

4. Maximum Power Spectral Density (PSD)

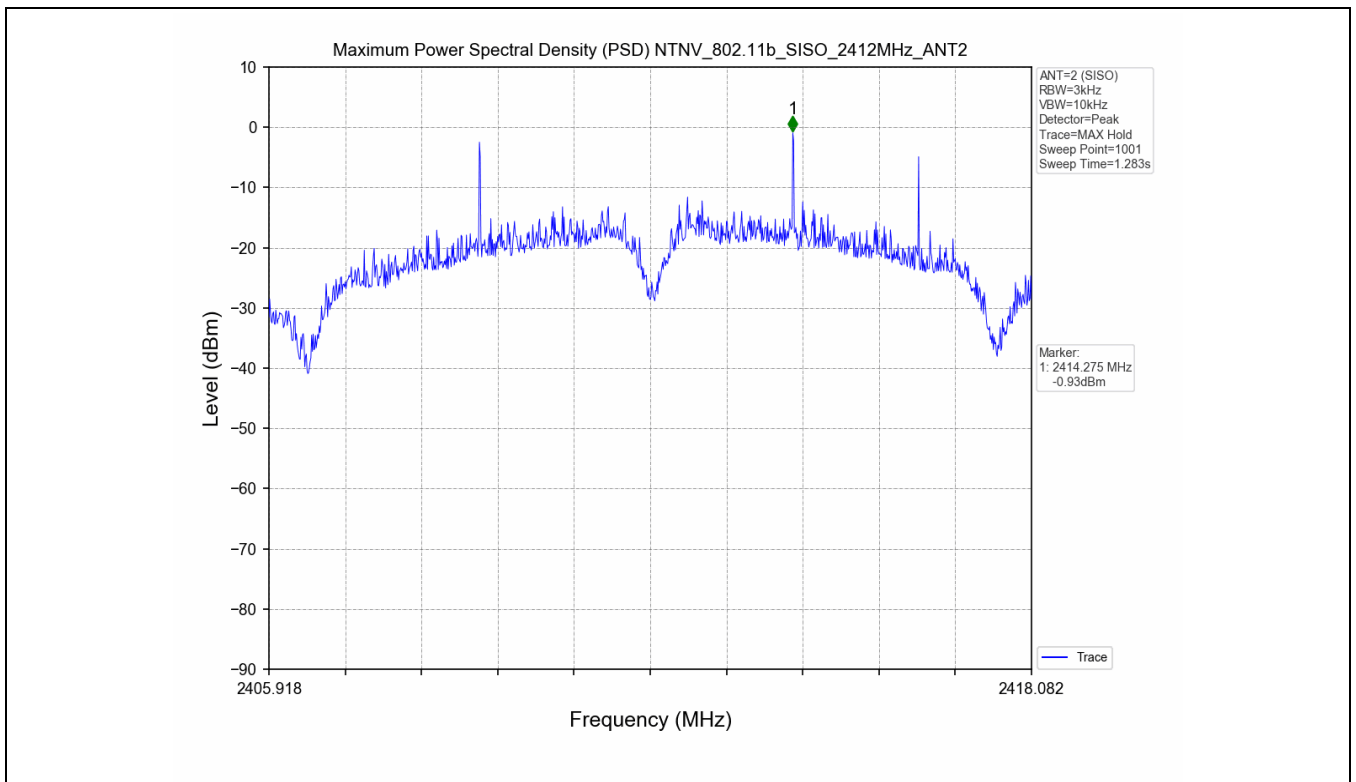
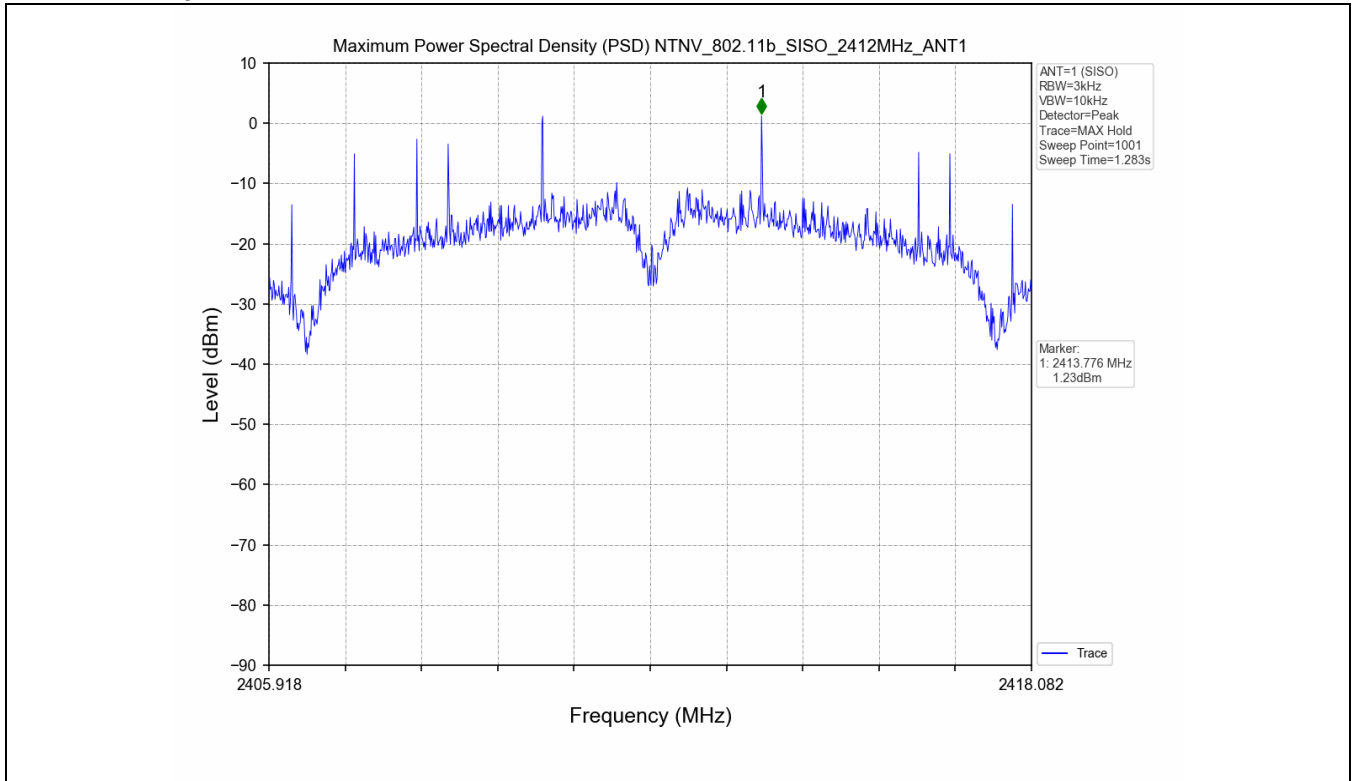
4.1 Test Result

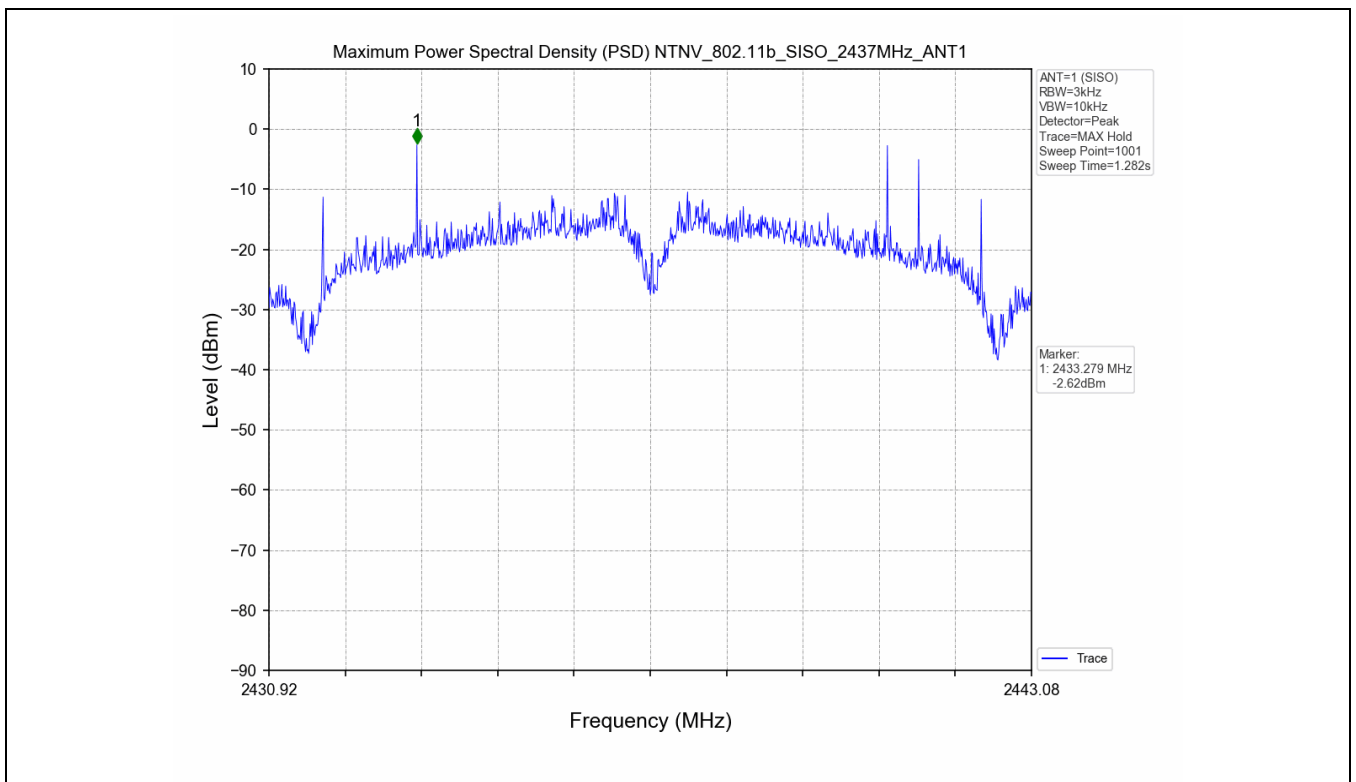
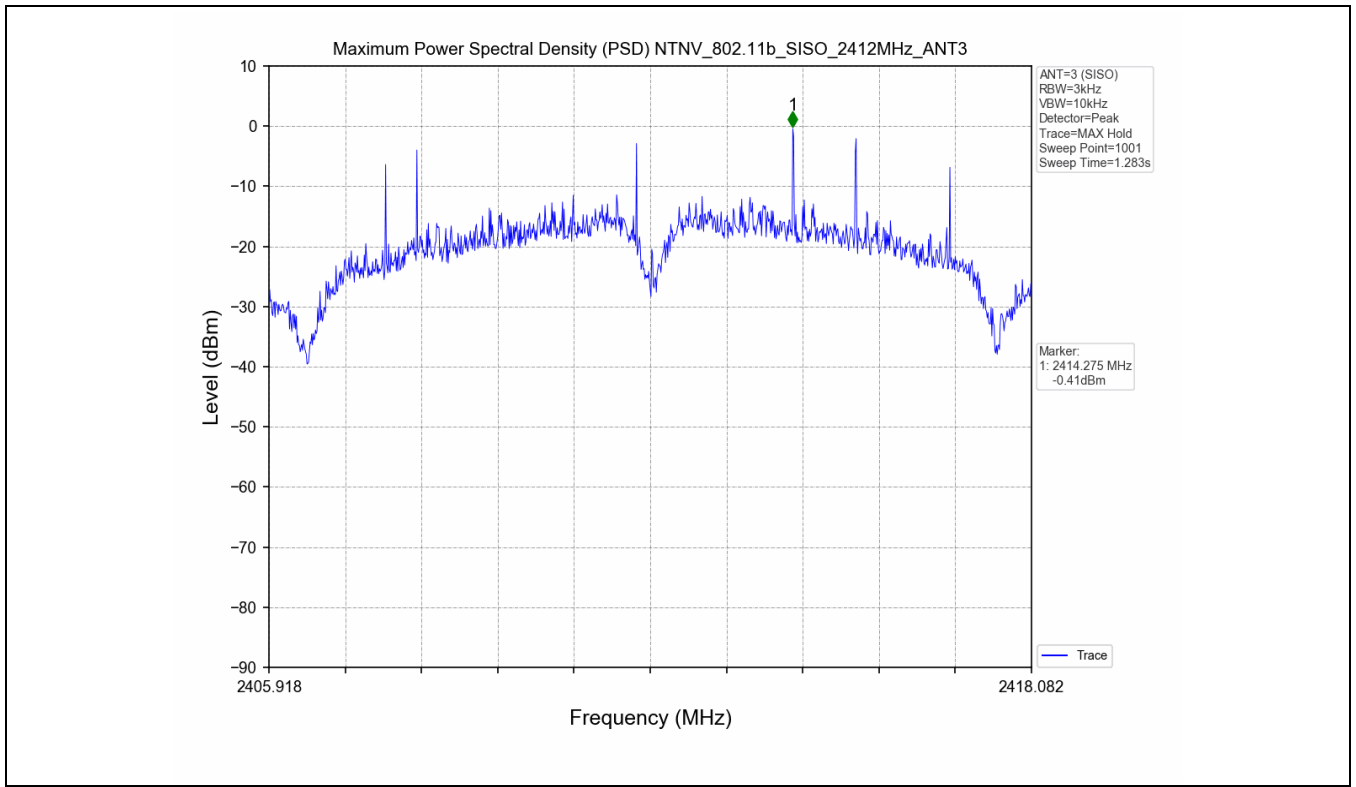
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)				Limits (dBm/3kHz)		Verdict
			Ant 1	Ant 2	Ant 3	Total	SISO	MIMO	
802.11b	2412	SISO	1.23	-0.93	-0.41	/	≤8	/	PASS
	2437	SISO	-2.62	1.62	-5.25	/	≤8	/	PASS
	2462	SISO	-1.94	2.62	4.06	/	≤8	/	PASS
802.11g	2412	SISO	-15.32	-16.96	-15.30	/	≤8	/	PASS
	2437	SISO	-15.70	-16.78	-16.13	/	≤8	/	PASS
	2462	SISO	-15.26	-13.81	-13.77	/	≤8	/	PASS
802.11n(HT20)	2412	MIMO	-14.85	-15.55	-15.43	-10.86	/	≤6.03	PASS
	2437	MIMO	-14.62	-15.32	-14.54	-10.61	/	≤6.03	PASS
	2462	MIMO	-13.53	-12.82	-12.52	-8.62	/	≤6.03	PASS
802.11n(HT40)	2422	MIMO	-18.05	-18.68	-19.09	-14.75	/	≤6.03	PASS
	2437	MIMO	-18.81	-20.02	-19.00	-15.47	/	≤6.03	PASS
	2452	MIMO	-19.16	-17.62	-17.65	-14.26	/	≤6.03	PASS

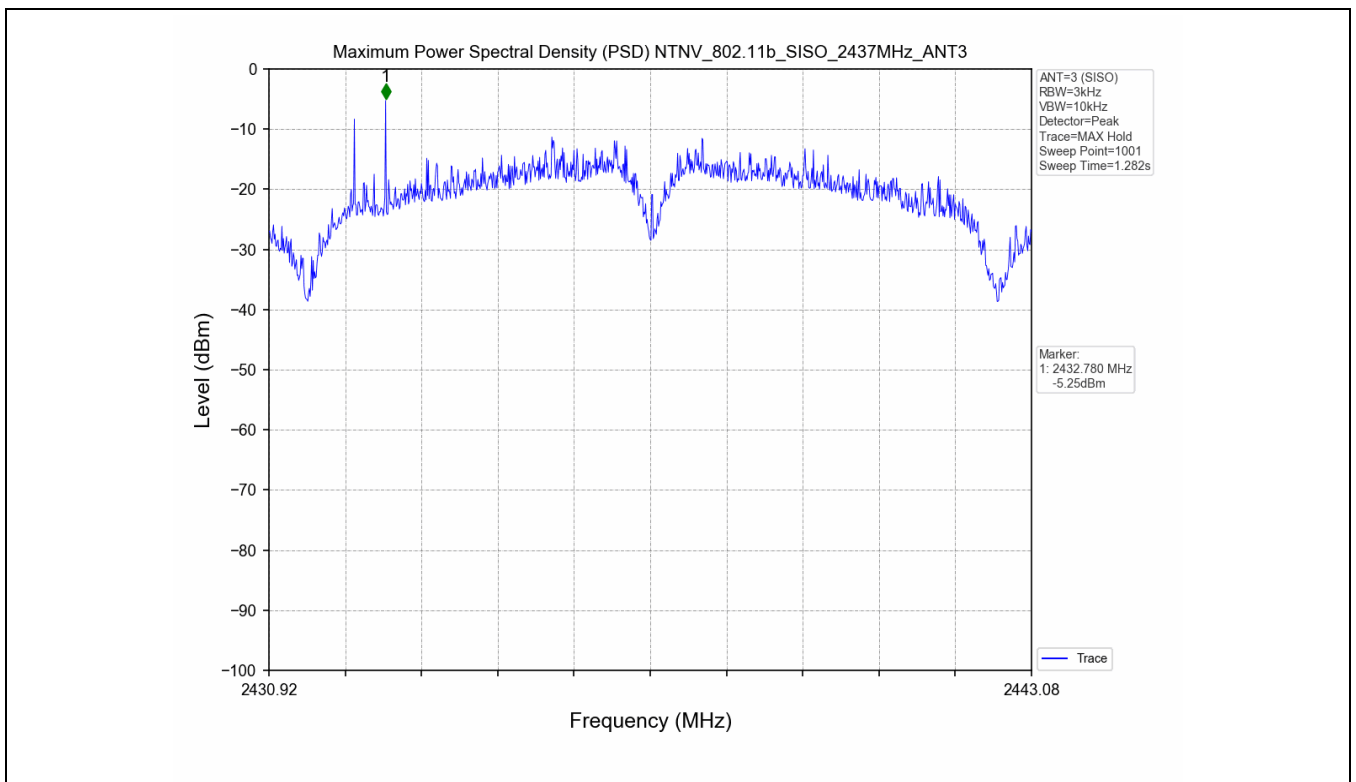
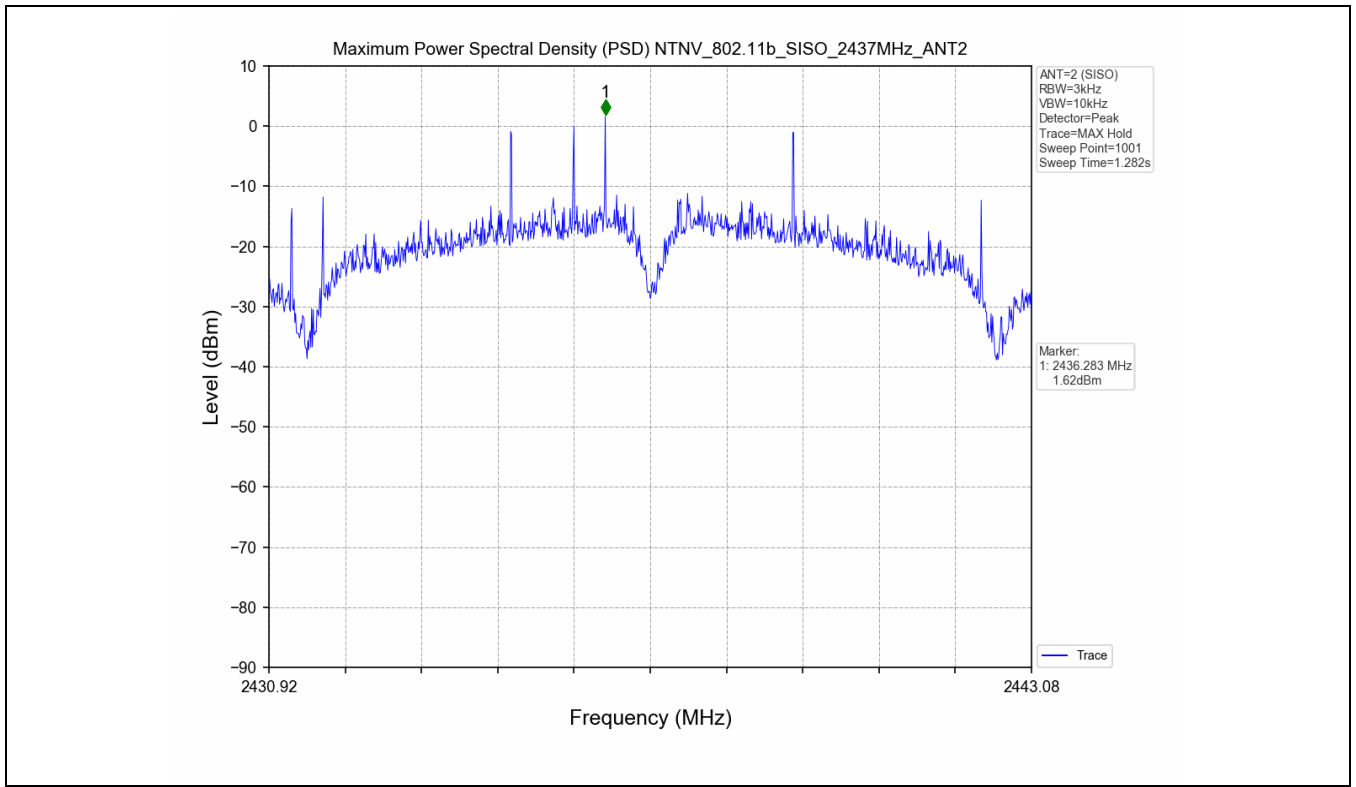
Note: Directional gain=G_{ant} + Array gain= G_{Ant} + 10*log(N_{Ant}/N_{ss}) = 3.2+10*log(3/1) =7.97dBi.

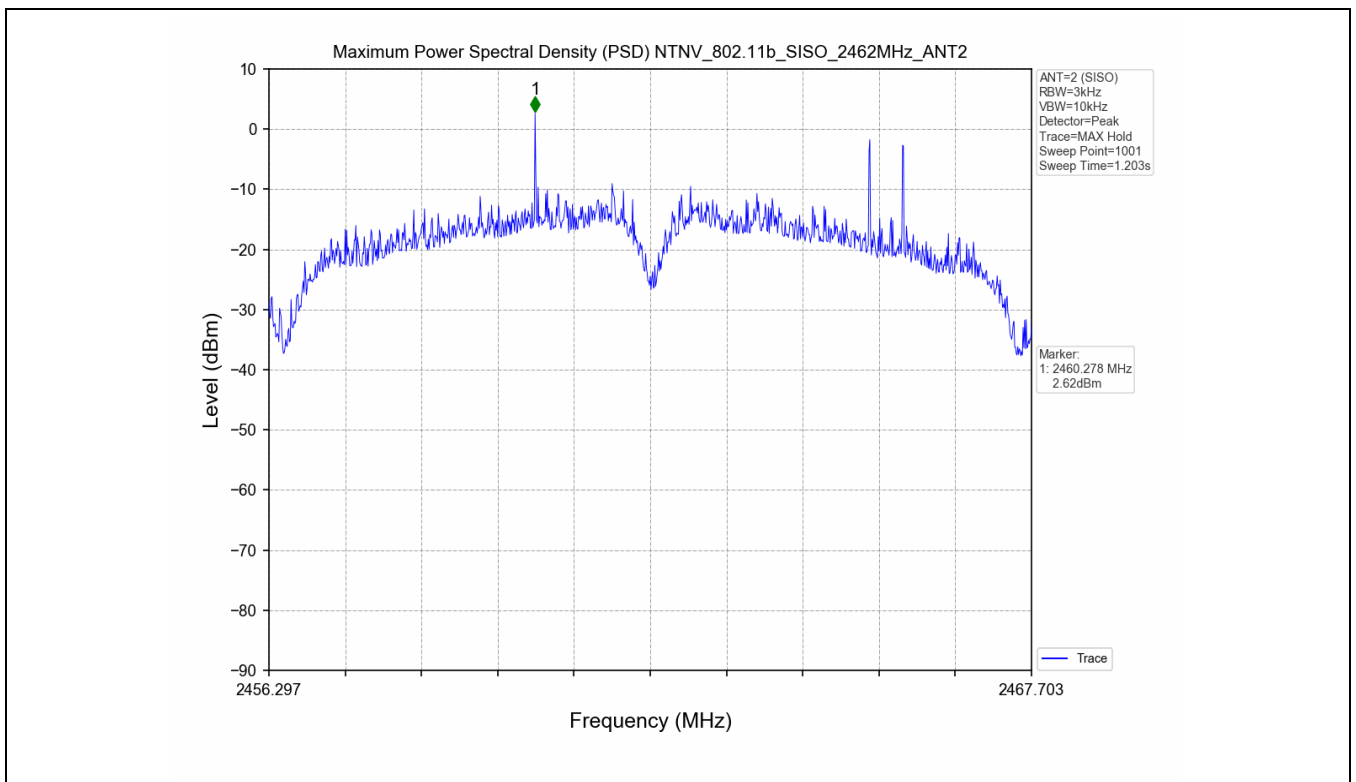
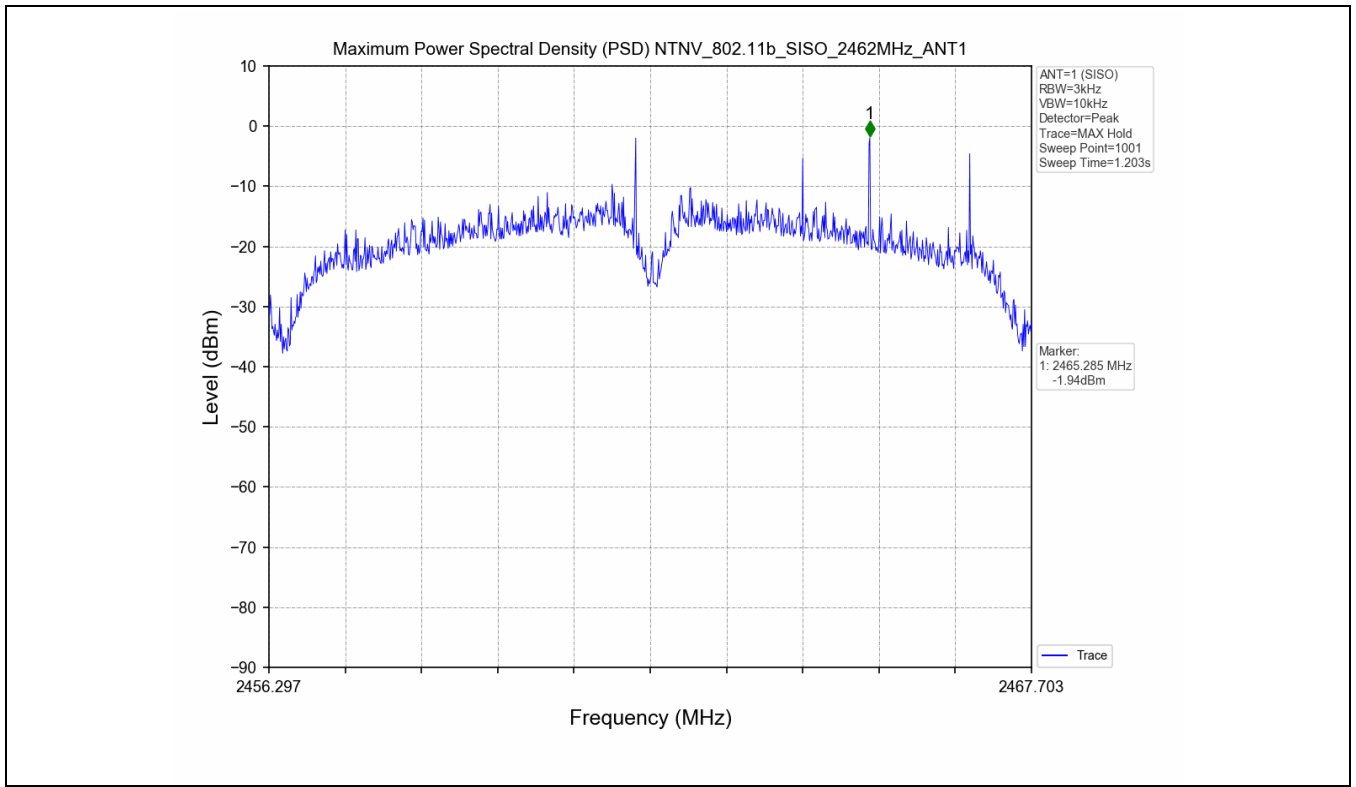


