



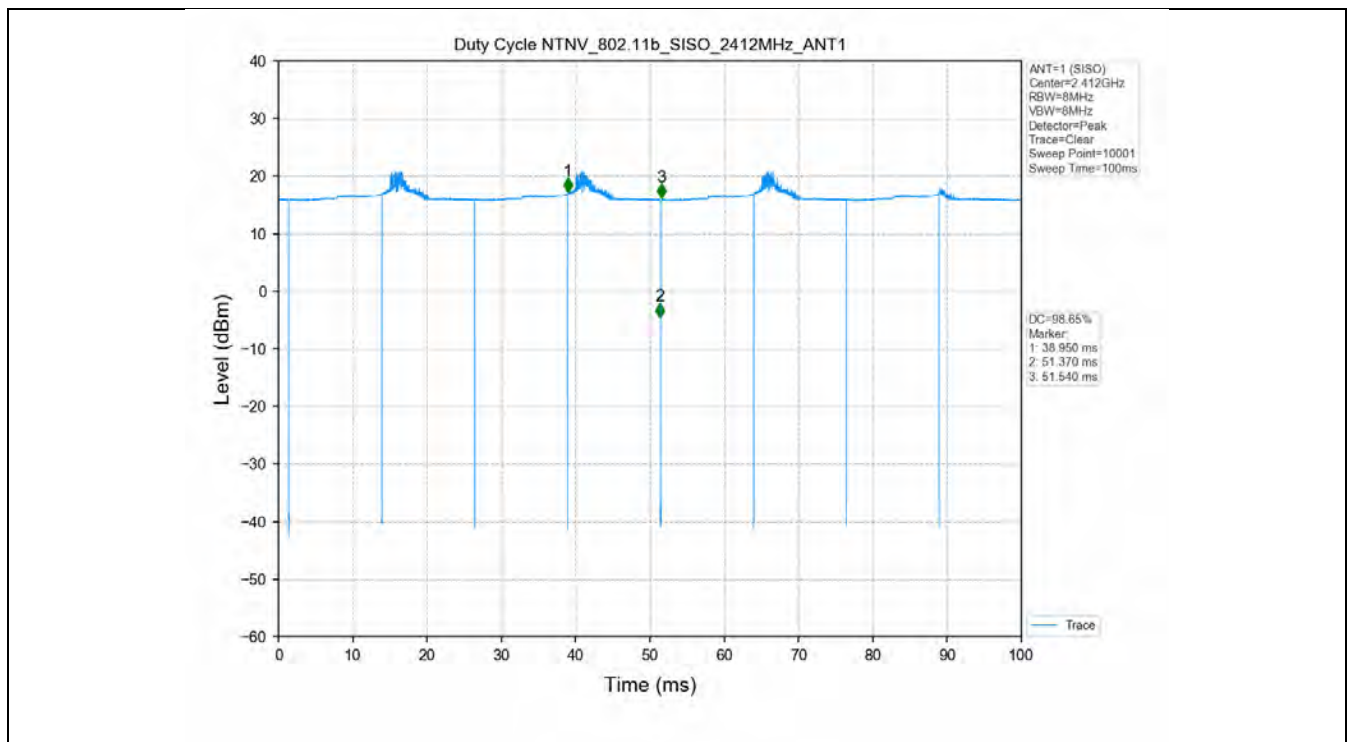
Appendix A for SHEM200400260101

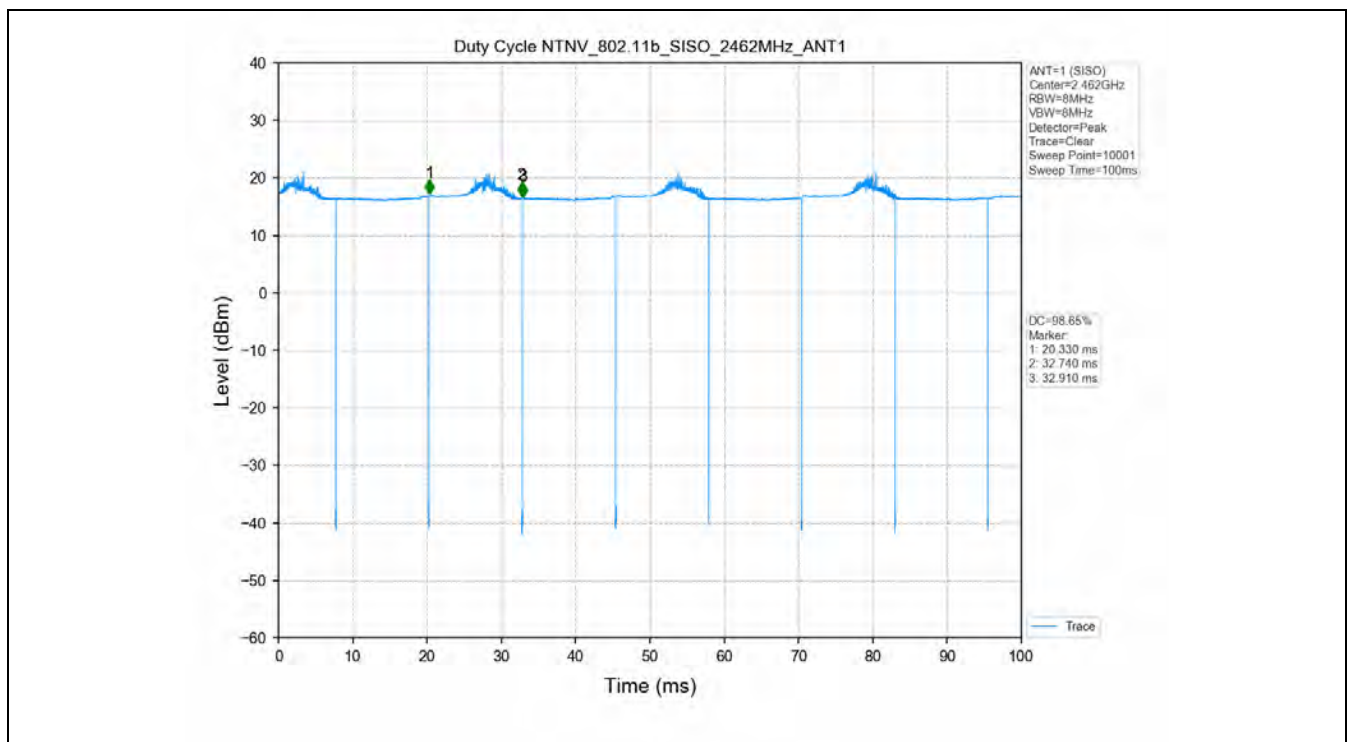
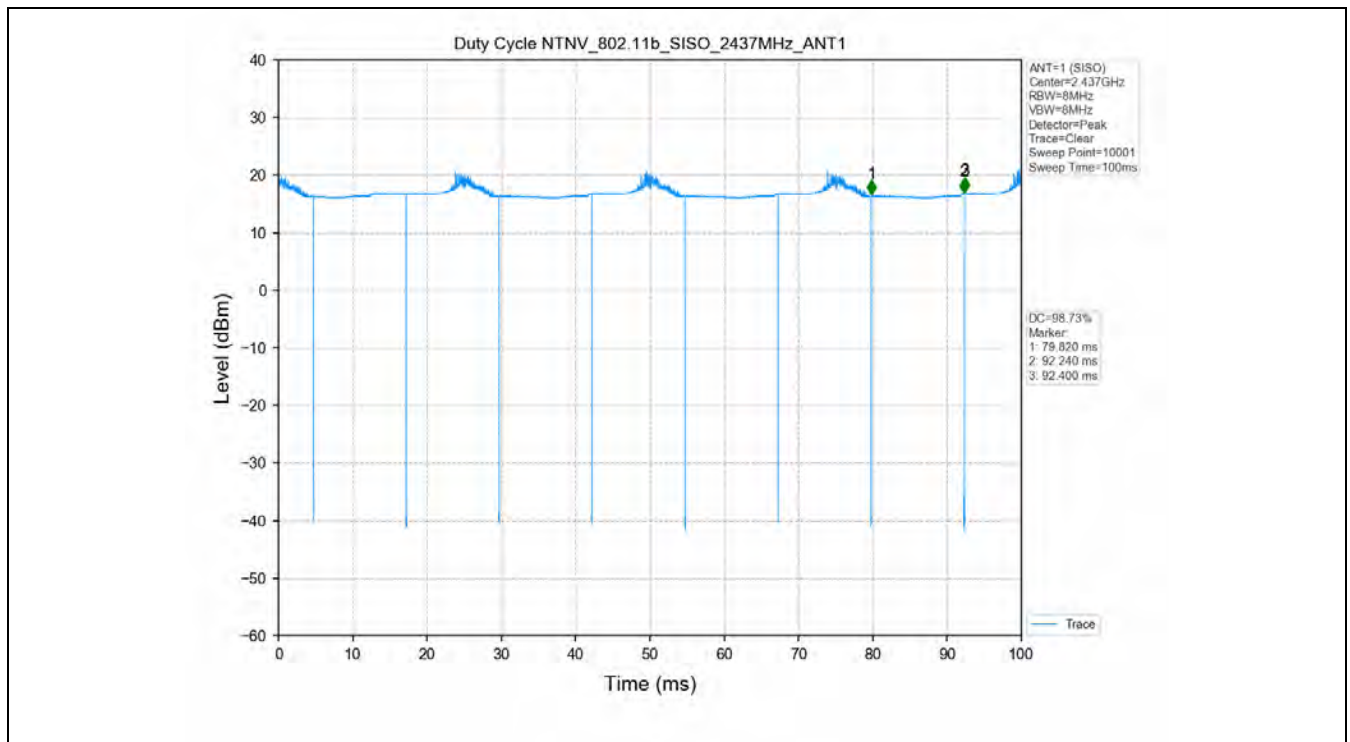
1. Duty Cycle

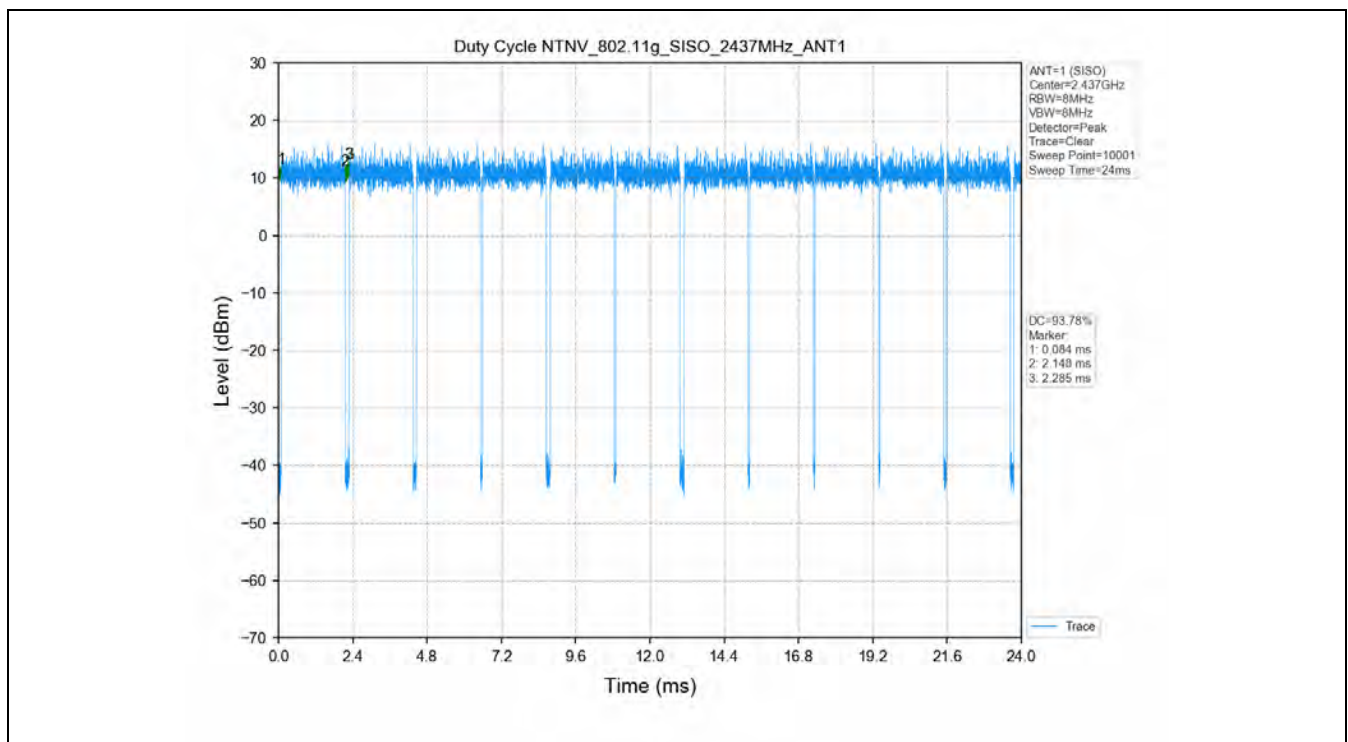
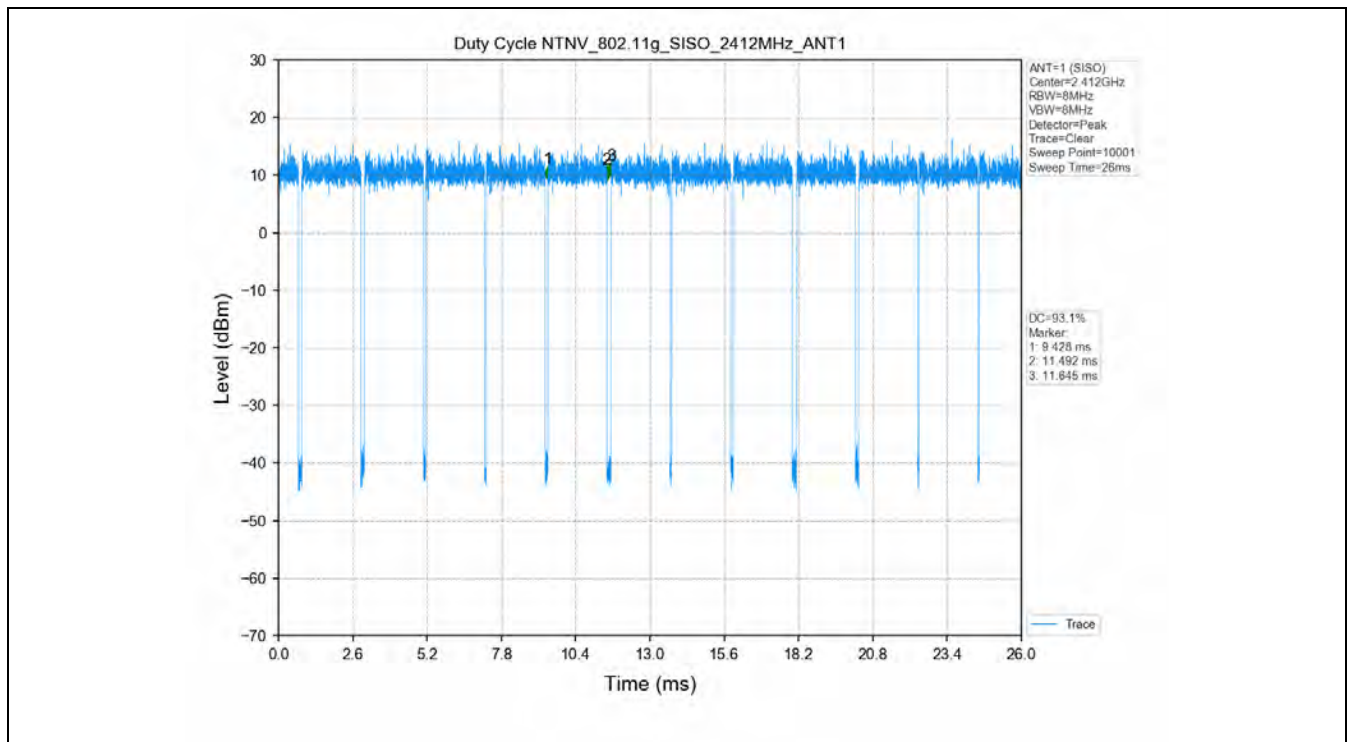
1.1 Test Result

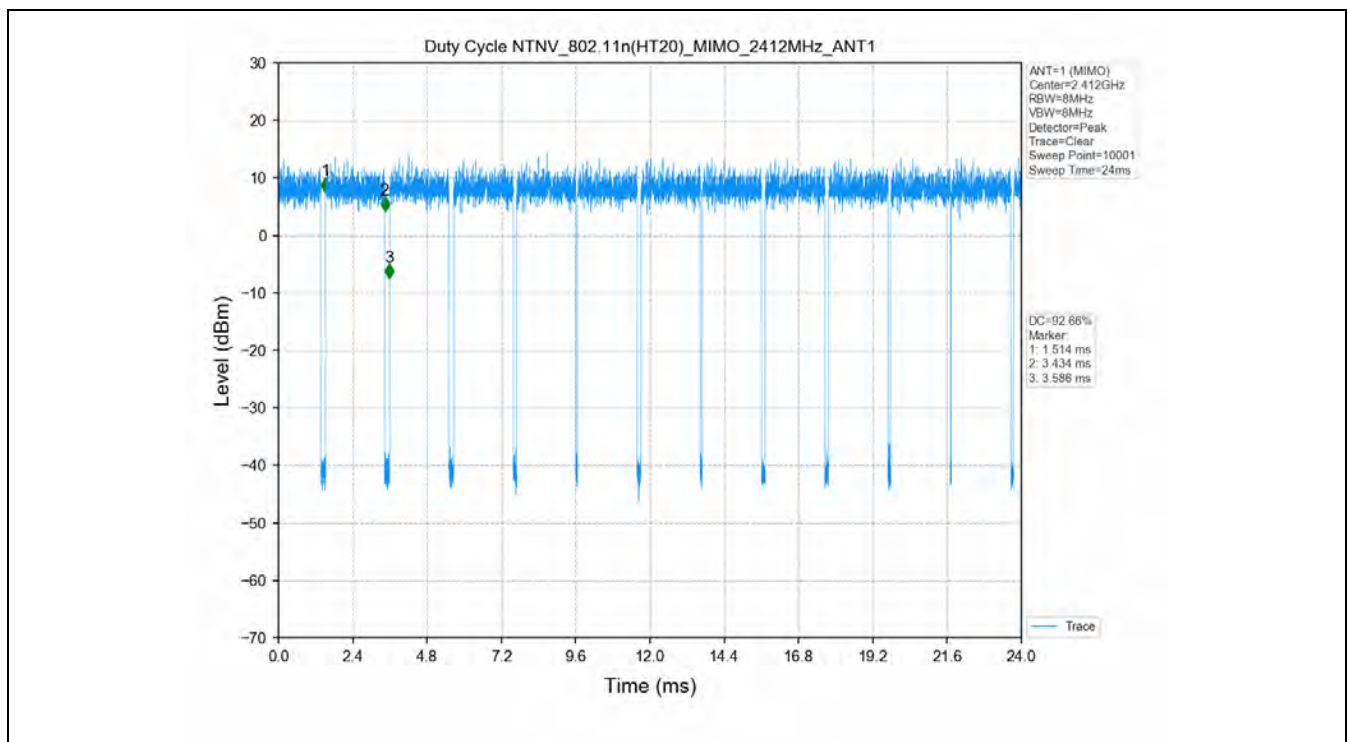
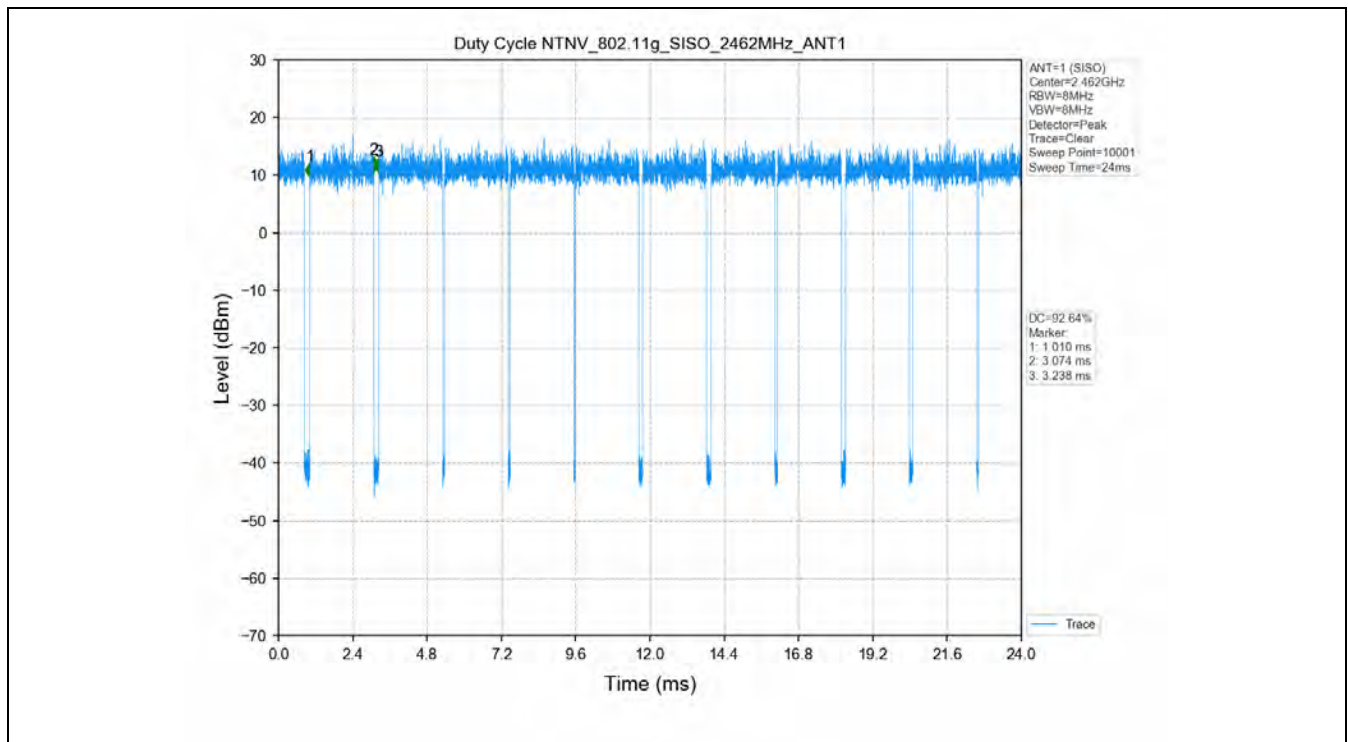
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.420	12.590	98.65	0.06
	2437	SISO	1	12.420	12.580	98.73	0.06
	2462	SISO	1	12.410	12.580	98.65	0.06
802.11g	2412	SISO	1	2.064	2.217	93.10	0.31
	2437	SISO	1	2.064	2.201	93.78	0.28
	2462	SISO	1	2.064	2.228	92.64	0.33
802.11n(HT20)	2412	MIMO	1	1.920	2.072	92.66	0.33
	2437	MIMO	1	1.921	2.081	92.31	0.35
	2462	MIMO	1	1.921	2.093	91.78	0.37
802.11n(HT40)	2422	MIMO	1	0.922	1.070	86.17	0.65
	2437	MIMO	1	0.943	1.114	84.65	0.72
	2452	MIMO	1	0.944	1.115	84.66	0.72

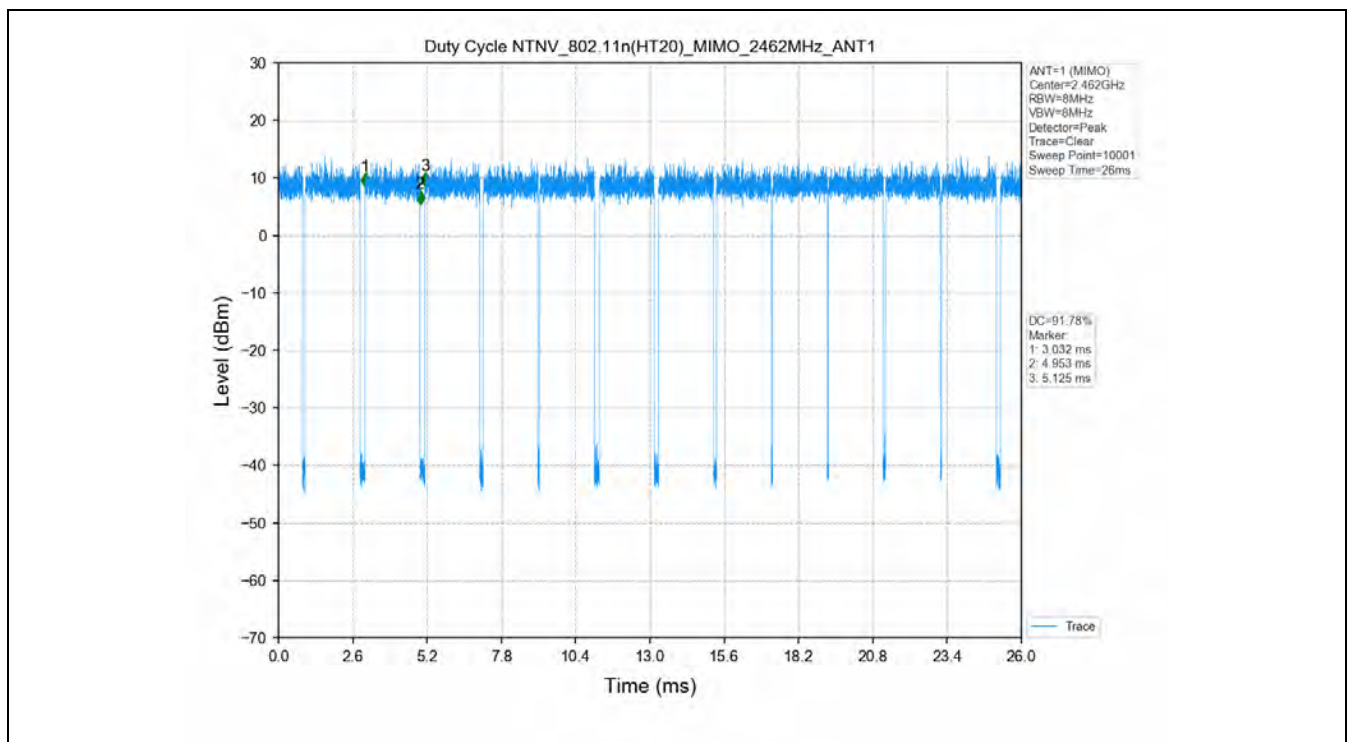
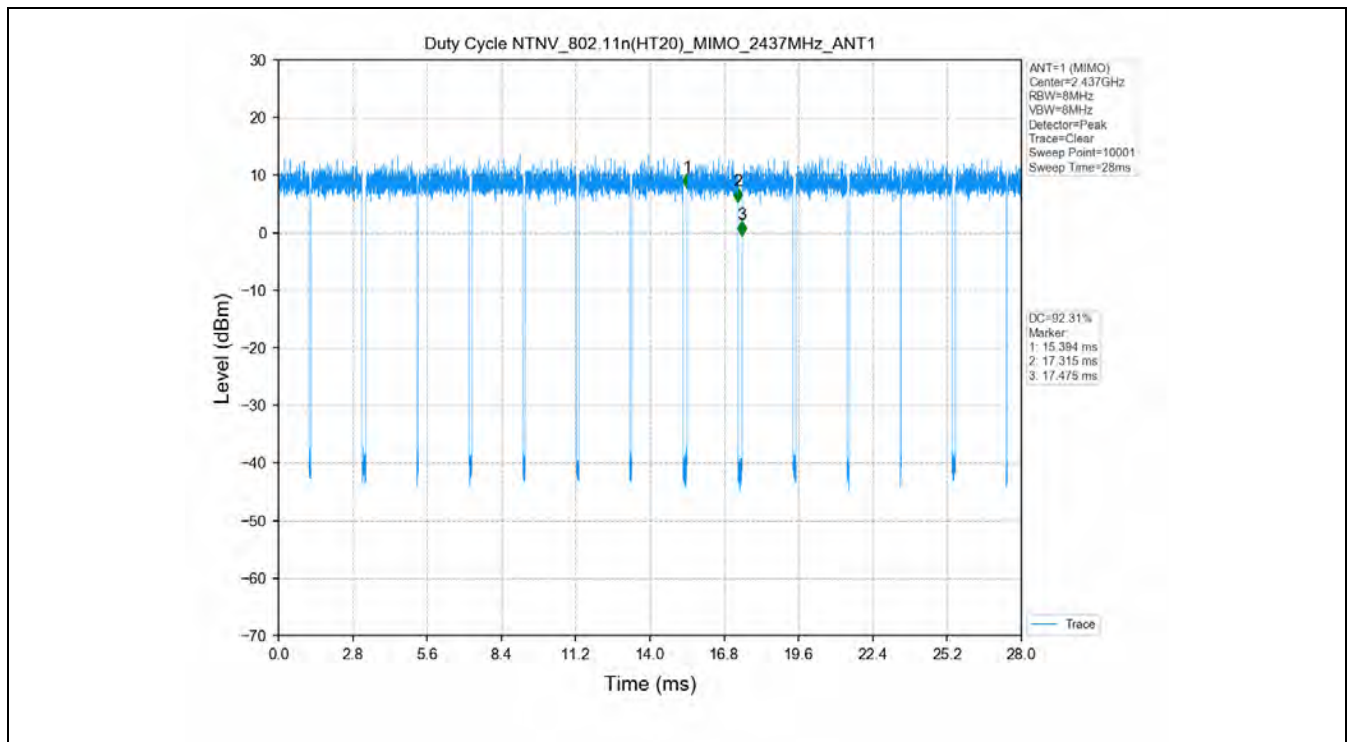
1.2 Test Graph

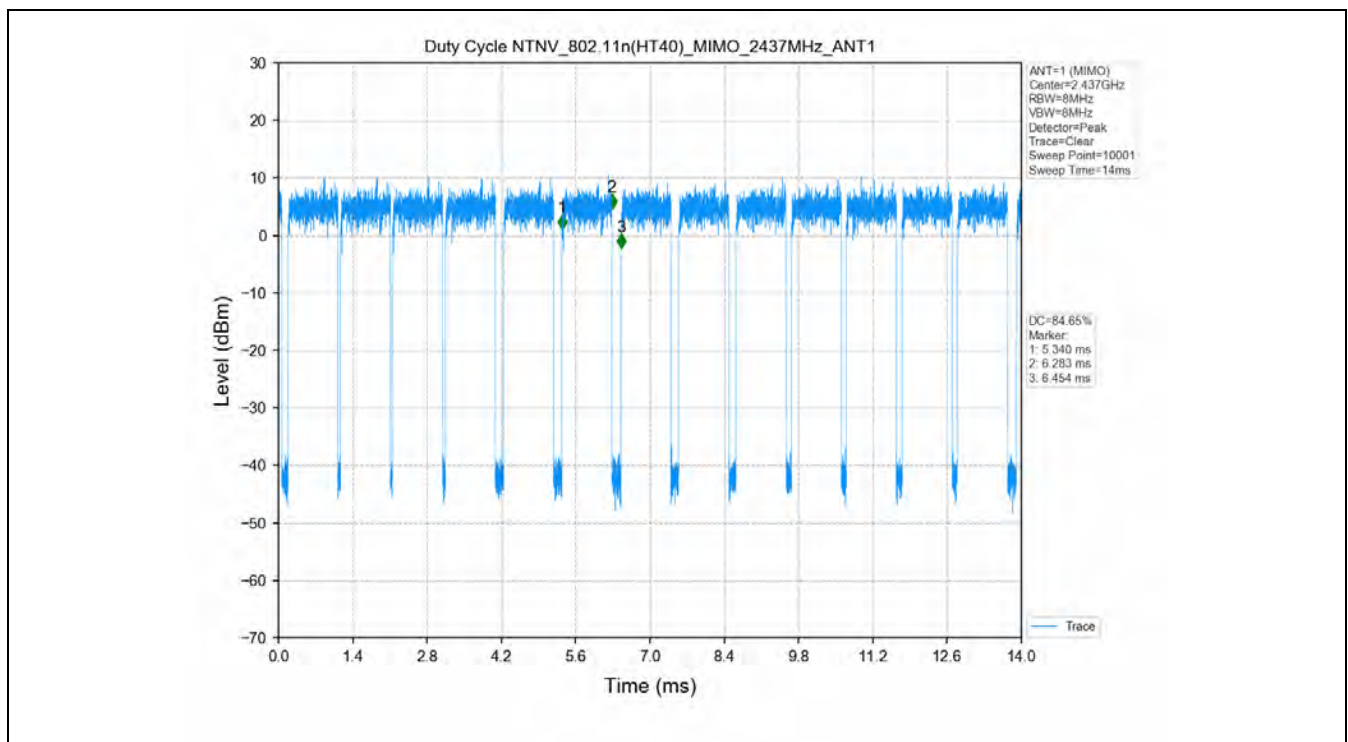
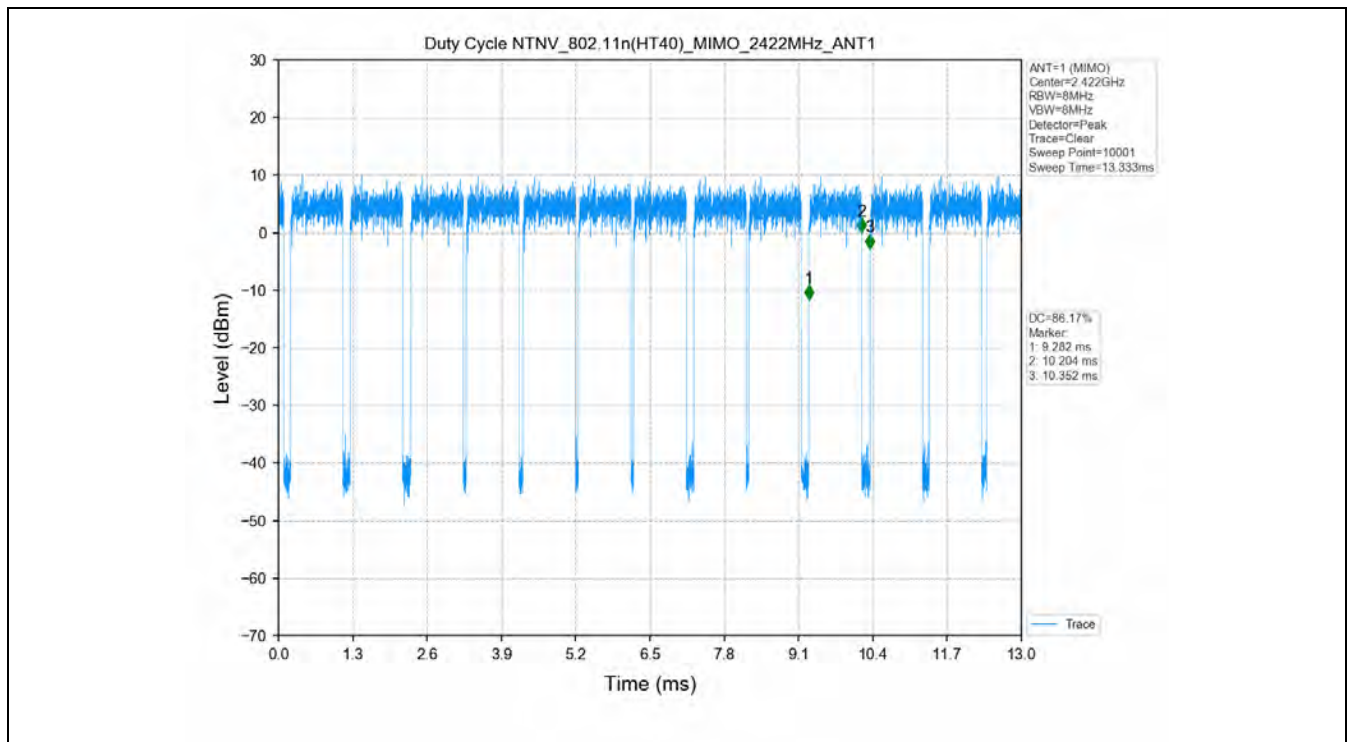


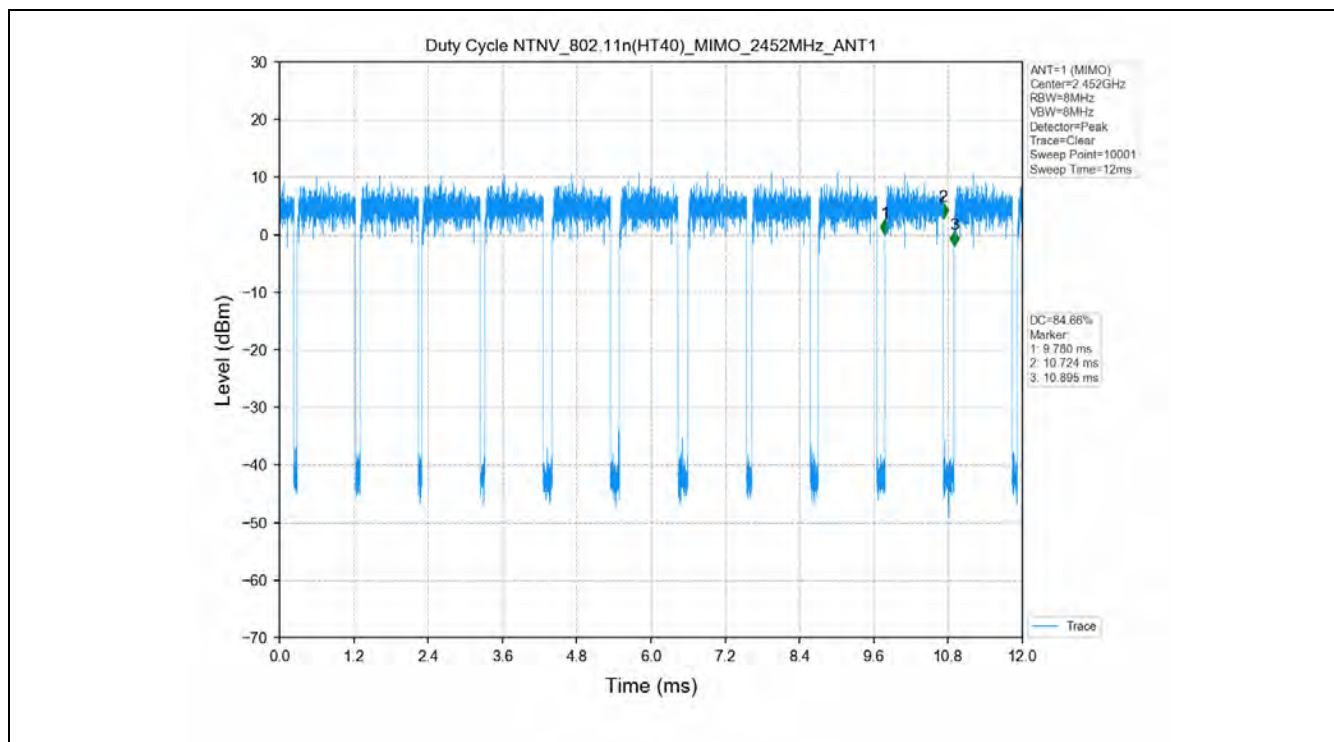












2. Bandwidth

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	9.588	≥ 0.5	PASS
			2	9.585	≥ 0.5	PASS
	2437	SISO	1	10.053	≥ 0.5	PASS
			2	10.102	≥ 0.5	PASS
	2462	SISO	1	10.087	≥ 0.5	PASS
			2	10.113	≥ 0.5	PASS
802.11g	2412	SISO	1	16.403	≥ 0.5	PASS
			2	16.453	≥ 0.5	PASS
	2437	SISO	1	16.420	≥ 0.5	PASS
			2	16.393	≥ 0.5	PASS
	2462	SISO	1	16.409	≥ 0.5	PASS
			2	16.408	≥ 0.5	PASS
802.11n(HT20)	2412	MIMO	1	17.610	≥ 0.5	PASS
			2	17.609	≥ 0.5	PASS
	2437	MIMO	1	17.618	≥ 0.5	PASS
			2	17.613	≥ 0.5	PASS
	2462	MIMO	1	17.602	≥ 0.5	PASS
			2	17.631	≥ 0.5	PASS
802.11n(HT40)	2422	MIMO	1	35.922	≥ 0.5	PASS
			2	35.659	≥ 0.5	PASS
	2437	MIMO	1	35.678	≥ 0.5	PASS

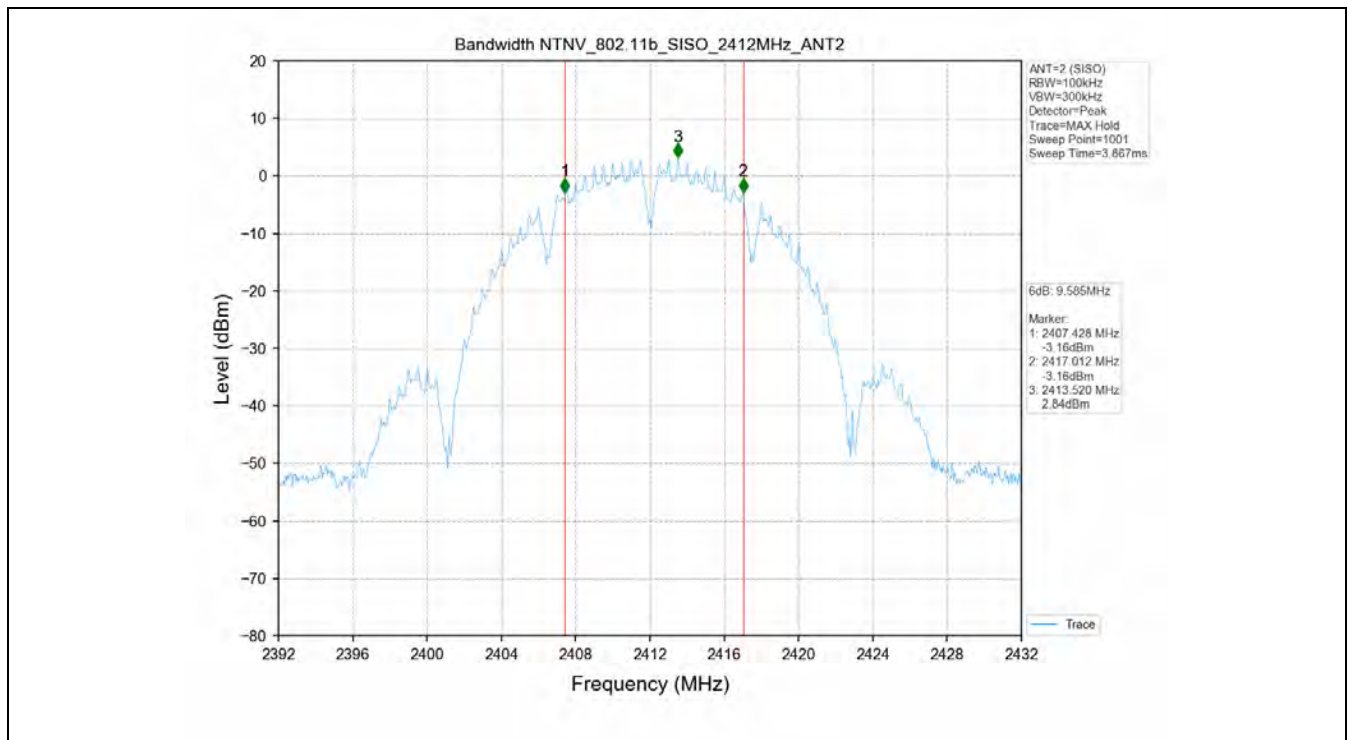
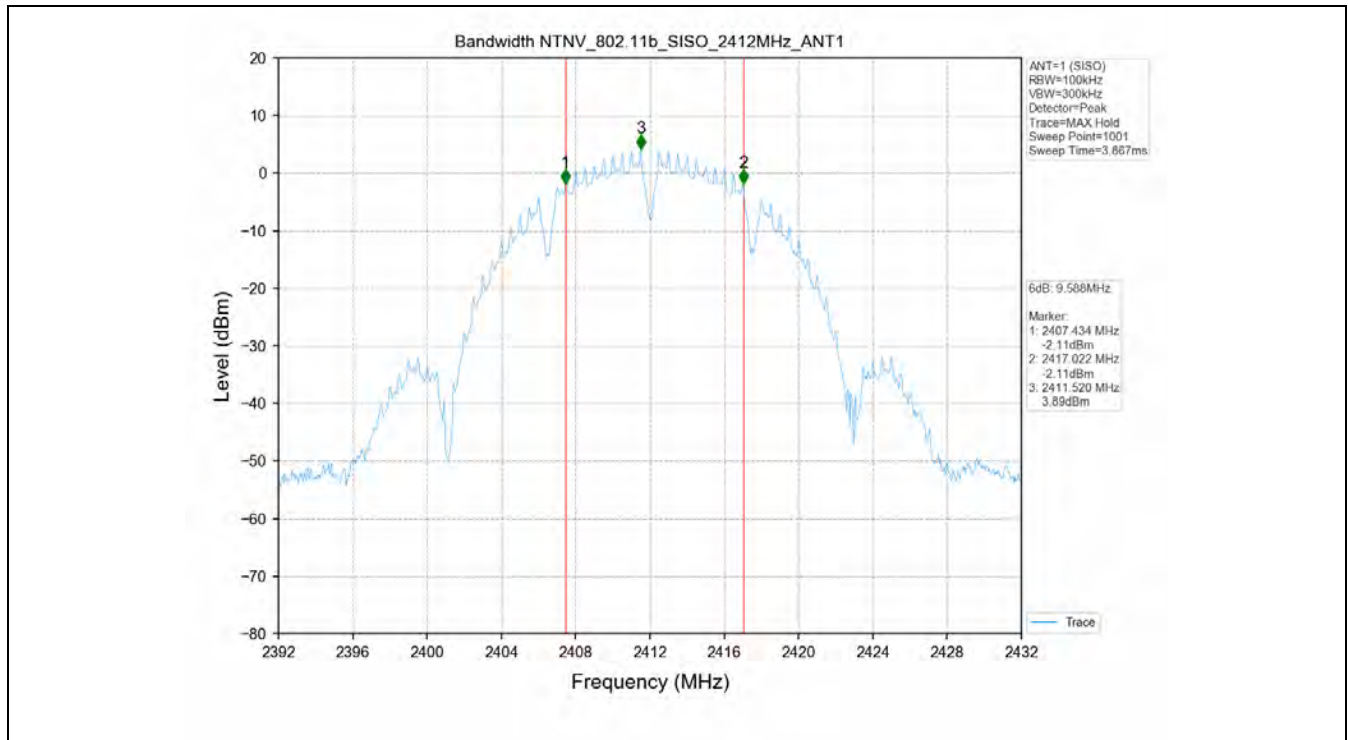


