

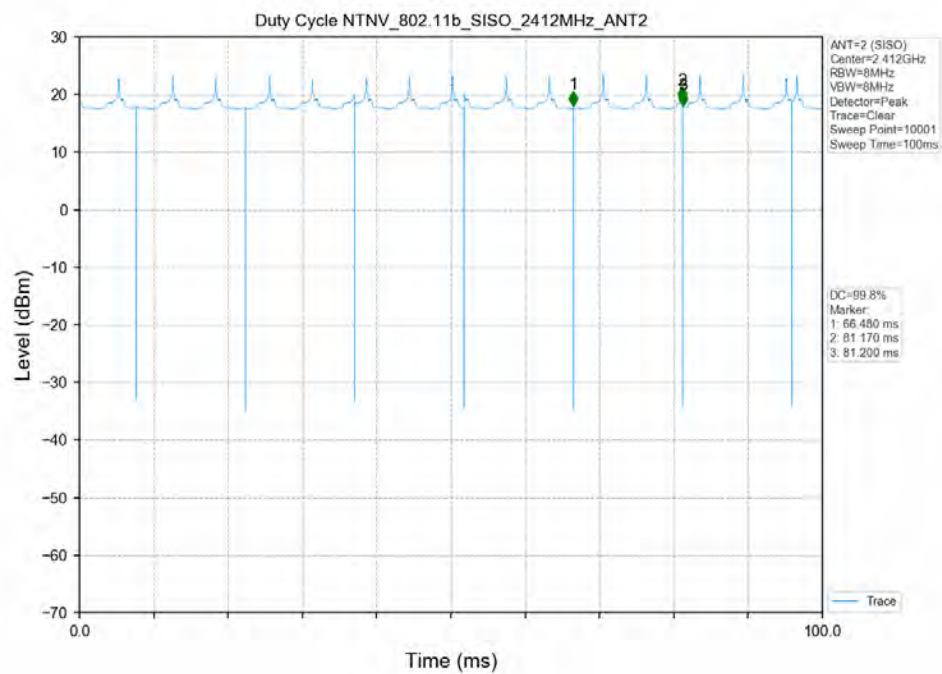
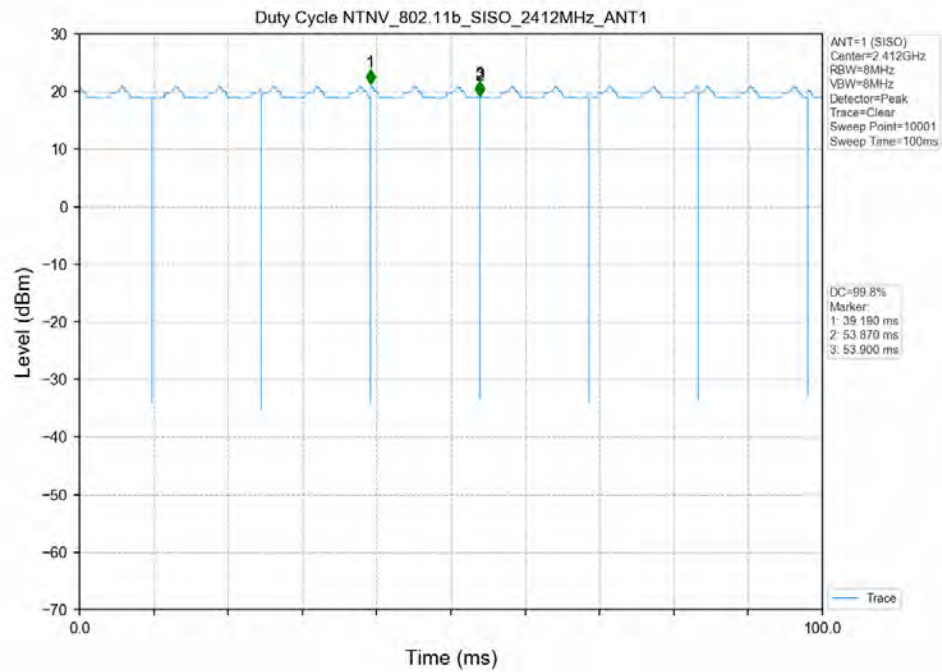
Appendix I for KSEM200900114501

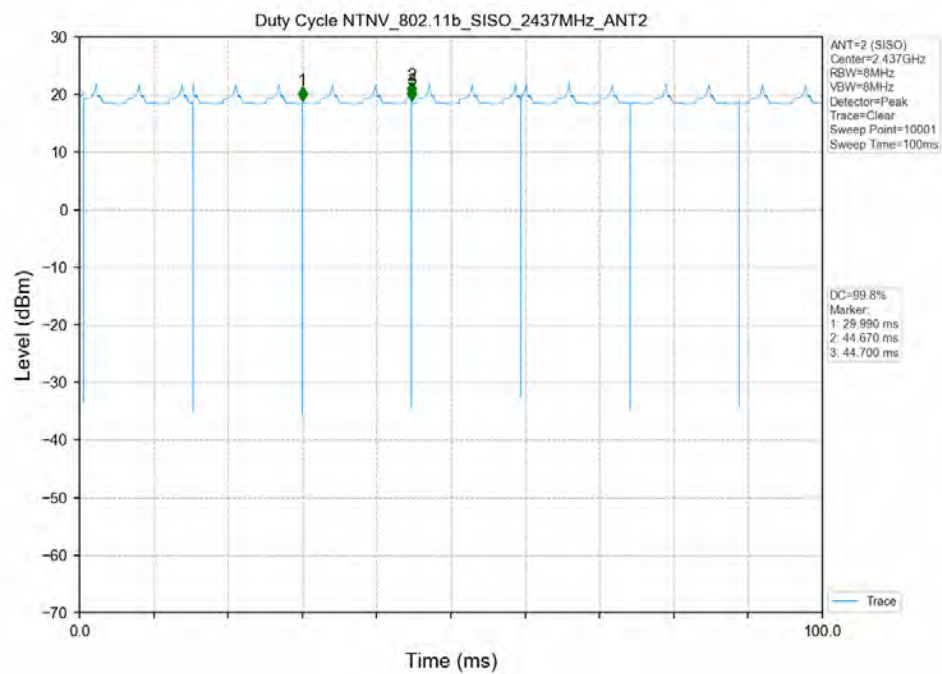
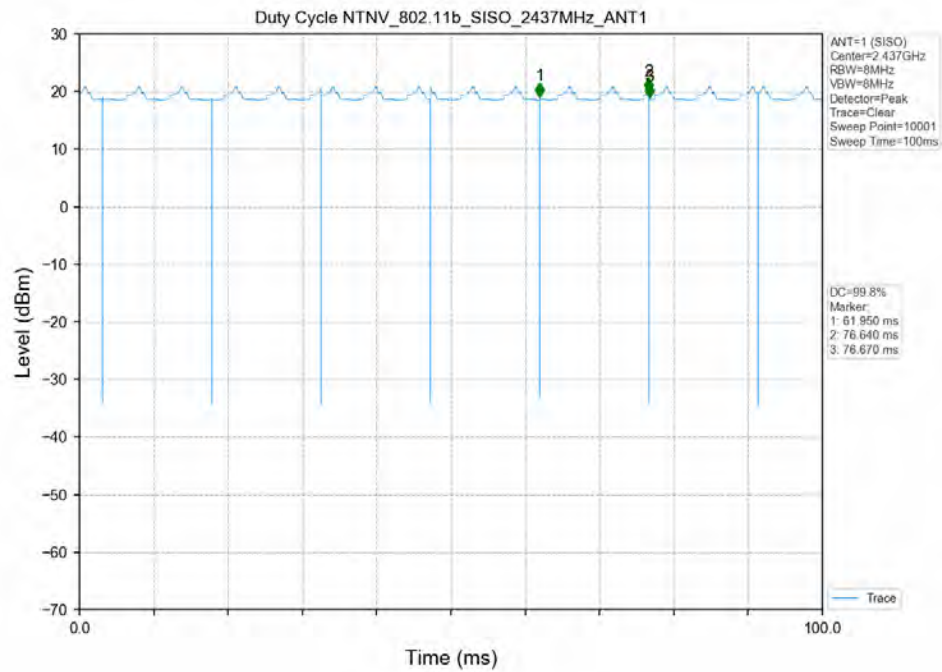
1. Duty Cycle

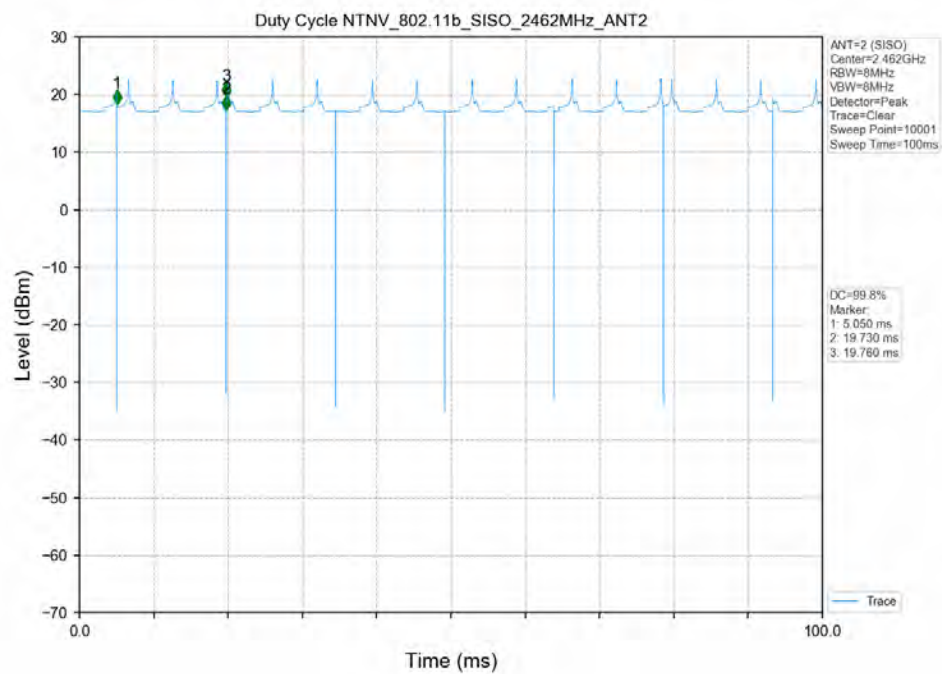
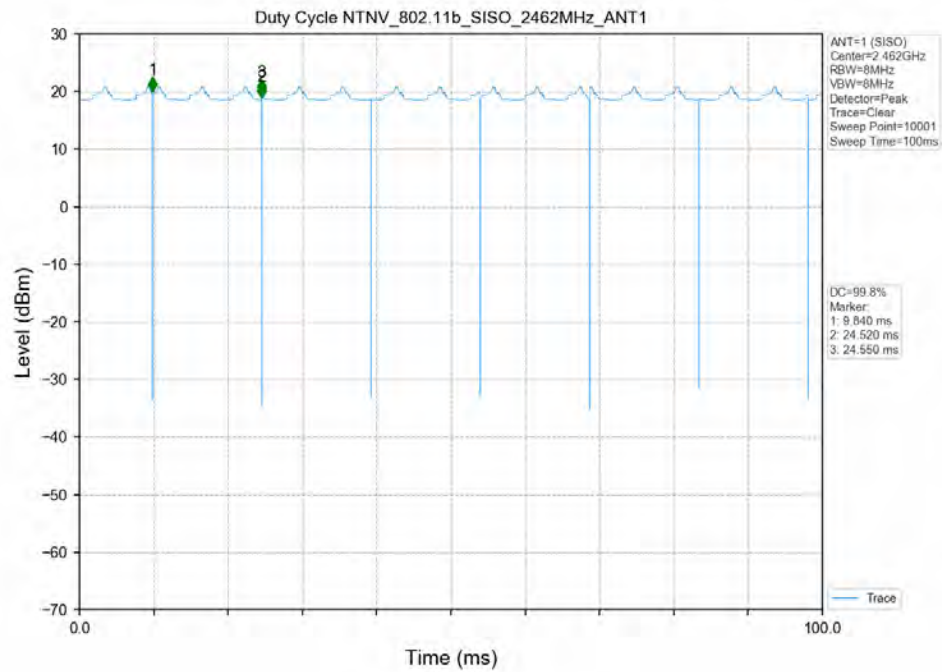
1.1 Test Result

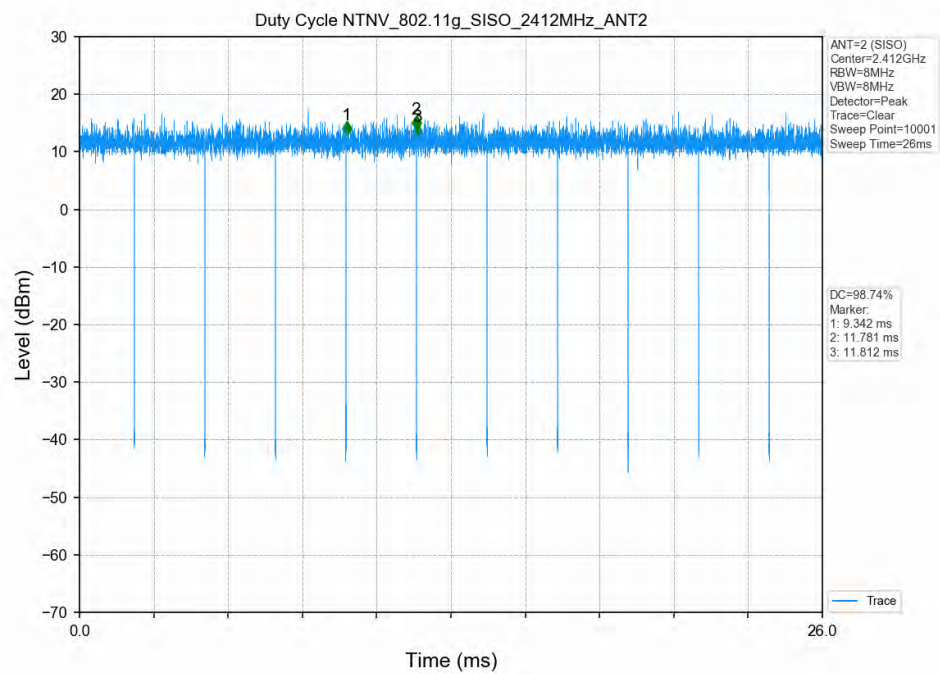
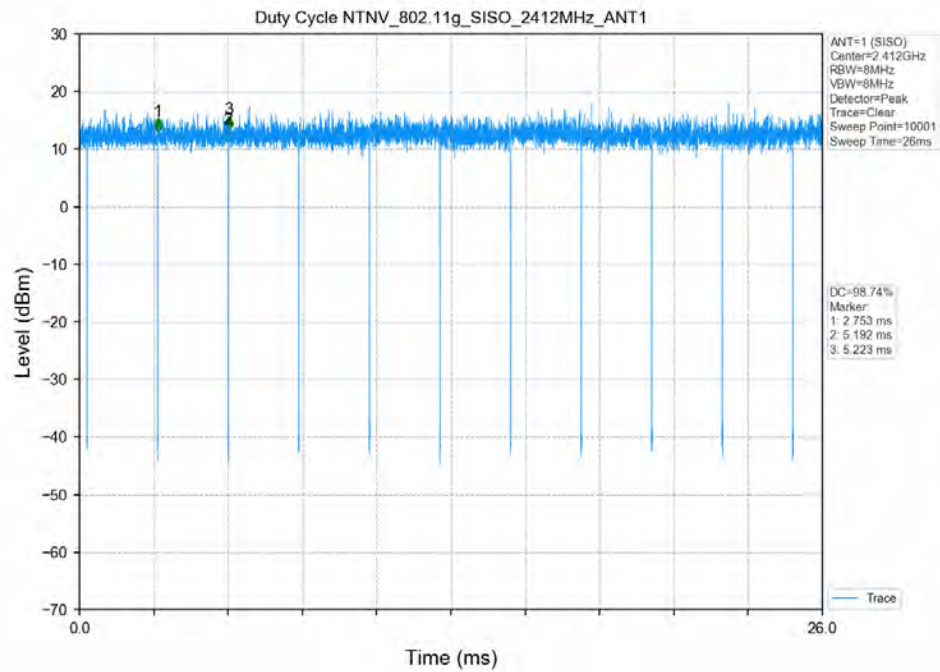
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	14.680	14.710	99.80	0.01
			2	14.690	14.720	99.80	0.01
	2437	SISO	1	14.690	14.720	99.80	0.01
			2	14.680	14.710	99.80	0.01
	2462	SISO	1	14.680	14.710	99.80	0.01
			2	14.680	14.710	99.80	0.01
802.11g	2412	SISO	1	2.439	2.470	98.74	0.06
			2	2.439	2.470	98.74	0.06
	2437	SISO	1	2.439	2.470	98.74	0.06
			2	2.438	2.470	98.70	0.06
	2462	SISO	1	2.439	2.470	98.74	0.06
			2	2.439	2.470	98.74	0.06
802.11n(HT20)	2412	MIMO	1	0.259	0.289	89.62	0.48
			2	0.259	0.289	89.62	0.48
	2437	MIMO	1	0.259	0.289	89.62	0.48
			2	0.260	0.289	89.97	0.46
	2462	MIMO	1	0.260	0.290	89.66	0.47
			2	0.260	0.289	89.97	0.46

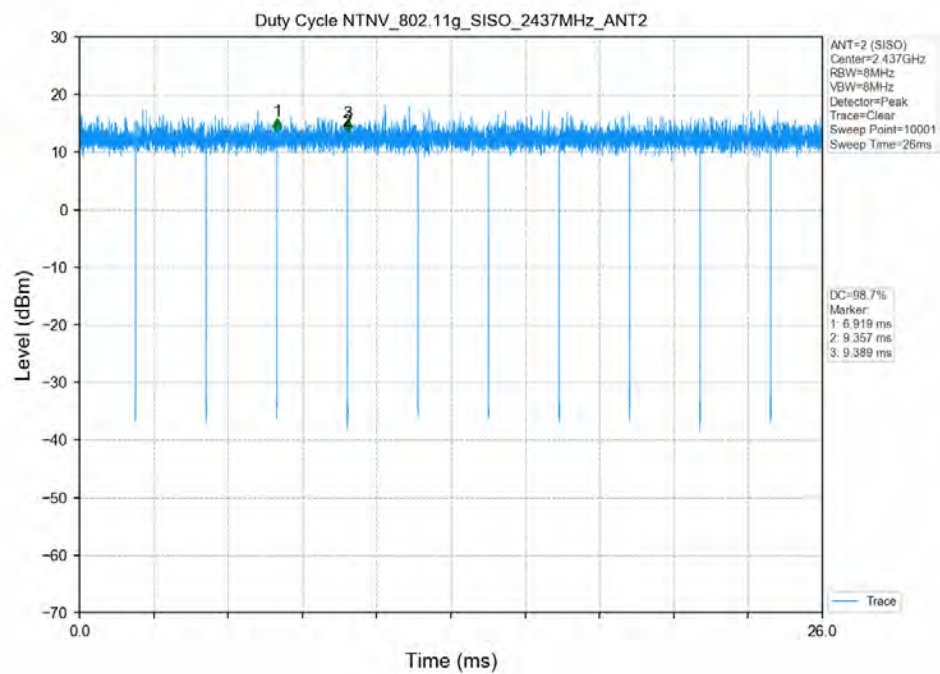
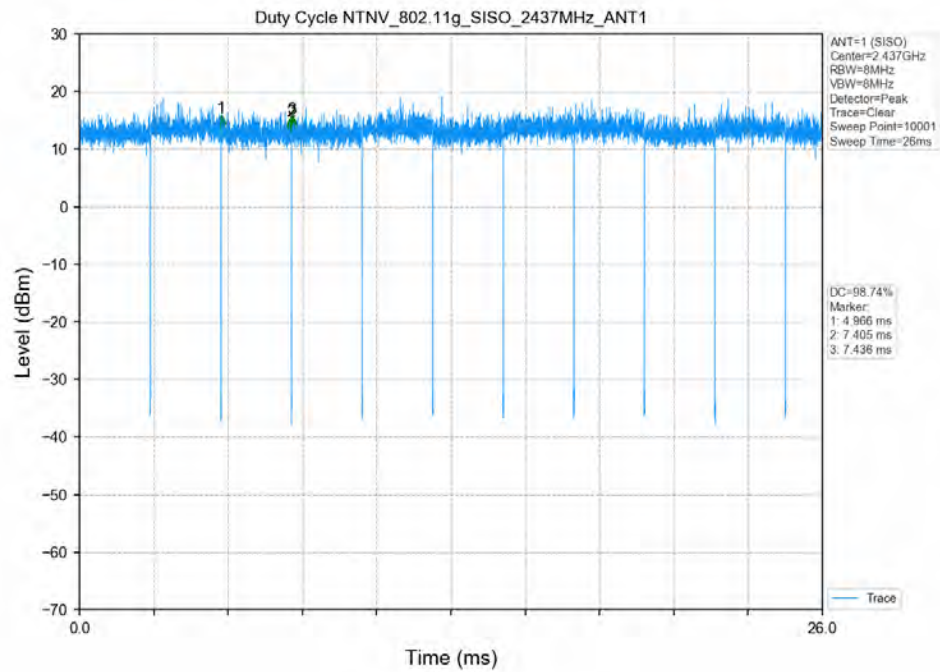
1.2 Test Graph

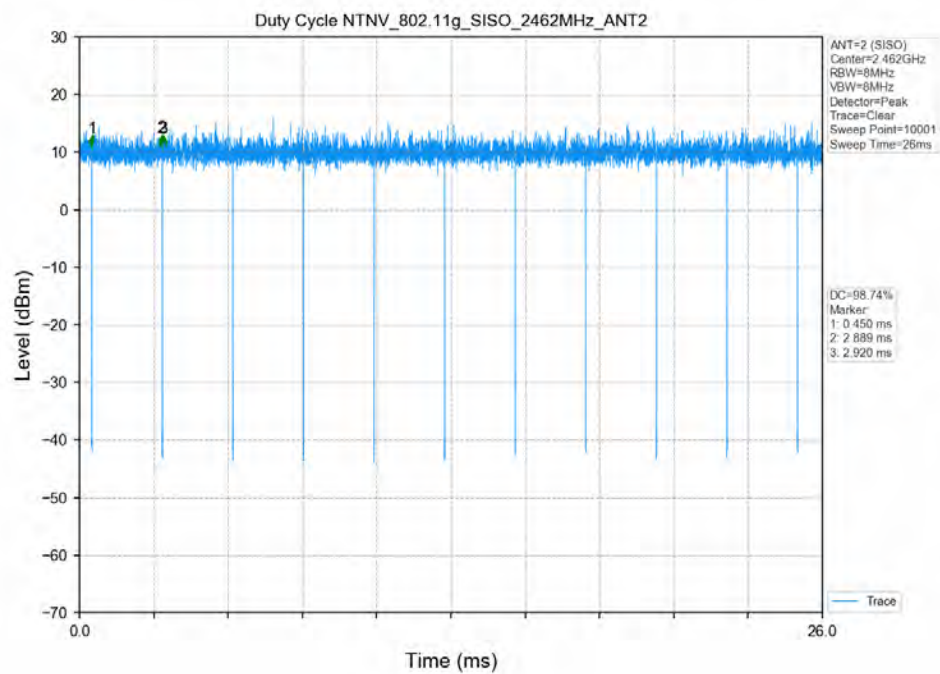
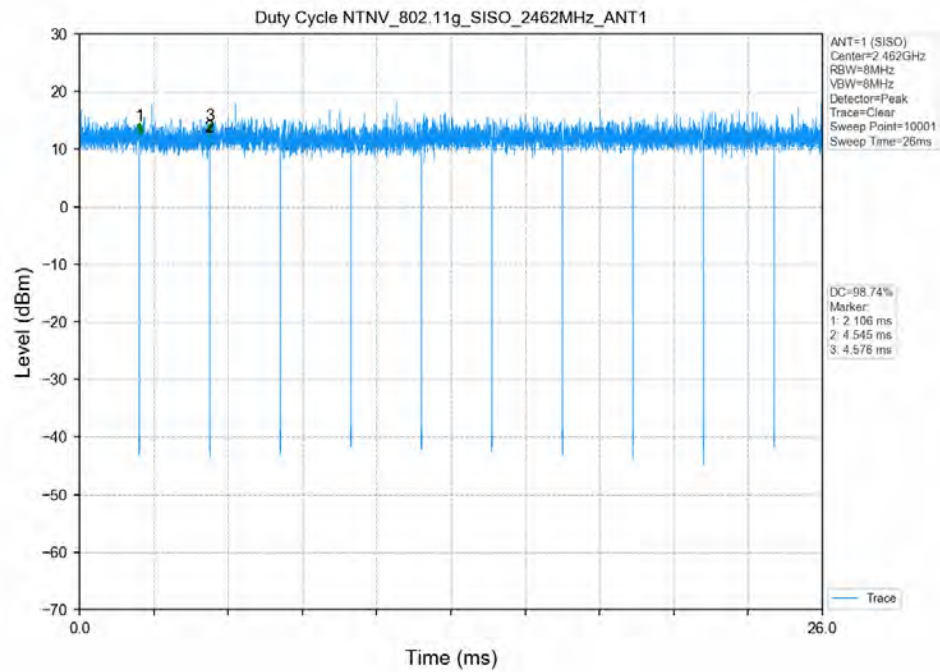


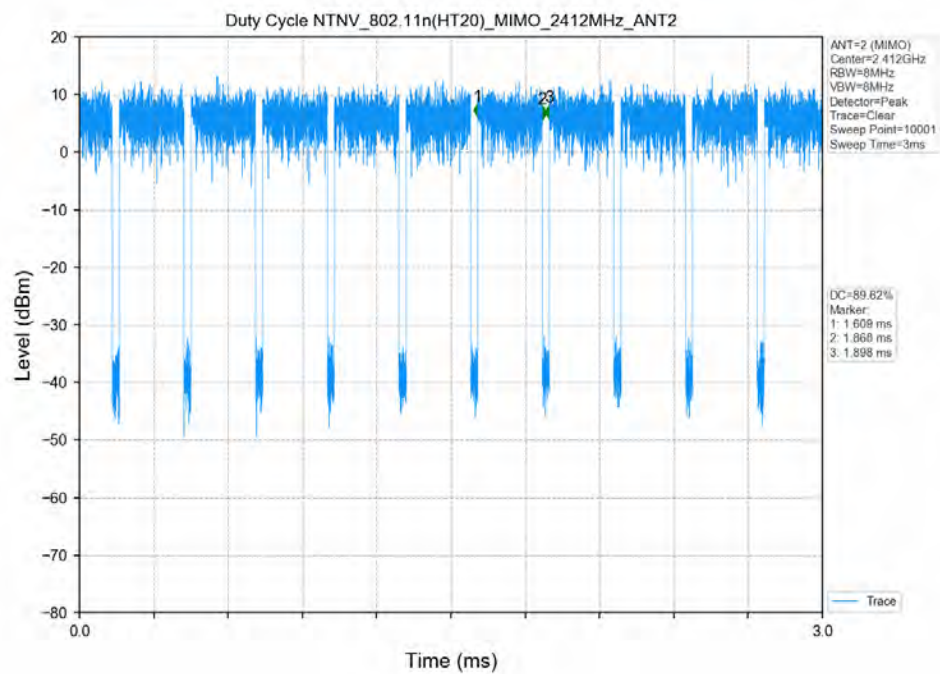
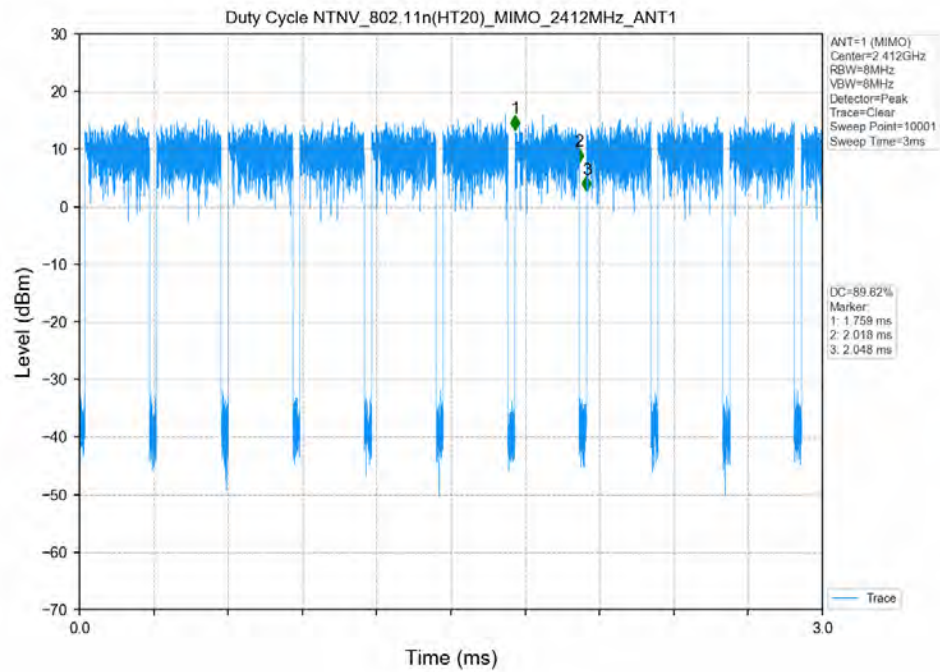


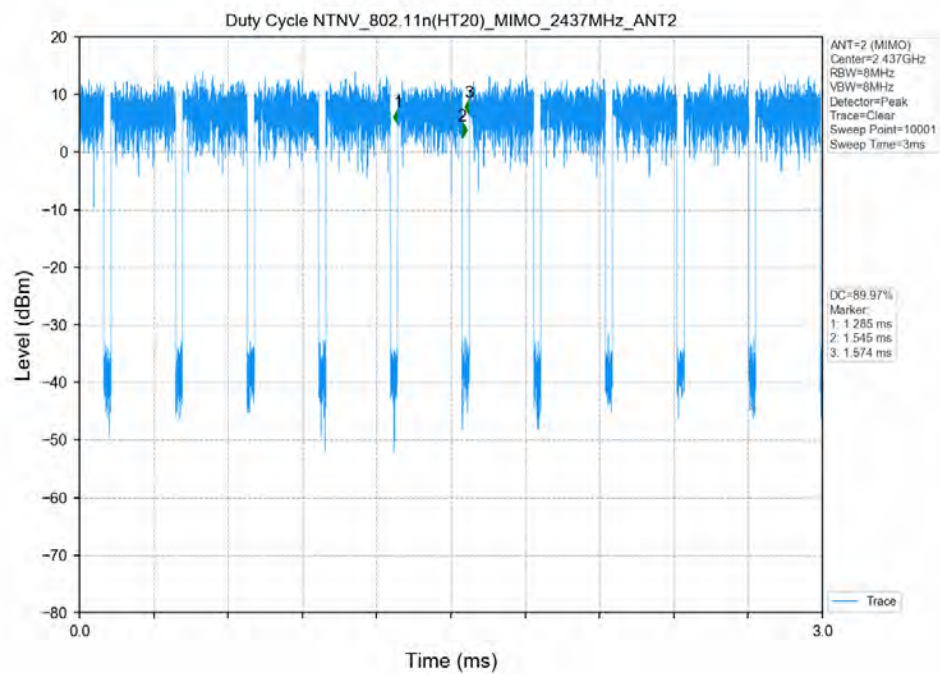
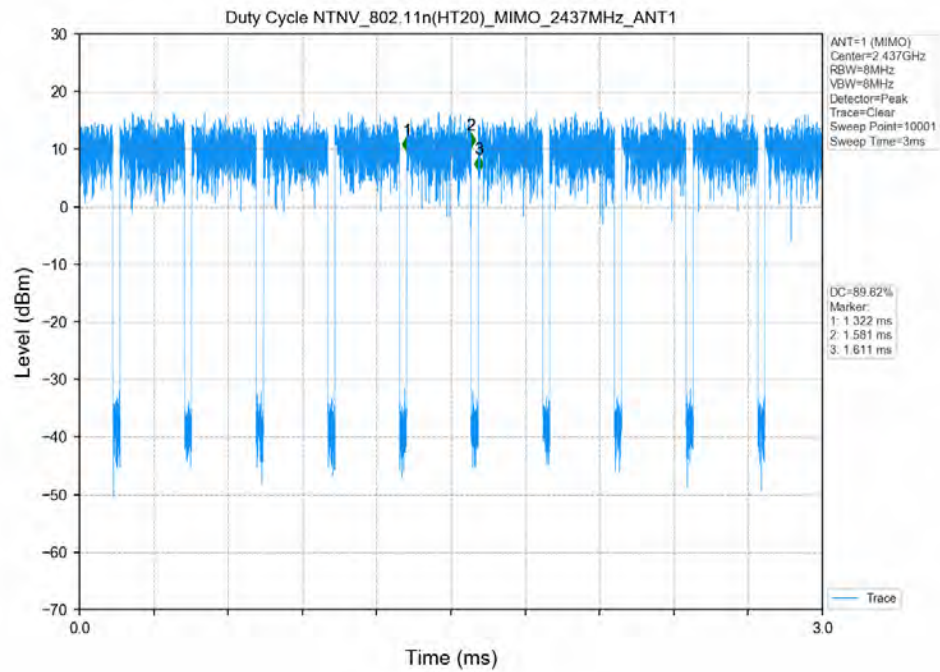


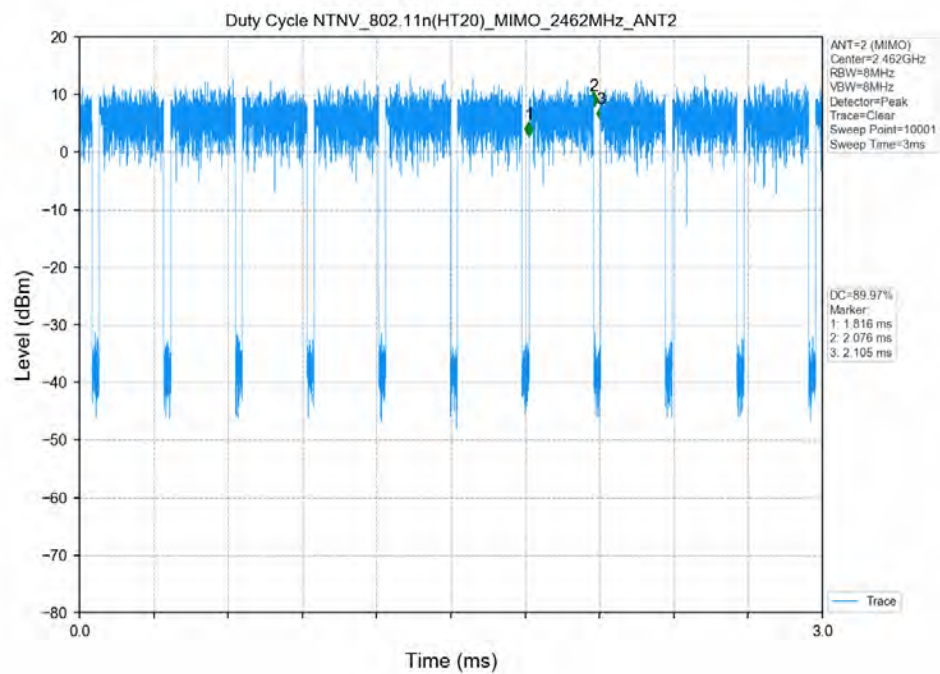
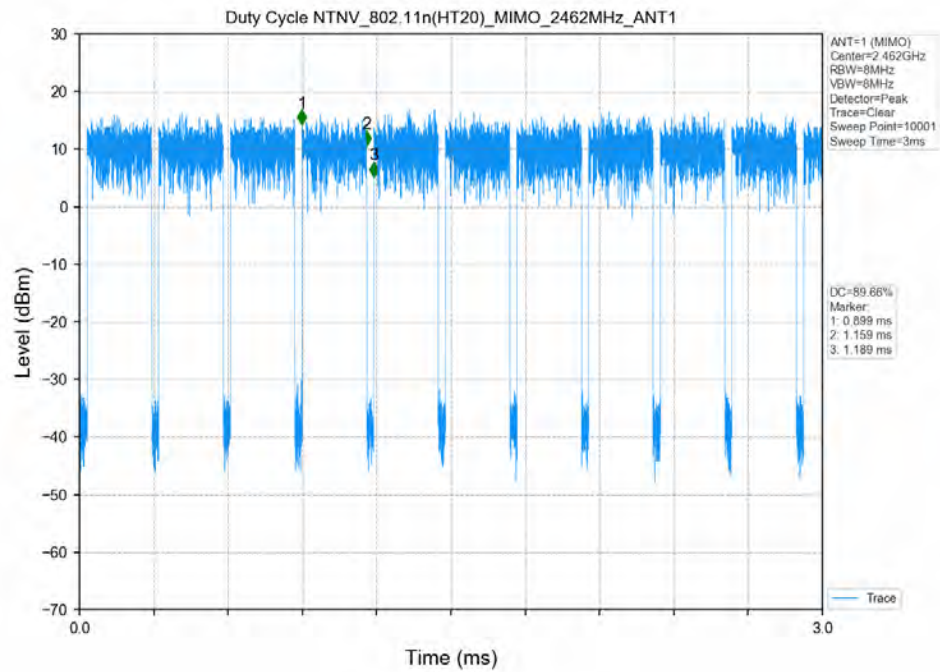












