



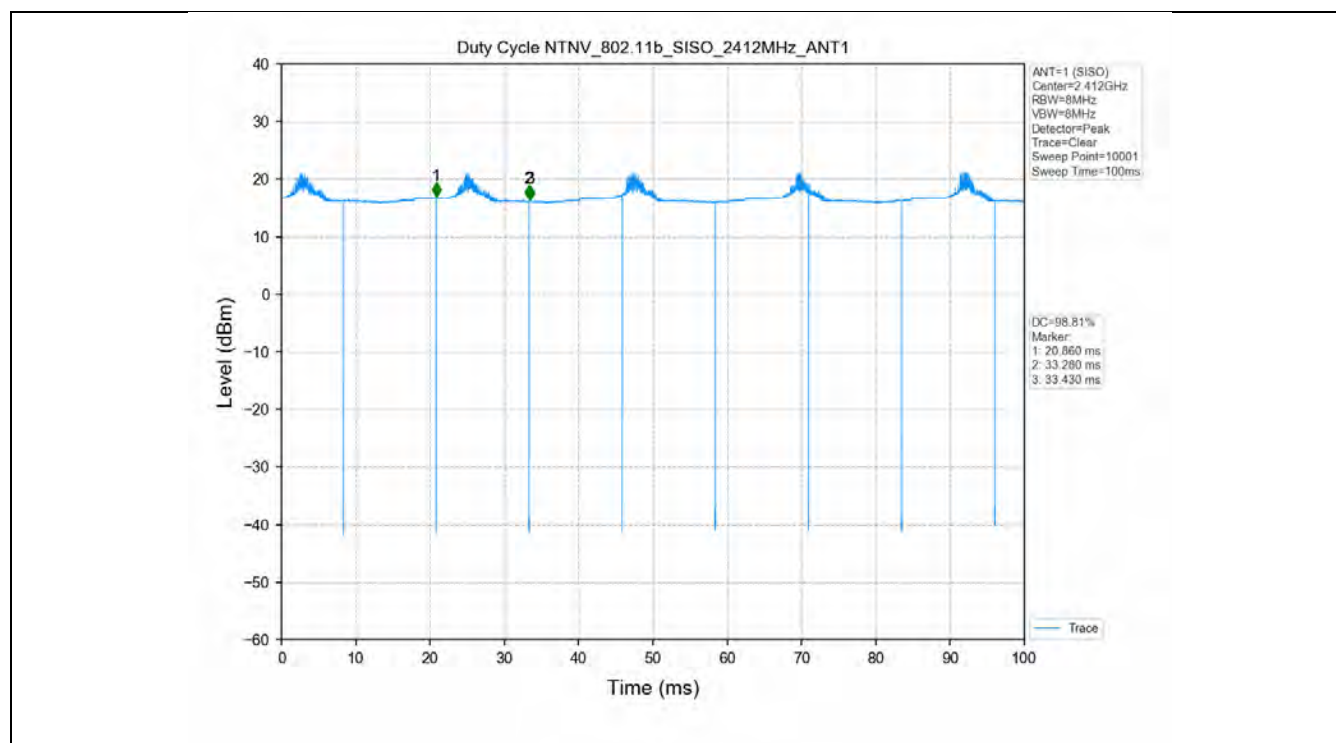
Appendix A for SHEM200400259301

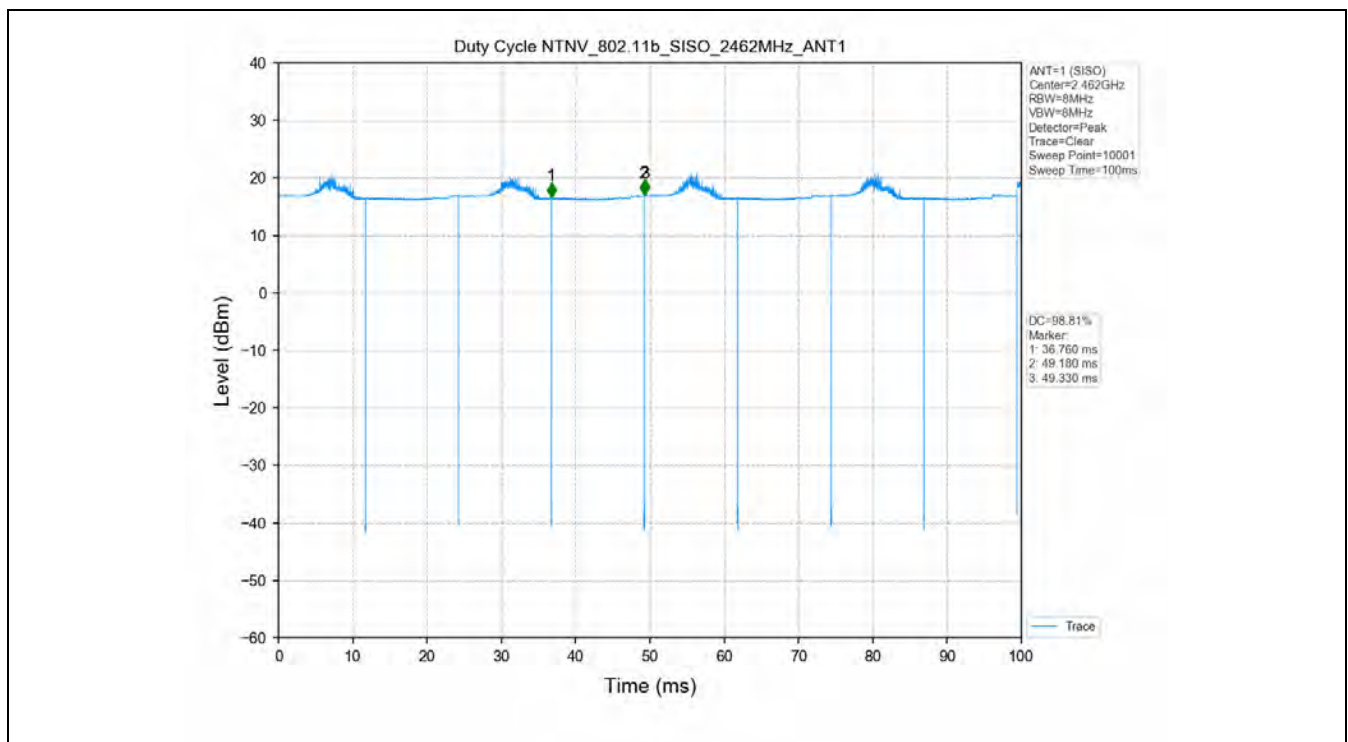
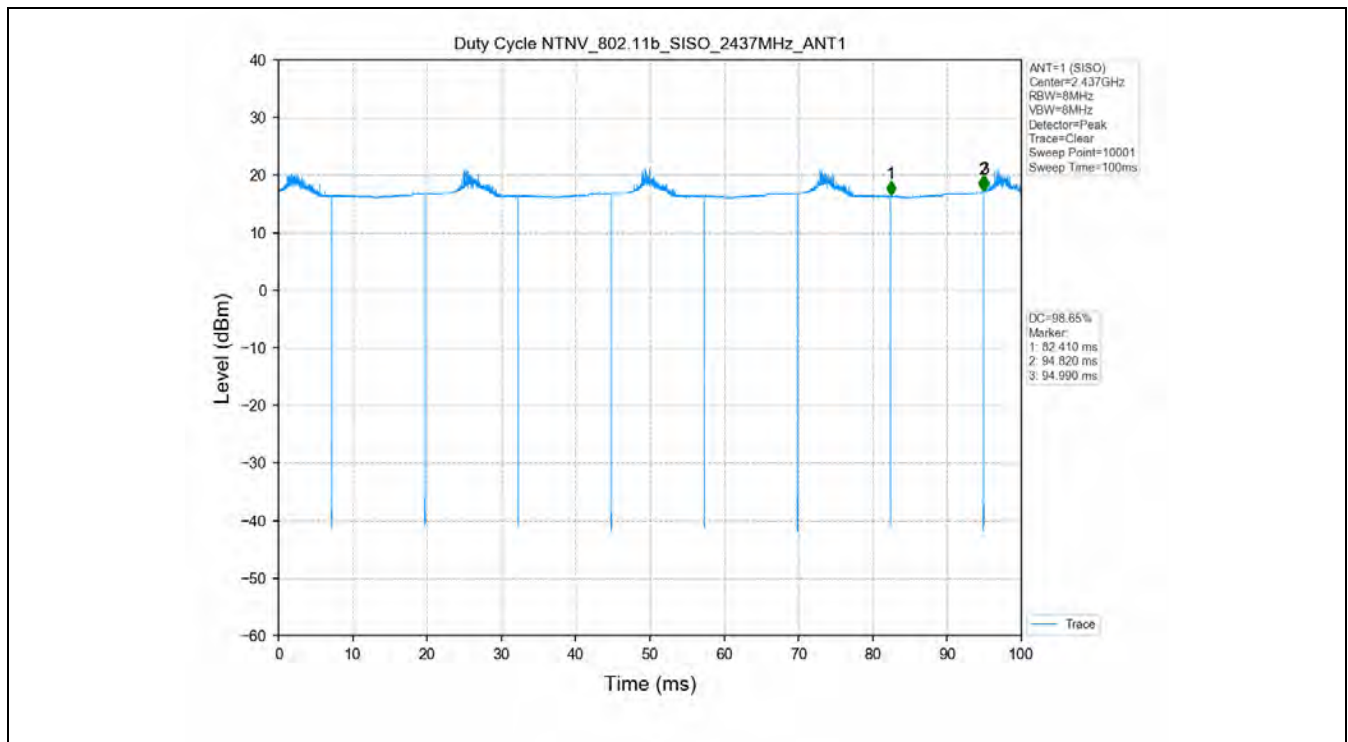
1. Duty Cycle

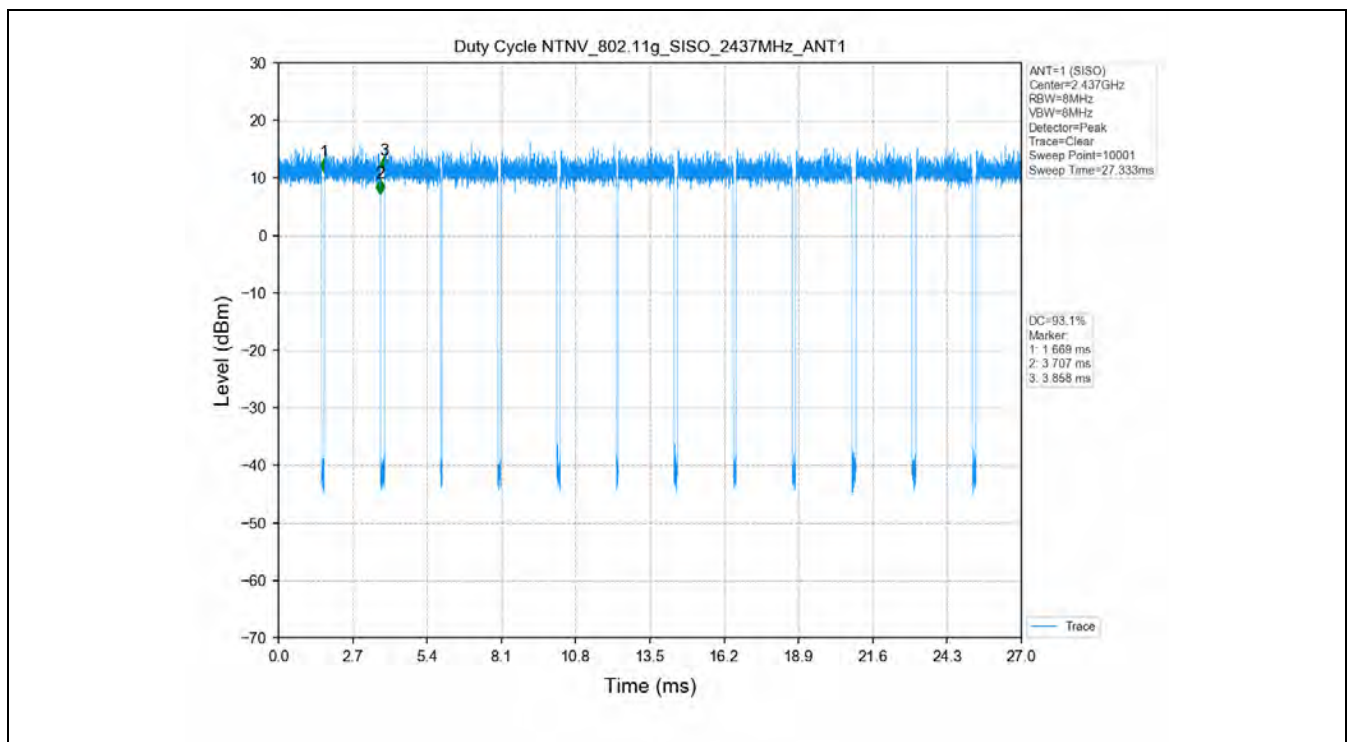
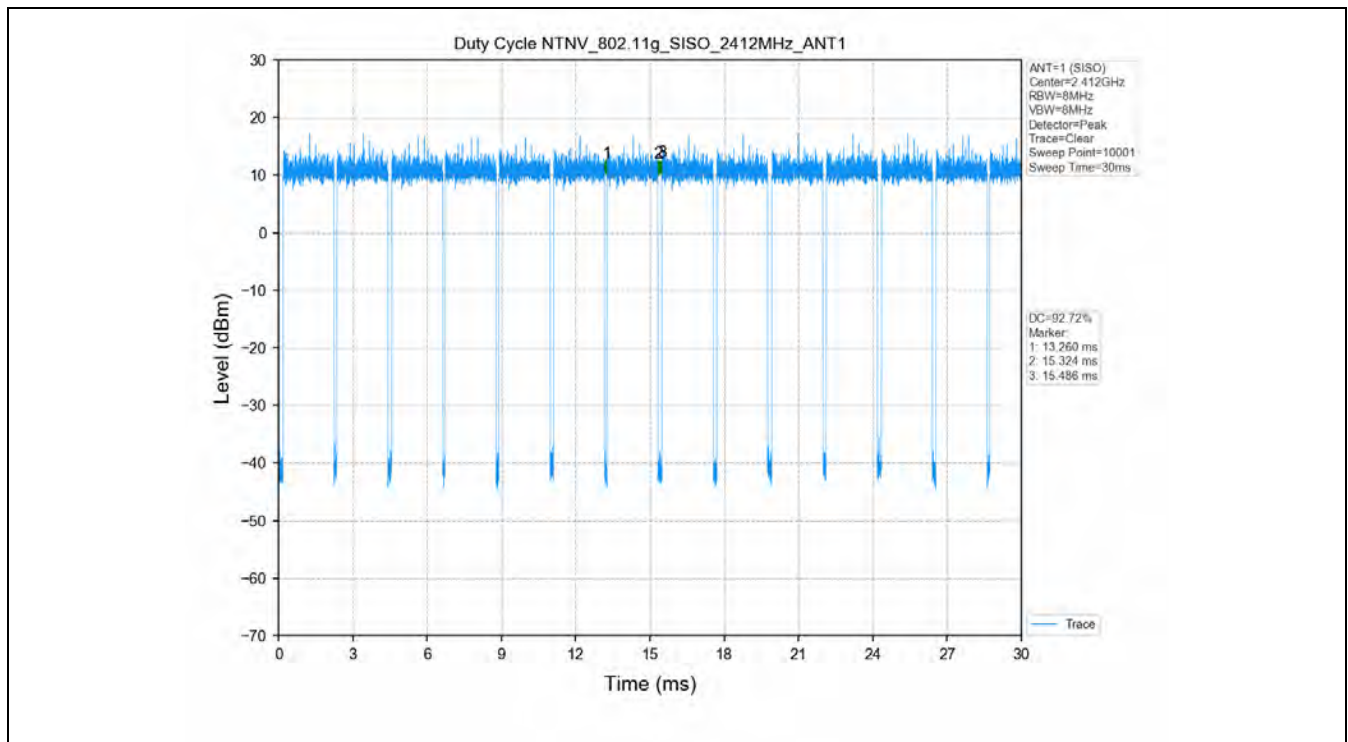
1.1 Test Result

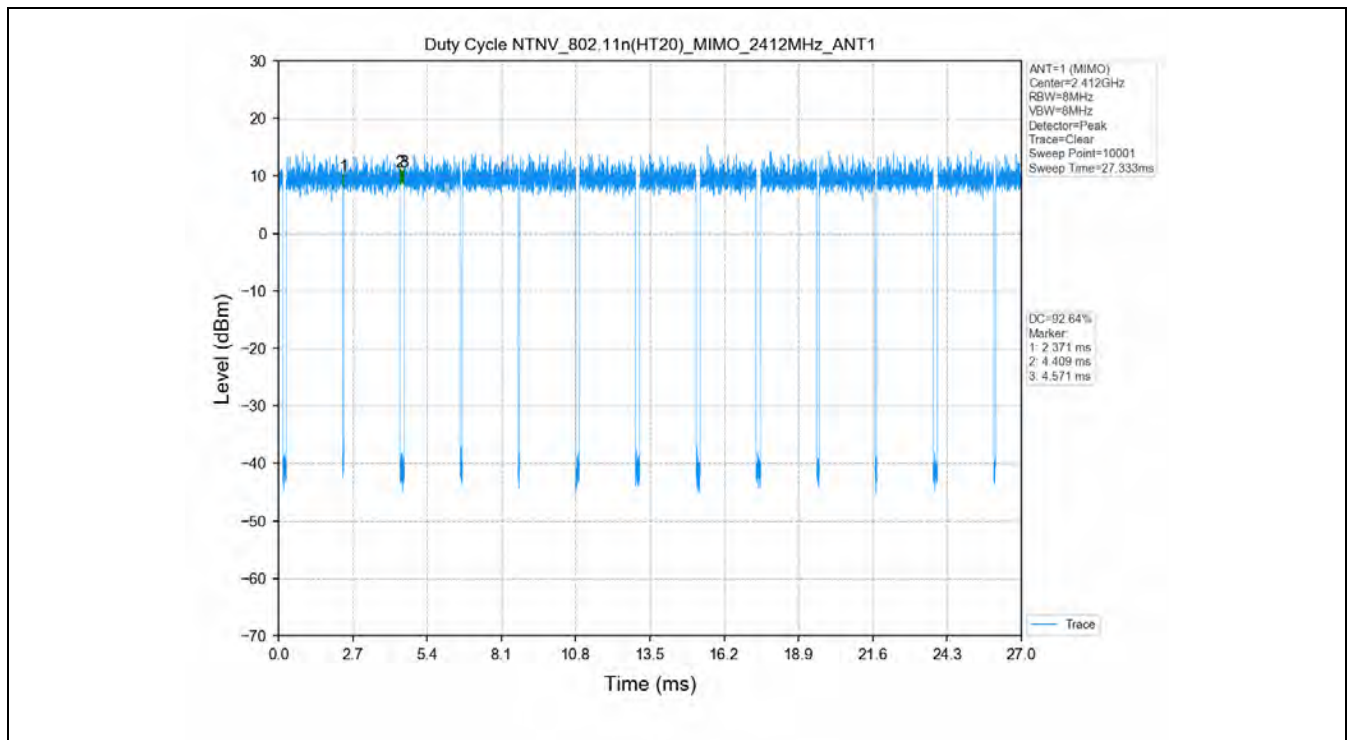
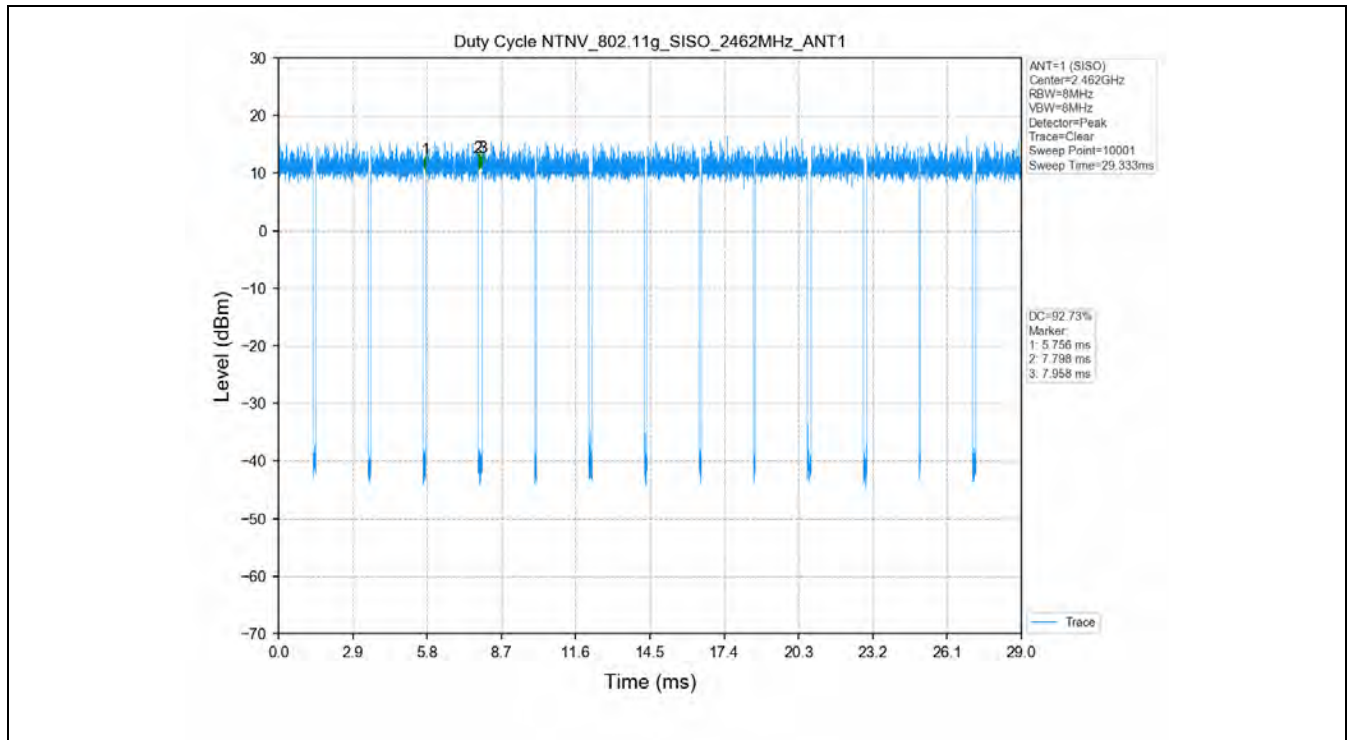
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.420	12.570	98.81	0.05
	2437	SISO	1	12.410	12.580	98.65	0.06
	2462	SISO	1	12.420	12.570	98.81	0.05
802.11g	2412	SISO	1	2.064	2.226	92.72	0.33
	2437	SISO	1	2.038	2.189	93.10	0.31
	2462	SISO	1	2.042	2.202	92.73	0.33
802.11n(HT20)	2412	MIMO	1	2.038	2.200	92.64	0.33
	2437	MIMO	1	1.920	2.091	91.82	0.37
	2462	MIMO	1	1.920	2.044	93.93	0.27
802.11n(HT40)	2422	MIMO	1	0.920	1.086	84.71	0.72
	2437	MIMO	1	0.944	1.088	86.76	0.62
	2452	MIMO	1	0.943	1.114	84.65	0.72

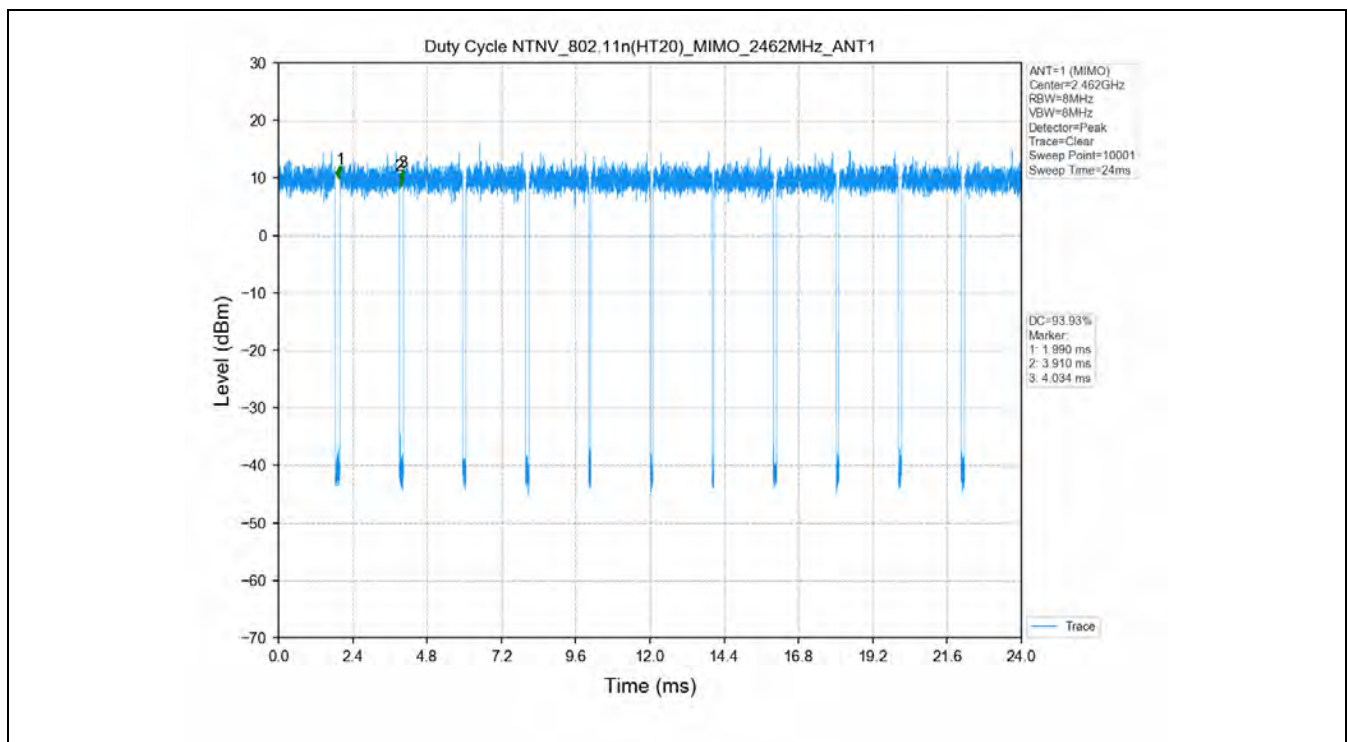
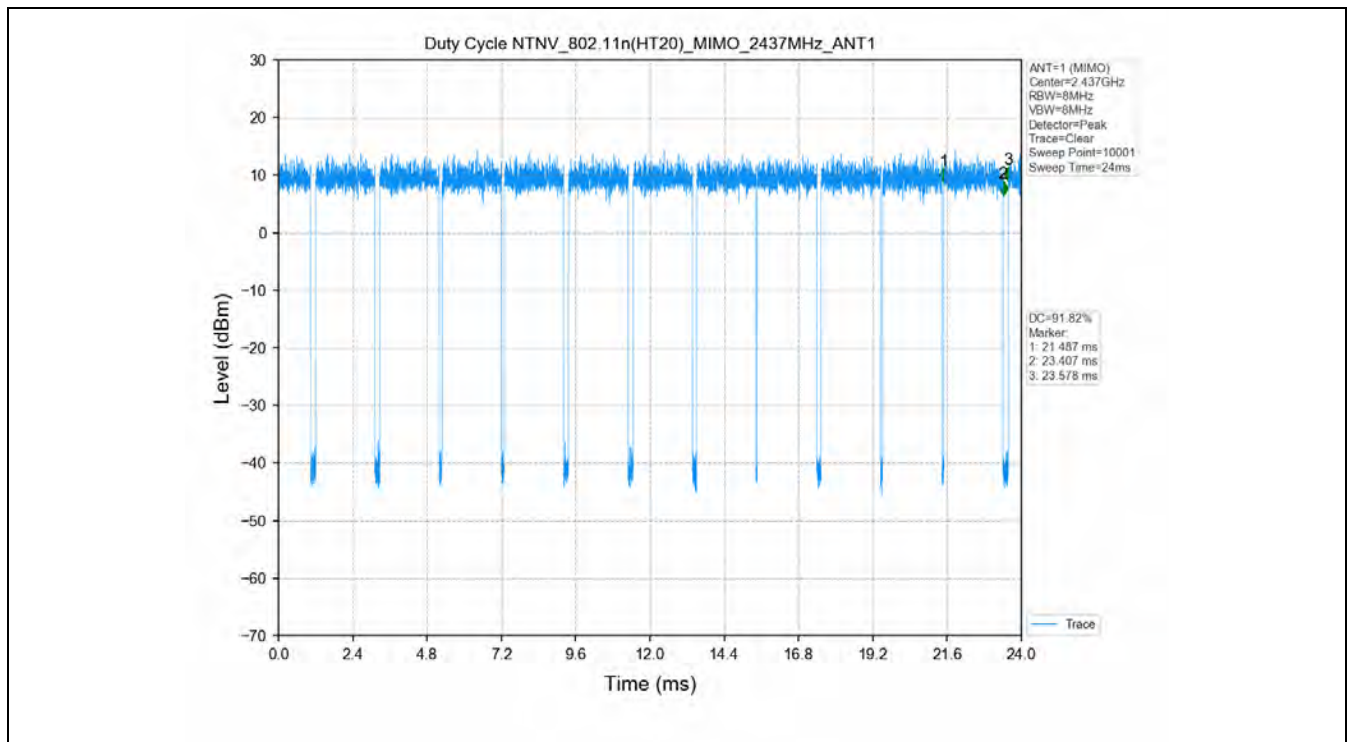
1.2 Test Graph

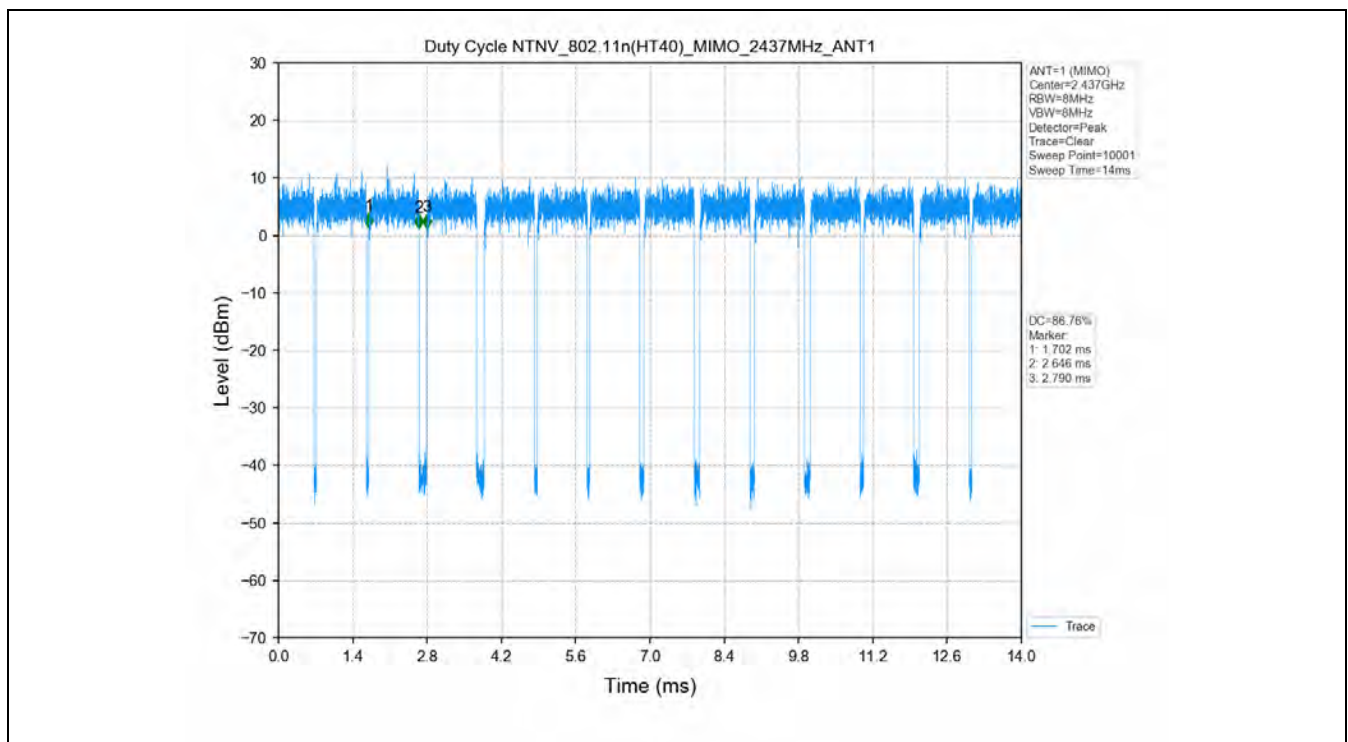
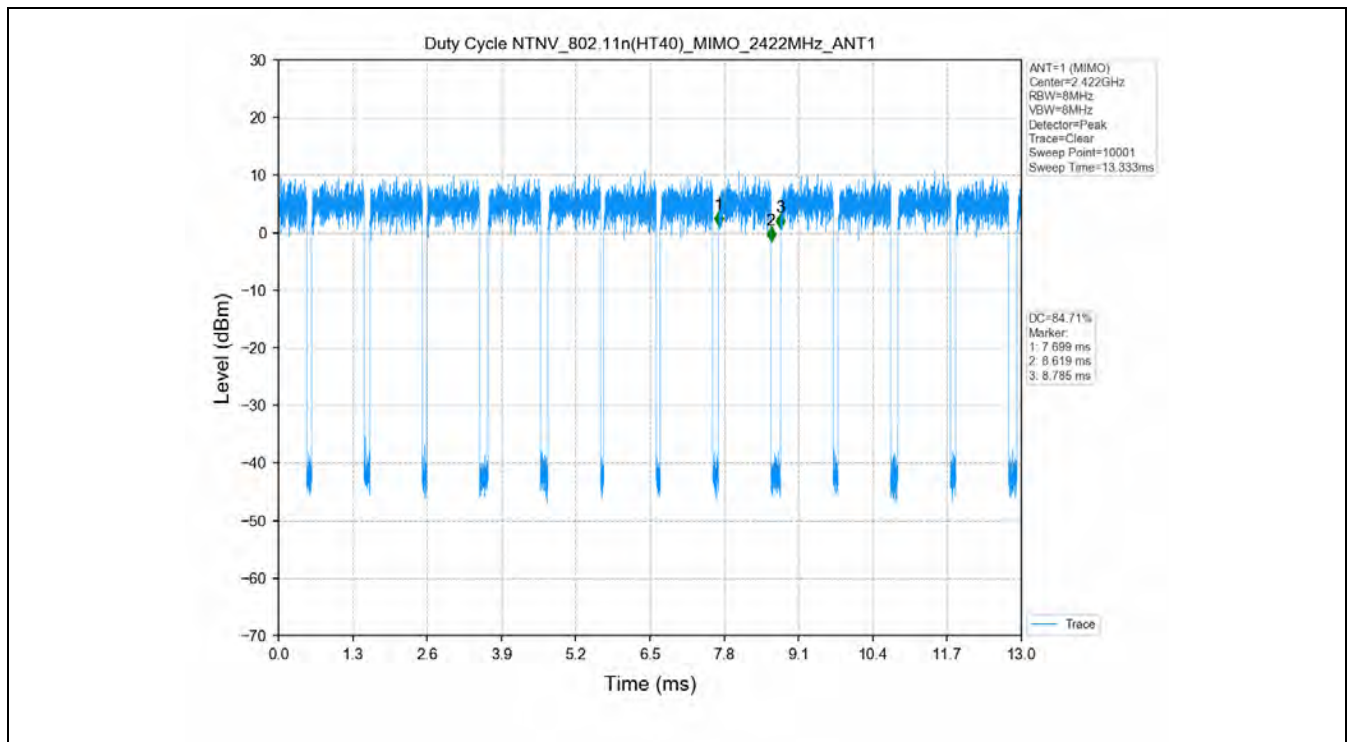


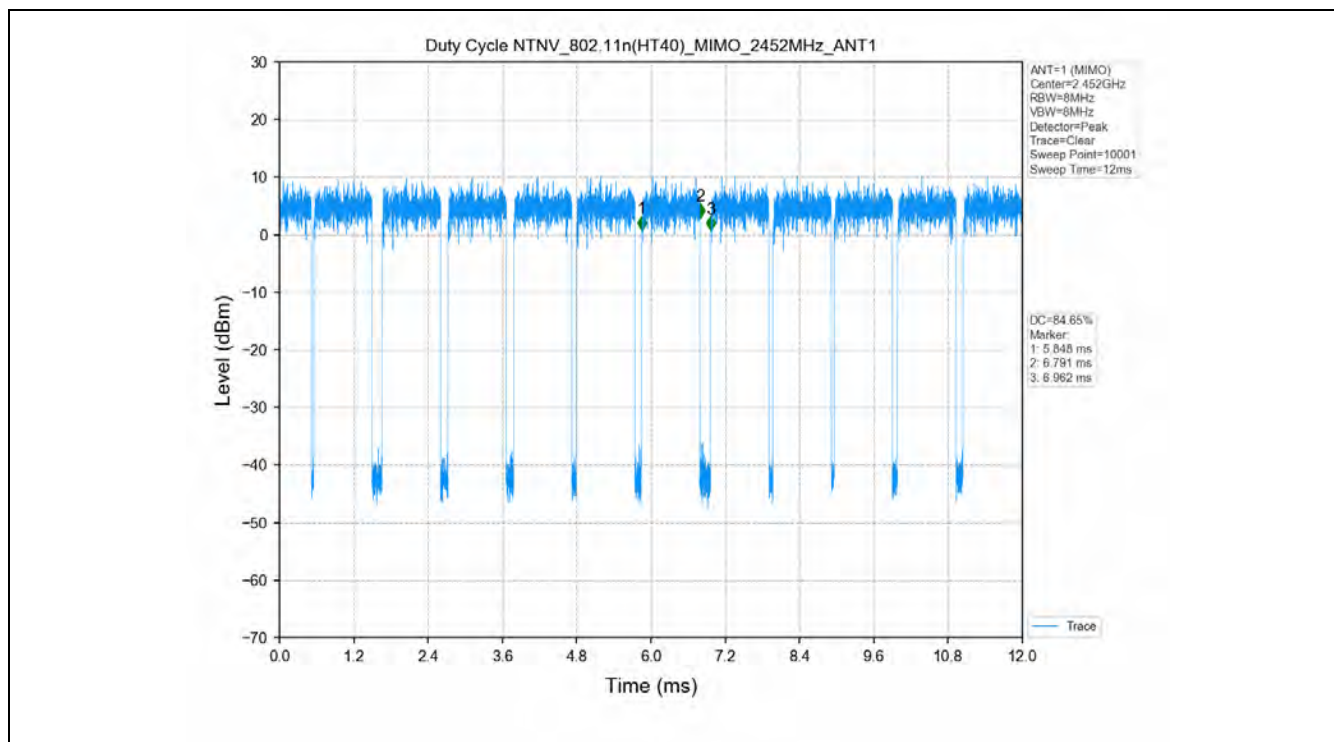












2. Bandwidth

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	9.605	≥ 0.5	PASS
			2	10.092	≥ 0.5	PASS
	2437	SISO	1	10.088	≥ 0.5	PASS
			2	9.156	≥ 0.5	PASS
	2462	SISO	1	9.612	≥ 0.5	PASS
			2	10.099	≥ 0.5	PASS
802.11g	2412	SISO	1	16.437	≥ 0.5	PASS
			2	16.426	≥ 0.5	PASS
	2437	SISO	1	16.403	≥ 0.5	PASS
			2	16.407	≥ 0.5	PASS
	2462	SISO	1	16.398	≥ 0.5	PASS
			2	16.410	≥ 0.5	PASS
802.11n(HT20)	2412	MIMO	1	16.401	≥ 0.5	PASS
			2	16.406	≥ 0.5	PASS
	2437	MIMO	1	17.631	≥ 0.5	PASS
			2	17.606	≥ 0.5	PASS
	2462	MIMO	1	17.635	≥ 0.5	PASS
			2	17.632	≥ 0.5	PASS
802.11n(HT40)	2422	MIMO	1	35.862	≥ 0.5	PASS
			2	35.826	≥ 0.5	PASS
	2437	MIMO	1	35.616	≥ 0.5	PASS

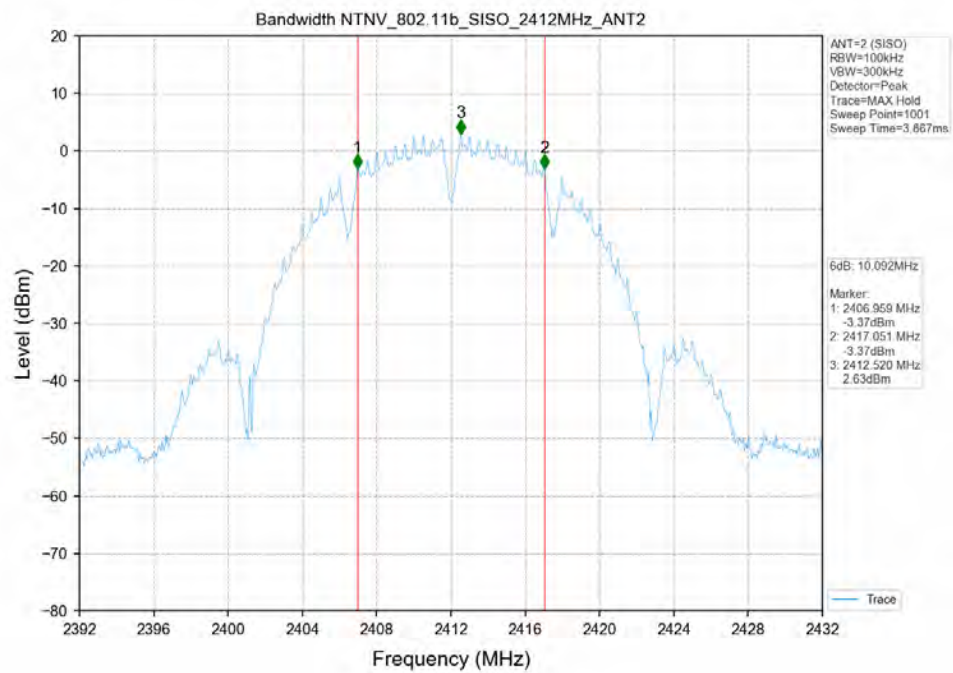
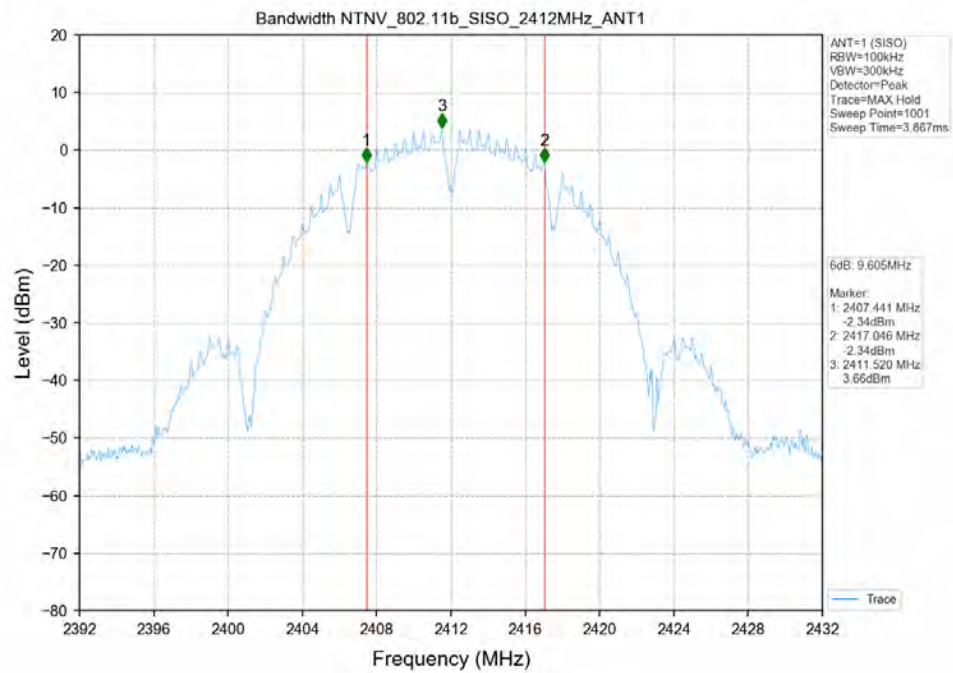