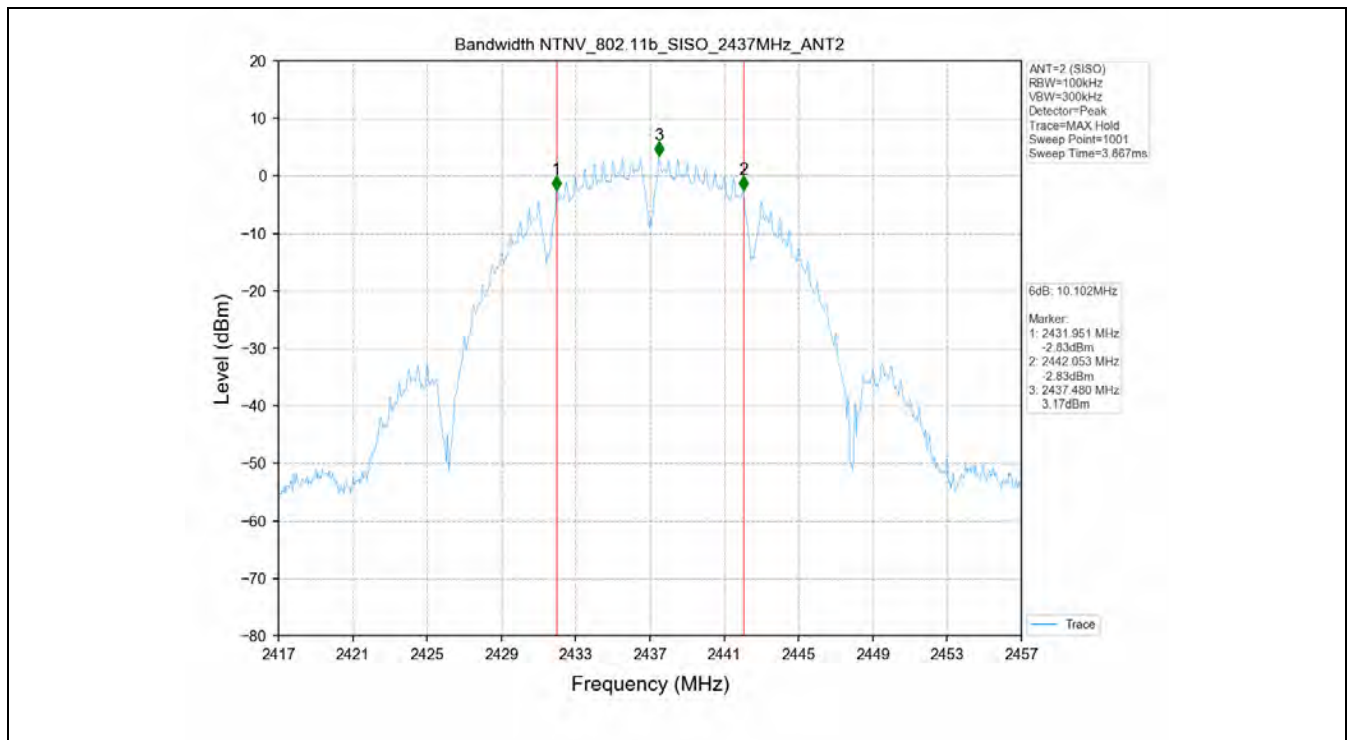
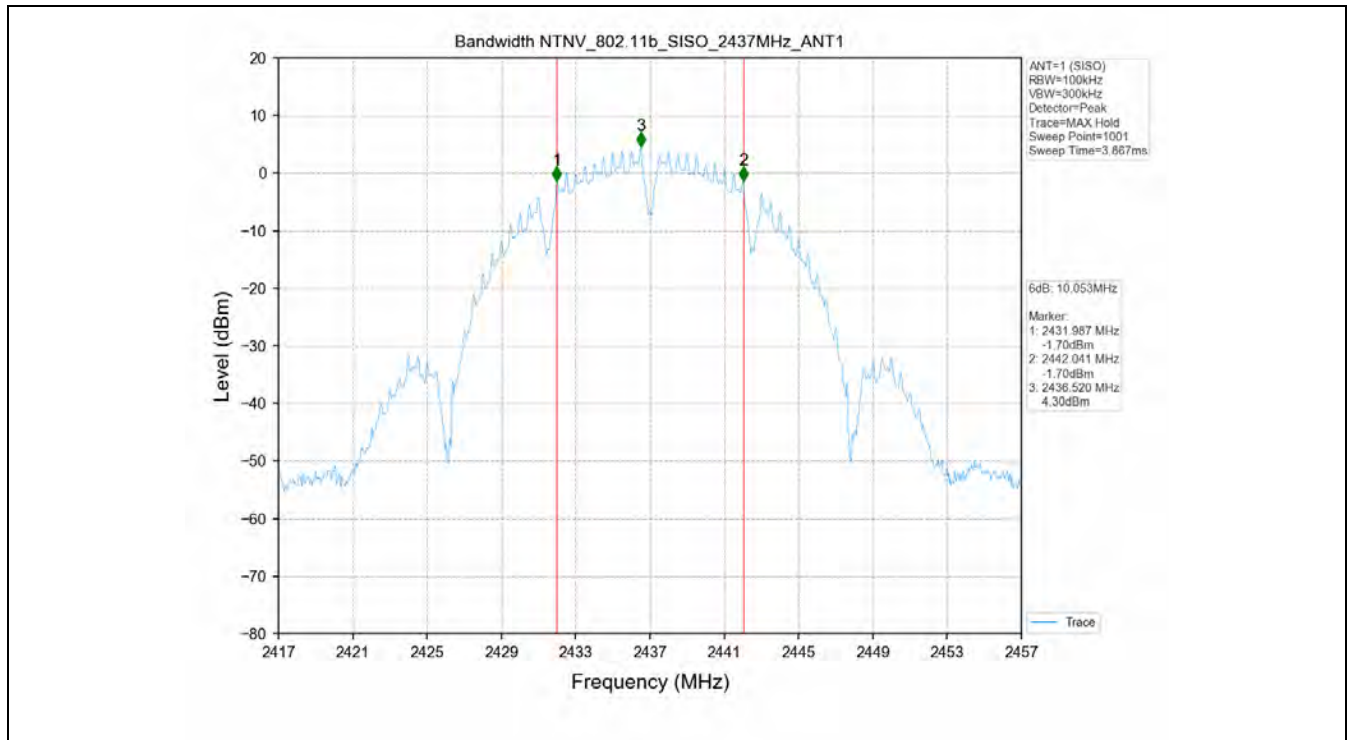
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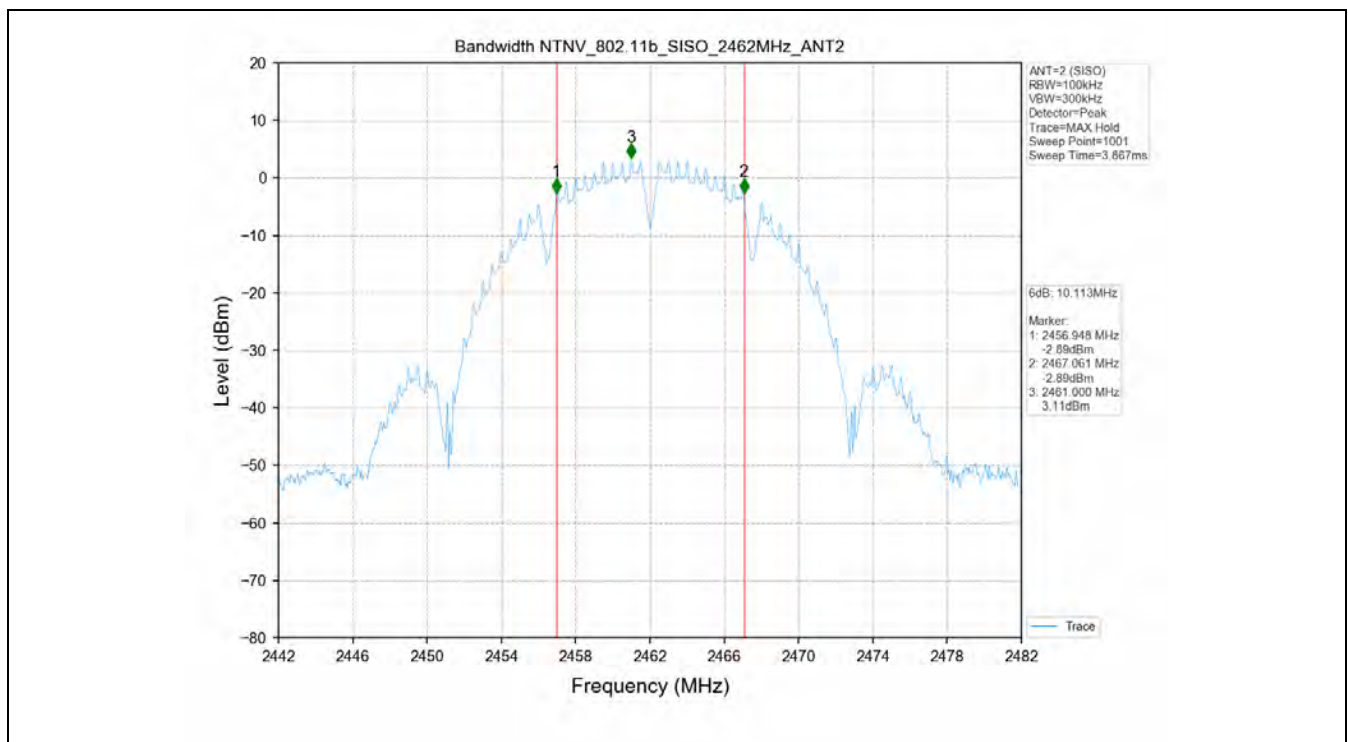
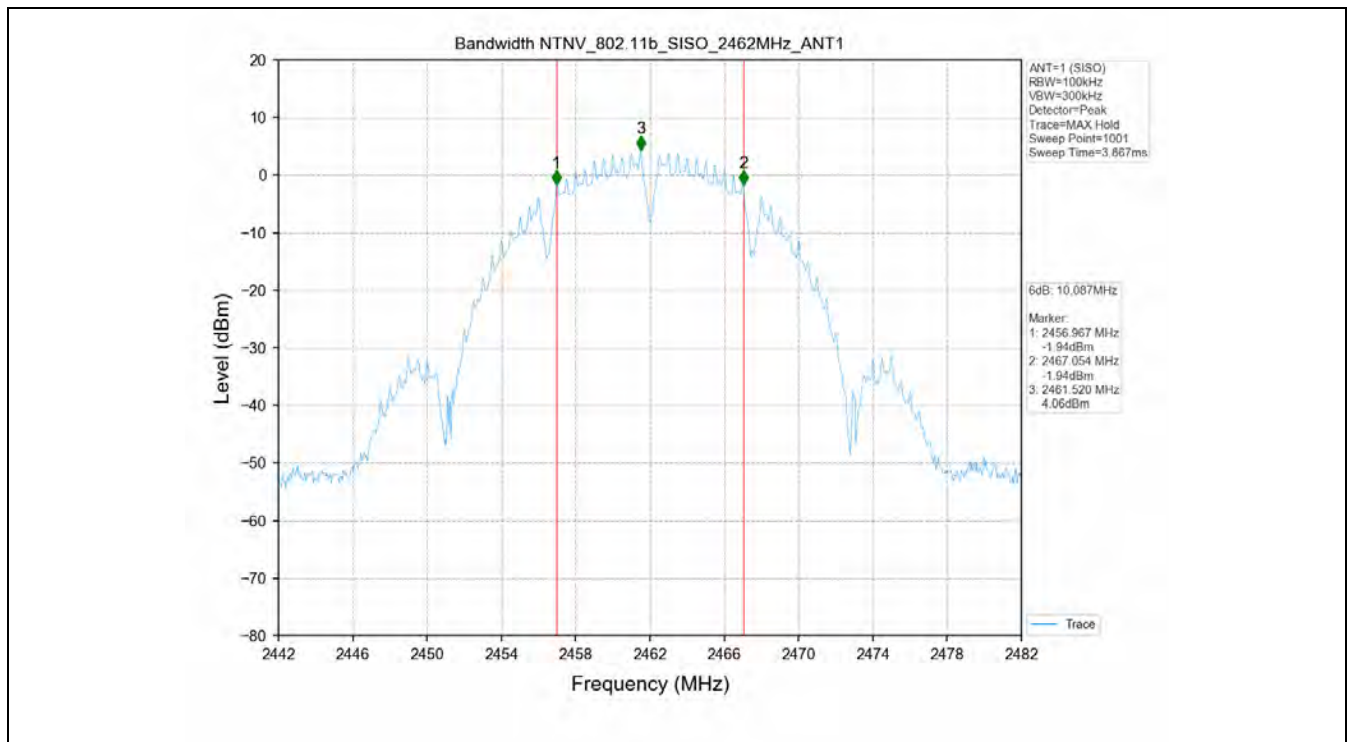
			2	35.415	≥ 0.5	PASS
	2452	MIMO	1	35.703	≥ 0.5	PASS
			2	35.782	≥ 0.5	PASS

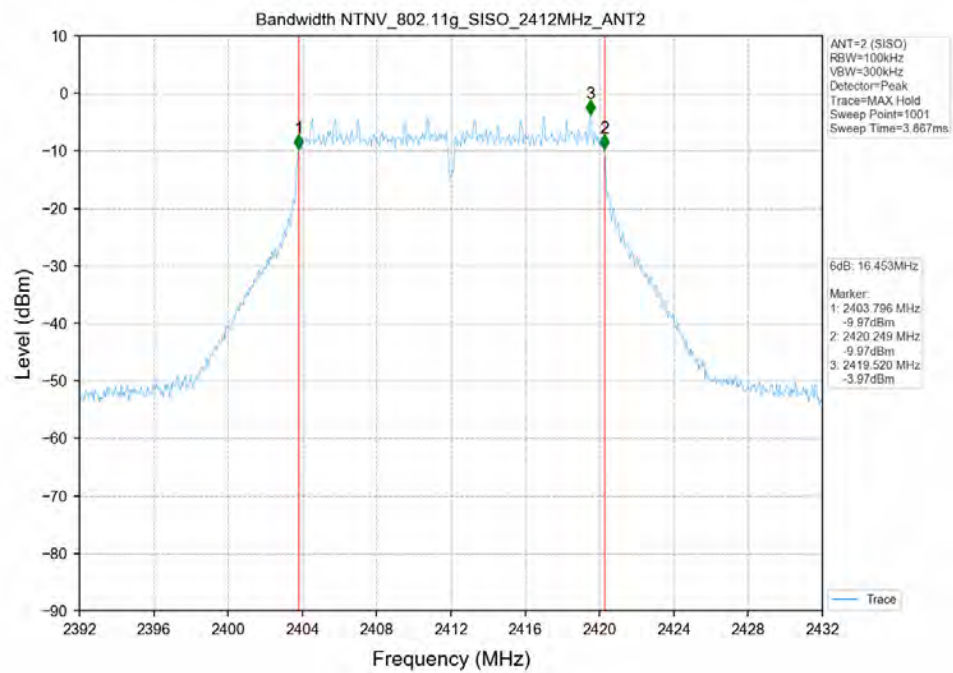
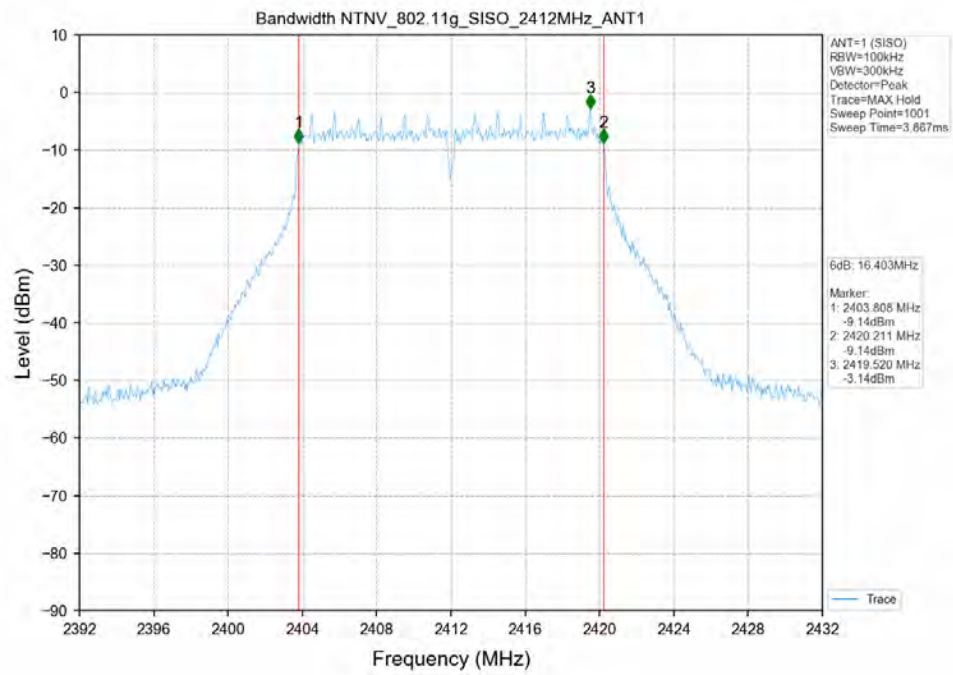
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.106	Only for Report Use
			2	15.089	Only for Report Use
	2437	SISO	1	15.088	Only for Report Use
			2	15.084	Only for Report Use
	2462	SISO	1	15.092	Only for Report Use
			2	15.085	Only for Report Use
802.11g	2412	SISO	1	17.057	Only for Report Use
			2	16.894	Only for Report Use
	2437	SISO	1	17.087	Only for Report Use
			2	16.996	Only for Report Use
	2462	SISO	1	16.927	Only for Report Use
			2	16.932	Only for Report Use
802.11n(HT20)	2412	MIMO	1	18.084	Only for Report Use
			2	18.081	Only for Report Use
	2437	MIMO	1	18.127	Only for Report Use
			2	18.136	Only for Report Use
	2462	MIMO	1	18.084	Only for Report Use
			2	18.073	Only for Report Use
802.11n(HT40)	2422	MIMO	1	36.430	Only for Report Use
			2	36.577	Only for Report Use
	2437	MIMO	1	36.557	Only for Report Use
			2	36.628	Only for Report Use
	2452	MIMO	1	36.587	Only for Report Use
			2	36.648	Only for Report Use

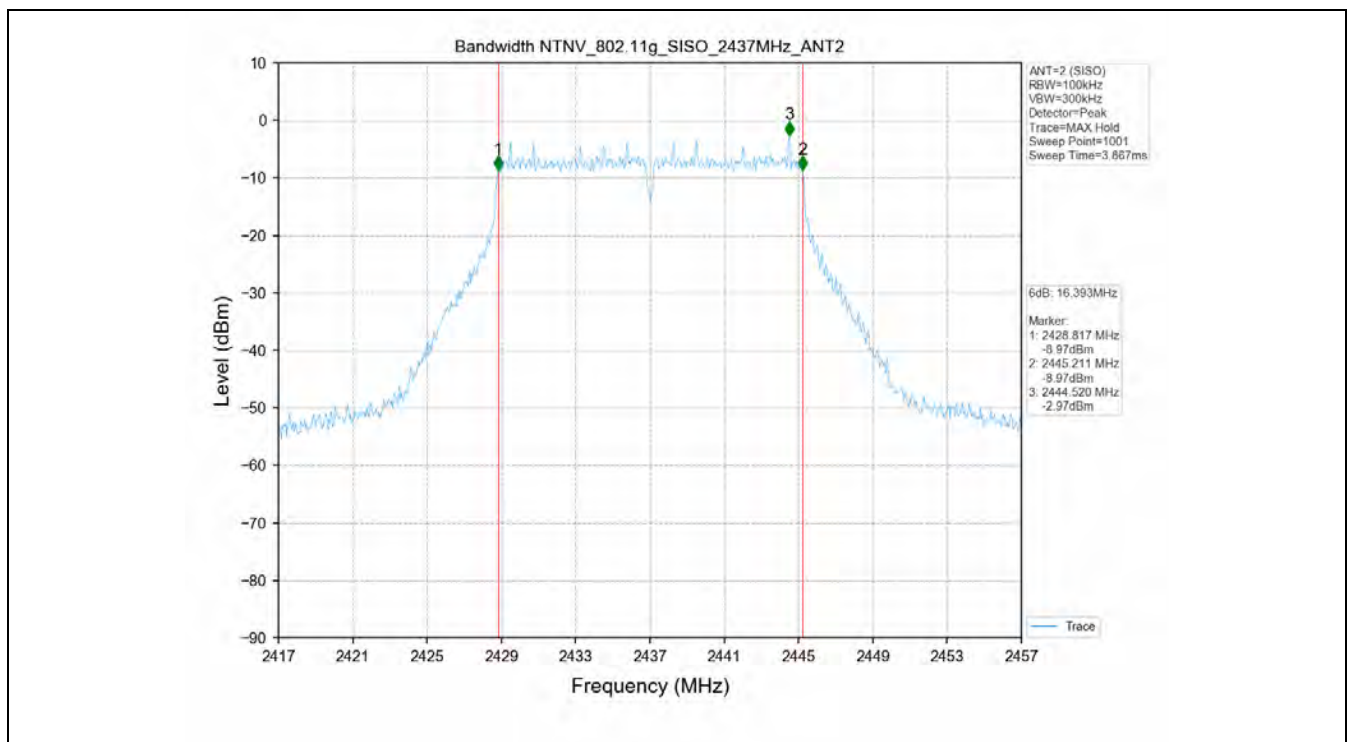
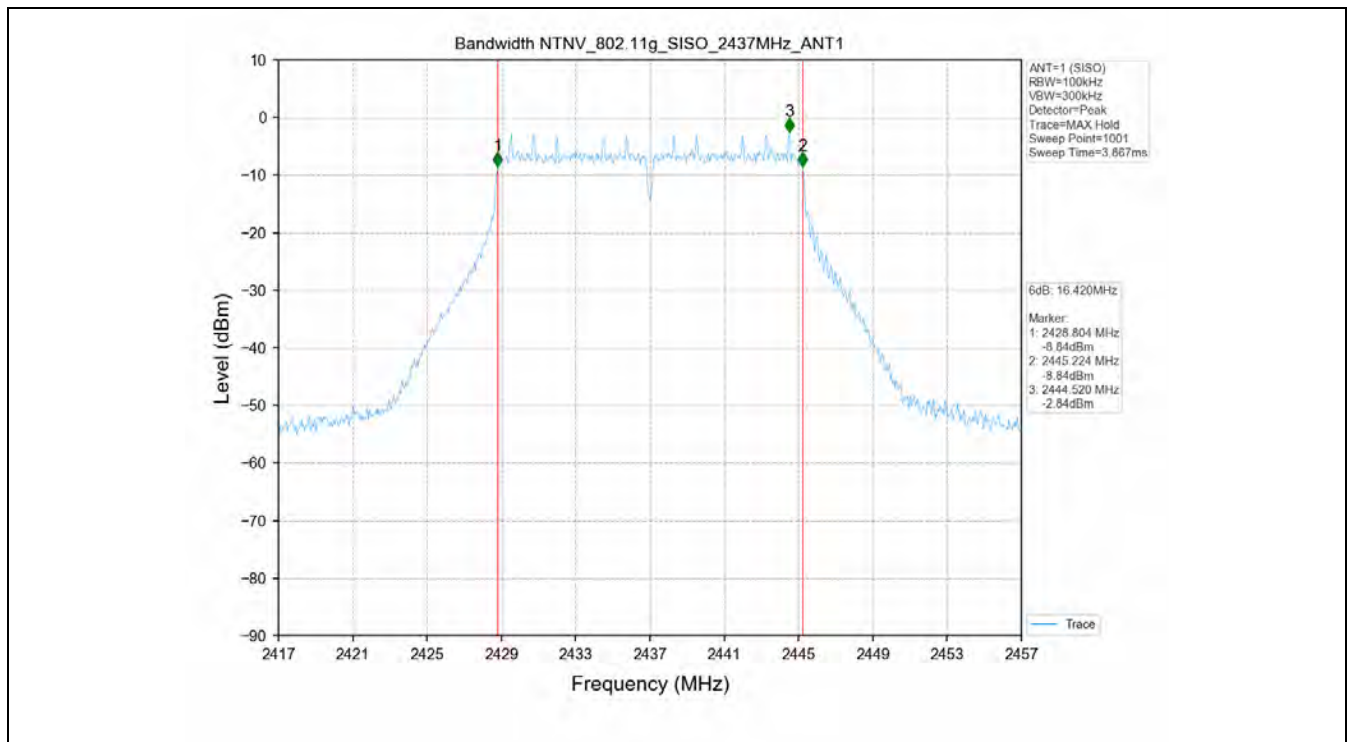
2.2 Test Graph - 6dB Bandwidth

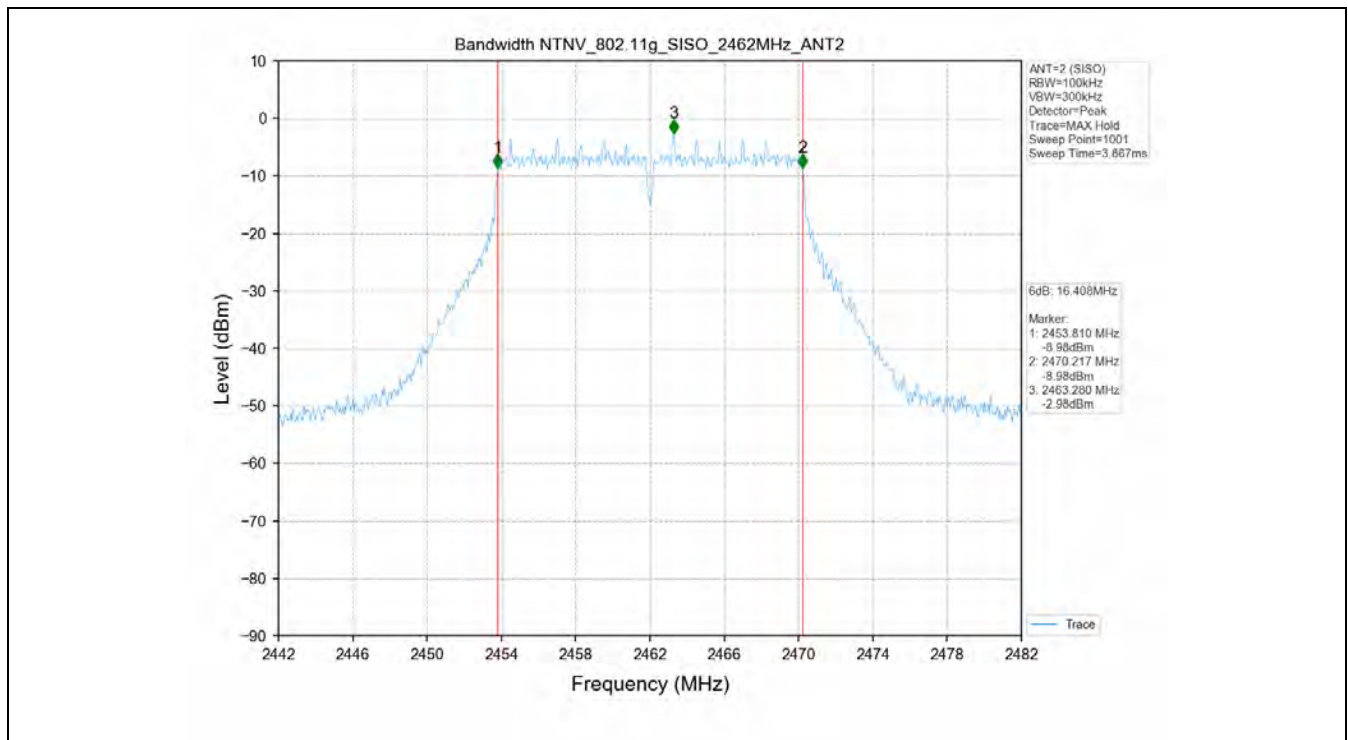
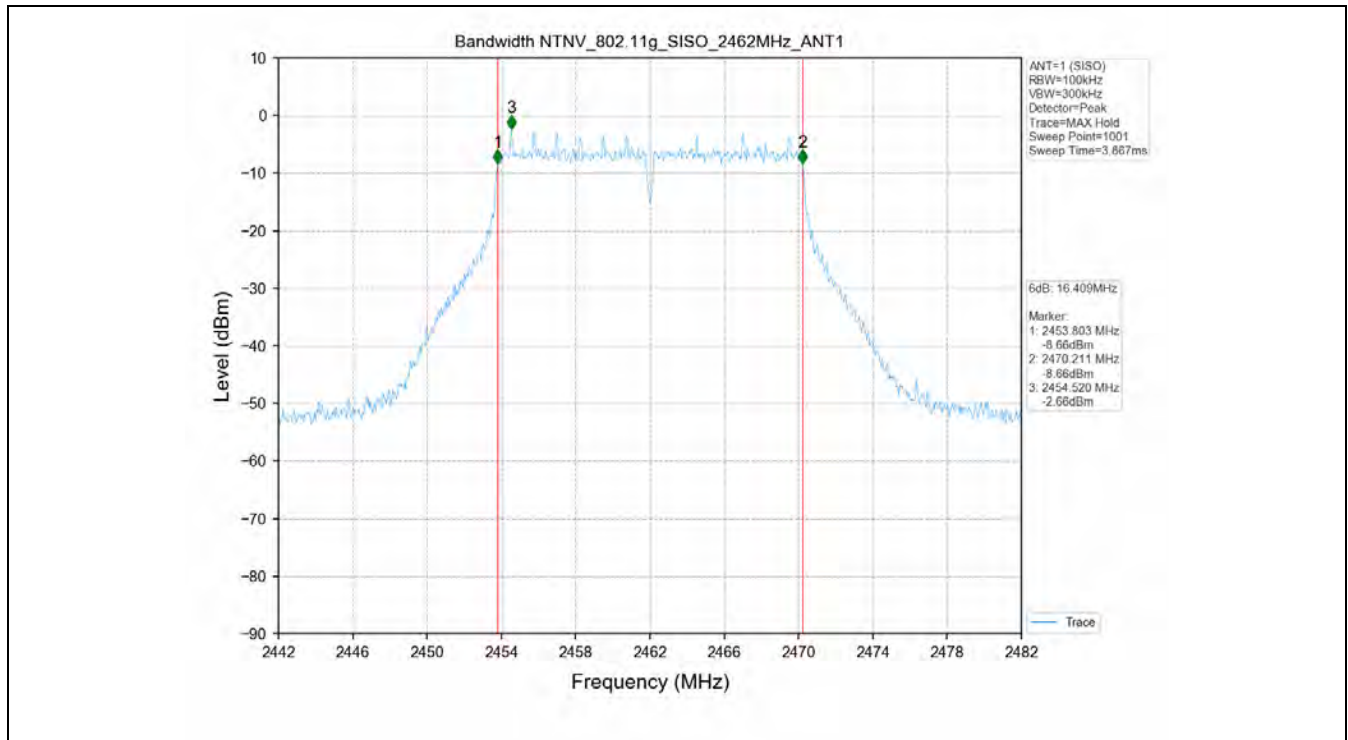


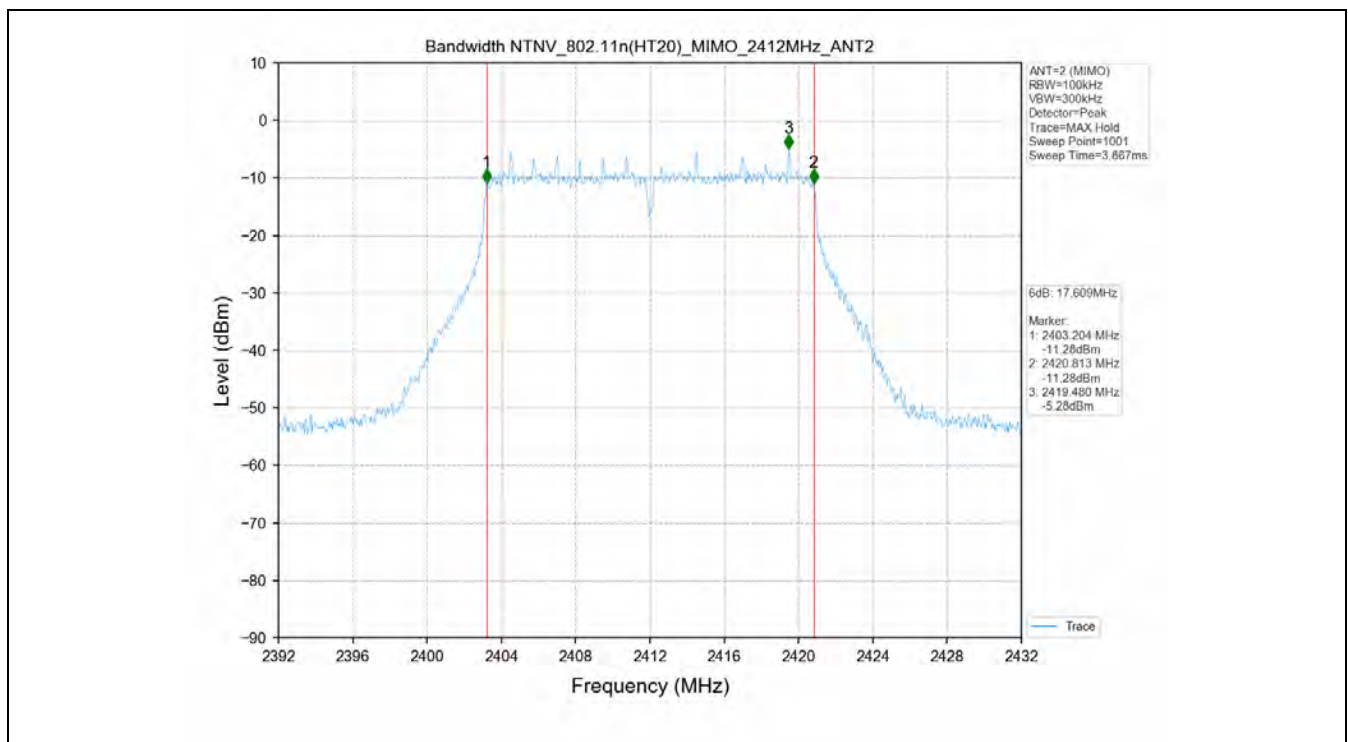
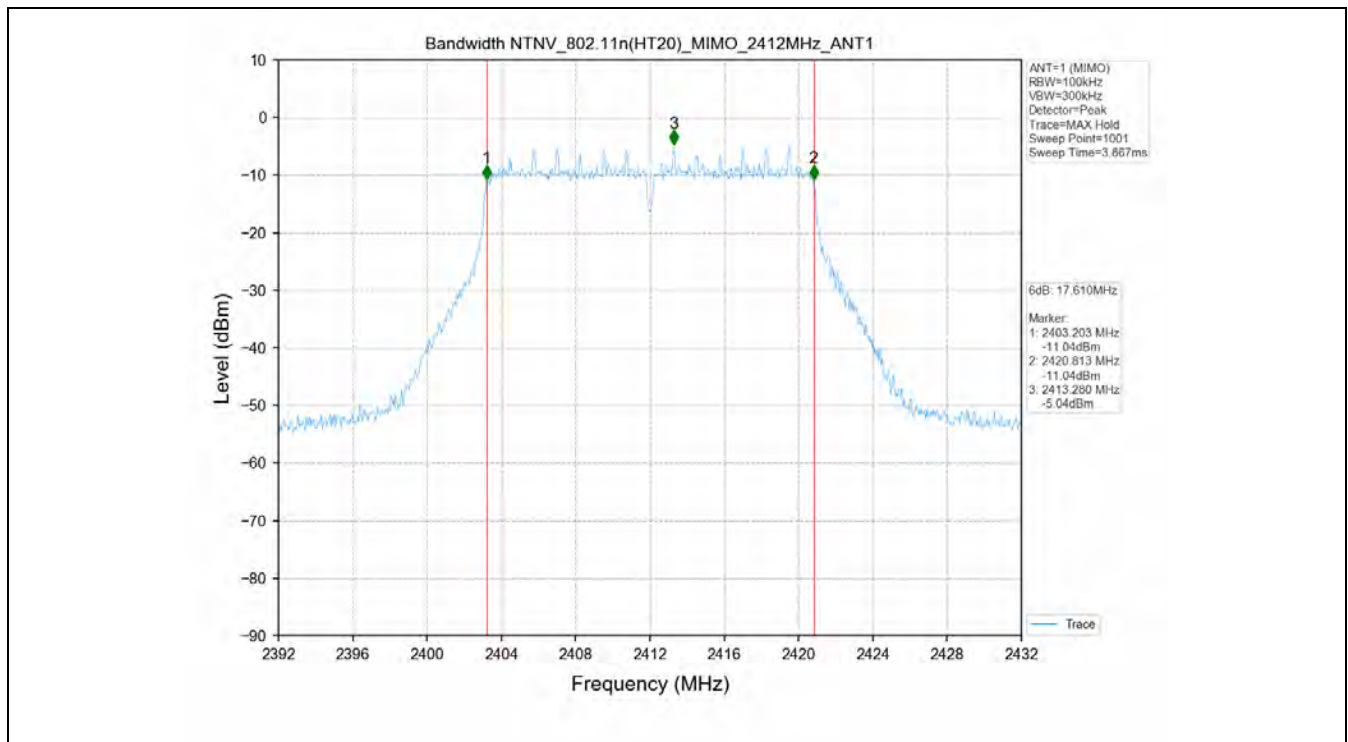


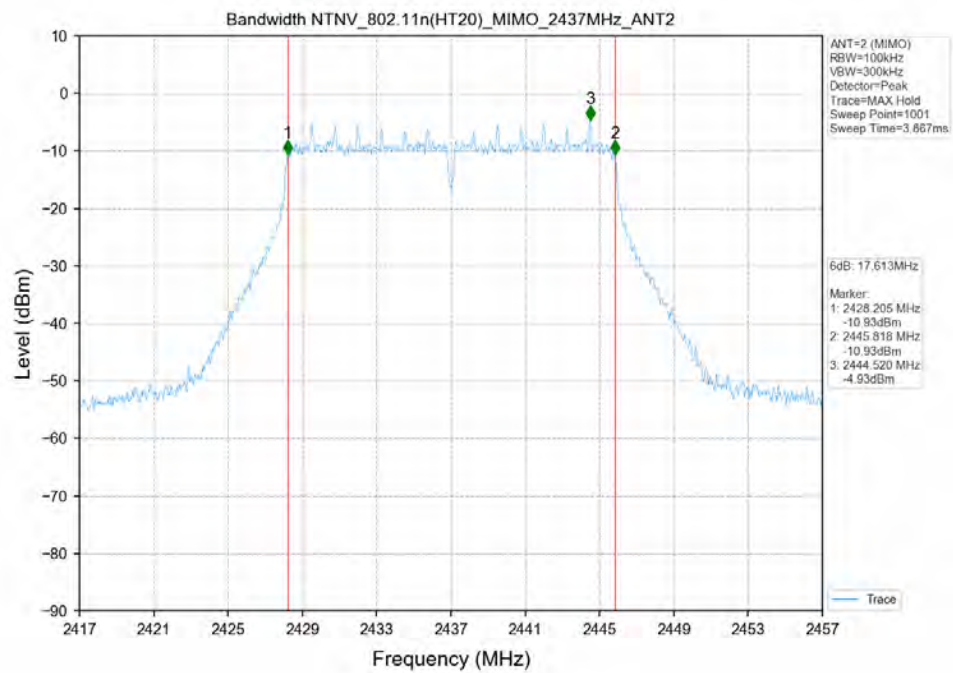
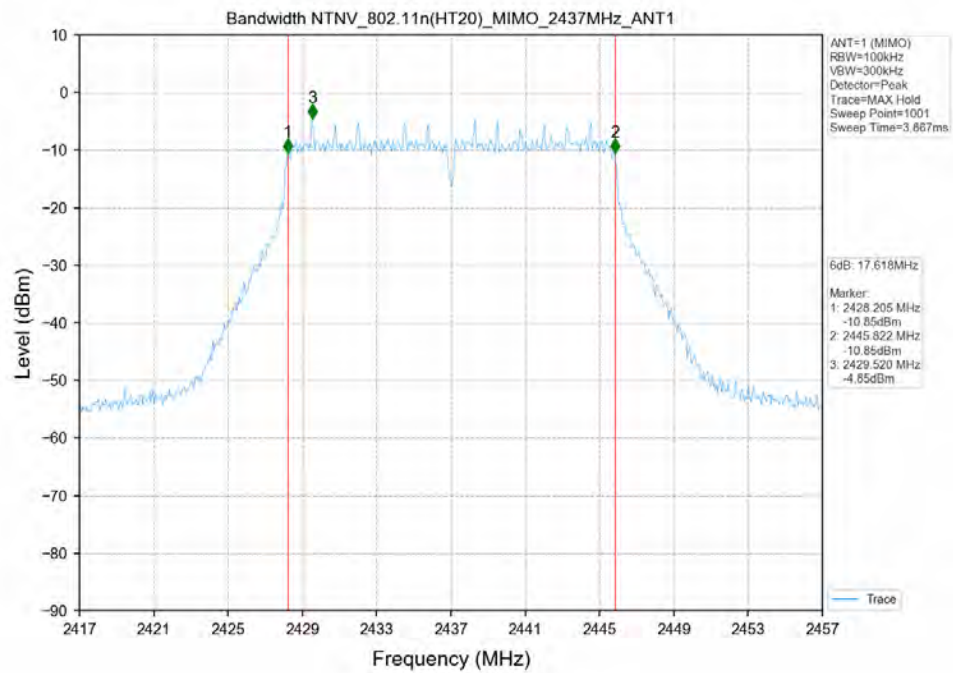