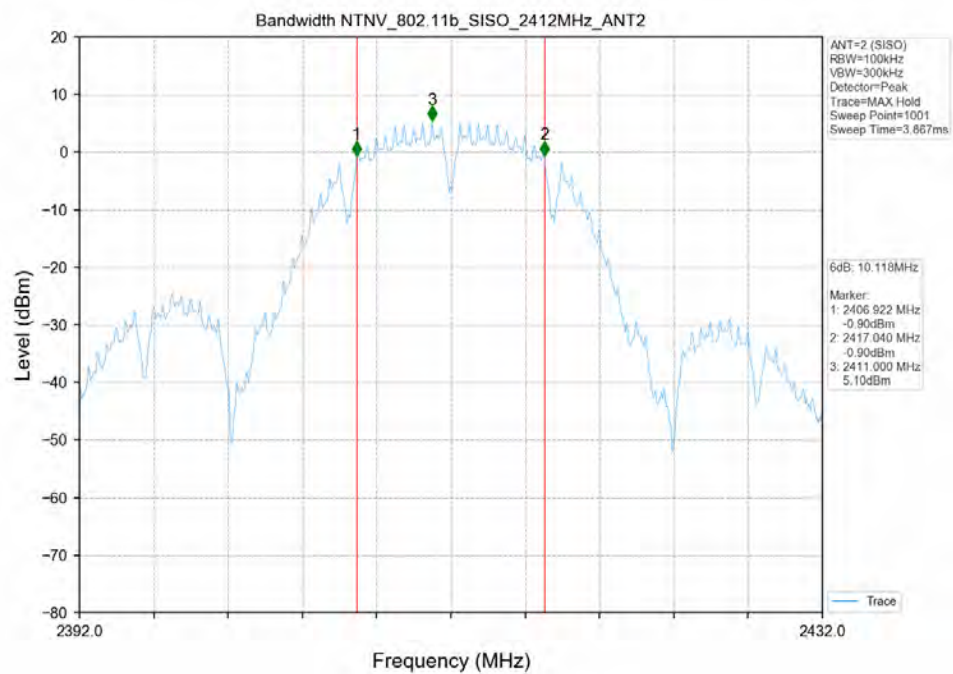
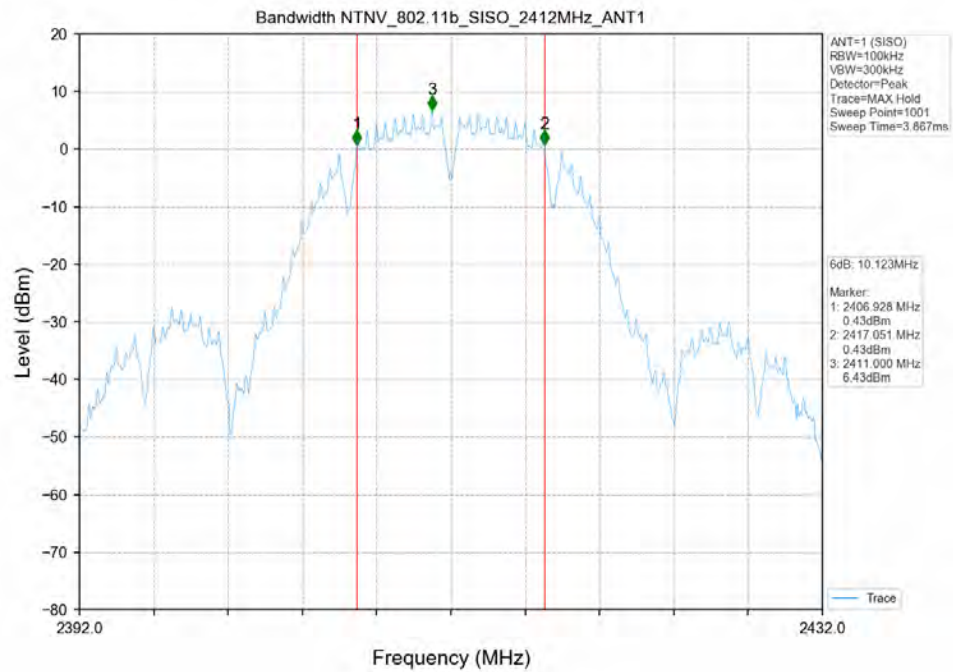
2. Bandwidth

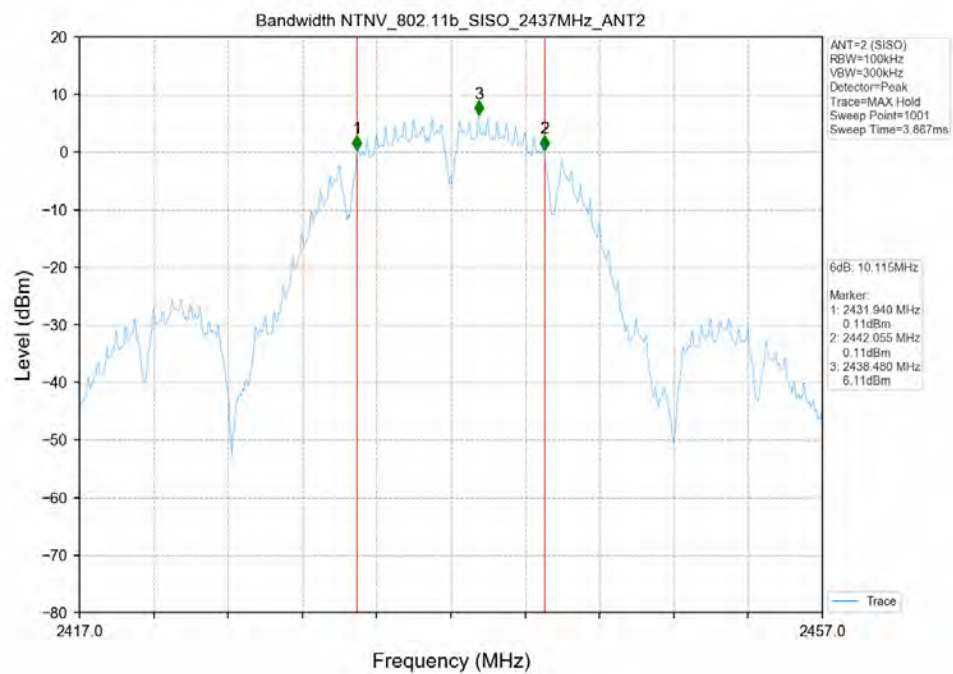
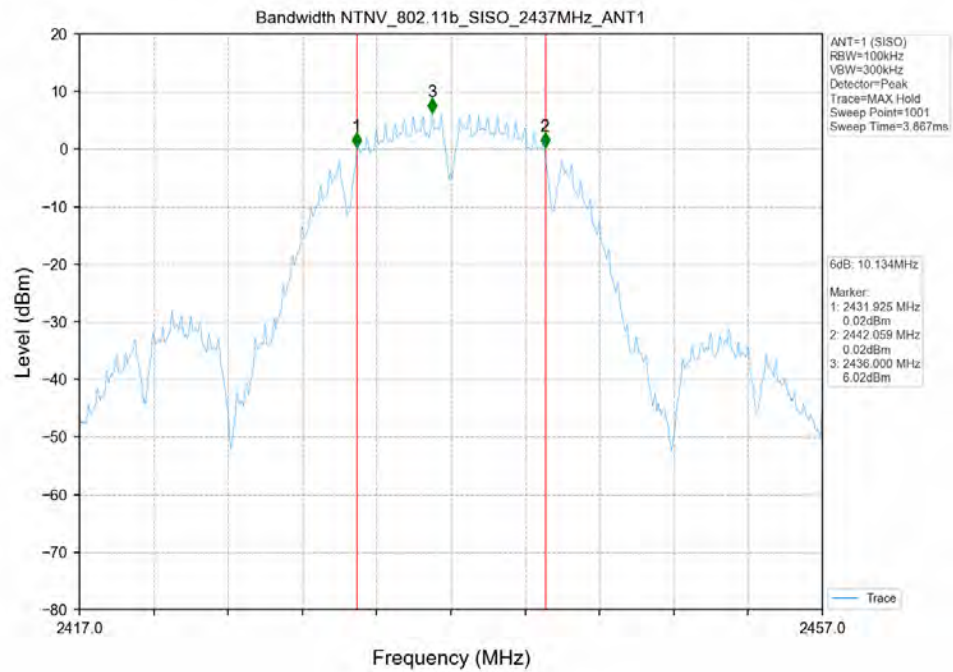
2.1 Test Result

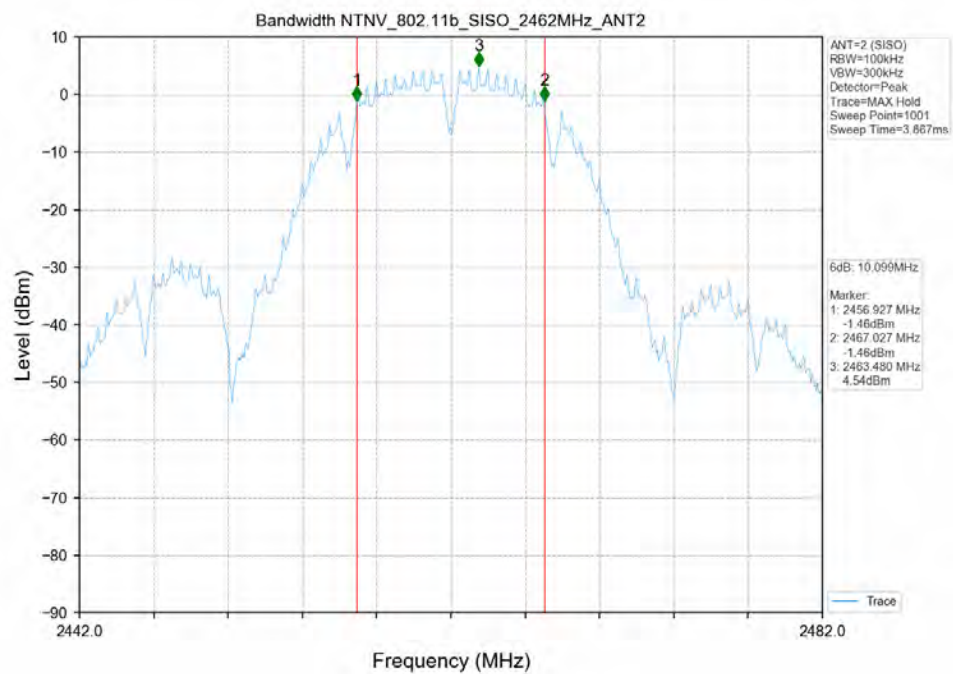
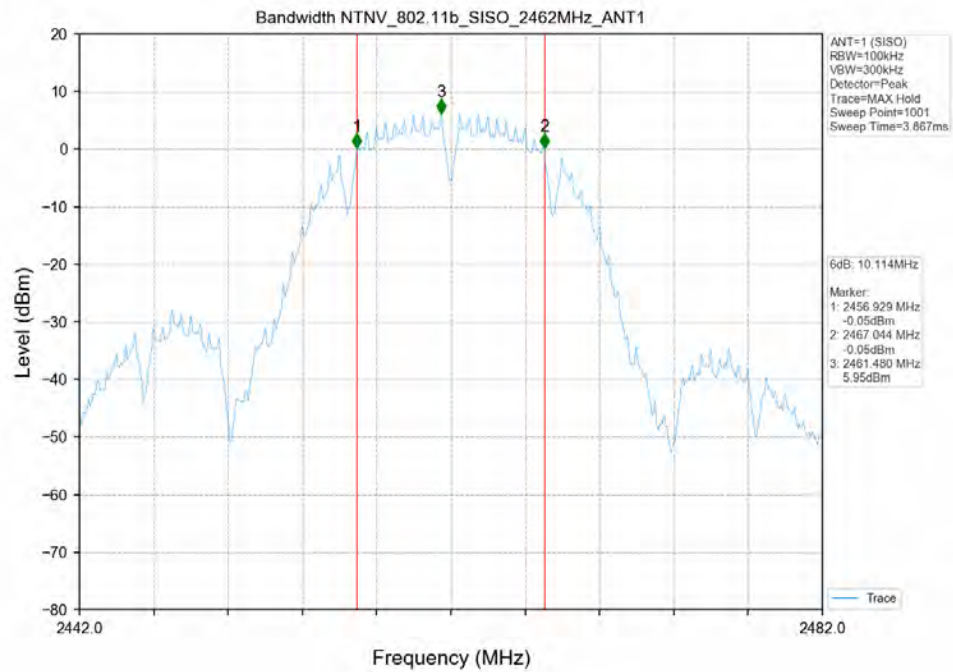
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	10.123	≥0.5	PASS
			2	10.118	≥0.5	PASS
	2437	SISO	1	10.134	≥0.5	PASS
			2	10.115	≥0.5	PASS
	2462	SISO	1	10.114	≥0.5	PASS
			2	10.099	≥0.5	PASS
802.11g	2412	SISO	1	16.364	≥0.5	PASS
			2	16.401	≥0.5	PASS
	2437	SISO	1	16.409	≥0.5	PASS
			2	16.390	≥0.5	PASS
	2462	SISO	1	16.391	≥0.5	PASS
			2	16.376	≥0.5	PASS
802.11n(HT20)	2412	MIMO	1	17.704	≥0.5	PASS
			2	17.734	≥0.5	PASS
	2437	MIMO	1	17.741	≥0.5	PASS
			2	17.712	≥0.5	PASS
	2462	MIMO	1	17.702	≥0.5	PASS
			2	17.735	≥0.5	PASS

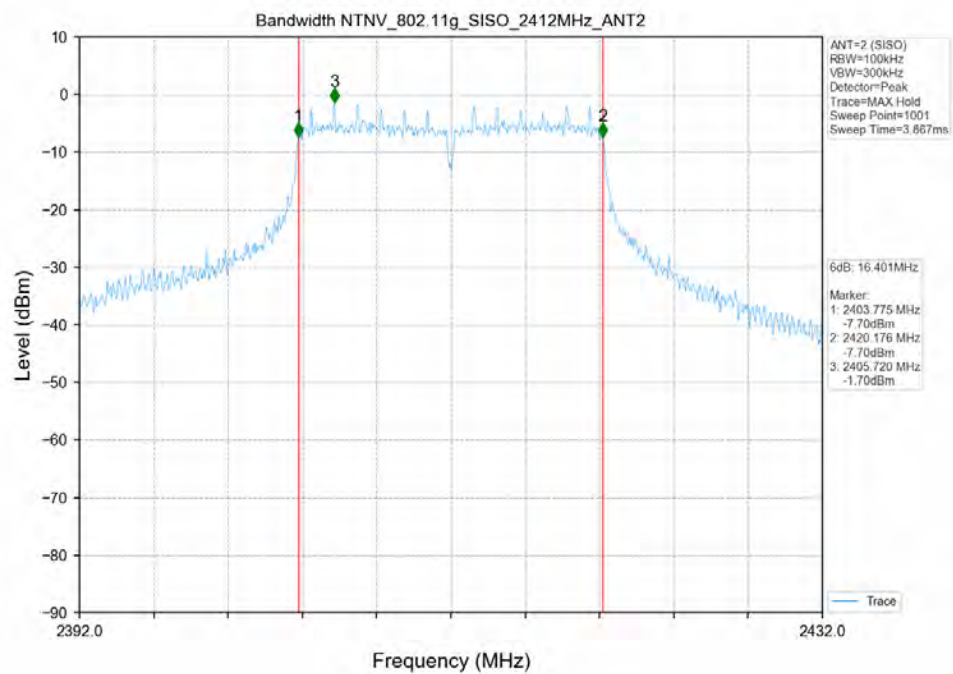
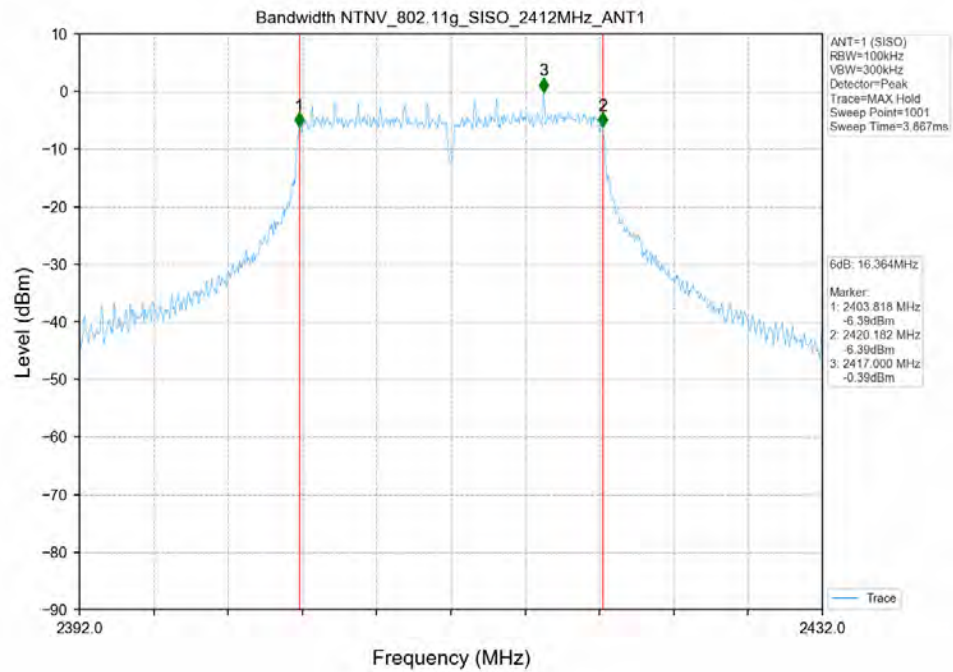
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	14.111	Only for Report Use
			2	14.132	Only for Report Use
	2437	SISO	1	14.019	Only for Report Use
			2	14.037	Only for Report Use
	2462	SISO	1	13.999	Only for Report Use
			2	13.996	Only for Report Use
802.11g	2412	SISO	1	17.085	Only for Report Use
			2	17.380	Only for Report Use
	2437	SISO	1	17.087	Only for Report Use
			2	17.258	Only for Report Use
	2462	SISO	1	17.085	Only for Report Use
			2	16.998	Only for Report Use
802.11n(HT20)	2412	MIMO	1	17.948	Only for Report Use
			2	18.006	Only for Report Use
	2437	MIMO	1	18.008	Only for Report Use
			2	17.993	Only for Report Use
	2462	MIMO	1	18.006	Only for Report Use
			2	17.971	Only for Report Use

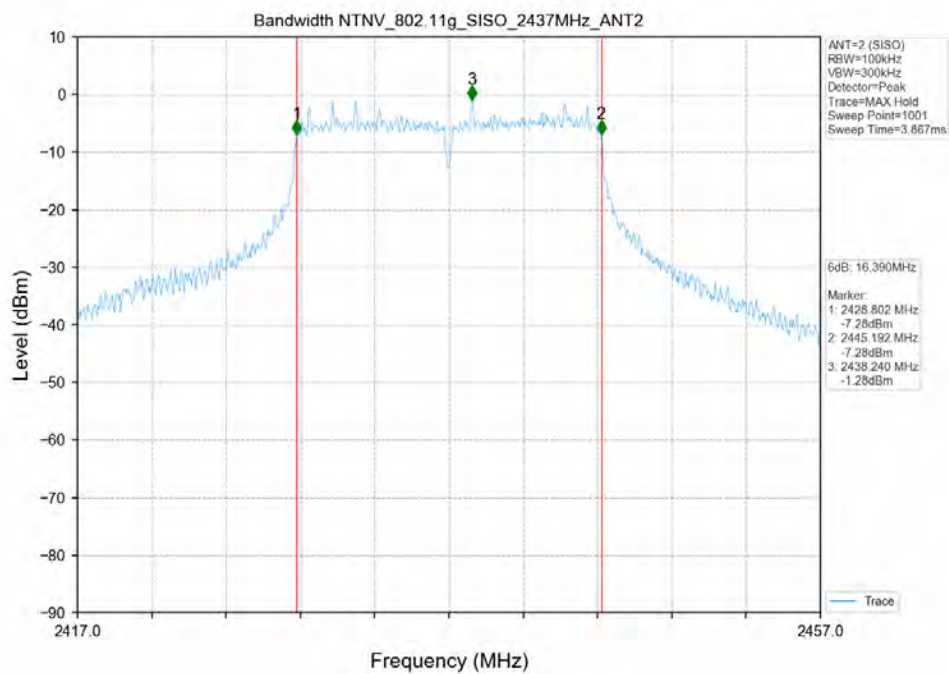
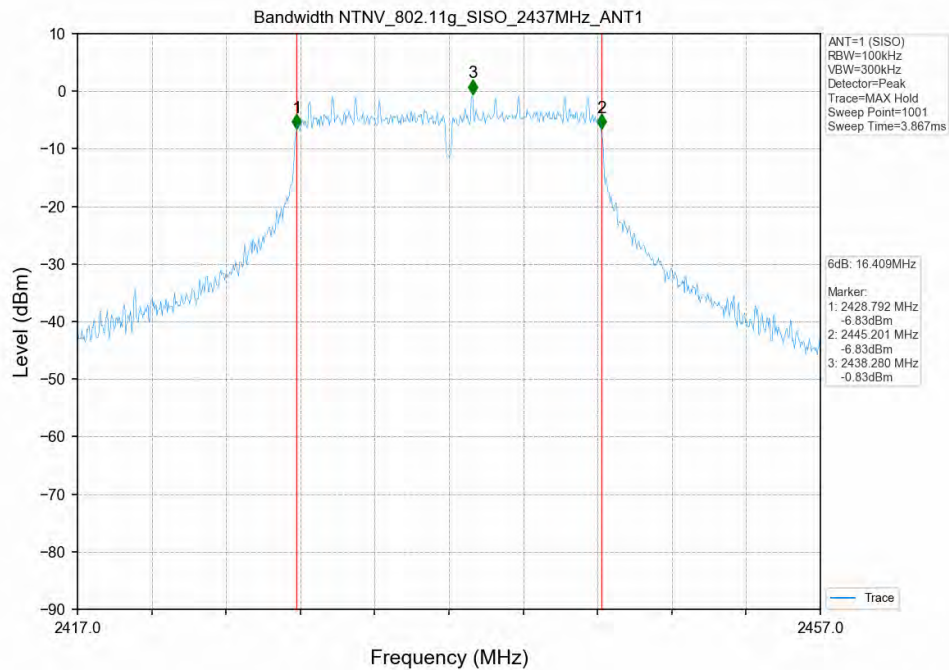
2.2 Test Graph - 6dB Bandwidth

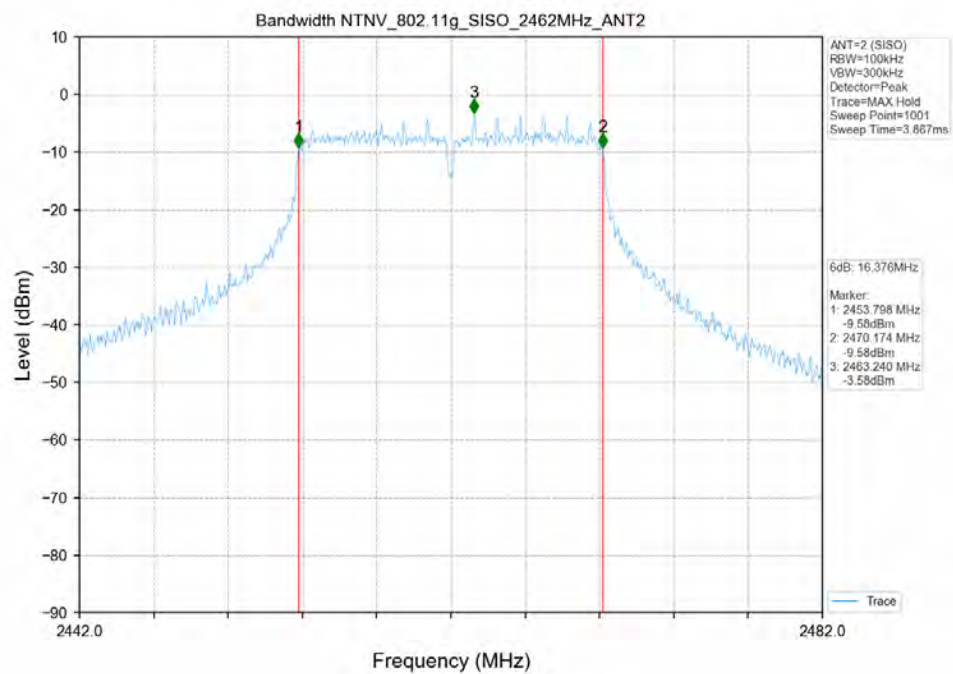
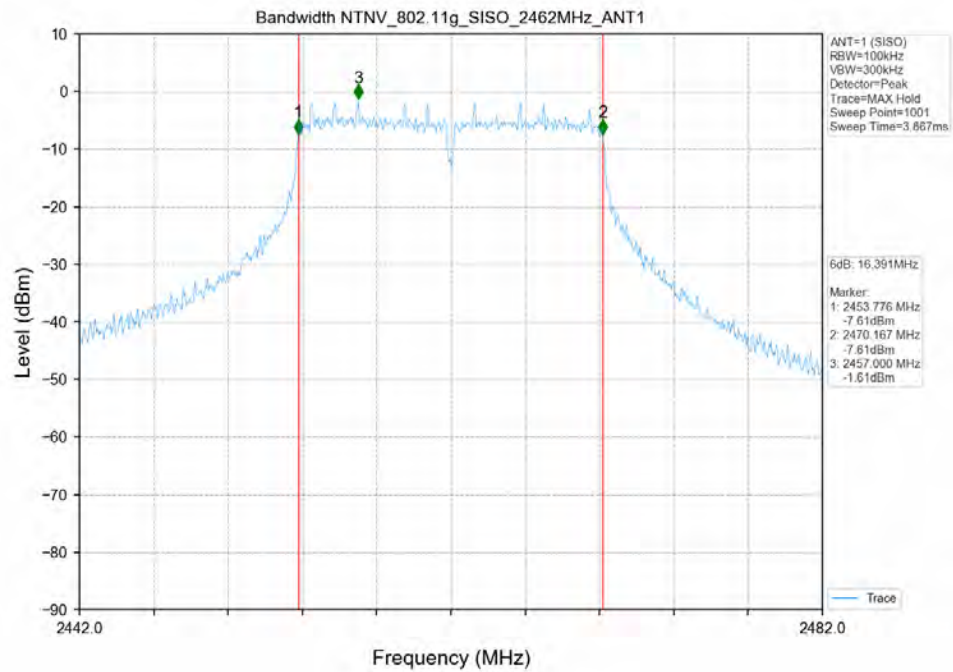


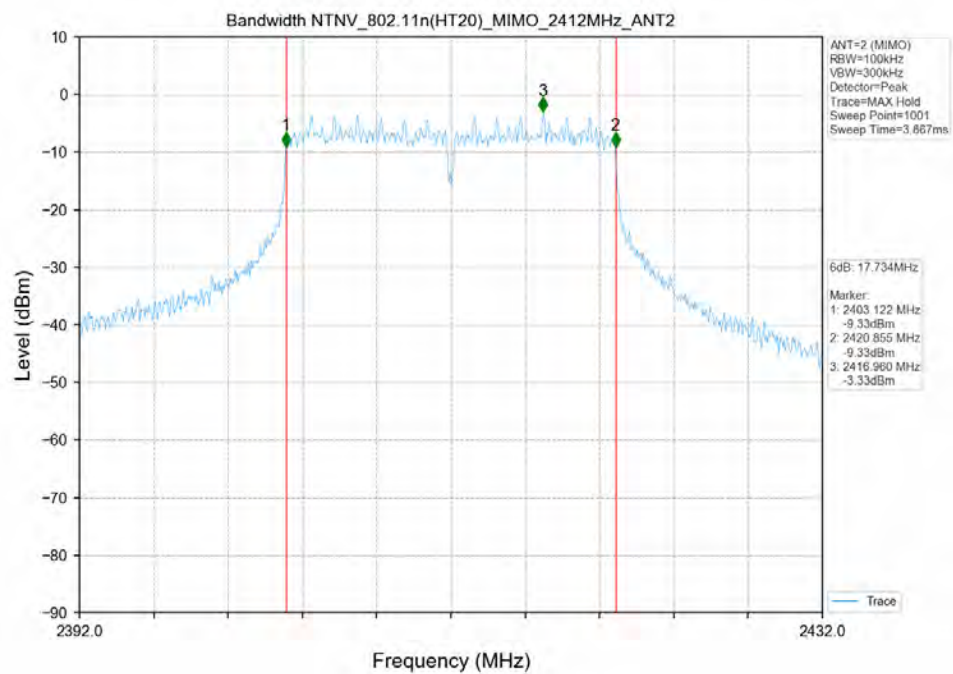
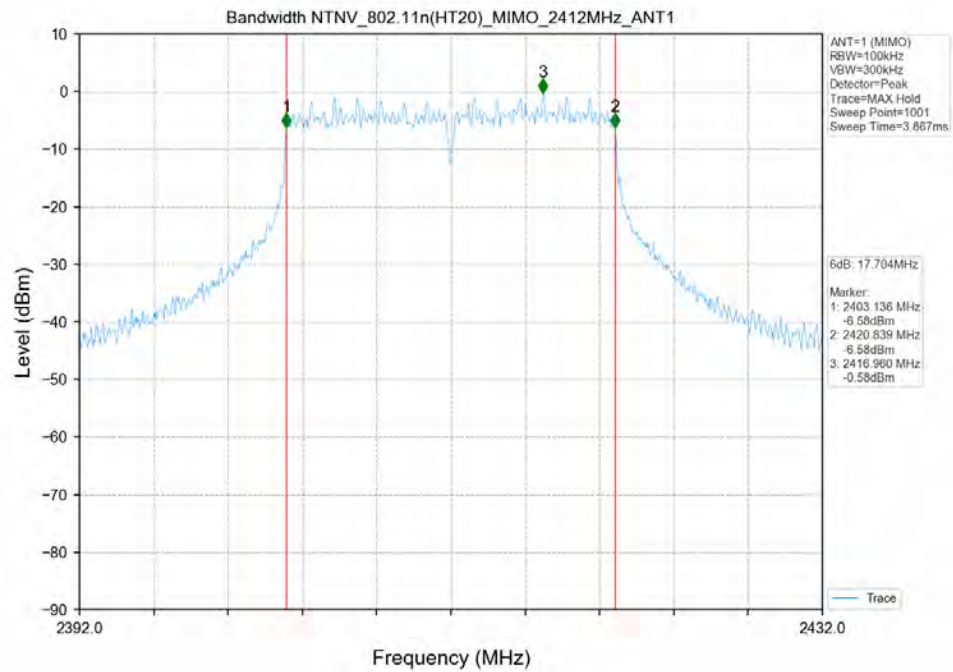


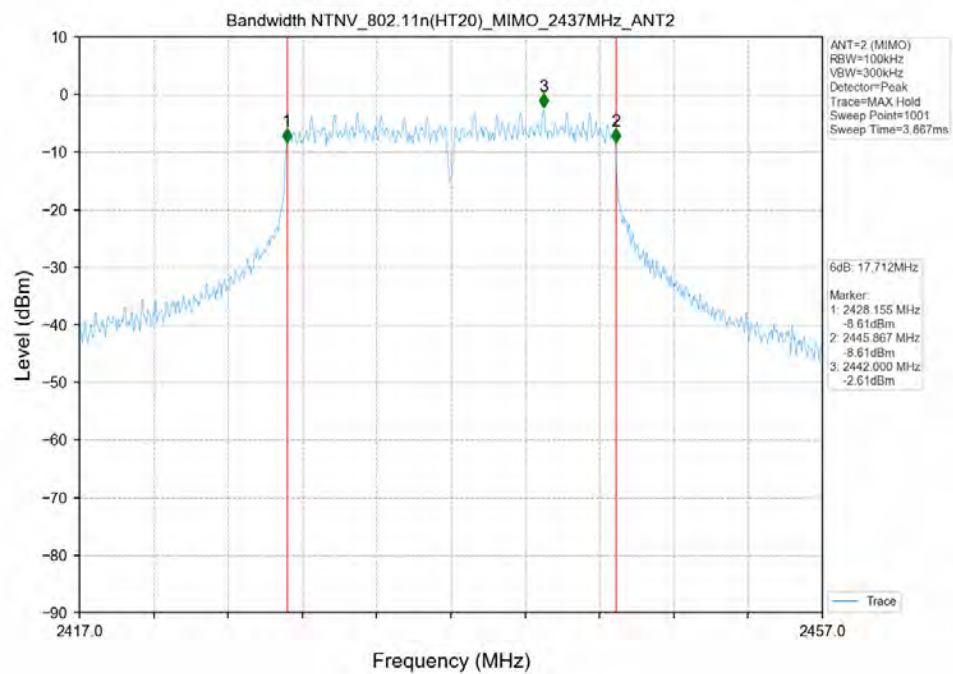
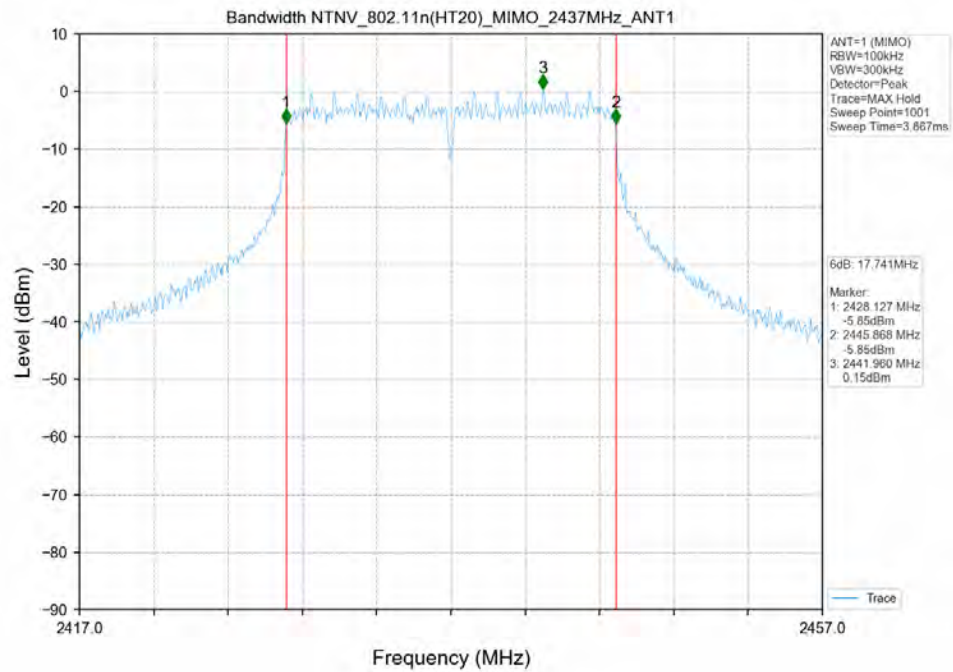