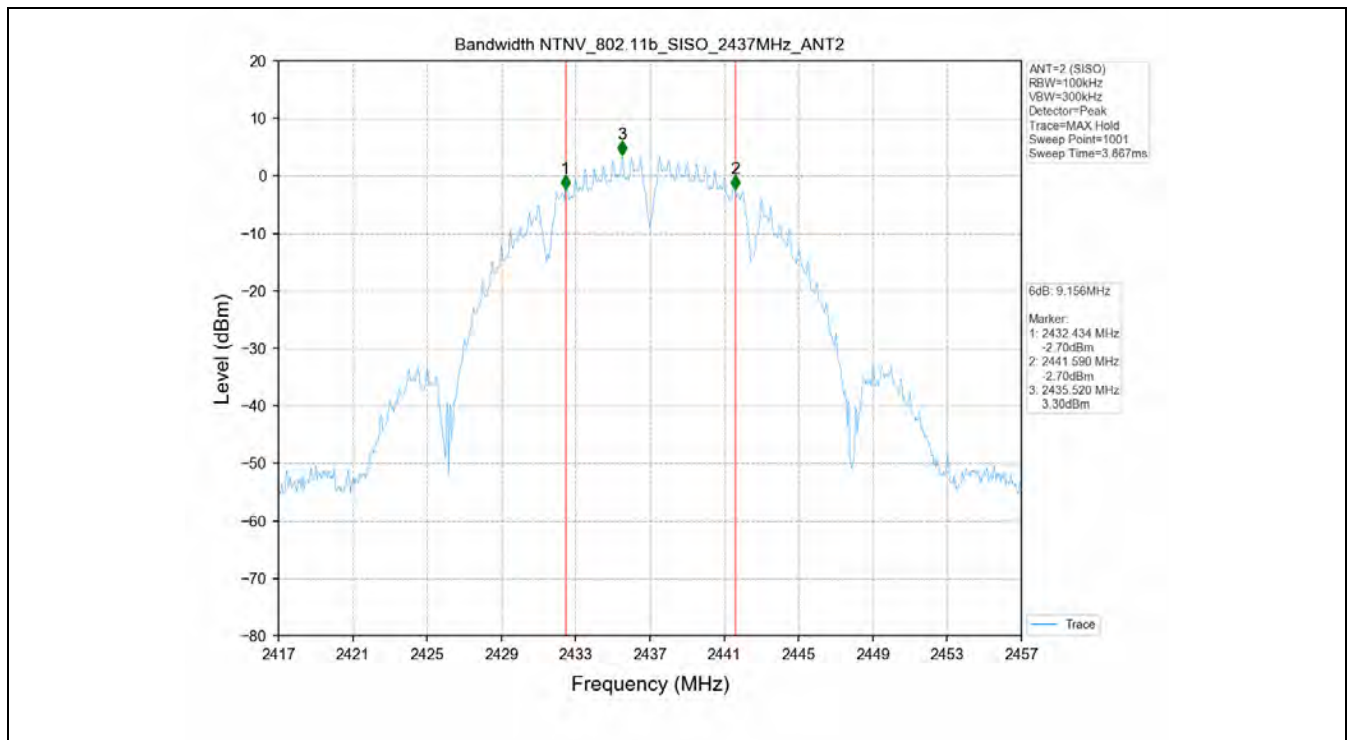
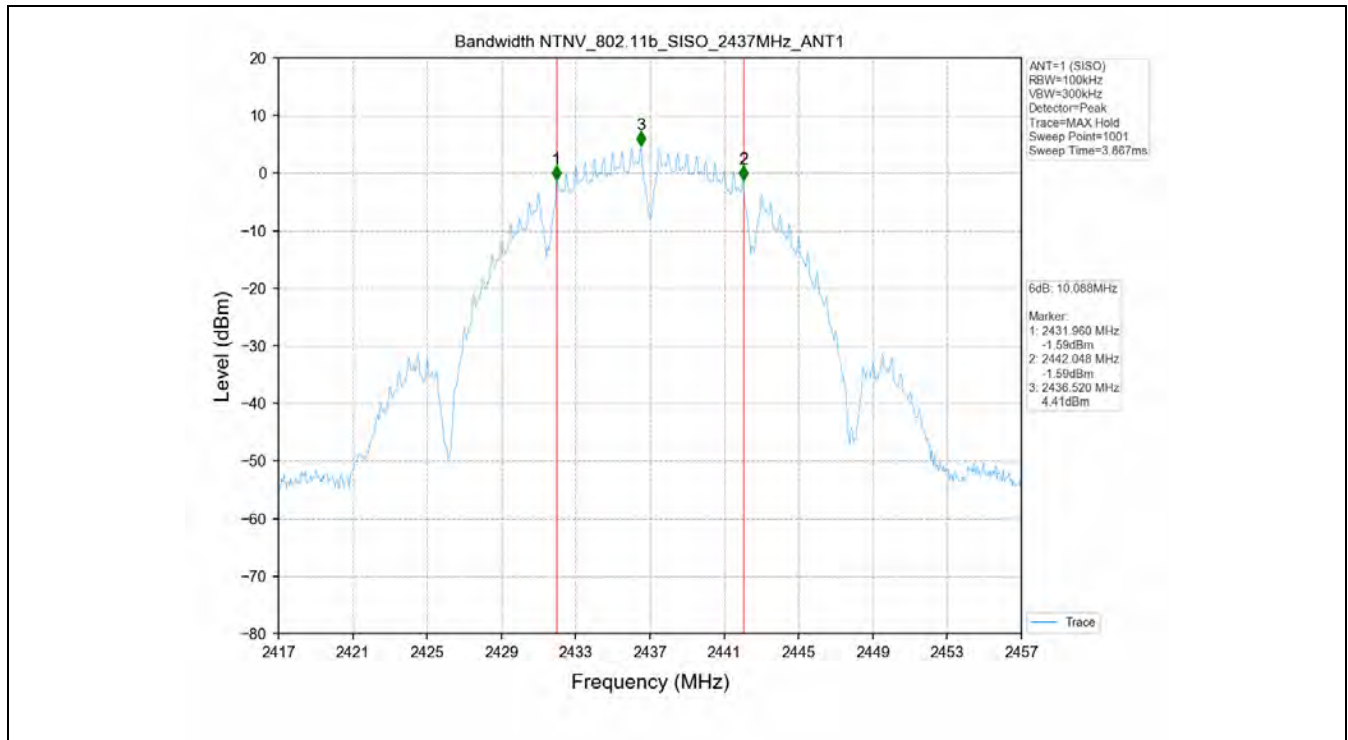
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

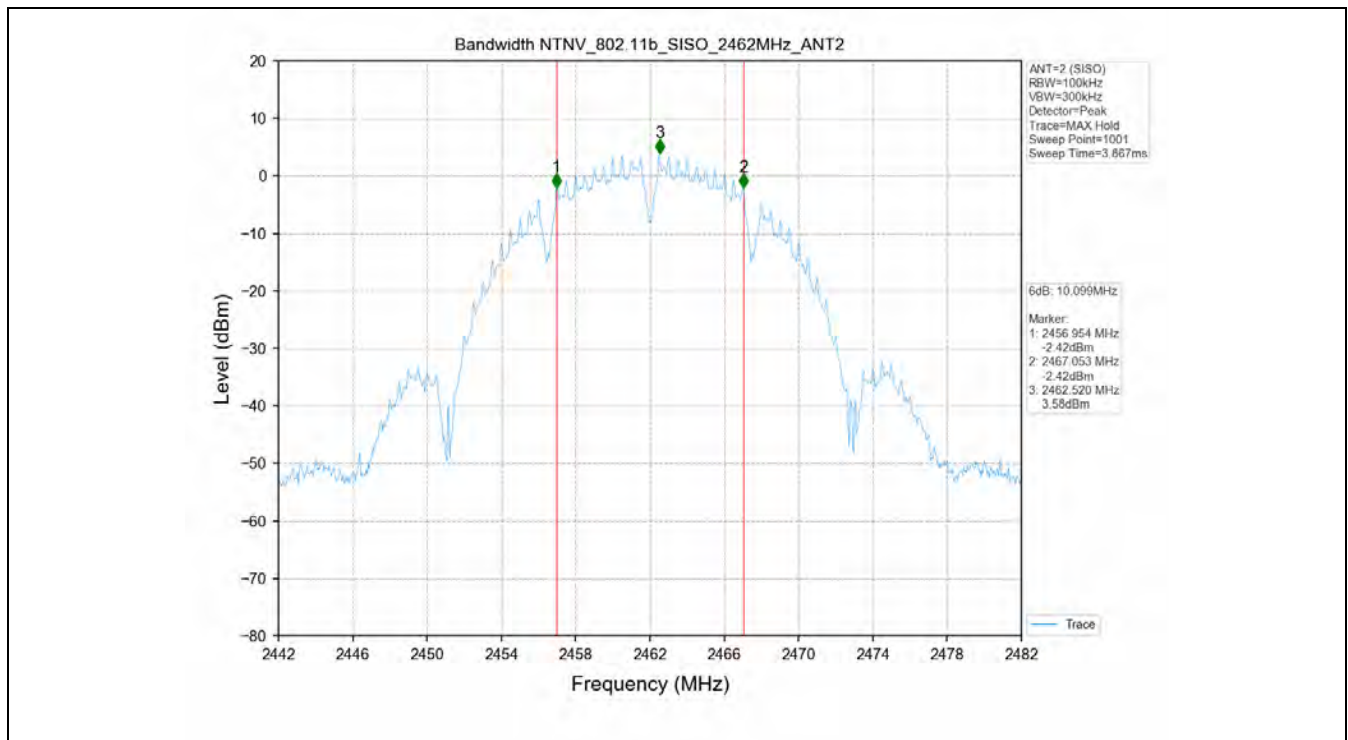
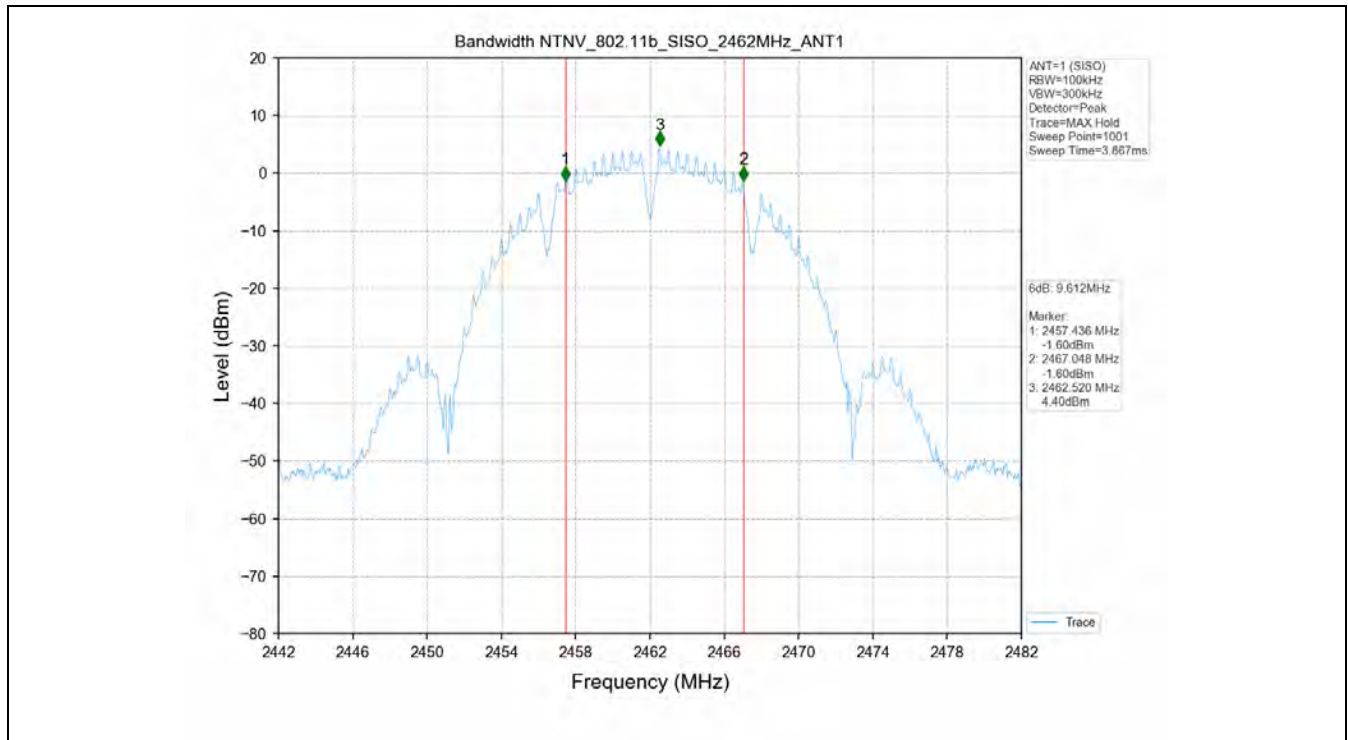
			2	35.790	≥ 0.5	PASS
	2452	MIMO	1	35.813	≥ 0.5	PASS
			2	35.812	≥ 0.5	PASS

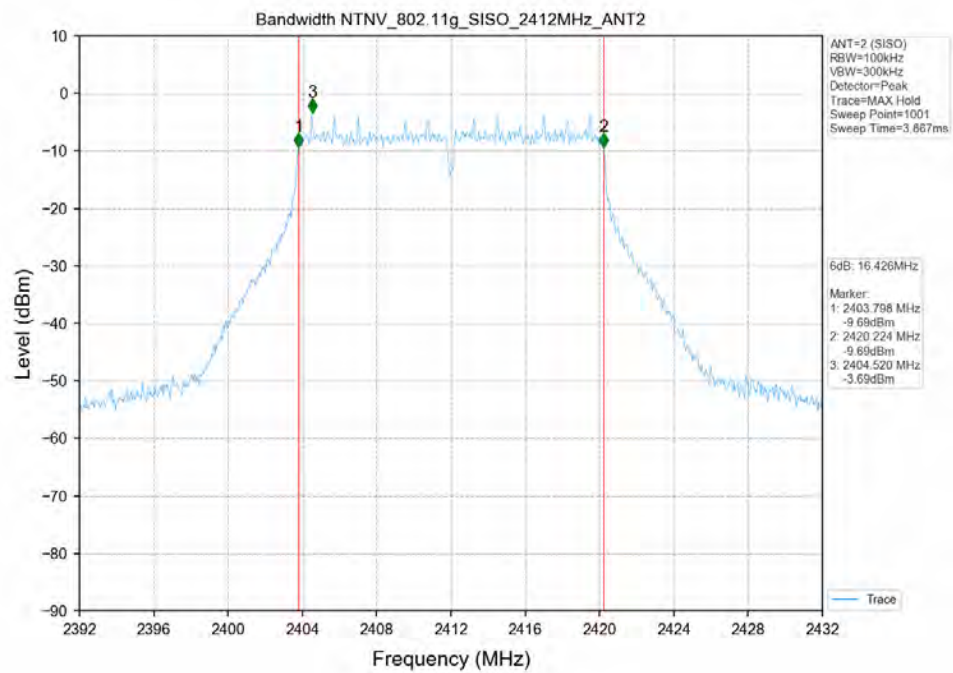
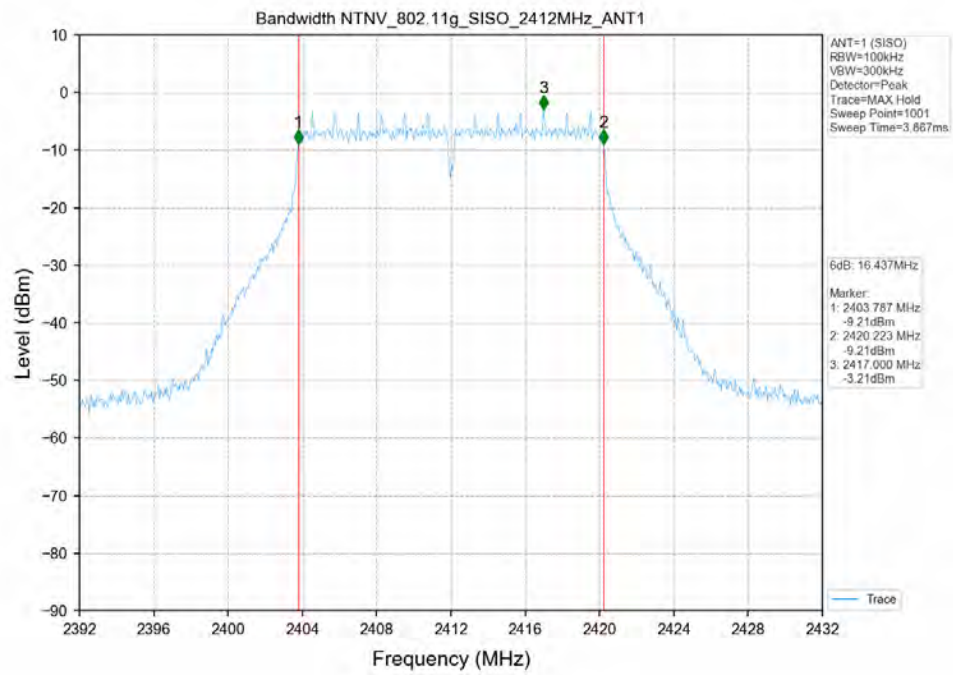
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.099	Only for Report Use
			2	15.087	Only for Report Use
	2437	SISO	1	15.093	Only for Report Use
			2	15.086	Only for Report Use
	2462	SISO	1	15.091	Only for Report Use
			2	15.079	Only for Report Use
802.11g	2412	SISO	1	16.950	Only for Report Use
			2	16.910	Only for Report Use
	2437	SISO	1	17.190	Only for Report Use
			2	17.109	Only for Report Use
	2462	SISO	1	16.926	Only for Report Use
			2	16.870	Only for Report Use
802.11n(HT20)	2412	MIMO	1	16.909	Only for Report Use
			2	16.878	Only for Report Use
	2437	MIMO	1	18.103	Only for Report Use
			2	18.134	Only for Report Use
	2462	MIMO	1	18.012	Only for Report Use
			2	17.973	Only for Report Use
802.11n(HT40)	2422	MIMO	1	36.519	Only for Report Use
			2	36.469	Only for Report Use
	2437	MIMO	1	36.635	Only for Report Use
			2	36.605	Only for Report Use
	2452	MIMO	1	36.465	Only for Report Use
			2	36.548	Only for Report Use

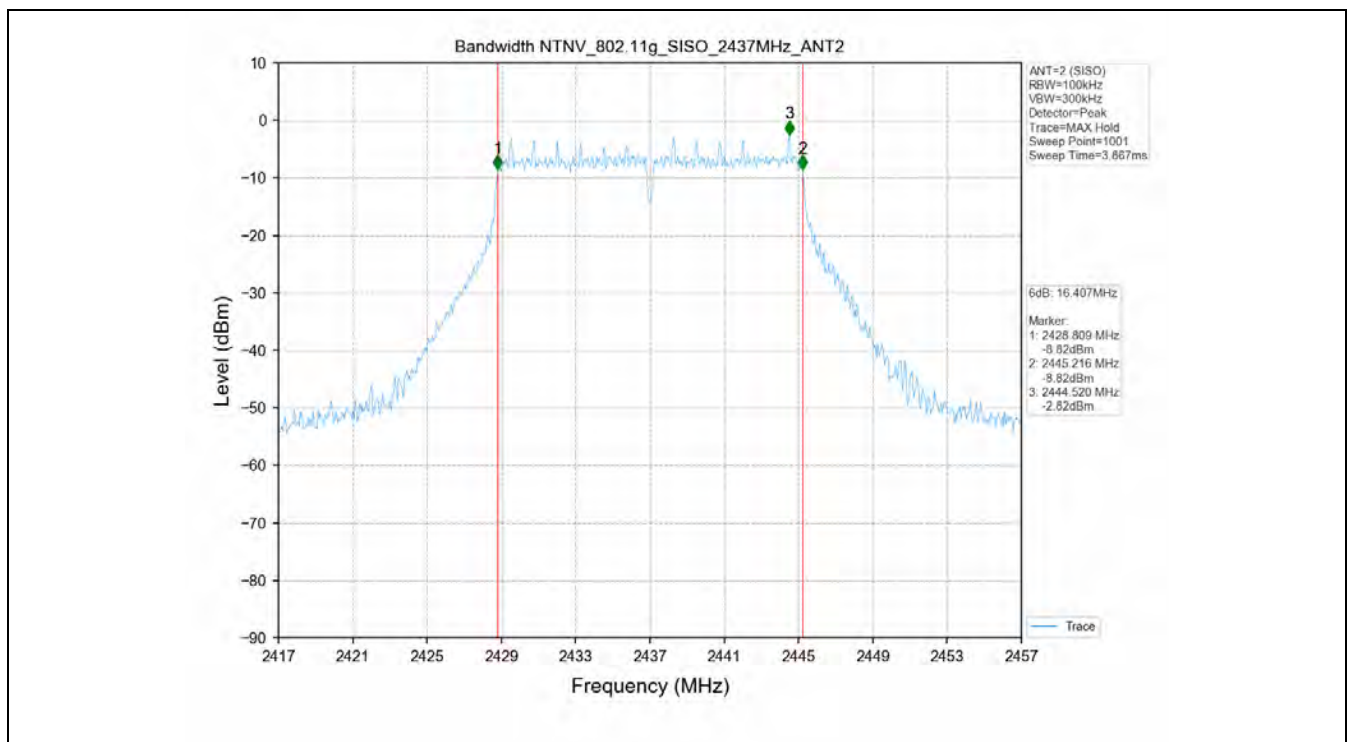
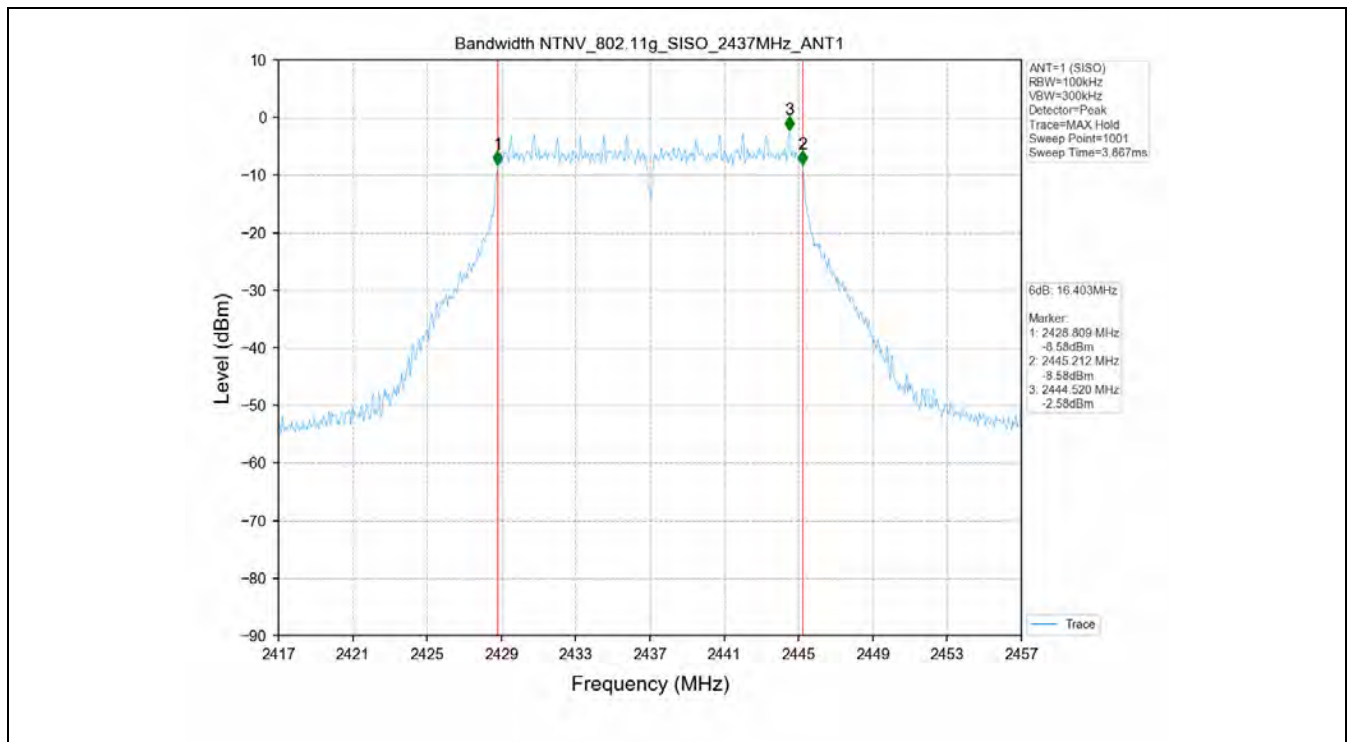
2.2 Test Graph - 6dB Bandwidth

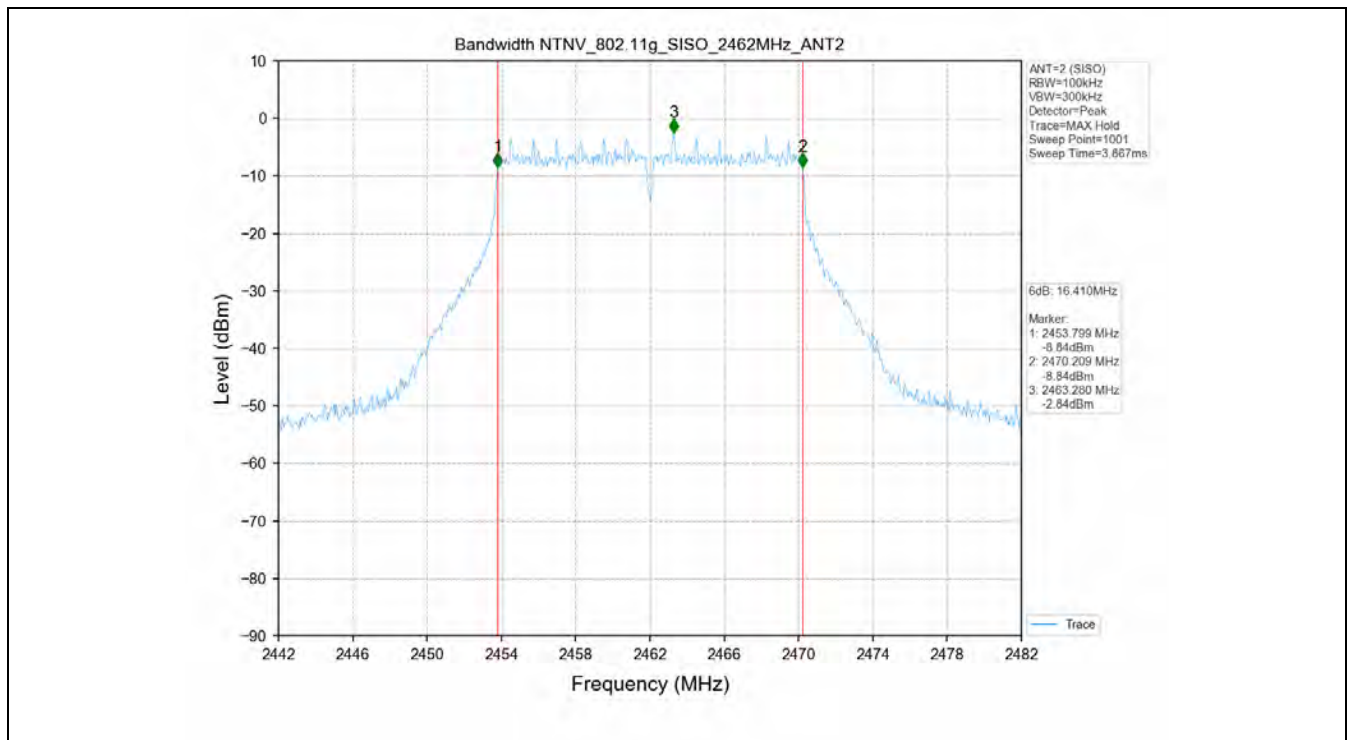
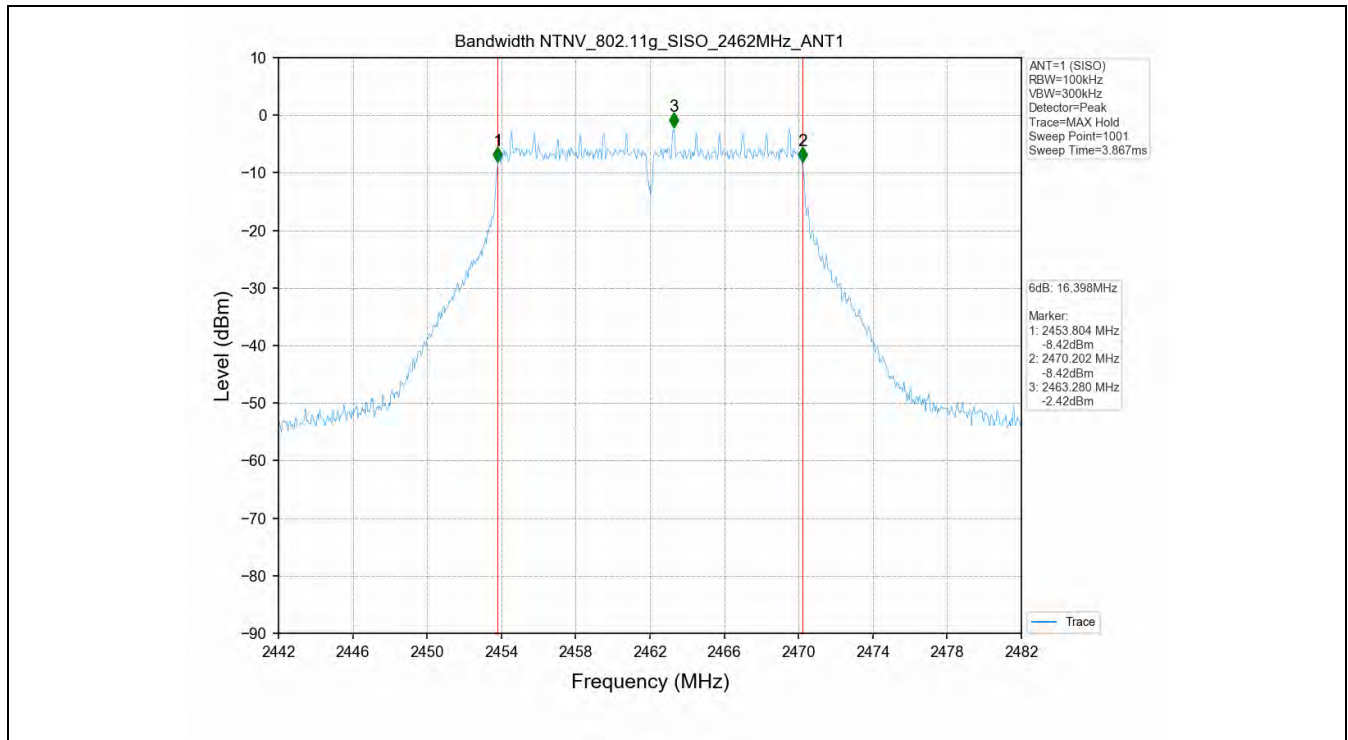


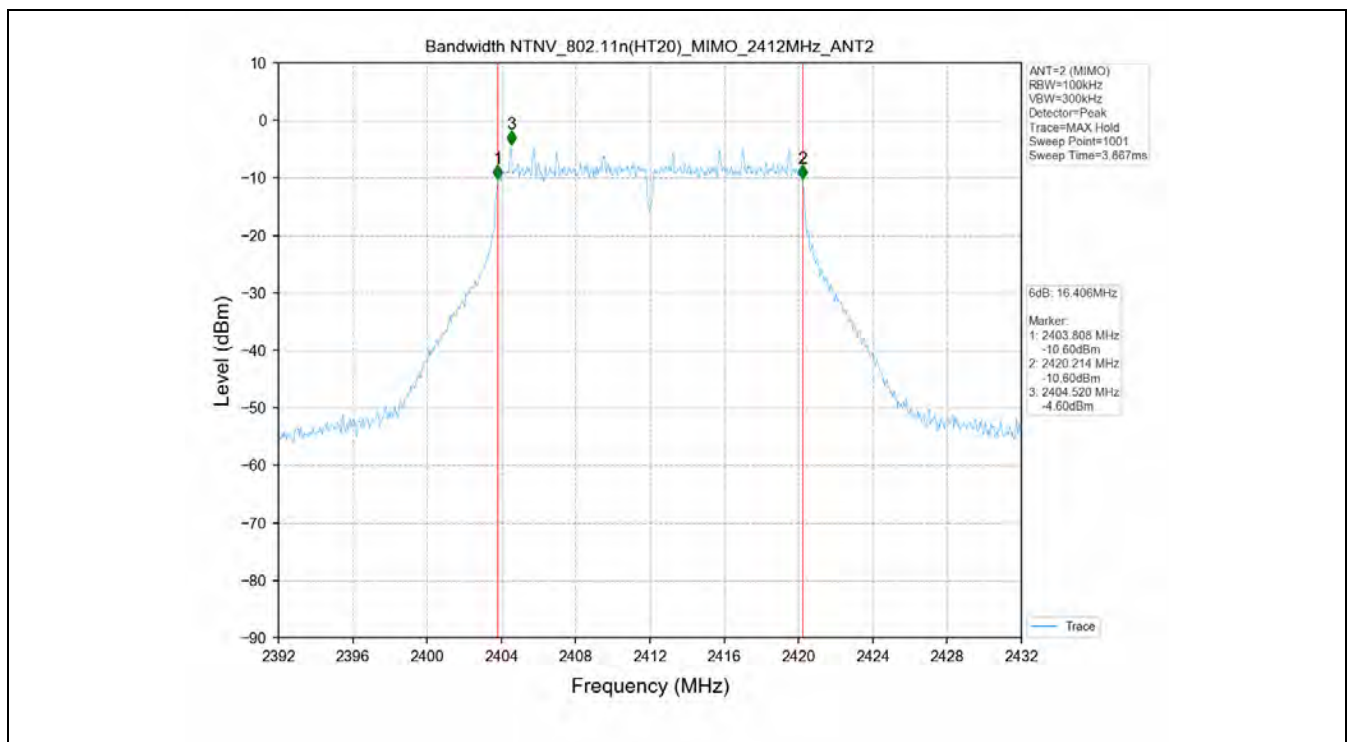
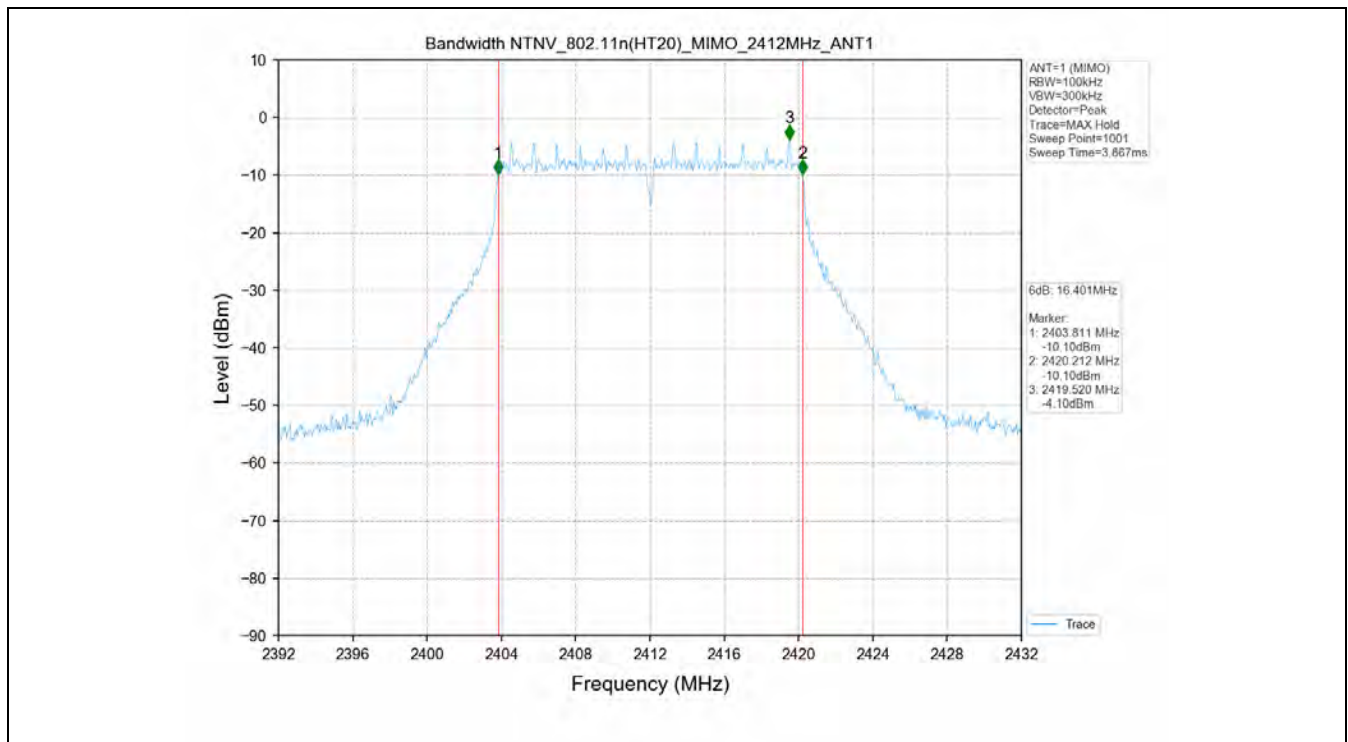


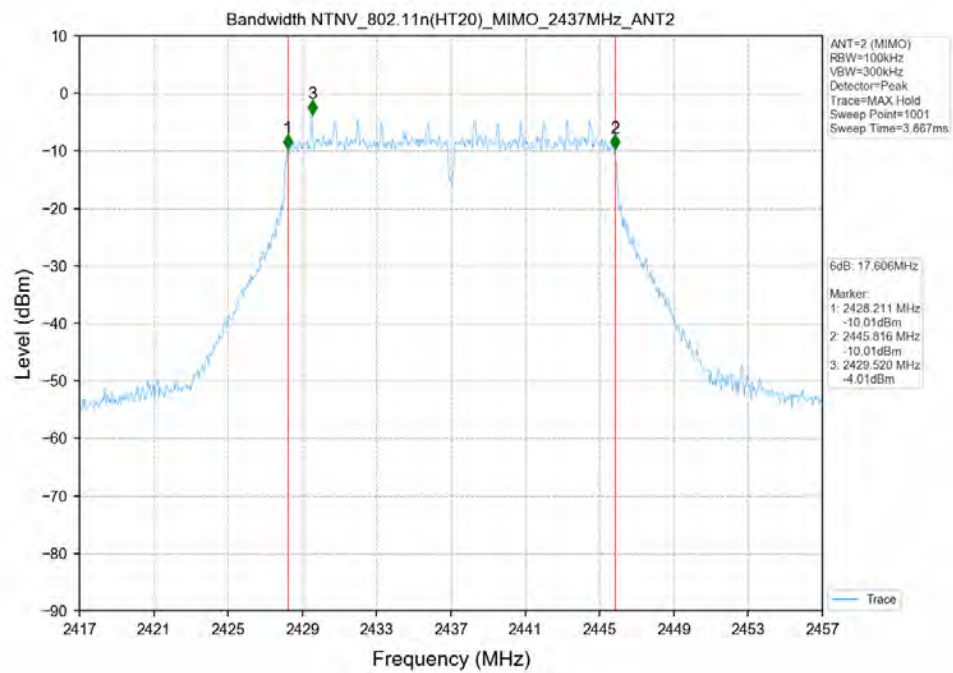
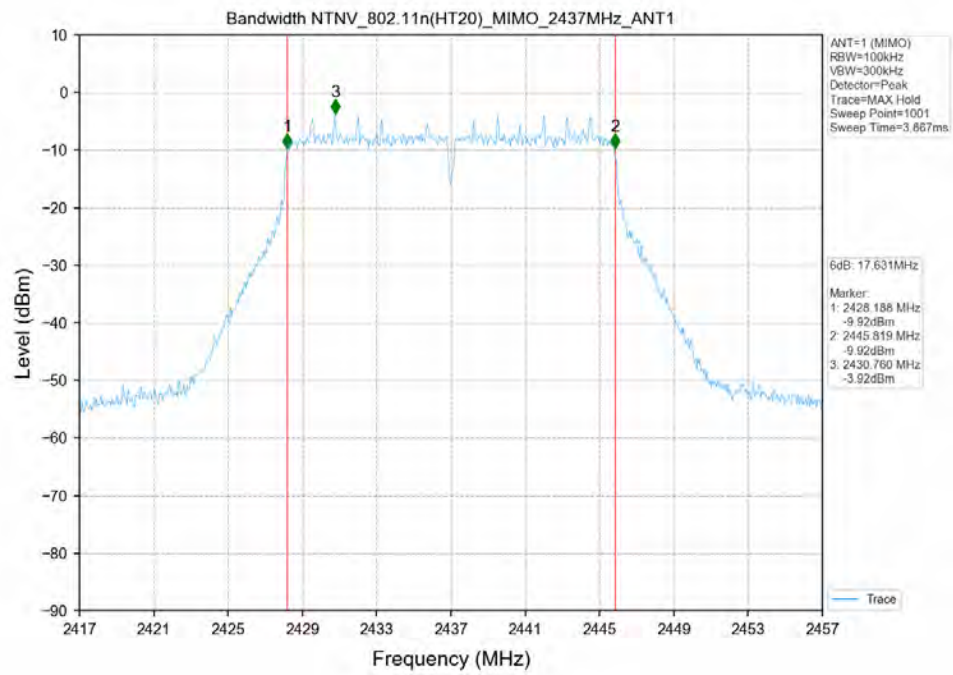