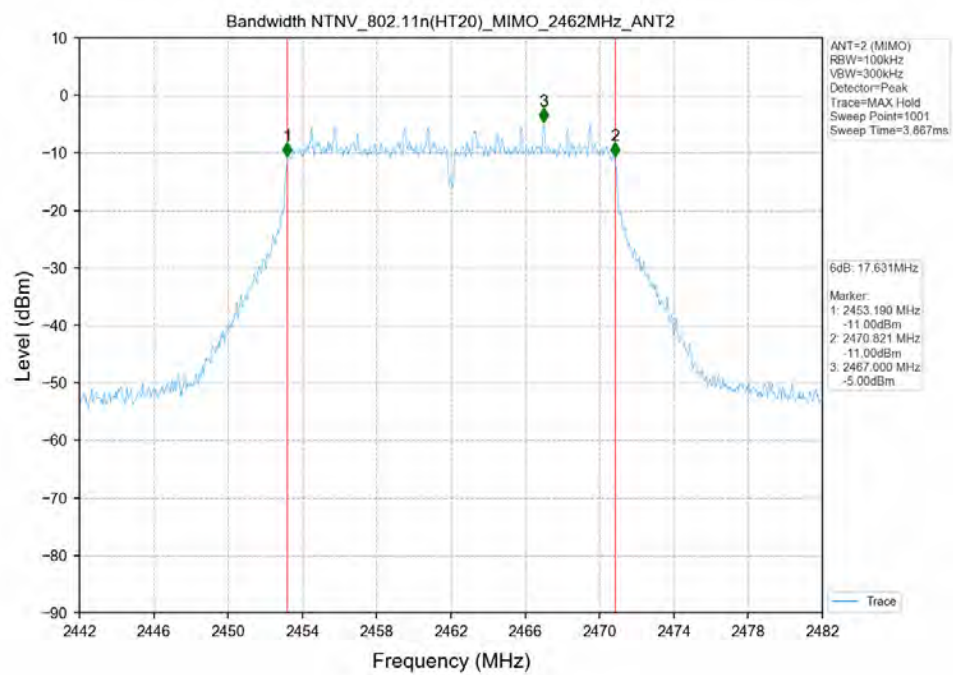
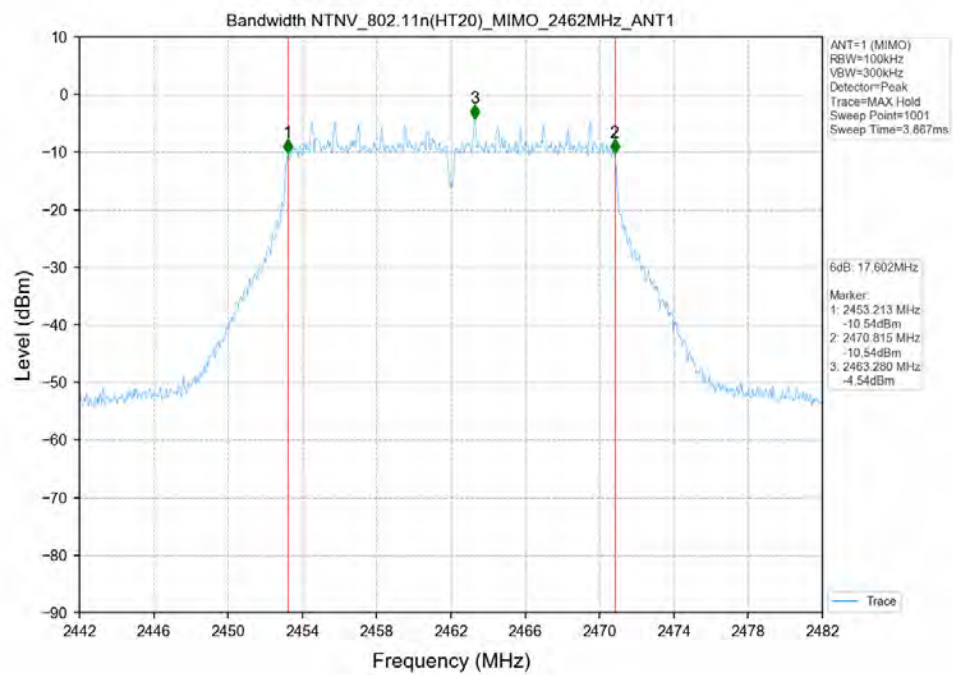






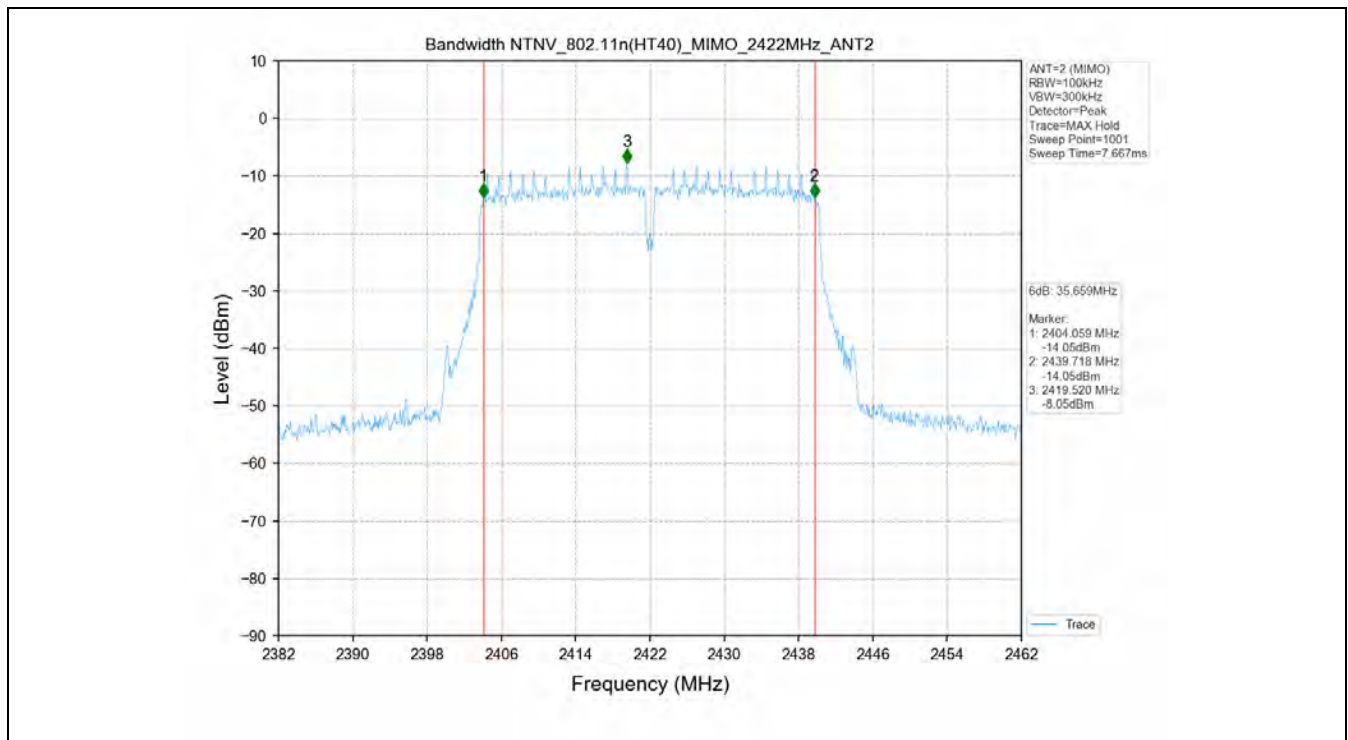
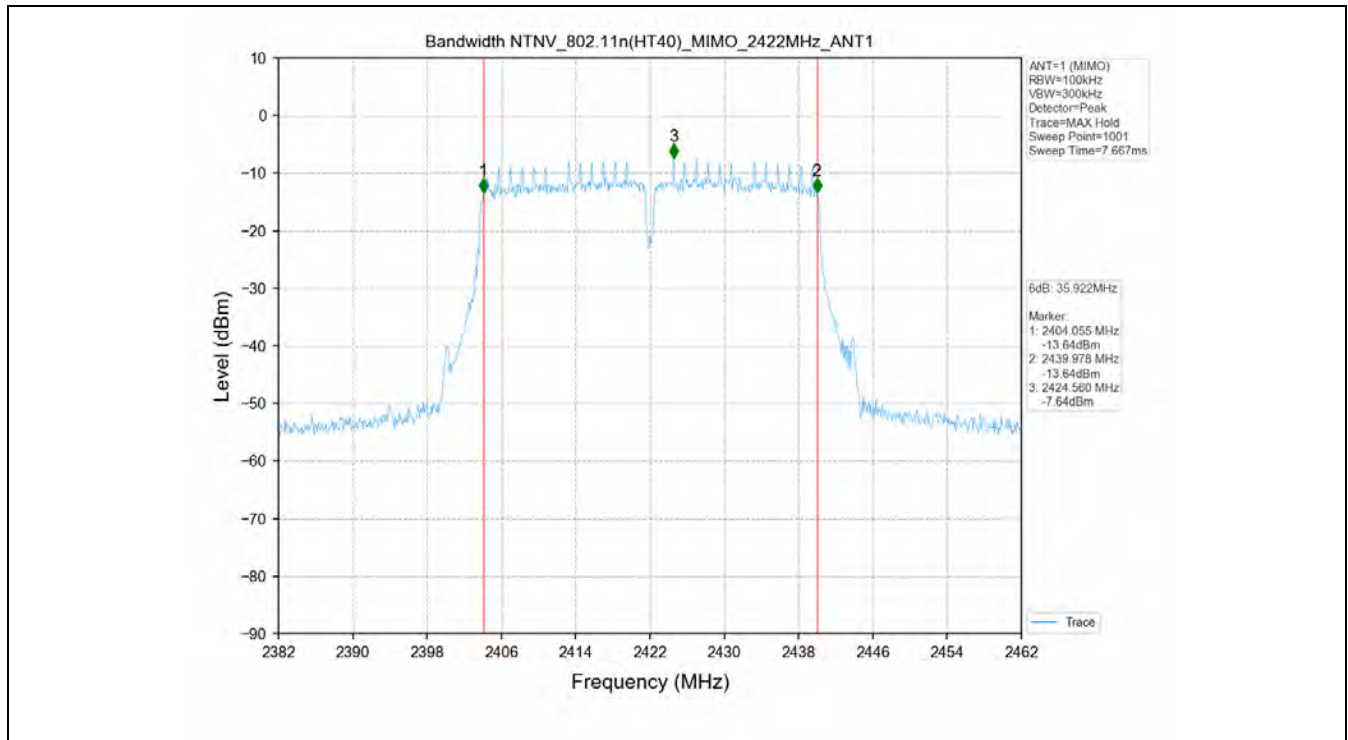


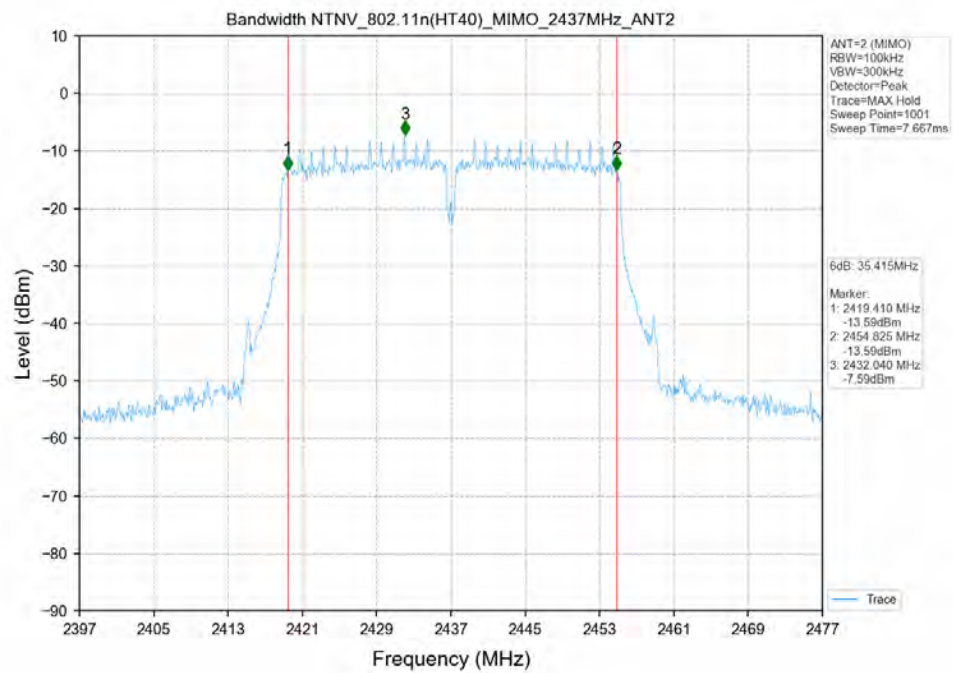
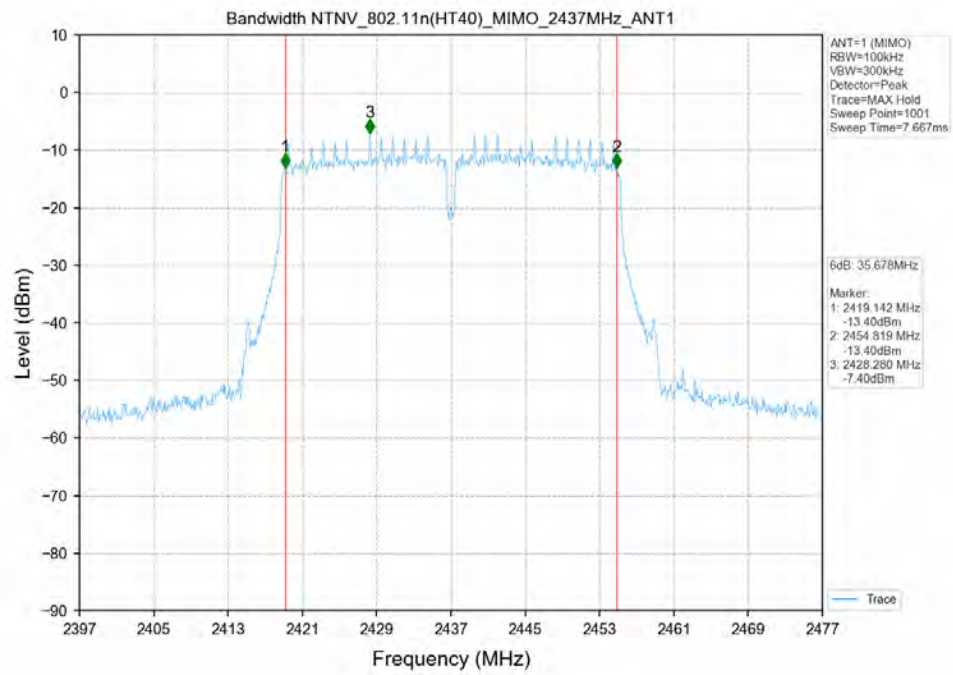


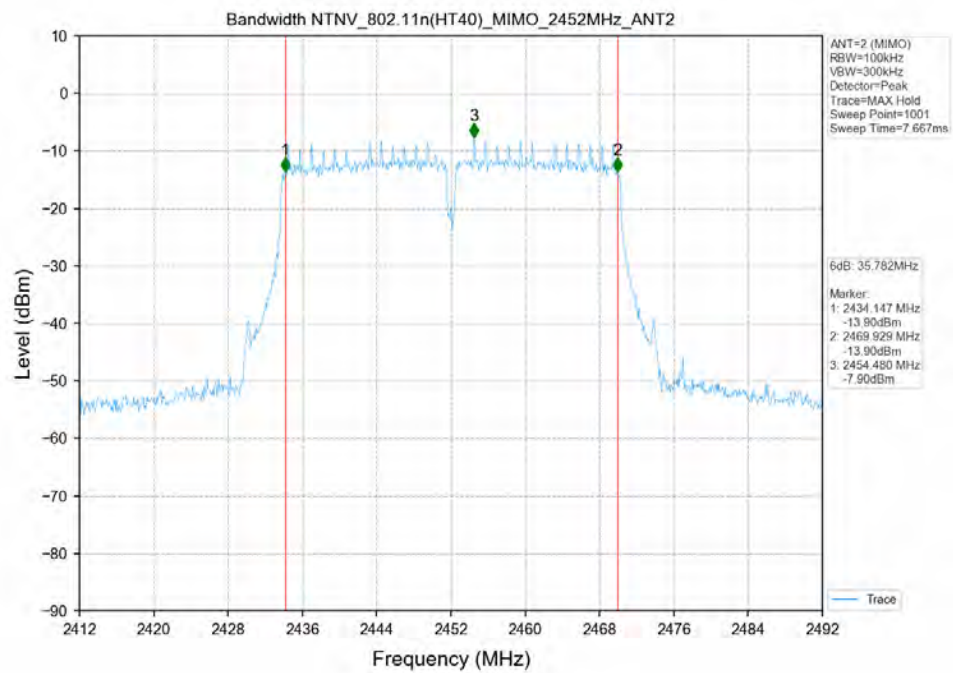
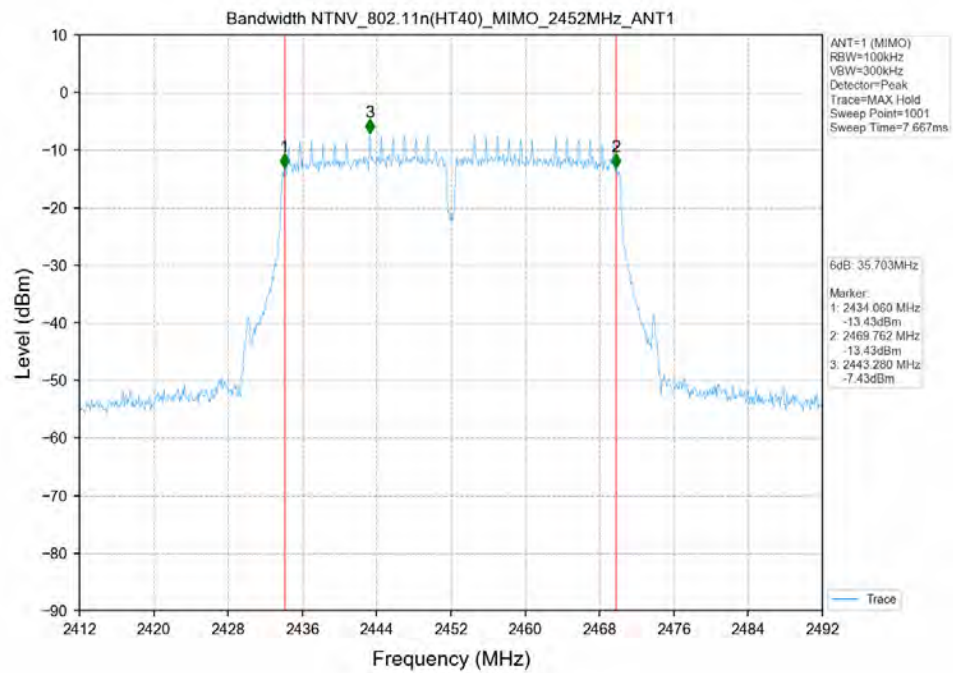




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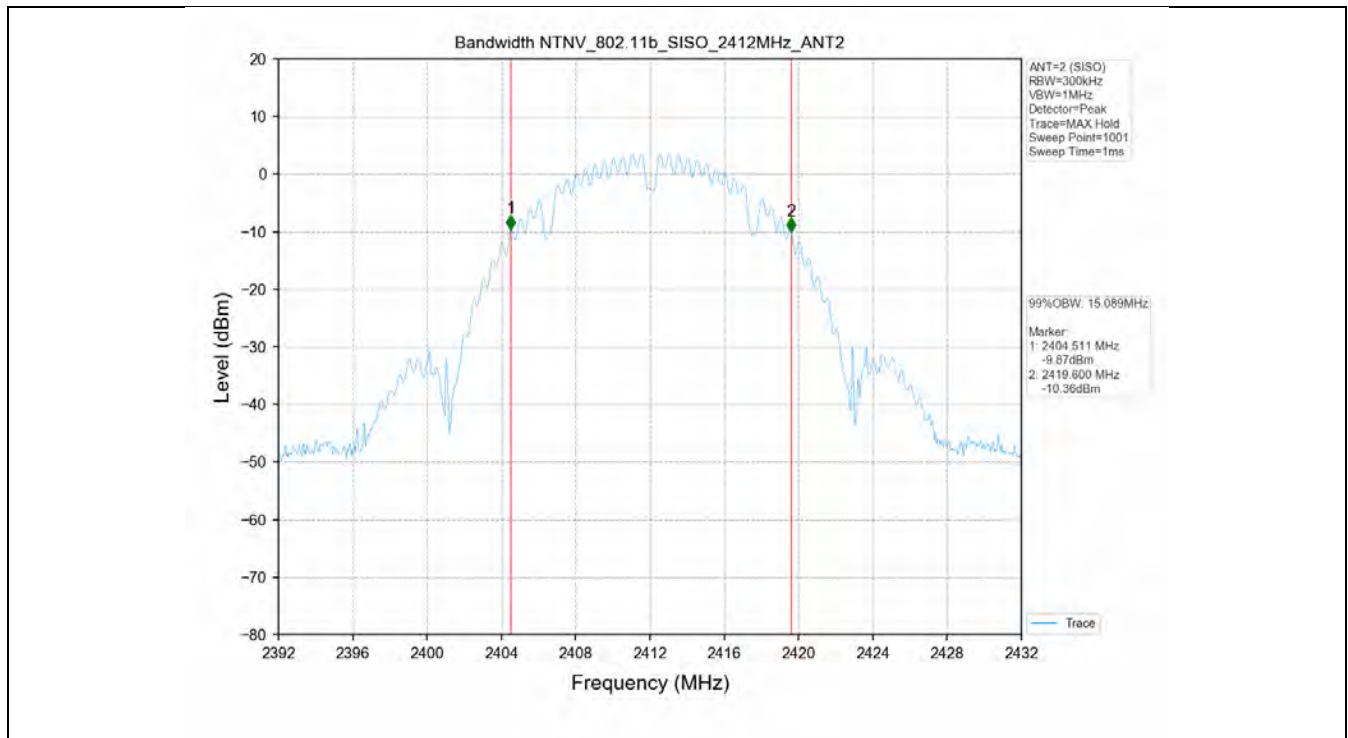
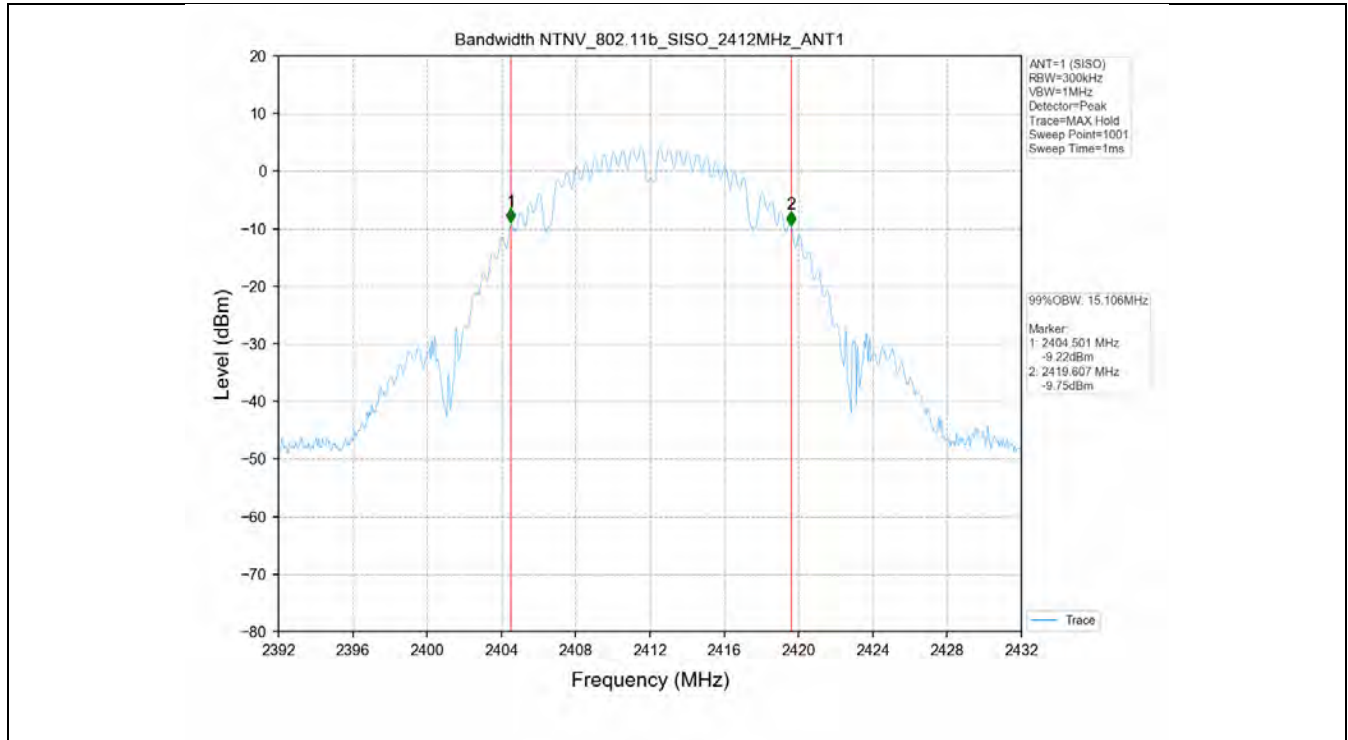


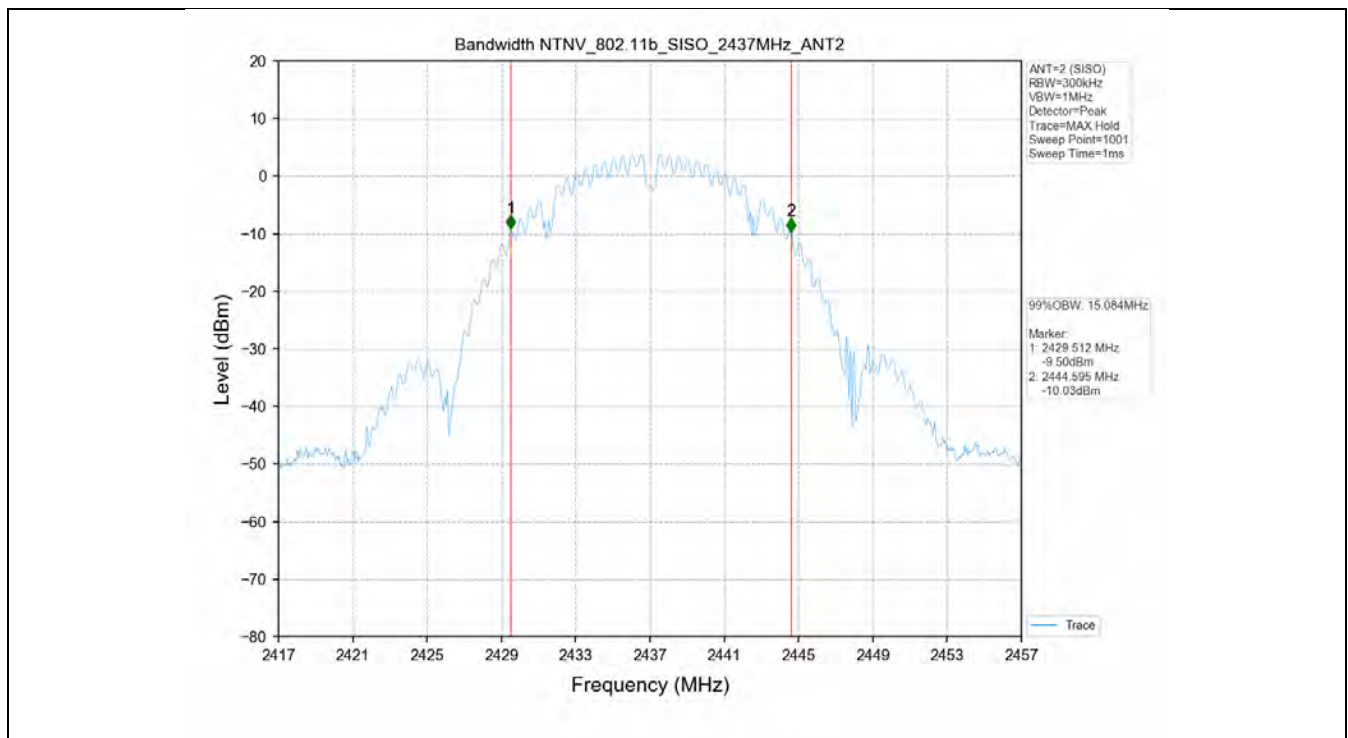
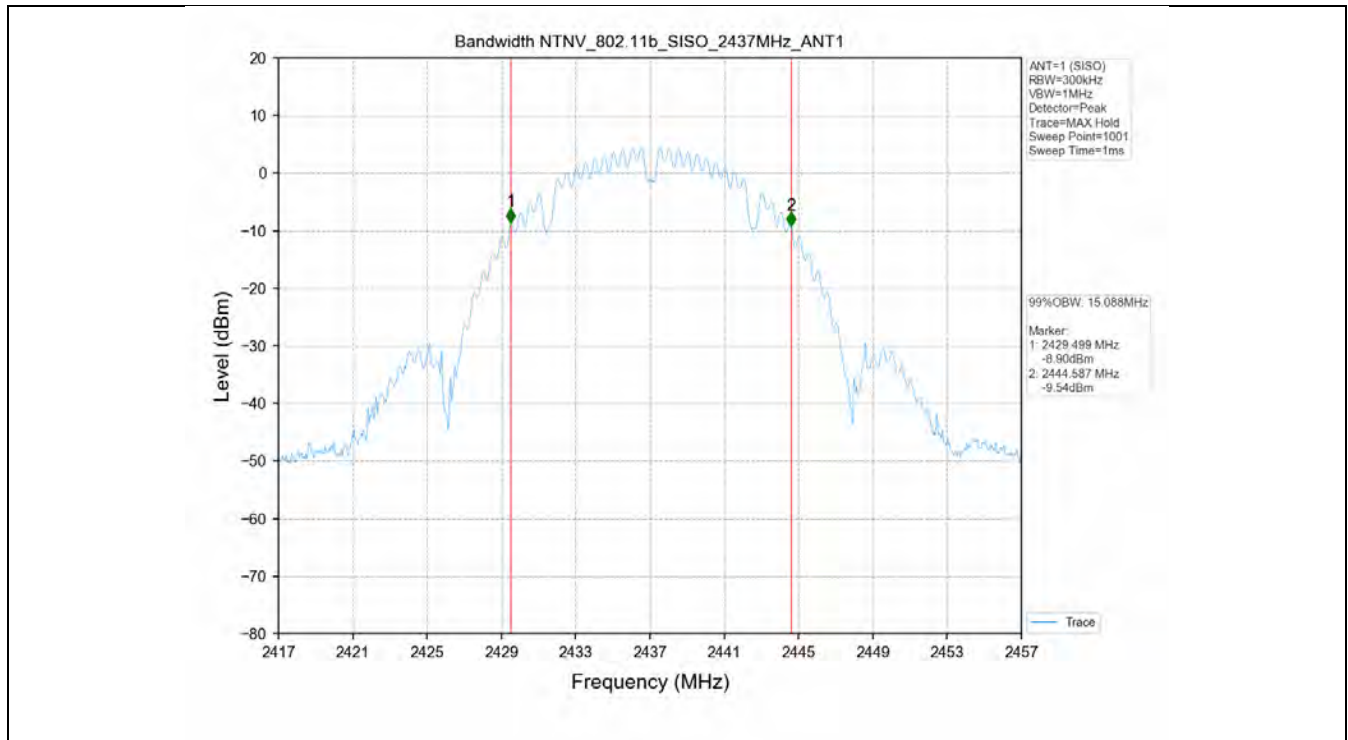


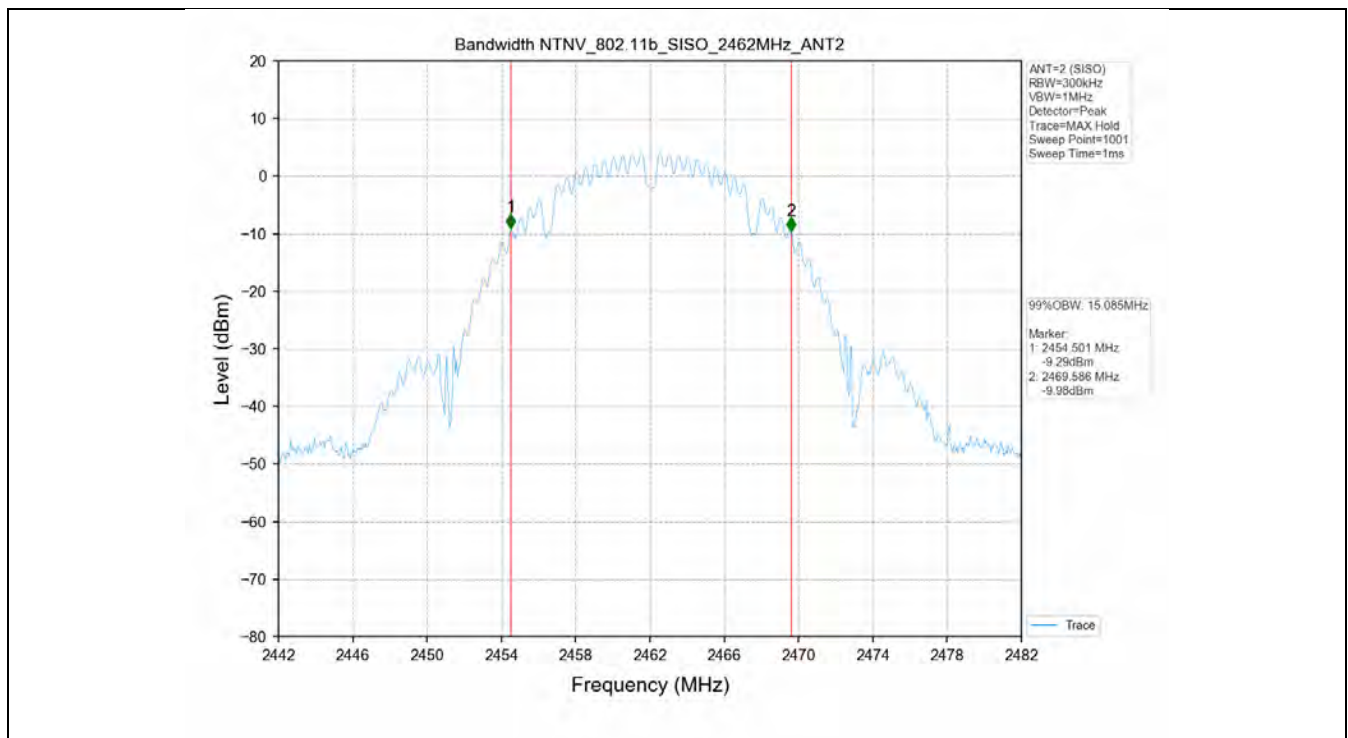
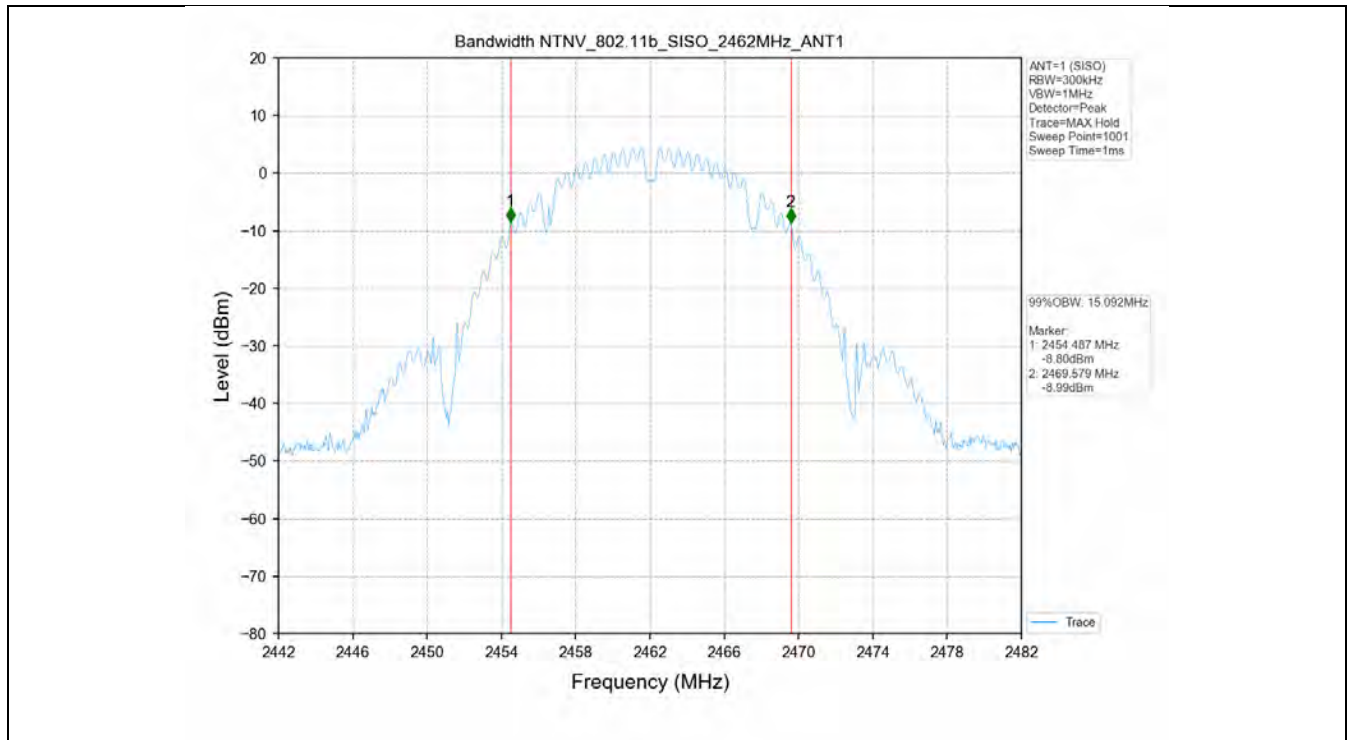


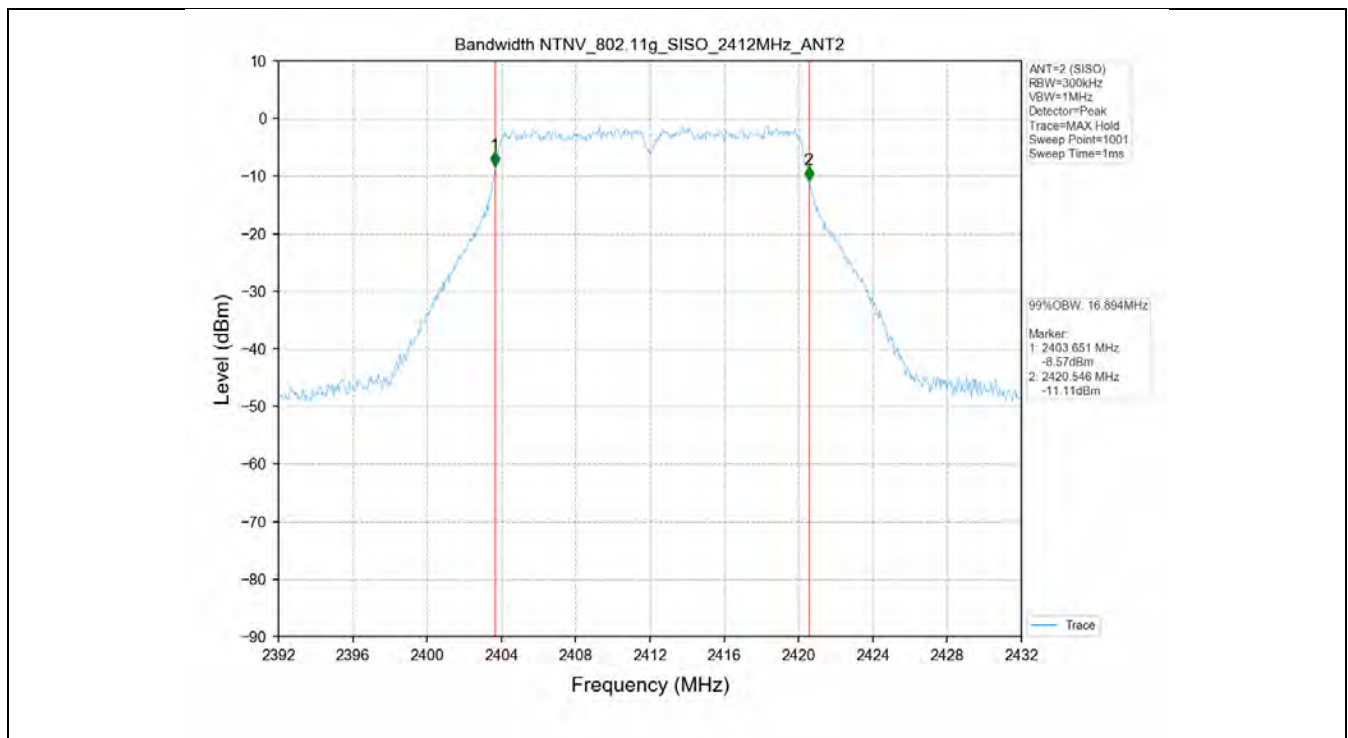
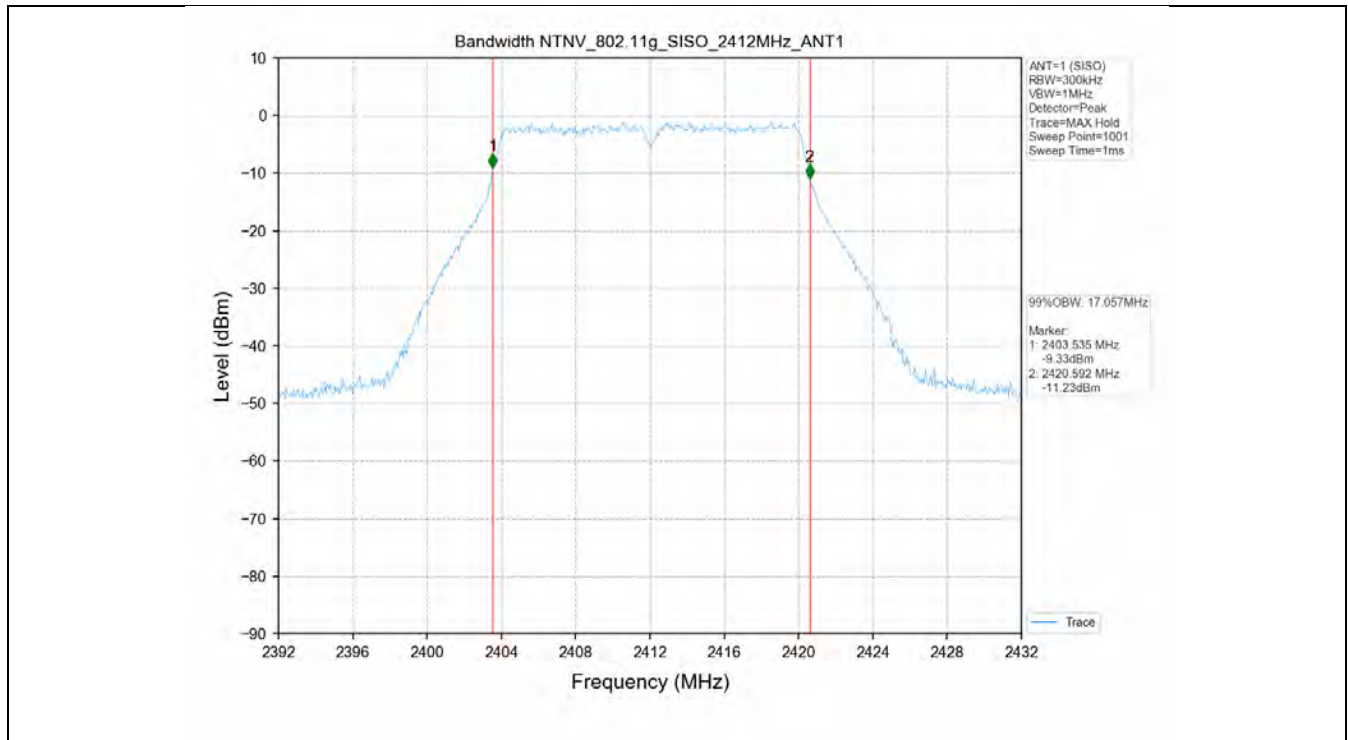