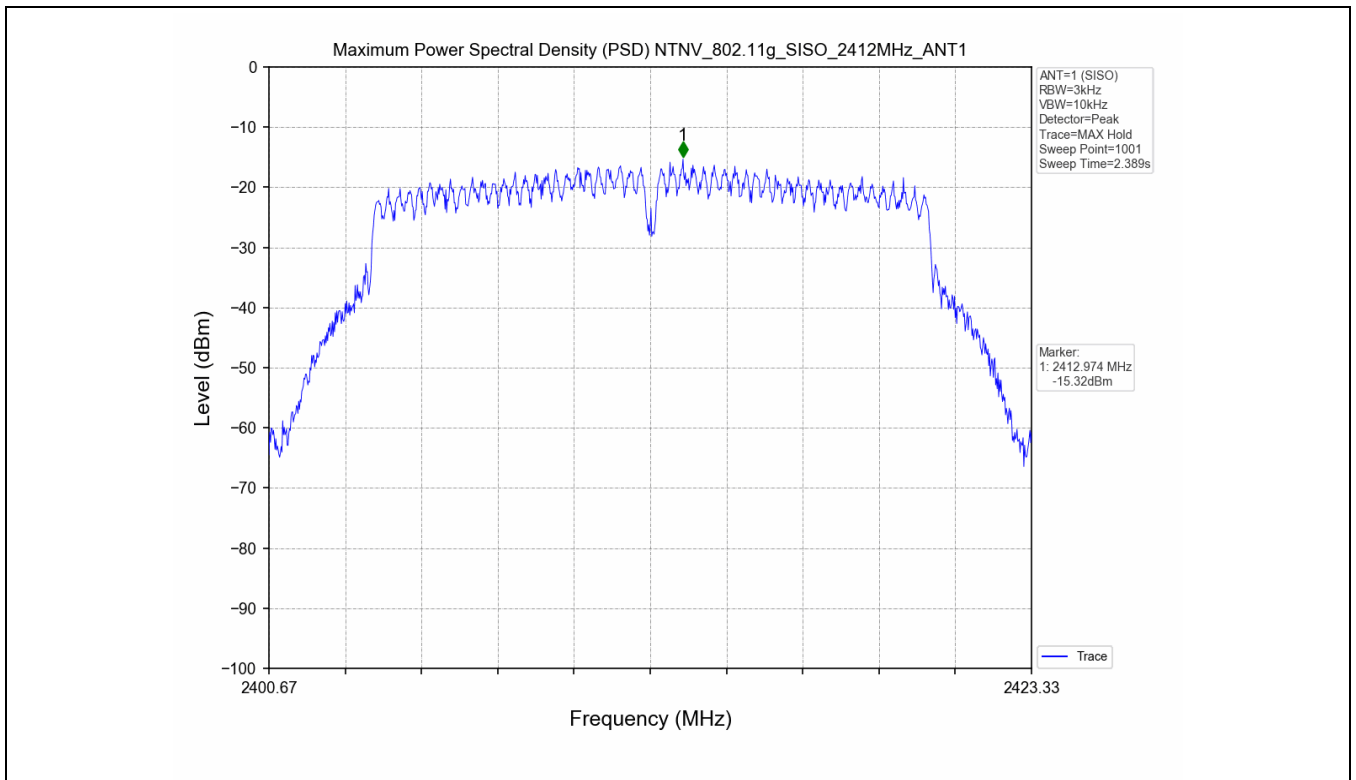
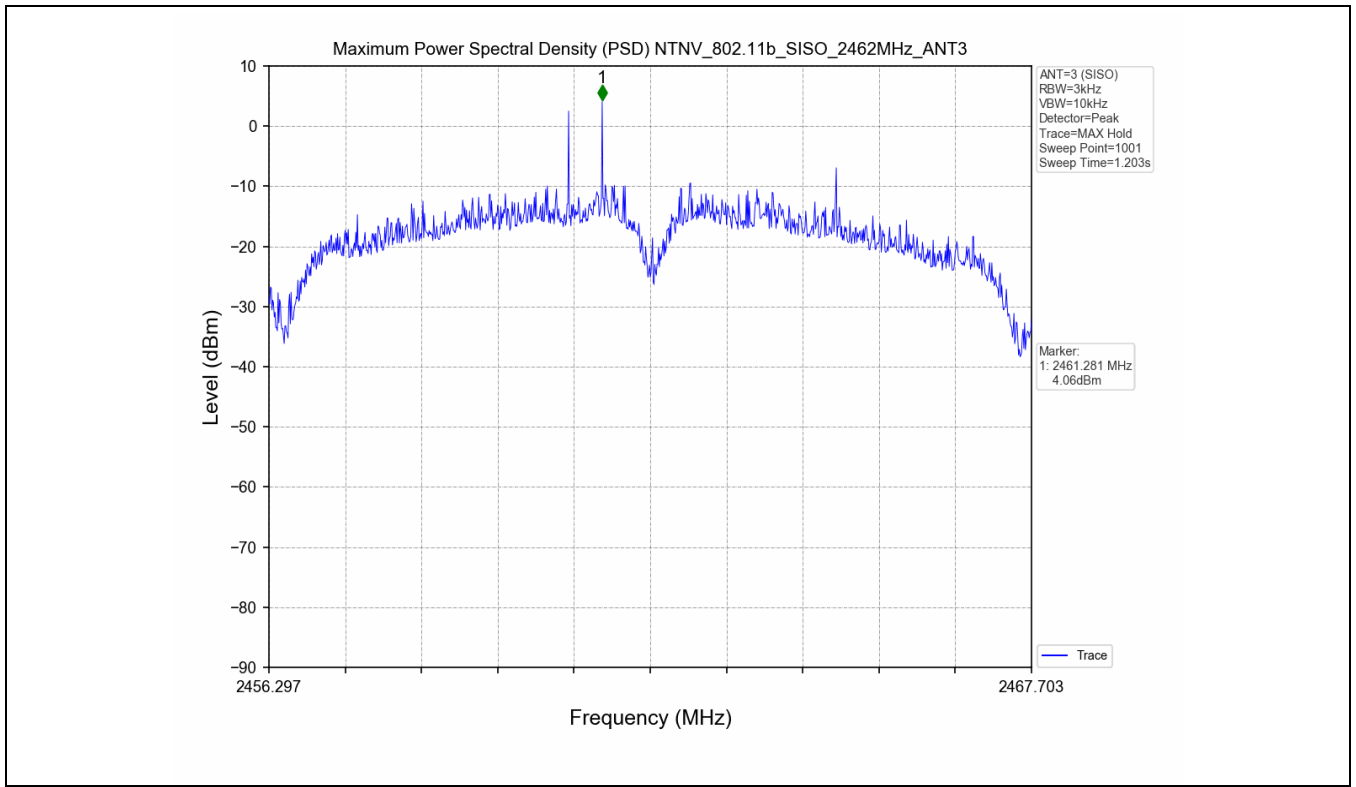
4.2 Test Graph

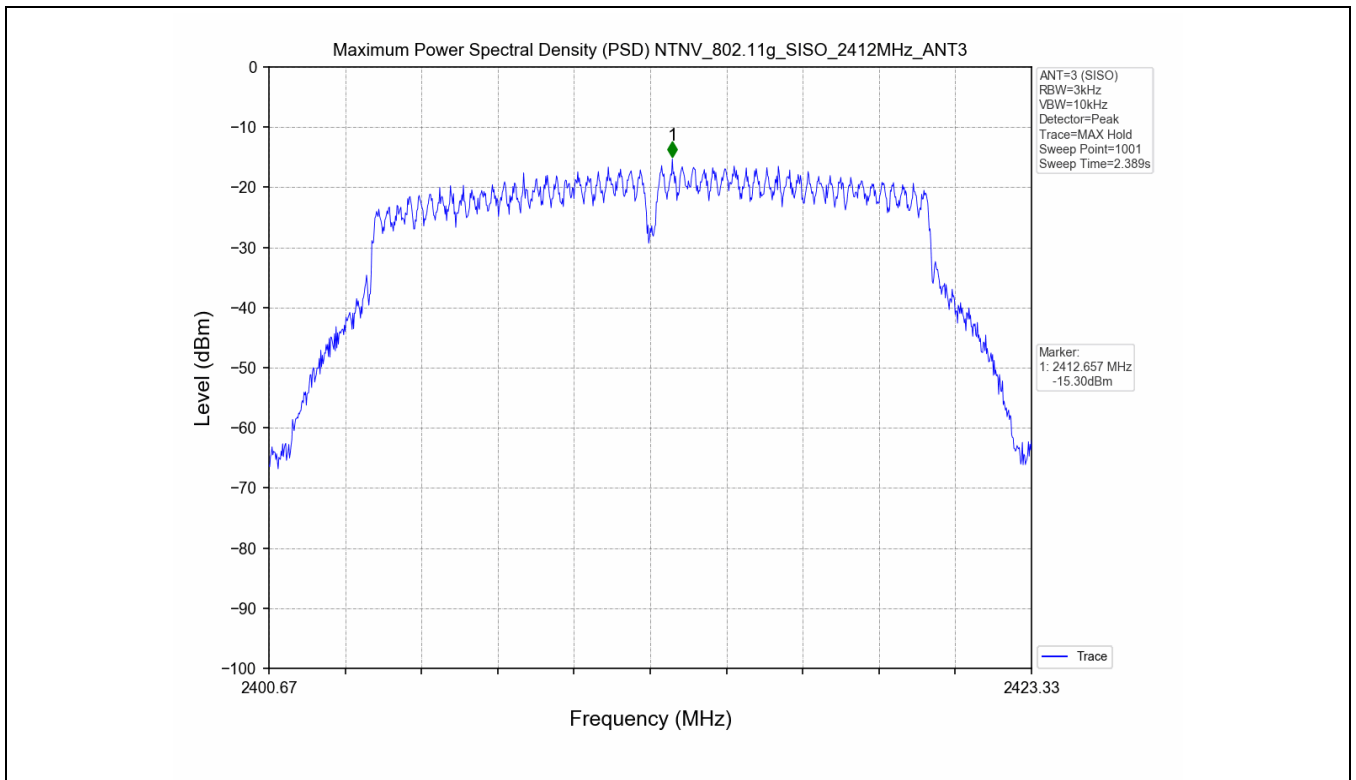
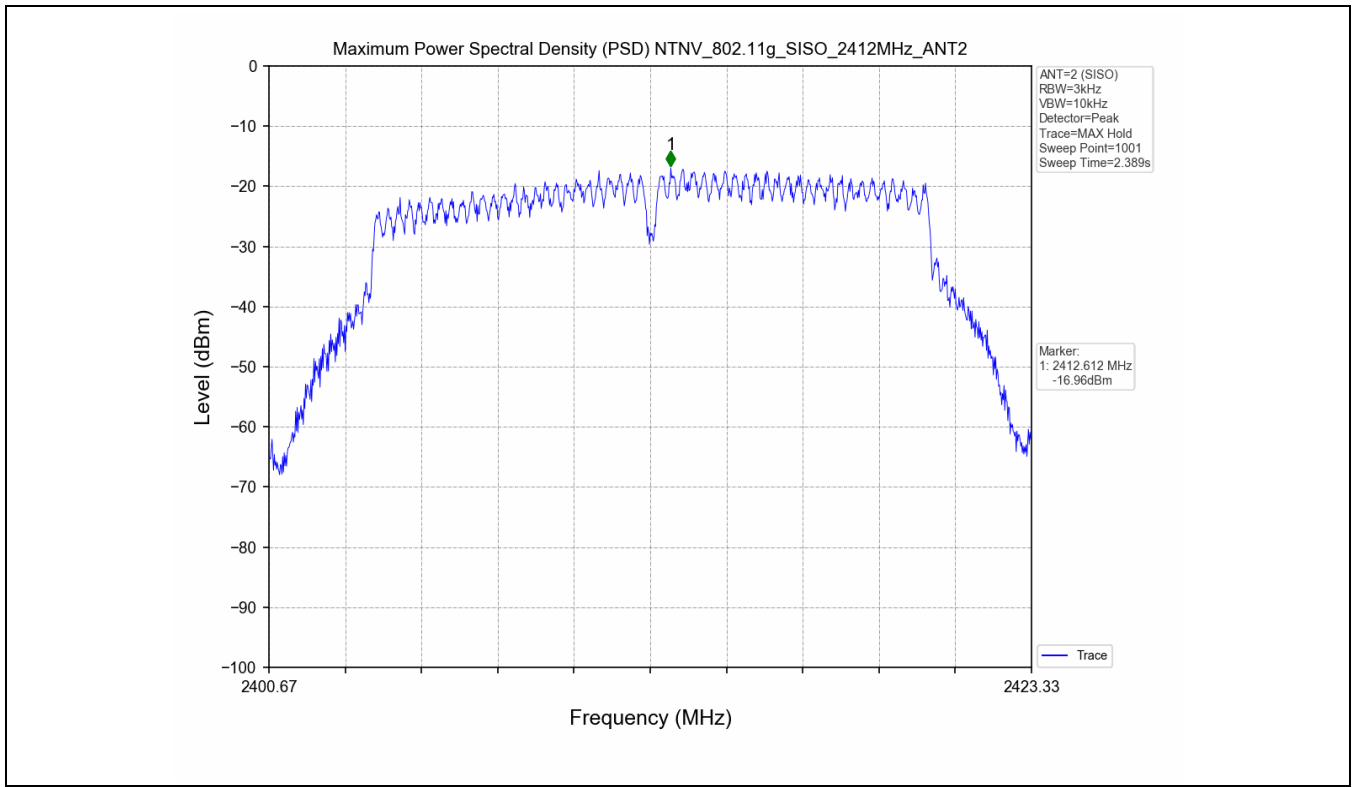


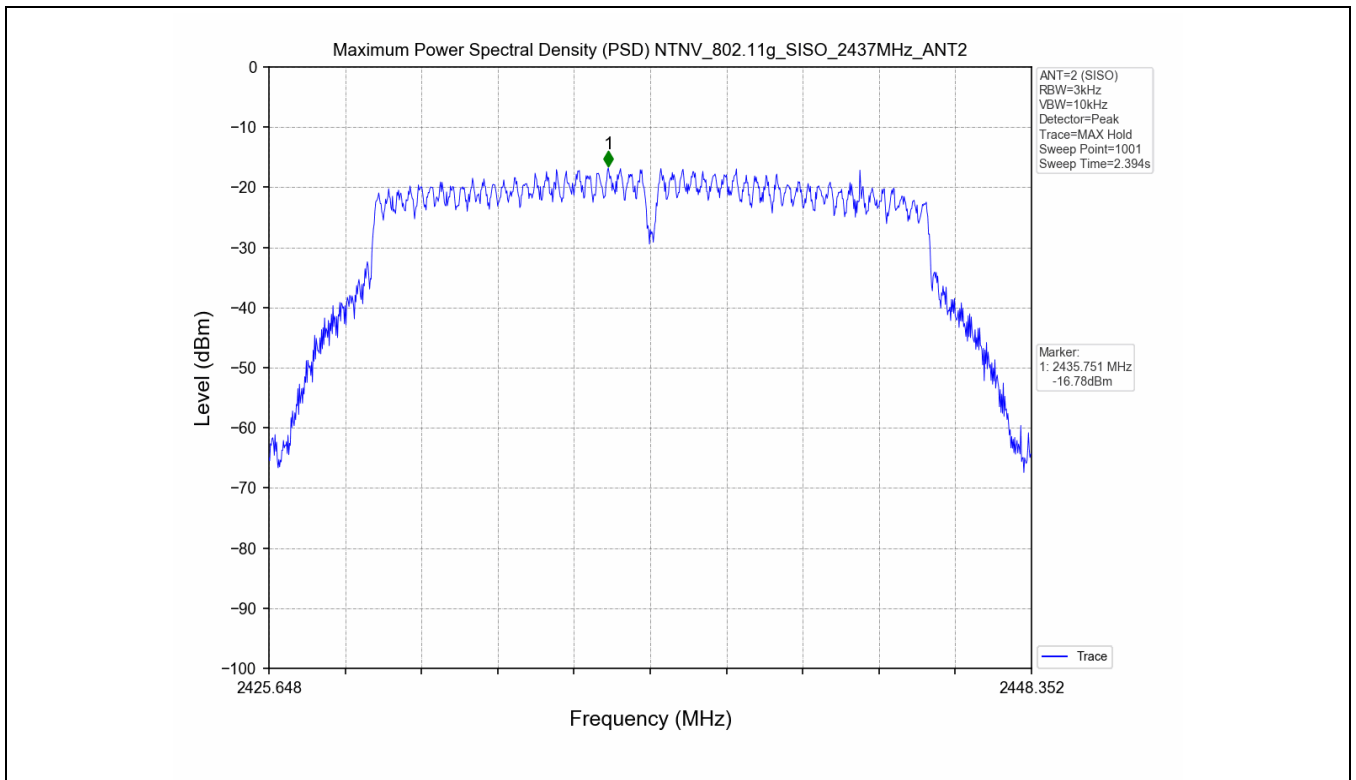
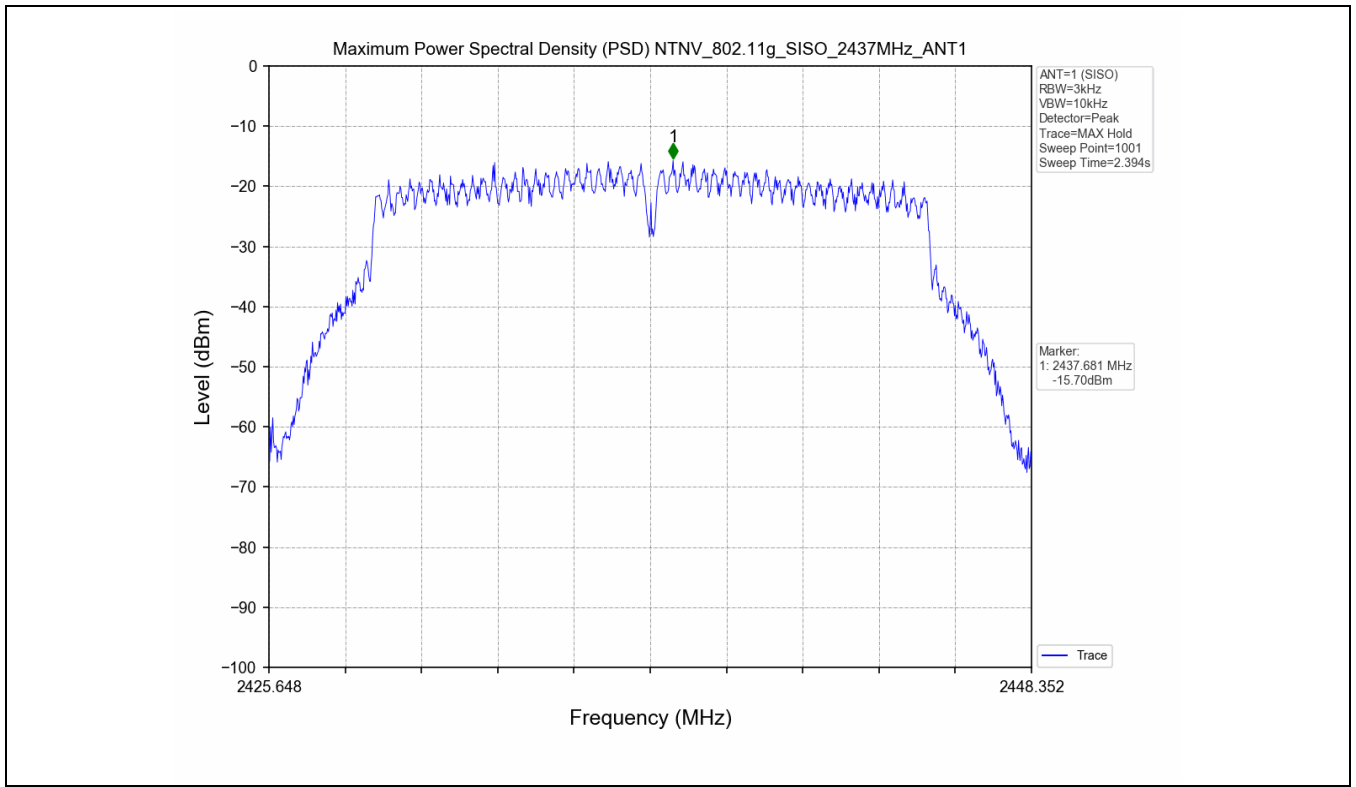