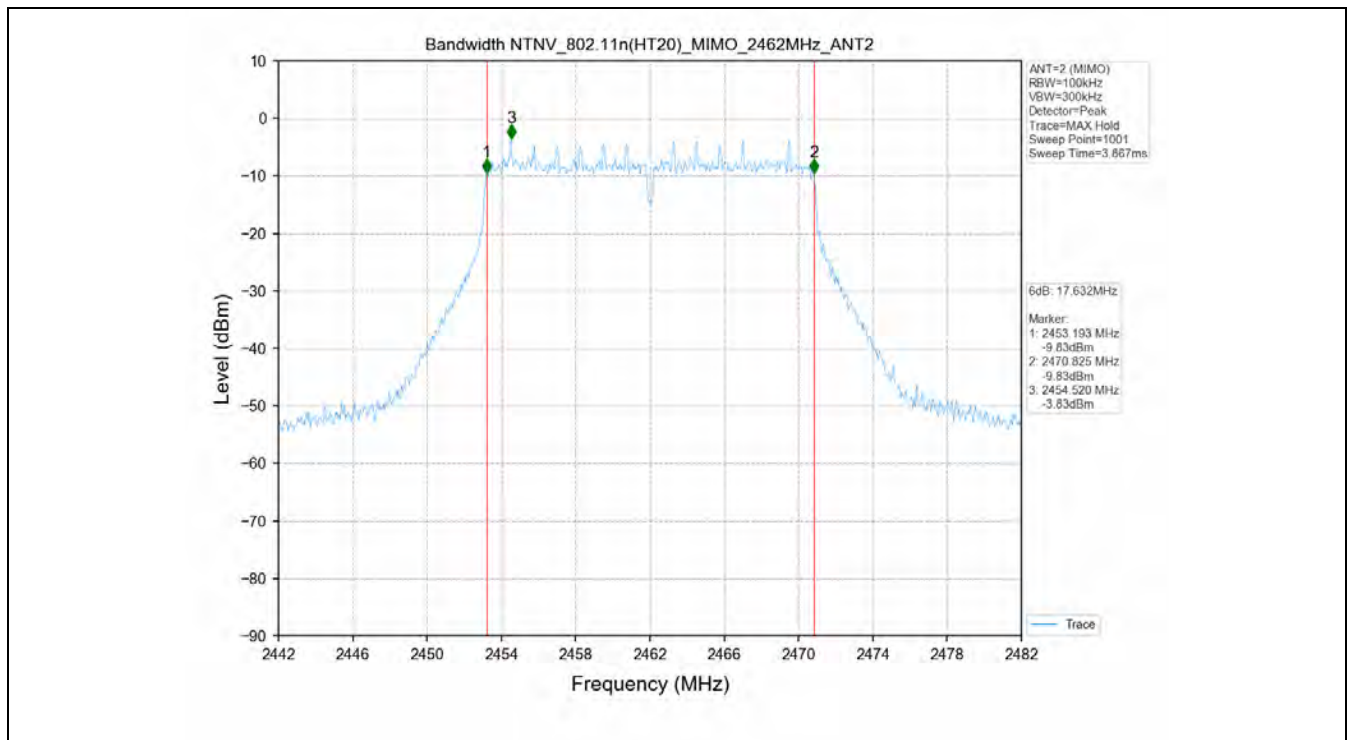
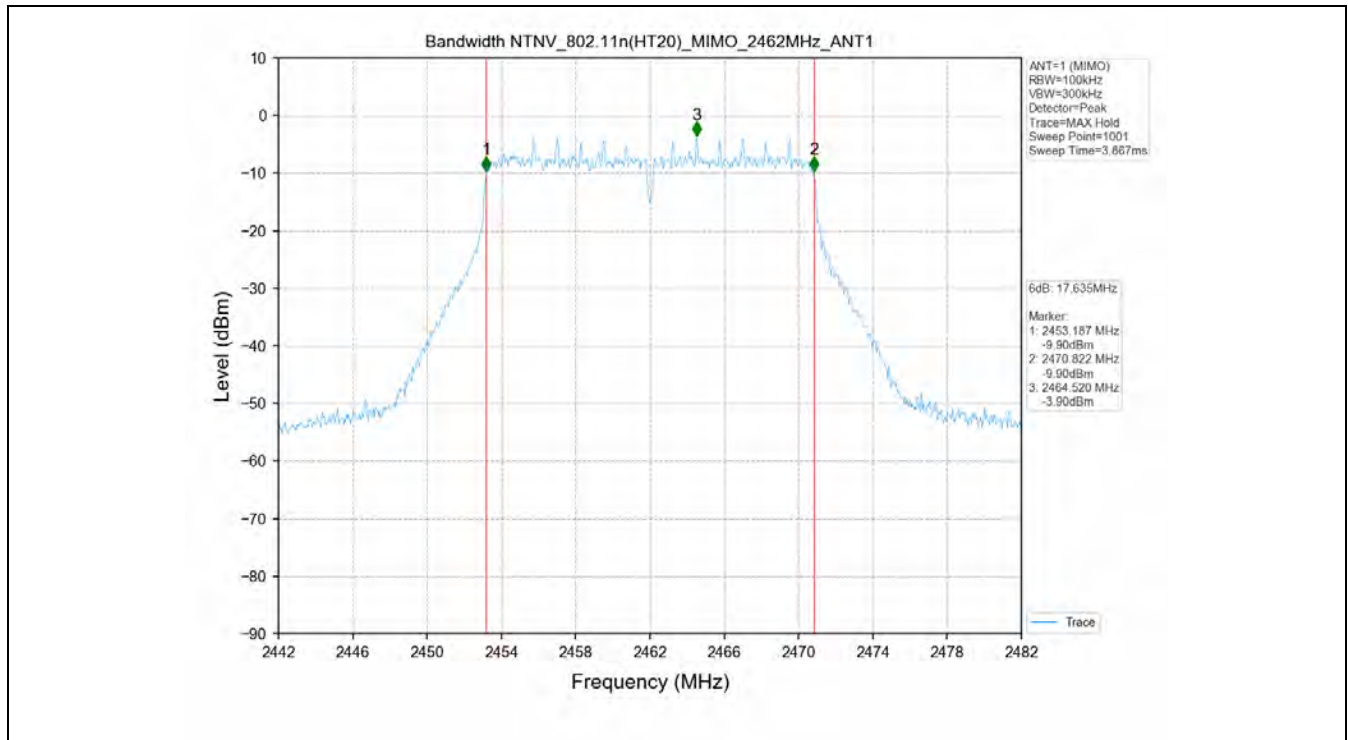


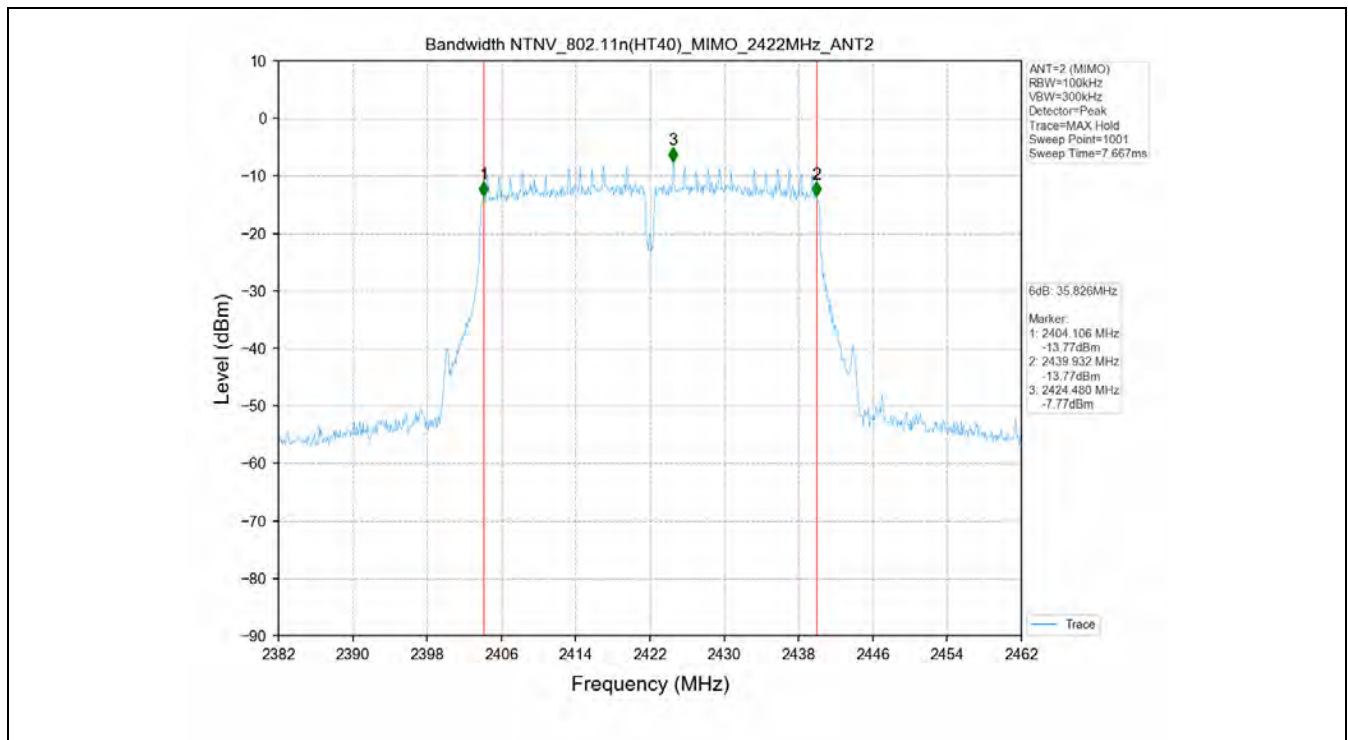
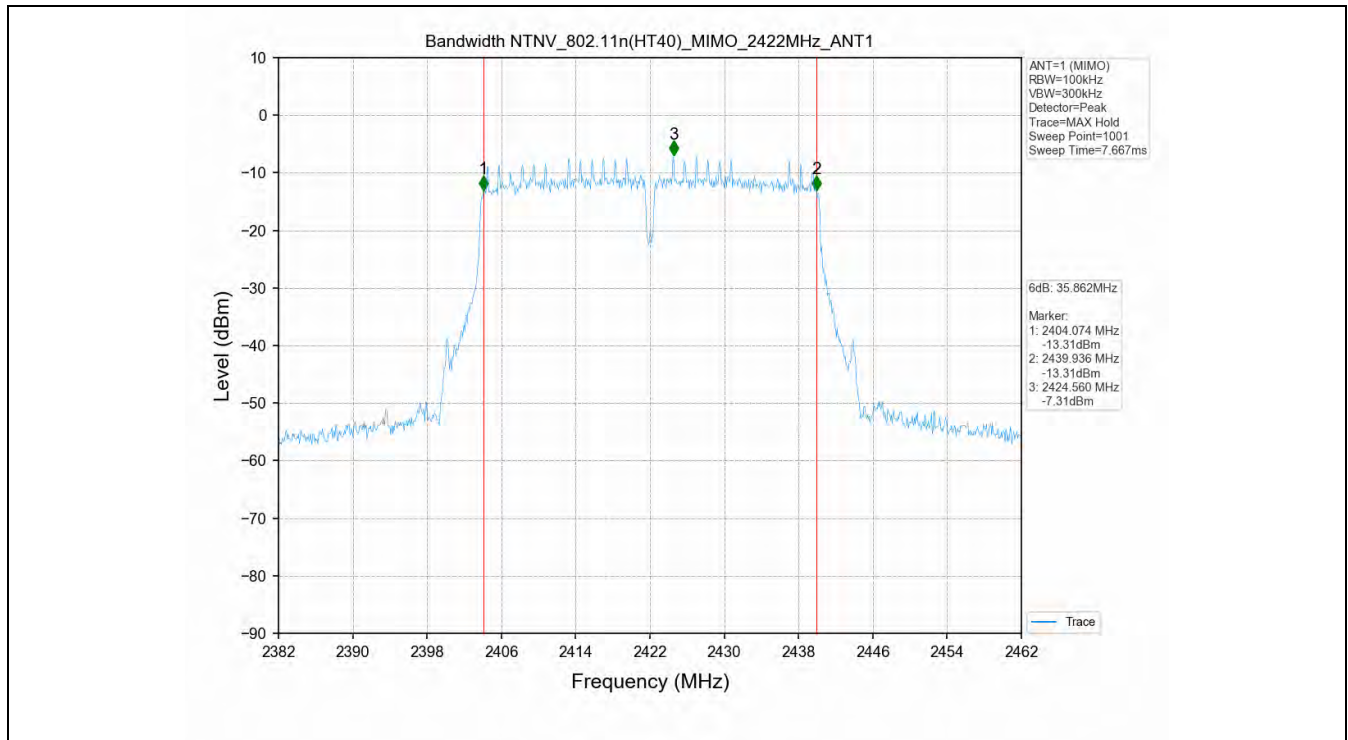


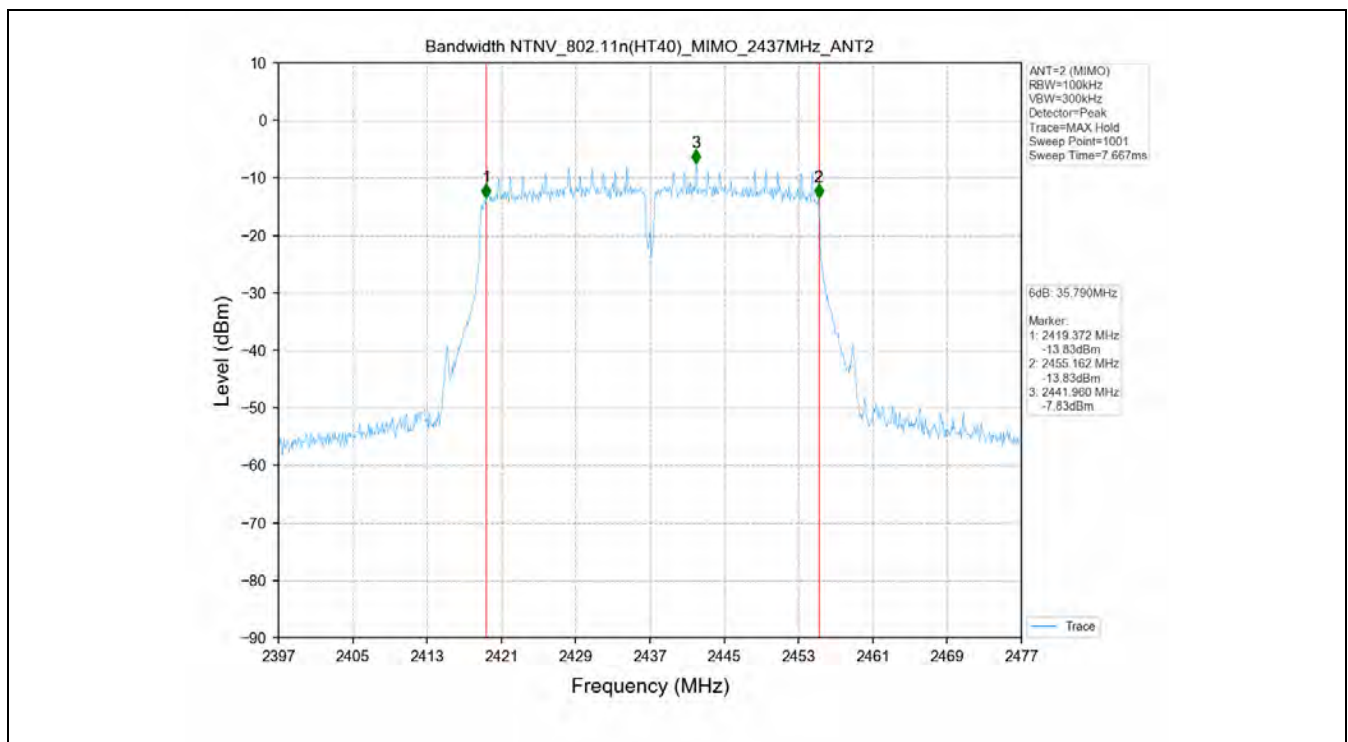
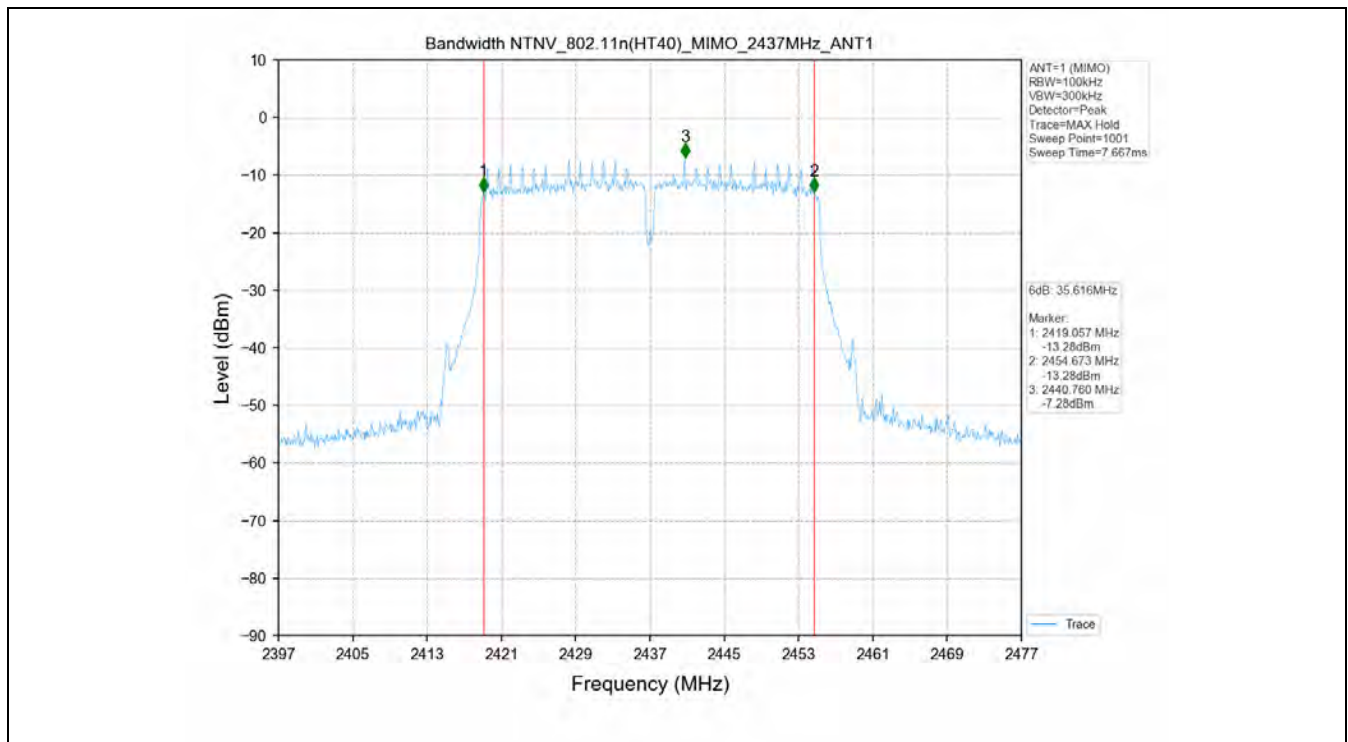


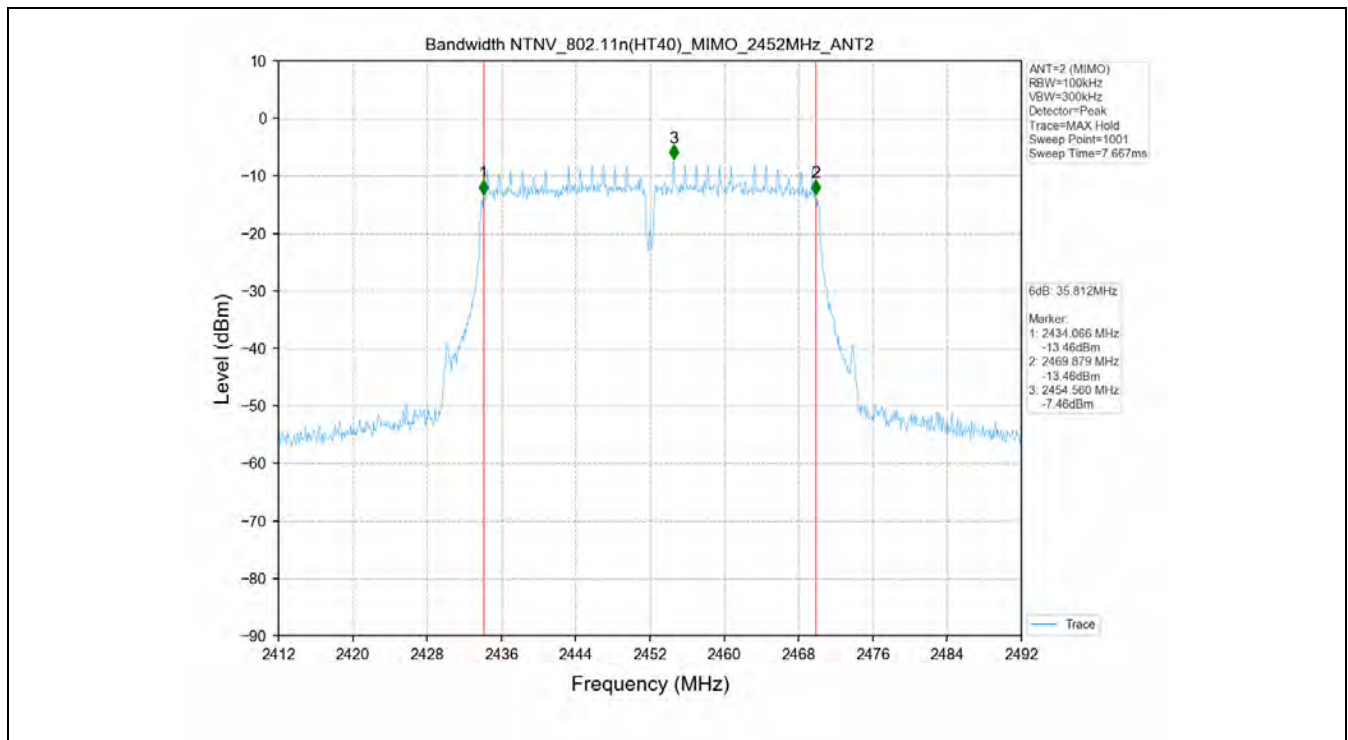
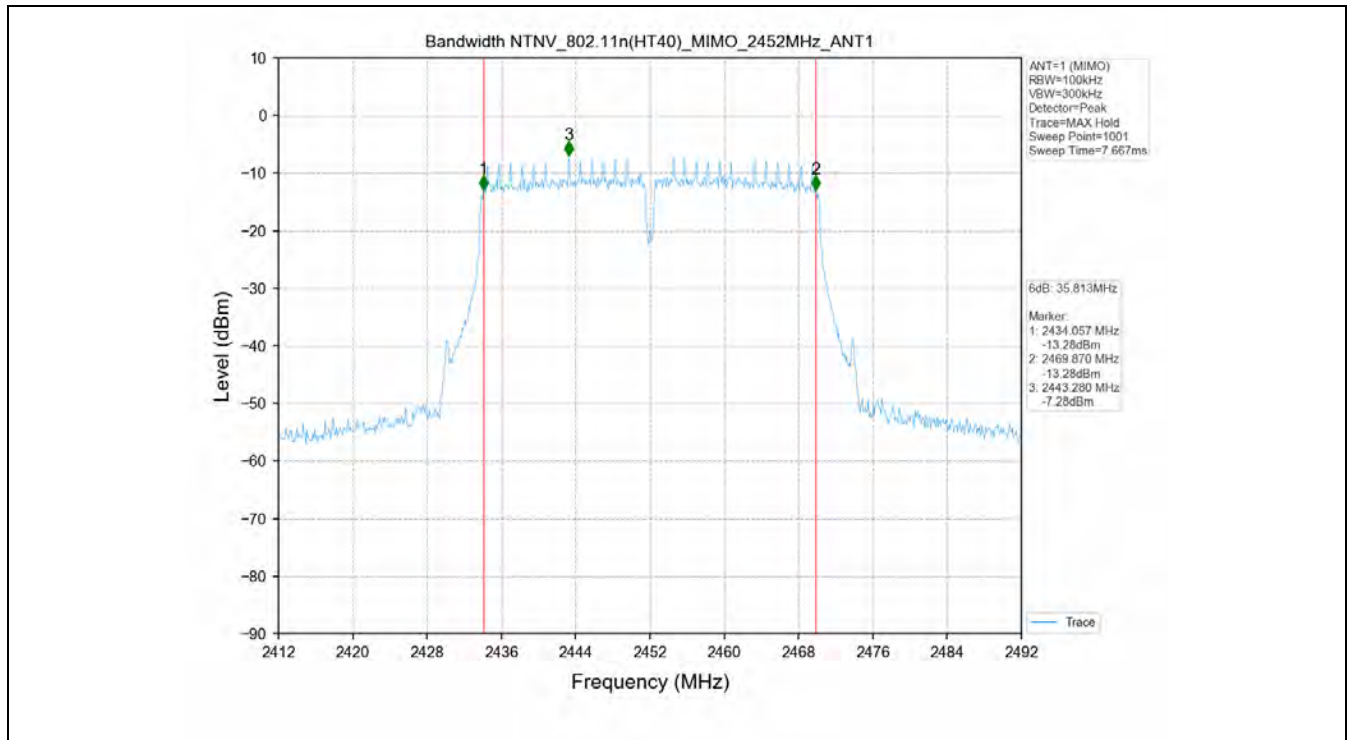






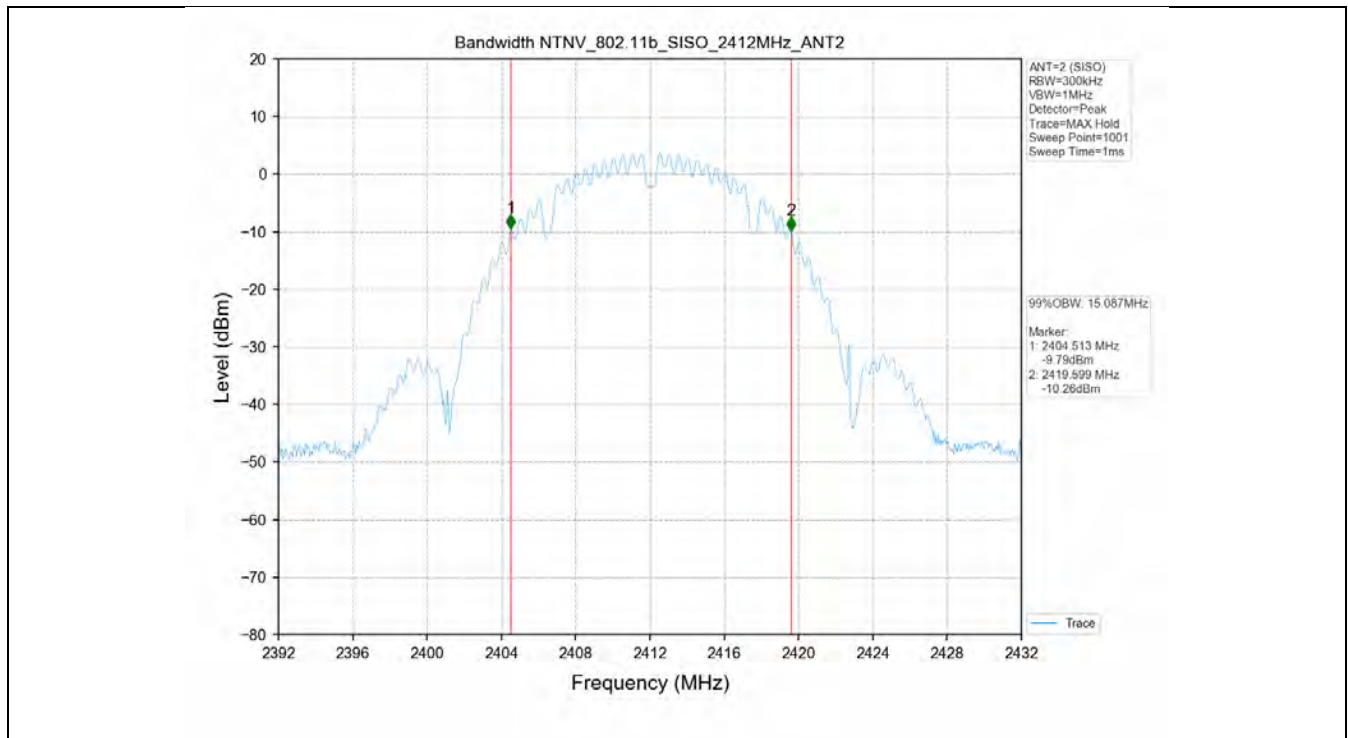
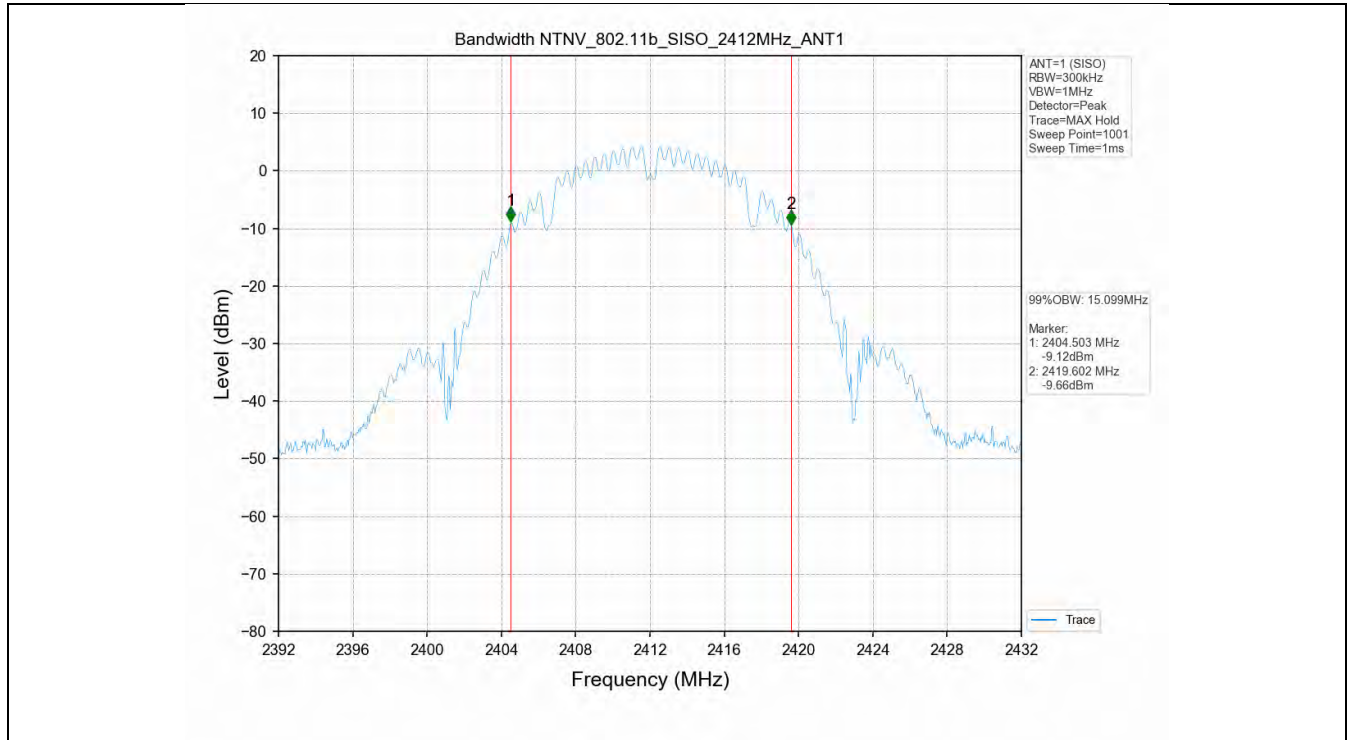


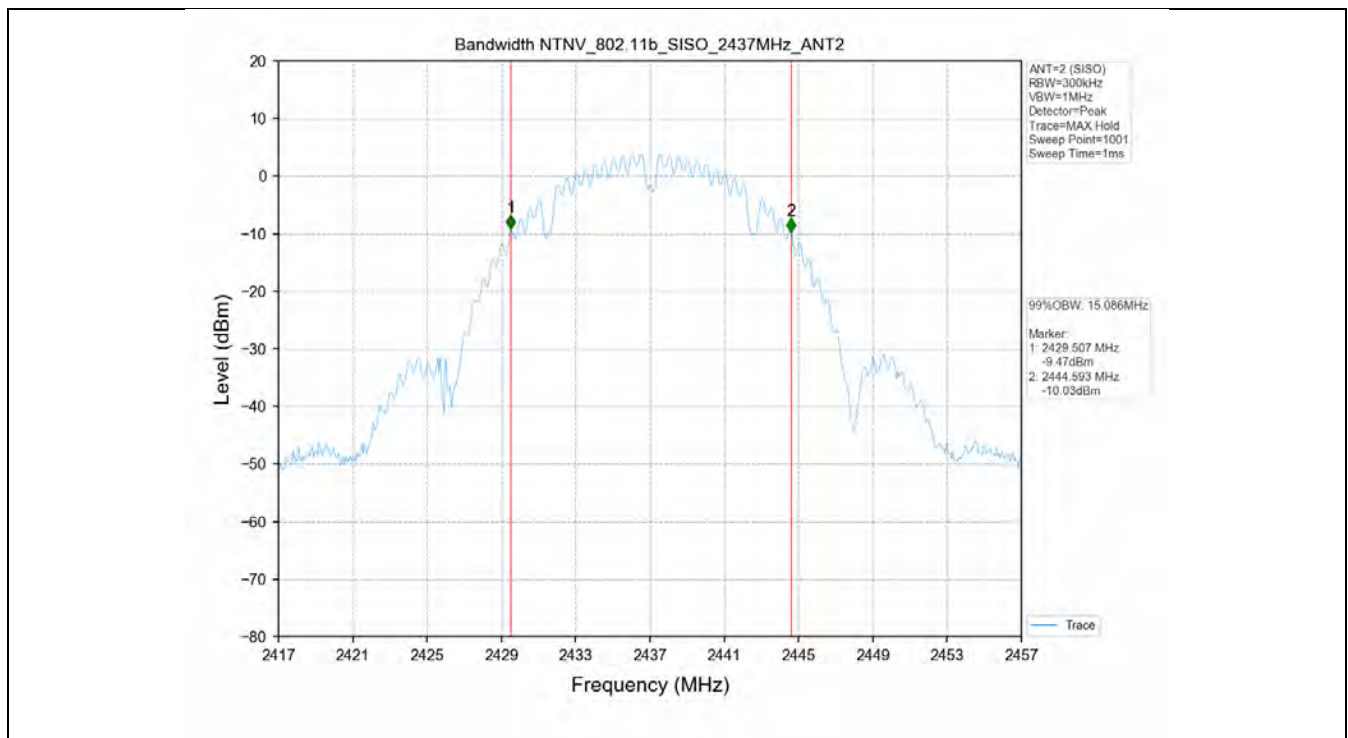
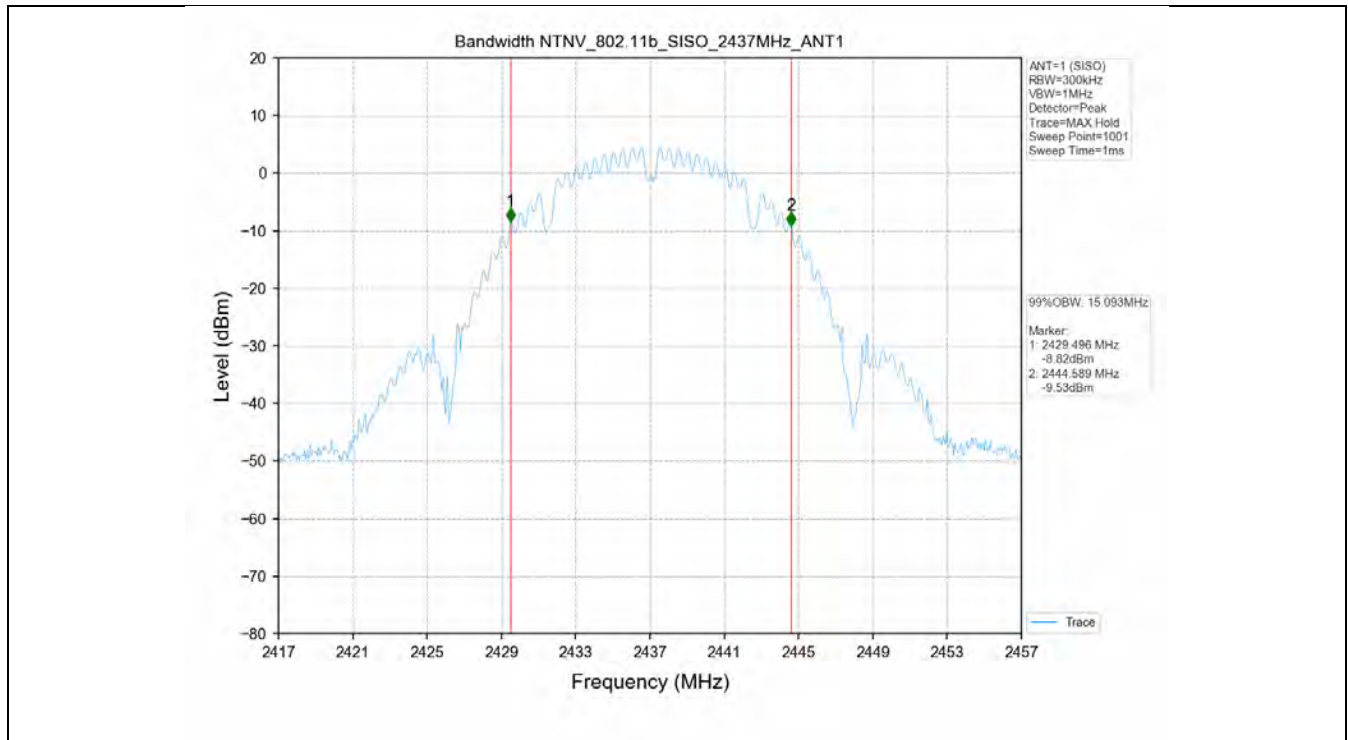


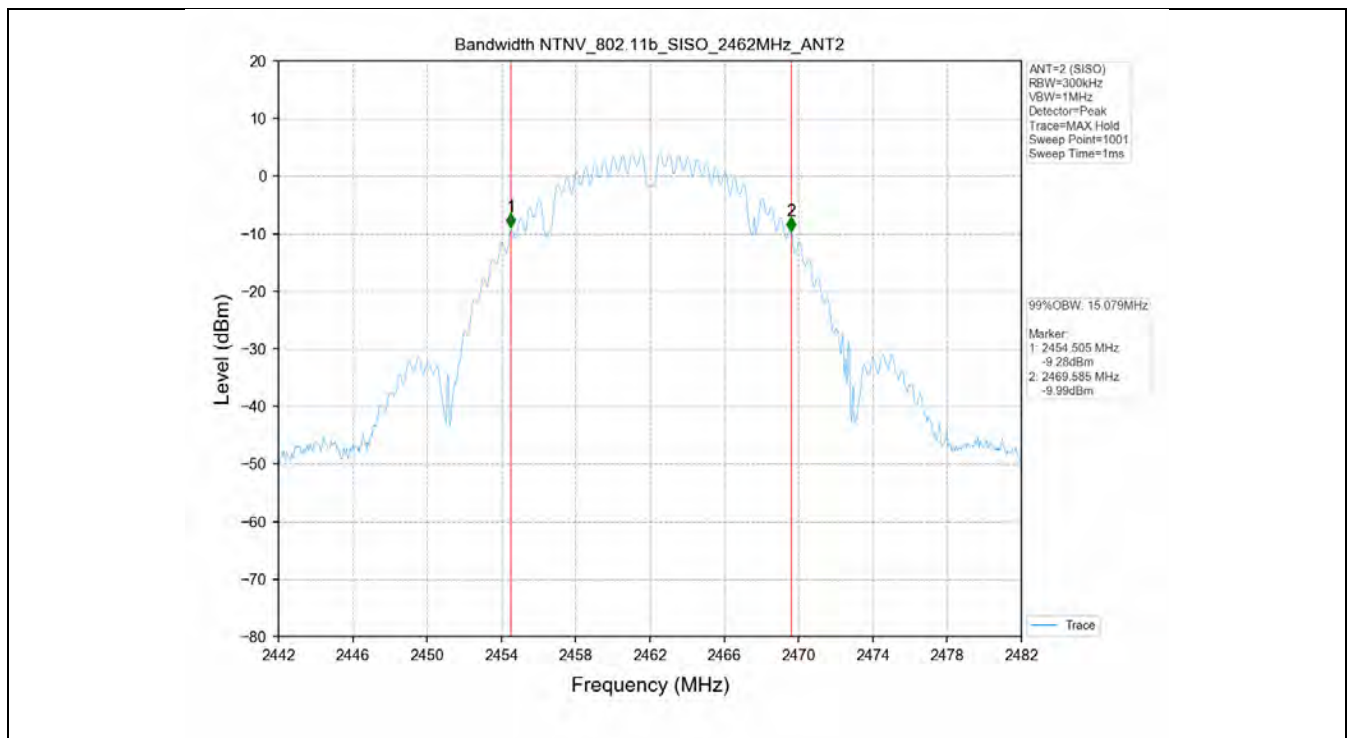
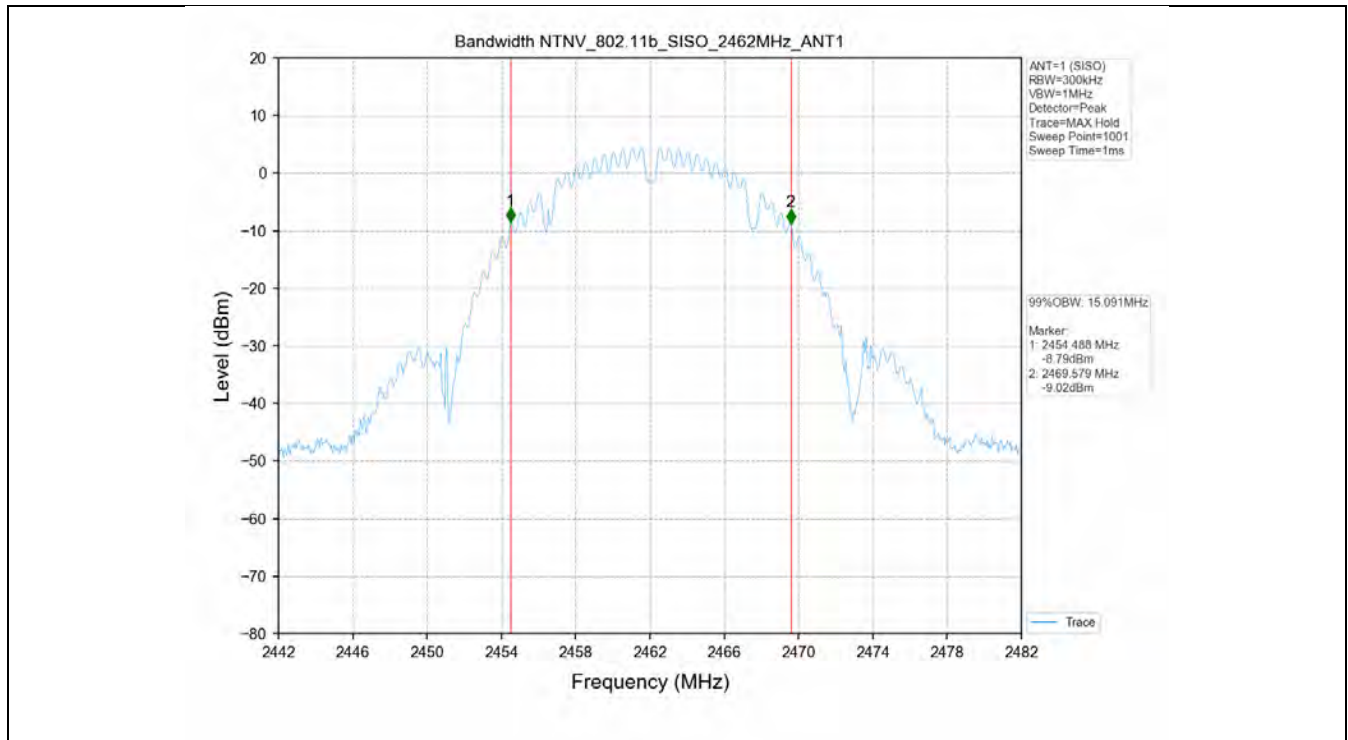