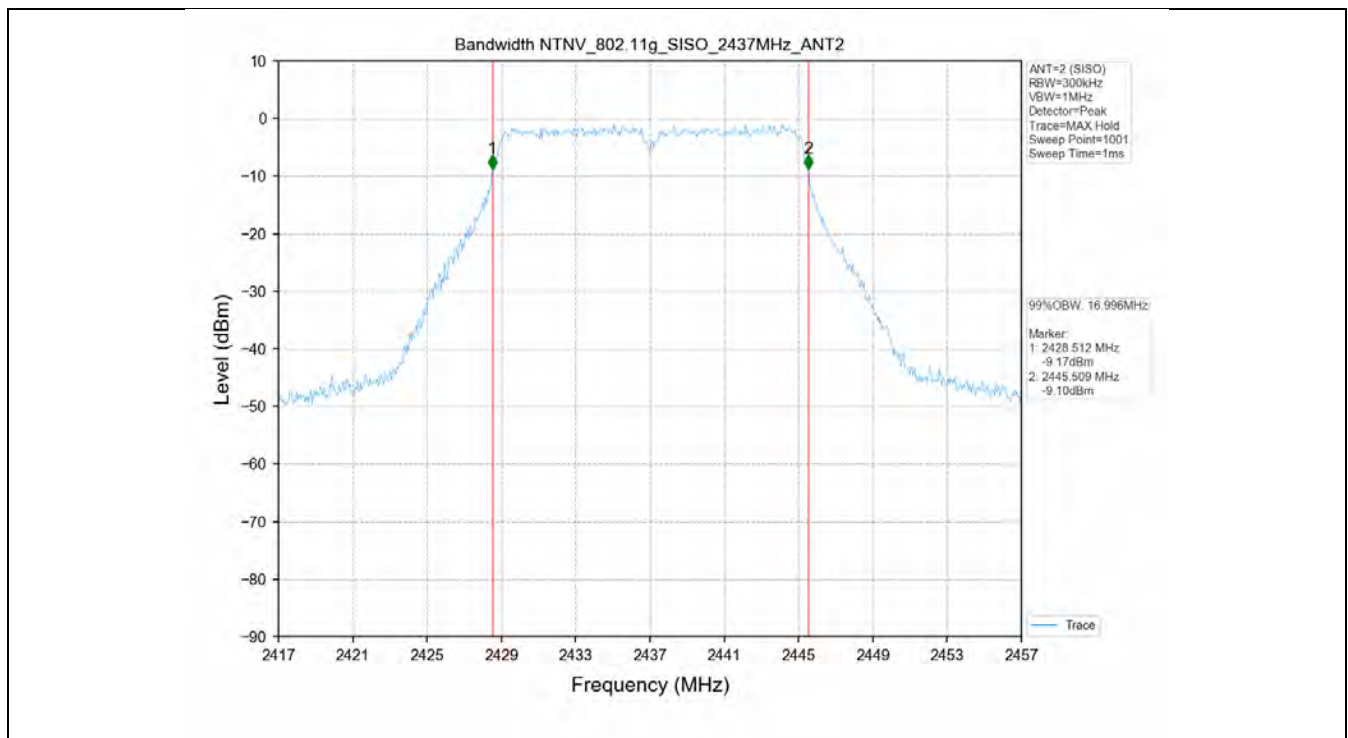
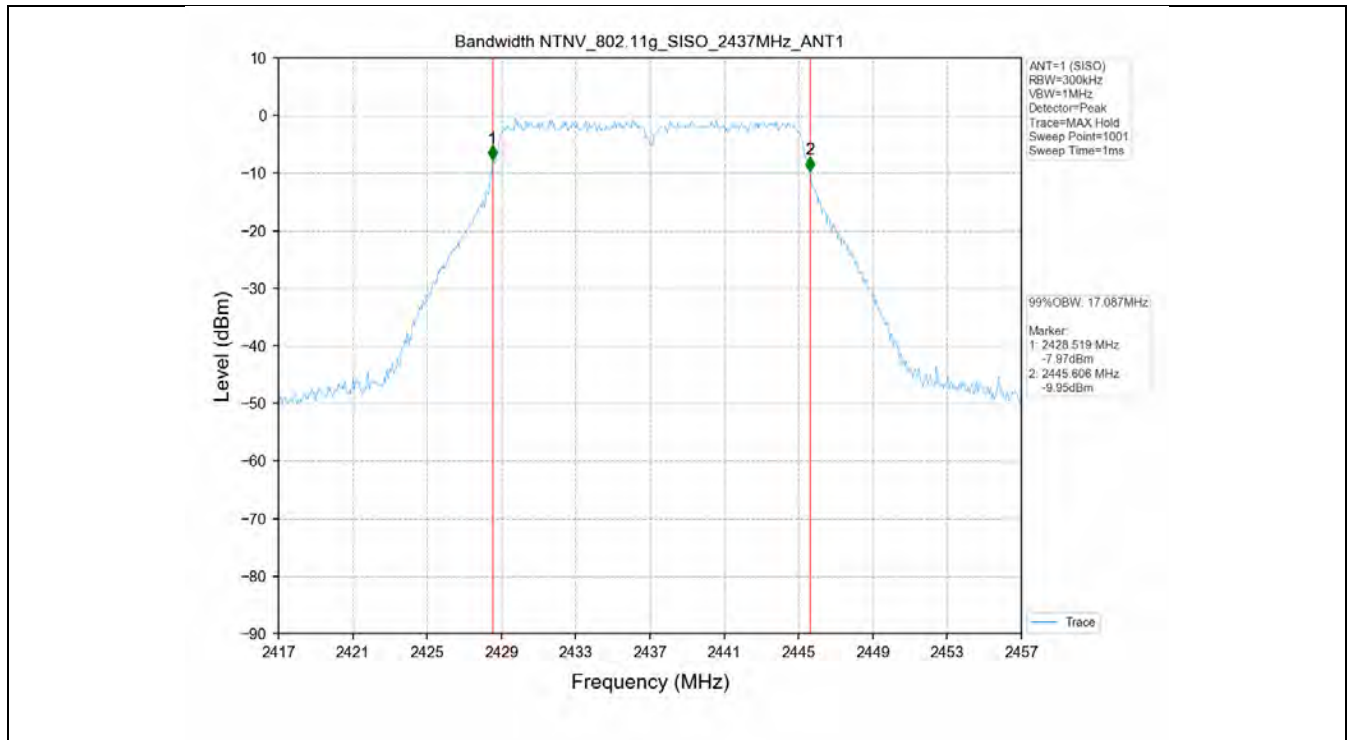
2.3 Test Graph - 99% Occupied Bandwidth

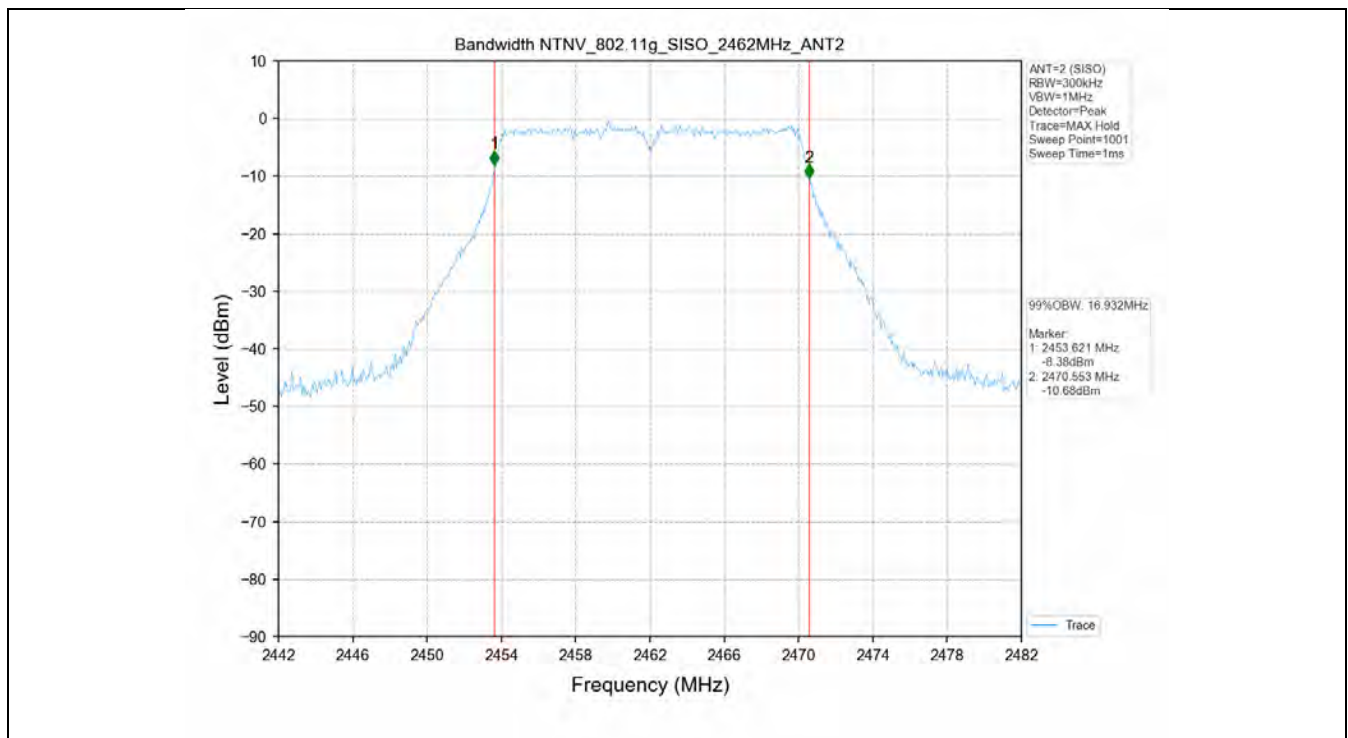
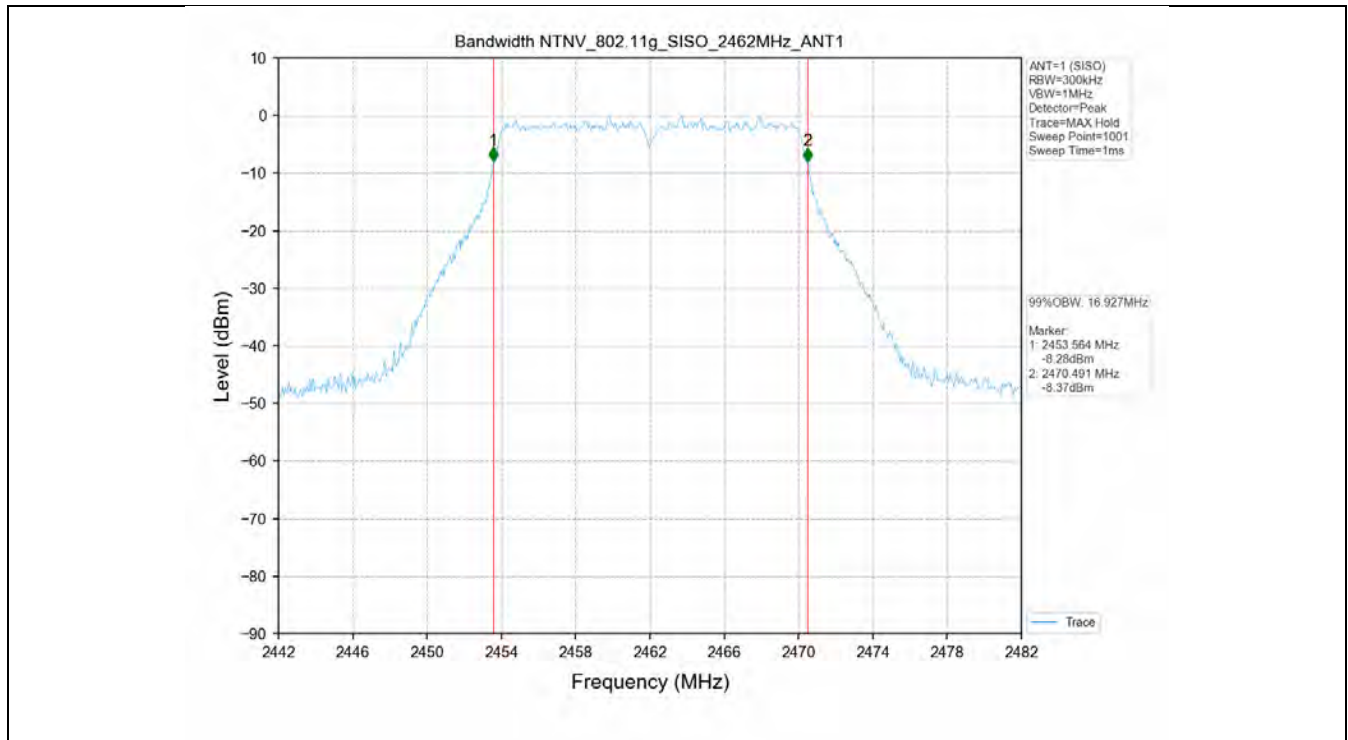


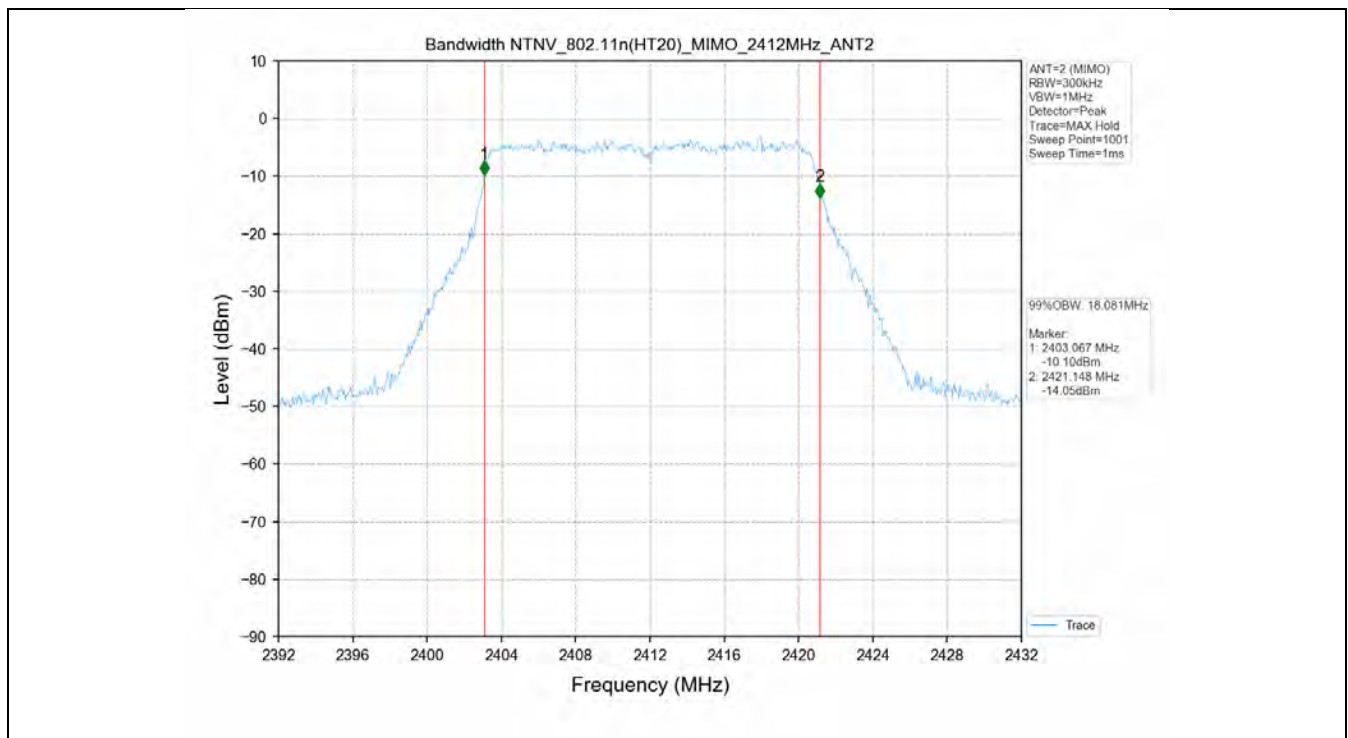
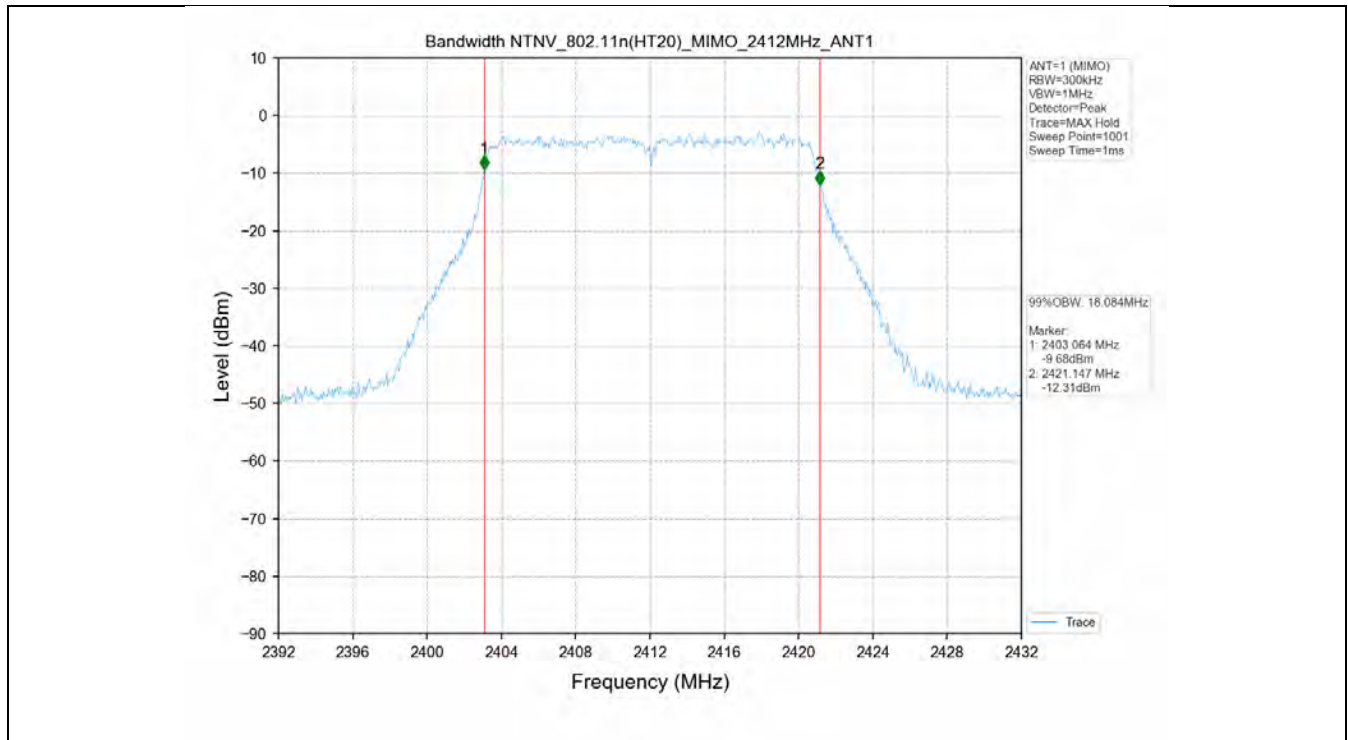


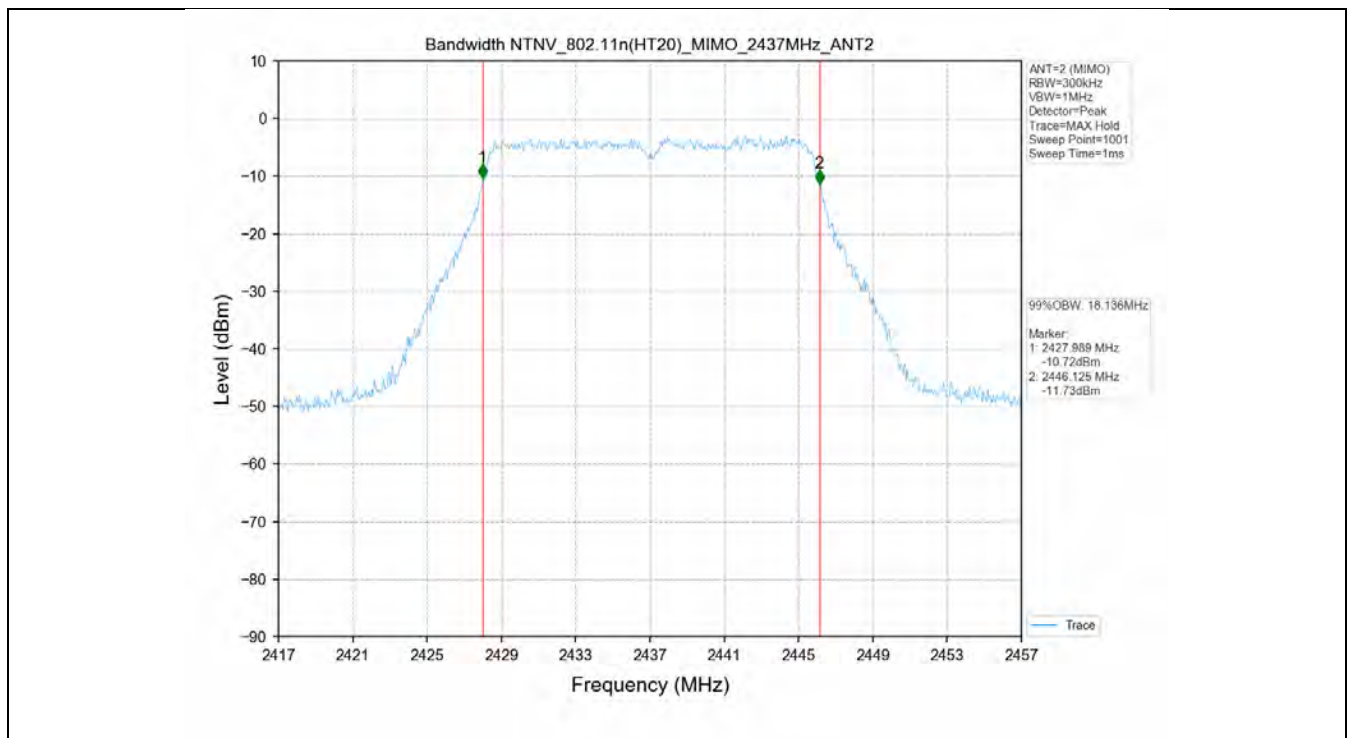
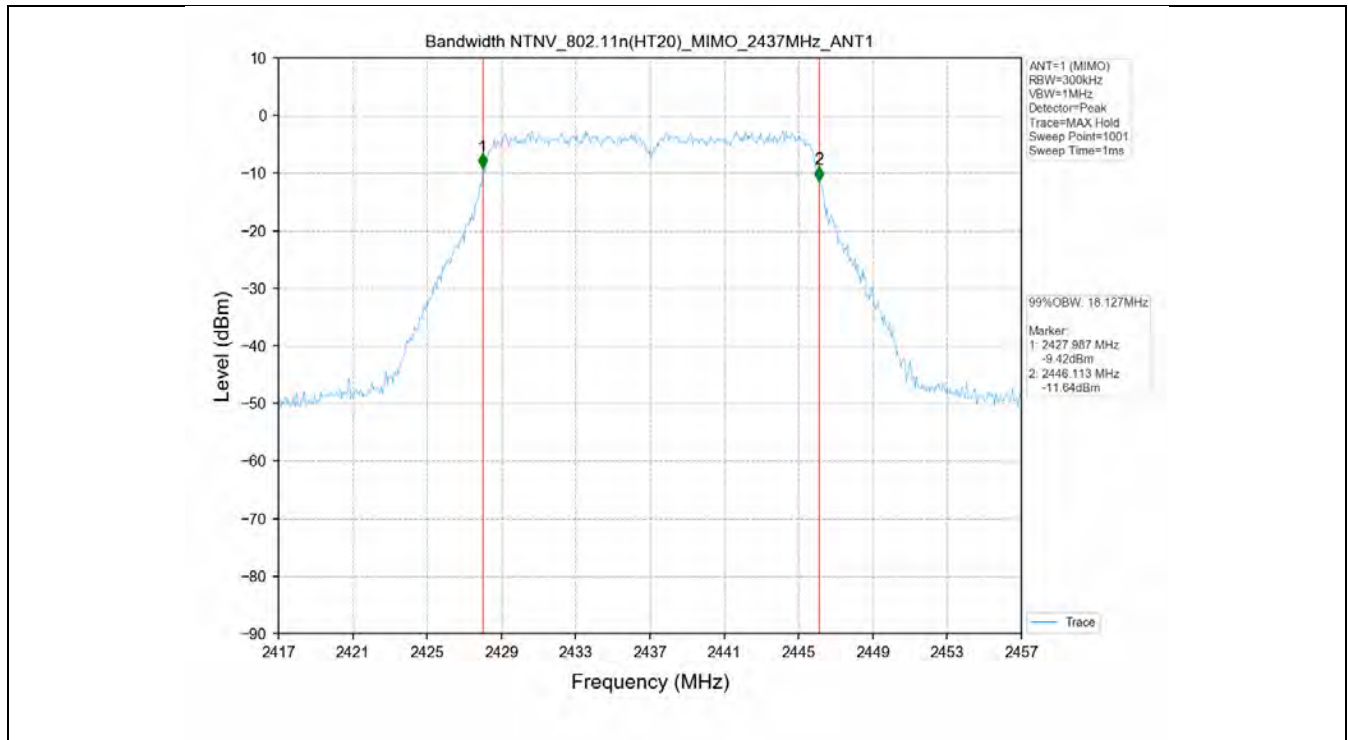


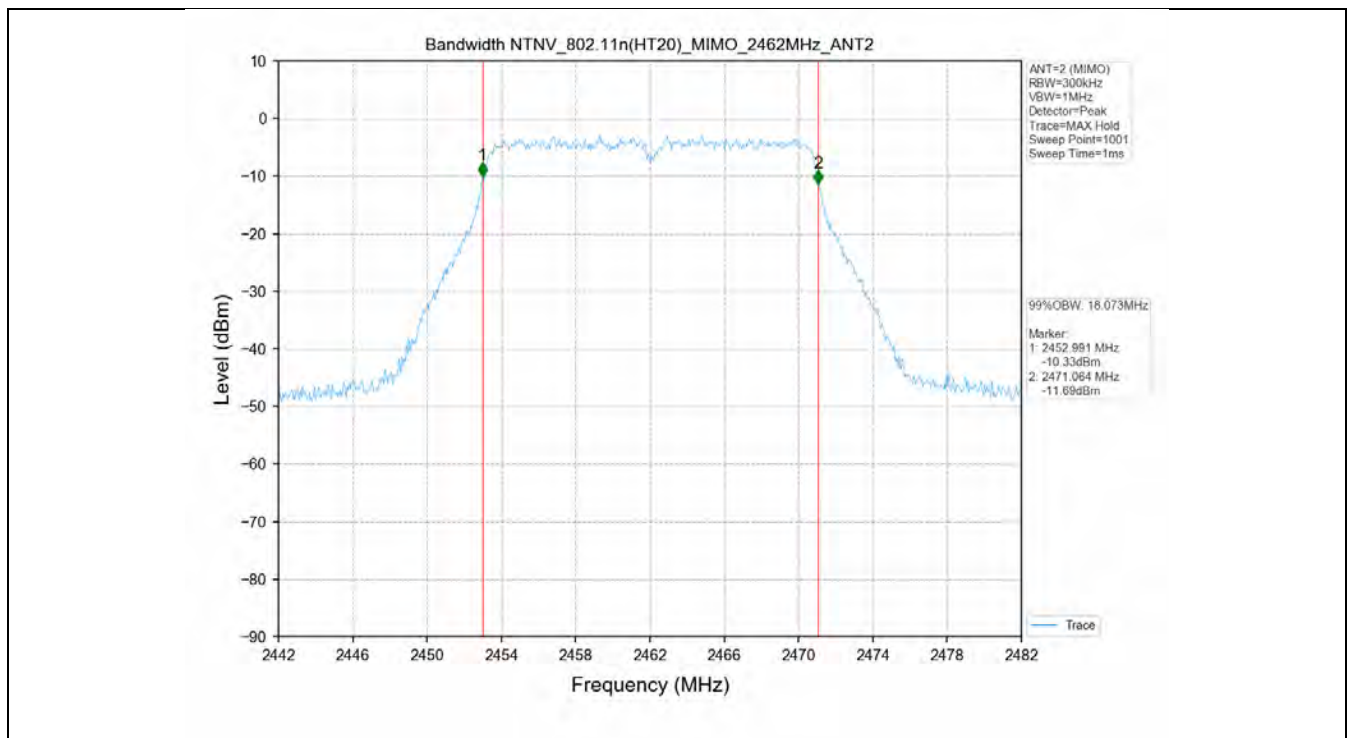
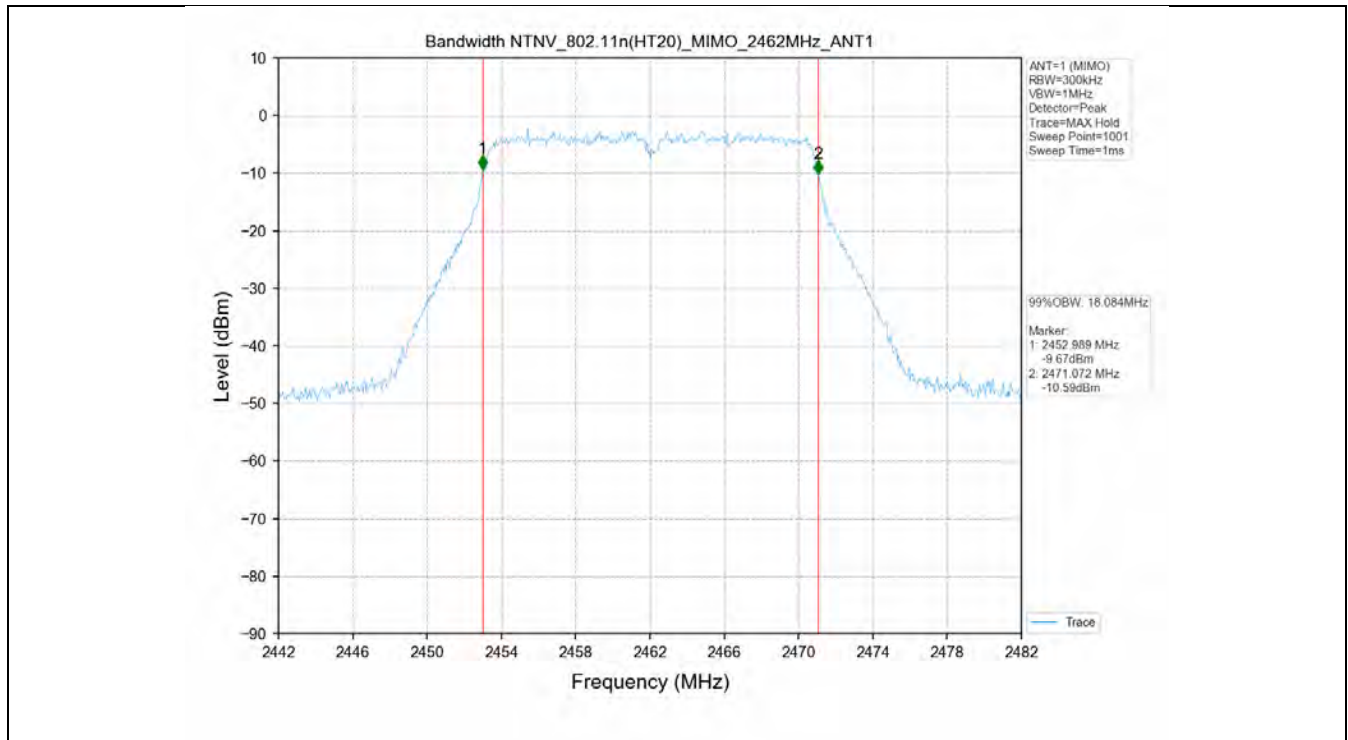


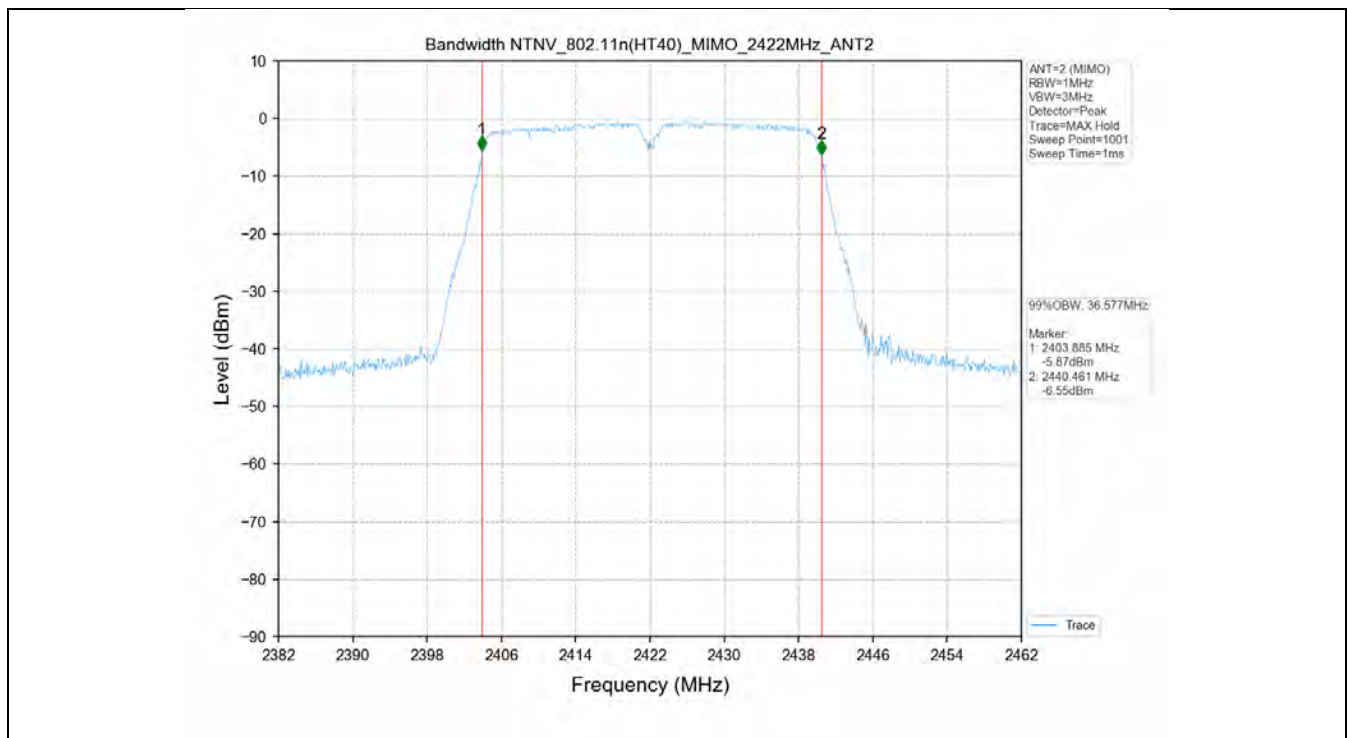
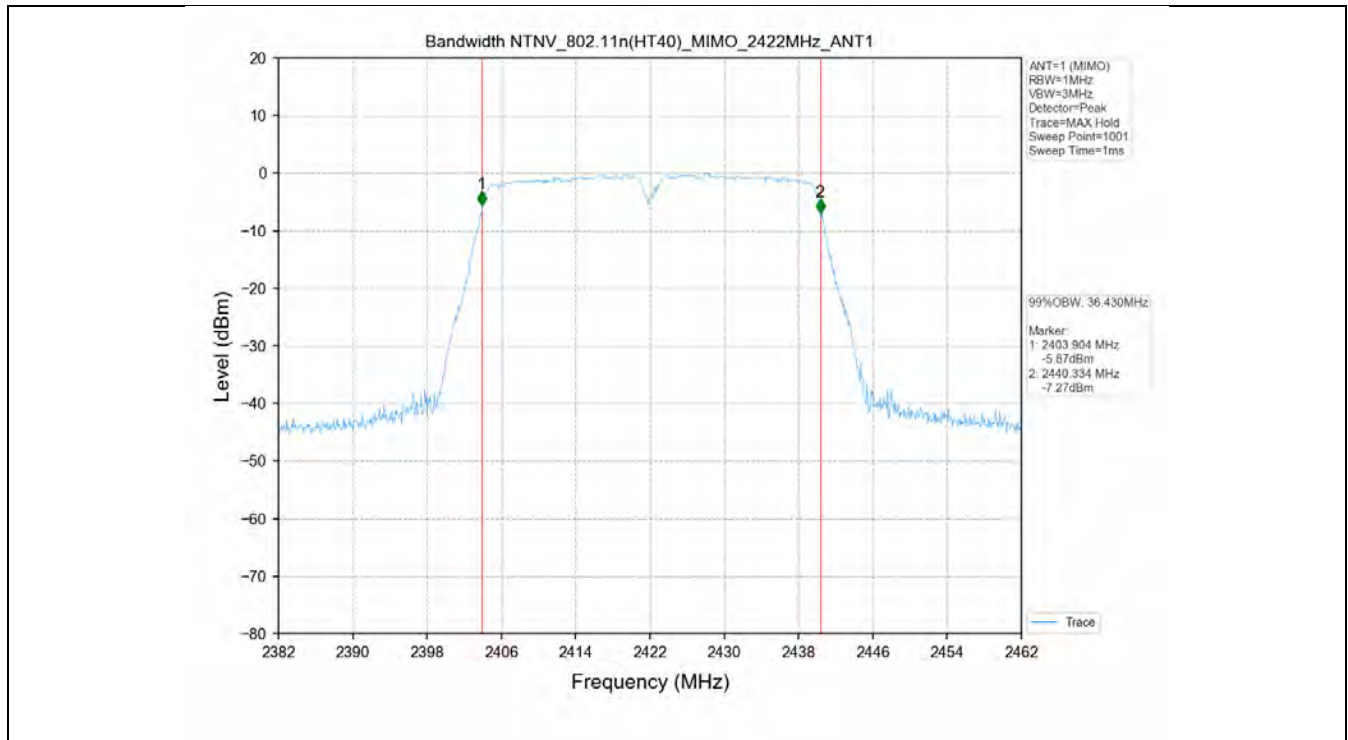


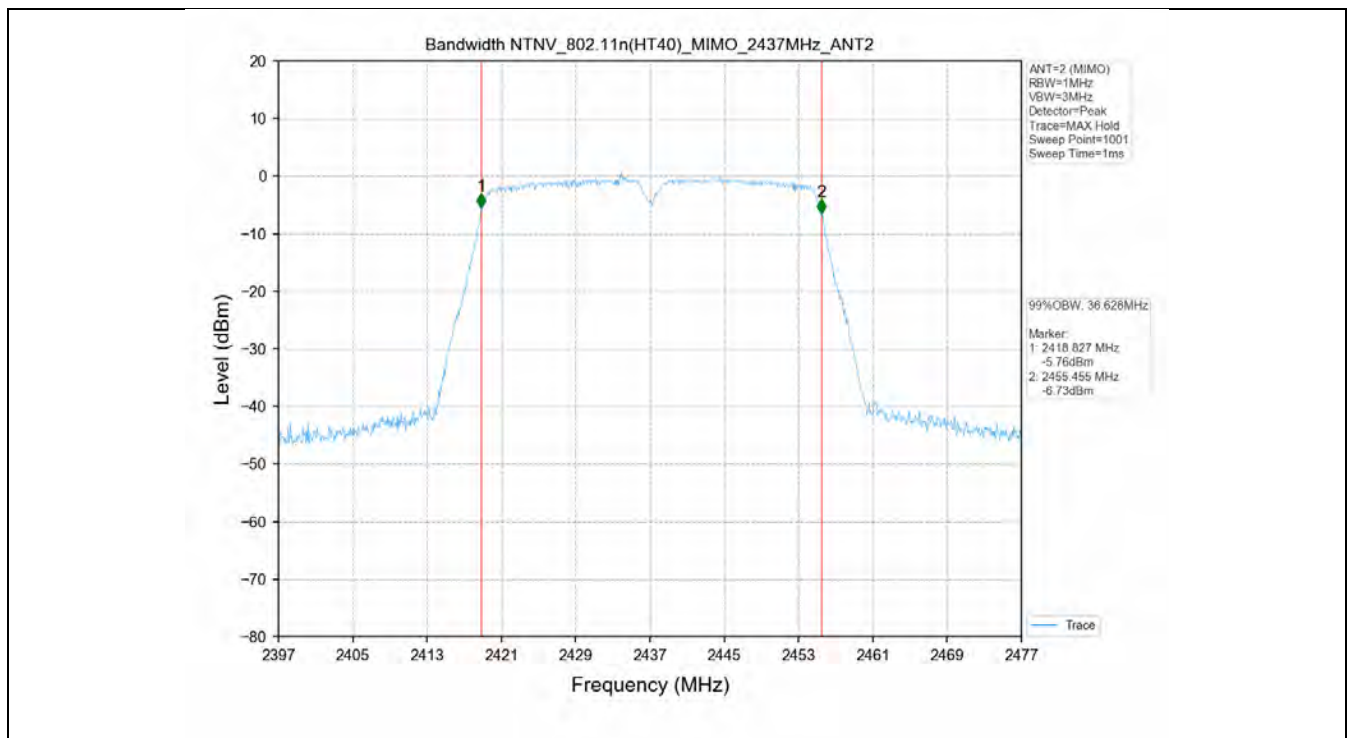
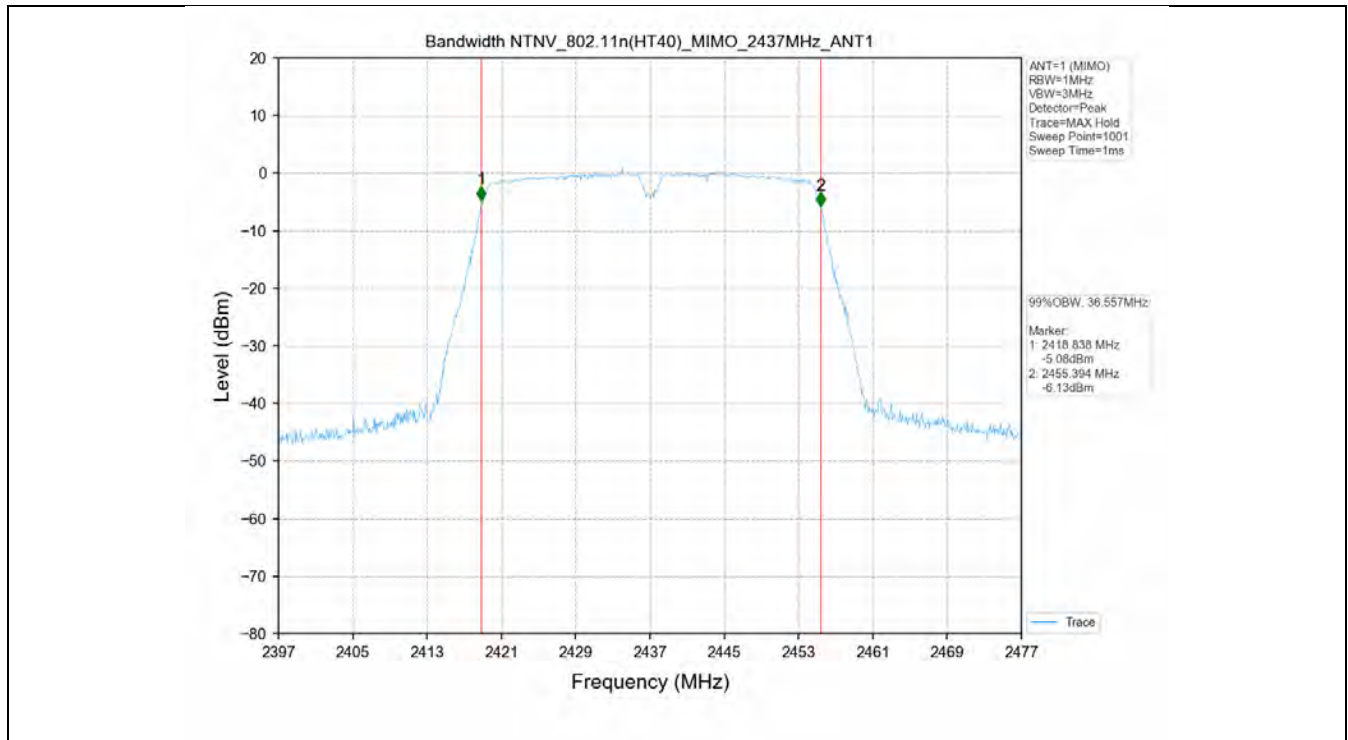


