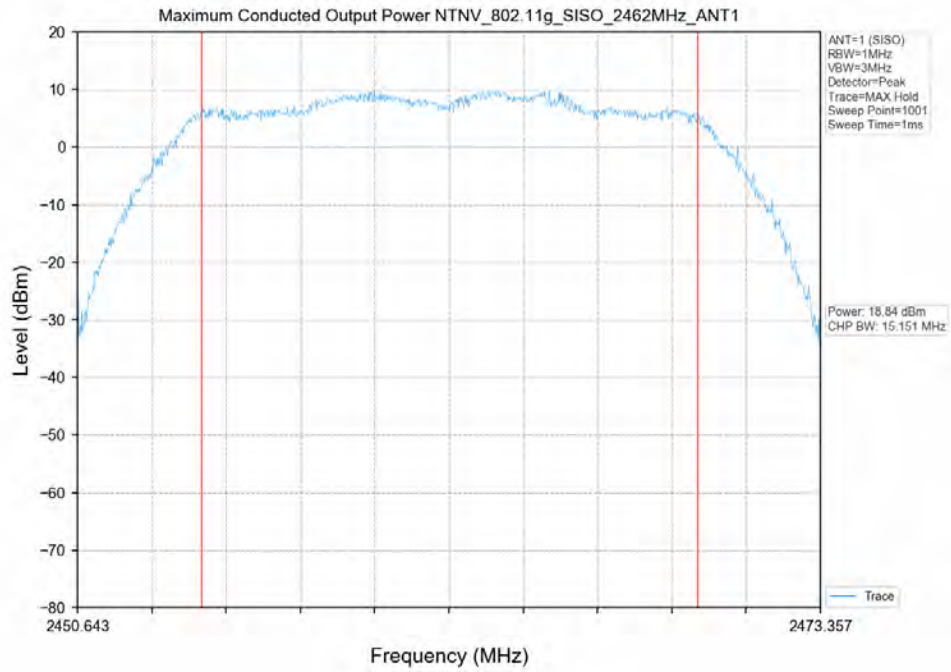


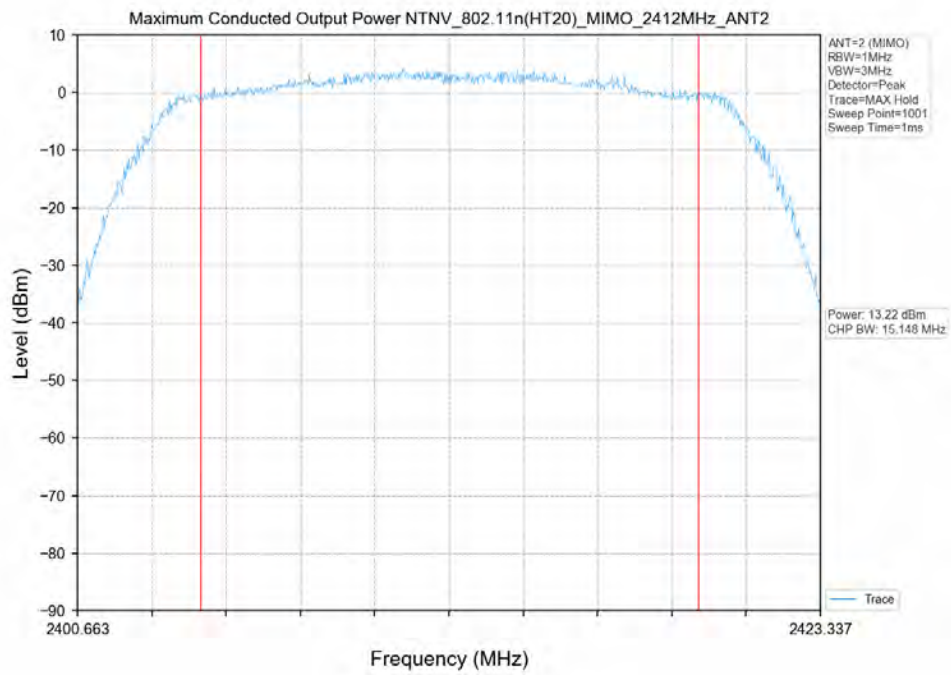
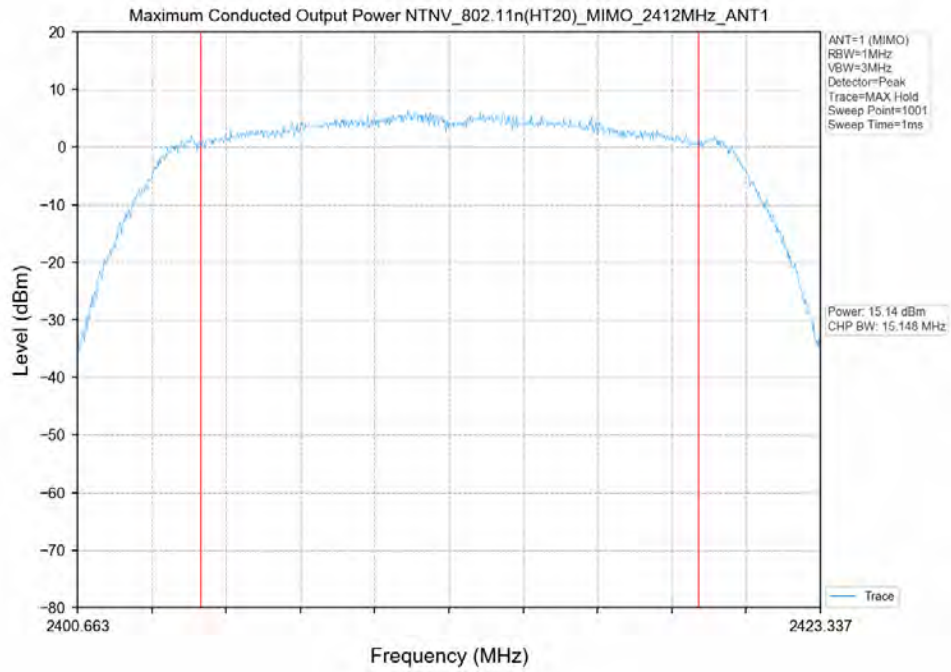


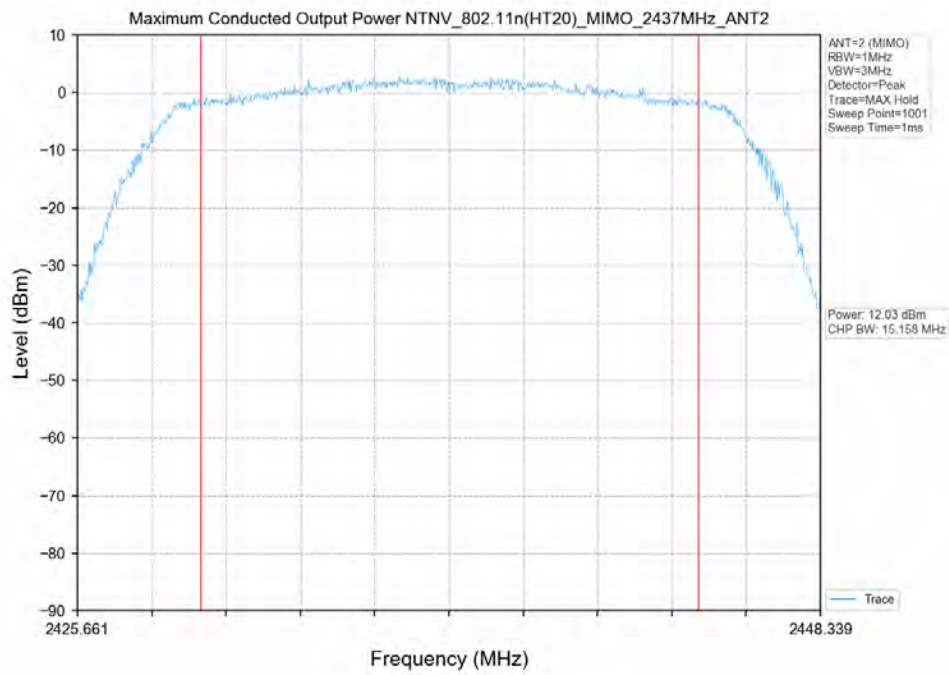
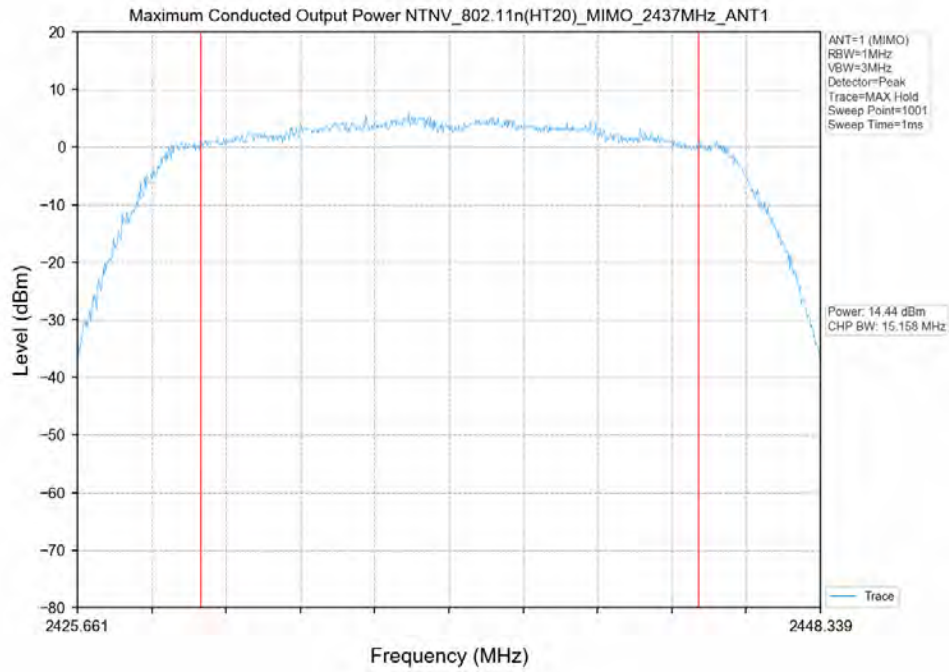


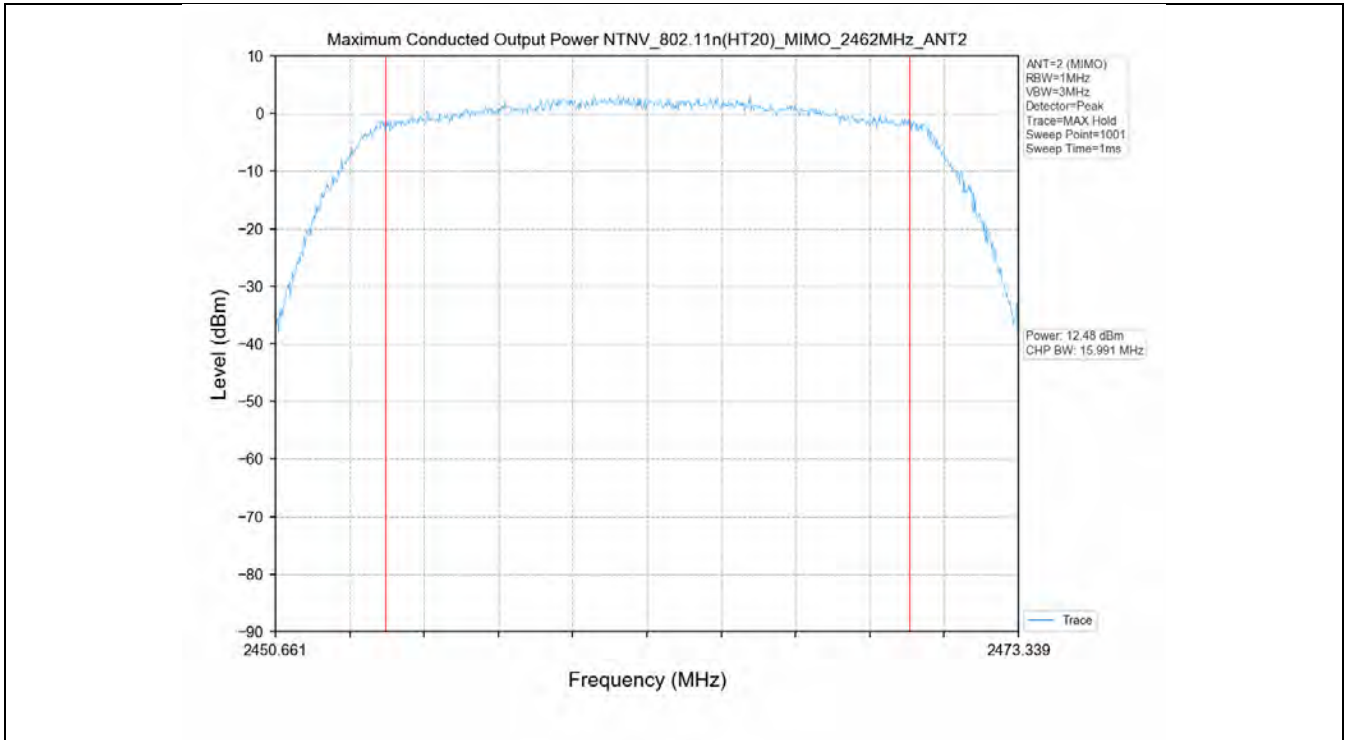
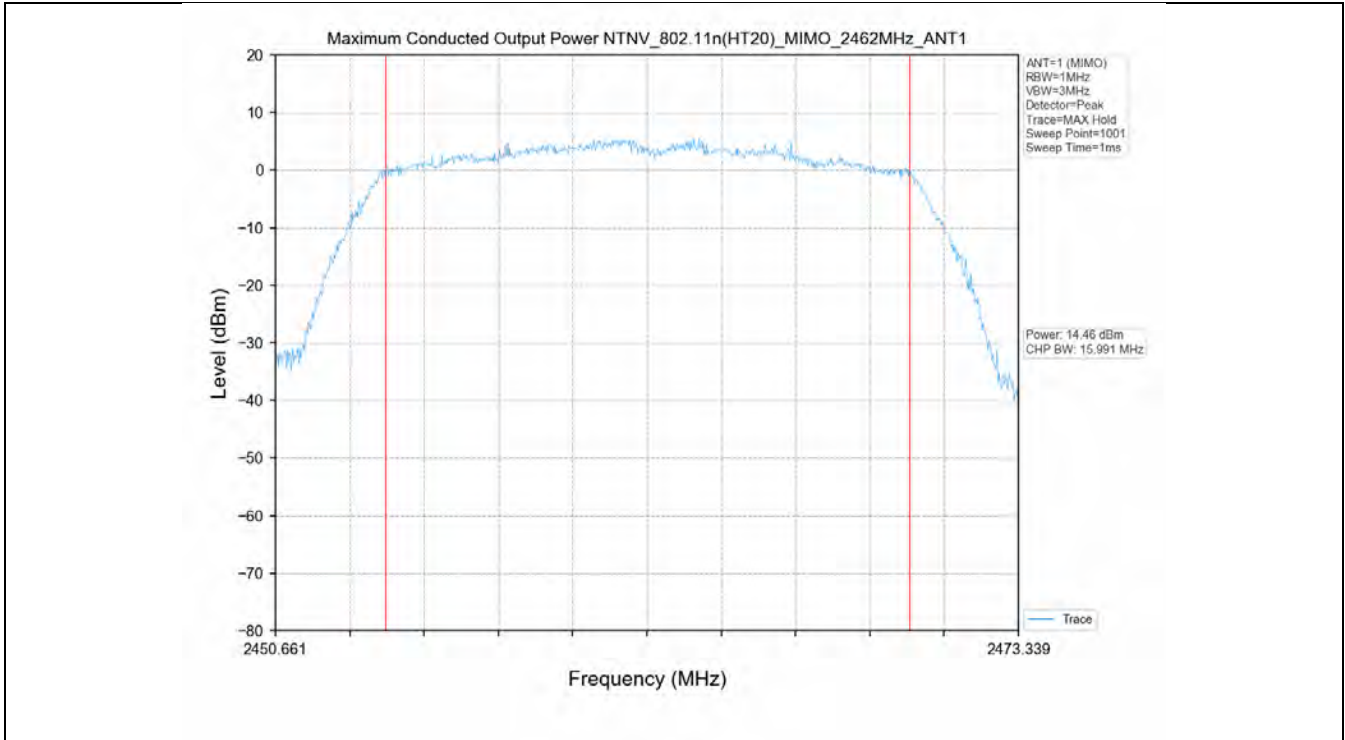