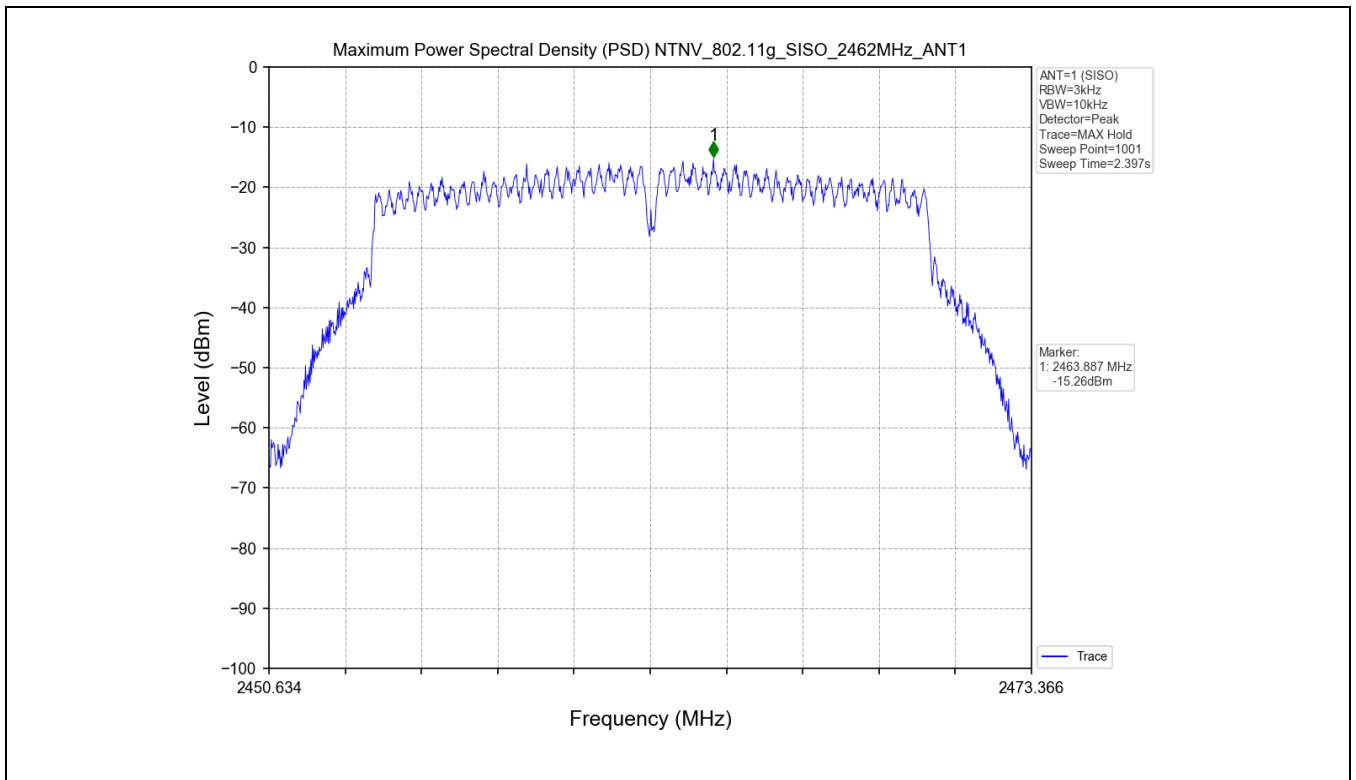
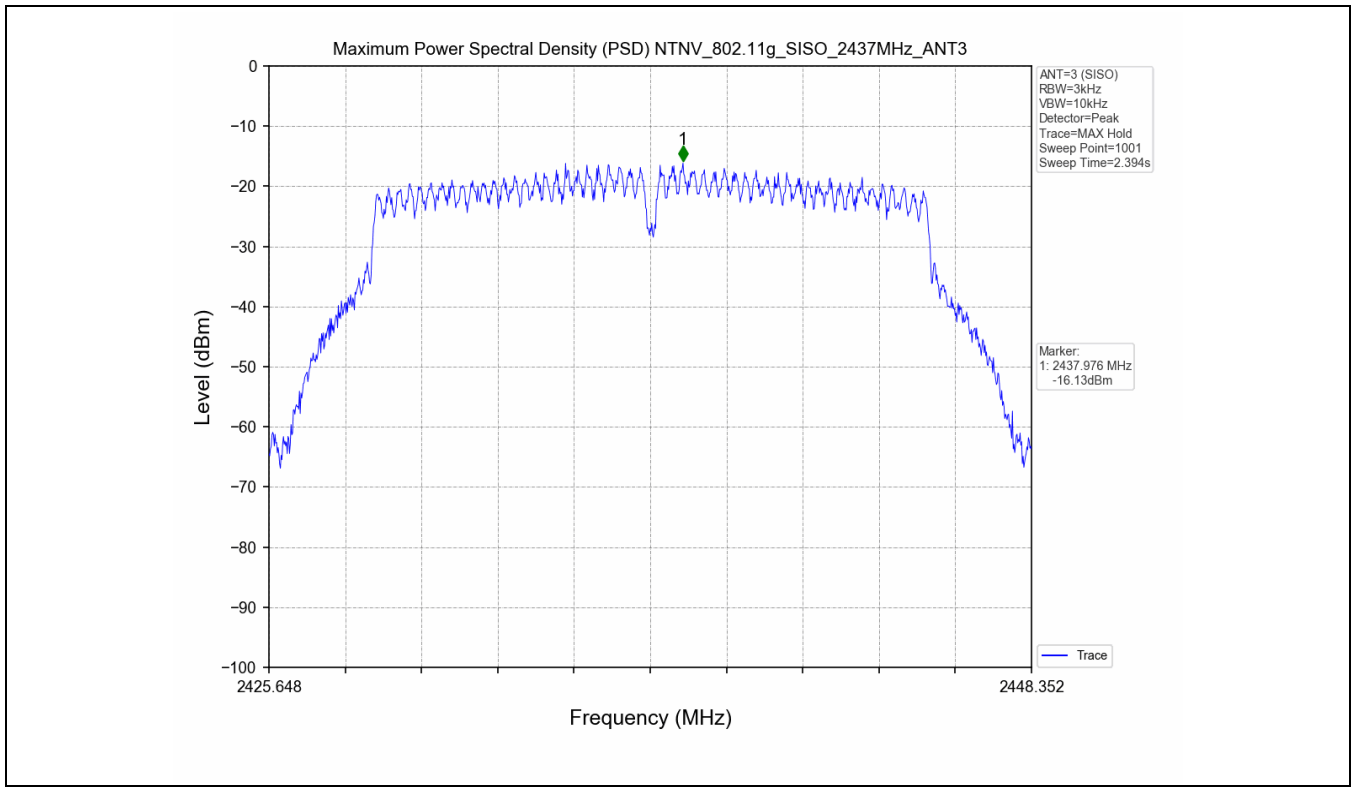


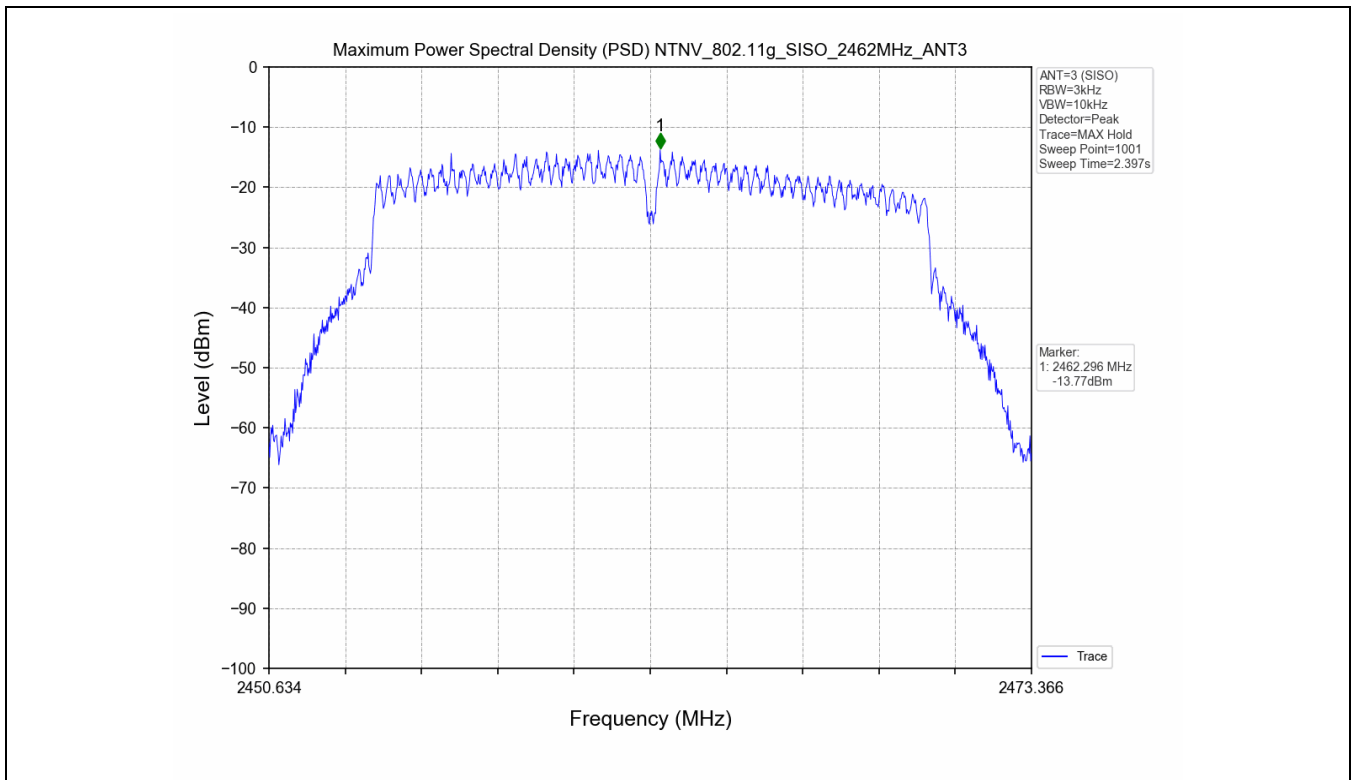
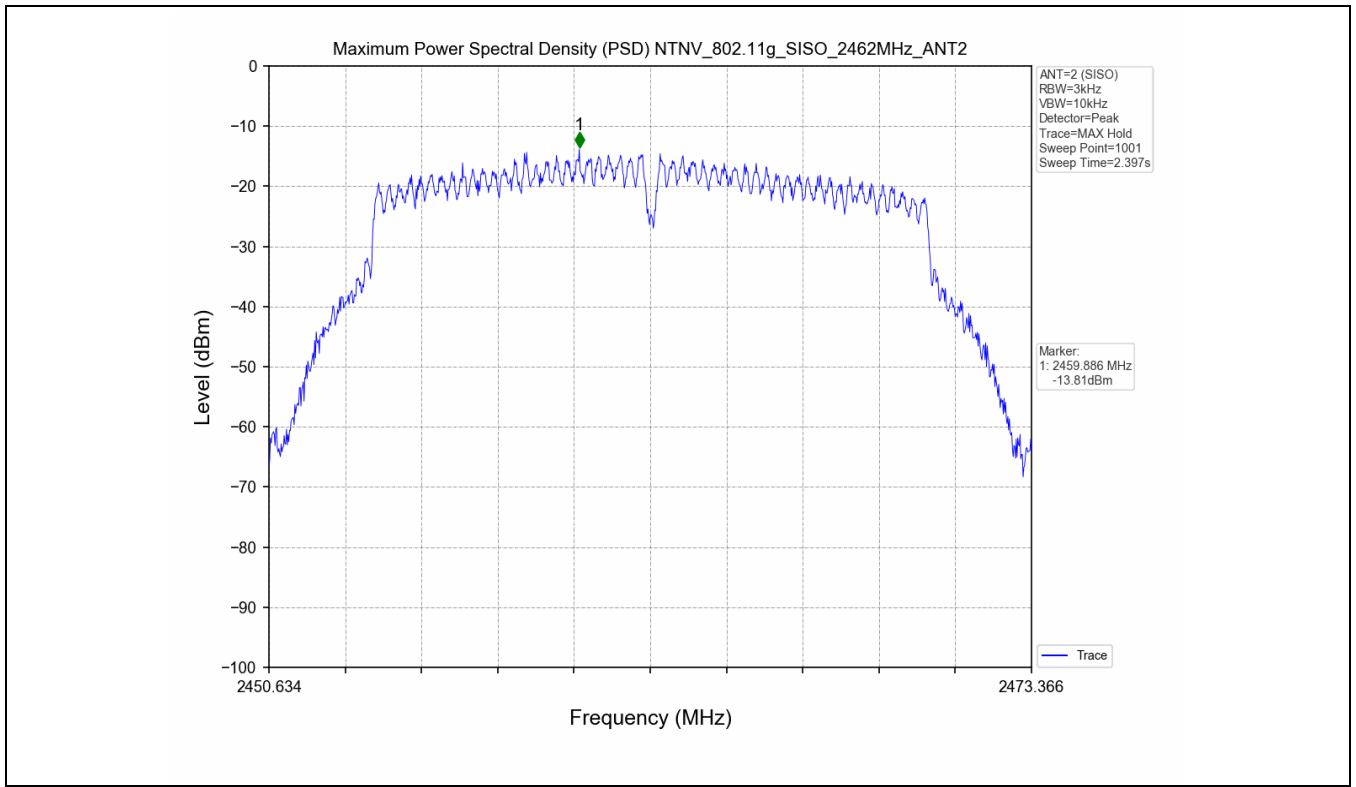


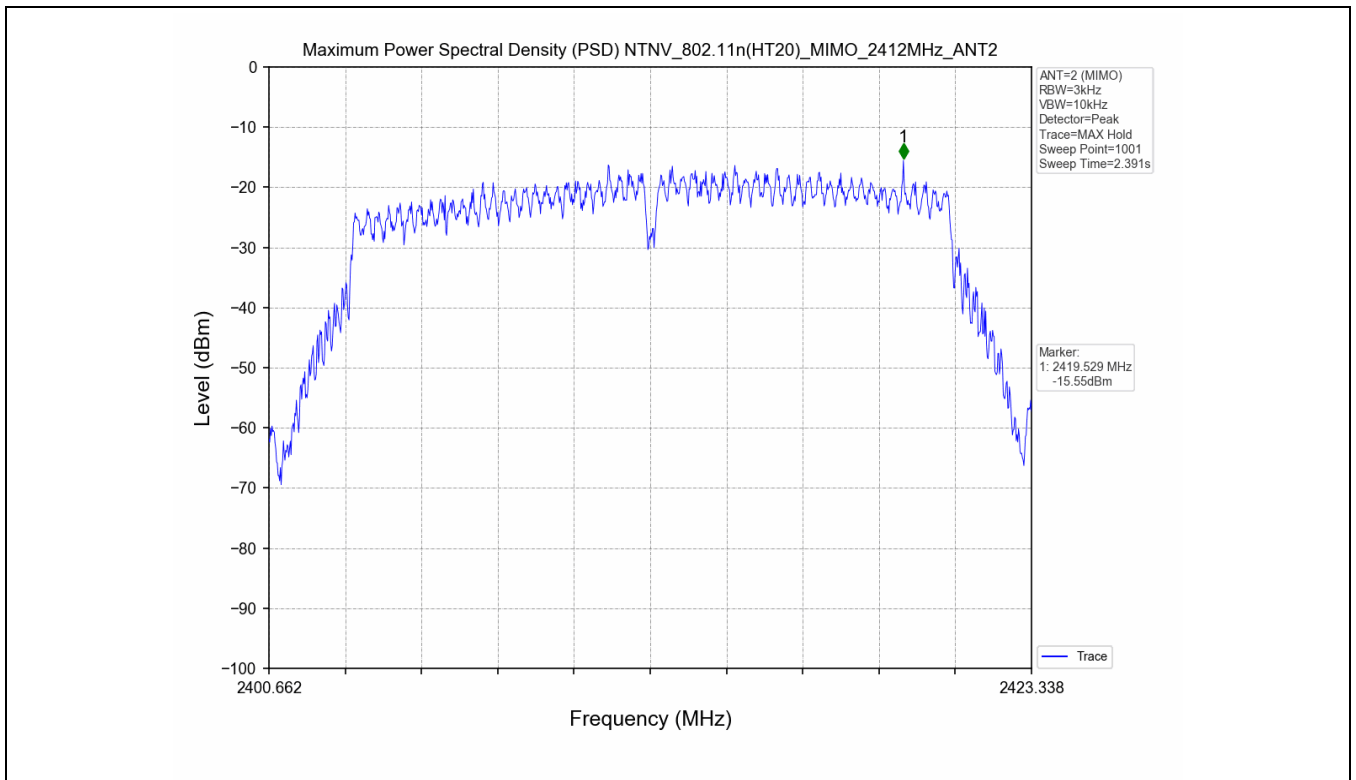
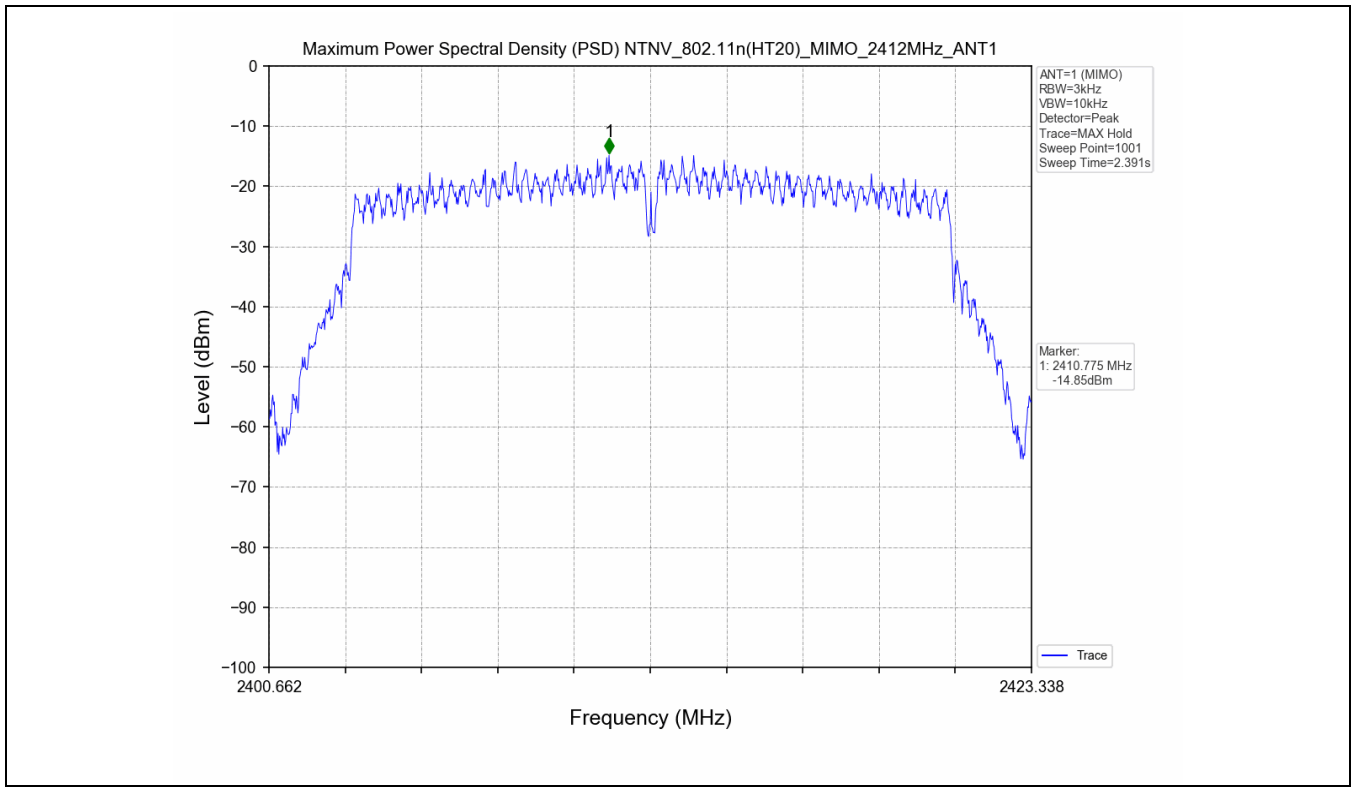


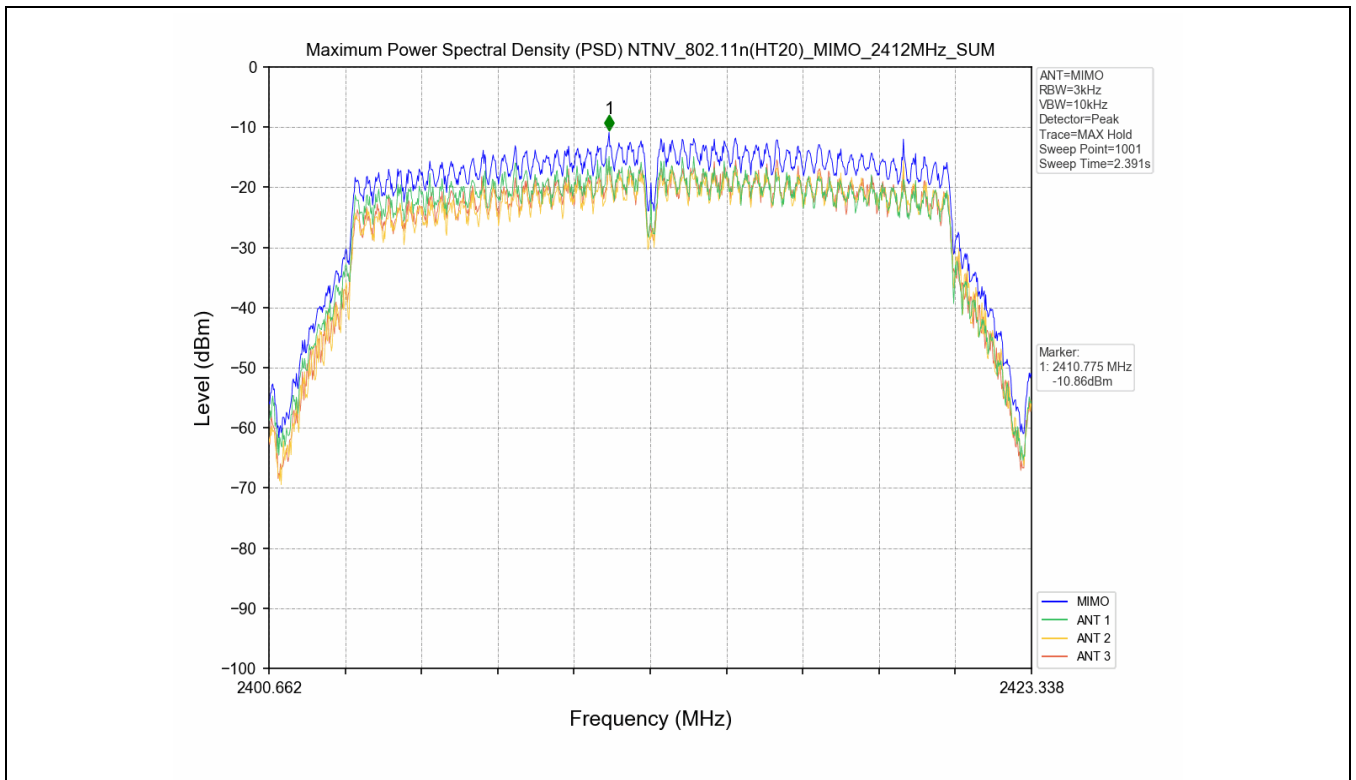
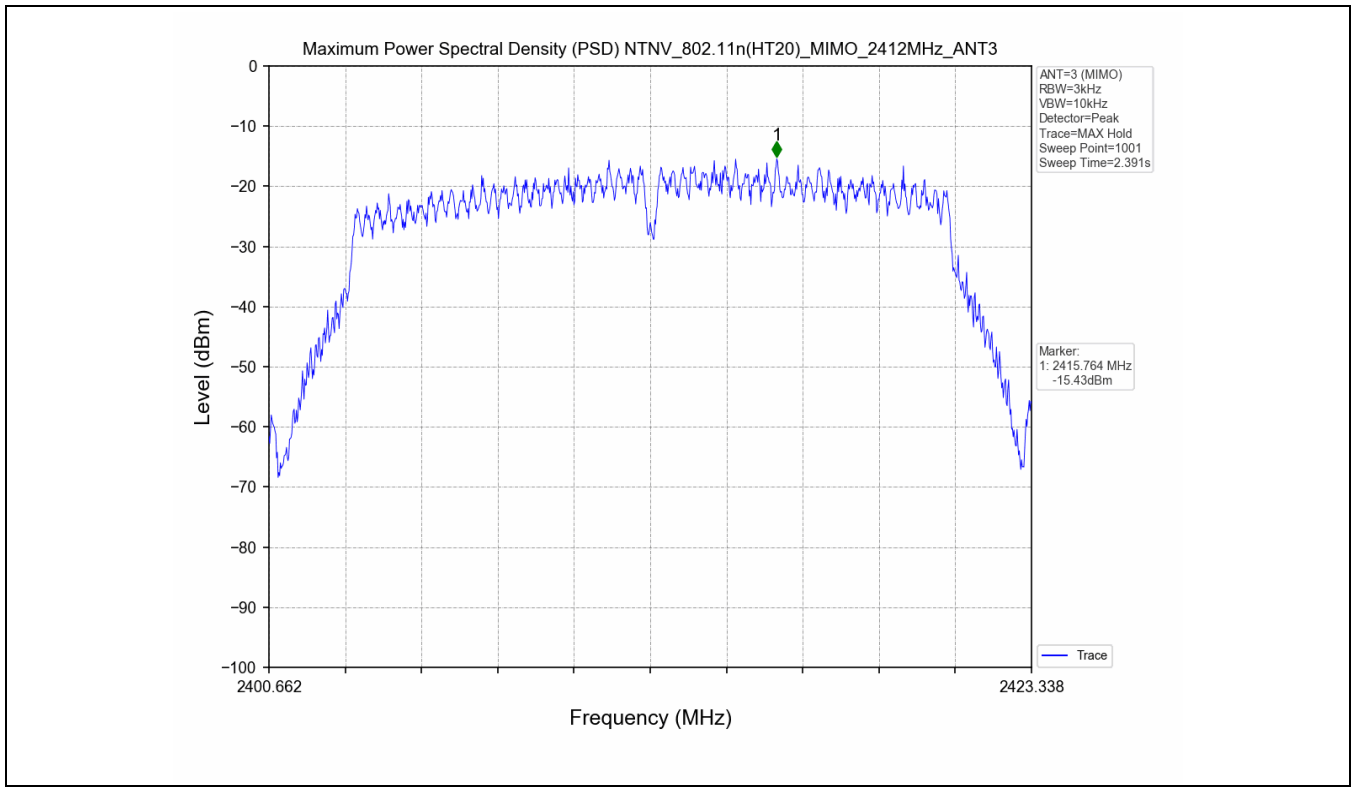