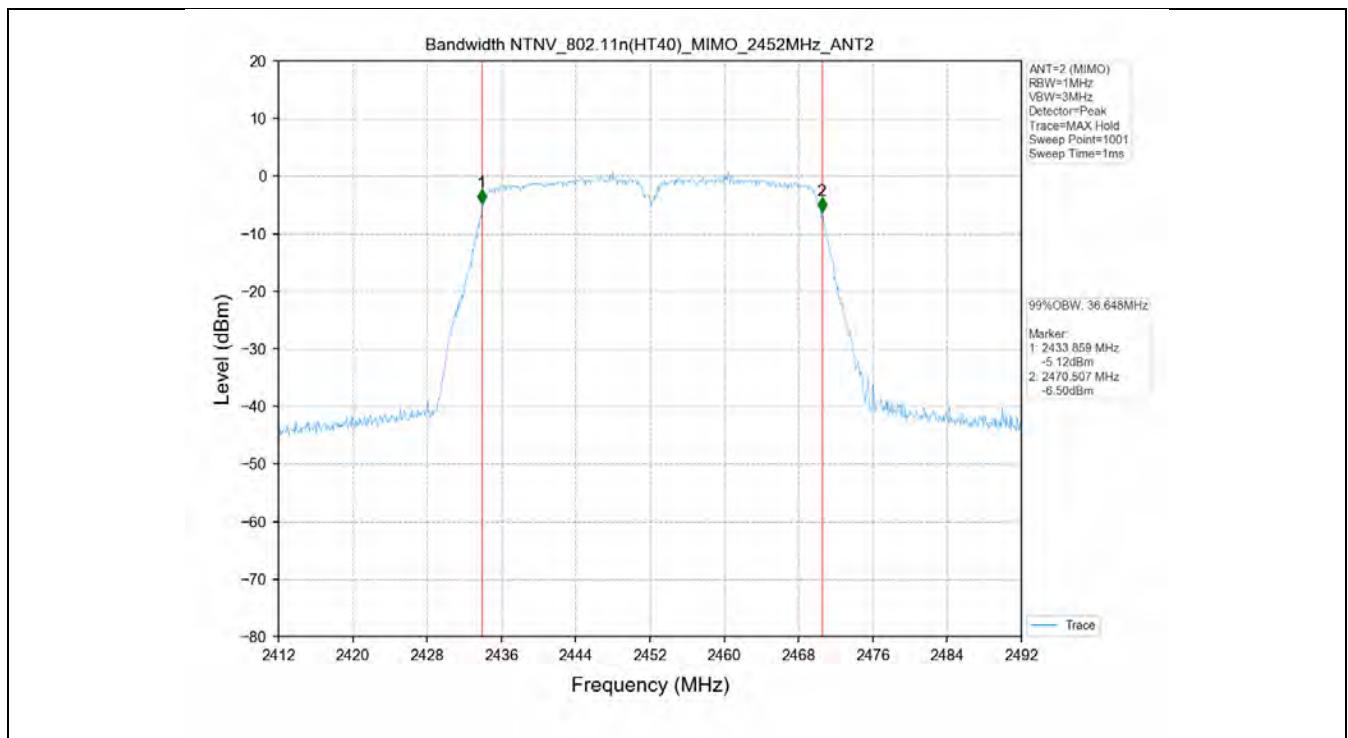
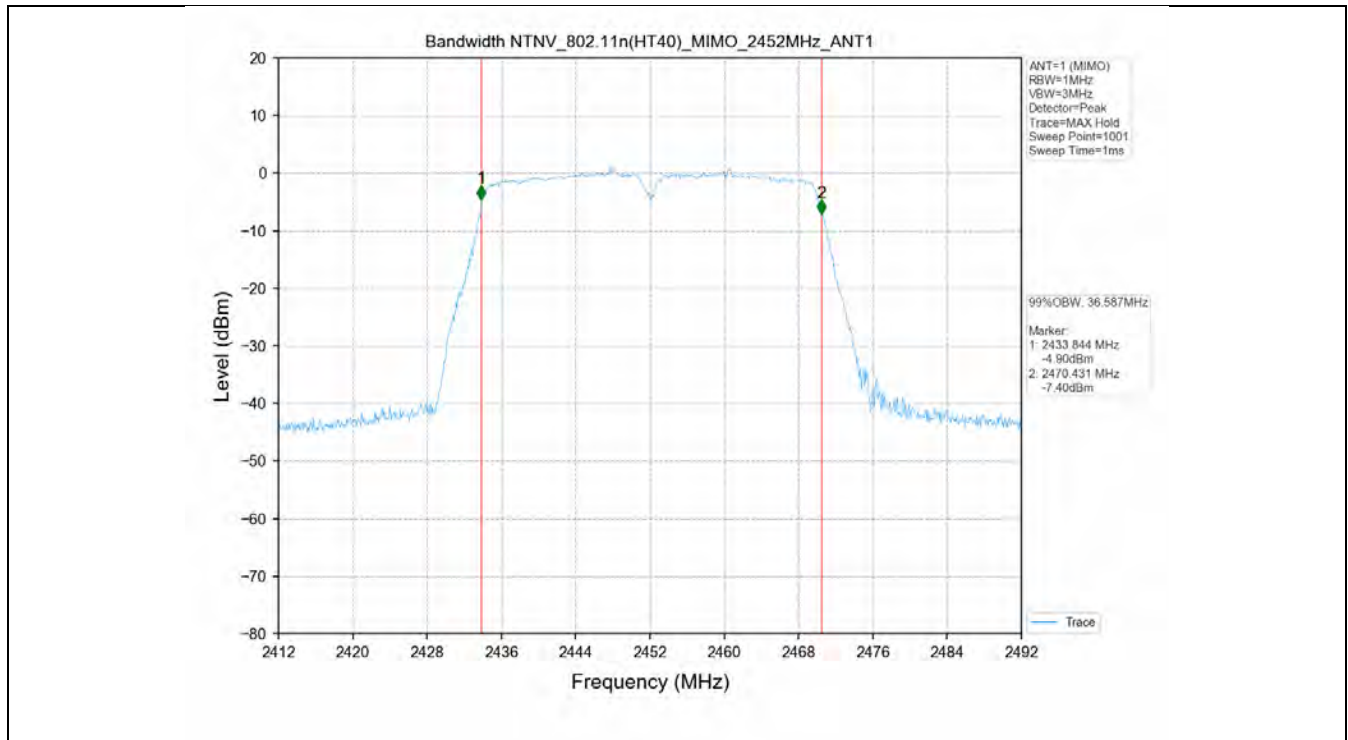












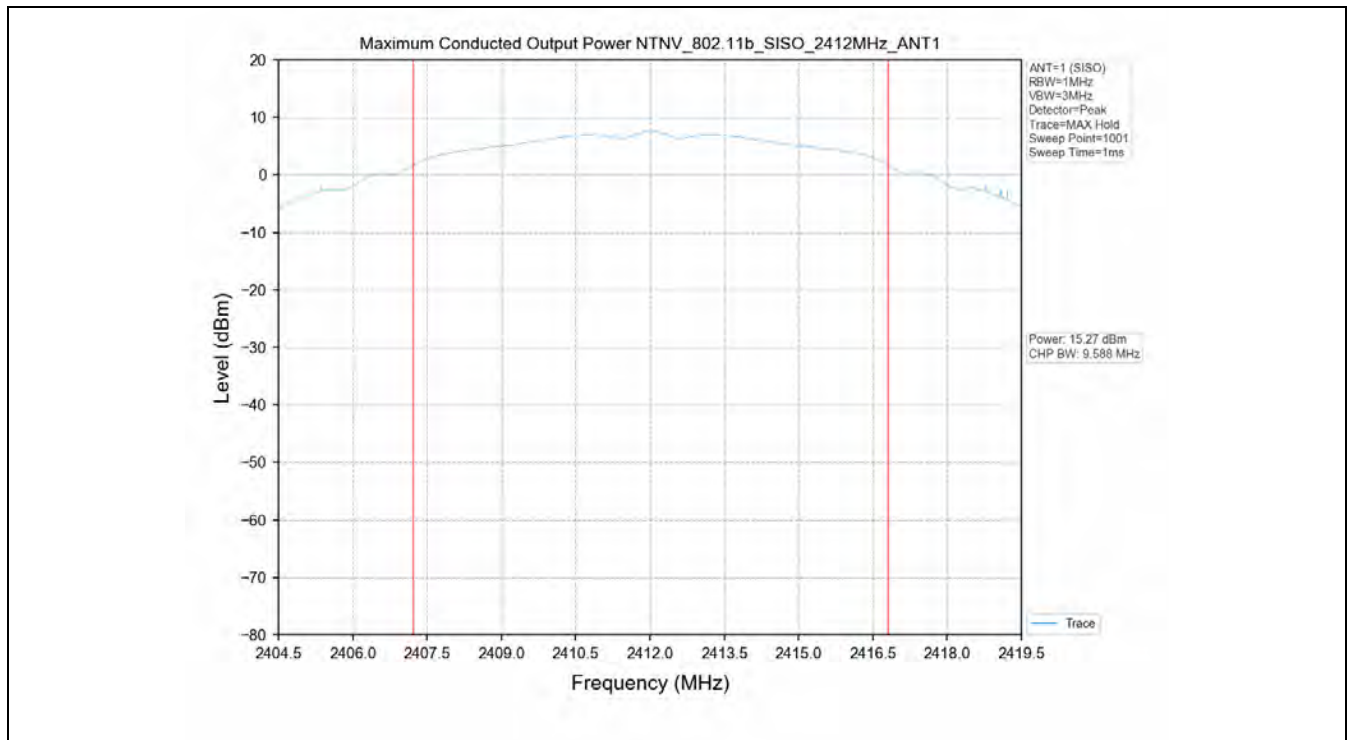


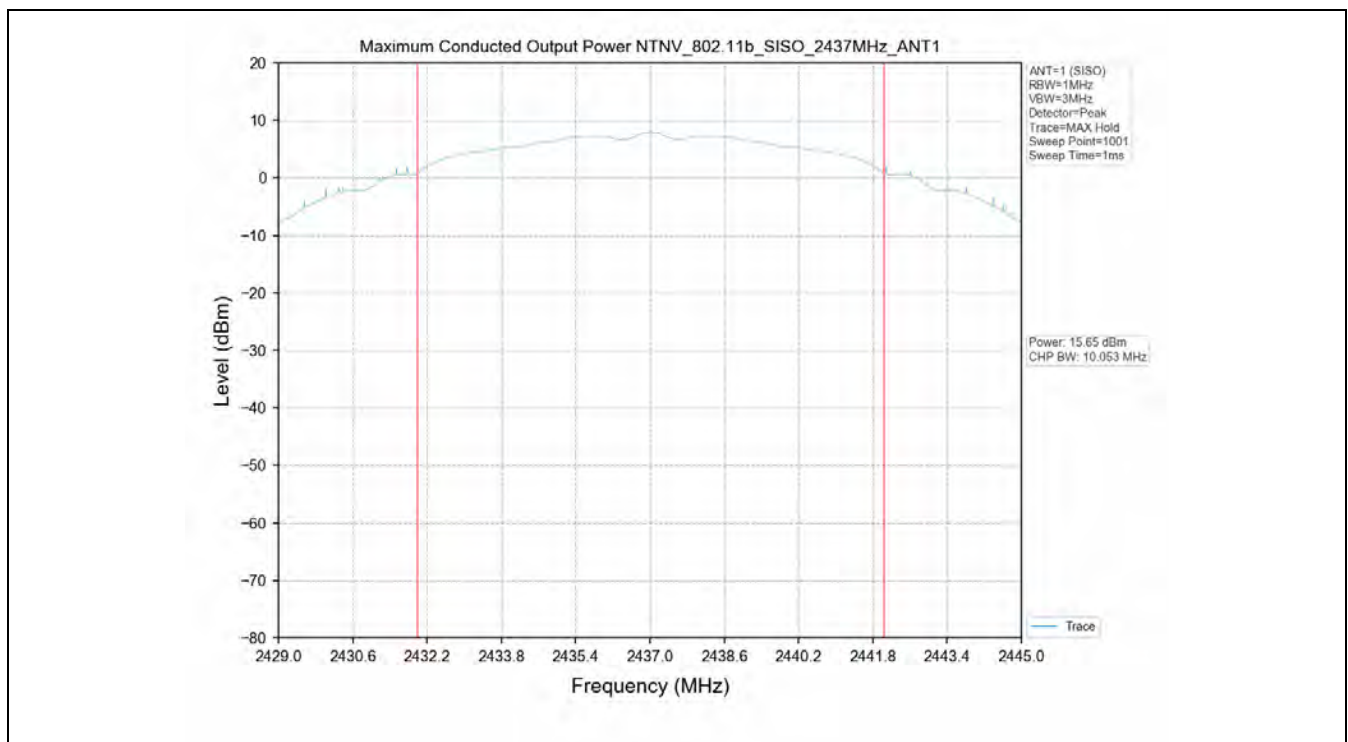
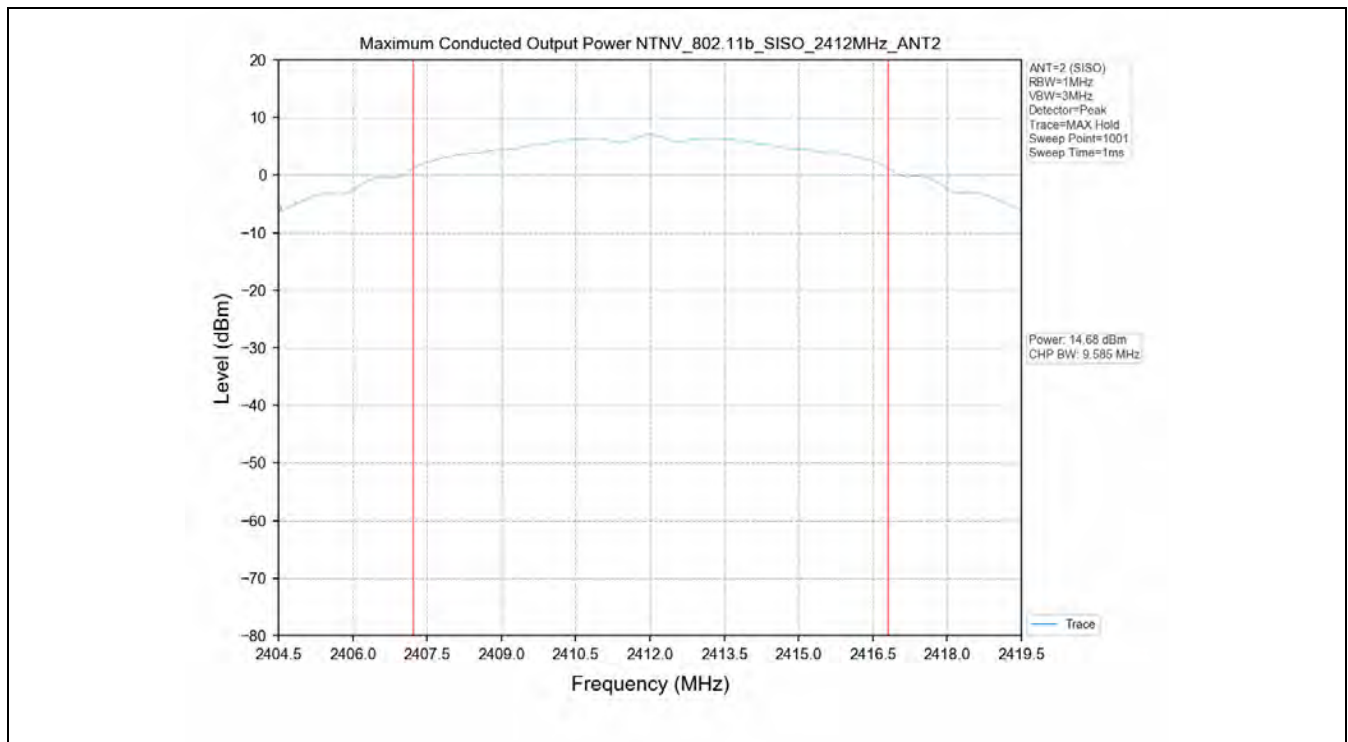
3. Maximum Conducted Output Power

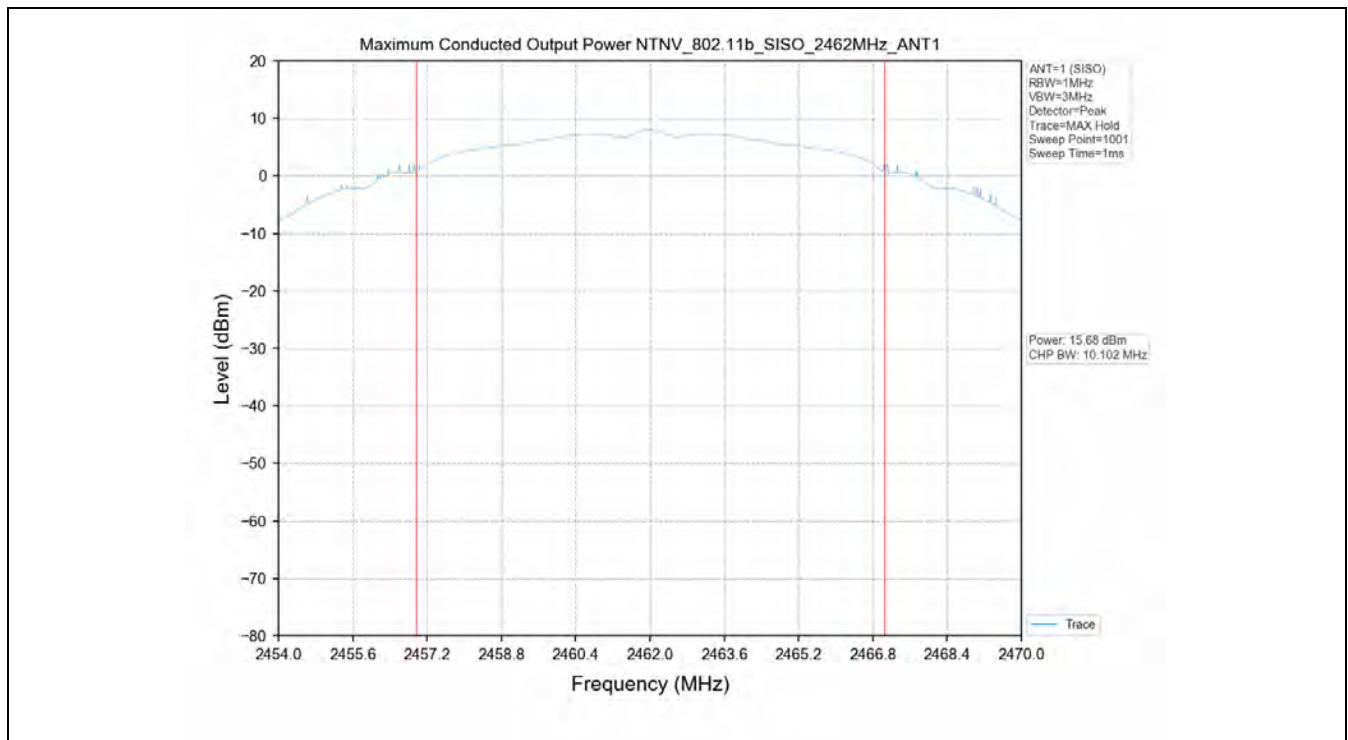
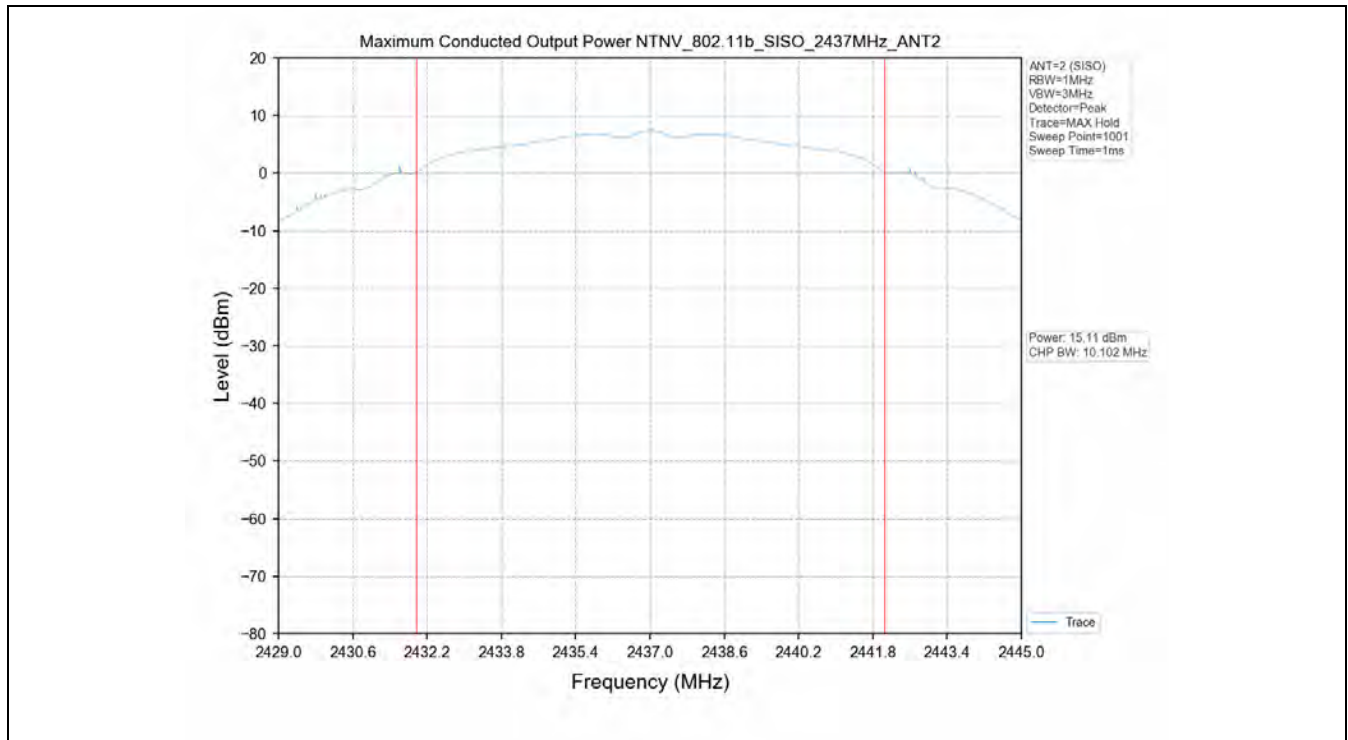
3.1 Test Result

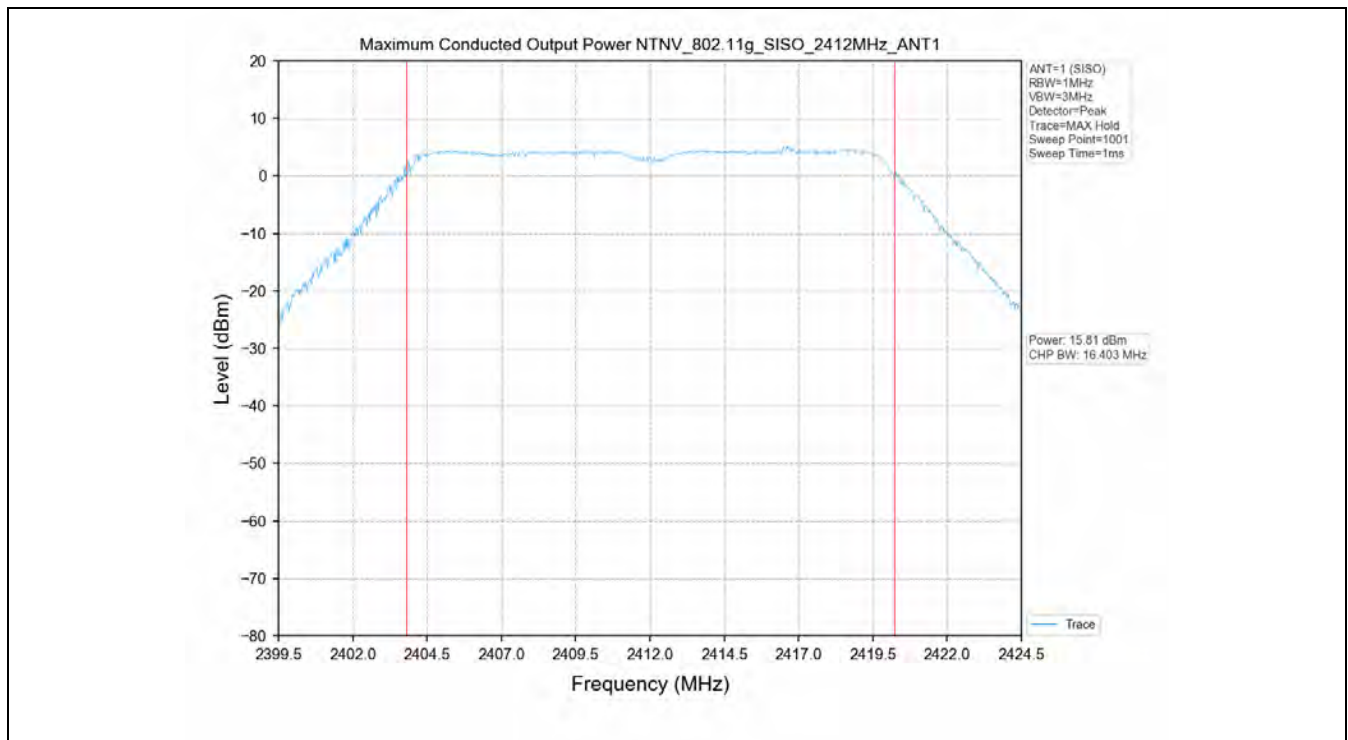
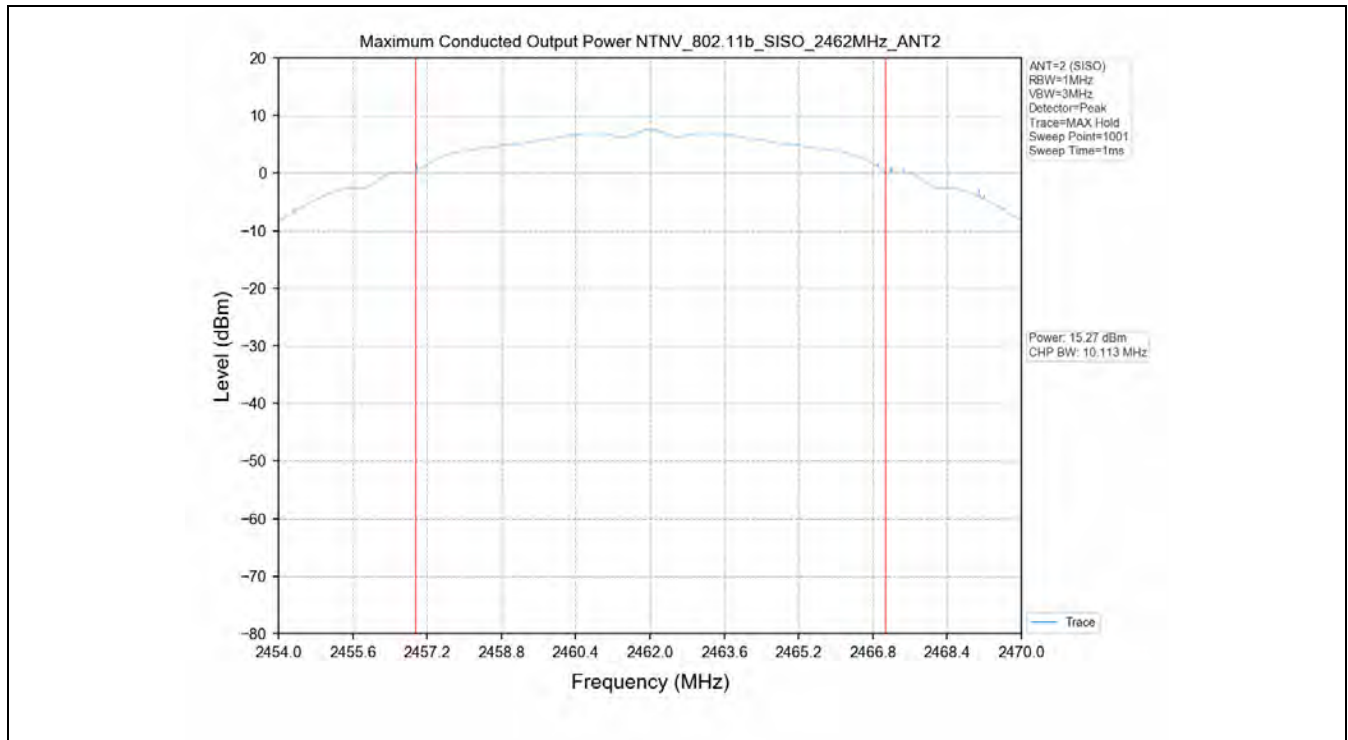
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	15.27	14.68	/	30	PASS
	2437	SISO	15.65	15.11	/	30	PASS
	2462	SISO	15.68	15.27	/	30	PASS
802.11g	2412	SISO	15.81	15.33	/	30	PASS
	2437	SISO	16.21	15.75	/	30	PASS
	2462	SISO	16.24	15.97	/	30	PASS
802.11n(HT20)	2412	MIMO	13.89	13.52	16.72	30	PASS
	2437	MIMO	14.26	13.92	17.10	30	PASS
	2462	MIMO	14.24	14.00	17.13	30	PASS
802.11n(HT40)	2422	MIMO	14.10	13.66	16.90	30	PASS
	2437	MIMO	14.39	14.05	17.23	30	PASS
	2452	MIMO	14.33	13.98	17.17	30	PASS

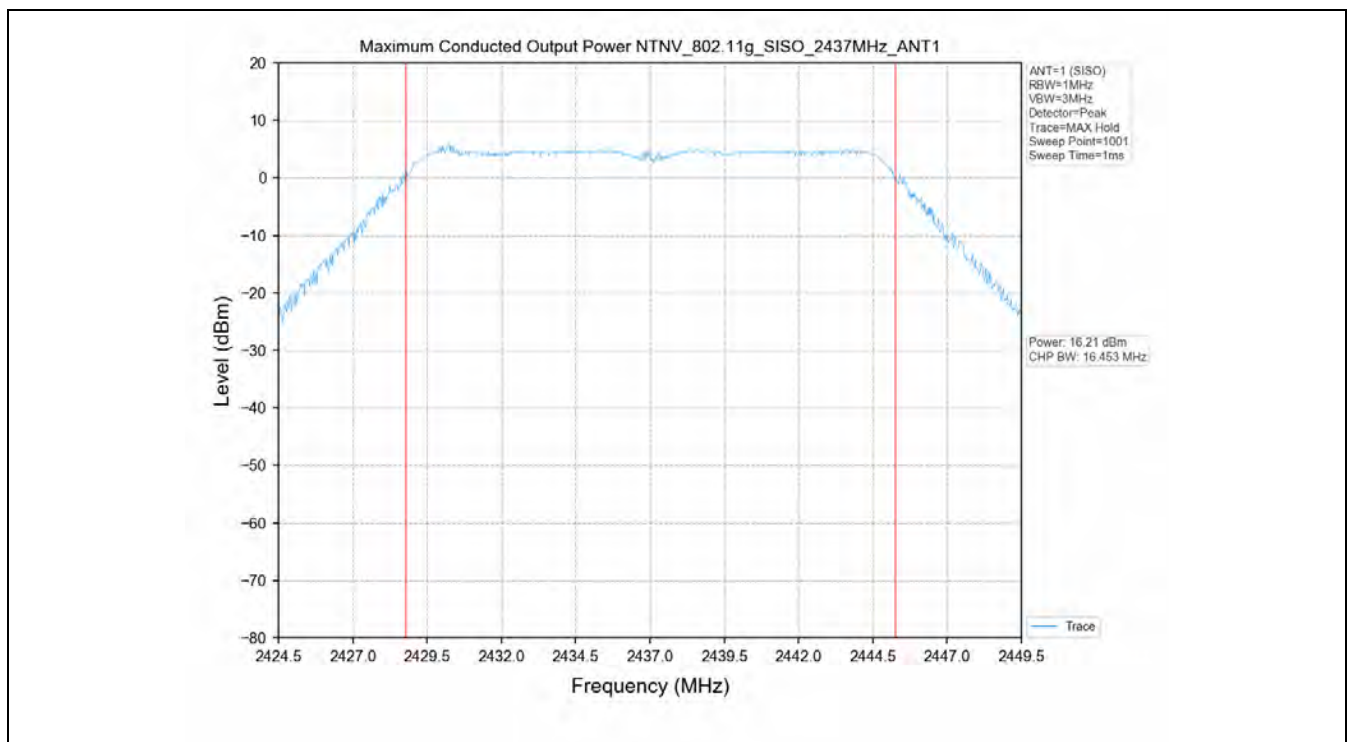
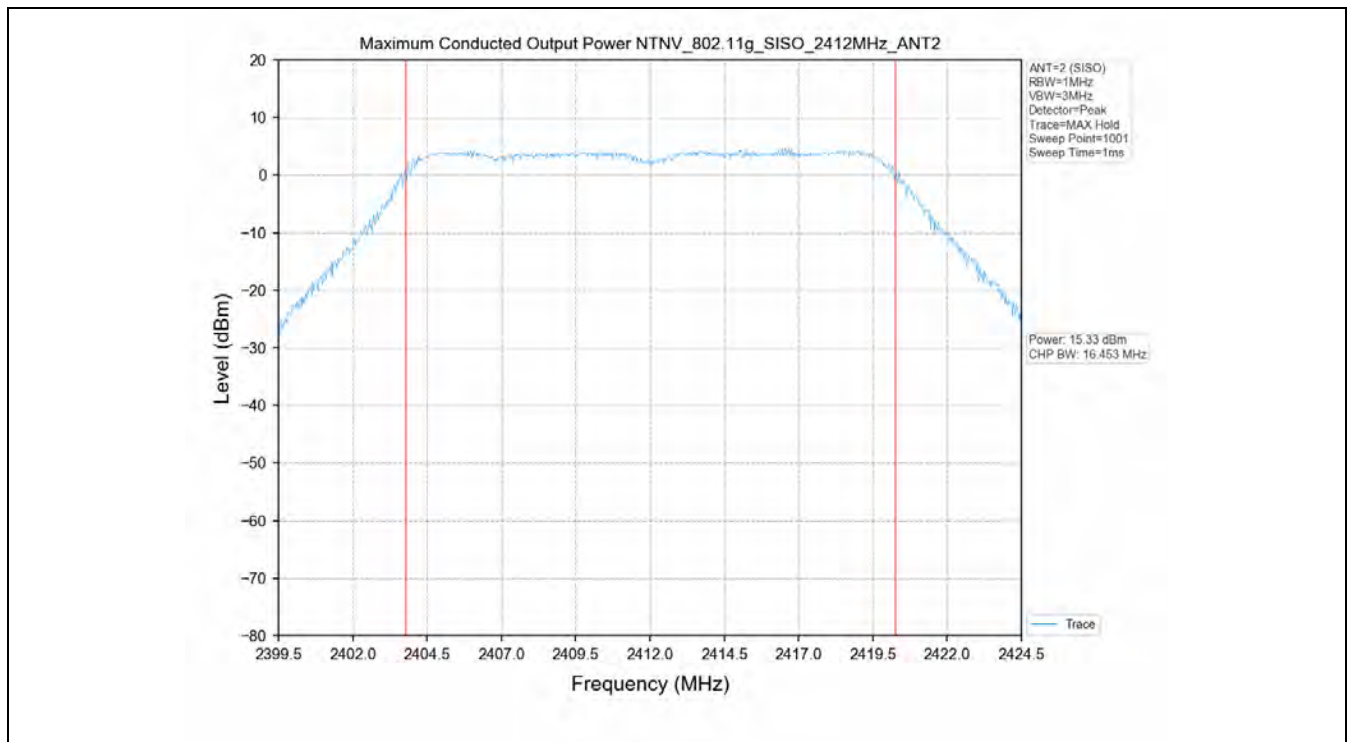
3.2 Test Graph

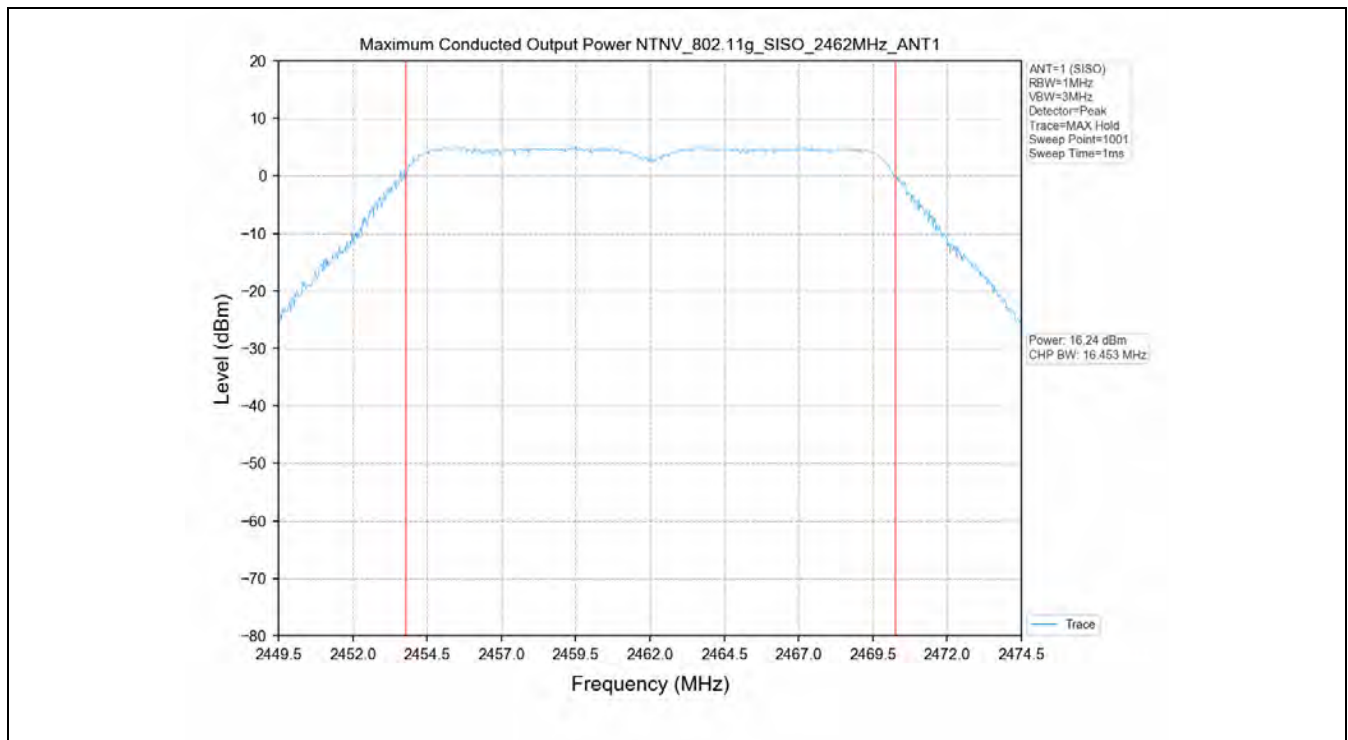
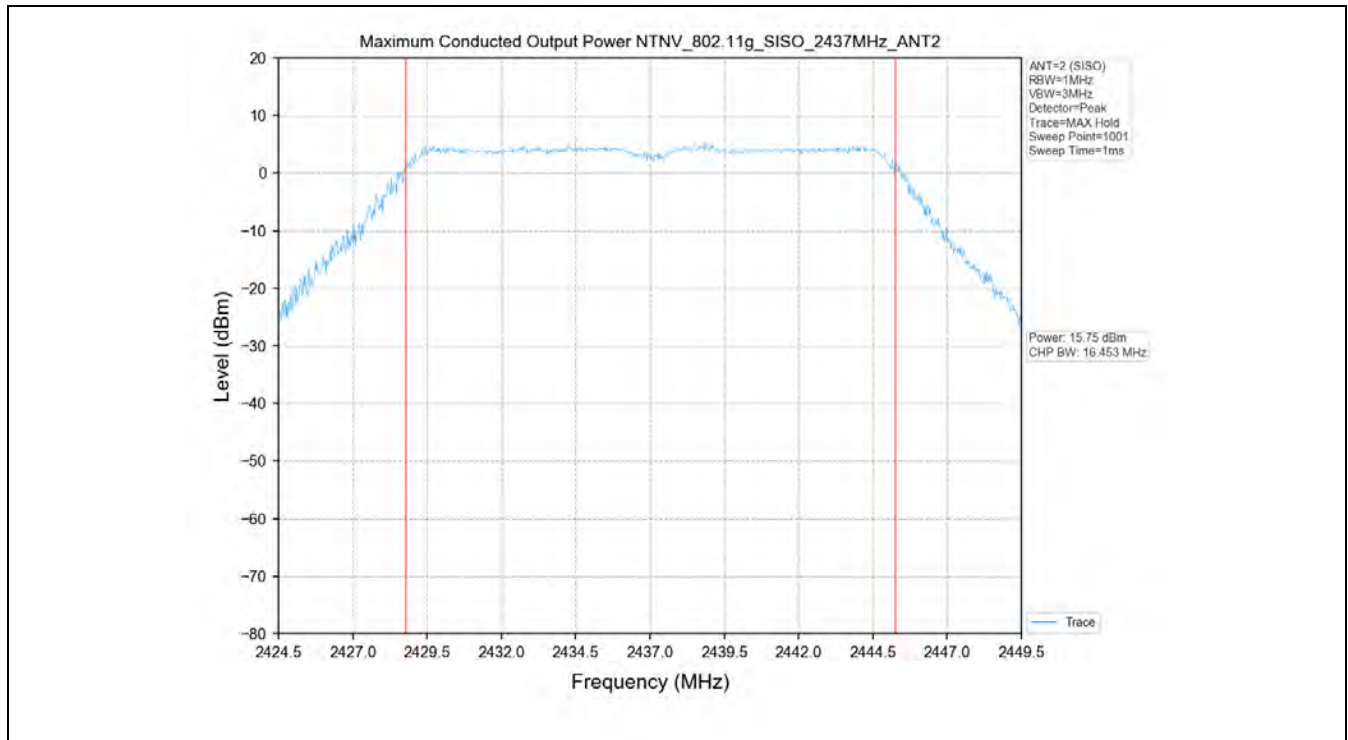


