



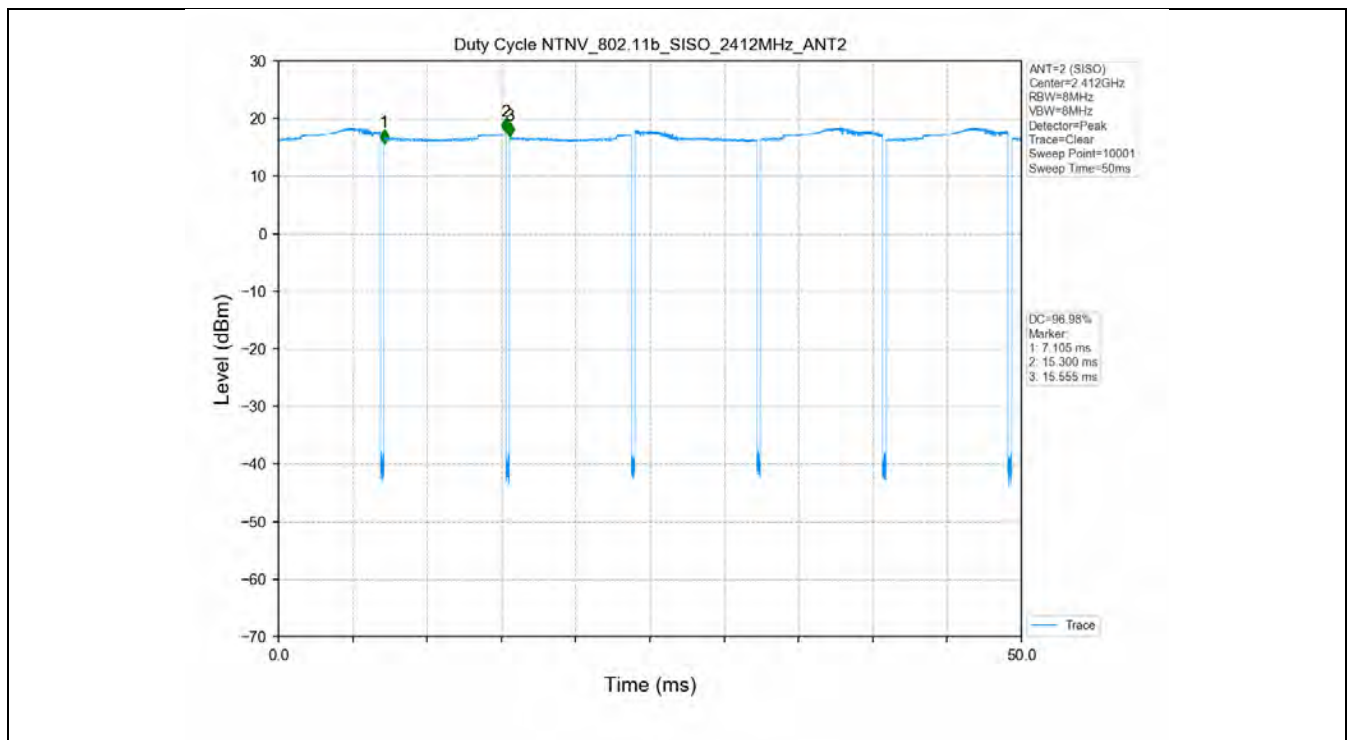
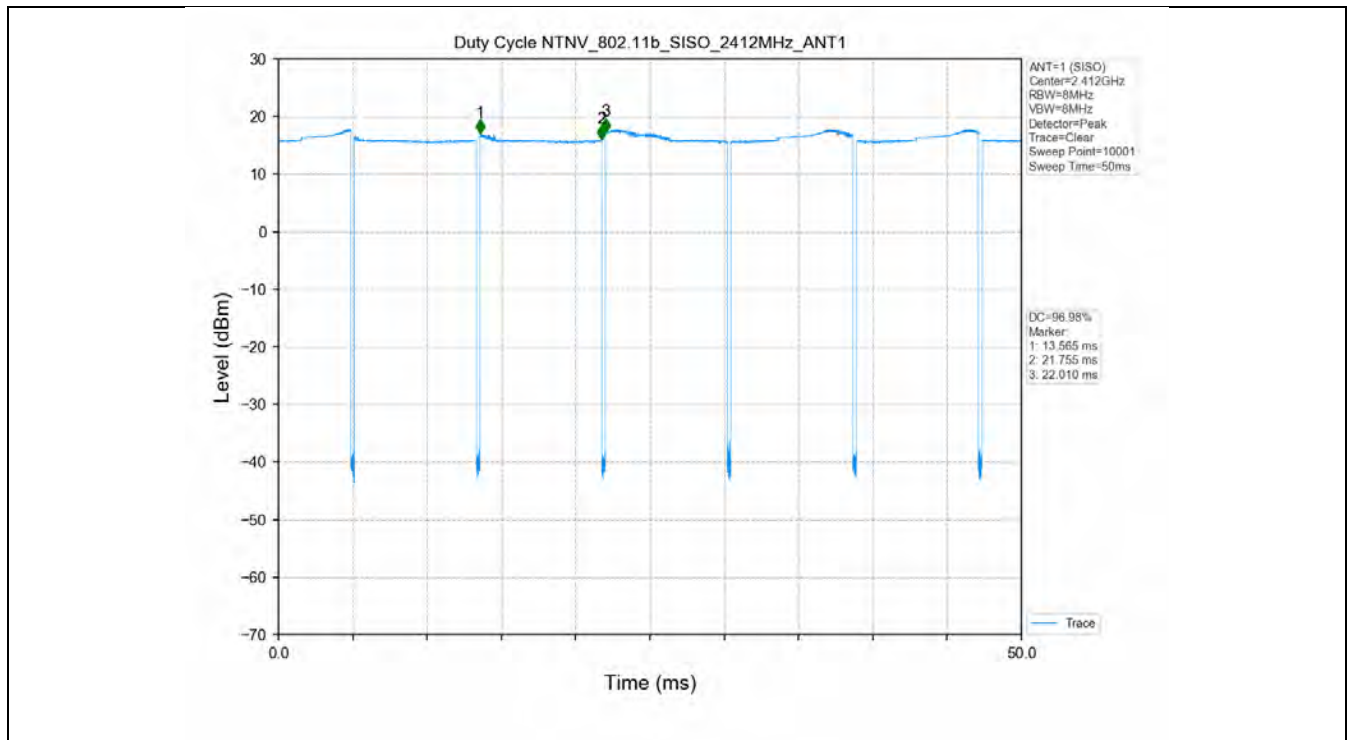
Appendix A for SHEM200700566001

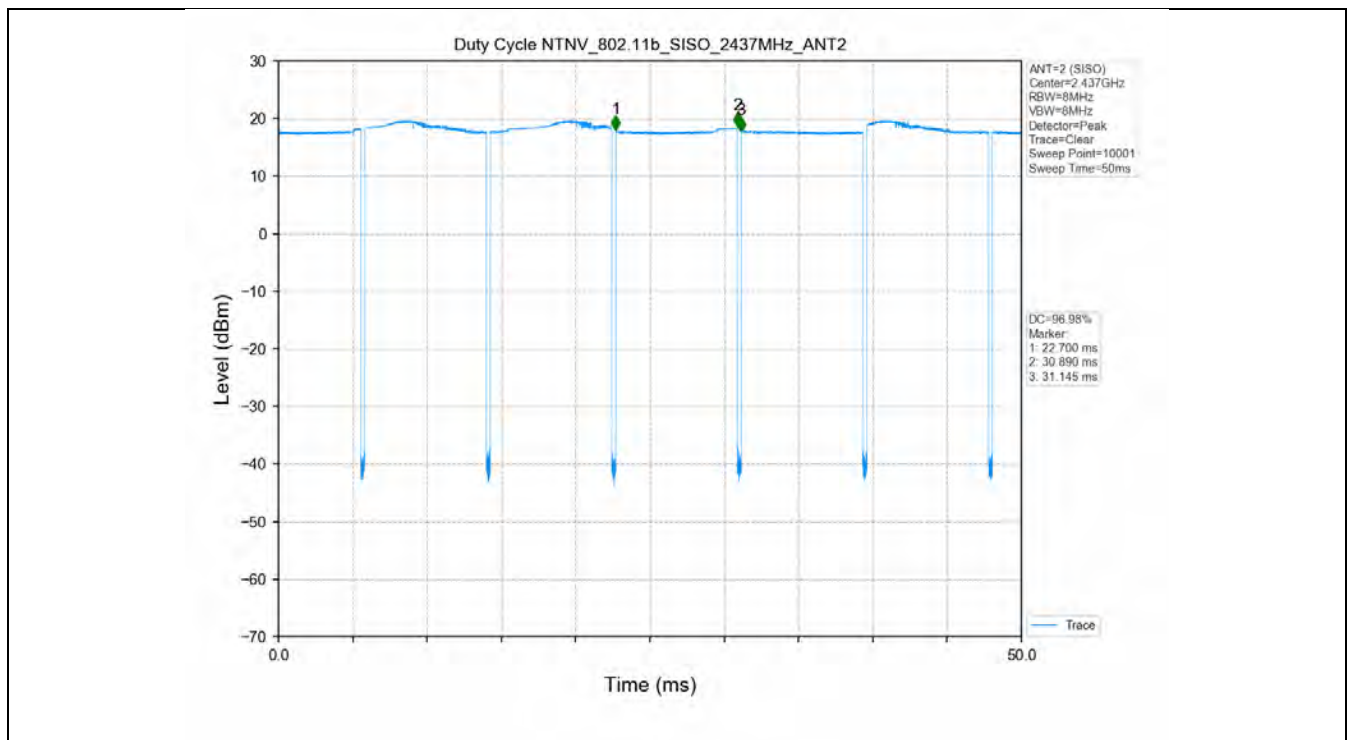
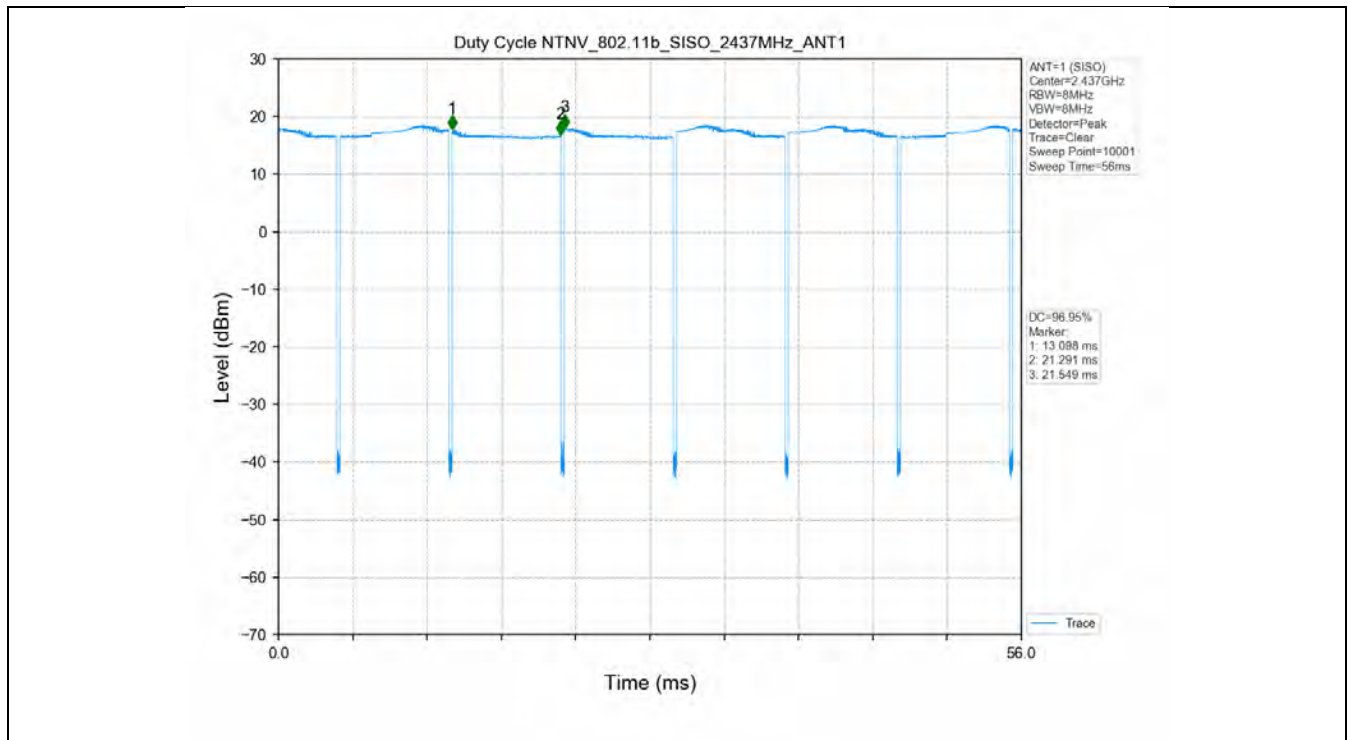
1. Duty Cycle

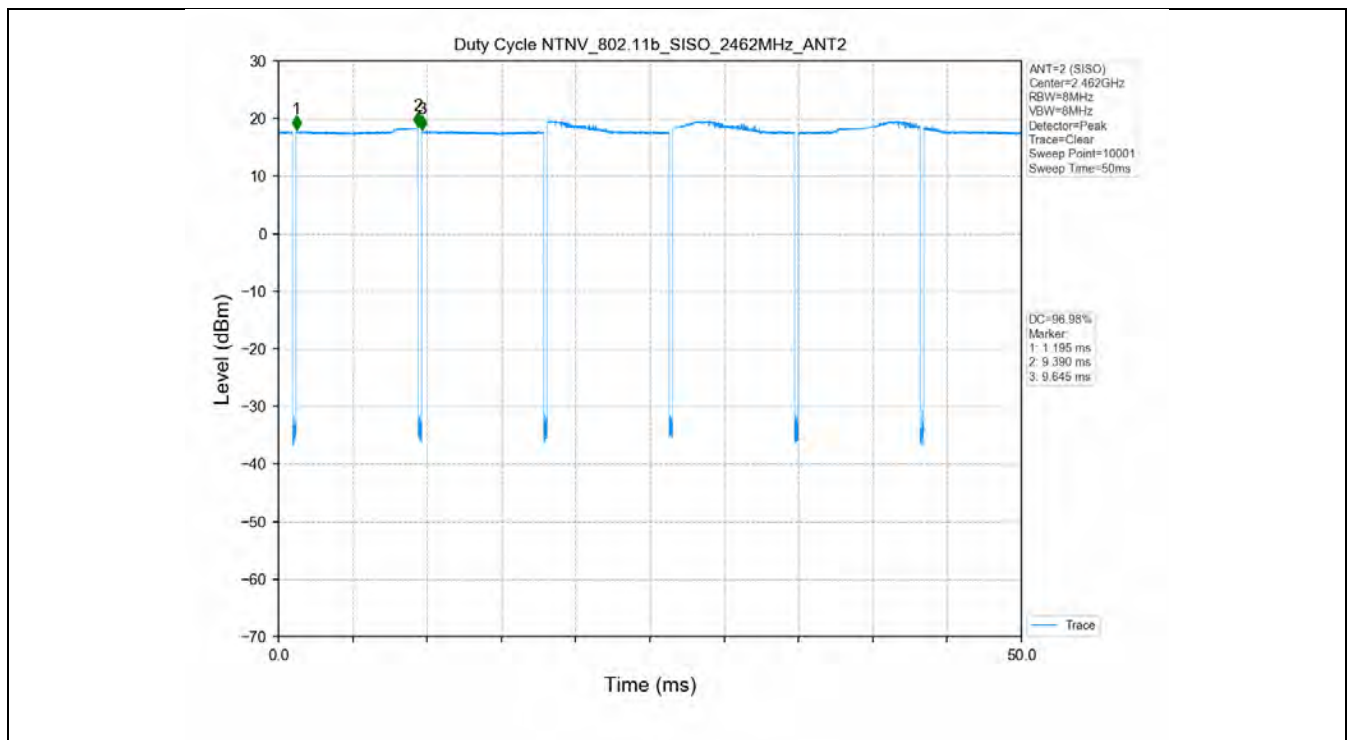
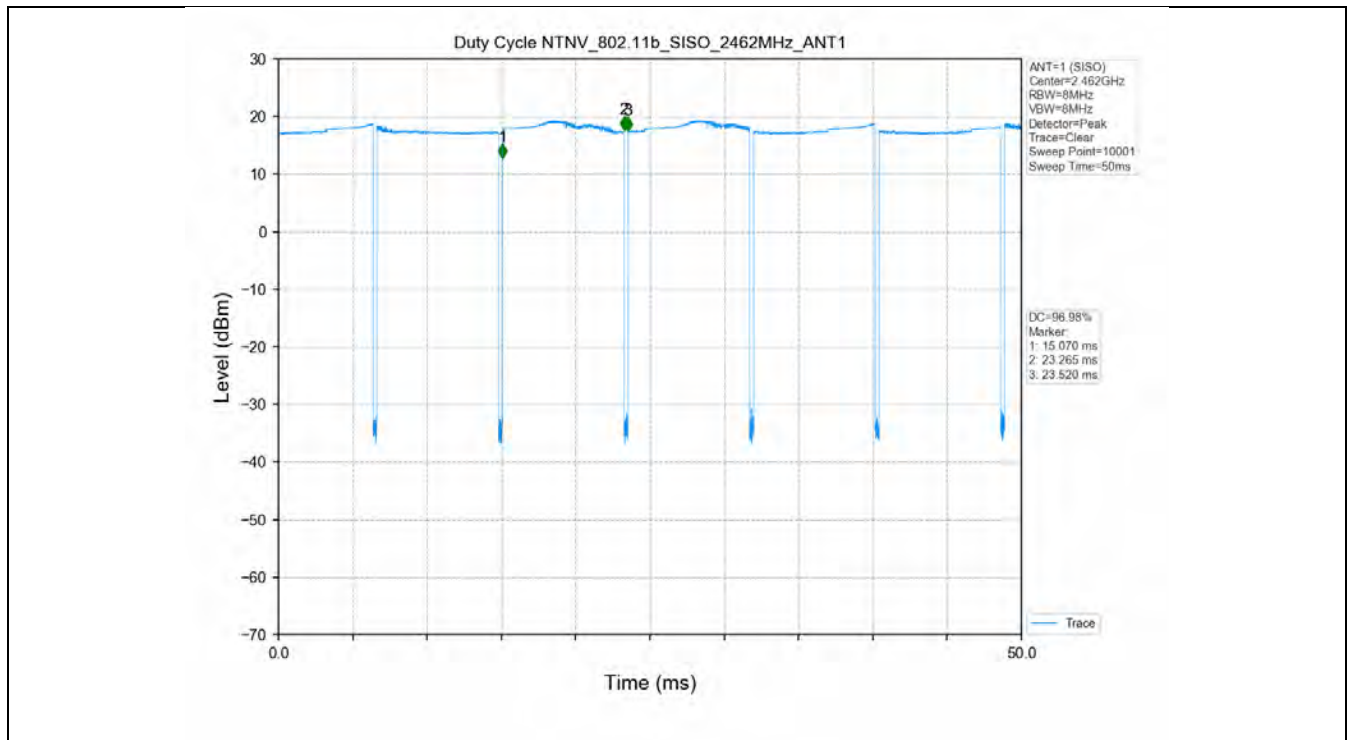
1.1 Test Result

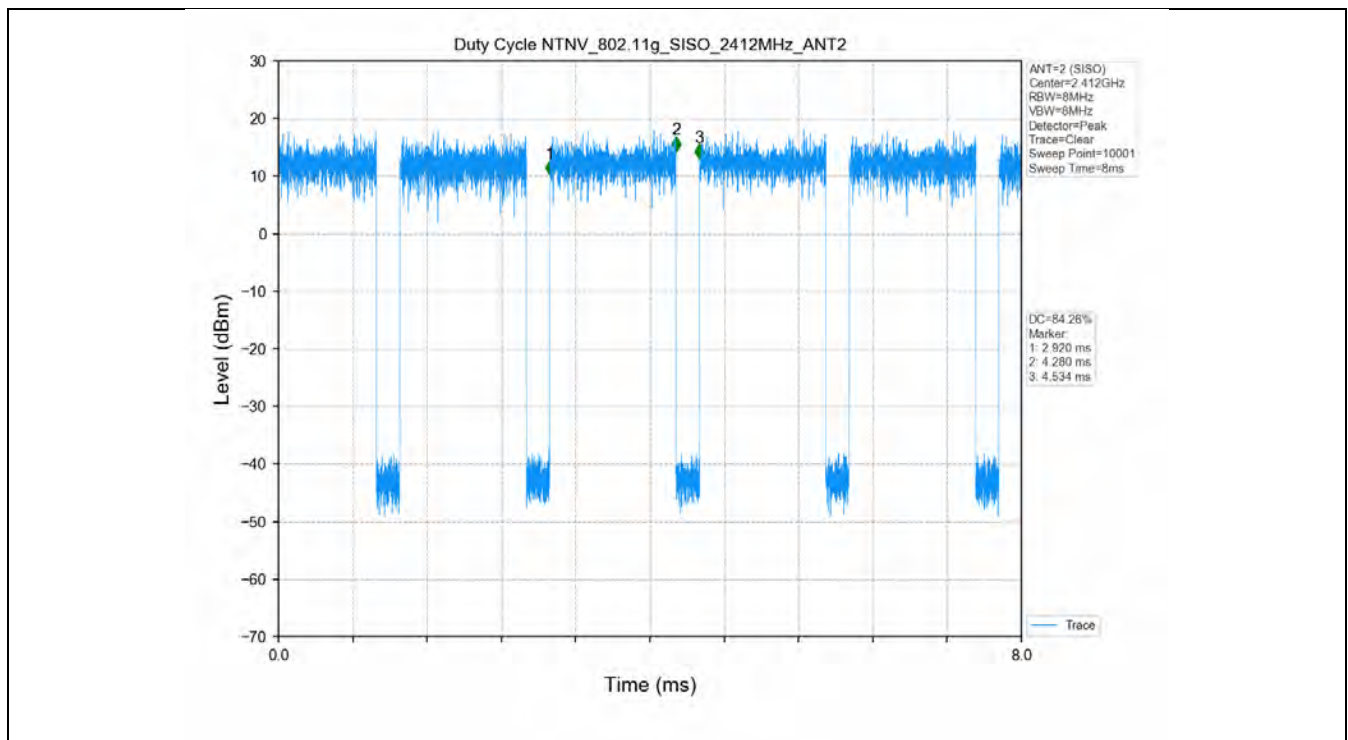
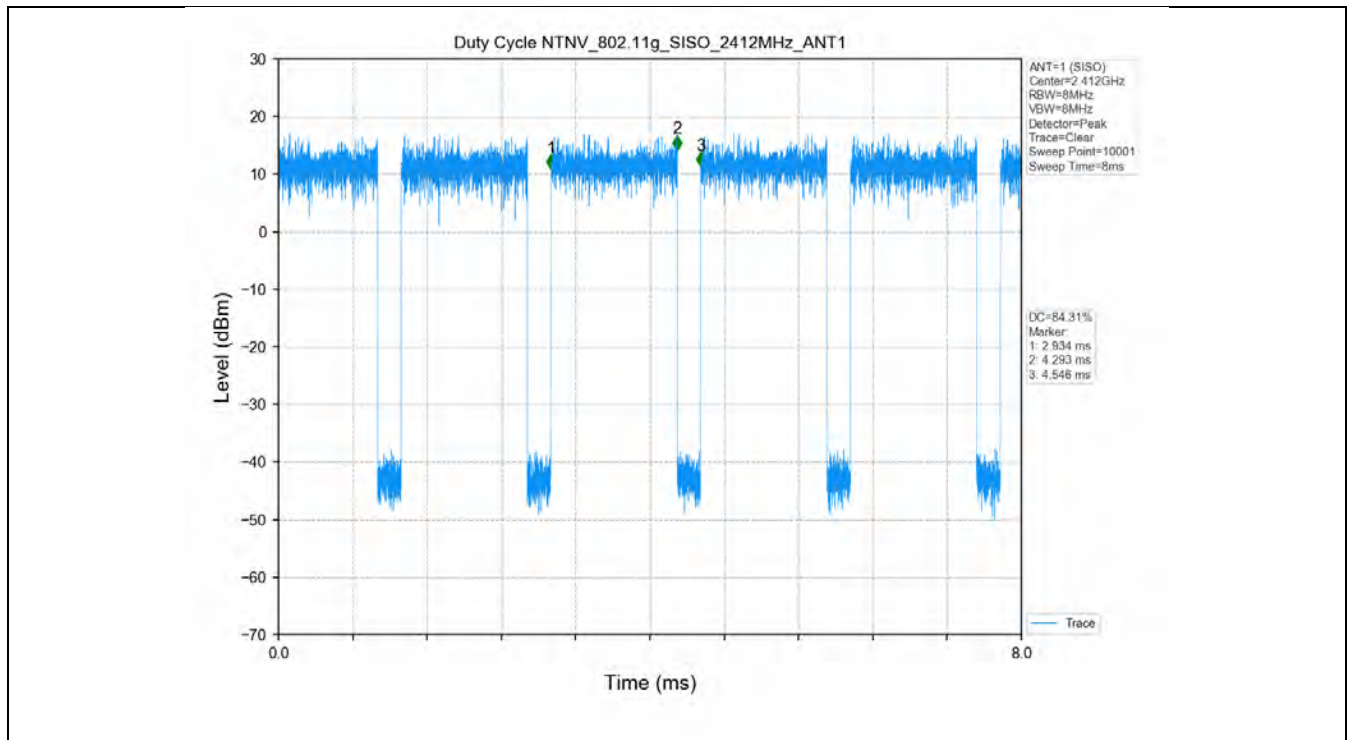
Test Mode	Channel Frequency(M Hz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	8.190	8.445	96.98	0.13
			2	8.195	8.450	96.98	0.13
	2437	SISO	1	8.193	8.451	96.95	0.13
			2	8.190	8.445	96.98	0.13
	2462	SISO	1	8.195	8.450	96.98	0.13
			2	8.195	8.450	96.98	0.13
802.11g	2412	SISO	1	1.359	1.612	84.31	0.74
			2	1.360	1.614	84.26	0.74
	2437	SISO	1	1.360	1.614	84.26	0.74
			2	1.360	1.613	84.31	0.74
	2462	SISO	1	1.360	1.613	84.31	0.74
			2	1.360	1.613	84.31	0.74
802.11n(HT20)	2412	MIMO	1	1.272	1.526	83.36	0.79
			2	1.271	1.525	83.34	0.79
	2437	MIMO	1	1.272	1.526	83.36	0.79
			2	1.272	1.525	83.41	0.79
	2462	MIMO	1	1.272	1.525	83.41	0.79
			2	1.272	1.526	83.36	0.79
802.11n(HT40)	2422	MIMO	1	0.631	0.884	71.38	1.46
			2	0.632	0.886	71.33	1.47
	2437	MIMO	1	0.632	0.885	71.41	1.46
			2	0.632	0.886	71.33	1.47
	2452	MIMO	1	0.632	0.886	71.33	1.47
			2	0.632	0.886	71.33	1.47

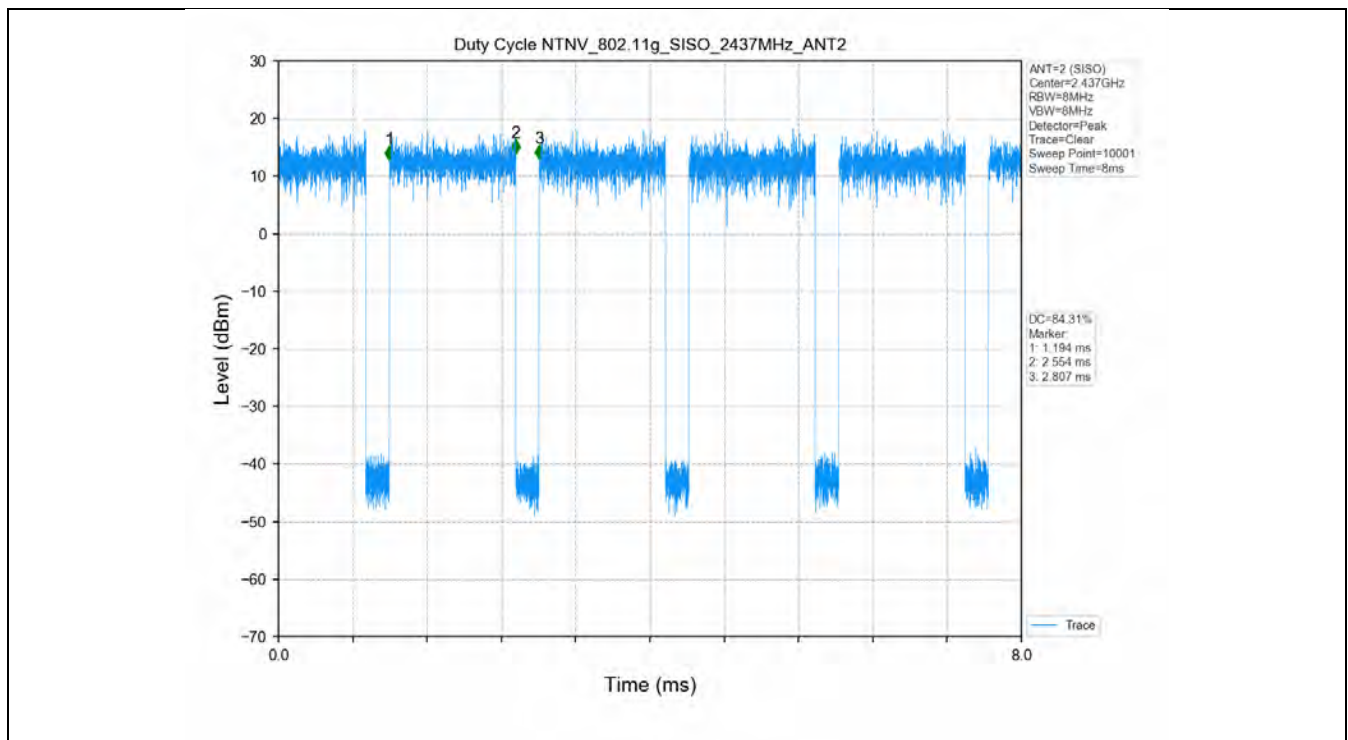
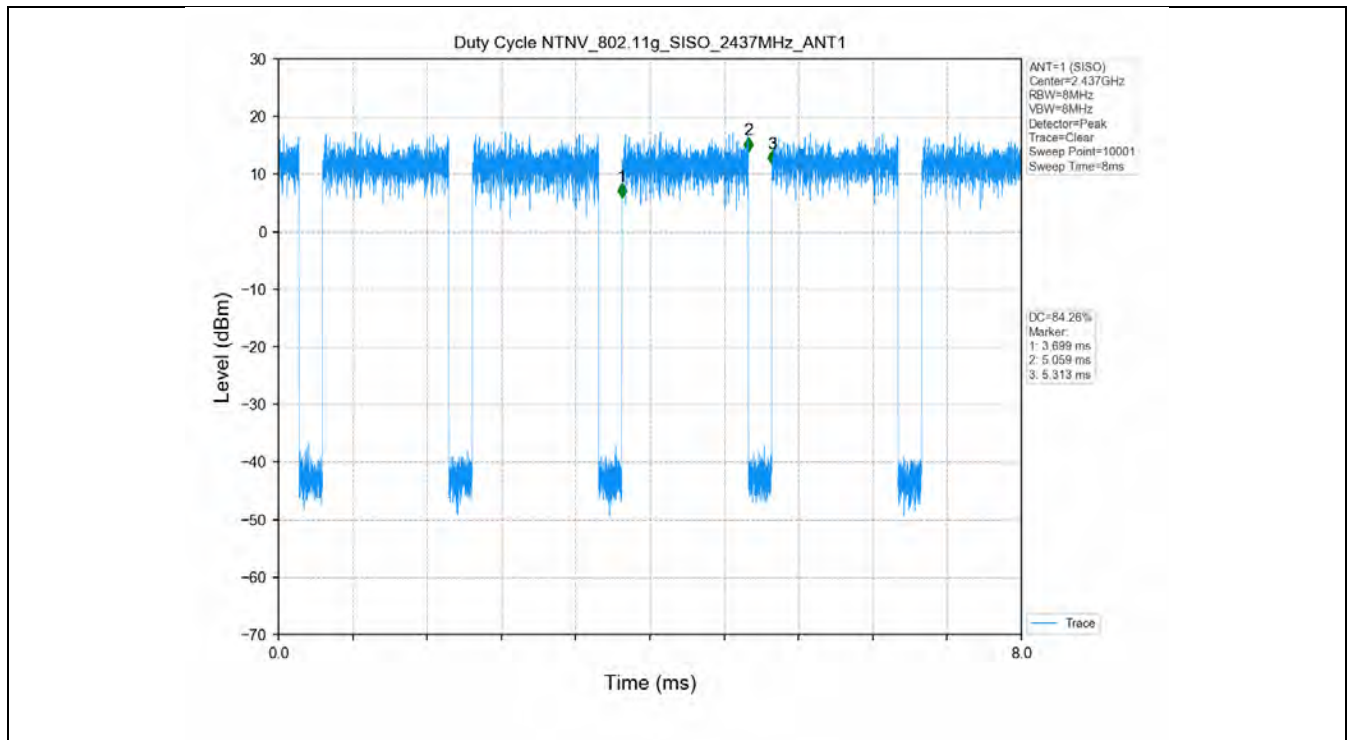
1.2 Test Graph

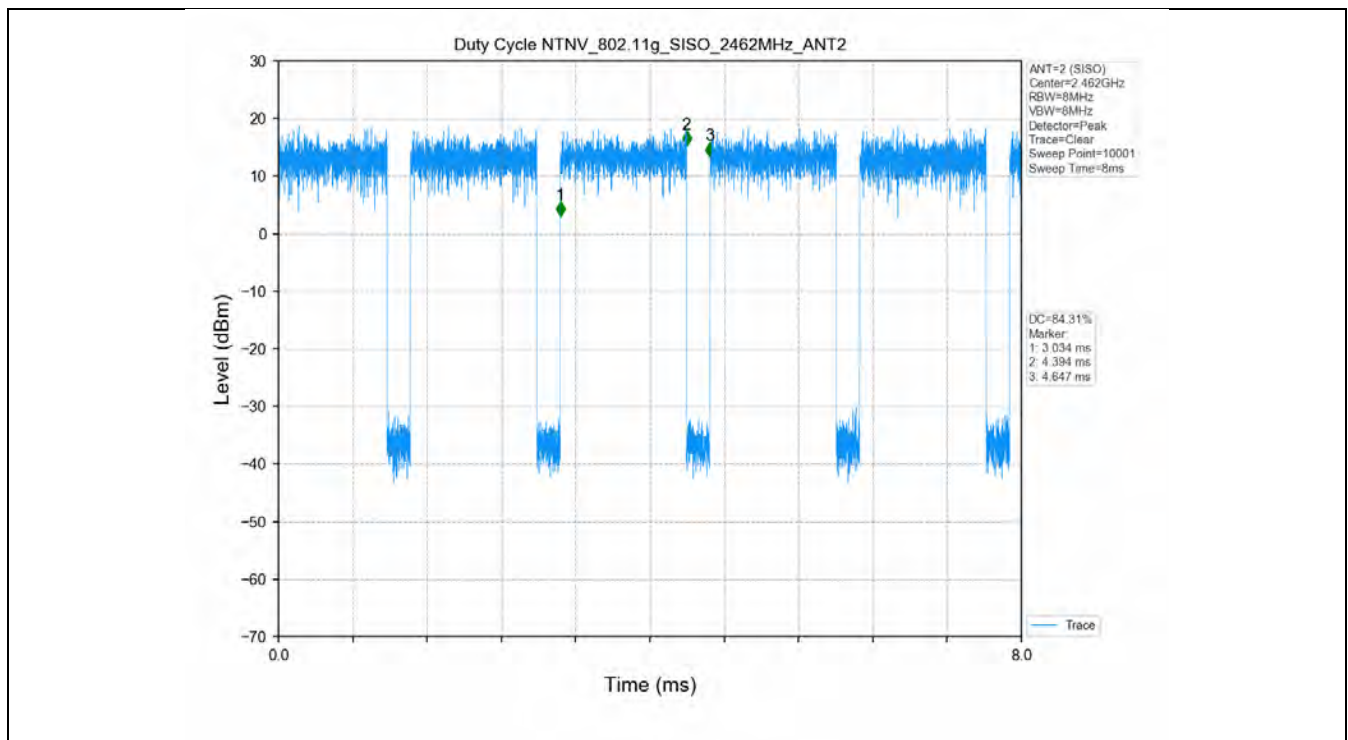
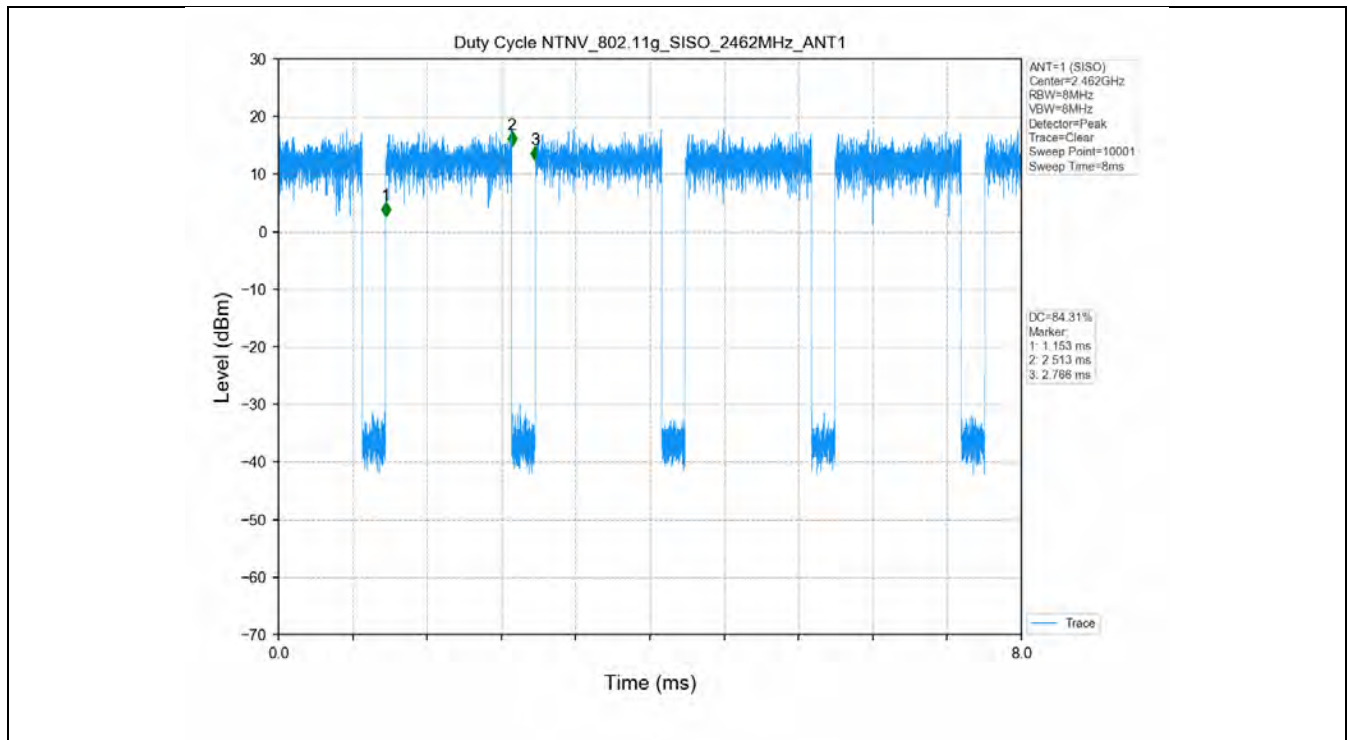


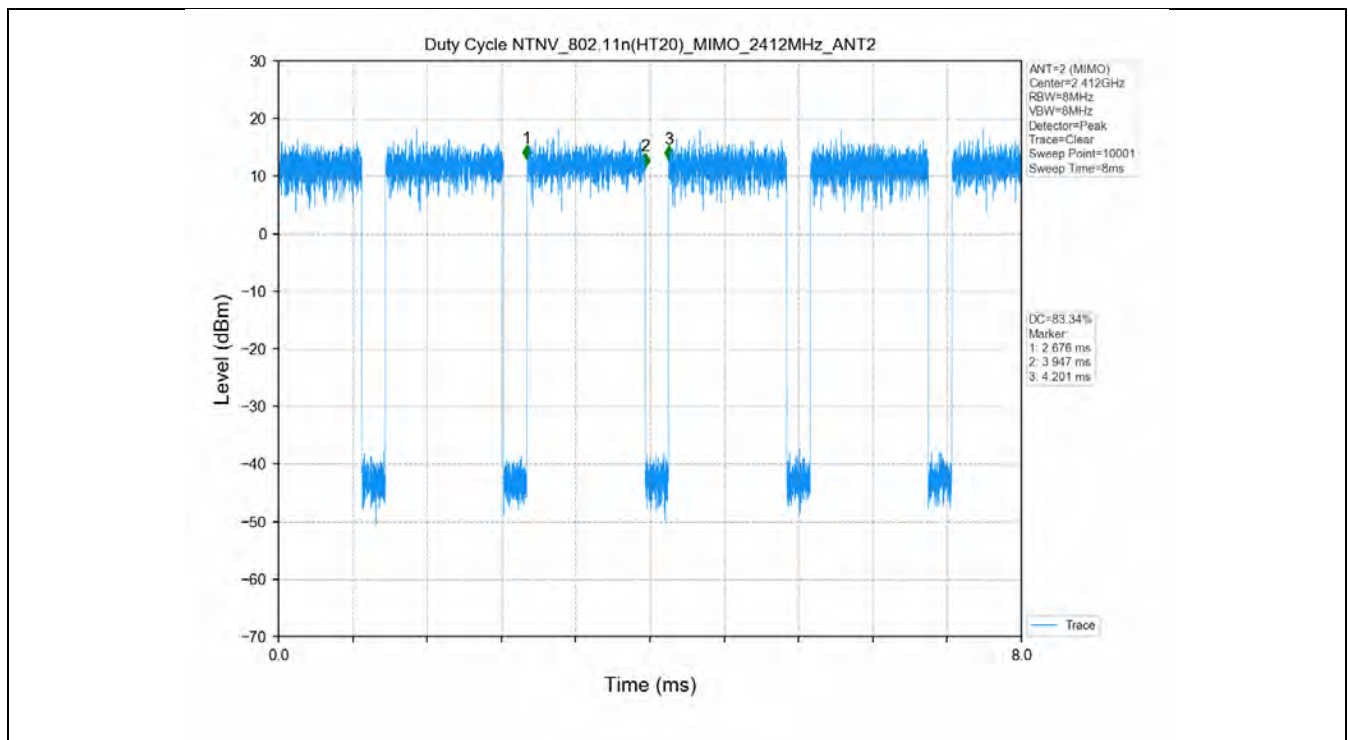
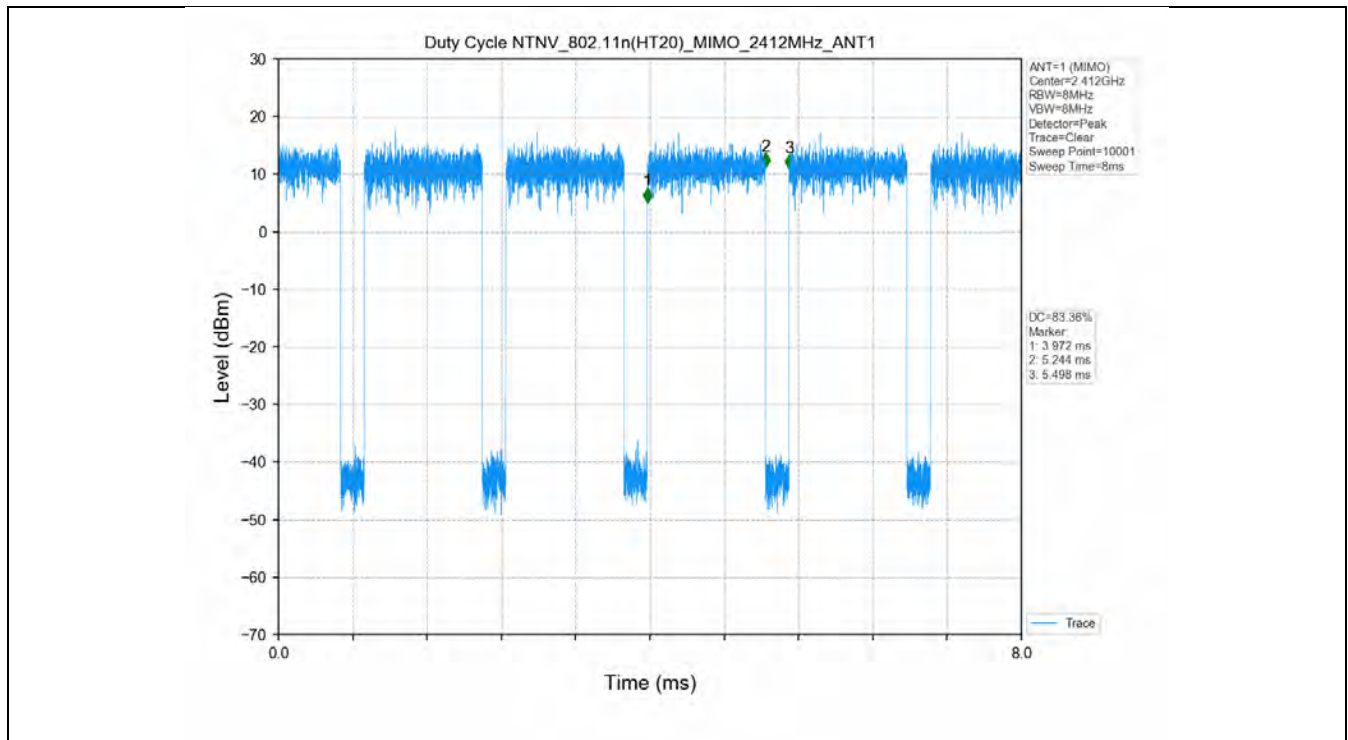


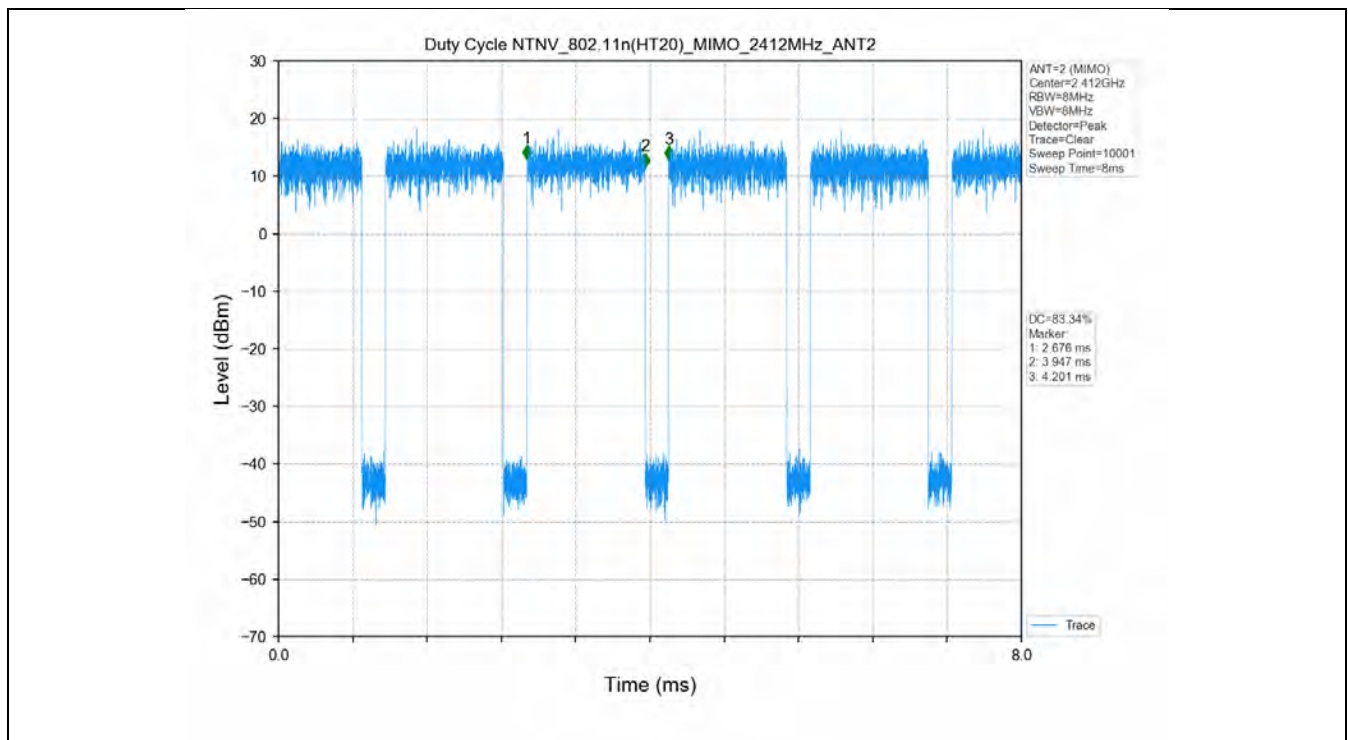
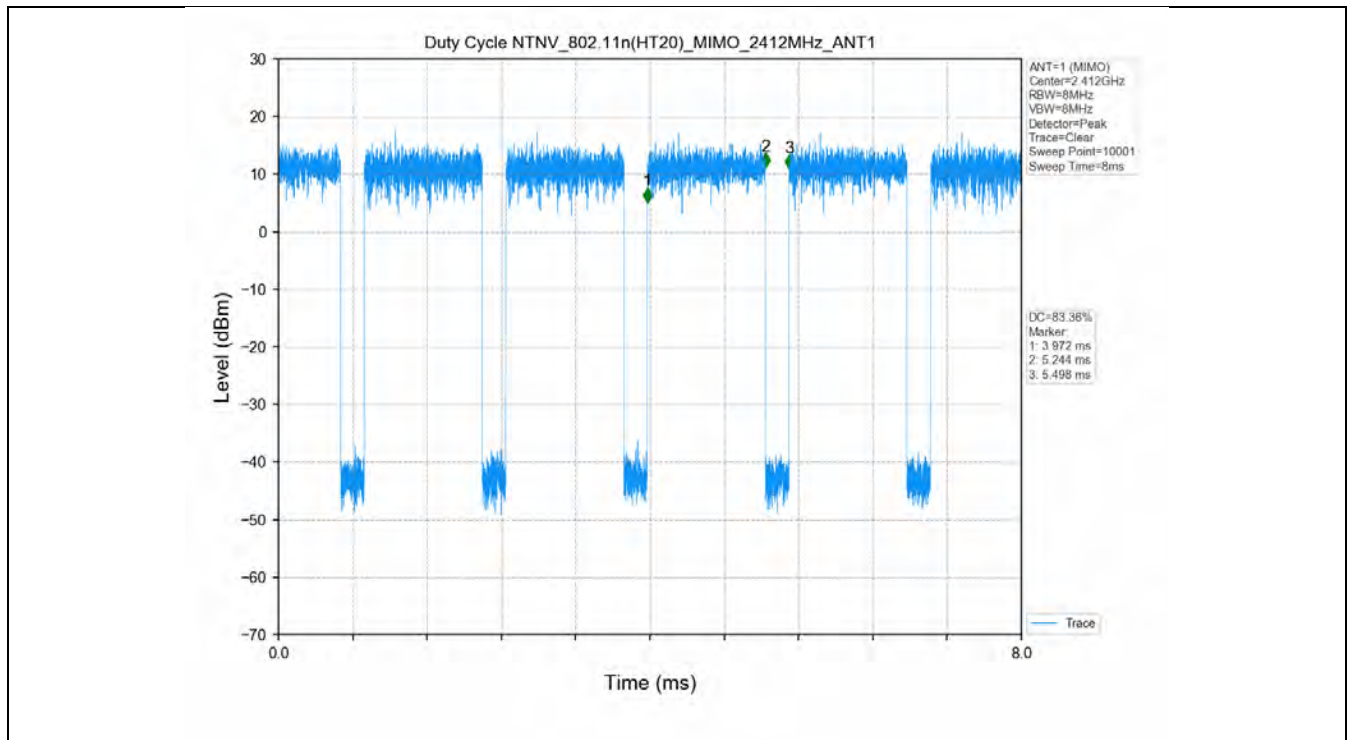