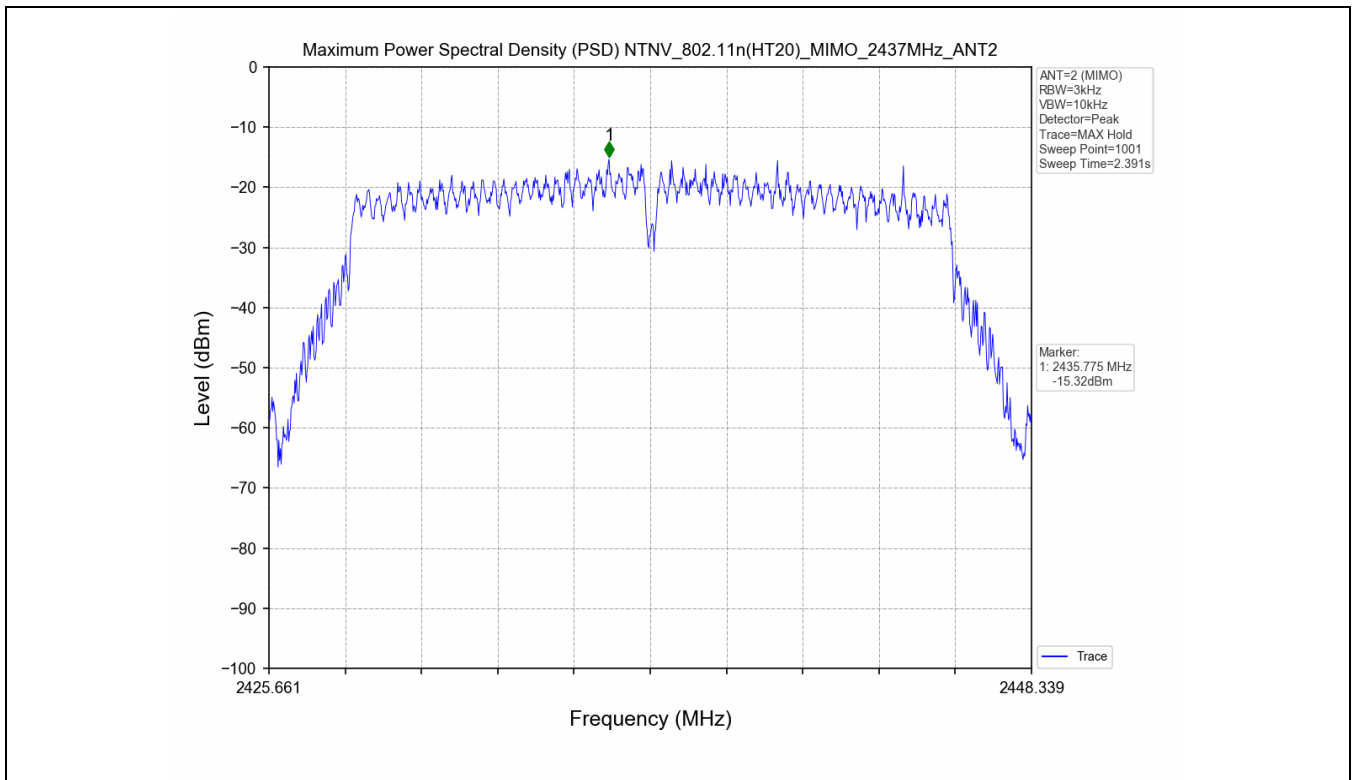
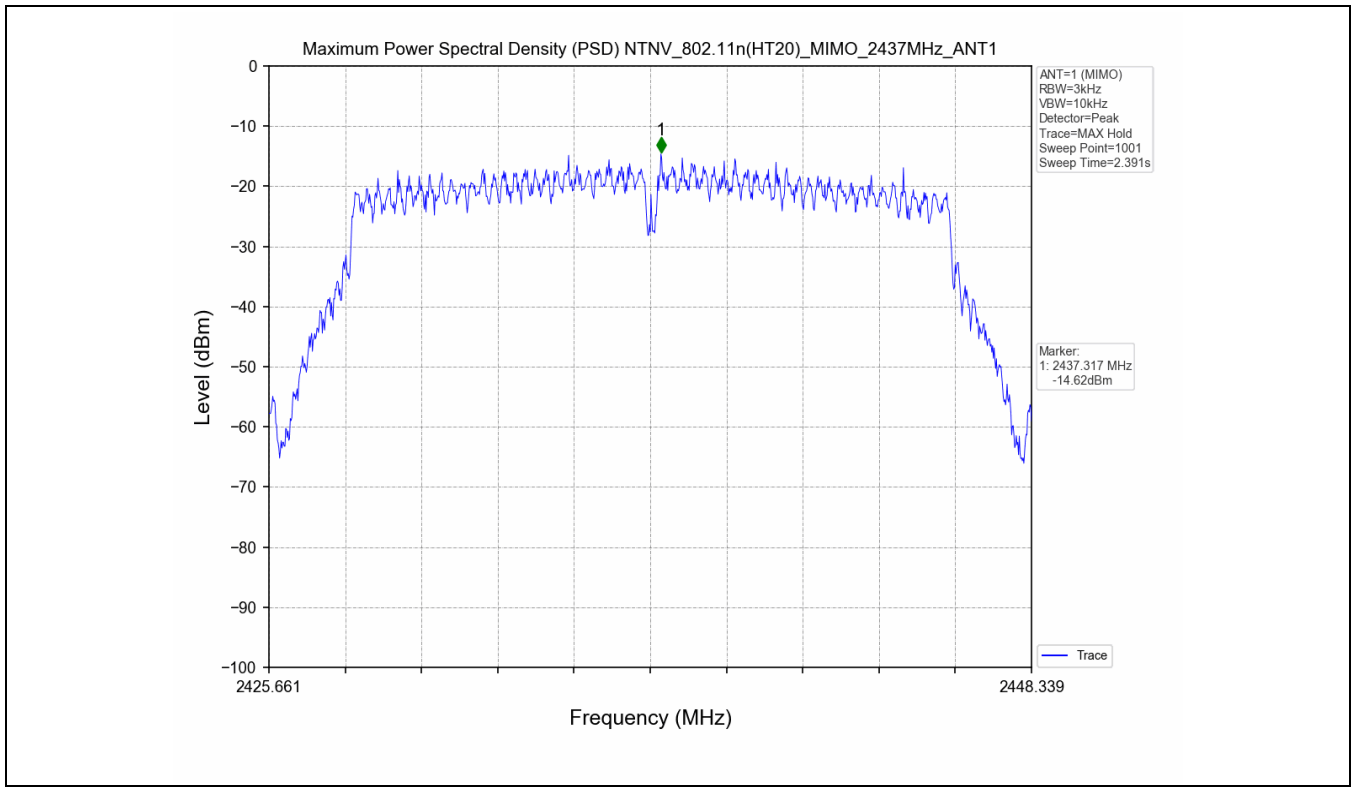


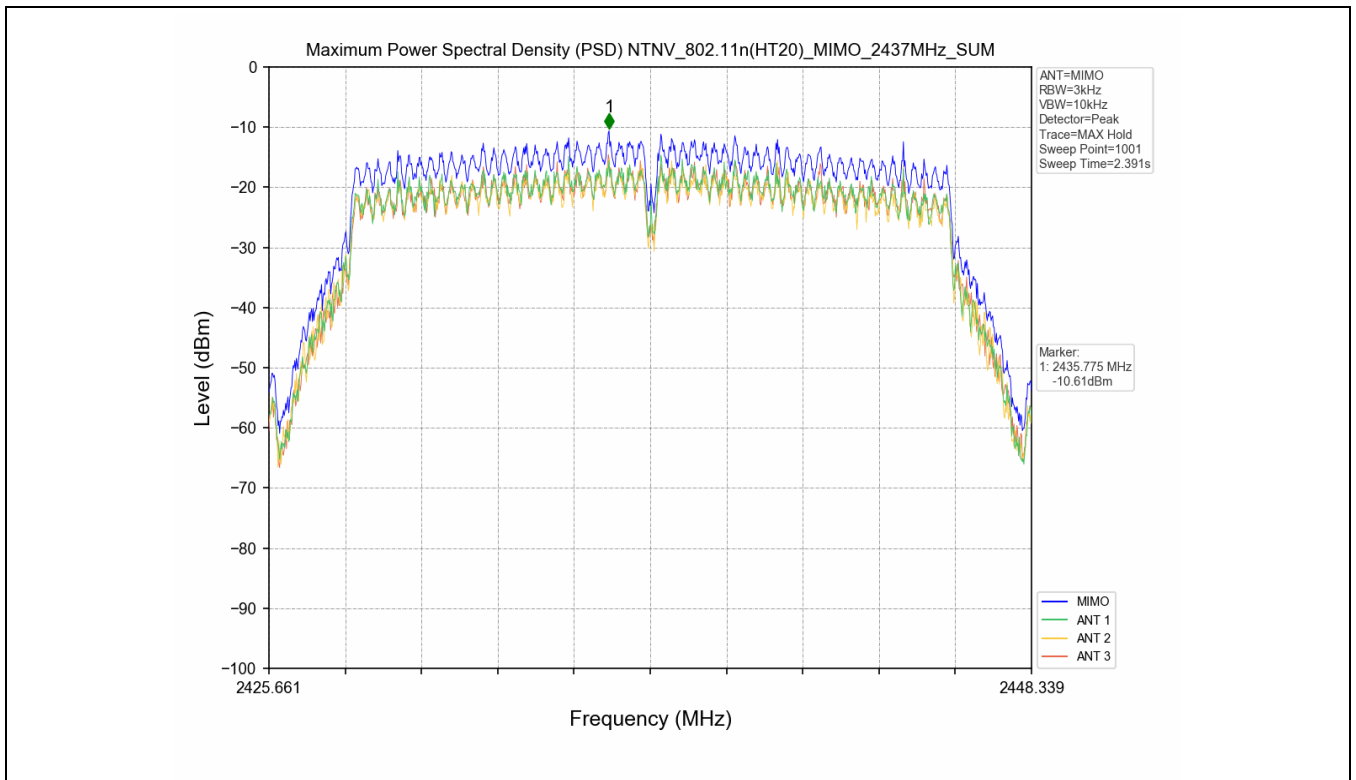
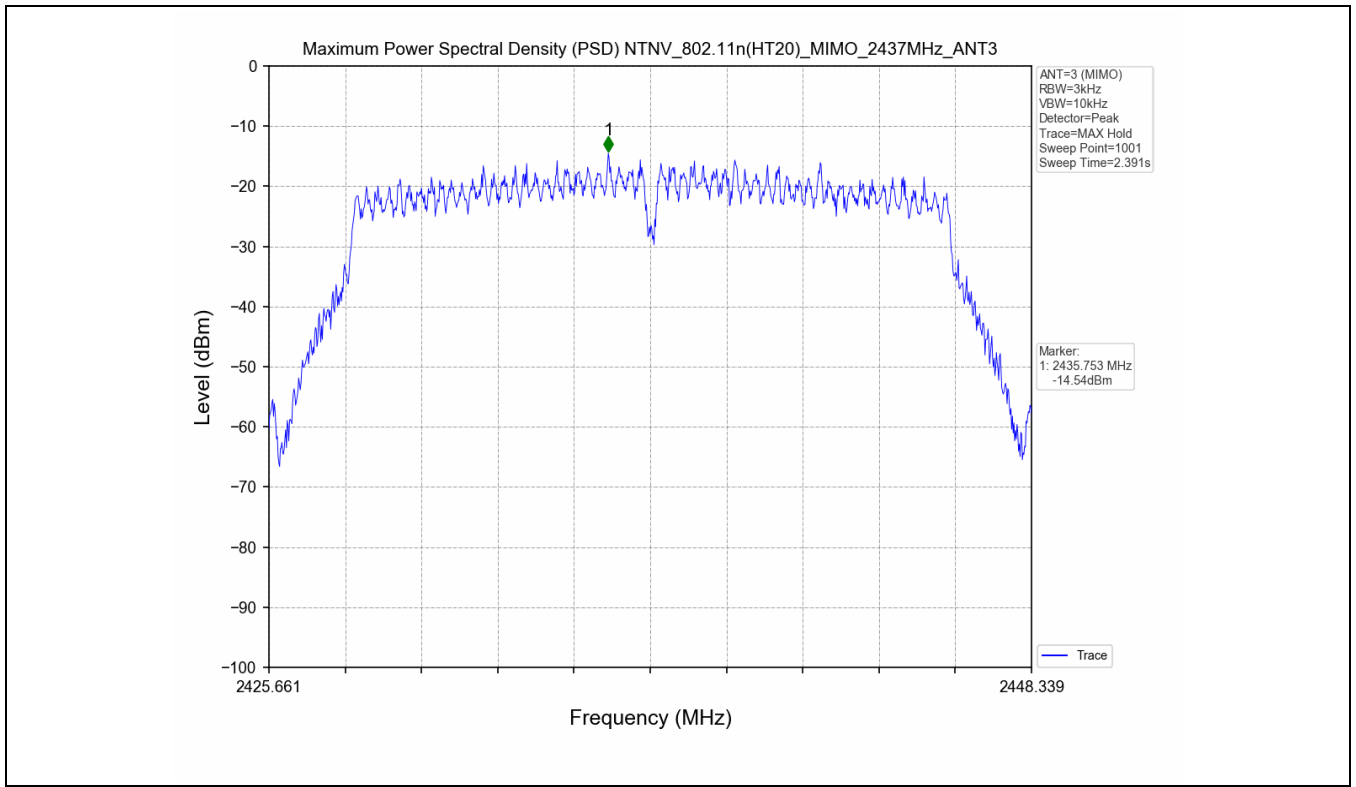


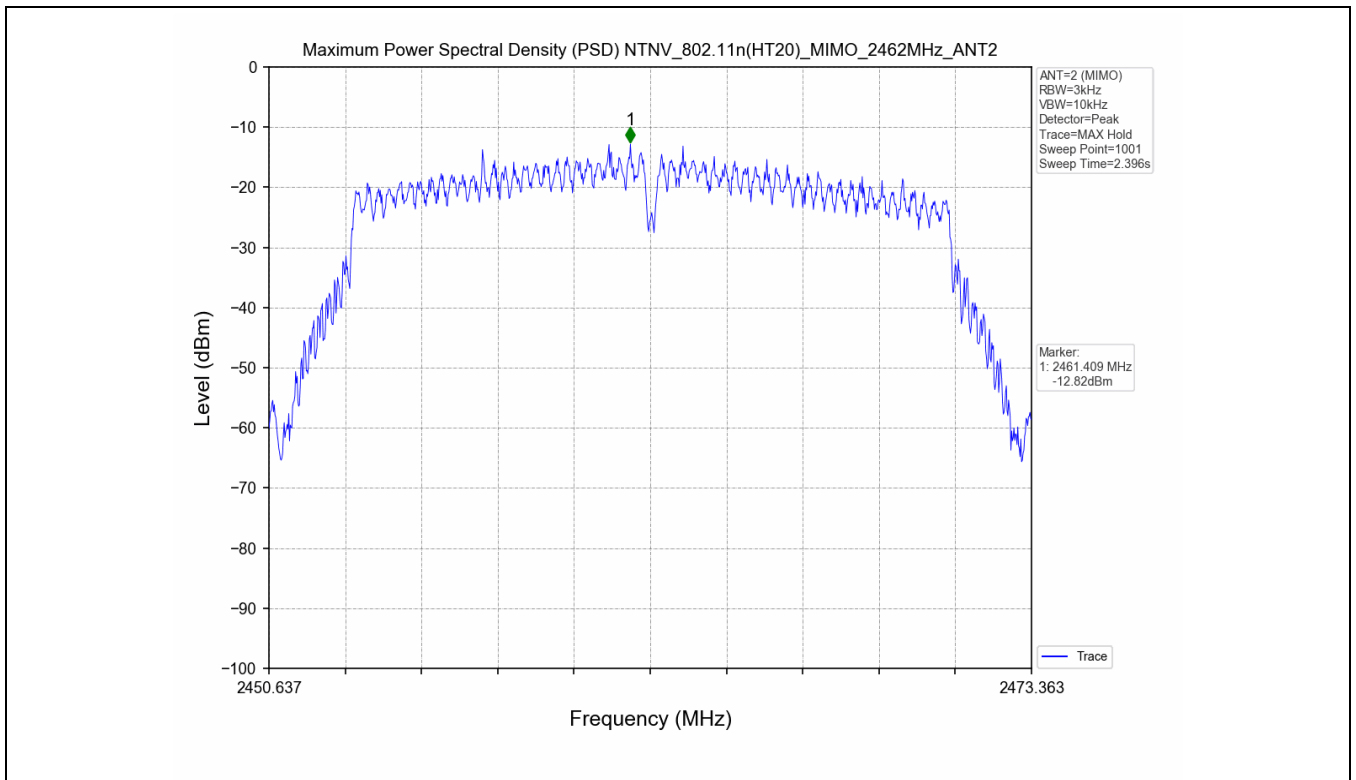
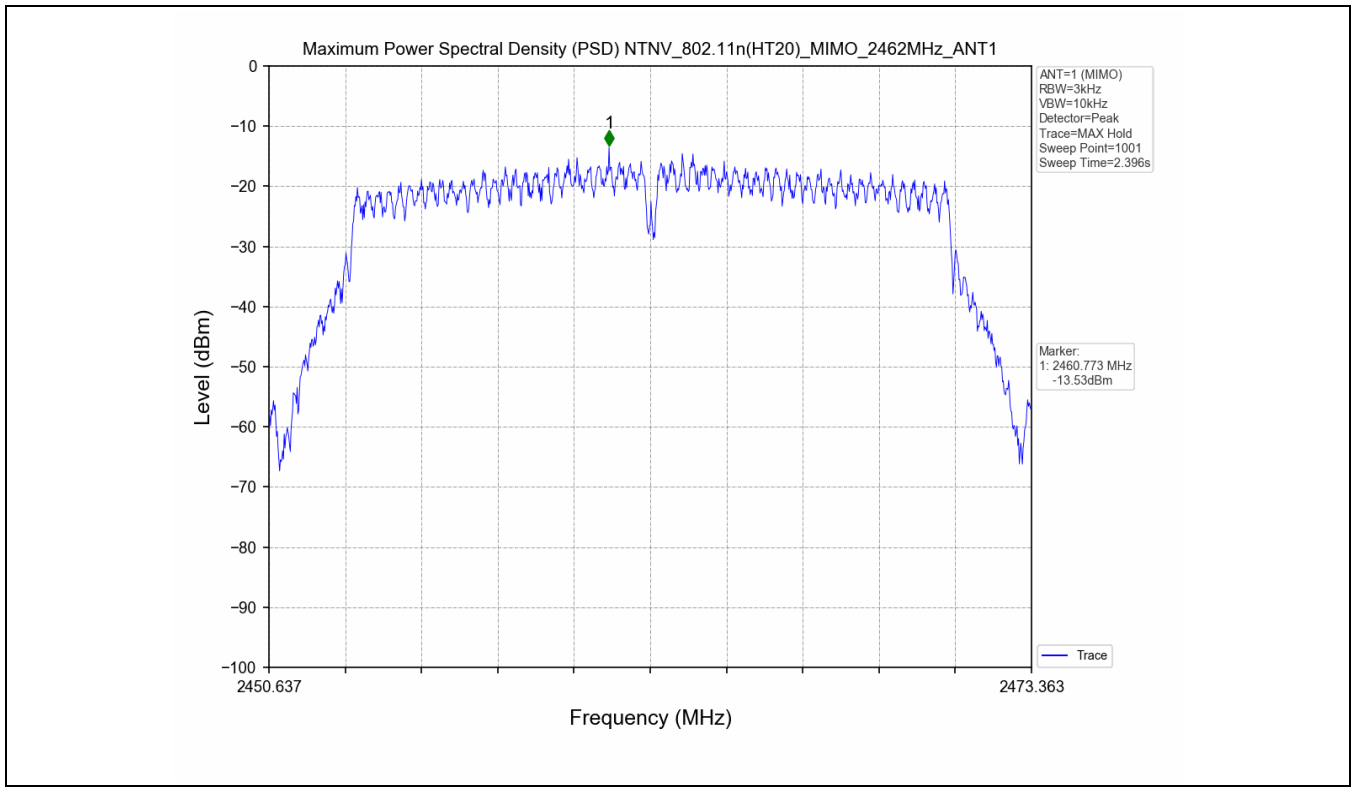


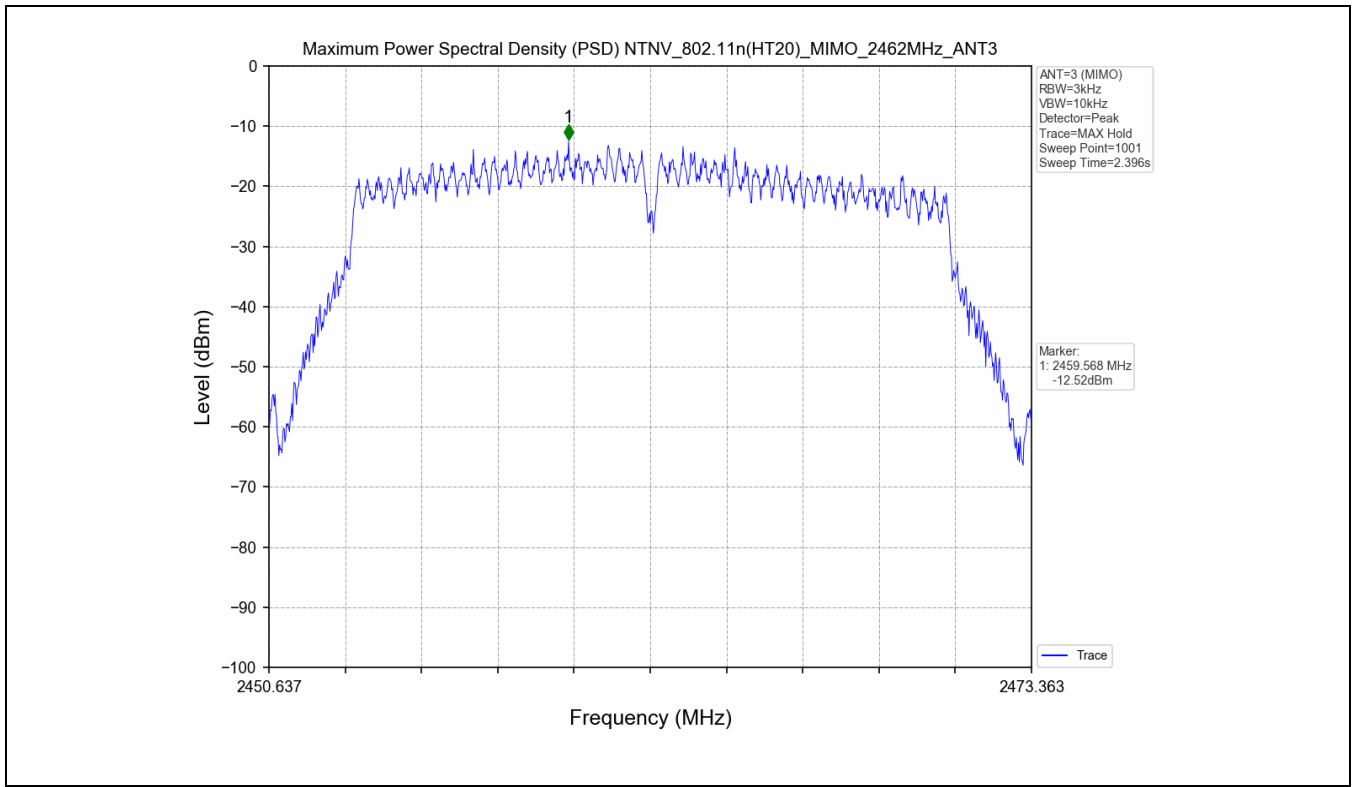


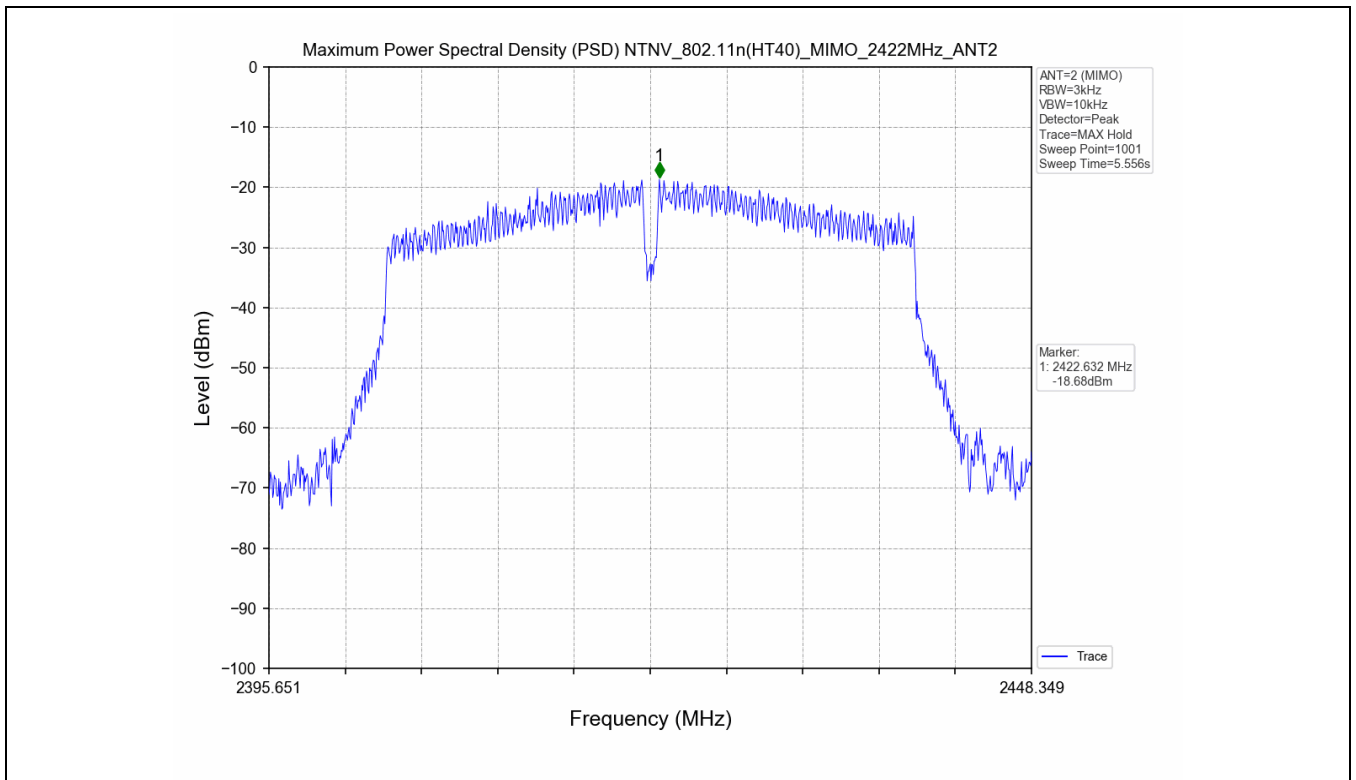
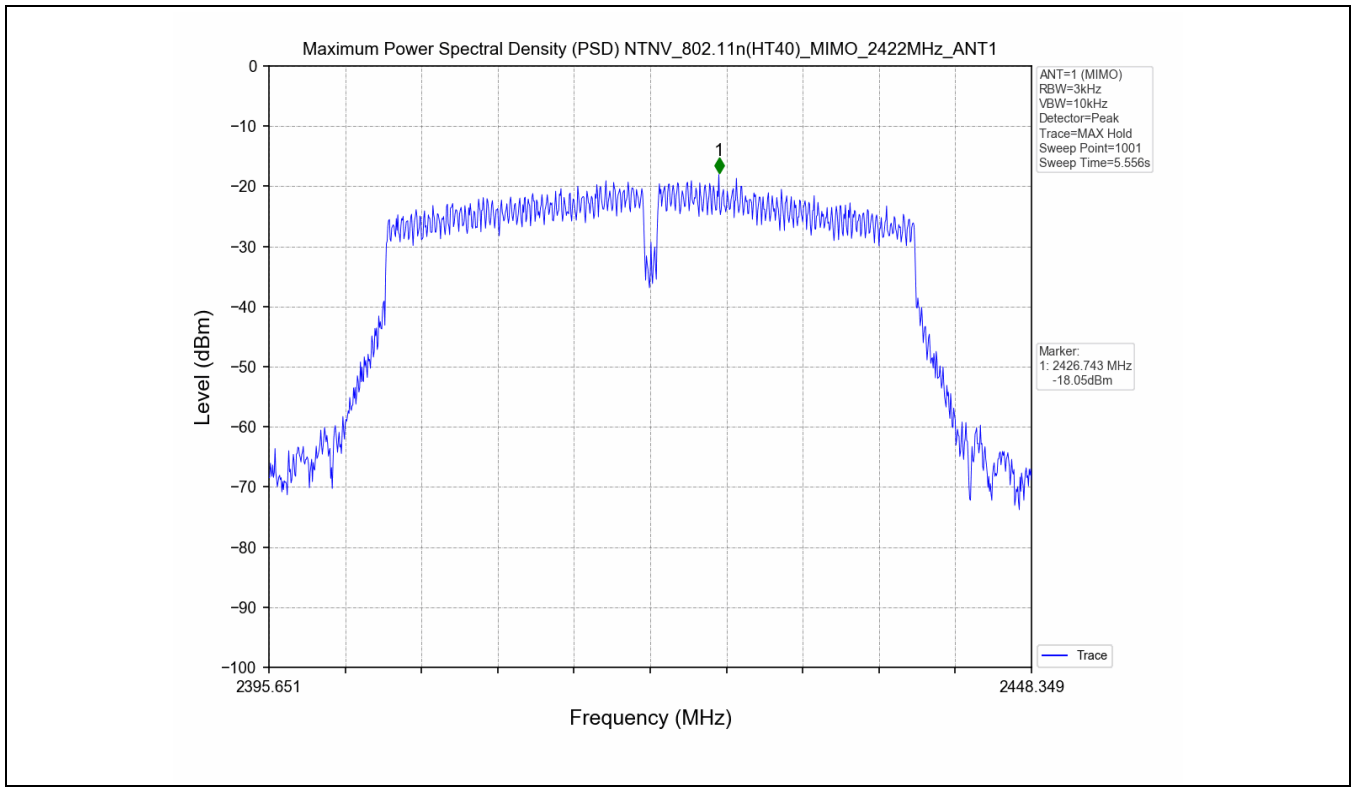