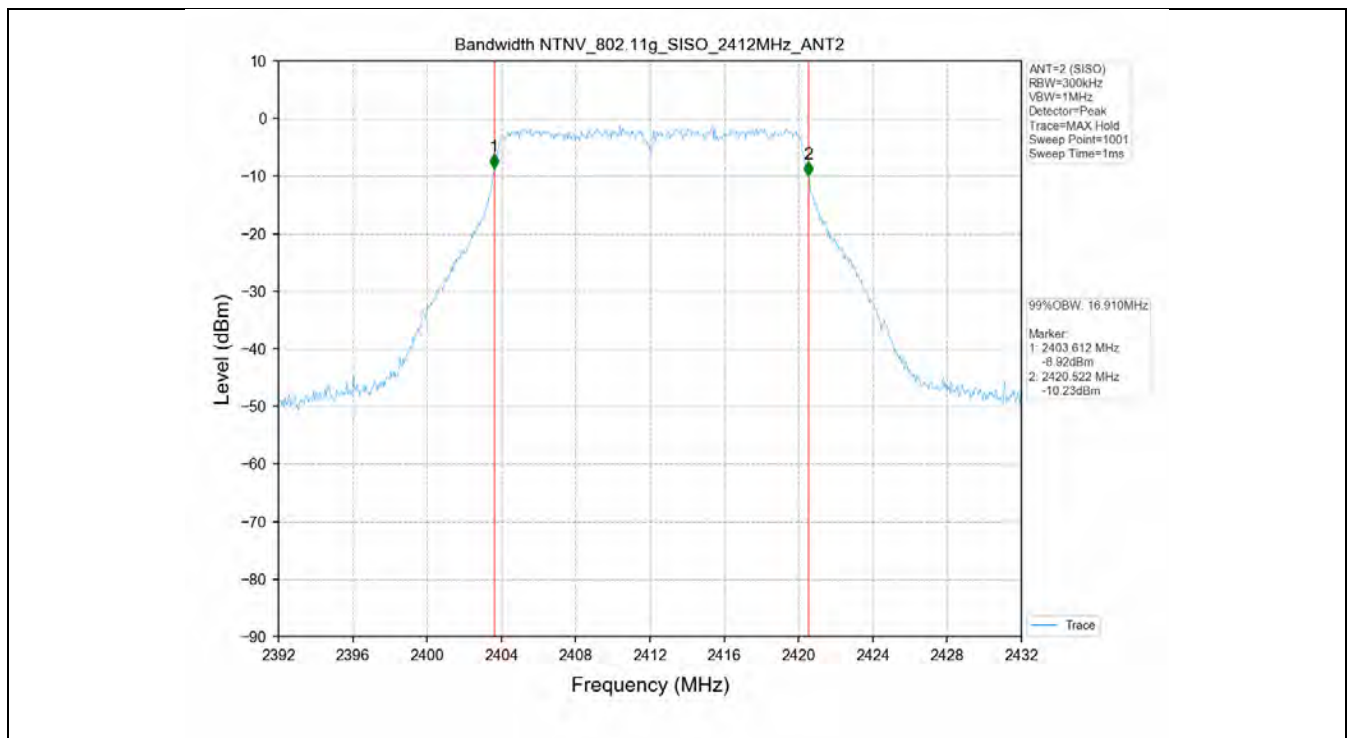
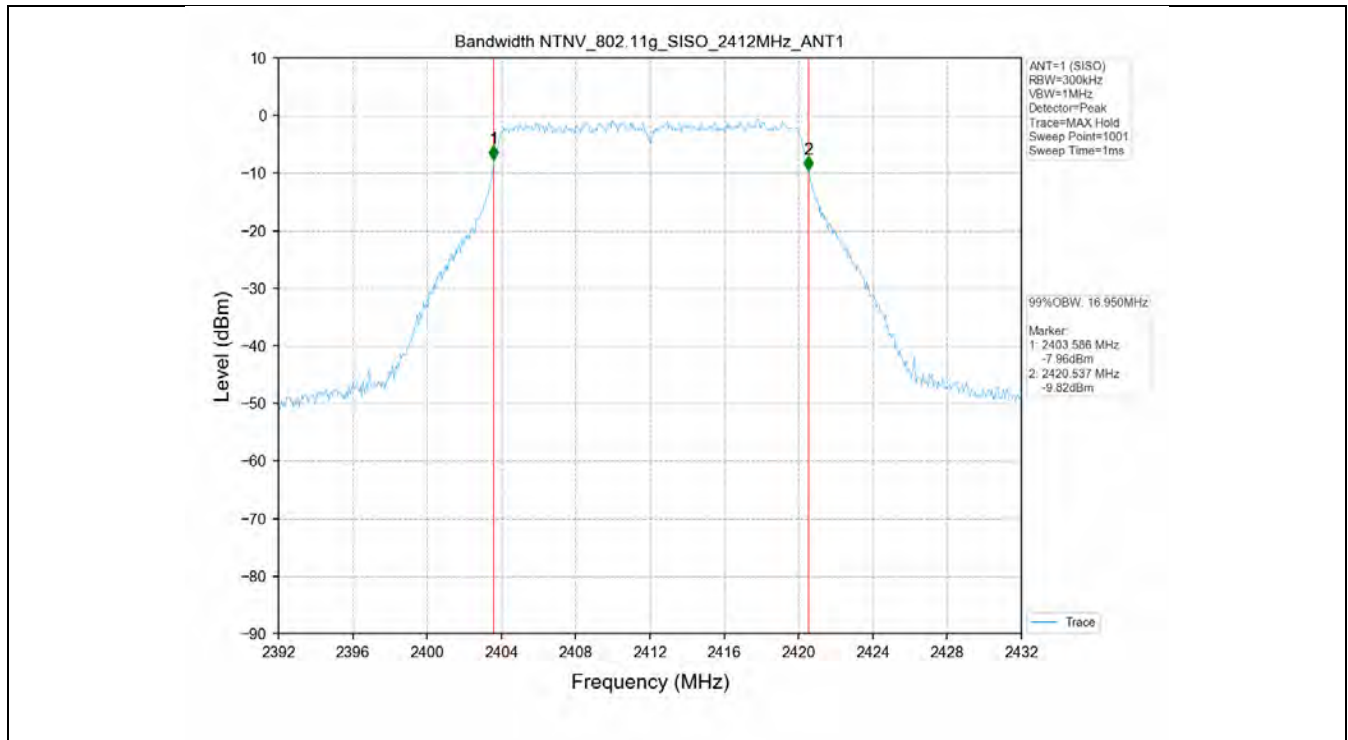


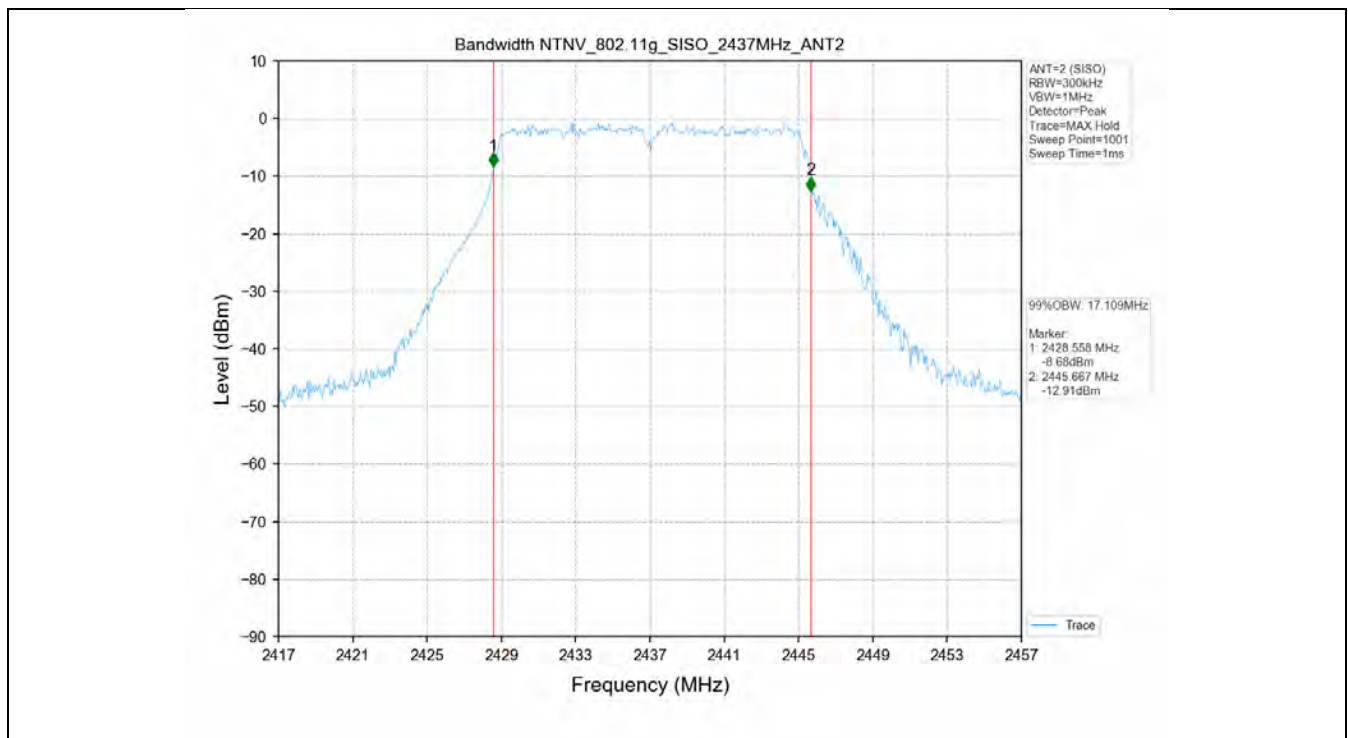
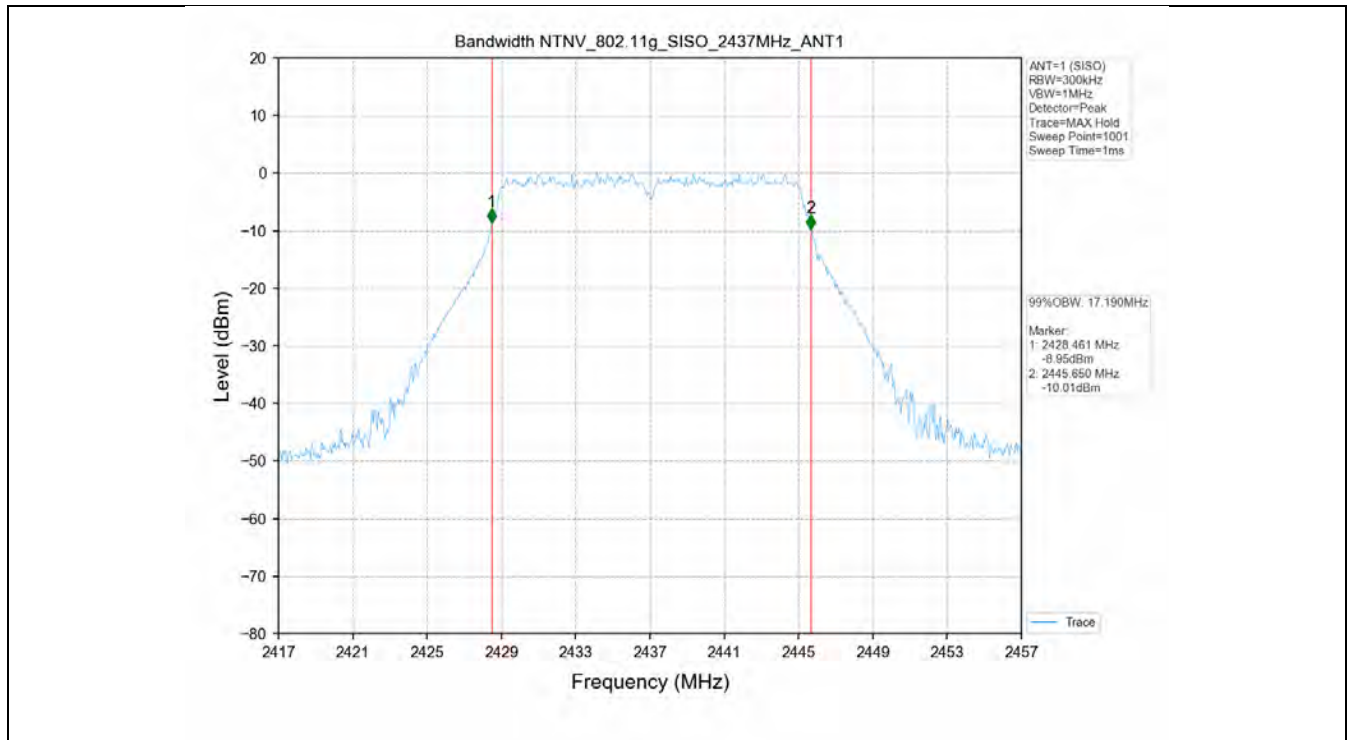
2.3 Test Graph - 99% Occupied Bandwidth

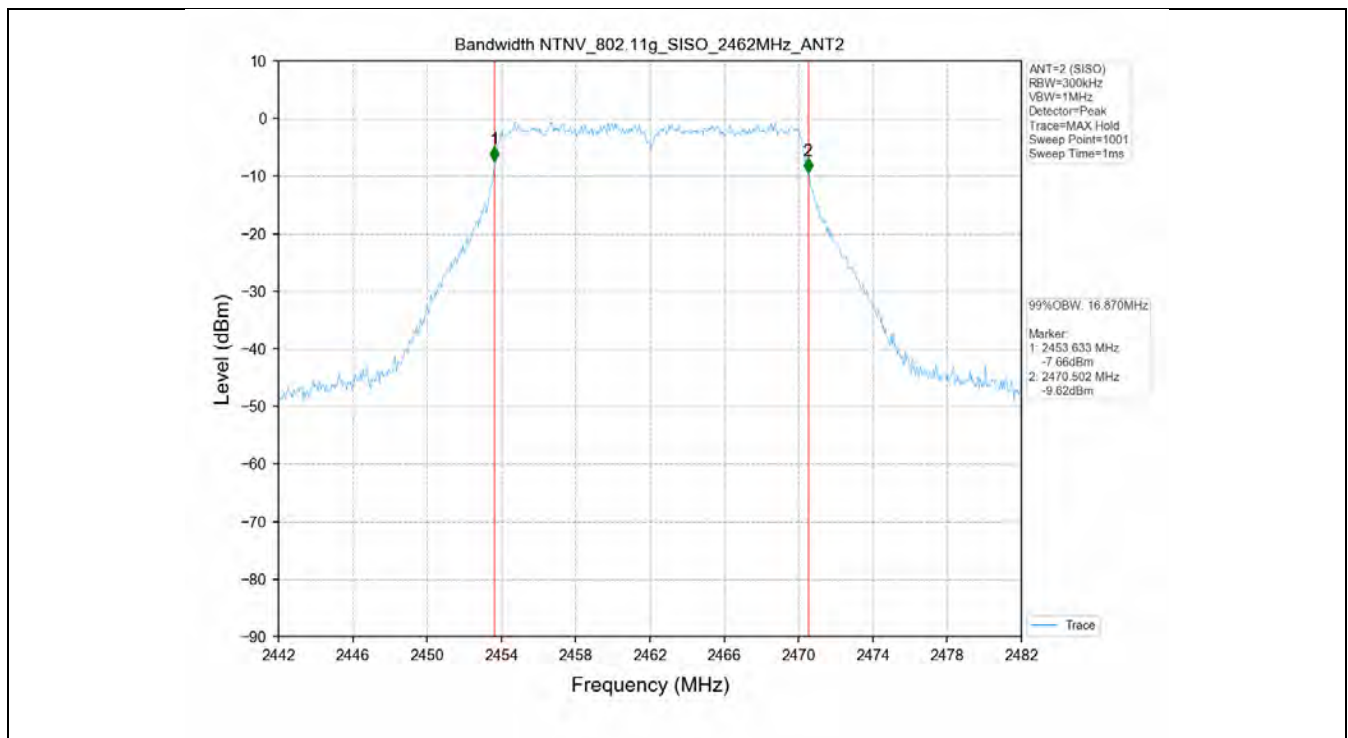
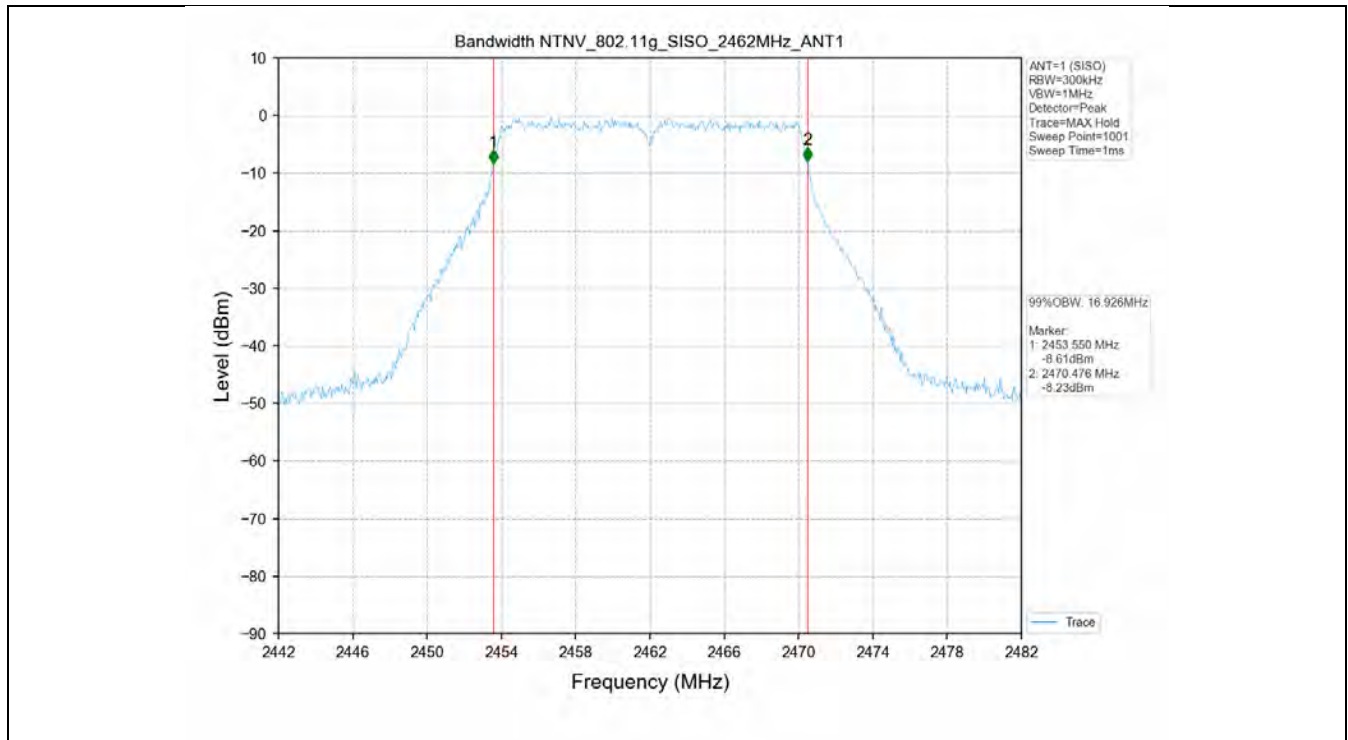


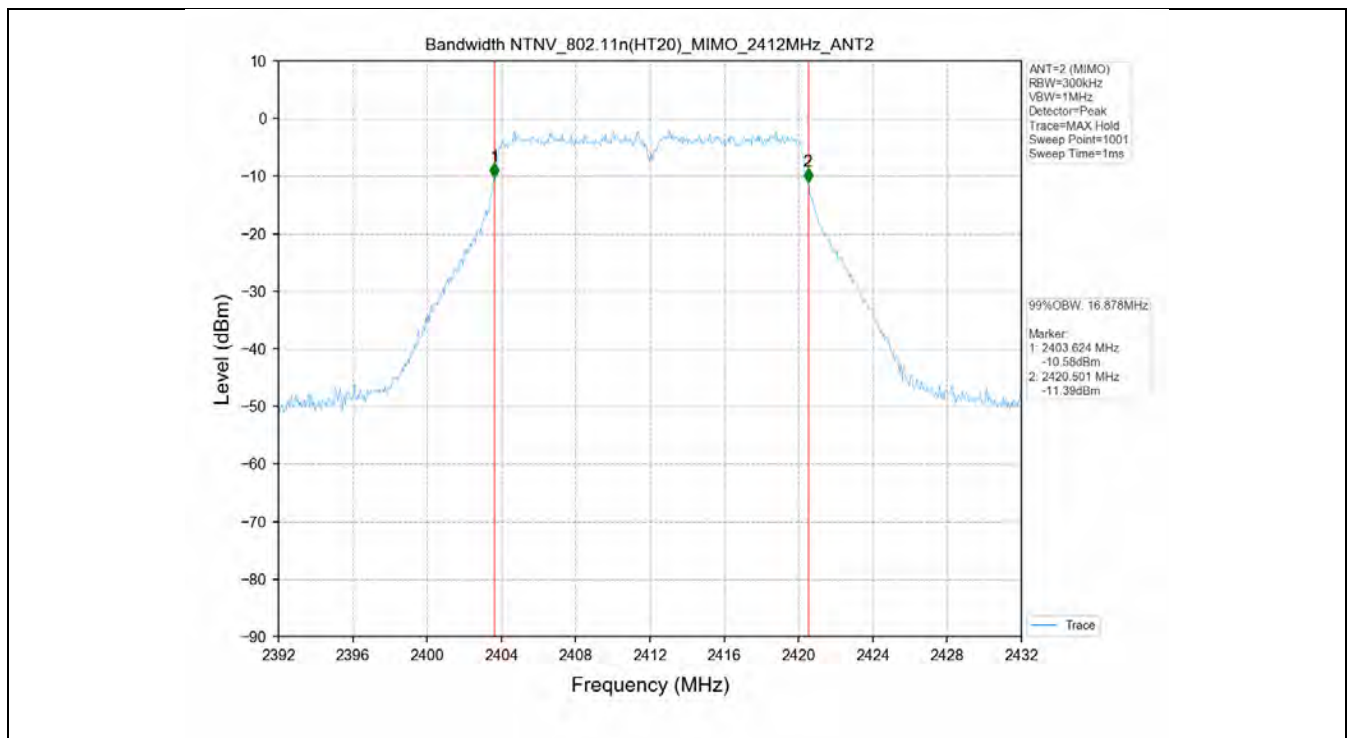
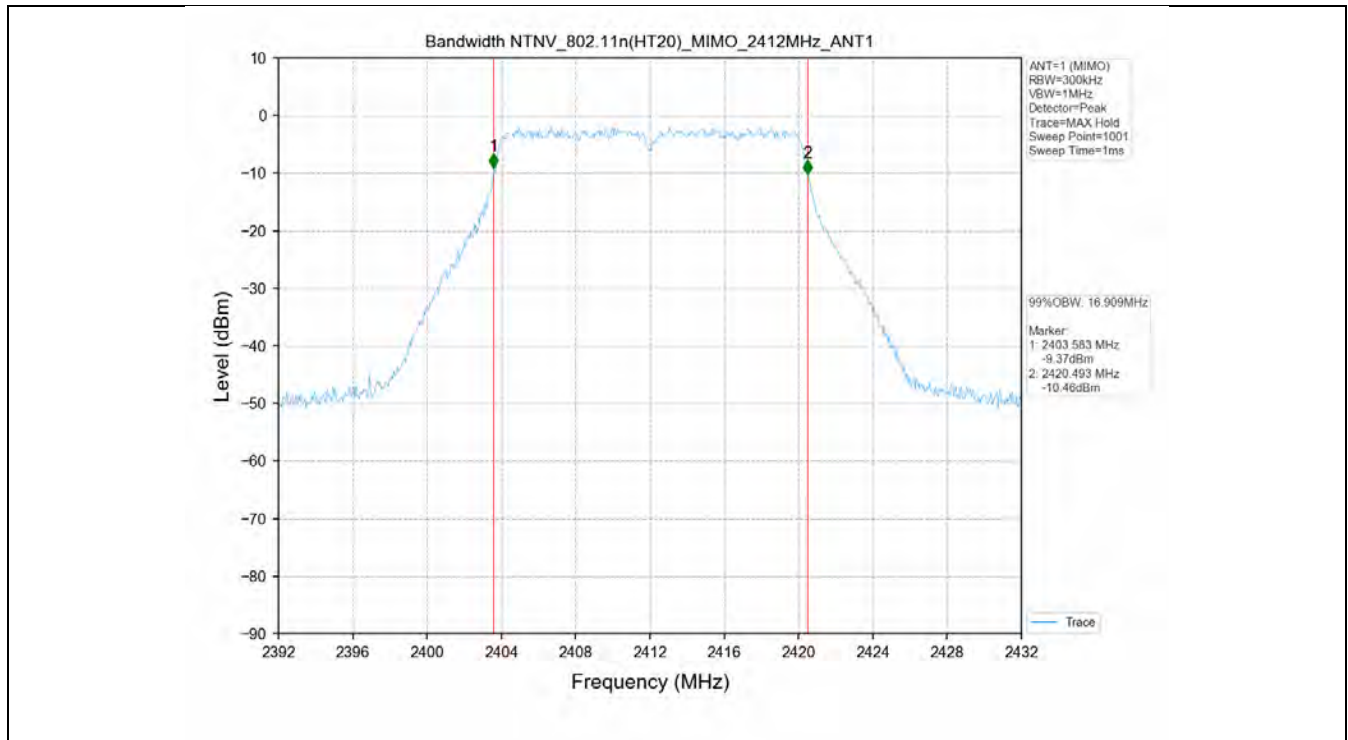


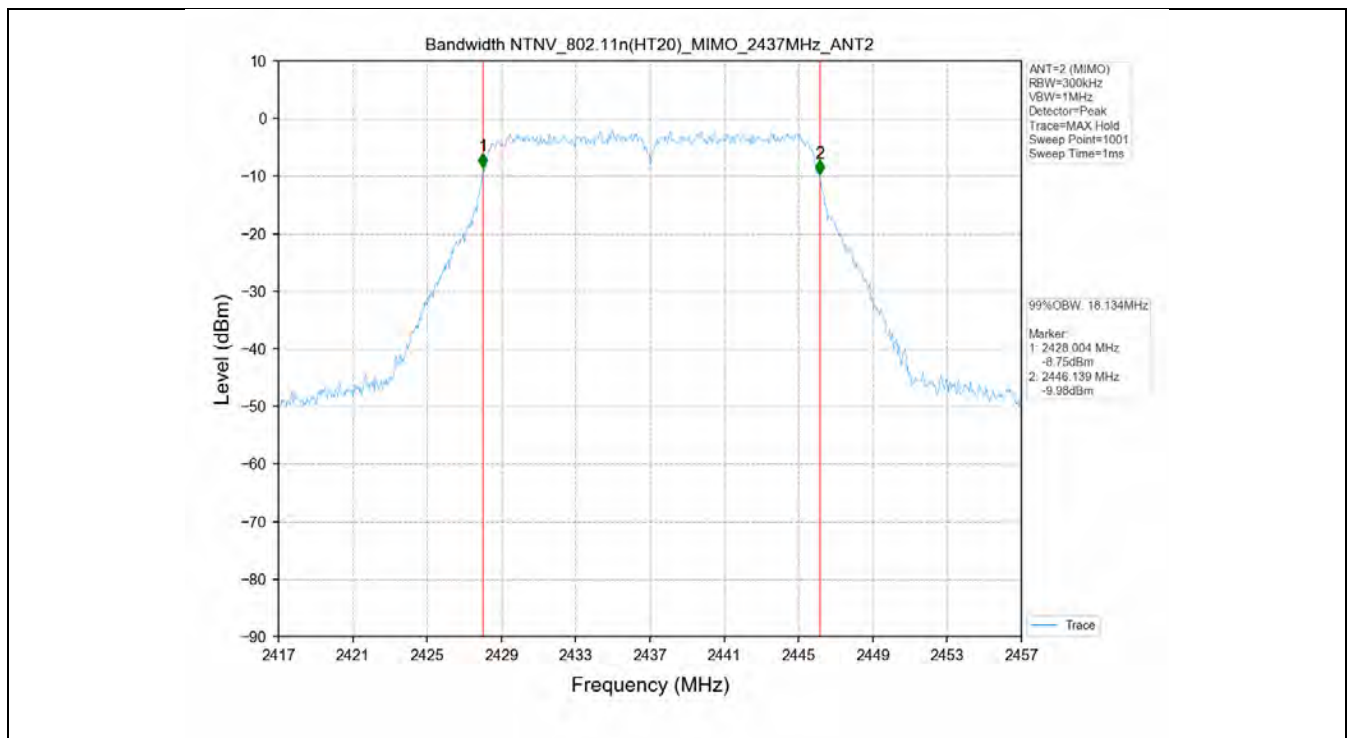
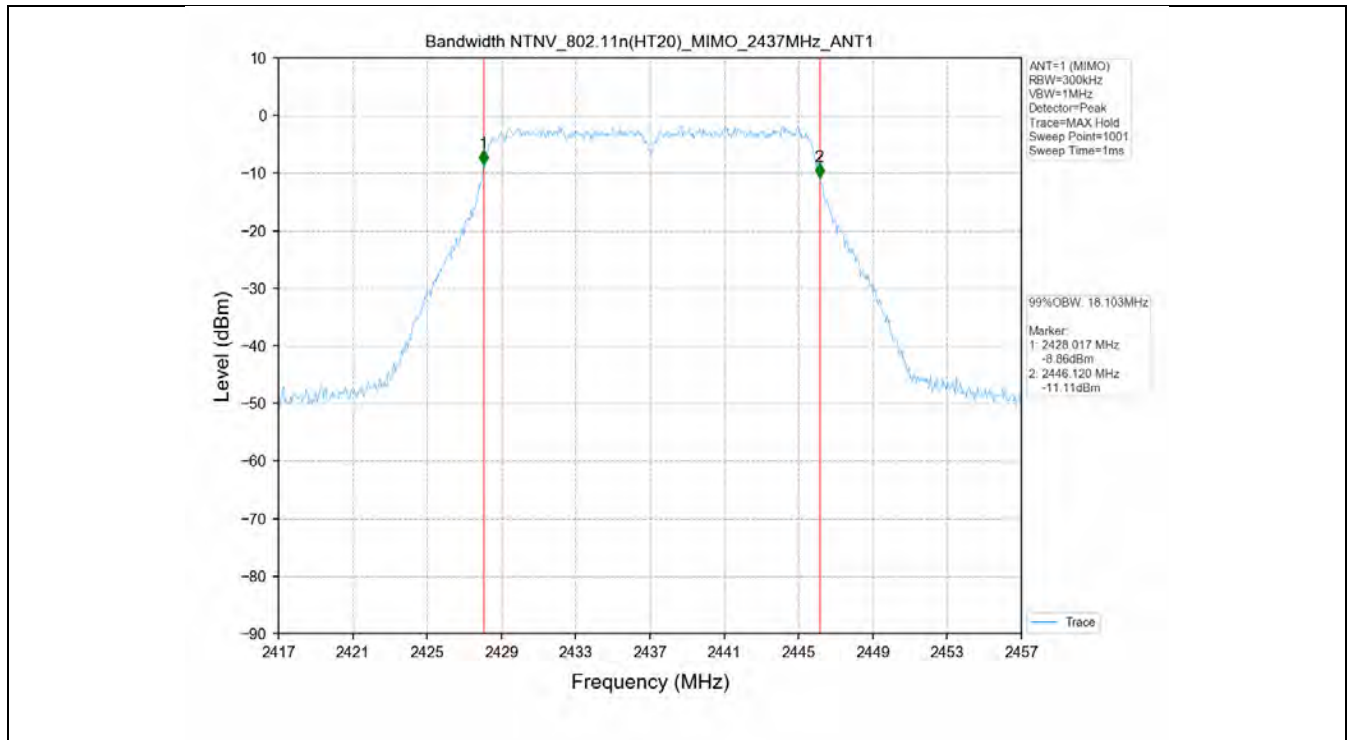


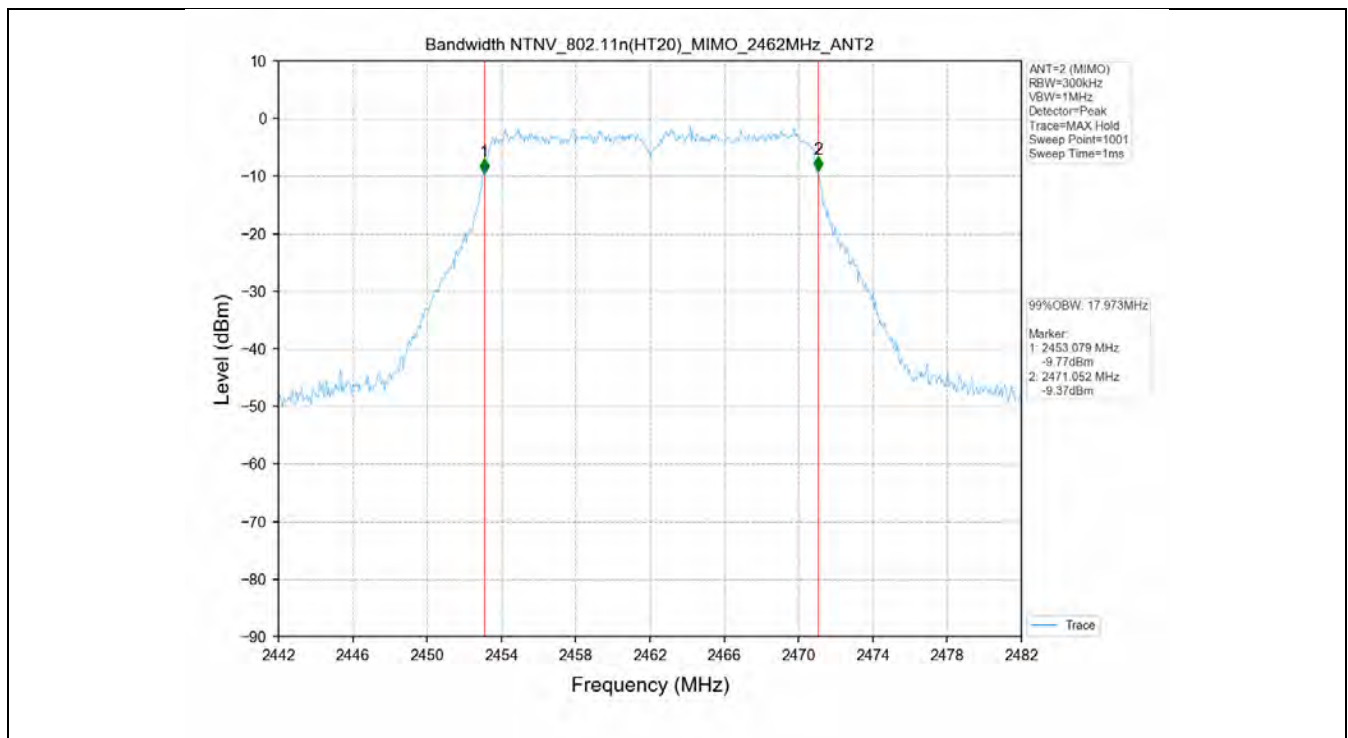
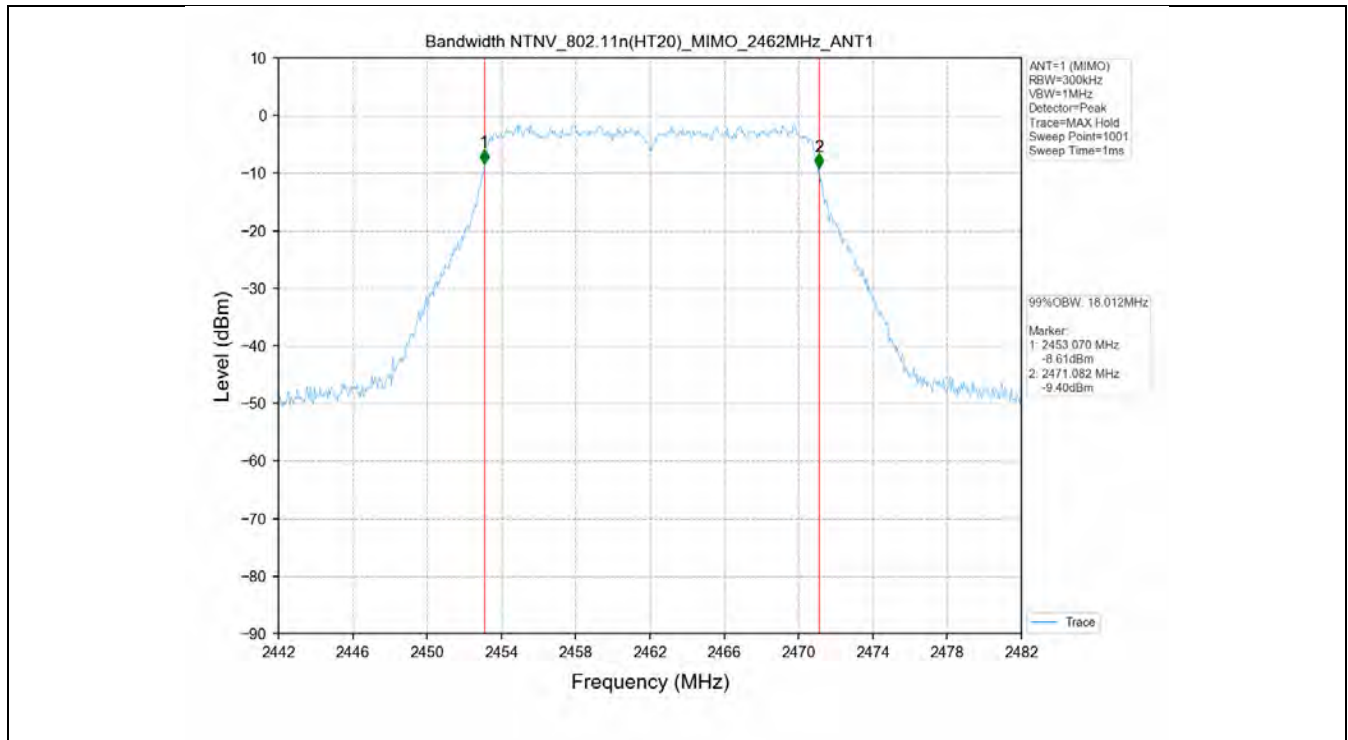


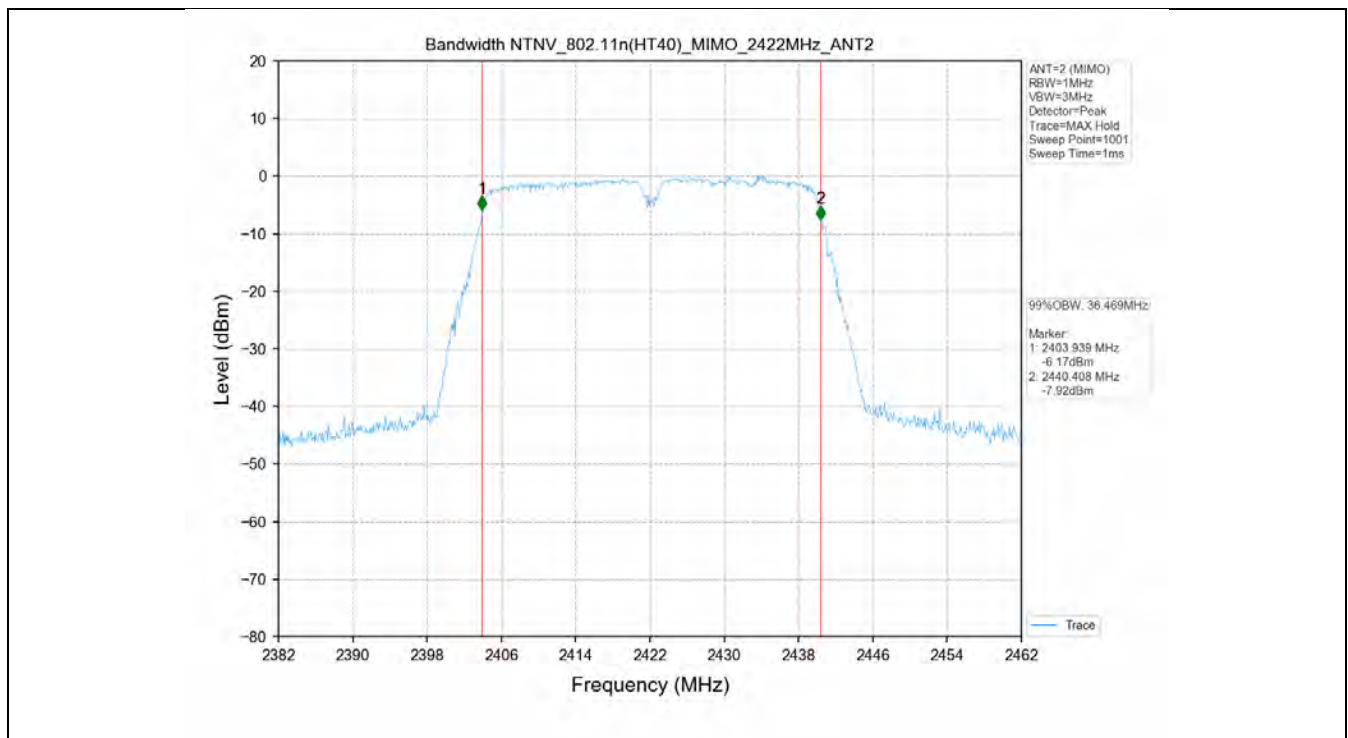
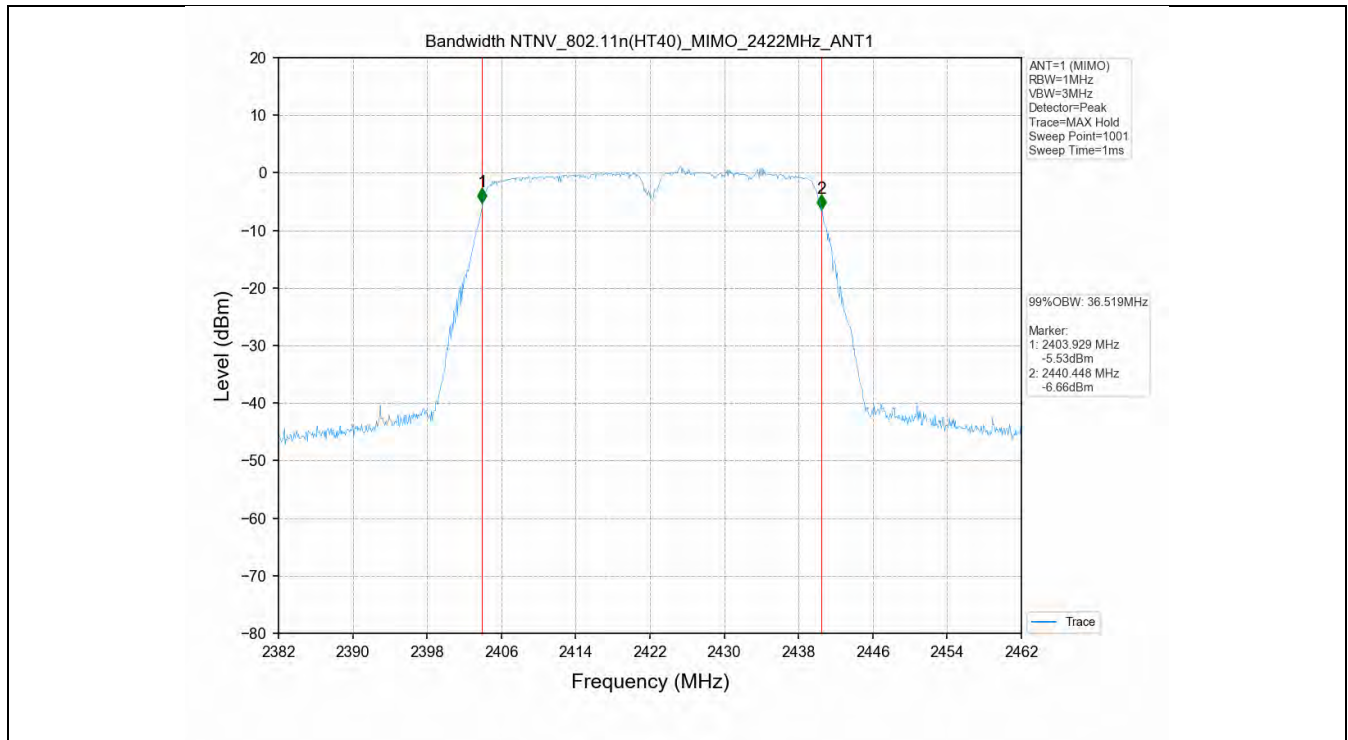