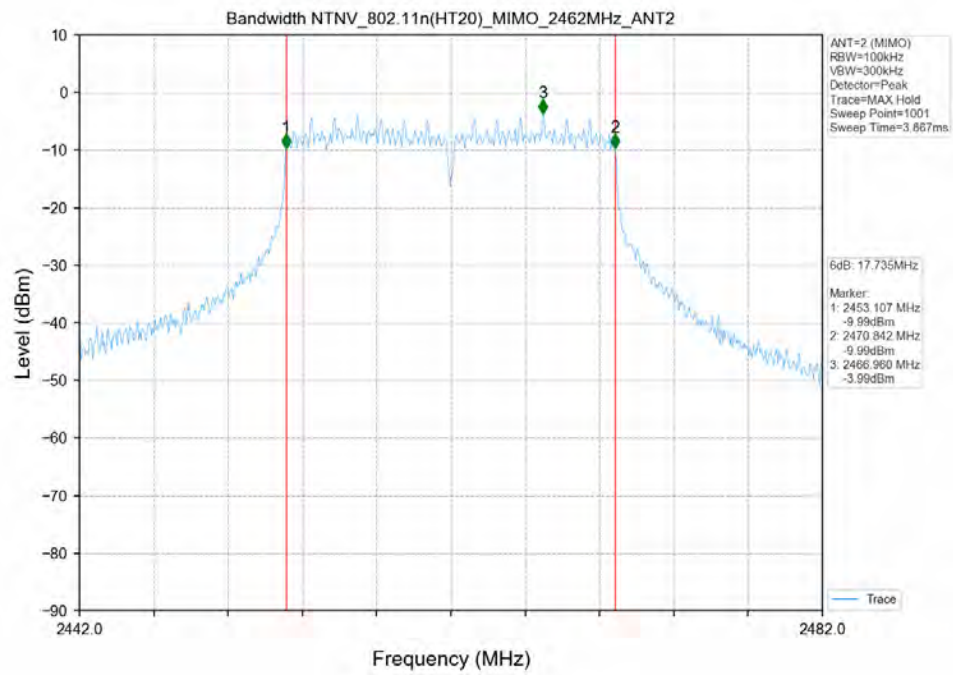
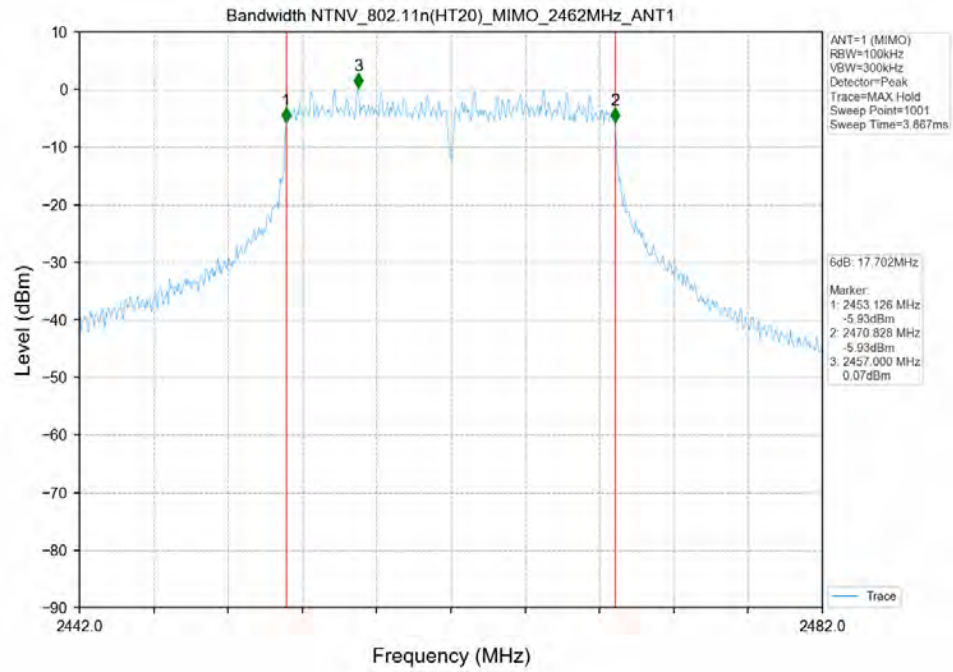




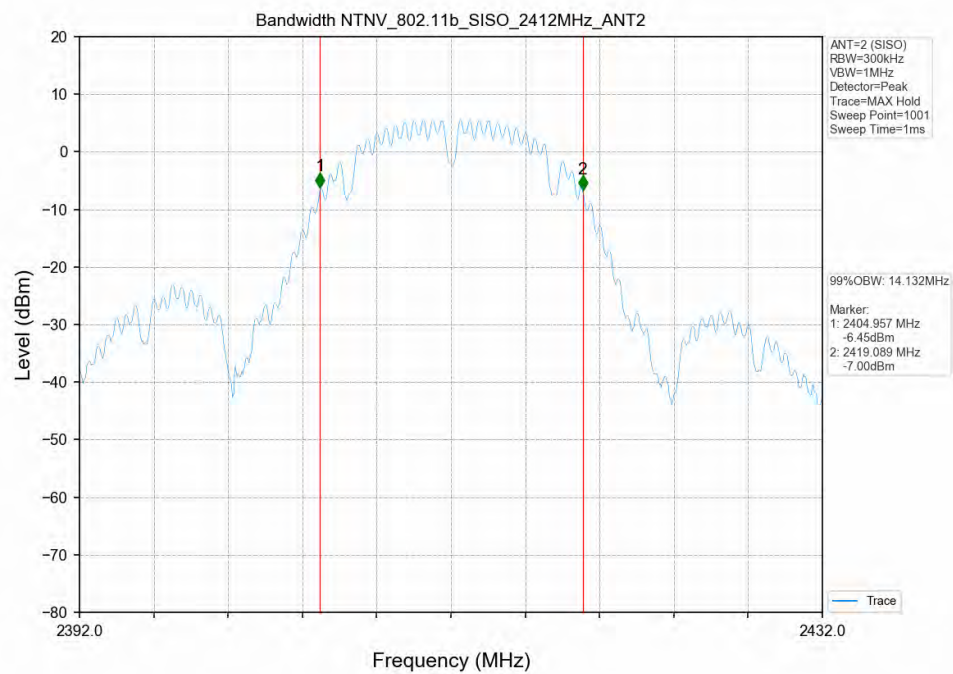
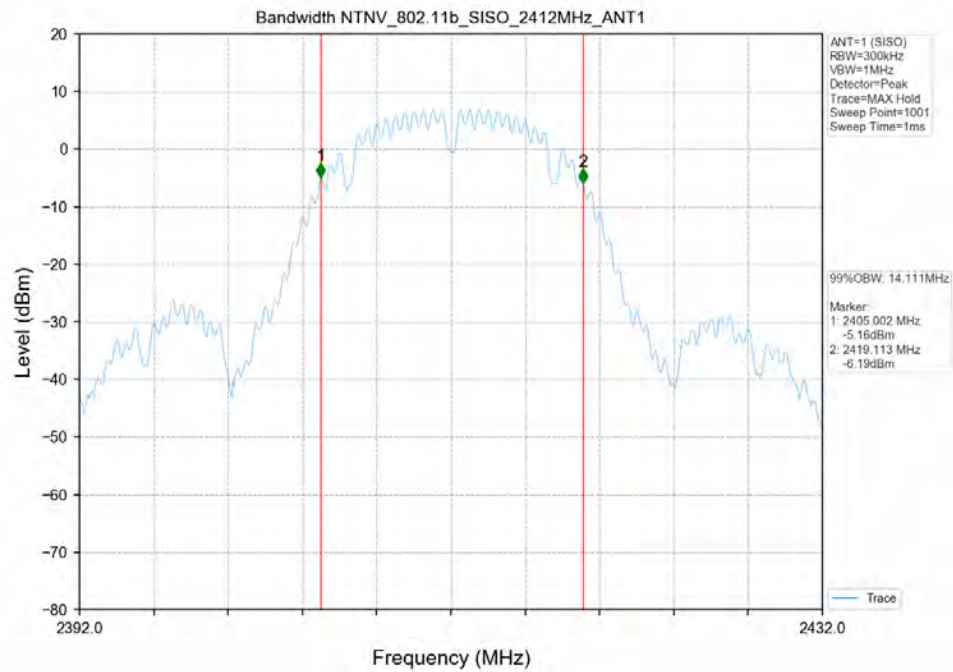


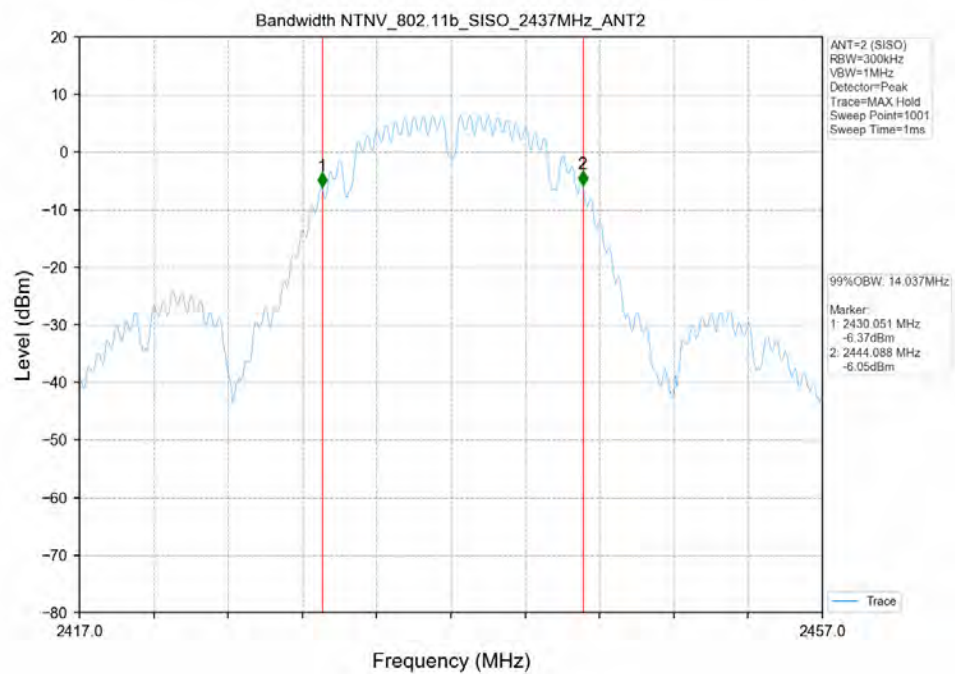
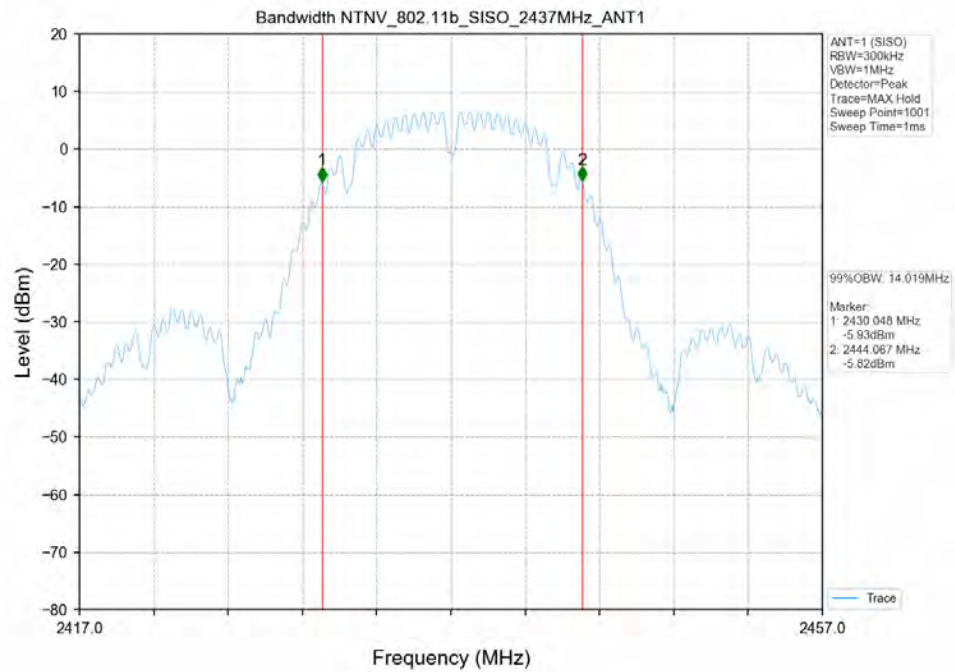


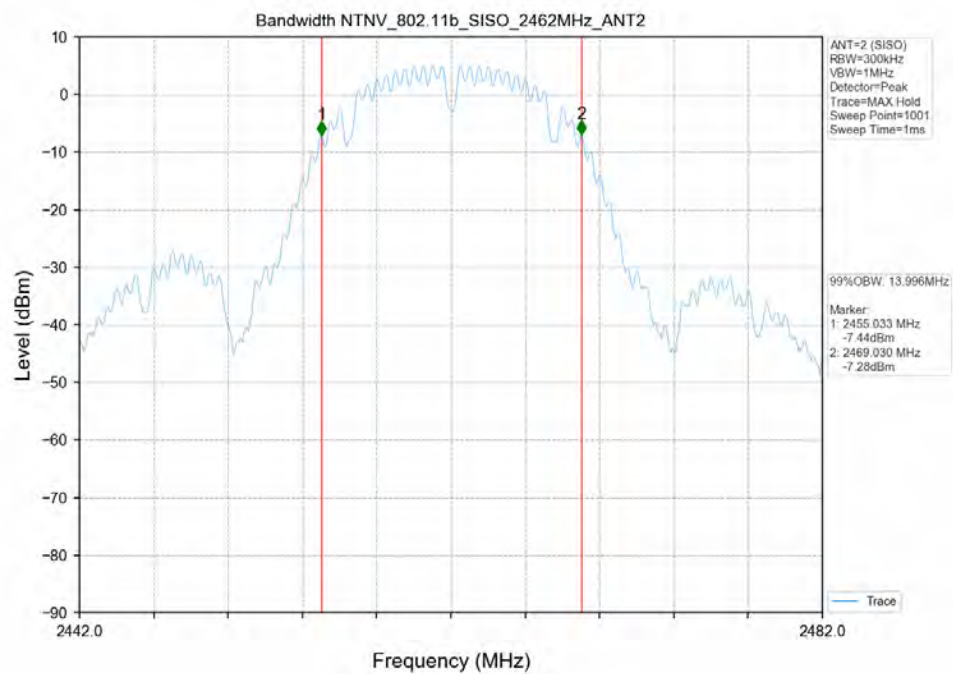
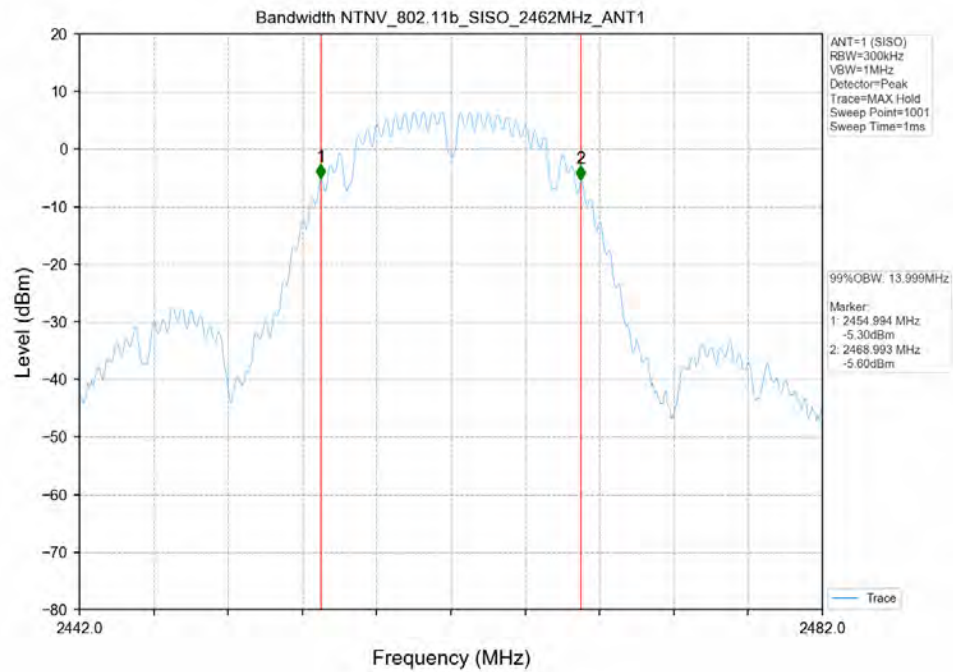


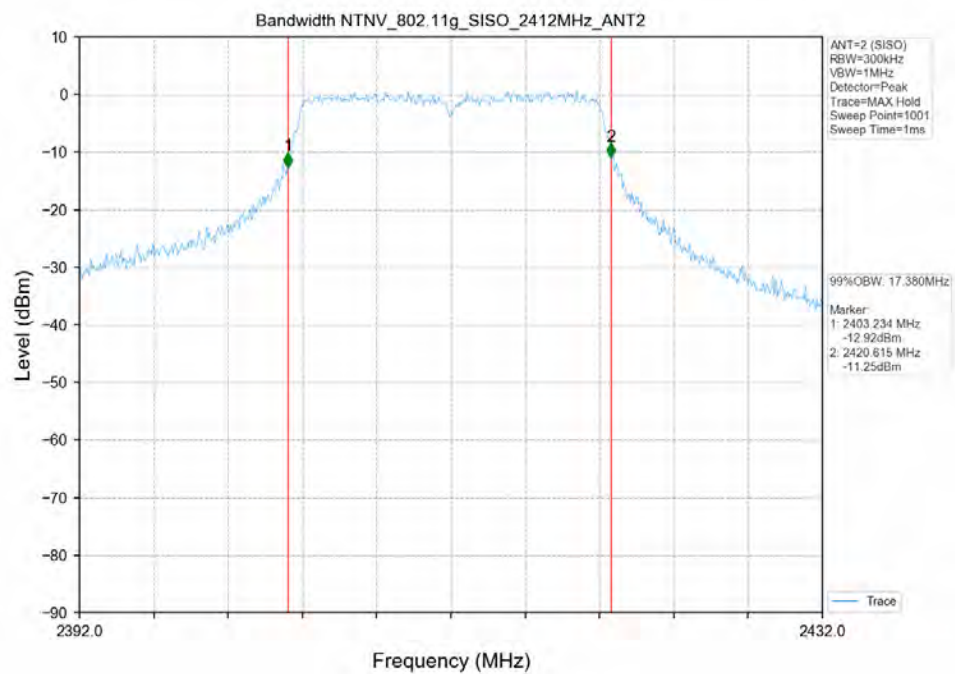
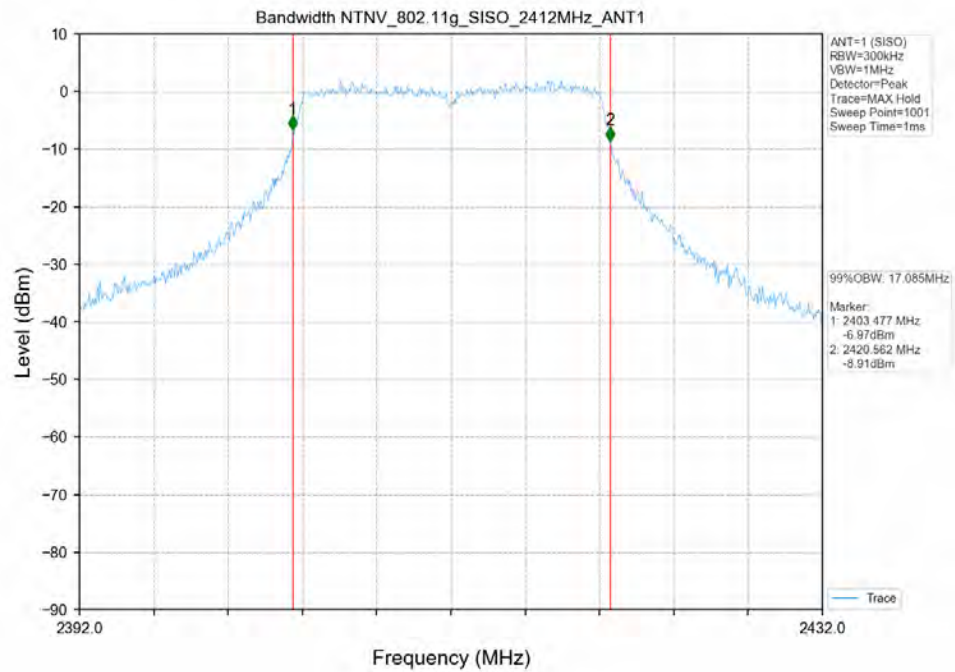


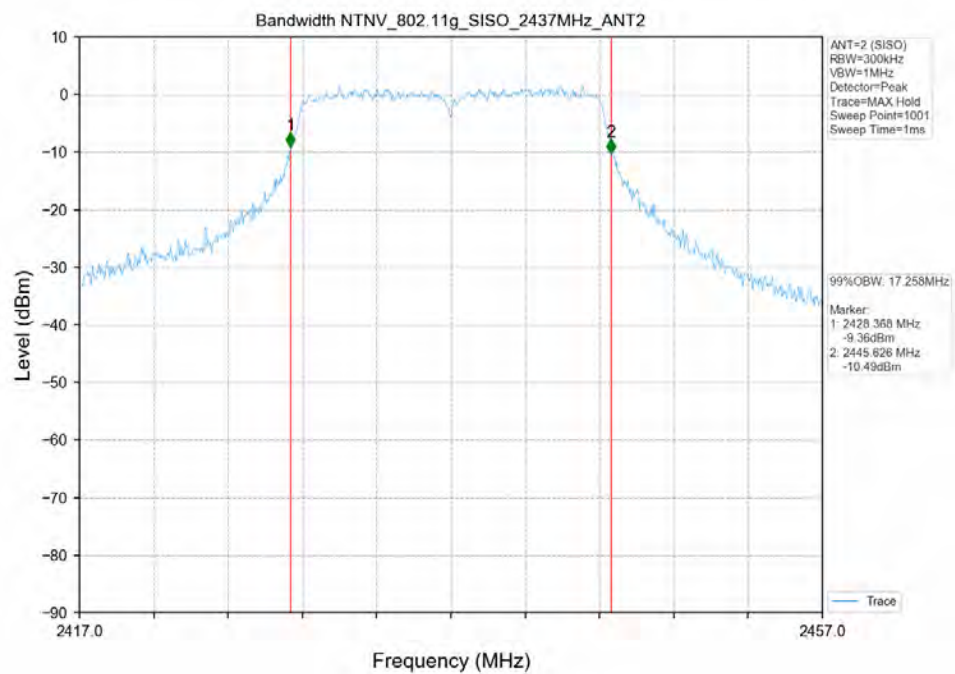
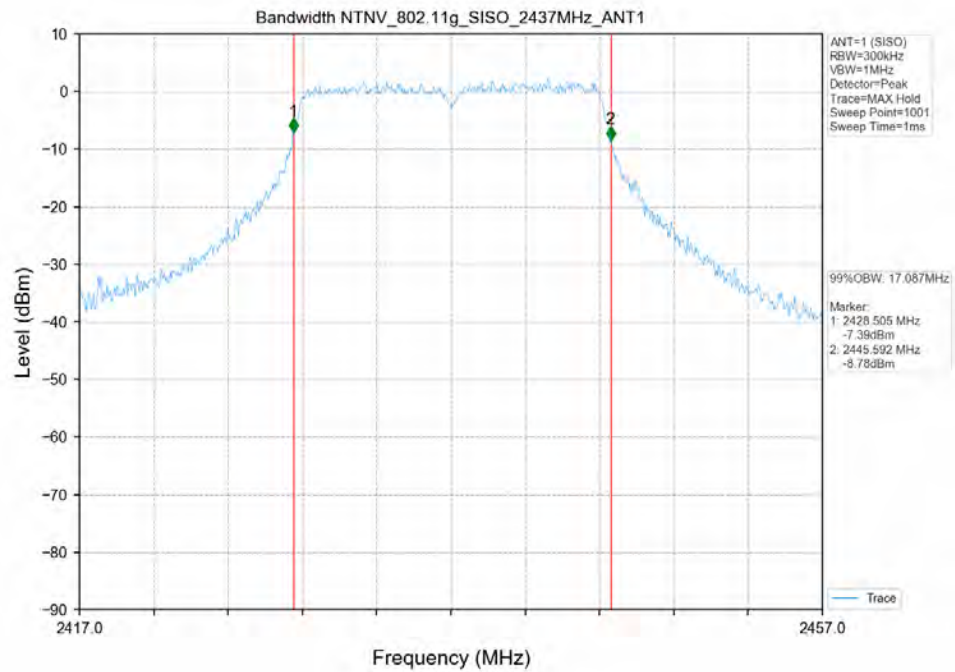
2.3 Test Graph - 99% Occupied Bandwidth

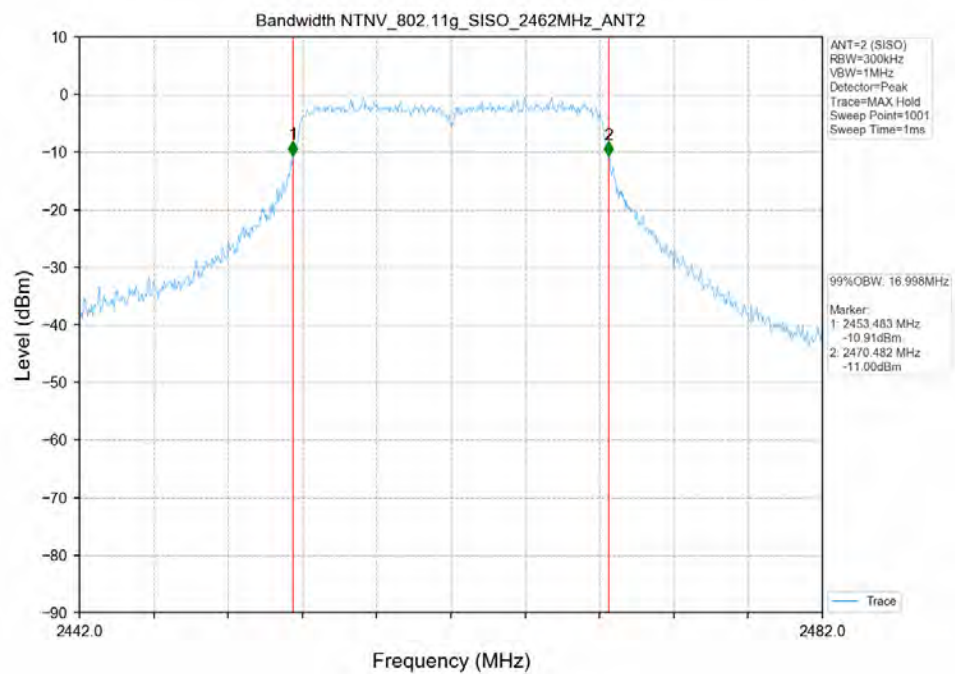
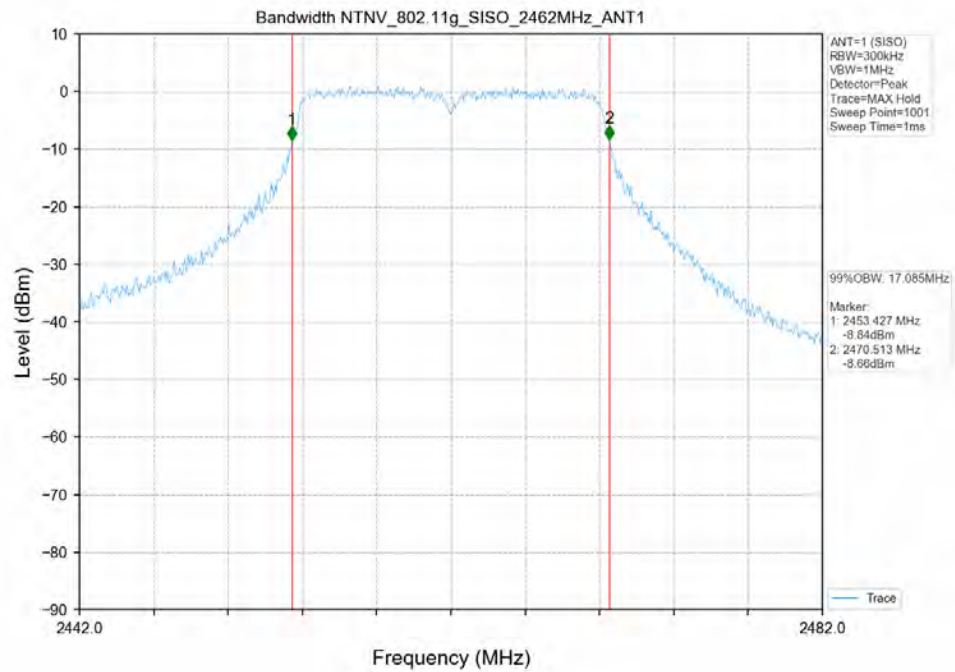


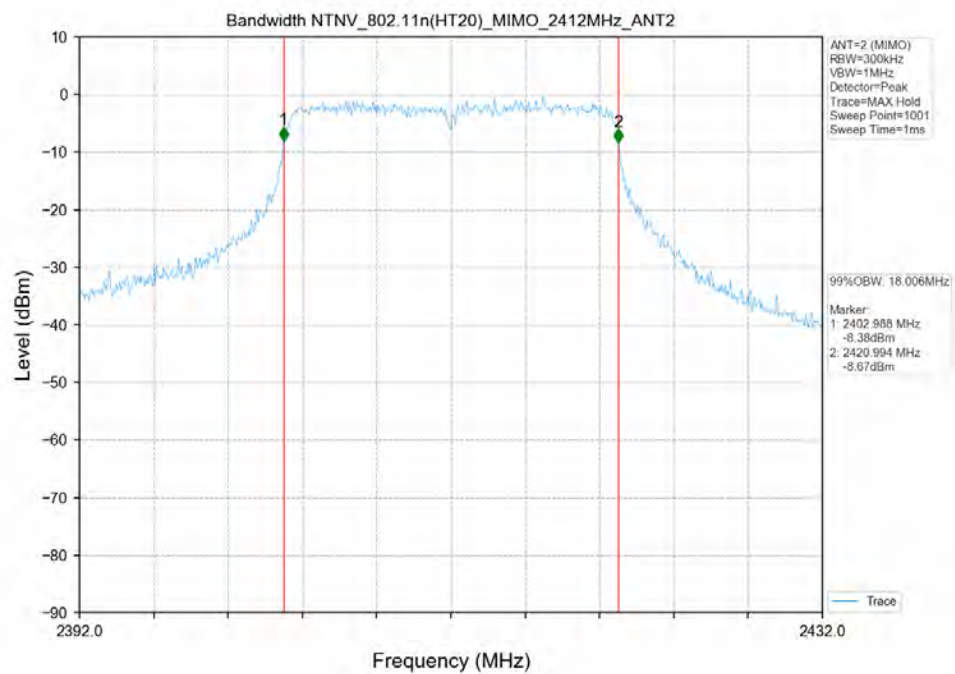
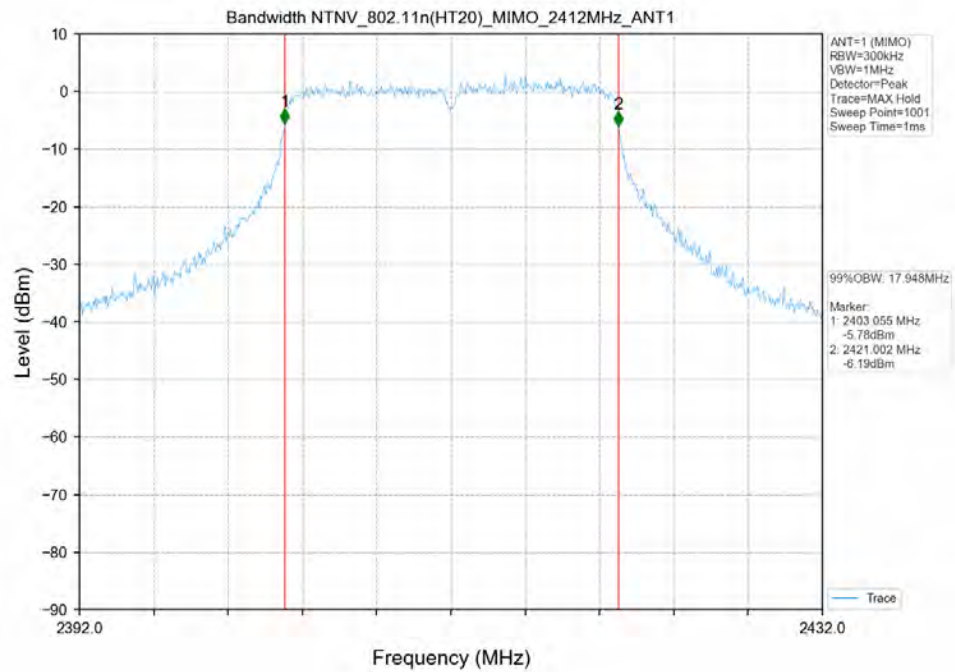