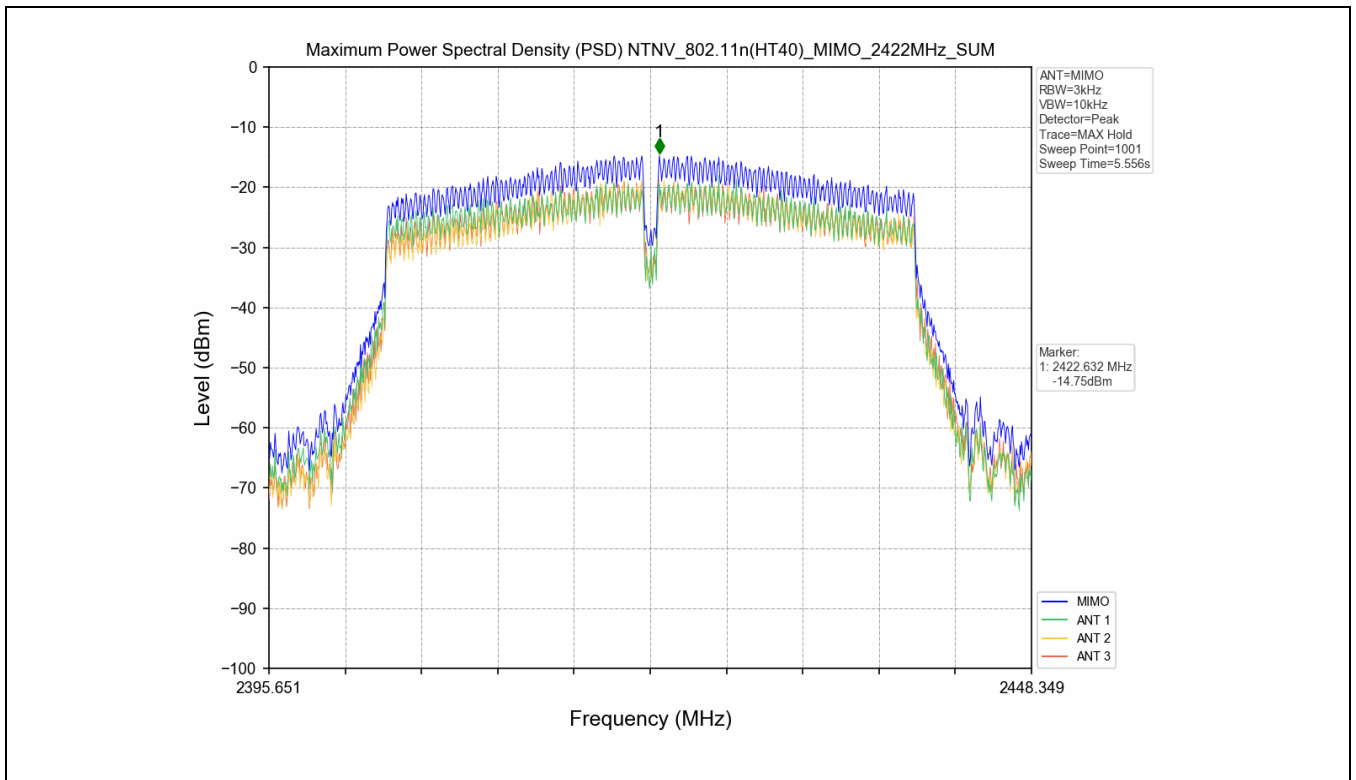
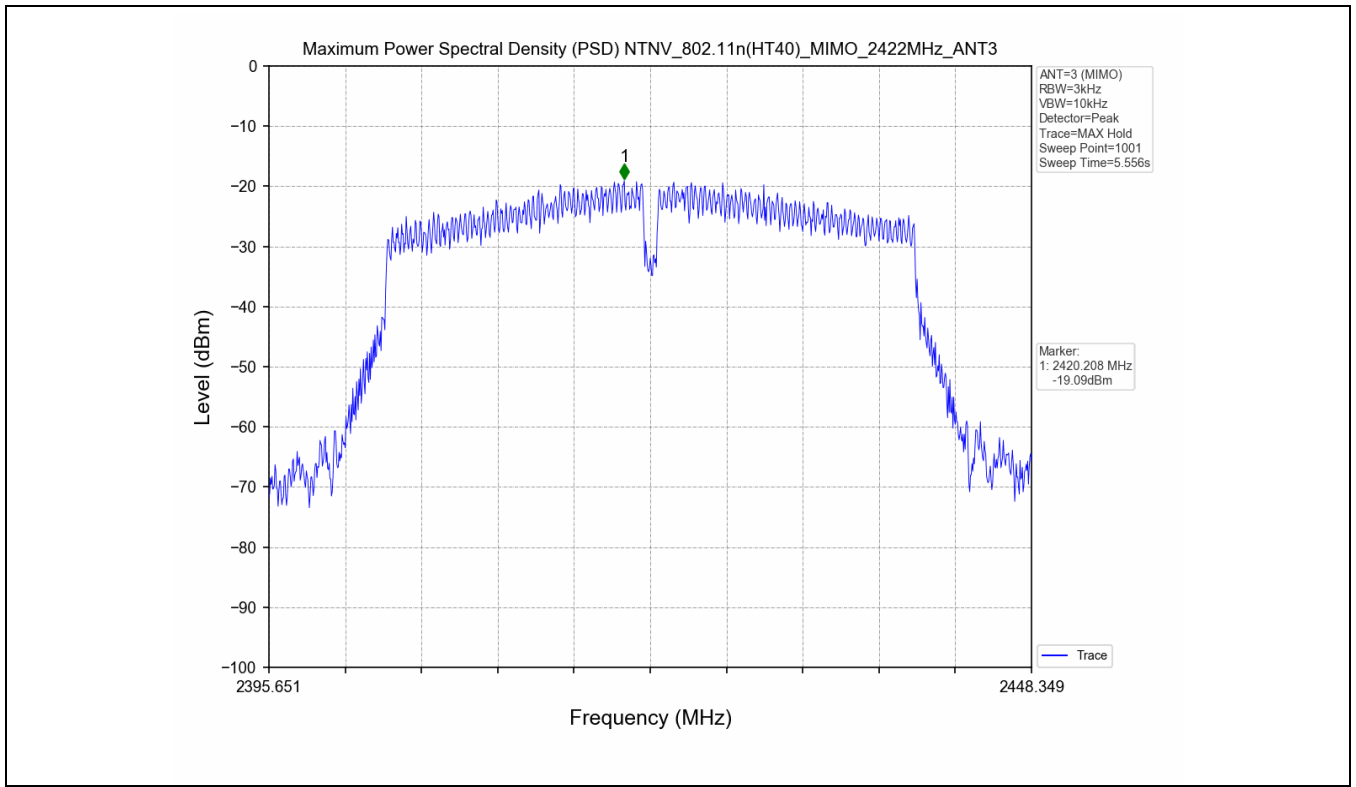


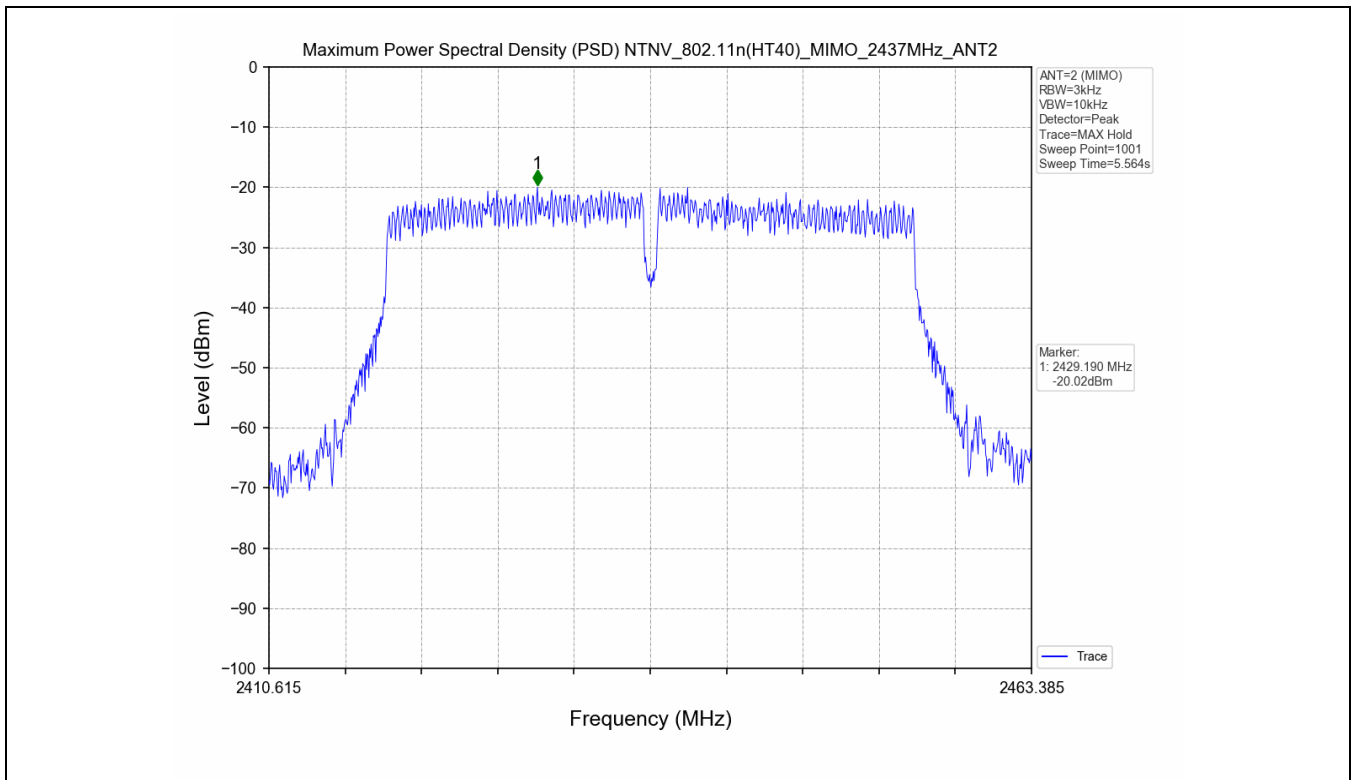
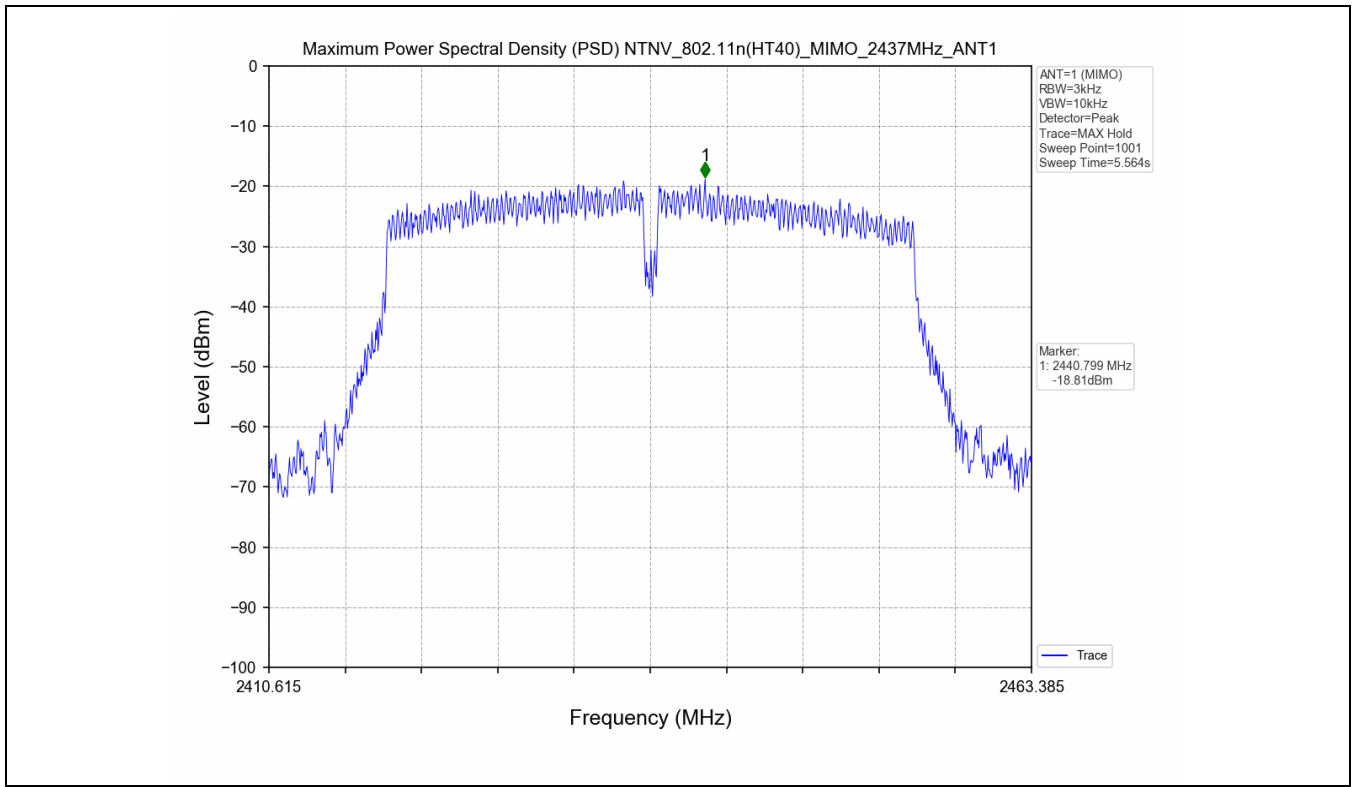


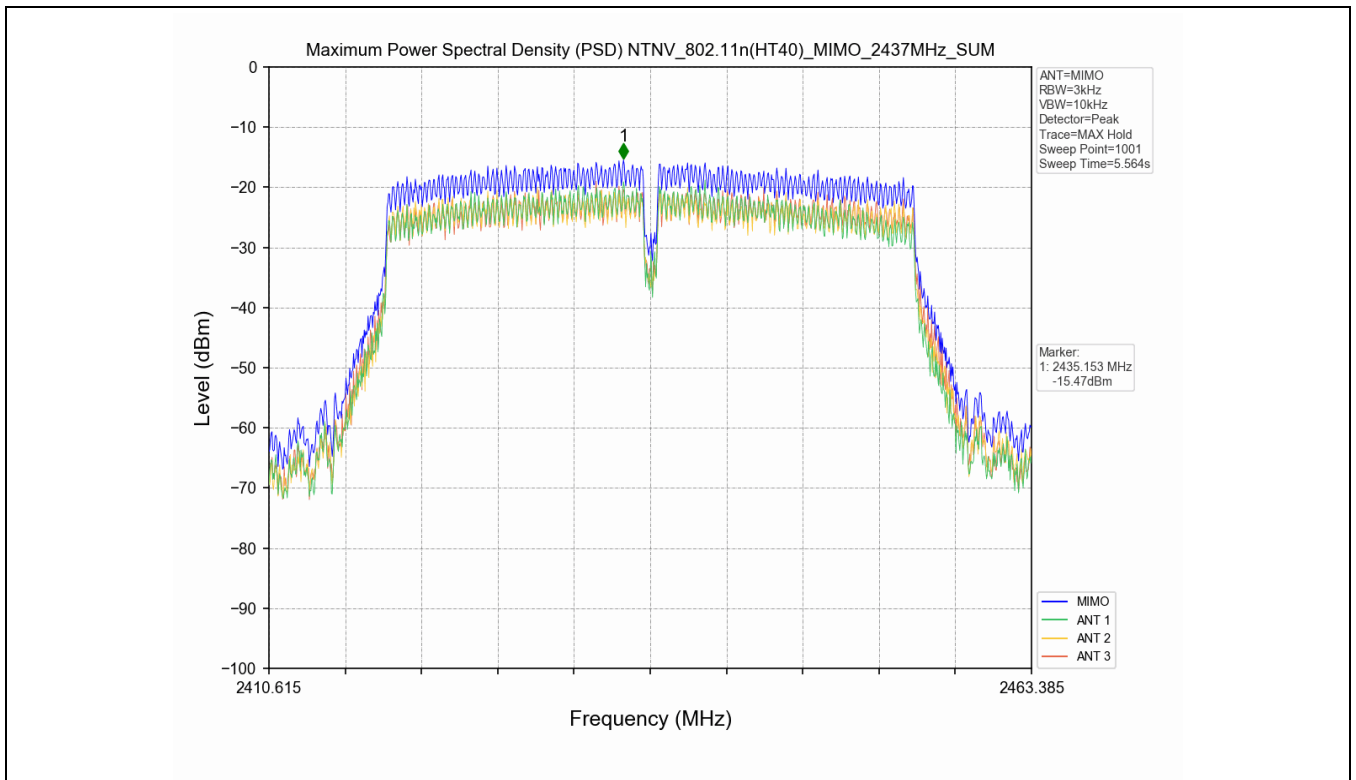
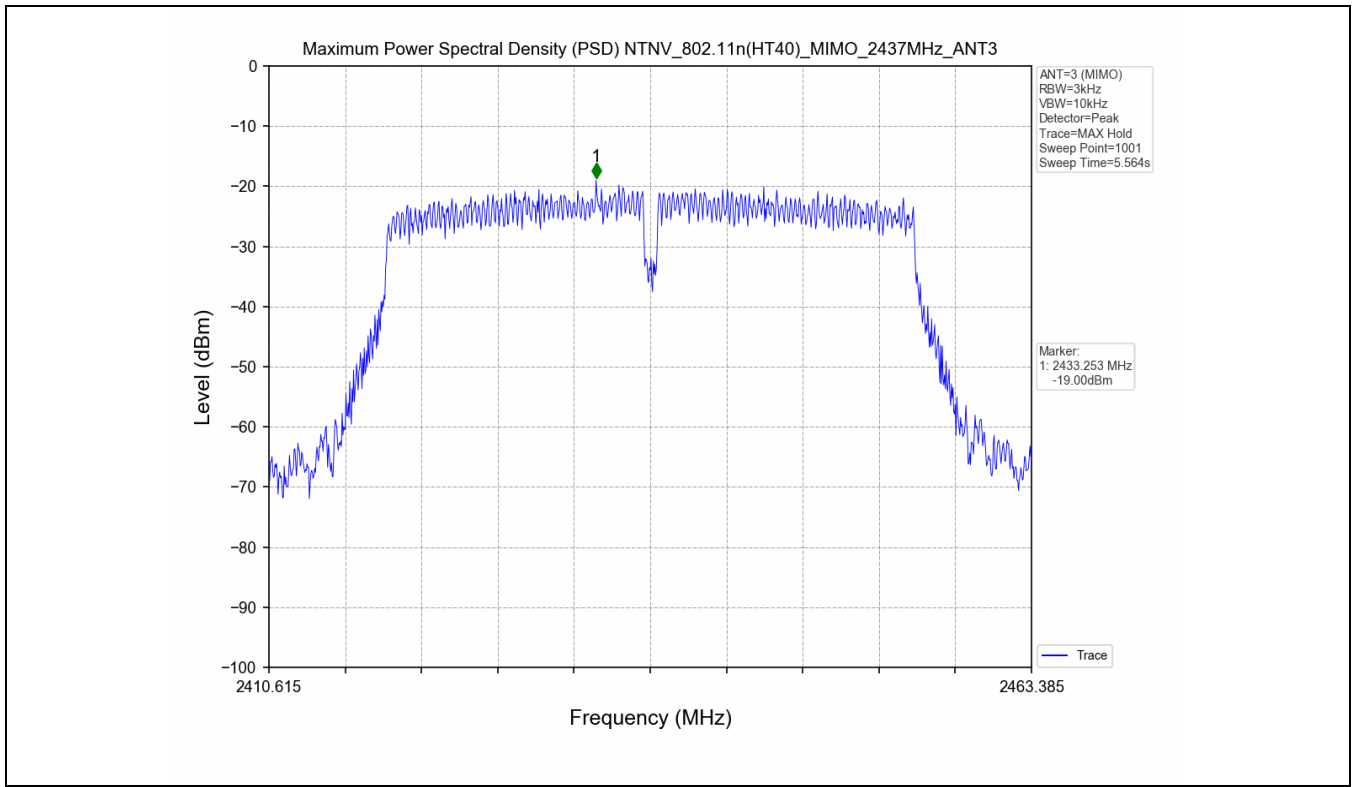


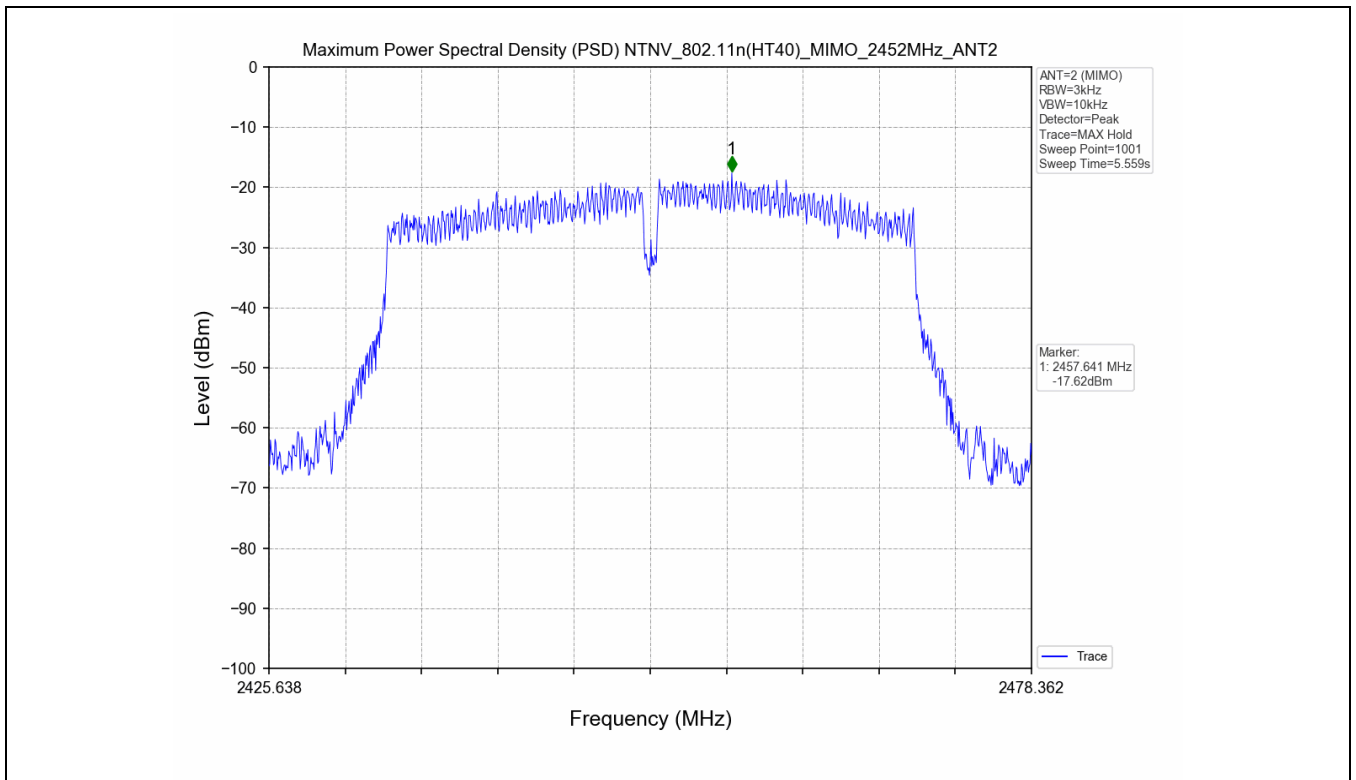
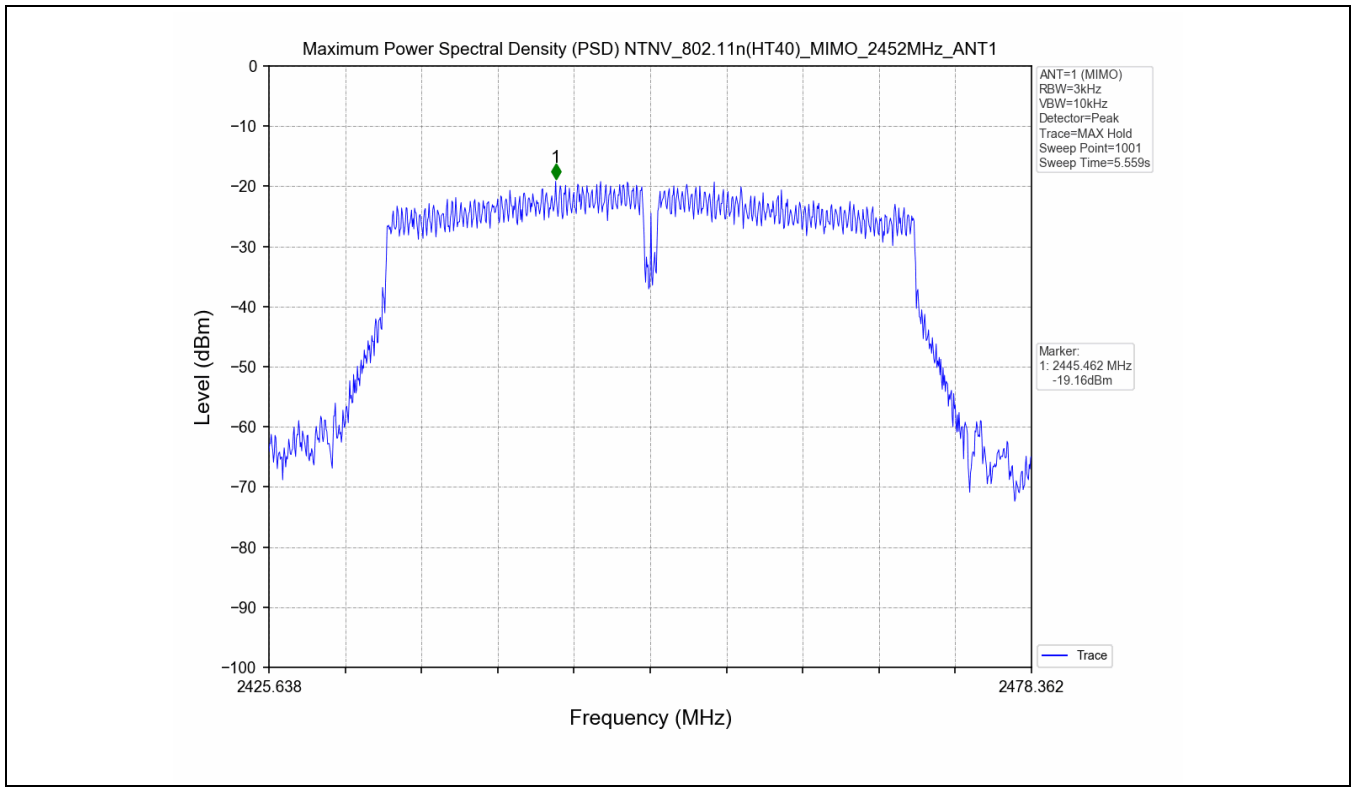