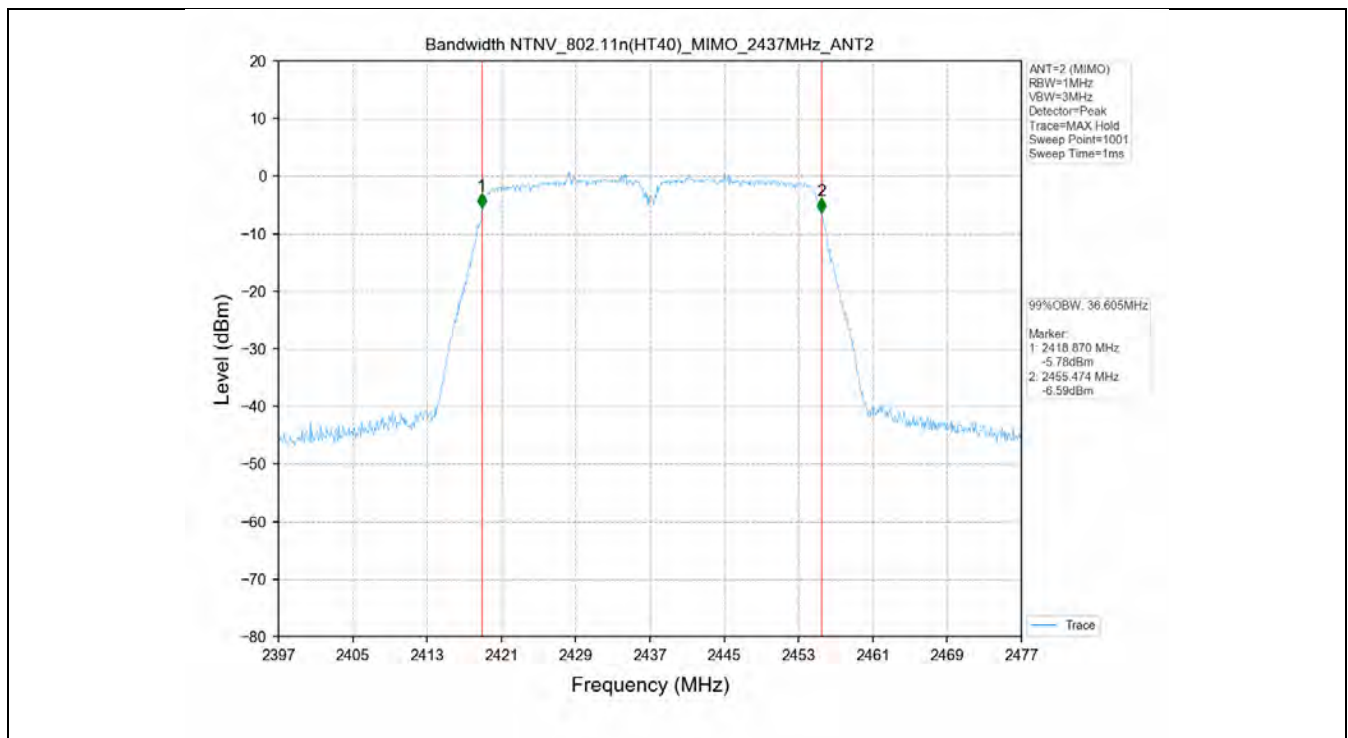
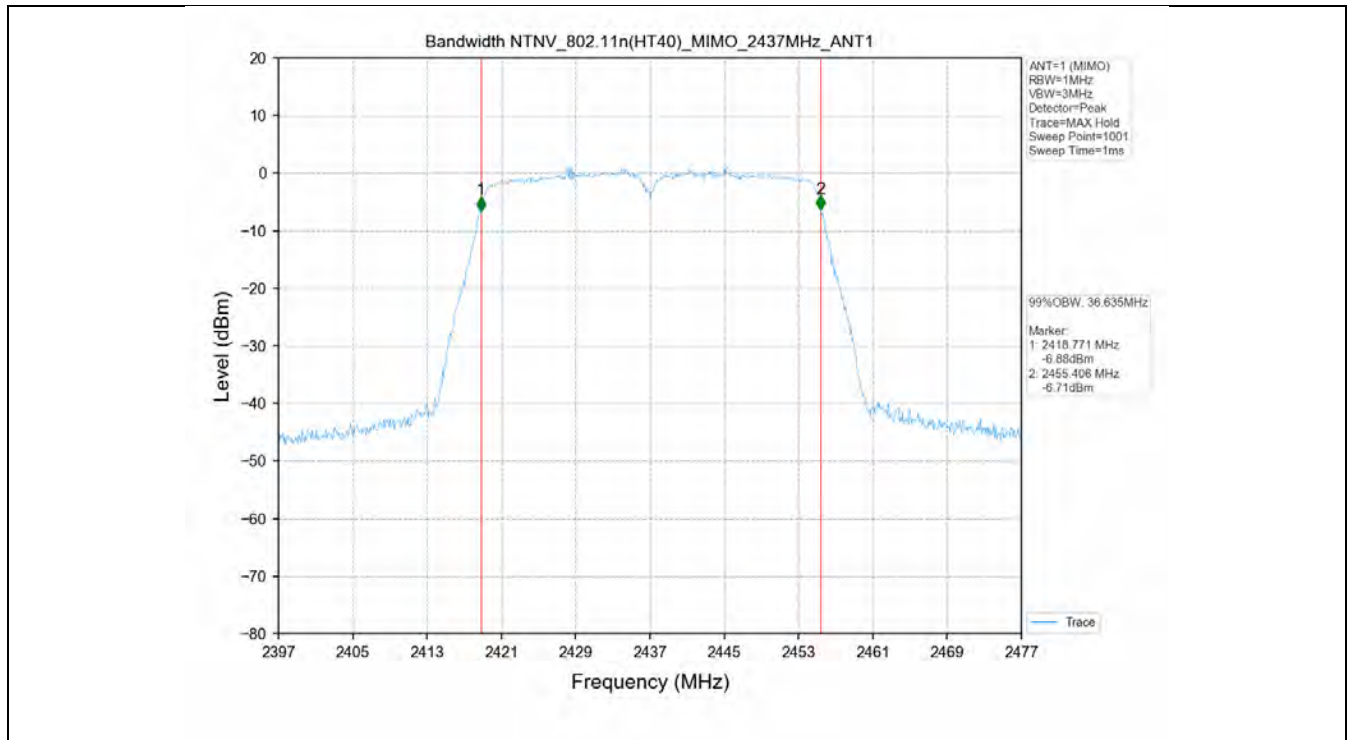


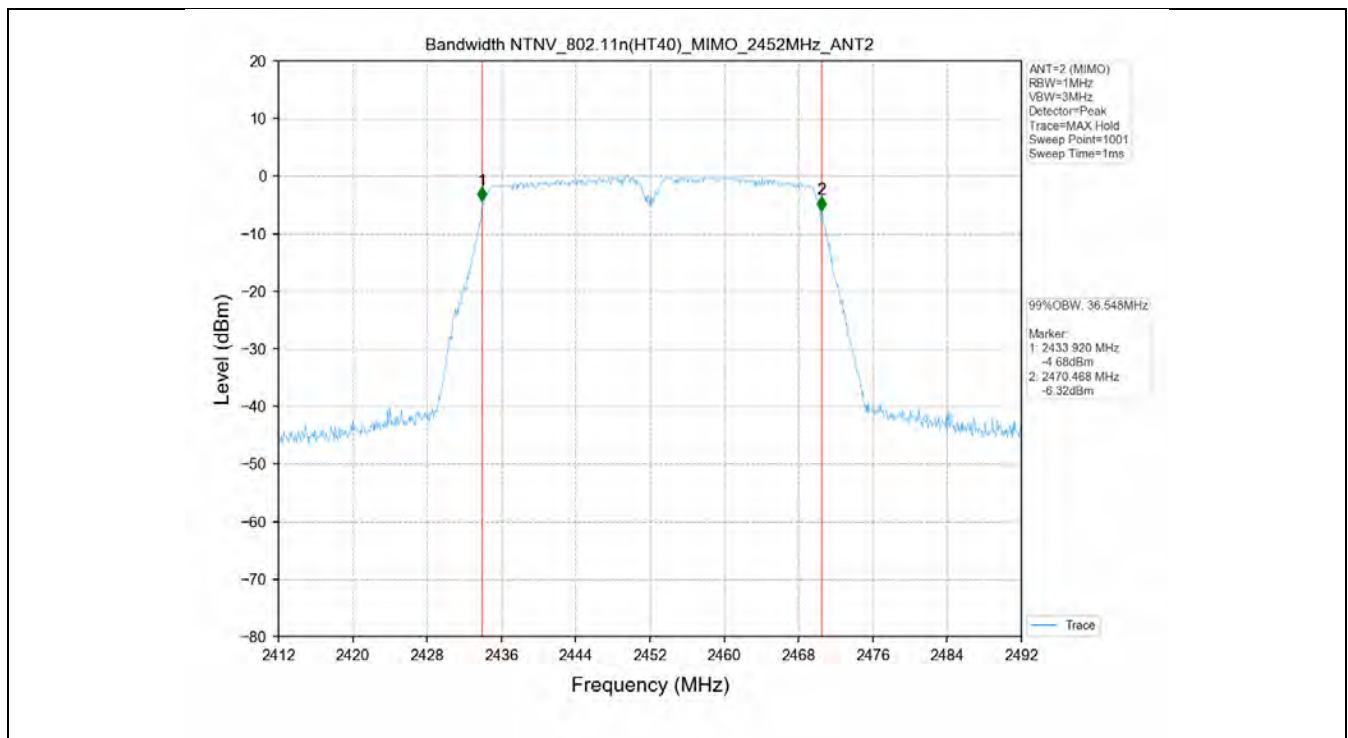
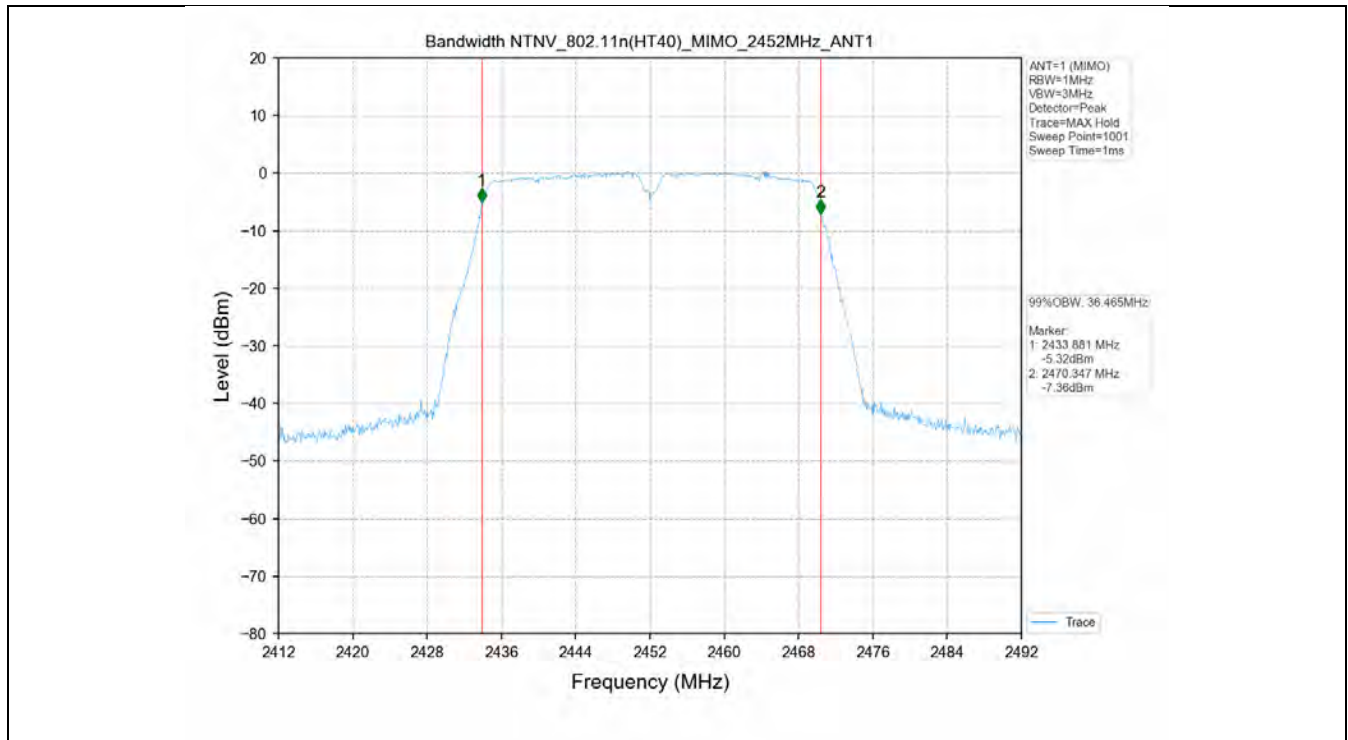












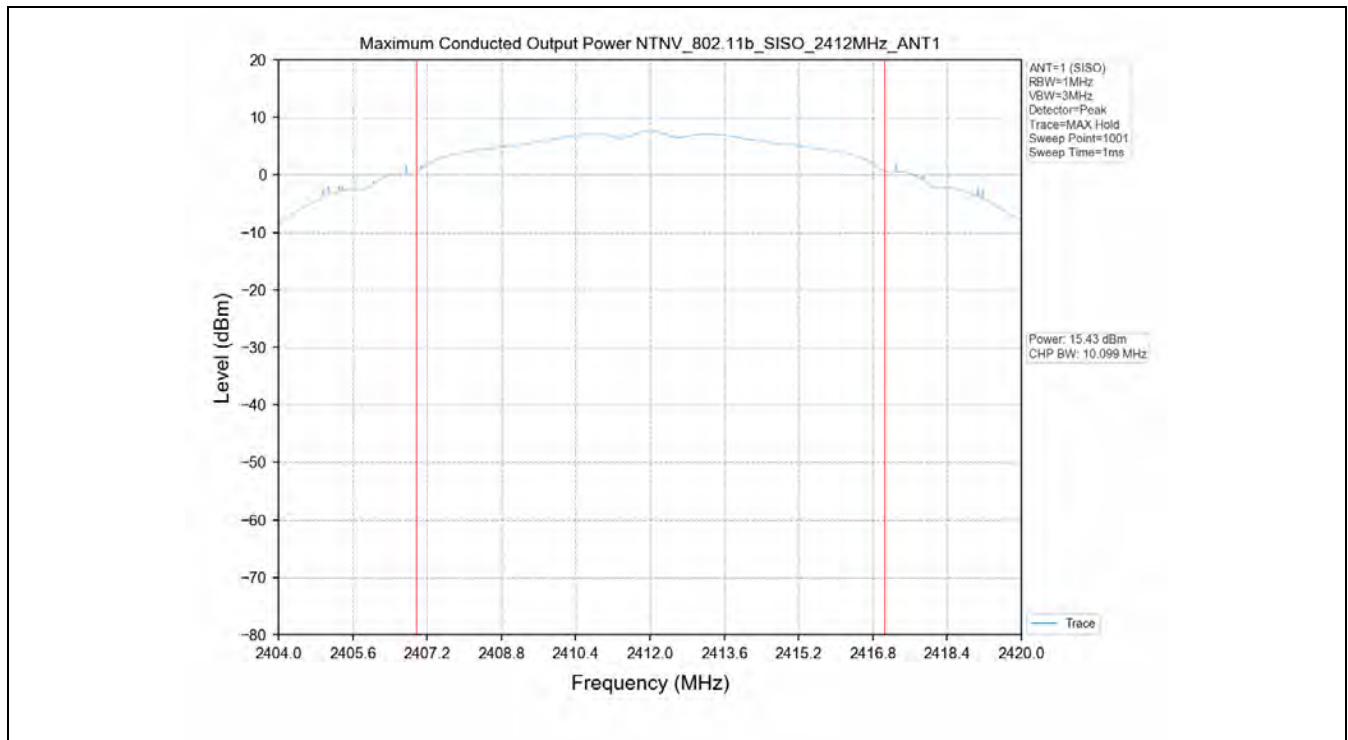


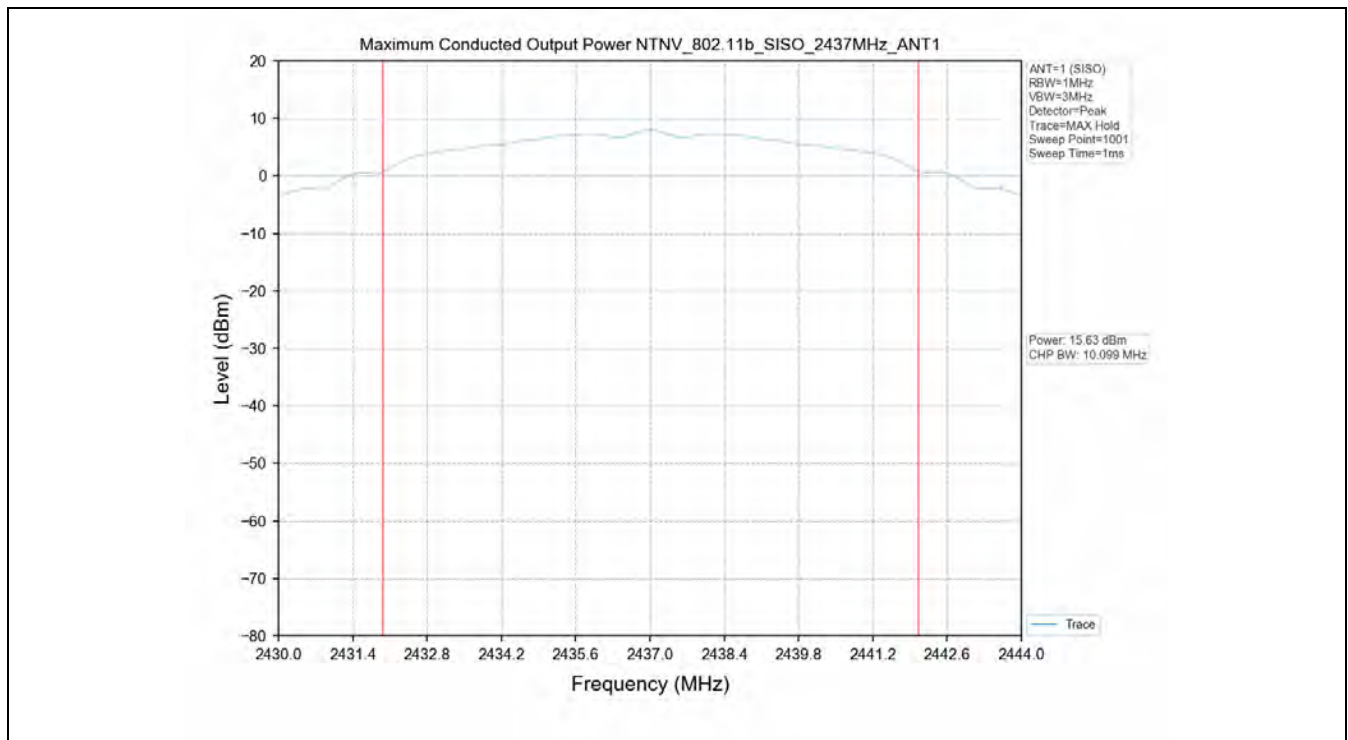
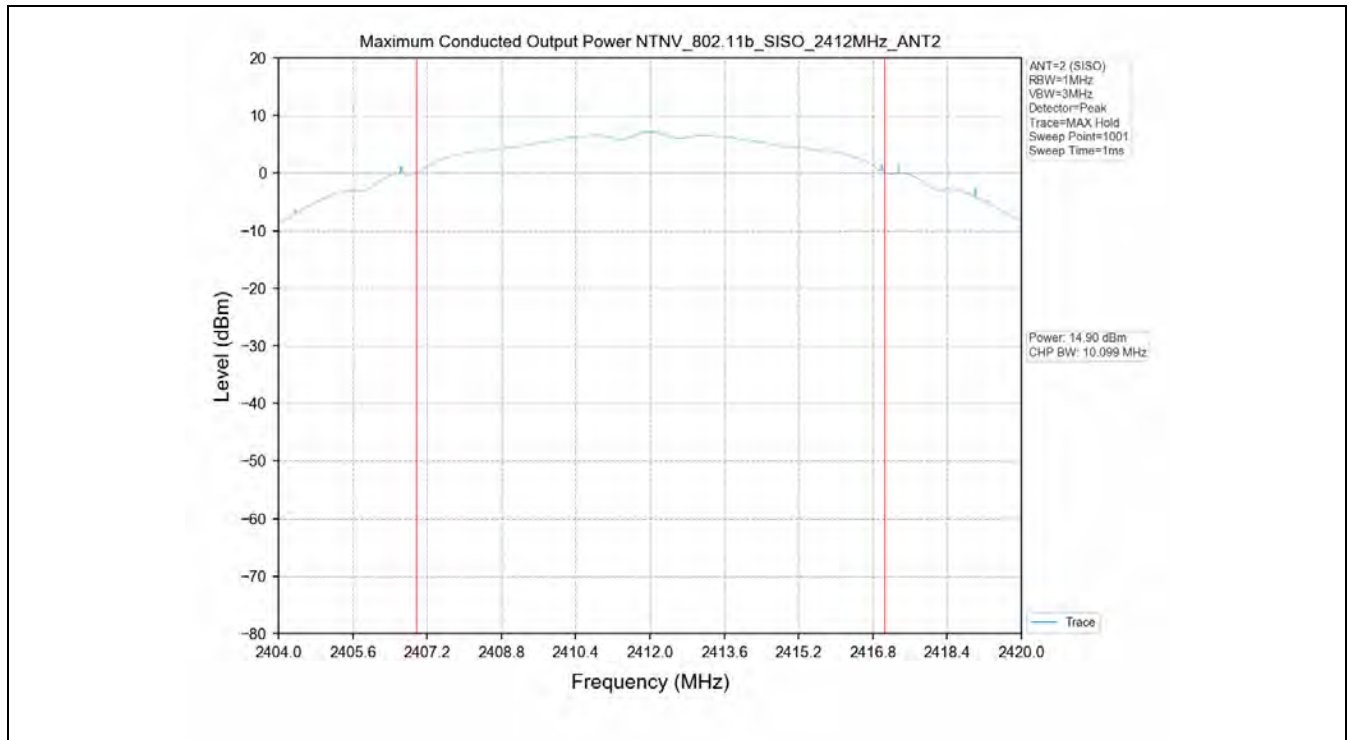
3. Maximum Conducted Output Power

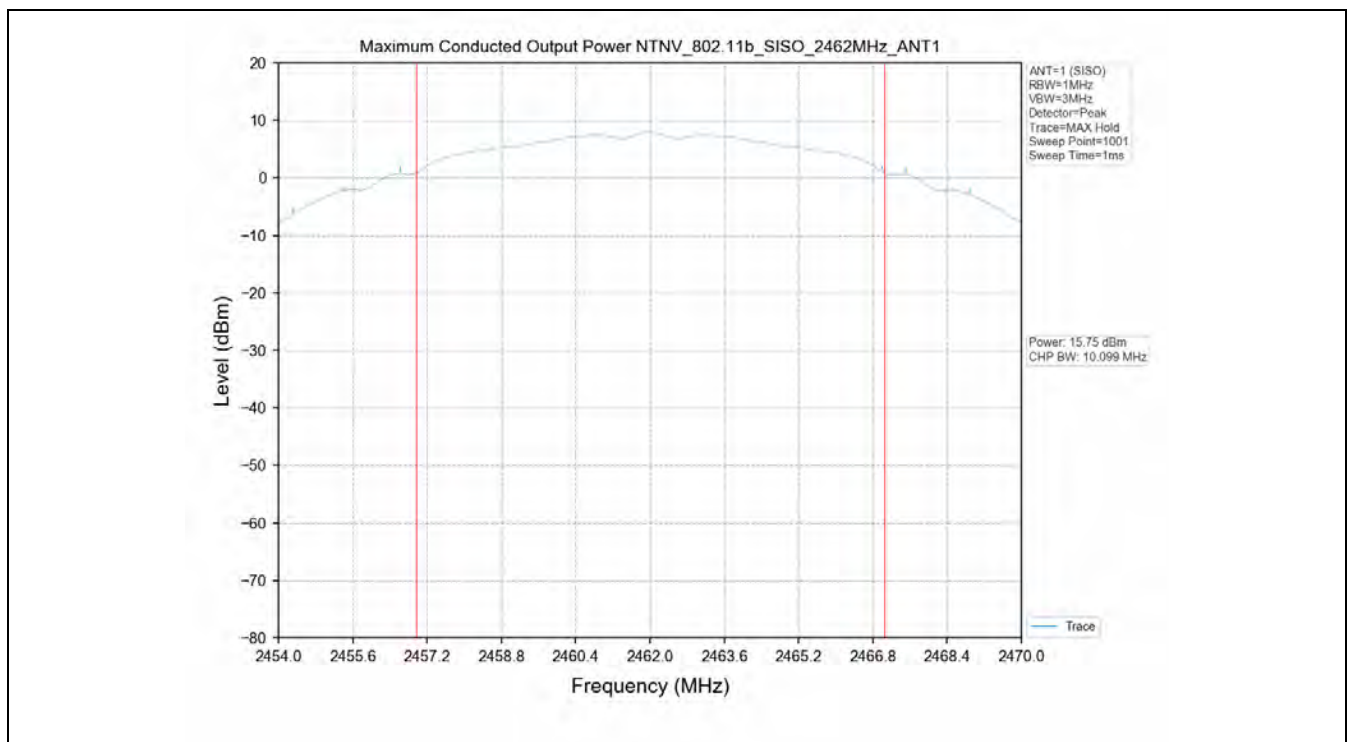
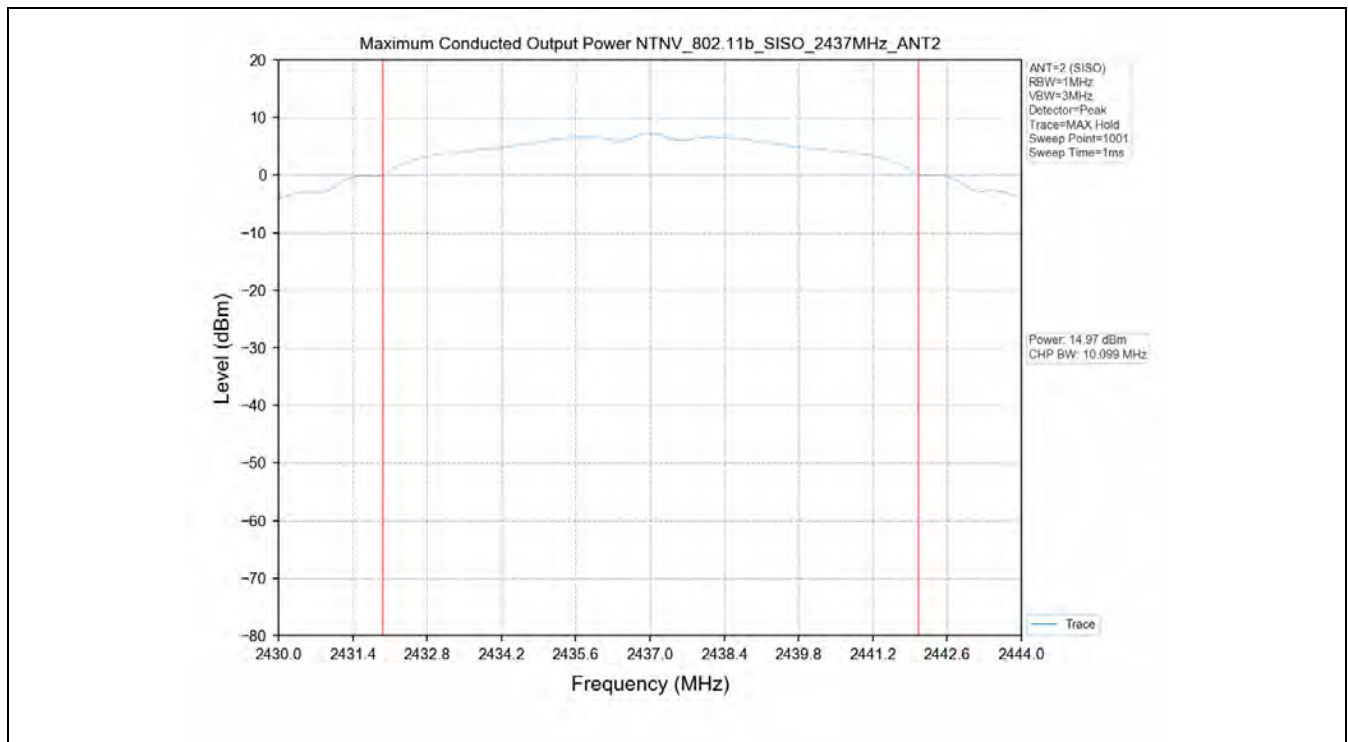
3.1 Test Result

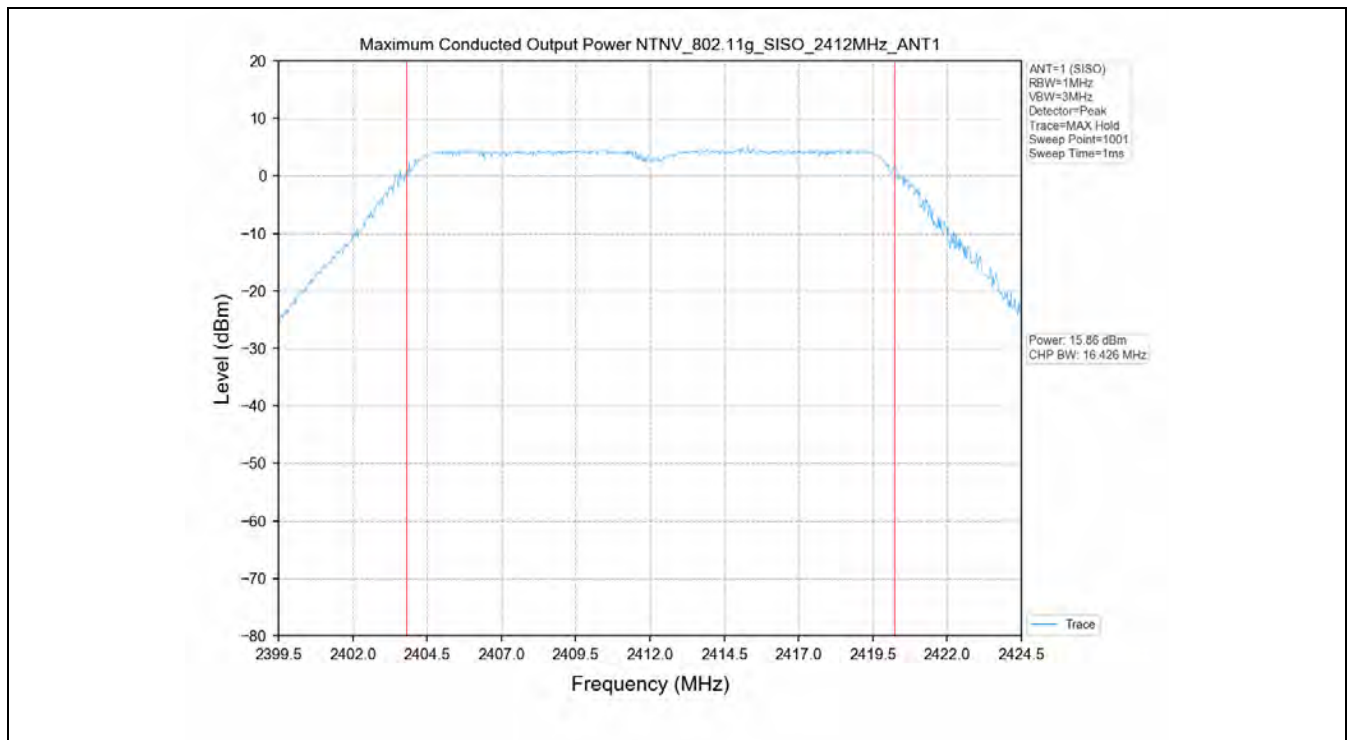
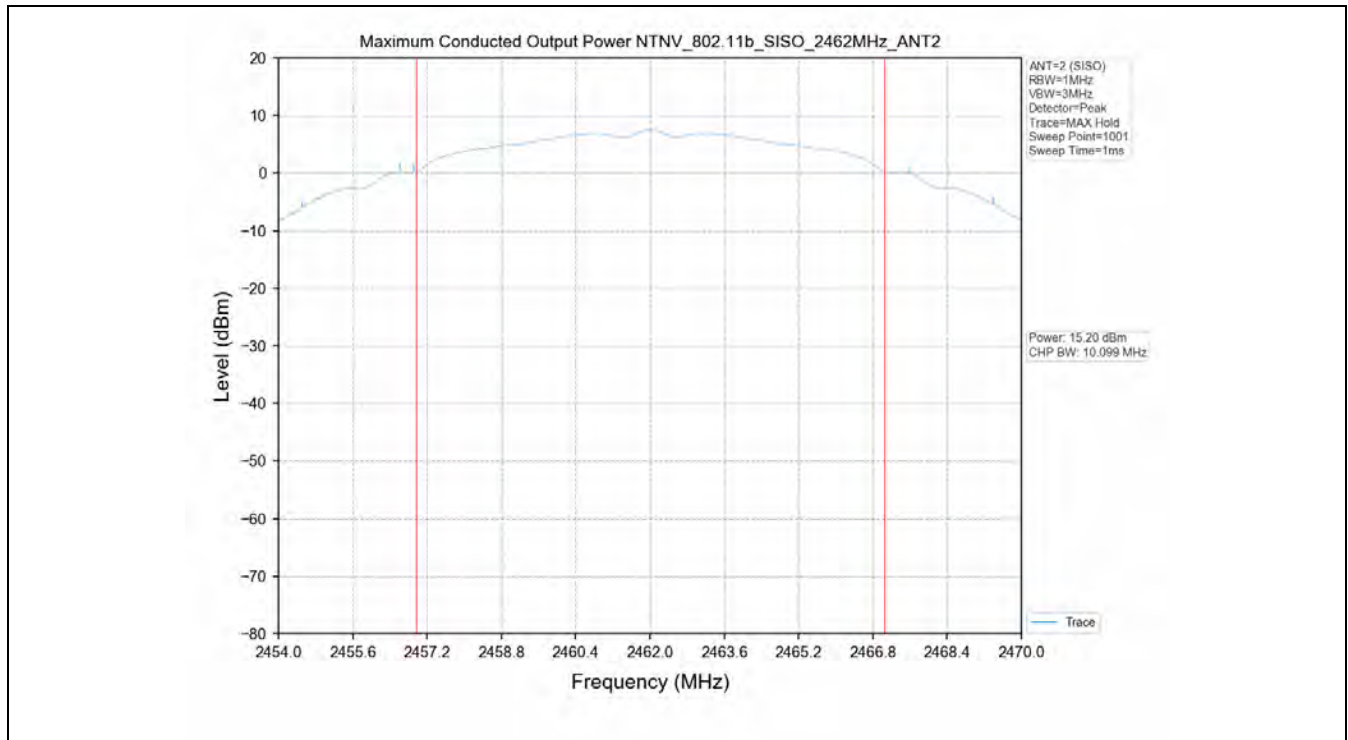
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	15.43	14.90	/	30	PASS
	2437	SISO	15.63	14.97	/	30	PASS
	2462	SISO	15.75	15.20	/	30	PASS
802.11g	2412	SISO	15.86	15.35	/	30	PASS
	2437	SISO	16.13	15.64	/	30	PASS
	2462	SISO	16.34	15.95	/	30	PASS
802.11n(HT20)	2412	MIMO	13.84	13.52	16.69	30	PASS
	2437	MIMO	14.19	13.83	17.02	30	PASS
	2462	MIMO	14.29	14.05	17.18	30	PASS
802.11n(HT40)	2422	MIMO	14.36	13.81	17.10	30	PASS
	2437	MIMO	14.43	13.97	17.22	30	PASS
	2452	MIMO	14.37	13.95	17.18	30	PASS

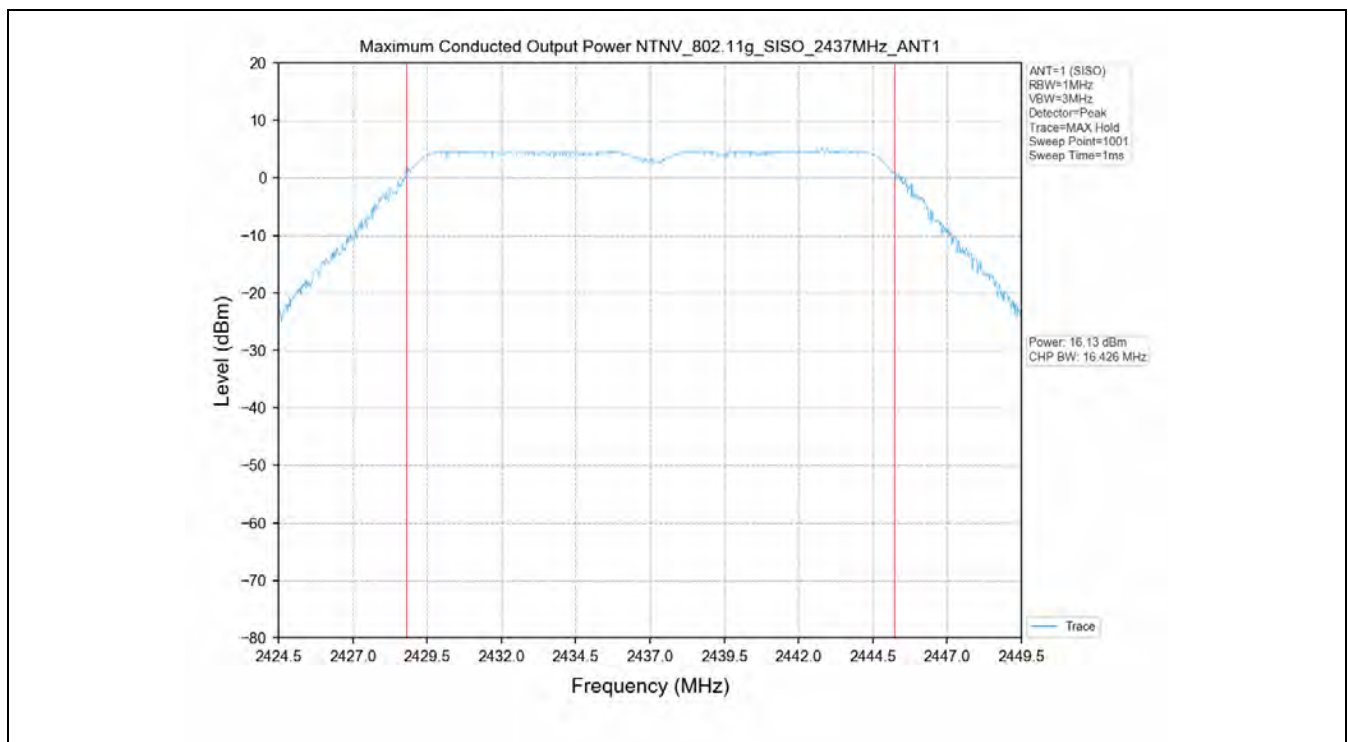
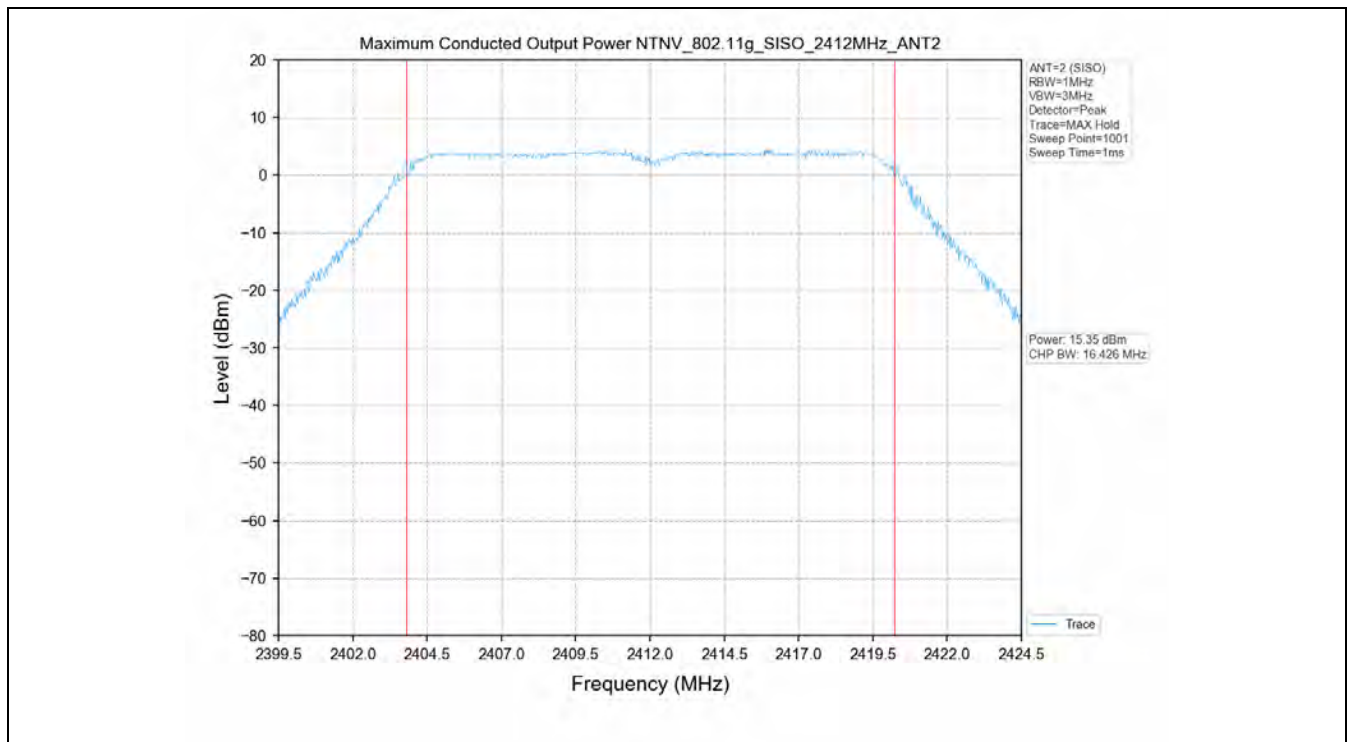
3.2 Test Graph

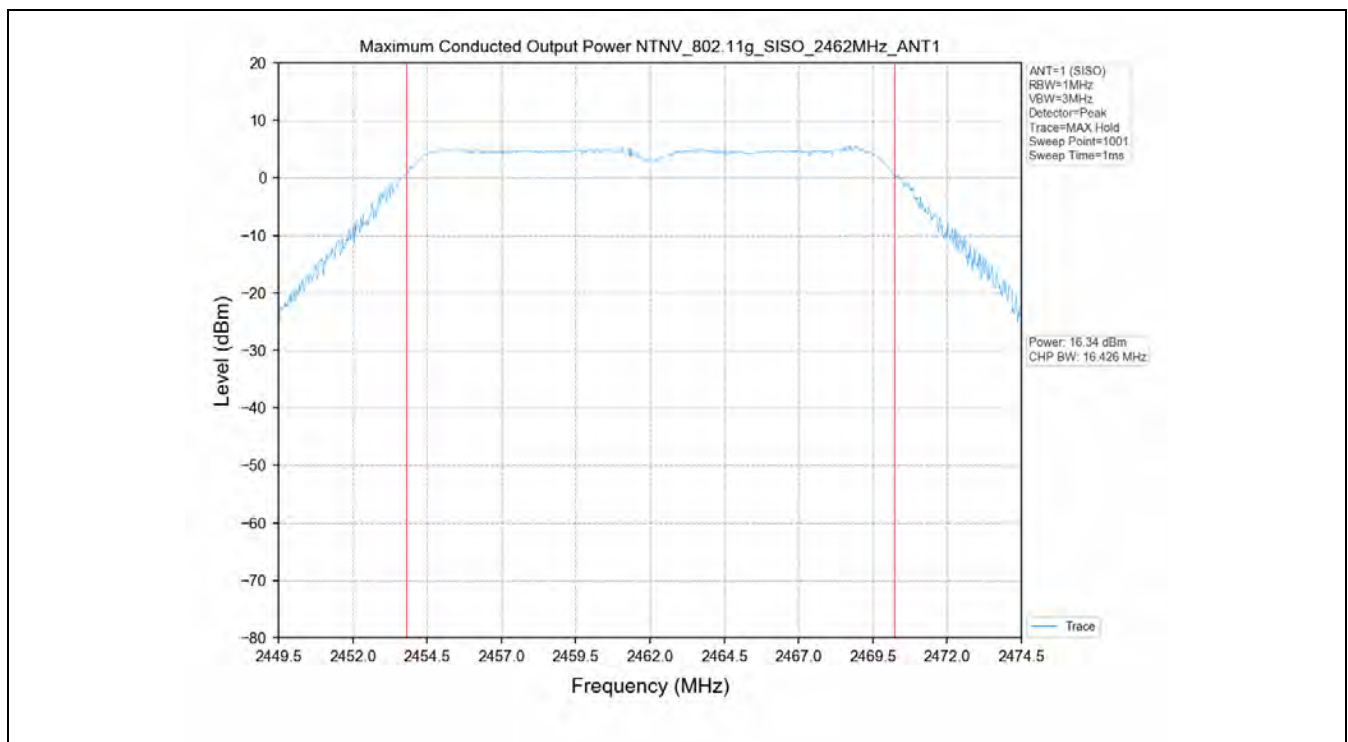
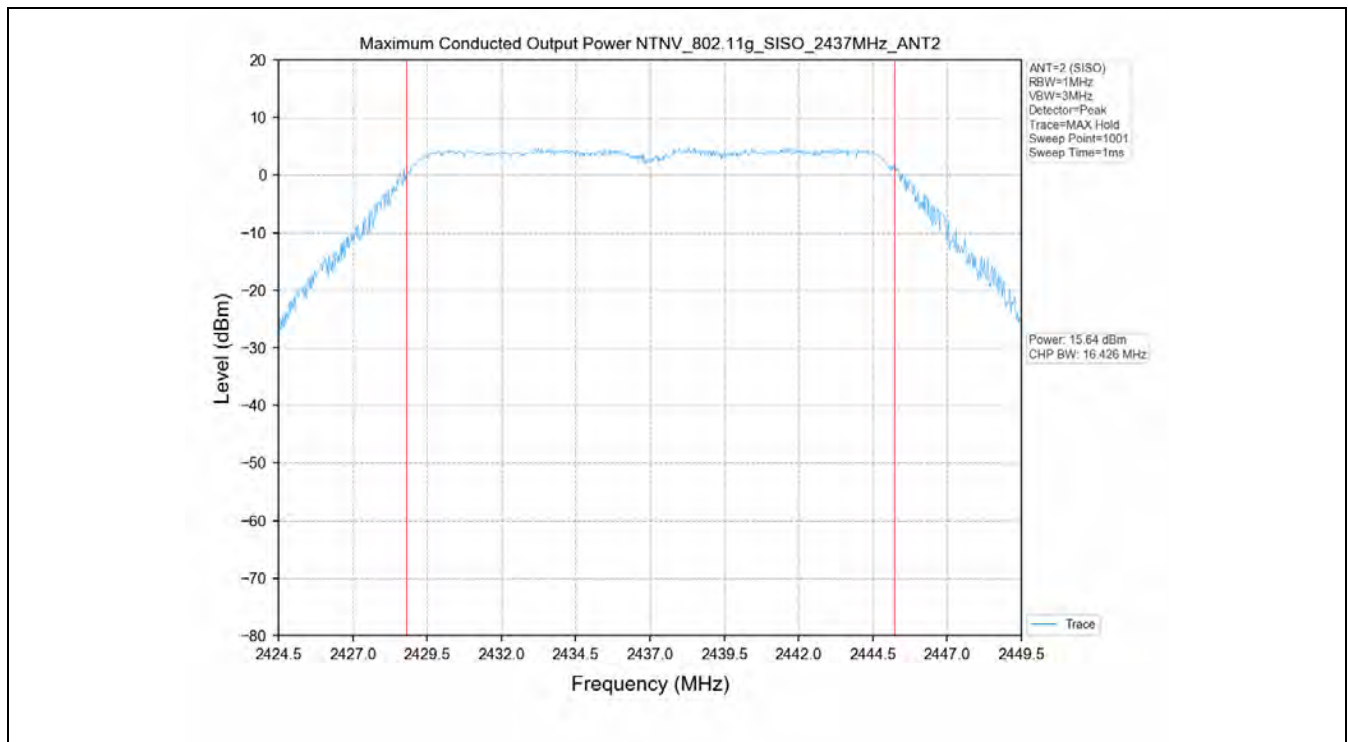