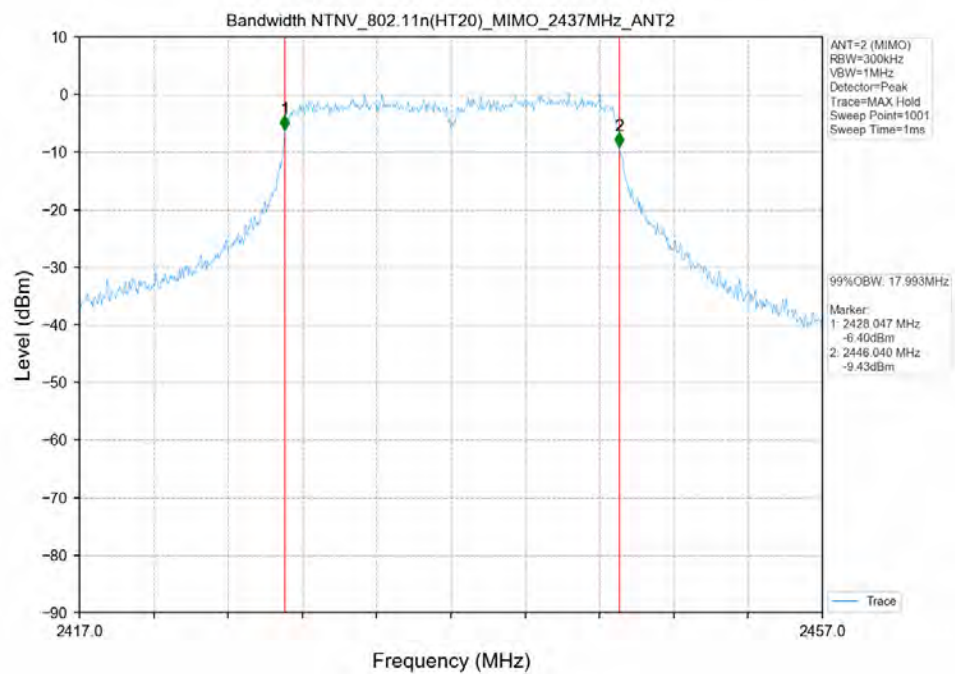
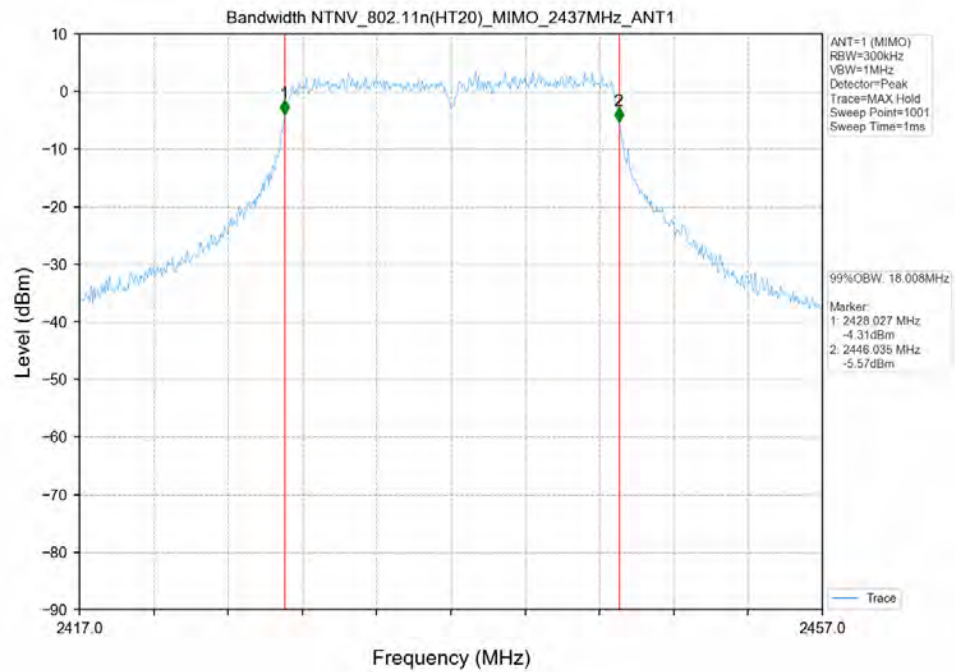


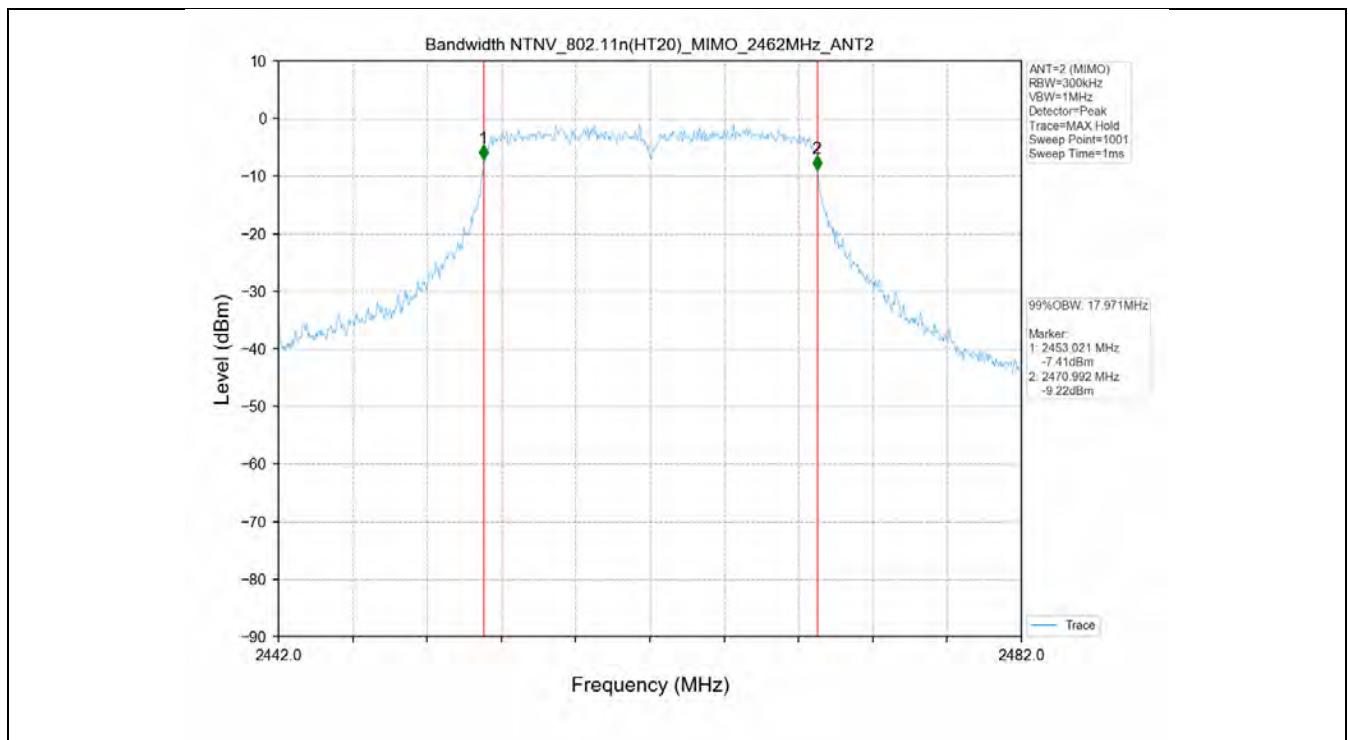
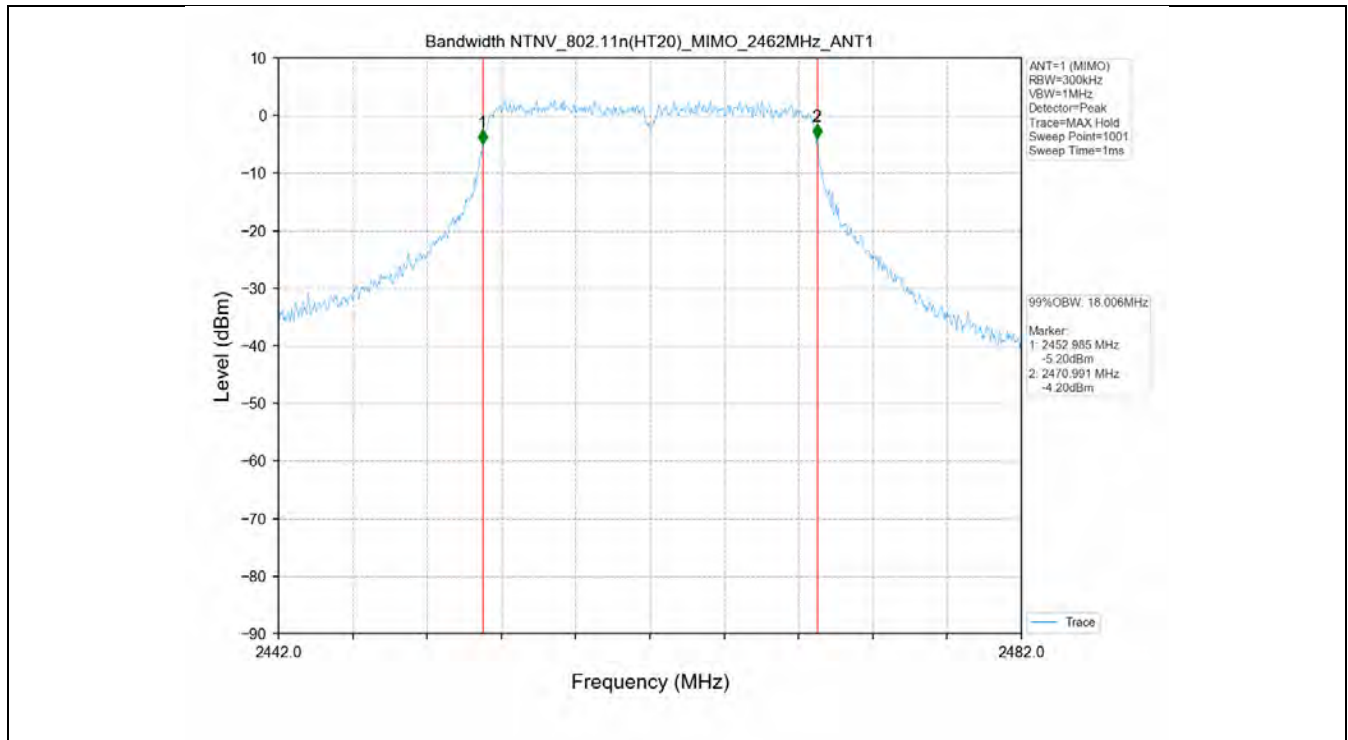










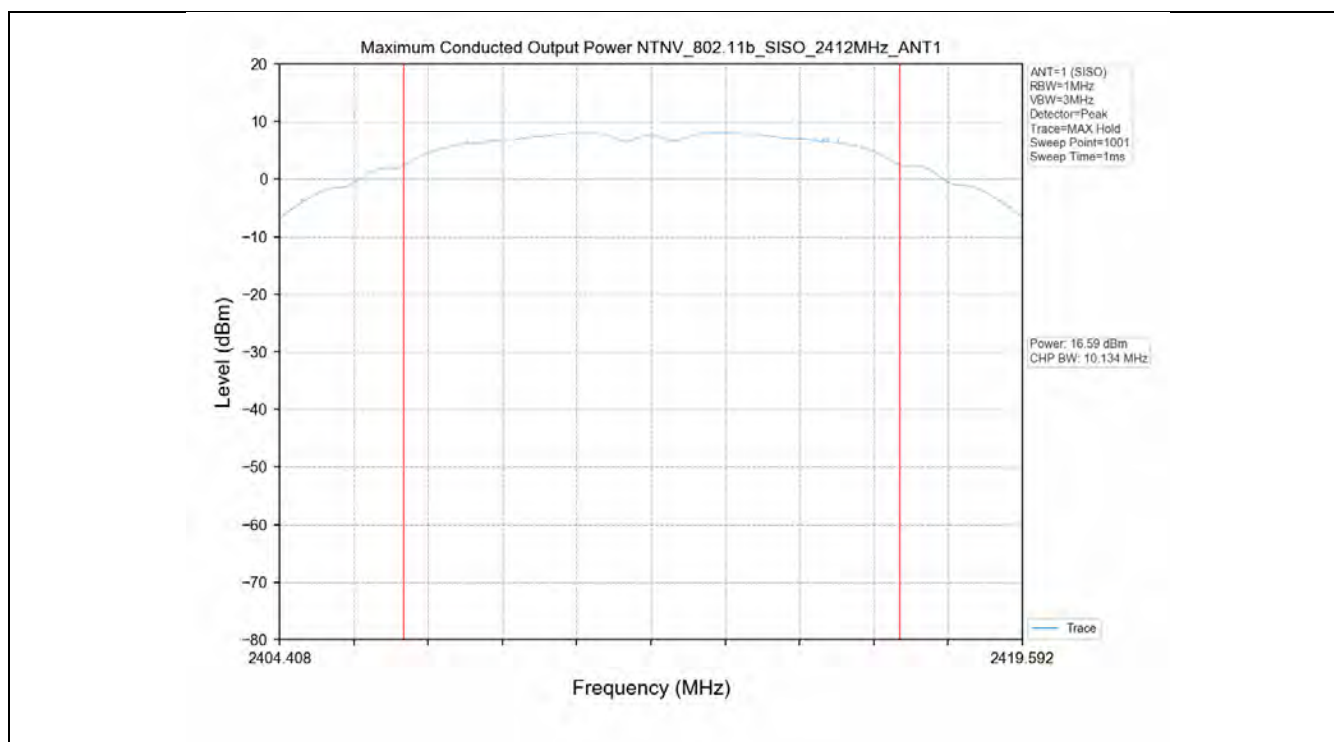


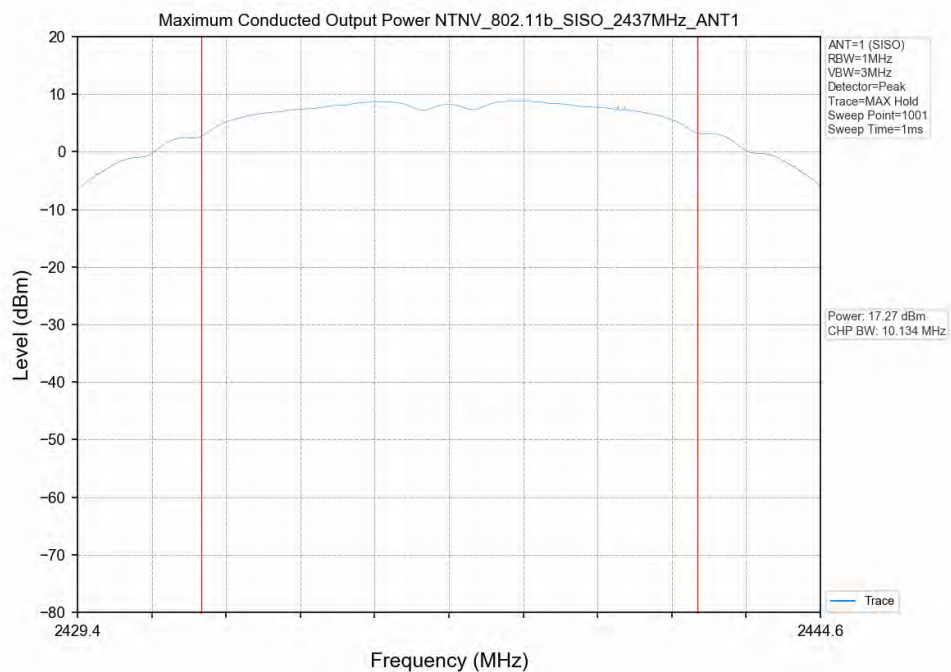
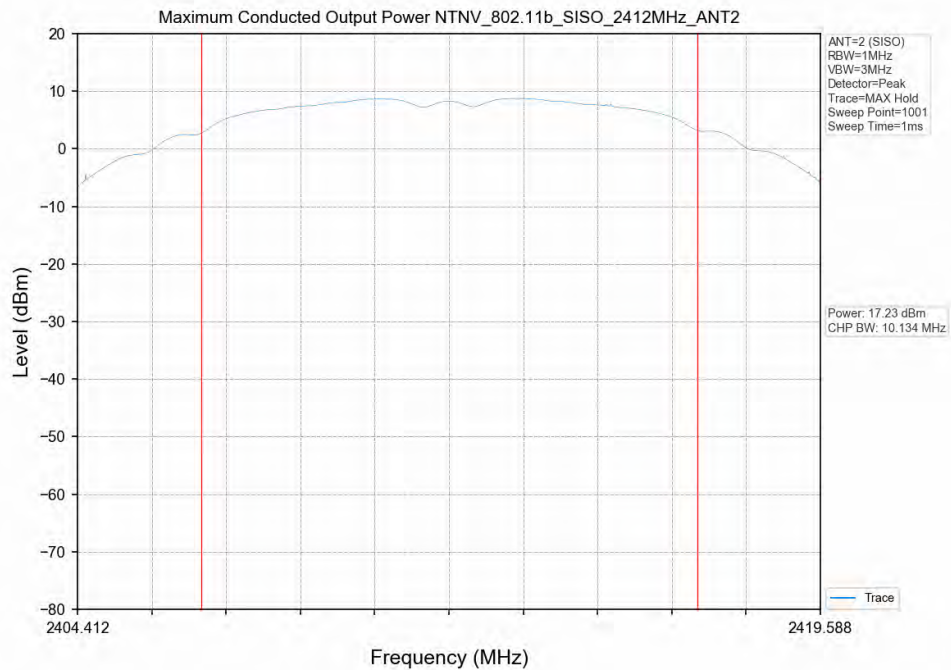
3. Maximum Conducted Output Power

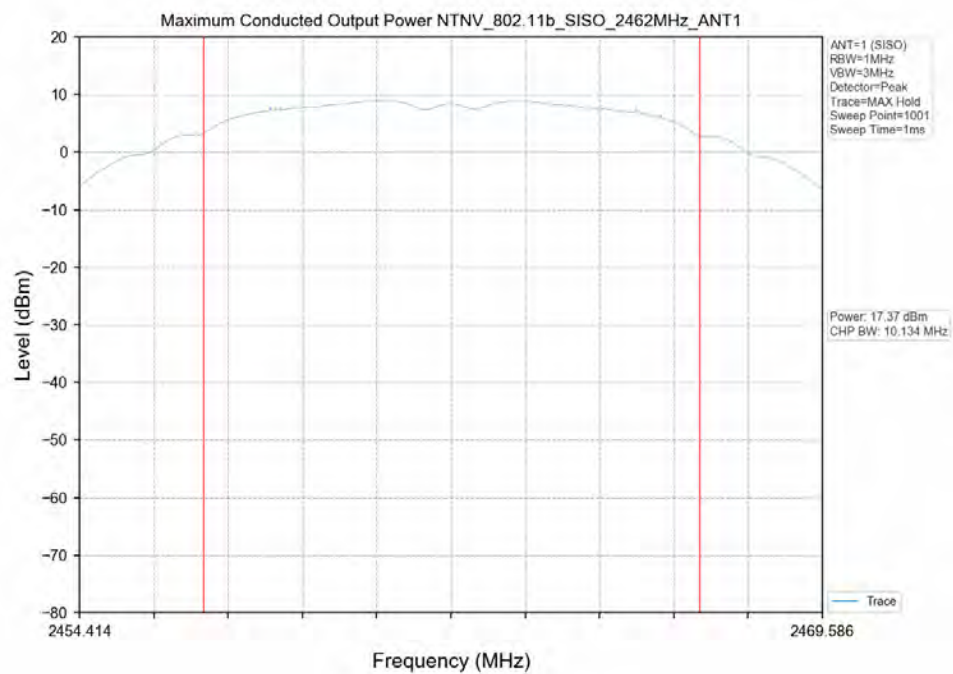
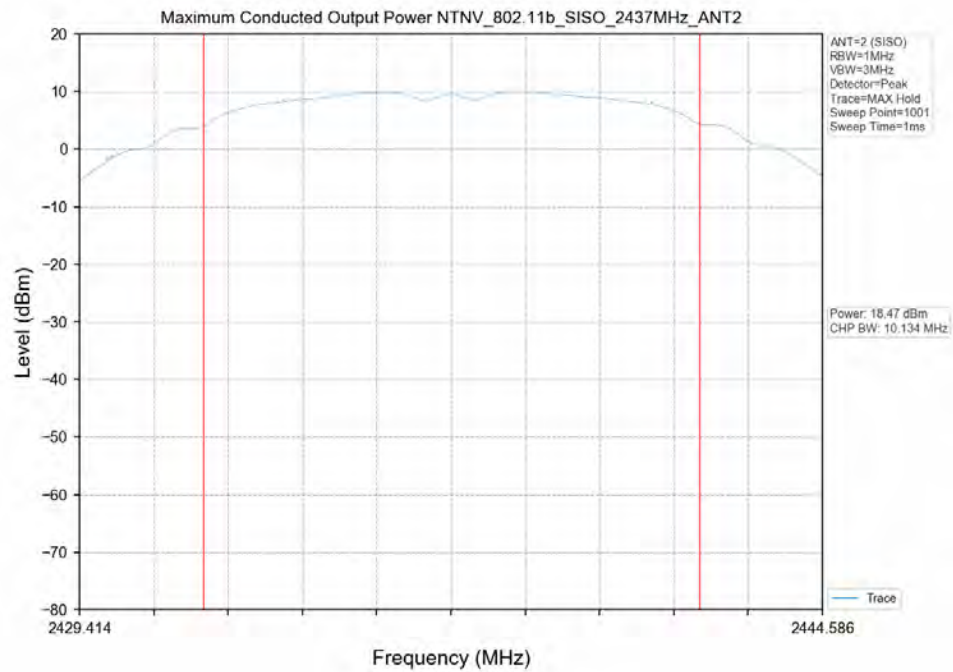
3.1 Test Result

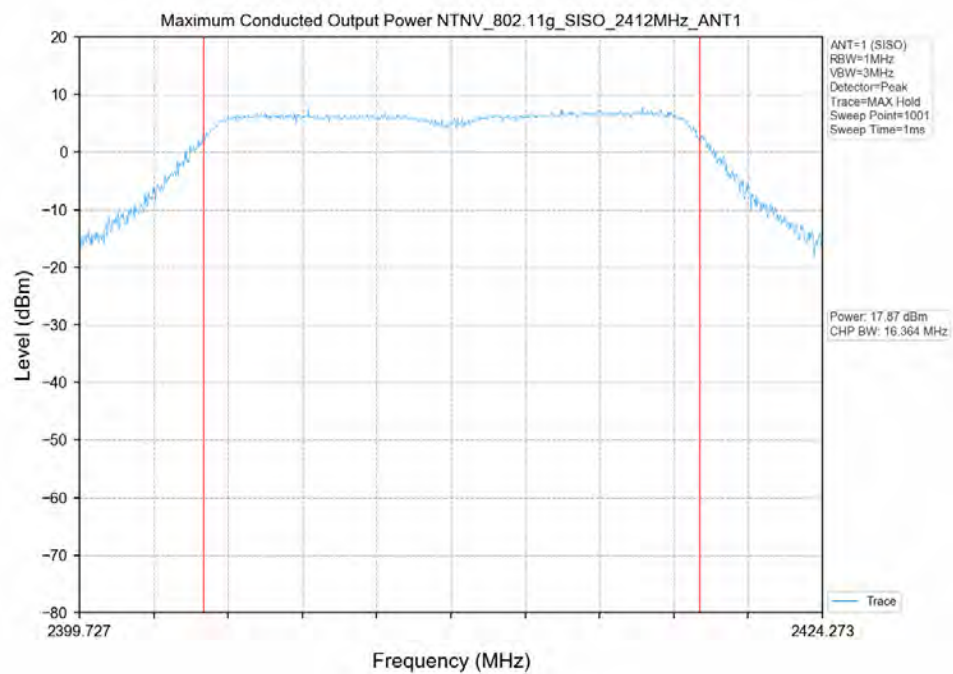
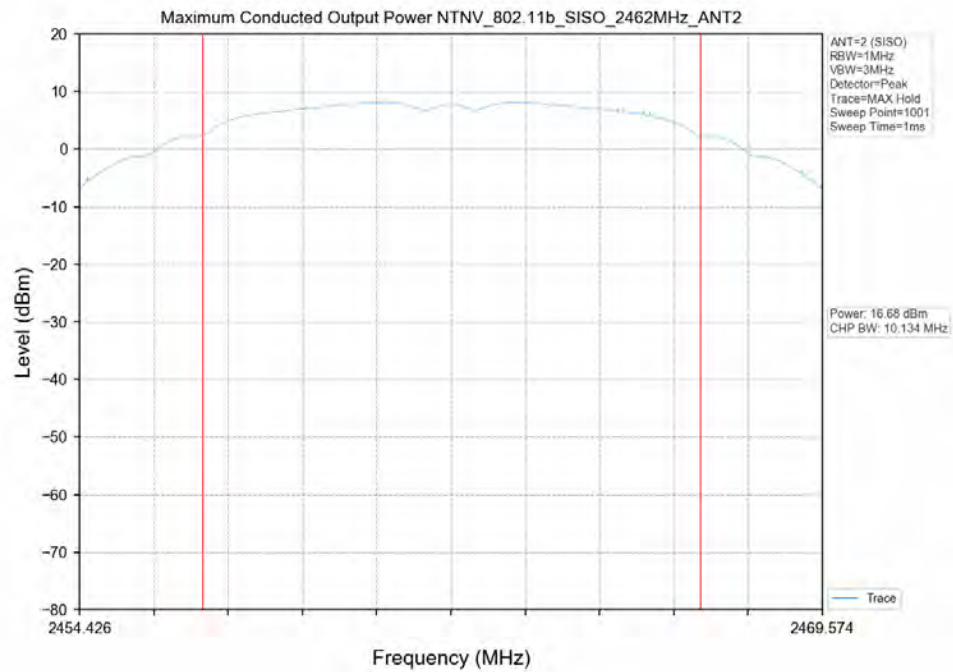
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	16.59	17.23	/	30	PASS
	2437	SISO	17.27	18.47	/	30	PASS
	2462	SISO	17.37	16.68	/	30	PASS
802.11g	2412	SISO	17.87	17.08	/	30	PASS
	2437	SISO	18.21	17.80	/	30	PASS
	2462	SISO	17.35	17.18	/	30	PASS
802.11n(HT20)	2412	MIMO	14.87	14.25	17.58	30	PASS
	2437	MIMO	15.53	15.35	18.45	30	PASS
	2462	MIMO	16.75	14.83	18.91	30	PASS

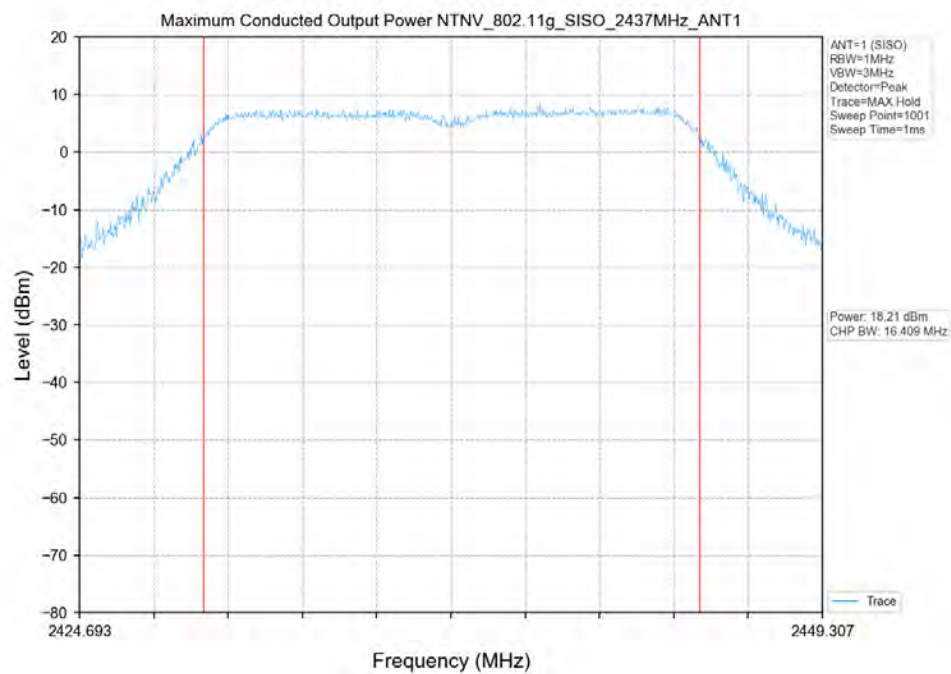
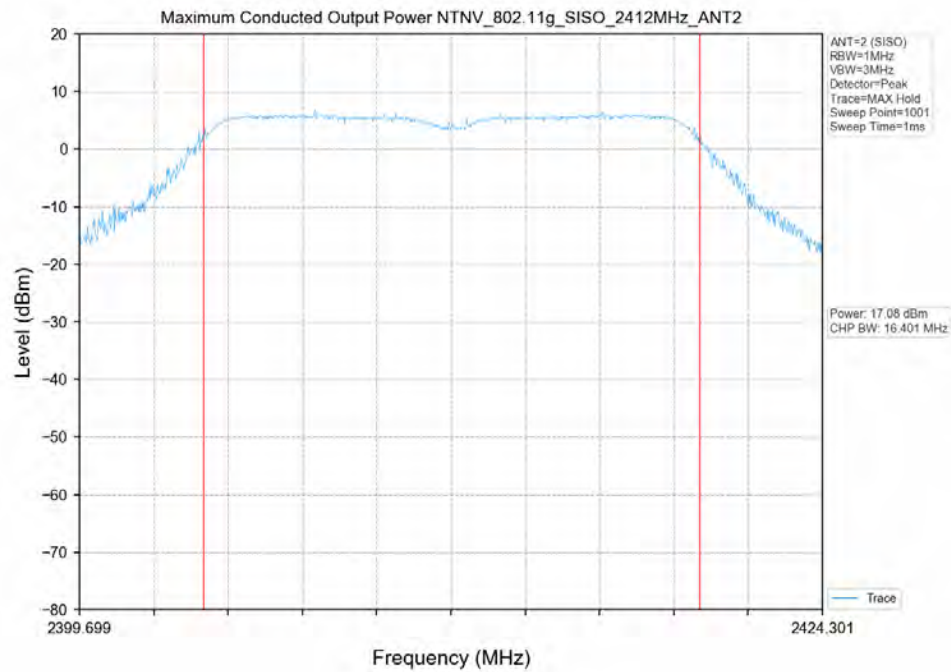
3.2 Test Graph

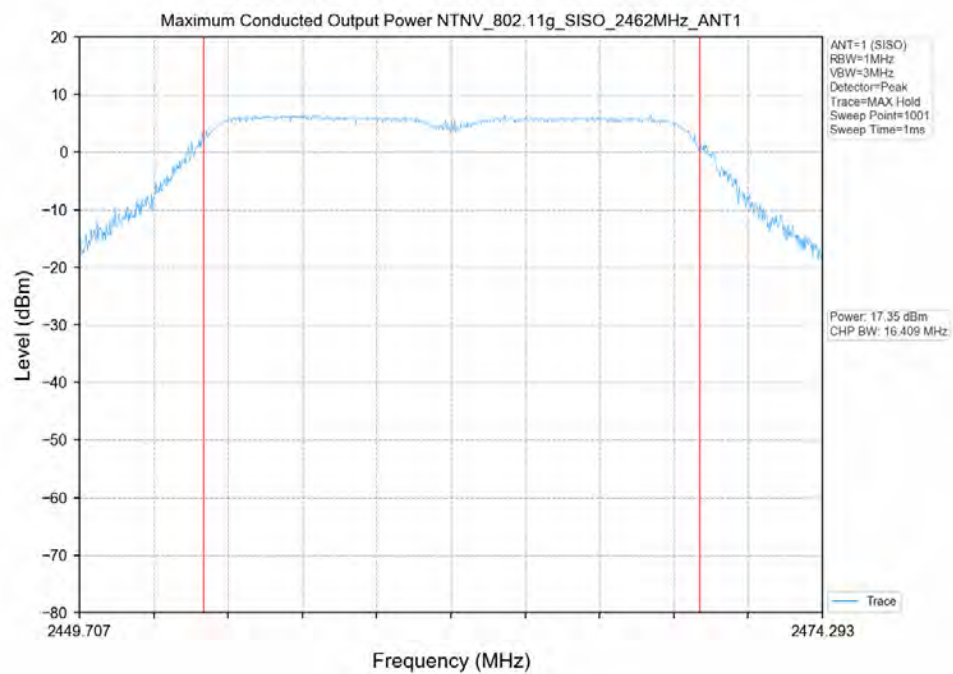
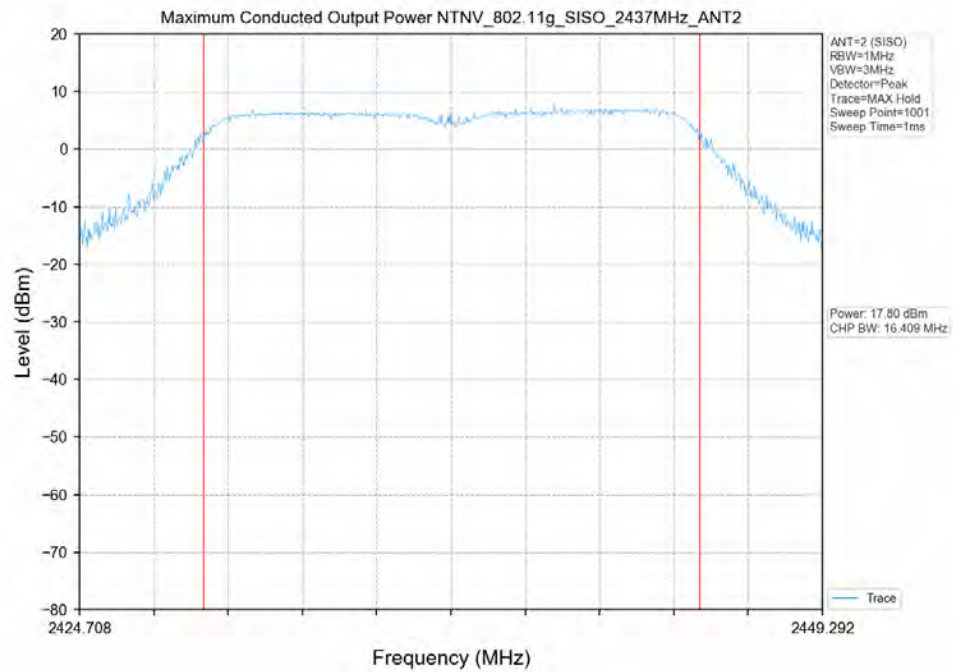


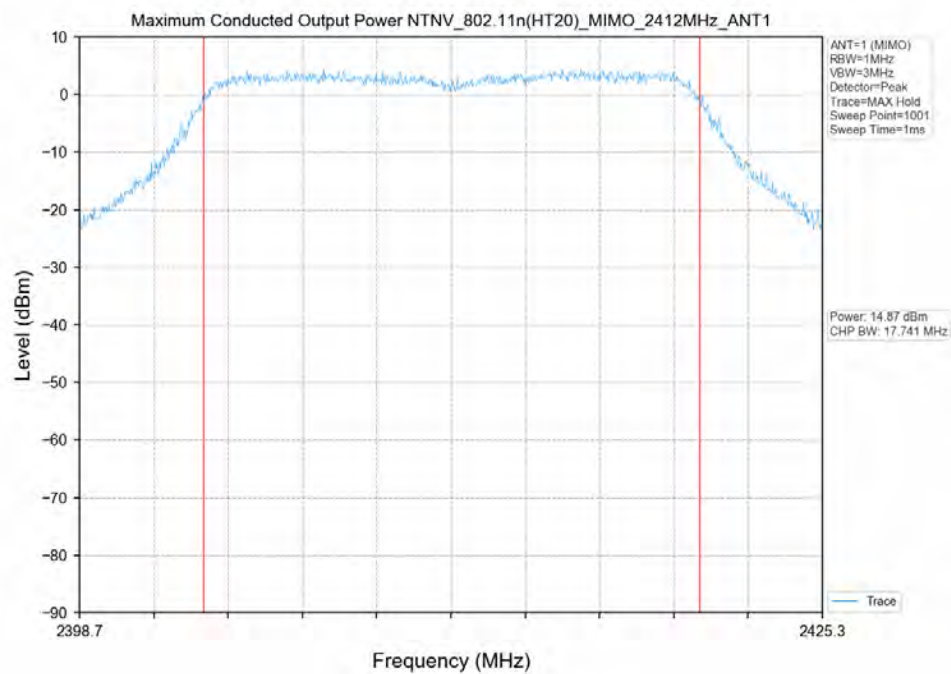
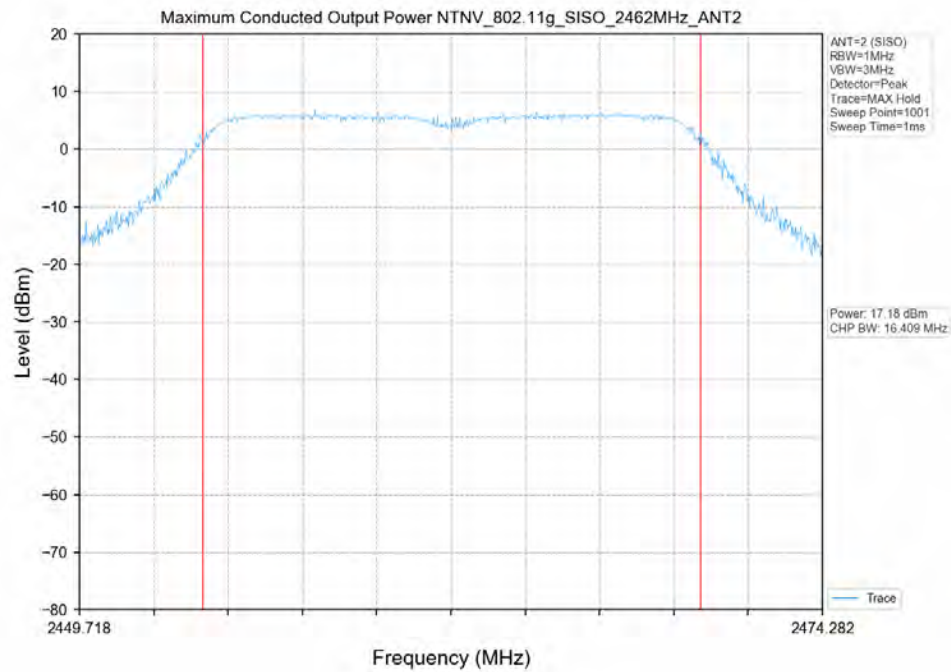