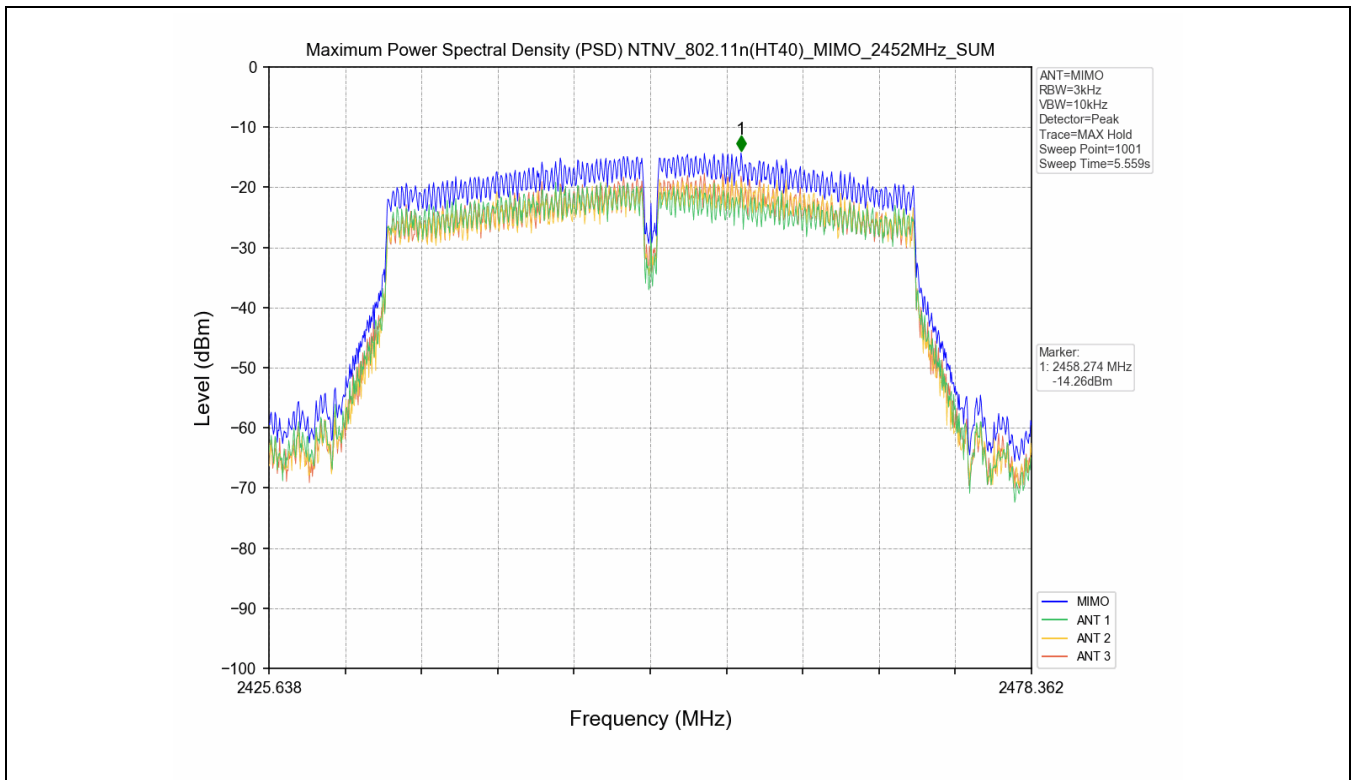
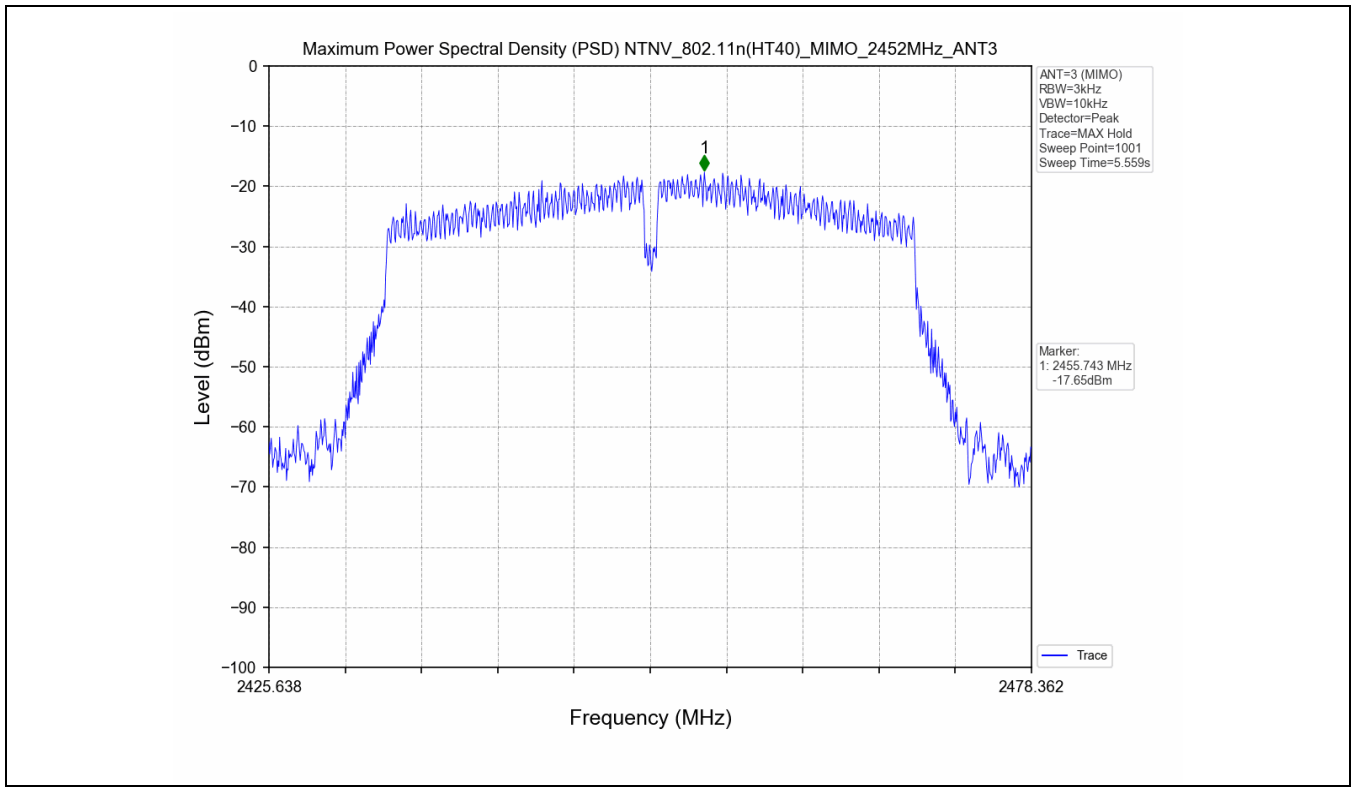












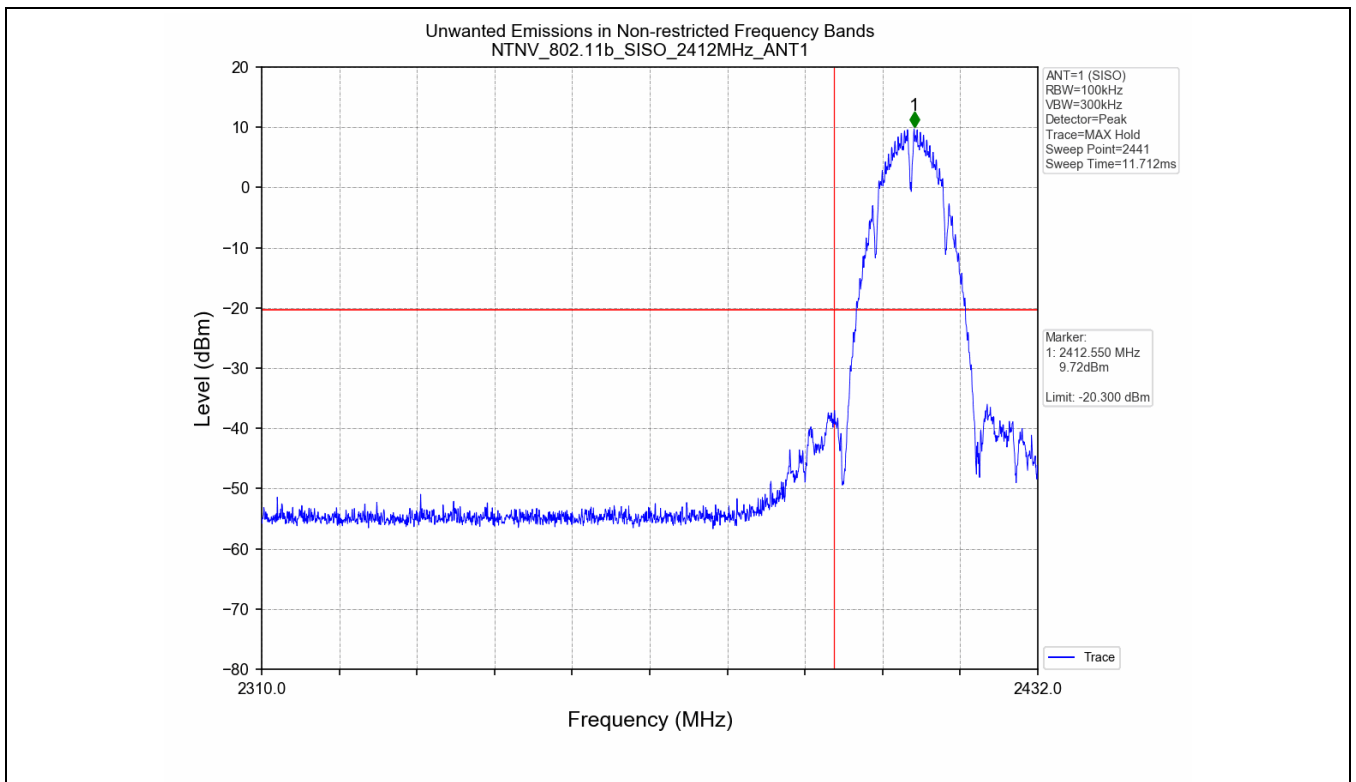
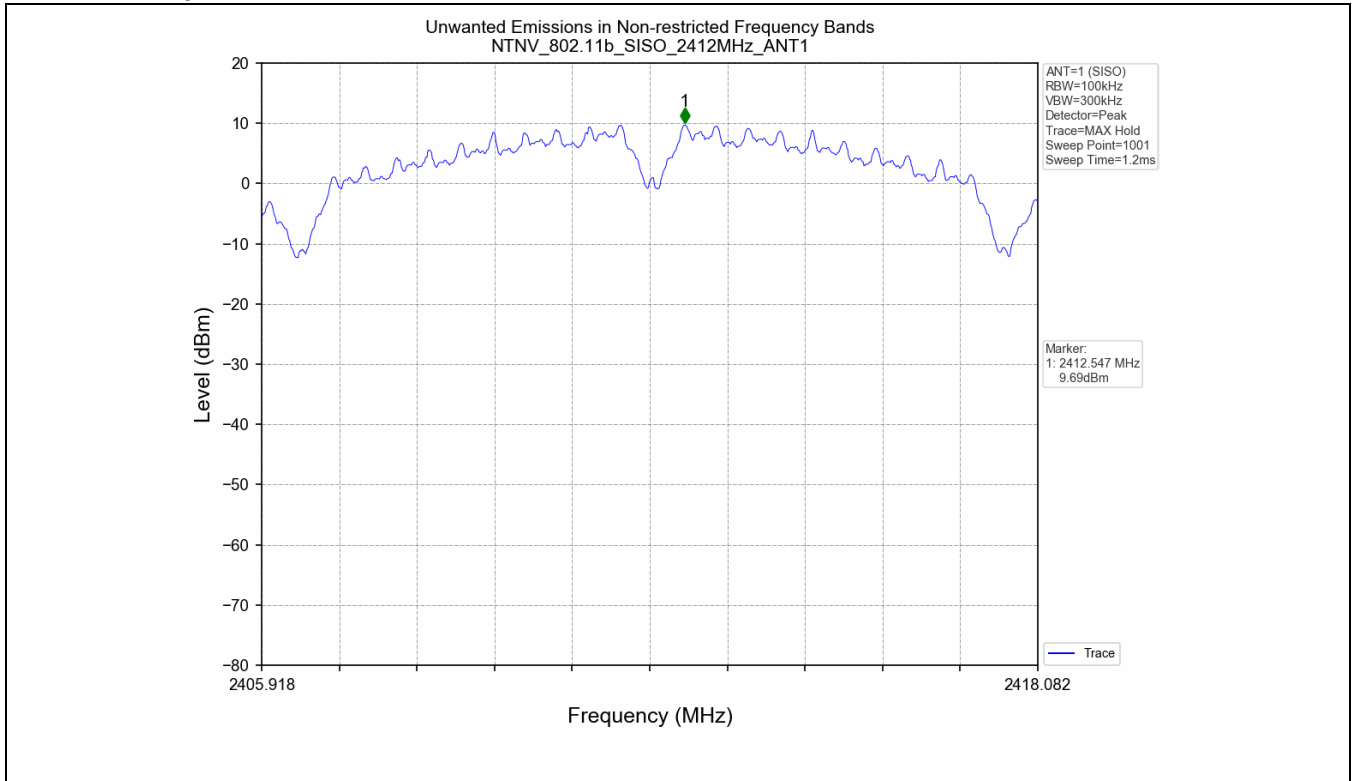
5. Unwanted Emissions in Non-restricted Frequency Bands

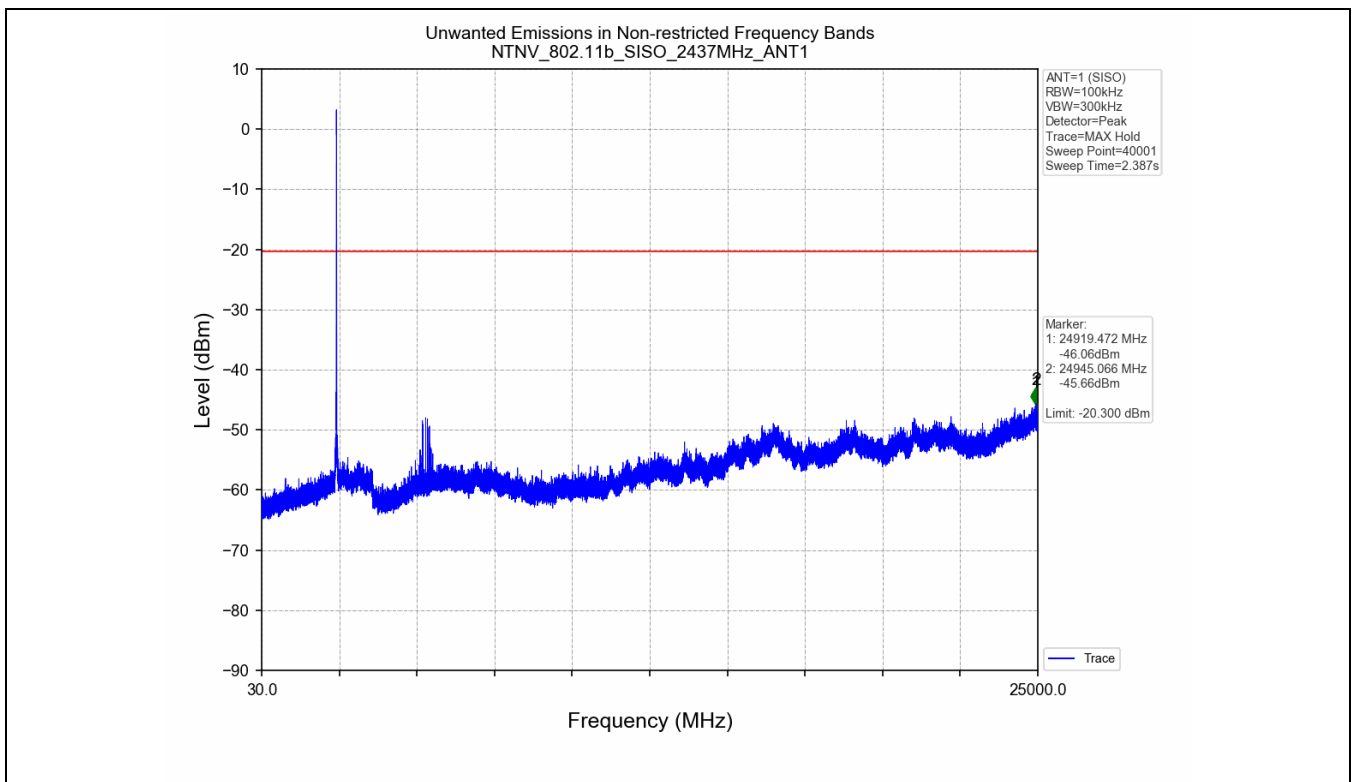
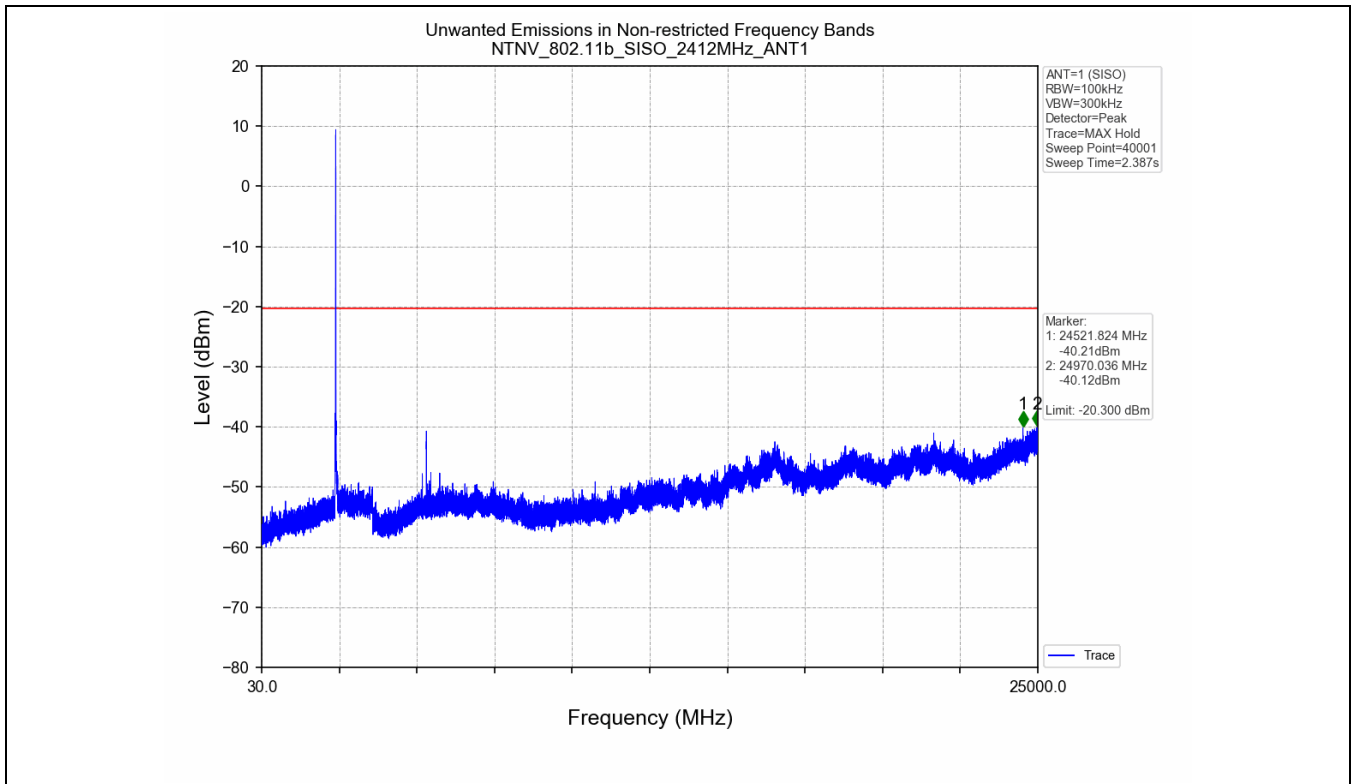
5.1 Test Result