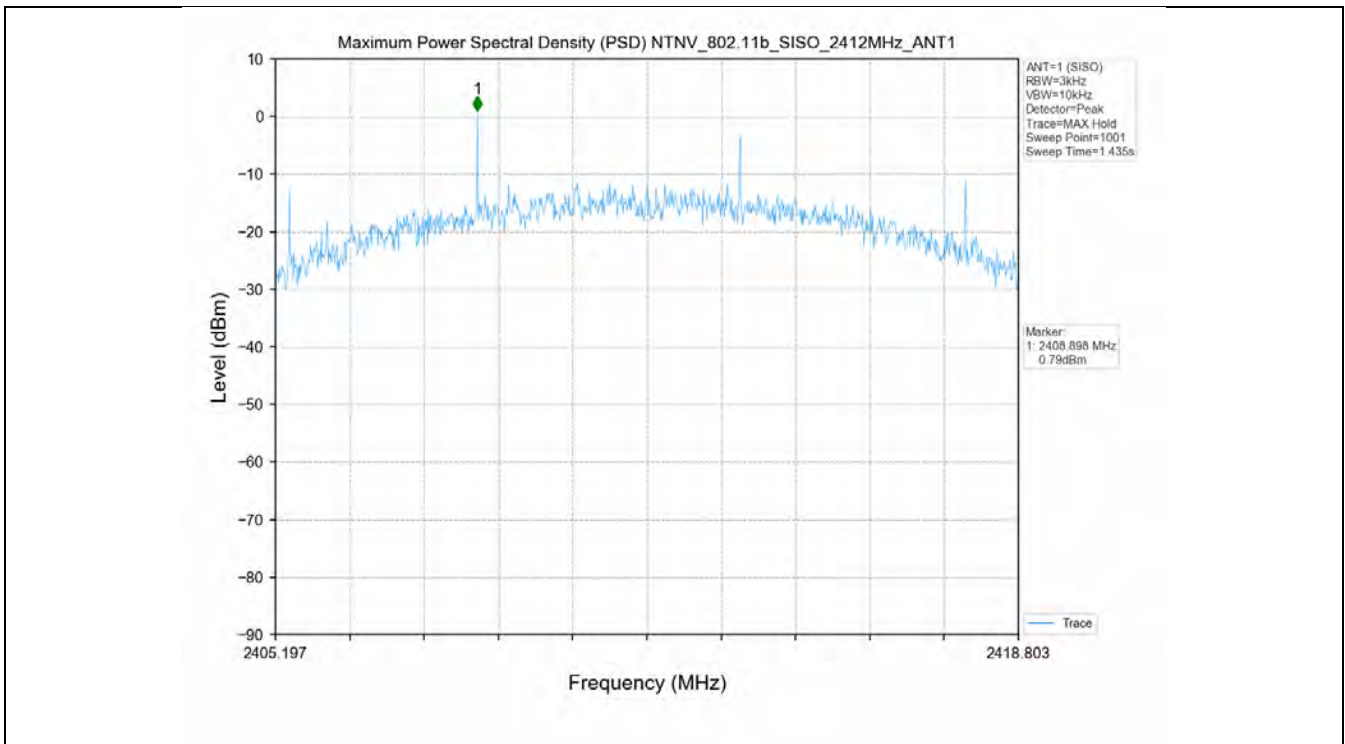


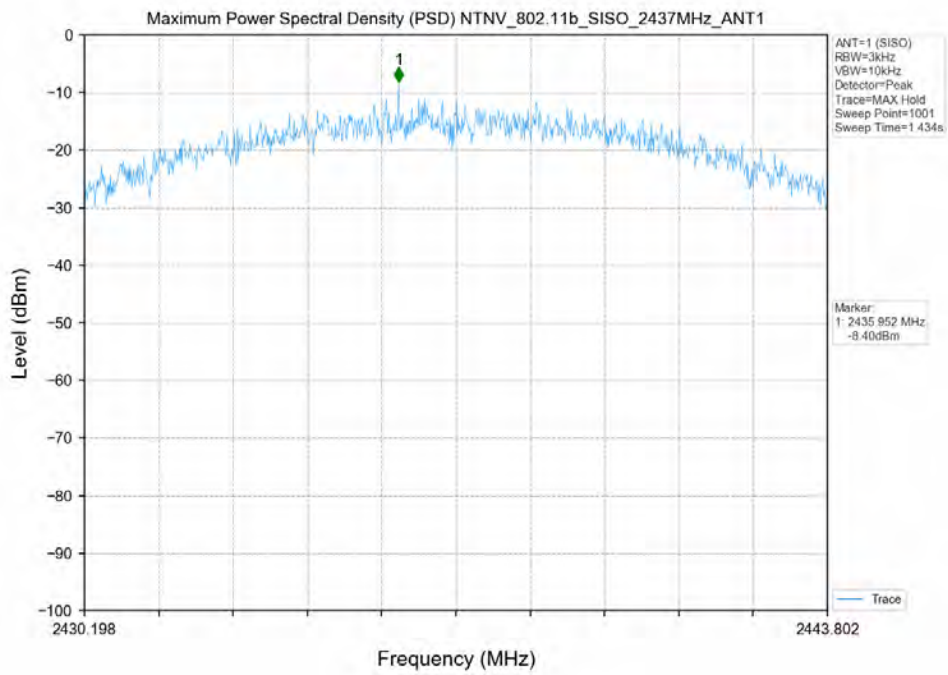
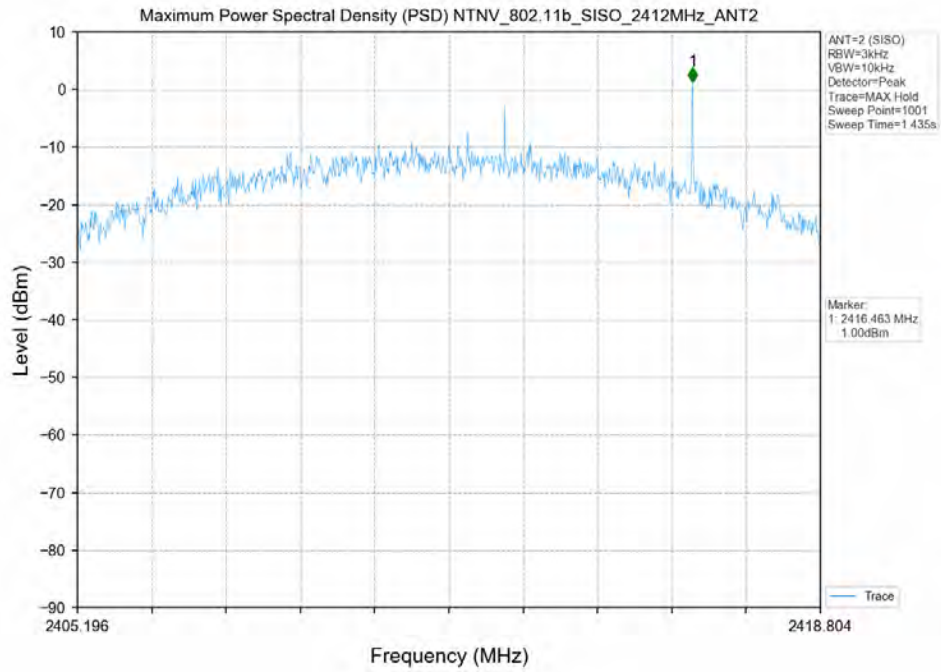
4. Maximum Power Spectral Density (PSD)

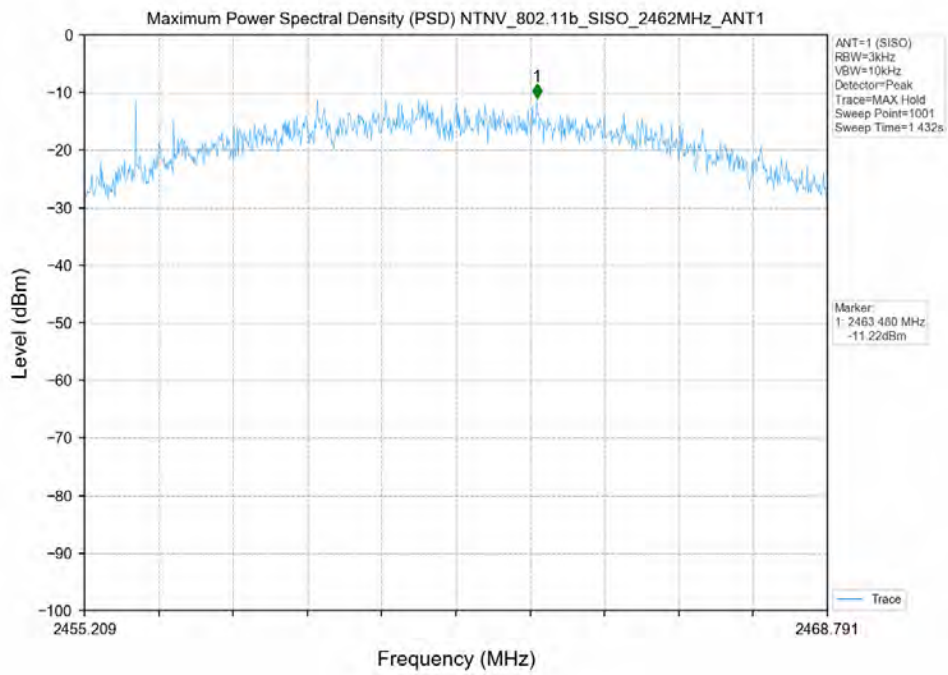
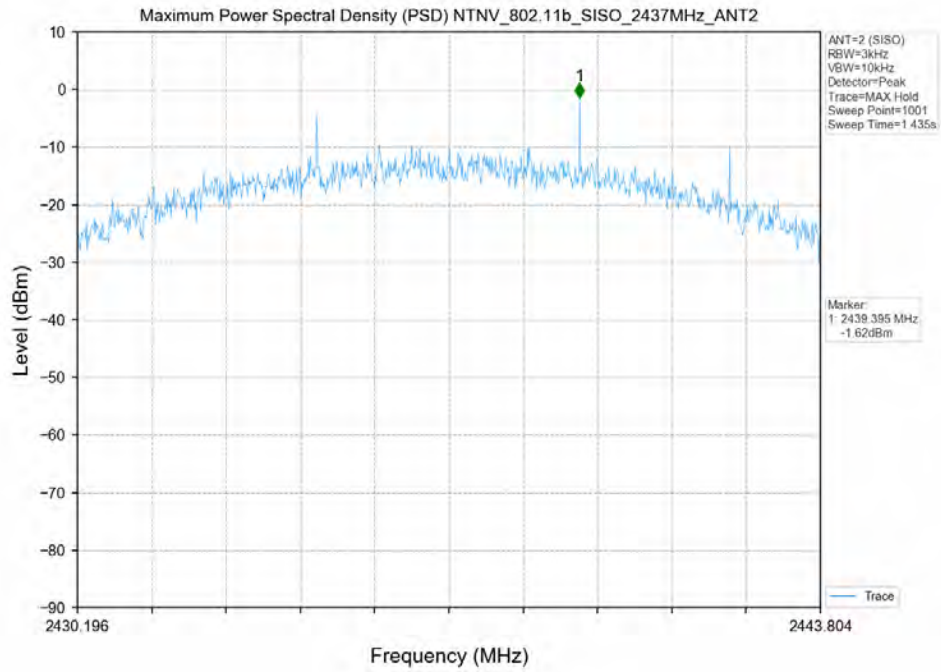
4.1 Test Result

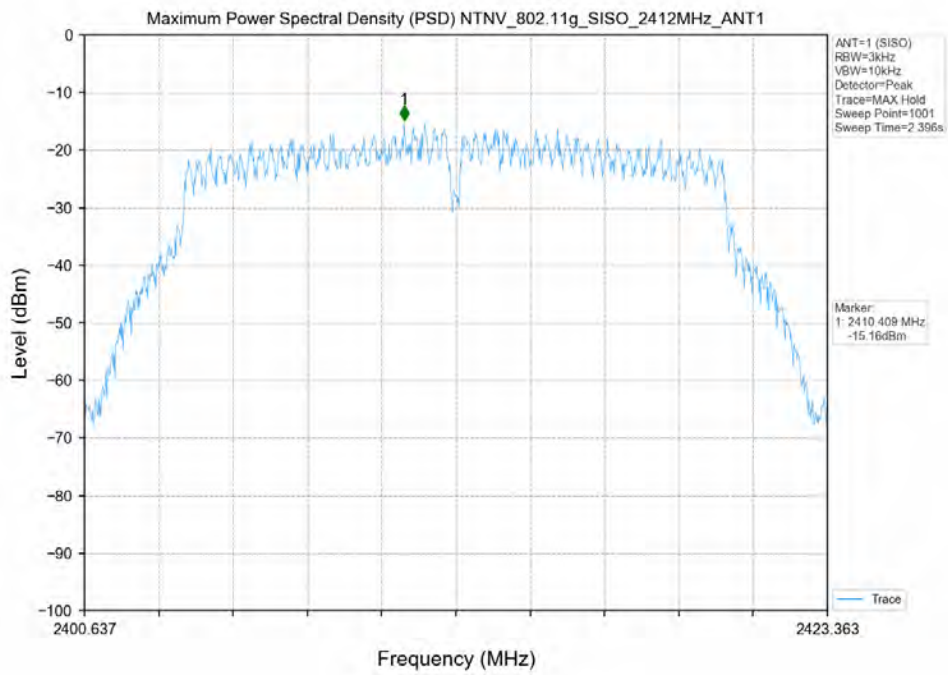
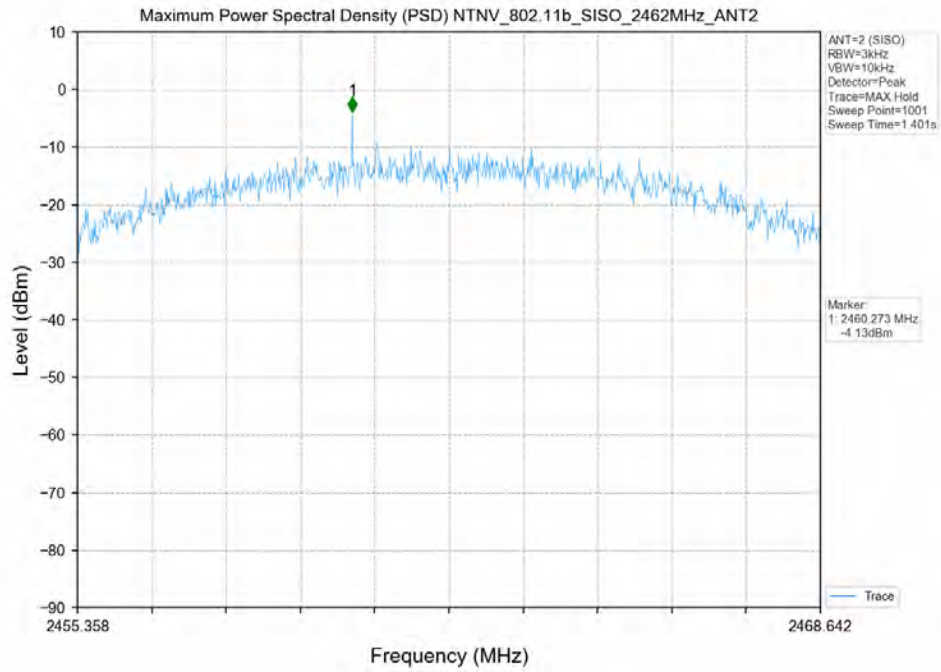
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	0.79	1.00	/	≤8	PASS
	2437	SISO	-8.40	-1.62	/	≤8	PASS
	2462	SISO	-11.22	-4.13	/	≤8	PASS
802.11g	2412	SISO	-15.16	-16.17	/	≤8	PASS
	2437	SISO	-14.80	-17.68	/	≤8	PASS
	2462	SISO	-18.08	-21.01	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-17.65	-18.41	-15.27	≤7.89	PASS
	2437	MIMO	-17.65	-19.64	-15.60	≤7.89	PASS
	2462	MIMO	-18.36	-20.54	-17.45	≤7.89	PASS

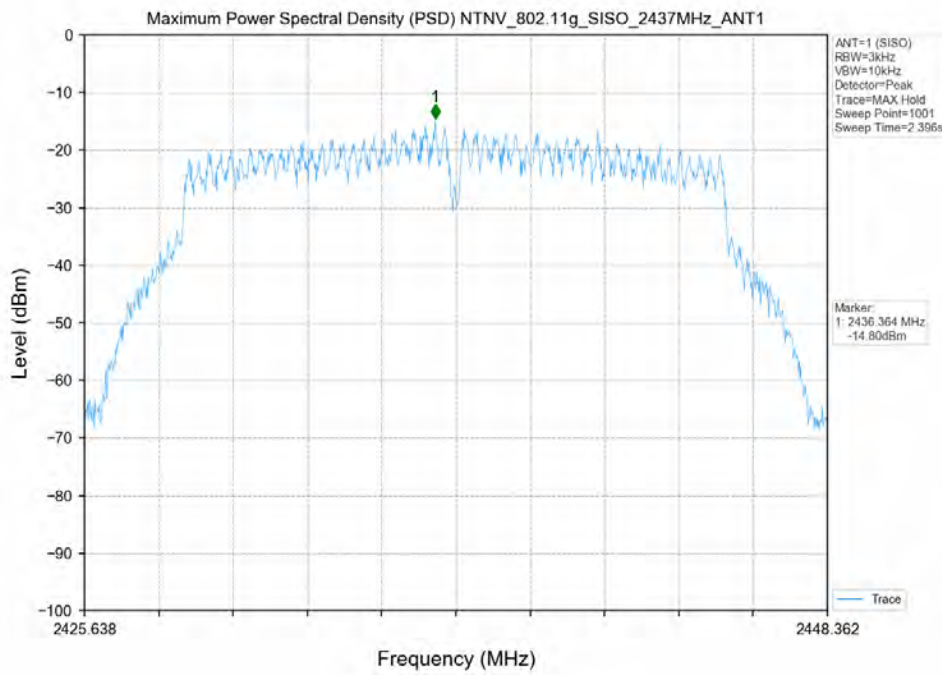
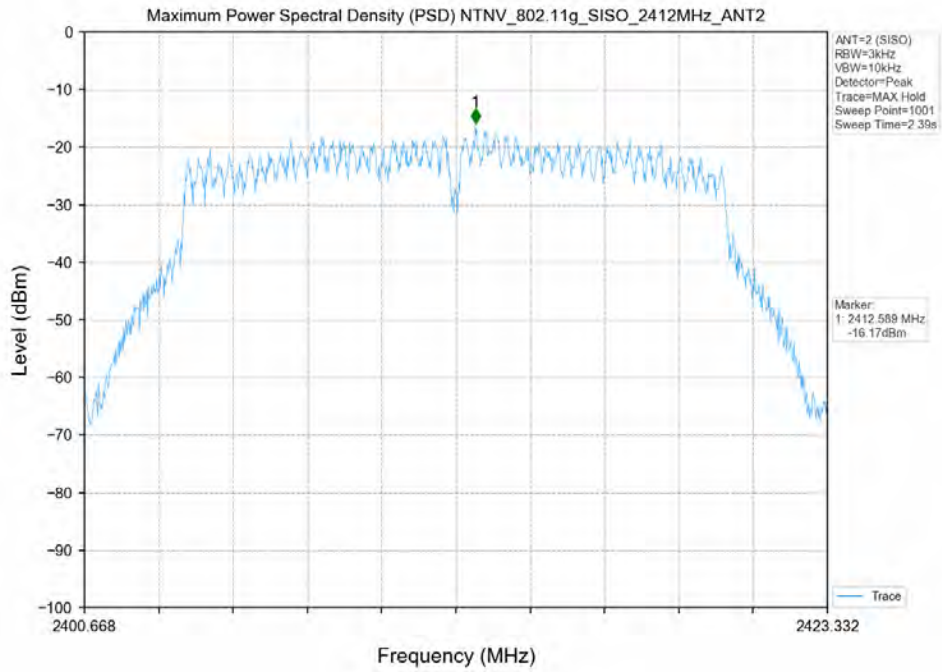
4.2 Test Graph