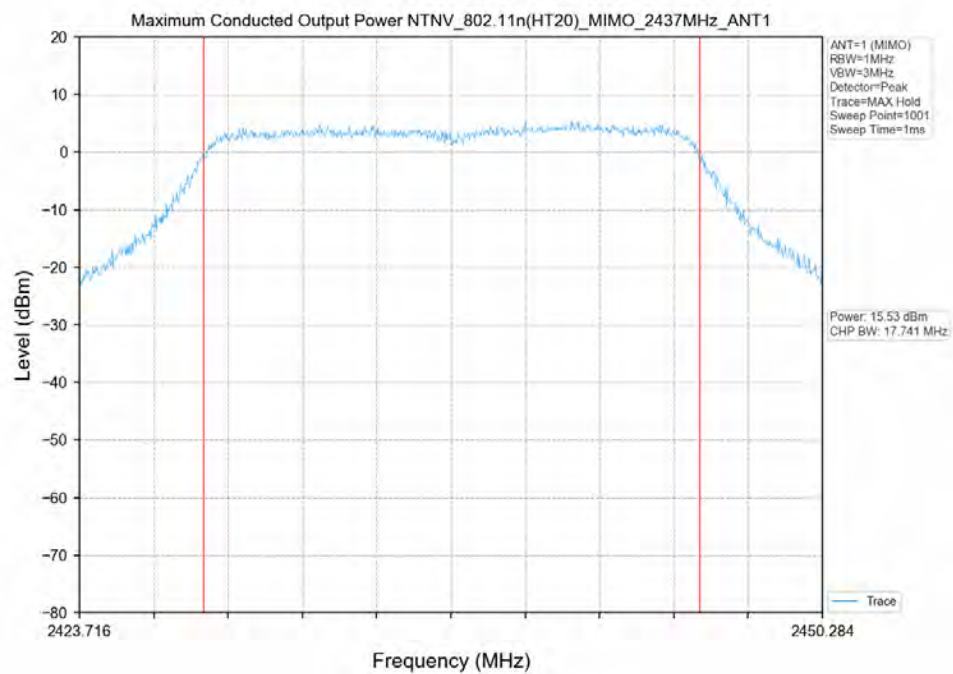
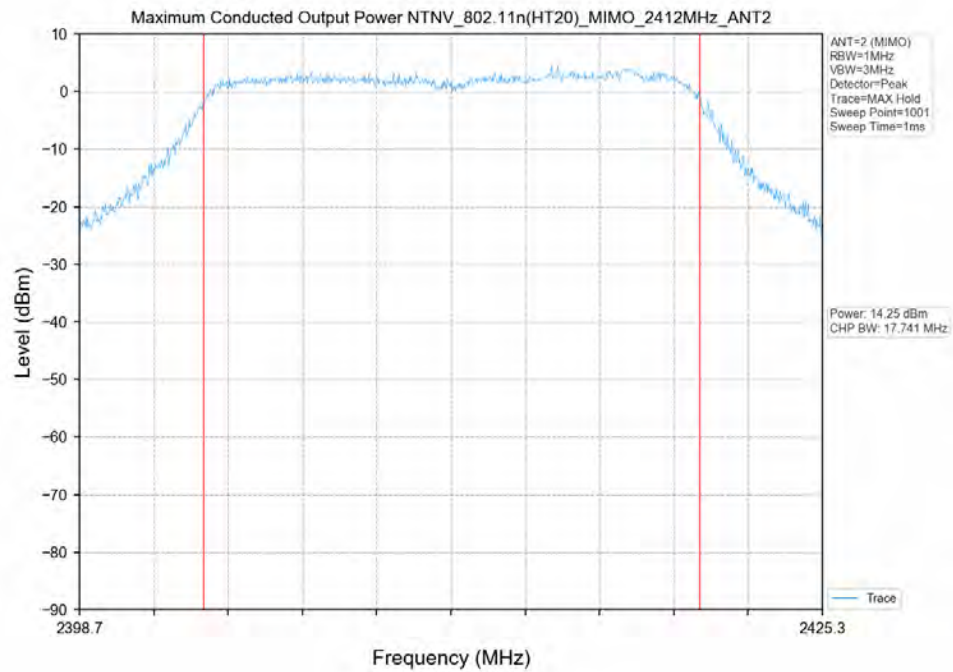


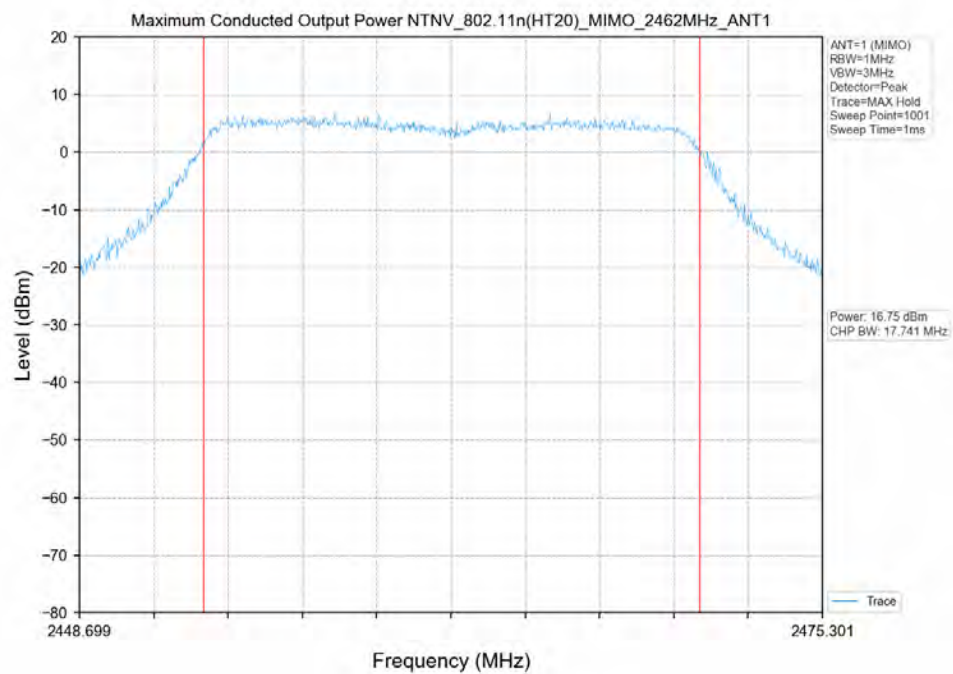
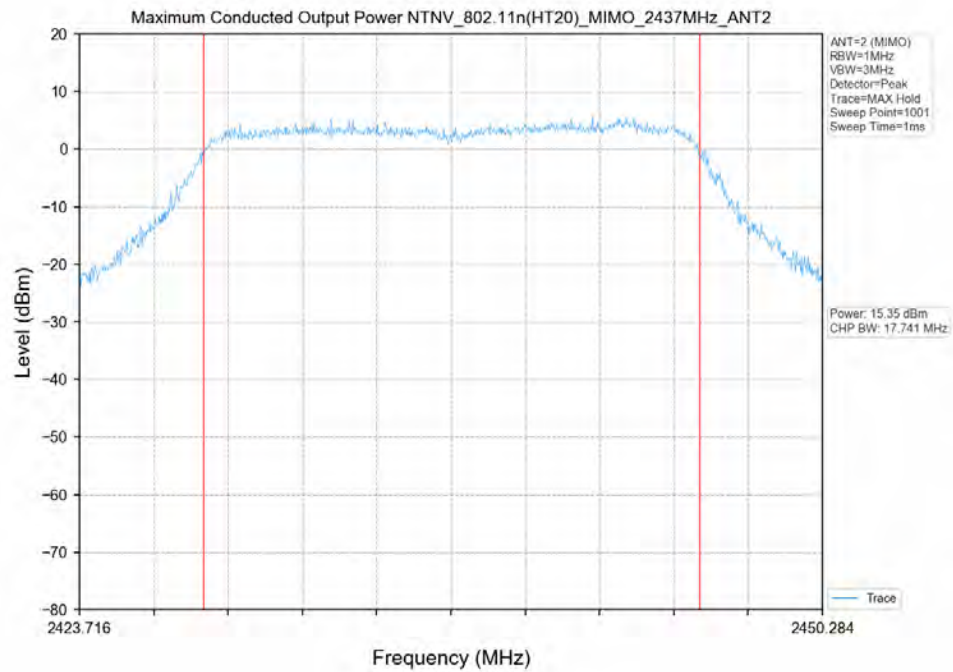


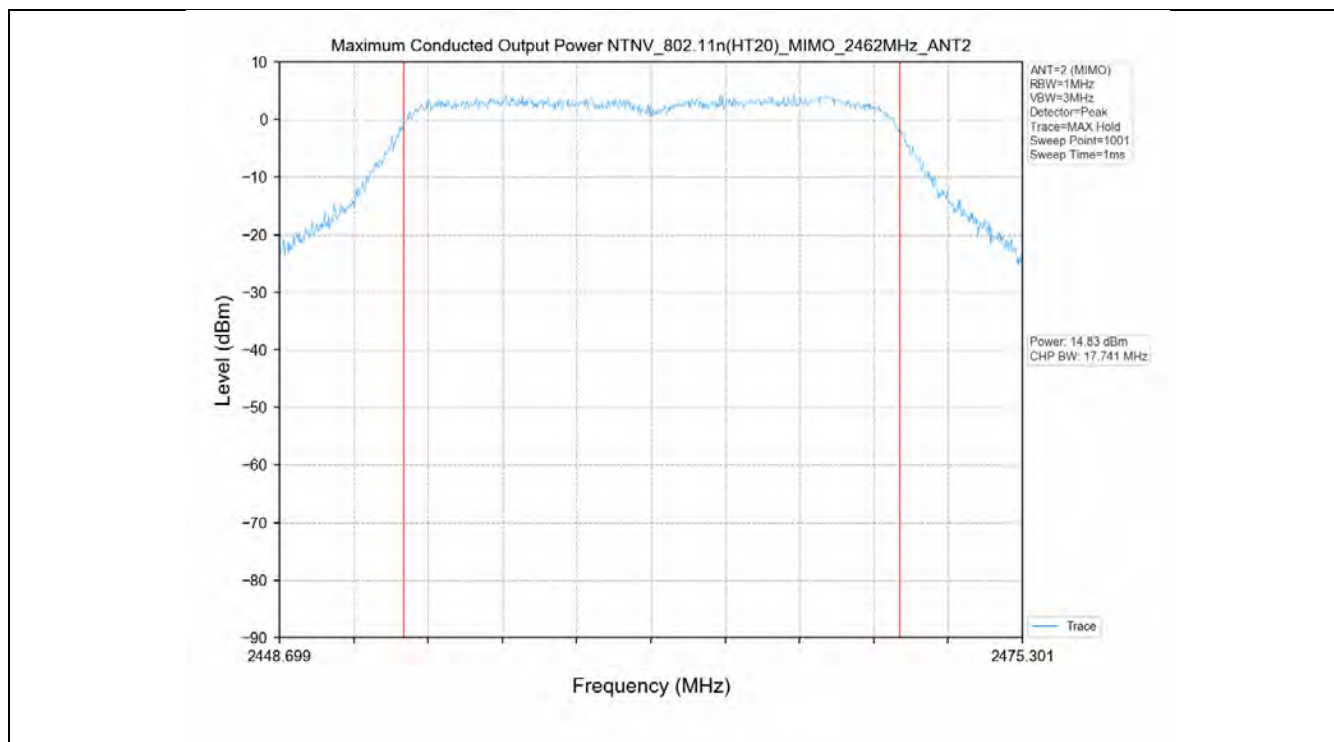










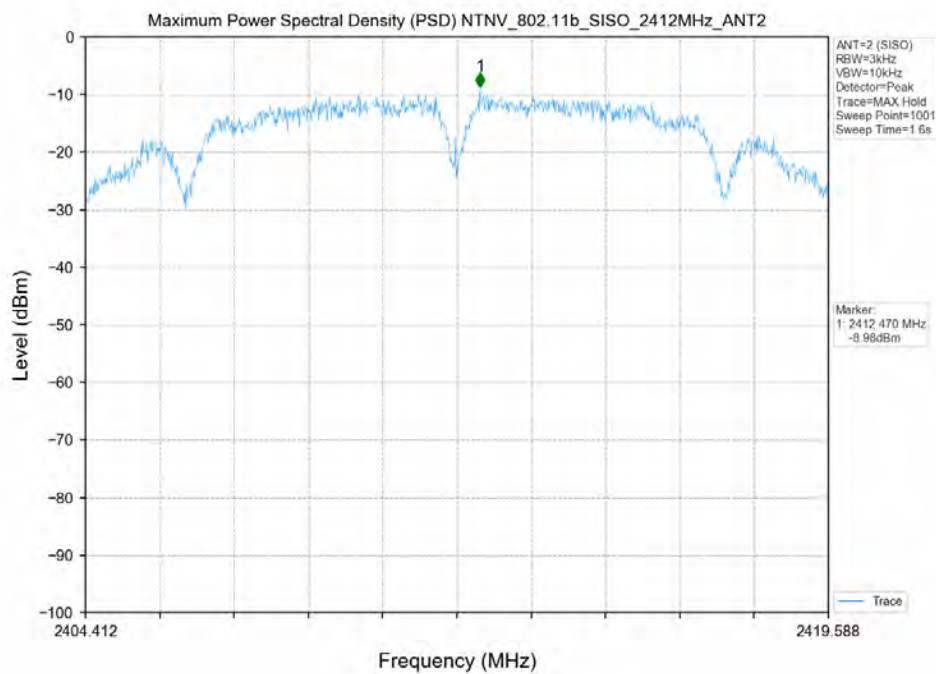
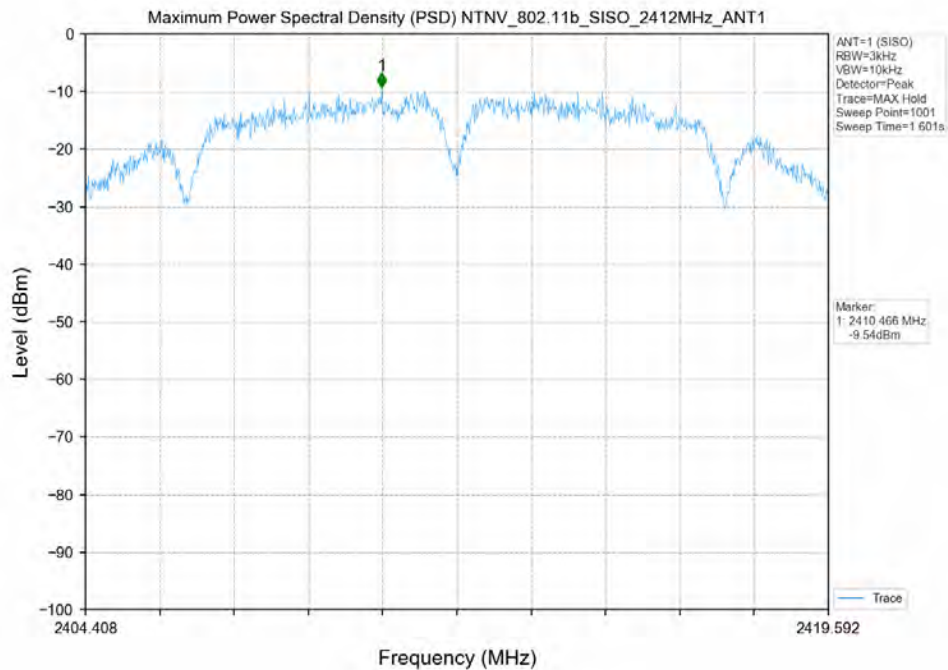


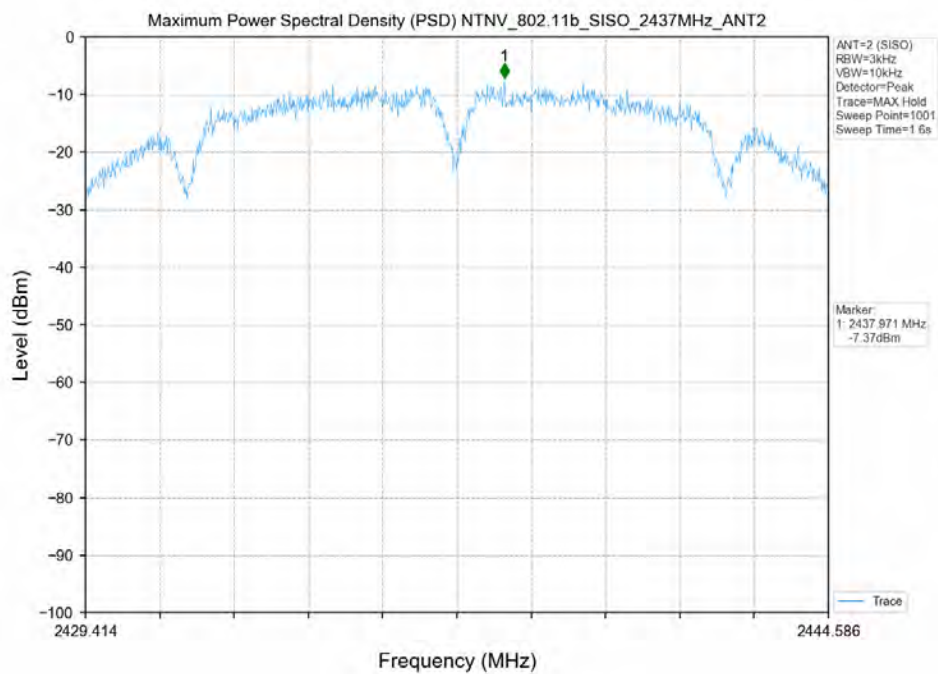
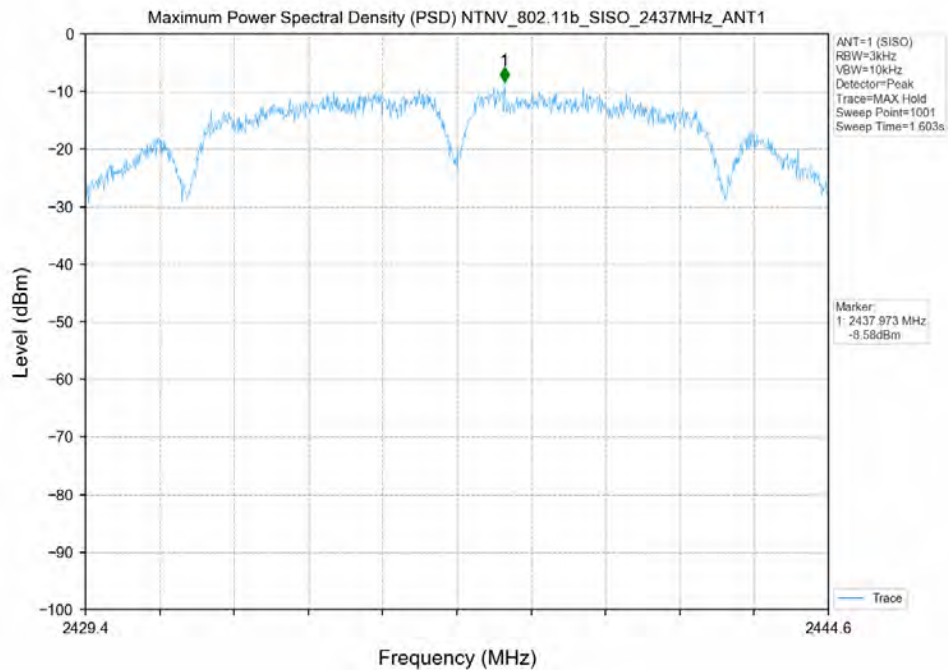
4. Maximum Power Spectral Density (PSD)

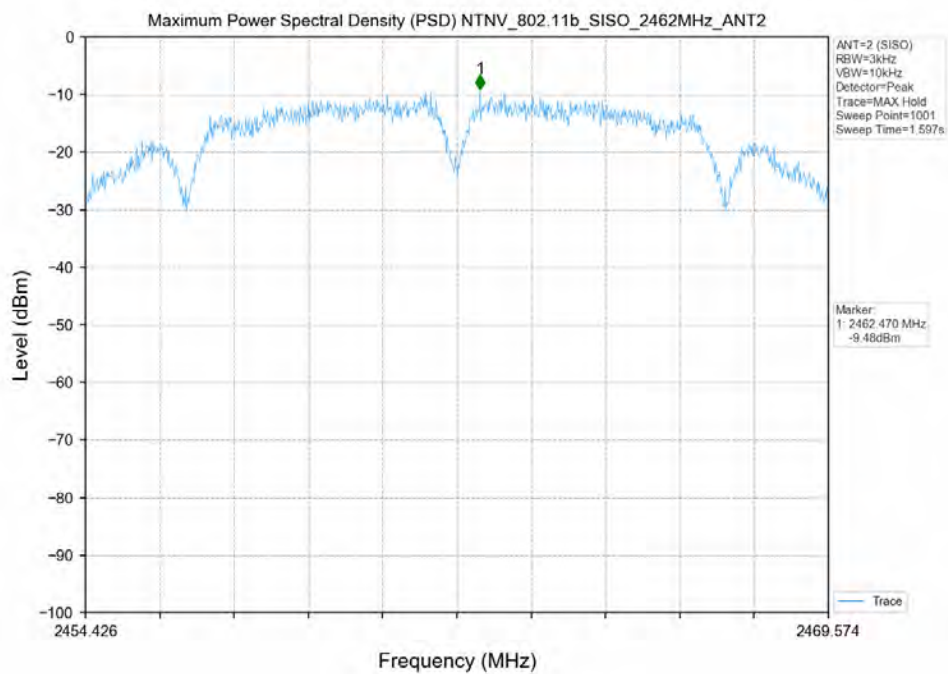
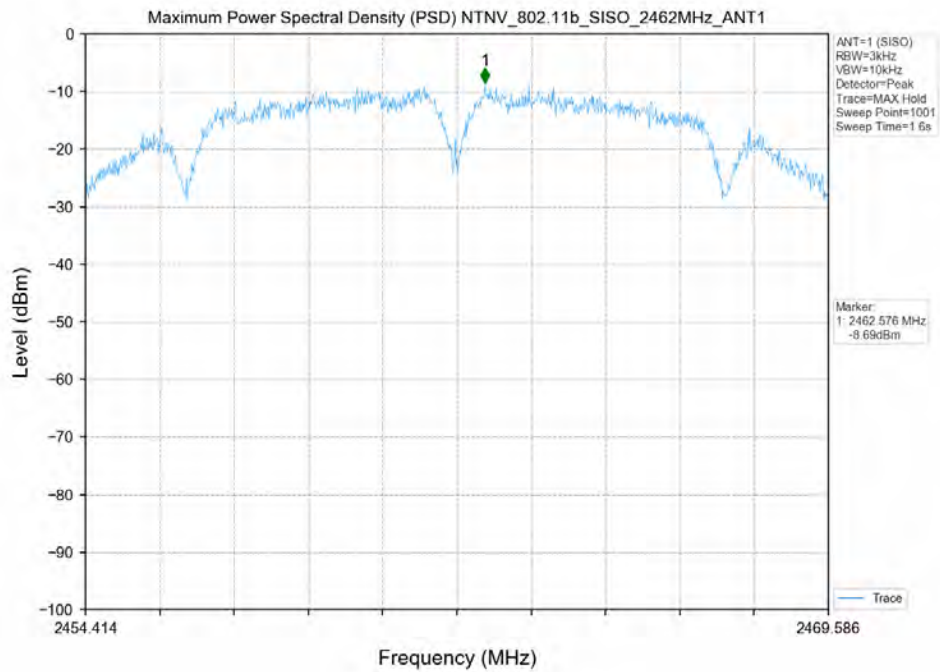
4.1 Test Result

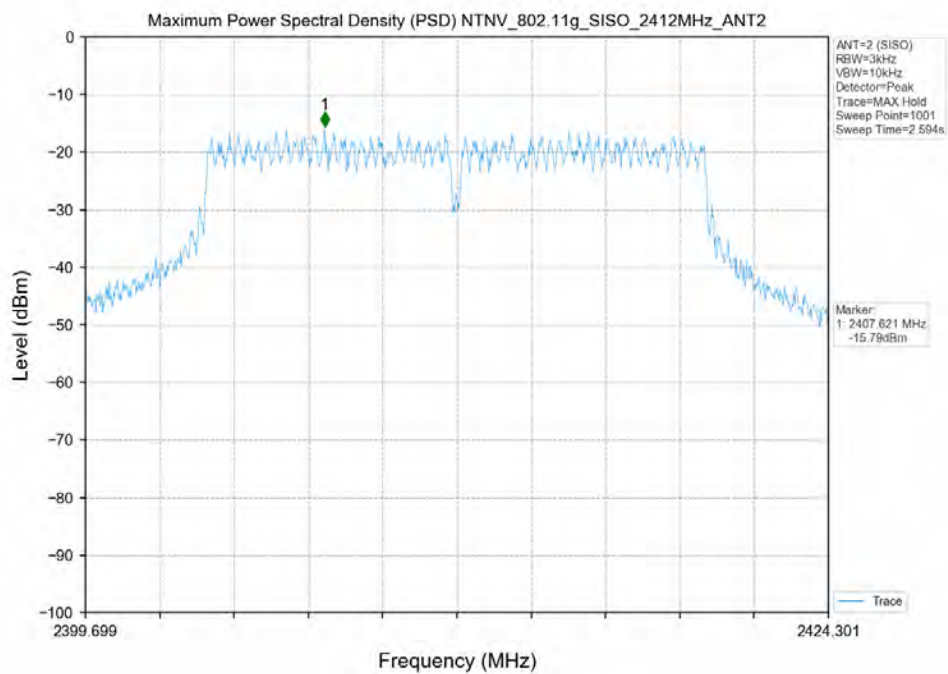
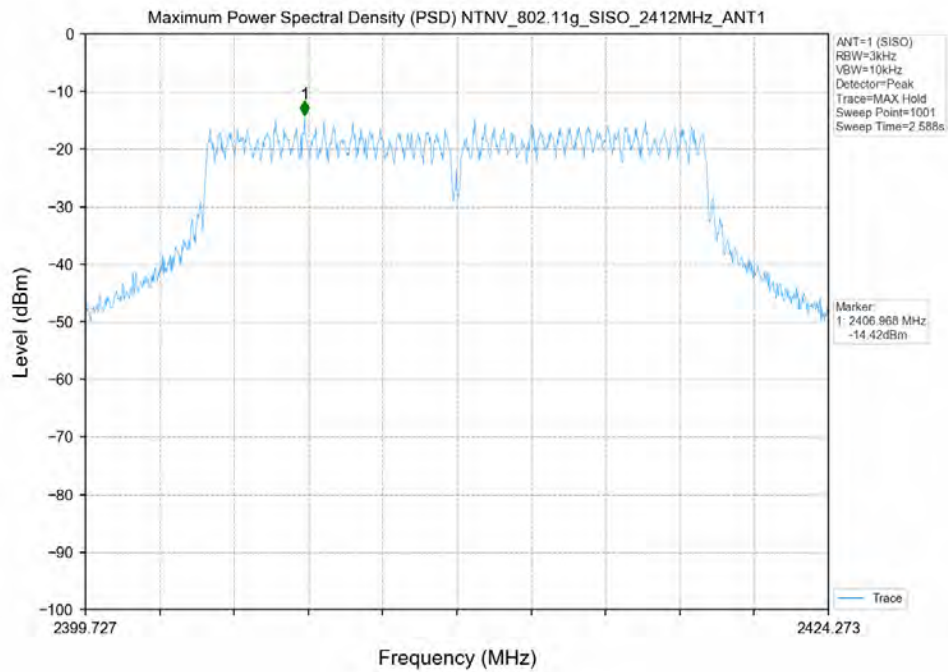
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-9.54	-8.98	/	≤8	PASS
	2437	SISO	-8.58	-7.37	/	≤8	PASS
	2462	SISO	-8.69	-9.48	/	≤8	PASS
802.11g	2412	SISO	-14.42	-15.79	/	≤8	PASS
	2437	SISO	-14.41	-14.52	/	≤8	PASS
	2462	SISO	-15.62	-17.02	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-18.21	-18.94	-15.85	≤8	PASS
	2437	MIMO	-17.81	-17.68	-15.05	≤8	PASS
	2462	MIMO	-16.17	-17.84	-14.46	≤8	PASS

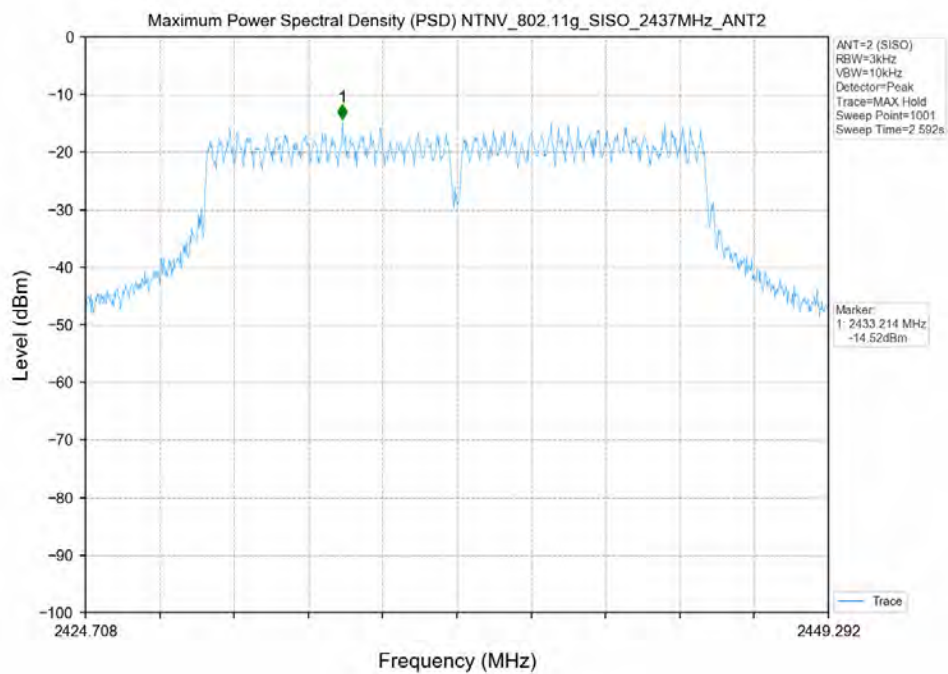
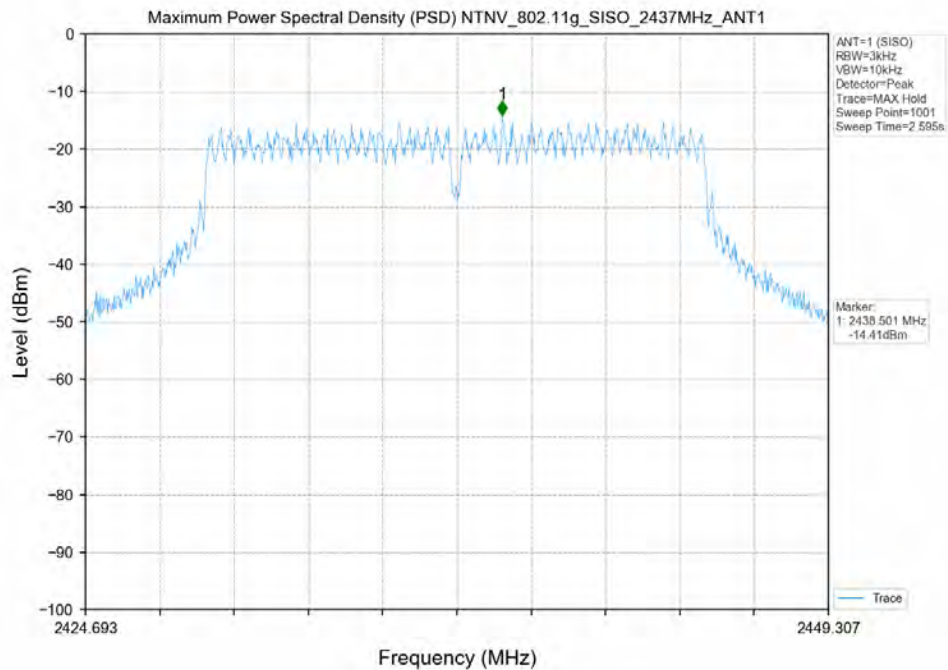
4.2 Test Graph