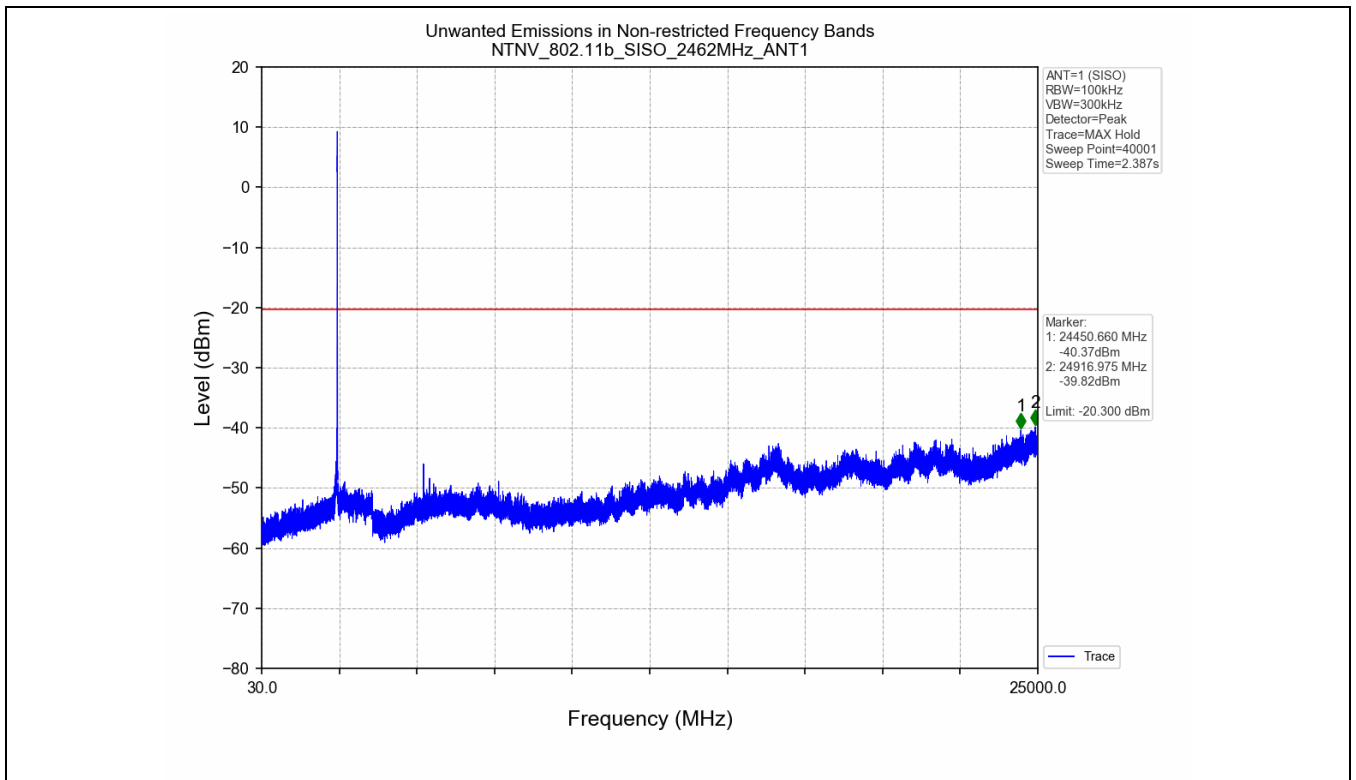
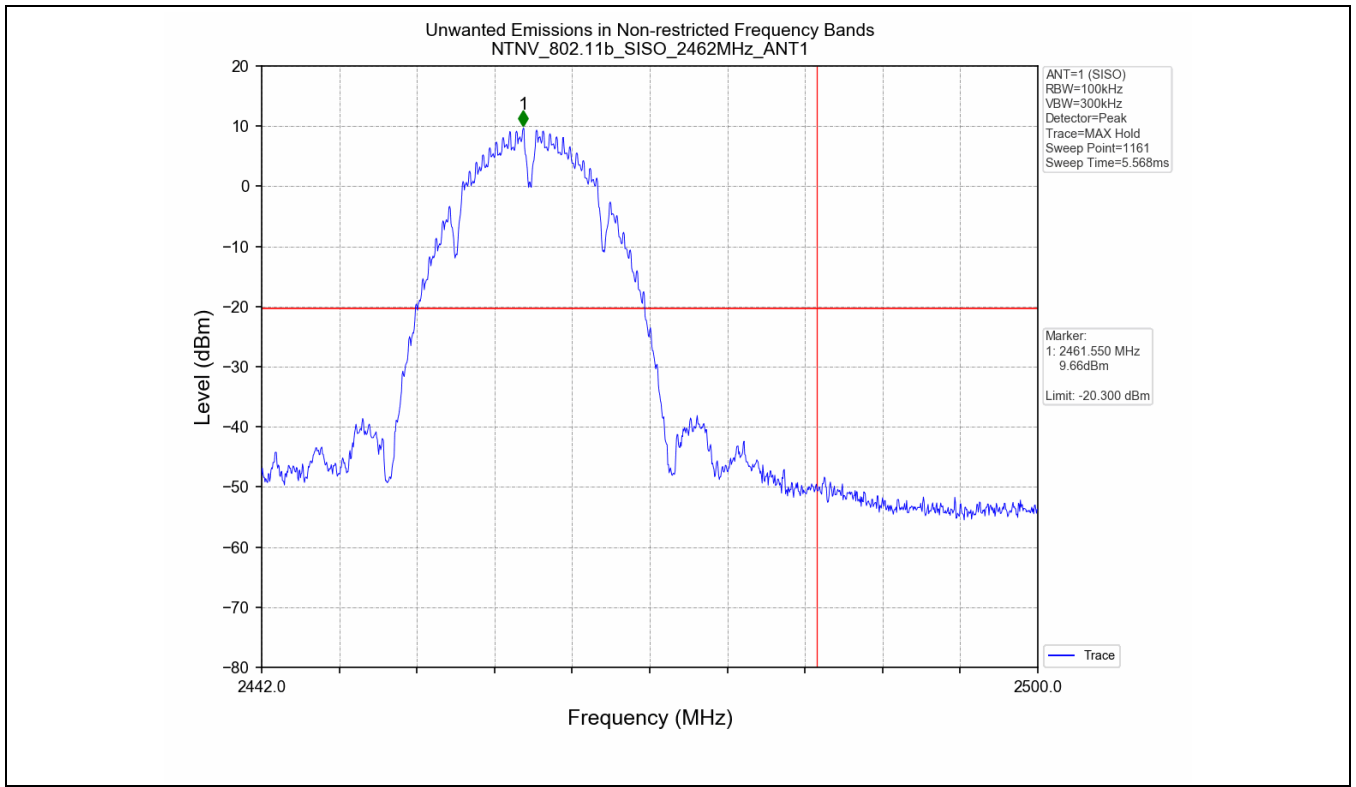
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-26.24	PASS
	2437	SISO	1	Refer to test graph	-26.24	PASS
	2462	SISO	1	Refer to test graph	-26.24	PASS
802.11g	2412	SISO	1	Refer to test graph	-28.92	PASS
	2437	SISO	1	Refer to test graph	-28.92	PASS
	2462	SISO	1	Refer to test graph	-28.92	PASS
802.11n(HT20)	2412	MIMO	MIMO	Refer to test graph	-28.52	PASS
	2437	MIMO	MIMO	Refer to test graph	-28.52	PASS
	2462	MIMO	MIMO	Refer to test graph	-28.52	PASS
802.11n(HT40)	2422	MIMO	MIMO	Refer to test graph	-32.26	PASS
	2437	MIMO	MIMO	Refer to test graph	-32.26	PASS
	2452	MIMO	MIMO	Refer to test graph	-32.26	PASS

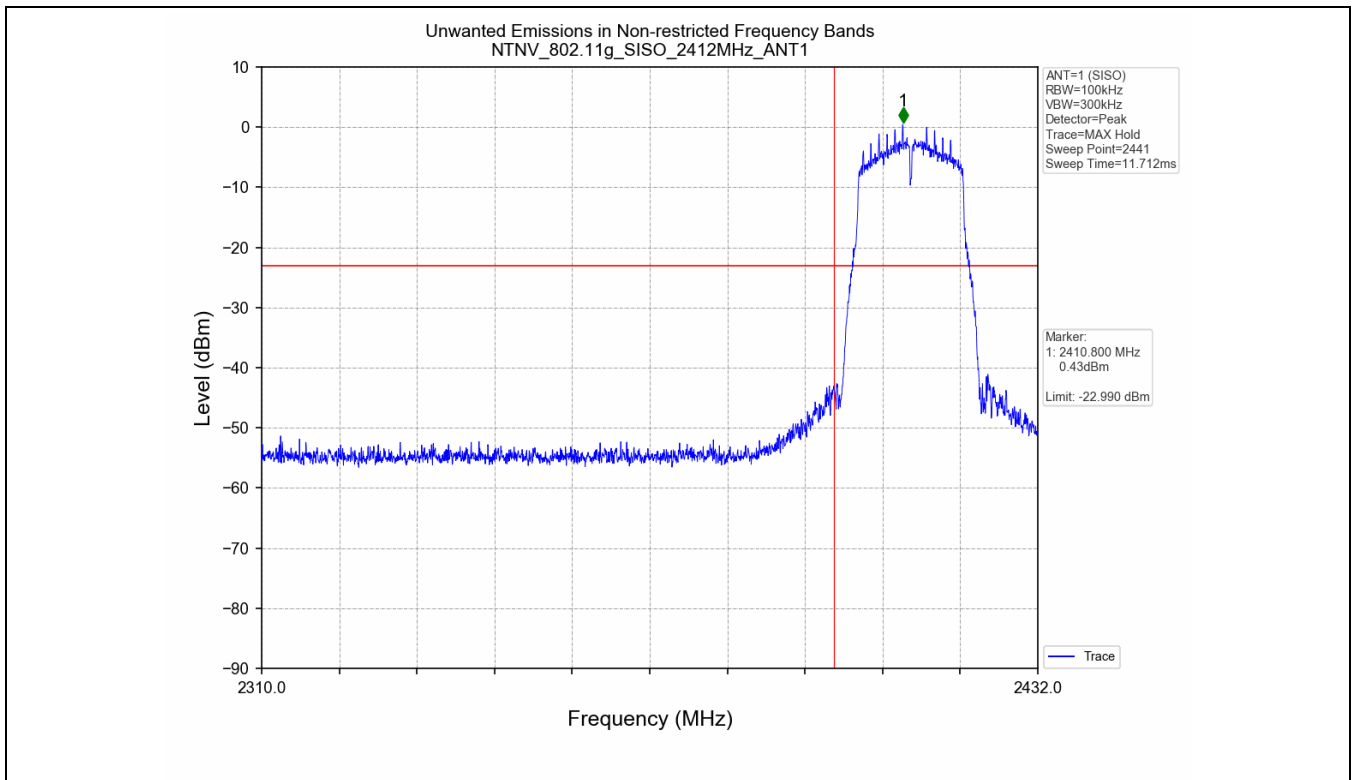
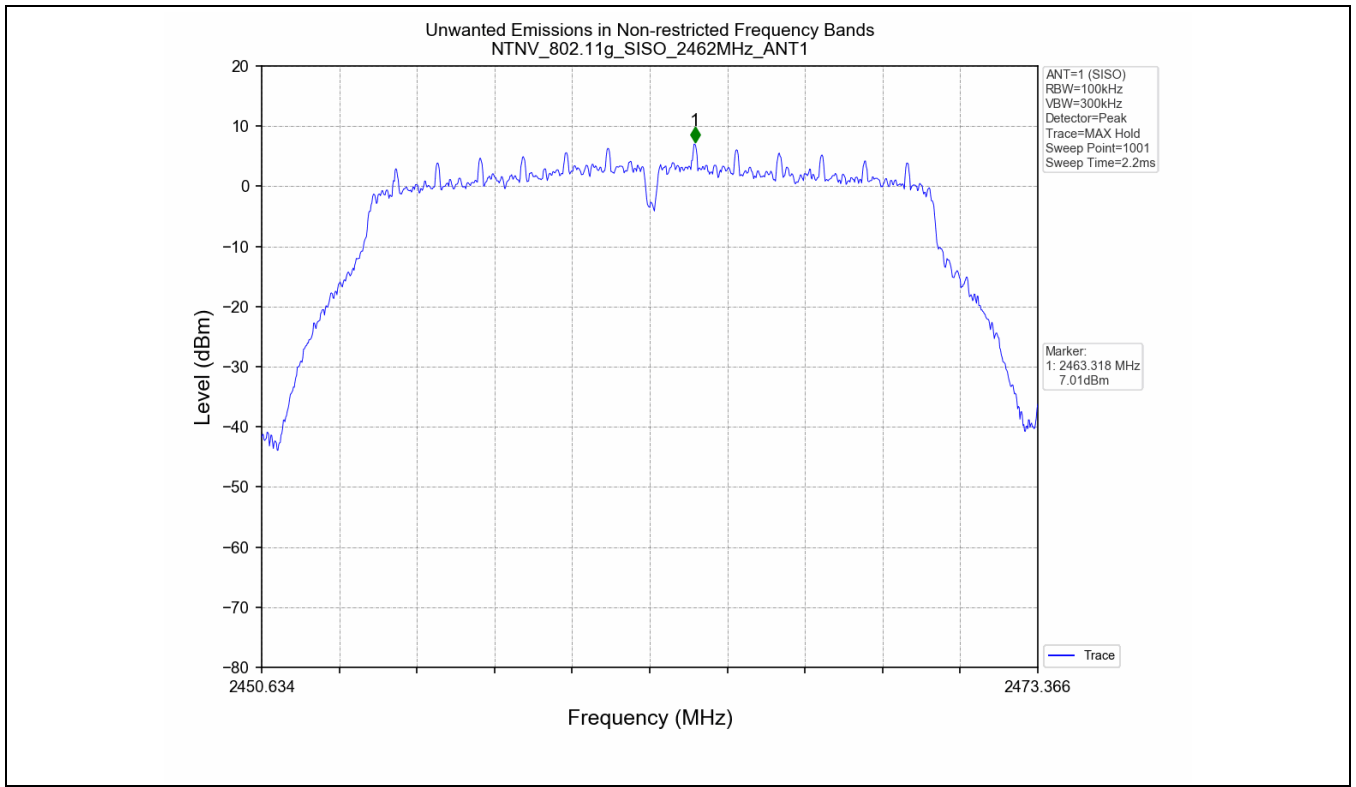


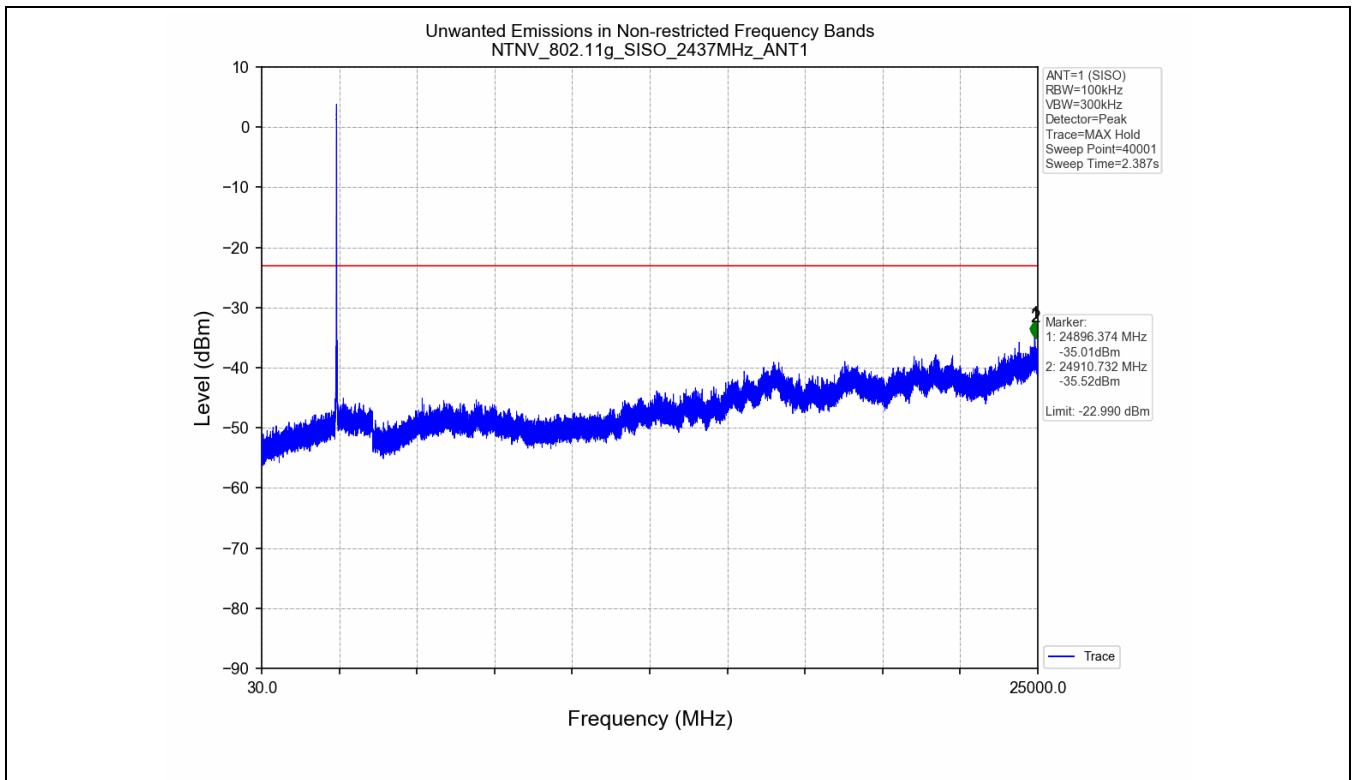
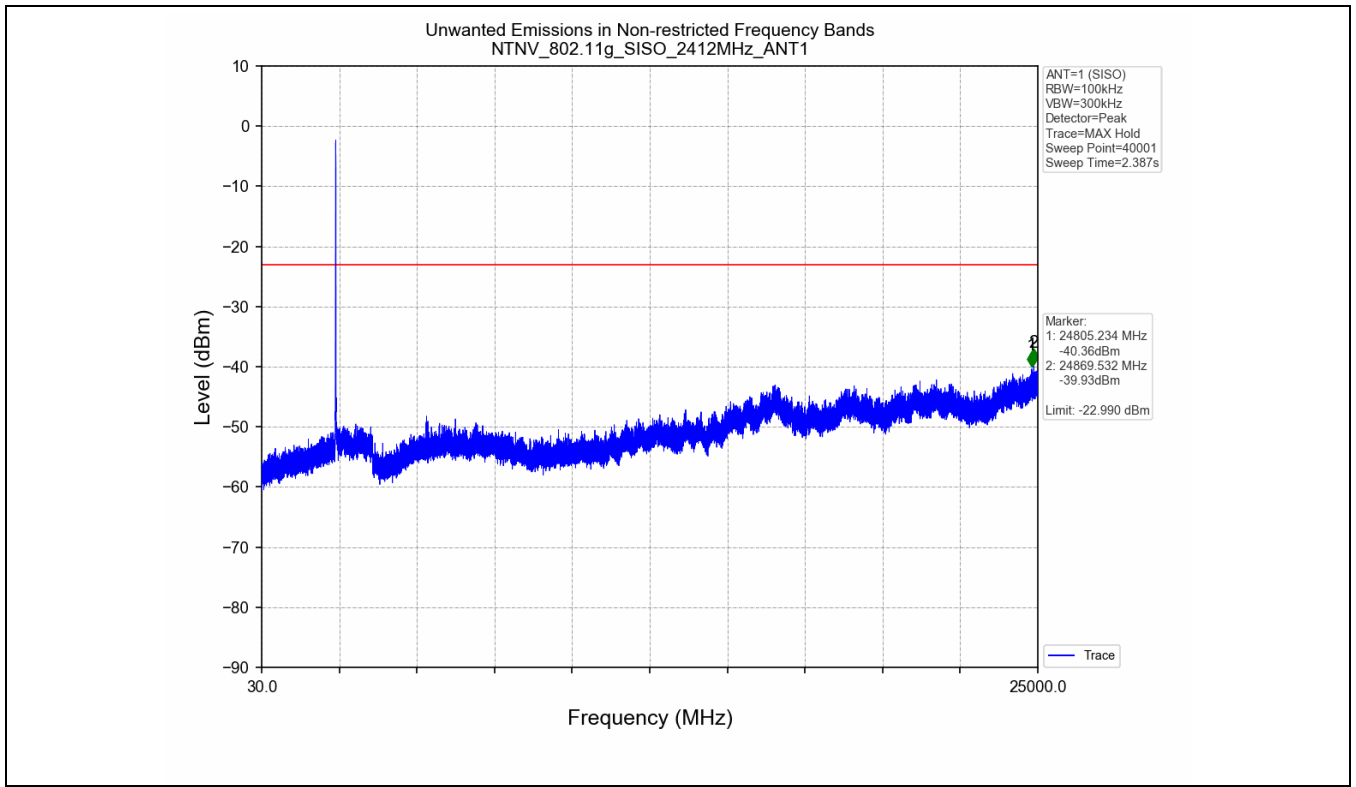
5.2 Test Graph

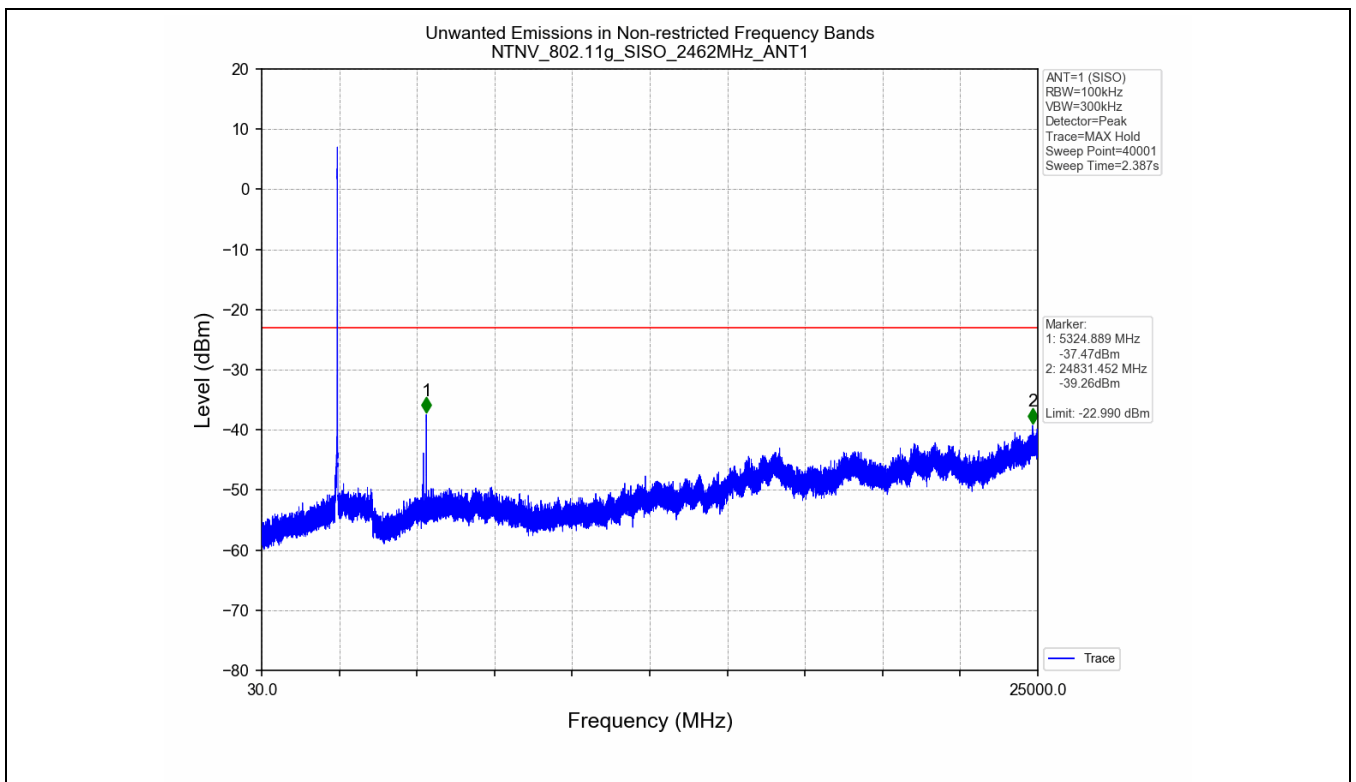
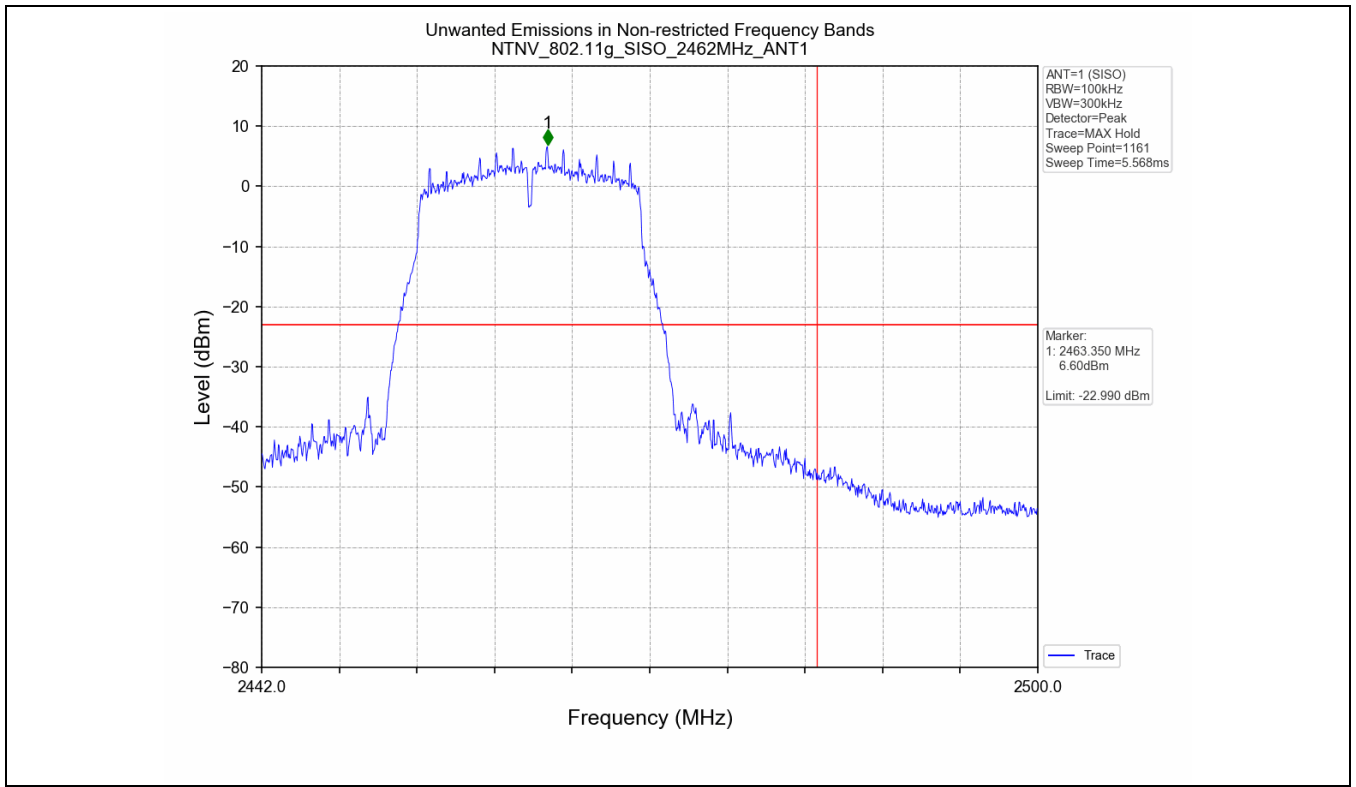