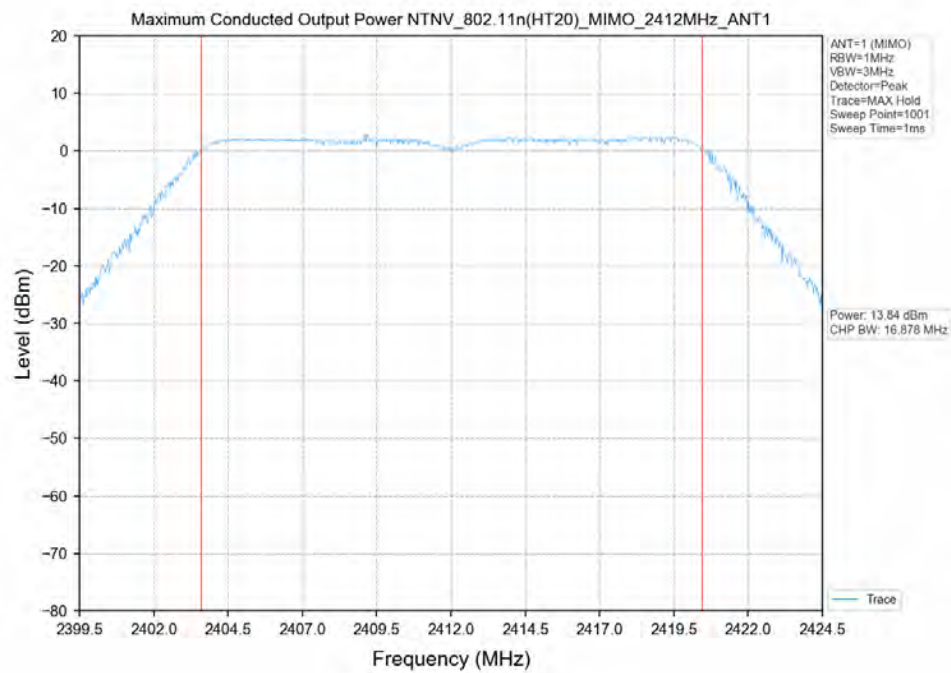
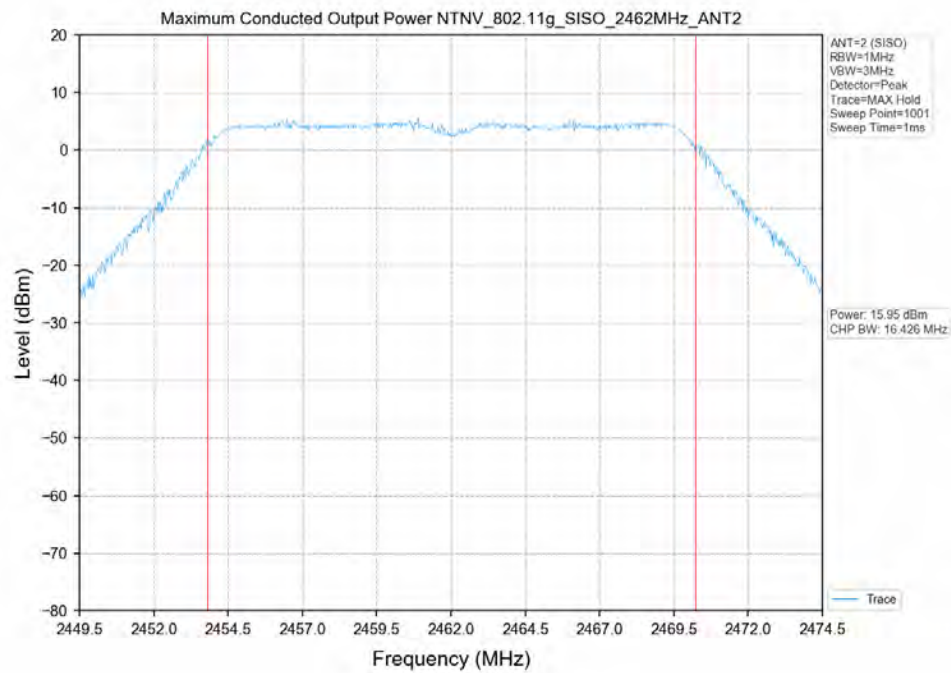


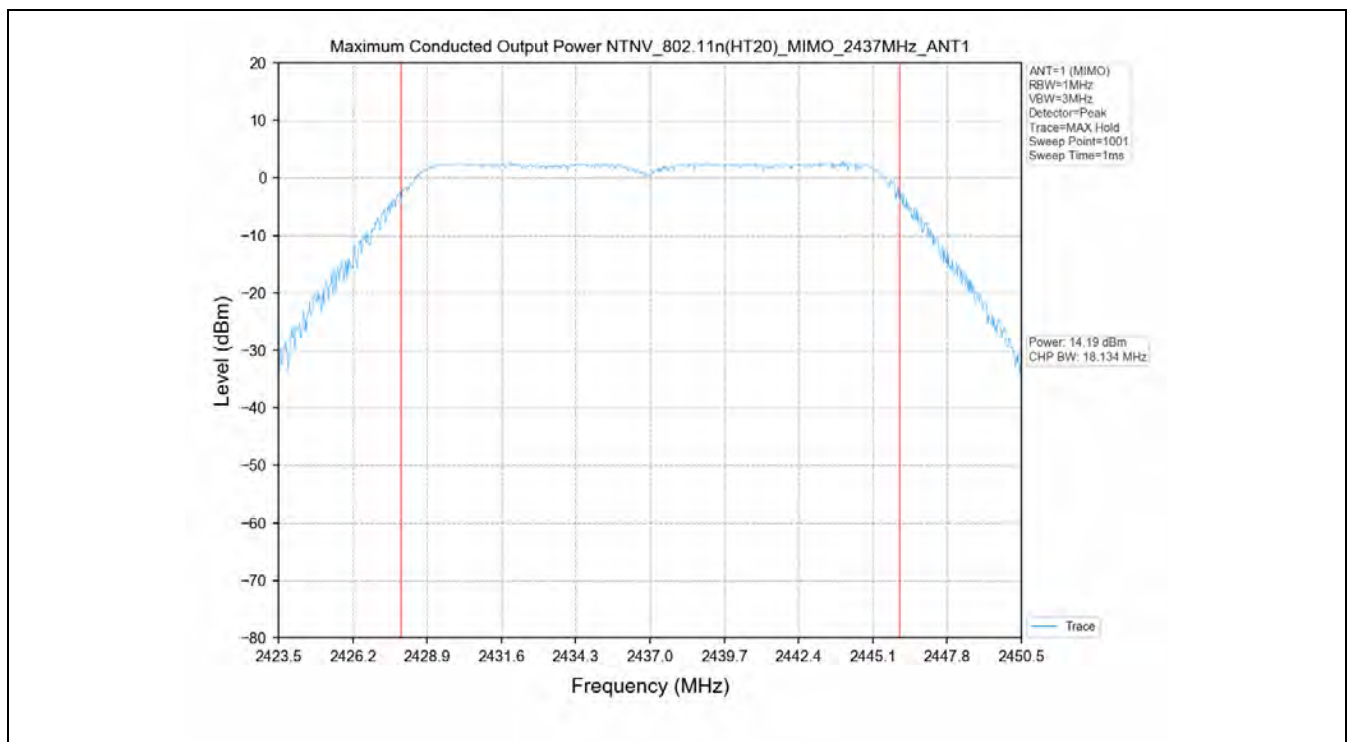
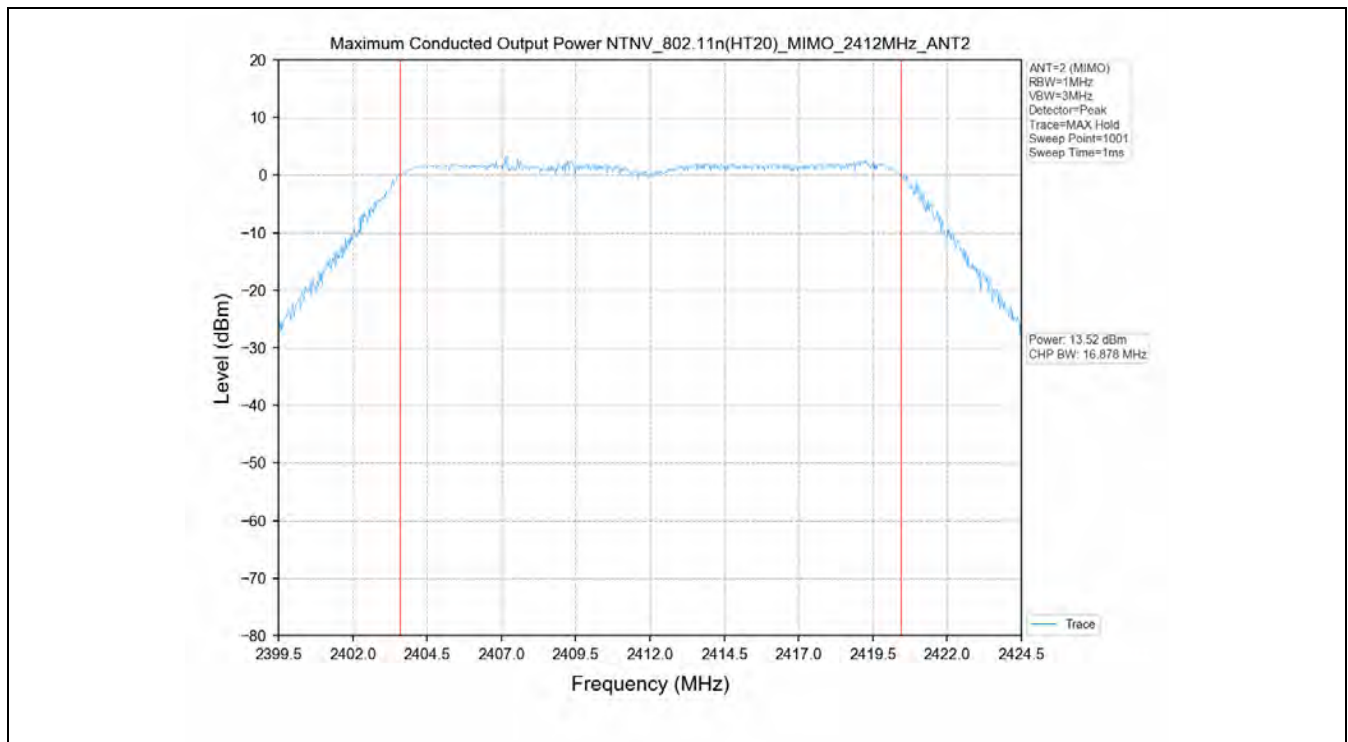


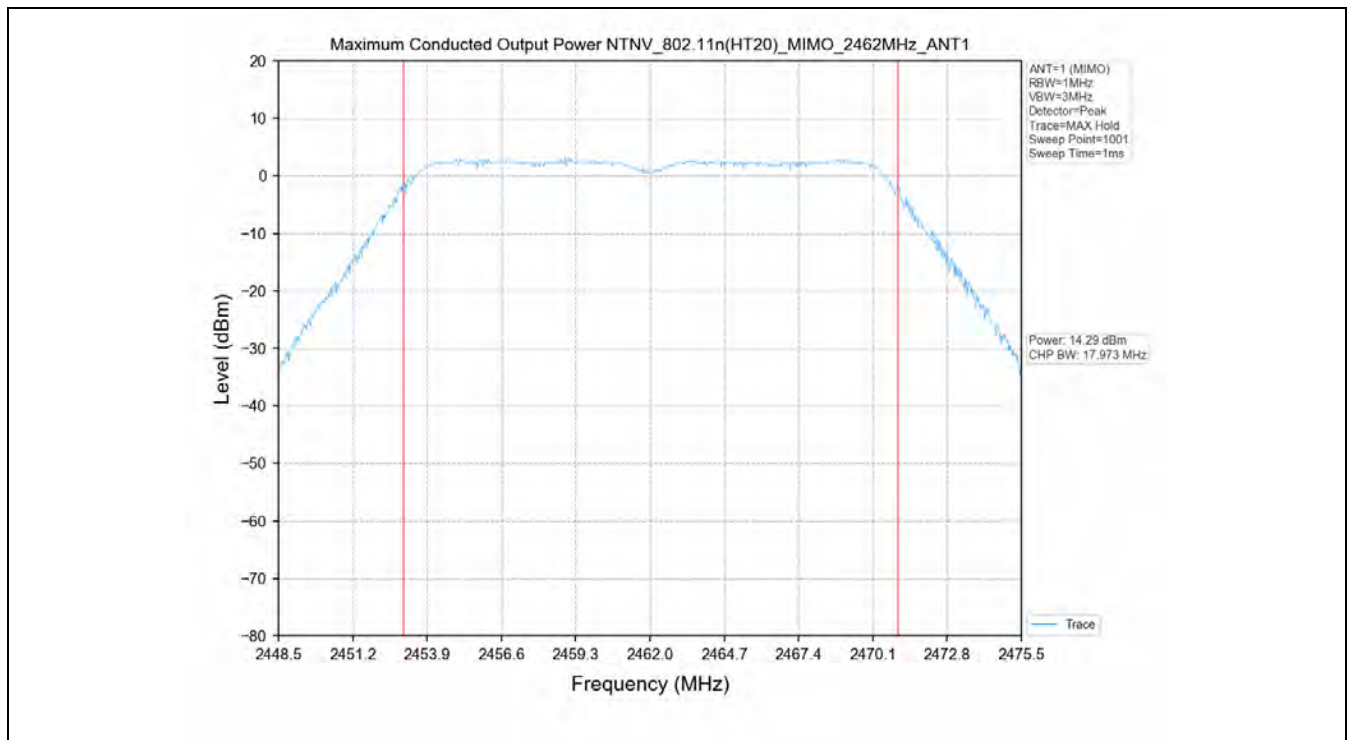
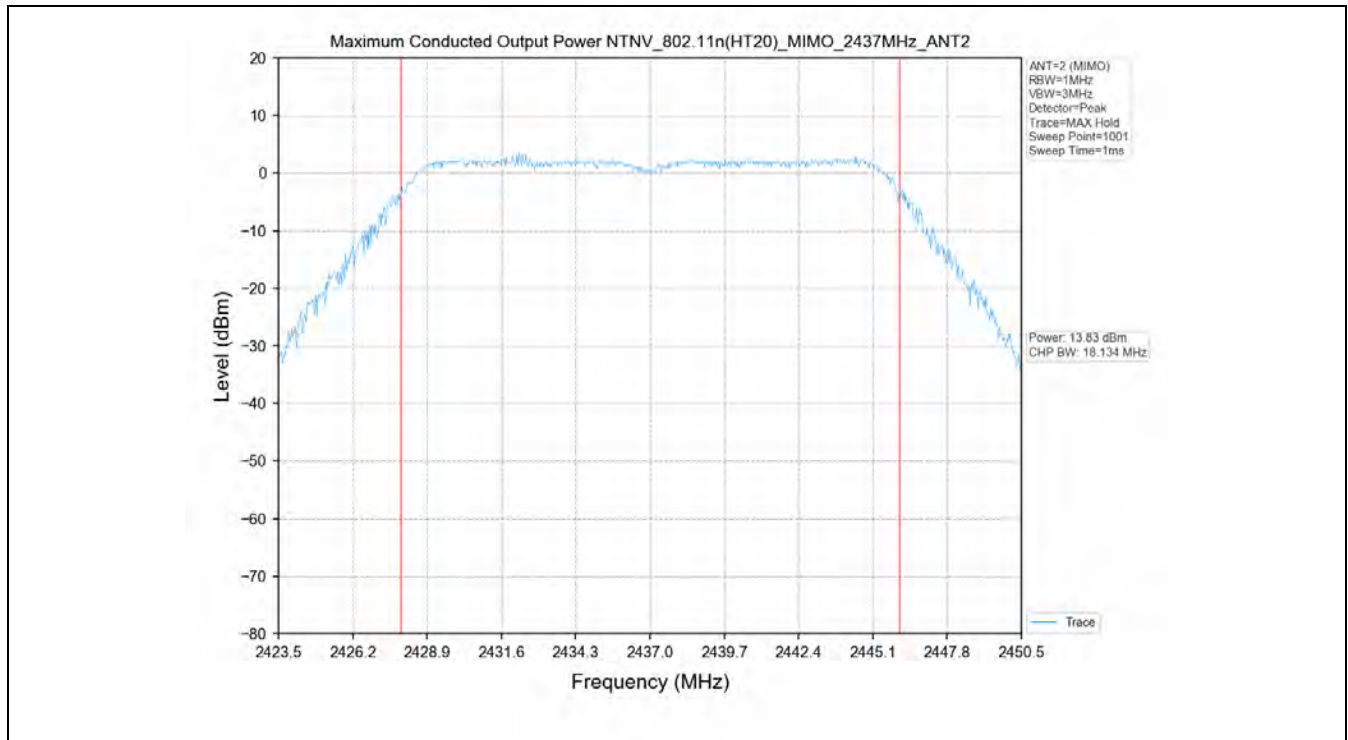


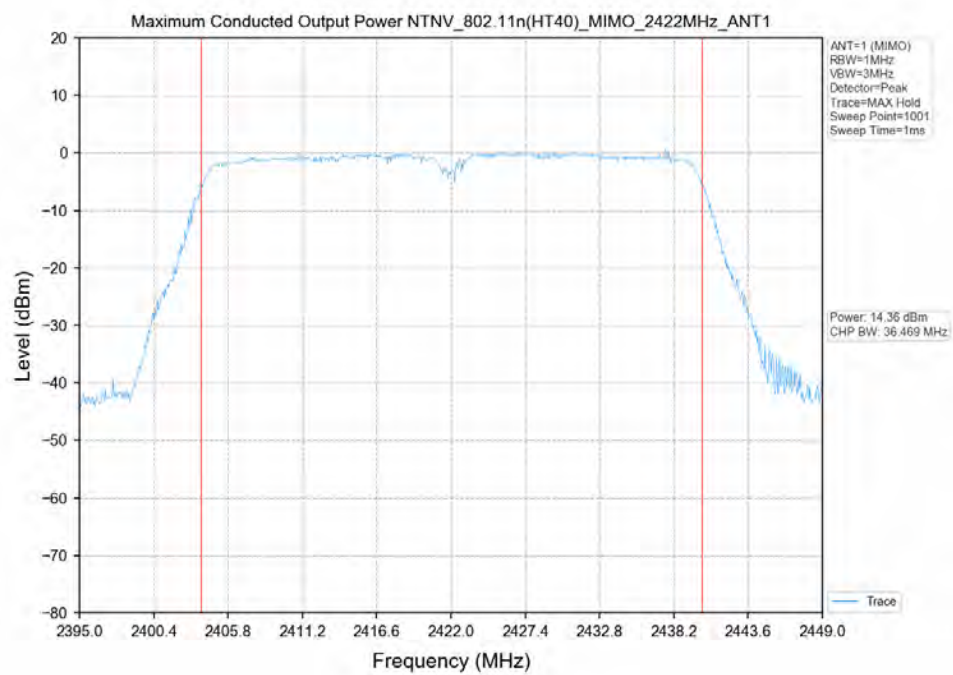
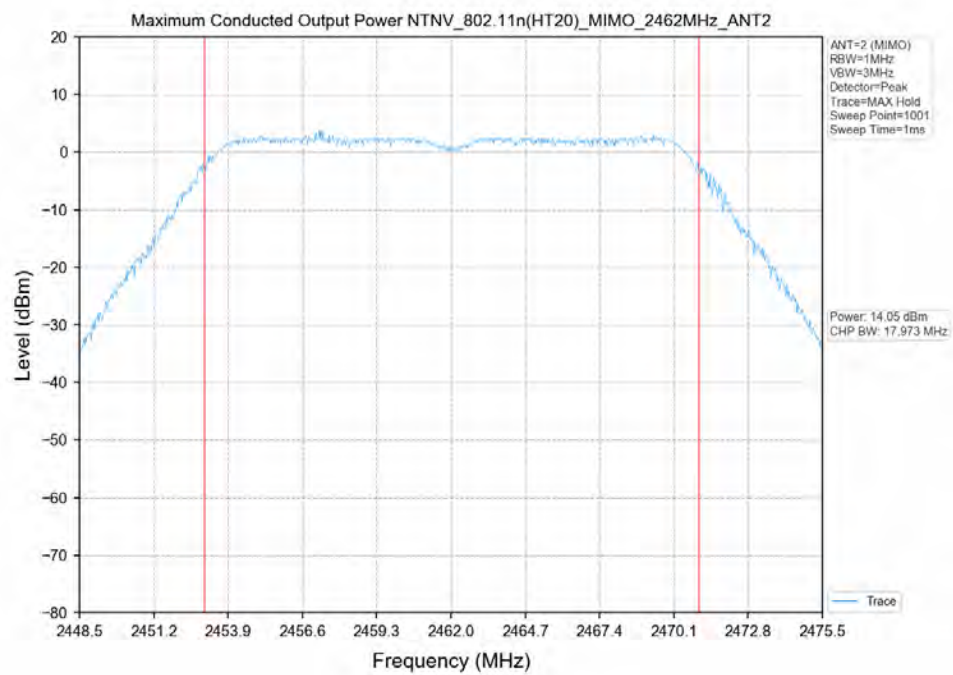


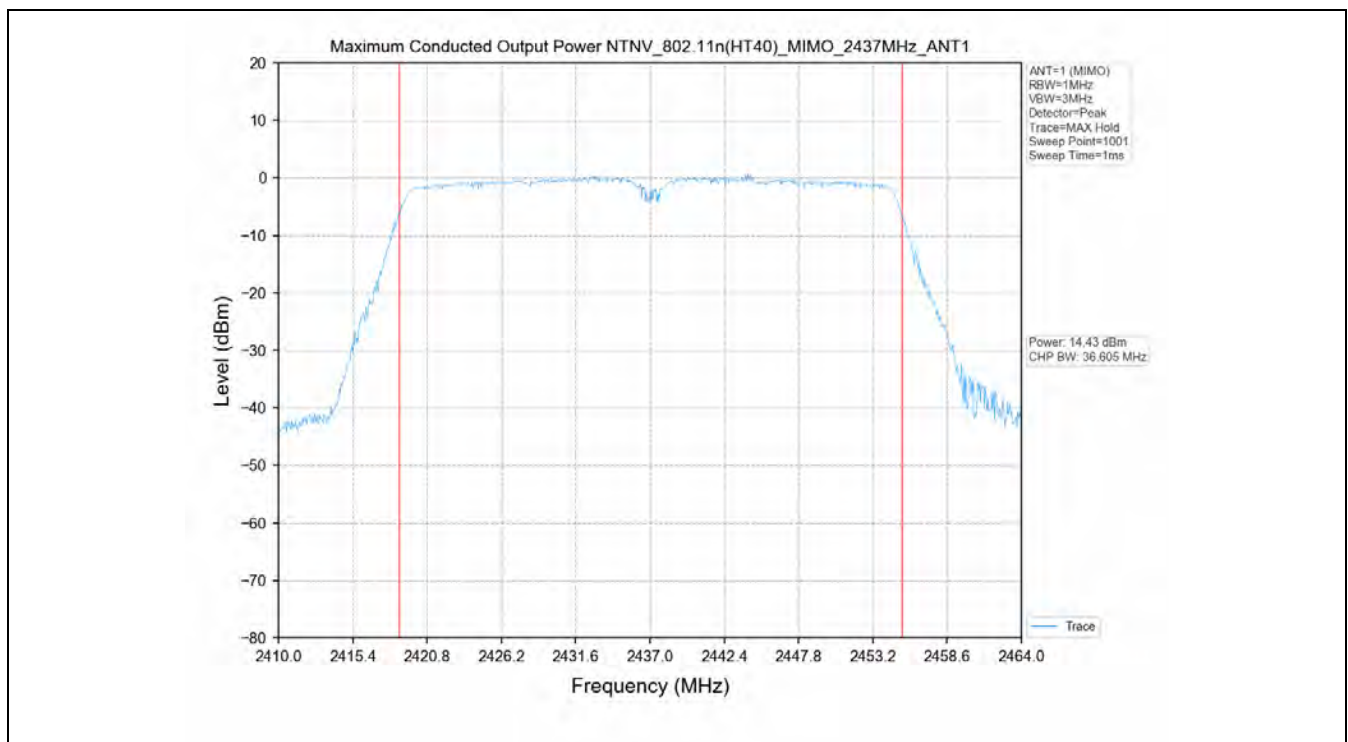
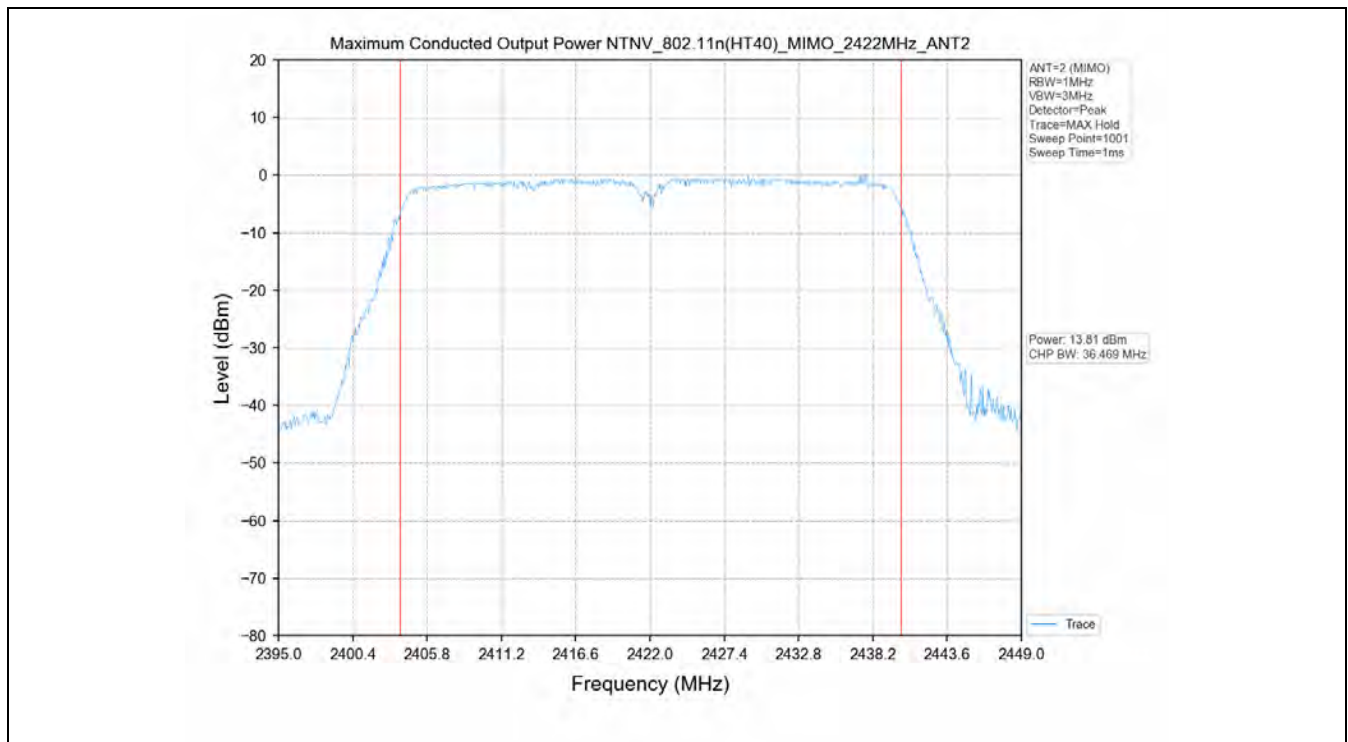


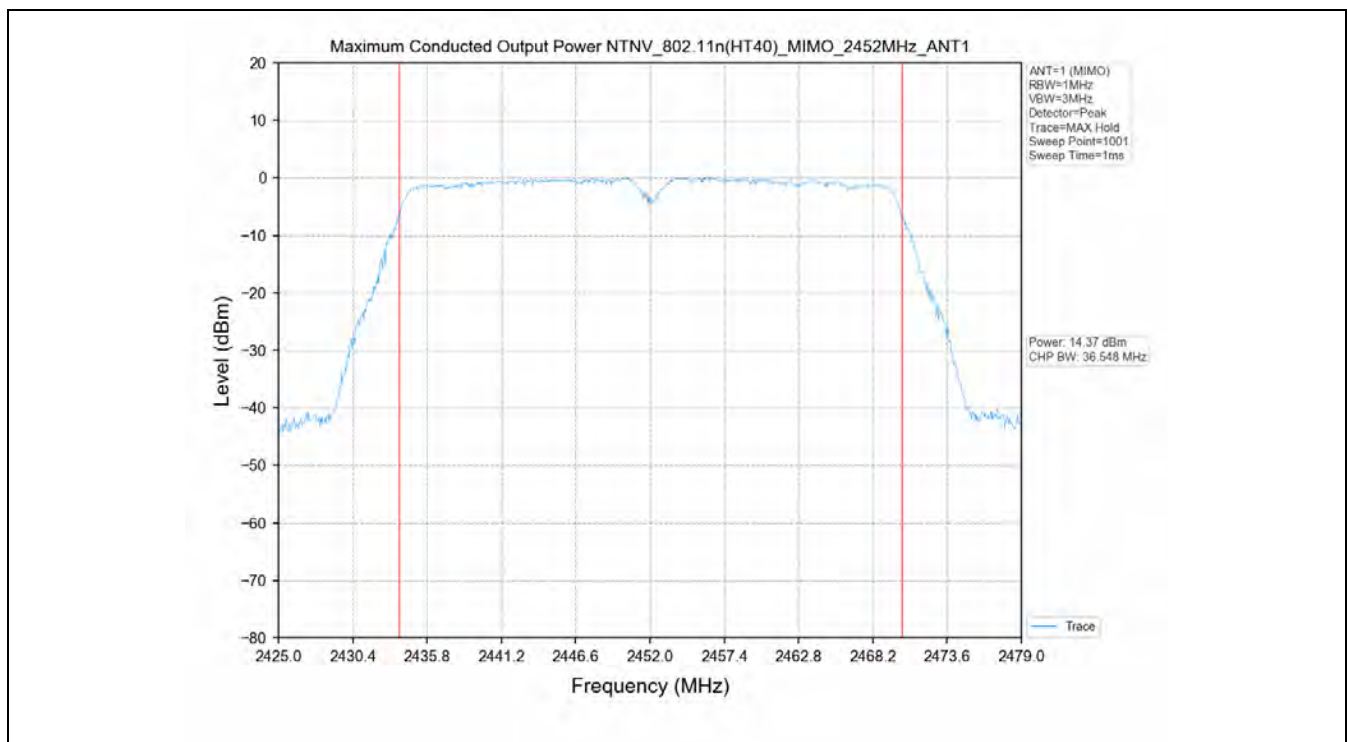
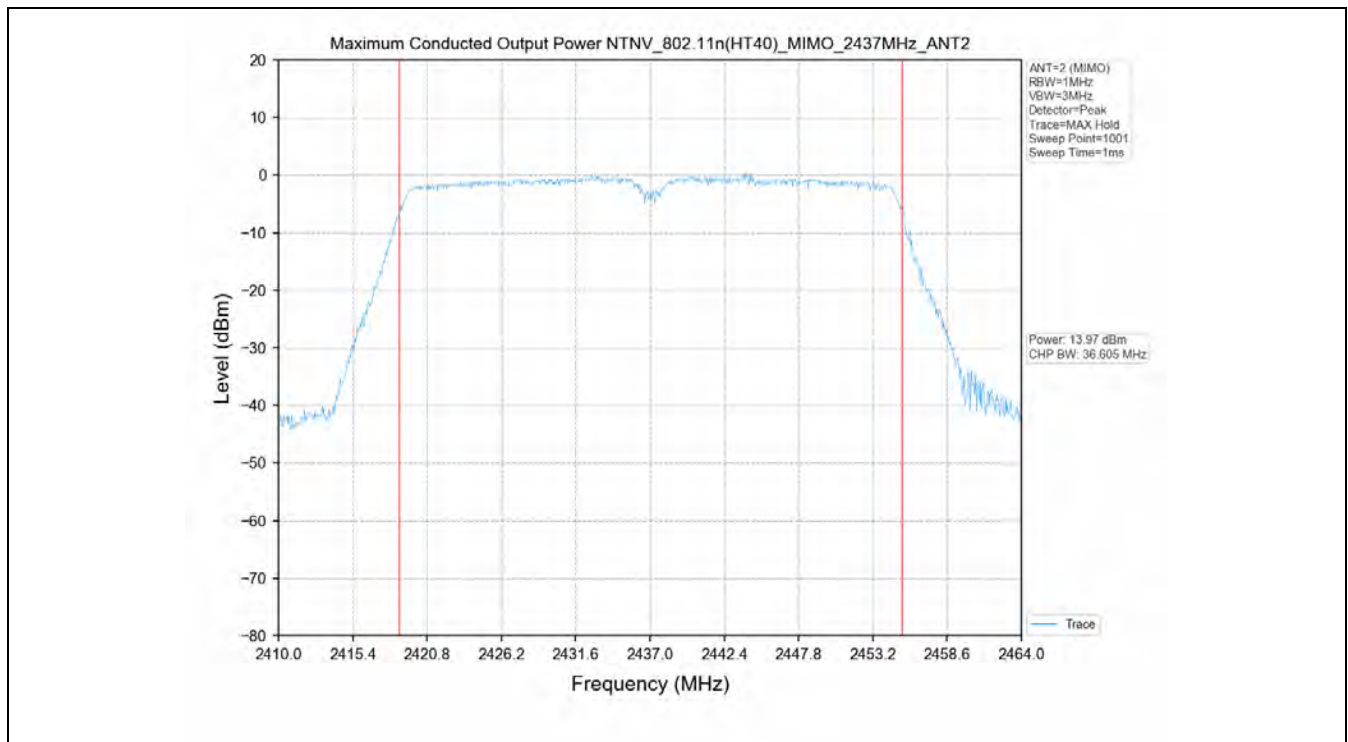


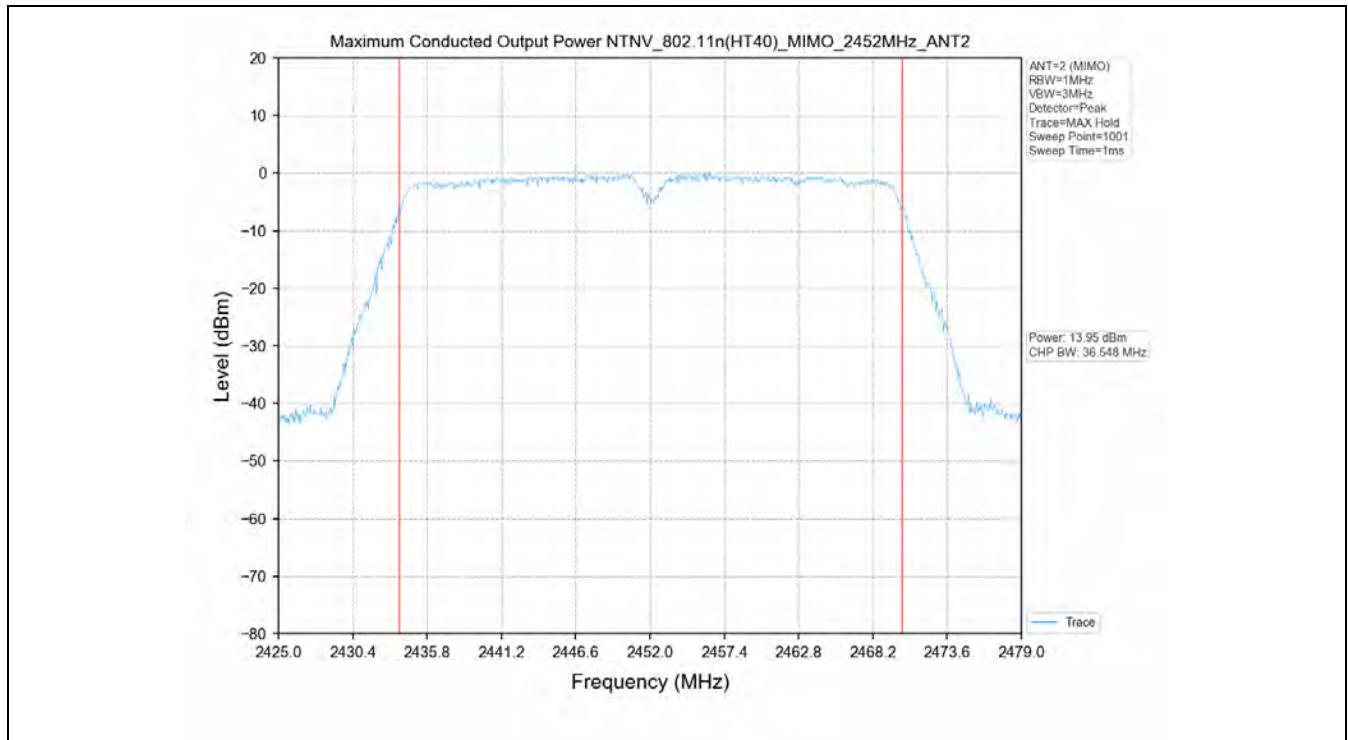










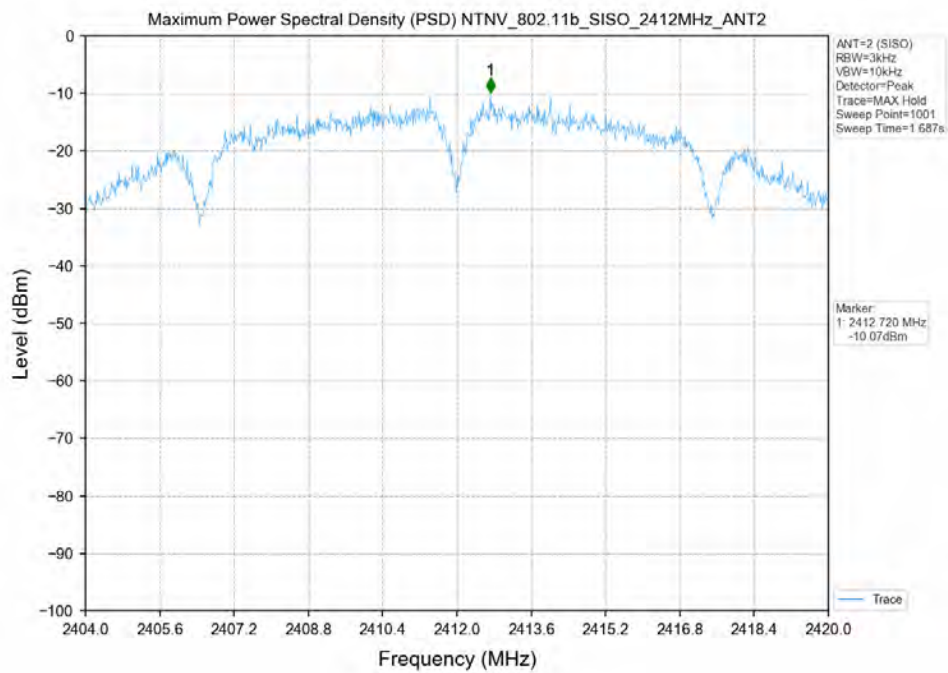
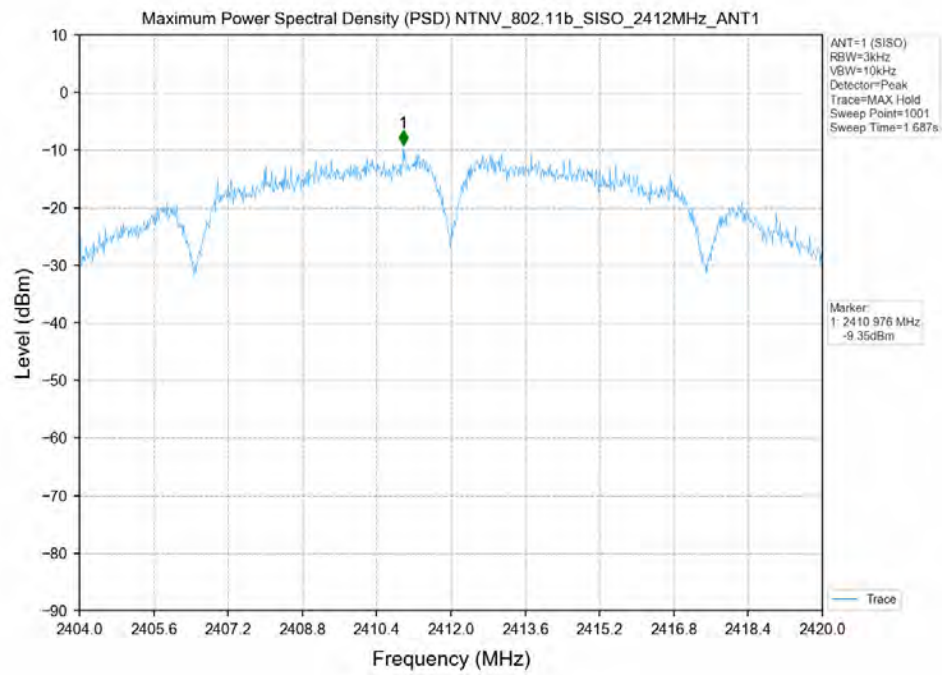