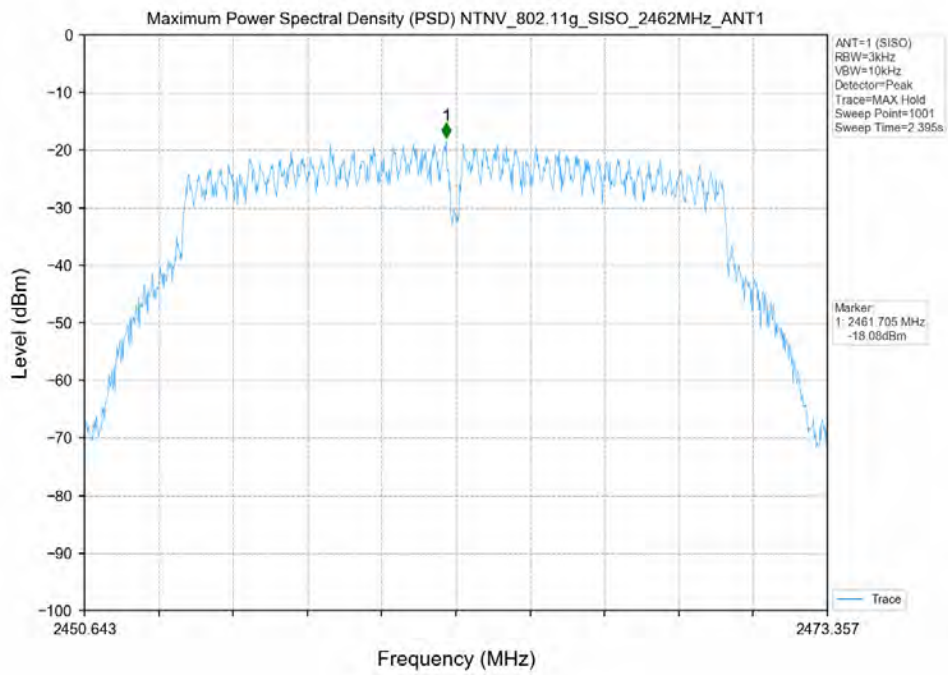
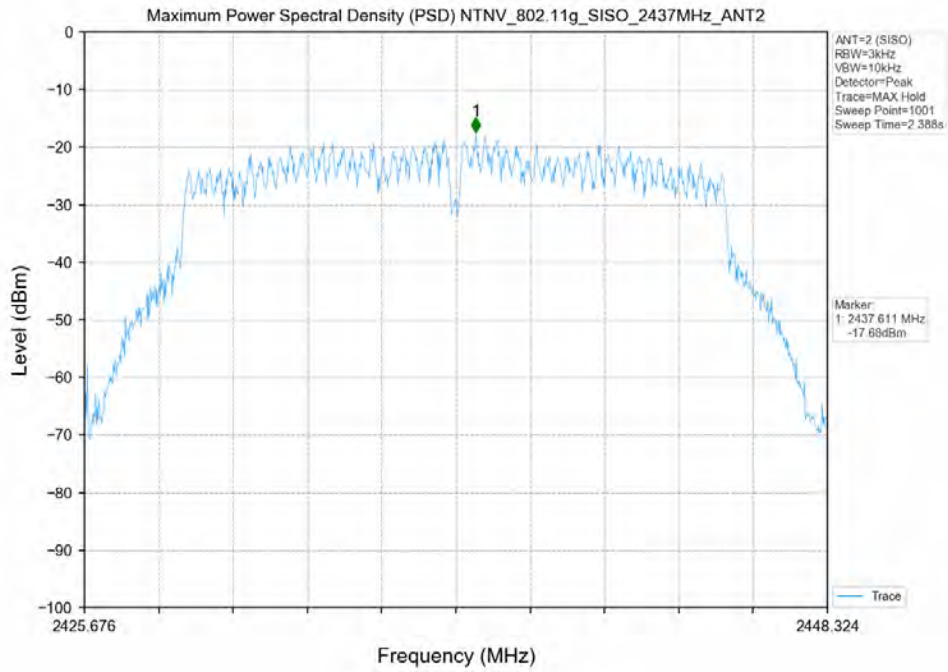


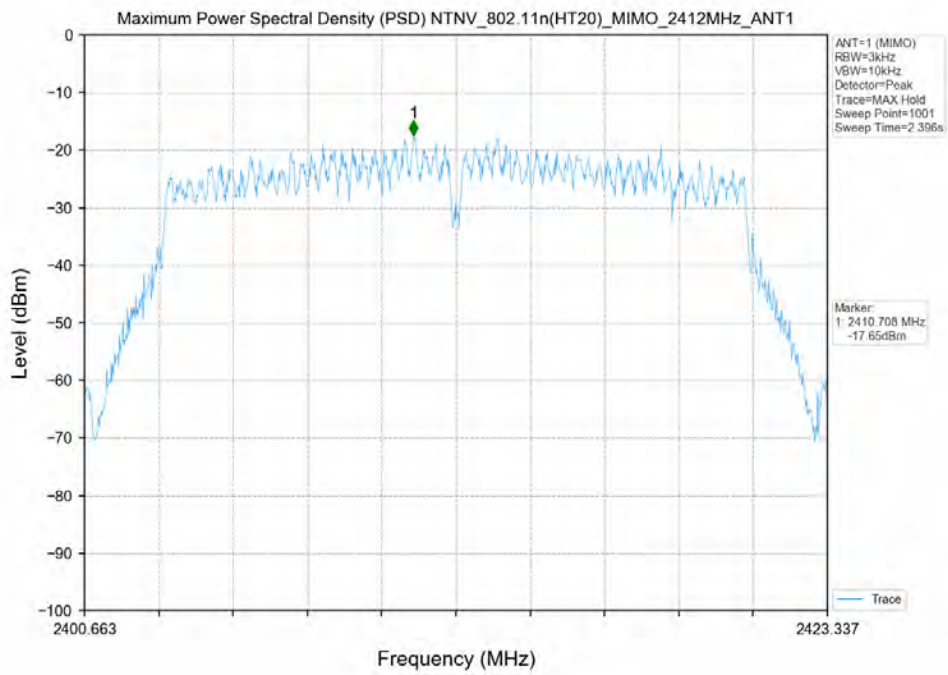
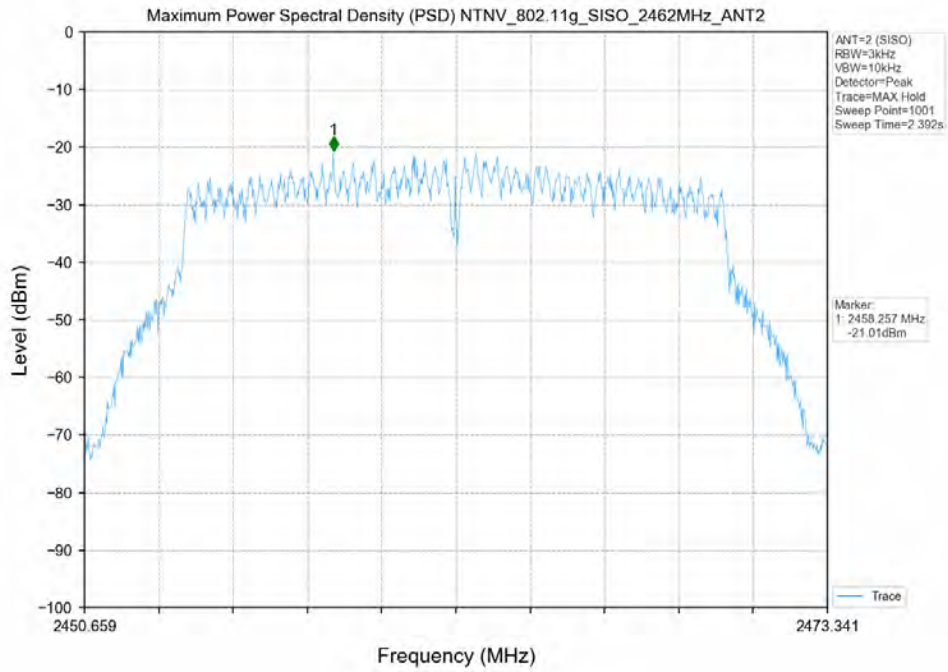


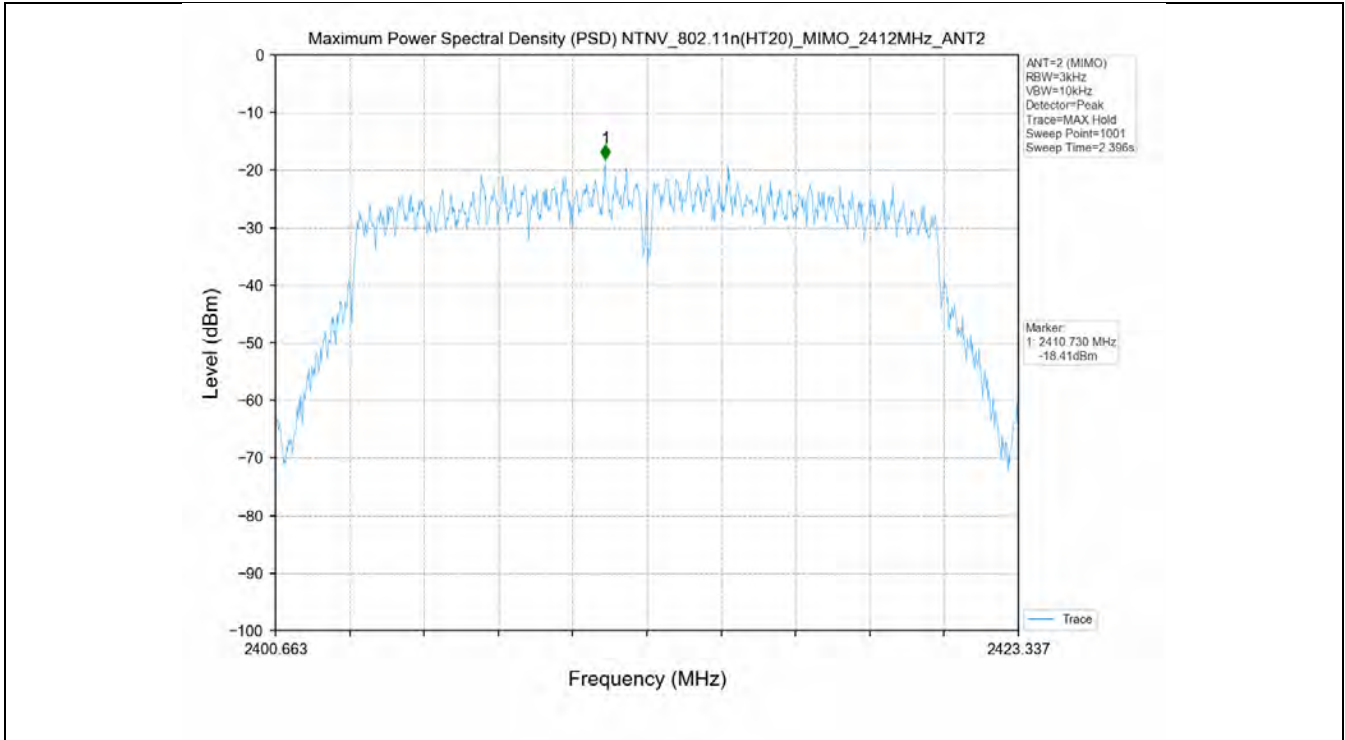


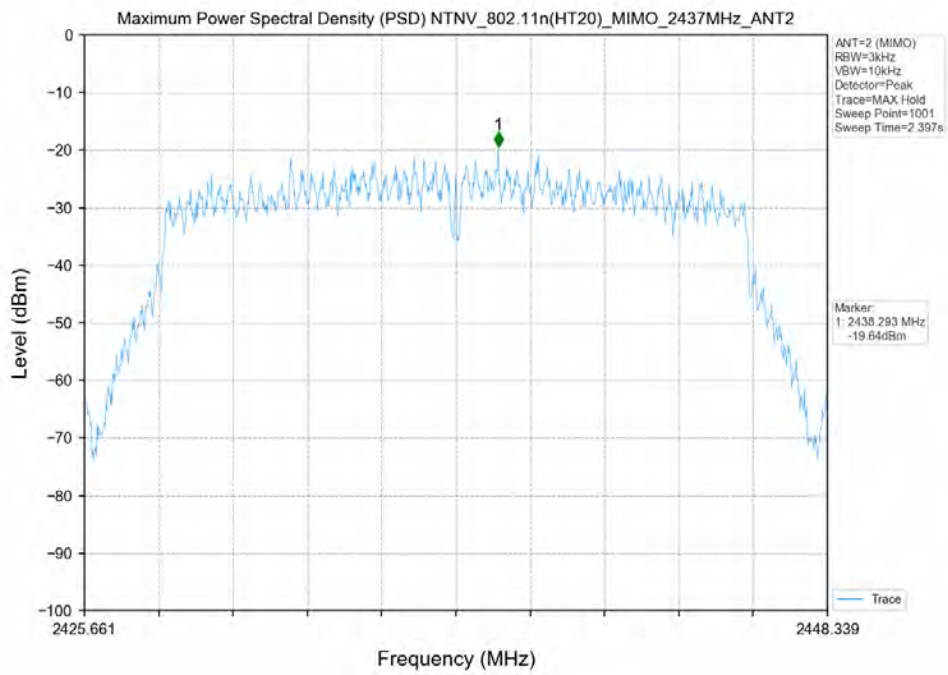
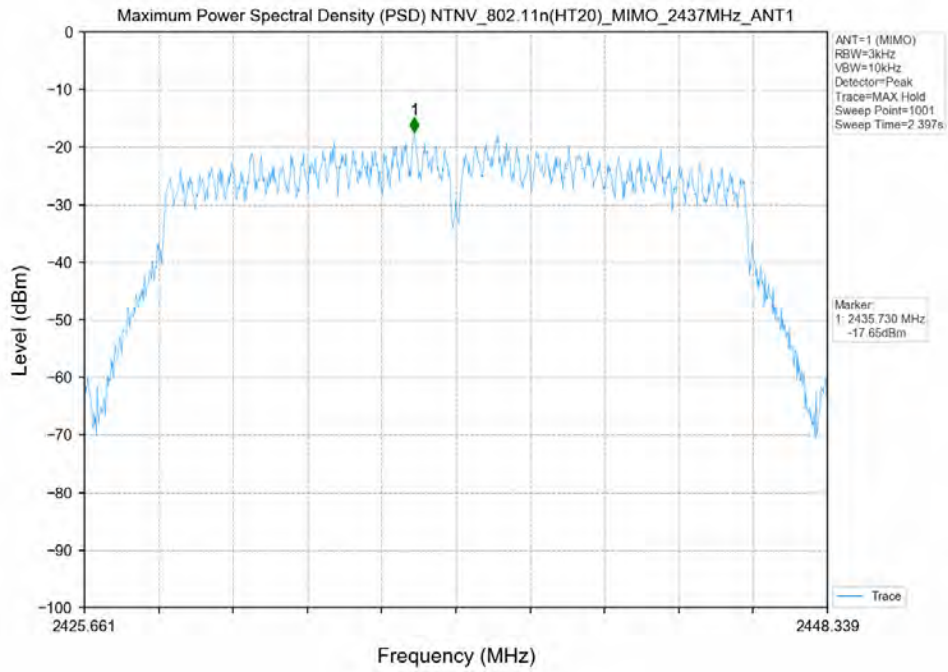


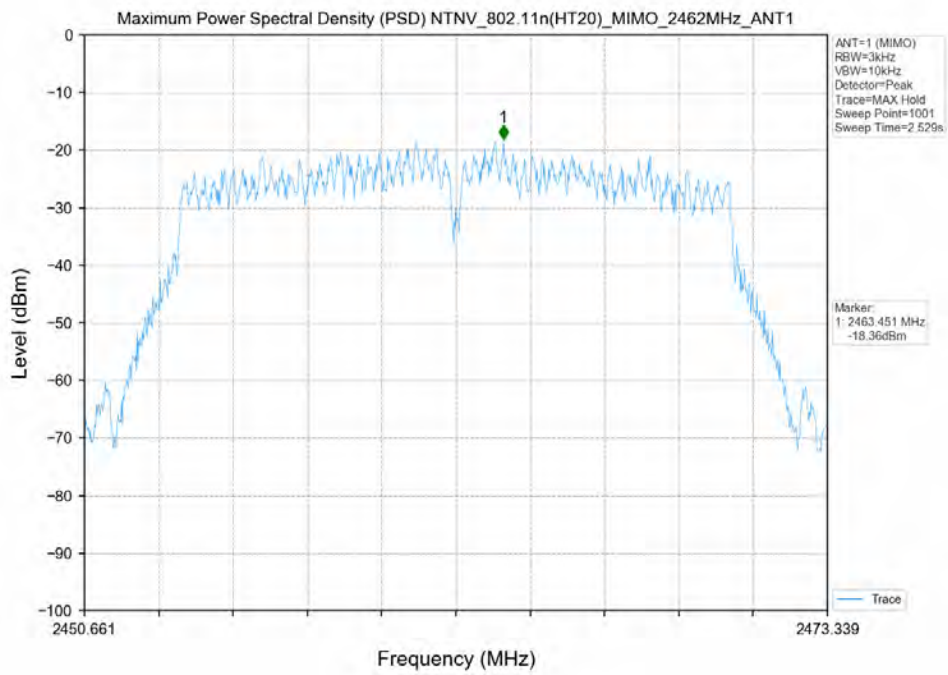
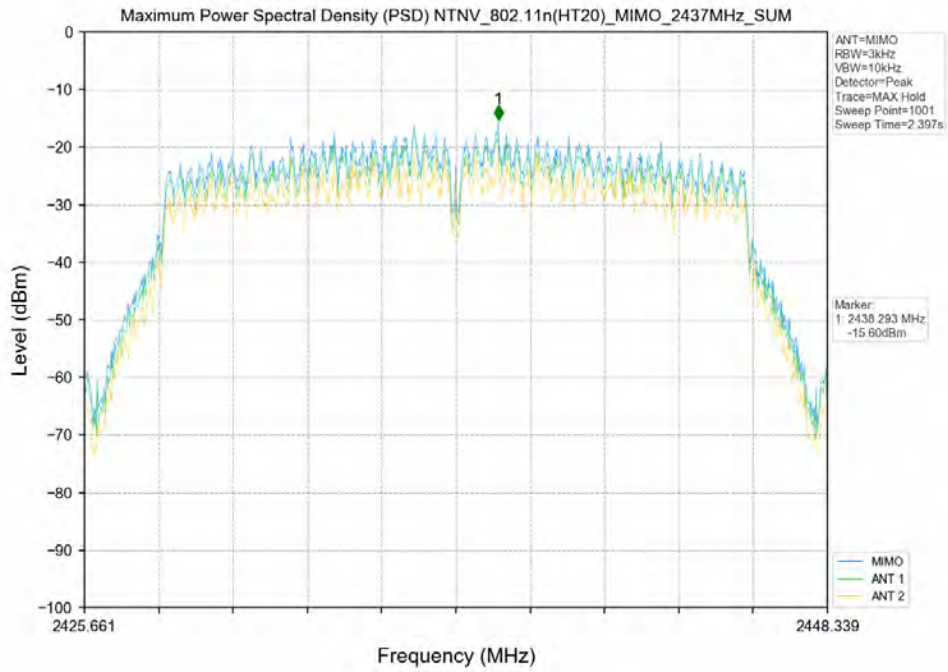