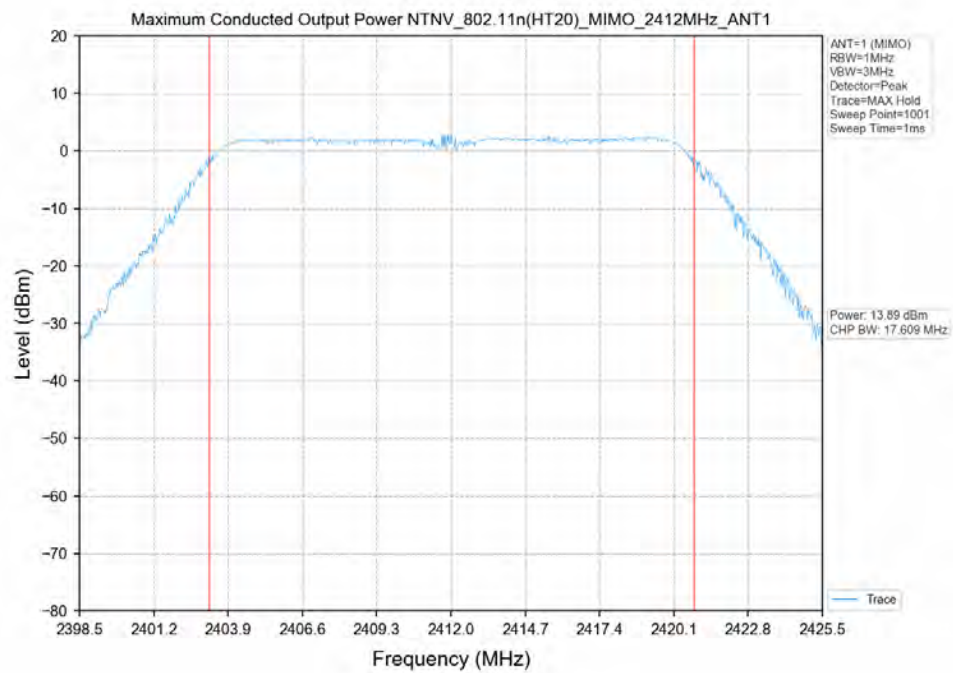
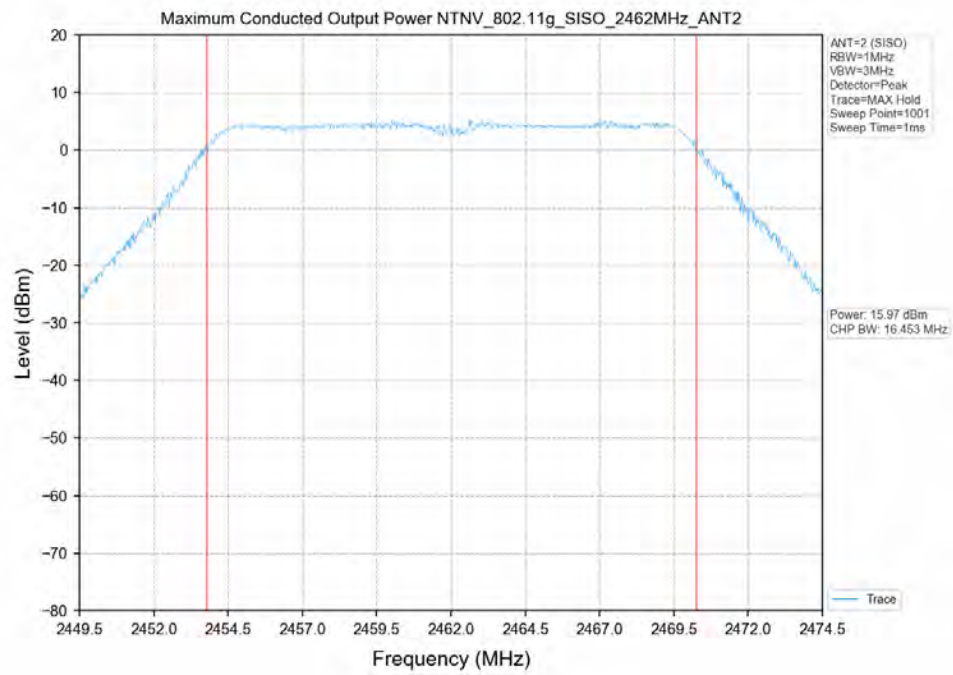


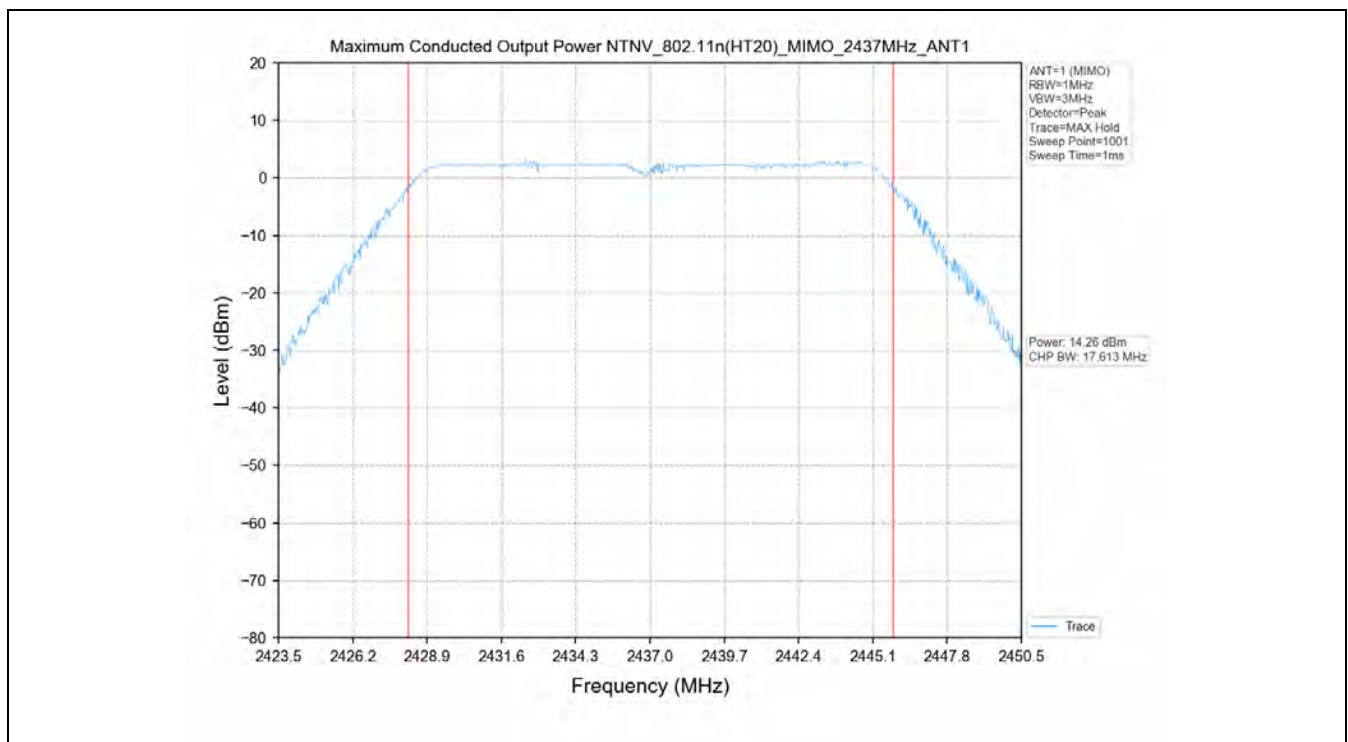
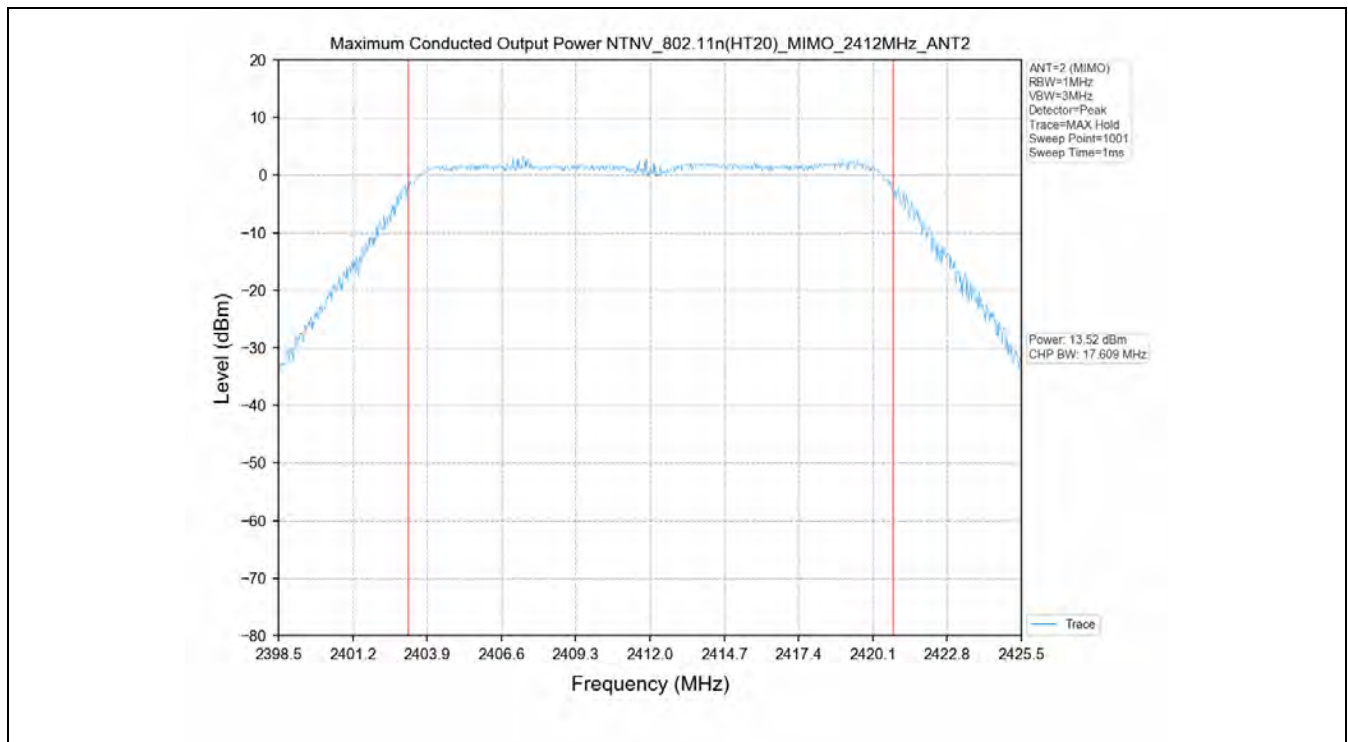


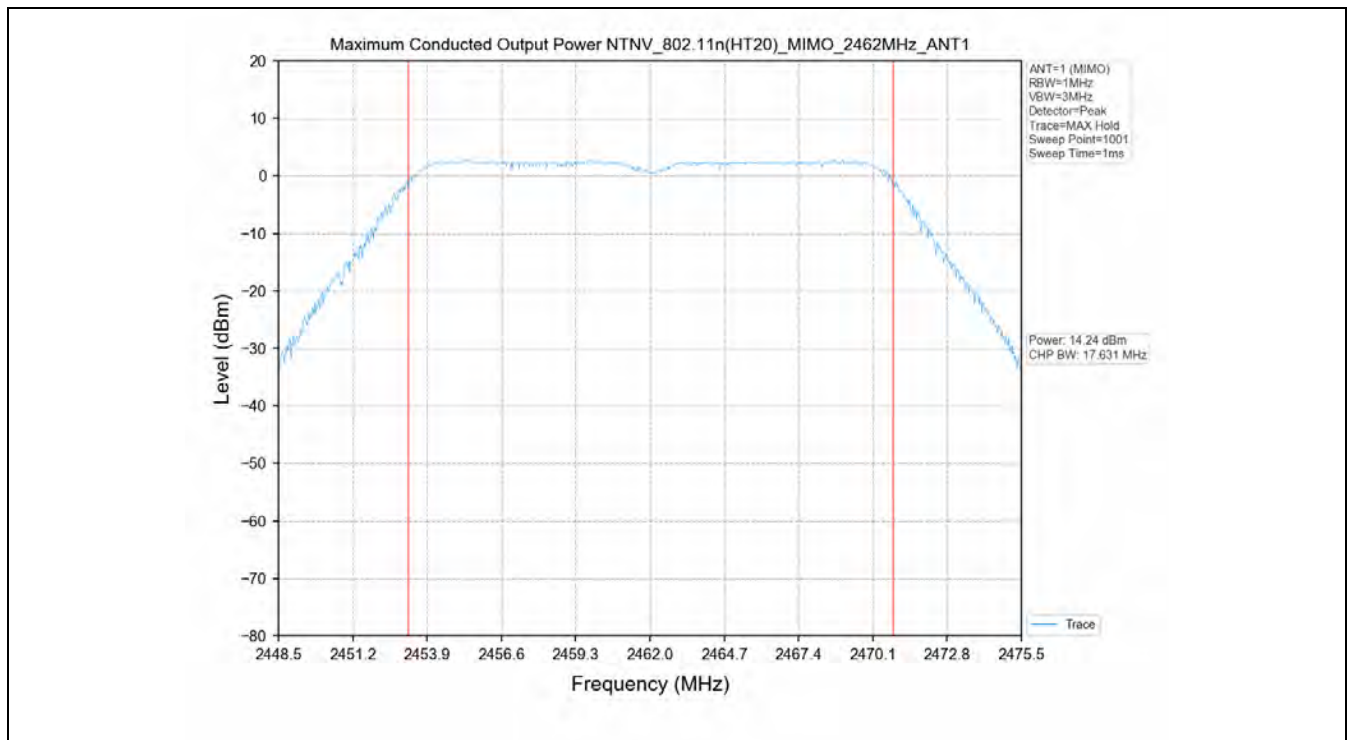
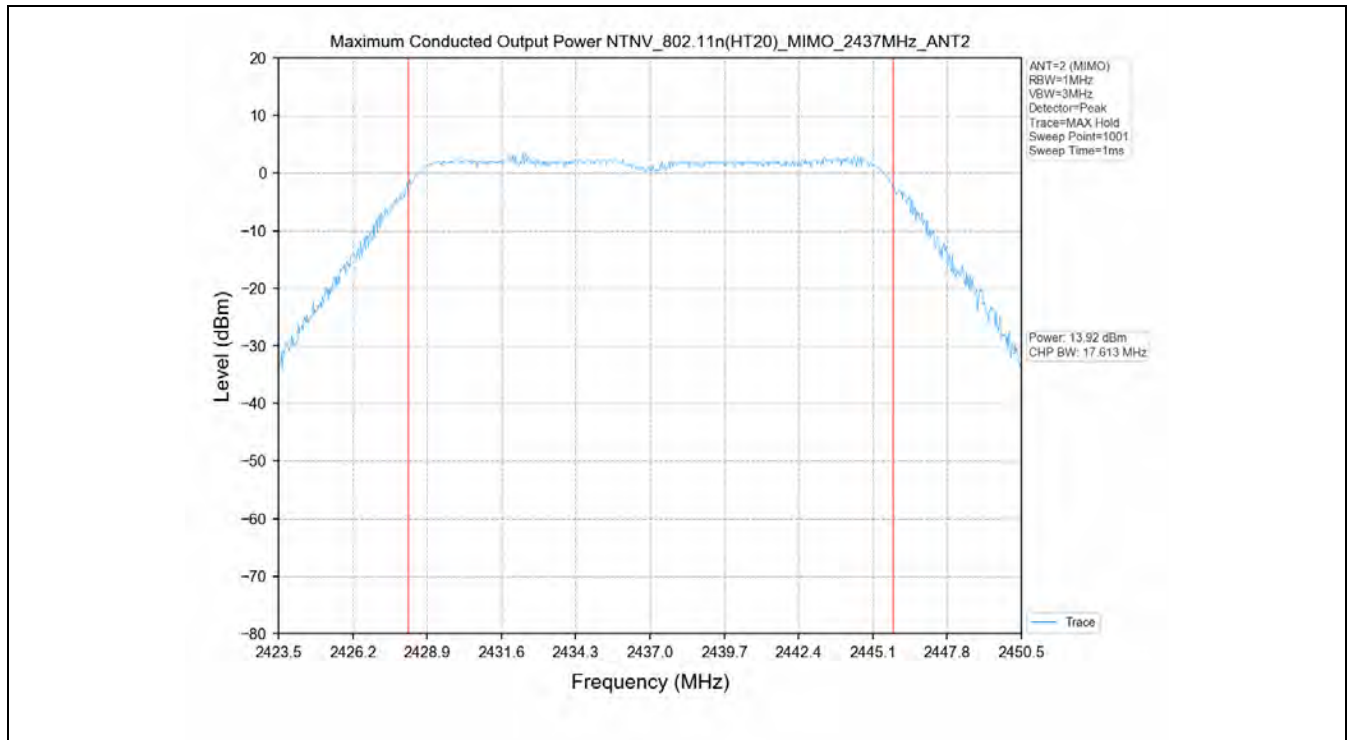


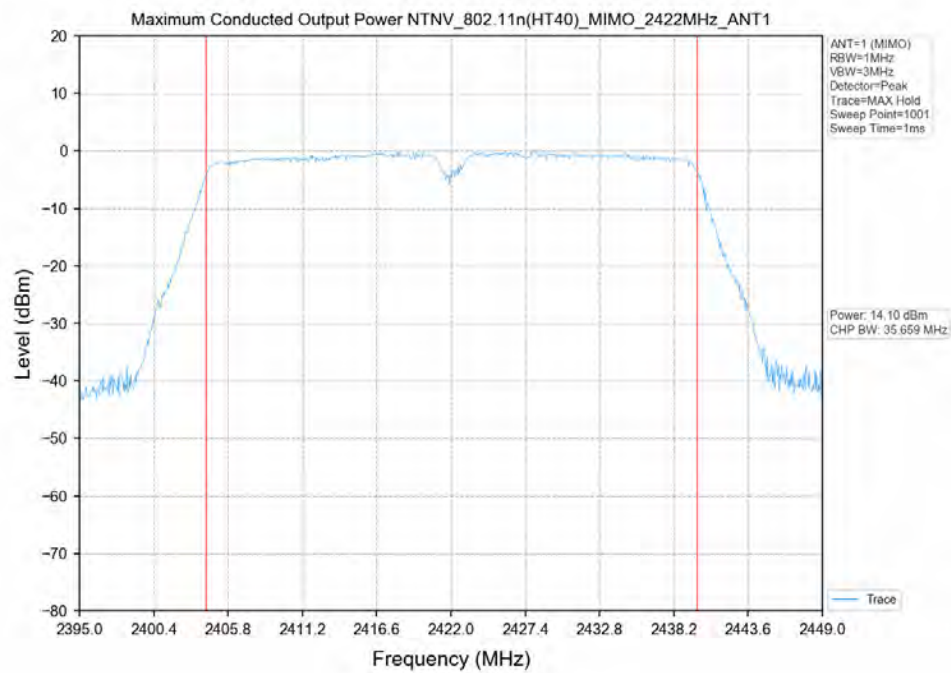
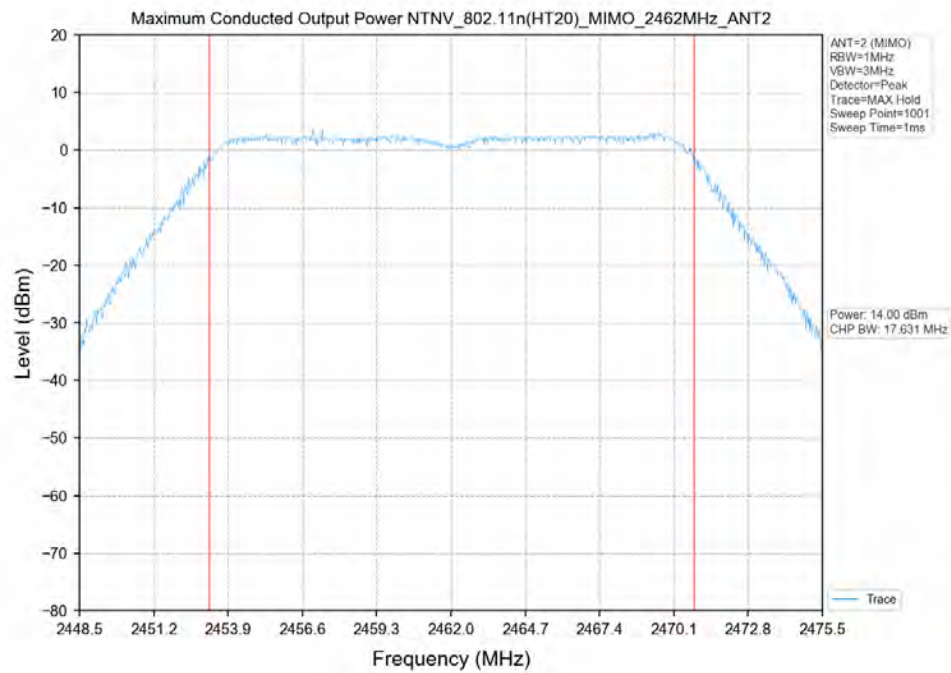


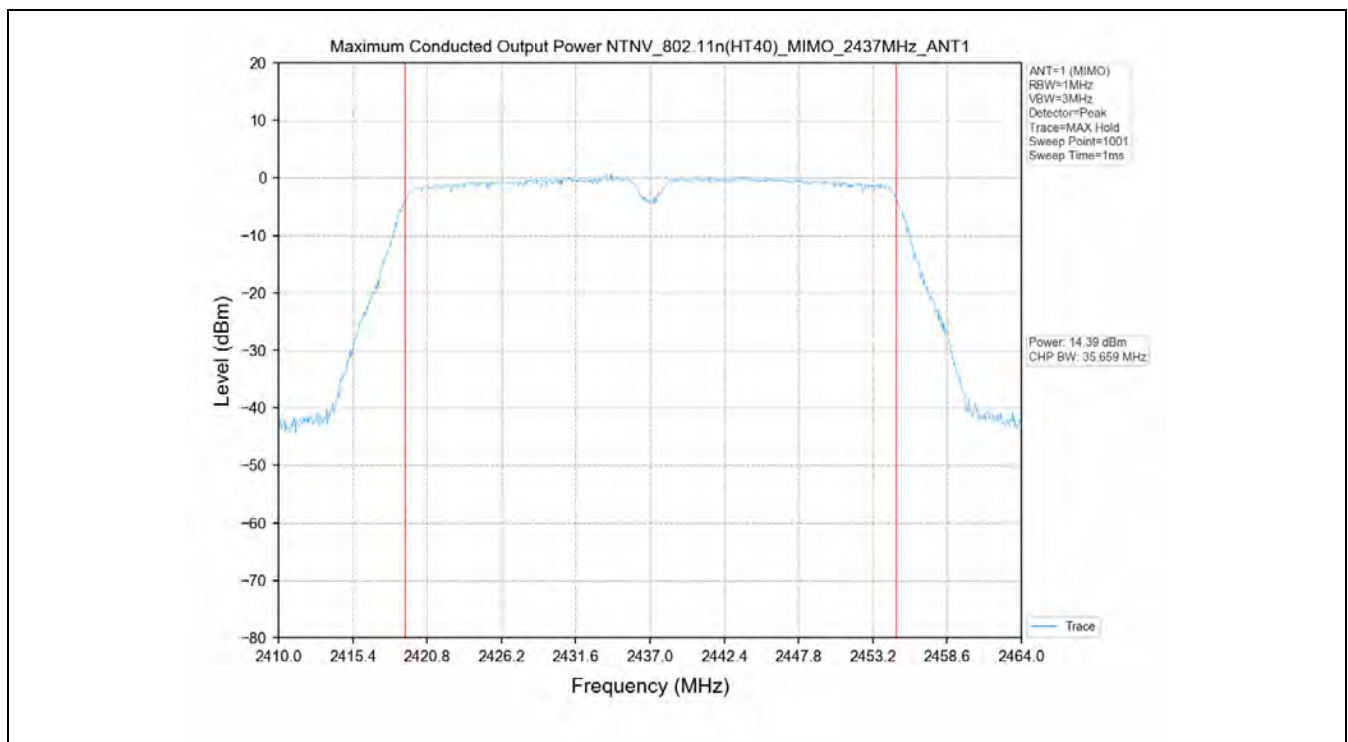
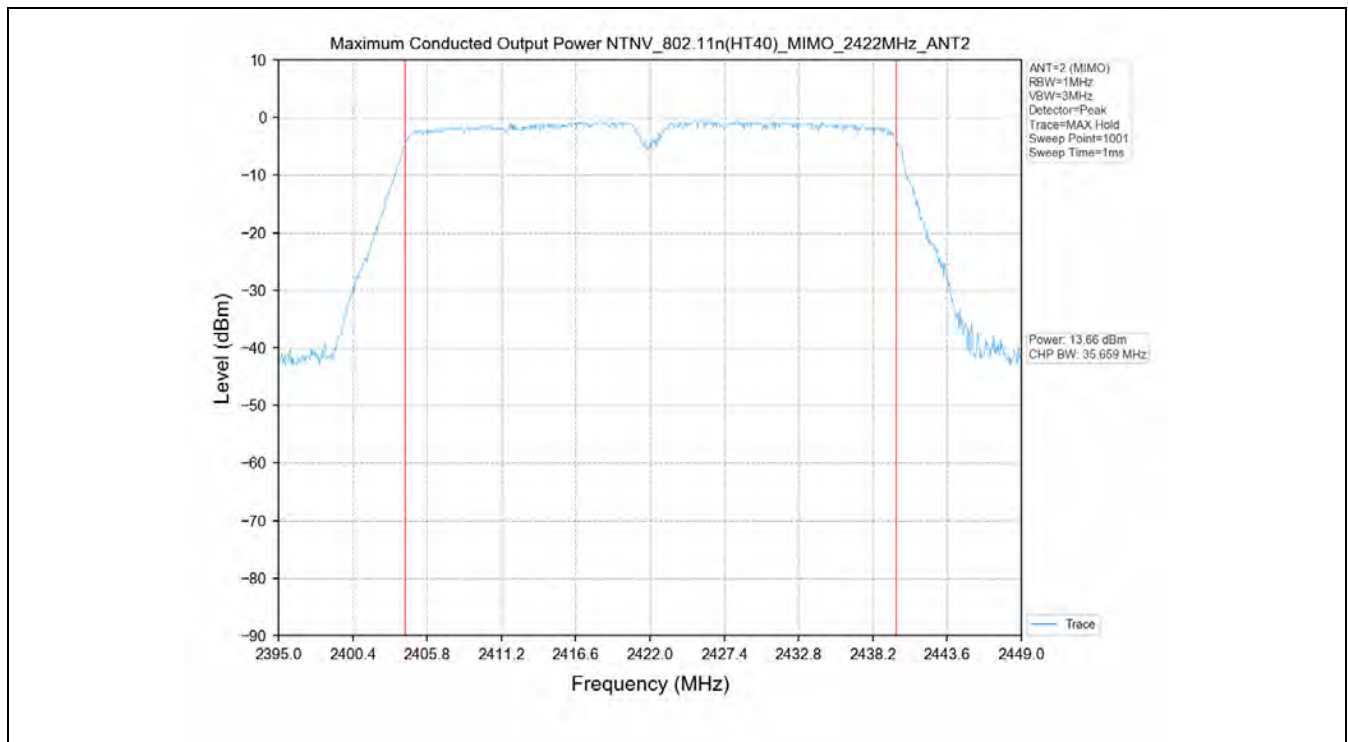


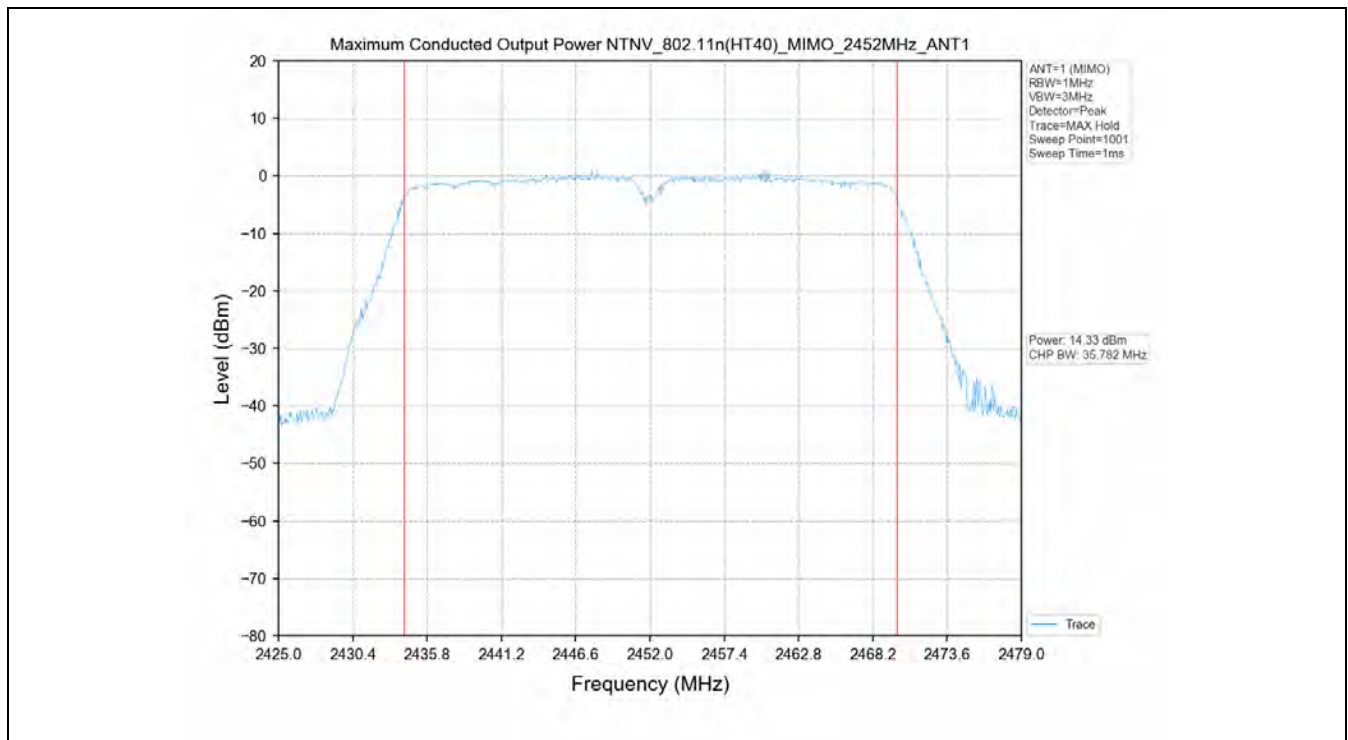
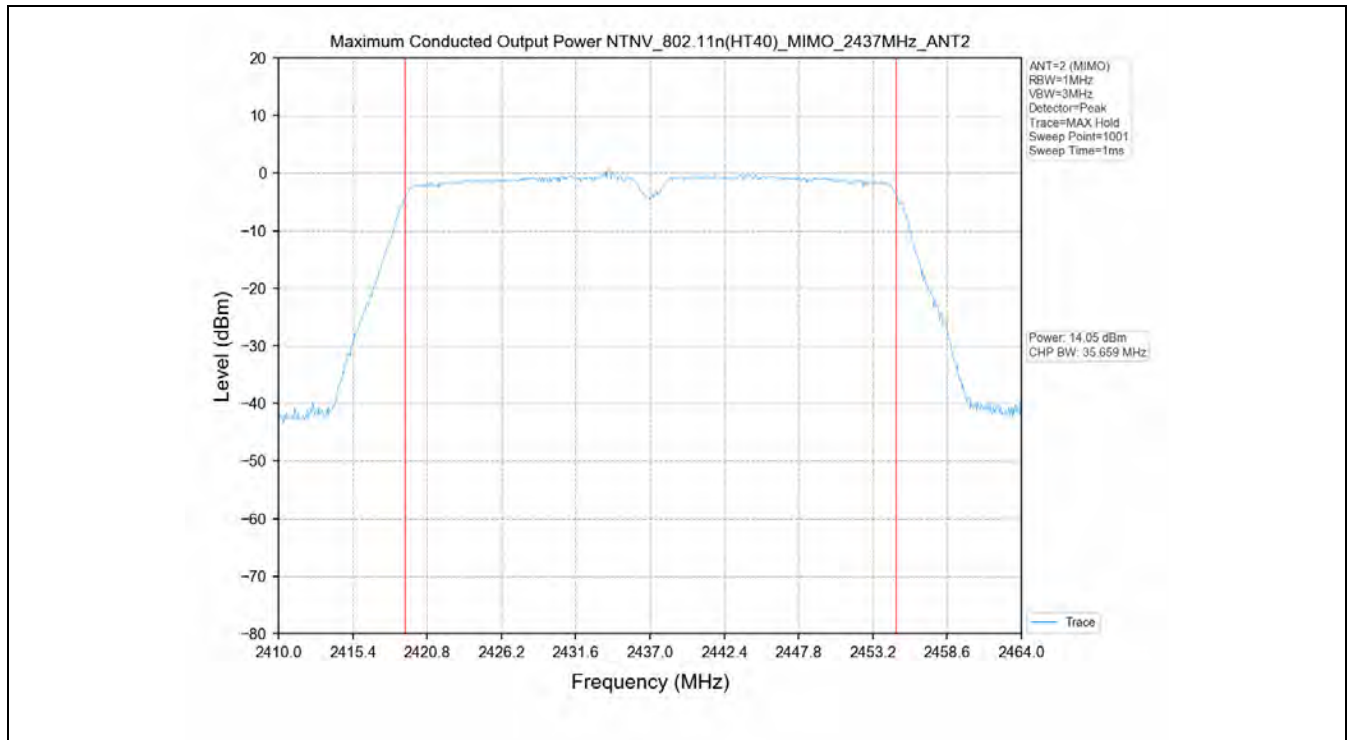


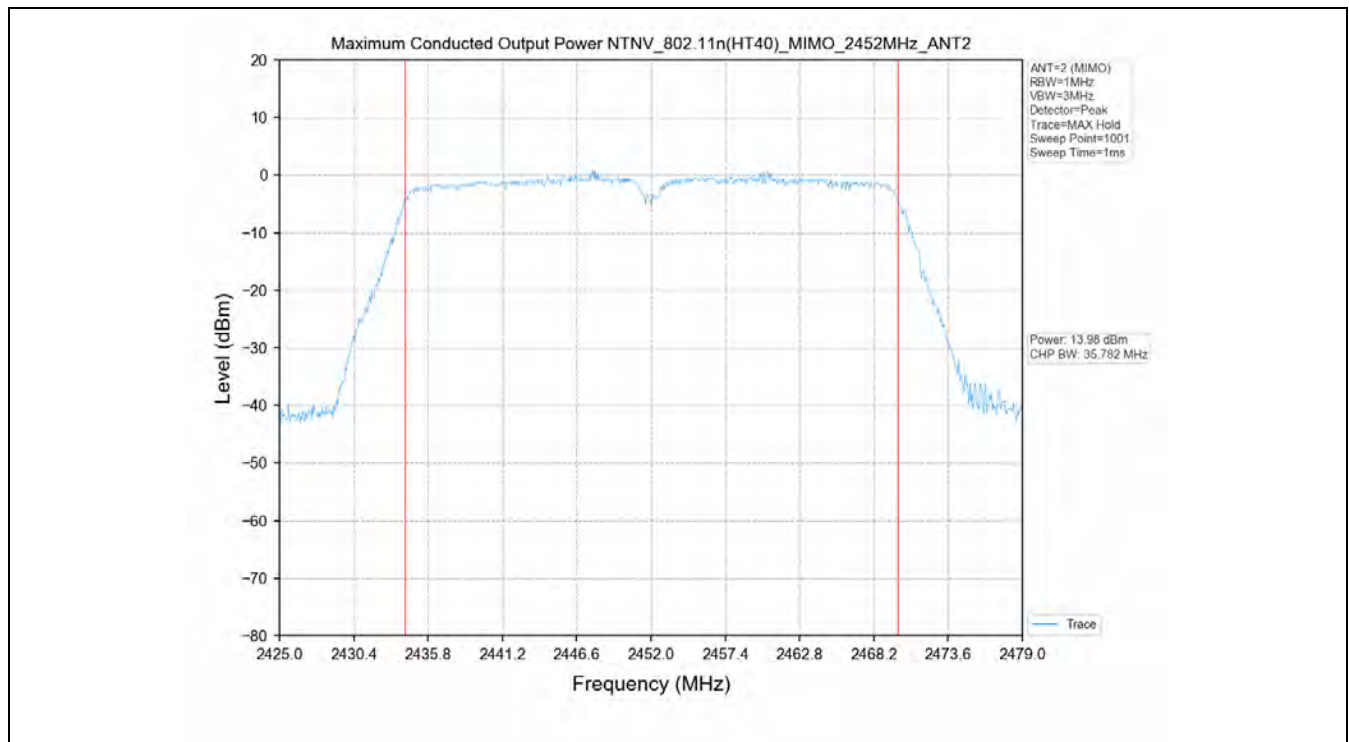










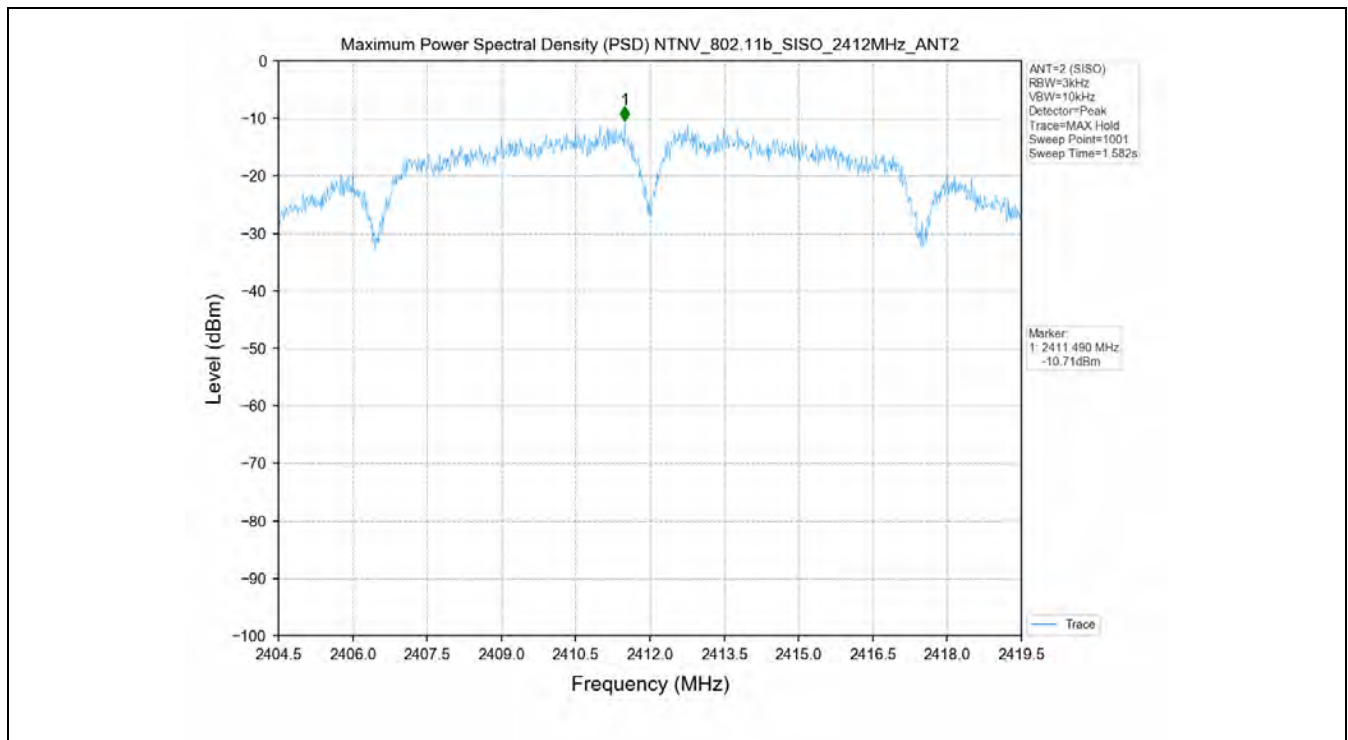
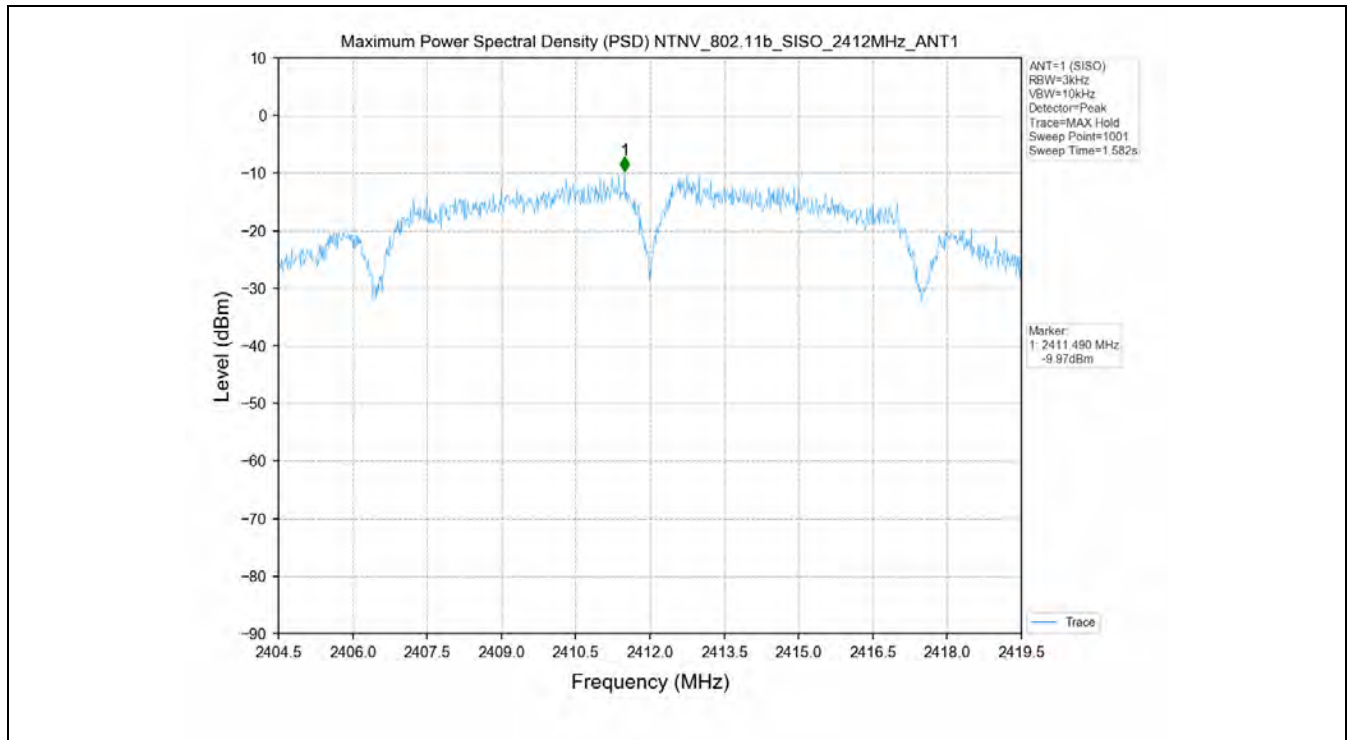