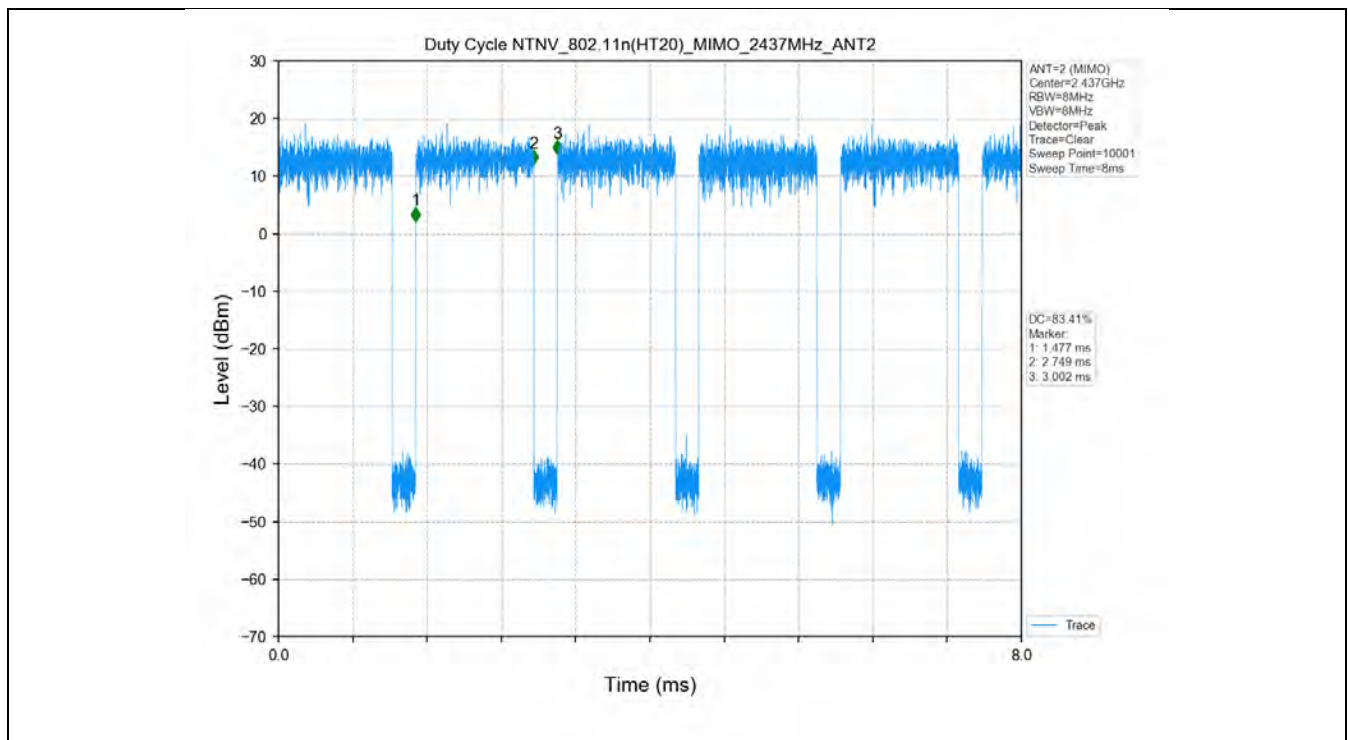
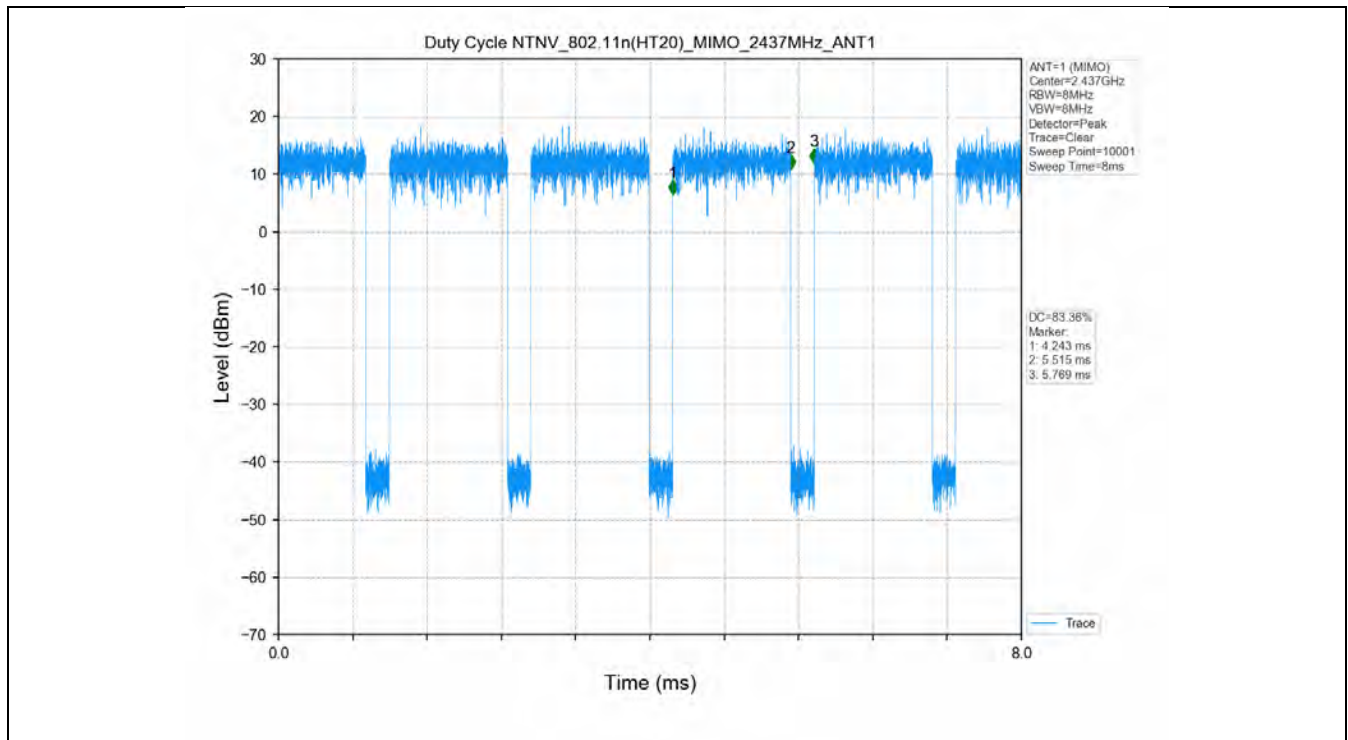


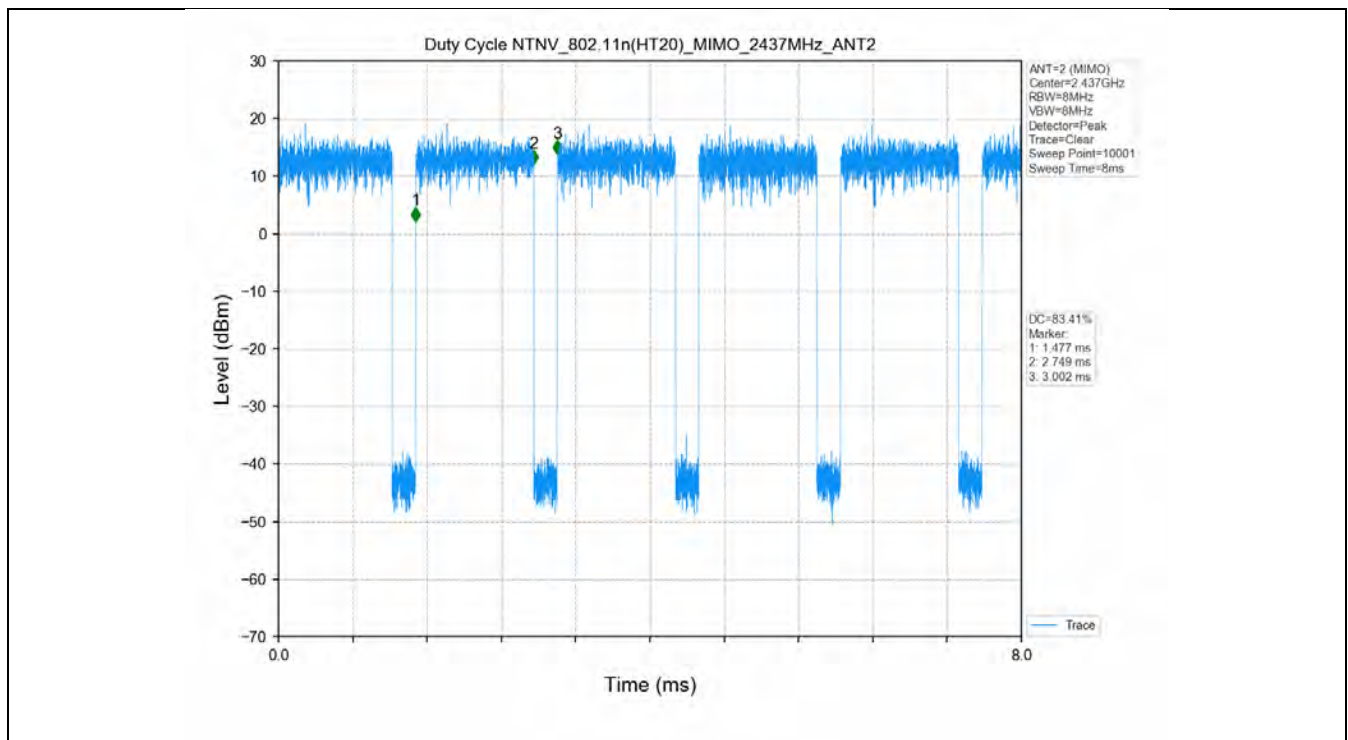
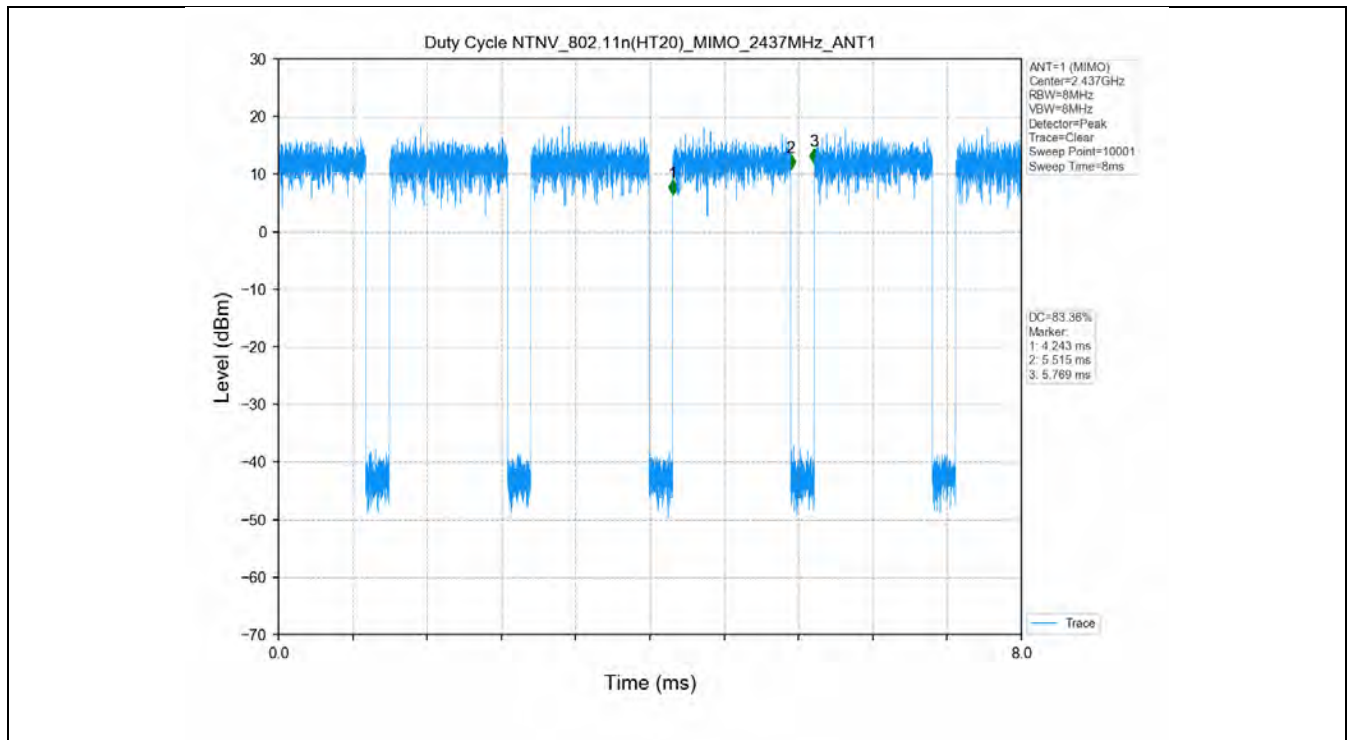


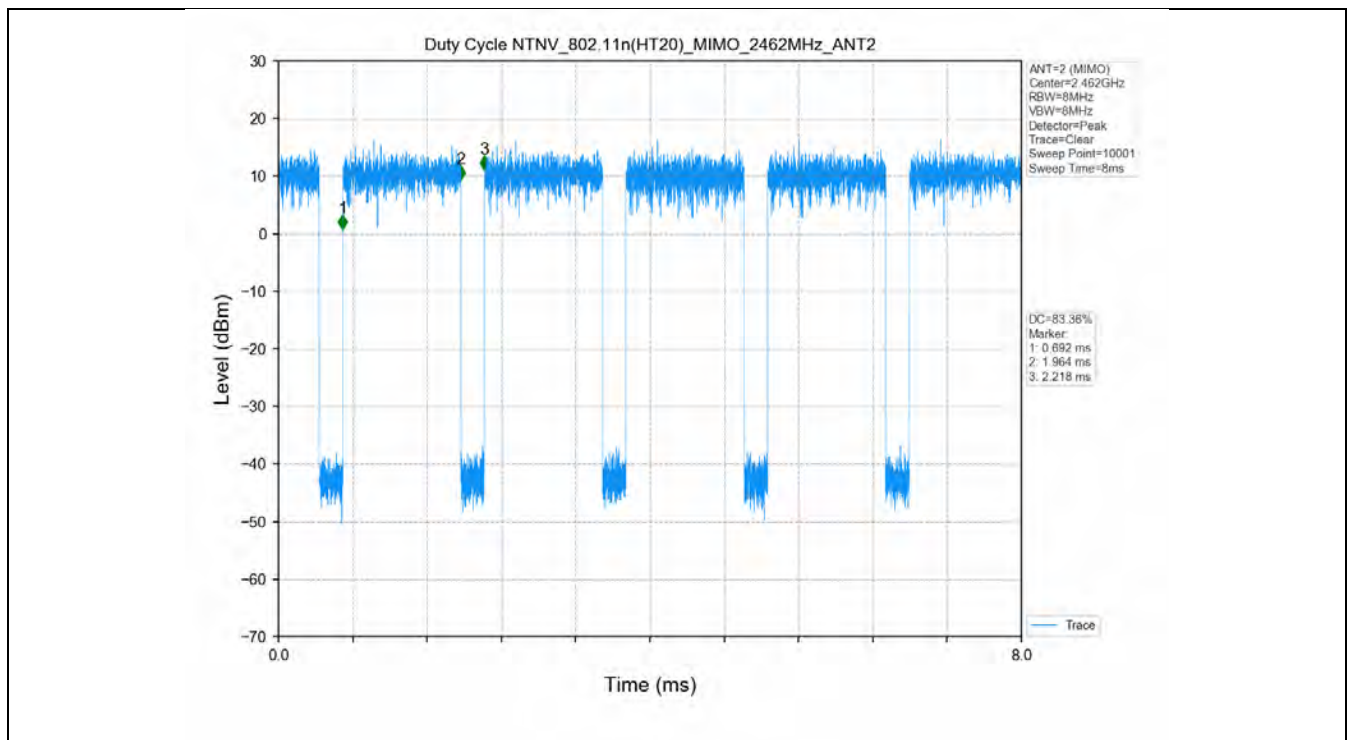
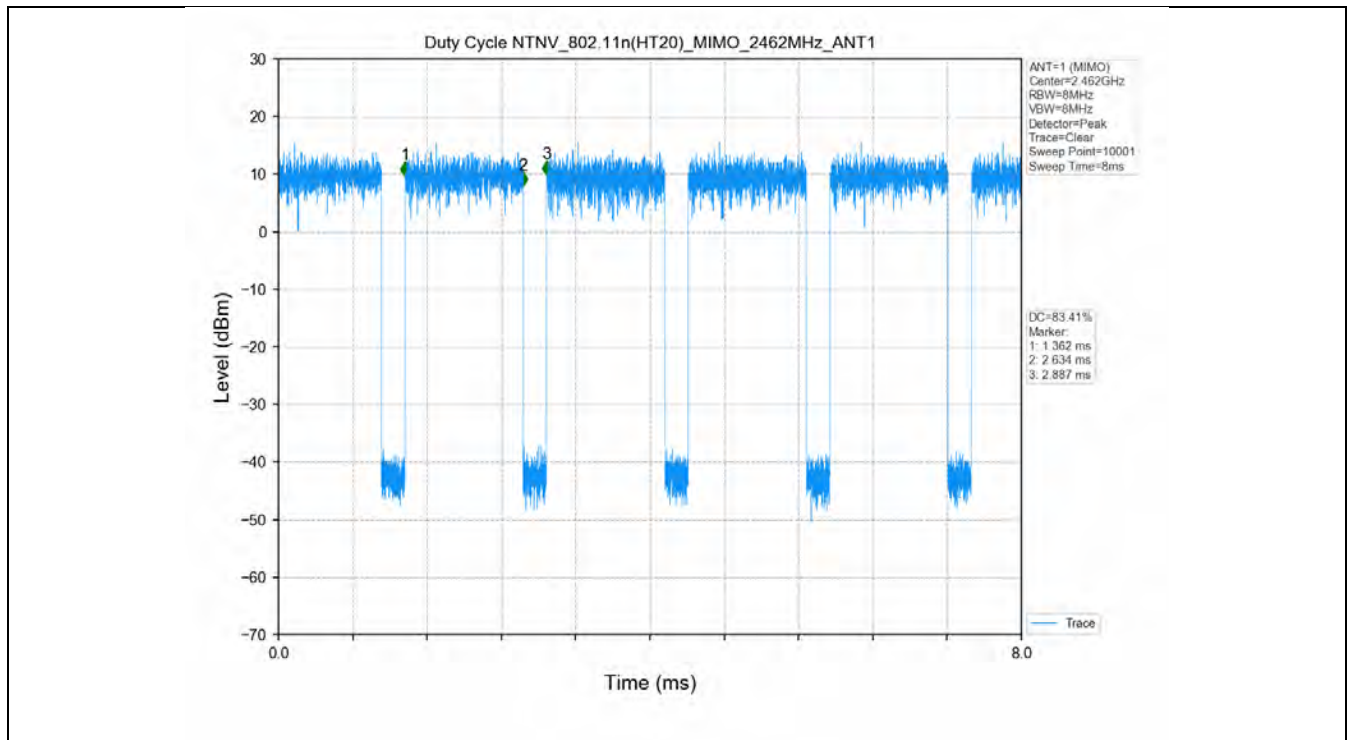


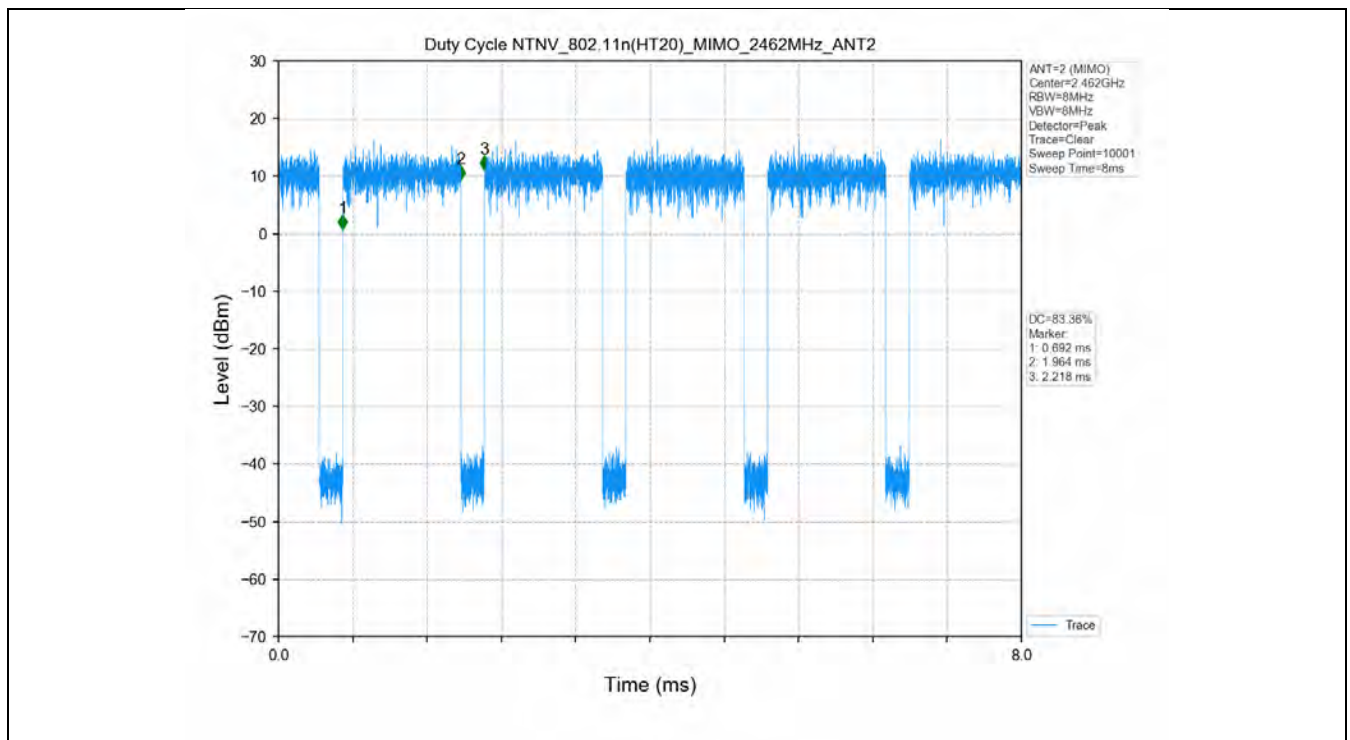
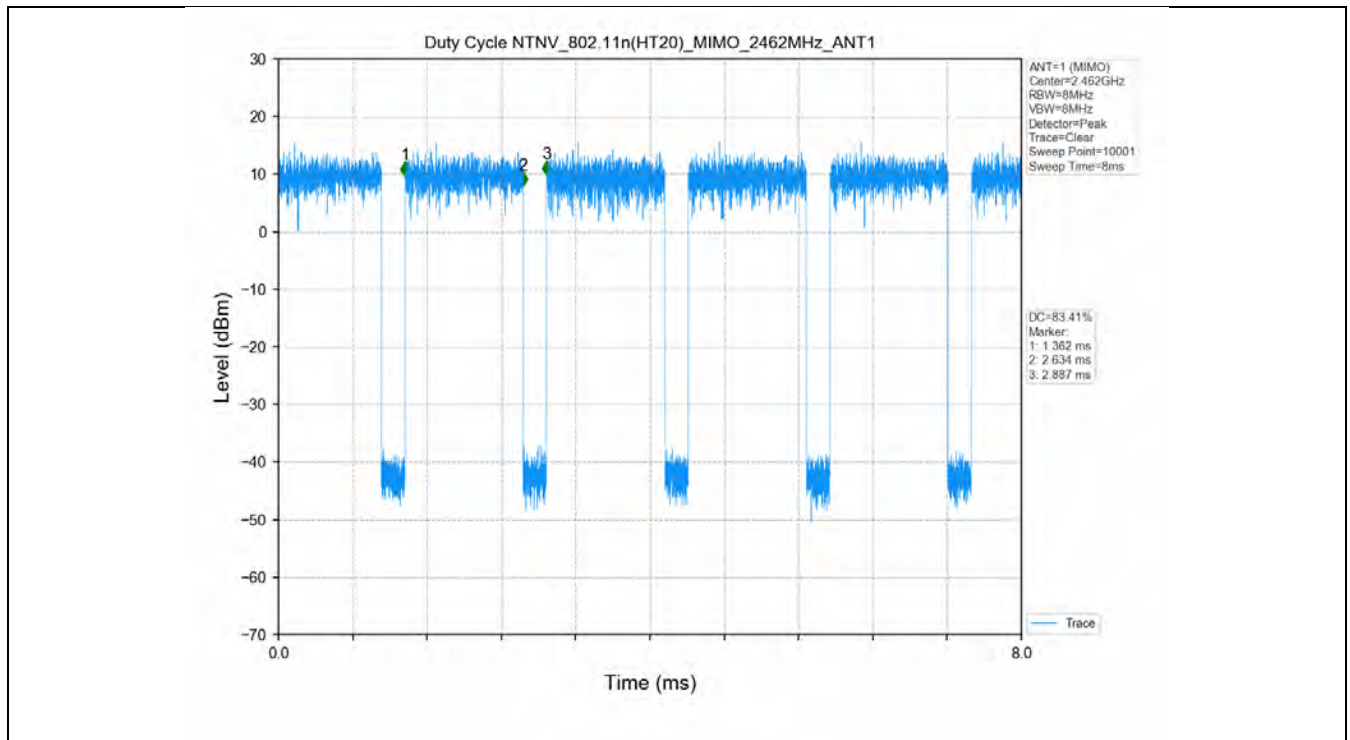


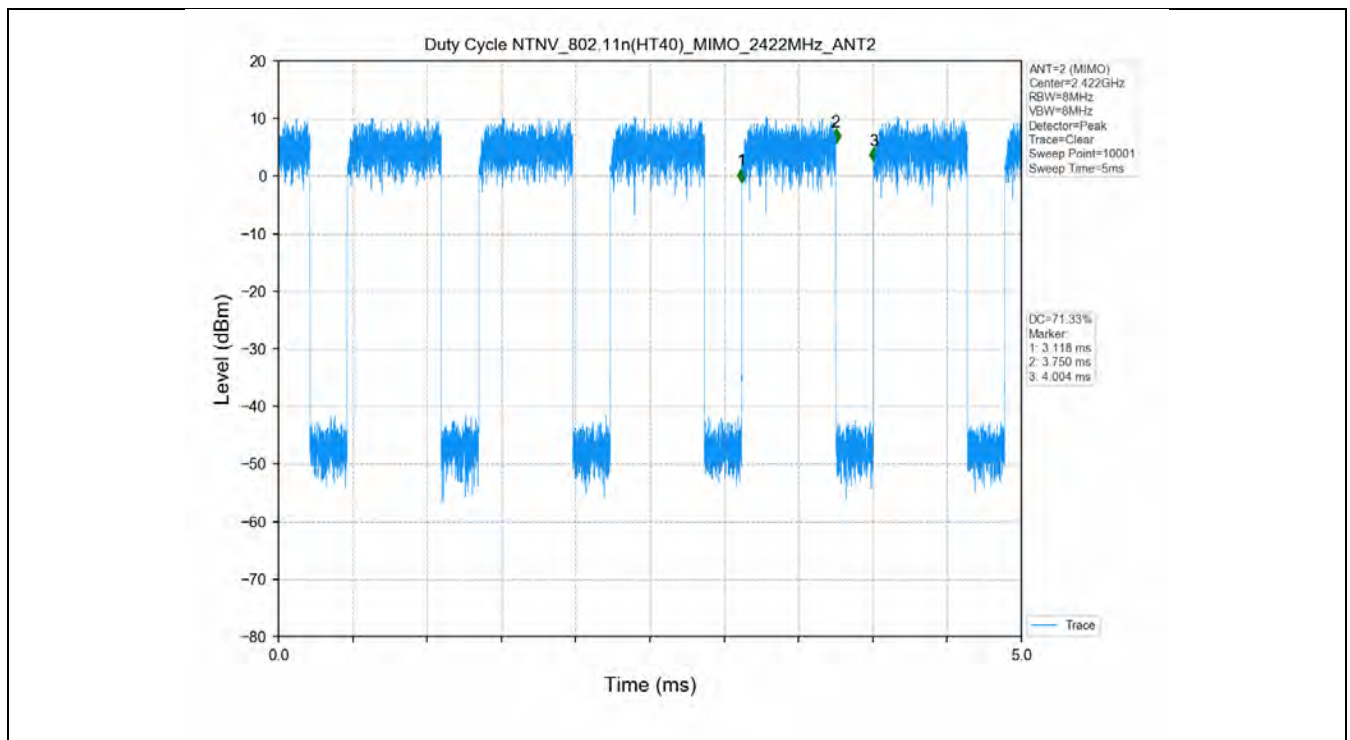
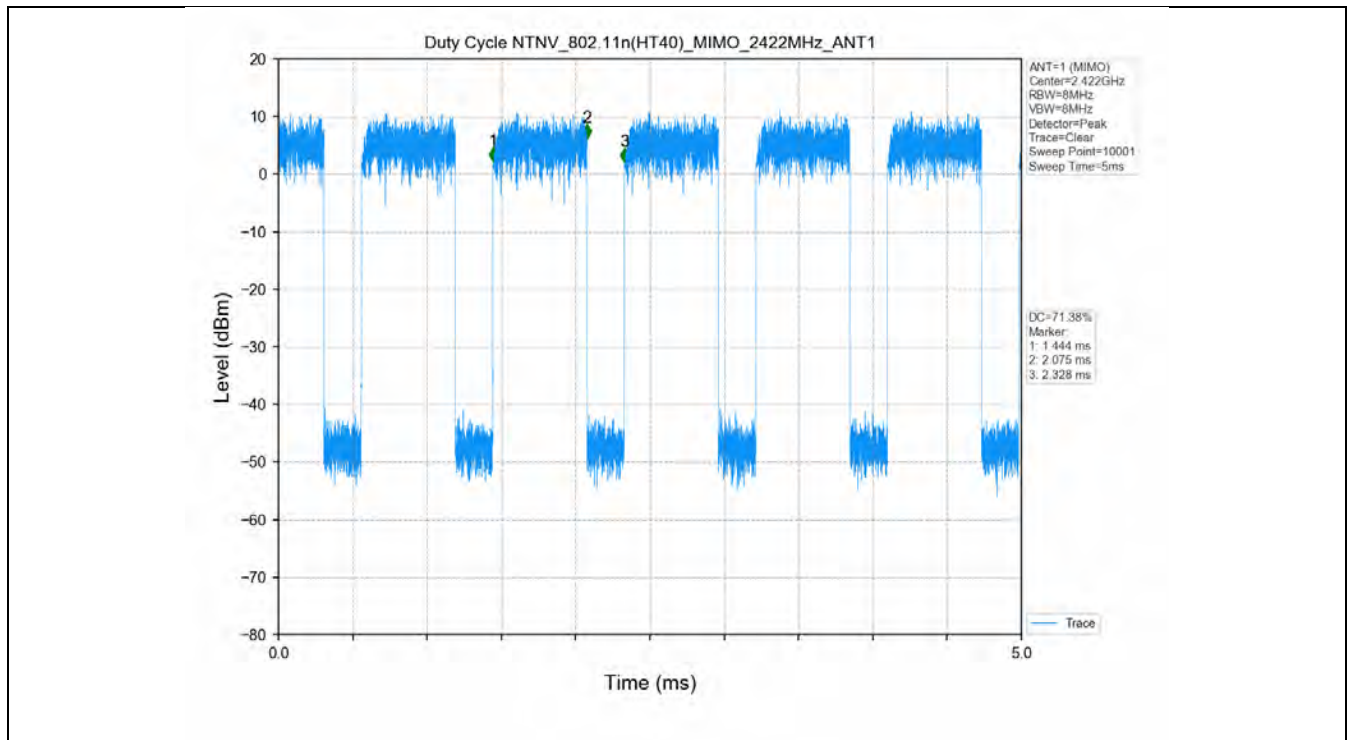


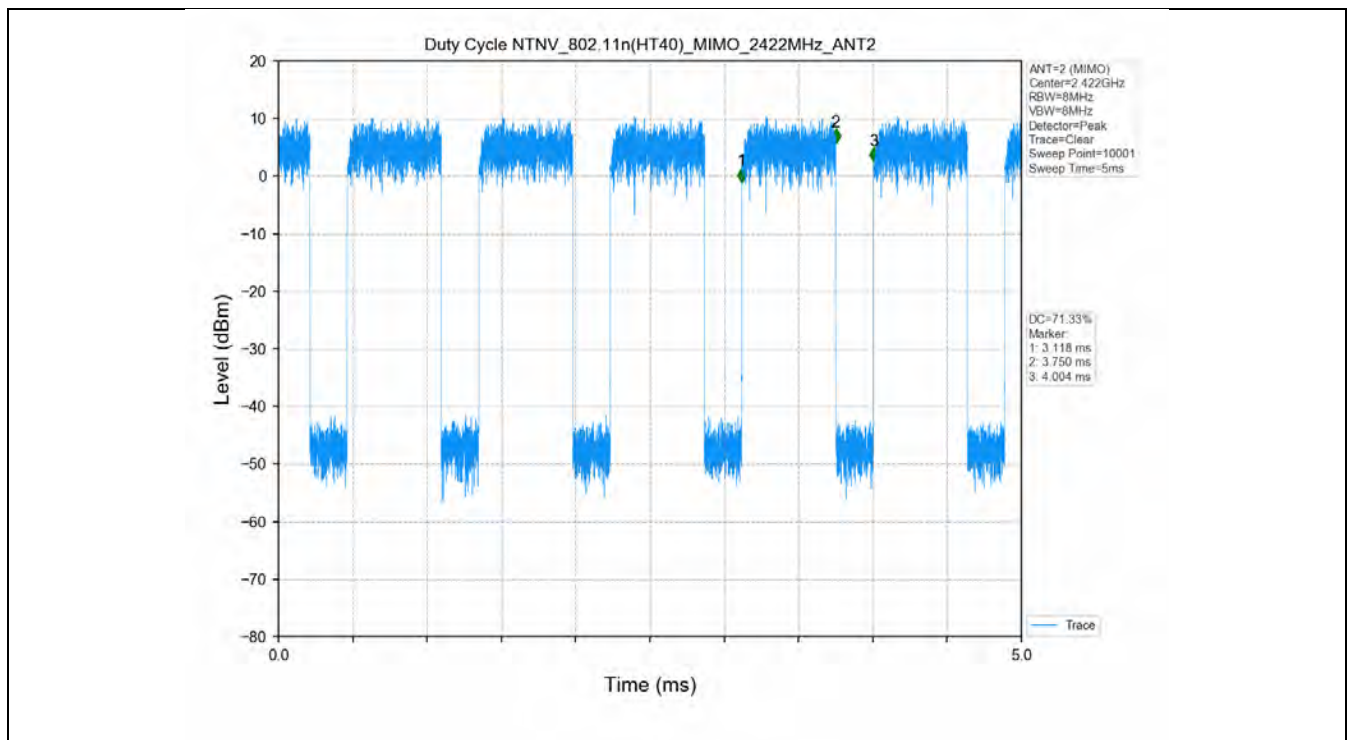
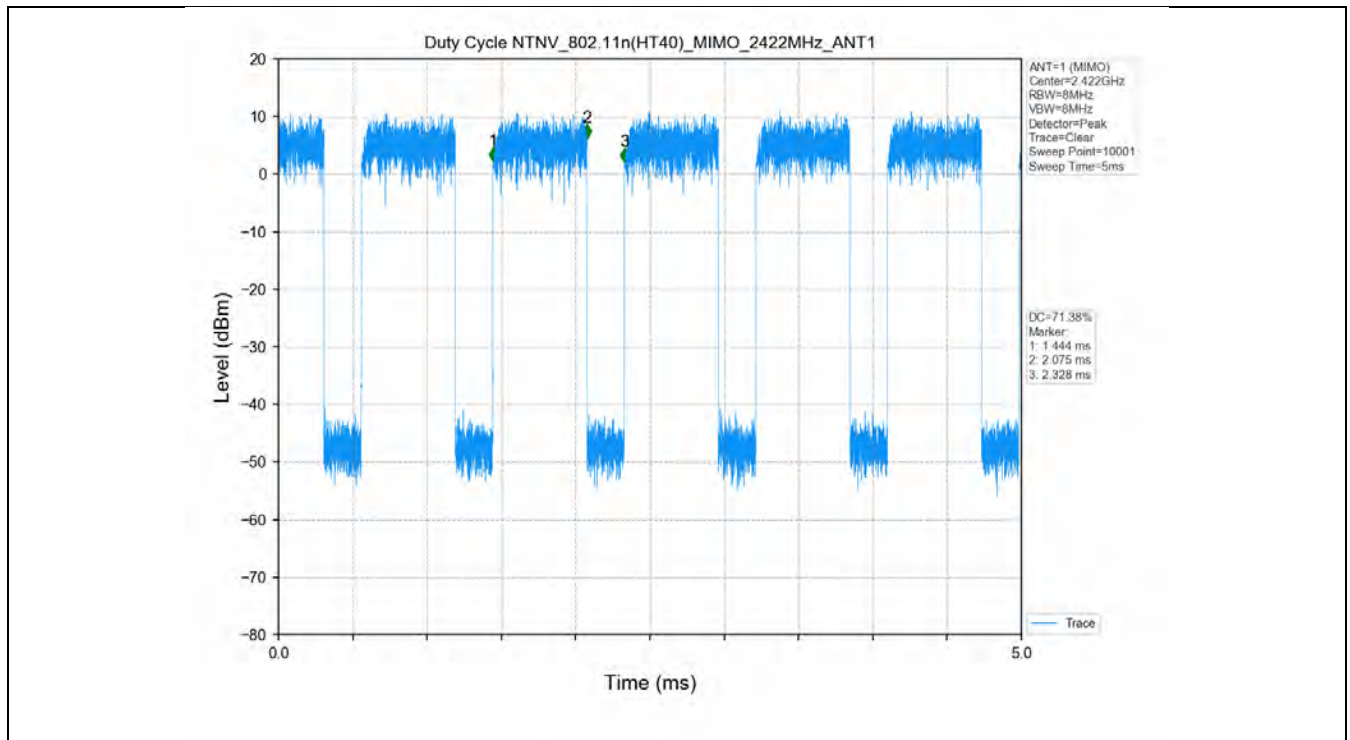


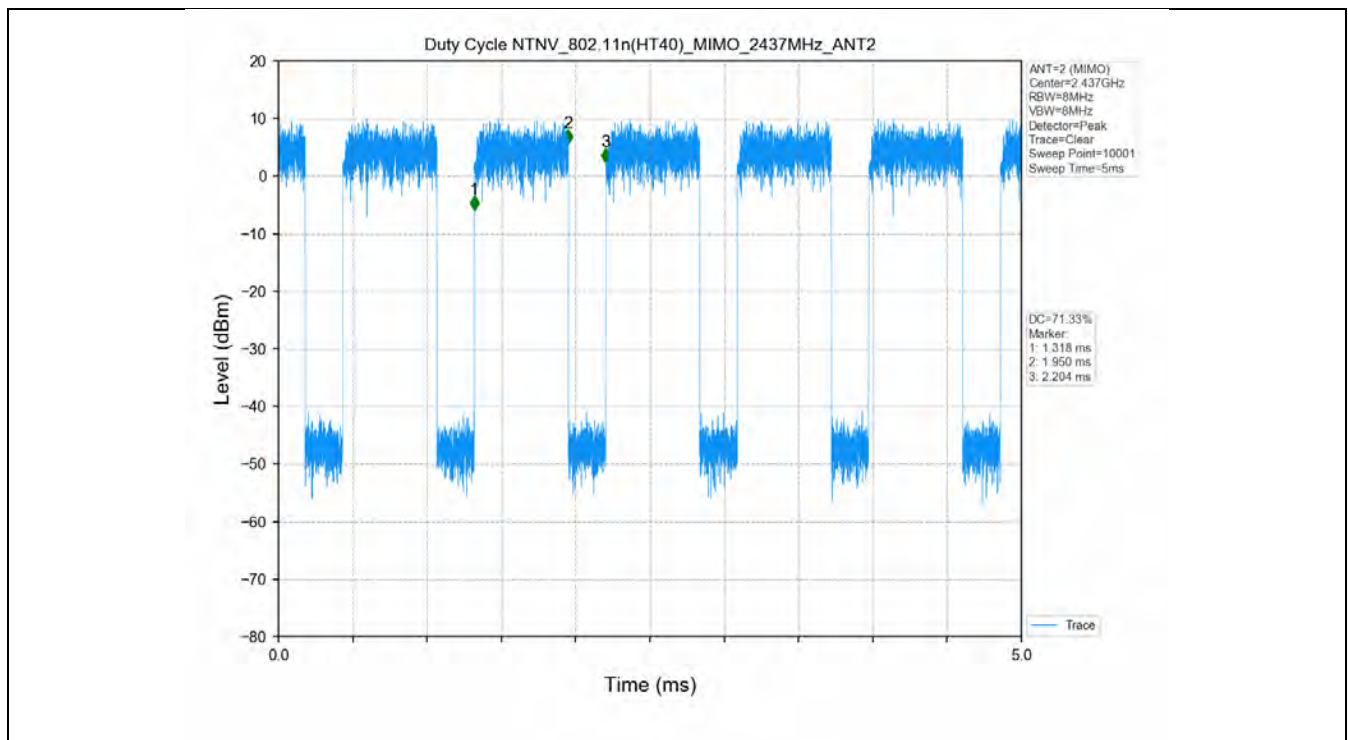
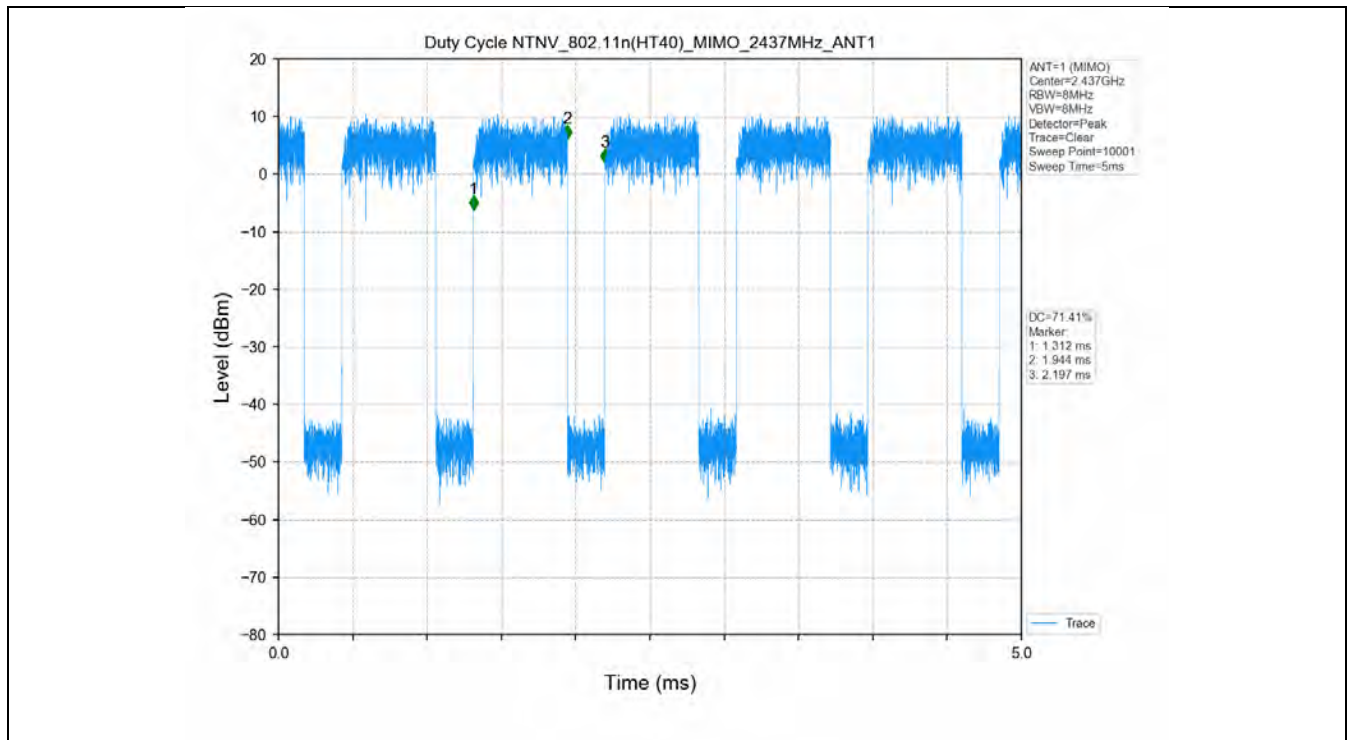


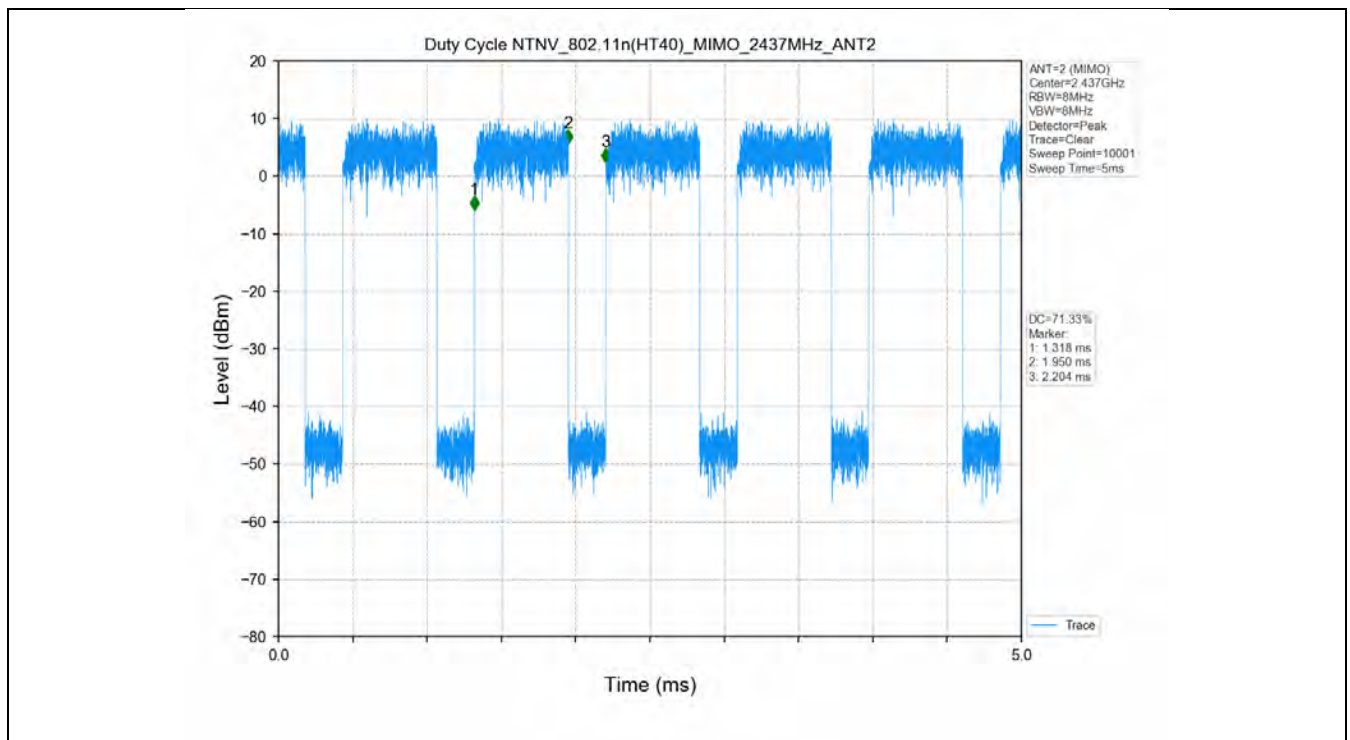
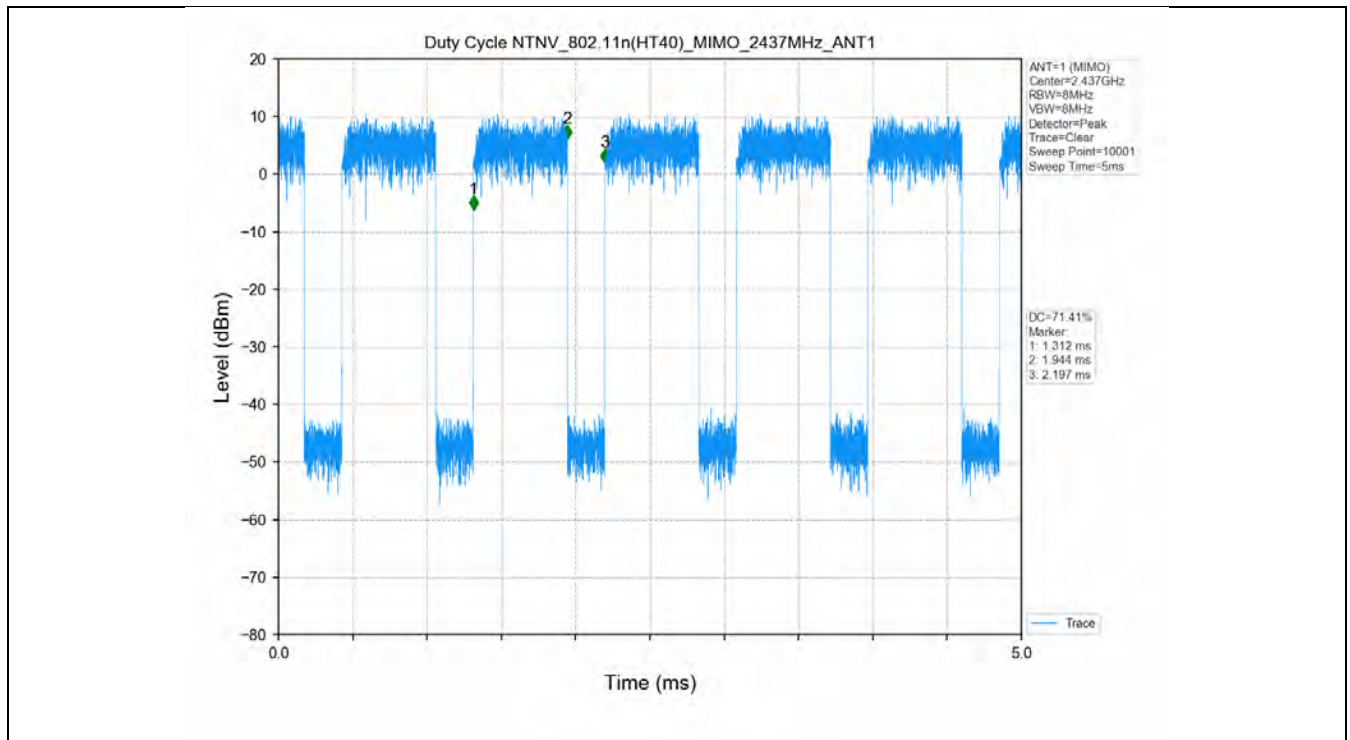


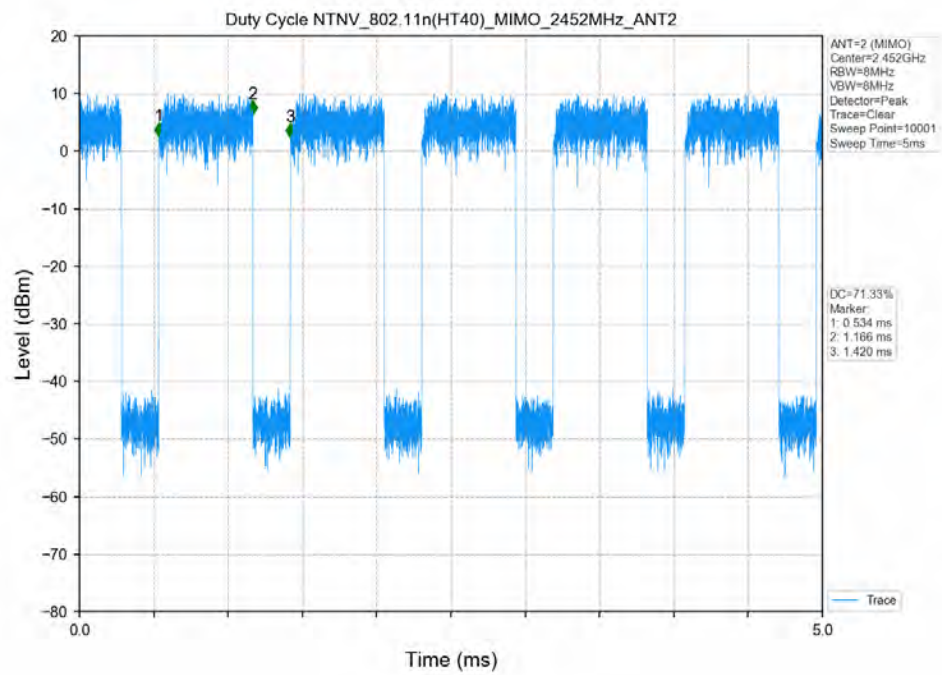
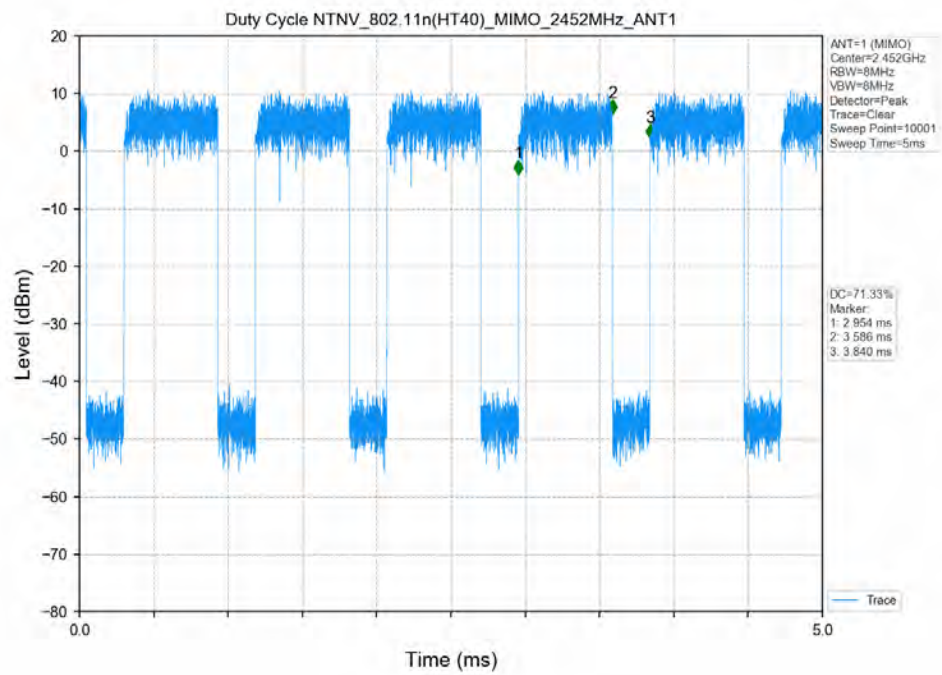


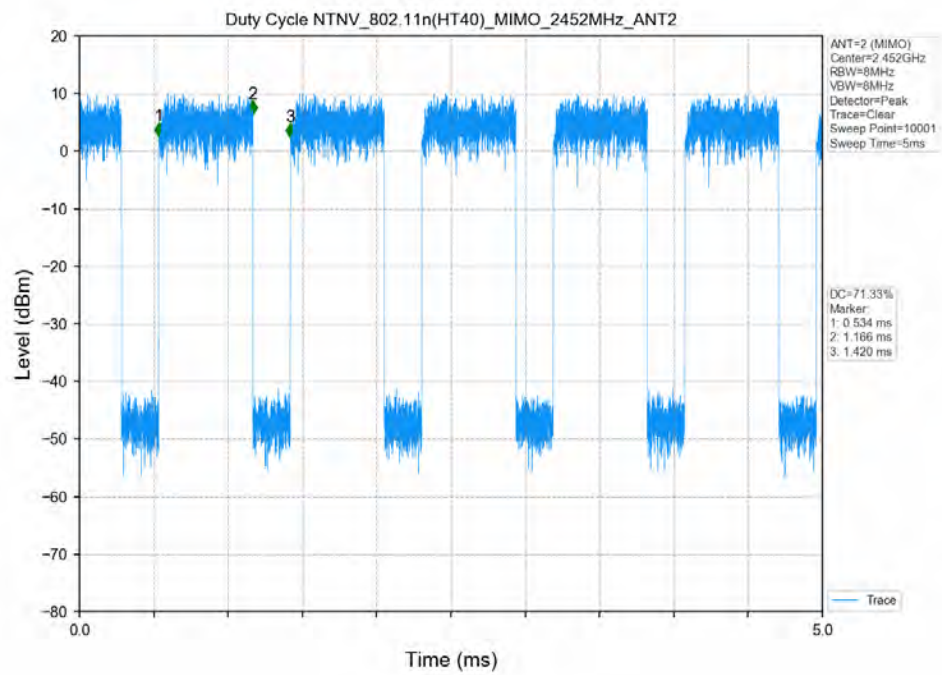
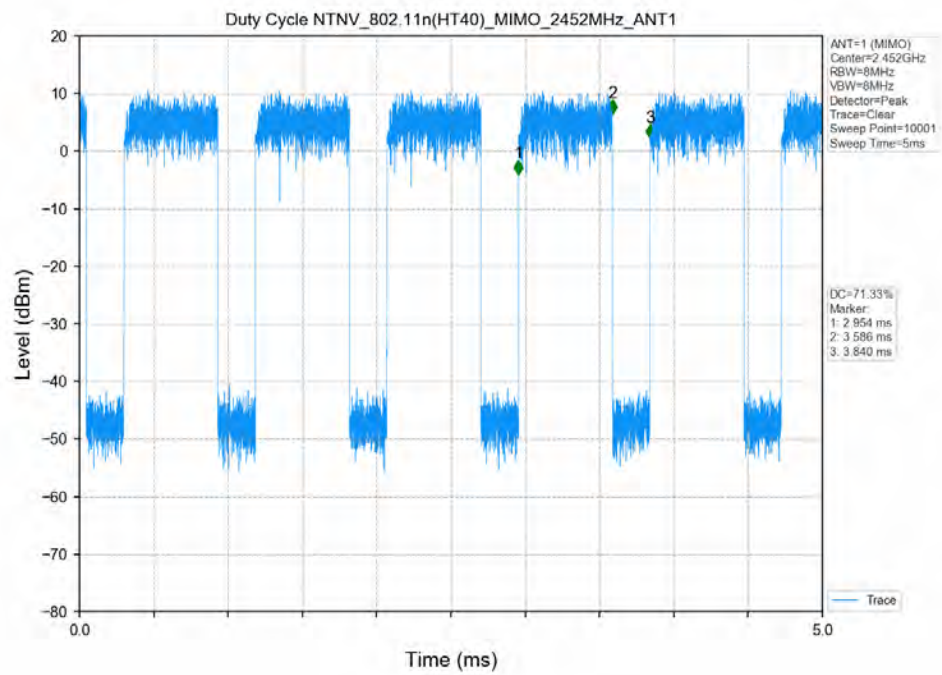