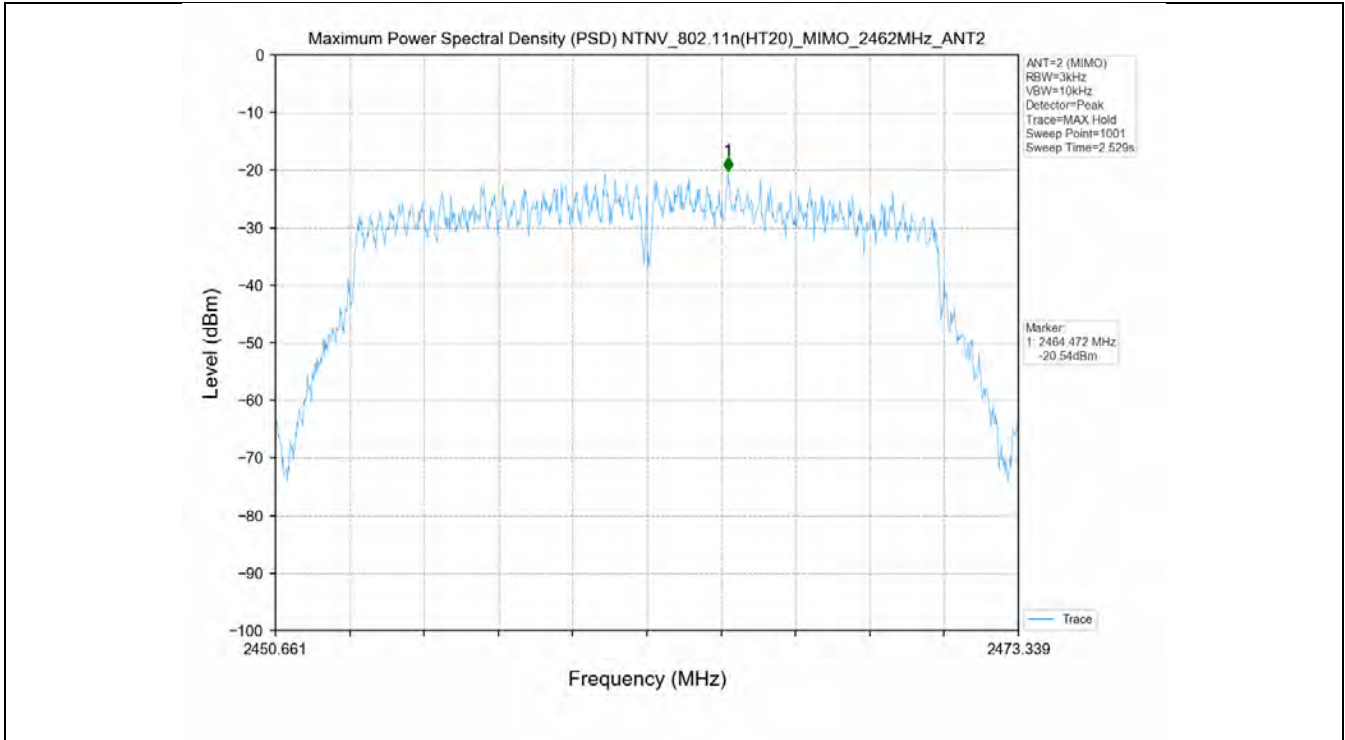










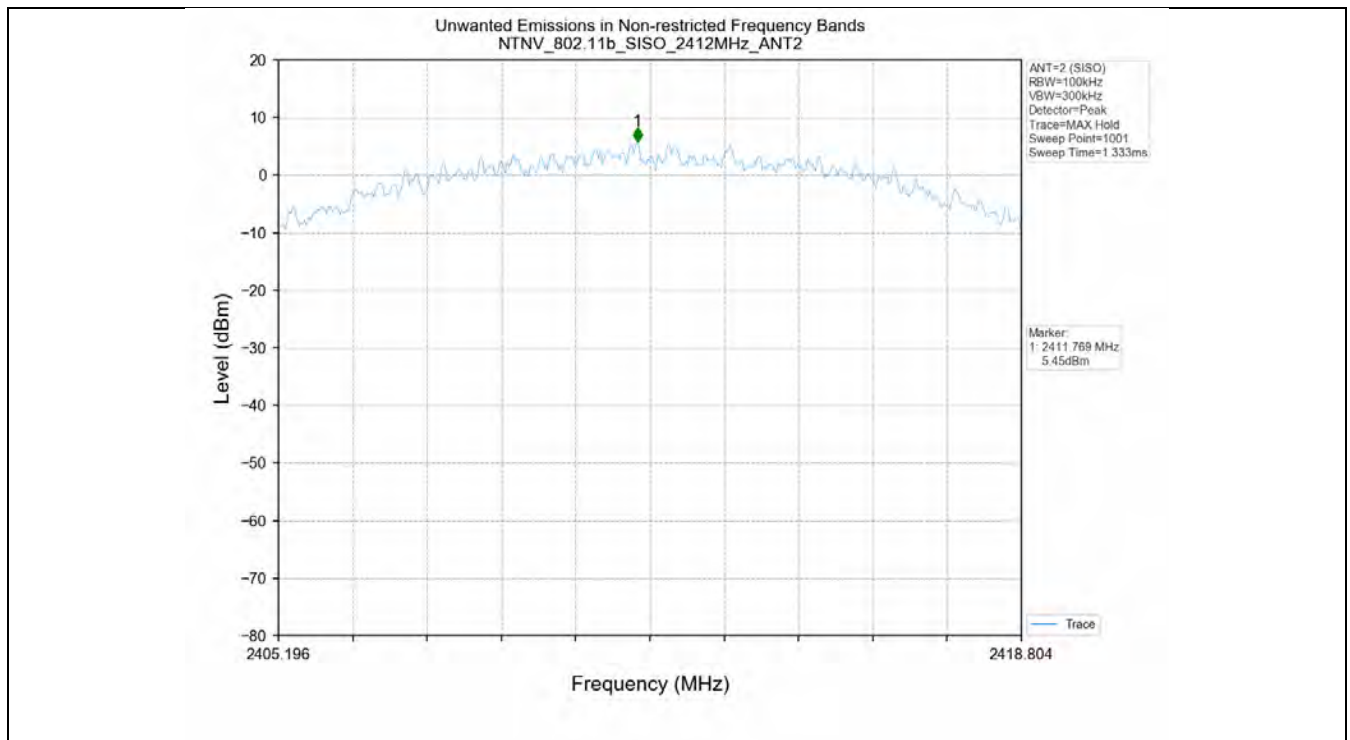


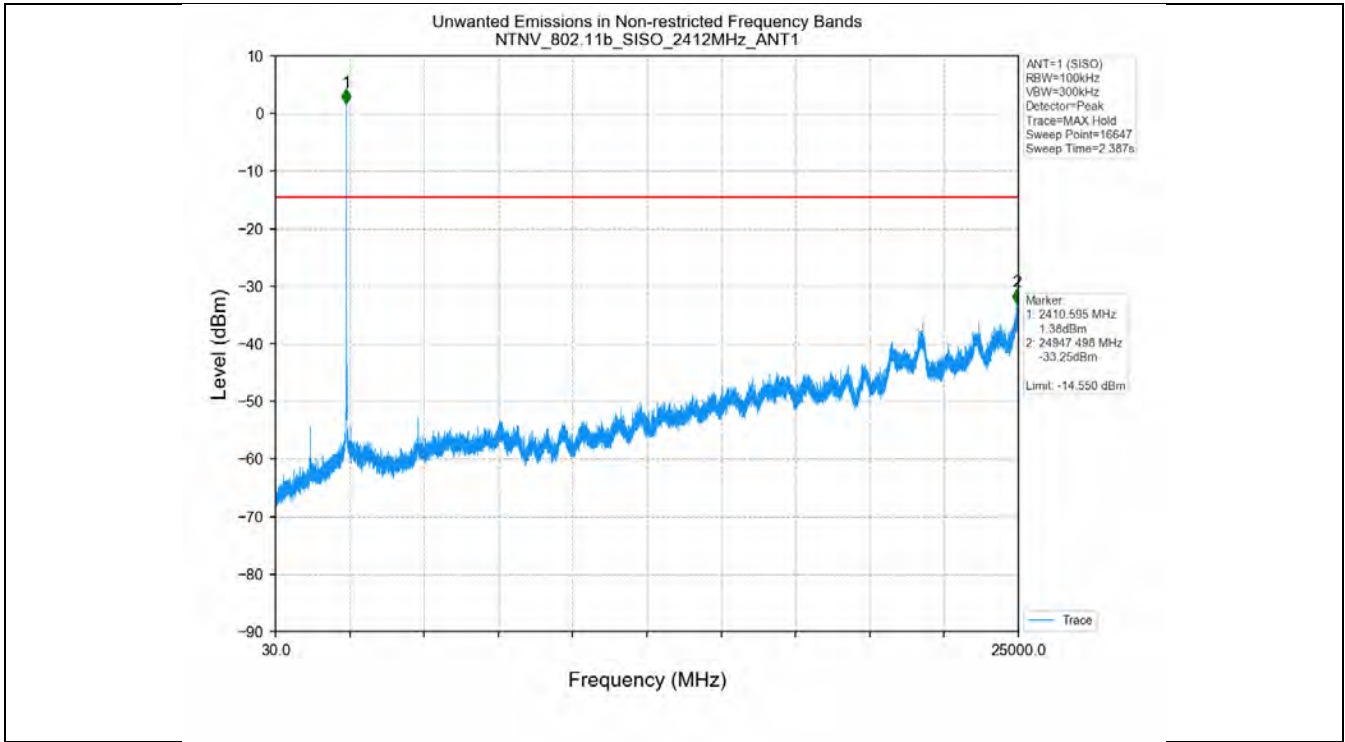
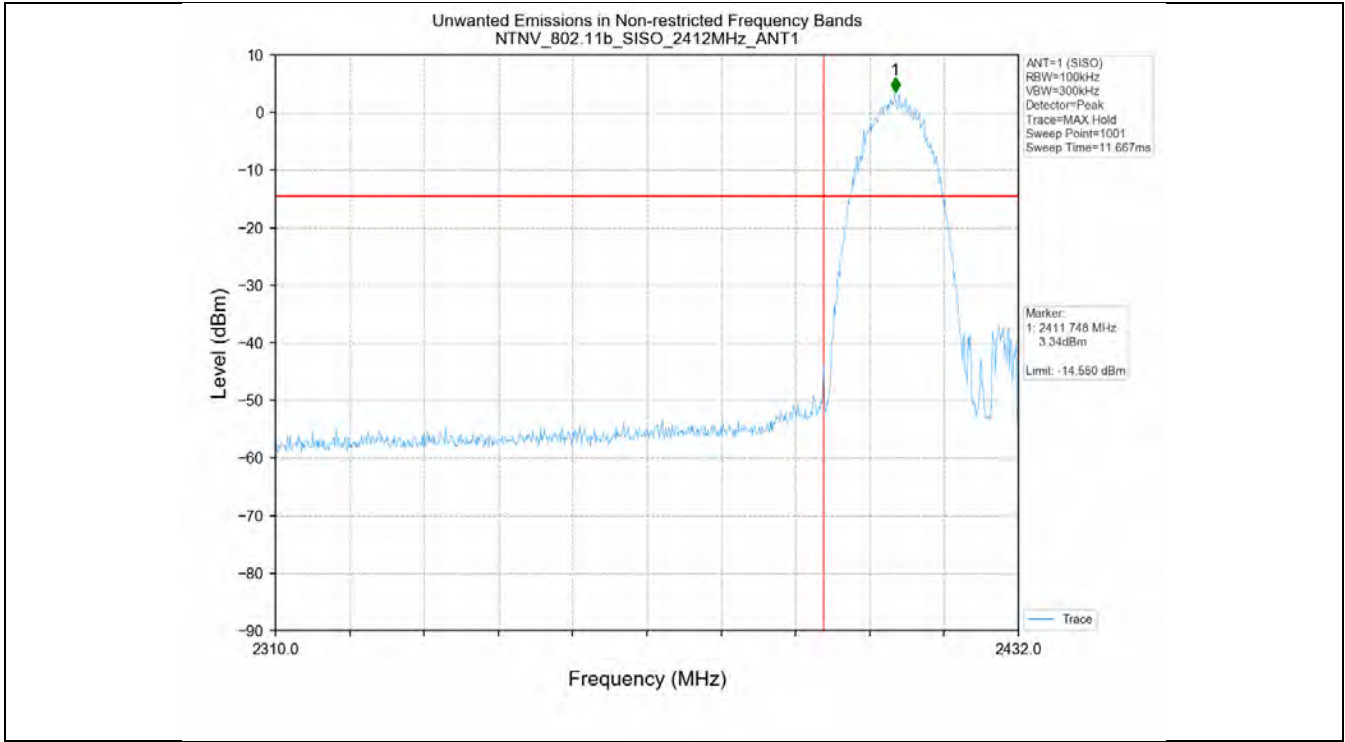
5. Unwanted Emissions in Non-restricted Frequency Bands

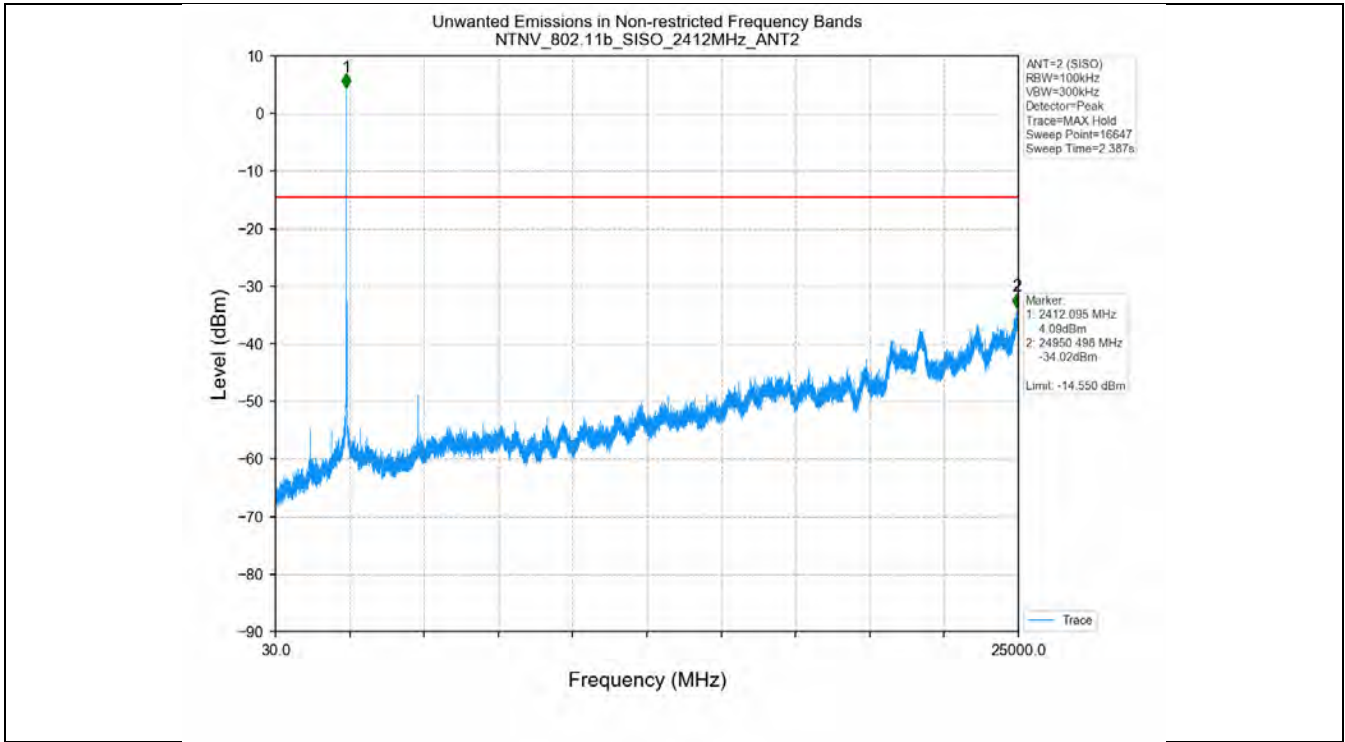
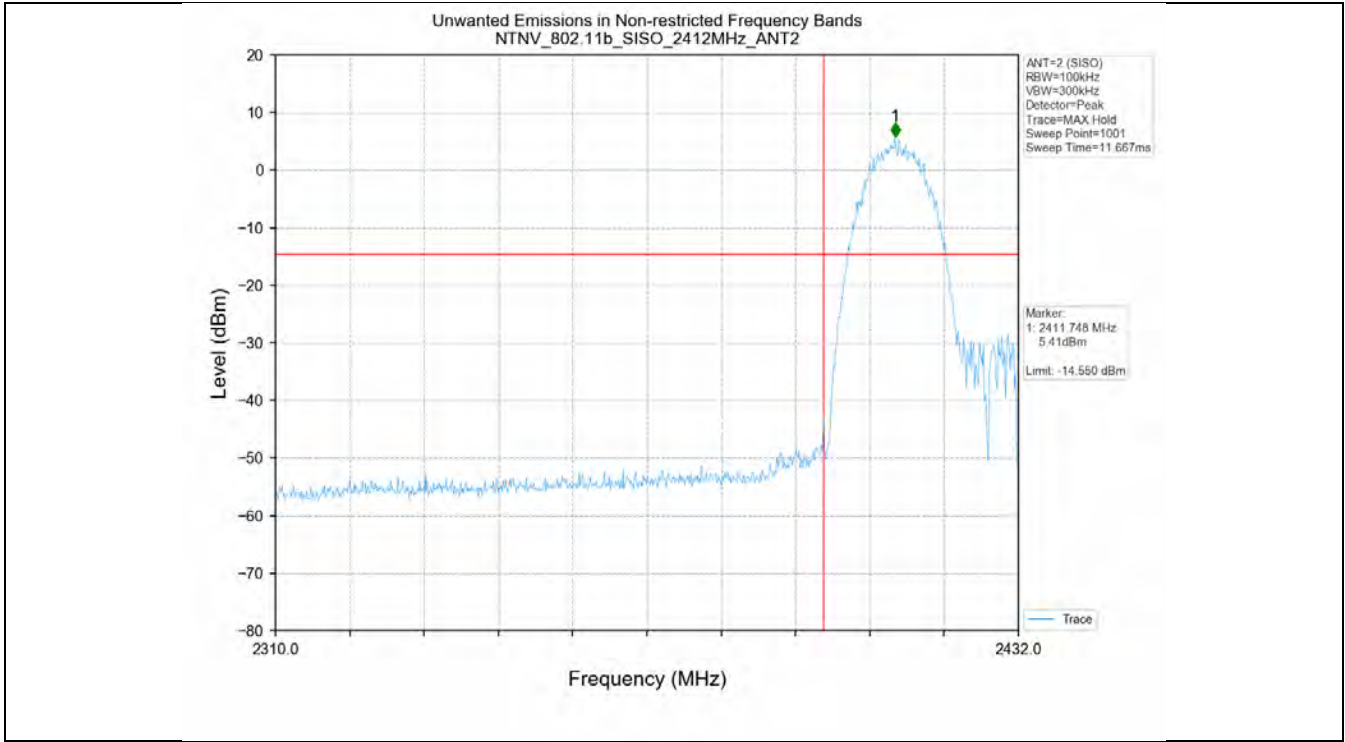
5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-14.55	PASS
			2	Refer to test graph	-14.55	PASS
	2437	SISO	1	Refer to test graph	-14.55	PASS
			2	Refer to test graph	-14.55	PASS
	2462	SISO	1	Refer to test graph	-14.55	PASS
			2	Refer to test graph	-14.55	PASS
802.11g	2412	SISO	1	Refer to test graph	-19.51	PASS
			2	Refer to test graph	-19.51	PASS
	2437	SISO	1	Refer to test graph	-19.51	PASS
			2	Refer to test graph	-19.51	PASS
	2462	SISO	1	Refer to test graph	-19.51	PASS
			2	Refer to test graph	-19.51	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-23.64	PASS
			2	Refer to test graph	-23.64	PASS
	2437	MIMO	1	Refer to test graph	-23.64	PASS
			2	Refer to test graph	-23.64	PASS
	2462	MIMO	1	Refer to test graph	-23.64	PASS
			2	Refer to test graph	-23.64	PASS