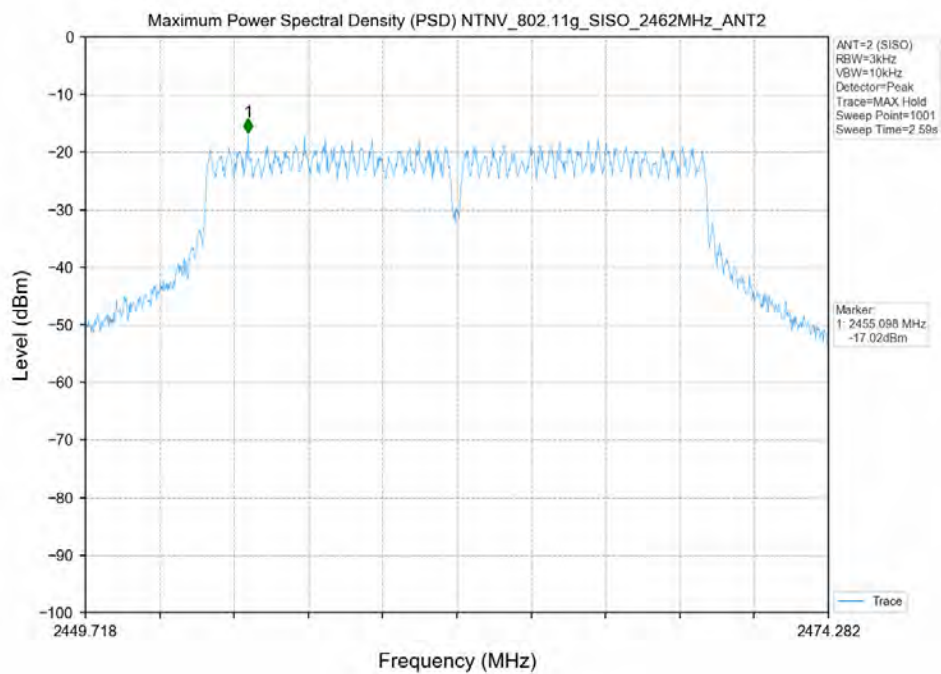
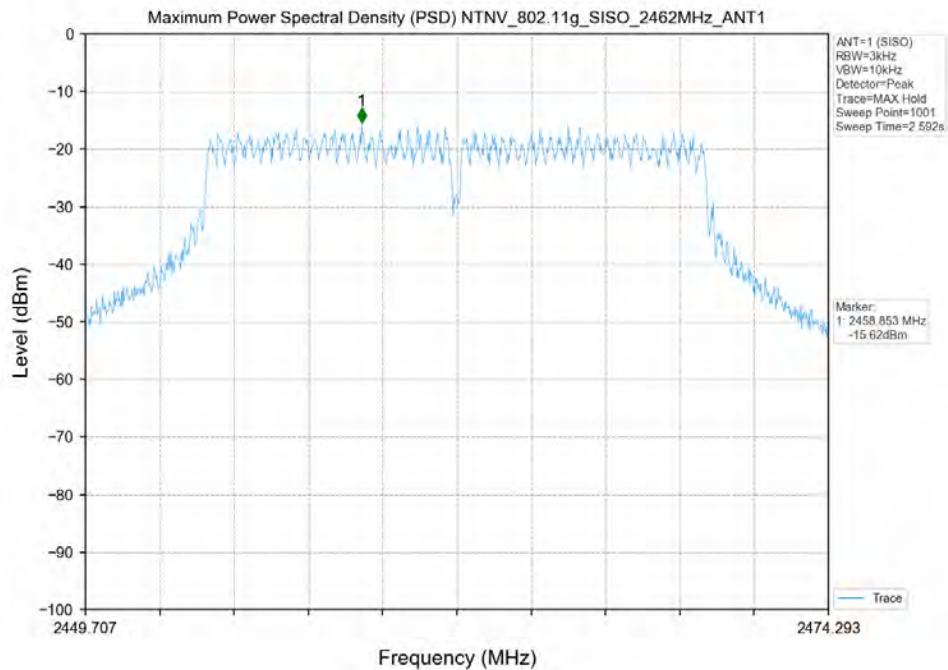


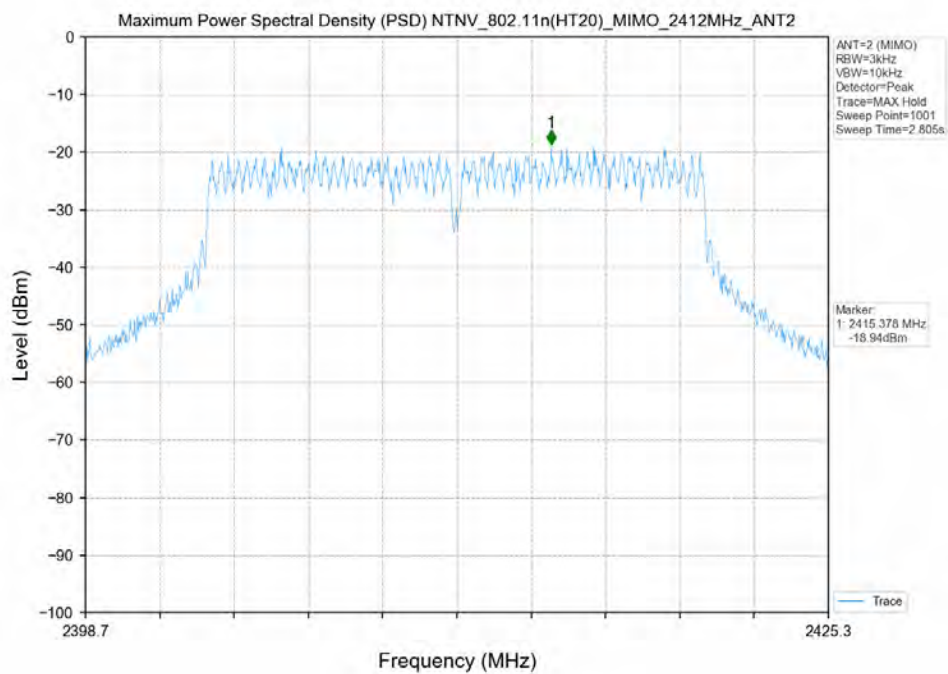
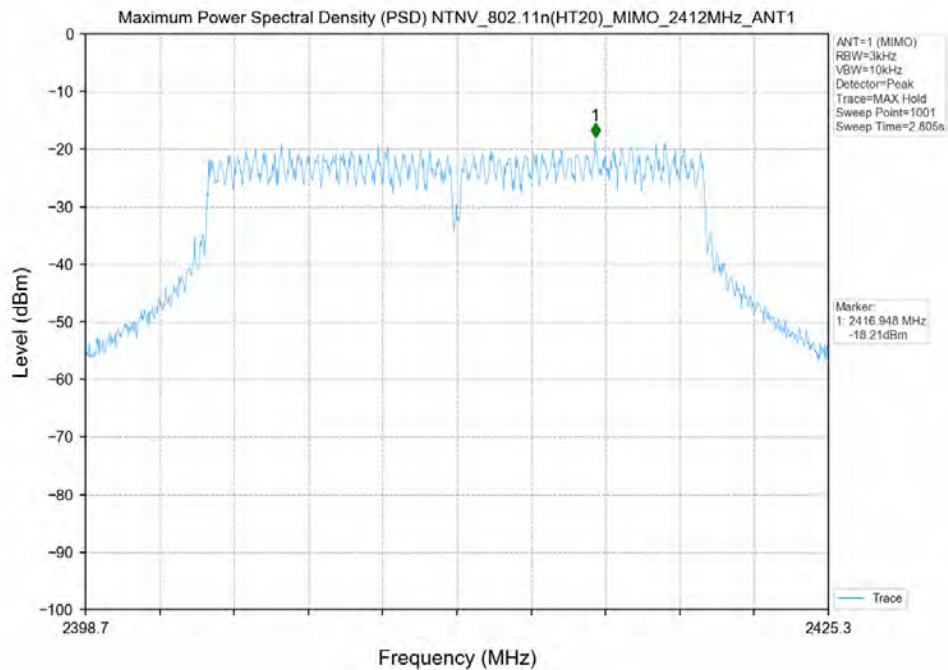


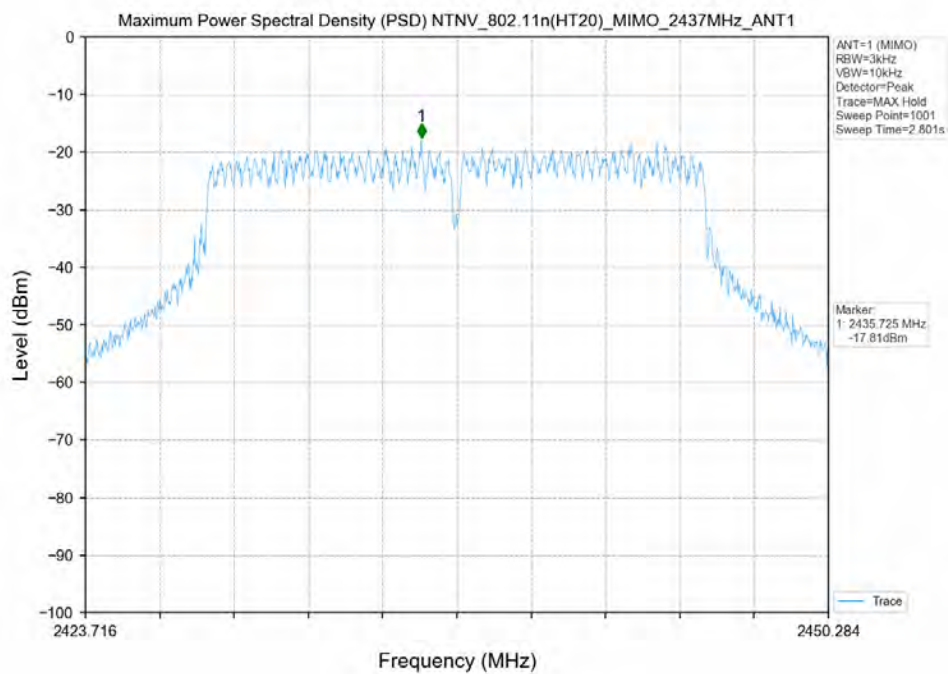
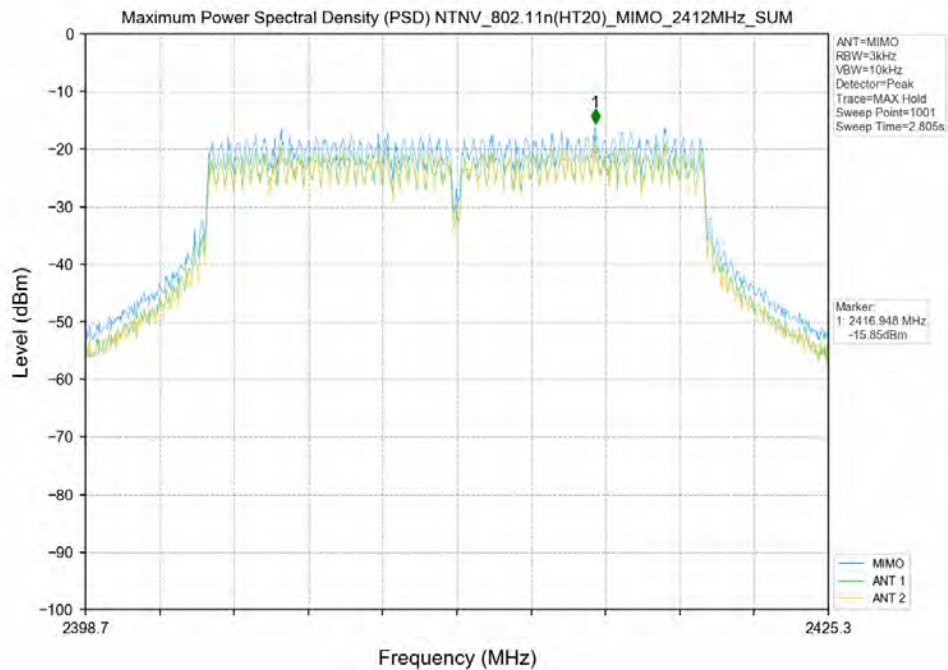


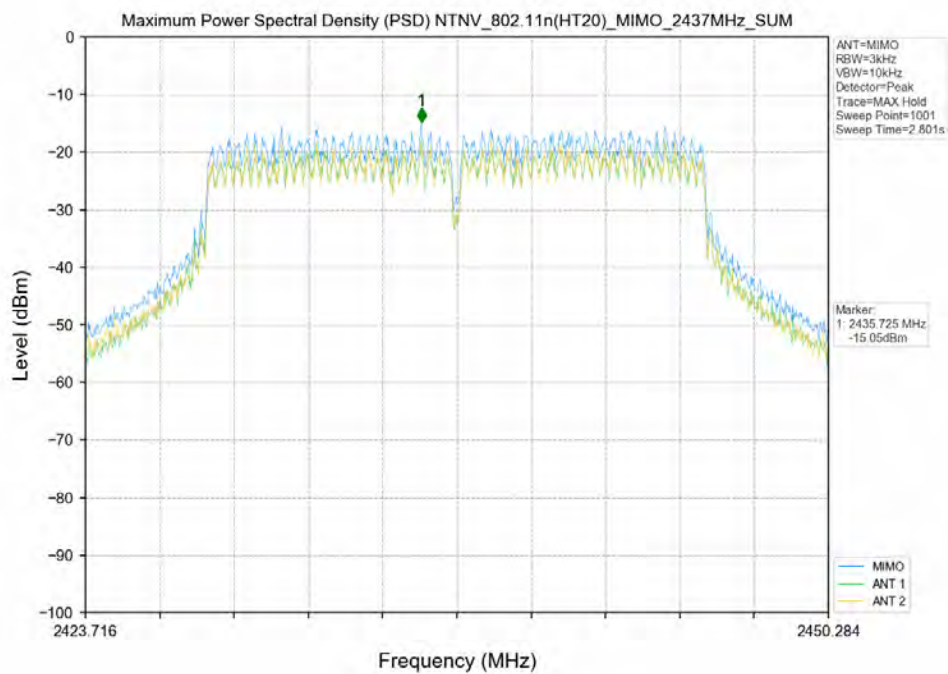
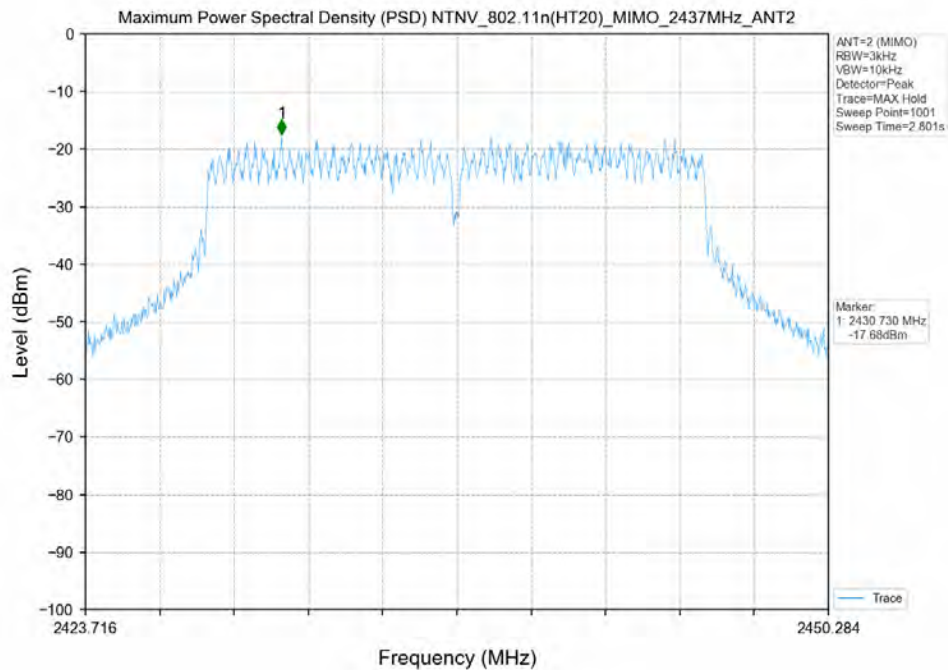


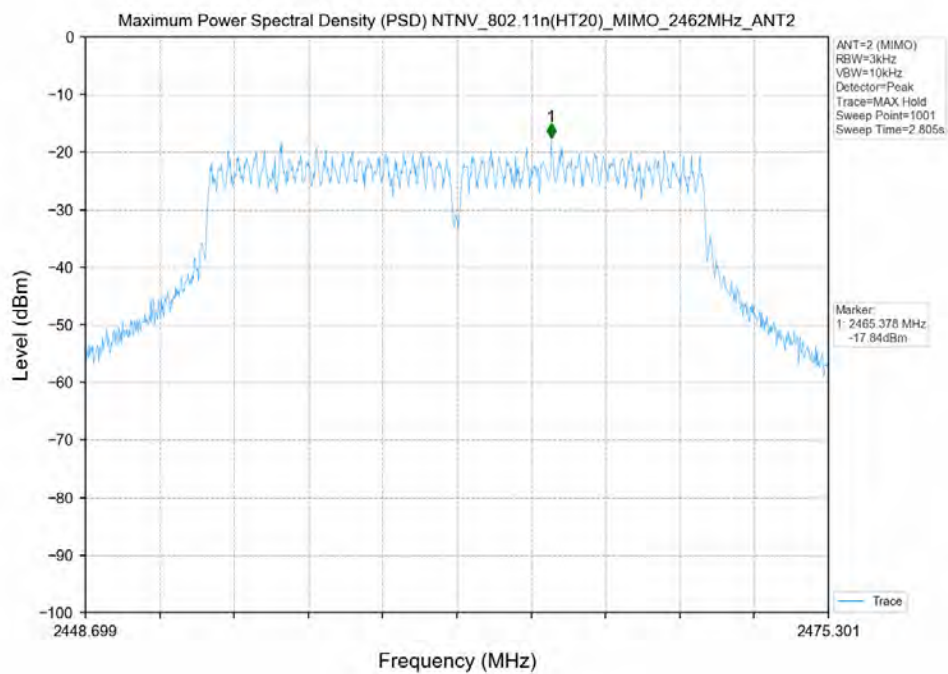
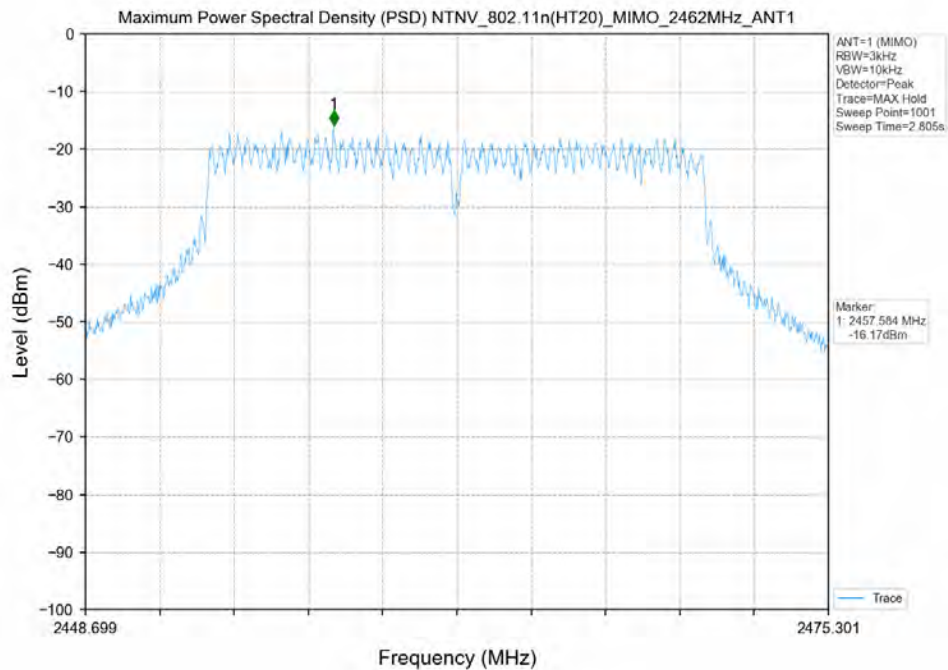


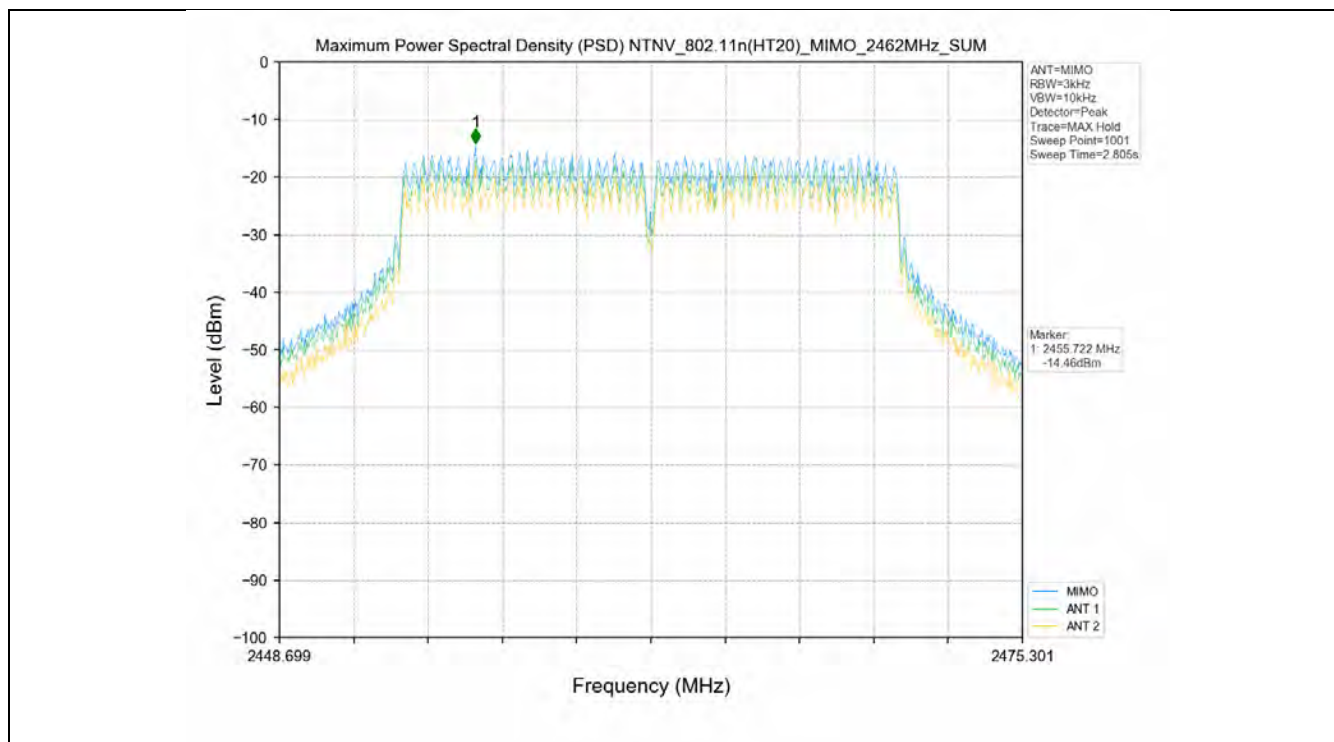










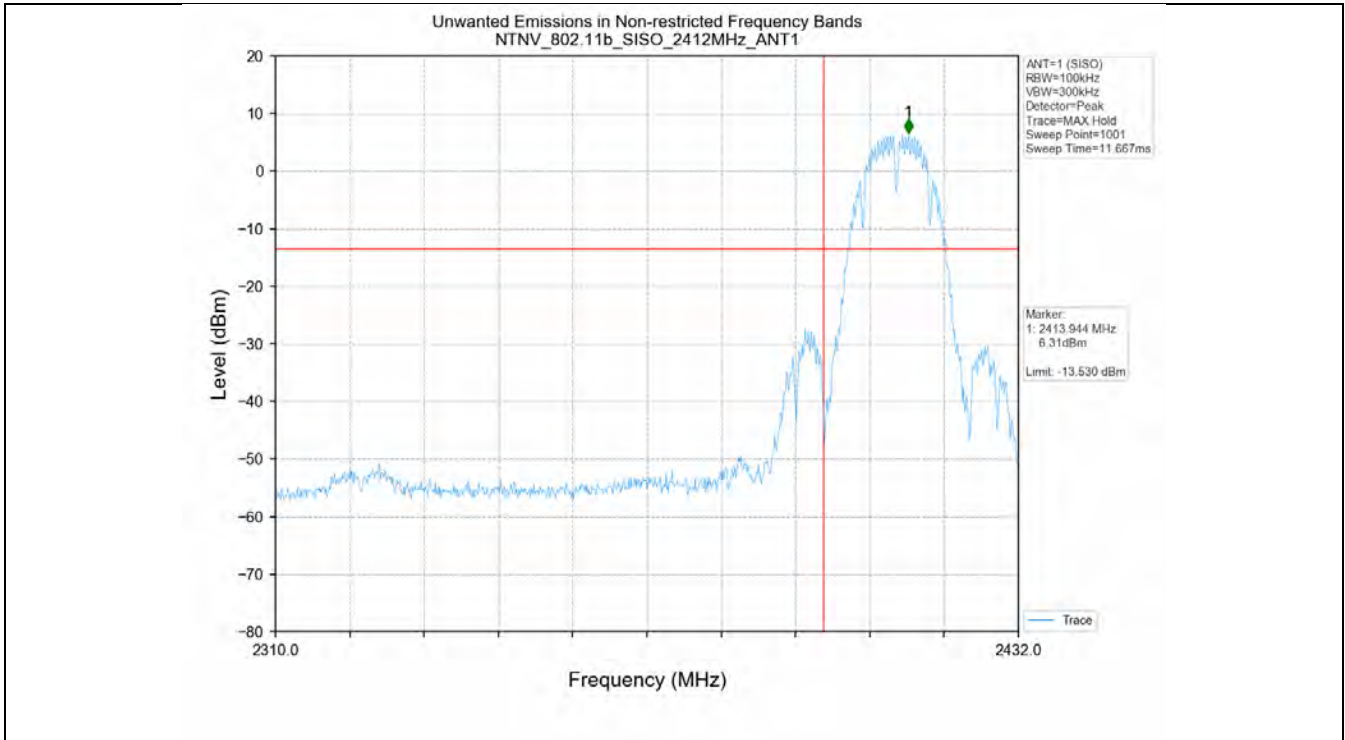
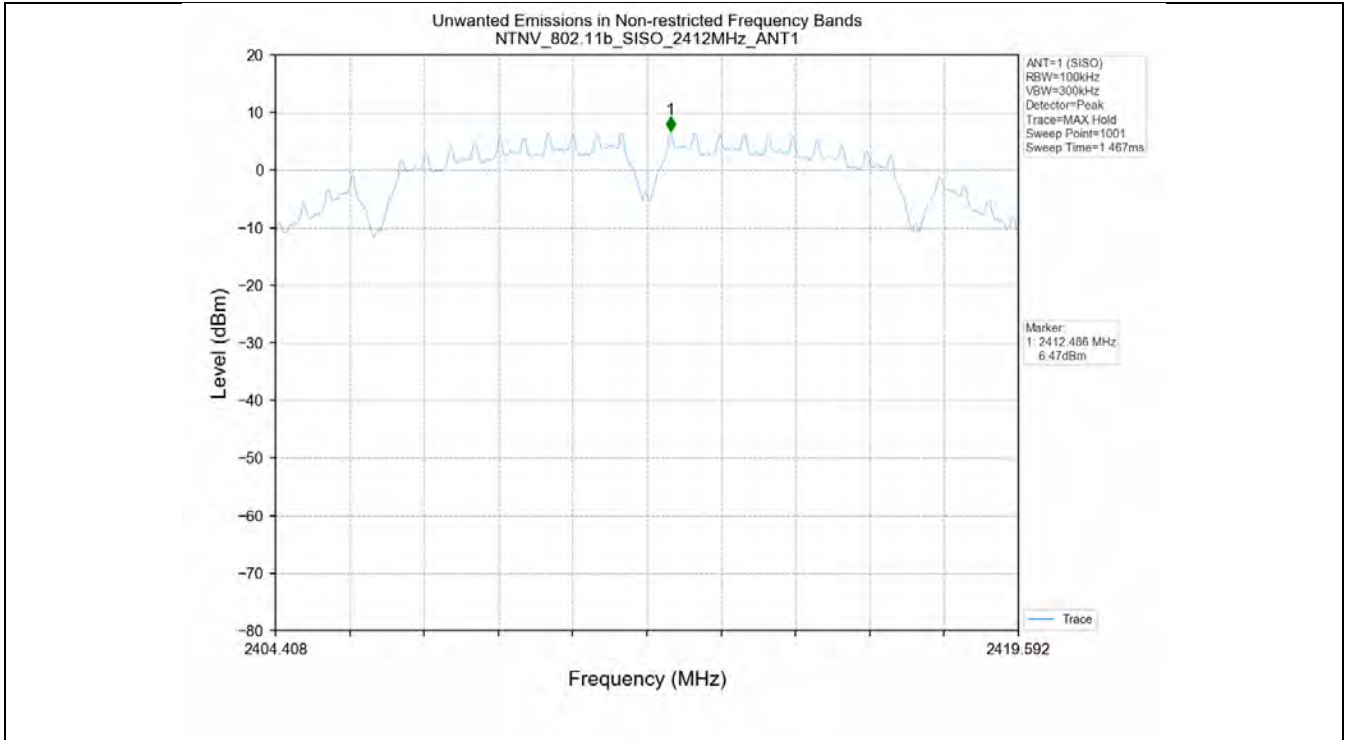


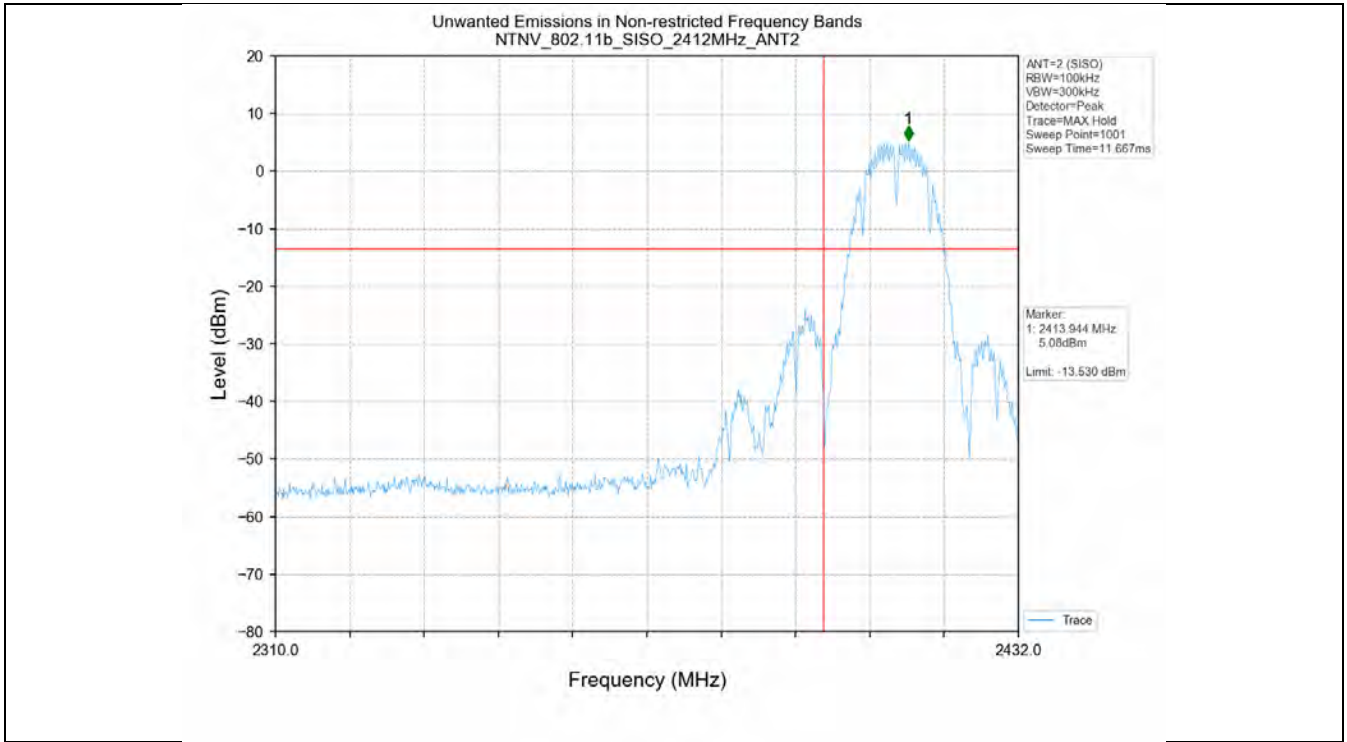
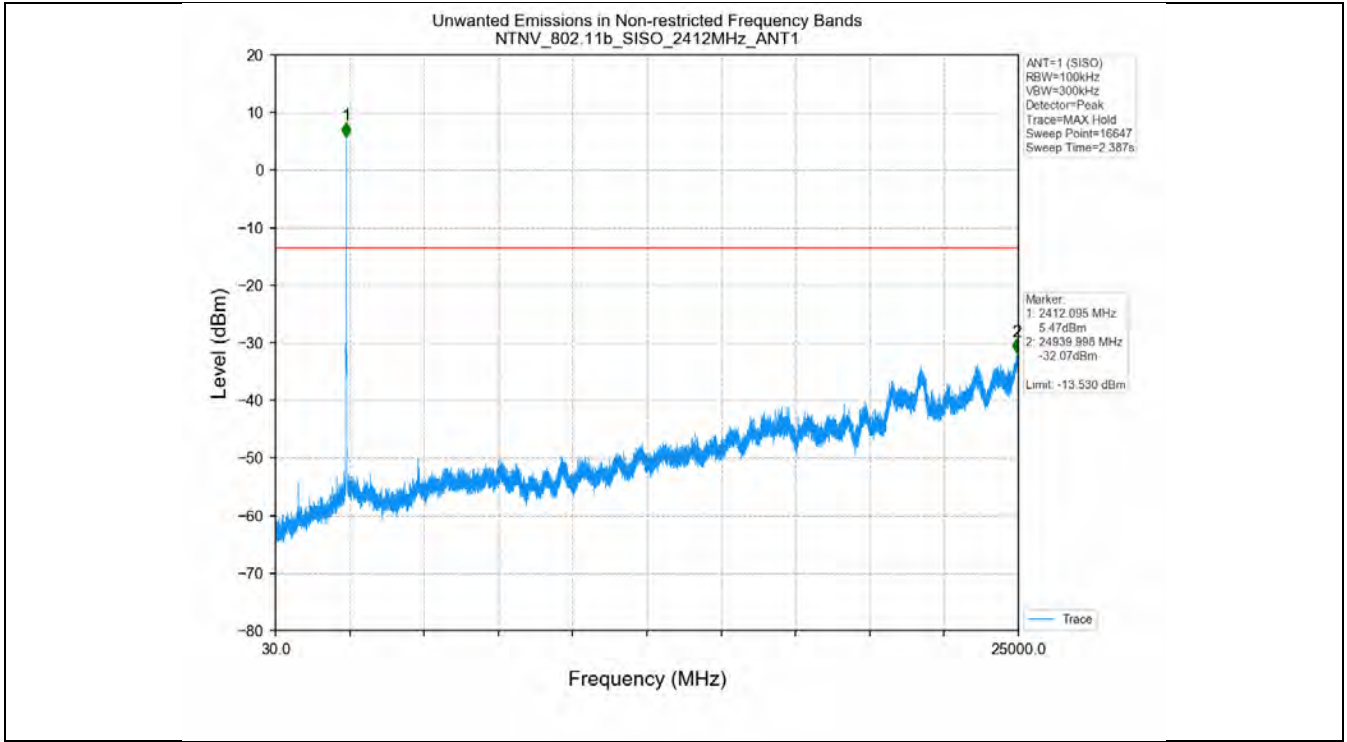
5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