2. Bandwidth

2.1 Test Result

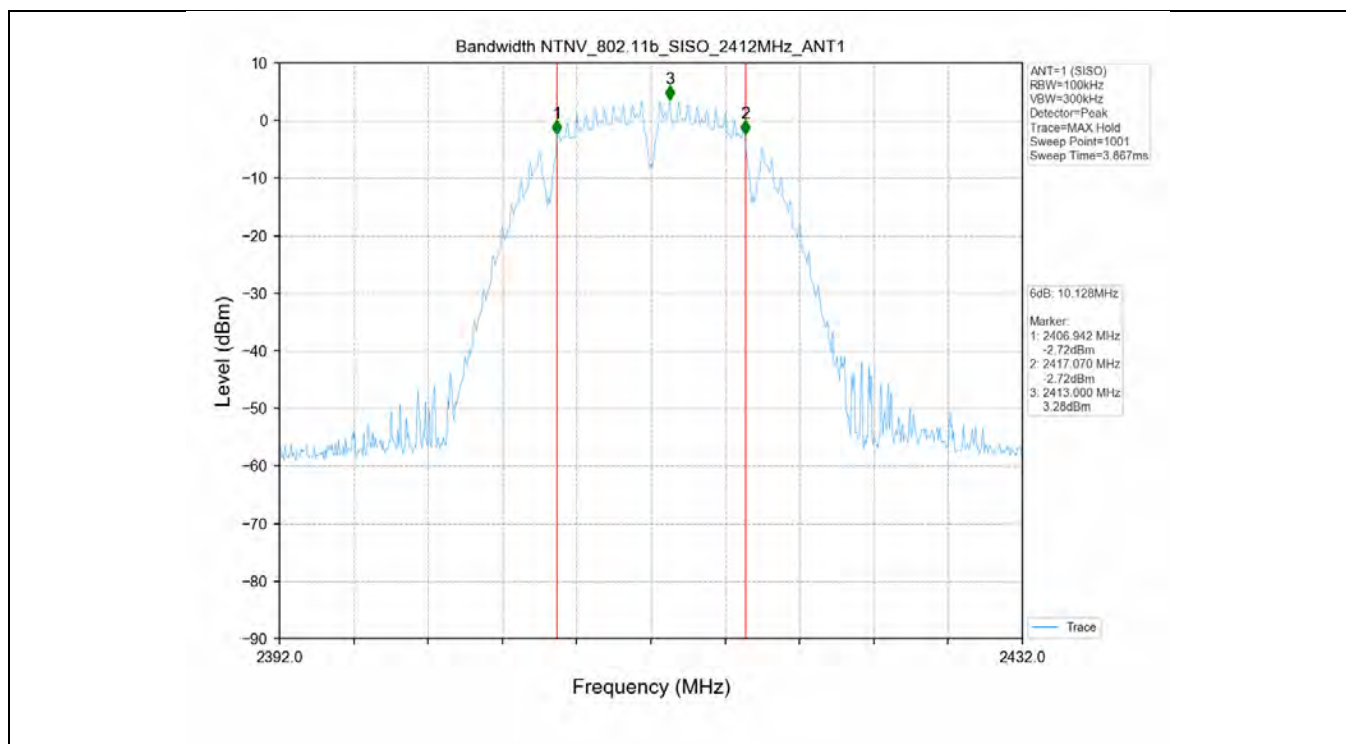
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth					Verdict
				Test Result (MHz)	Limits (MHz)	1.5*BW (MHz)	Span using in the PSD (MHz)	Span using in the Power (MHz)	
802.11b	2412	SISO	1	10.128	≥0.5	15.192	15.192	15.192	PASS
			2	10.132	≥0.5	15.198	15.198	15.198	PASS
	2437	SISO	1	10.141	≥0.5	15.212	15.212	15.212	PASS
			2	10.138	≥0.5	15.207	15.207	15.207	PASS
	2462	SISO	1	10.126	≥0.5	15.189	15.189	15.189	PASS
			2	10.129	≥0.5	15.194	15.194	15.194	PASS
802.11g	2412	SISO	1	13.892	≥0.5	20.838	20.838	20.838	PASS
			2	15.134	≥0.5	22.701	22.701	22.701	PASS
	2437	SISO	1	14.468	≥0.5	21.702	21.702	21.702	PASS
			2	15.097	≥0.5	22.646	22.646	22.646	PASS
	2462	SISO	1	15.111	≥0.5	22.667	22.667	22.667	PASS
			2	15.061	≥0.5	22.592	22.592	22.592	PASS
802.11n(HT20)	2412	MIMO	1	15.143	≥0.5	22.715	22.715	22.715	PASS
			2	15.132	≥0.5	22.698	22.698	22.698	PASS
	2437	MIMO	1	15.077	≥0.5	22.616	22.616	22.616	PASS
			2	15.066	≥0.5	22.599	22.599	22.599	PASS
	2462	MIMO	1	15.069	≥0.5	22.604	22.604	22.604	PASS
			2	15.134	≥0.5	22.701	22.701	22.701	PASS
802.11n(HT40)	2422	MIMO	1	23.818	≥0.5	35.727	35.727	35.727	PASS
			2	25.083	≥0.5	37.625	37.625	37.625	PASS
	2437	MIMO	1	27.576	≥0.5	41.364	41.364	41.364	PASS
			2	25.121	≥0.5	37.682	37.682	37.682	PASS
	2452	MIMO	1	26.311	≥0.5	39.467	39.467	39.467	PASS
			2	27.536	≥0.5	41.304	41.304	41.304	PASS

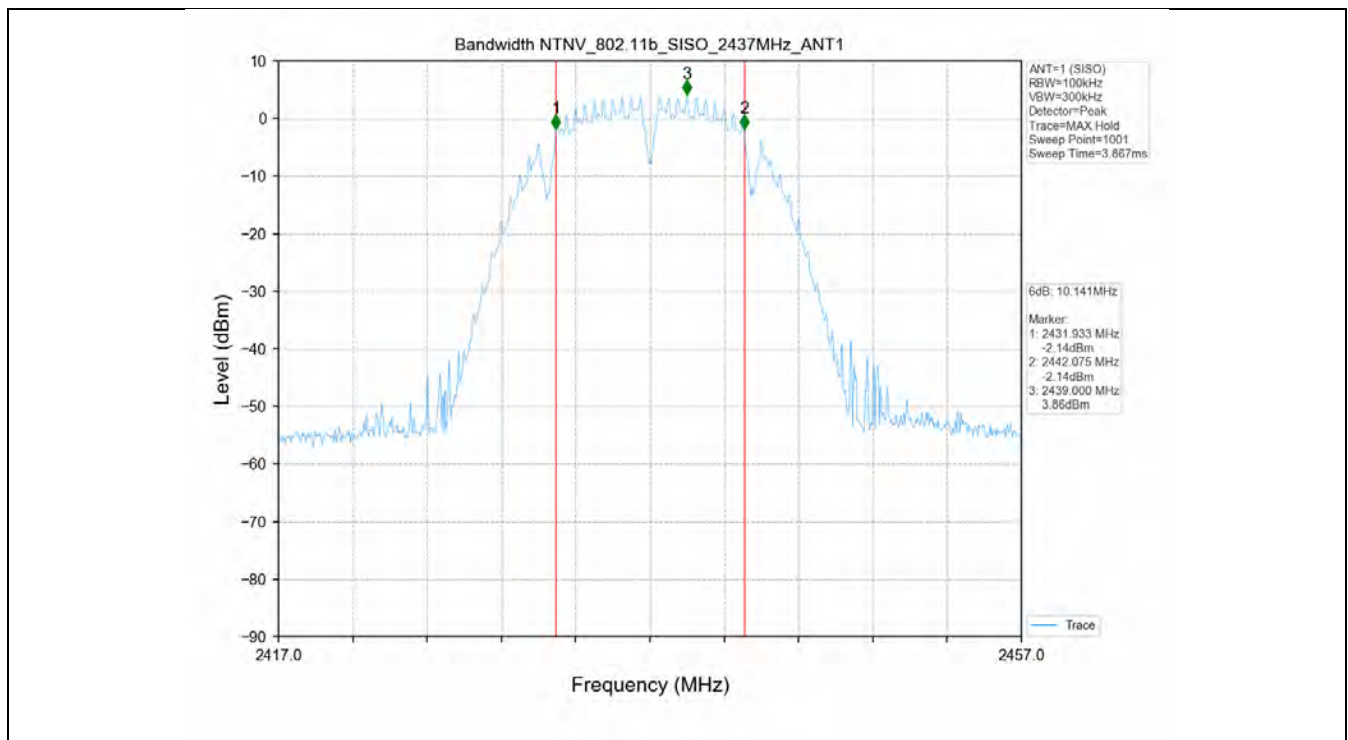
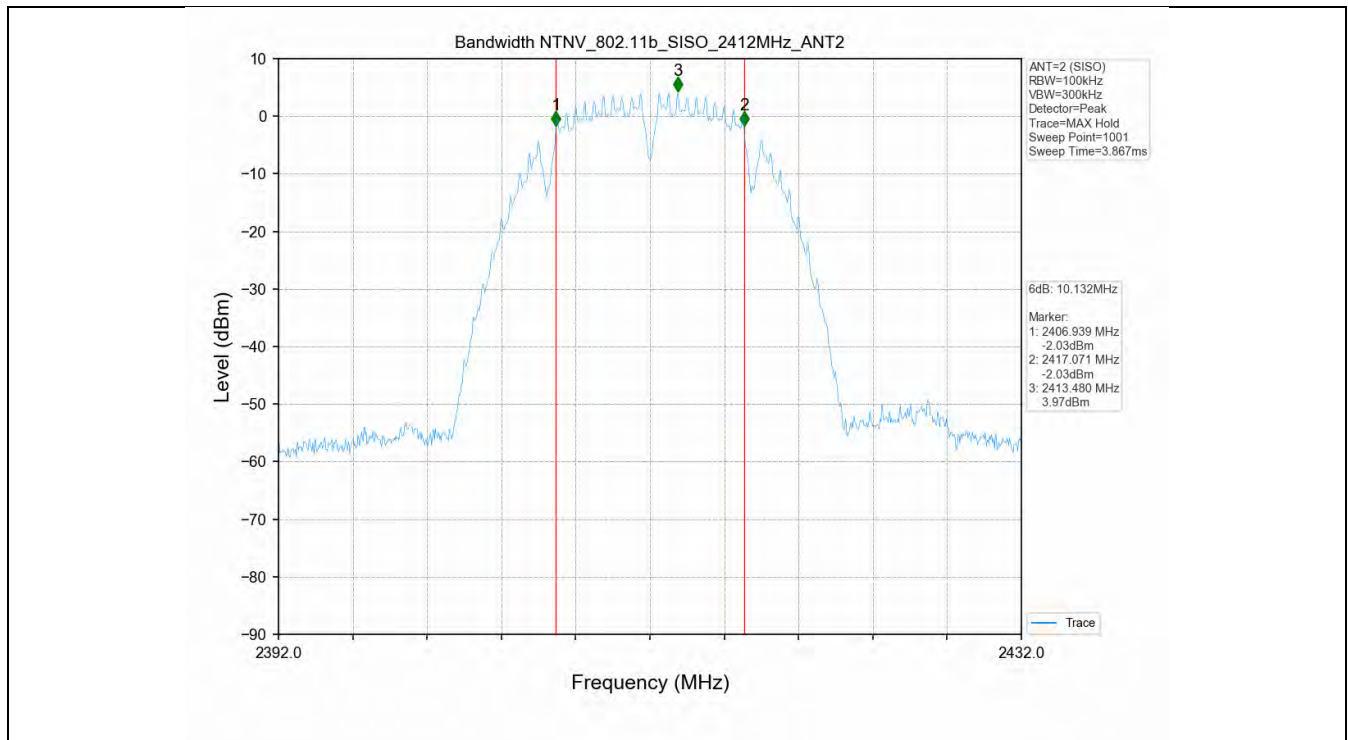
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	13.386	Only for Report Use
			2	13.388	Only for Report Use
	2437	SISO	1	13.402	Only for Report Use
			2	13.414	Only for Report Use
	2462	SISO	1	13.397	Only for Report Use
			2	13.384	Only for Report Use
802.11g	2412	SISO	1	16.363	Only for Report Use
			2	16.408	Only for Report Use
	2437	SISO	1	16.369	Only for Report Use
			2	16.417	Only for Report Use
	2462	SISO	1	16.343	Only for Report Use
			2	16.419	Only for Report Use

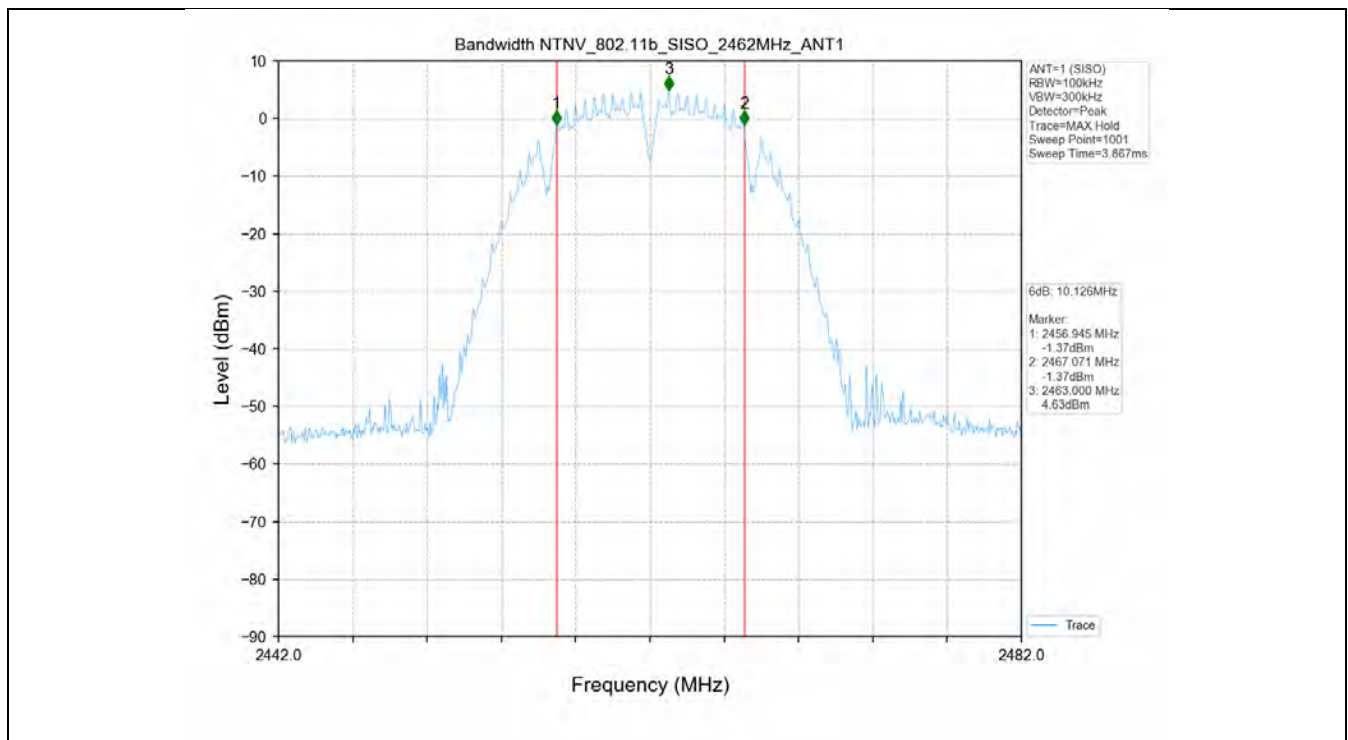
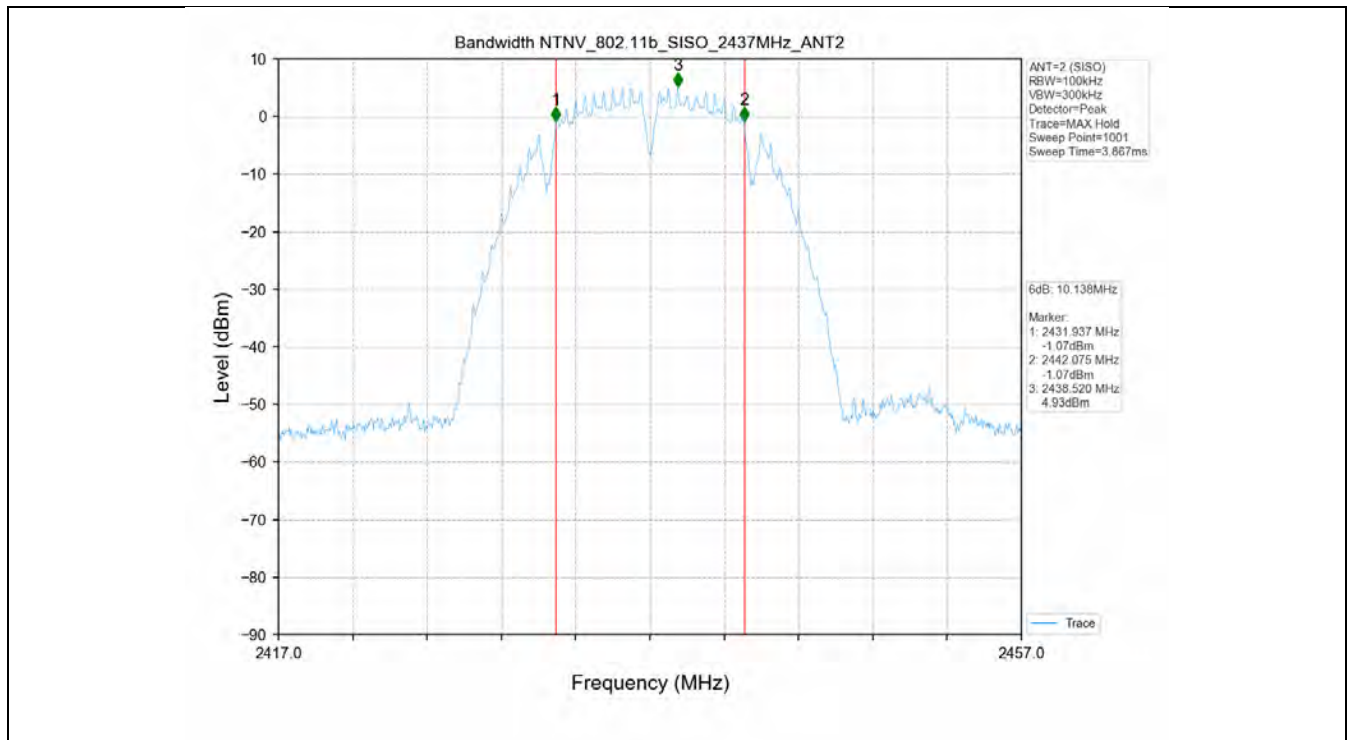


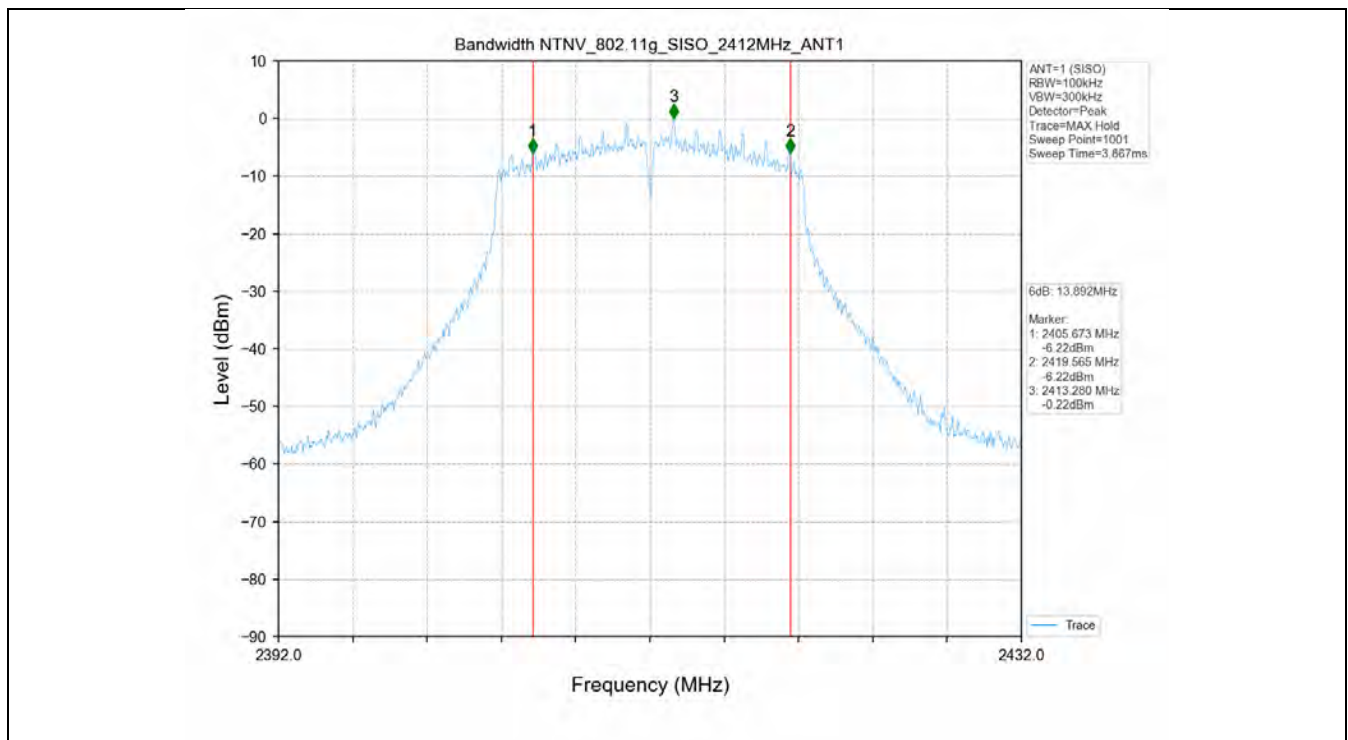
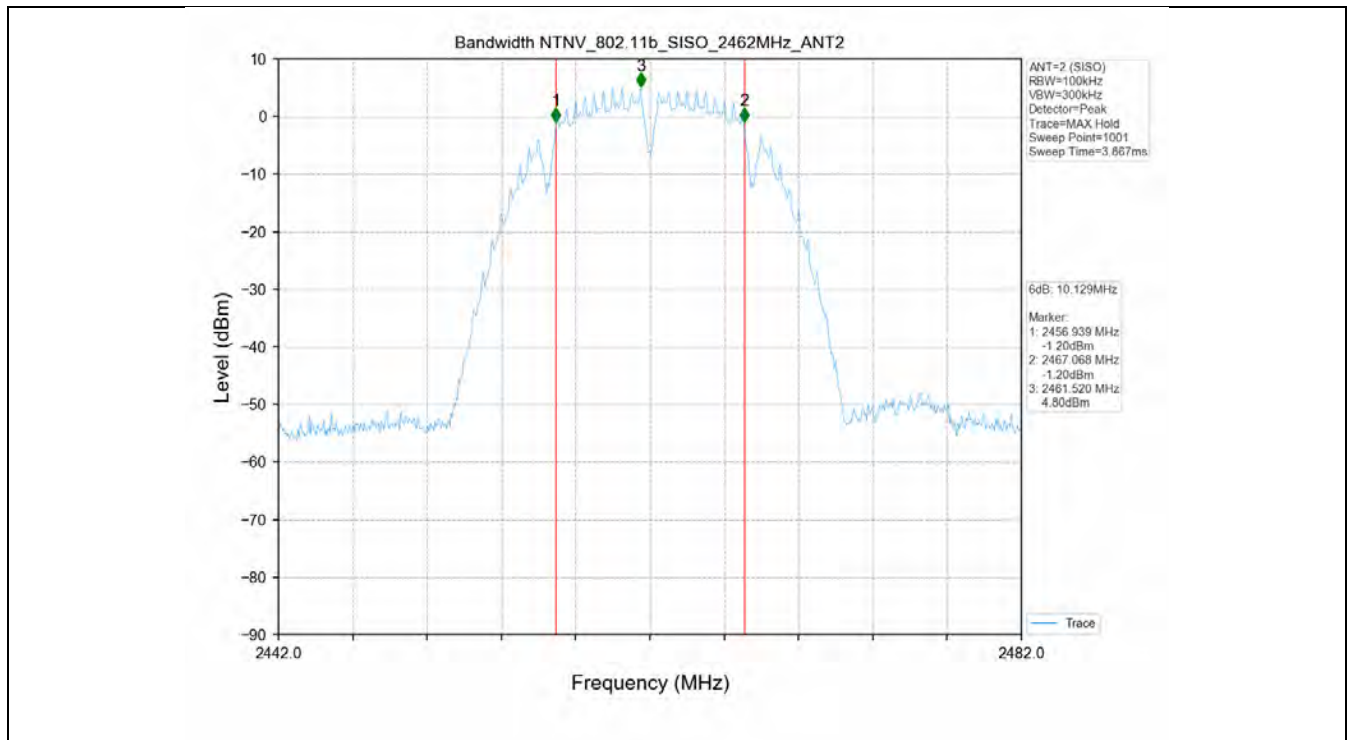
802.11n(HT20)	2412	MIMO	1	17.580	Only for Report Use
			2	17.562	Only for Report Use
	2437	MIMO	1	17.577	Only for Report Use
			2	17.561	Only for Report Use
	2462	MIMO	1	17.534	Only for Report Use
			2	17.572	Only for Report Use
802.11n(HT40)	2422	MIMO	1	34.776	Only for Report Use
			2	34.763	Only for Report Use
	2437	MIMO	1	34.771	Only for Report Use
			2	34.765	Only for Report Use
	2452	MIMO	1	34.772	Only for Report Use
			2	34.734	Only for Report Use

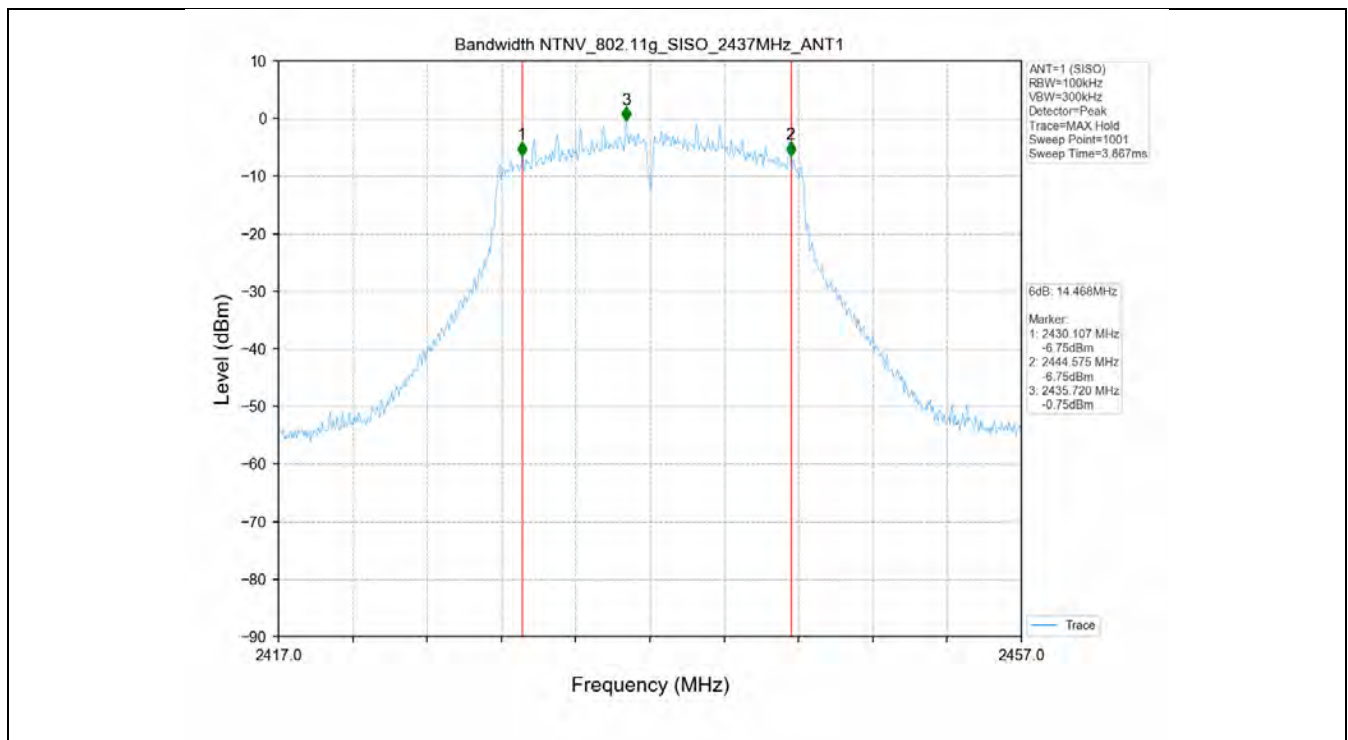
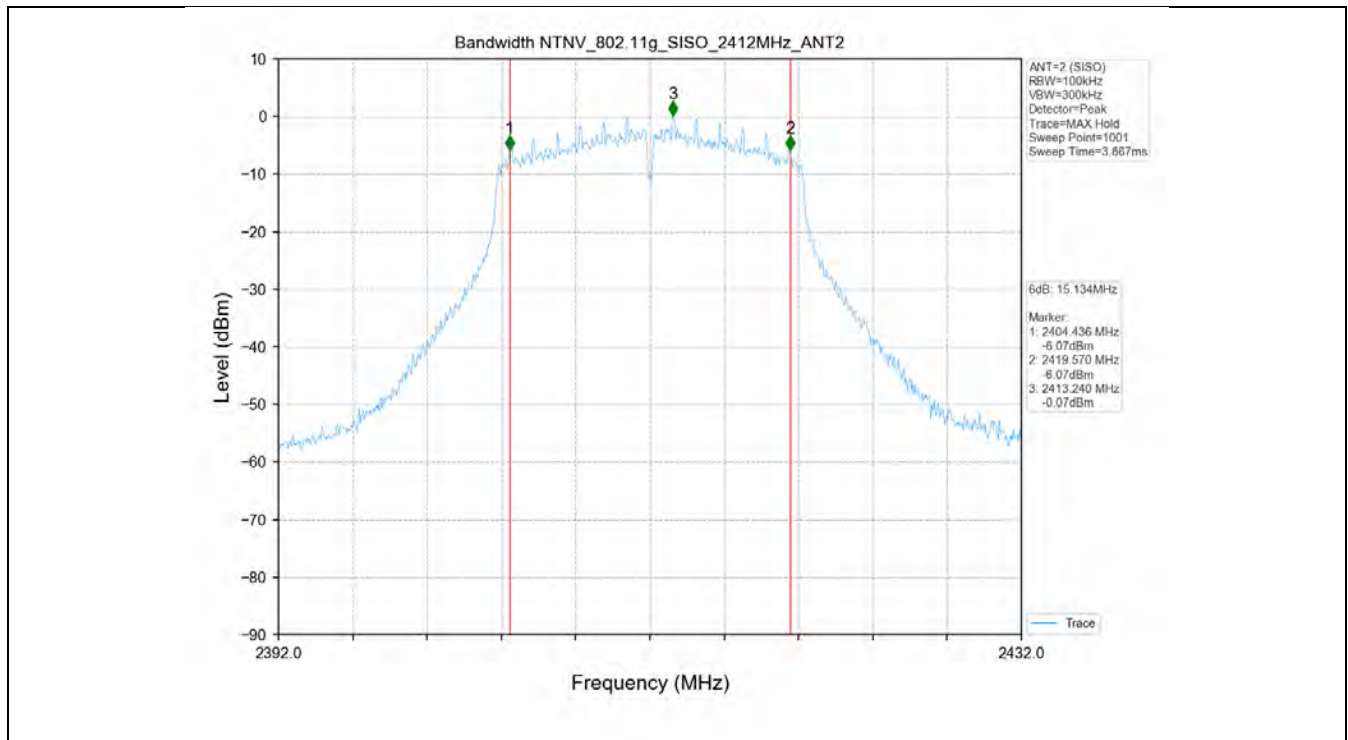
2.2 Test Graph - 6dB Bandwidth

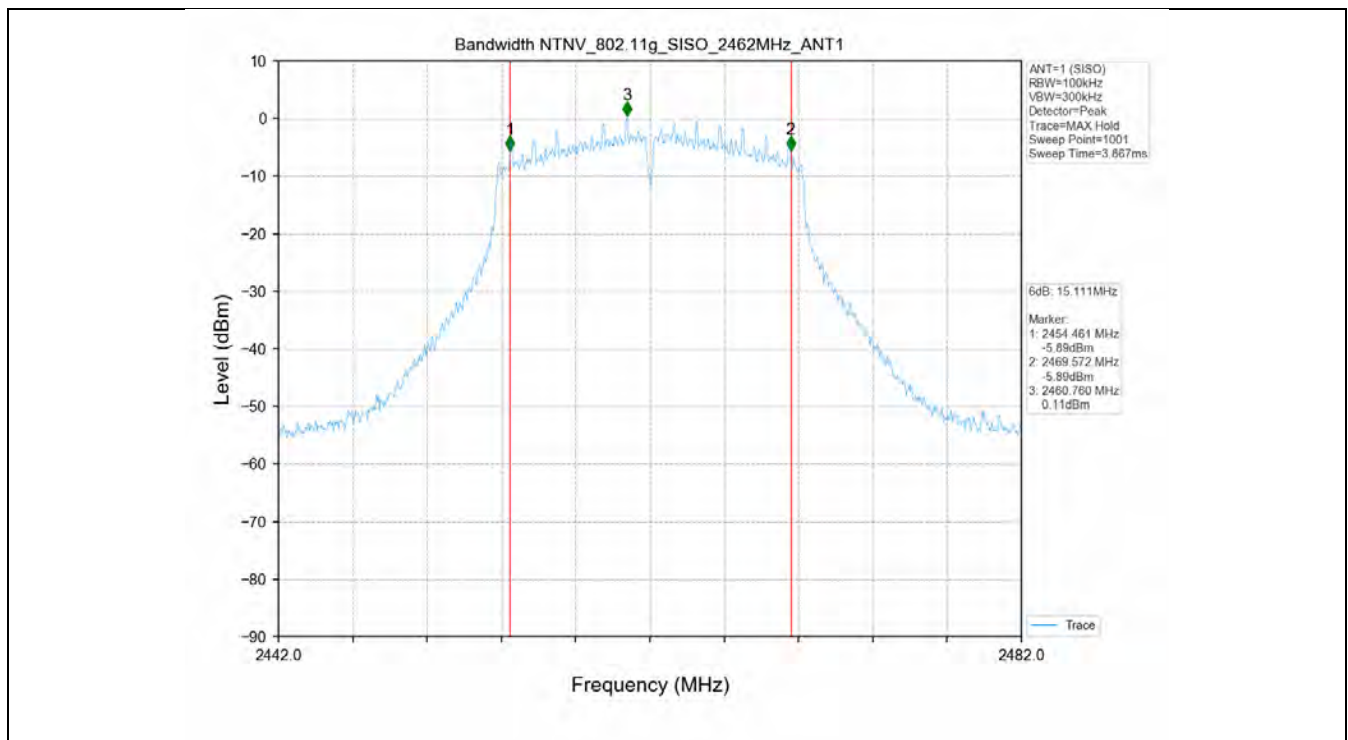
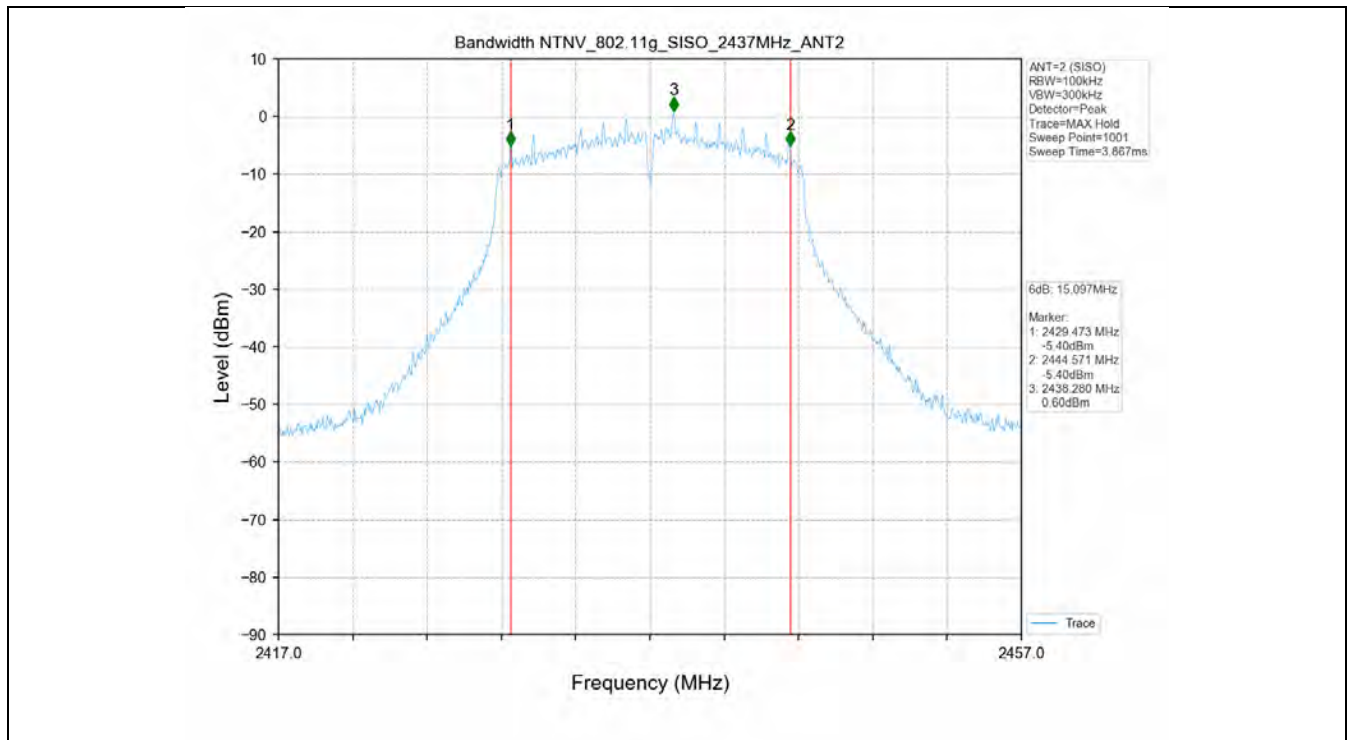


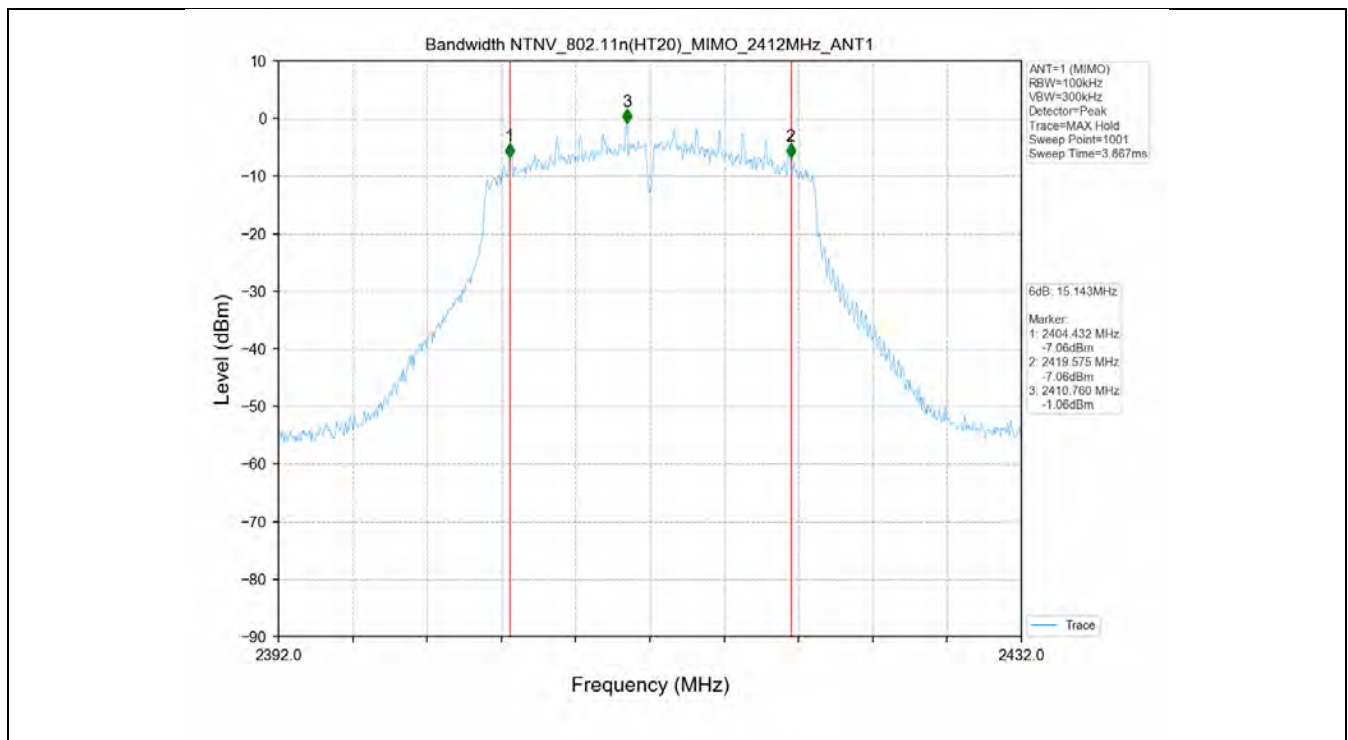
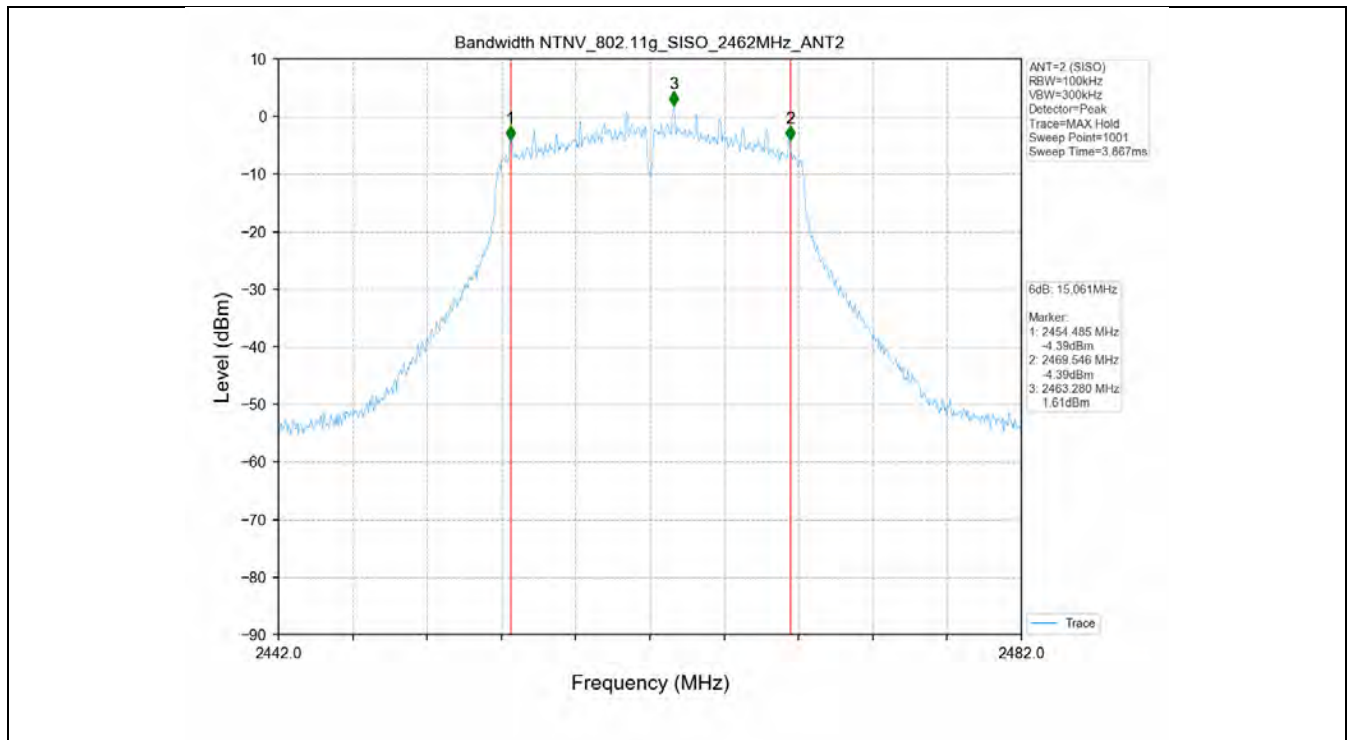


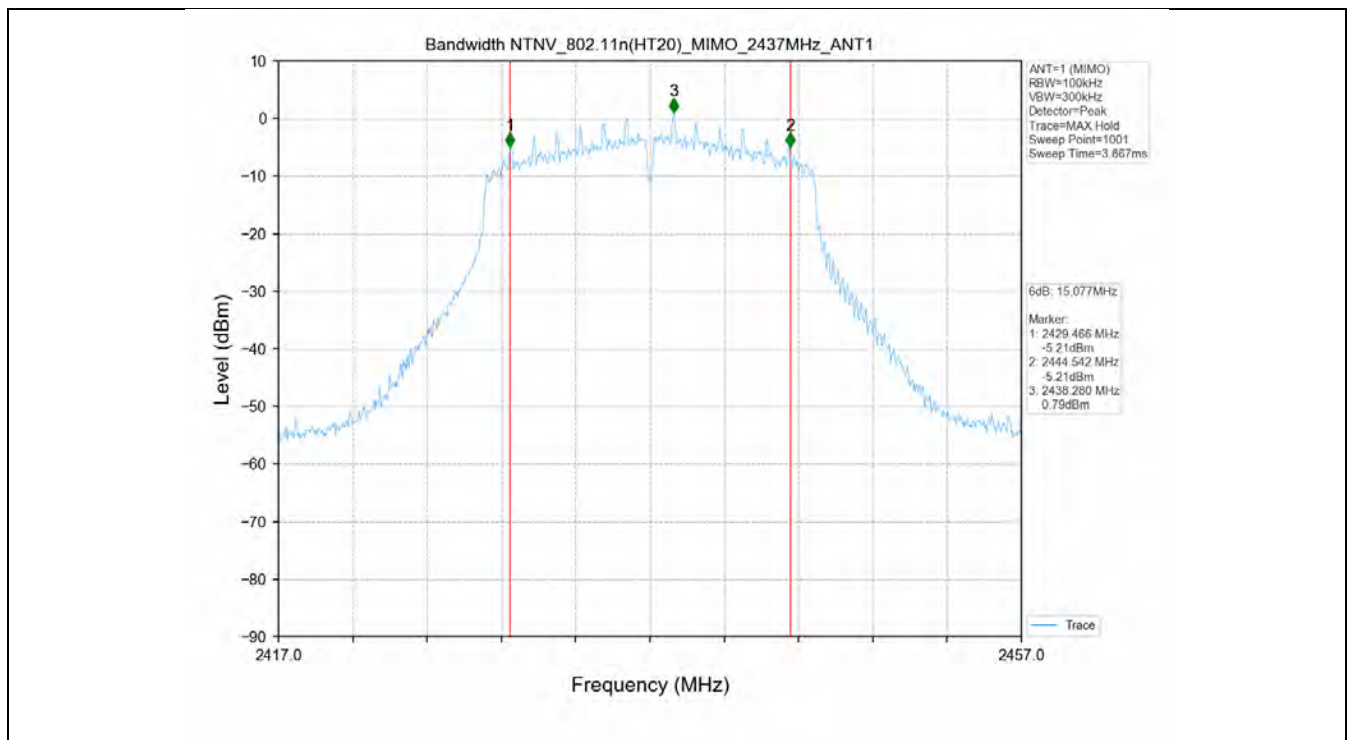
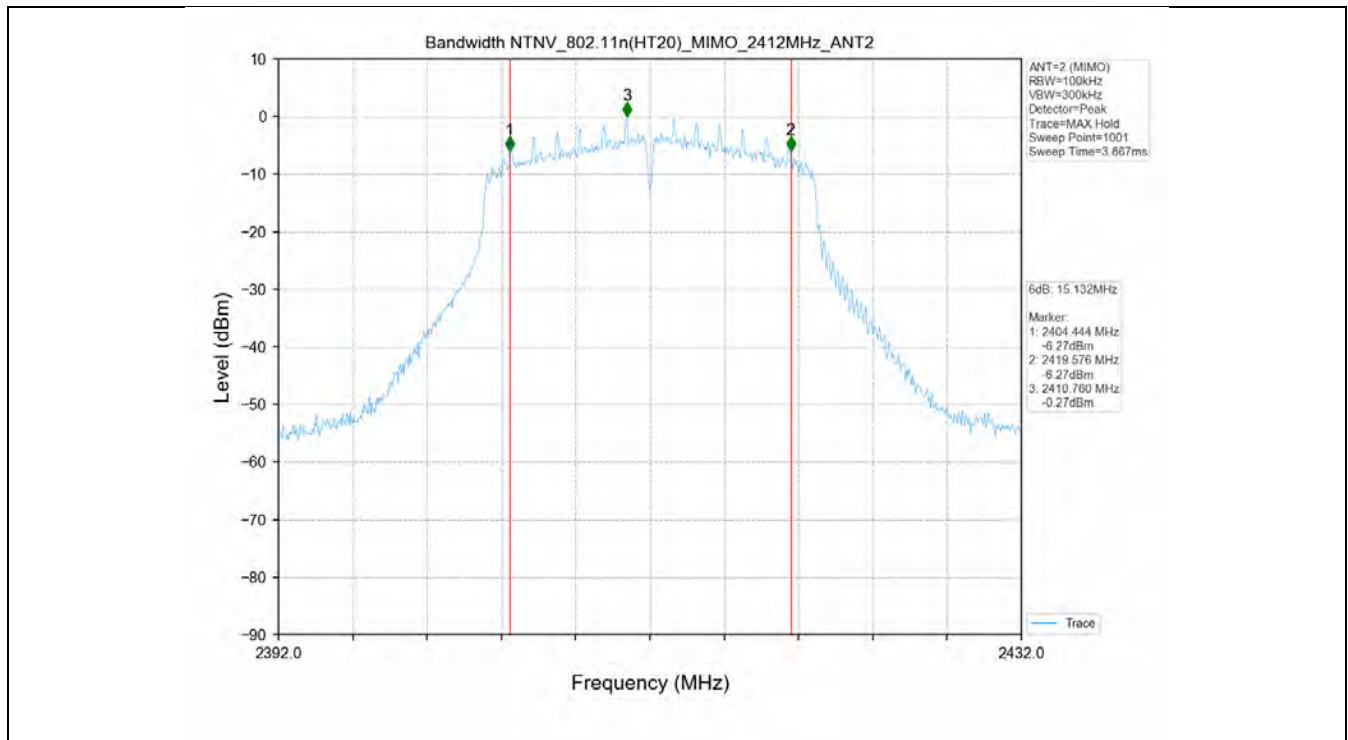