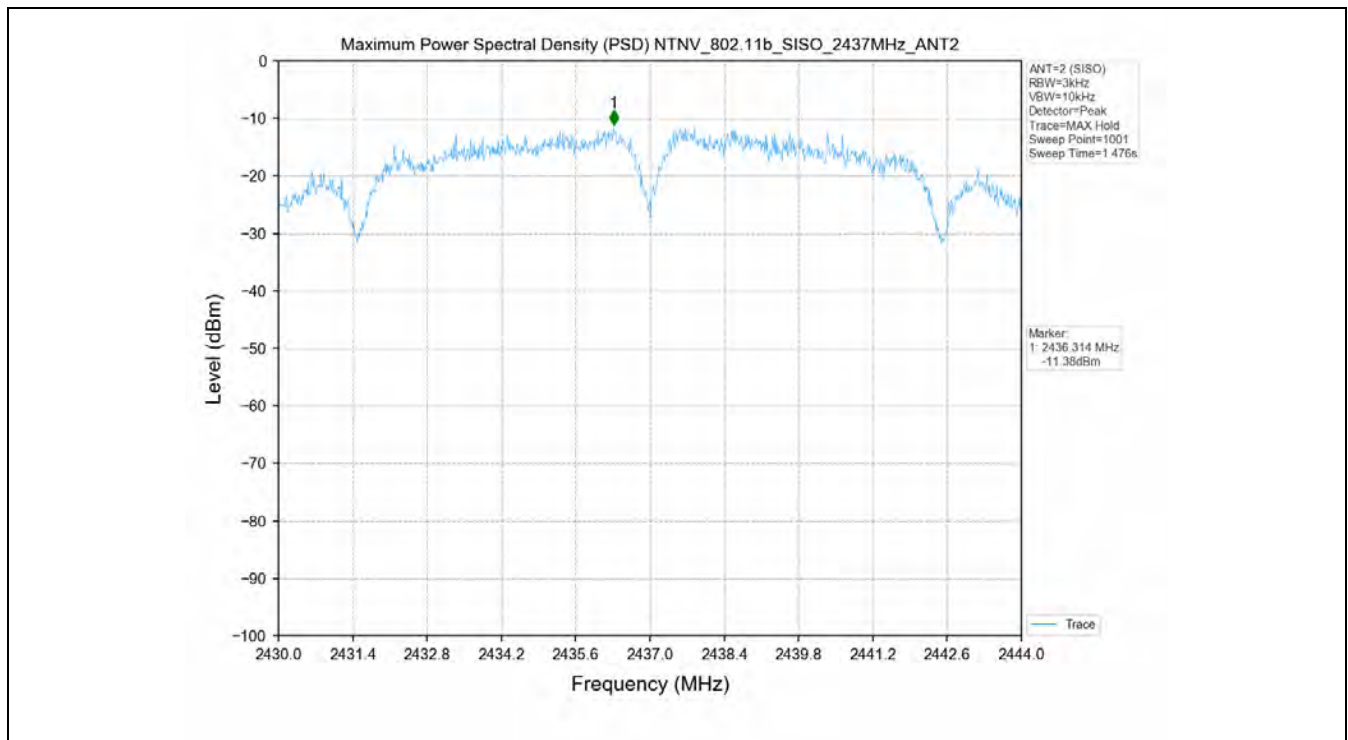
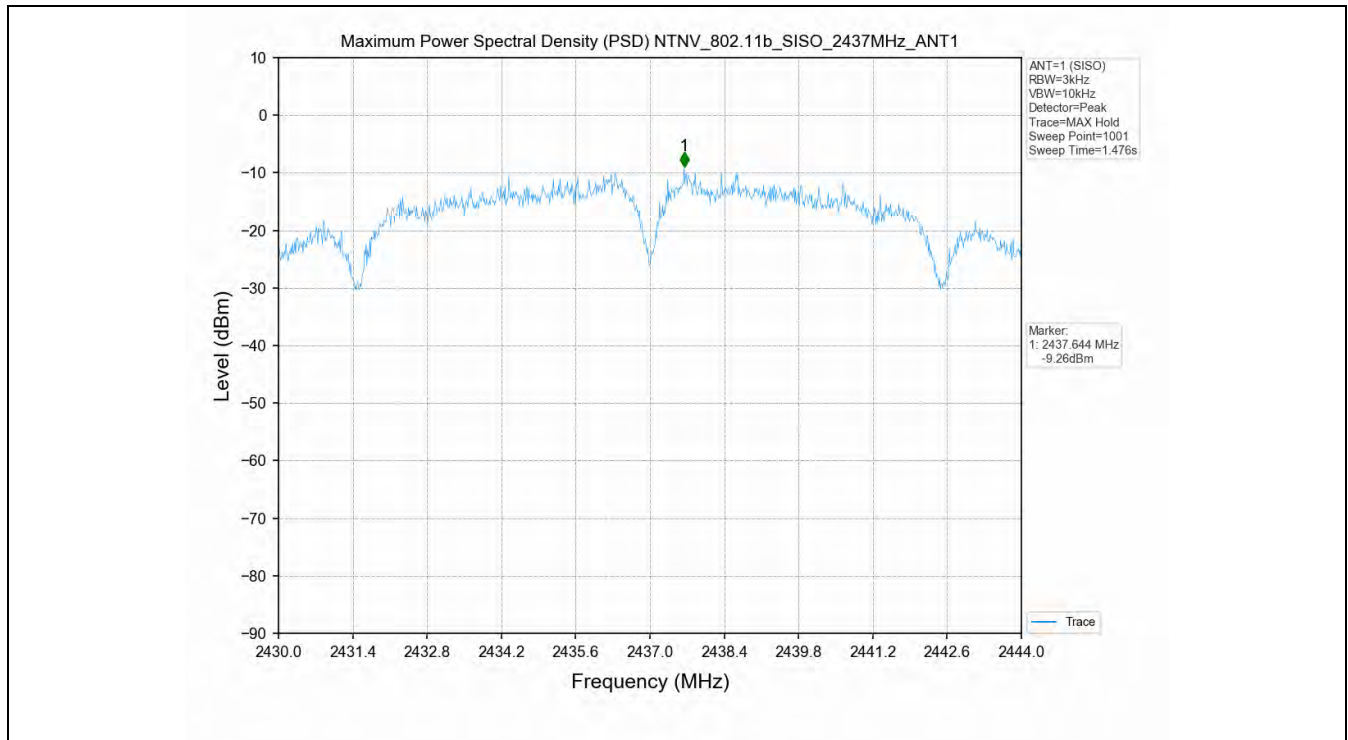
4. Maximum Power Spectral Density (PSD)

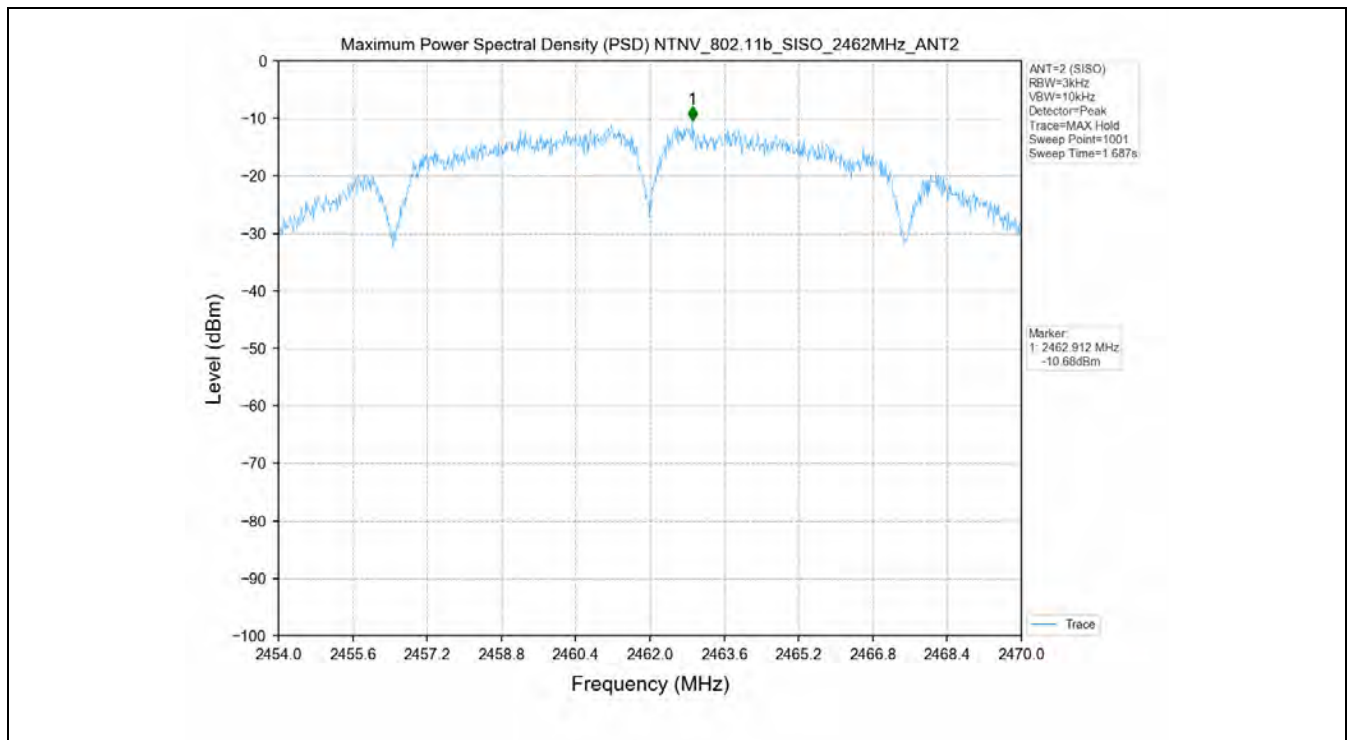
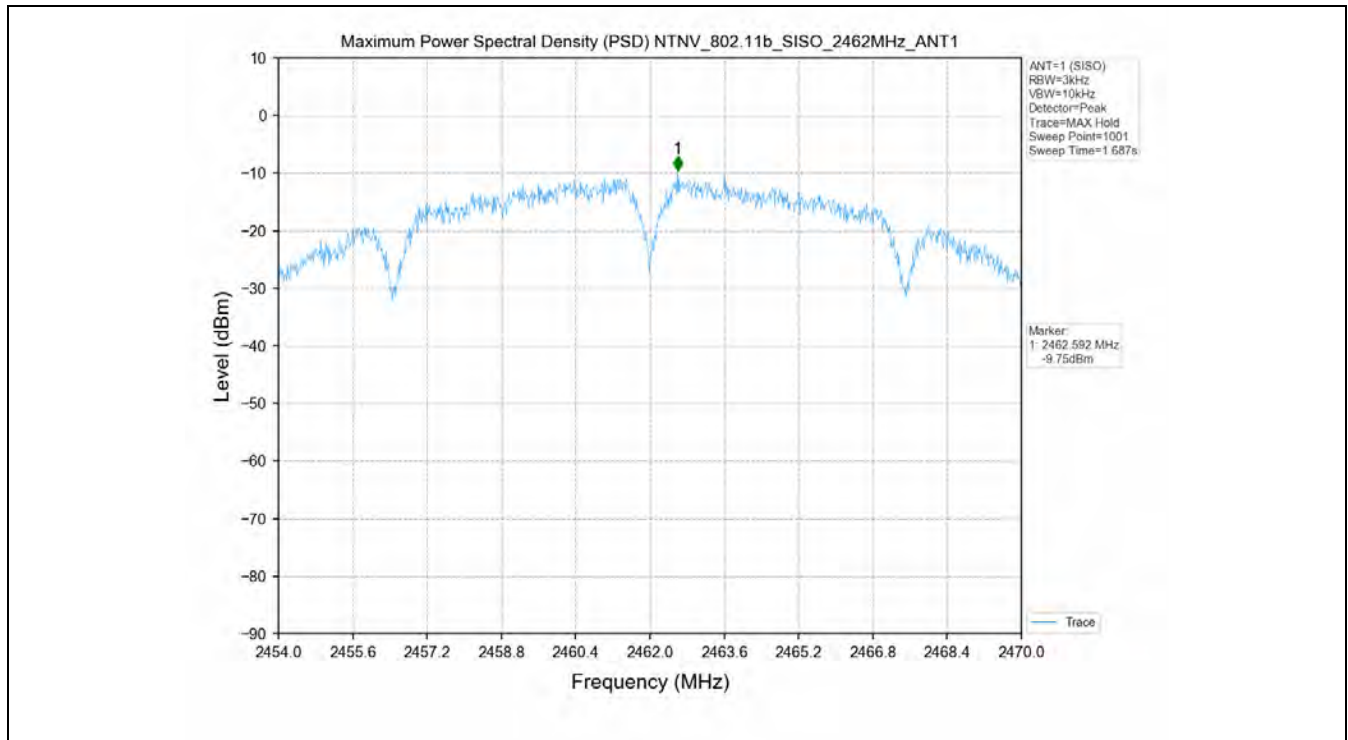
4.1 Test Result

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	-9.35	-10.07	/	≤8	PASS
	2437	SISO	-9.26	-11.38	/	≤8	PASS
	2462	SISO	-9.75	-10.68	/	≤8	PASS
802.11g	2412	SISO	-15.95	-16.85	/	≤8	PASS
	2437	SISO	-16.31	-17.09	/	≤8	PASS
	2462	SISO	-16.89	-17.47	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-18.56	-19.22	-15.87	≤8	PASS
	2437	MIMO	-18.69	-19.66	-17.16	≤8	PASS
	2462	MIMO	-17.81	-17.51	-14.65	≤8	PASS
802.11n(HT40)	2422	MIMO	-22.29	-23.12	-19.86	≤8	PASS
	2437	MIMO	-21.39	-22.09	-18.88	≤8	PASS
	2452	MIMO	-21.58	-22.45	-18.98	≤8	PASS

4.2 Test Graph

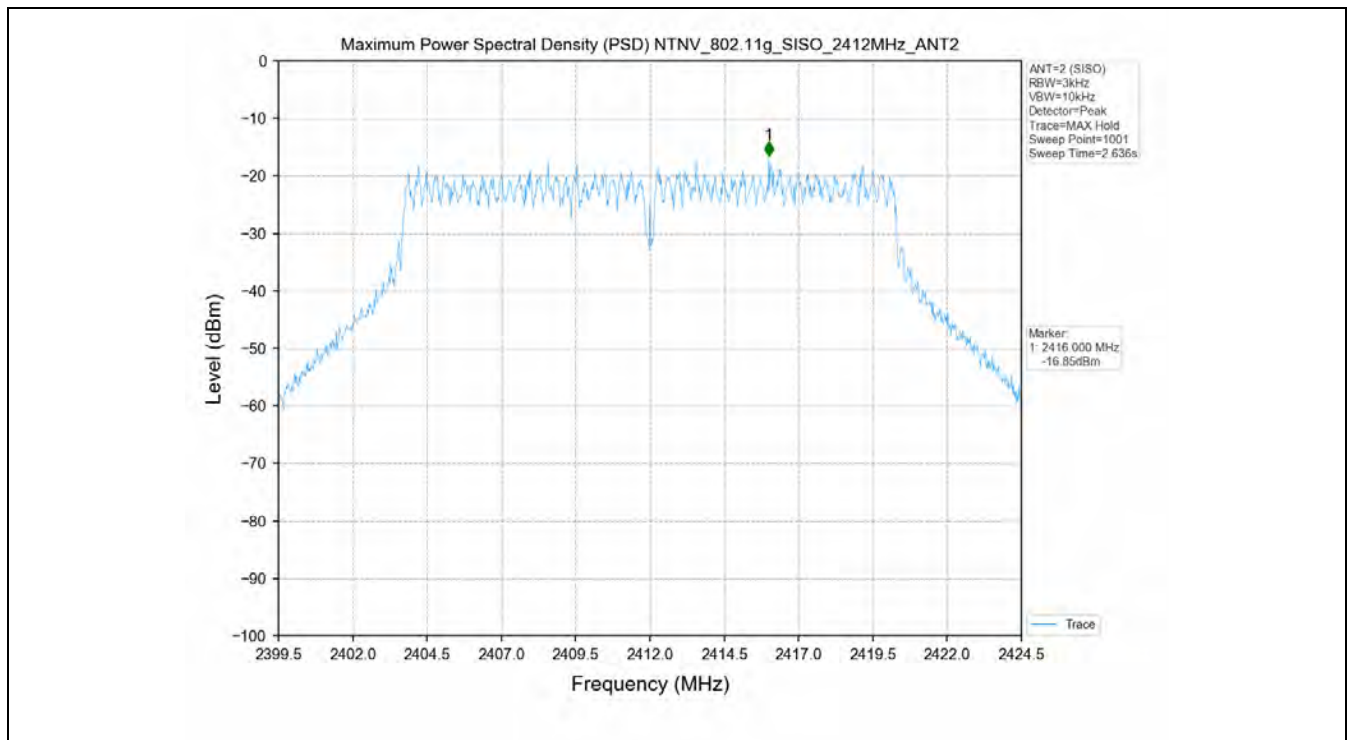
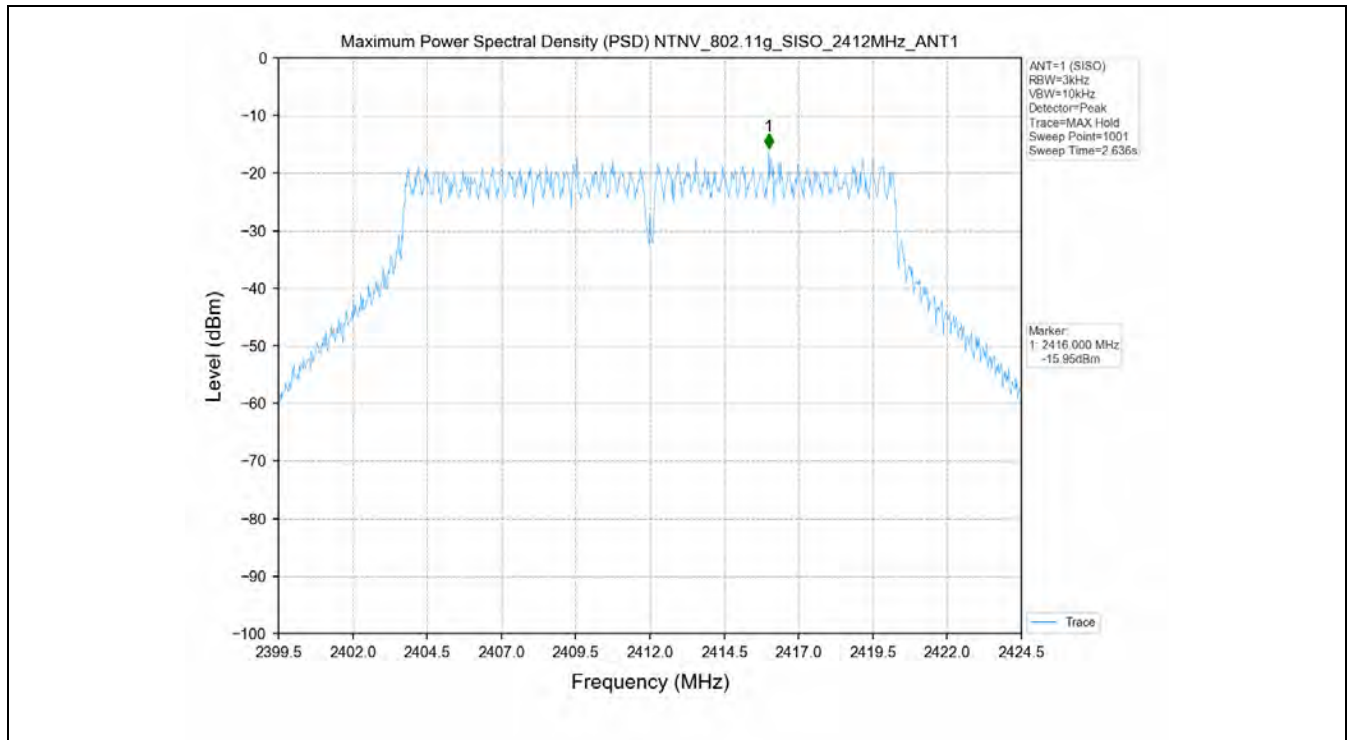


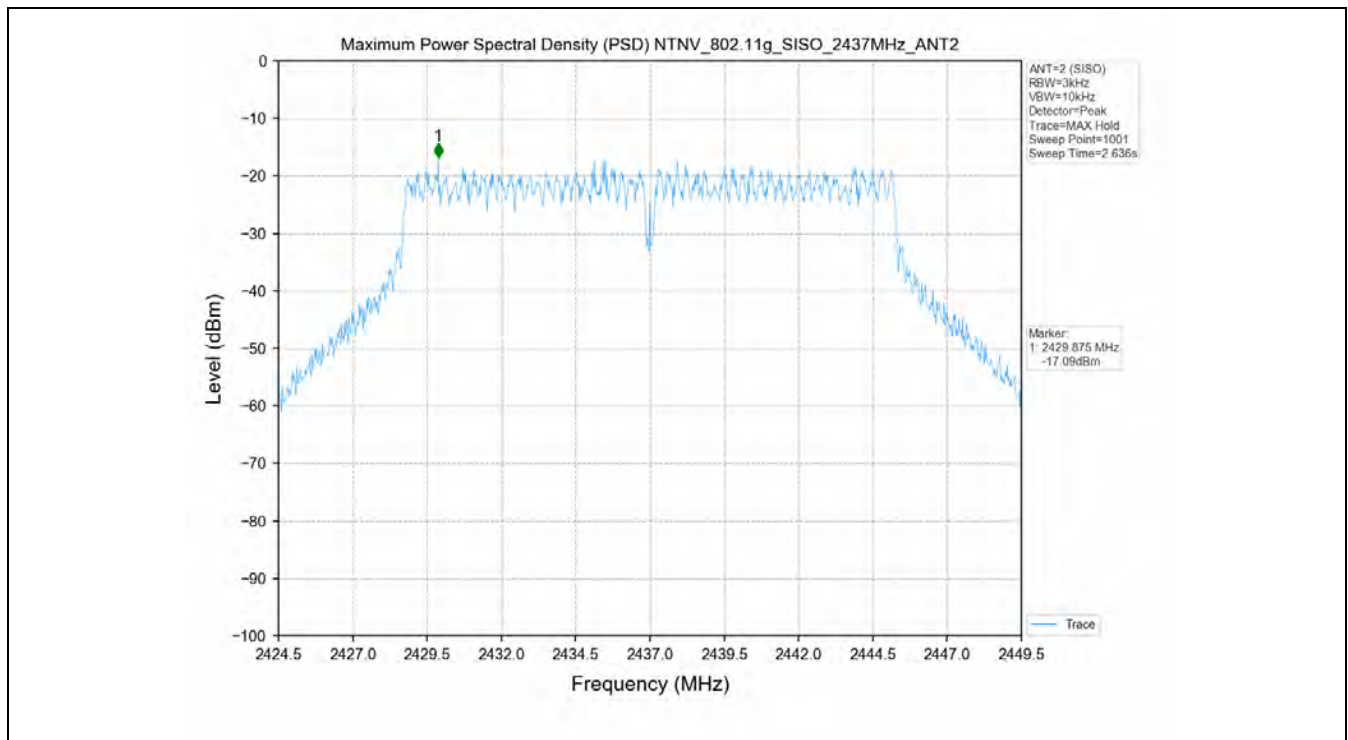
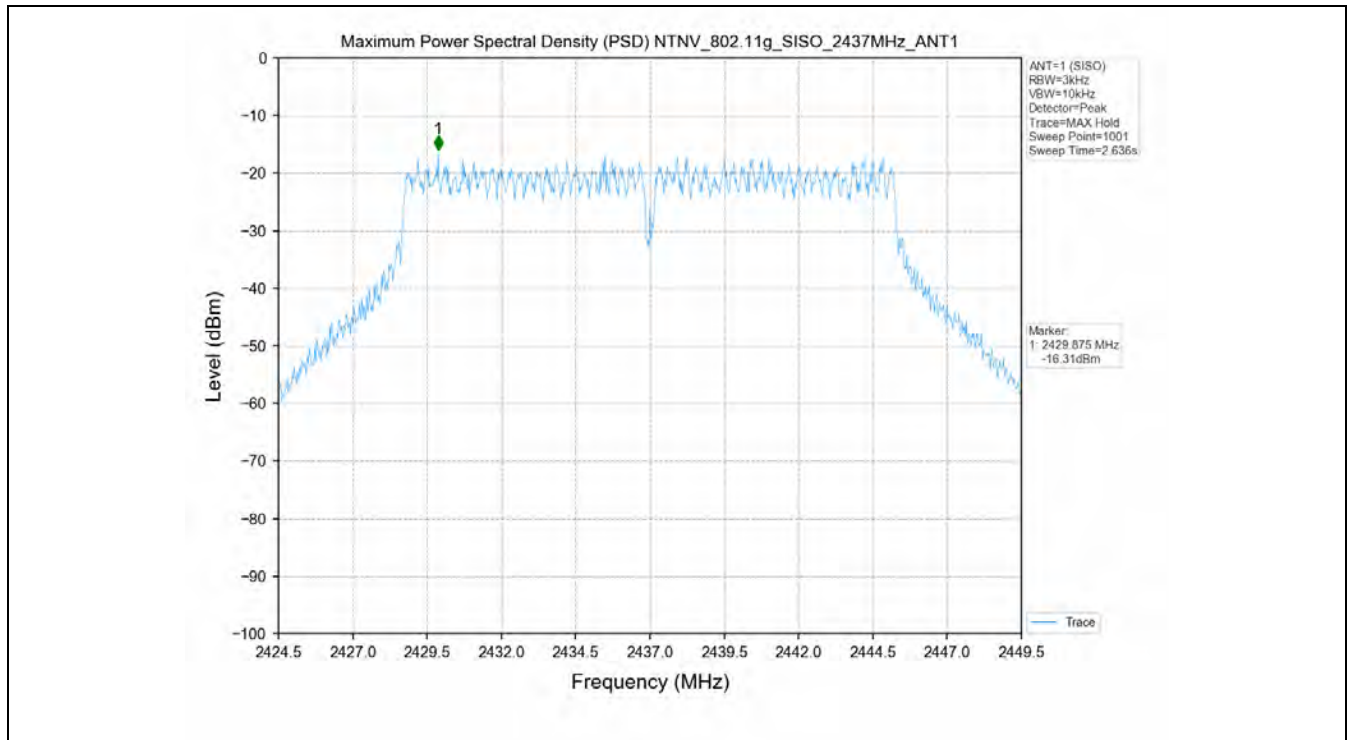


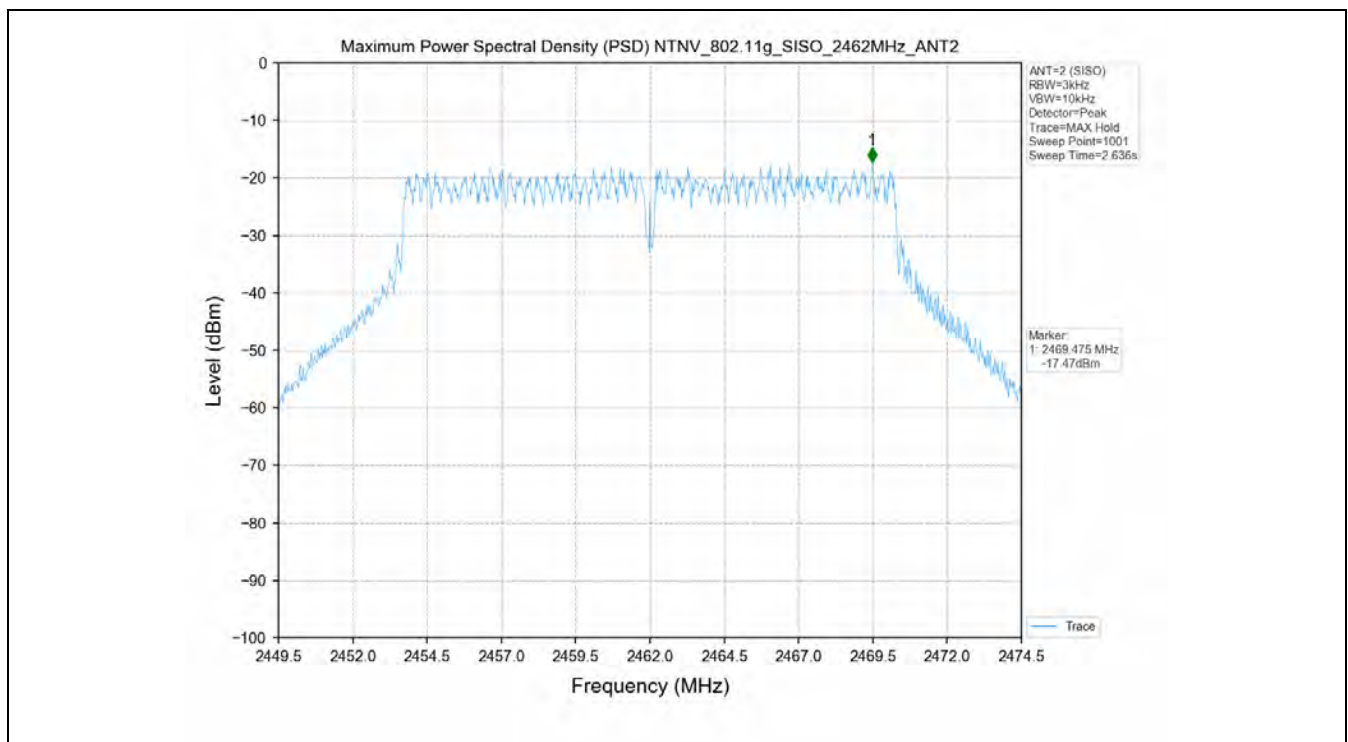
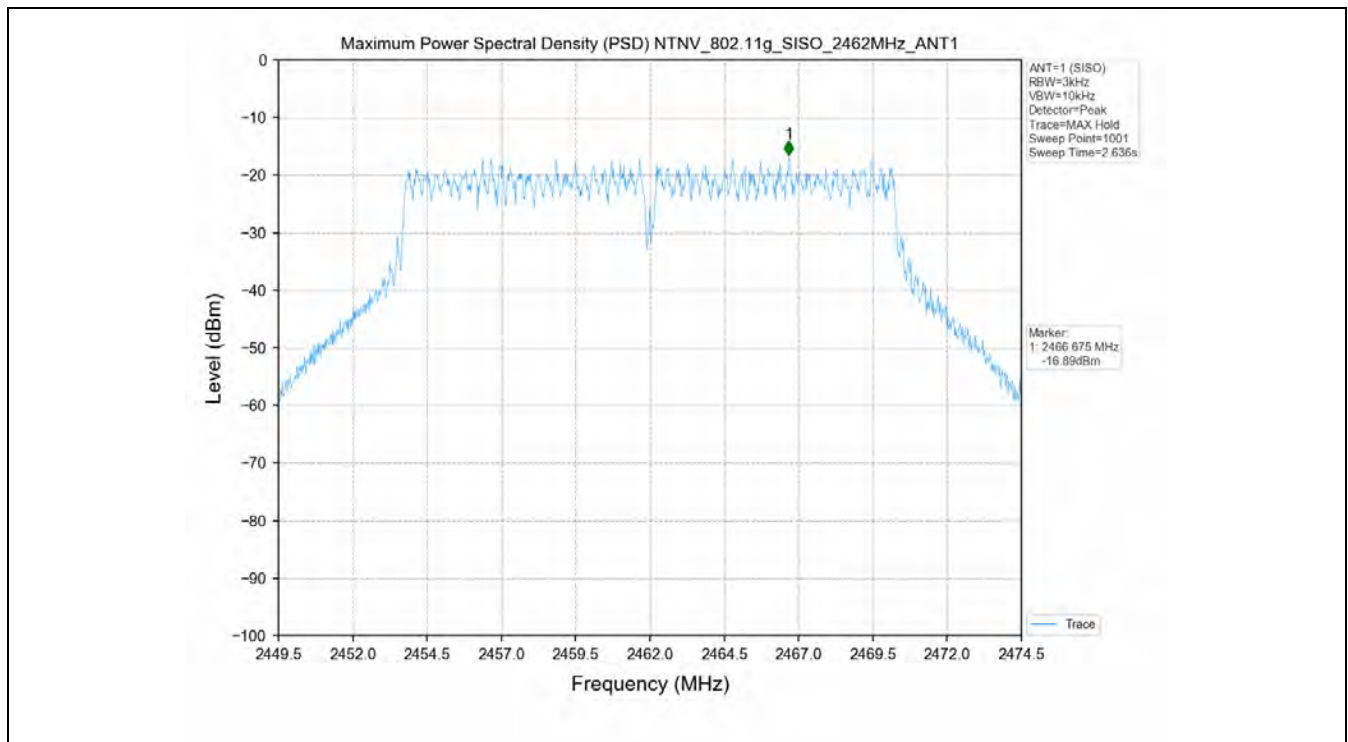


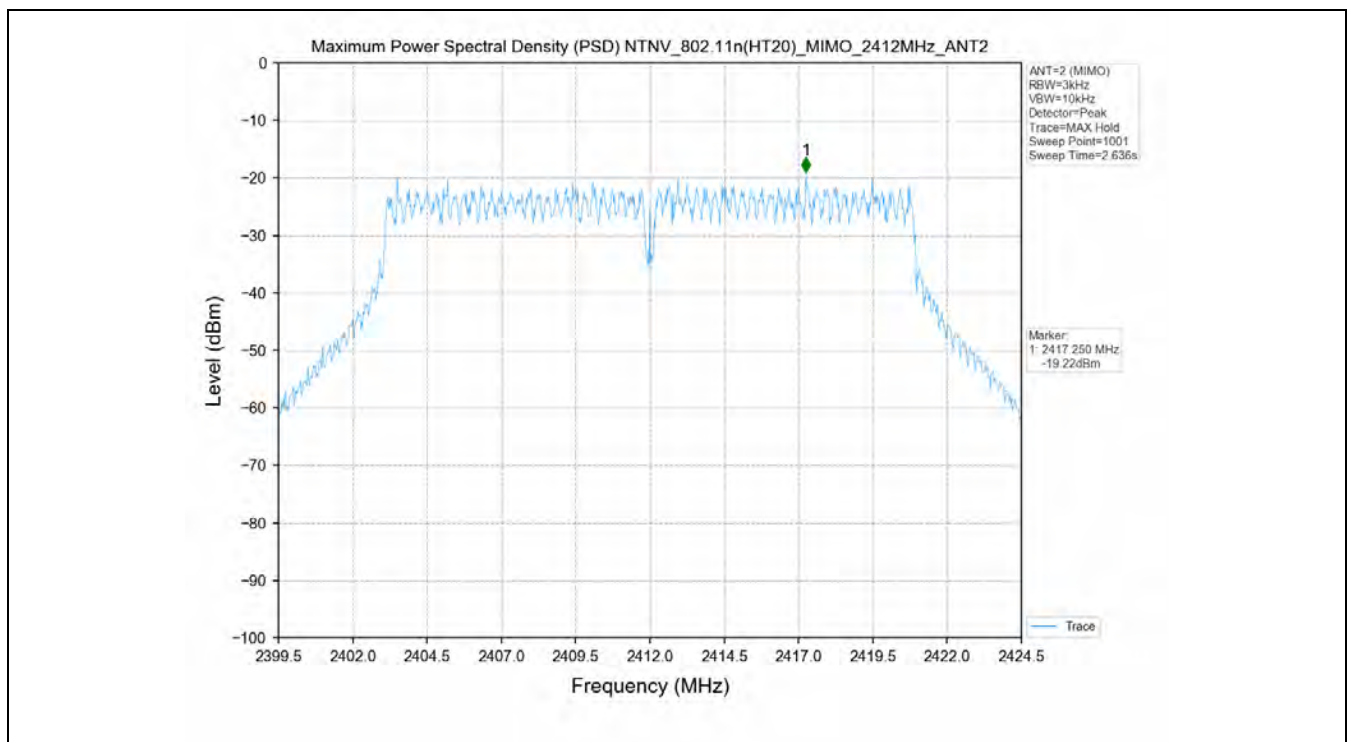
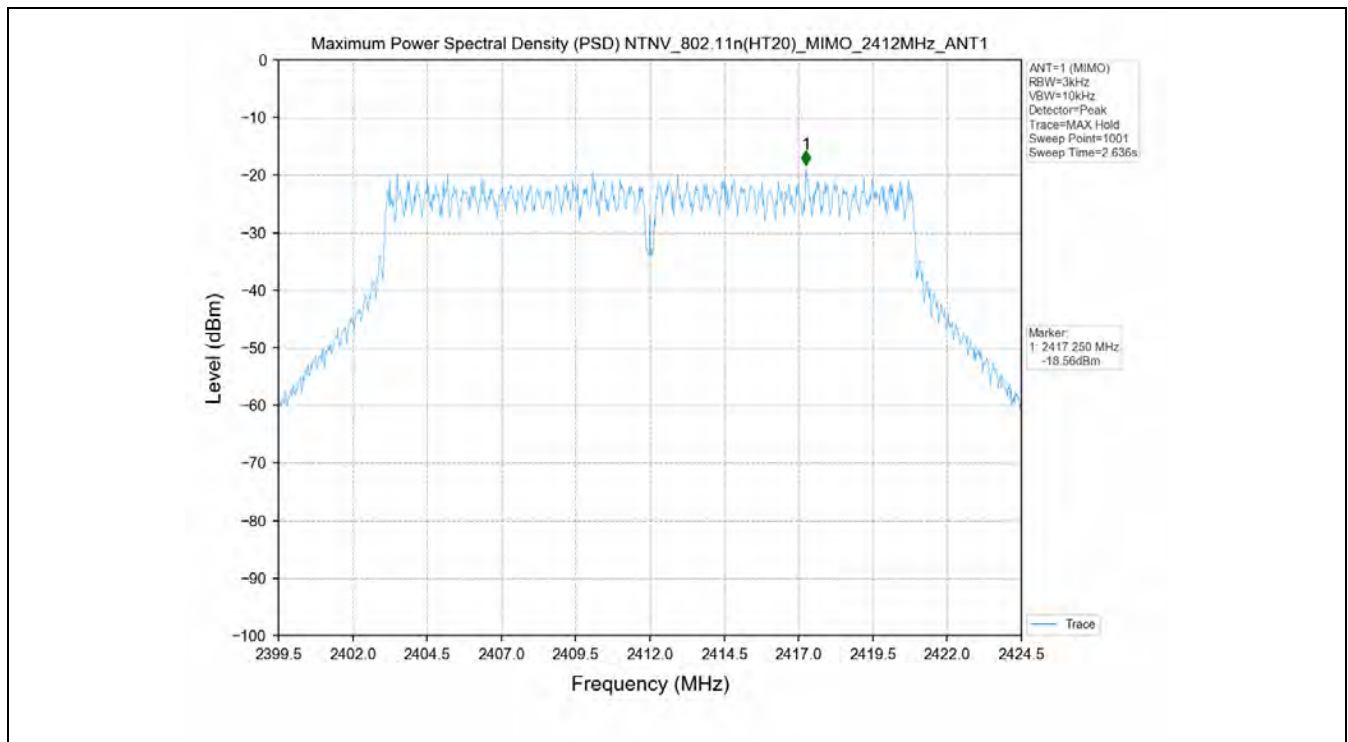


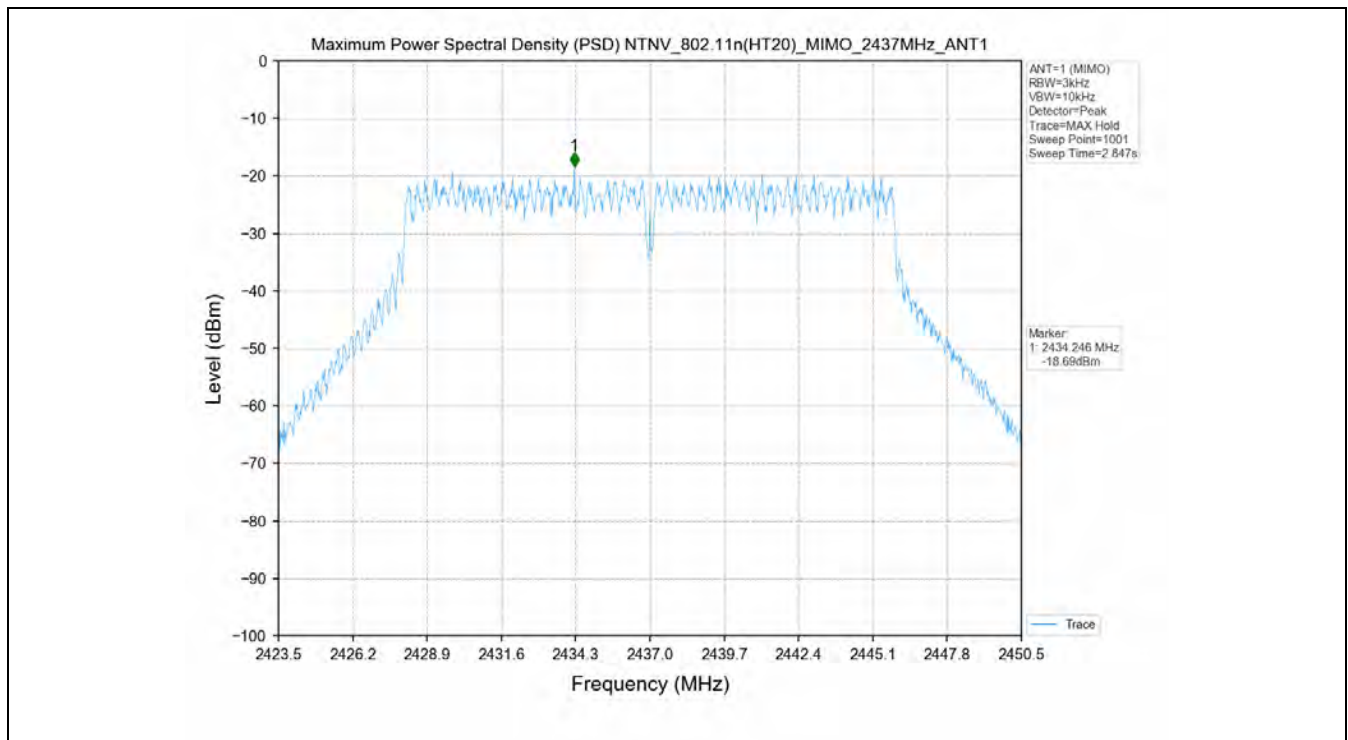
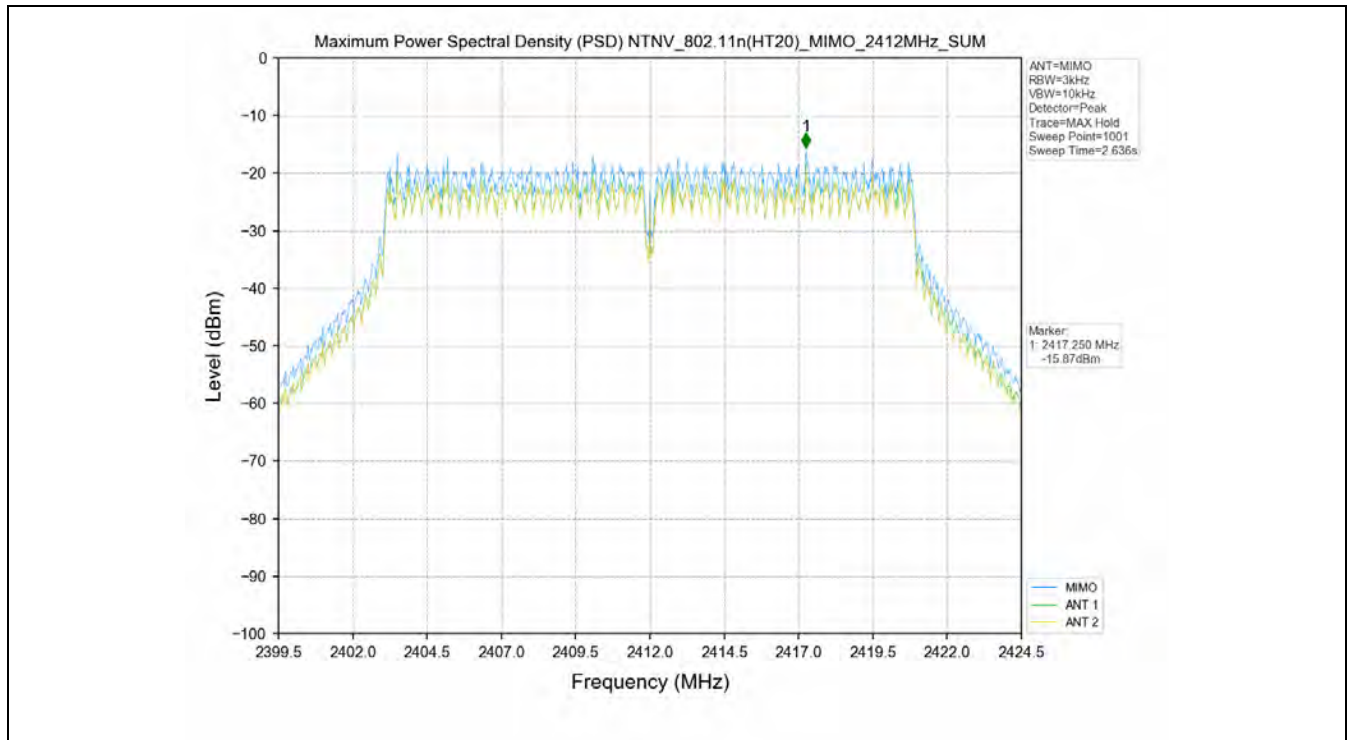
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