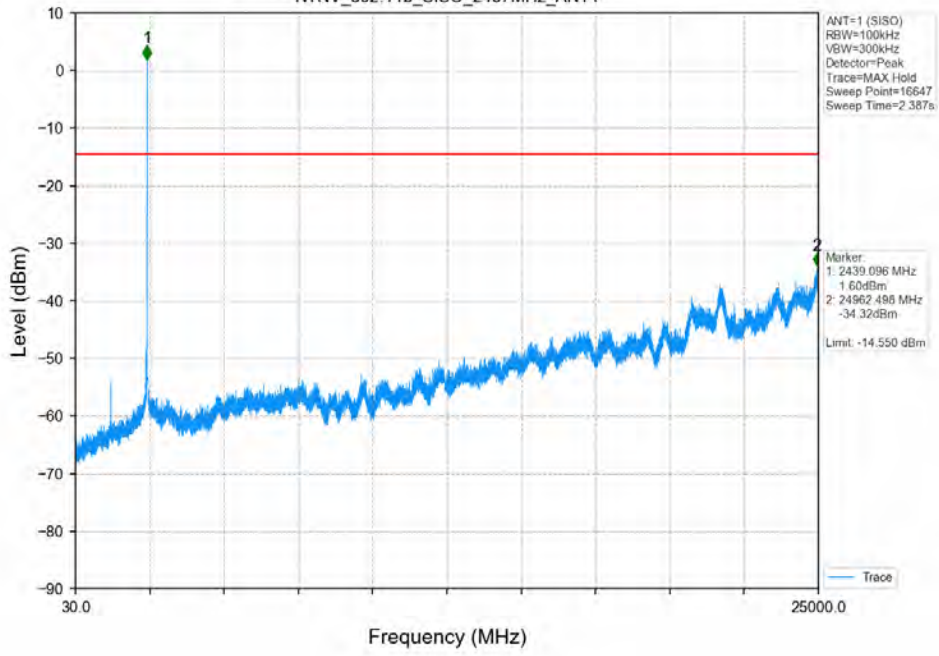
5.2 Test Graph



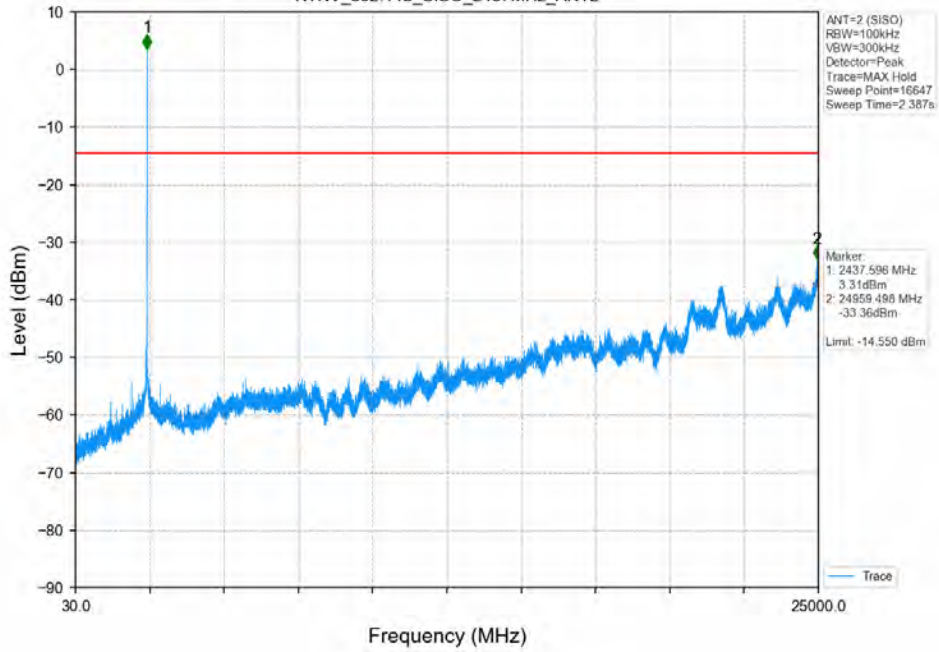


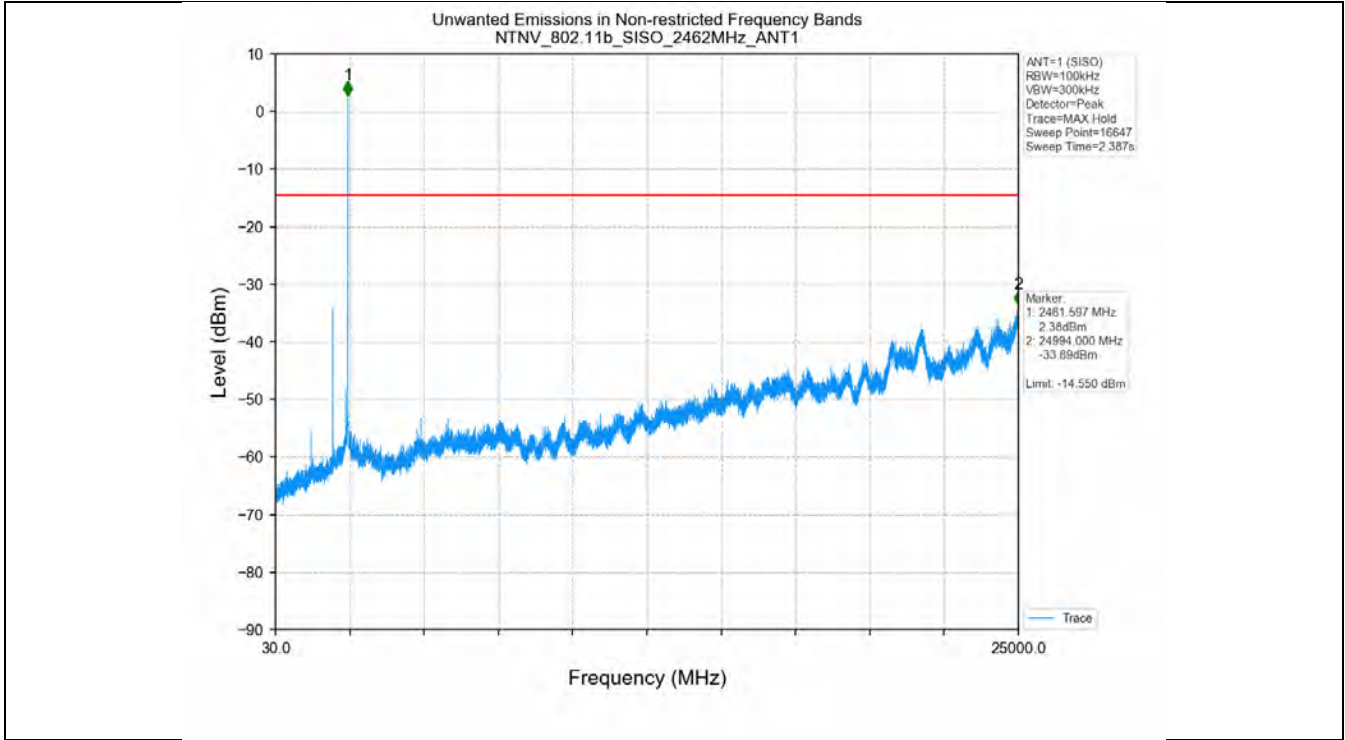
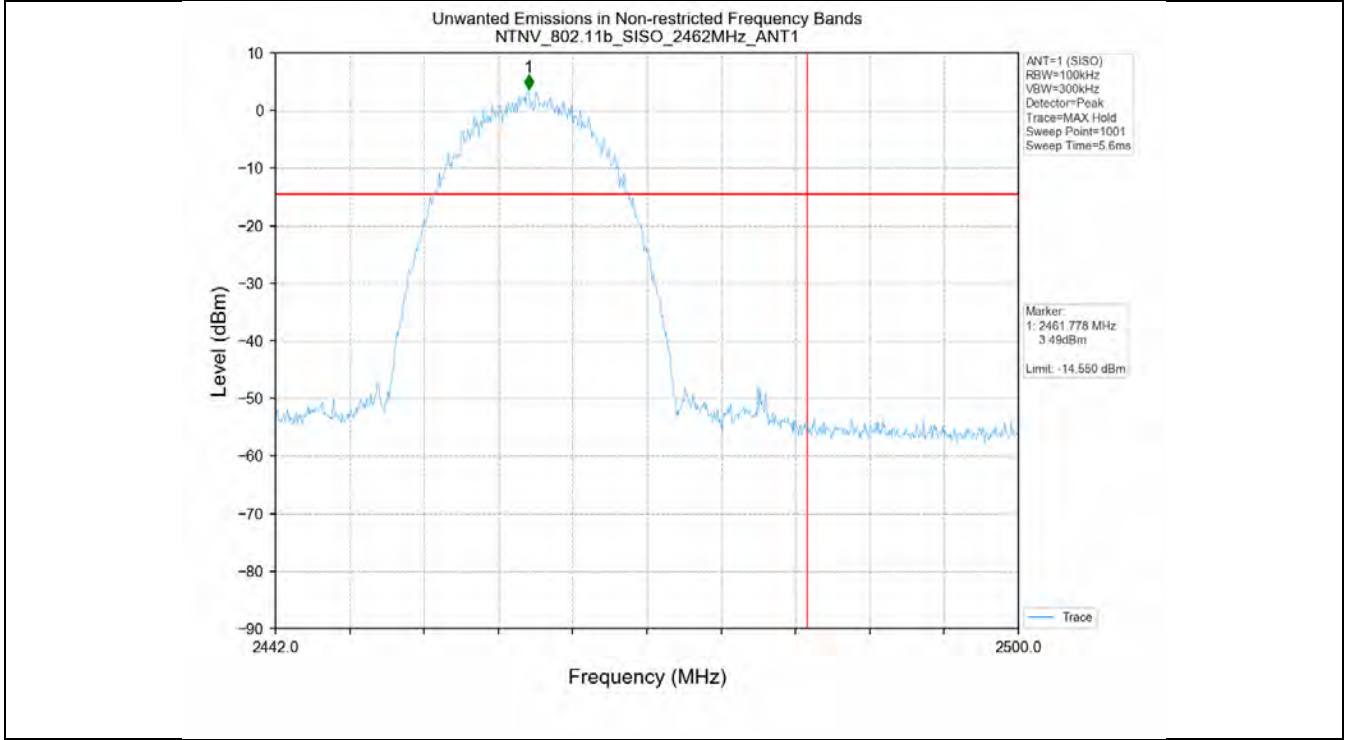


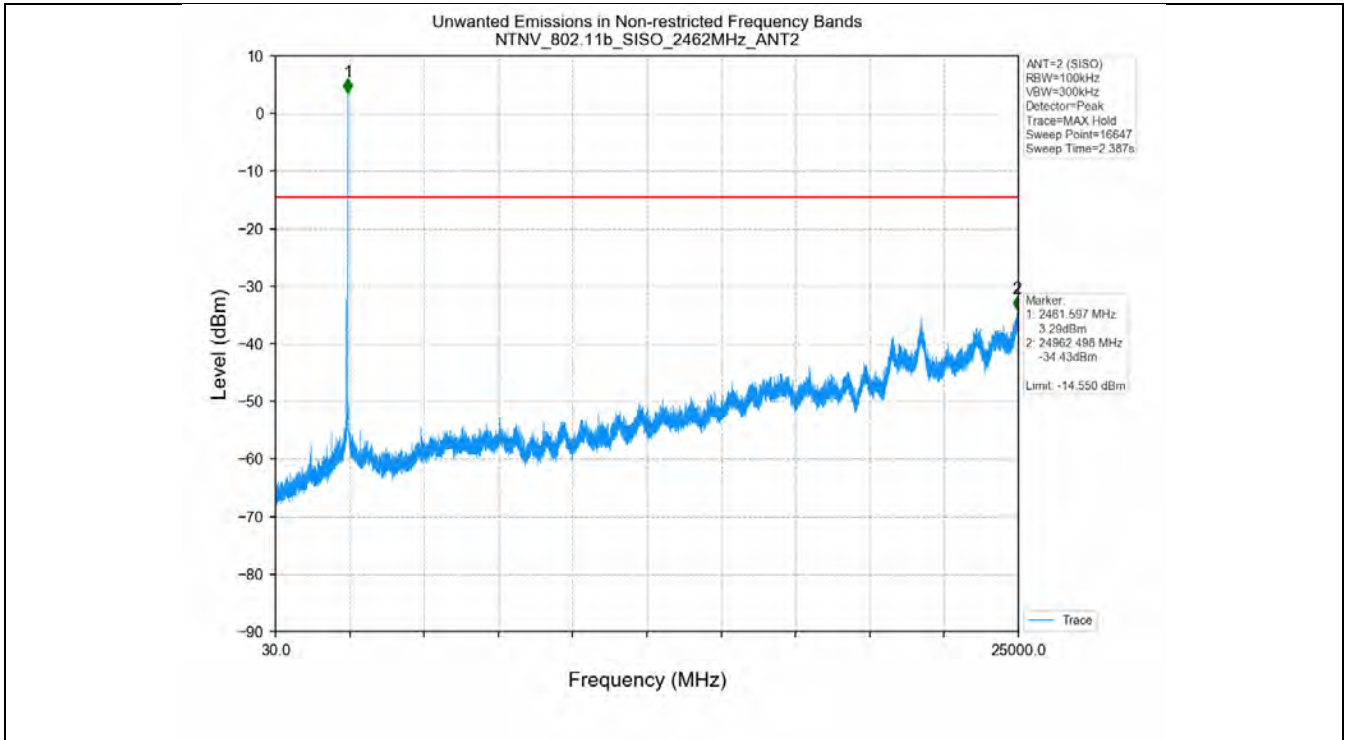
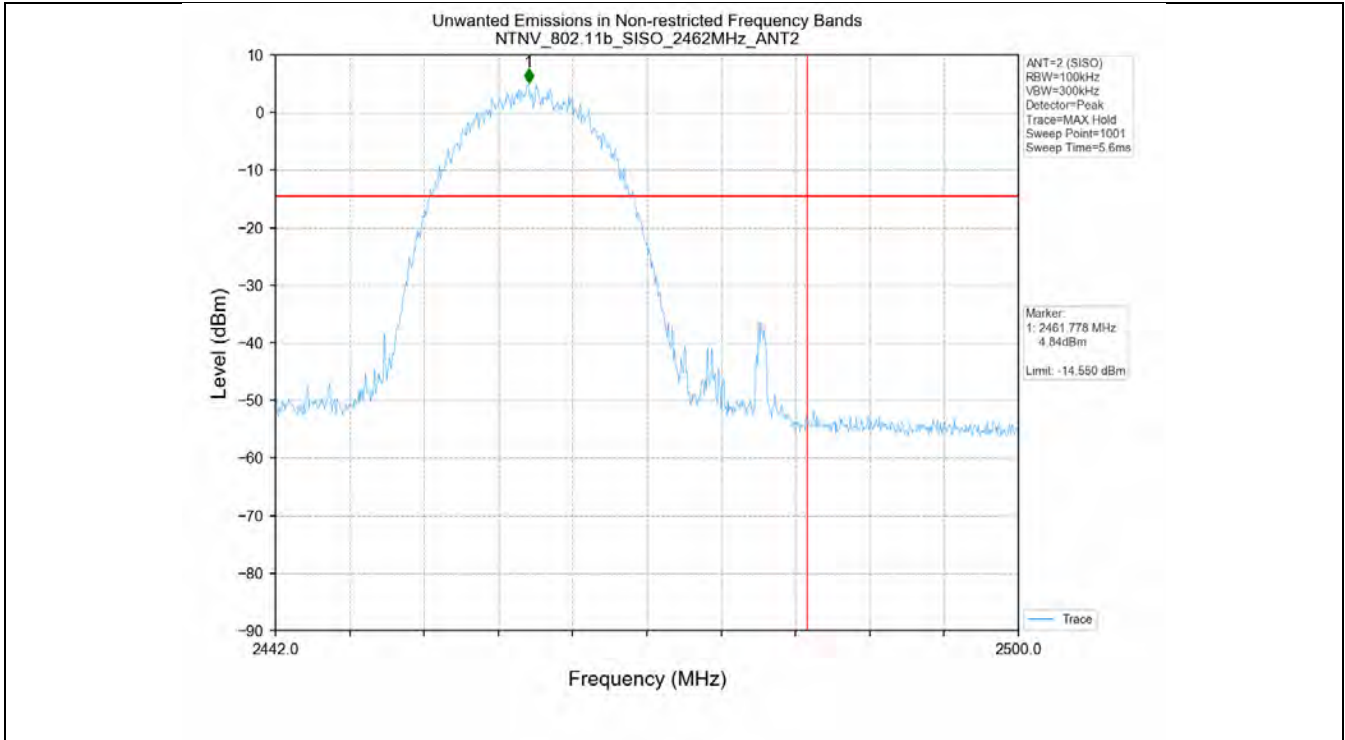
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2437MHz_ANT1