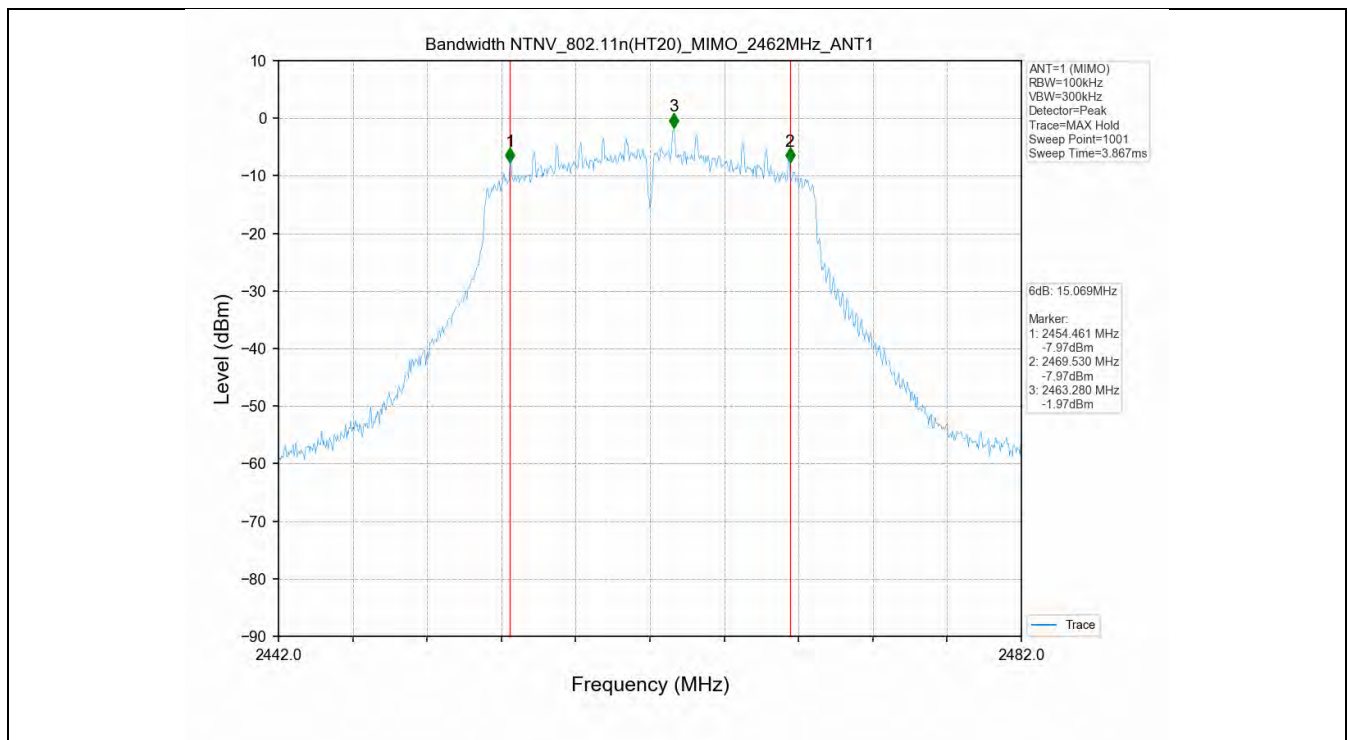
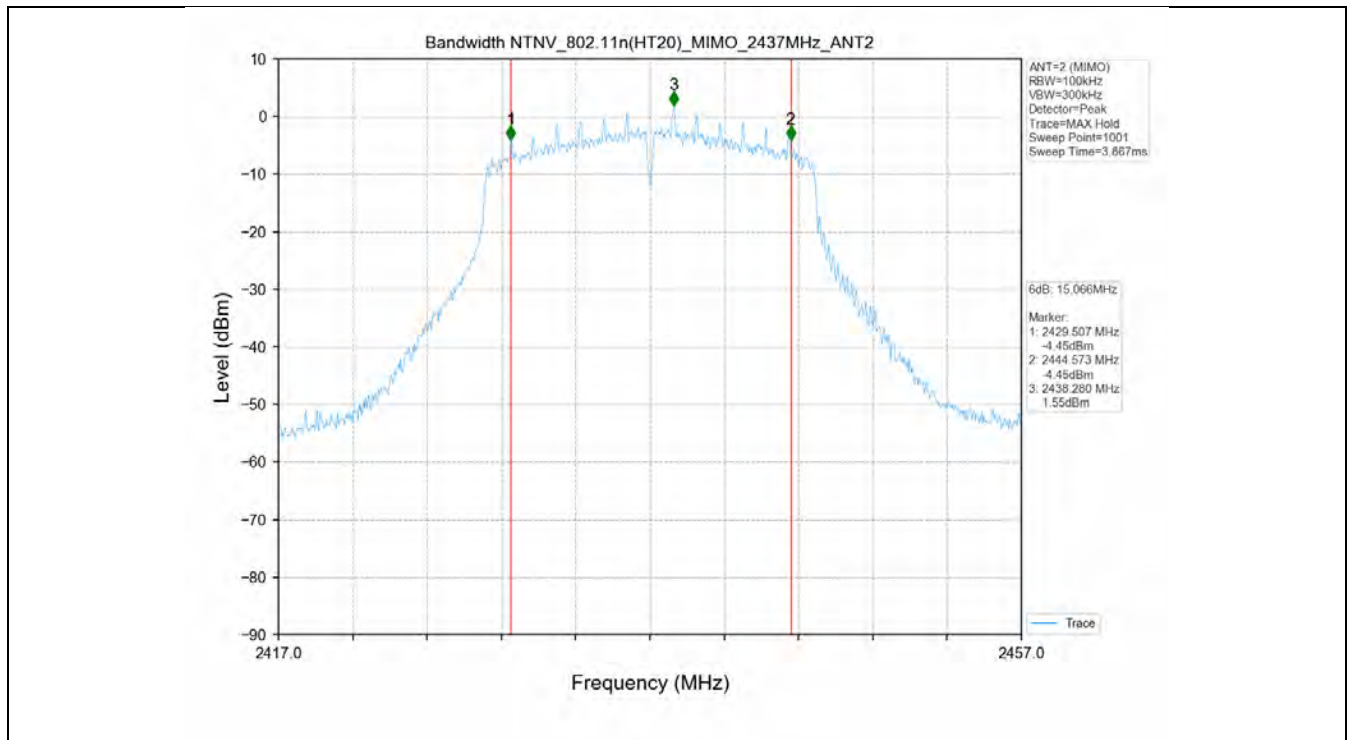


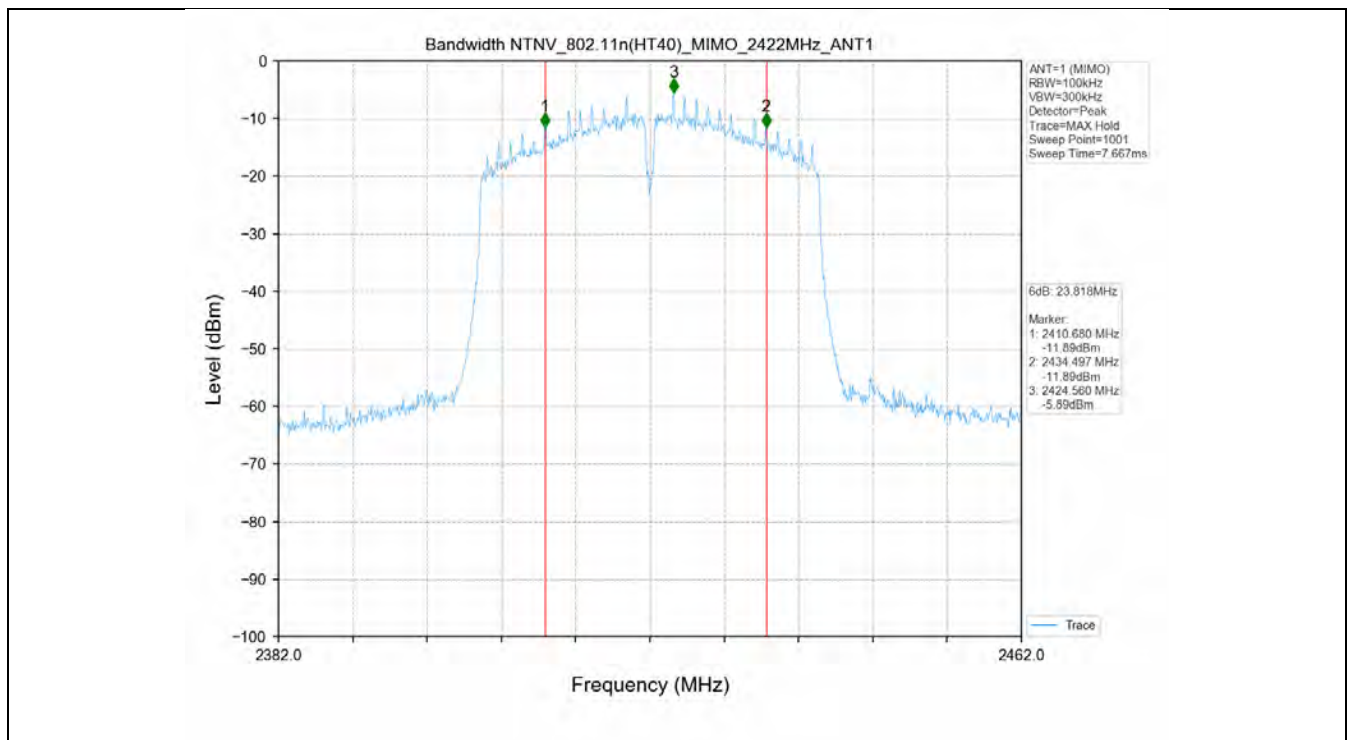
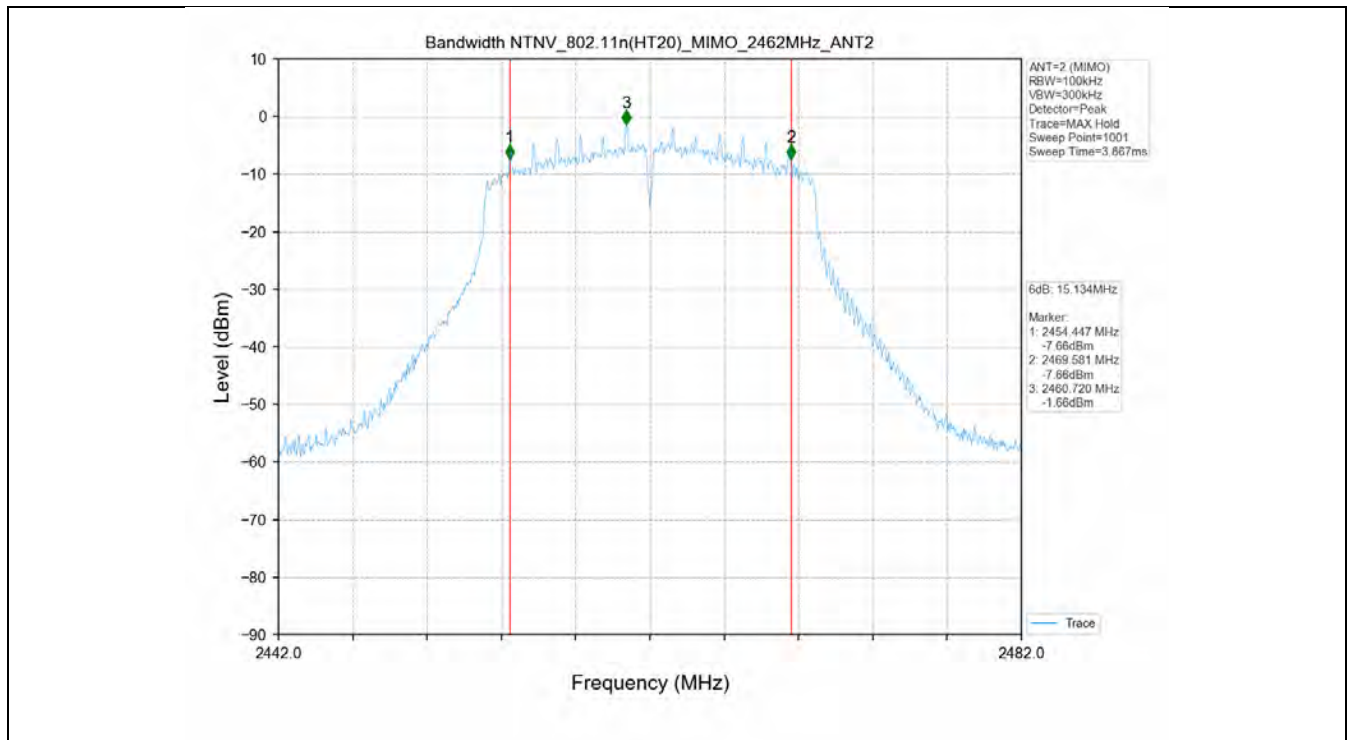


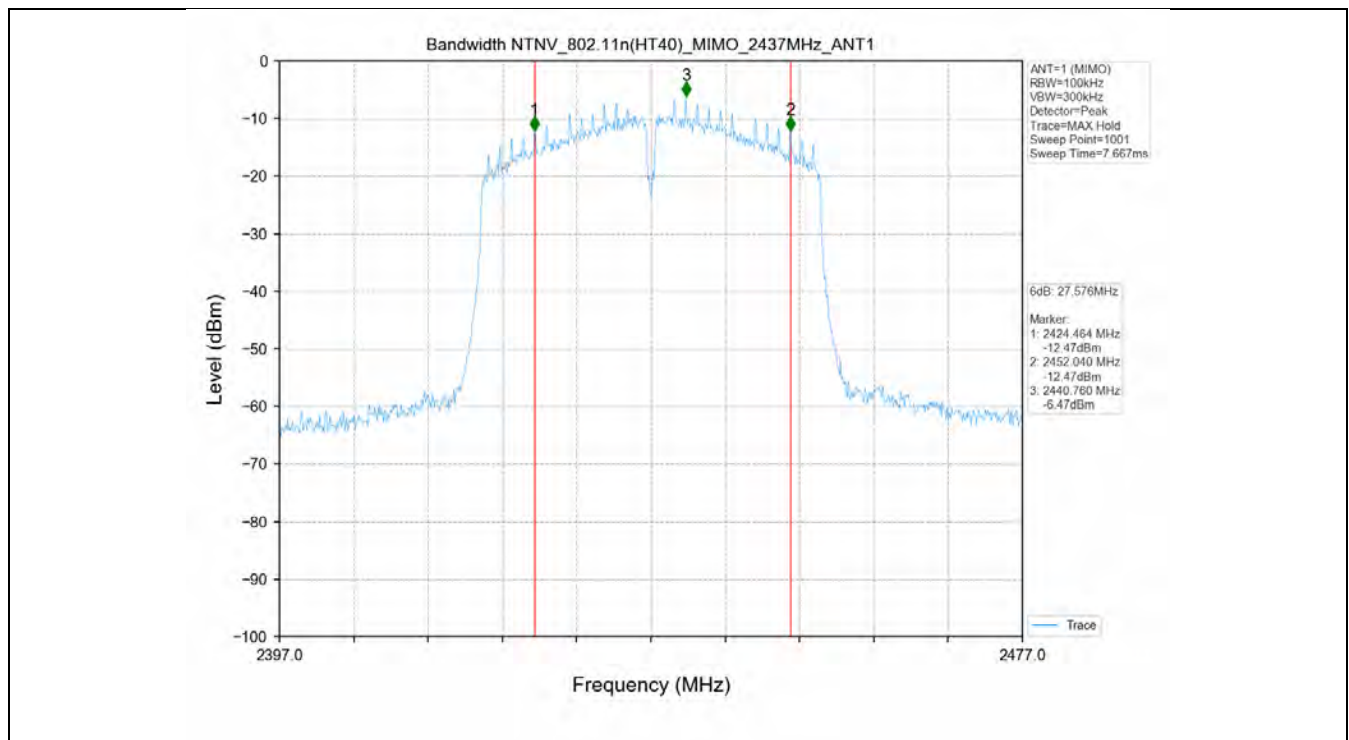
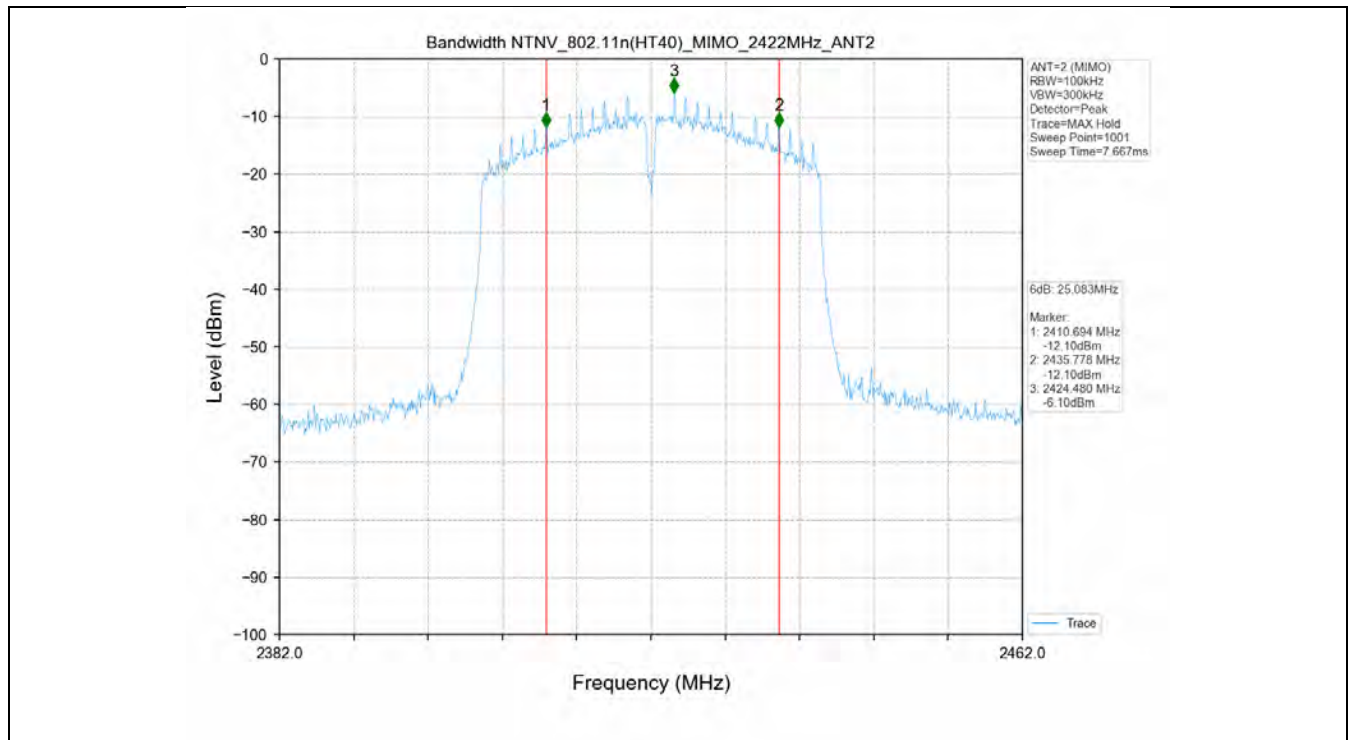


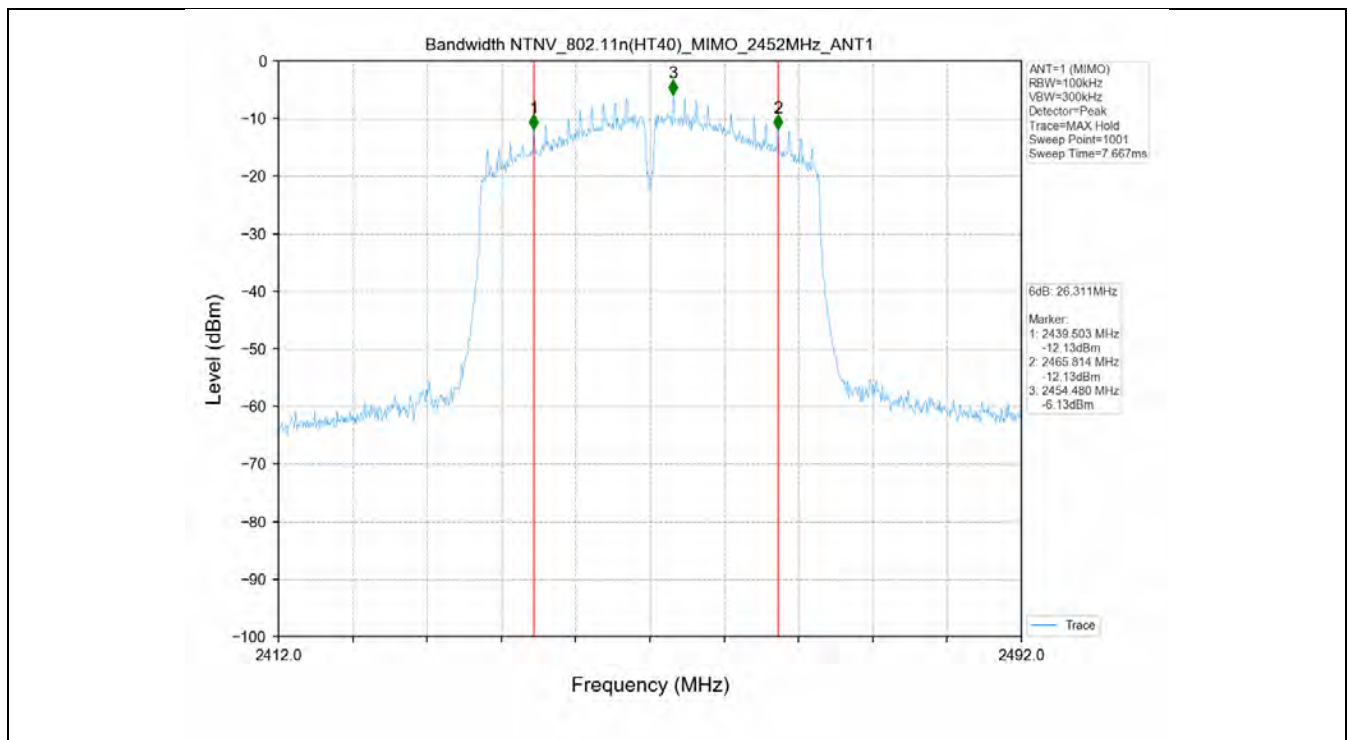
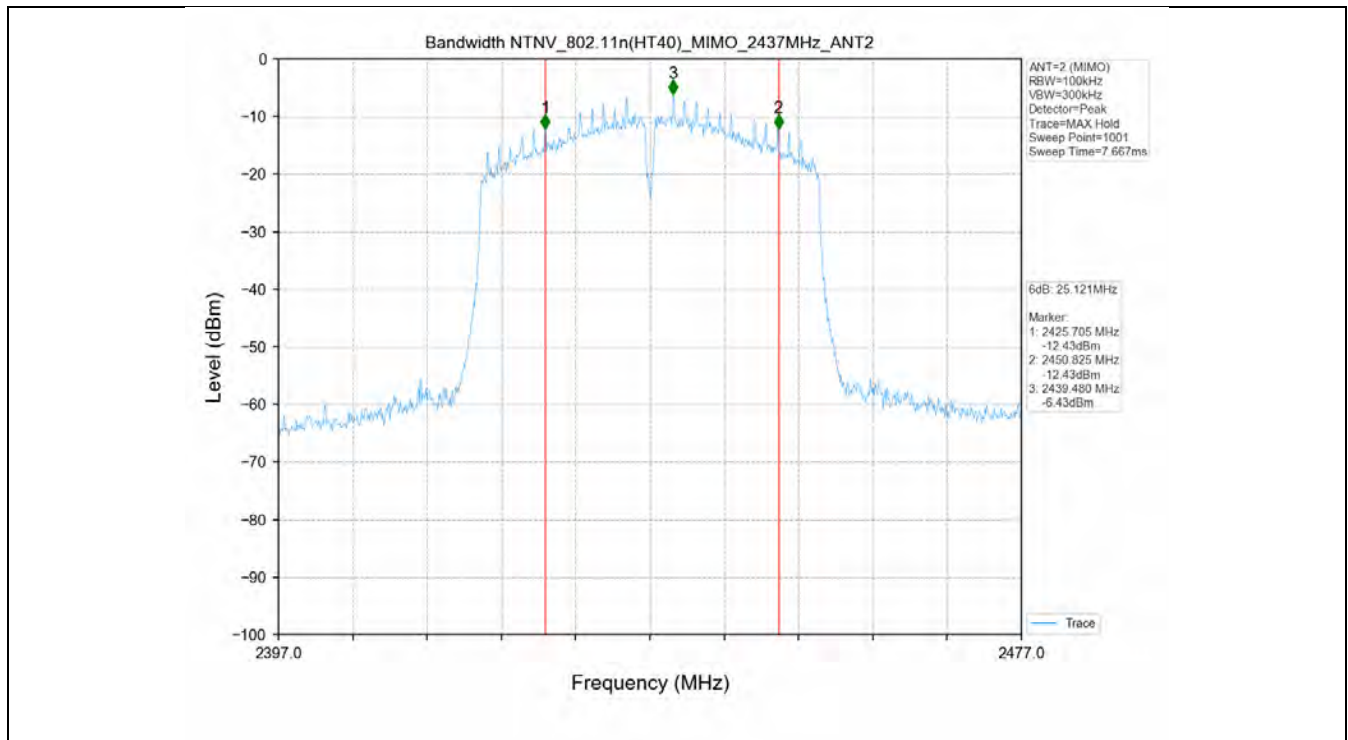


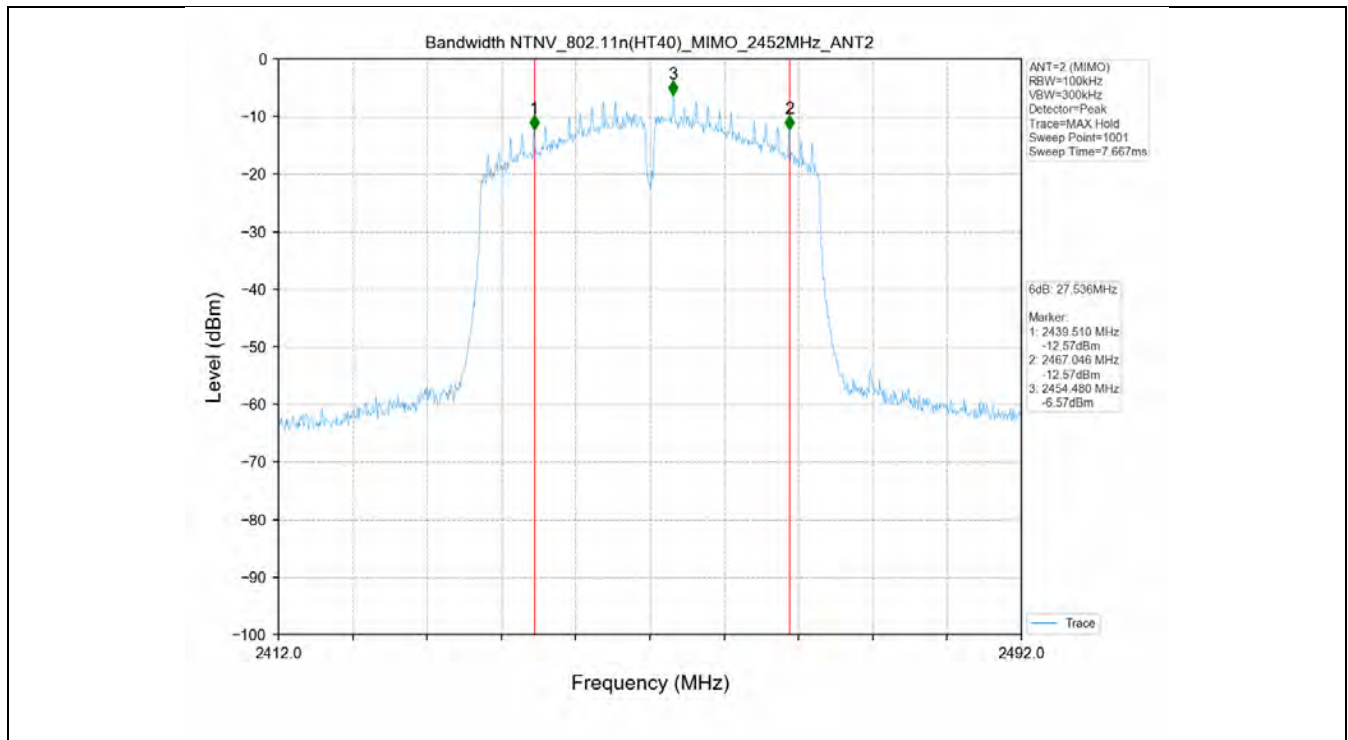




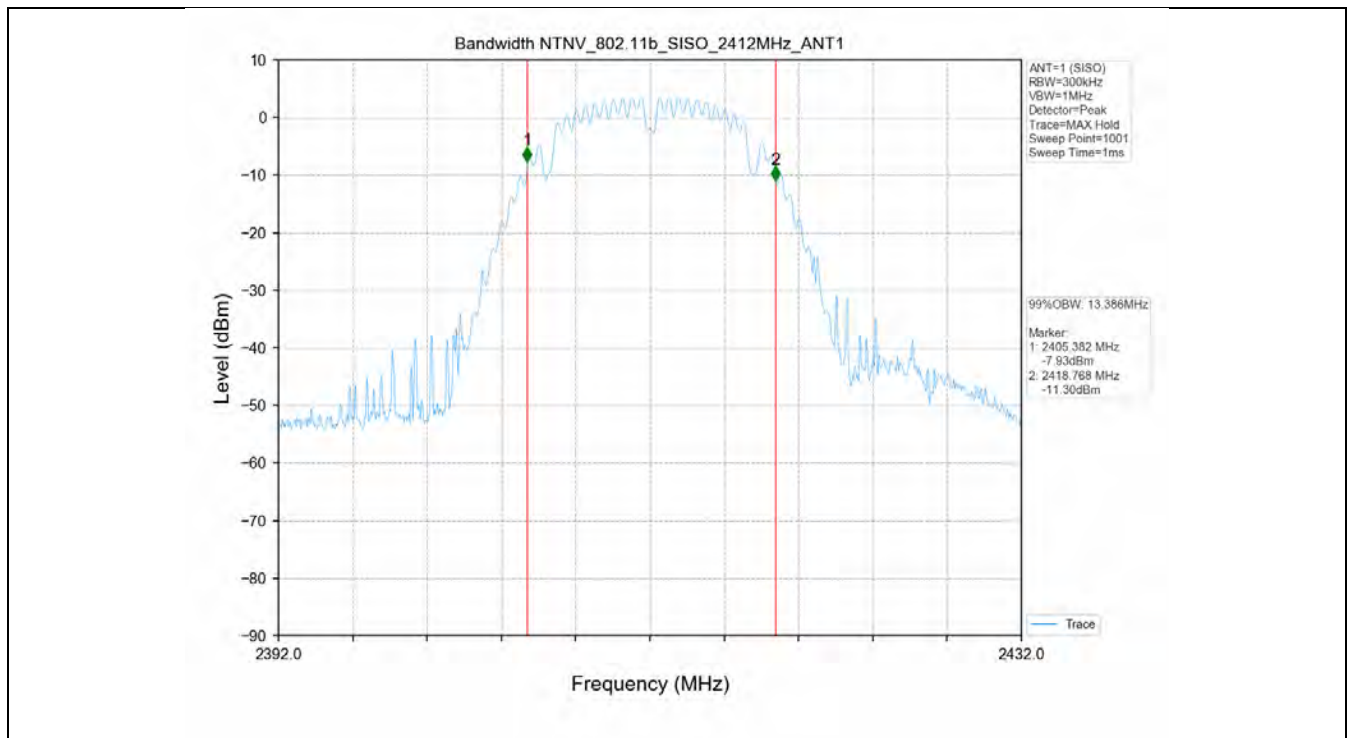


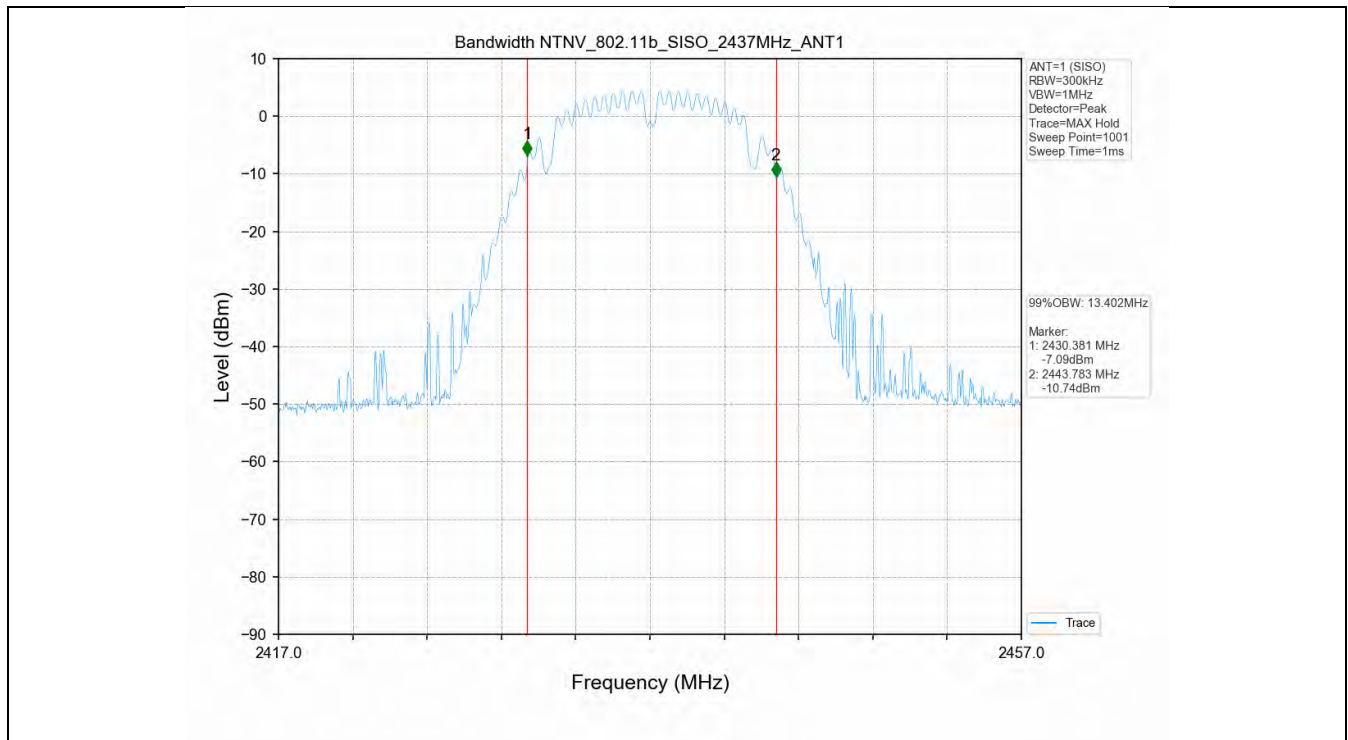
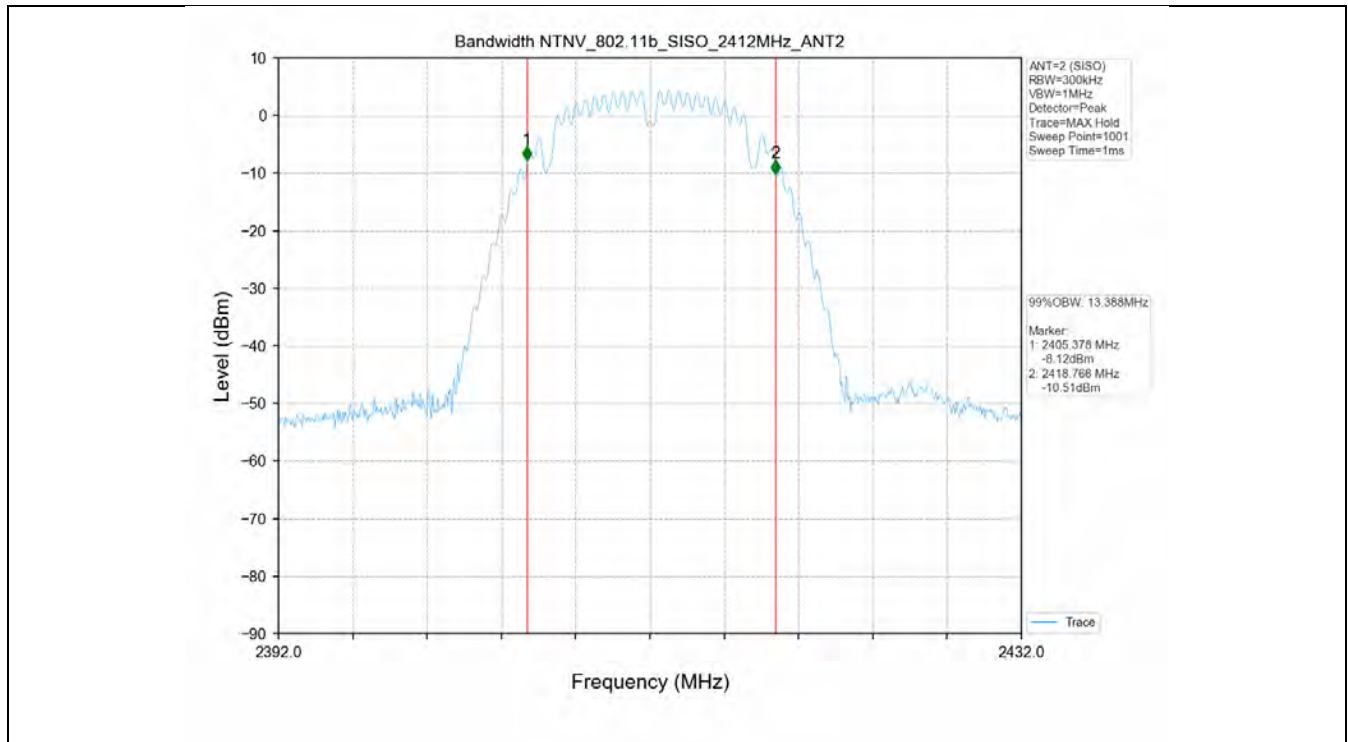


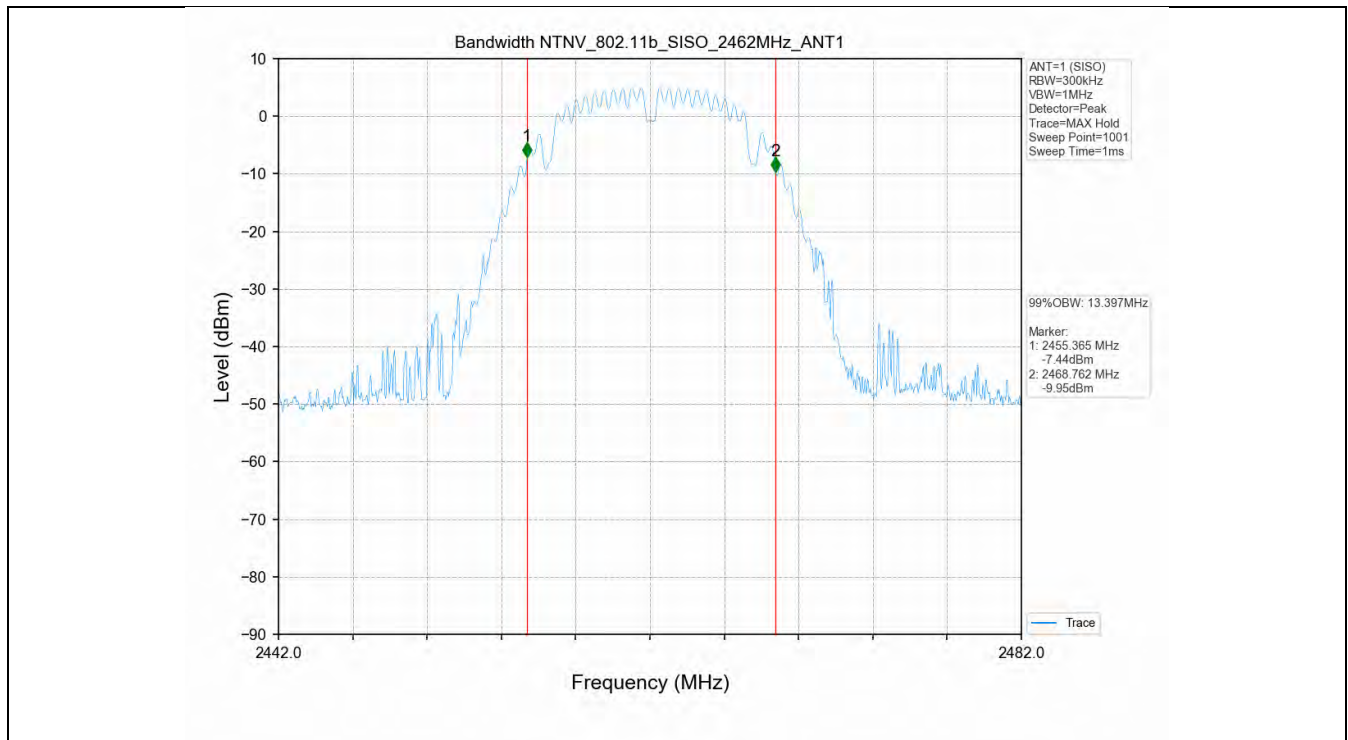
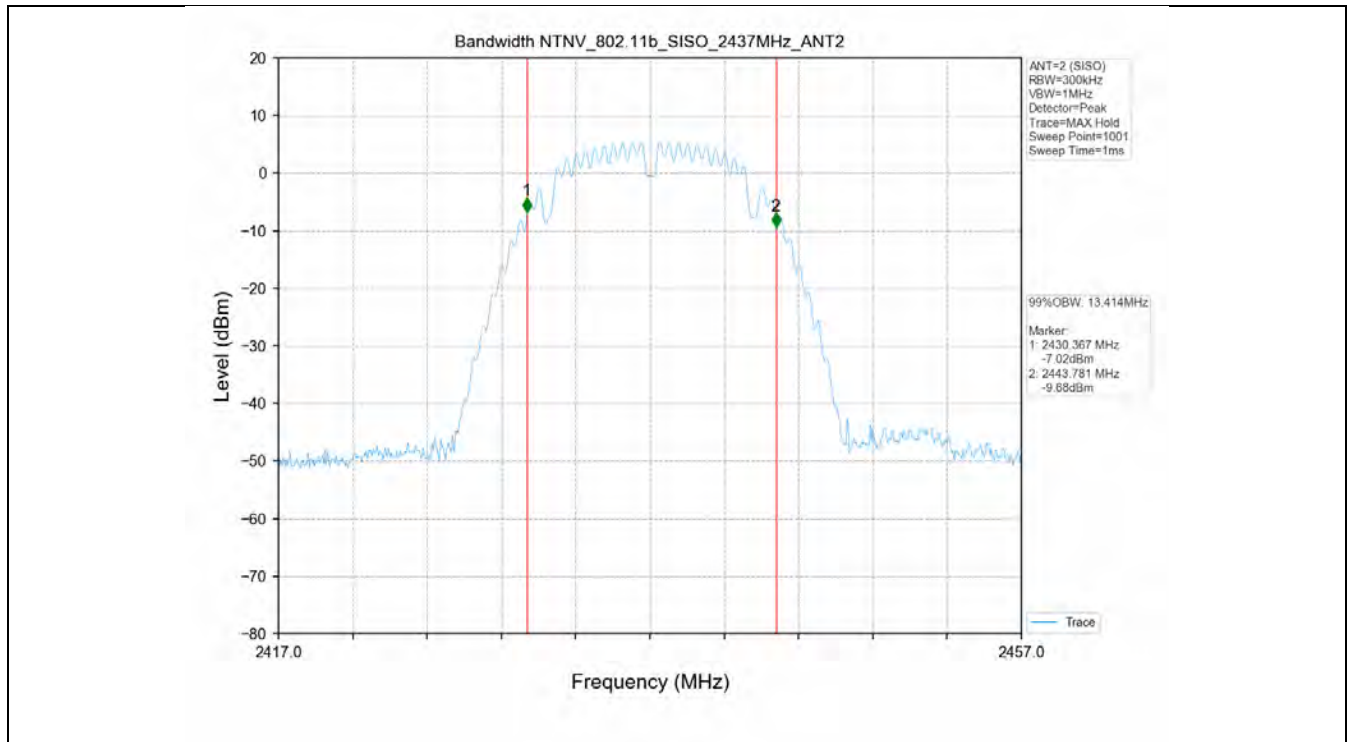


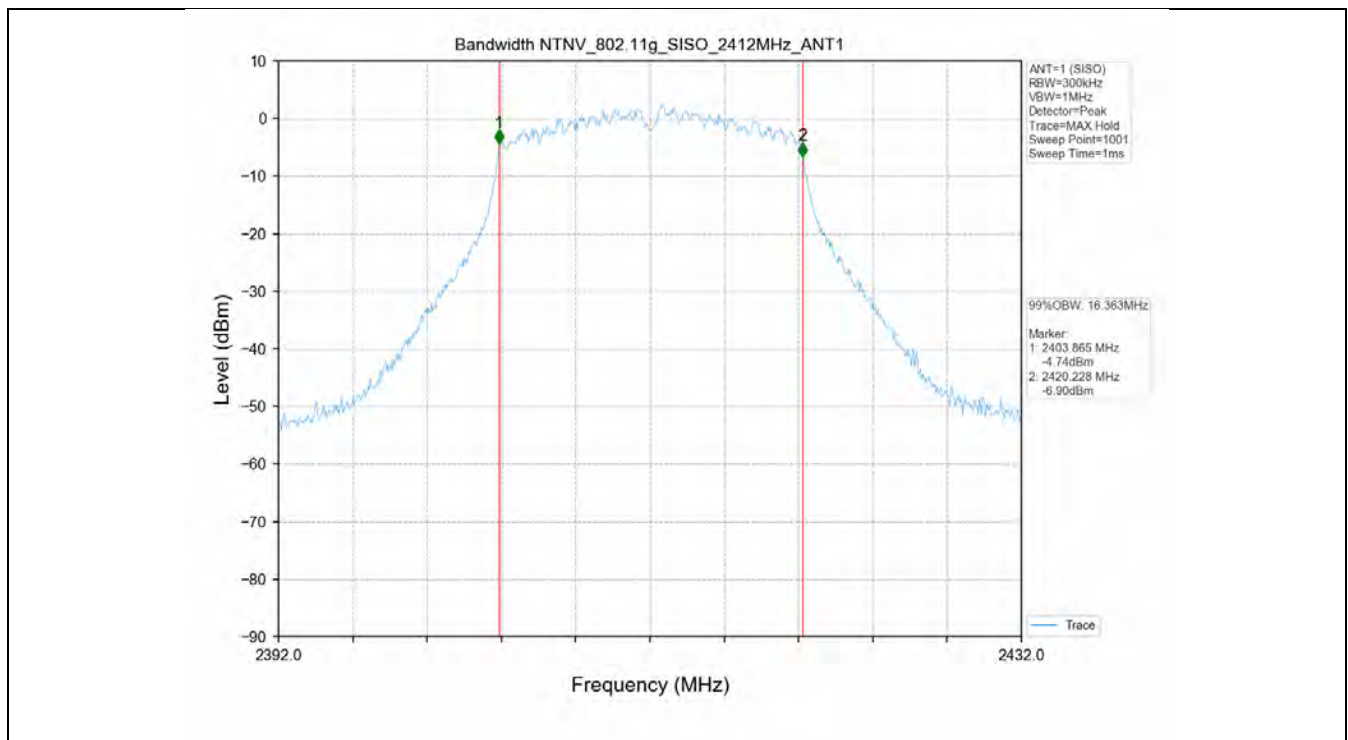
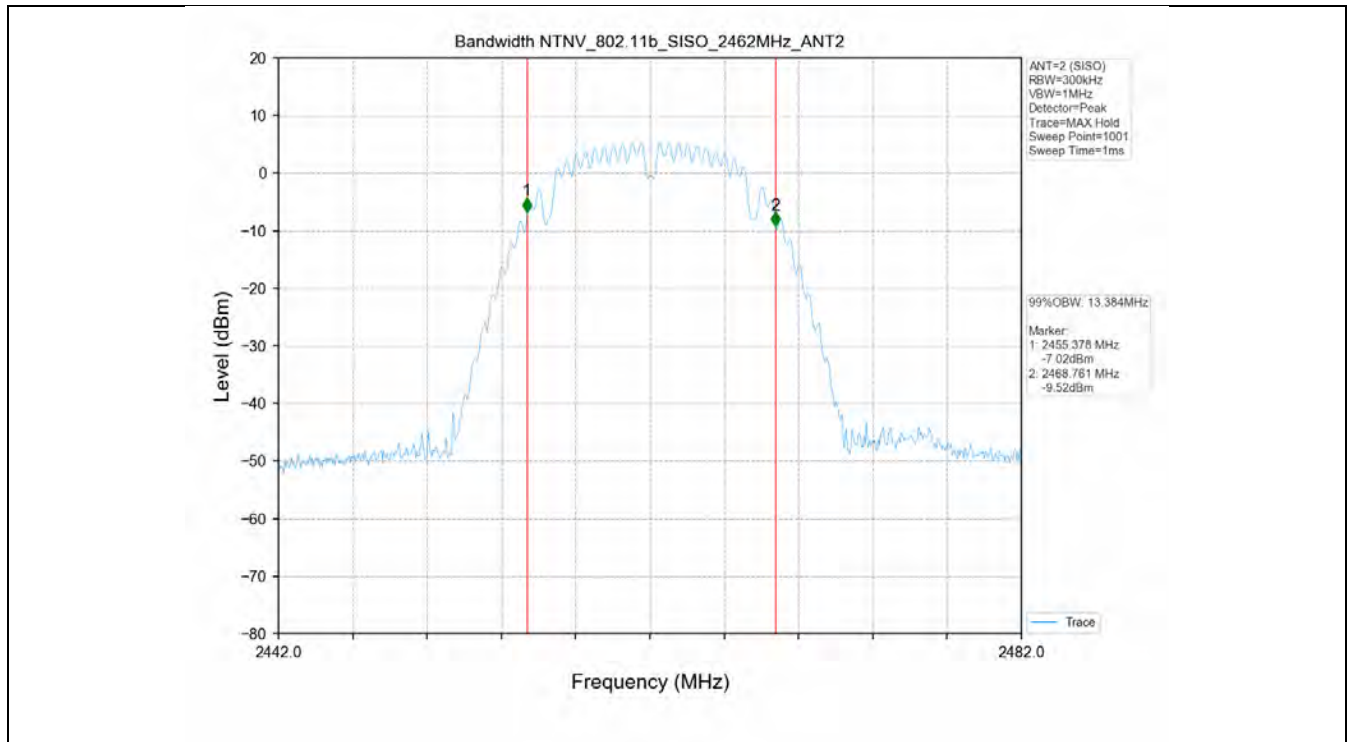


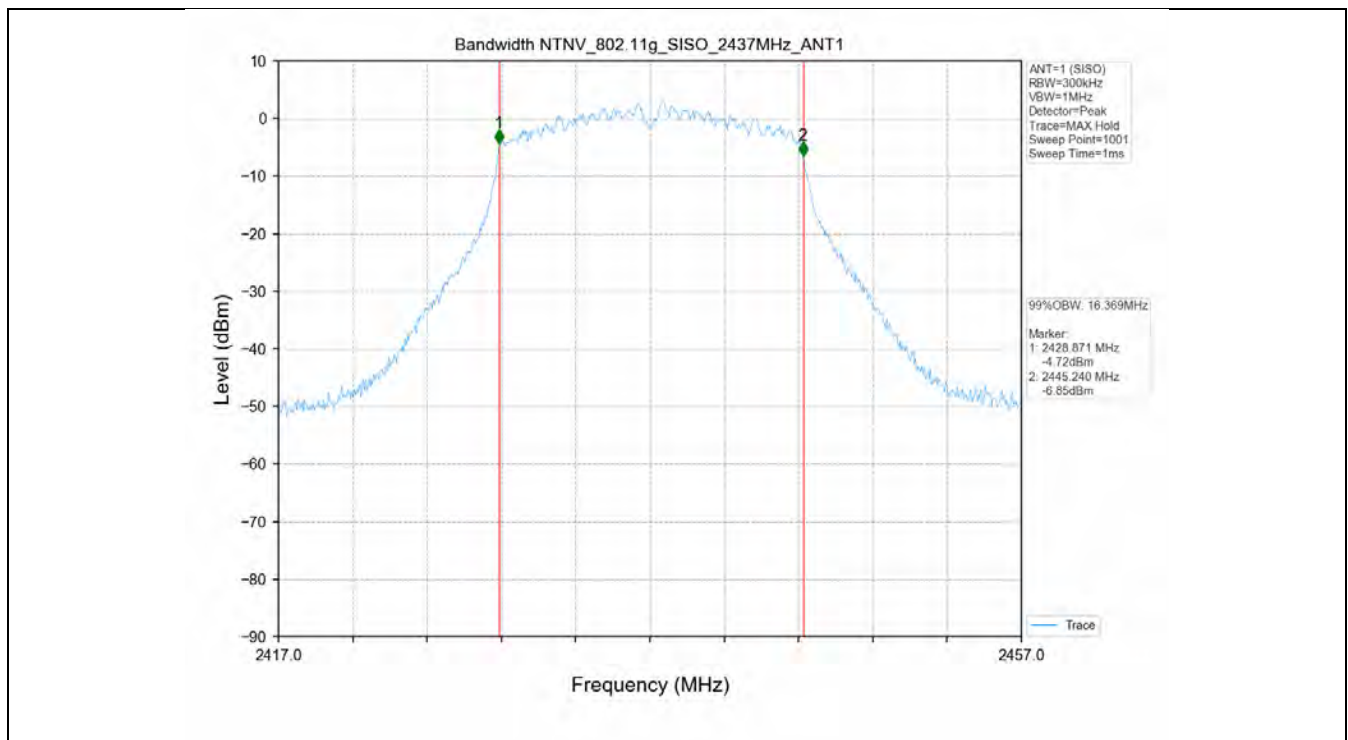
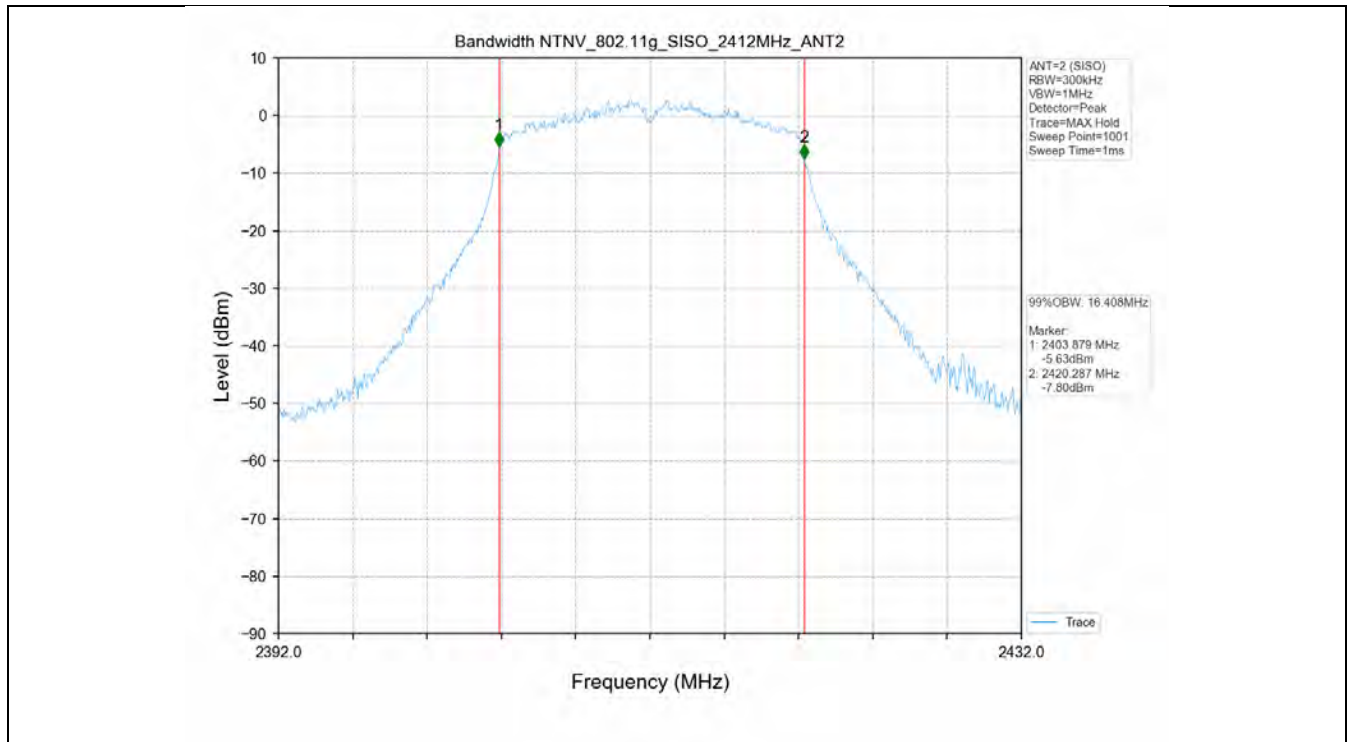
2.3 Test Graph - 99% Occupied Bandwidth