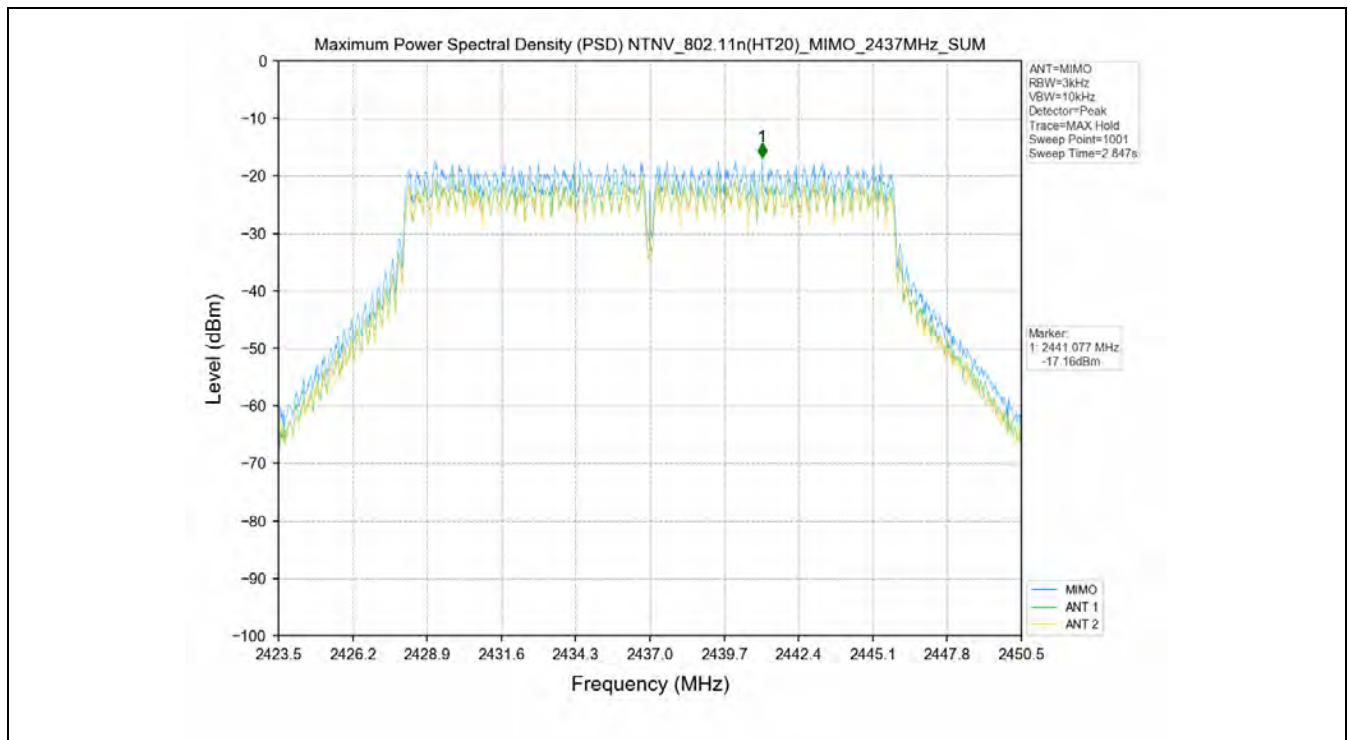
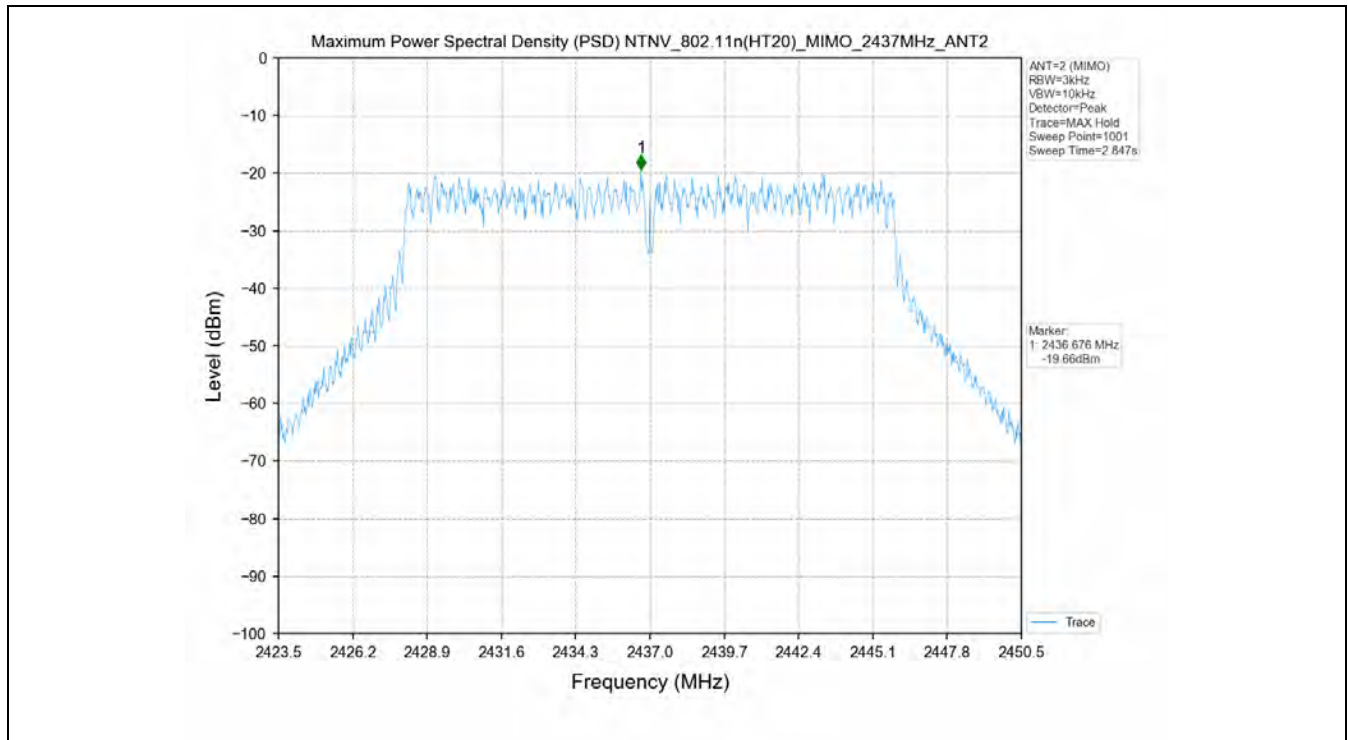


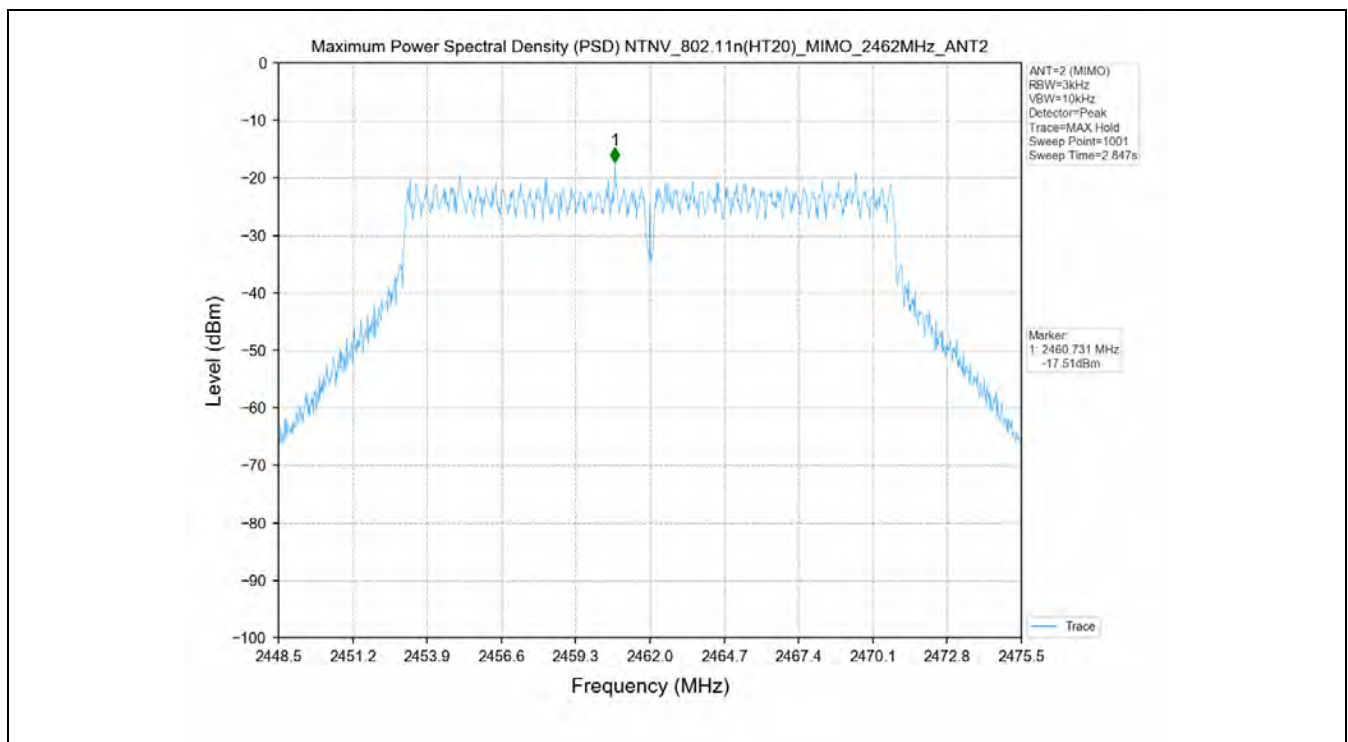
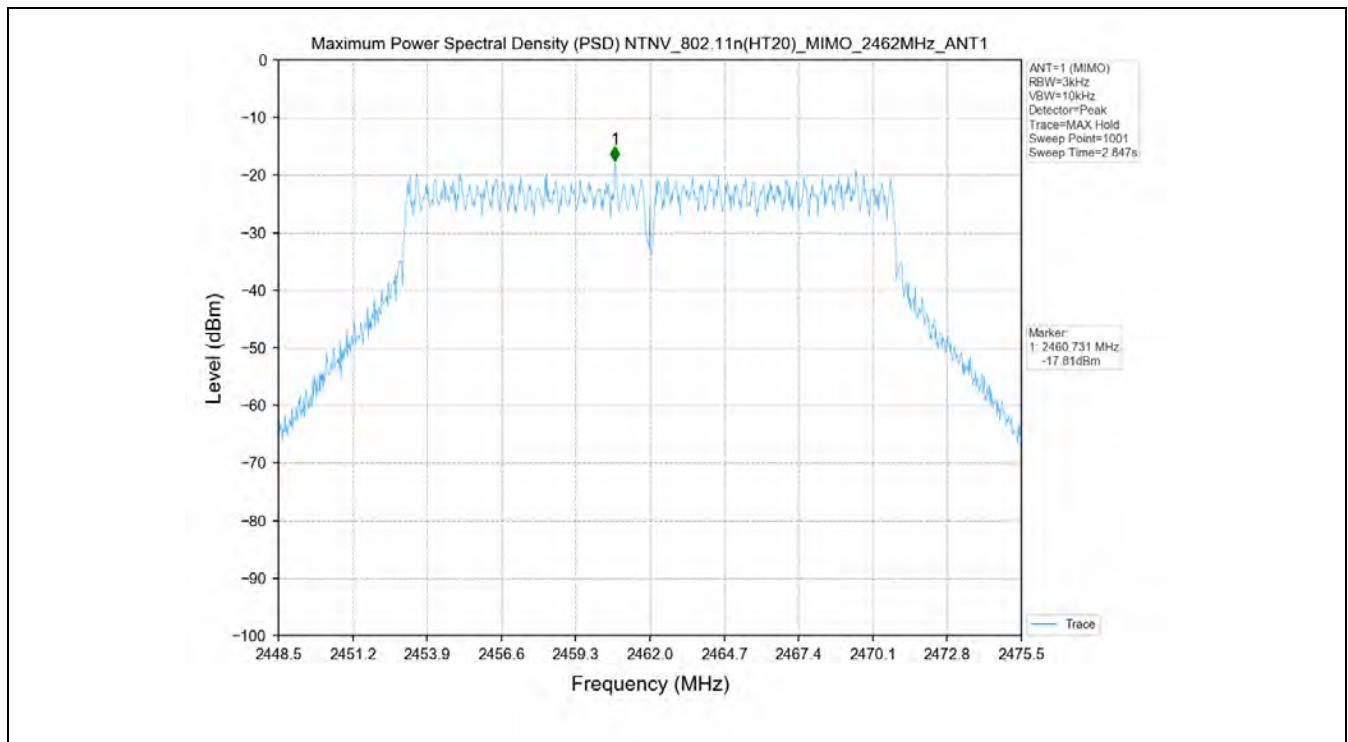


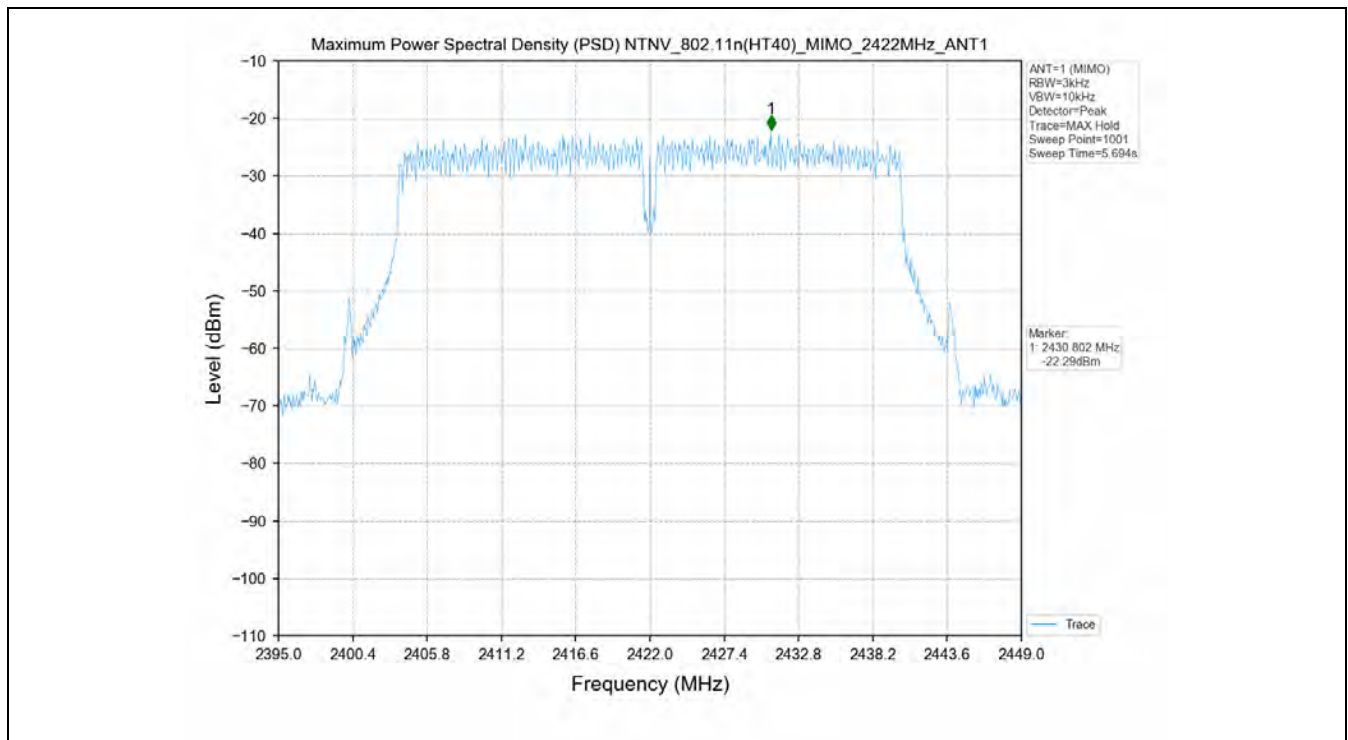
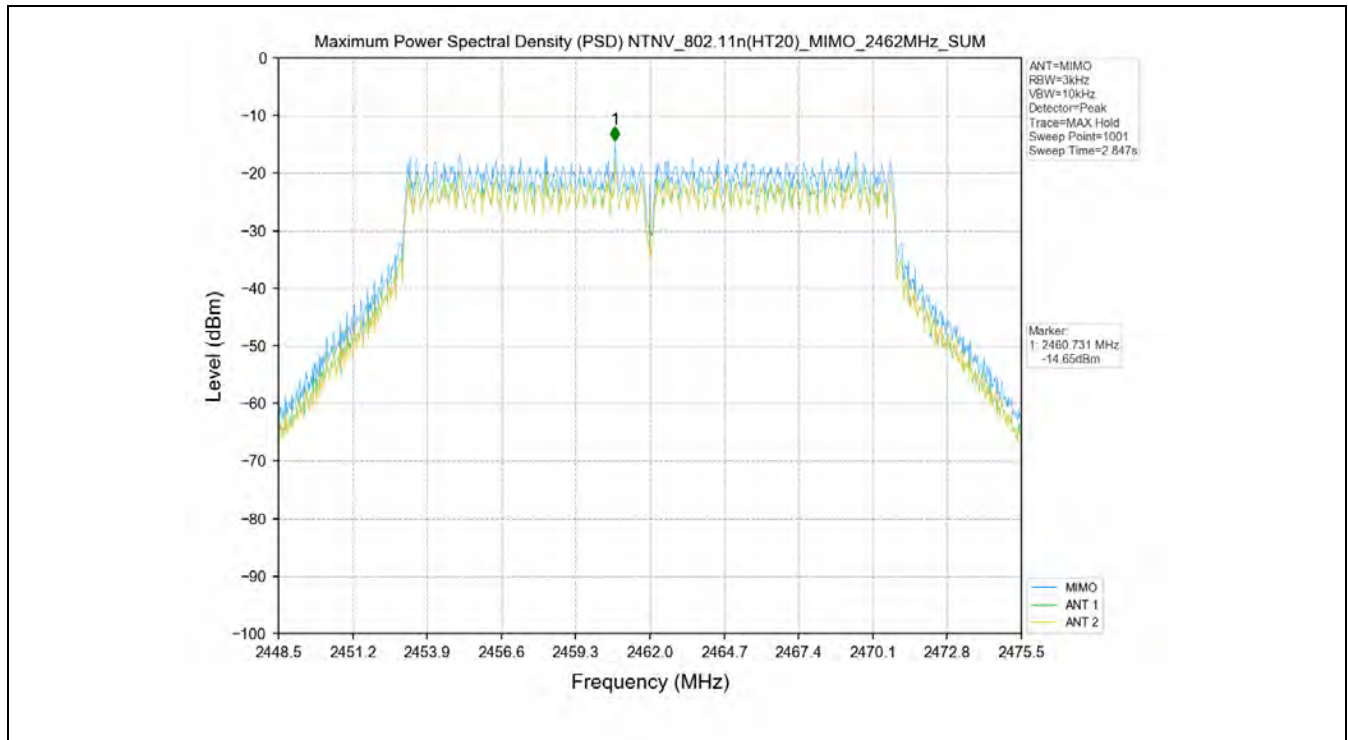


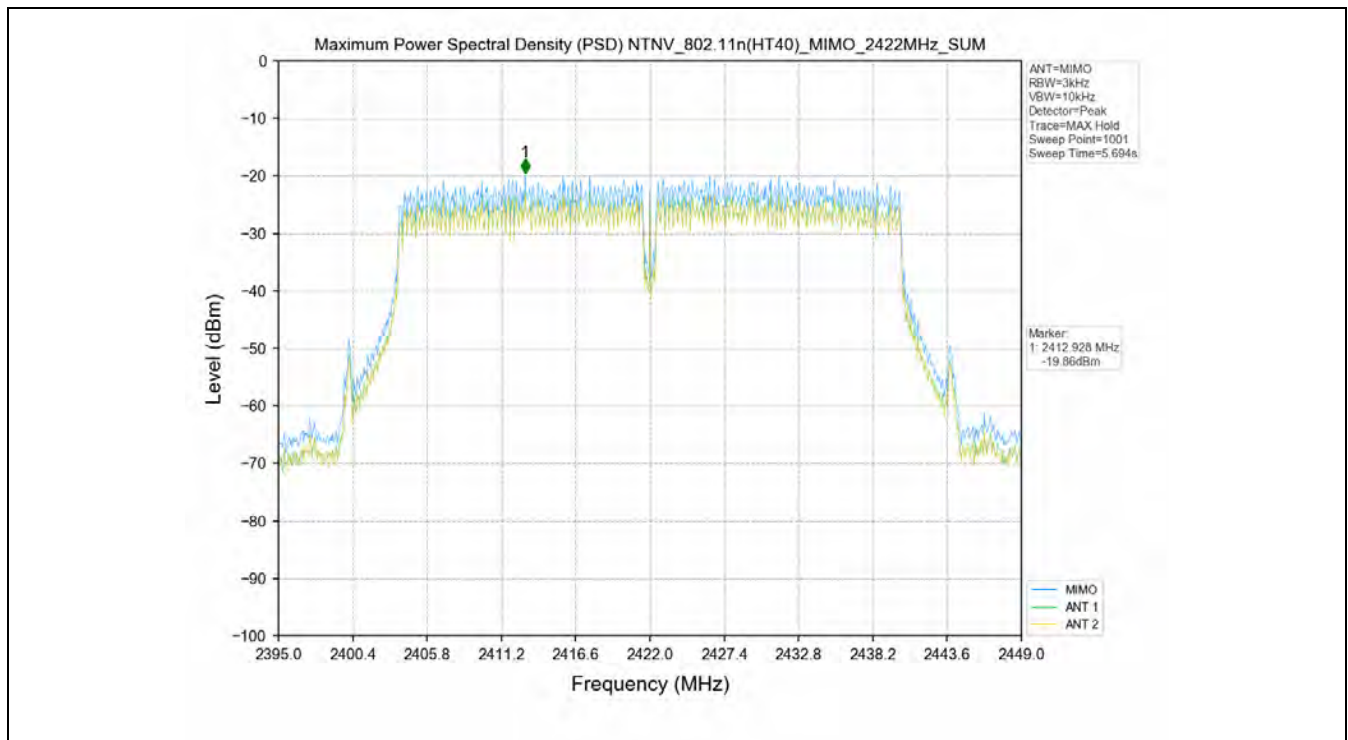
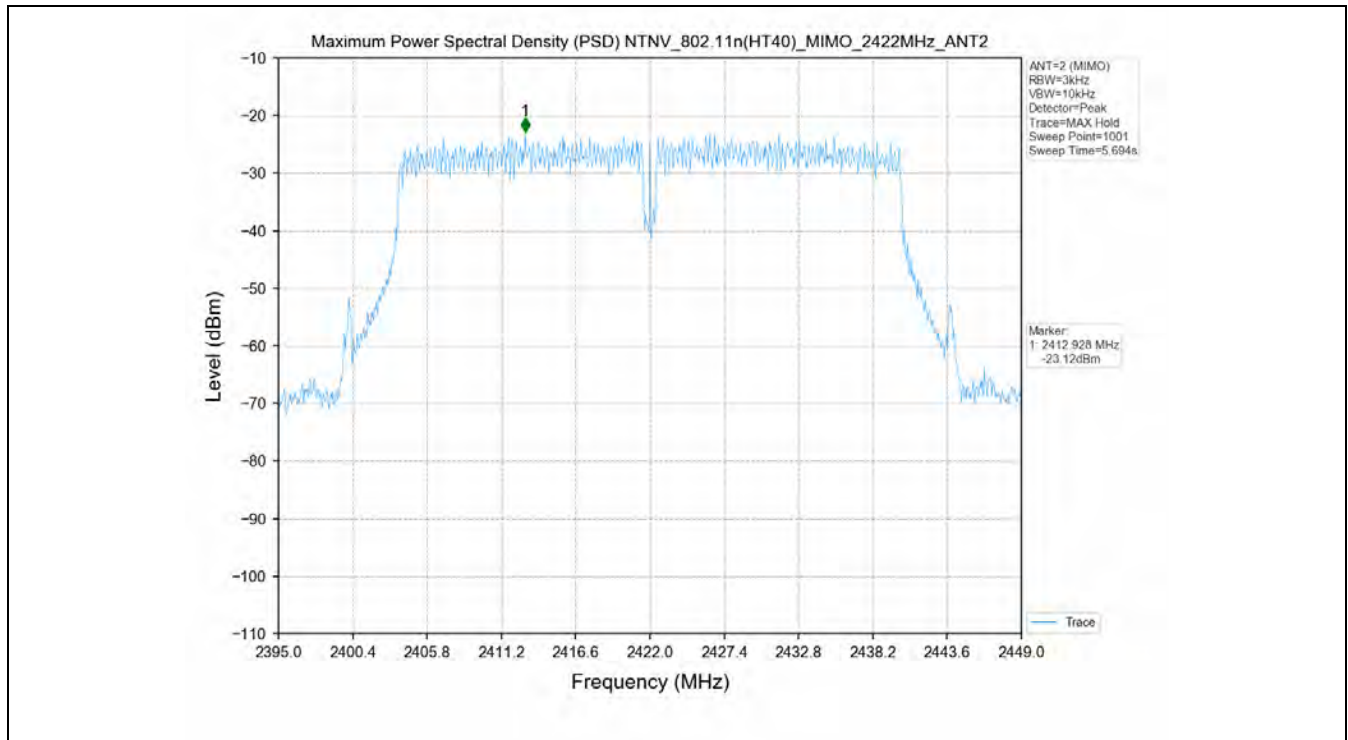


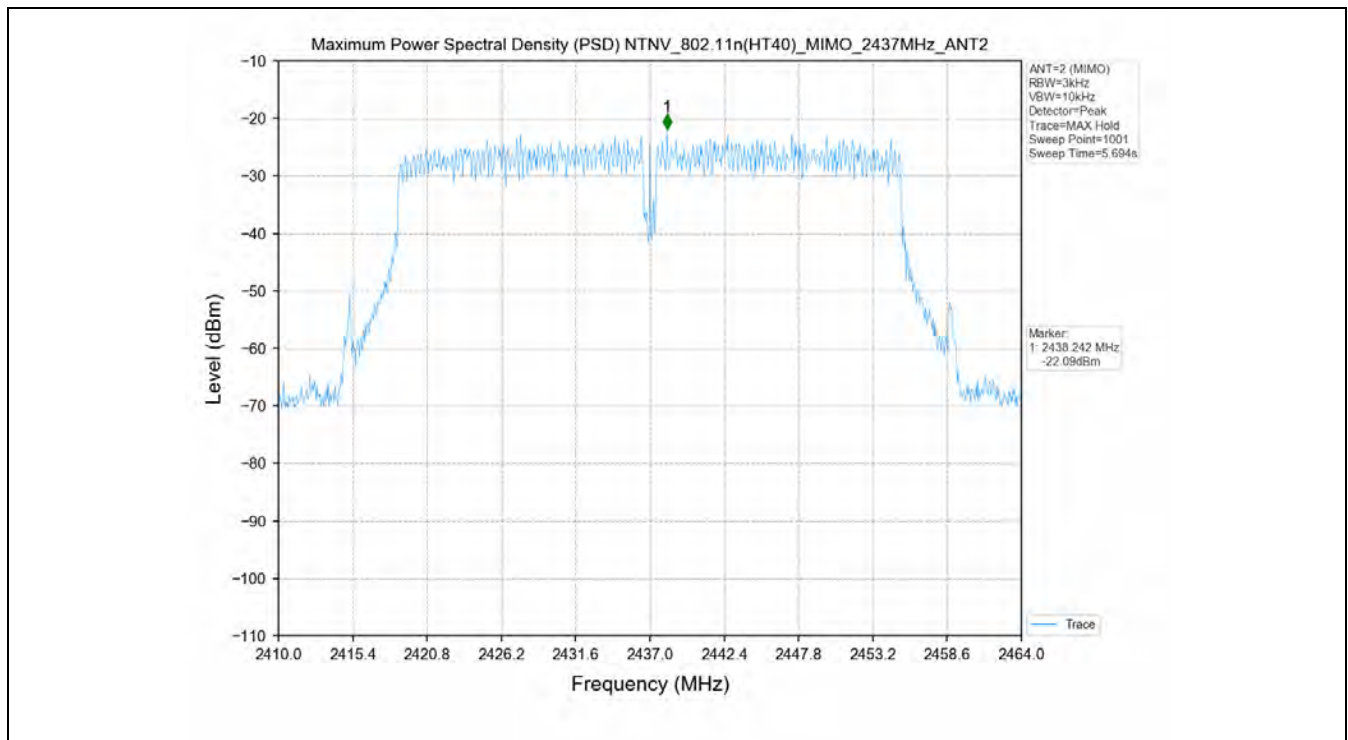
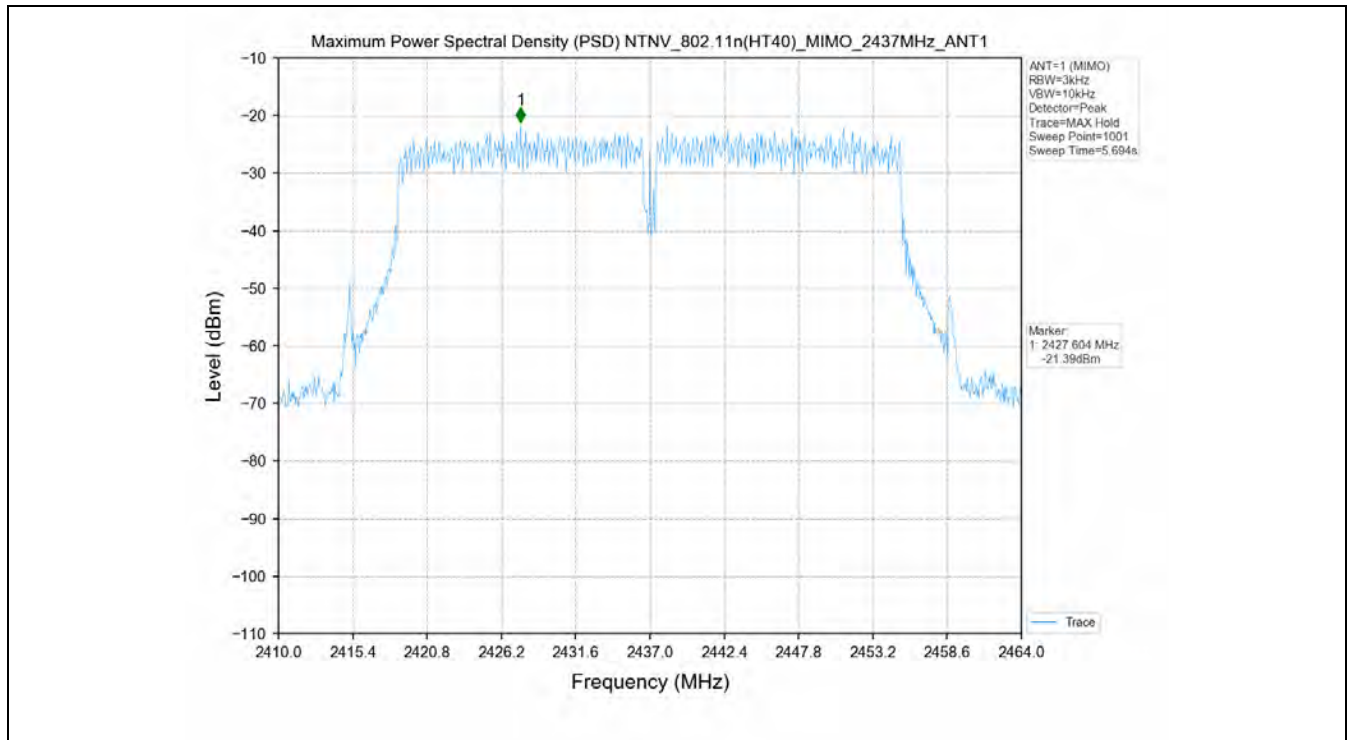


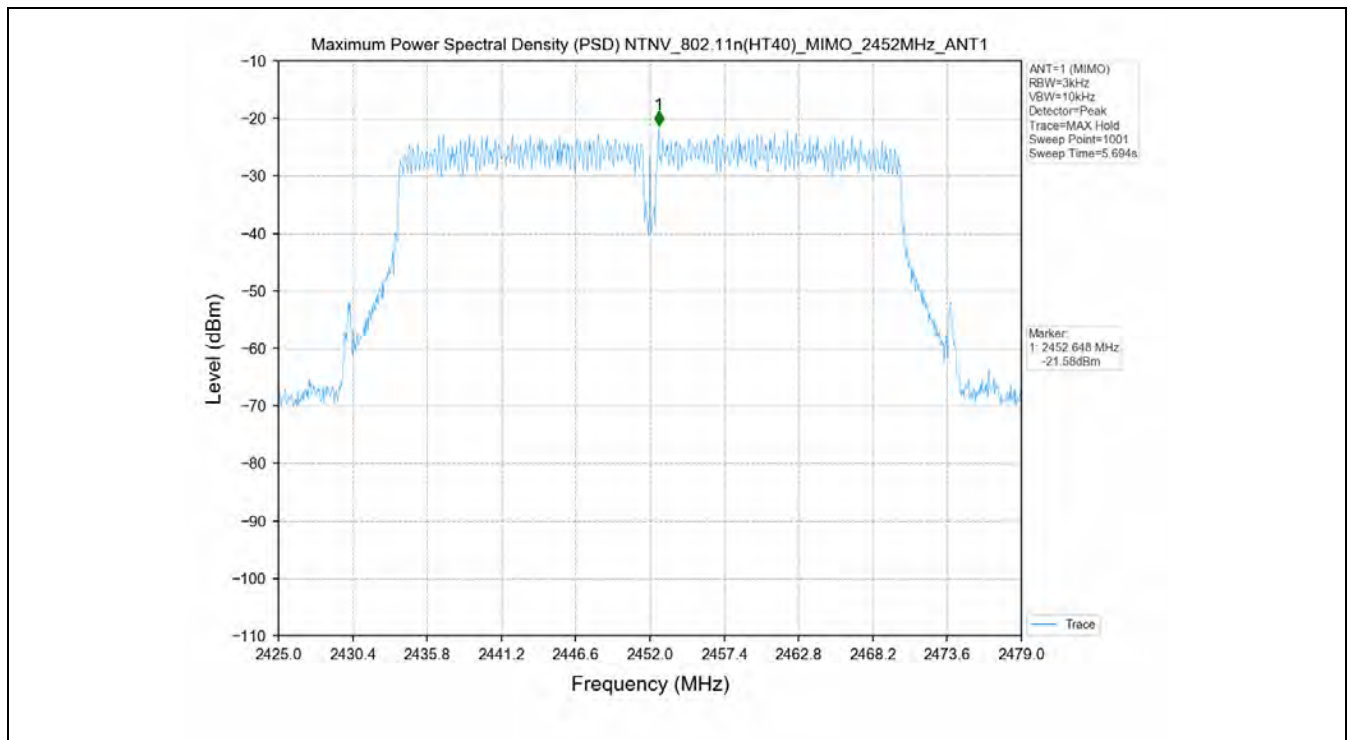
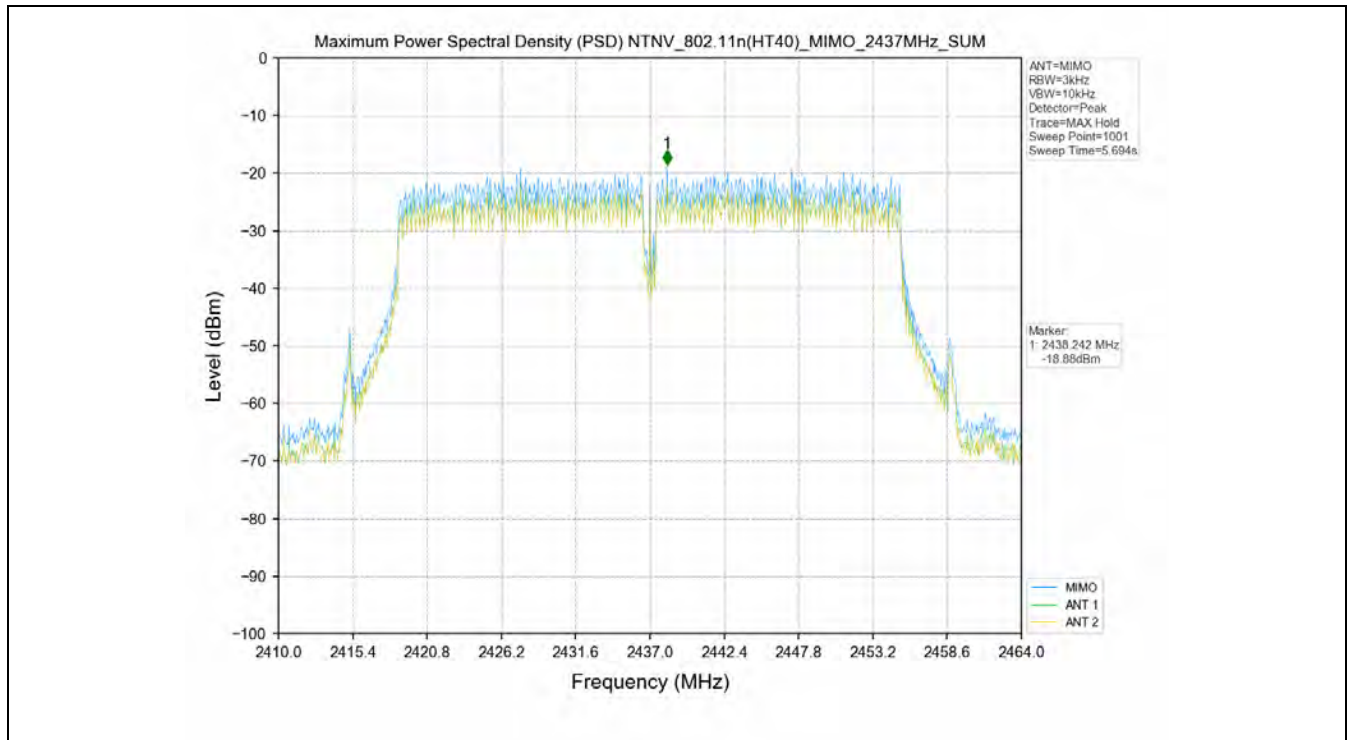


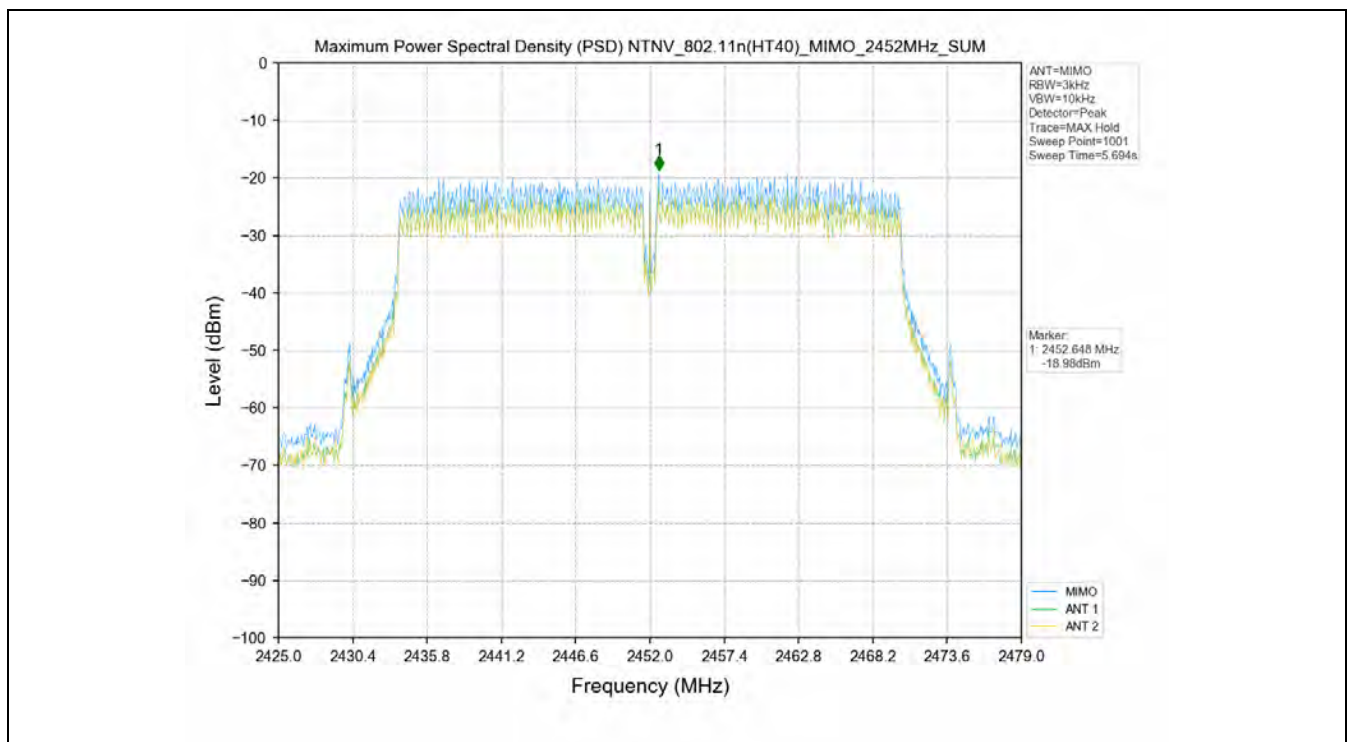
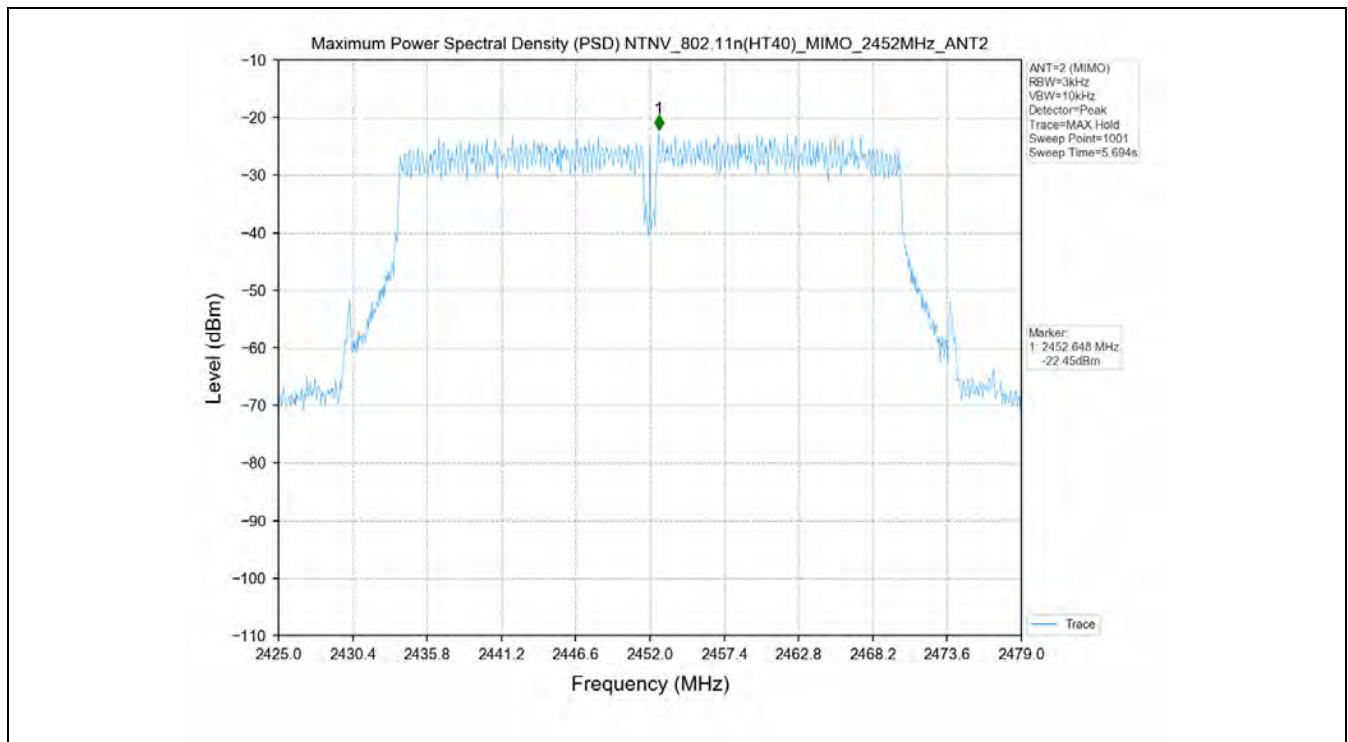














5. Unwanted Emissions in Non-restricted Frequency Bands

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
			2	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
802.11g	2412	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2437	MIMO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2462	MIMO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
802.11n(HT40)	2422	MIMO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2437	MIMO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2452	MIMO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS

5.2 Test Graph