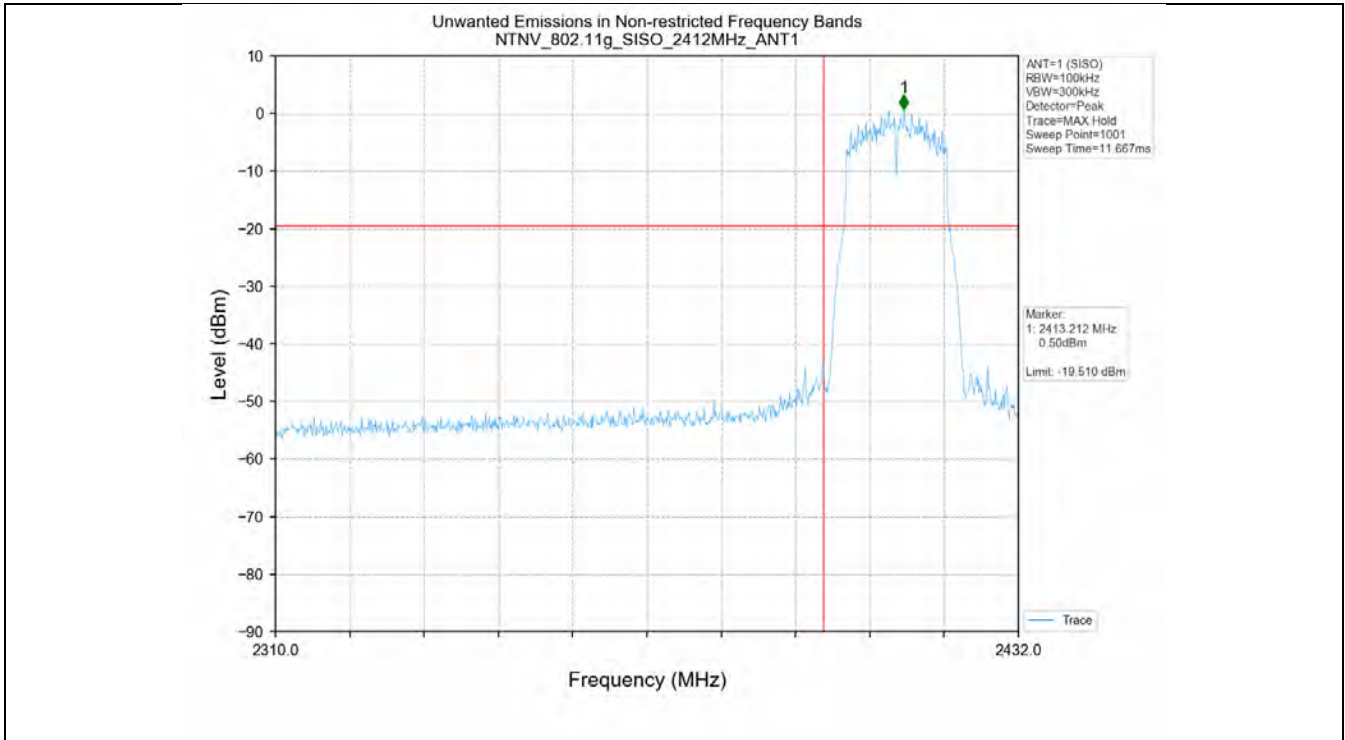
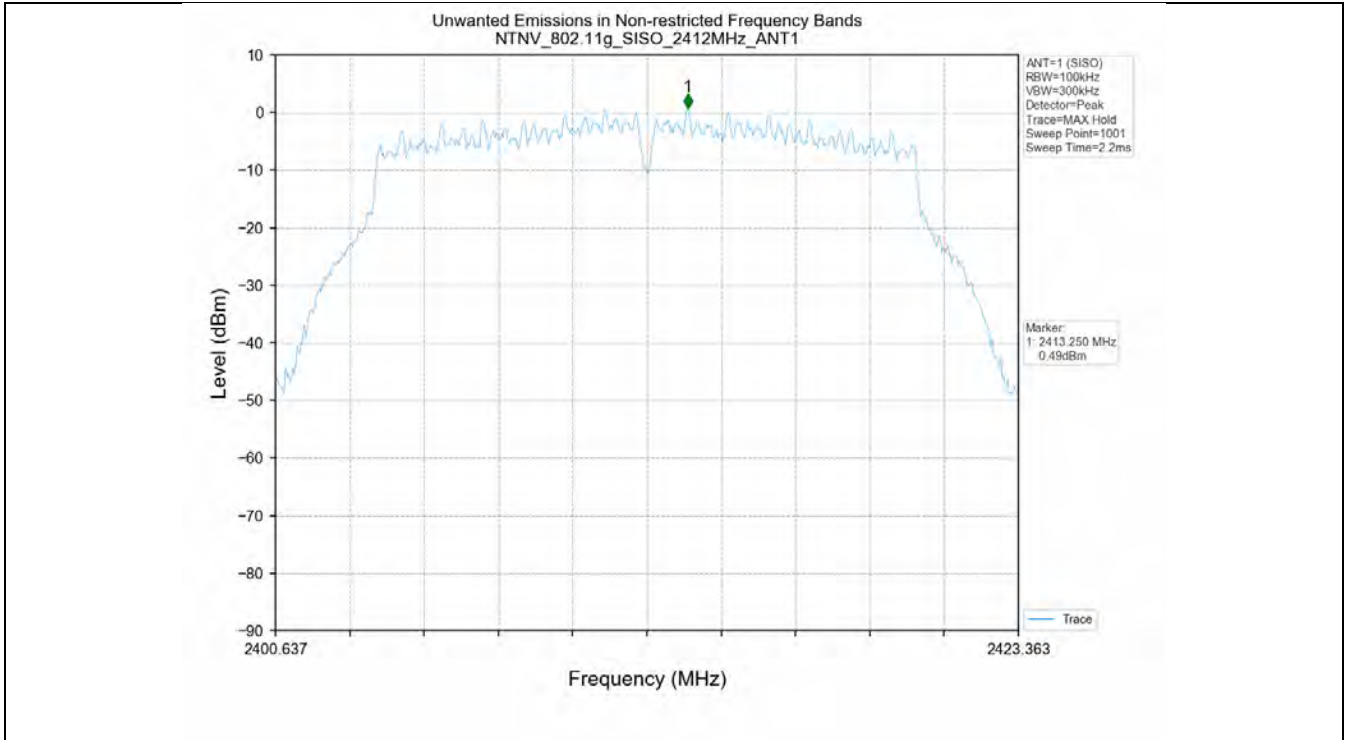


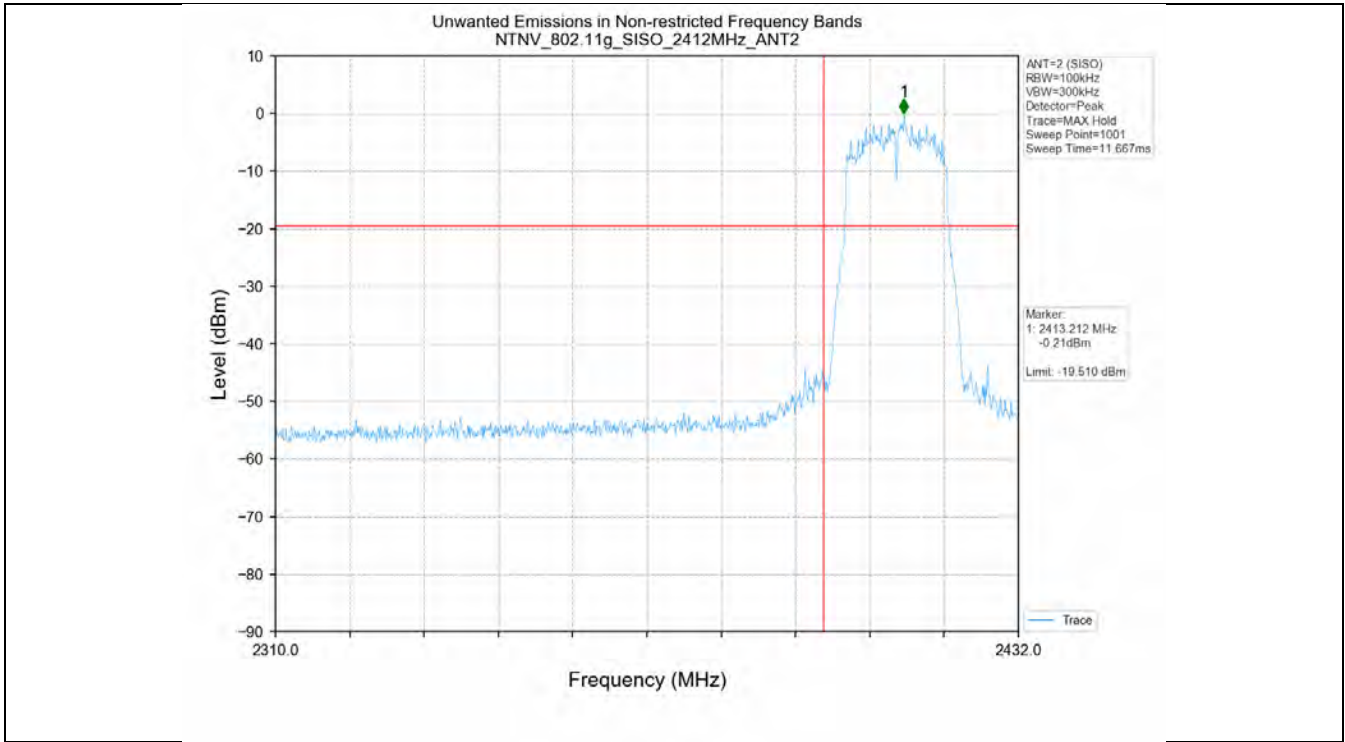
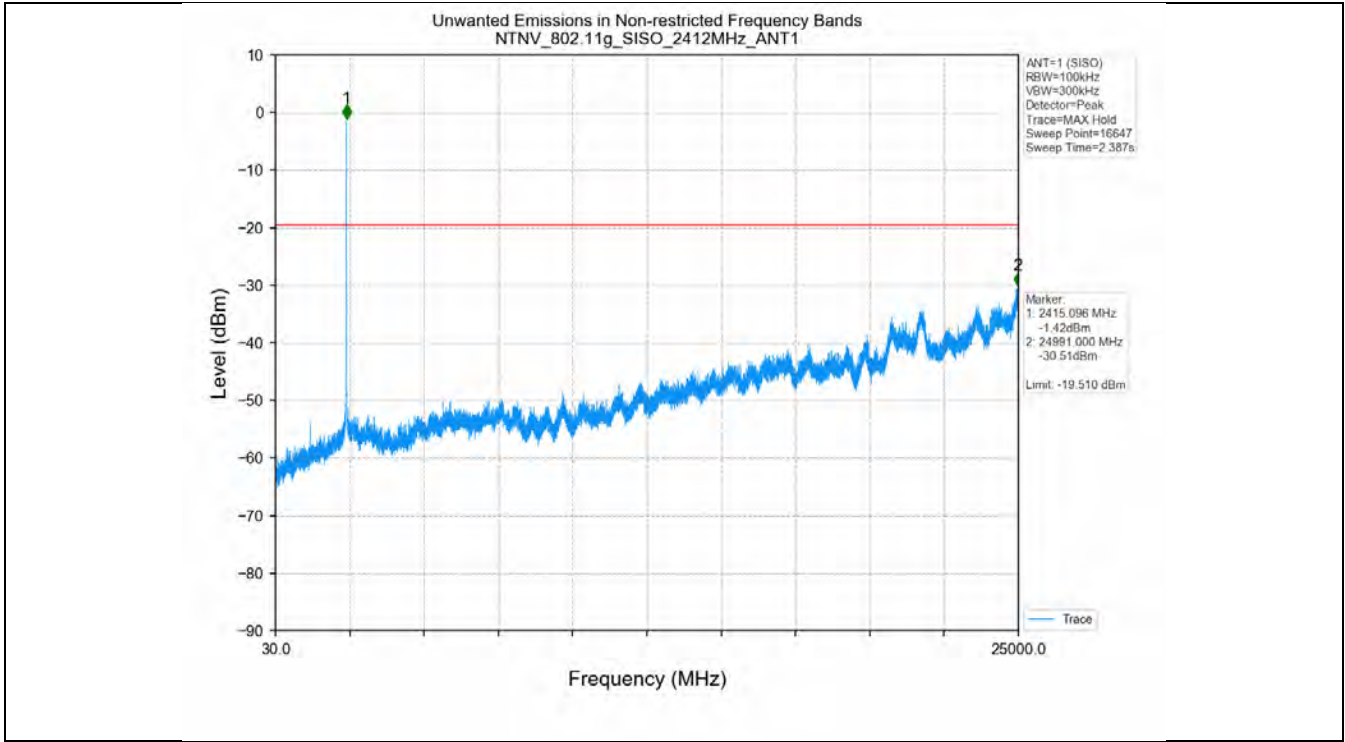
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2437MHz_ANT2

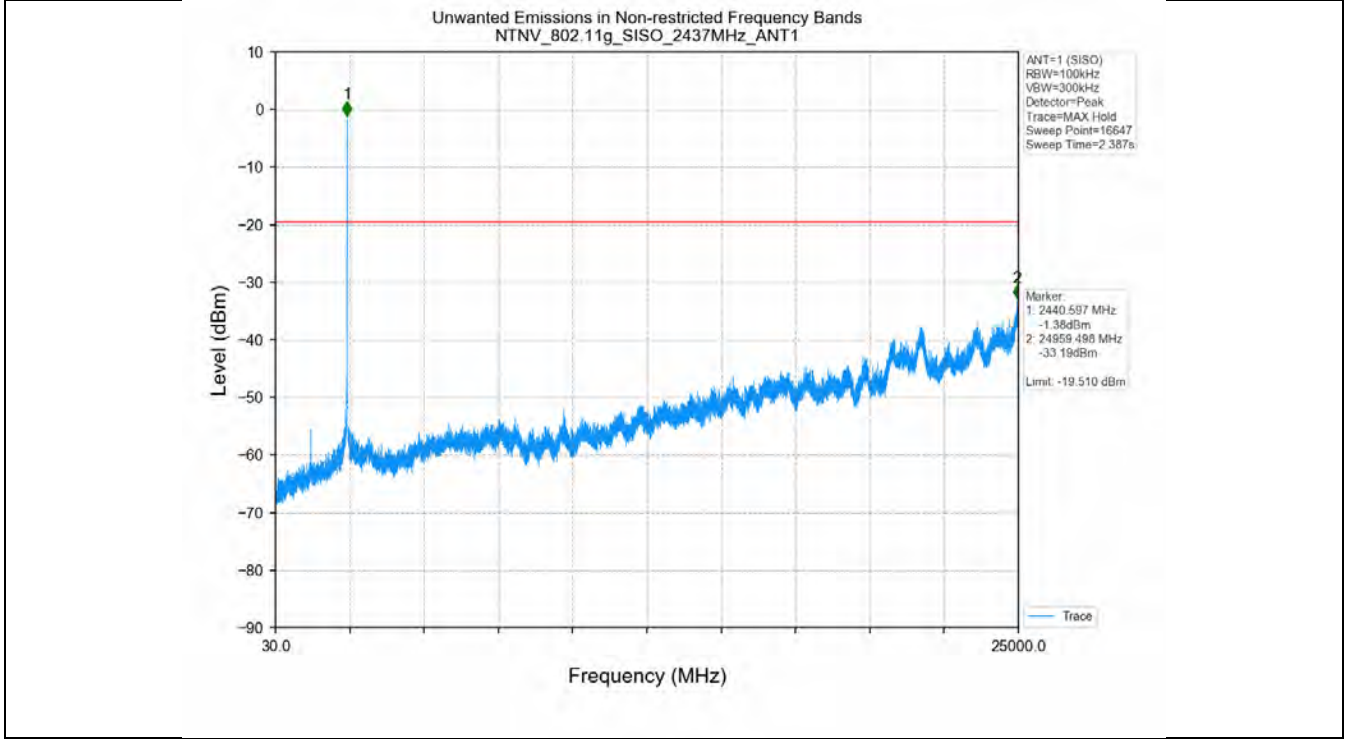
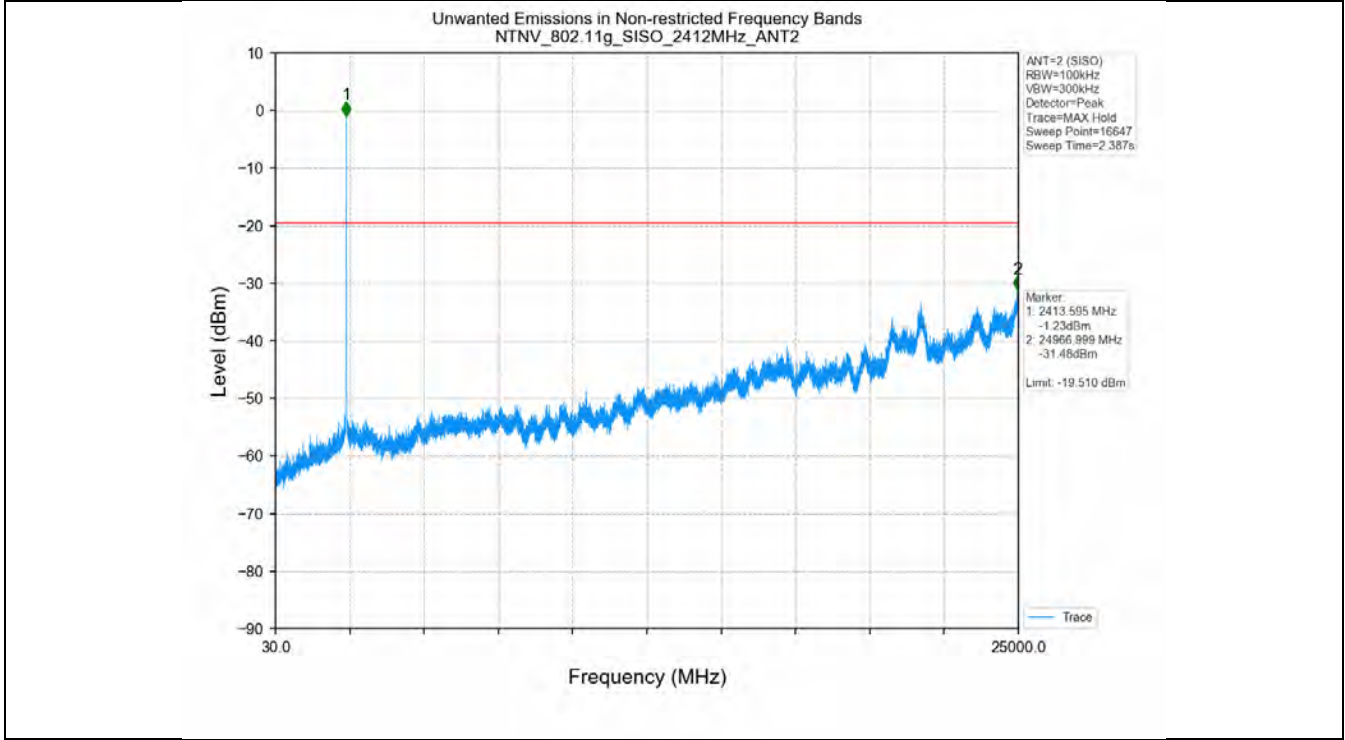