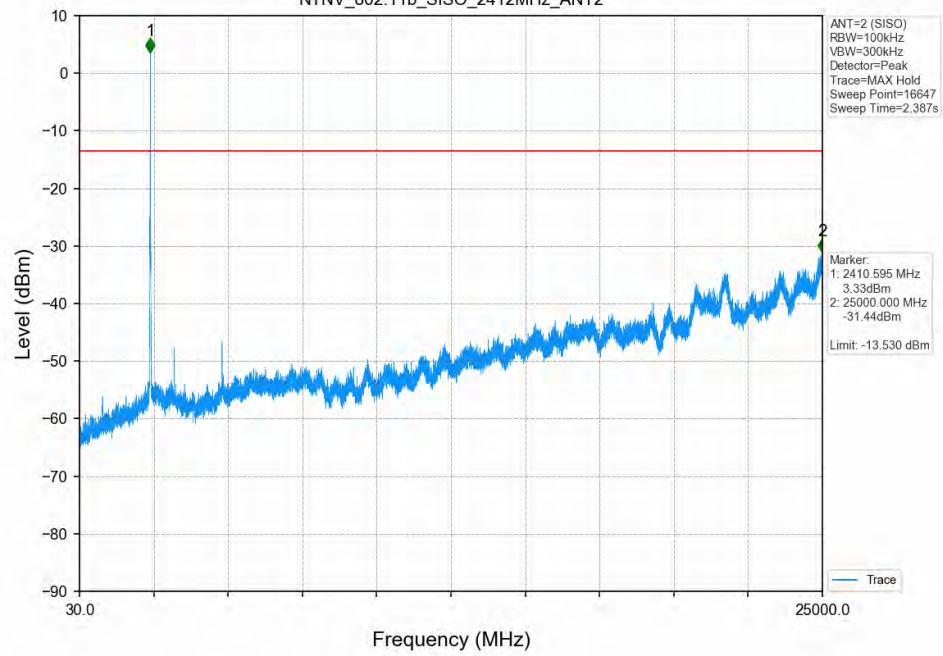
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-13.53	PASS
			2	Refer to test graph	-13.53	PASS
	2437	SISO	1	Refer to test graph	-13.53	PASS
			2	Refer to test graph	-13.53	PASS
	2462	SISO	1	Refer to test graph	-13.53	PASS
			2	Refer to test graph	-13.53	PASS
802.11g	2412	SISO	1	Refer to test graph	-19.70	PASS
			2	Refer to test graph	-19.70	PASS
	2437	SISO	1	Refer to test graph	-19.70	PASS
			2	Refer to test graph	-19.70	PASS
	2462	SISO	1	Refer to test graph	-19.70	PASS
			2	Refer to test graph	-19.70	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-22.60	PASS
			2	Refer to test graph	-22.60	PASS
	2437	MIMO	1	Refer to test graph	-22.60	PASS
			2	Refer to test graph	-22.60	PASS
	2462	MIMO	1	Refer to test graph	-22.60	PASS
			2	Refer to test graph	-22.60	PASS

5.2 Test Graph

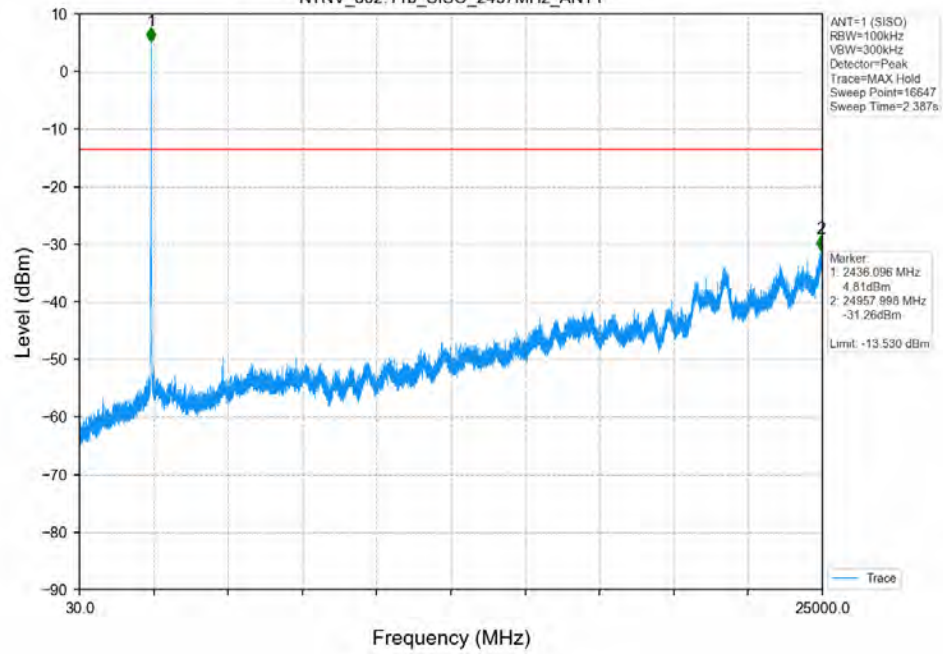


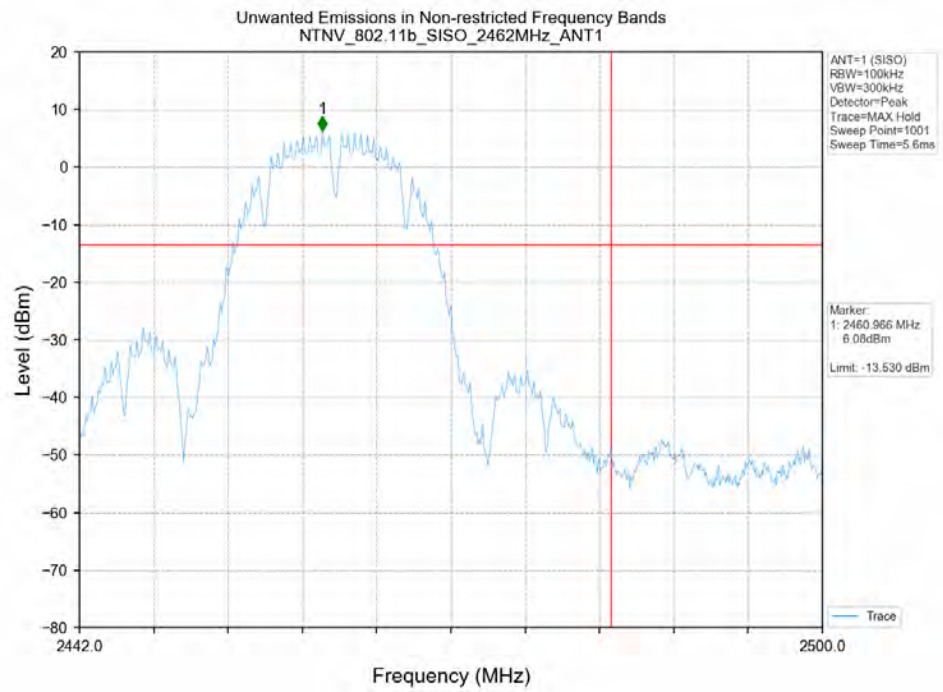
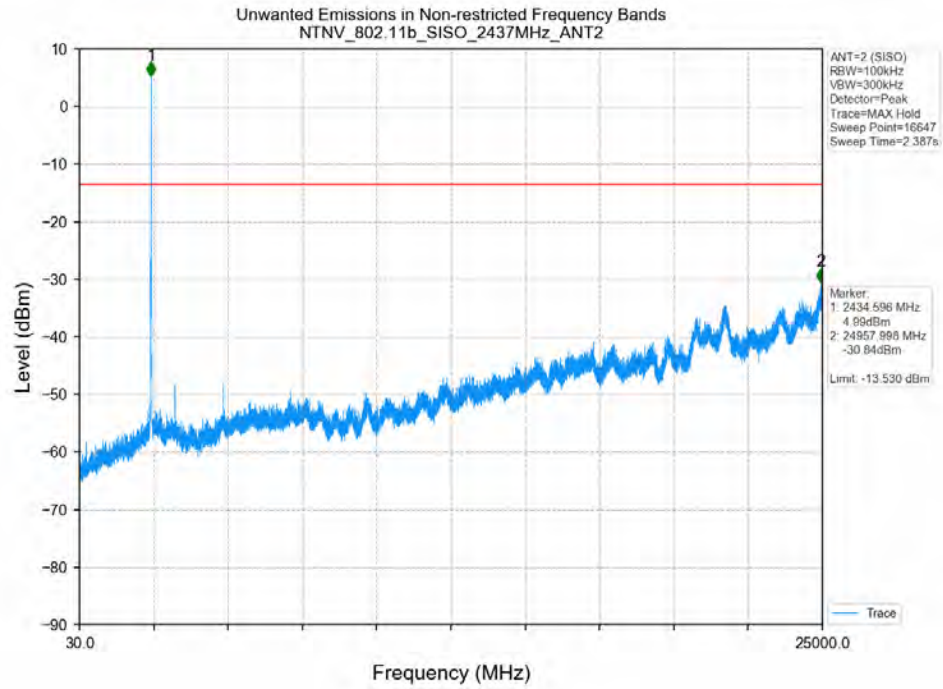


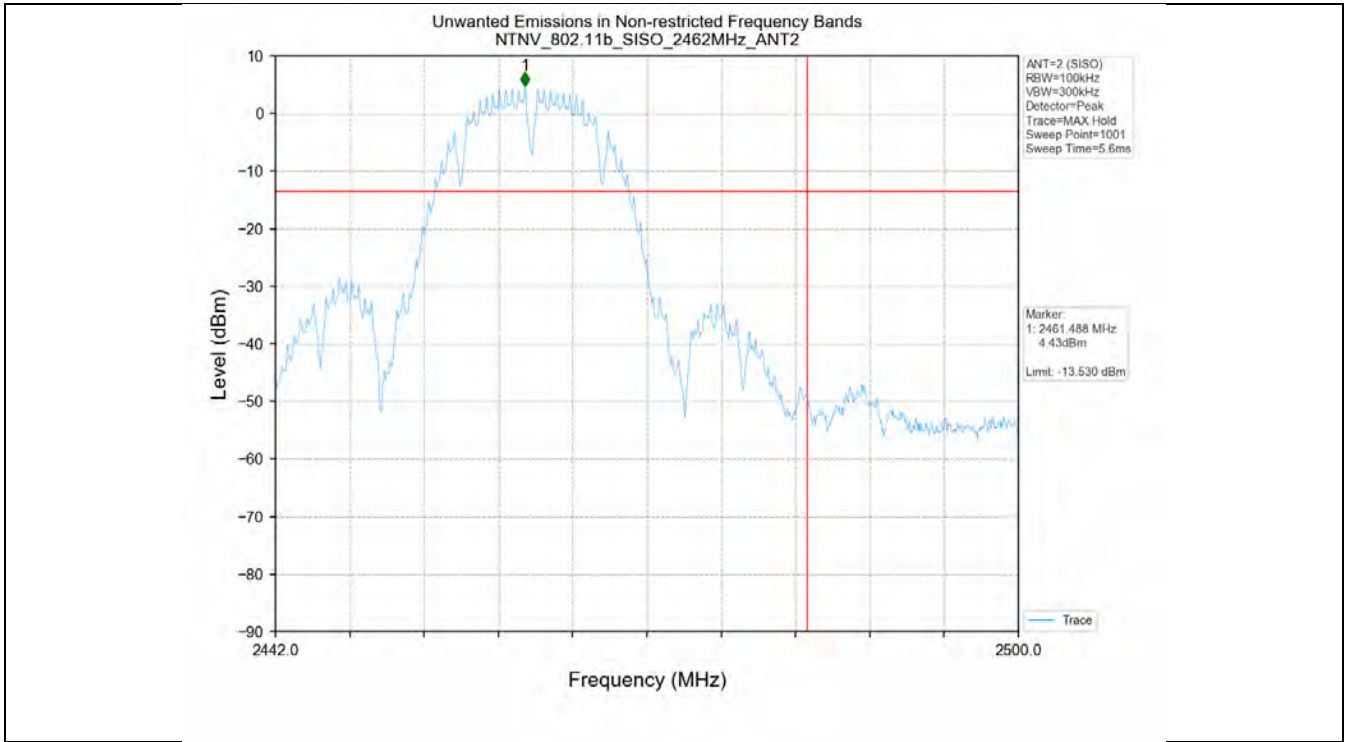
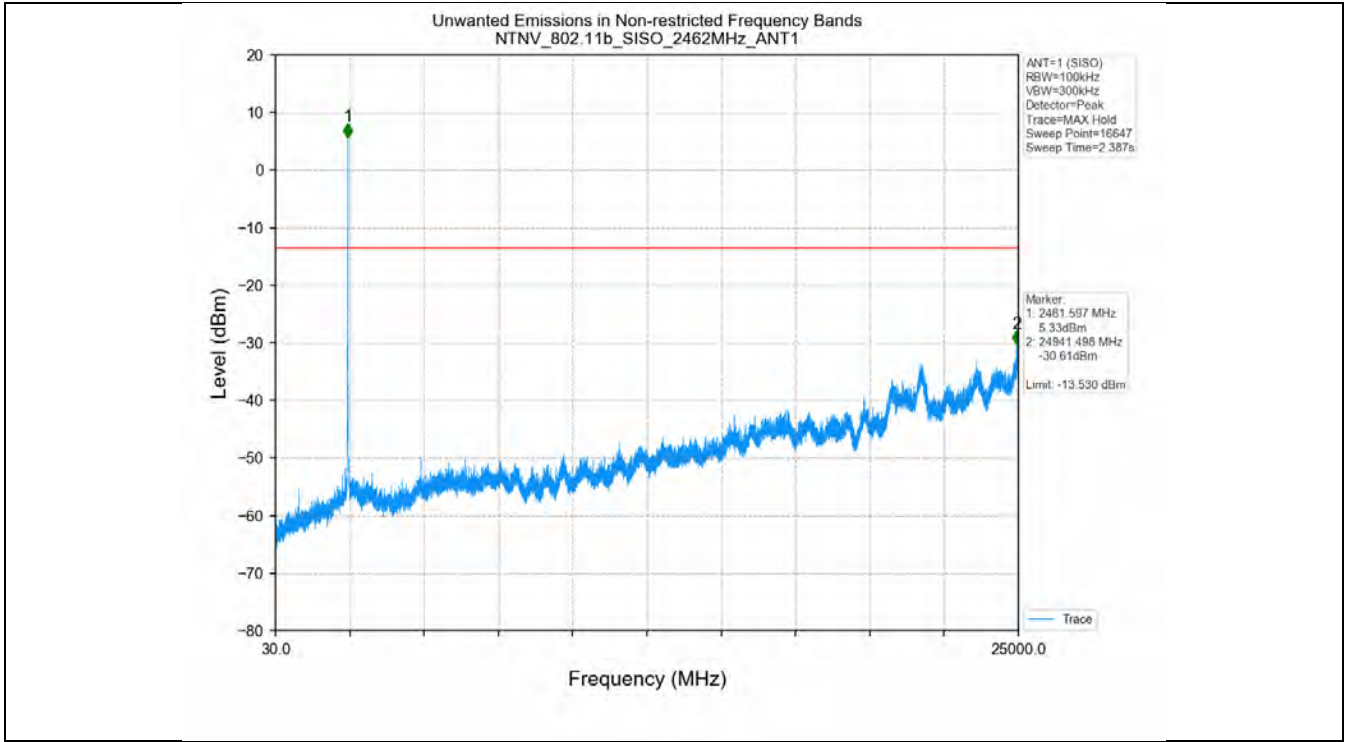
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2412MHz_ANT2

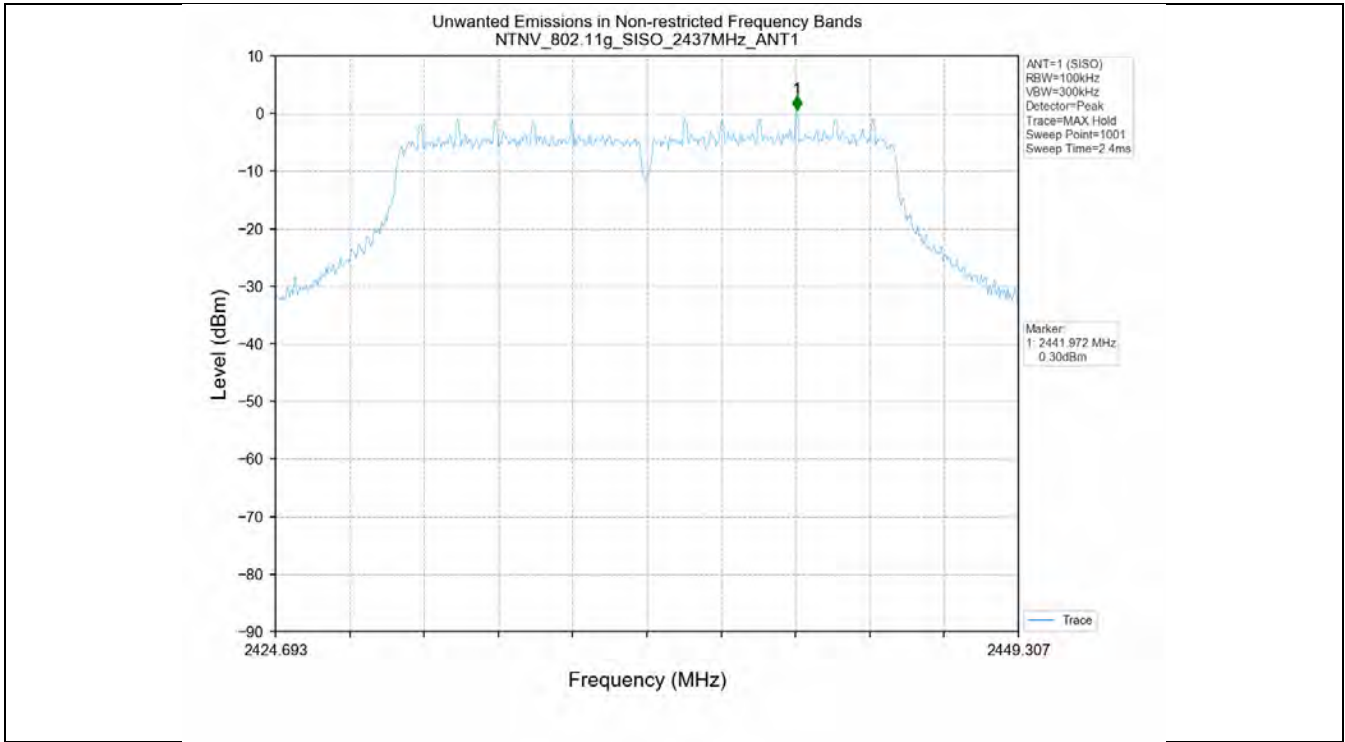
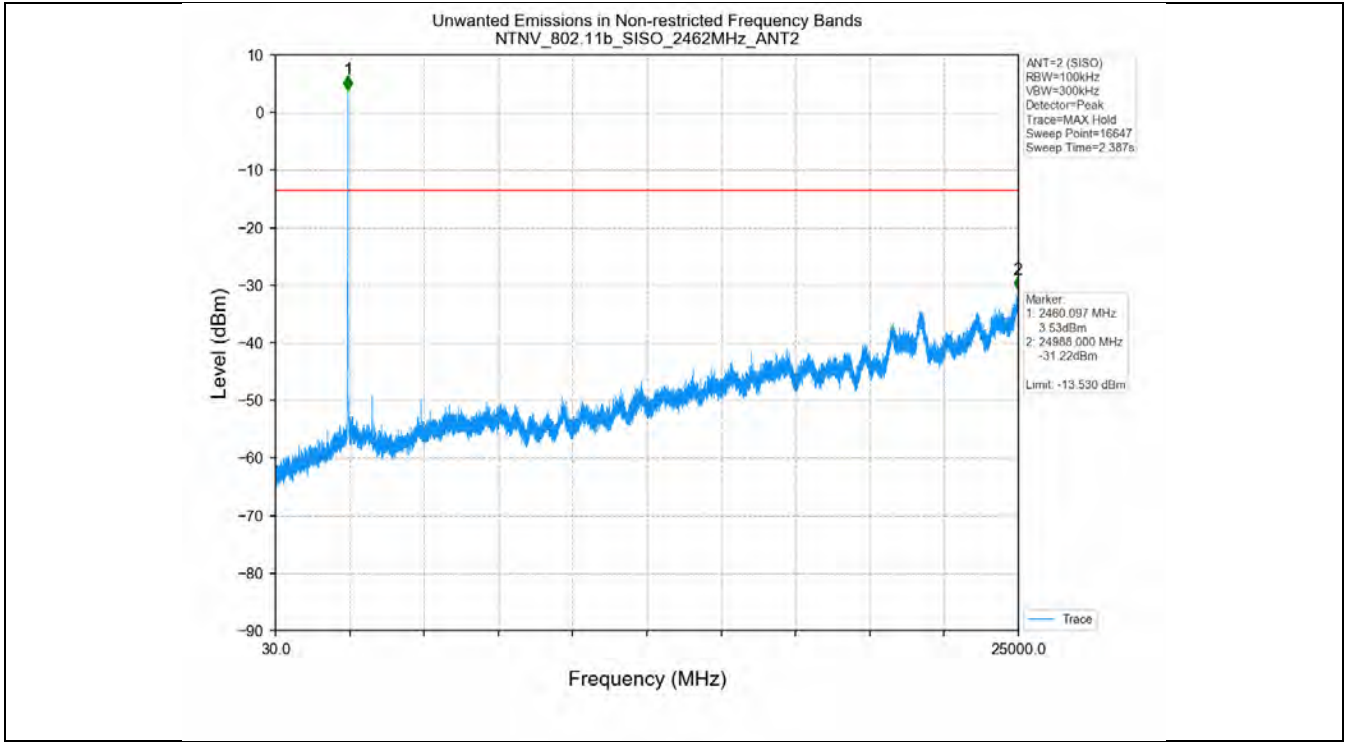


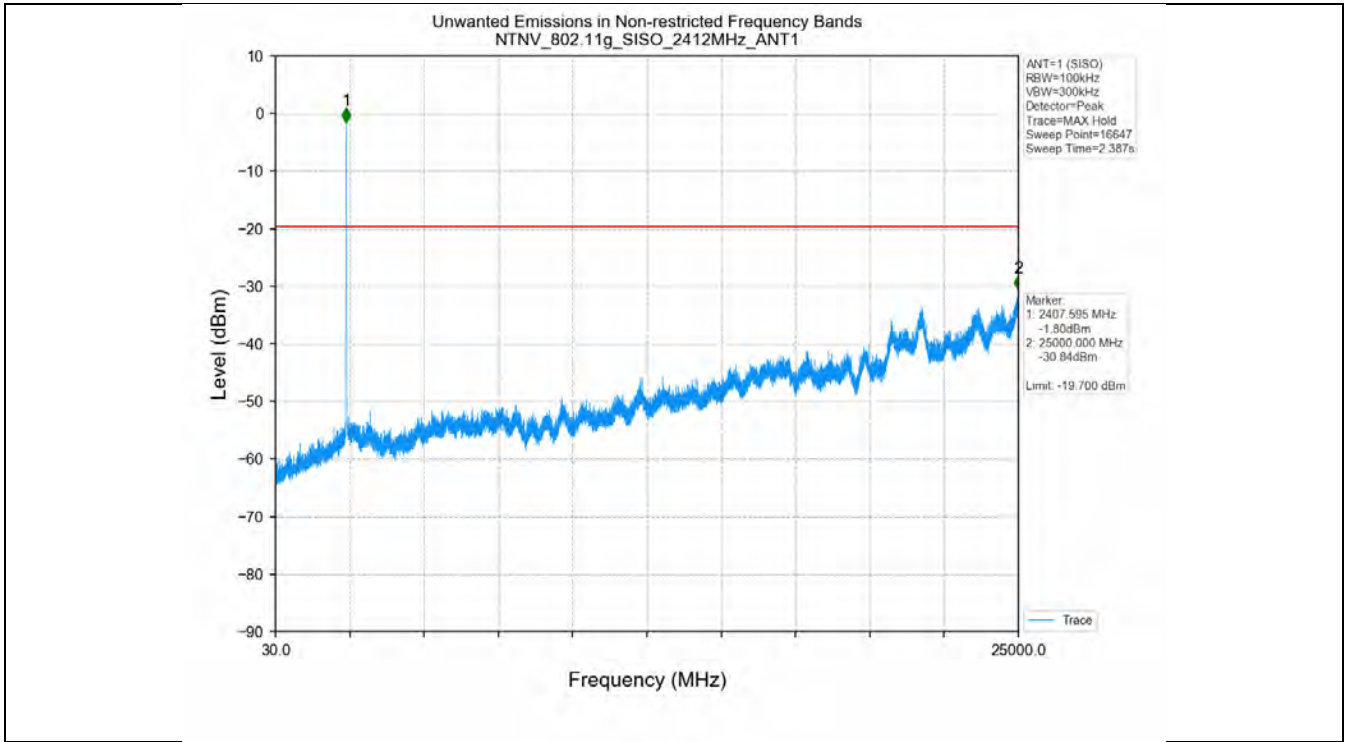
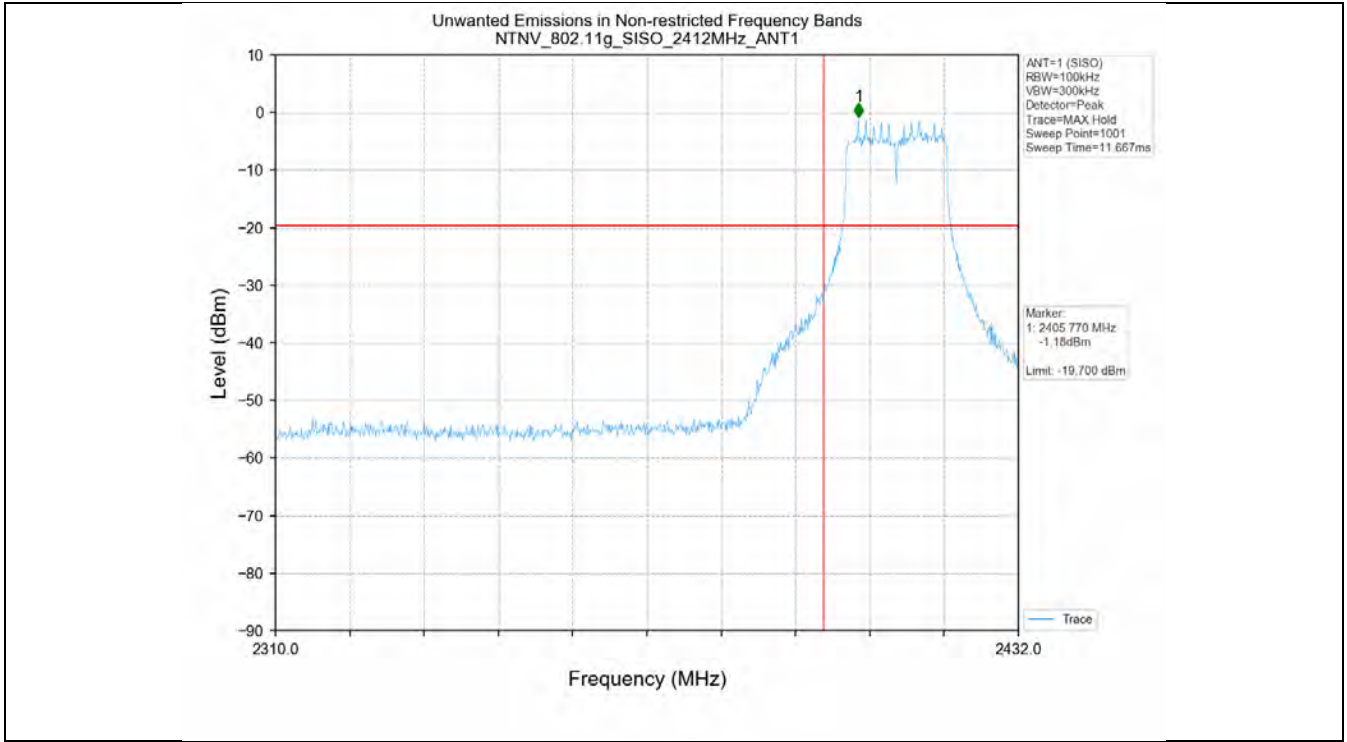
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2437MHz_ANT1

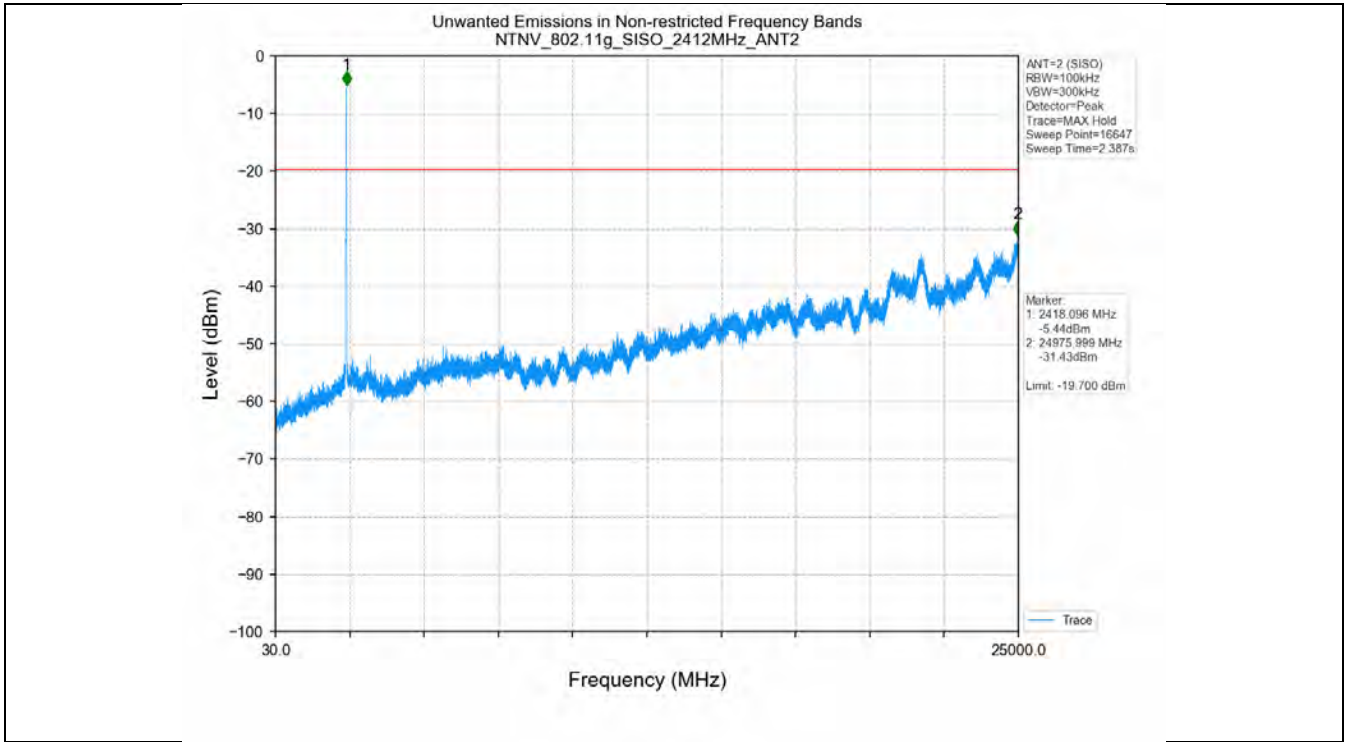
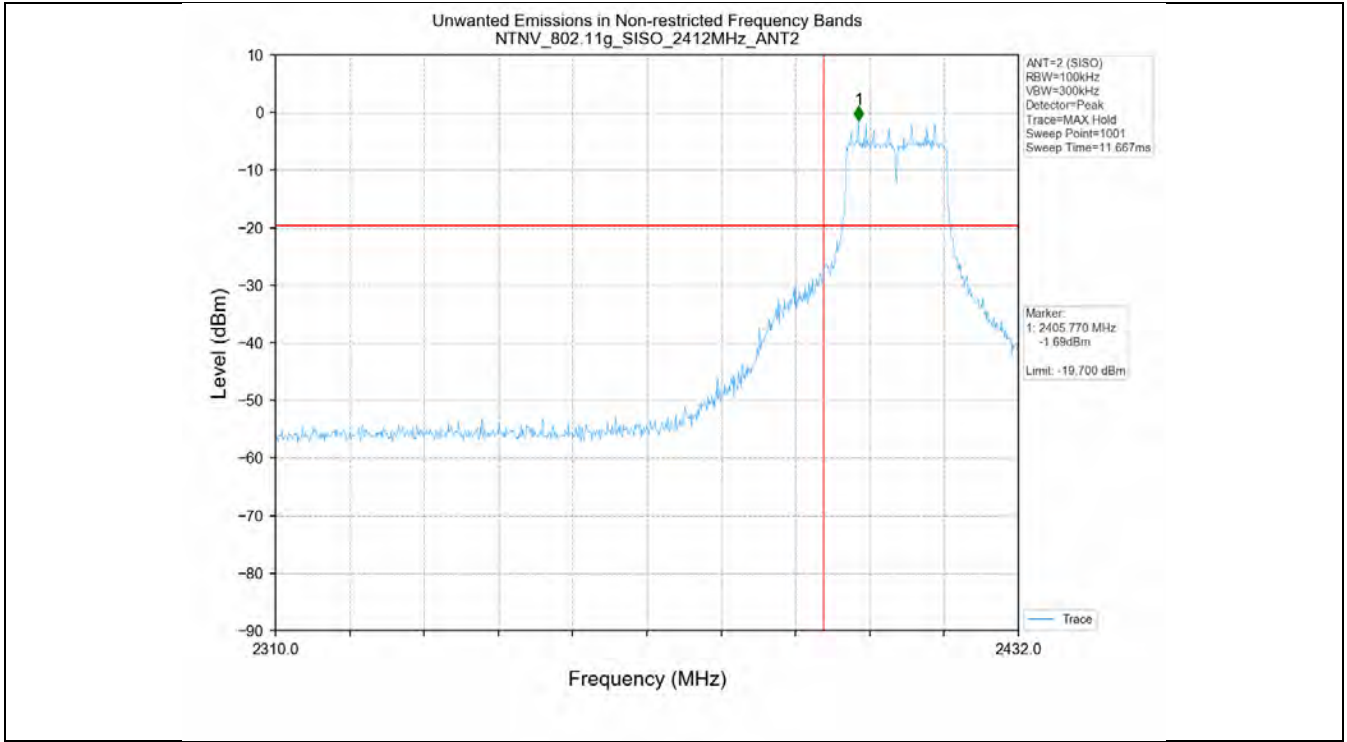