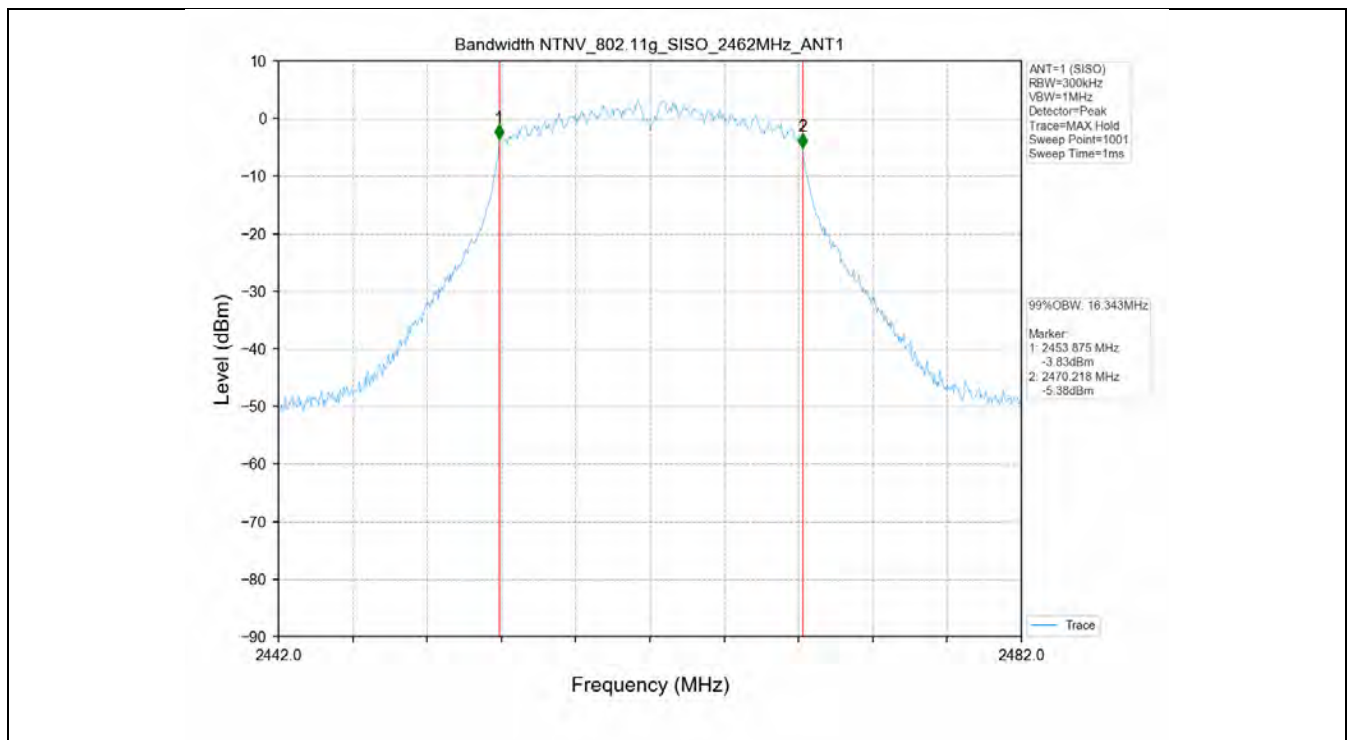
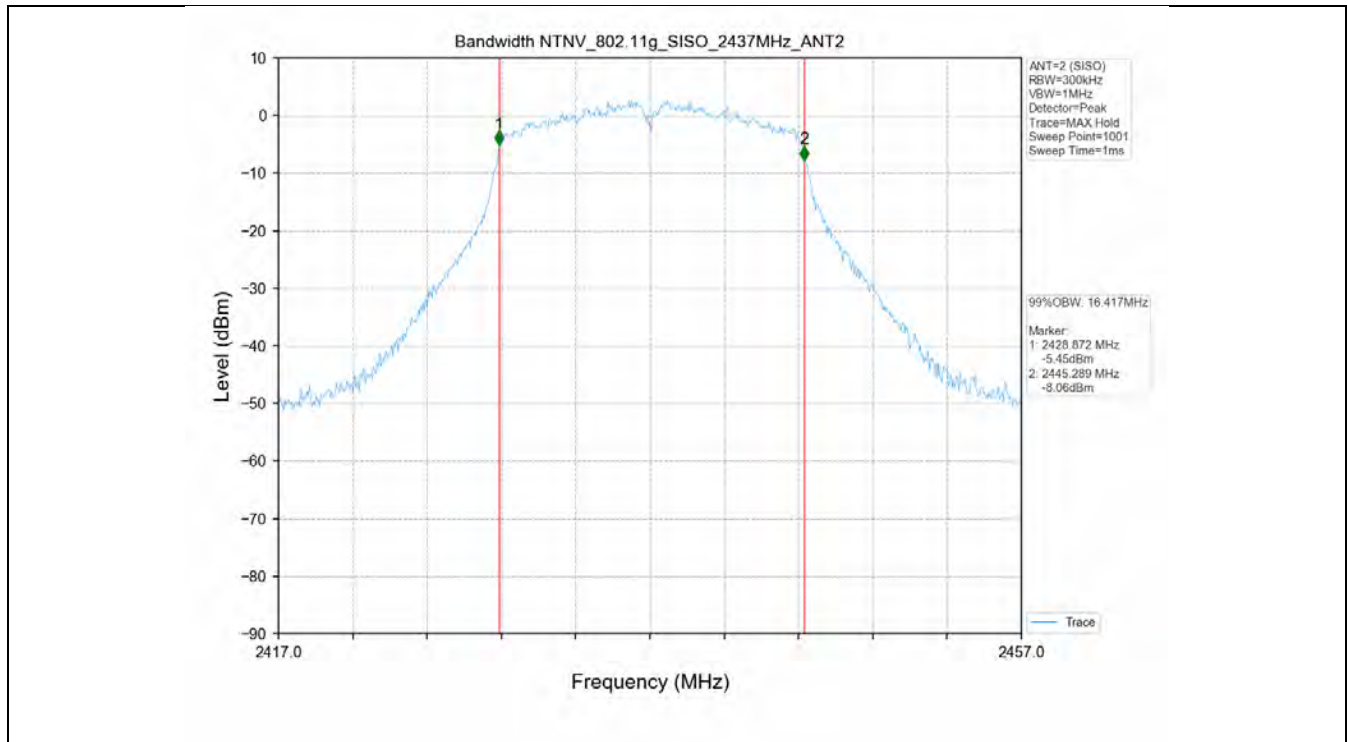


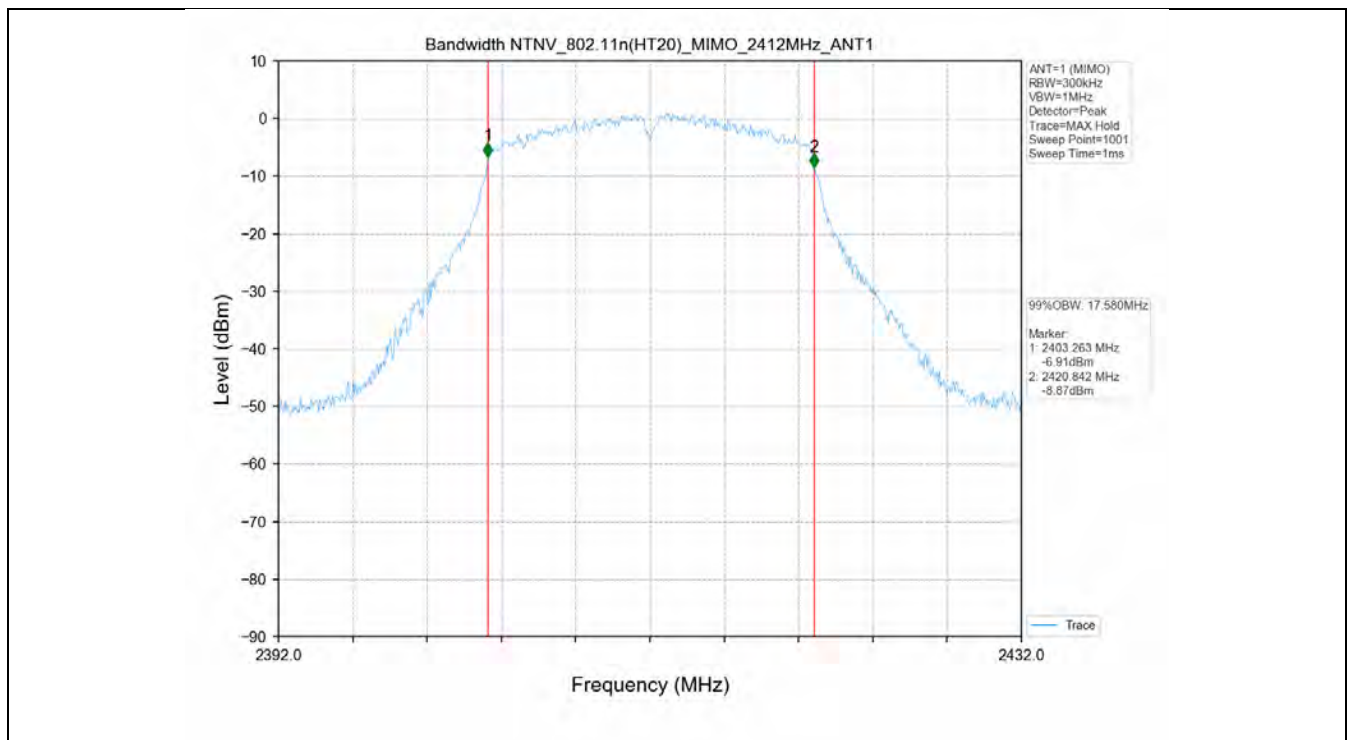
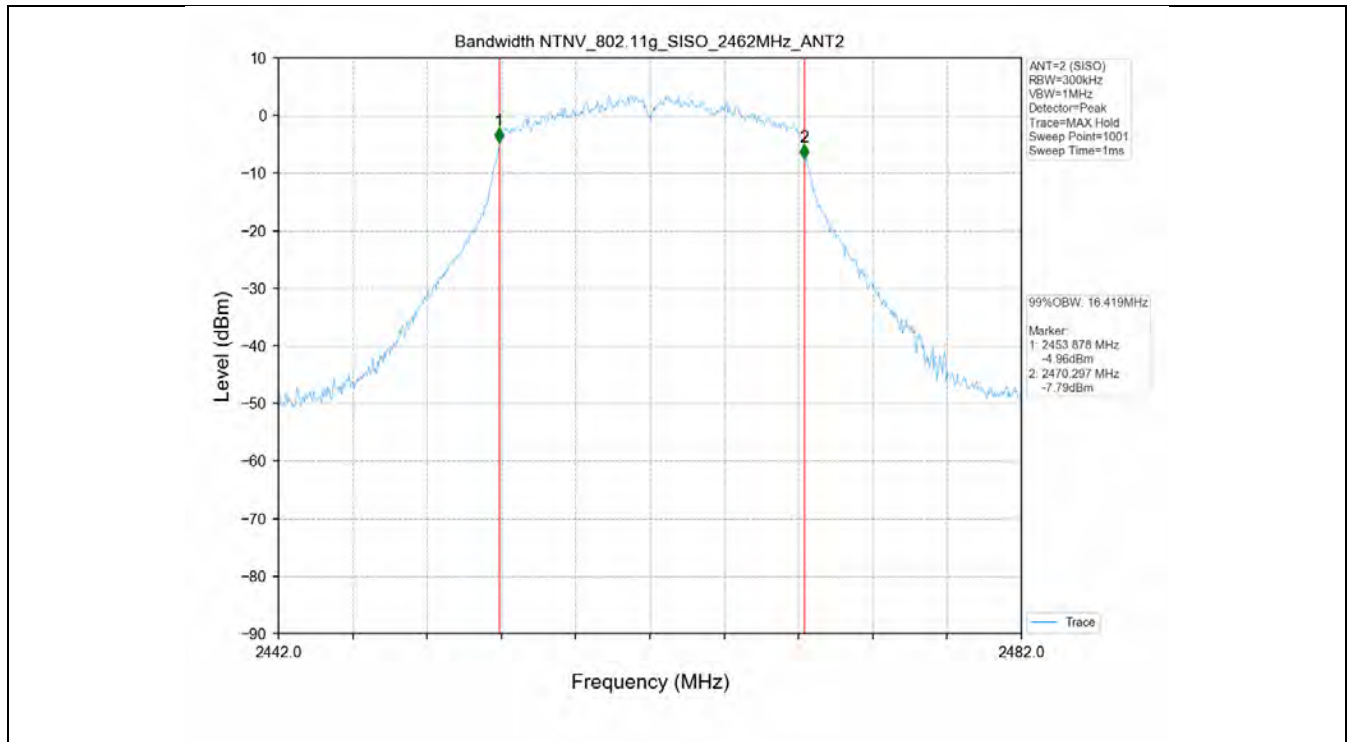


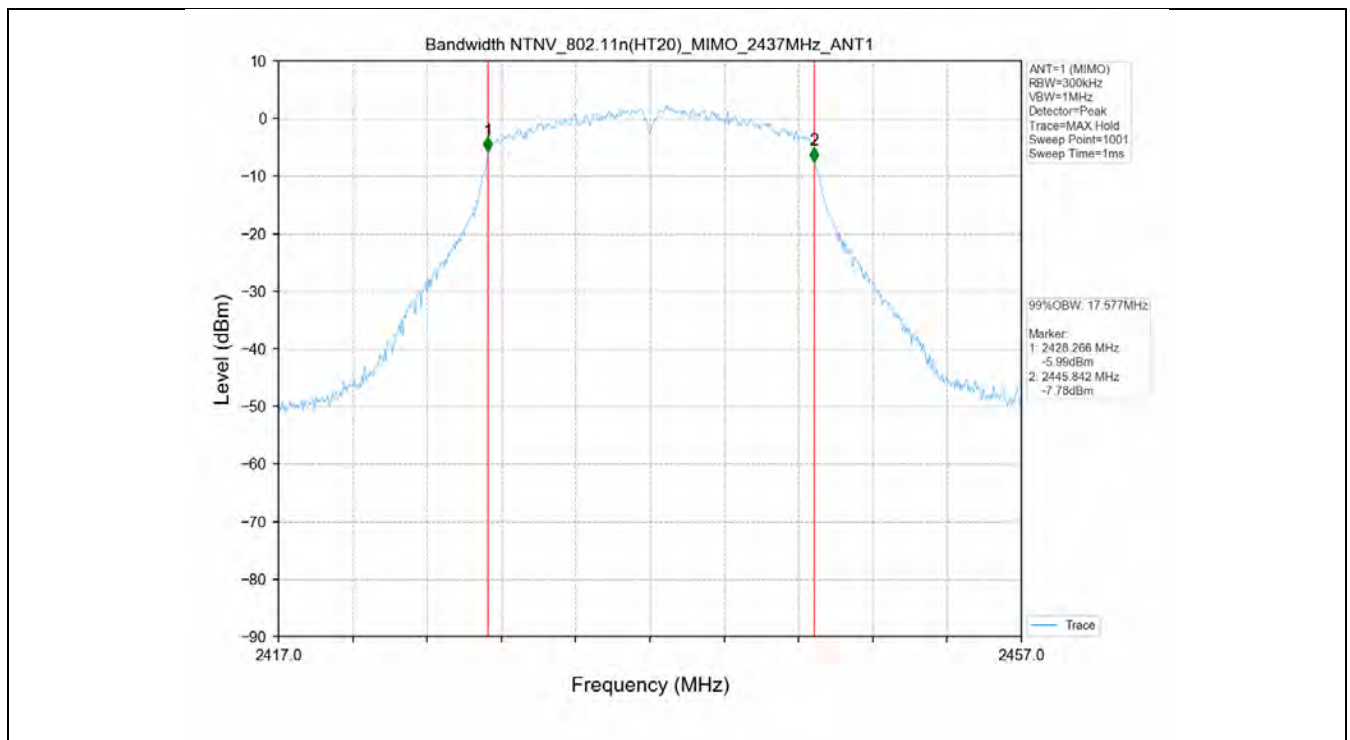
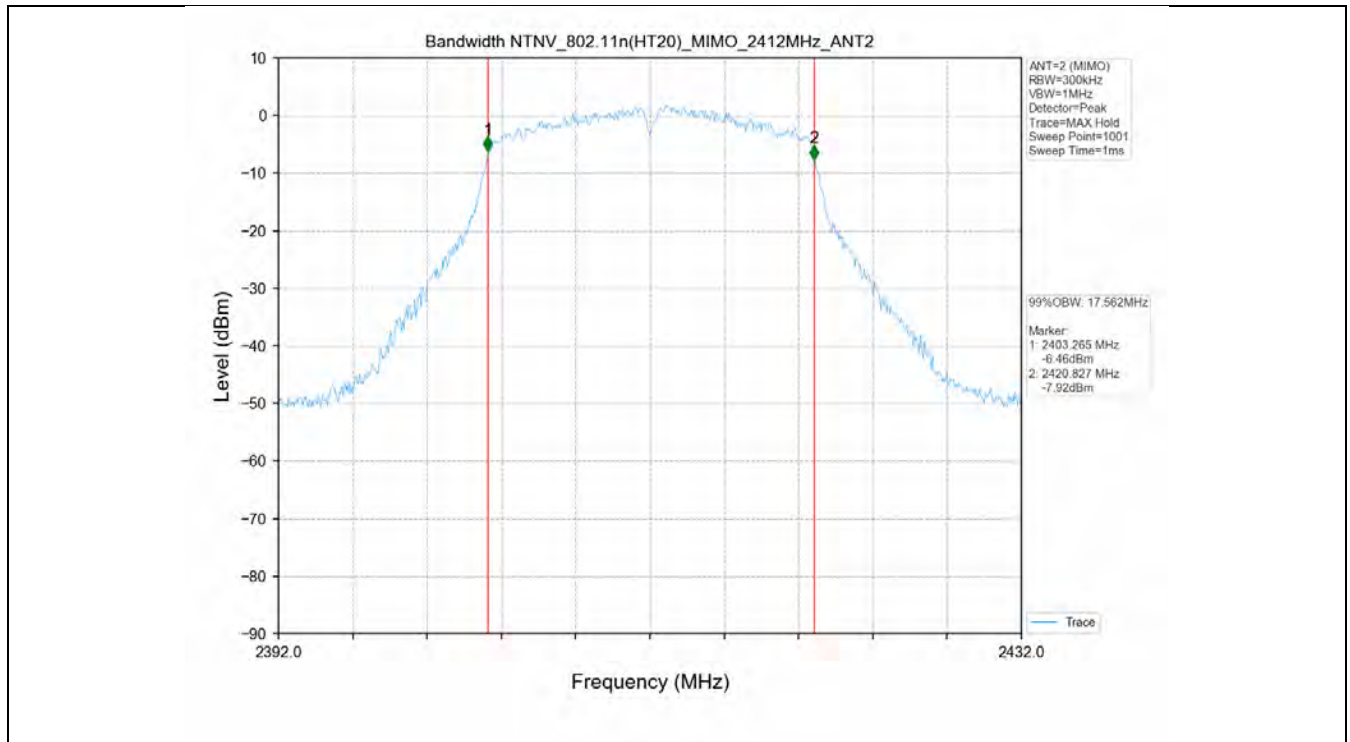


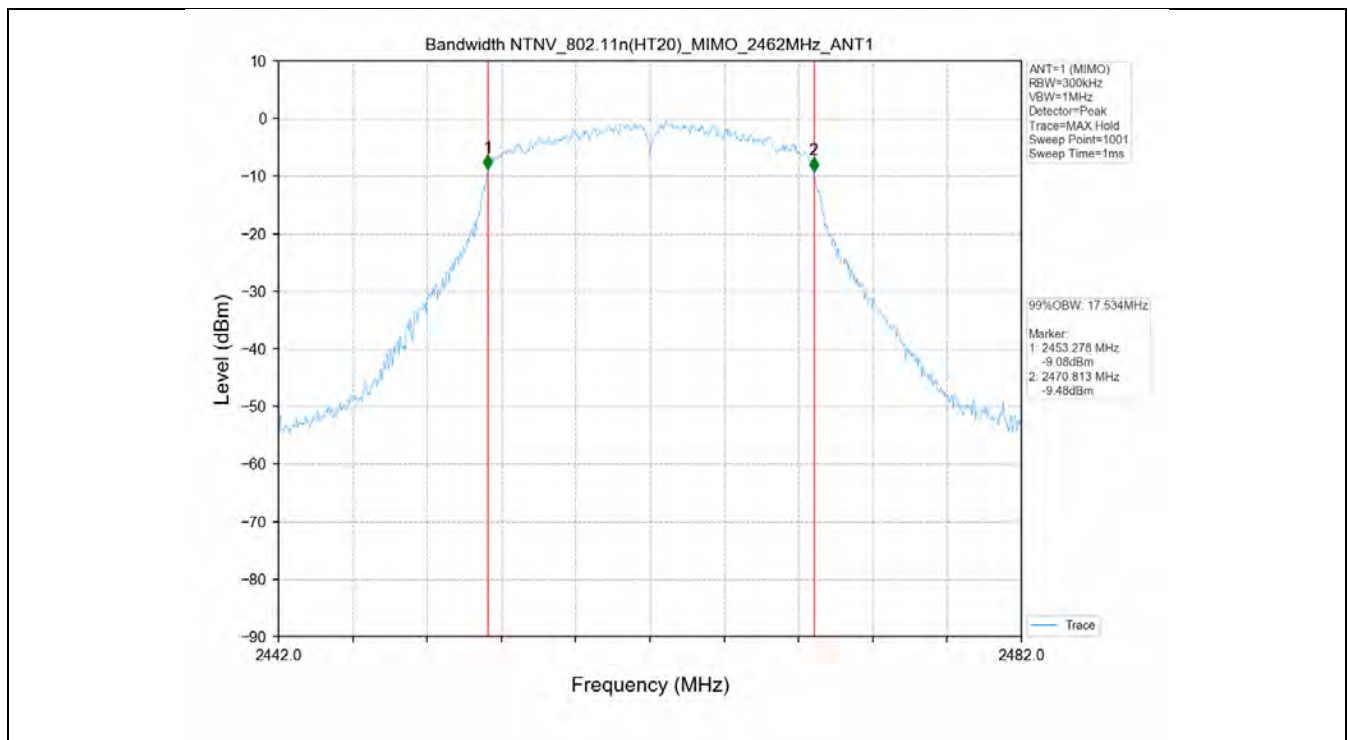
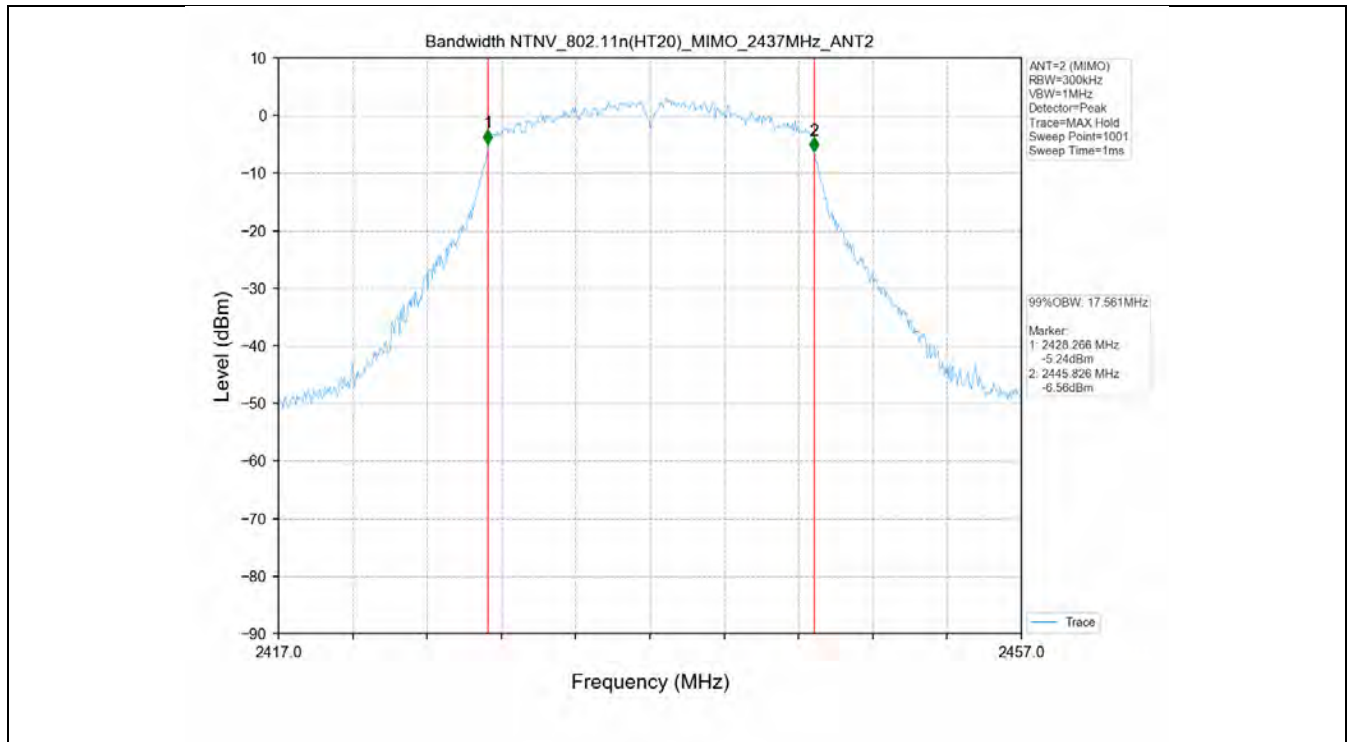


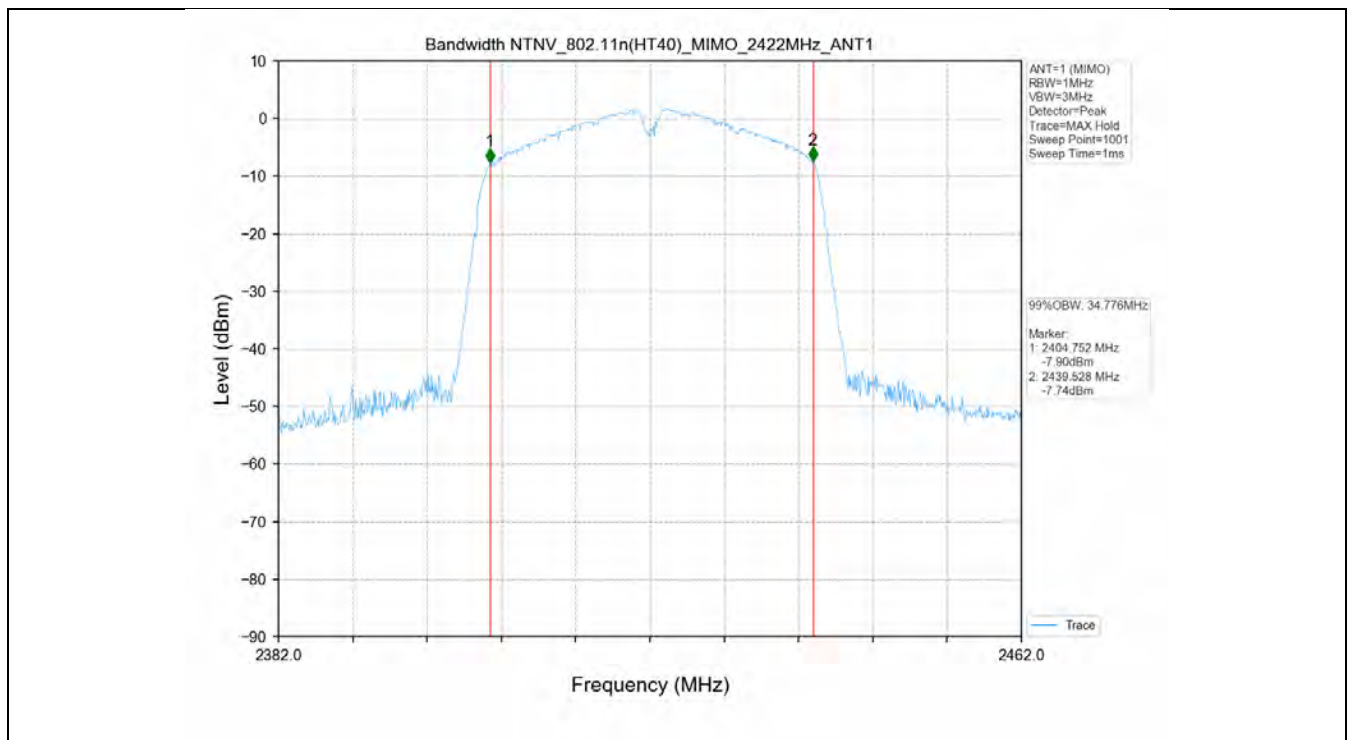
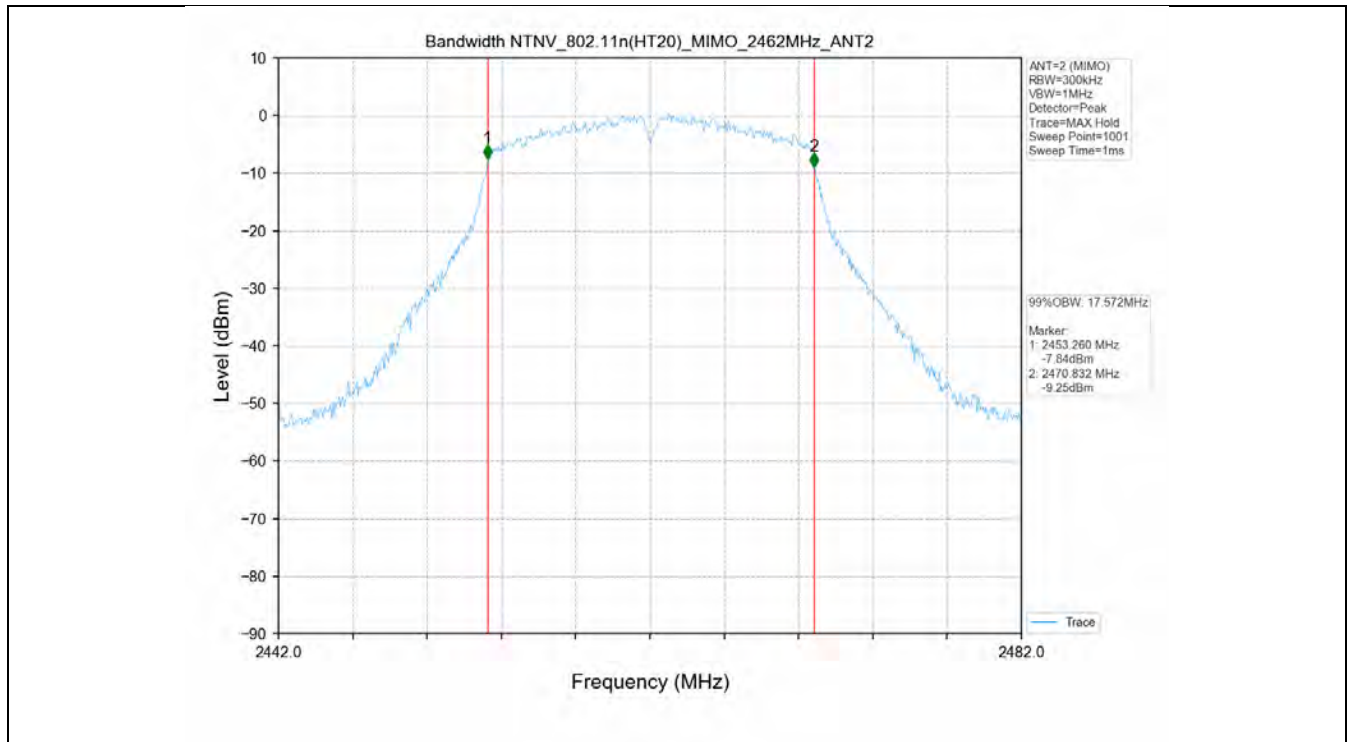


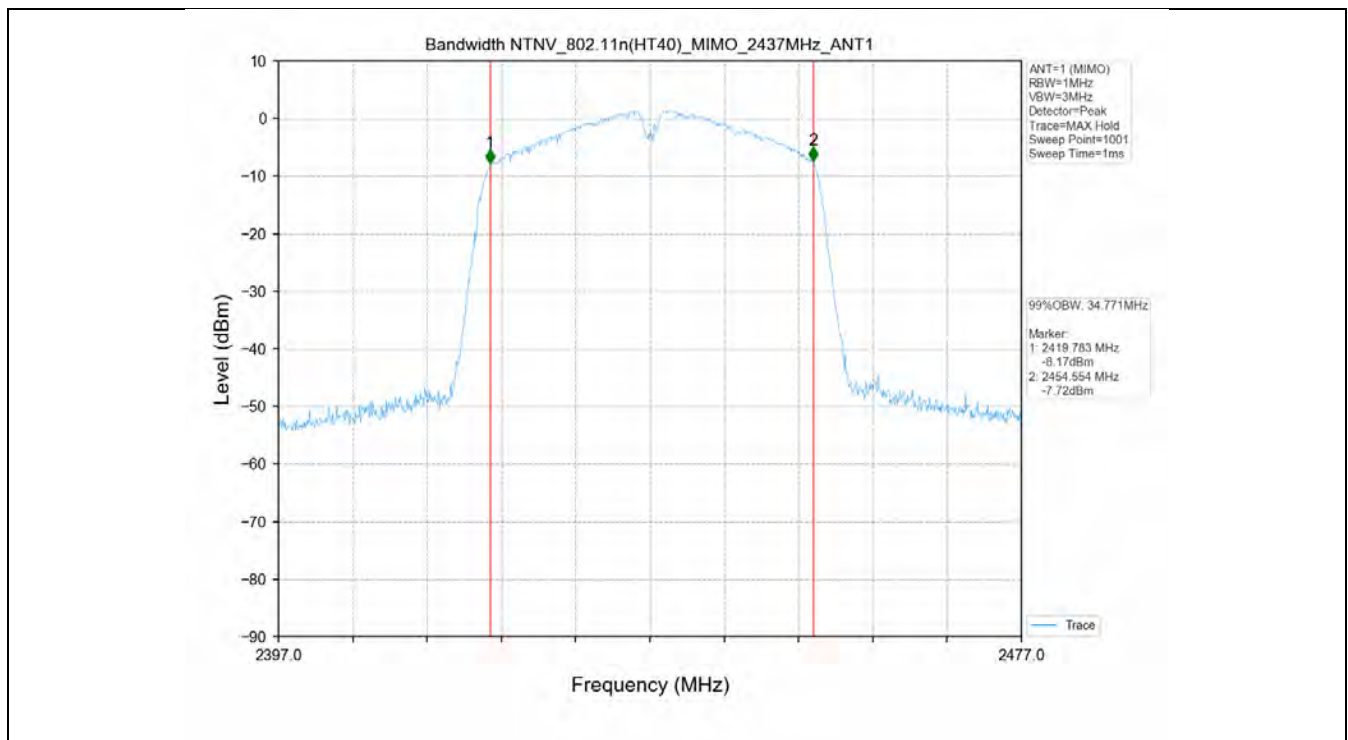
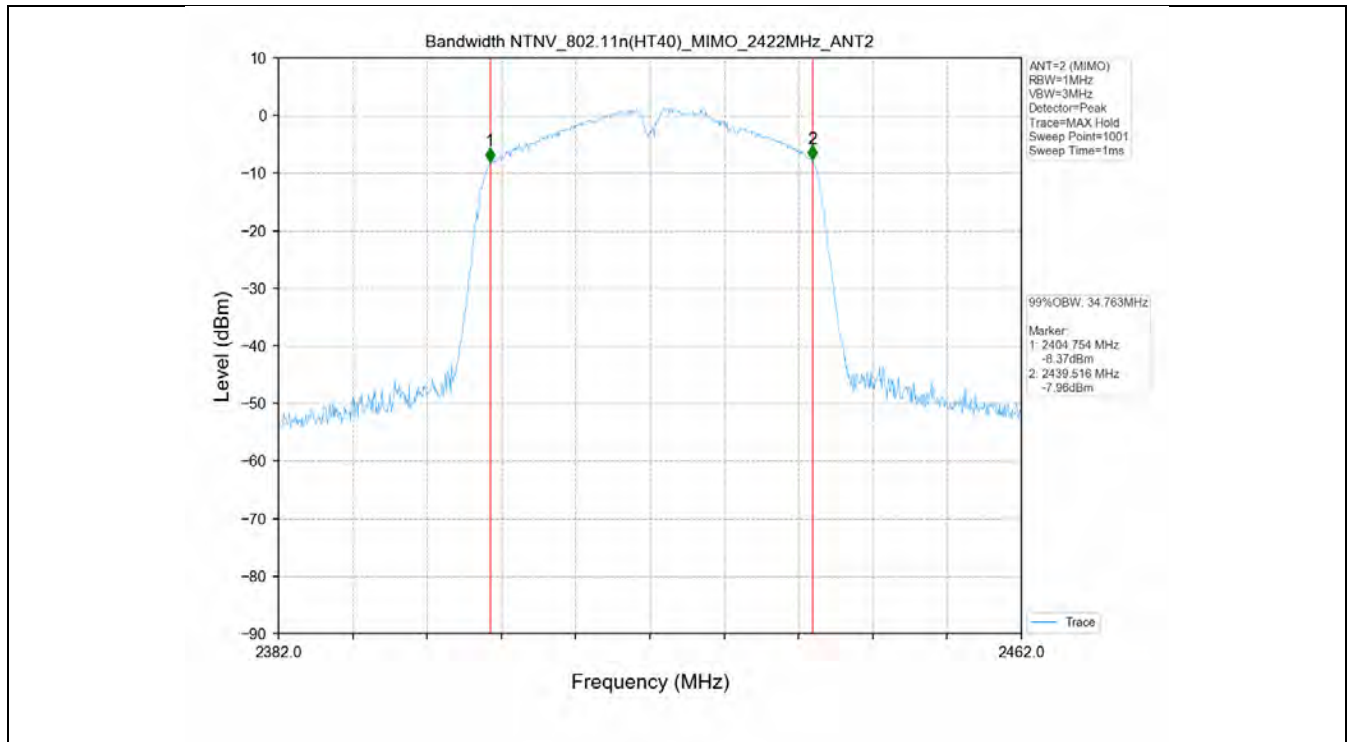


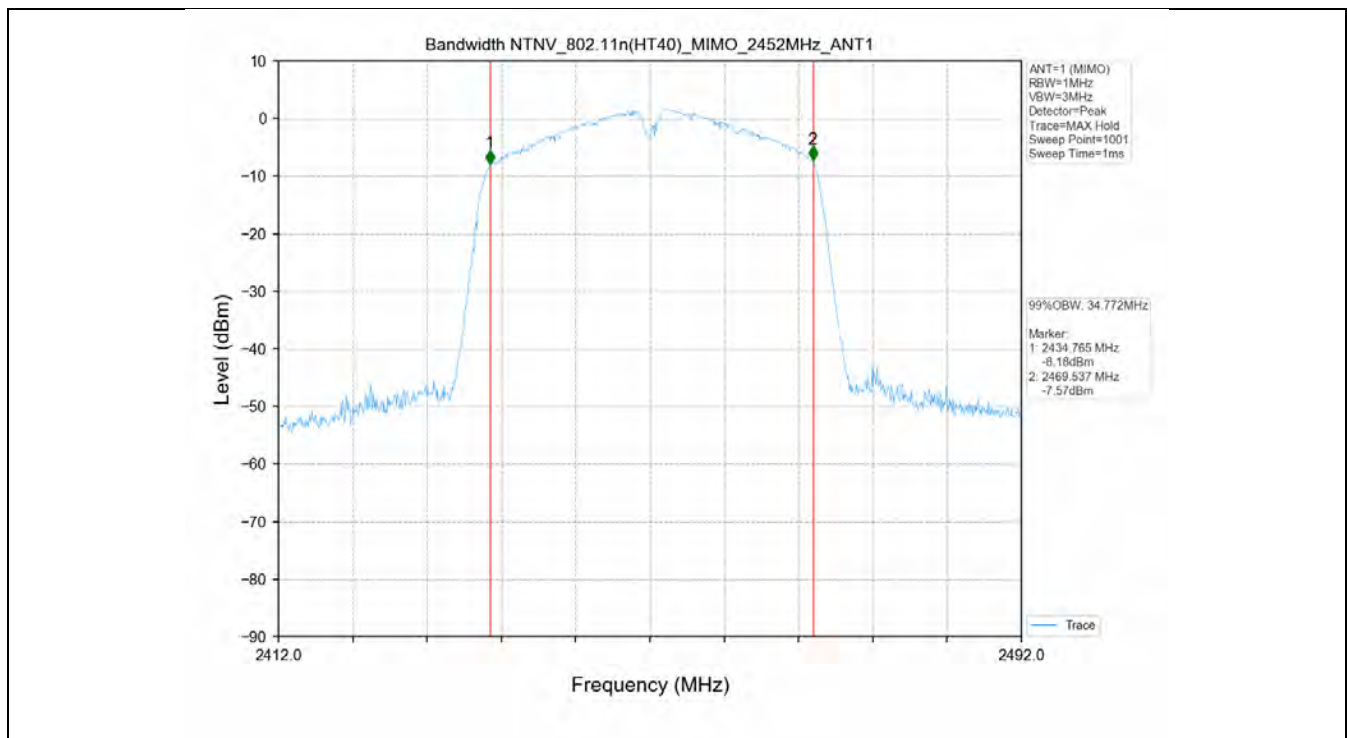
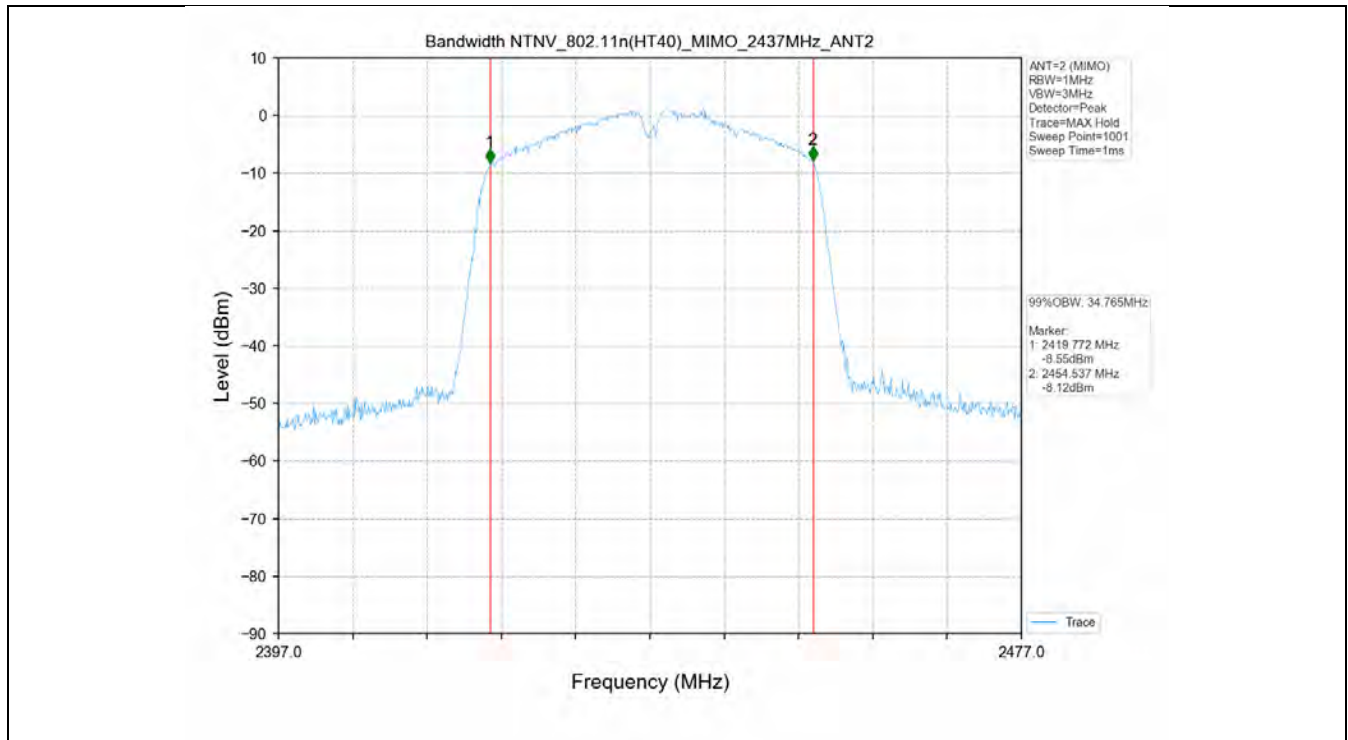


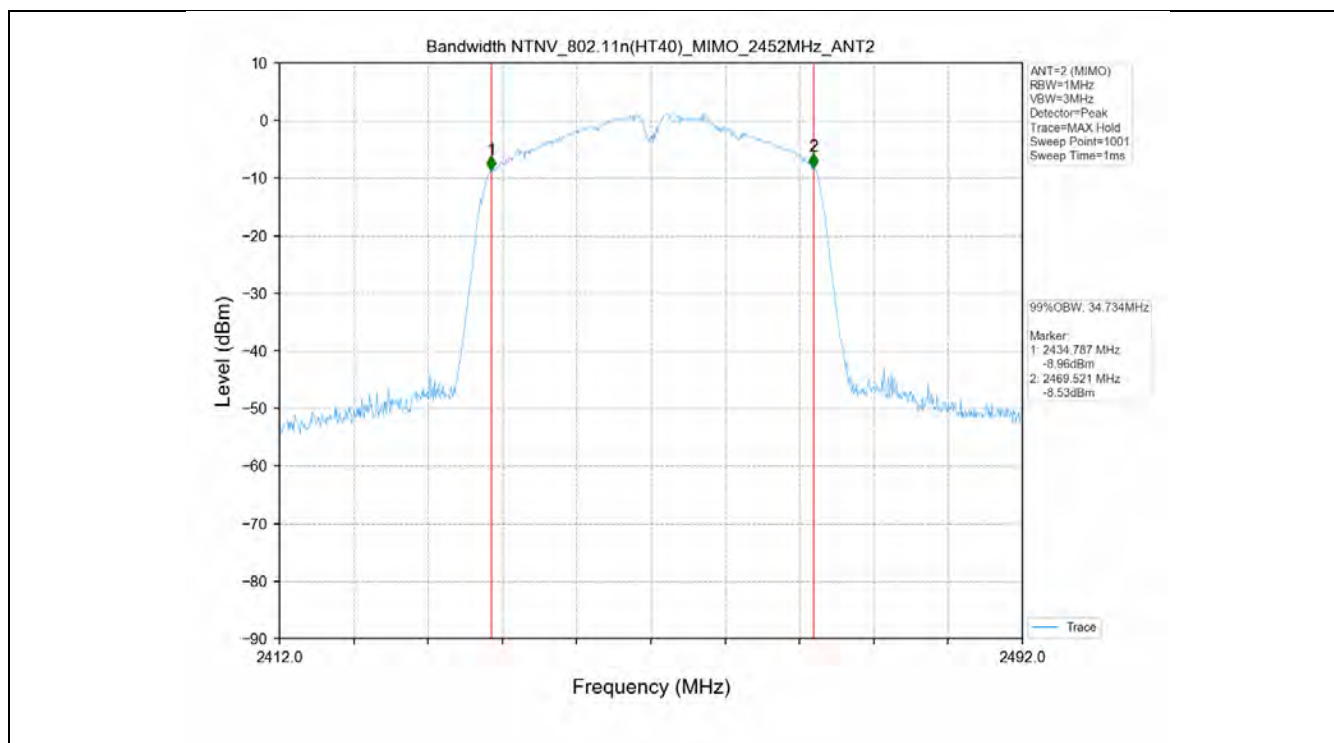










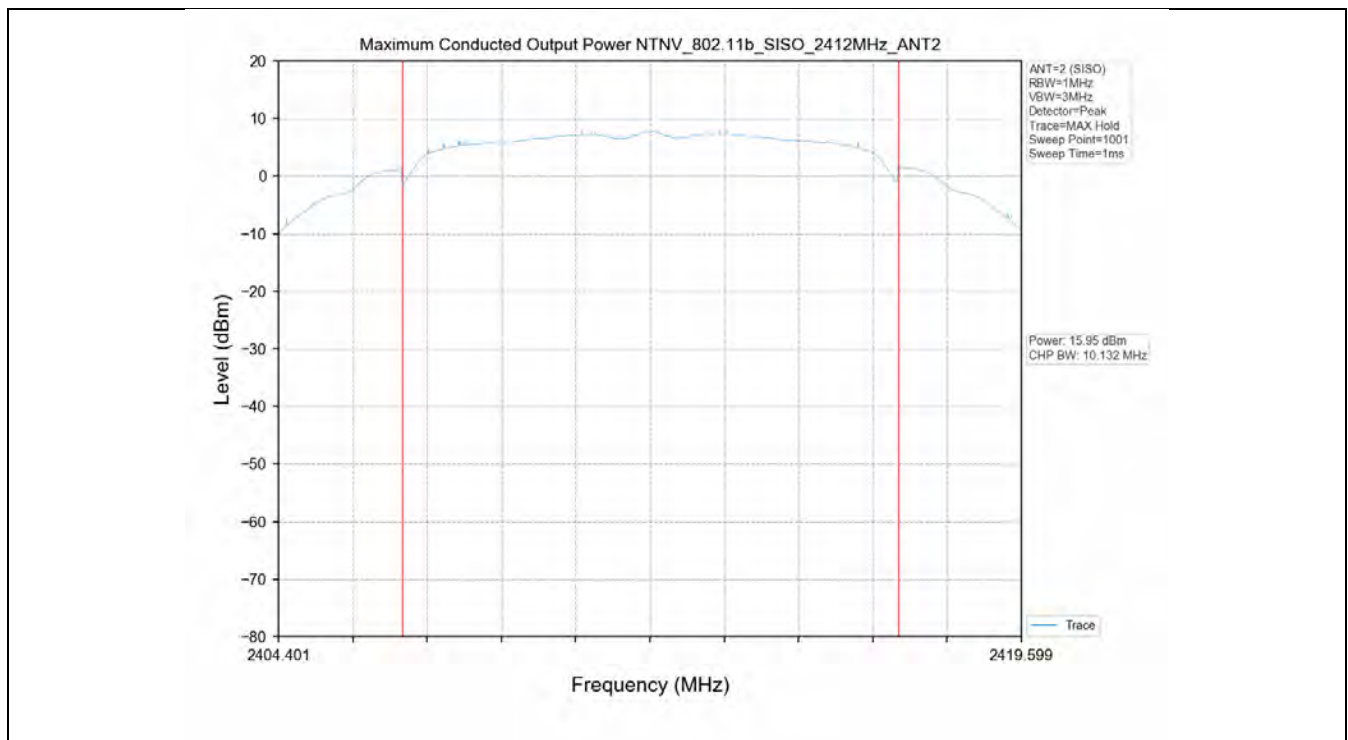
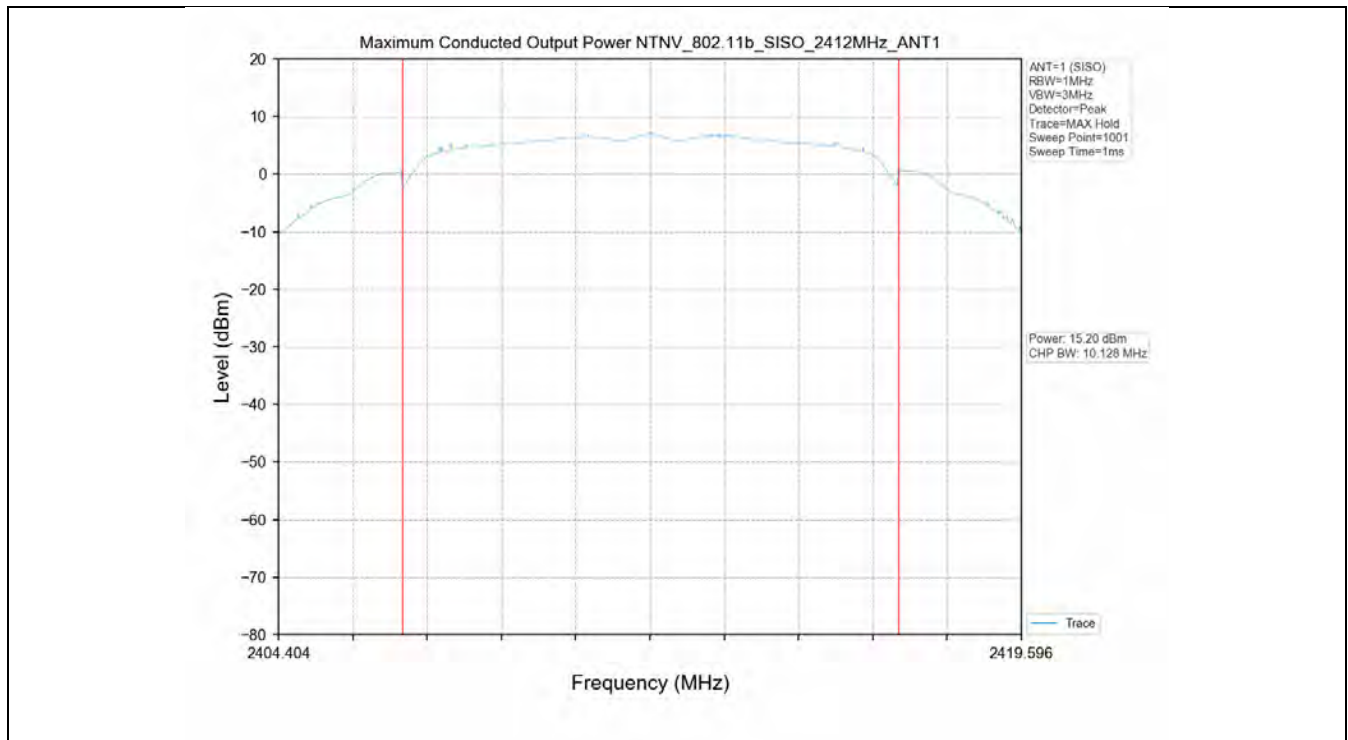