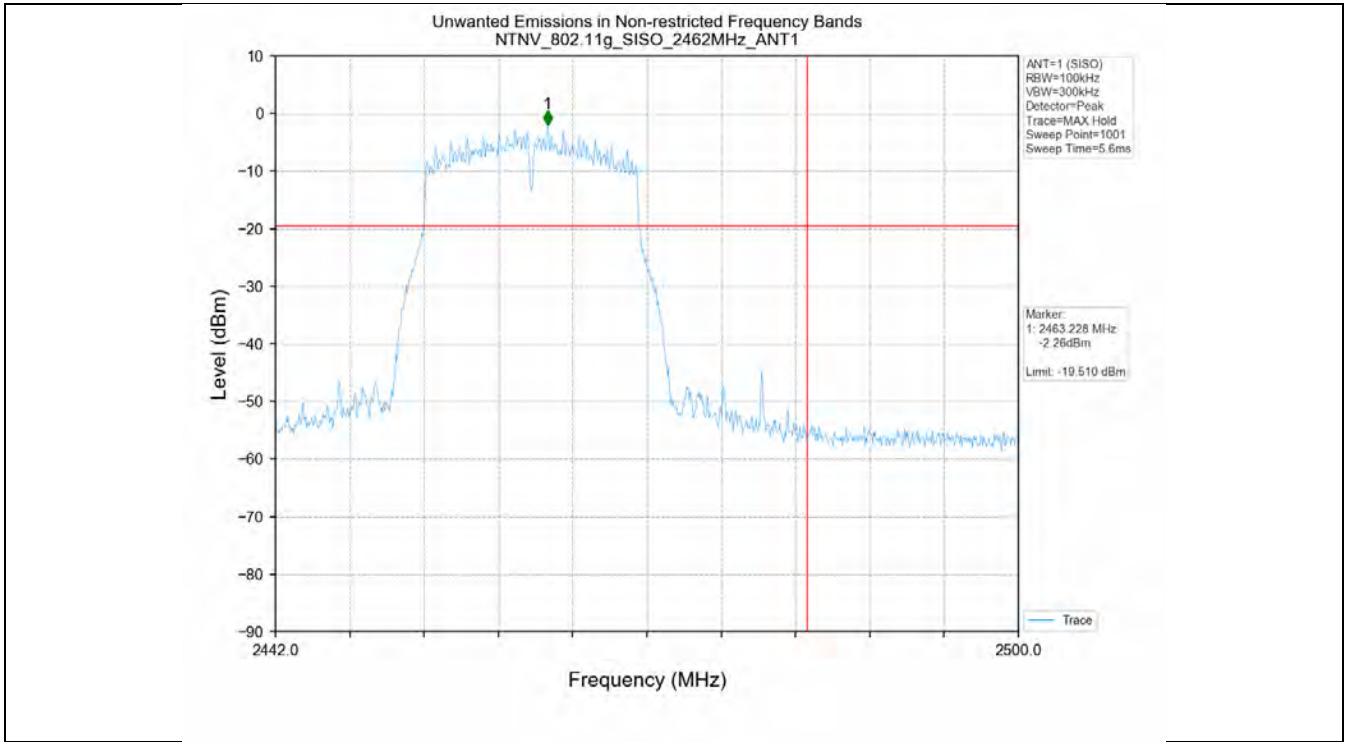
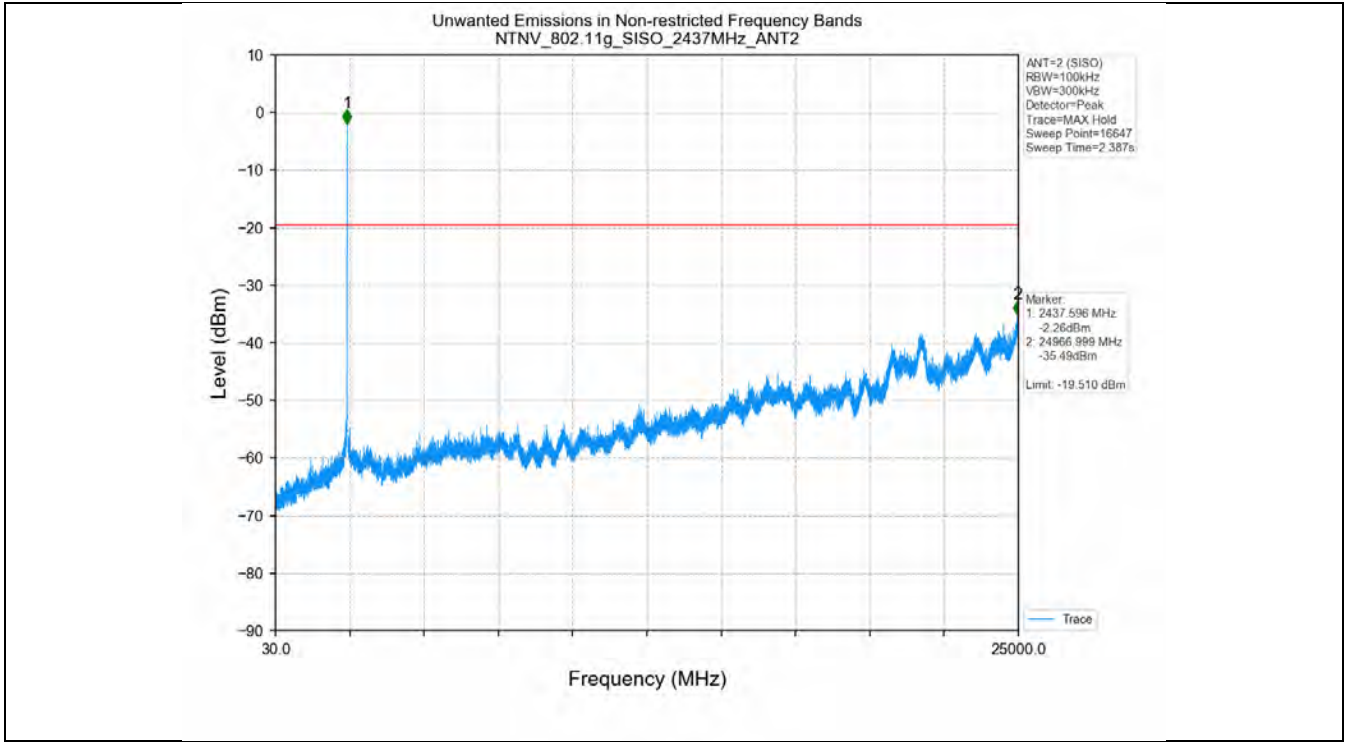


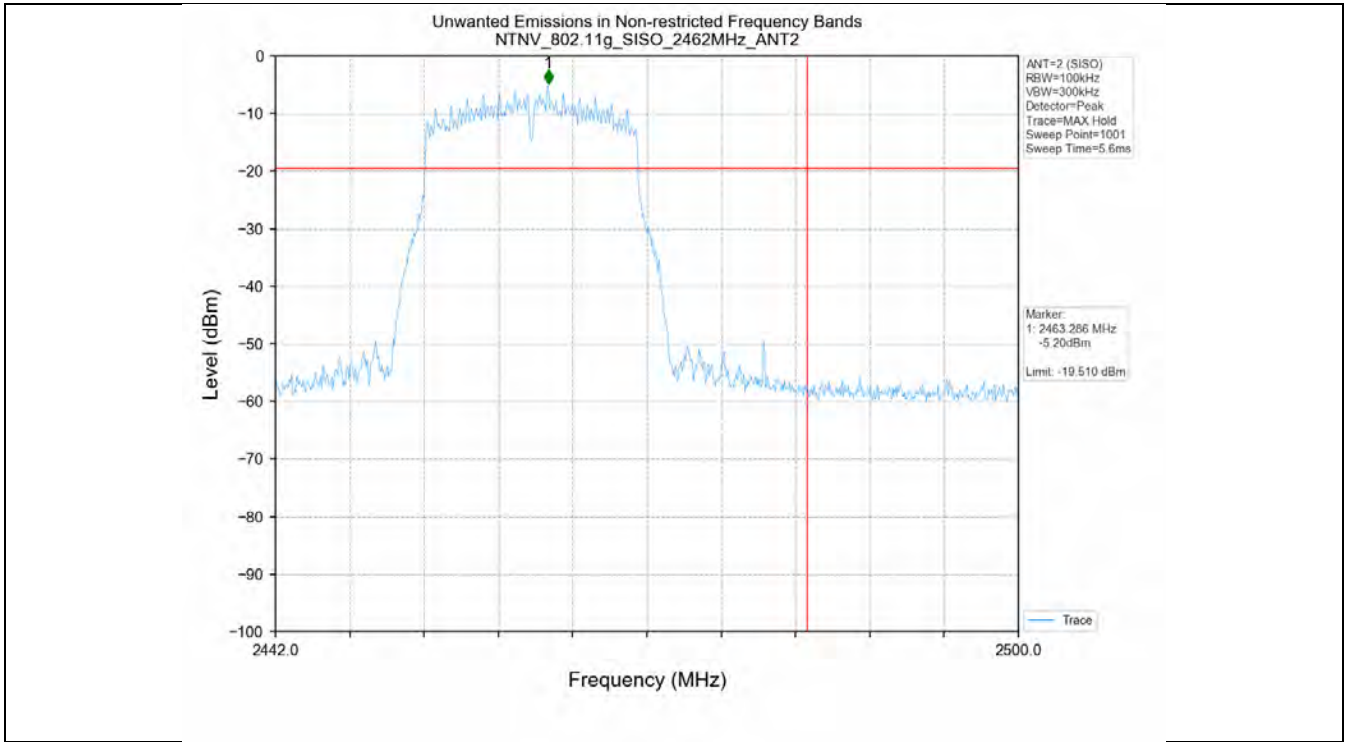
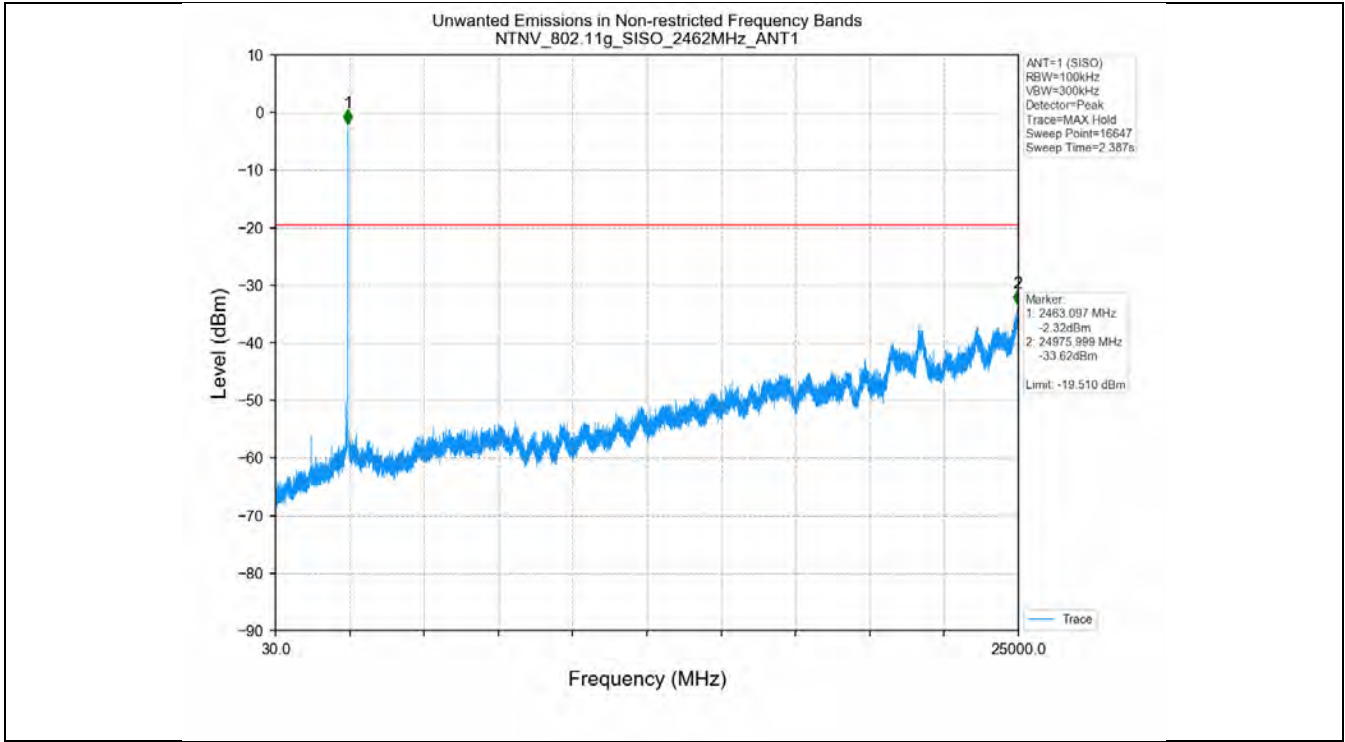