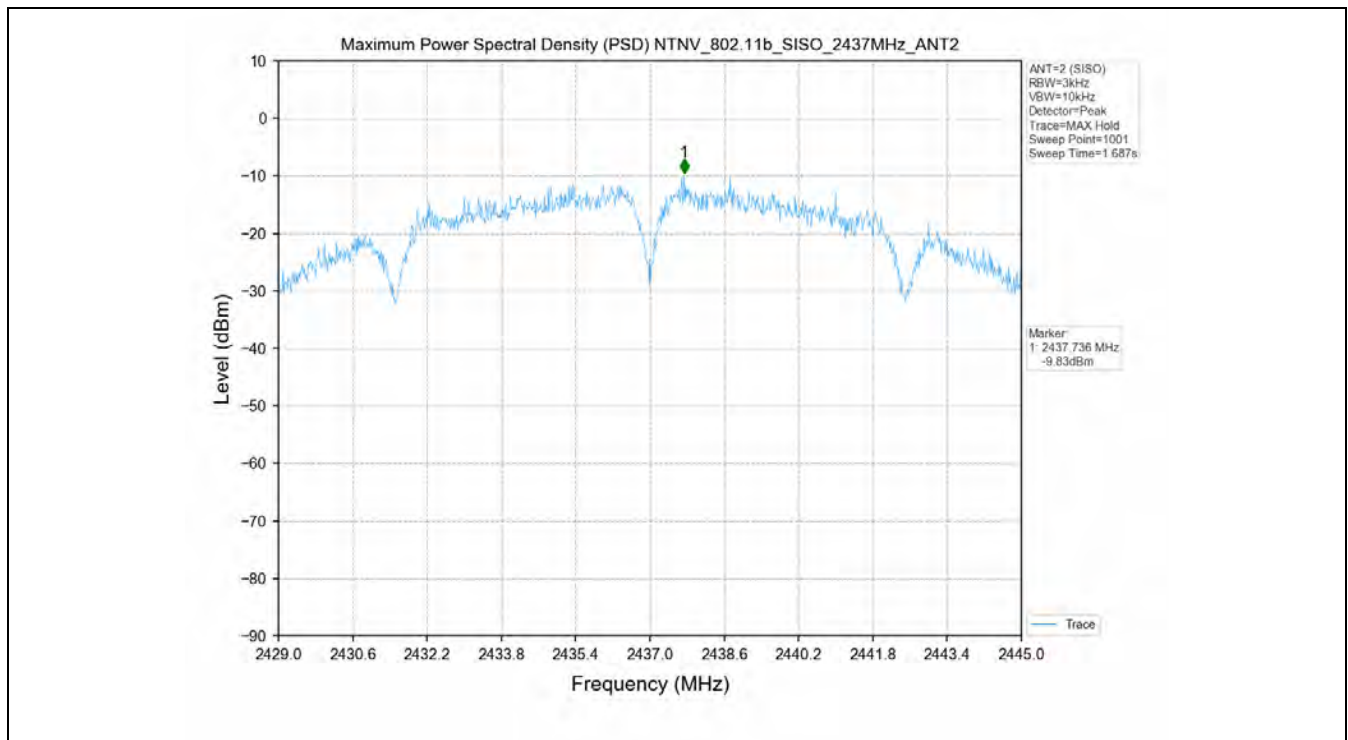
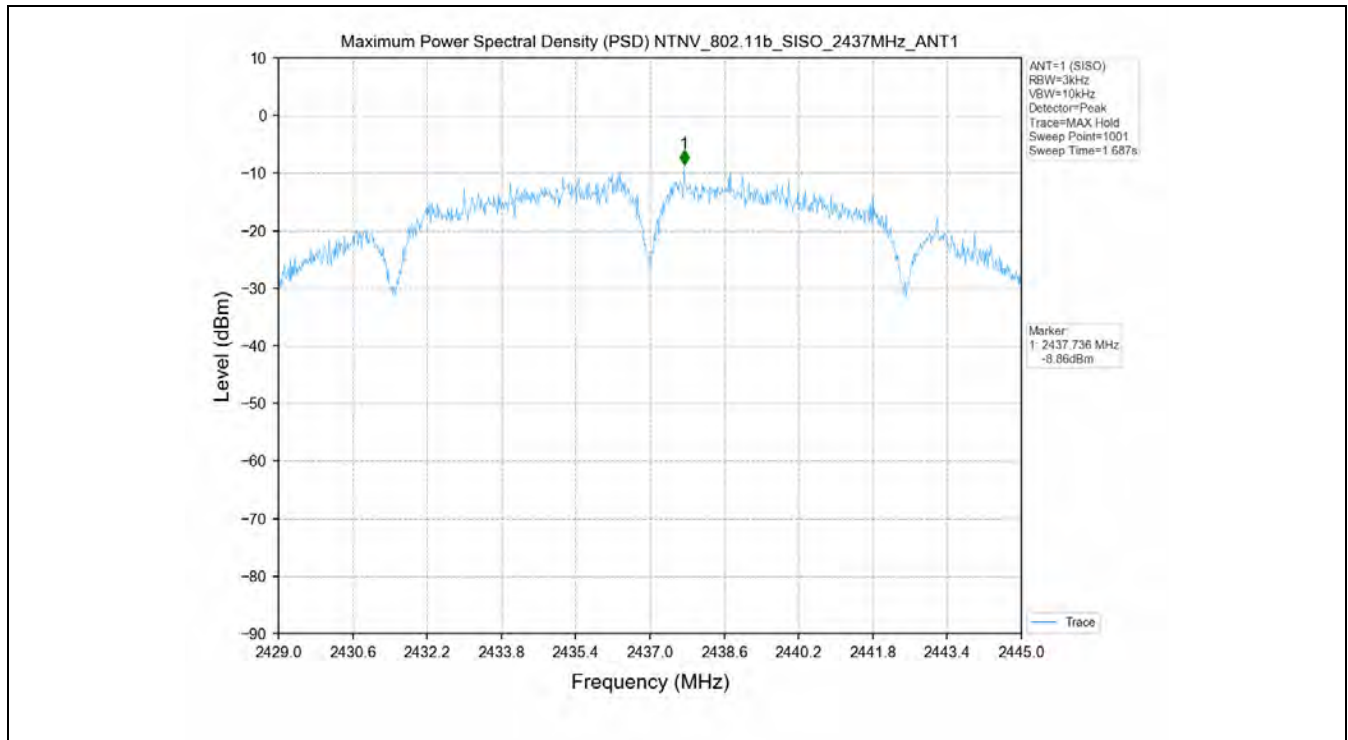
4. Maximum Power Spectral Density (PSD)

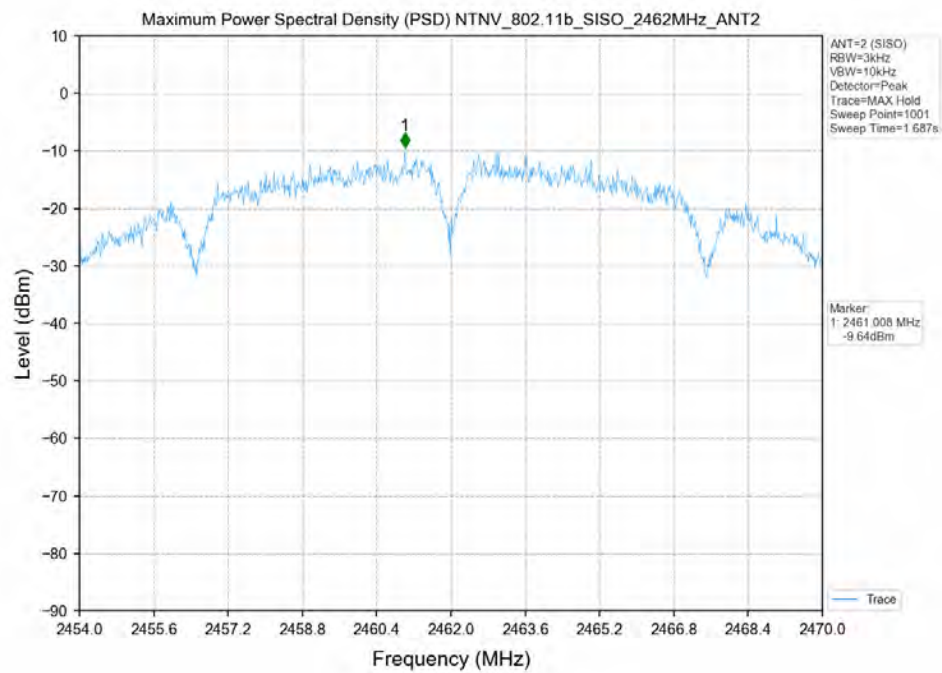
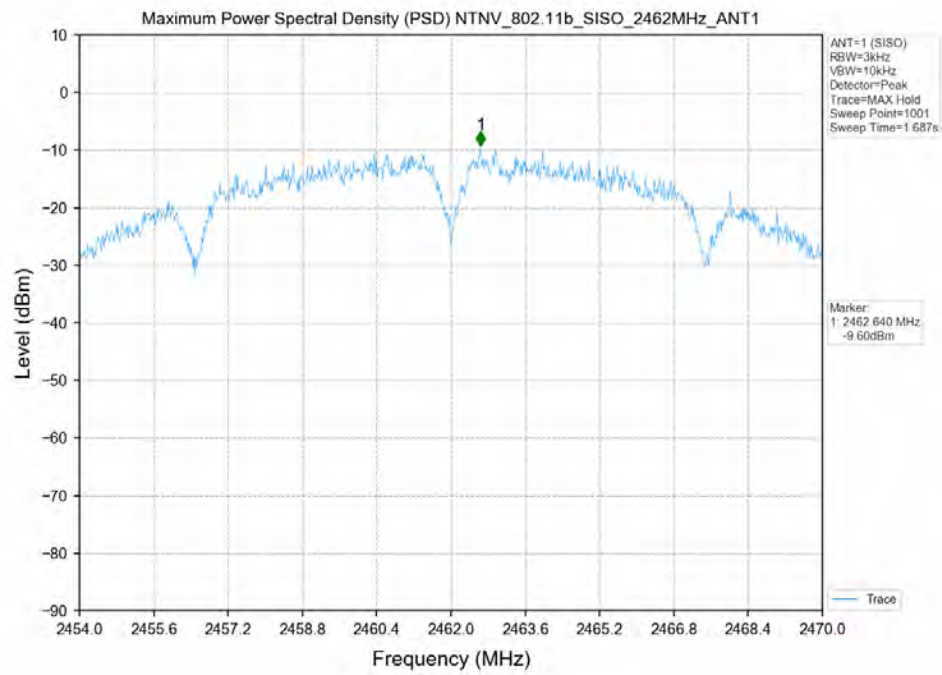
4.1 Test Result

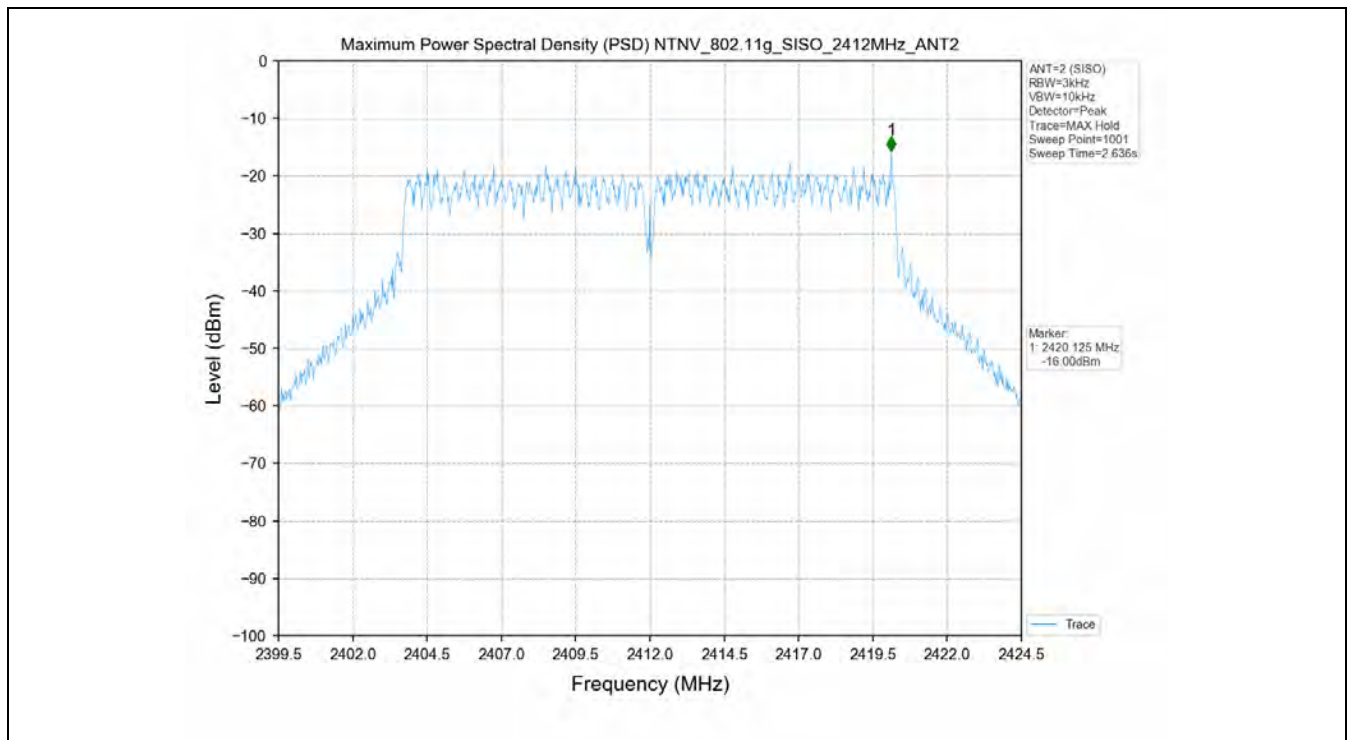
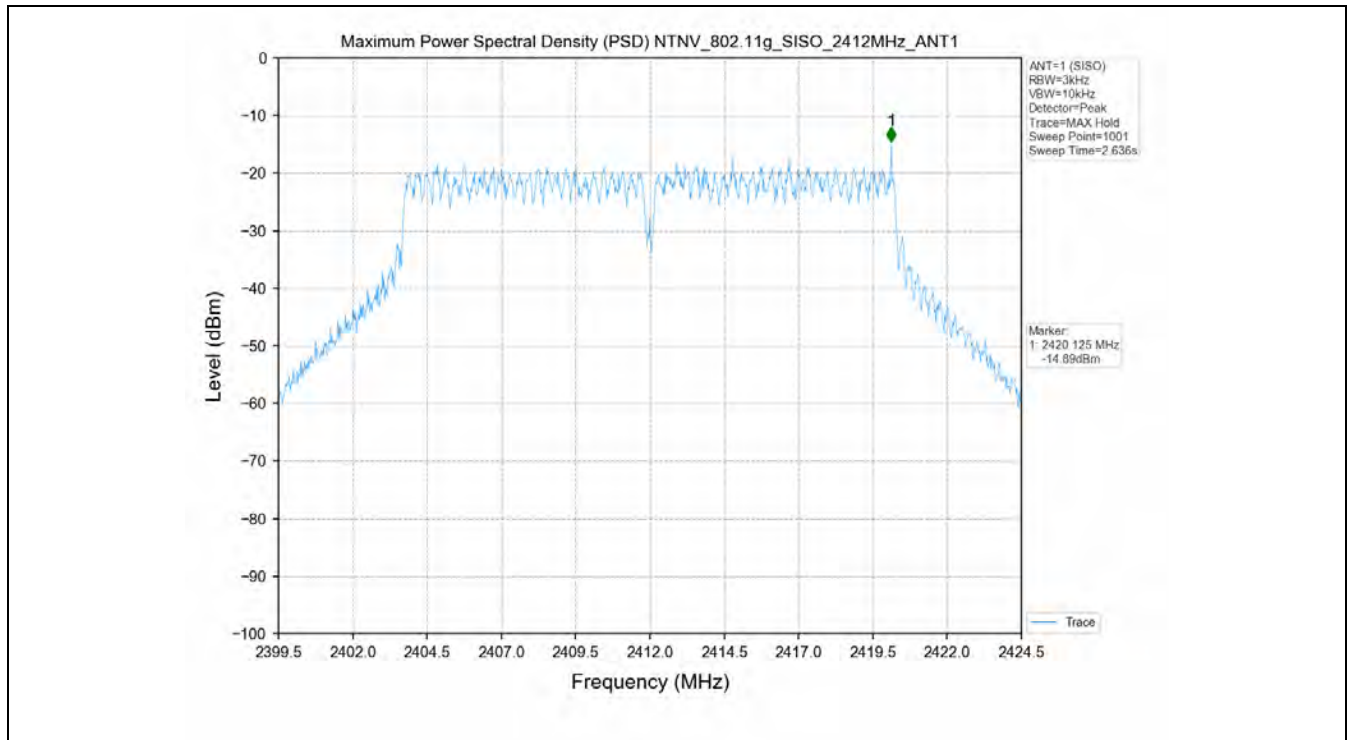
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-9.97	-10.71	/	≤8	PASS
	2437	SISO	-8.86	-9.83	/	≤8	PASS
	2462	SISO	-9.60	-9.64	/	≤8	PASS
802.11g	2412	SISO	-14.89	-16.00	/	≤8	PASS
	2437	SISO	-16.22	-15.61	/	≤8	PASS
	2462	SISO	-15.69	-16.48	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-19.64	-19.57	-16.89	≤8	PASS
	2437	MIMO	-18.55	-19.69	-16.47	≤8	PASS
	2462	MIMO	-18.67	-19.35	-16.10	≤8	PASS
802.11n(HT40)	2422	MIMO	-21.67	-22.61	-19.10	≤8	PASS
	2437	MIMO	-21.79	-21.66	-18.86	≤8	PASS
	2452	MIMO	-21.42	-21.63	-18.51	≤8	PASS

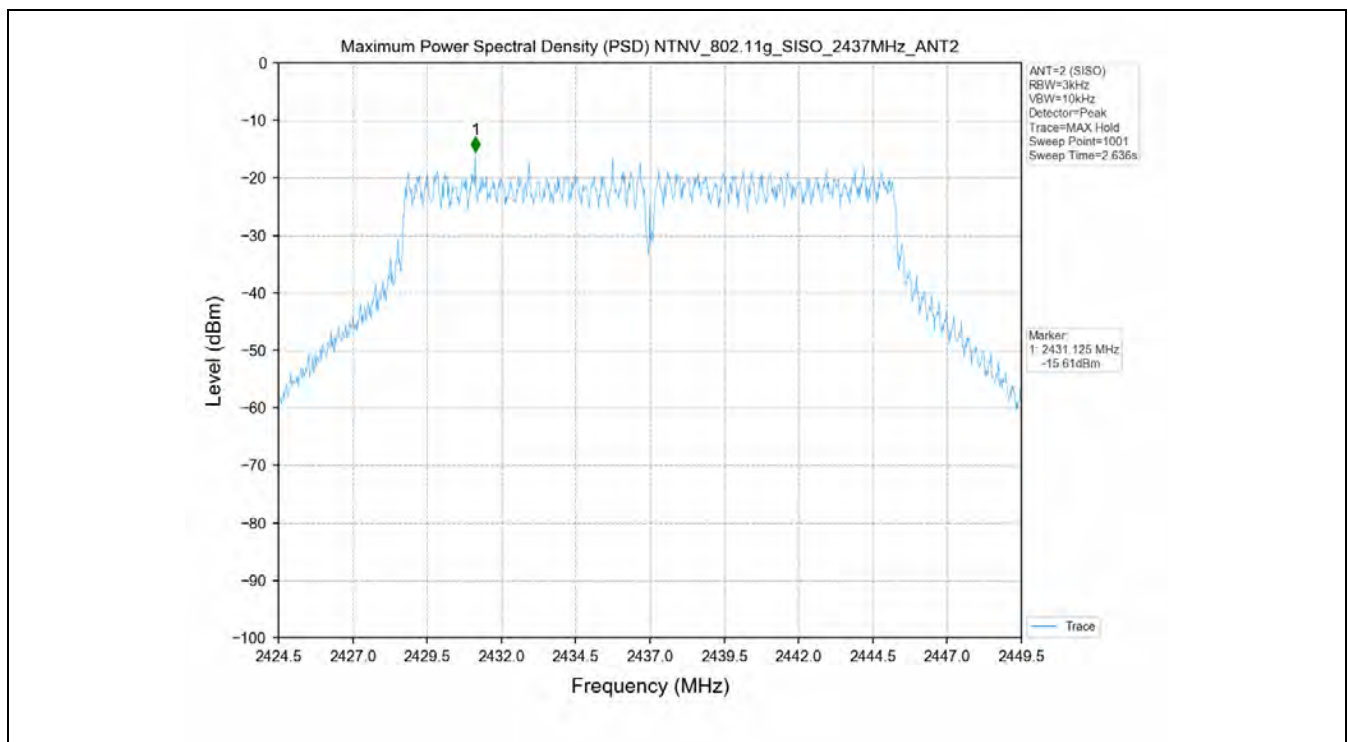
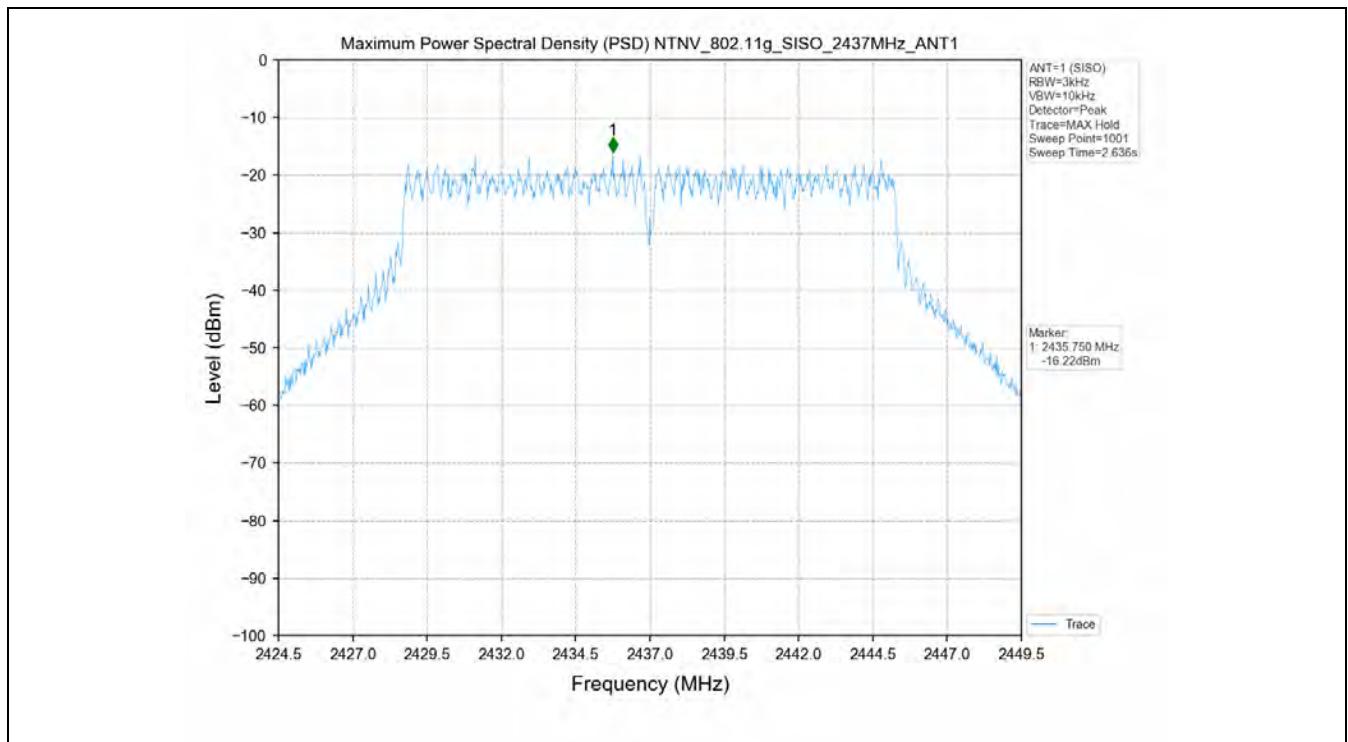
4.2 Test Graph





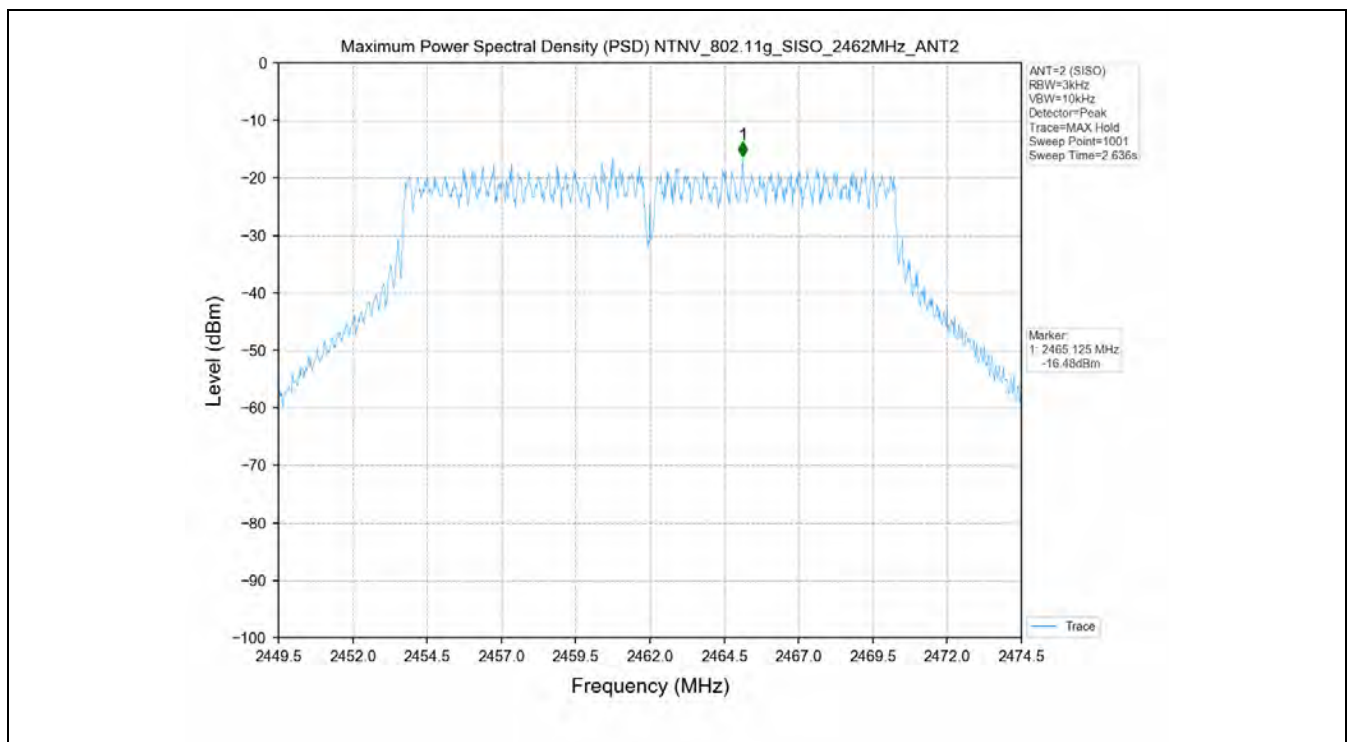
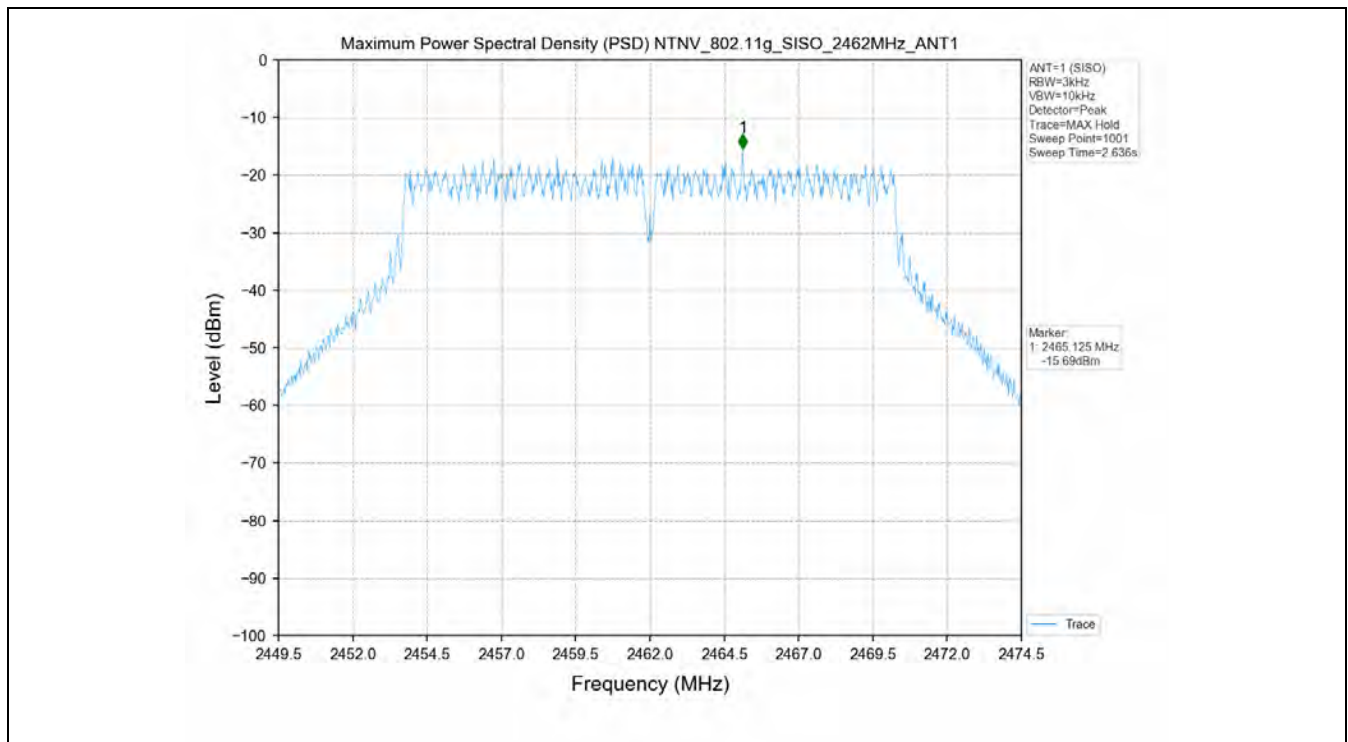


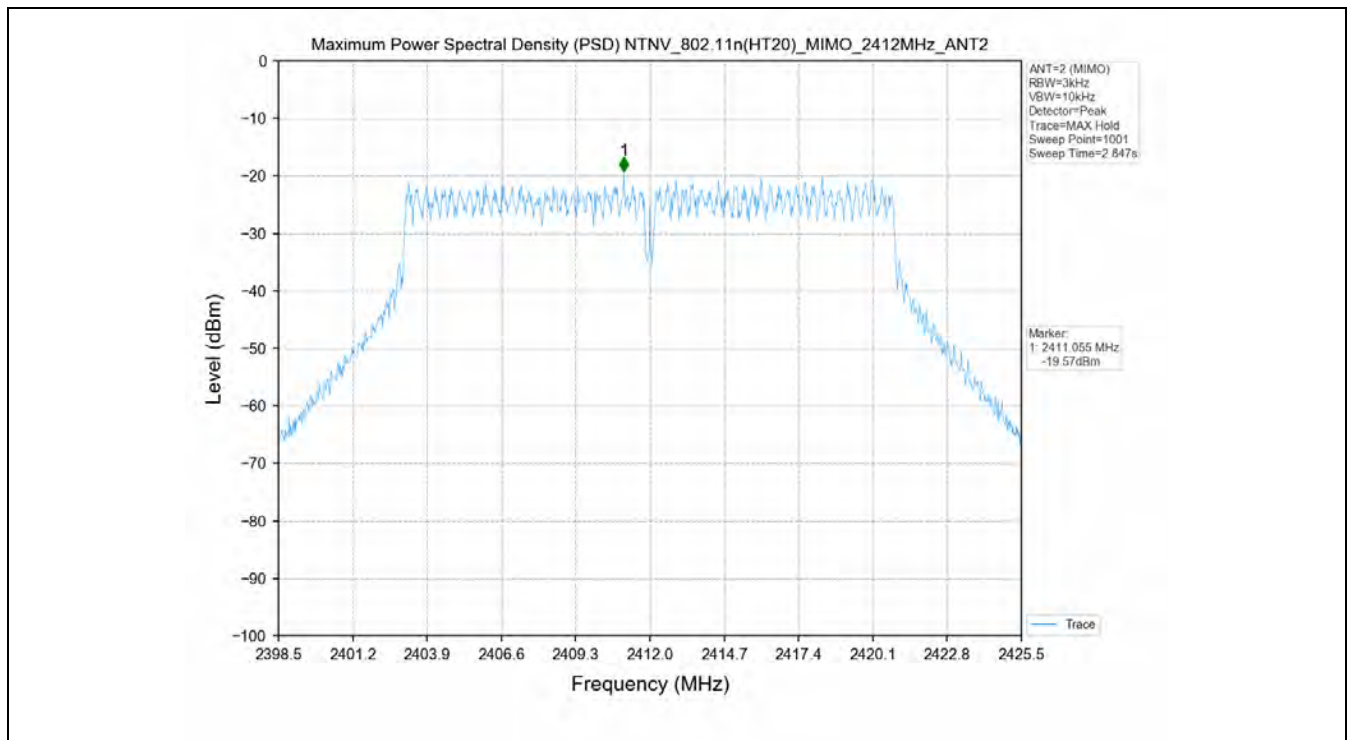
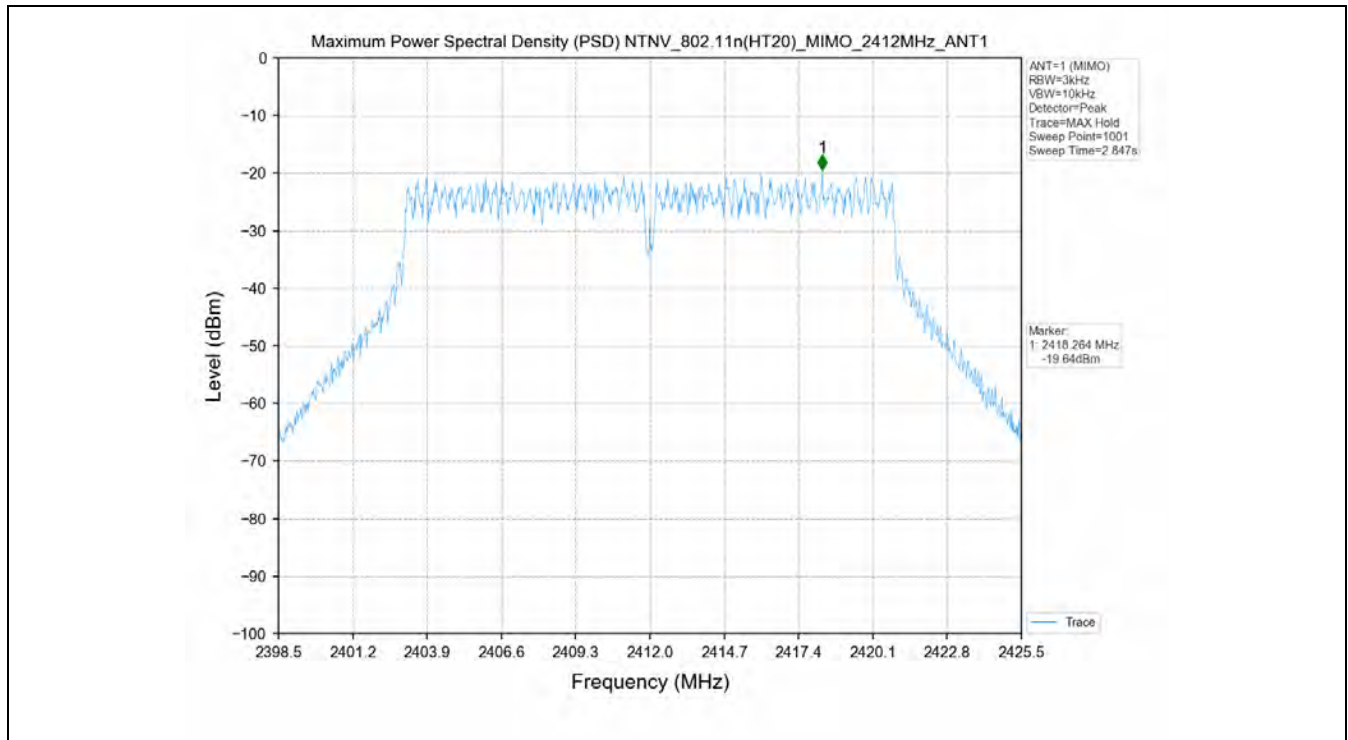


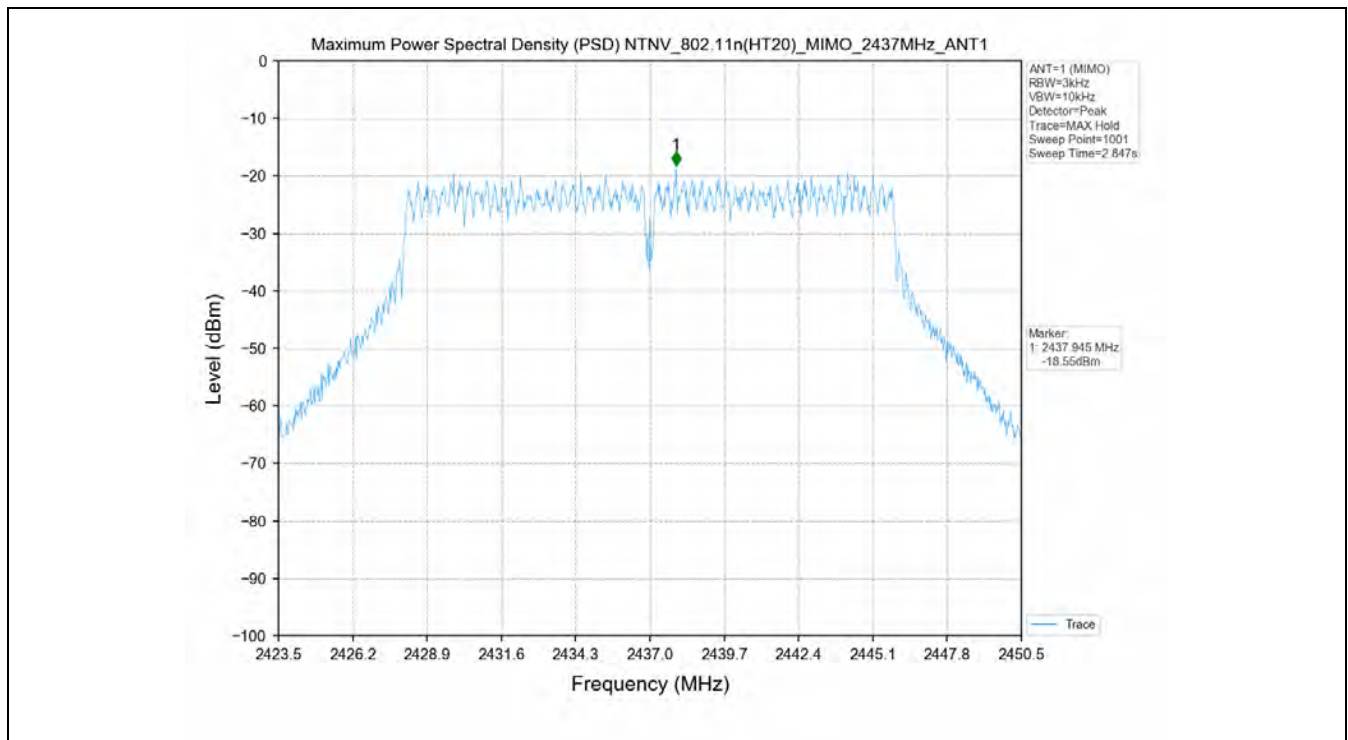
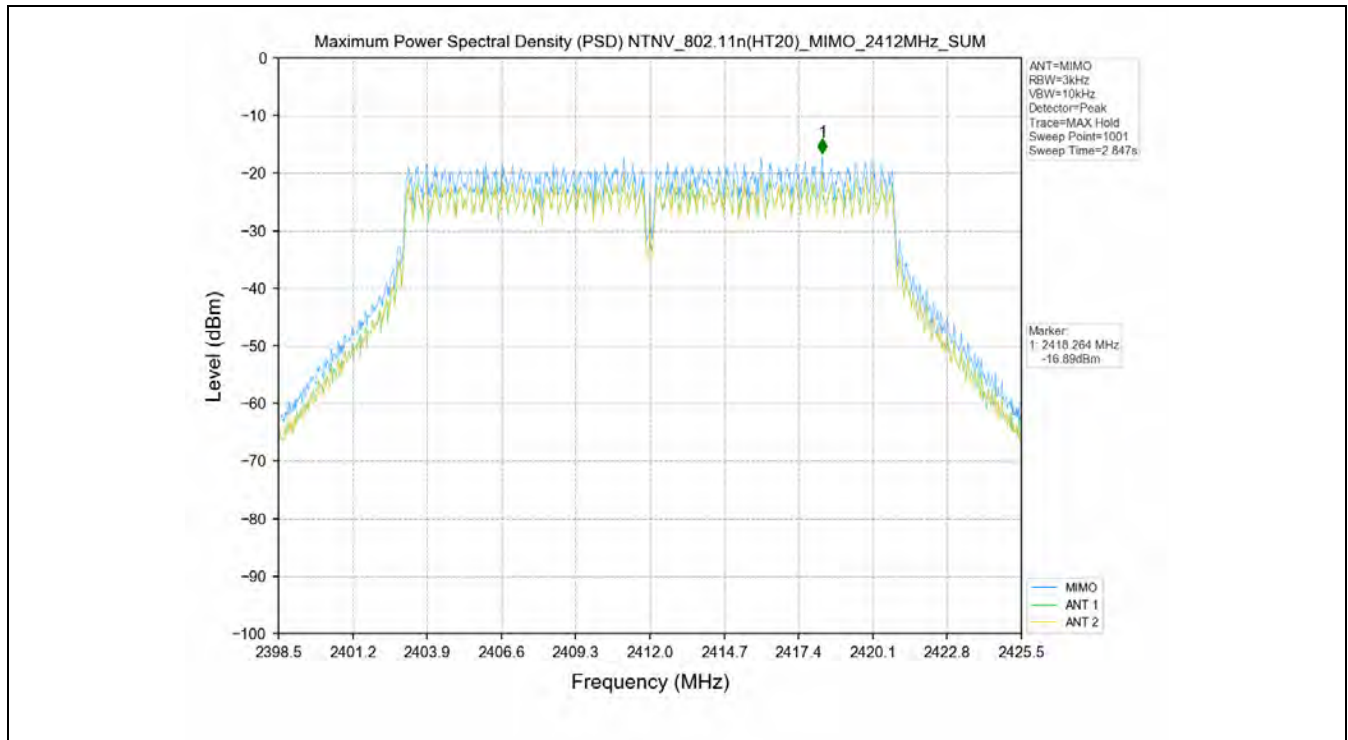