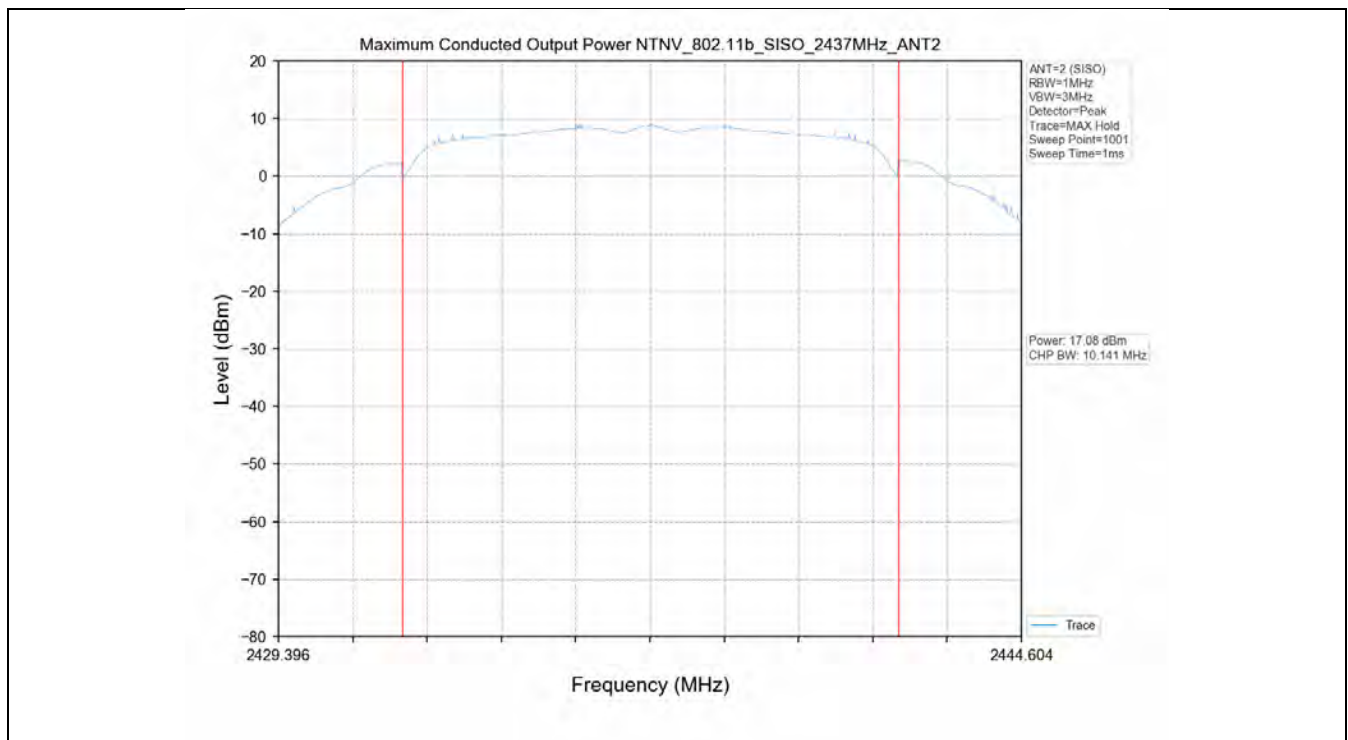
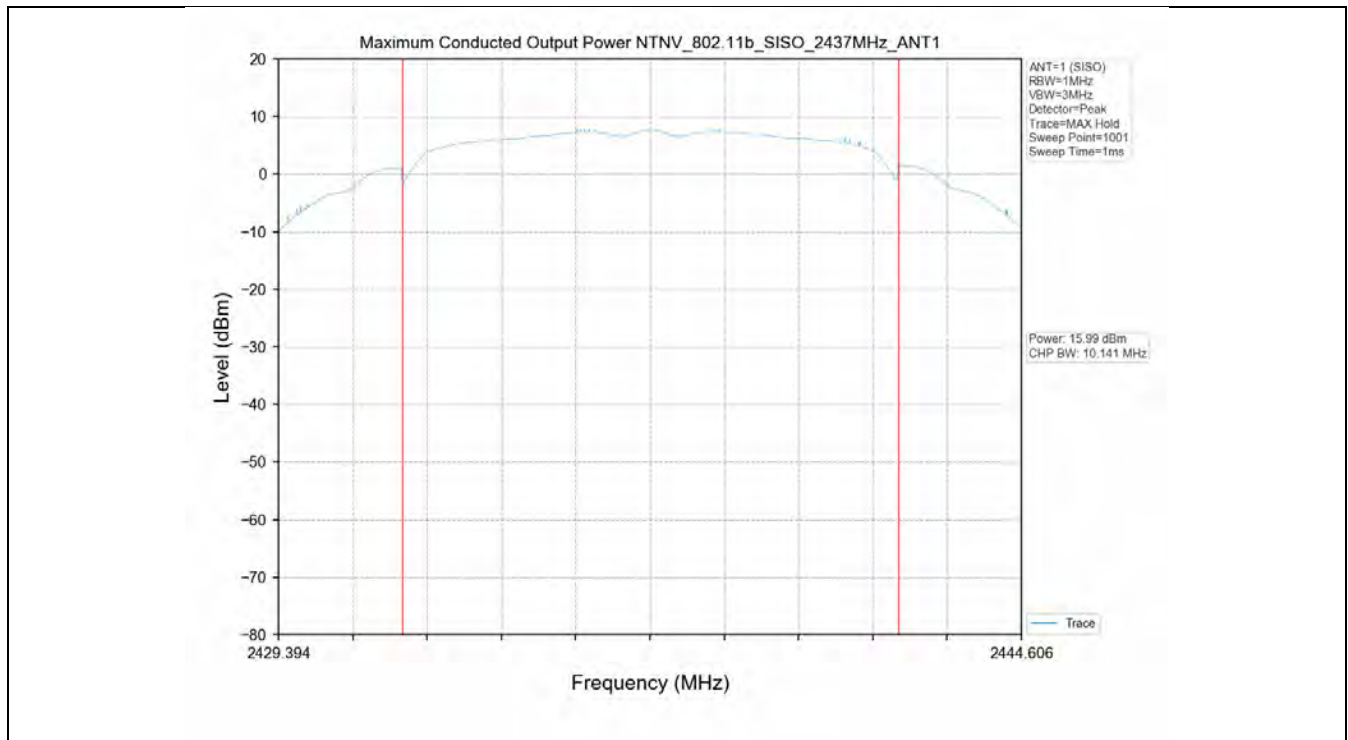
3. Maximum Conducted Output Power

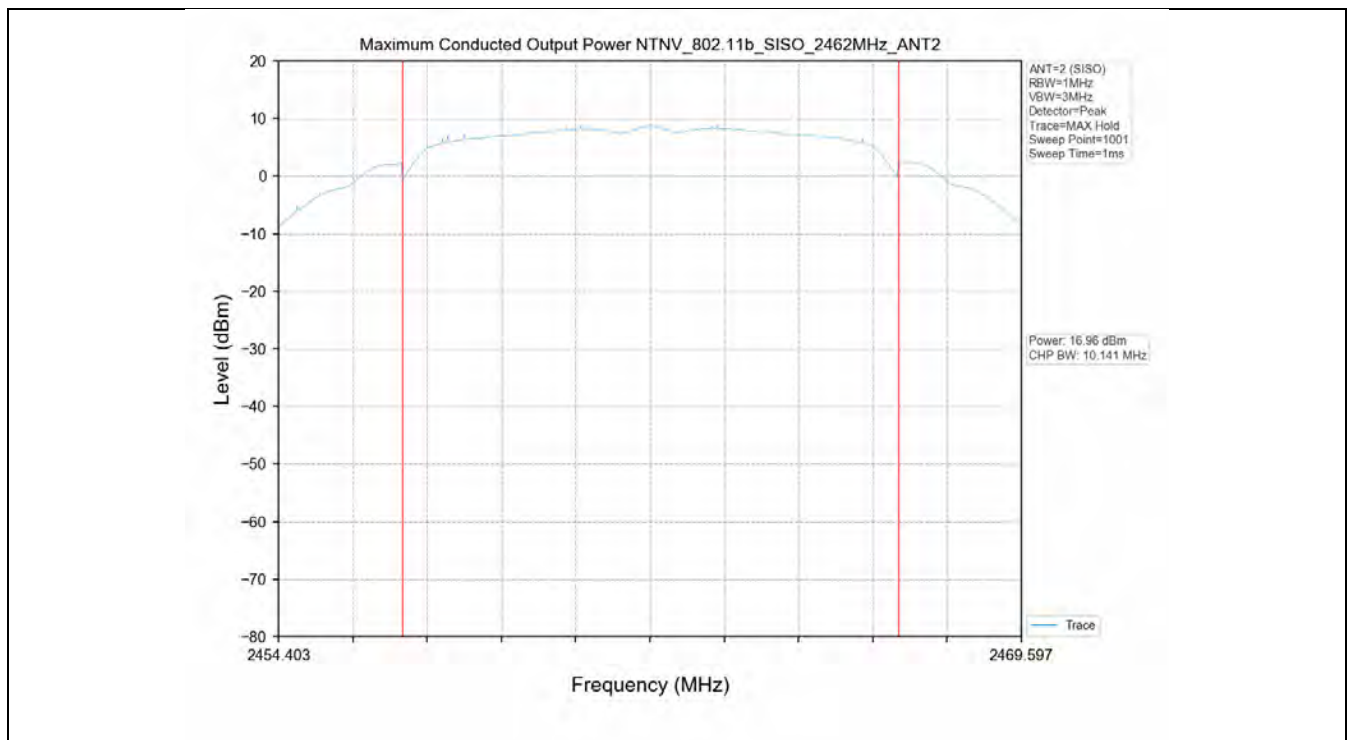
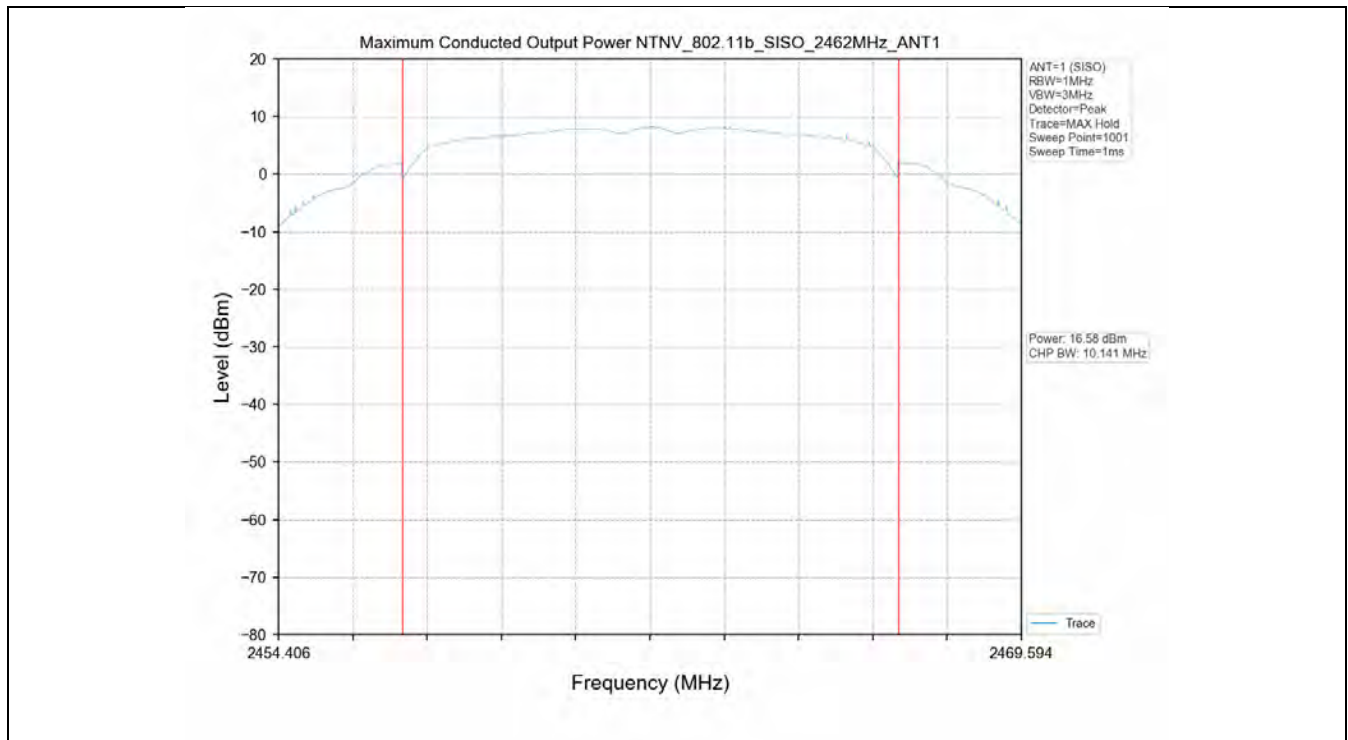
3.1 Test Result

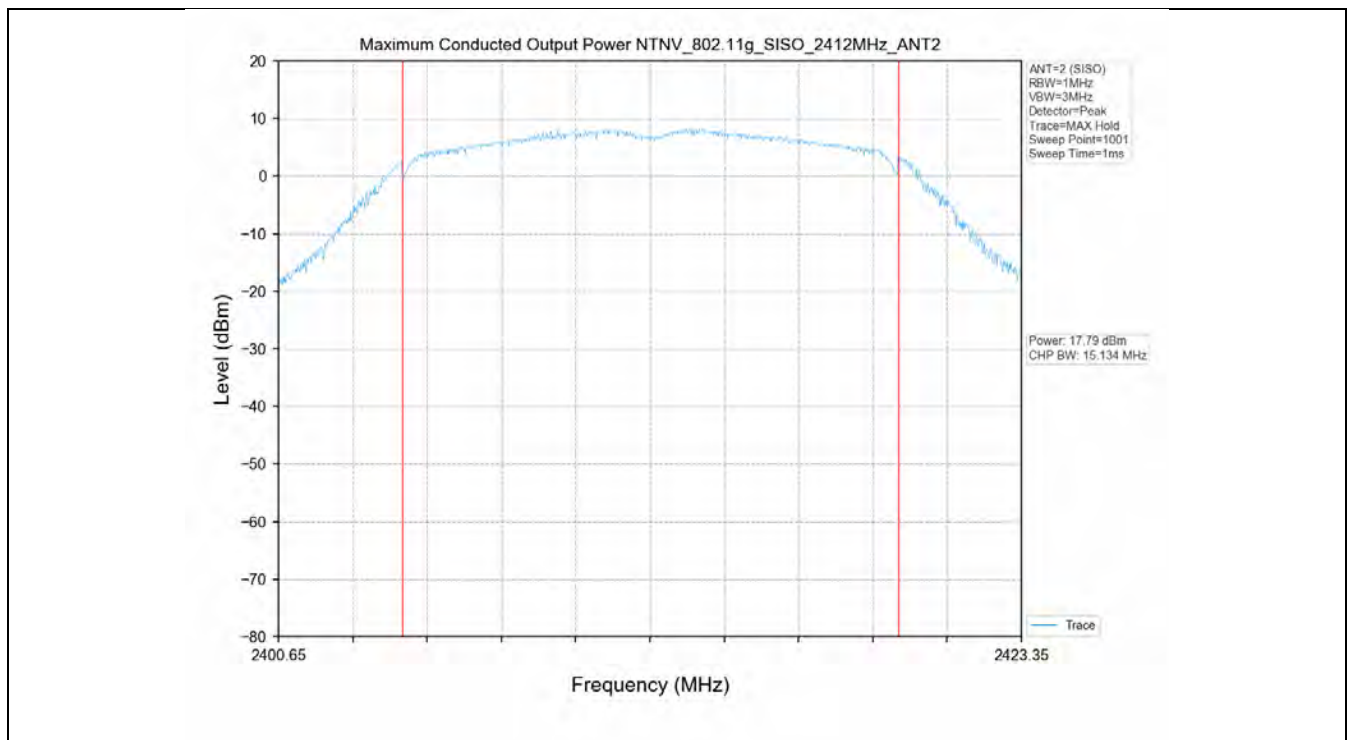
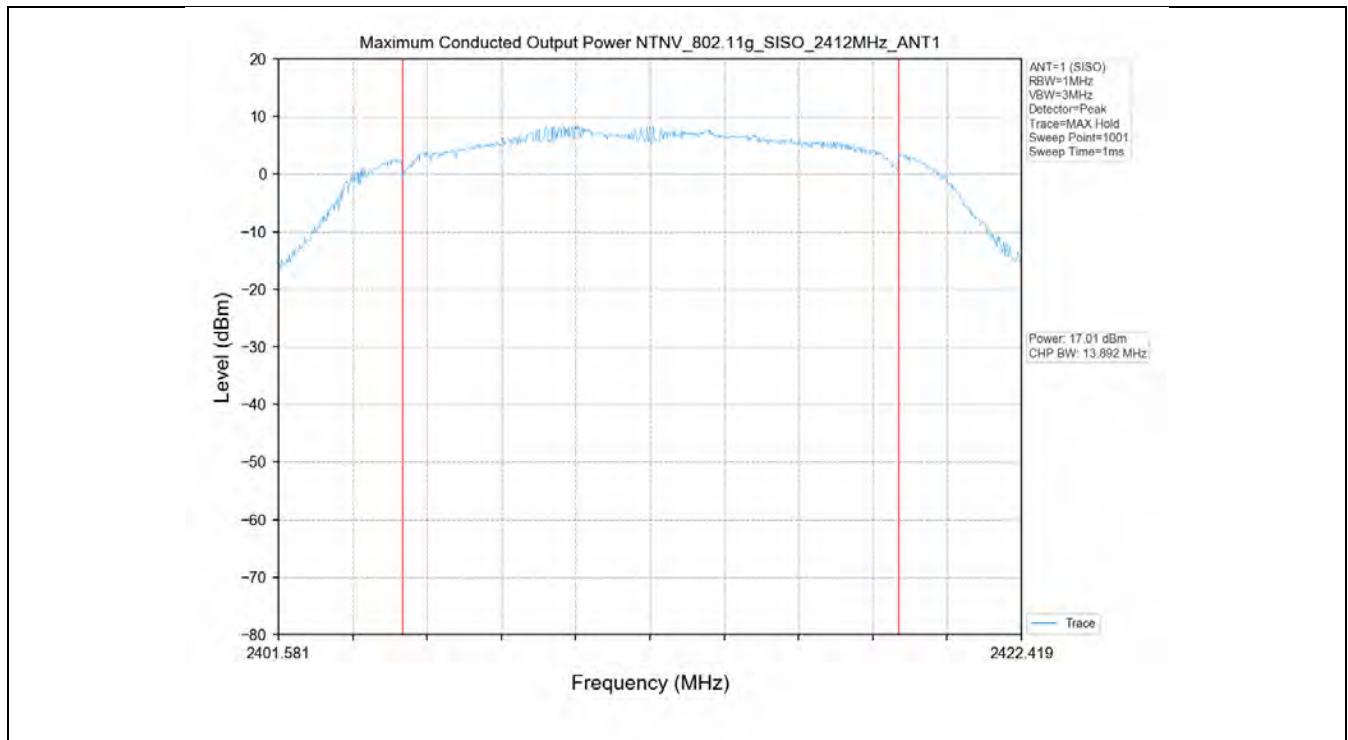
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	15.20	15.95	/	30	PASS
	2437	SISO	15.99	17.08	/	30	PASS
	2462	SISO	16.58	16.96	/	30	PASS
802.11g	2412	SISO	17.01	17.79	/	30	PASS
	2437	SISO	17.64	17.70	/	30	PASS
	2462	SISO	16.86	17.54	/	30	PASS
802.11n(HT20)	2412	MIMO	13.52	14.43	17.01	30	PASS
	2437	MIMO	14.27	15.02	17.67	30	PASS
	2462	MIMO	14.88	15.65	18.29	30	PASS
802.11n(HT40)	2422	MIMO	13.13	12.62	15.89	30	PASS
	2437	MIMO	12.71	12.53	15.63	30	PASS
	2452	MIMO	13.18	12.67	15.94	30	PASS

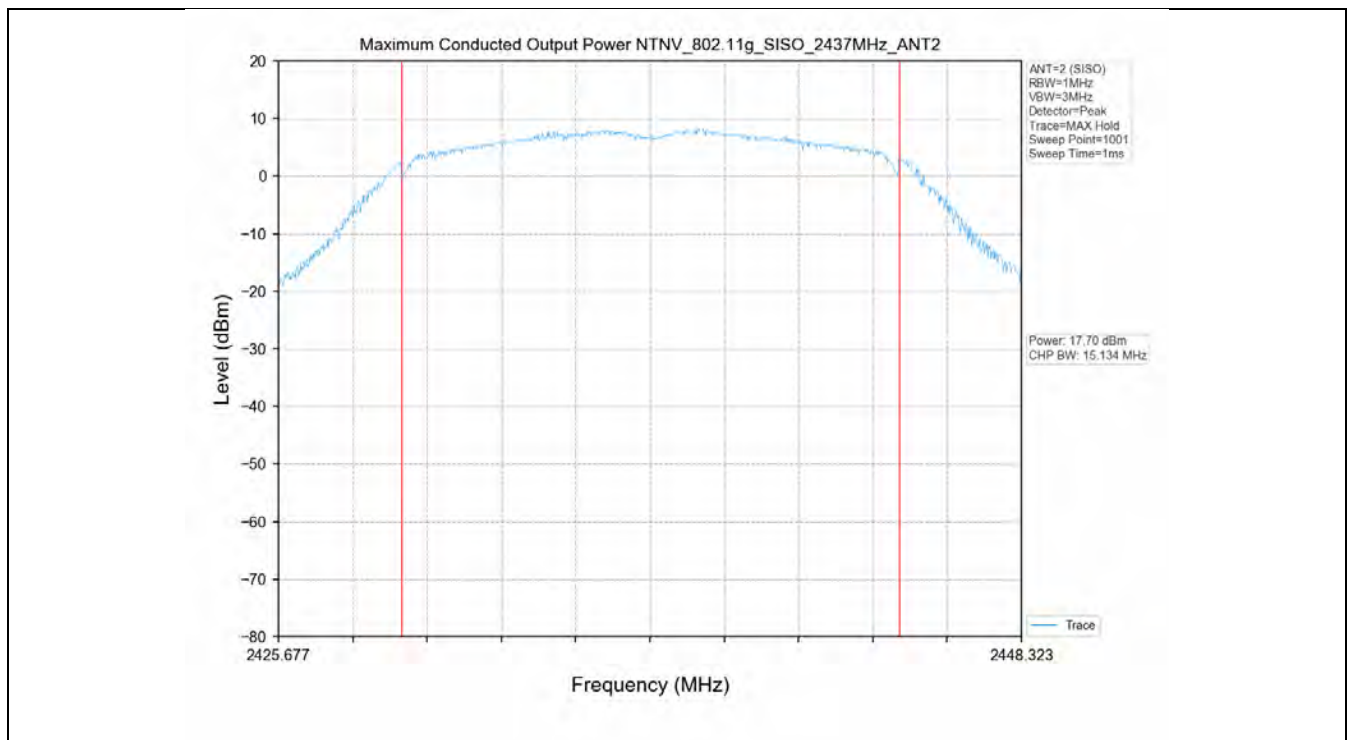
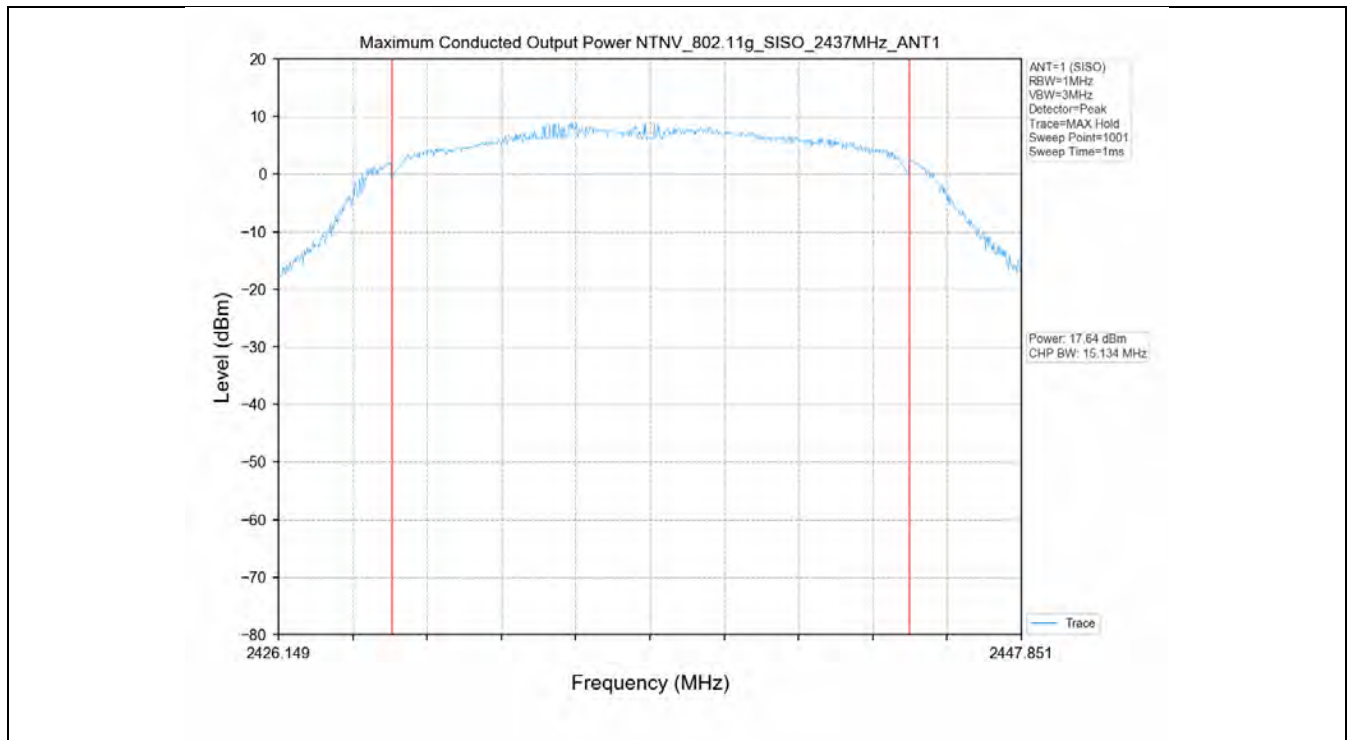
3.2 Test Graph

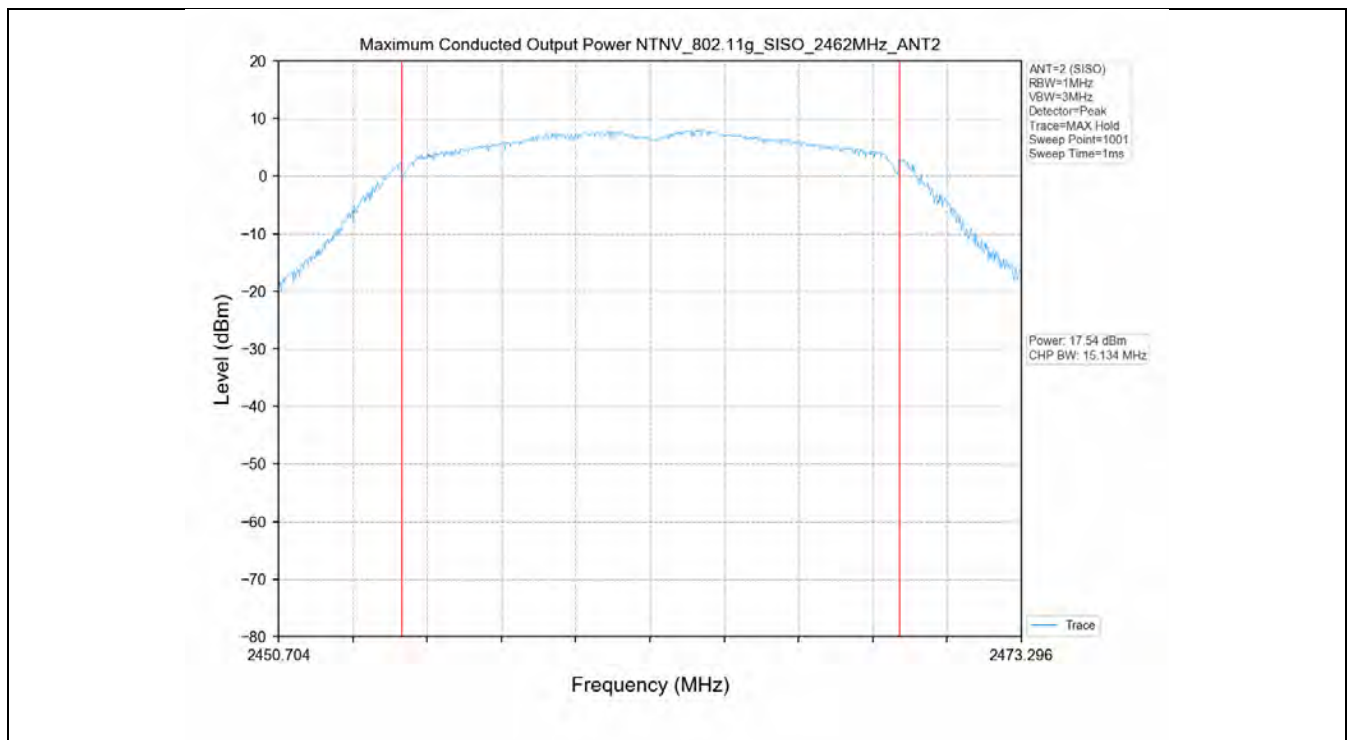
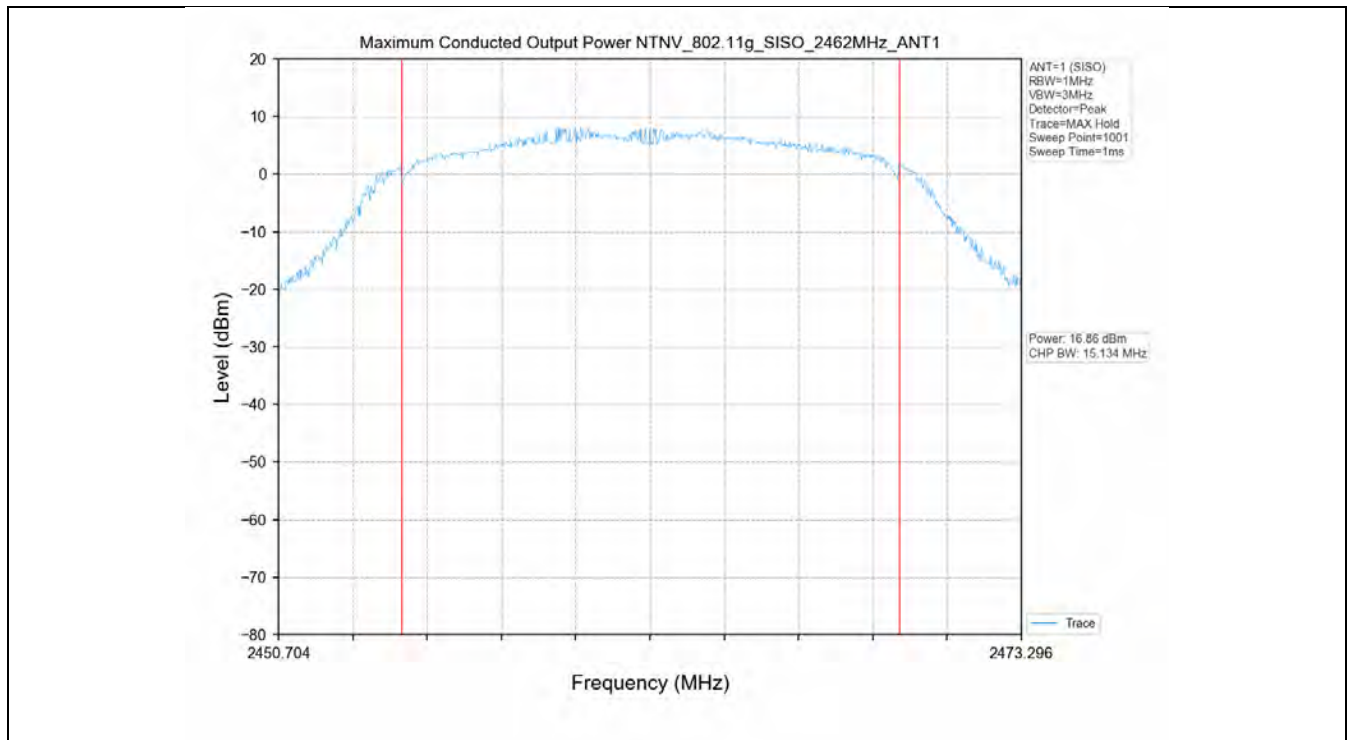


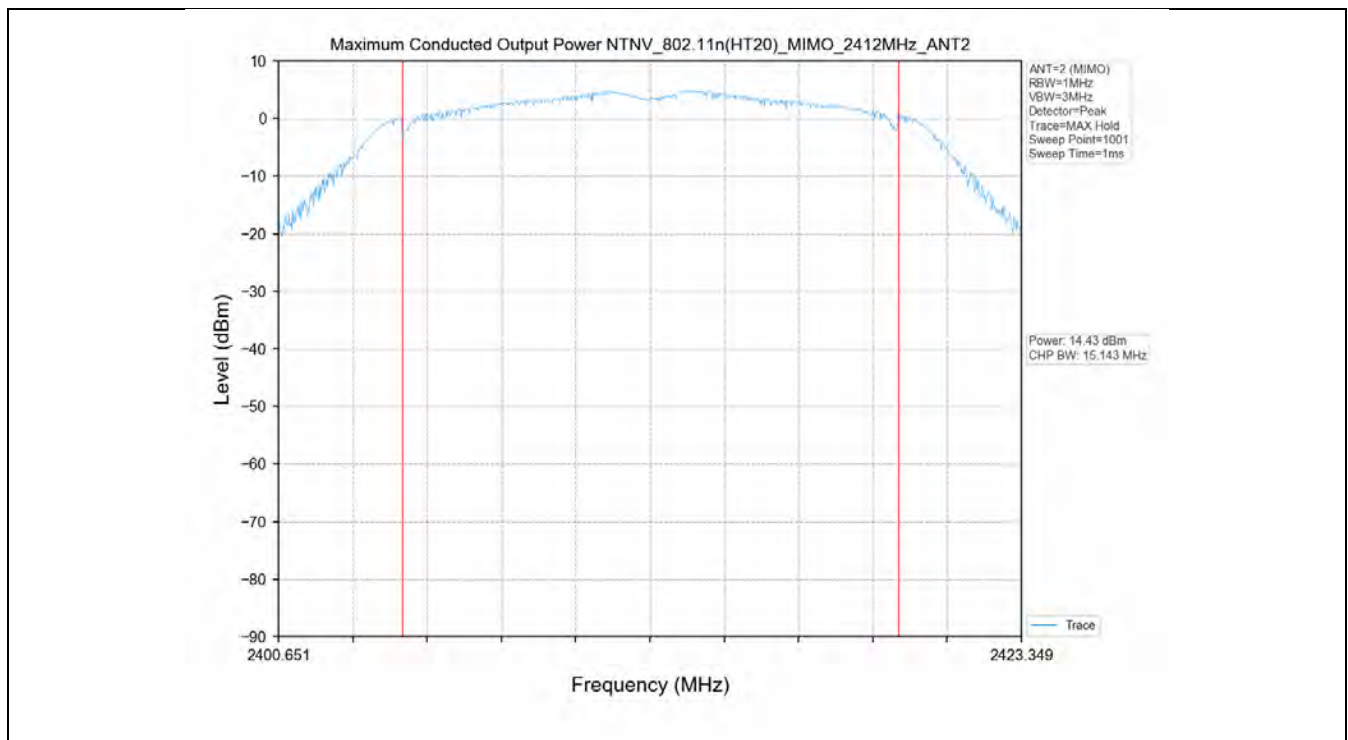
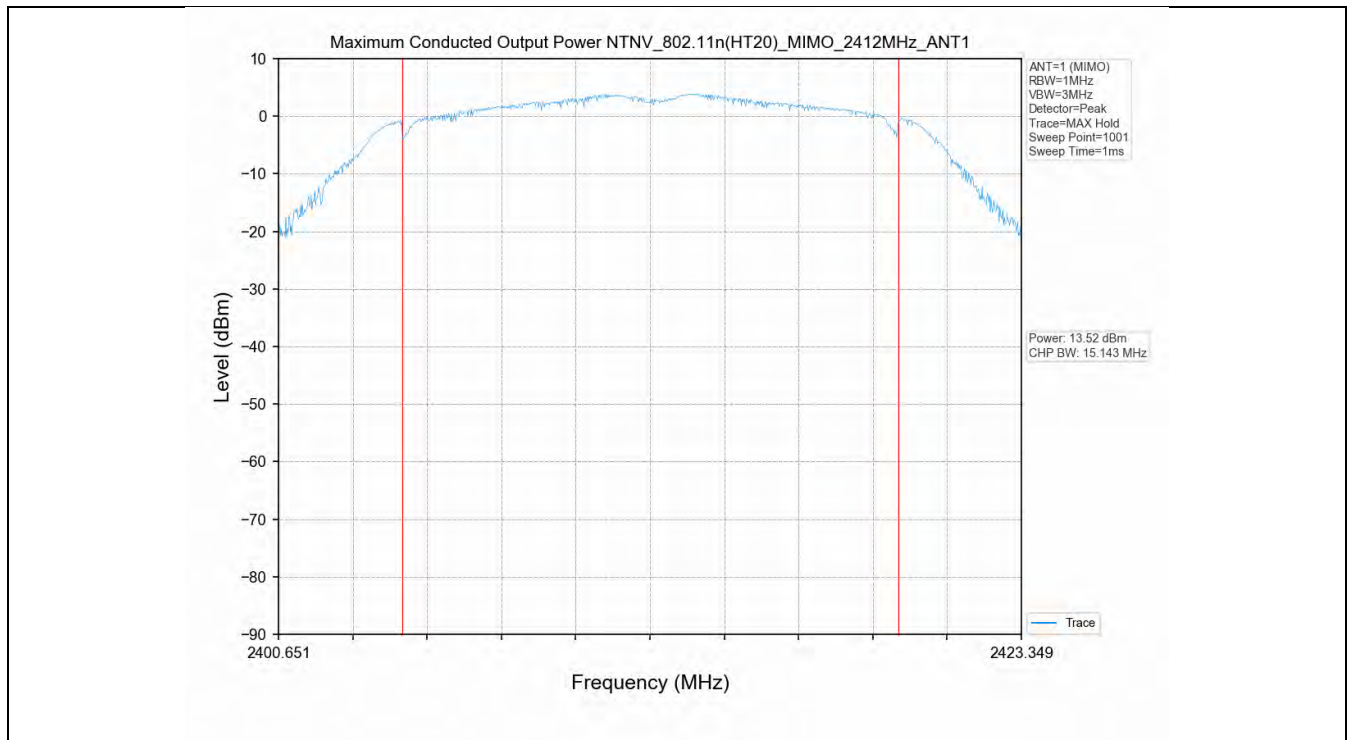


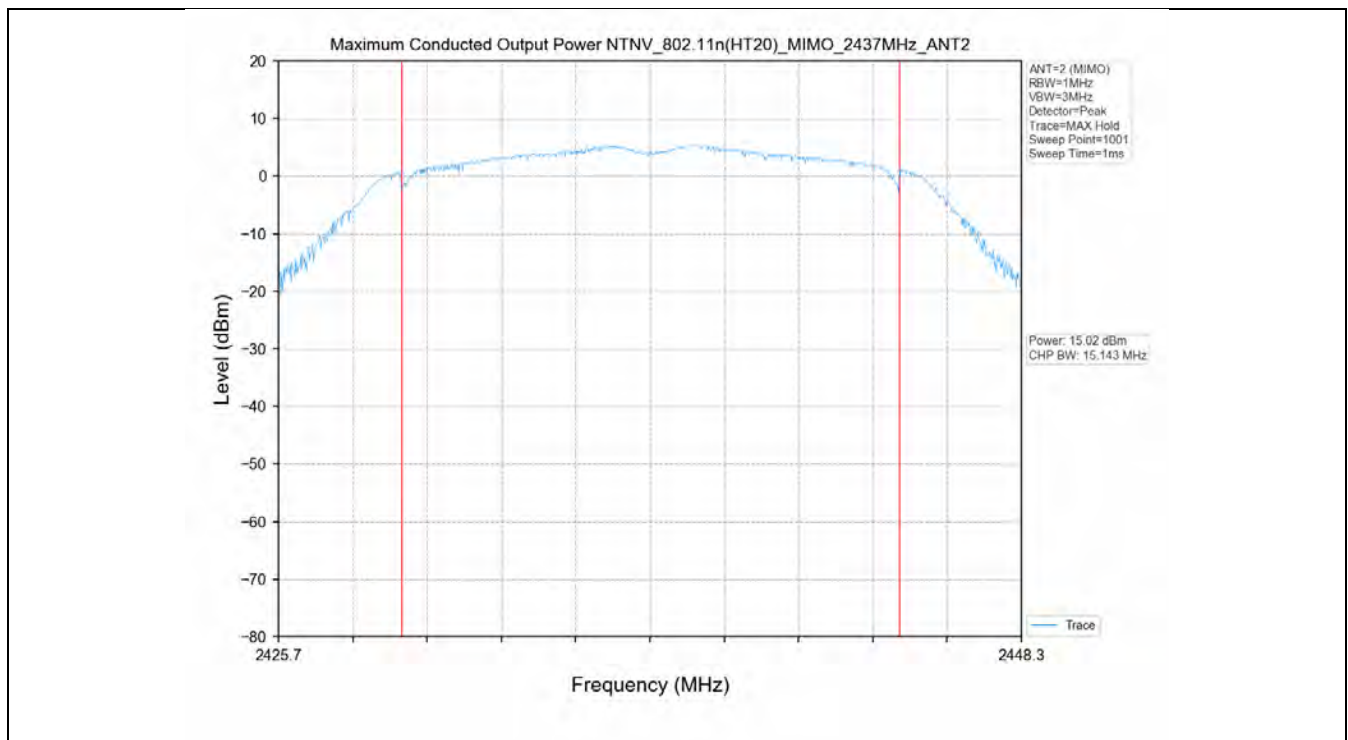
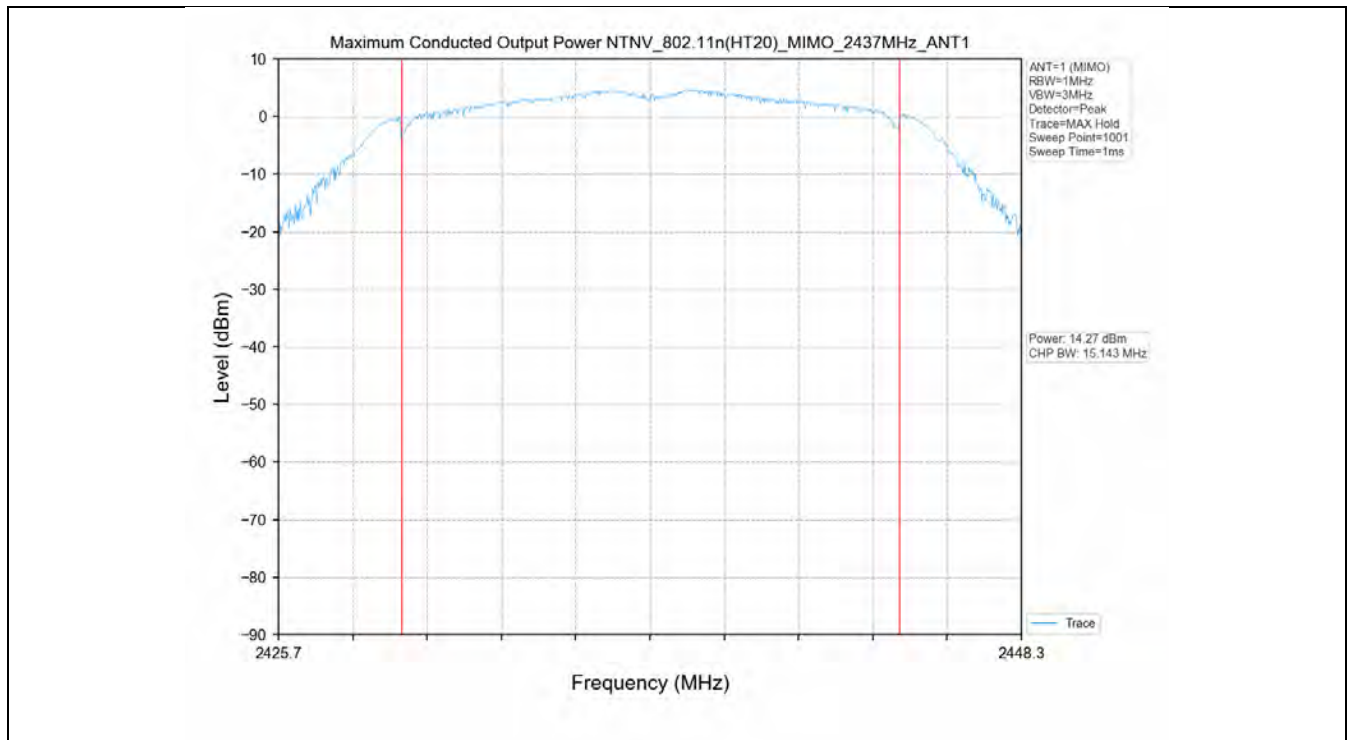


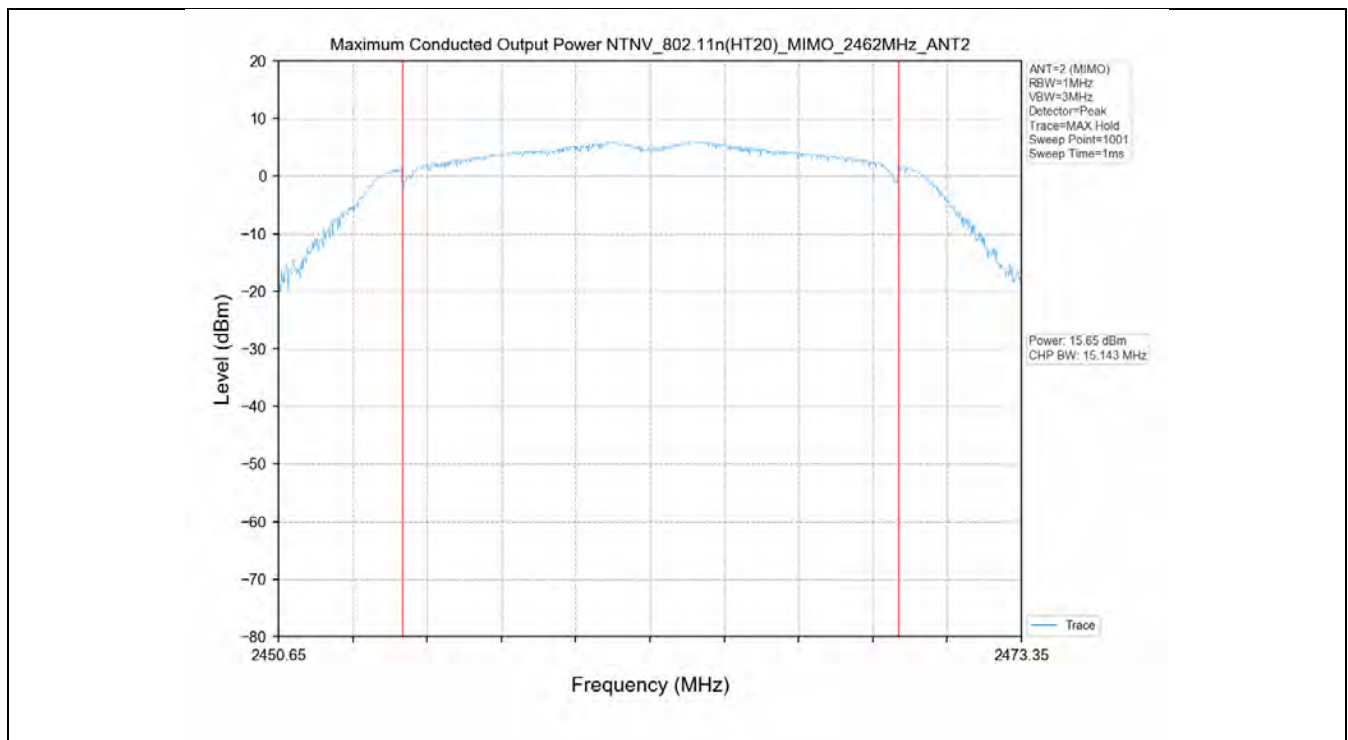
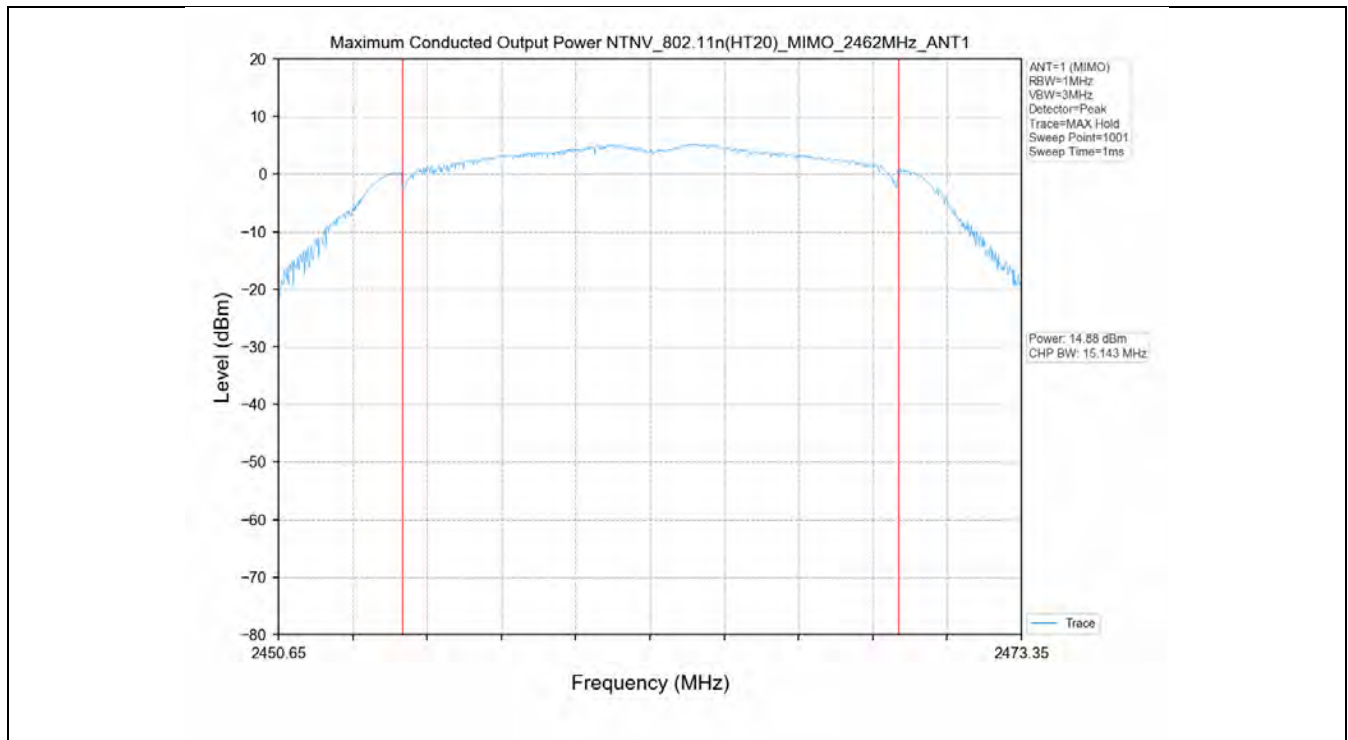