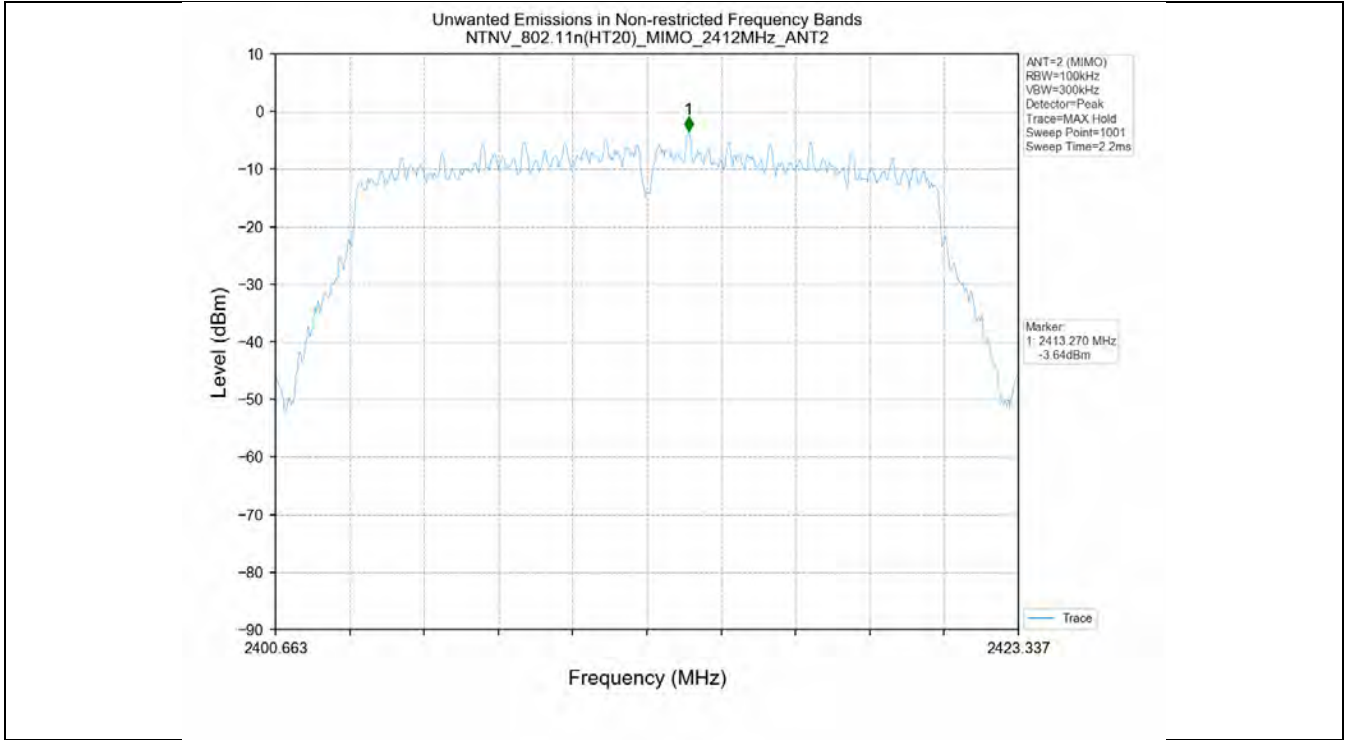
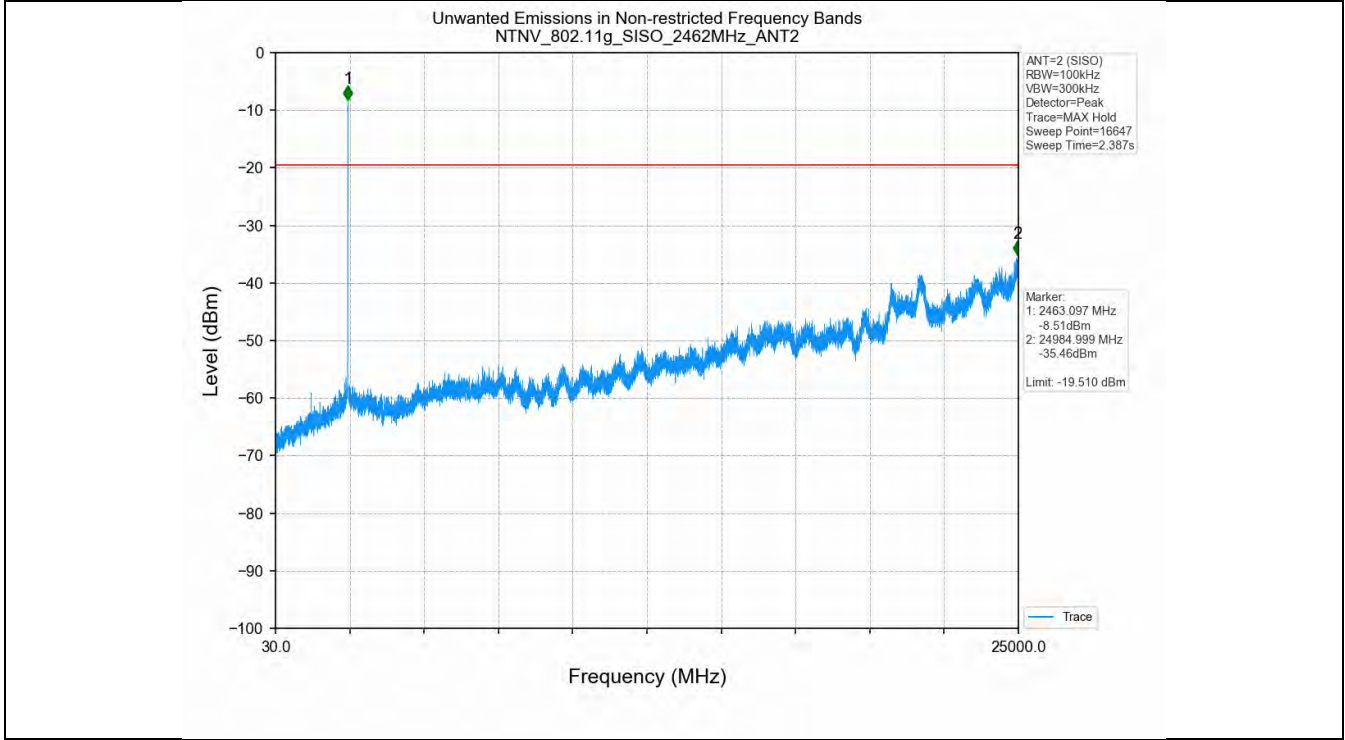


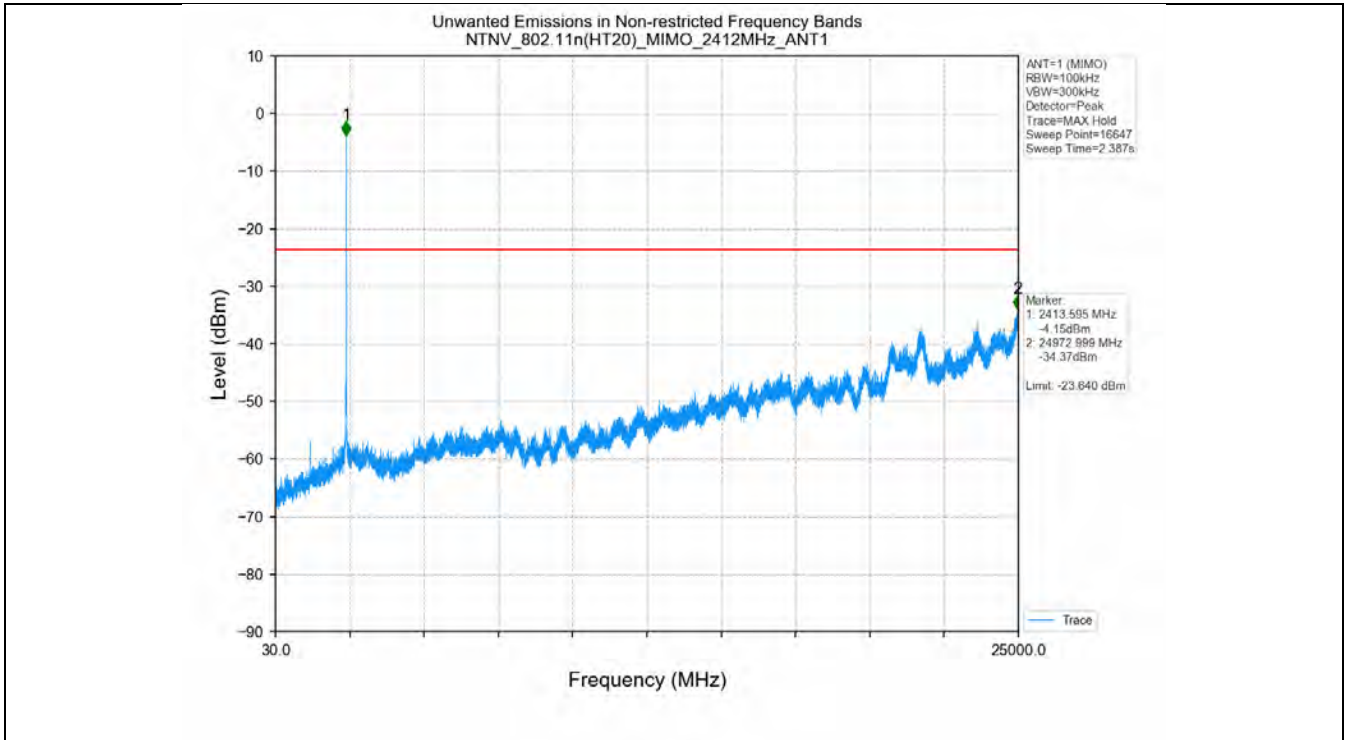
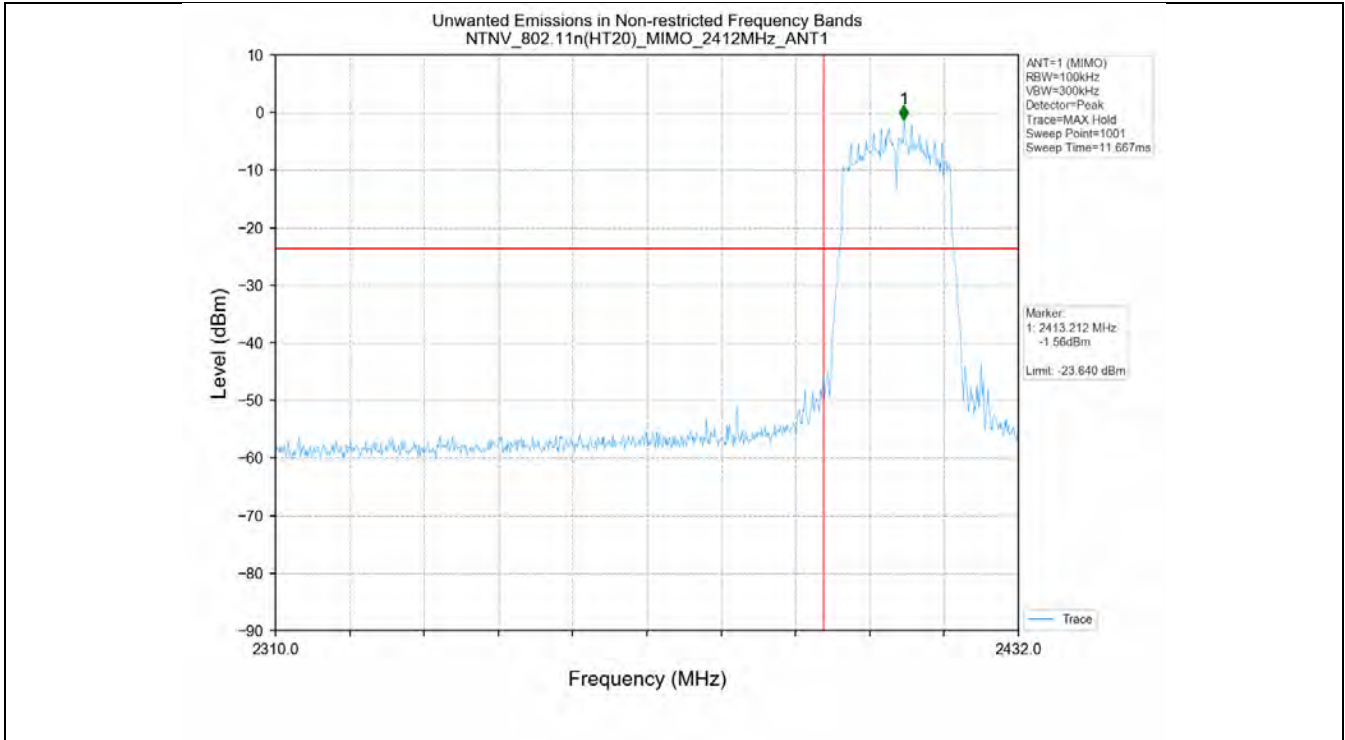


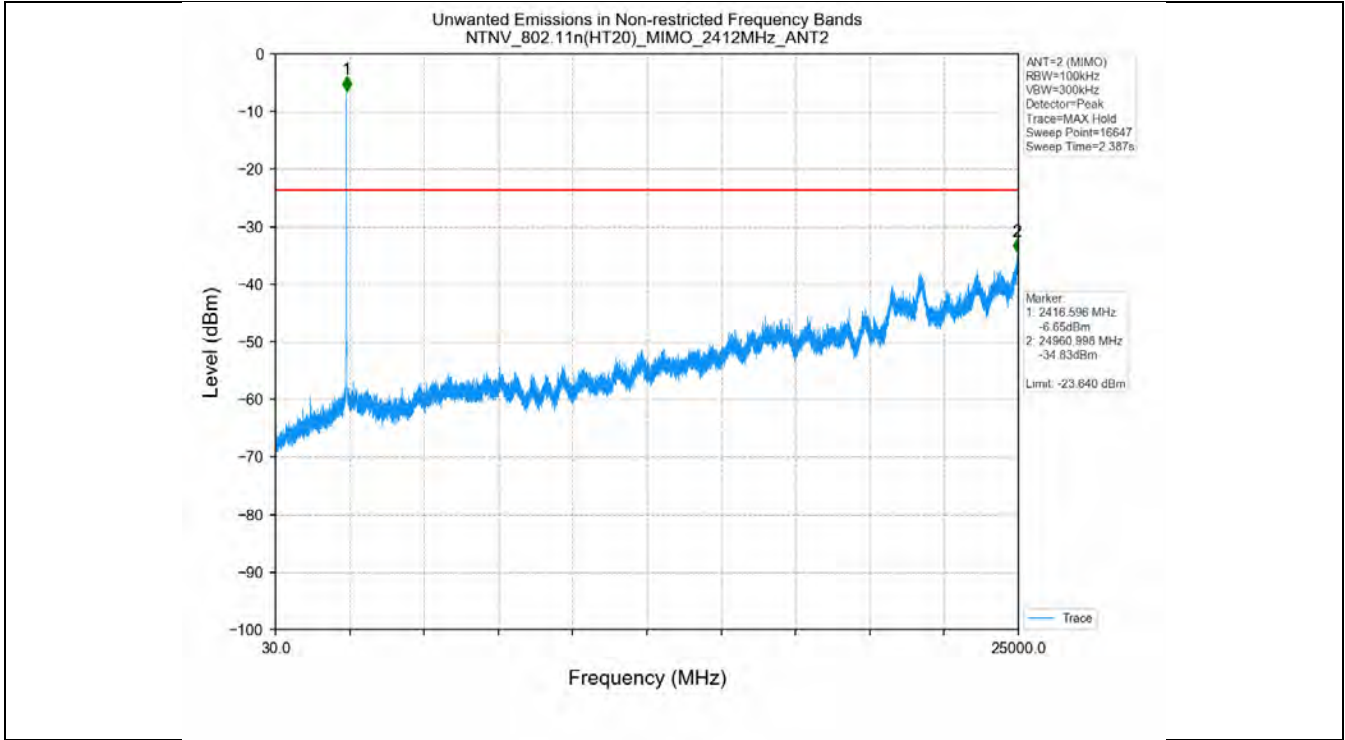
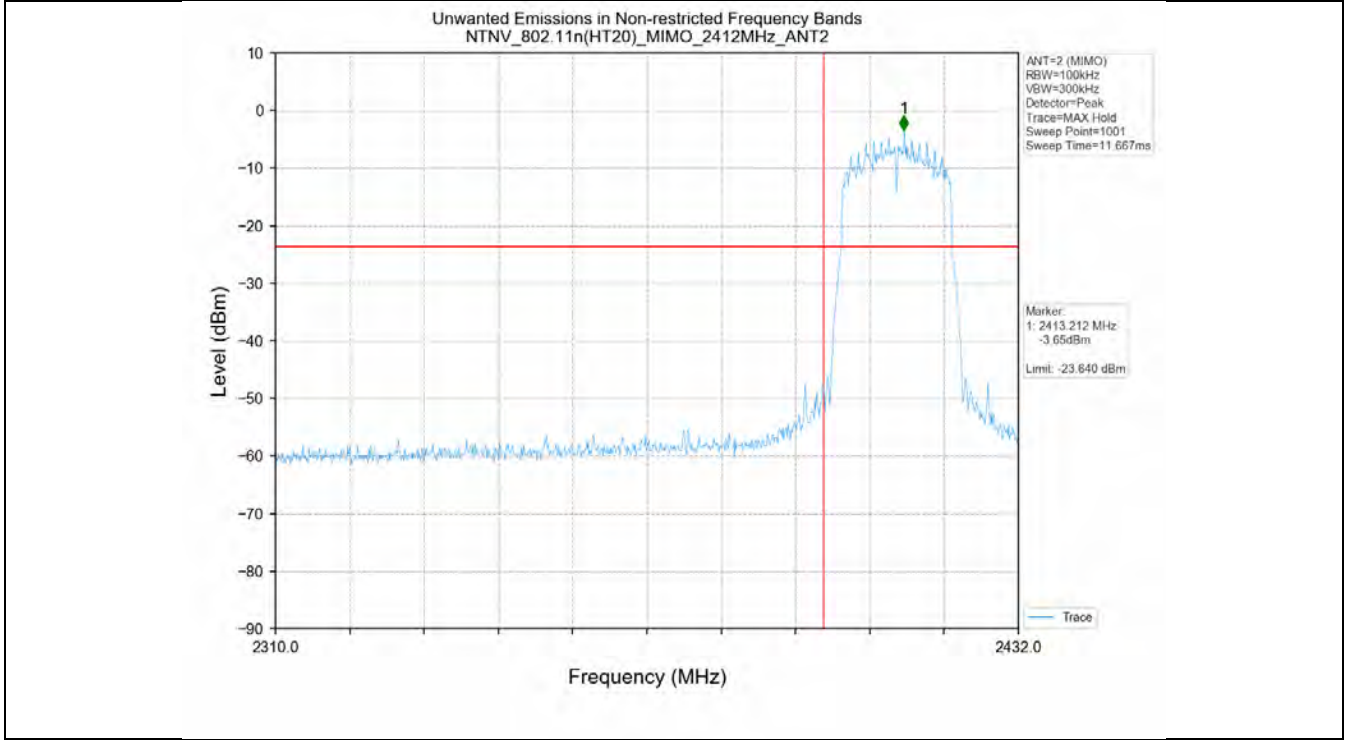




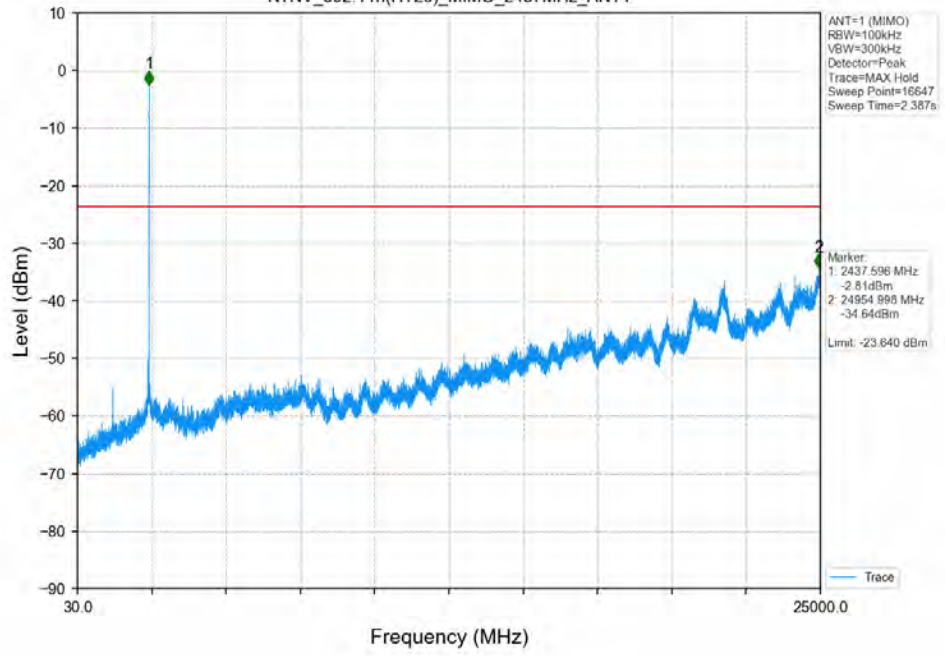








Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2437MHz_ANT1



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2437MHz_ANT2