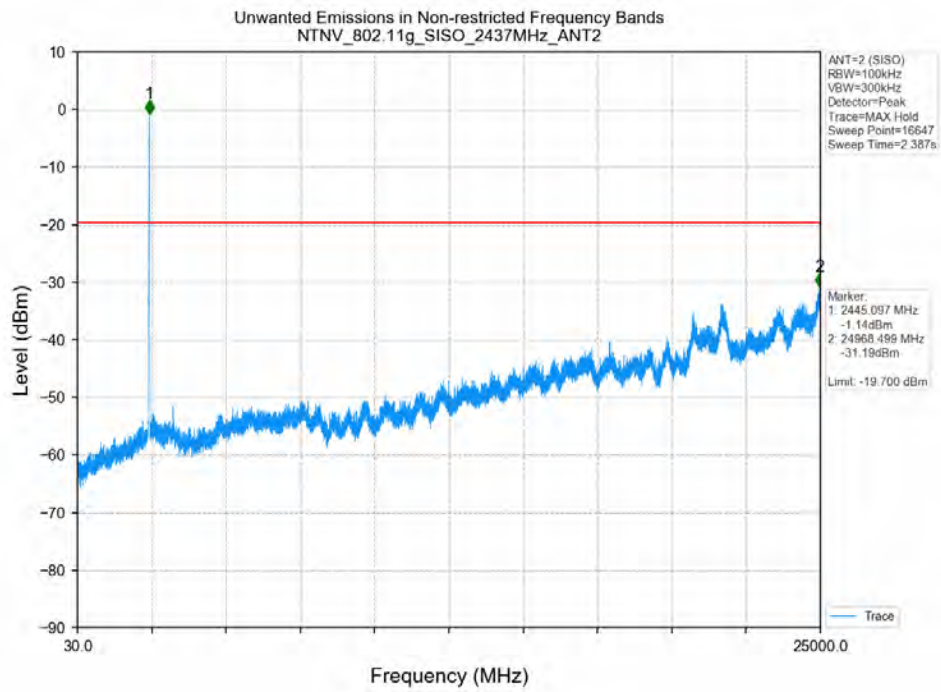
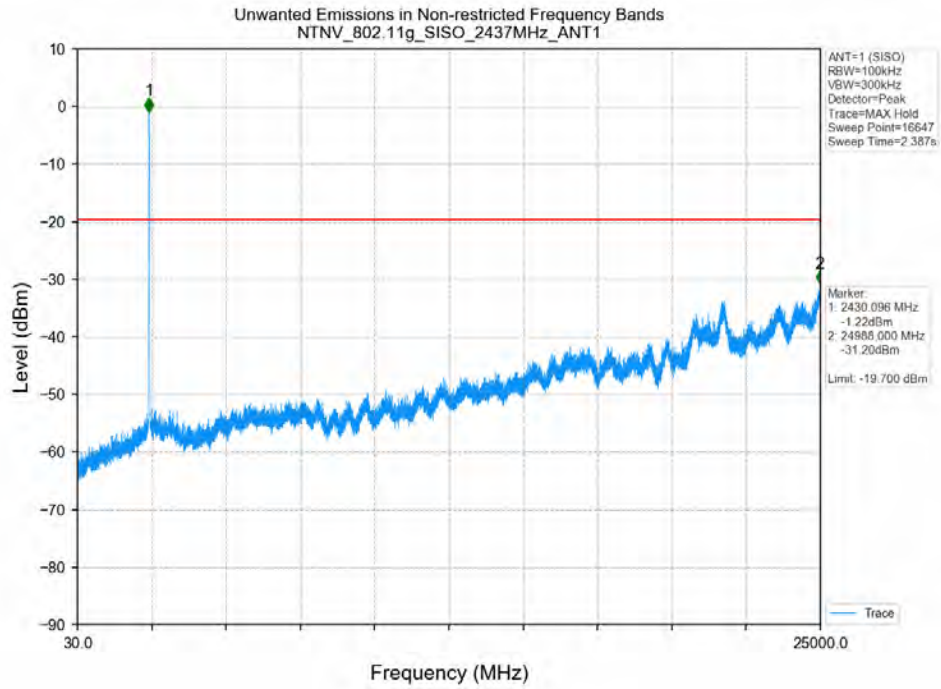


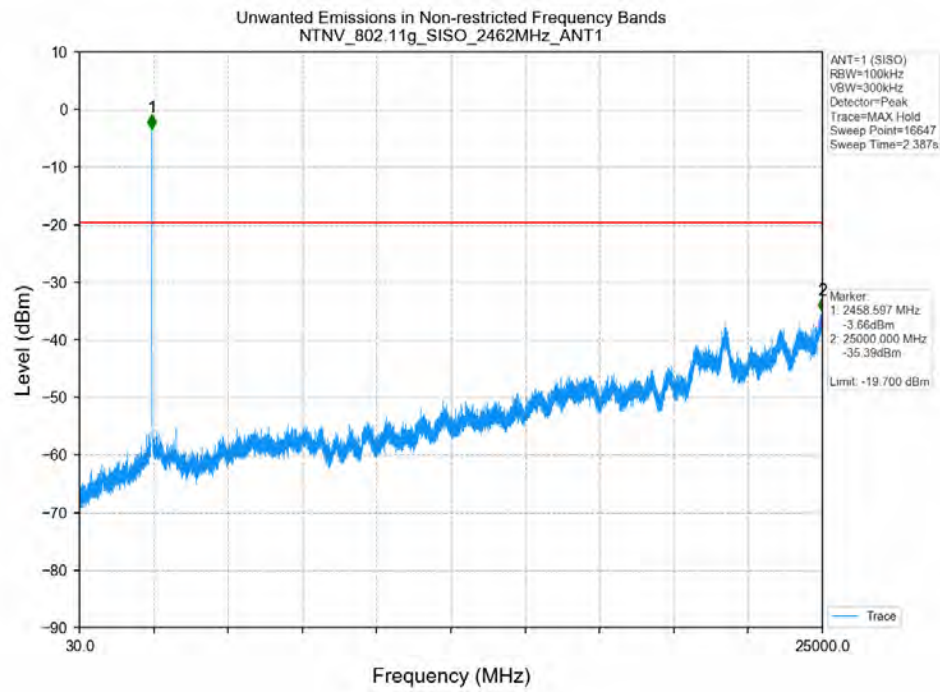
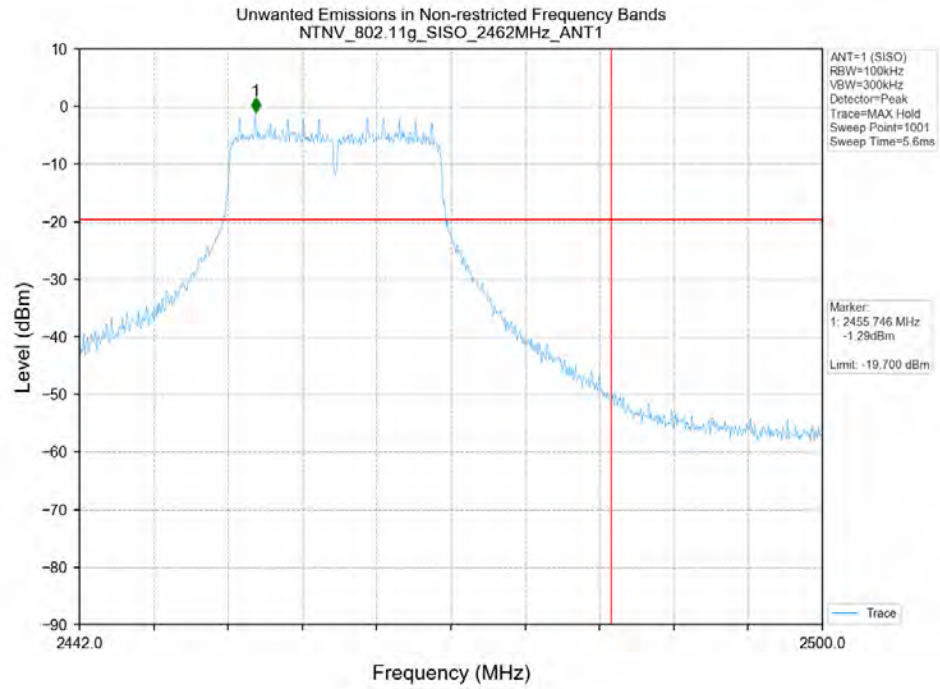


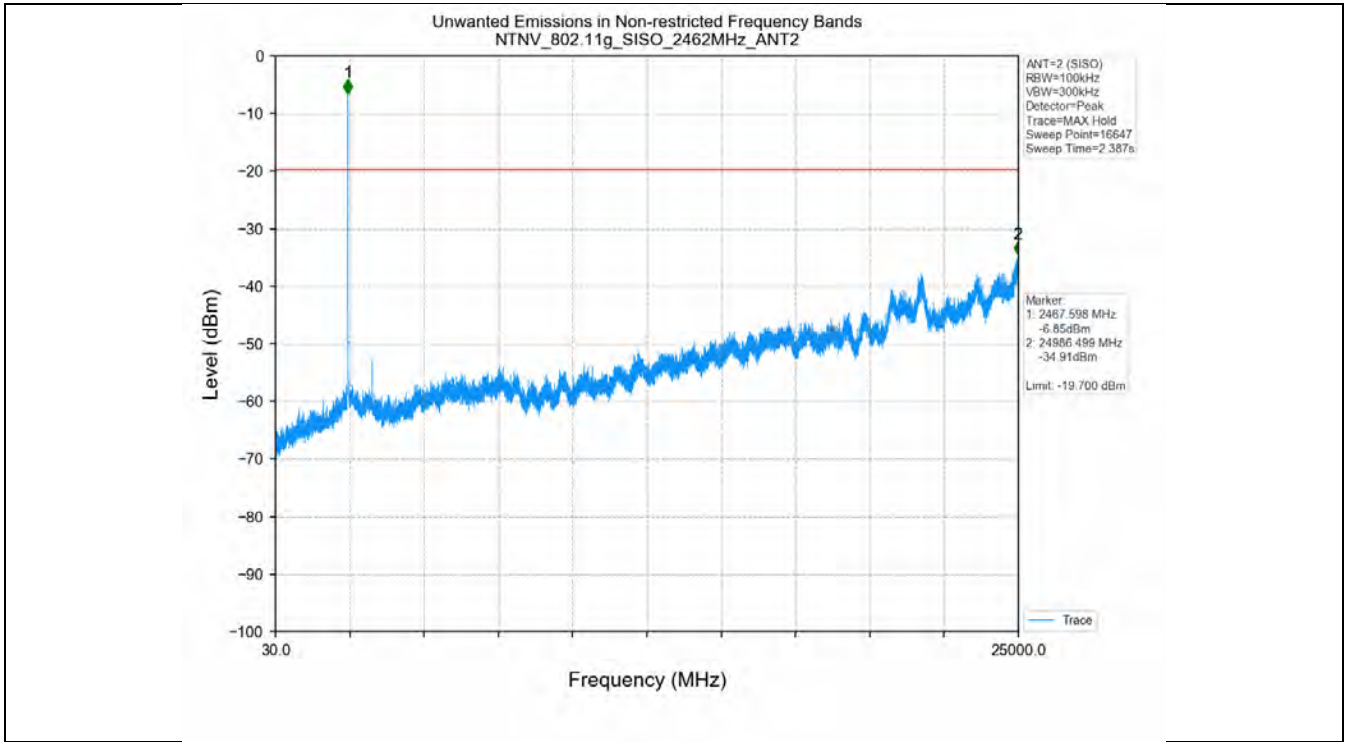
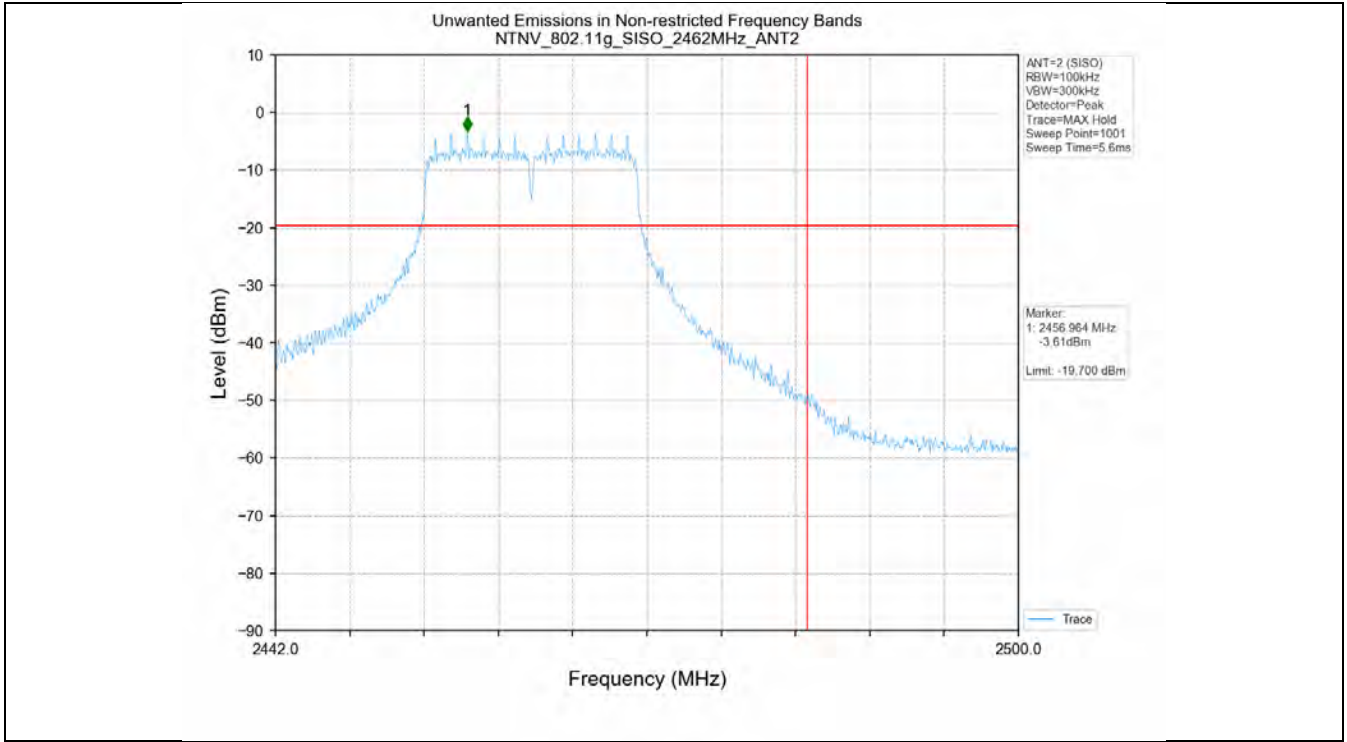


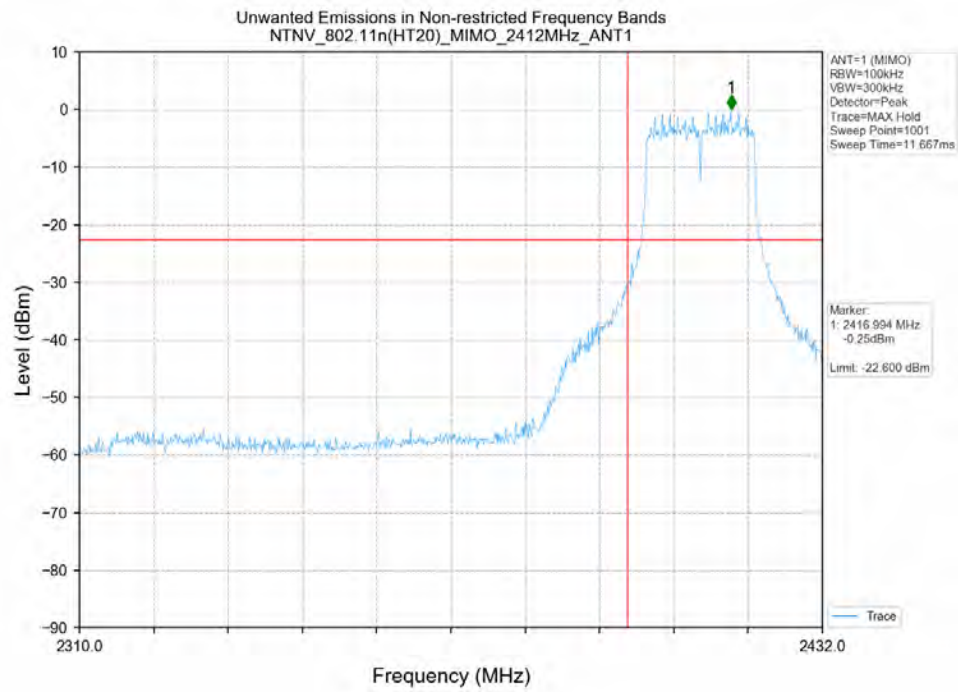
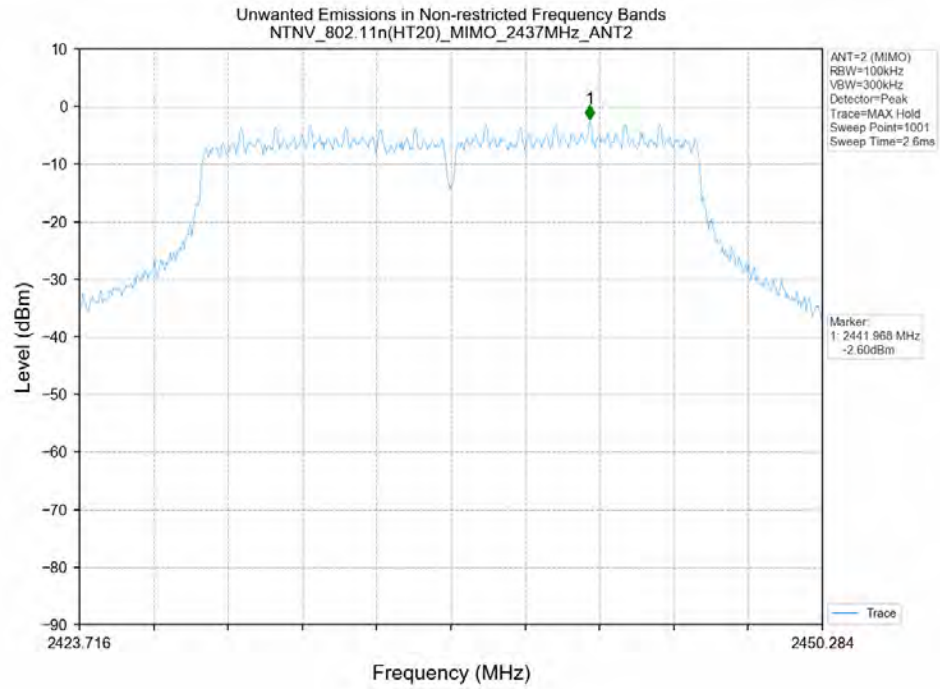




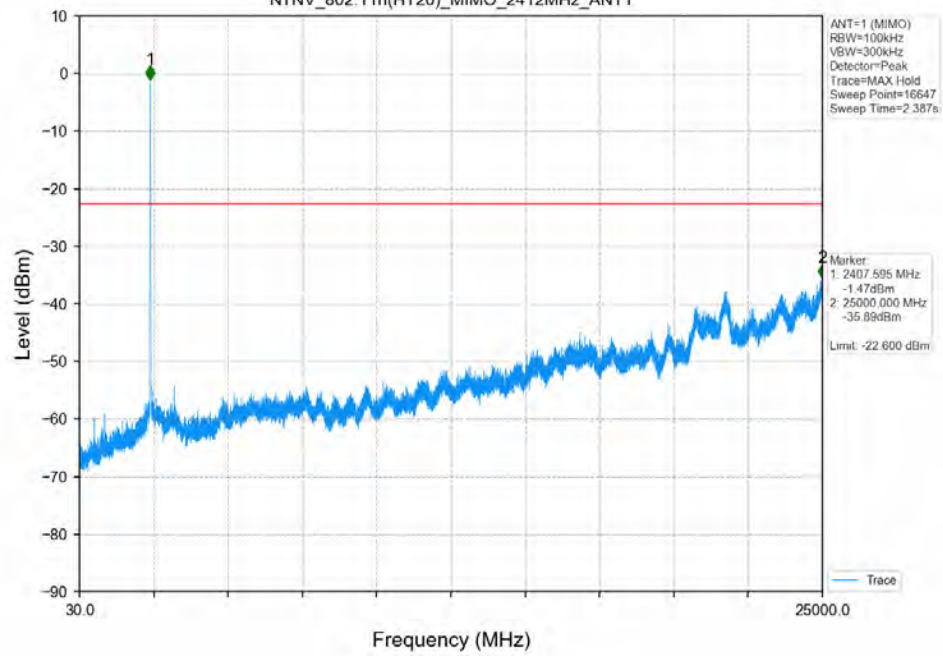




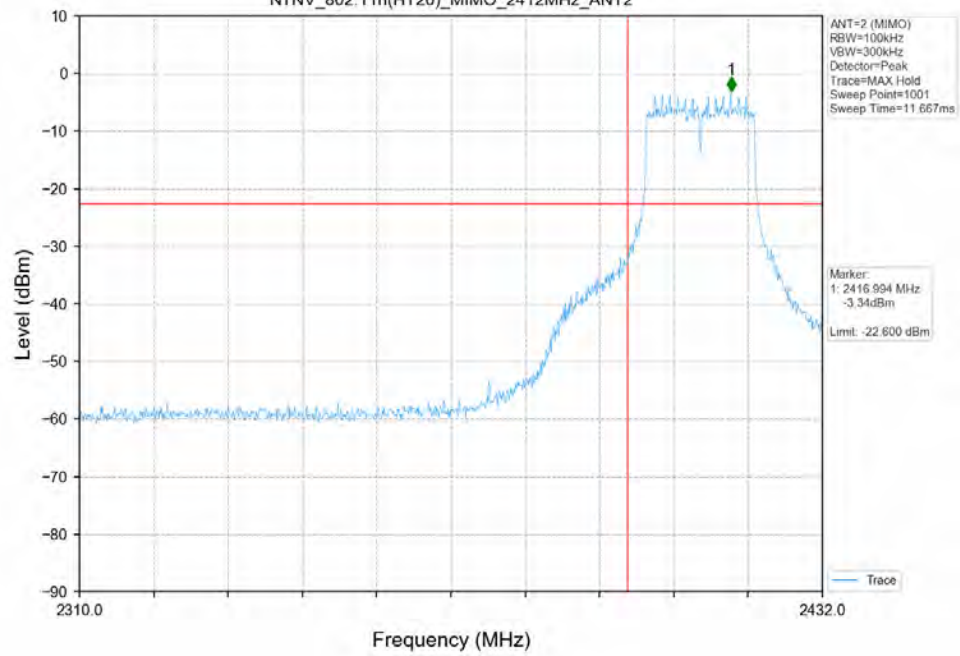


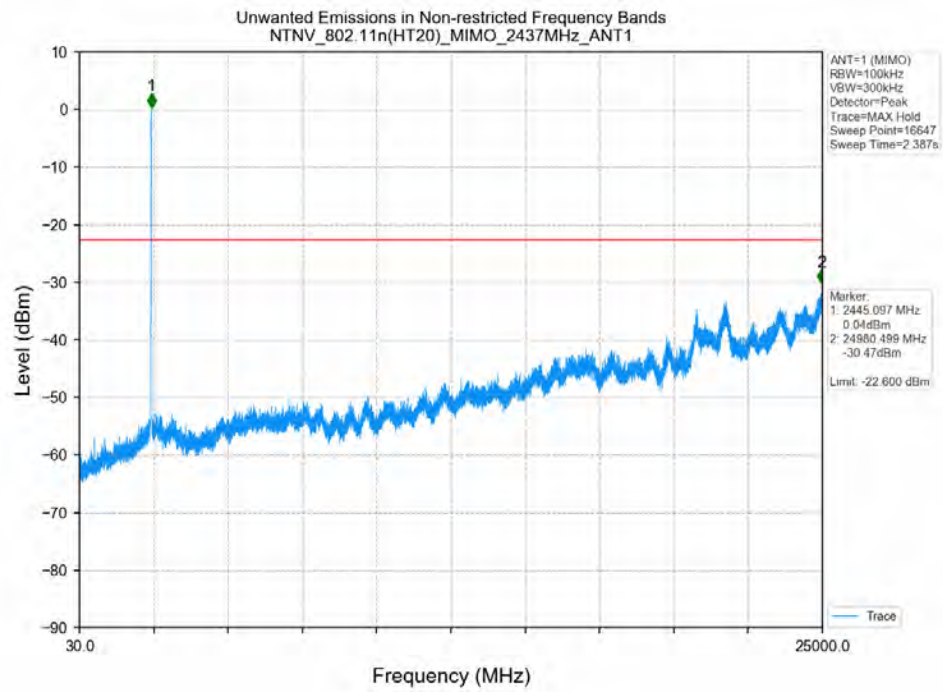
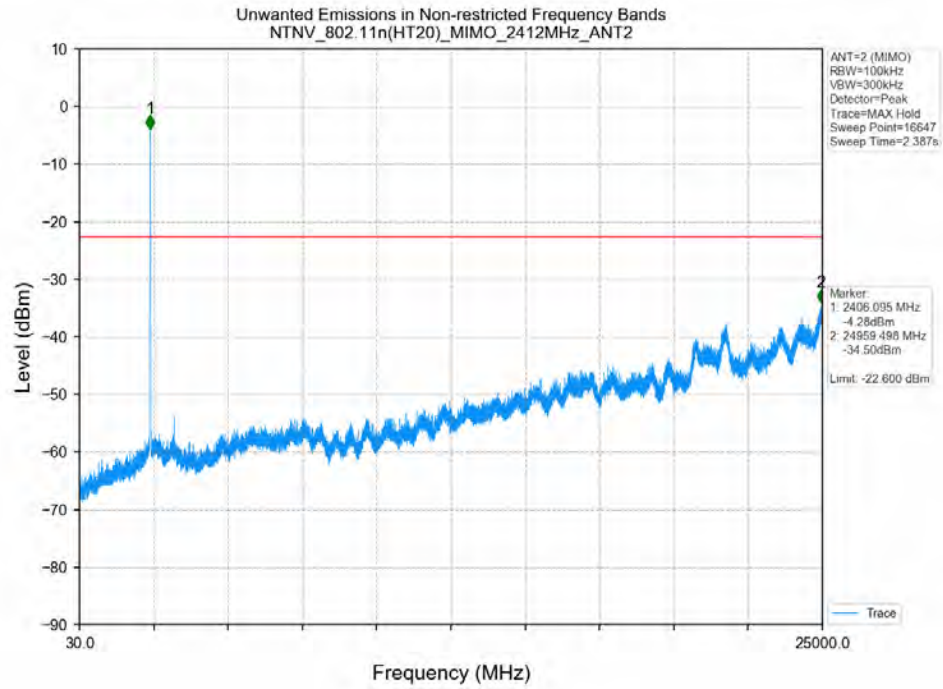


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2412MHz_ANT1

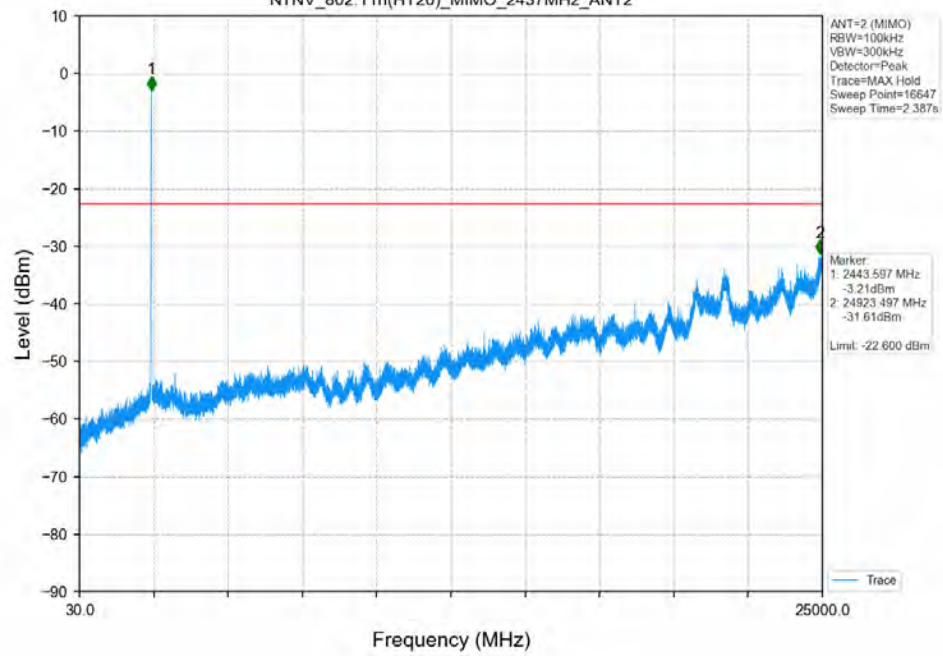


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2412MHz_ANT2

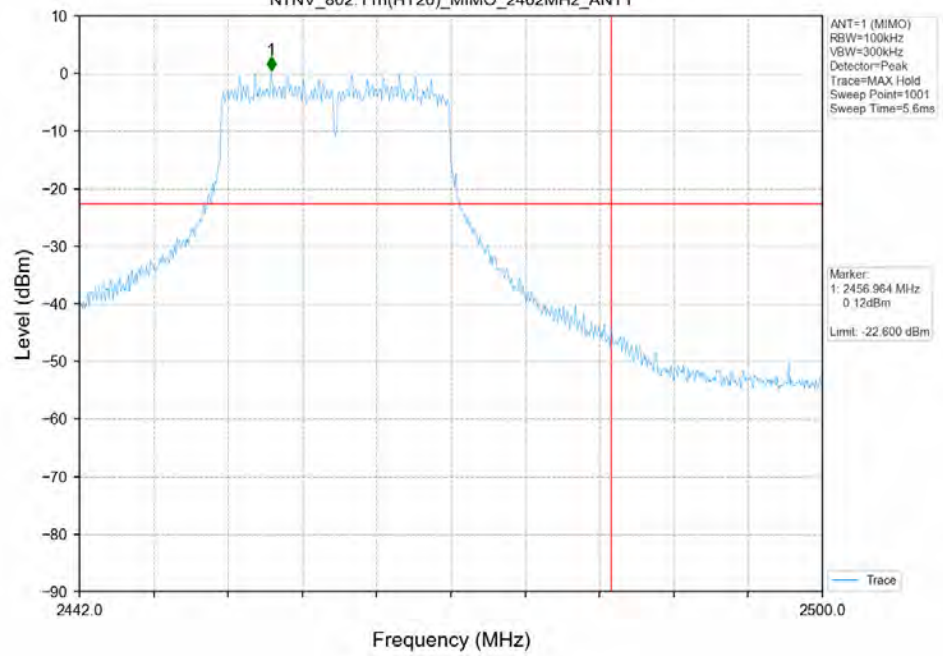


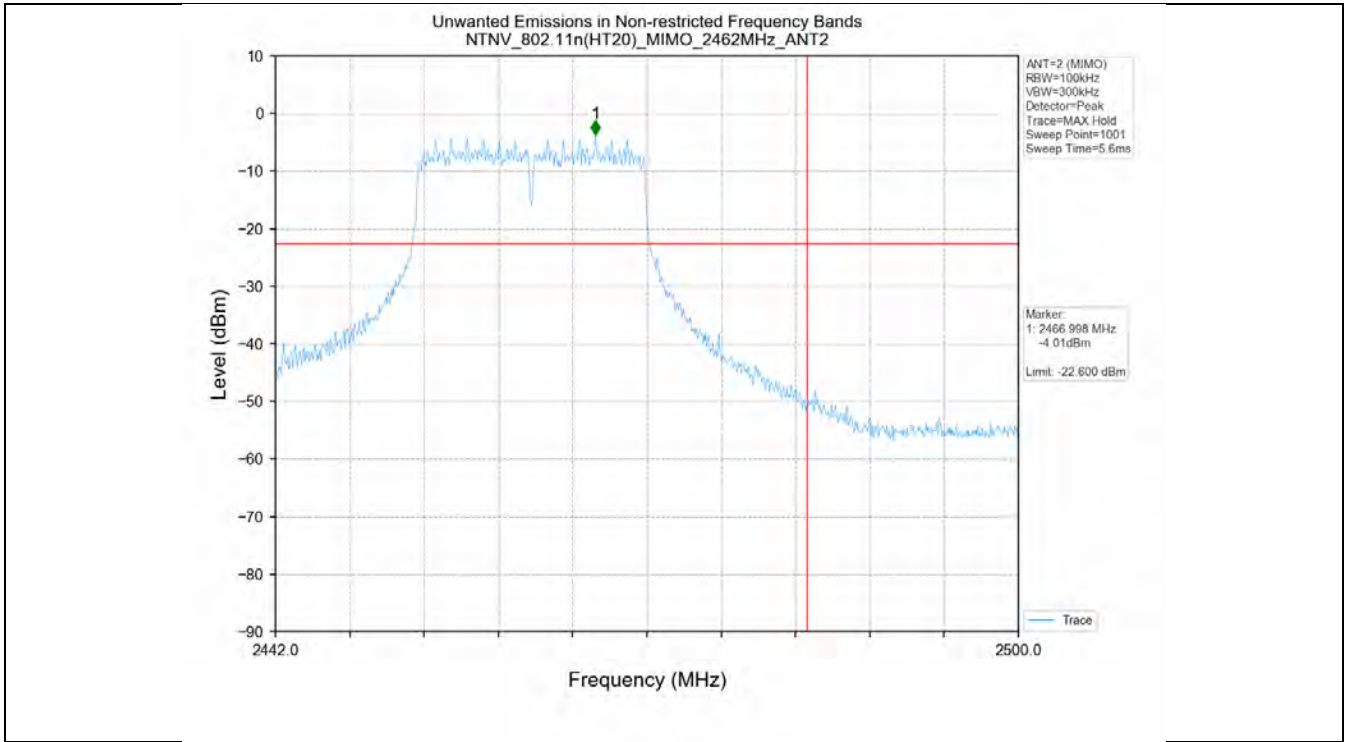
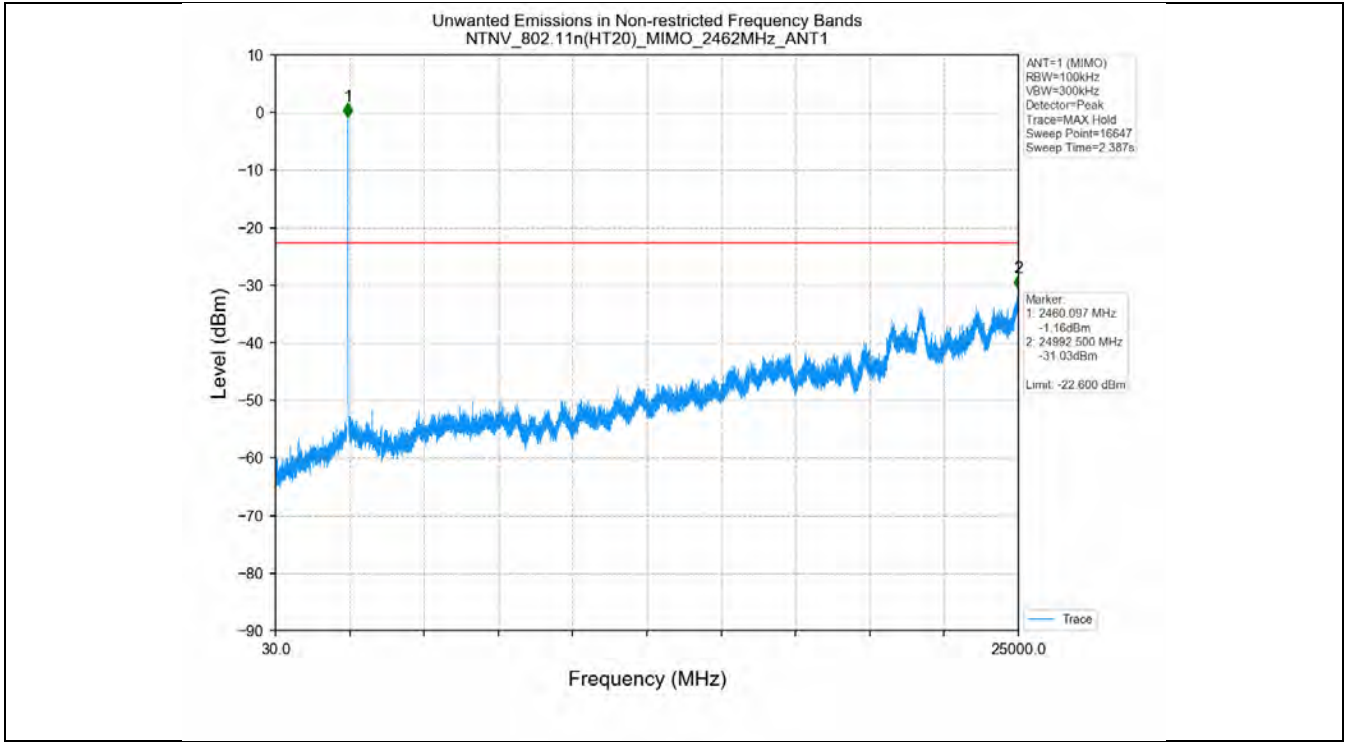


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2437MHz_ANT2



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2462MHz_ANT1





Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2462MHz_ANT2