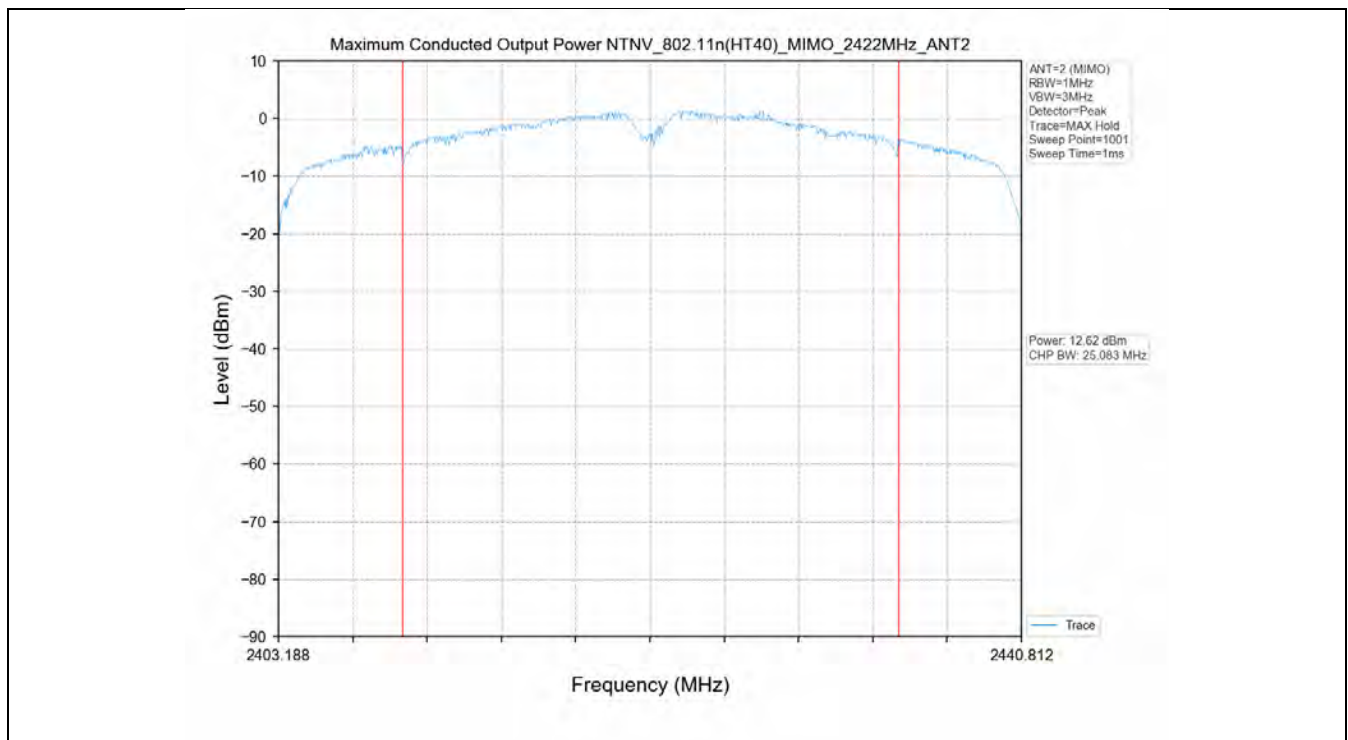
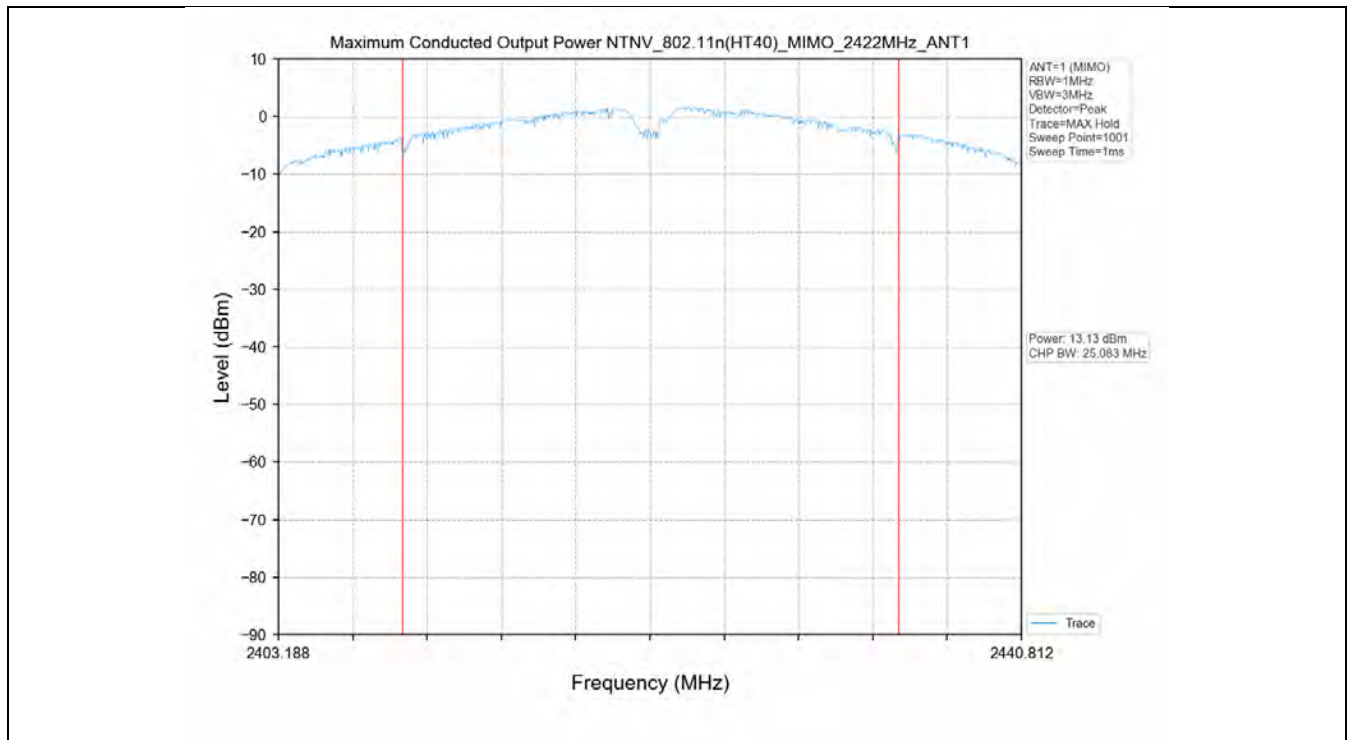


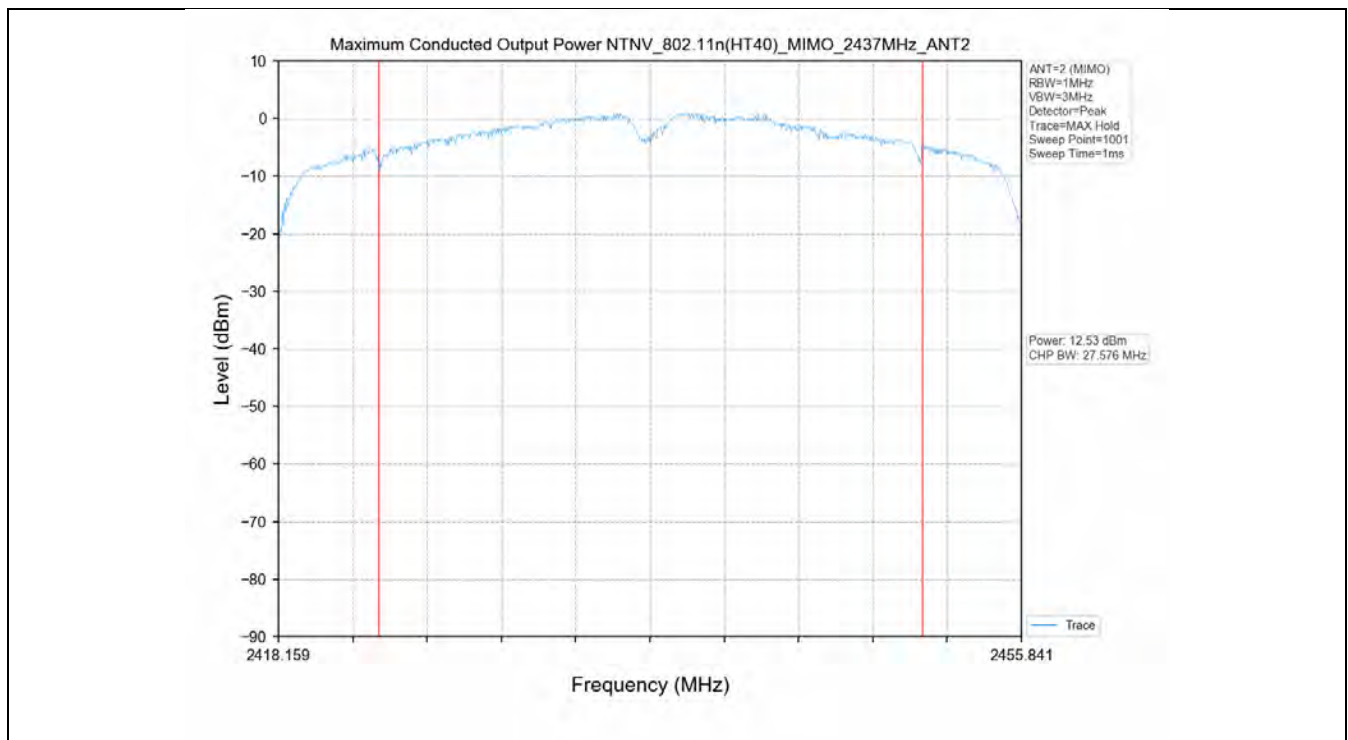
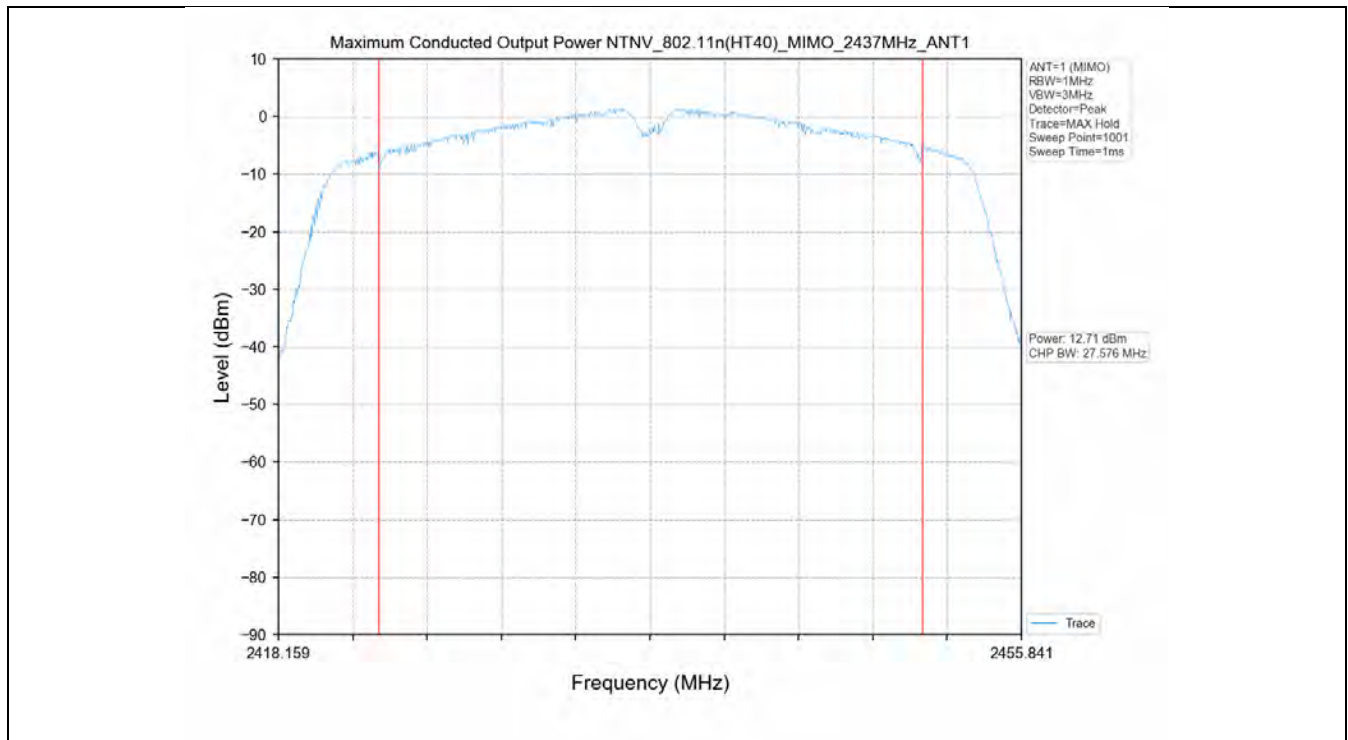


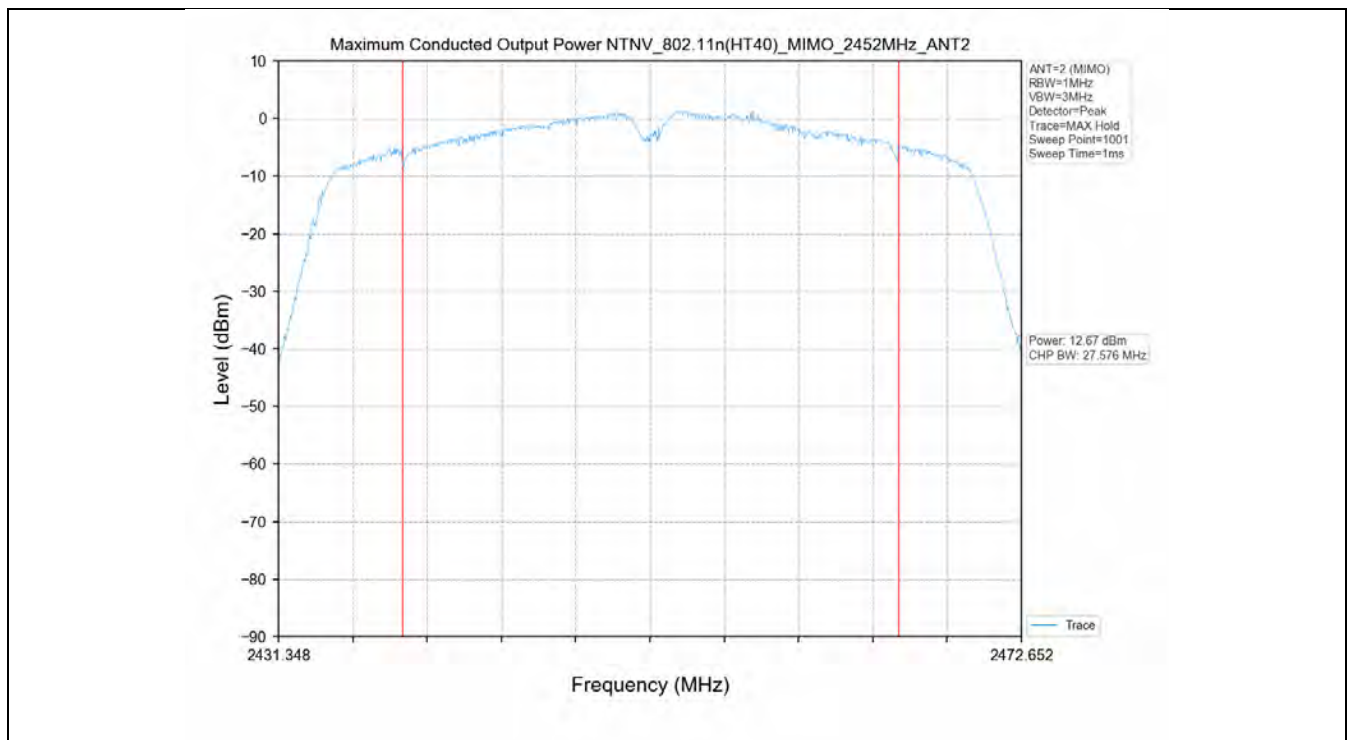
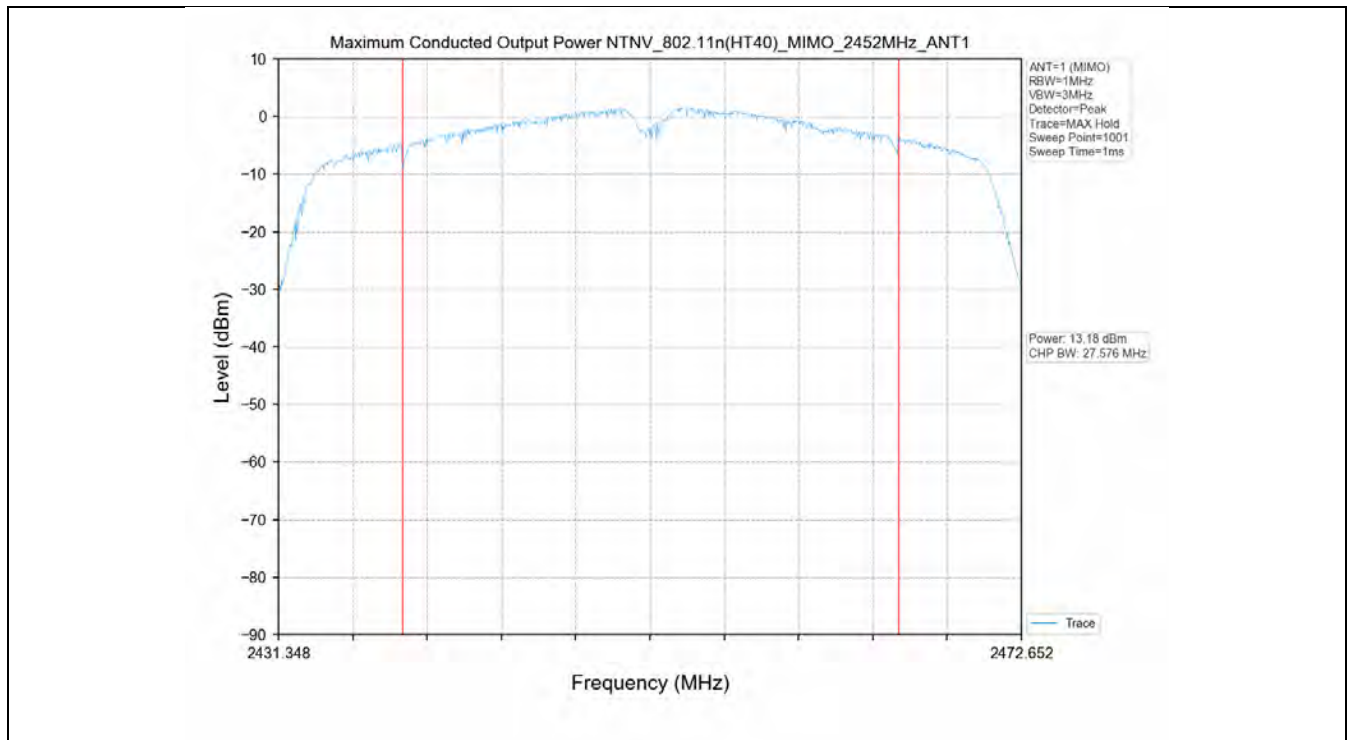












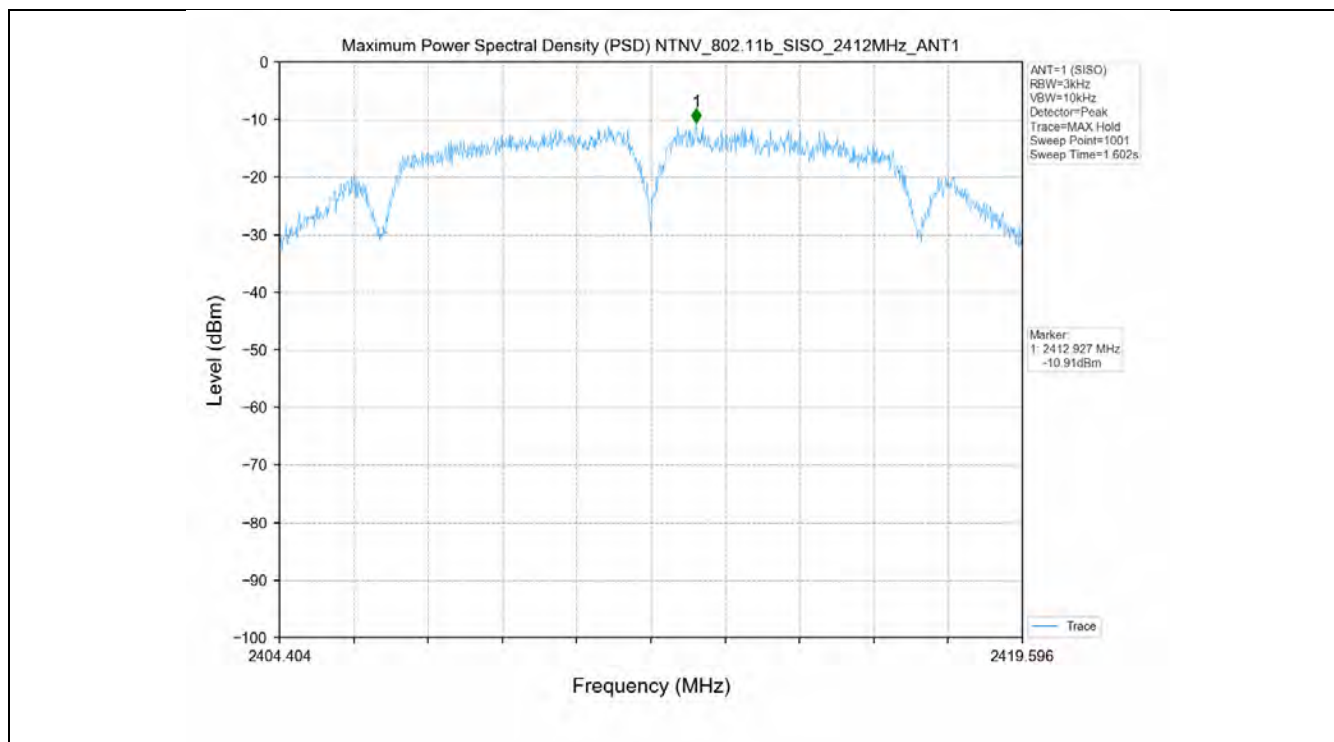


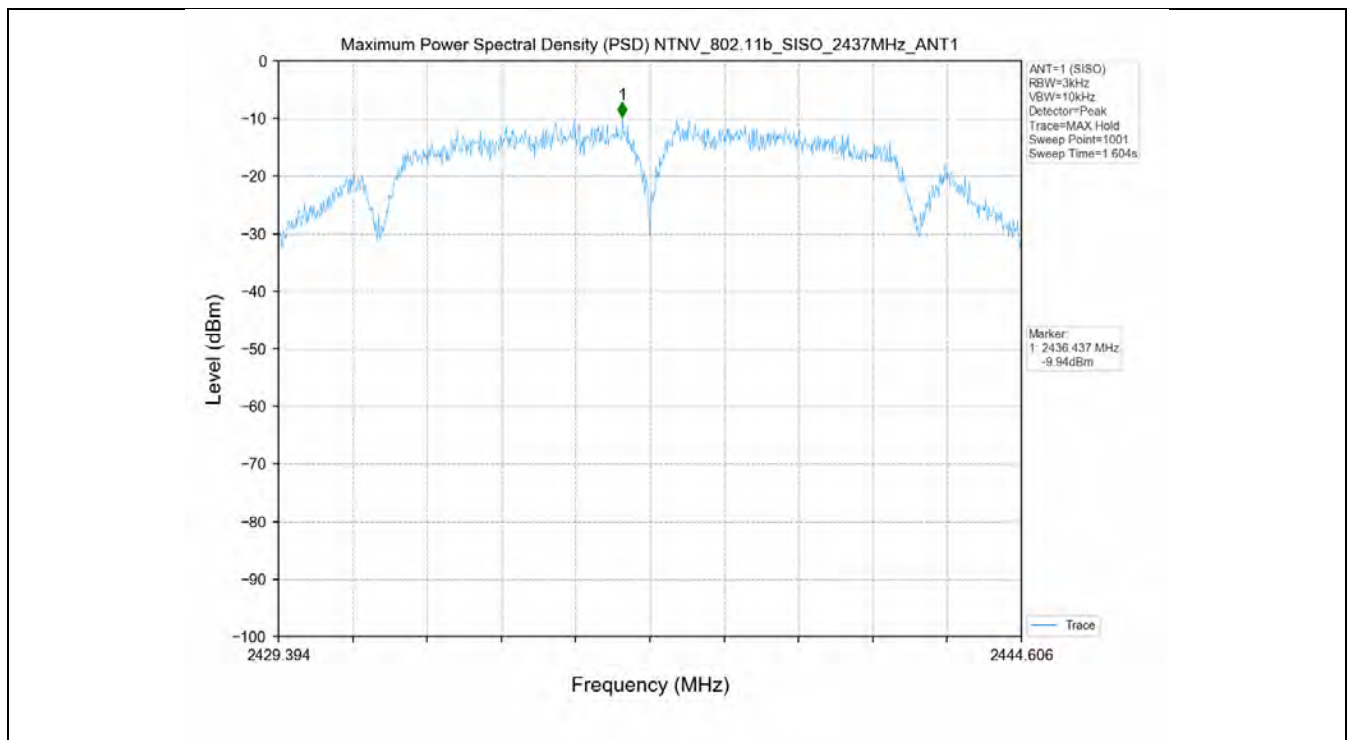
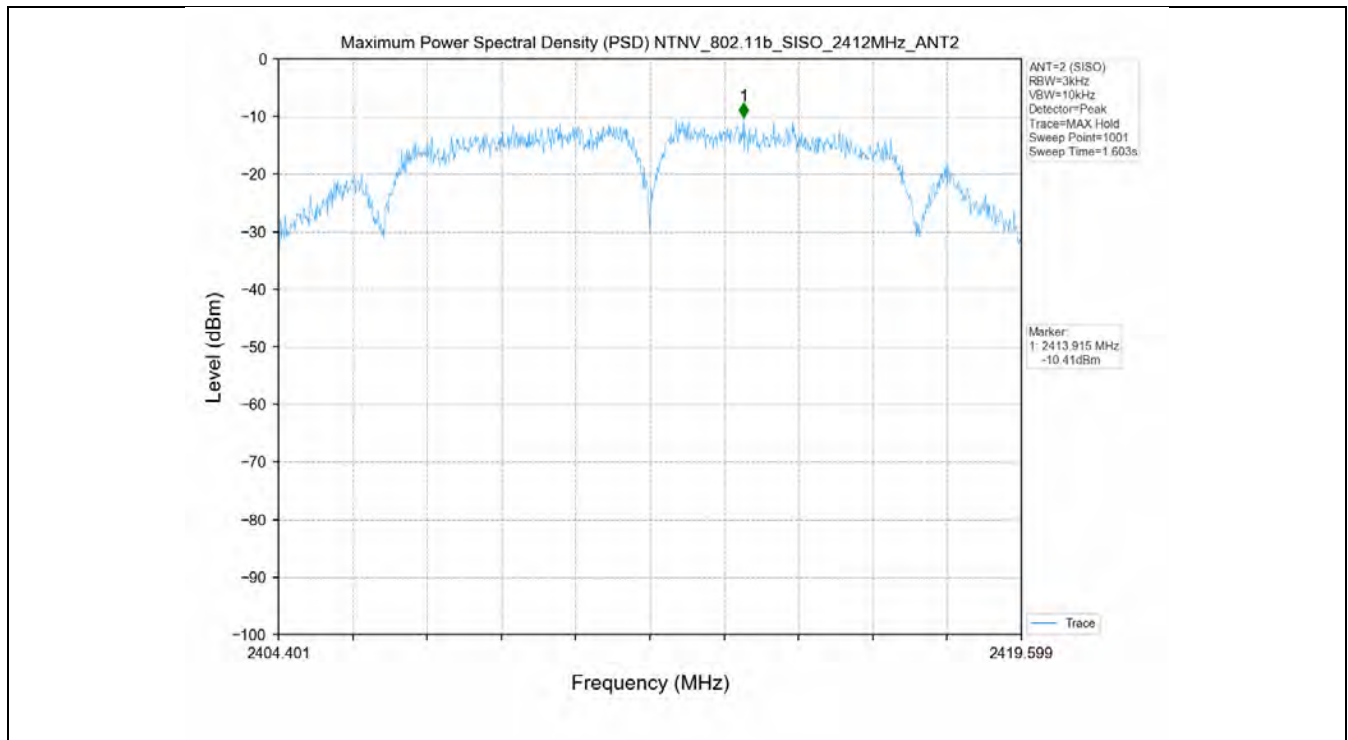
4. Maximum Power Spectral Density (PSD)

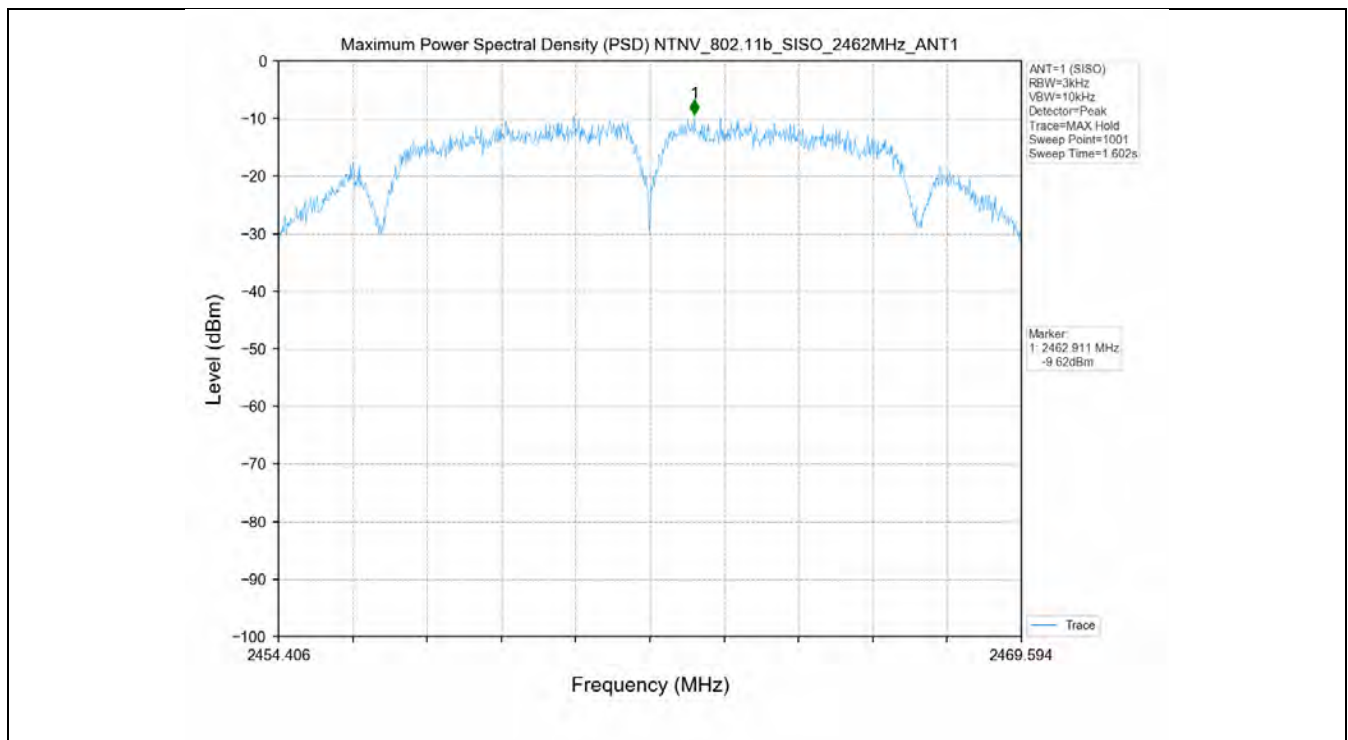
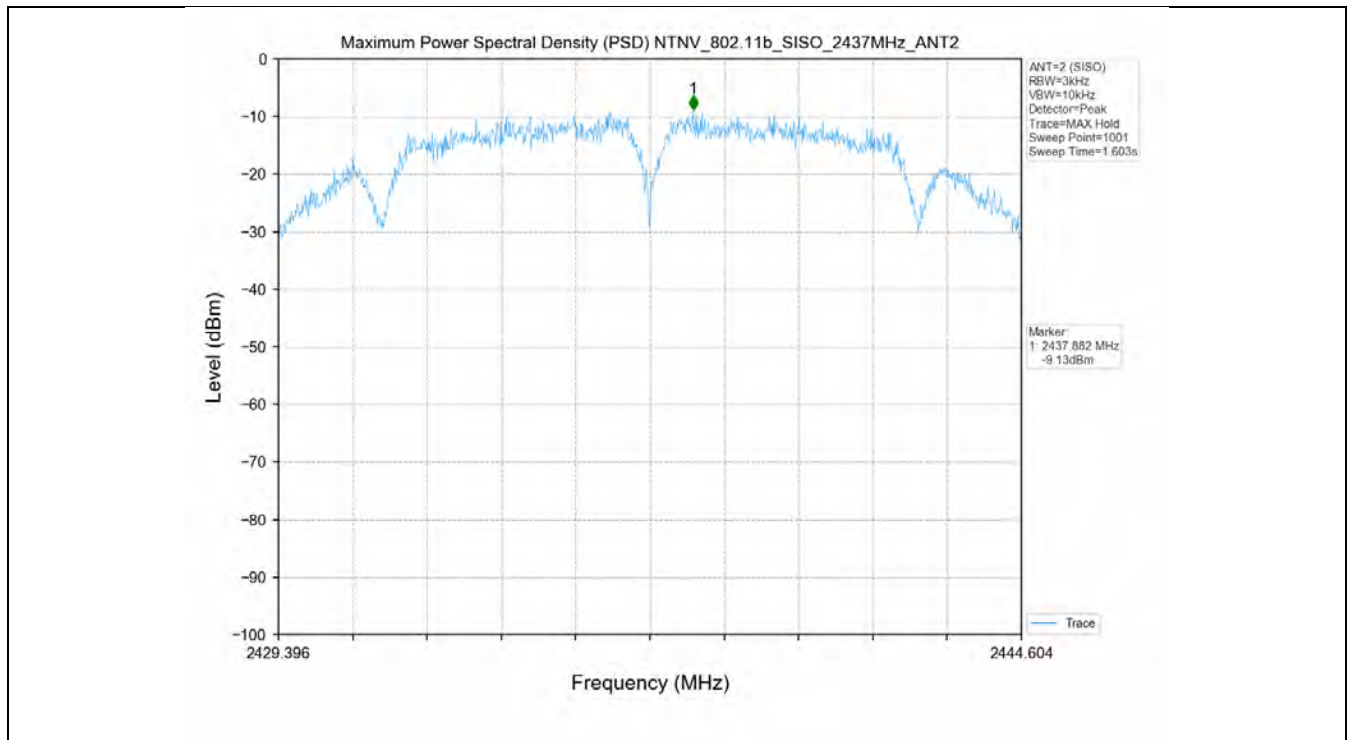
4.1 Test Result

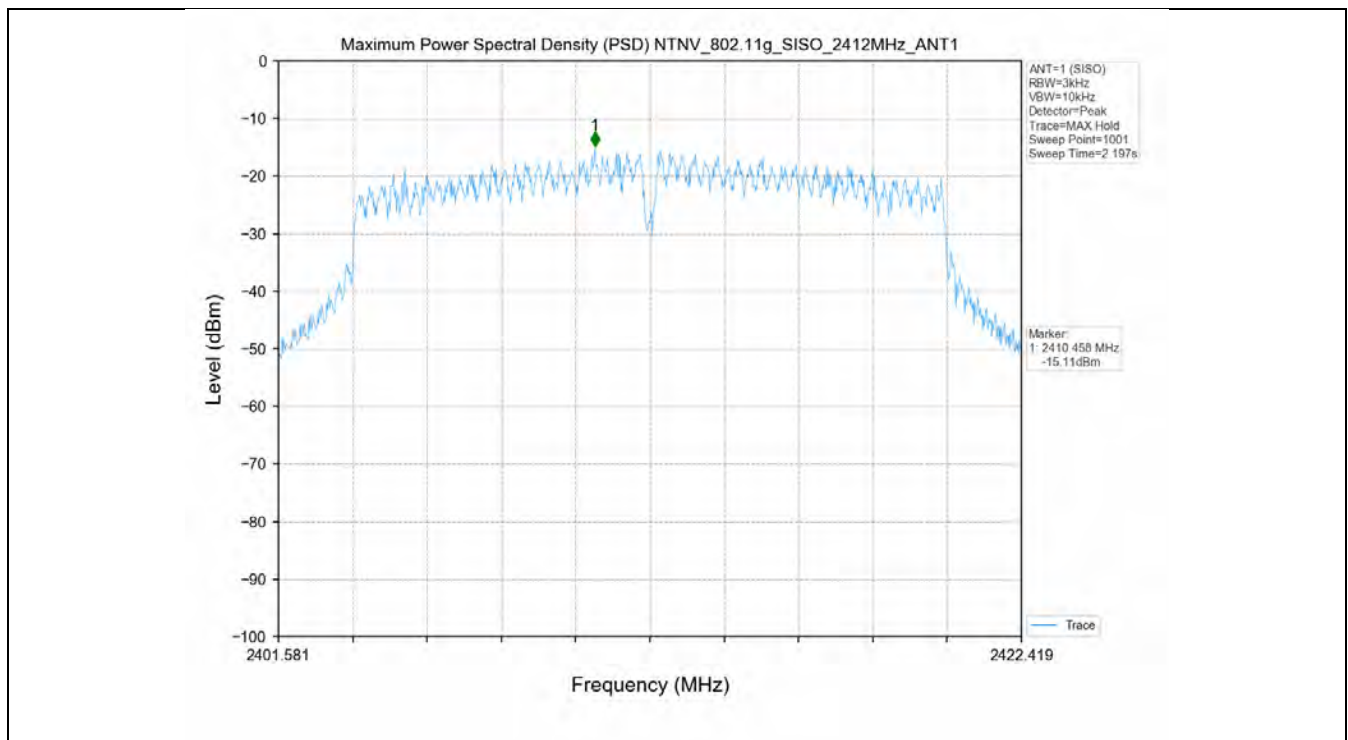
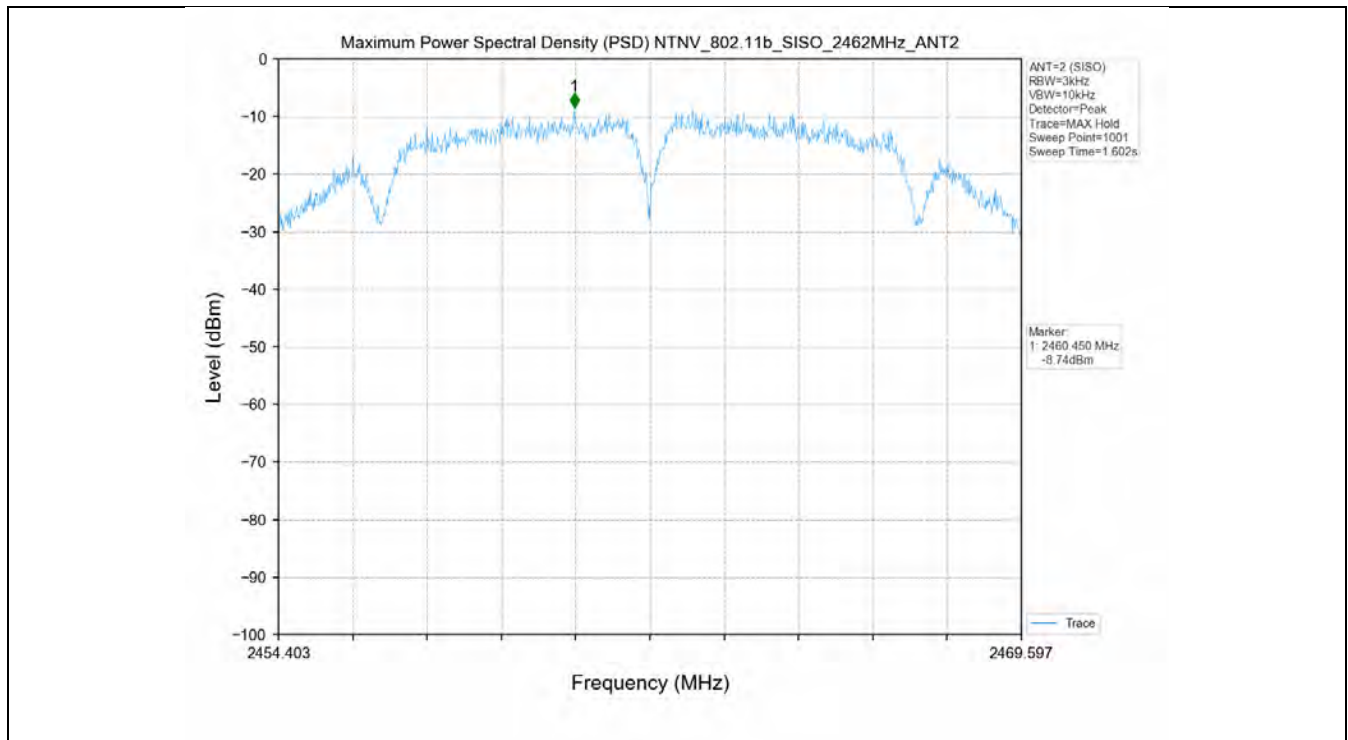
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-10.91	-10.41	/	≤8	PASS
	2437	SISO	-9.94	-9.13	/	≤8	PASS
	2462	SISO	-9.62	-8.74	/	≤8	PASS
802.11g	2412	SISO	-15.11	-14.65	/	≤8	PASS
	2437	SISO	-14.54	-14.76	/	≤8	PASS
	2462	SISO	-15.77	-14.68	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-17.93	-17.23	-14.74	≤8	PASS
	2437	MIMO	-16.26	-15.97	-13.10	≤8	PASS
	2462	MIMO	-15.75	-15.01	-12.43	≤8	PASS
802.11n(HT40)	2422	MIMO	-20.57	-21.09	-19.14	≤8	PASS
	2437	MIMO	-20.87	-21.28	-19.33	≤8	PASS
	2452	MIMO	-20.78	-21.00	-18.48	≤8	PASS

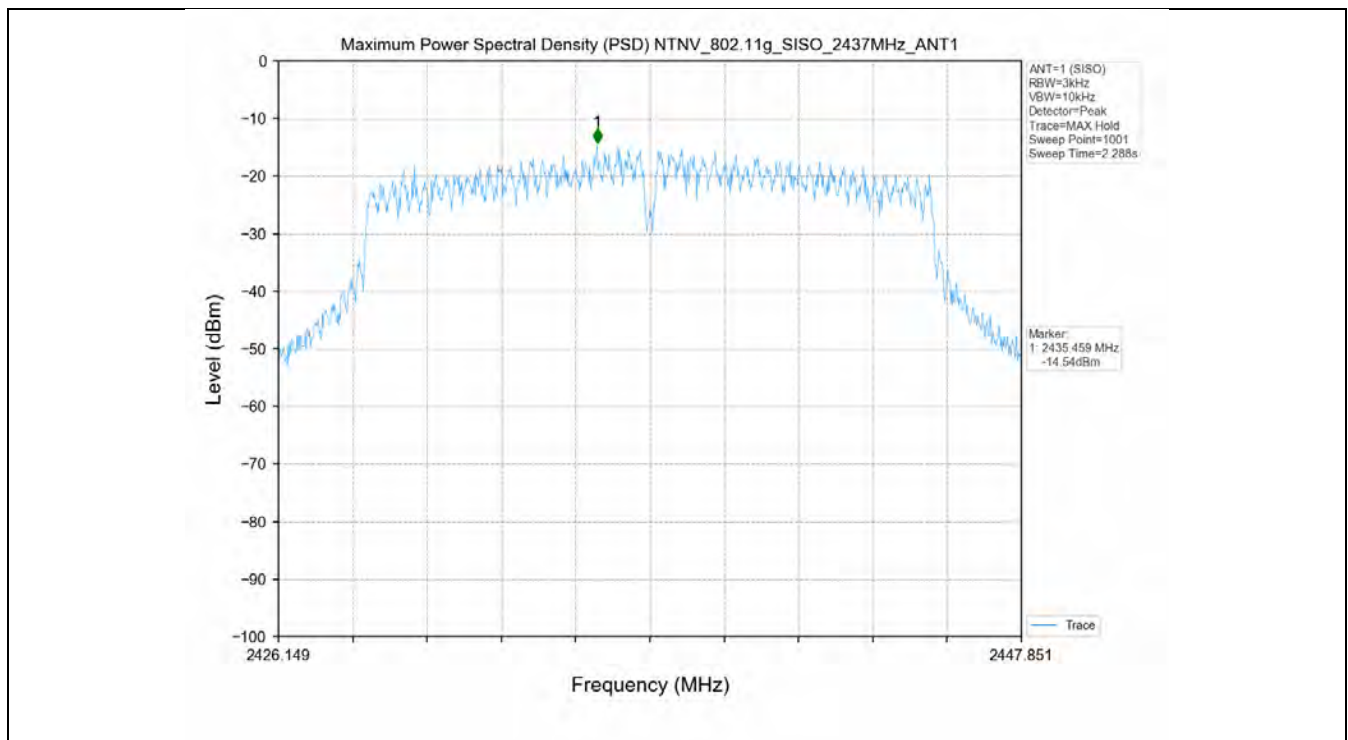
4.2 Test Graph

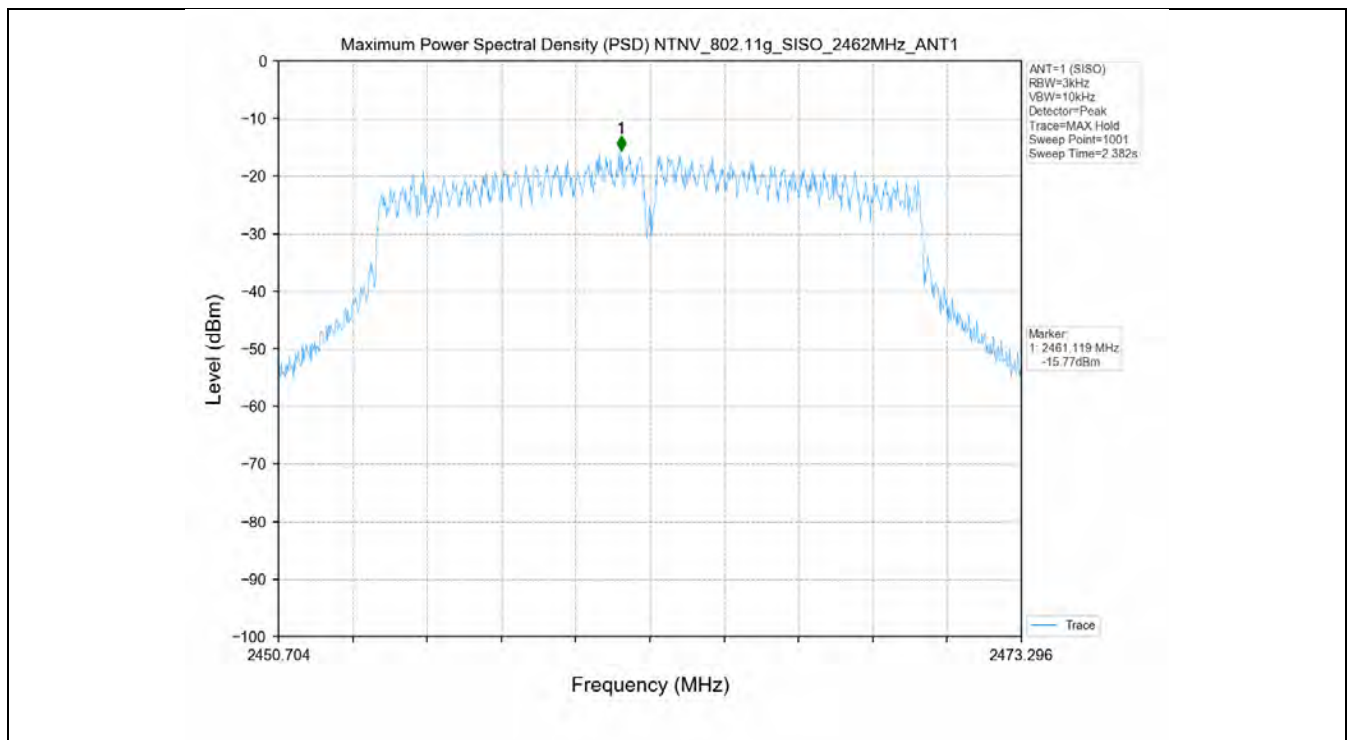
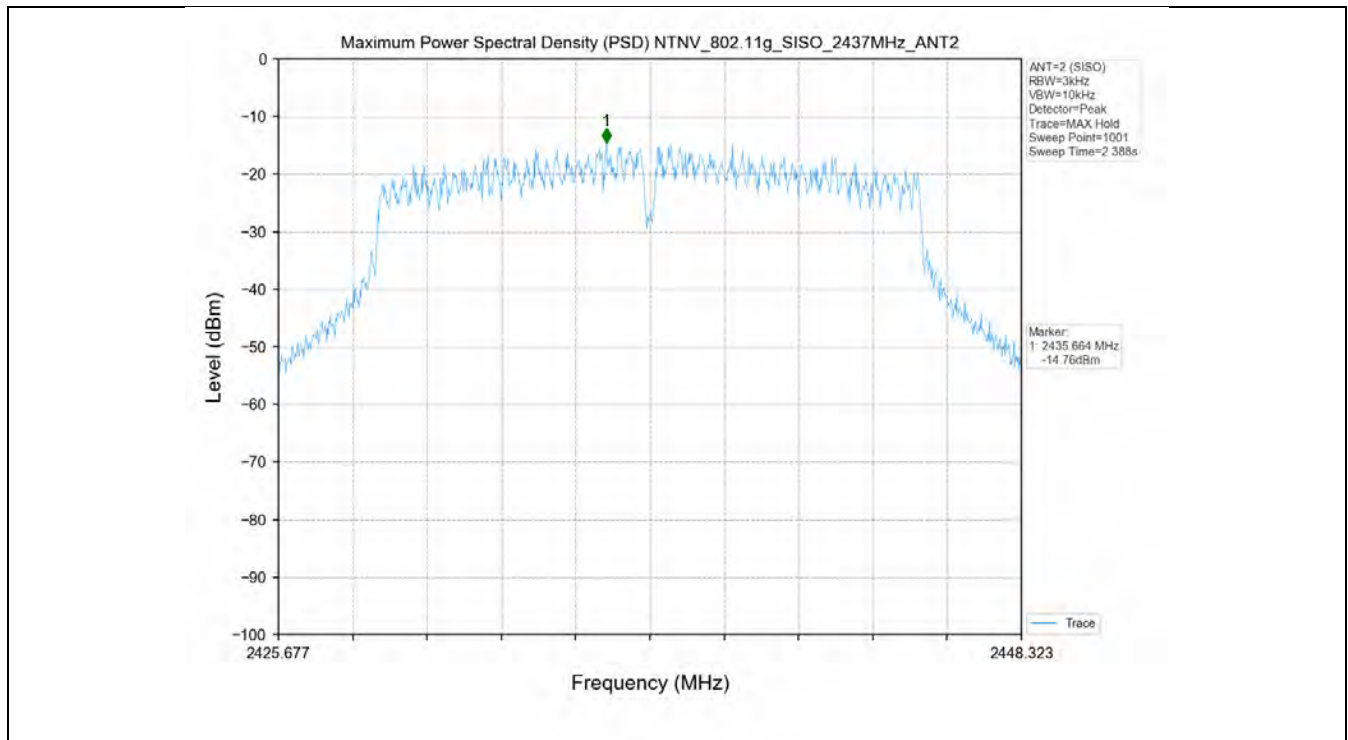


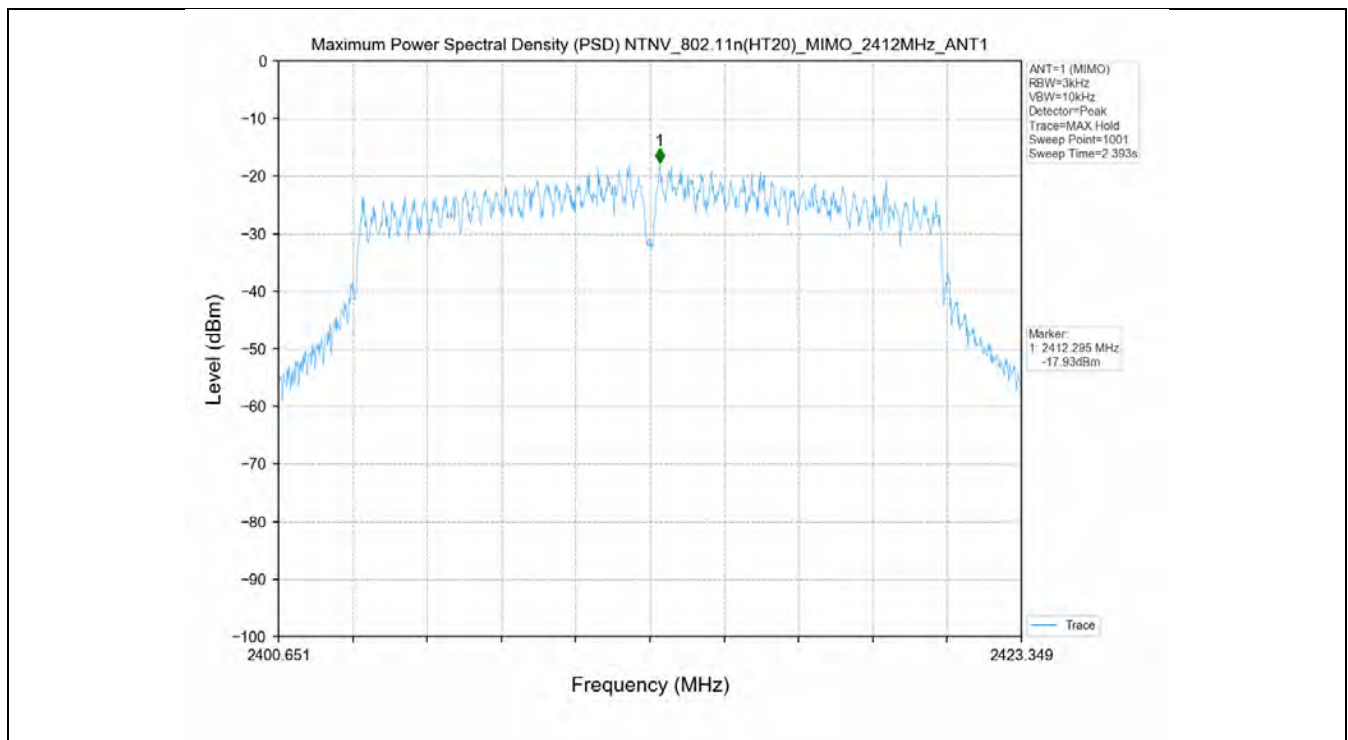
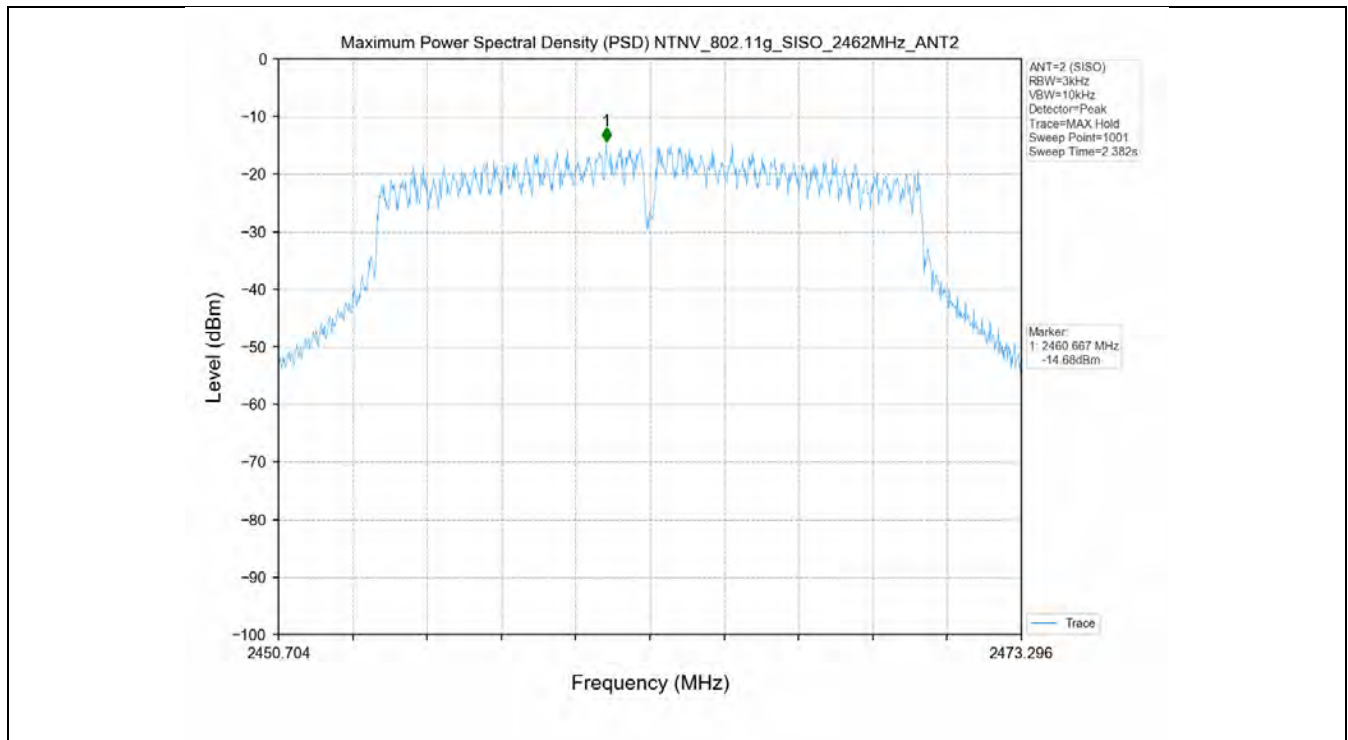