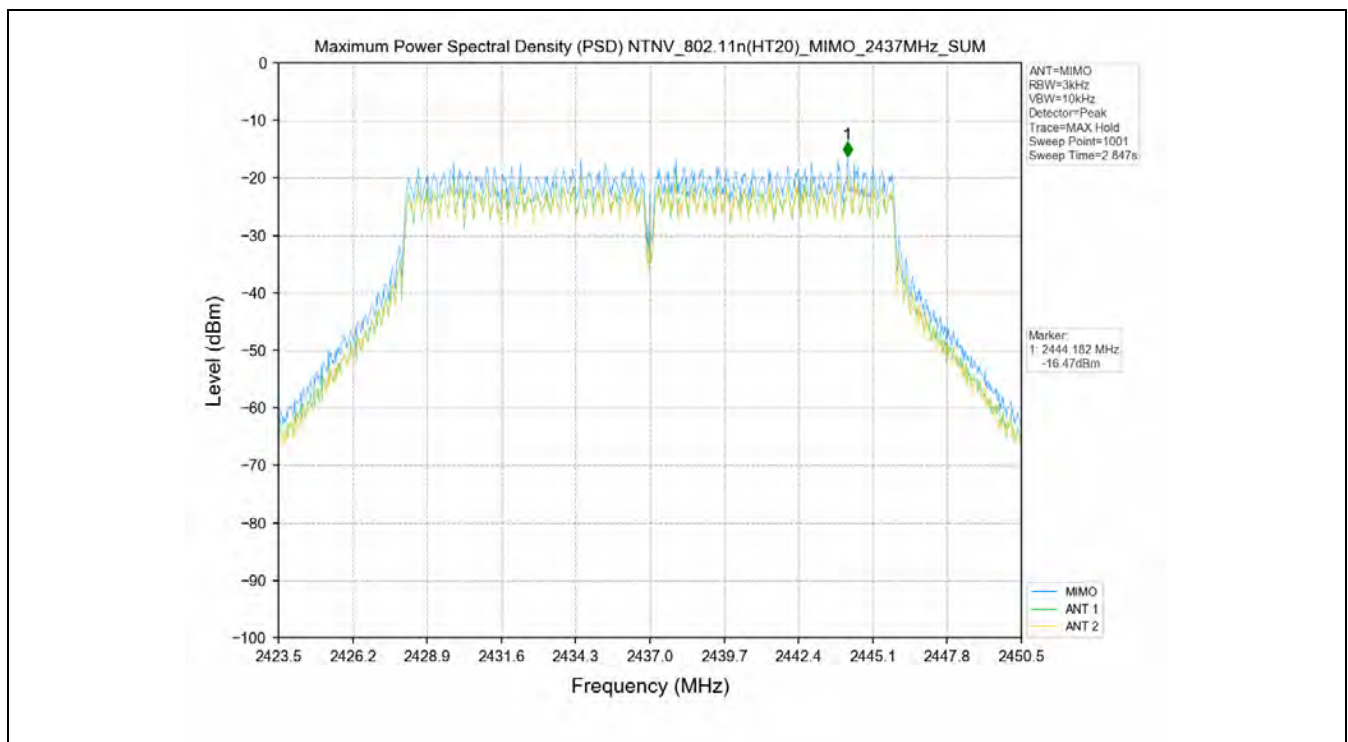
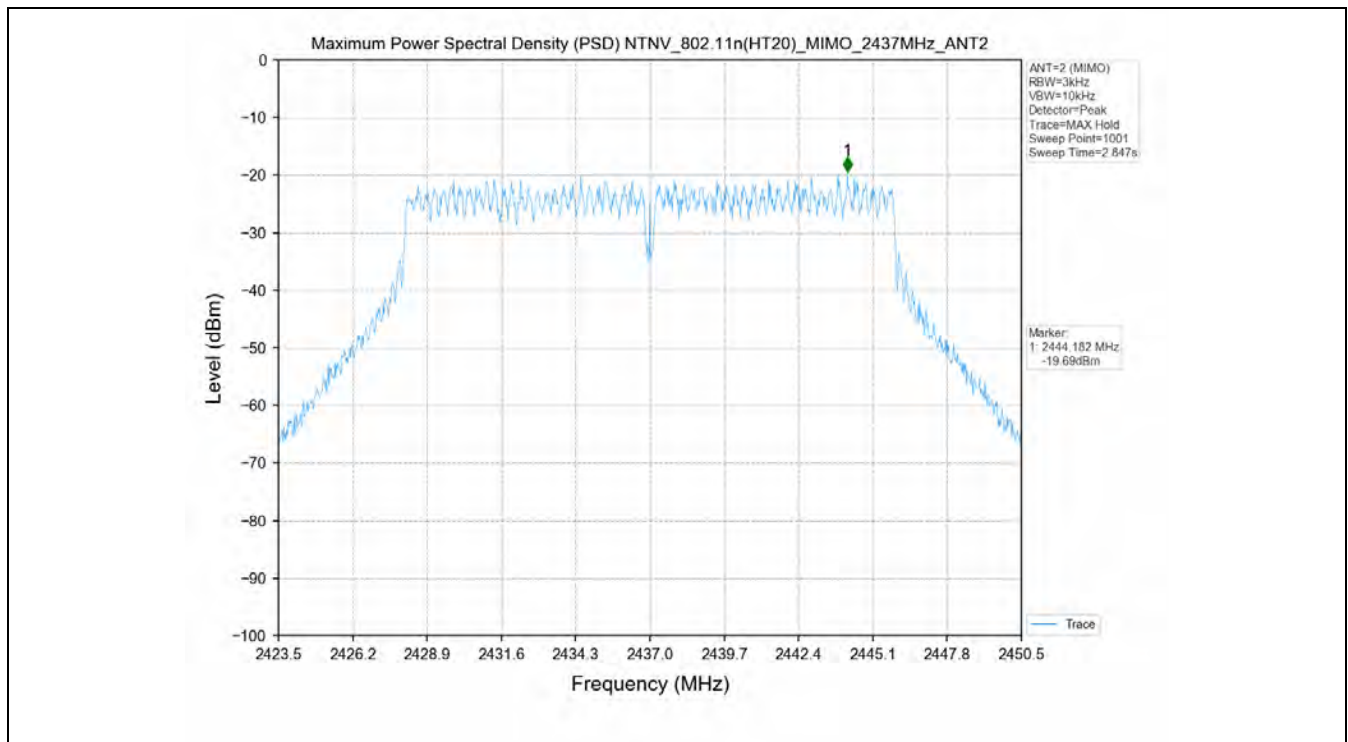


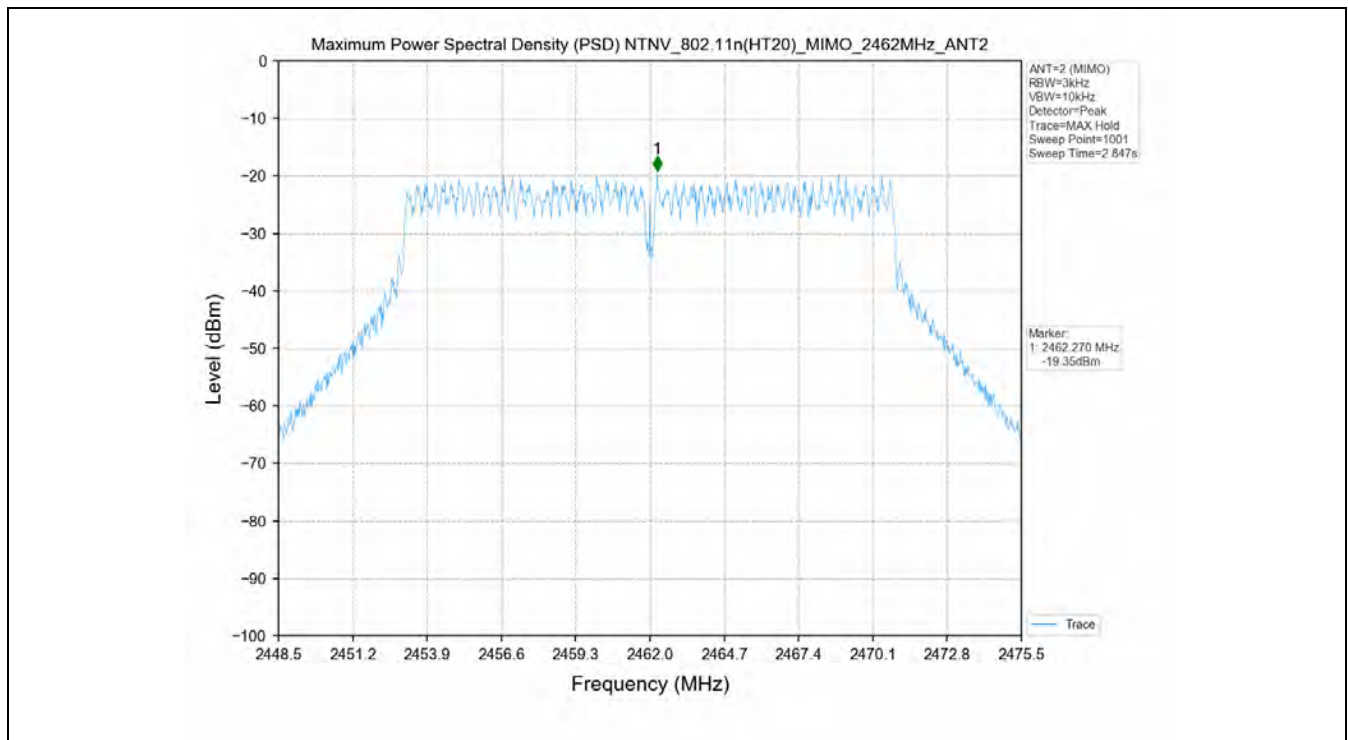
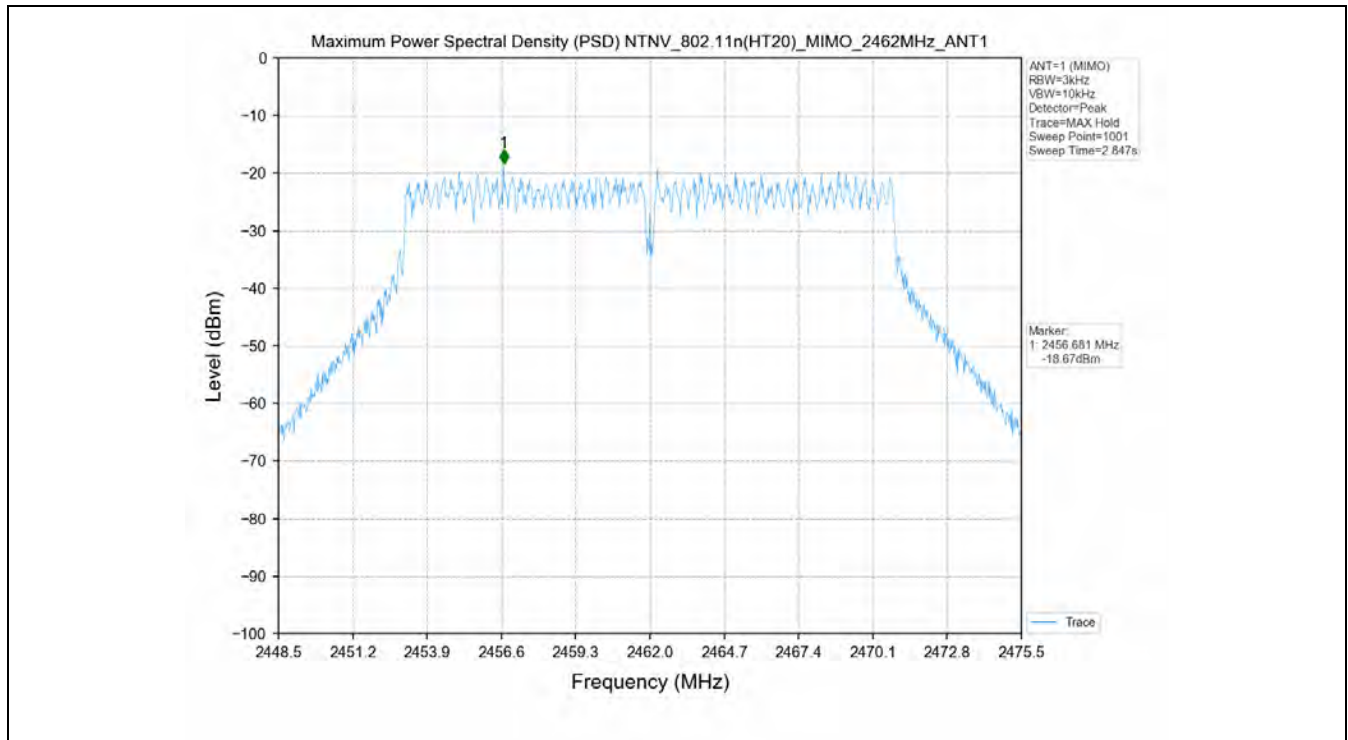
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

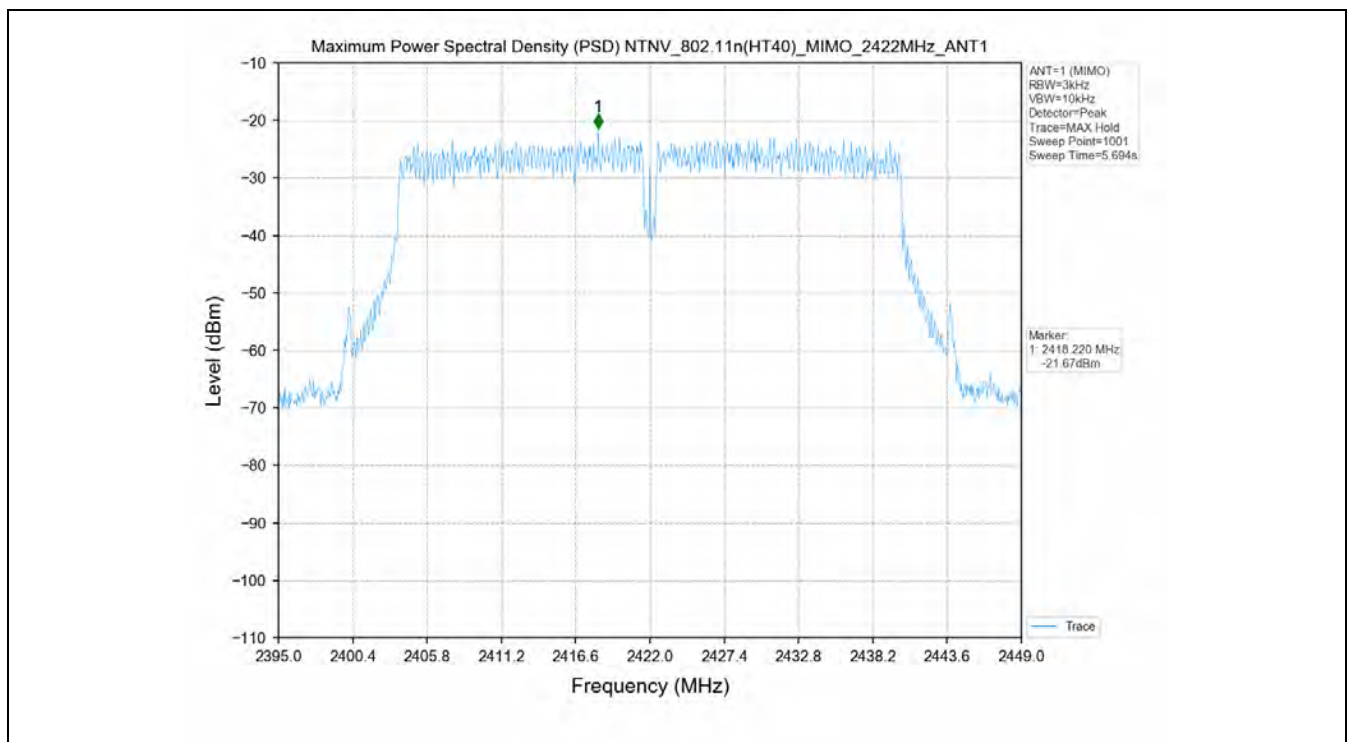
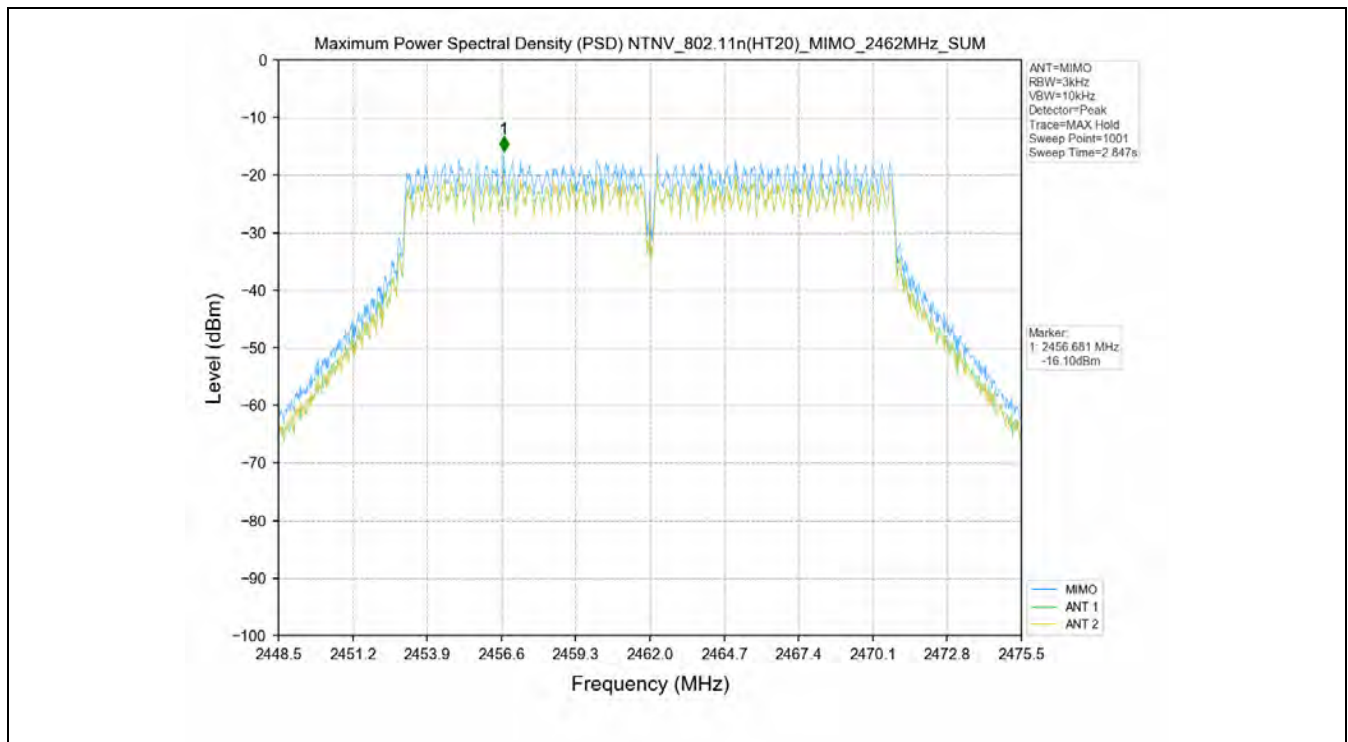


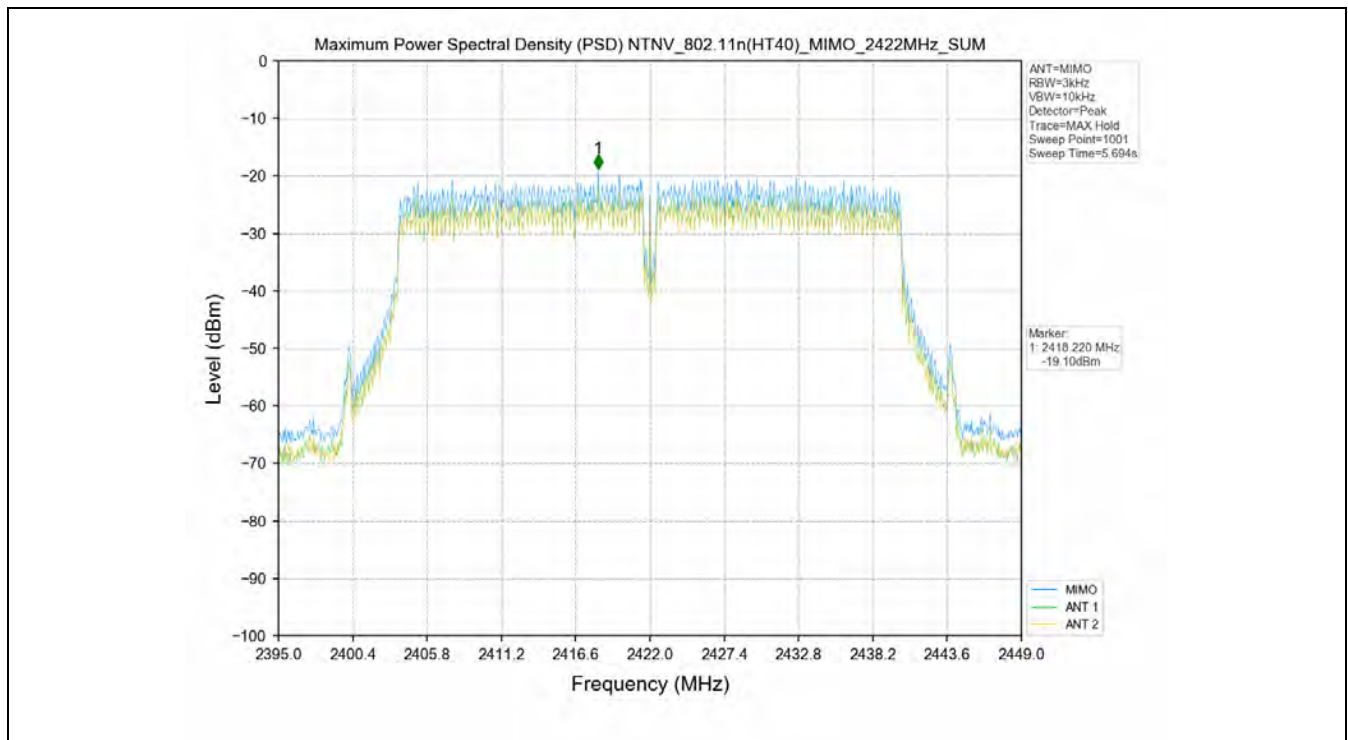
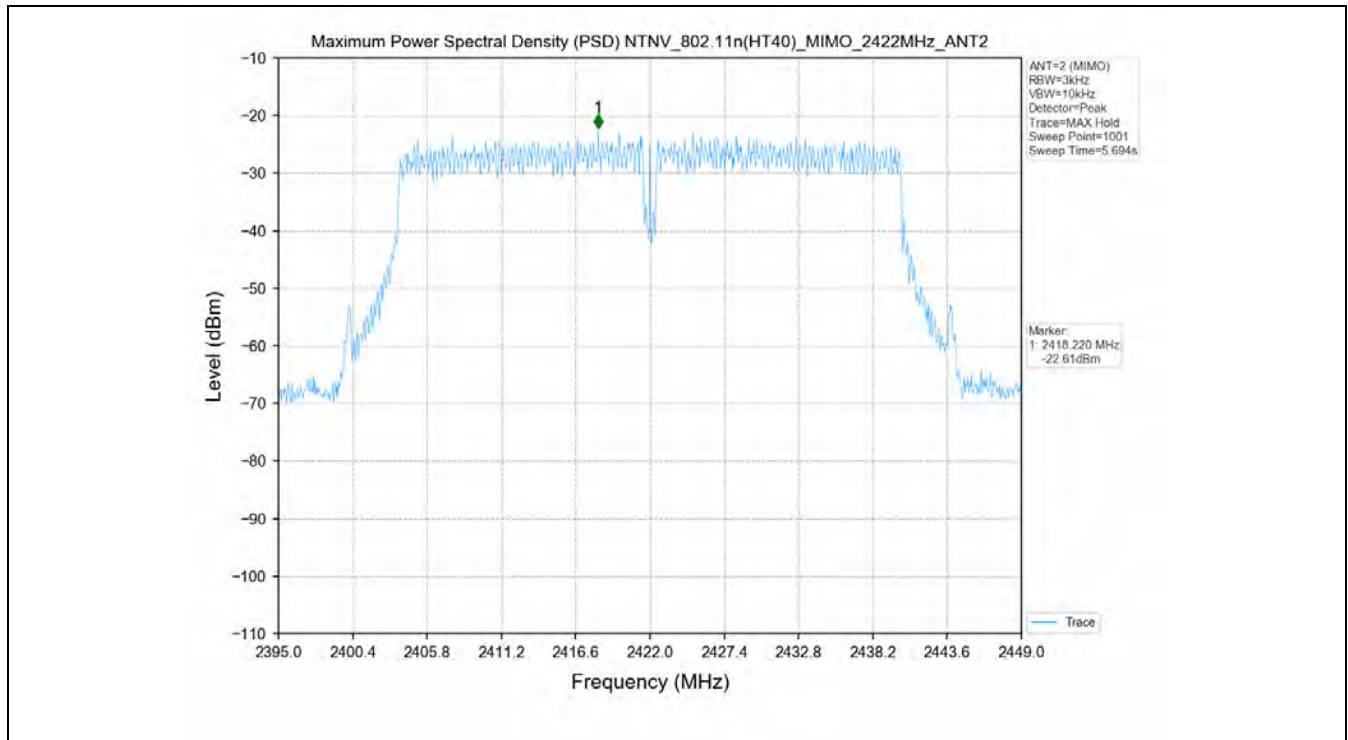


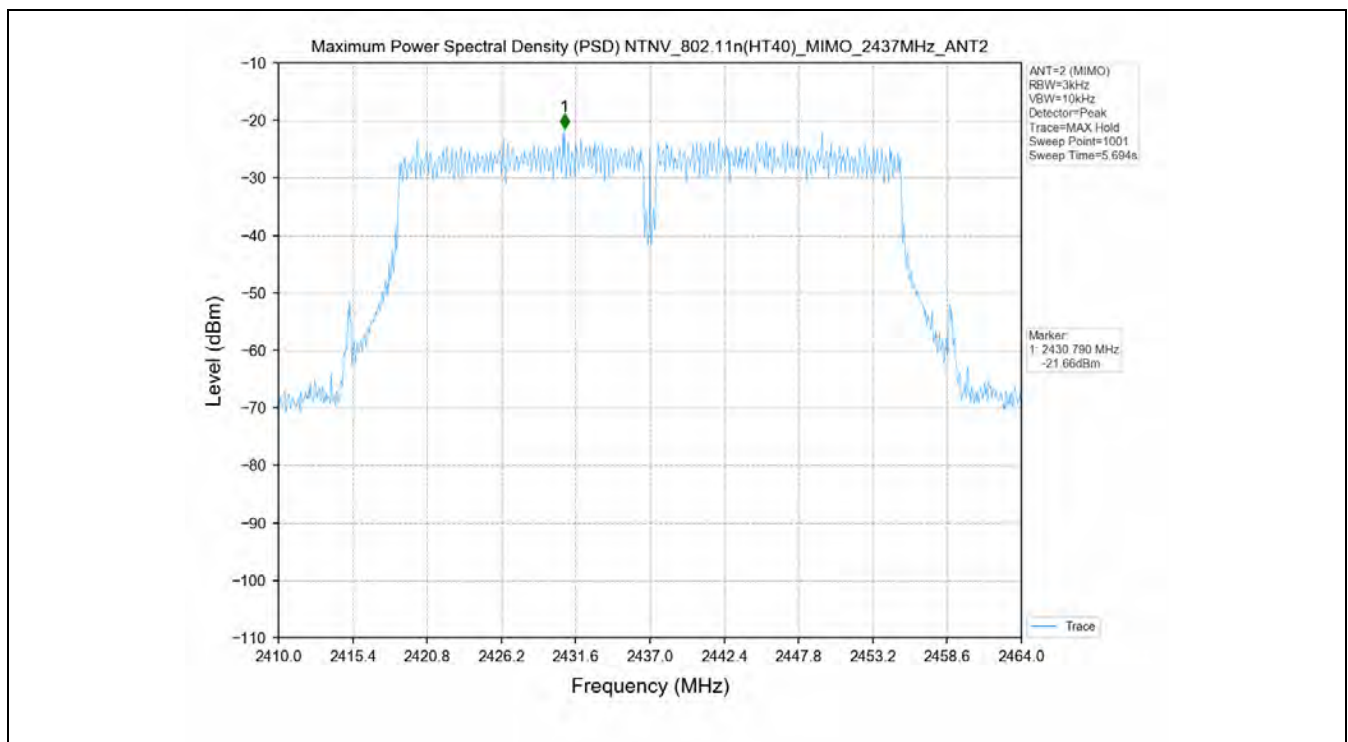
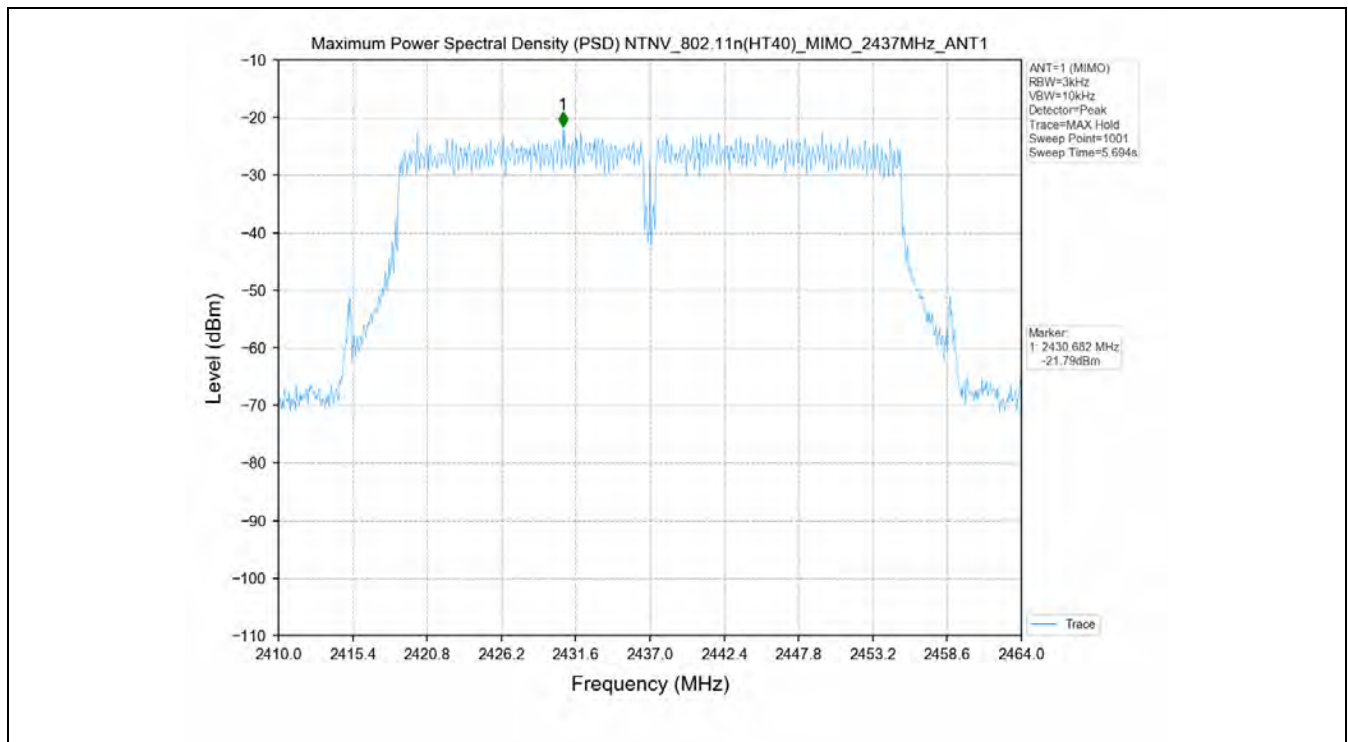


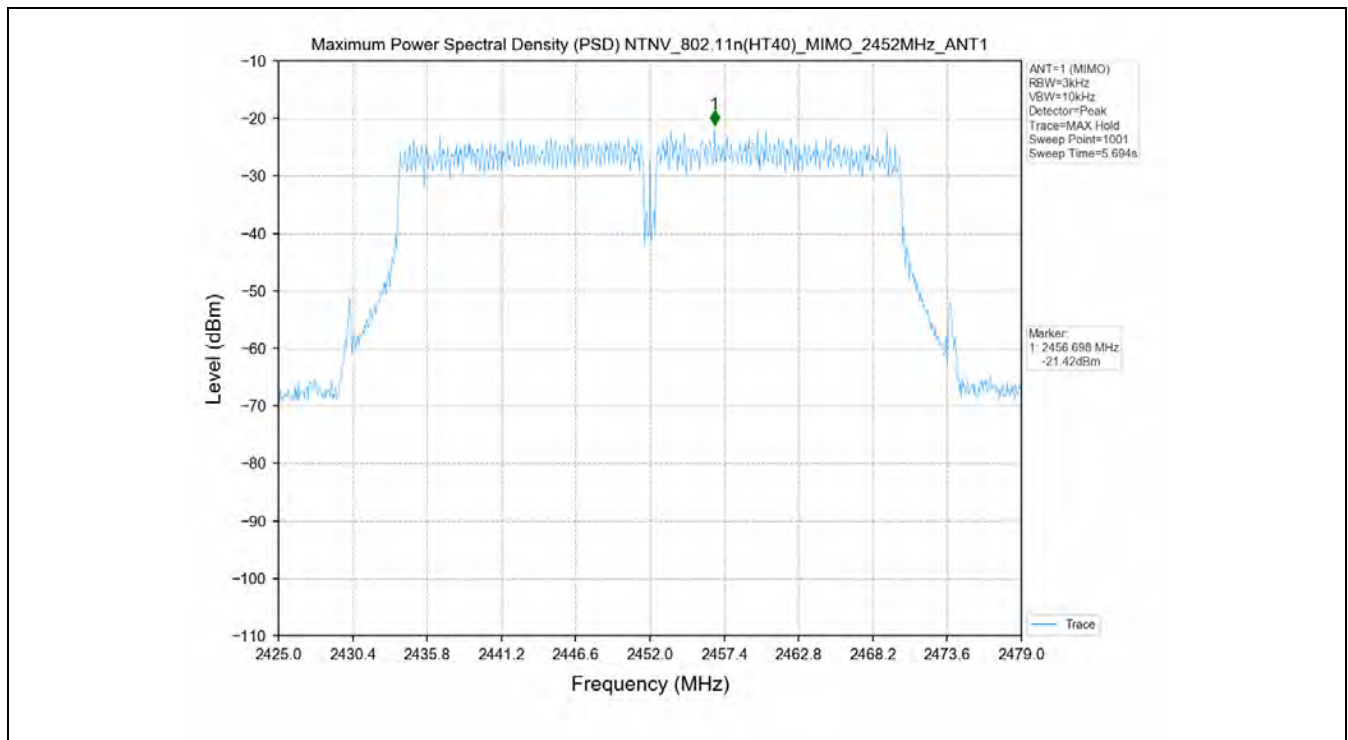
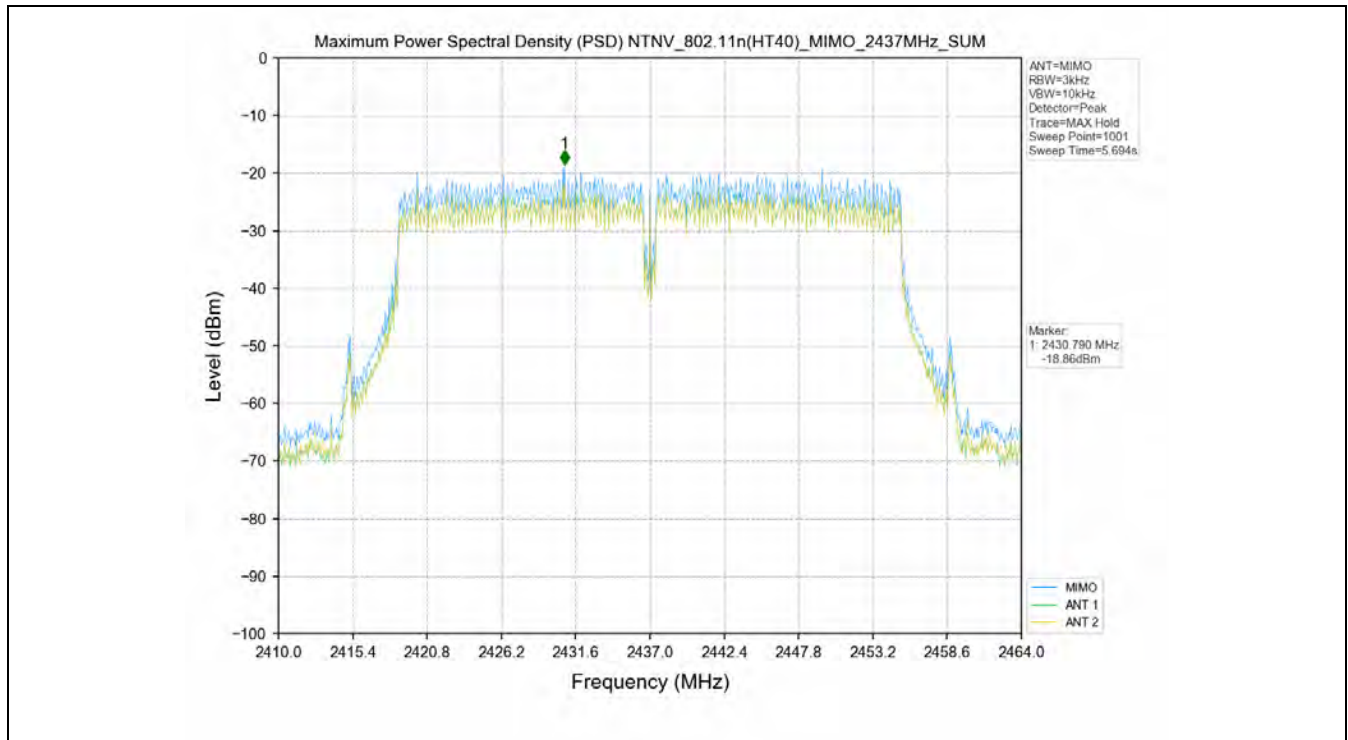


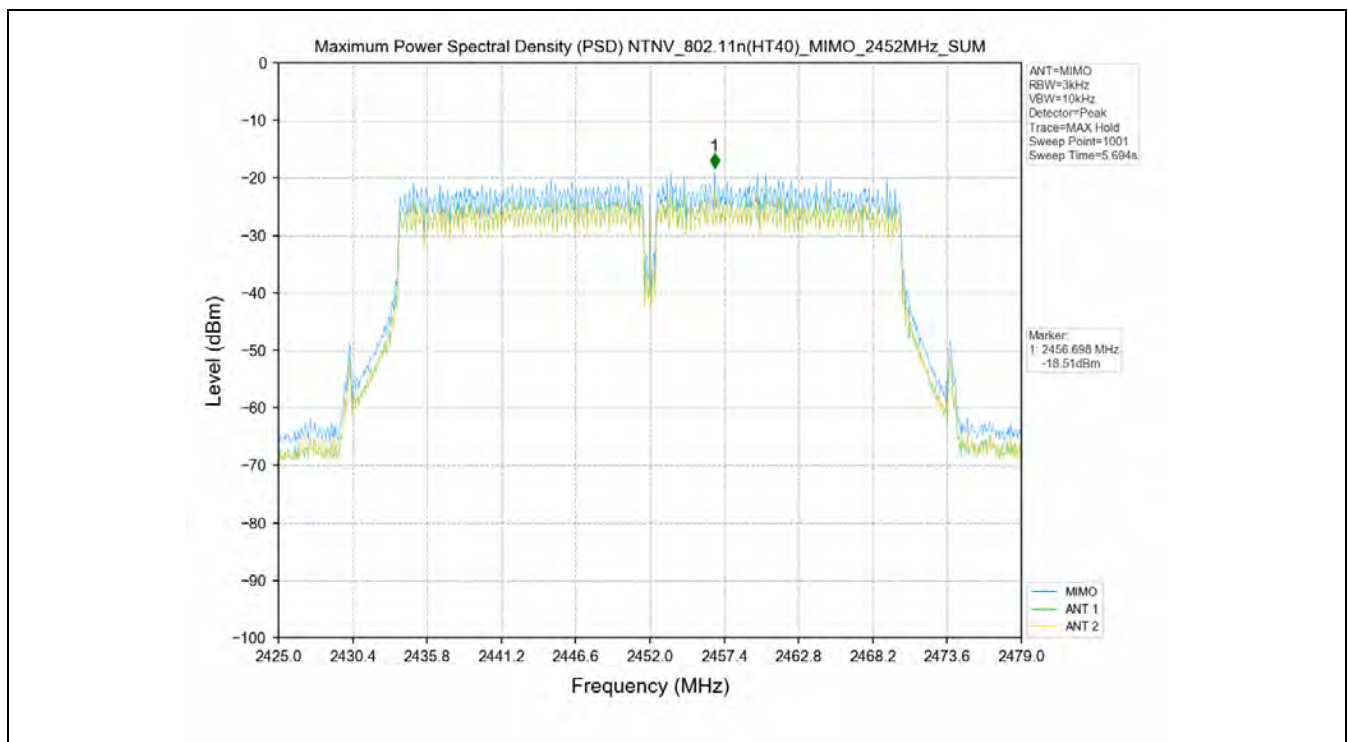
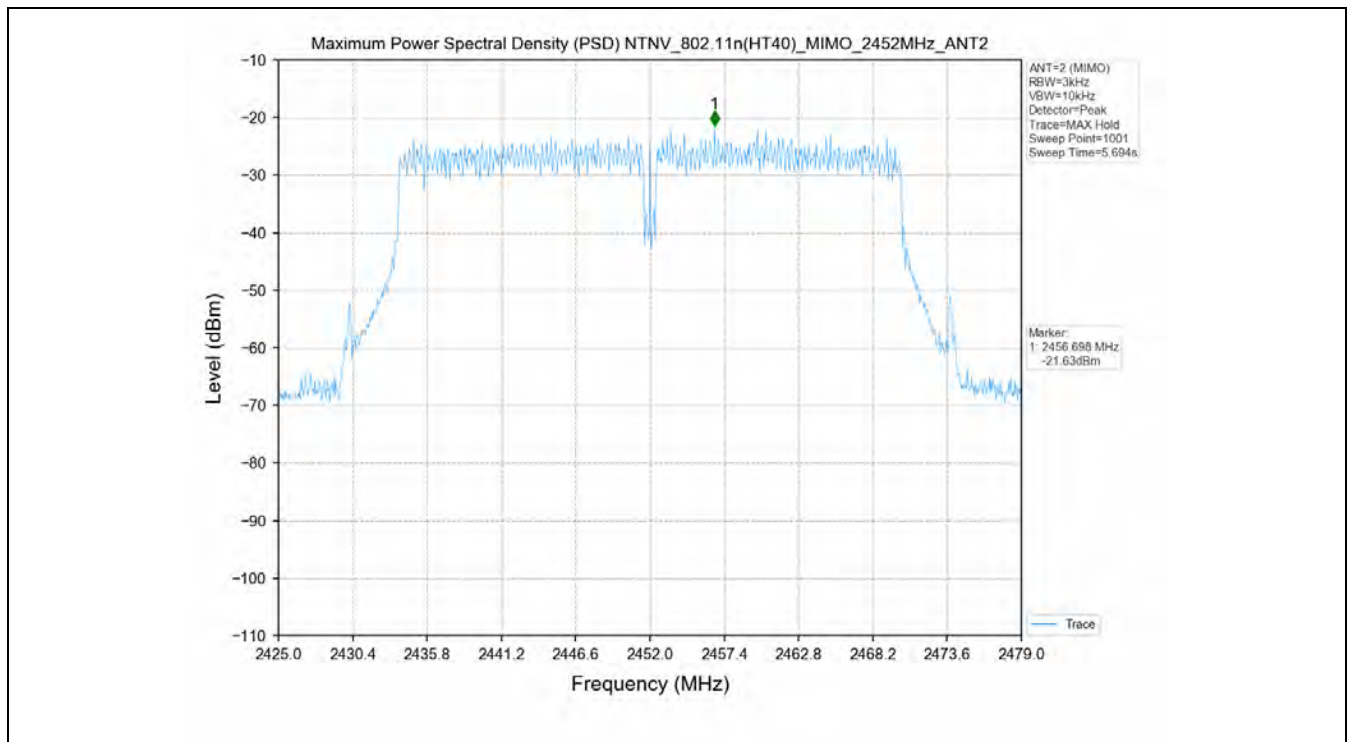














5. Unwanted Emissions in Non-restricted Frequency Bands

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(HT20)	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