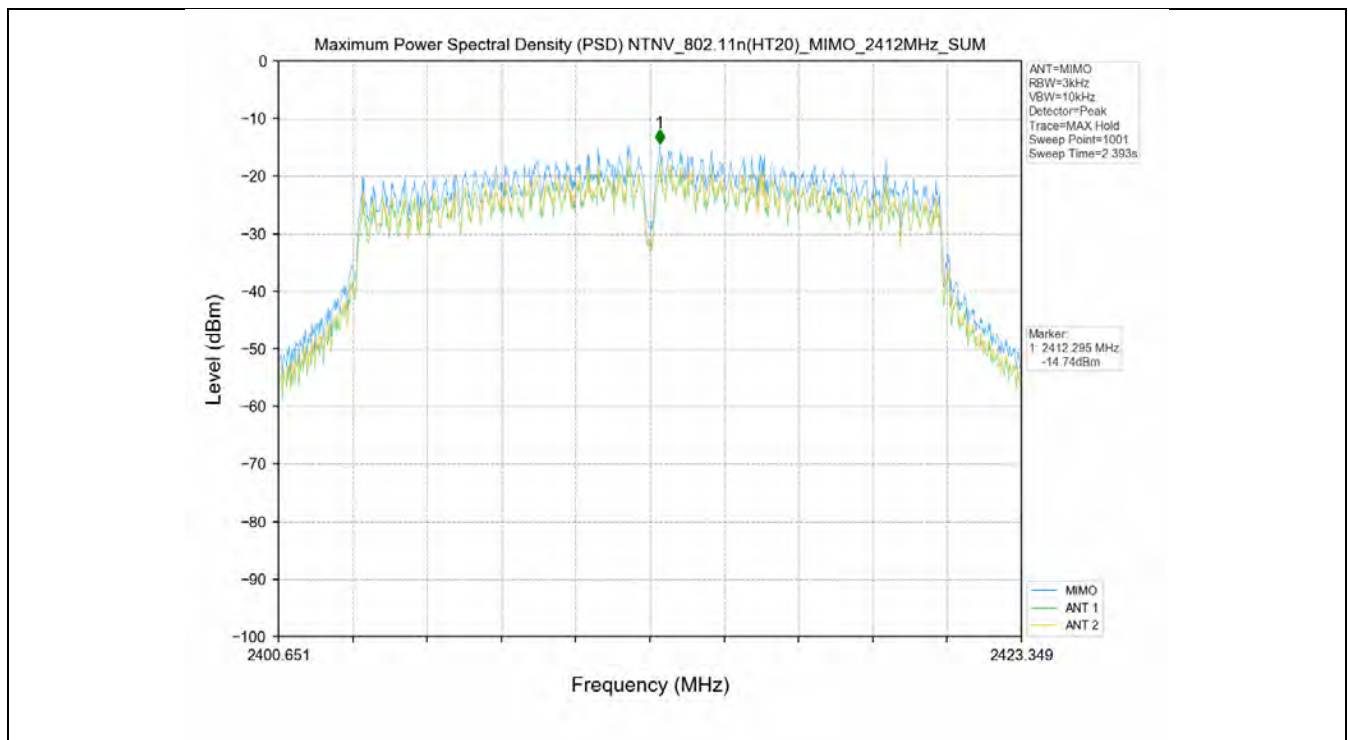
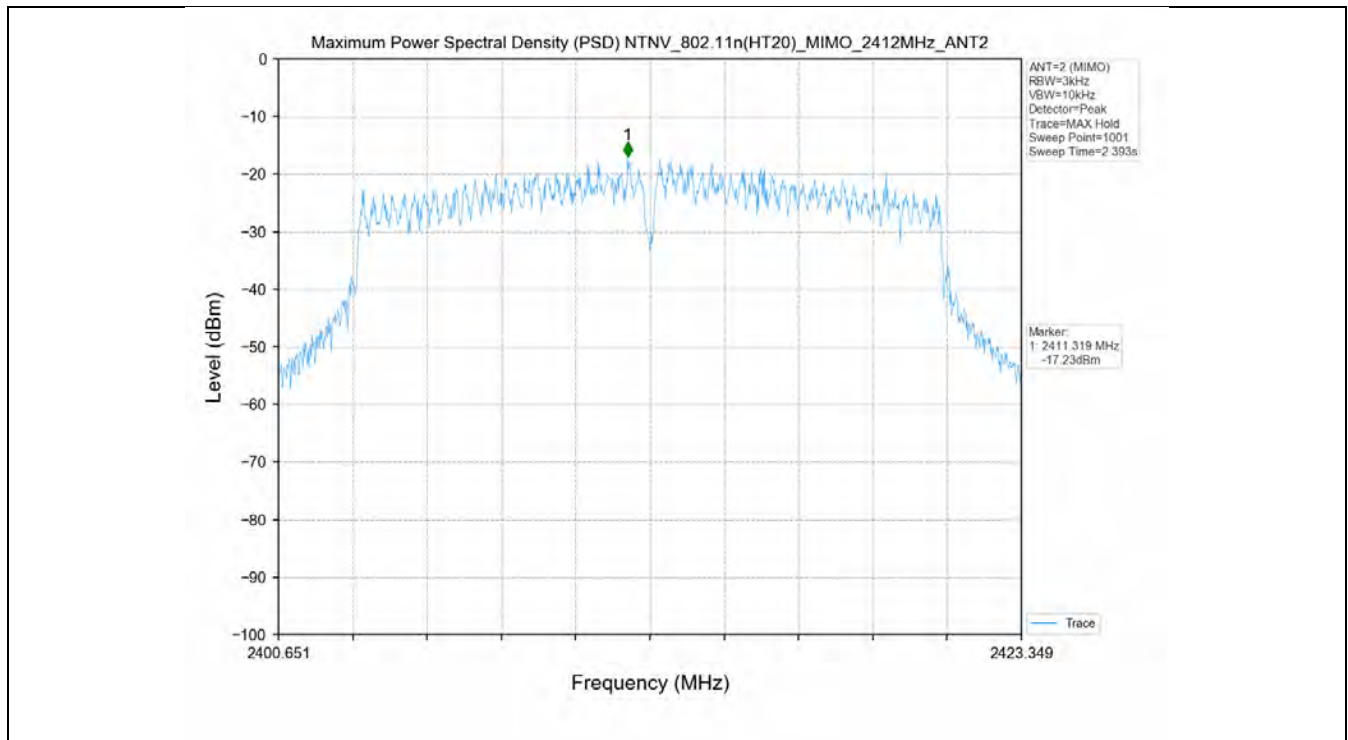


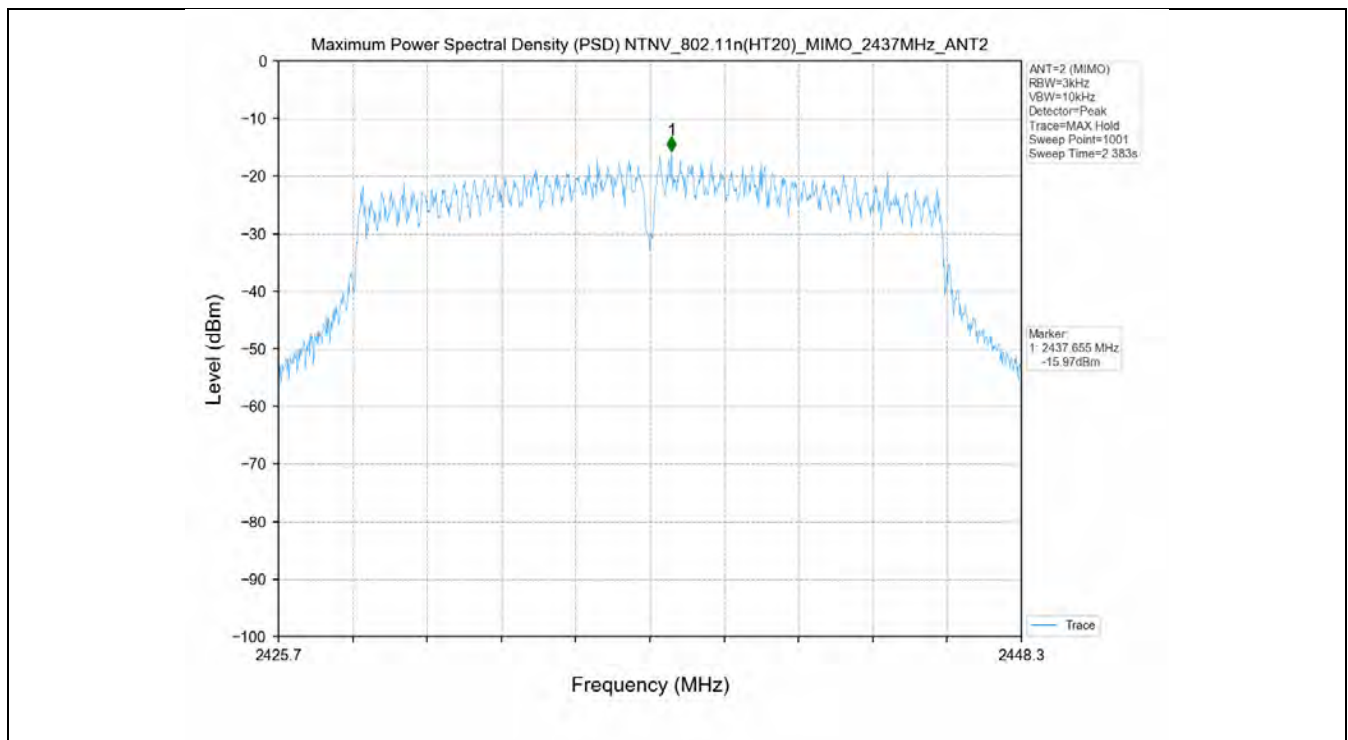
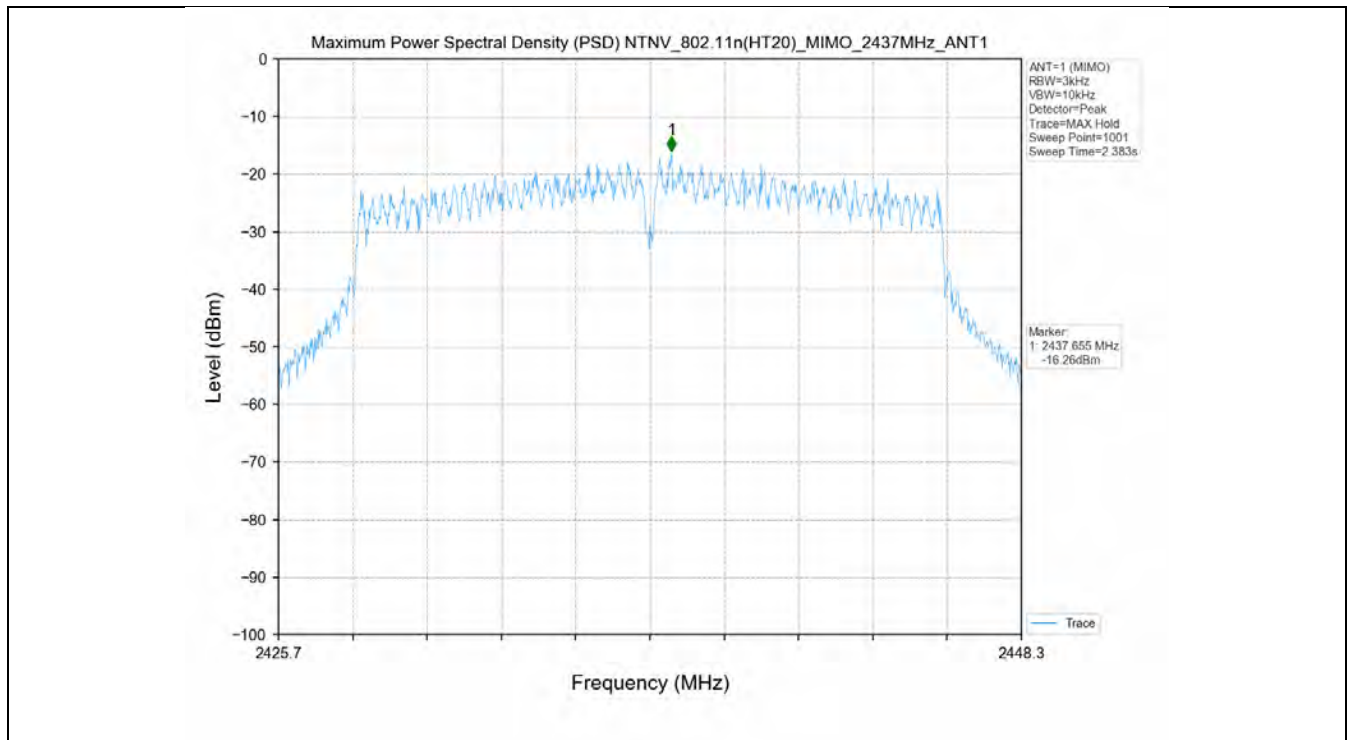


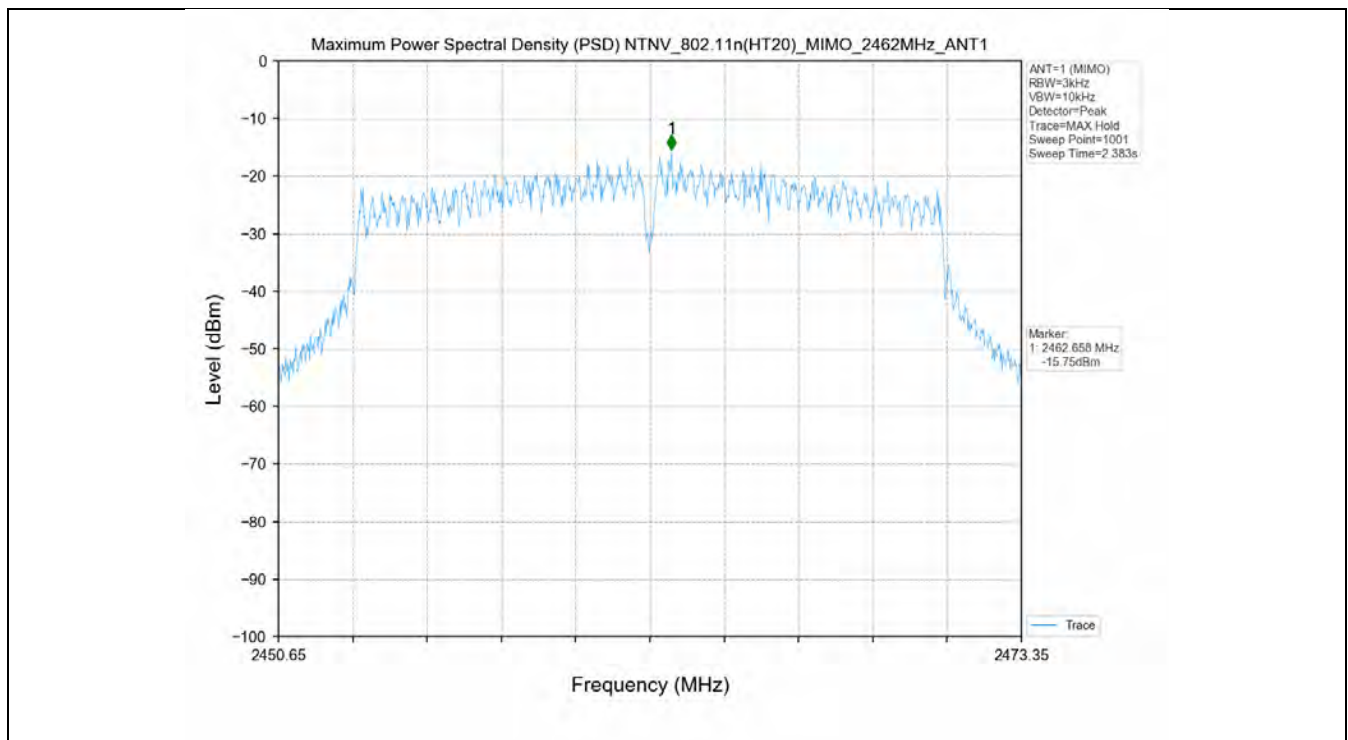
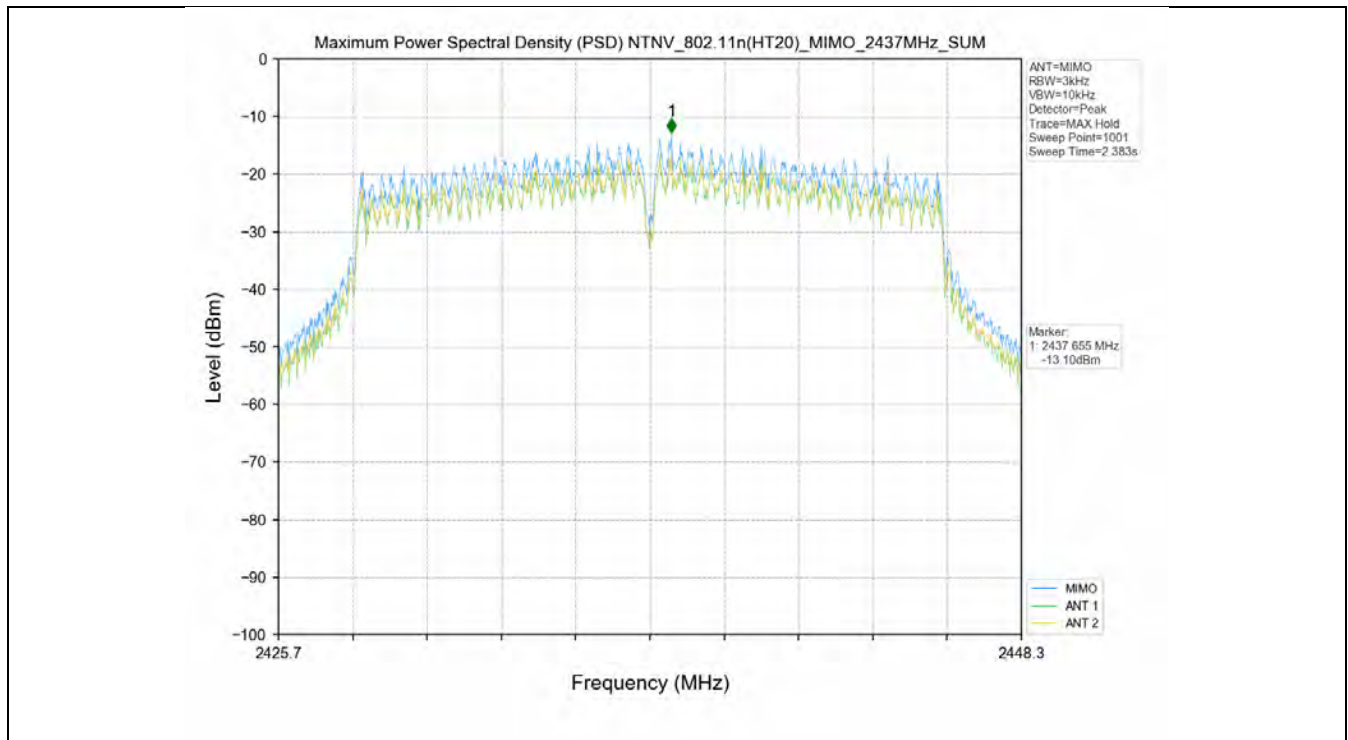


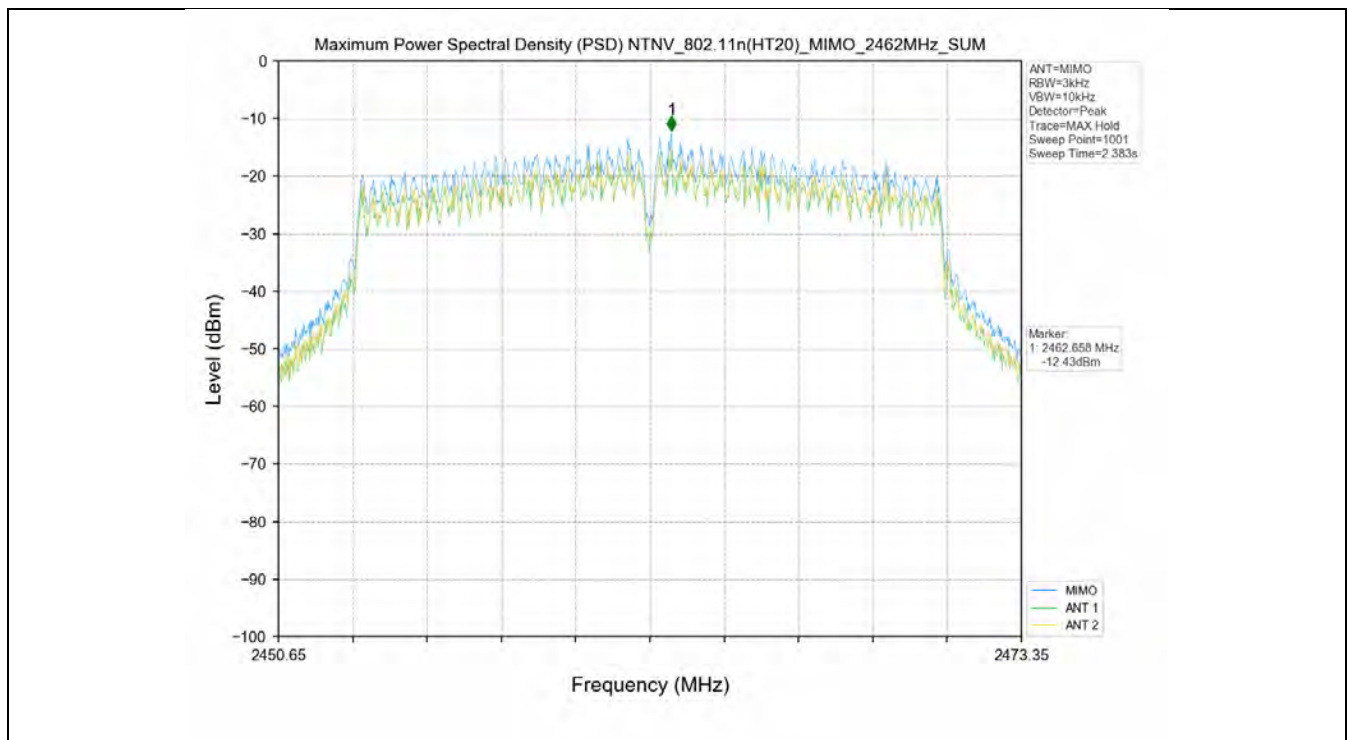
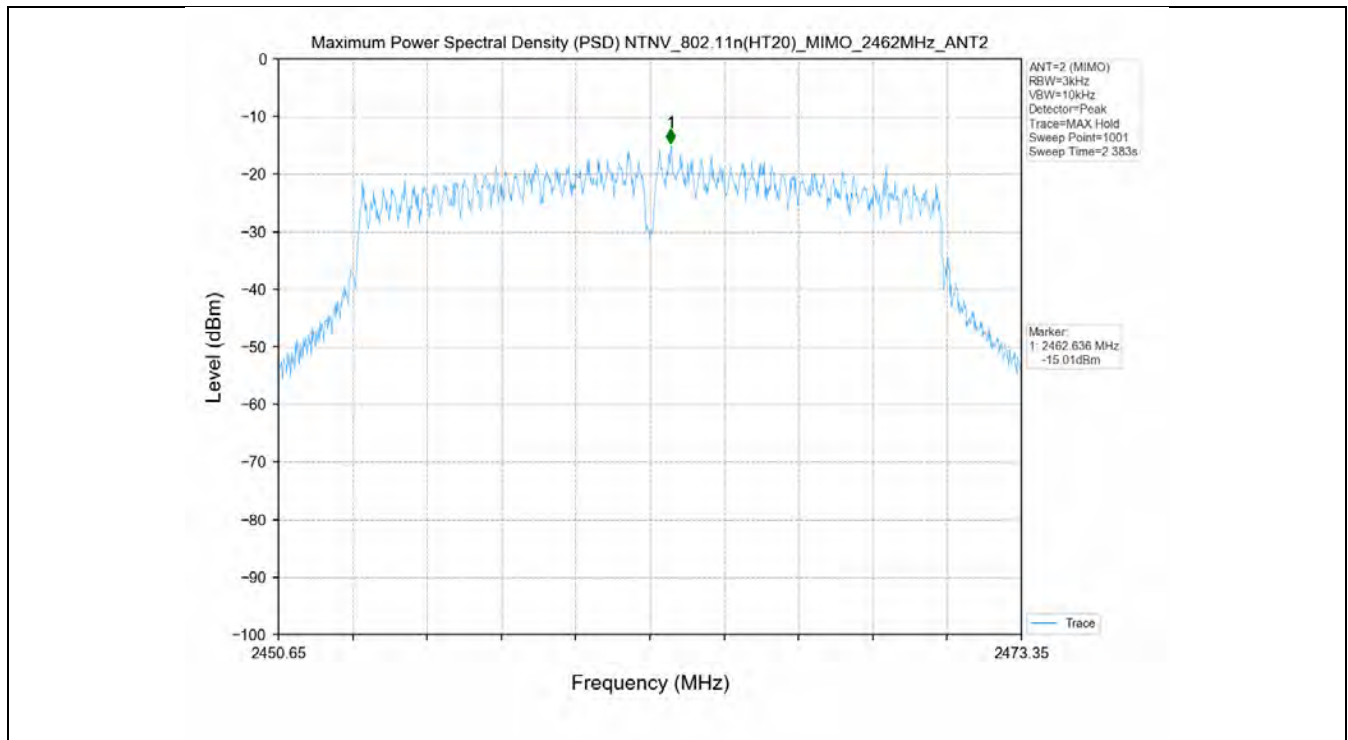


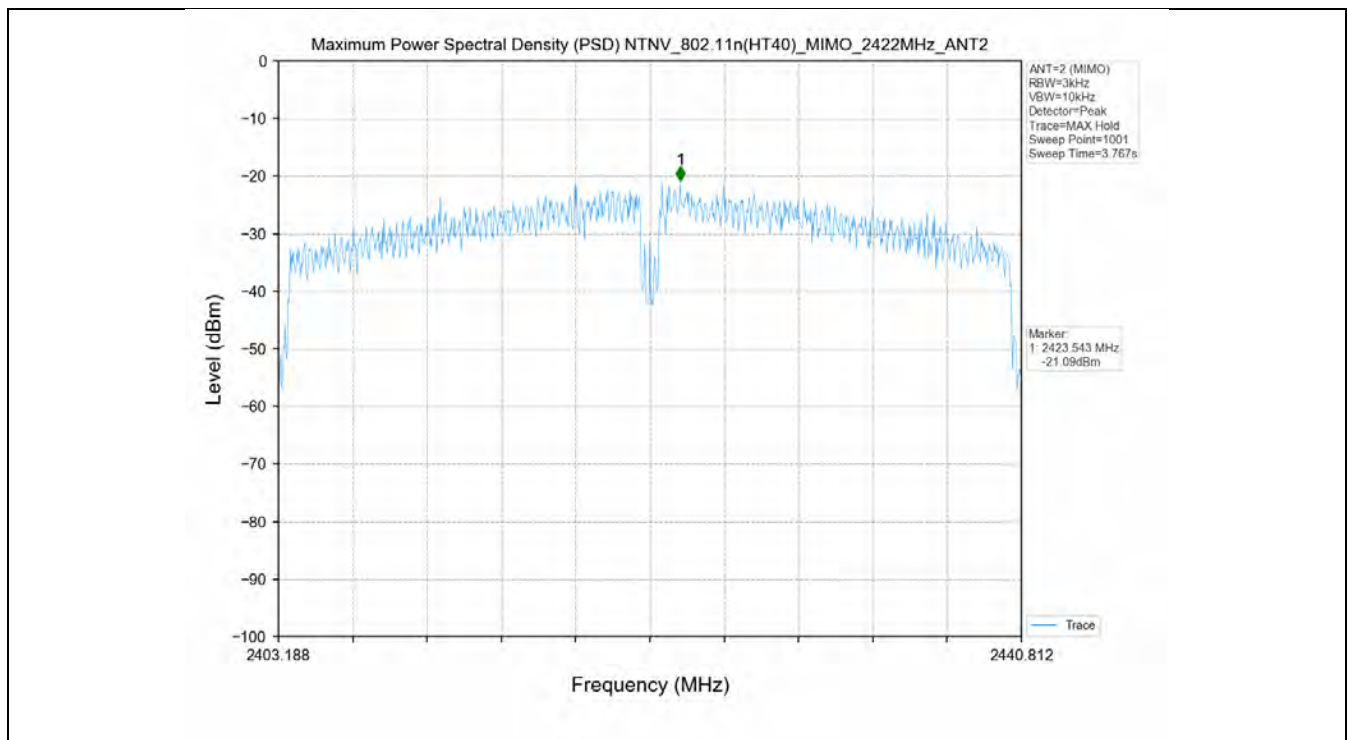
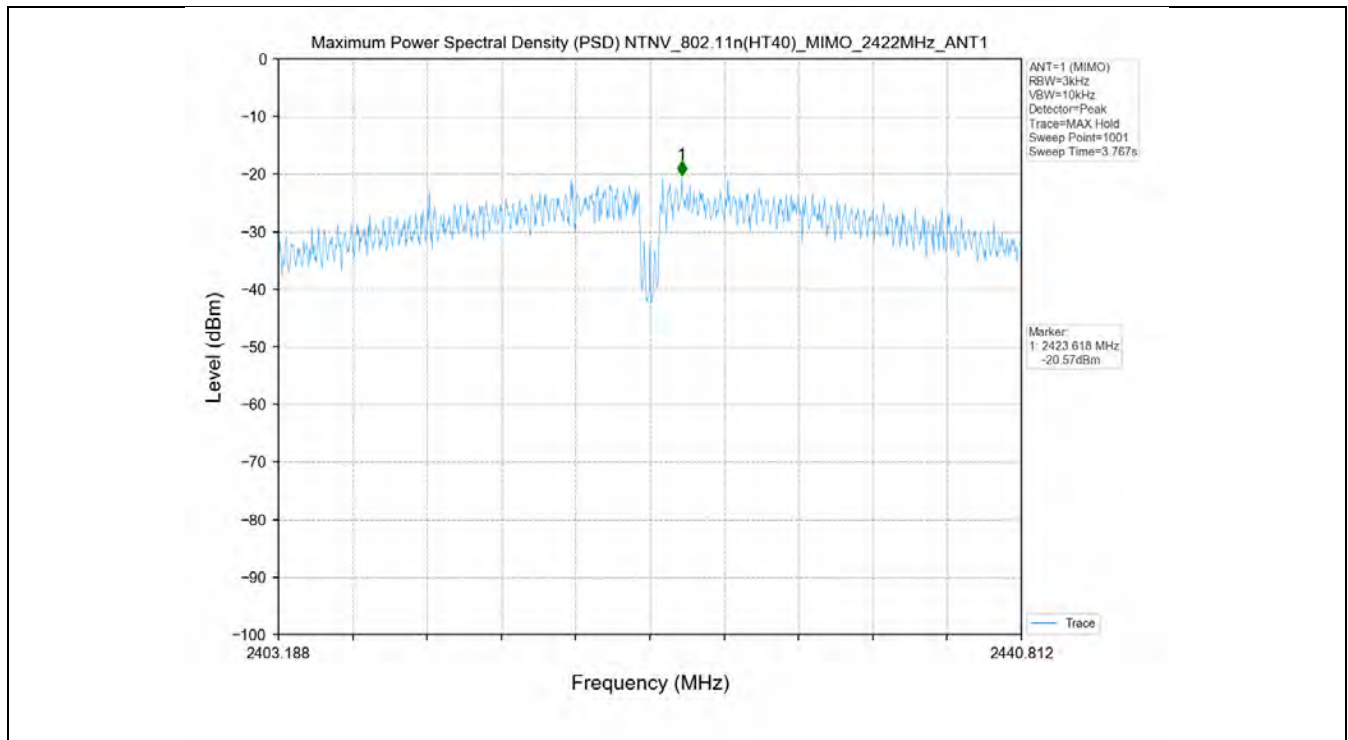


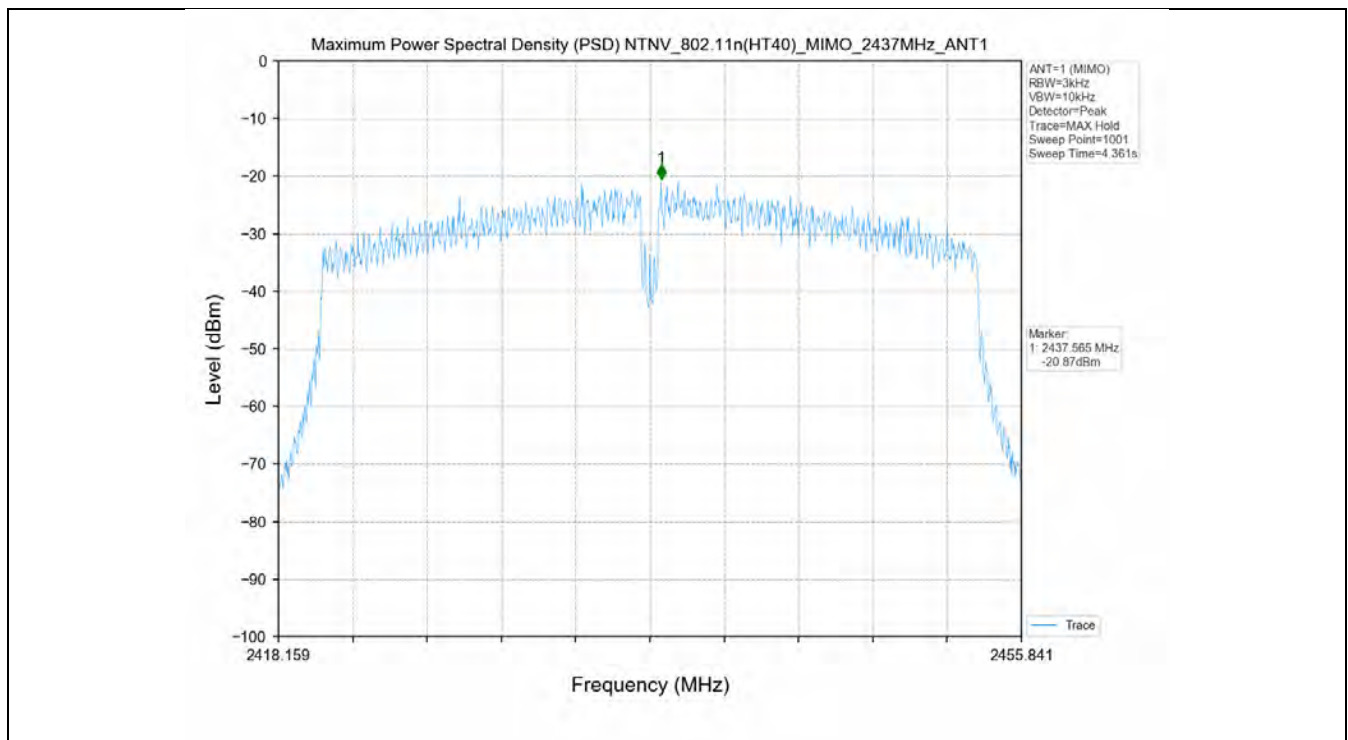
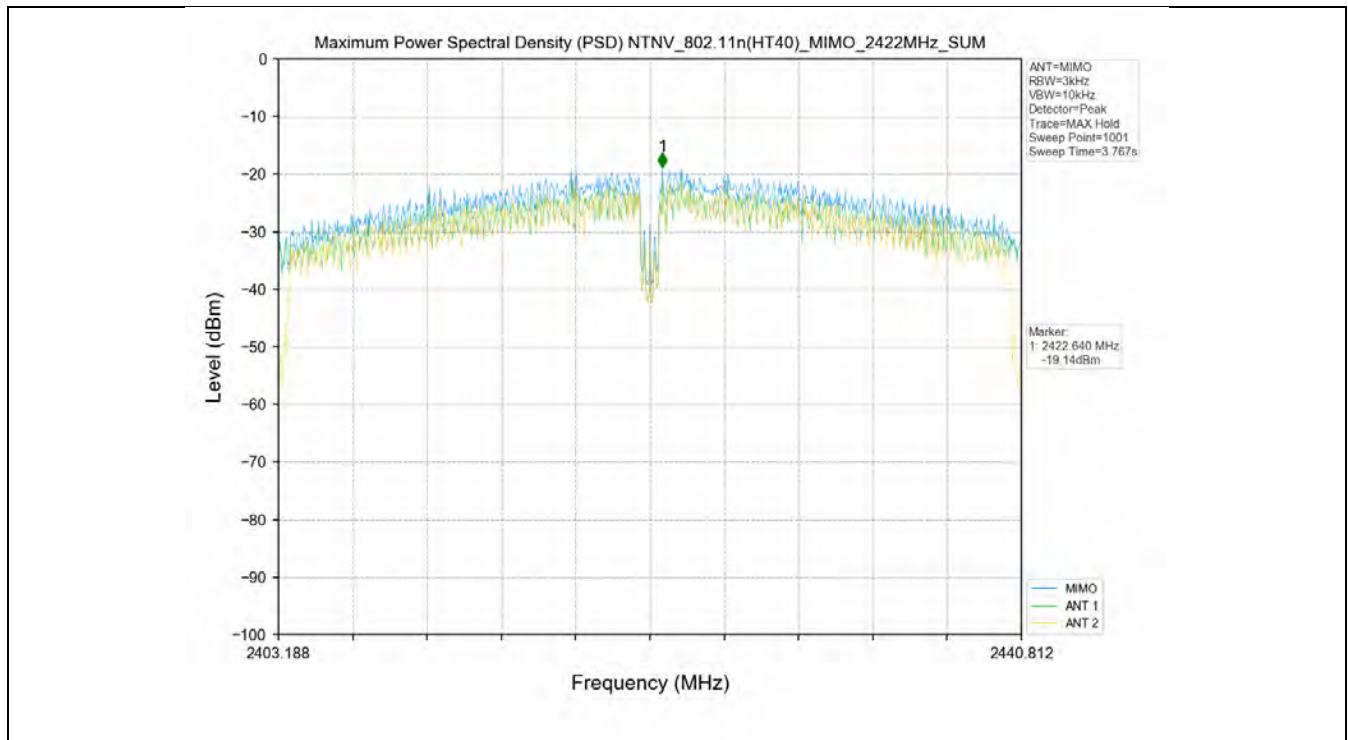


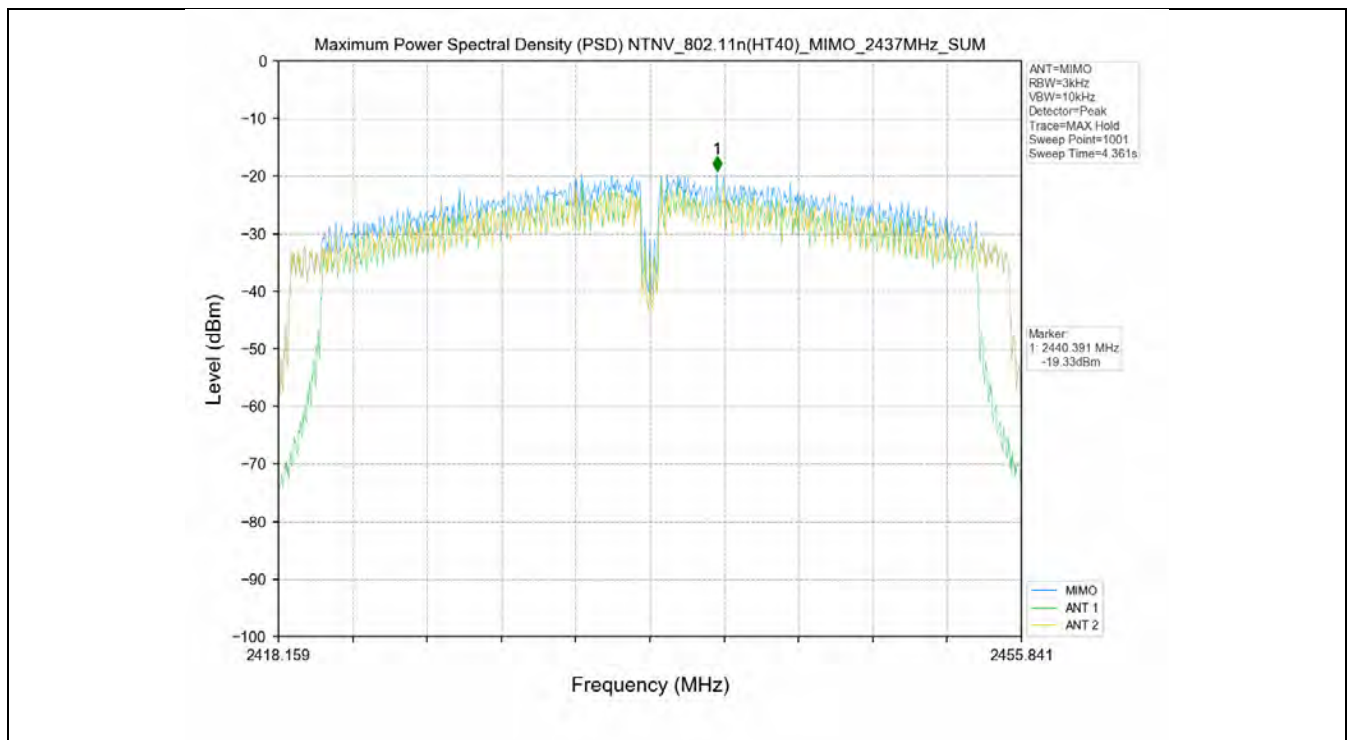
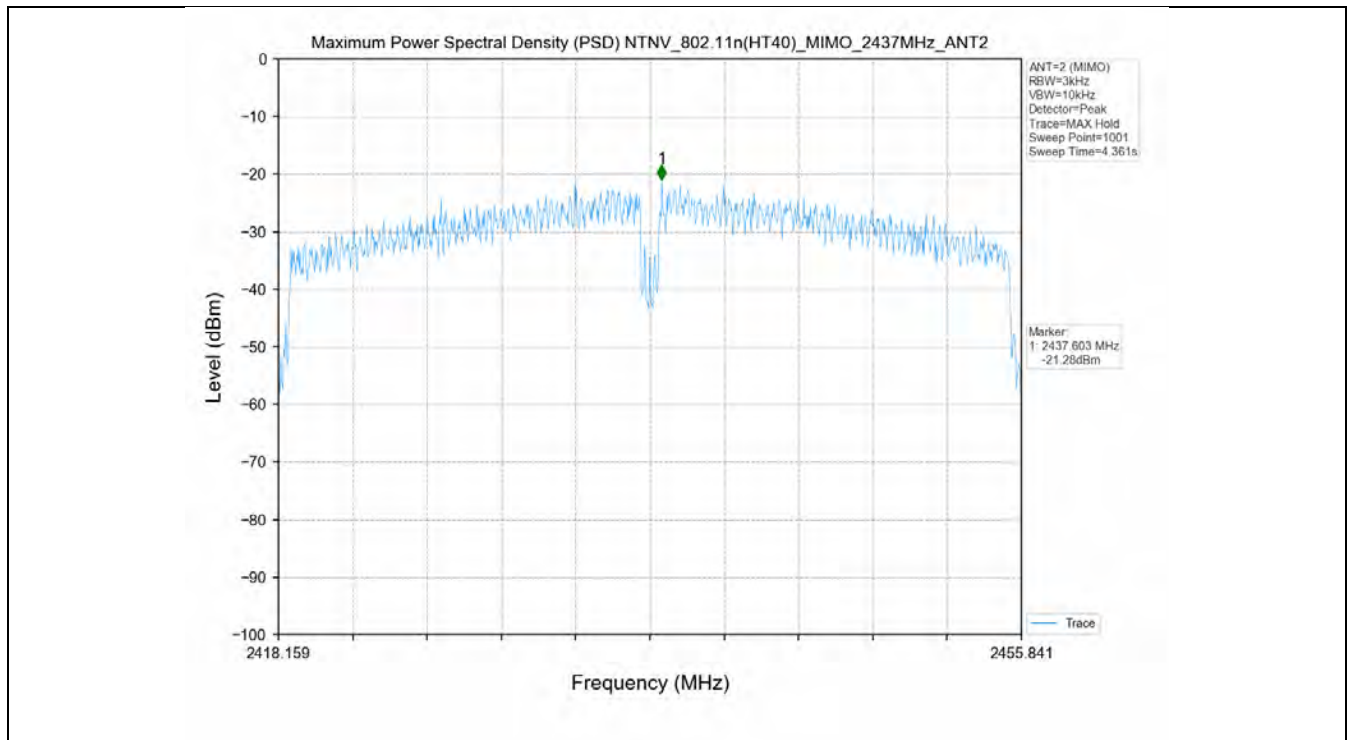


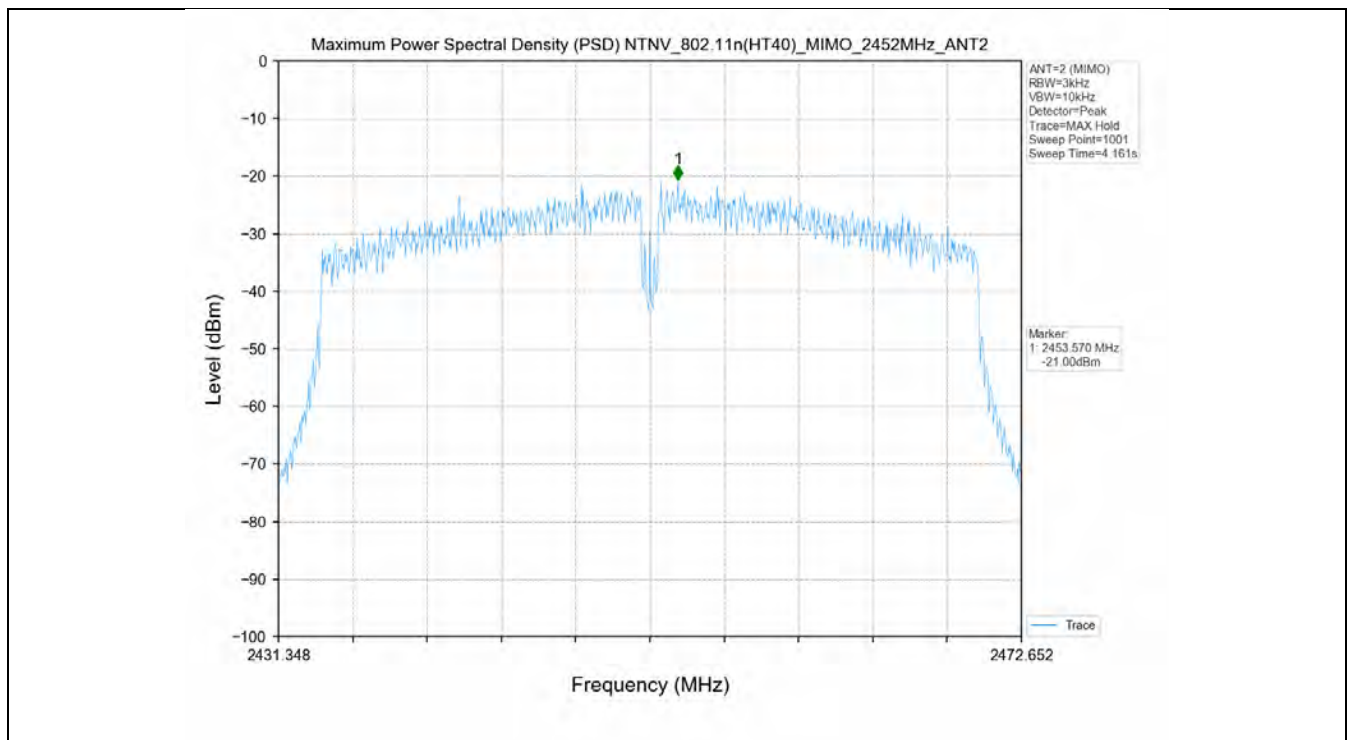
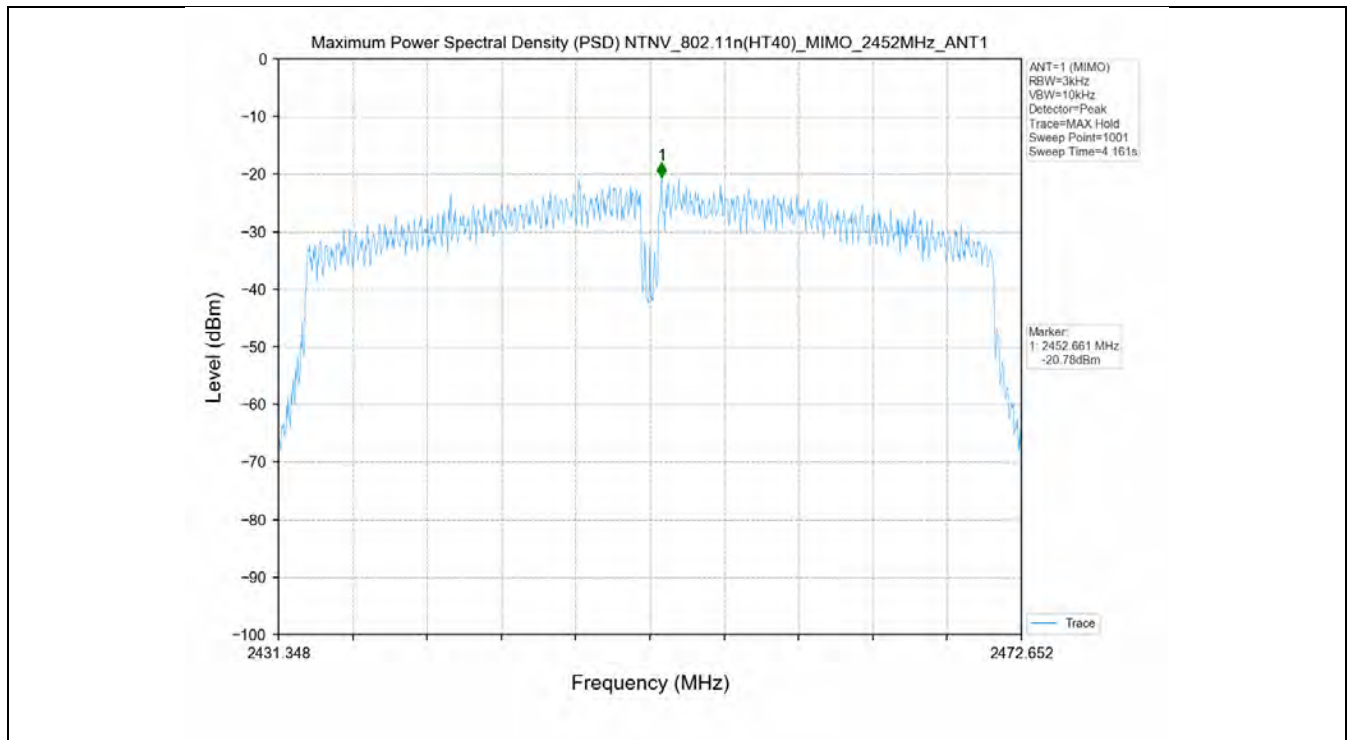


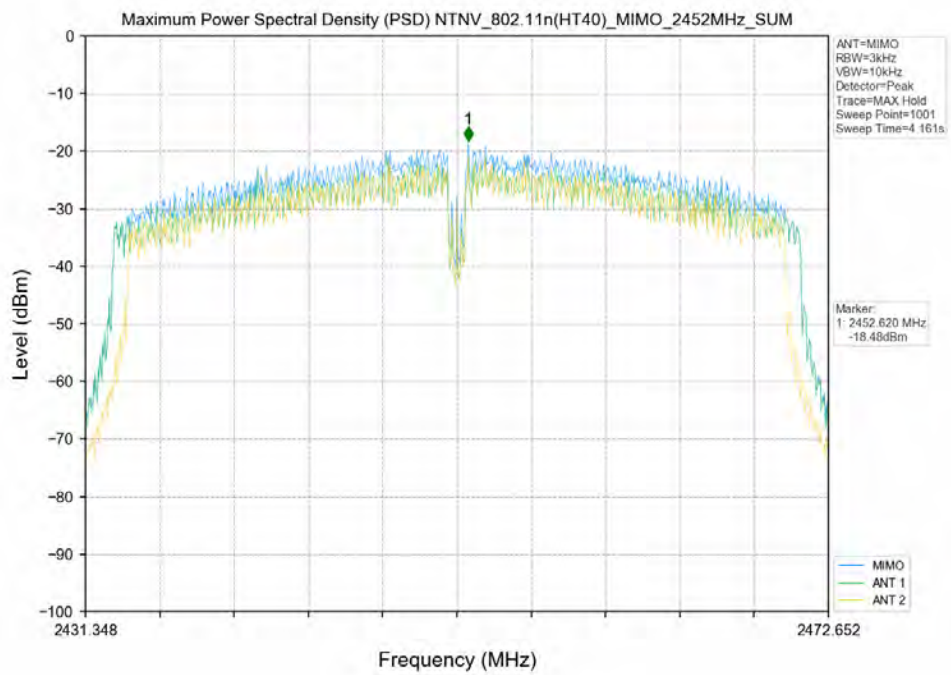














5. Unwanted Emissions in Non-restricted Frequency Bands

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	-14.59	PASS
			2	Refer to test graph	-14.59	PASS
	2437	SISO	1	Refer to test graph	-14.59	PASS
			2	Refer to test graph	-14.59	PASS
	2462	SISO	1	Refer to test graph	-14.59	PASS
			2	Refer to test graph	-14.59	PASS
802.11g	2412	SISO	1	Refer to test graph	-18.50	PASS
			2	Refer to test graph	-18.50	PASS
	2437	SISO	1	Refer to test graph	-18.50	PASS
			2	Refer to test graph	-18.50	PASS
	2462	SISO	1	Refer to test graph	-18.50	PASS
			2	Refer to test graph	-18.50	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-18.48	PASS
			2	Refer to test graph	-18.48	PASS
	2437	MIMO	1	Refer to test graph	-18.48	PASS
			2	Refer to test graph	-18.48	PASS
	2462	MIMO	1	Refer to test graph	-18.48	PASS
			2	Refer to test graph	-18.48	PASS
802.11n(HT4)	2422	MIMO	1	Refer to test graph	-26.21	PASS
			2	Refer to test graph	-26.21	PASS
	2437	MIMO	1	Refer to test graph	-26.21	PASS
			2	Refer to test graph	-26.21	PASS
	2452	MIMO	1	Refer to test graph	-26.21	PASS
			2	Refer to test graph	-26.21	PASS

5.2 Test Graph