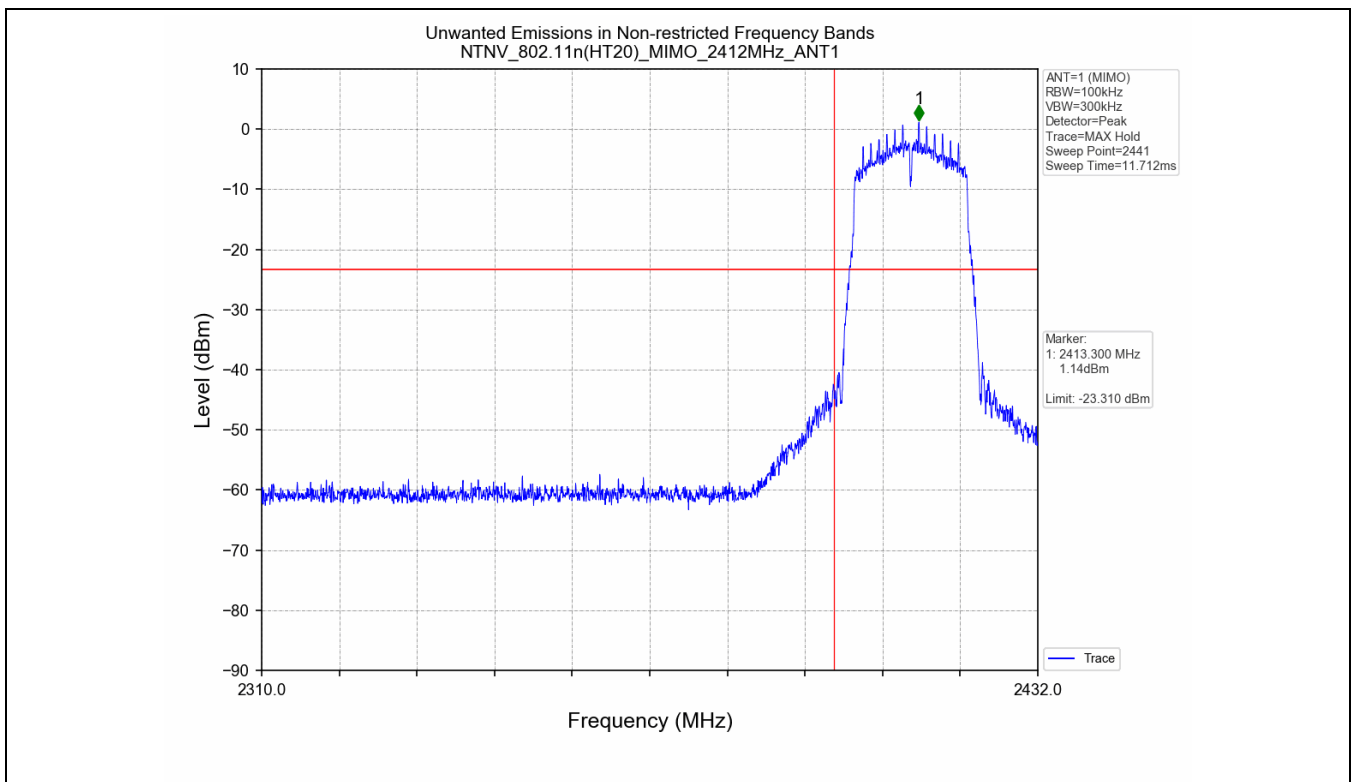
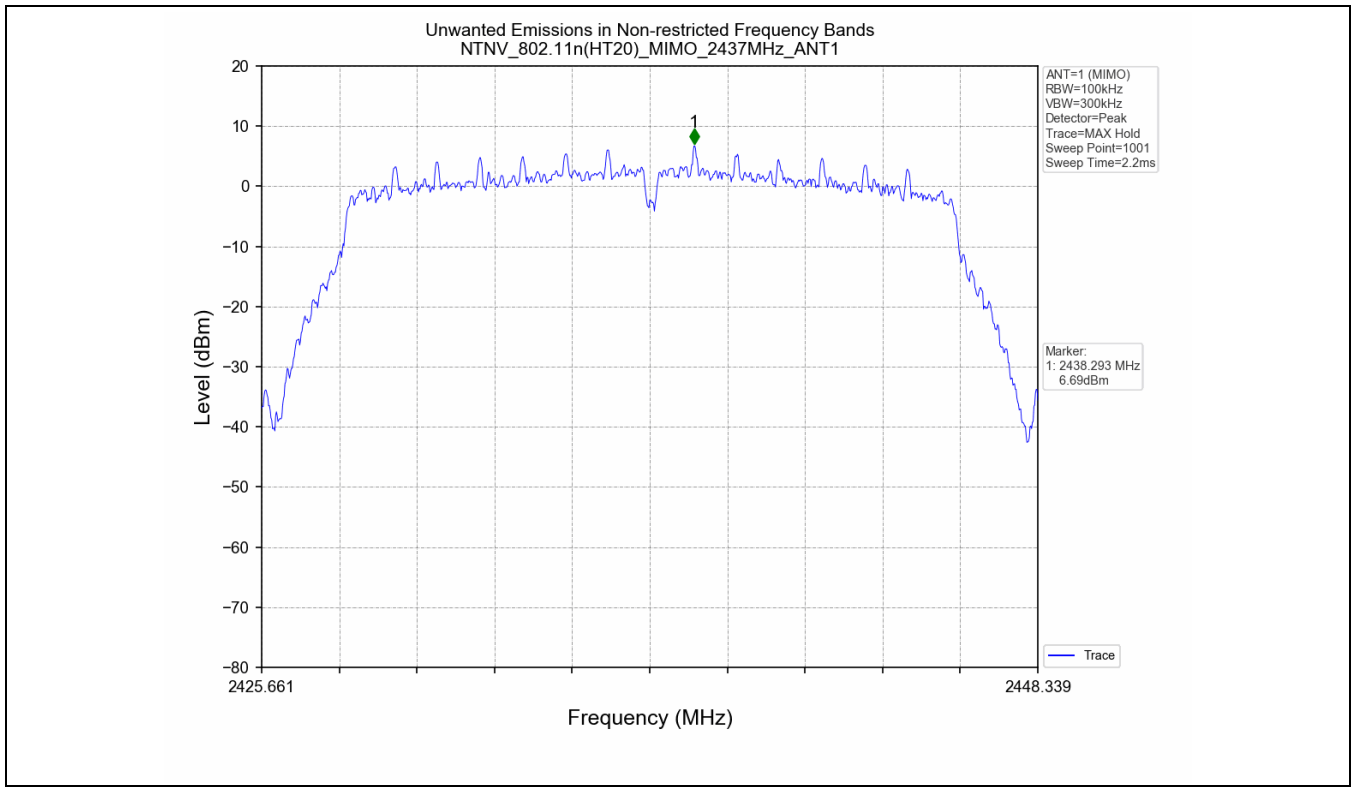


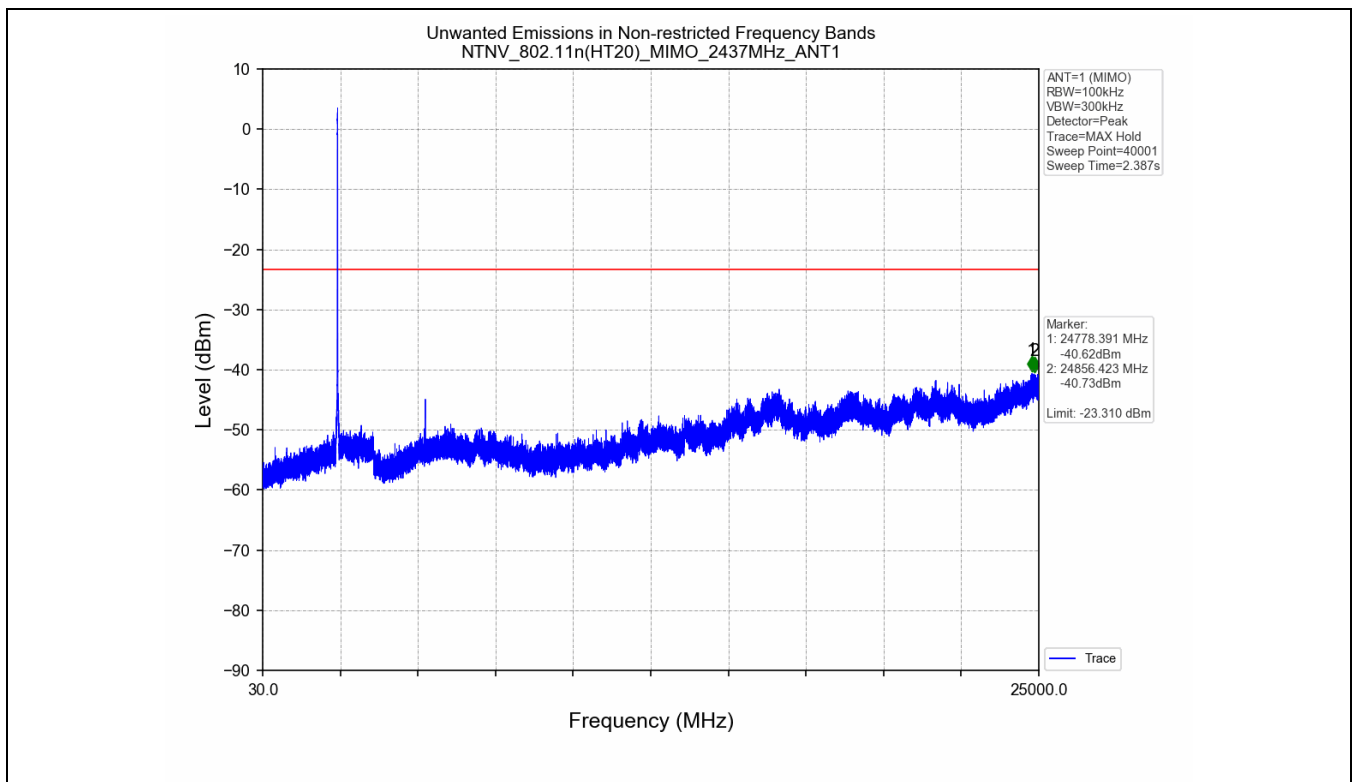
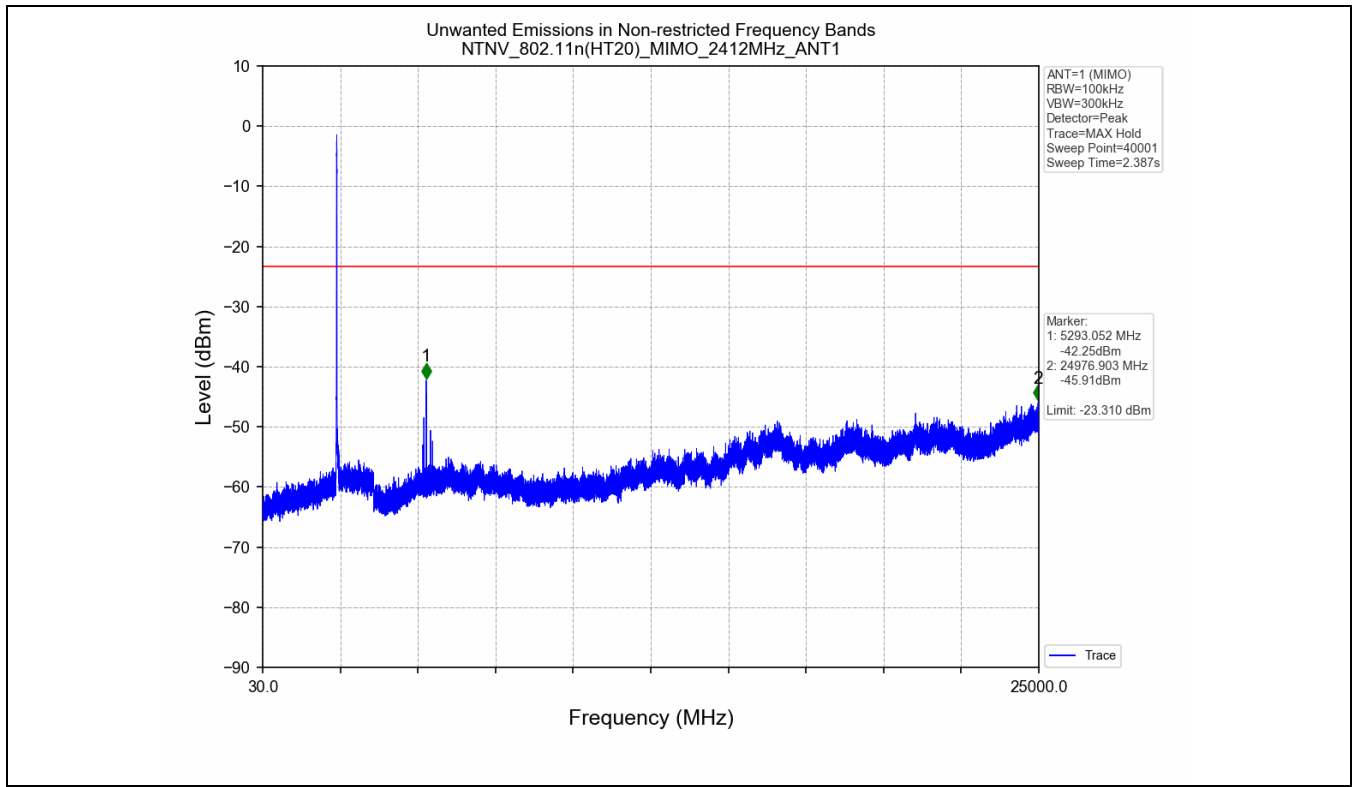


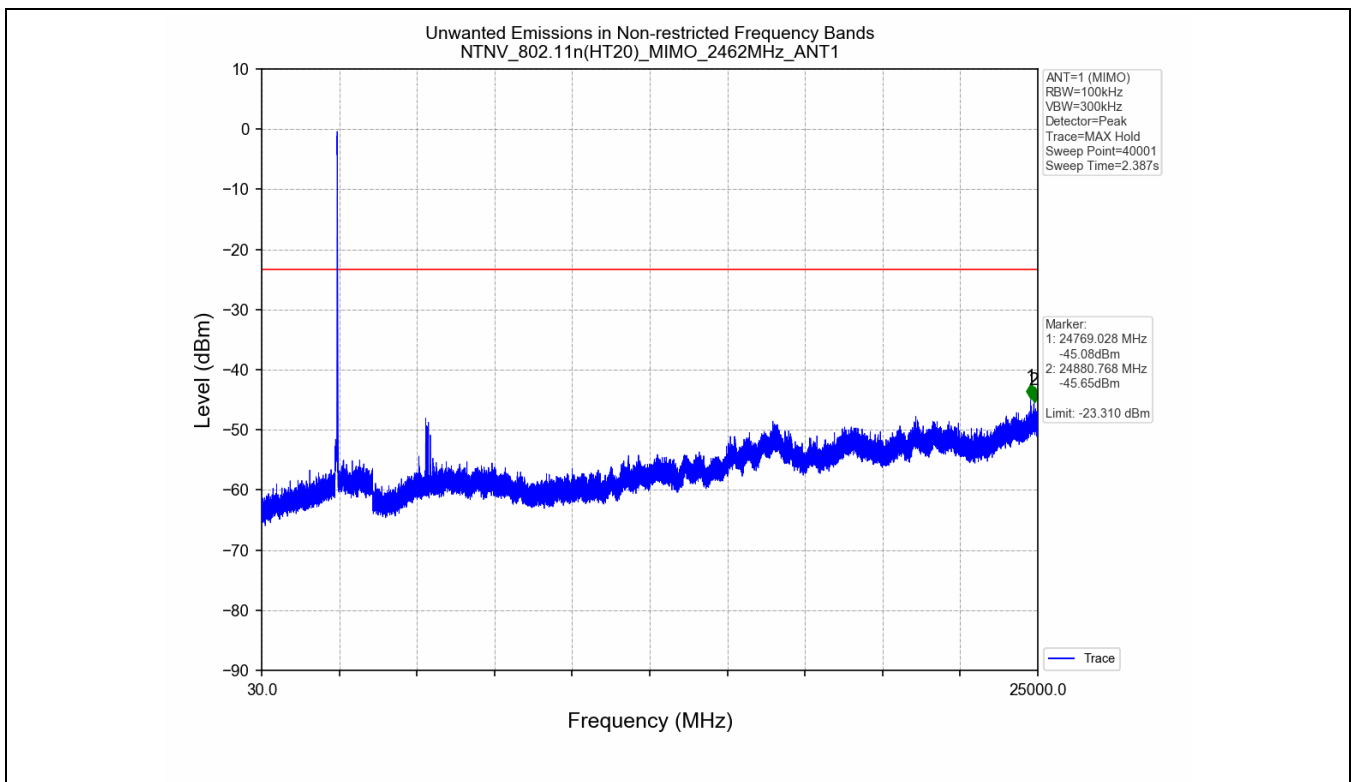
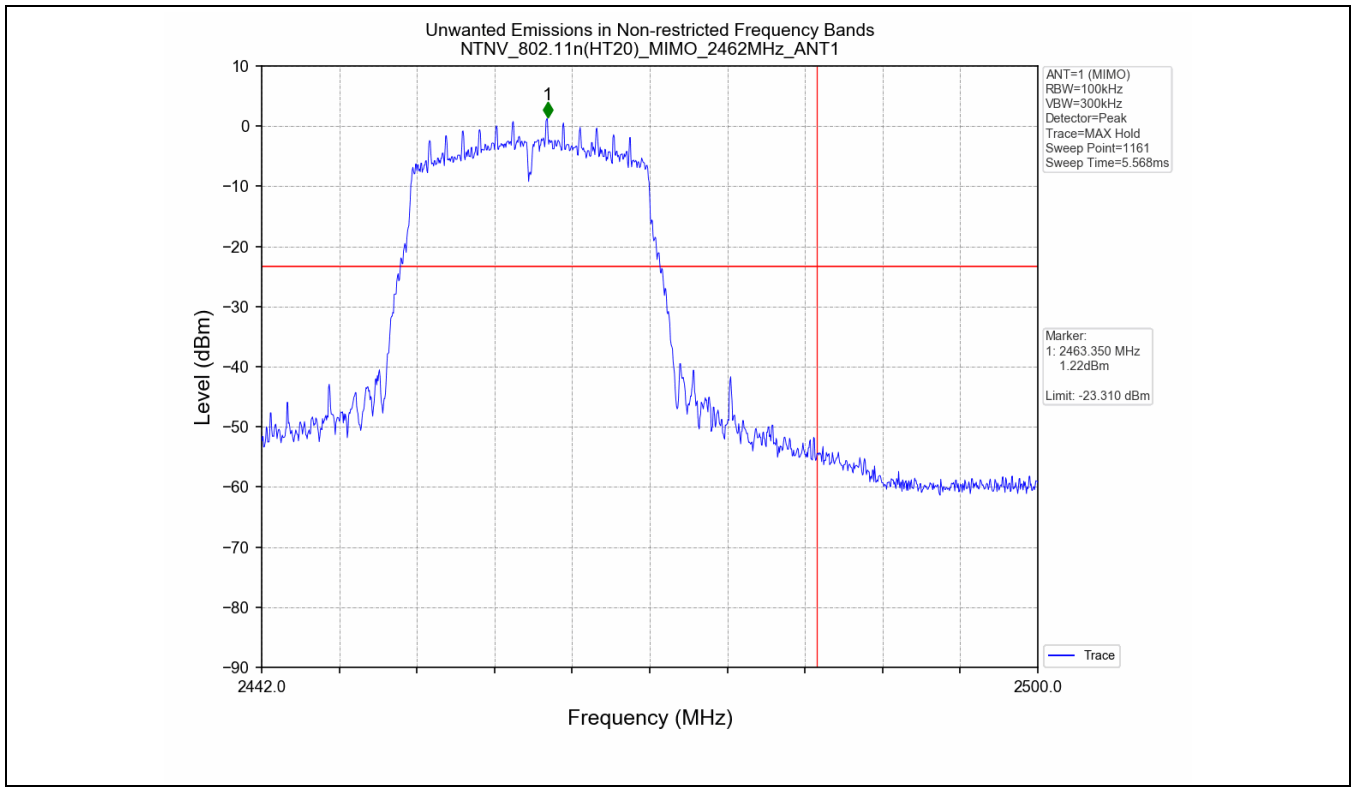


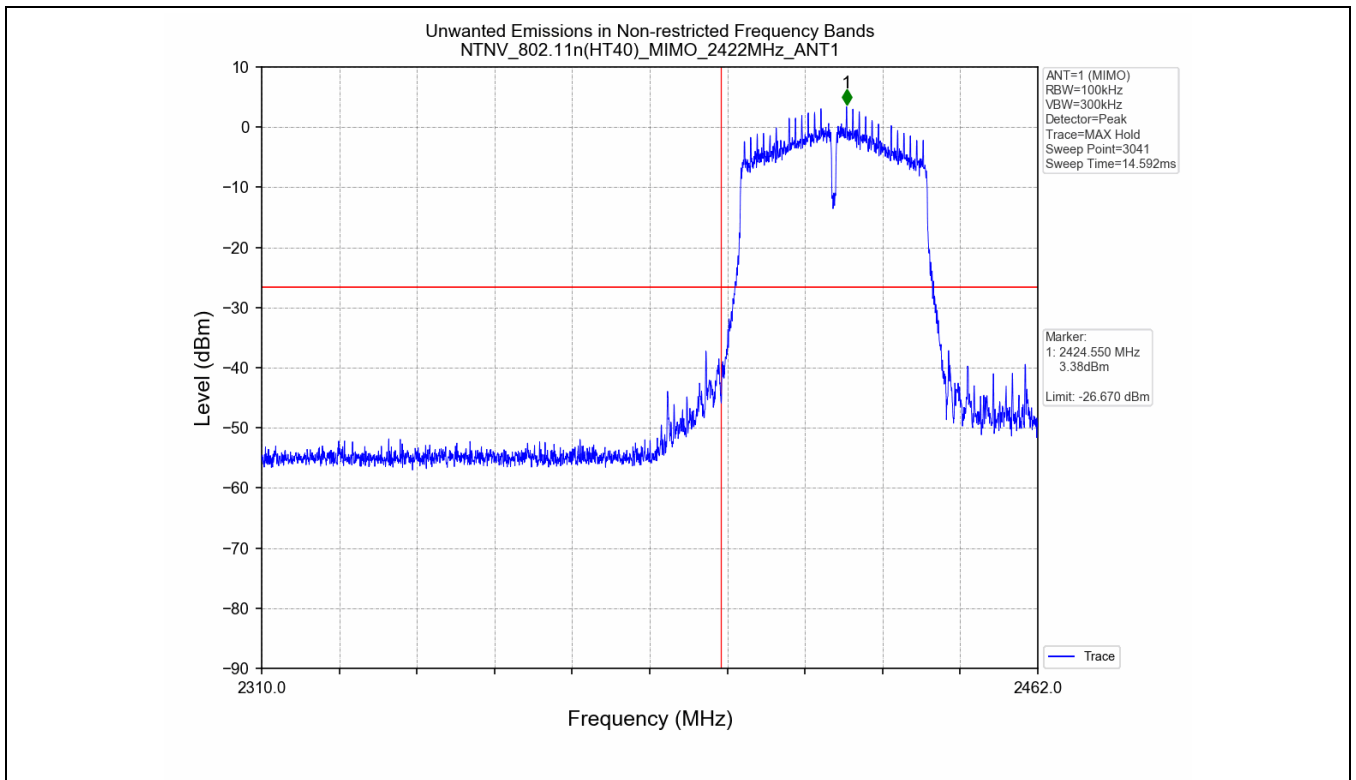
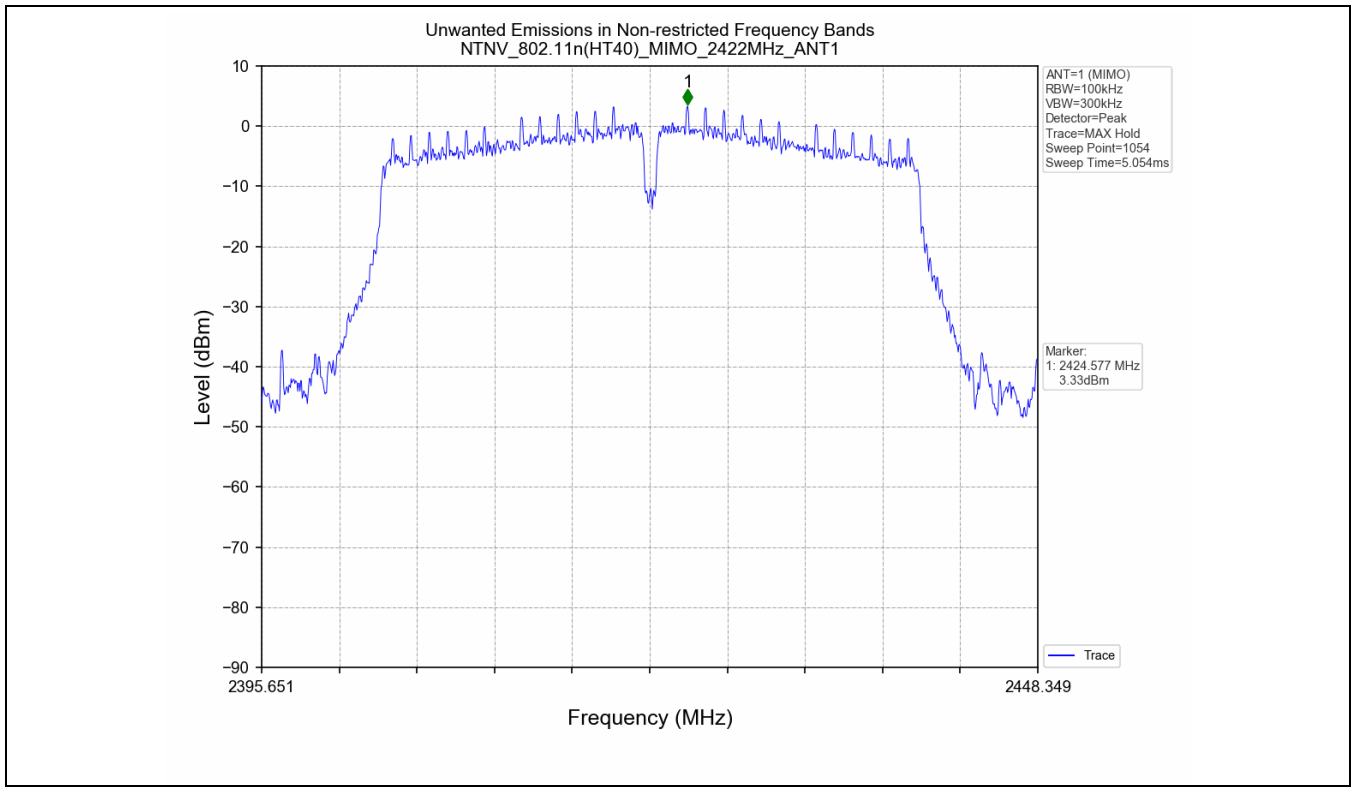


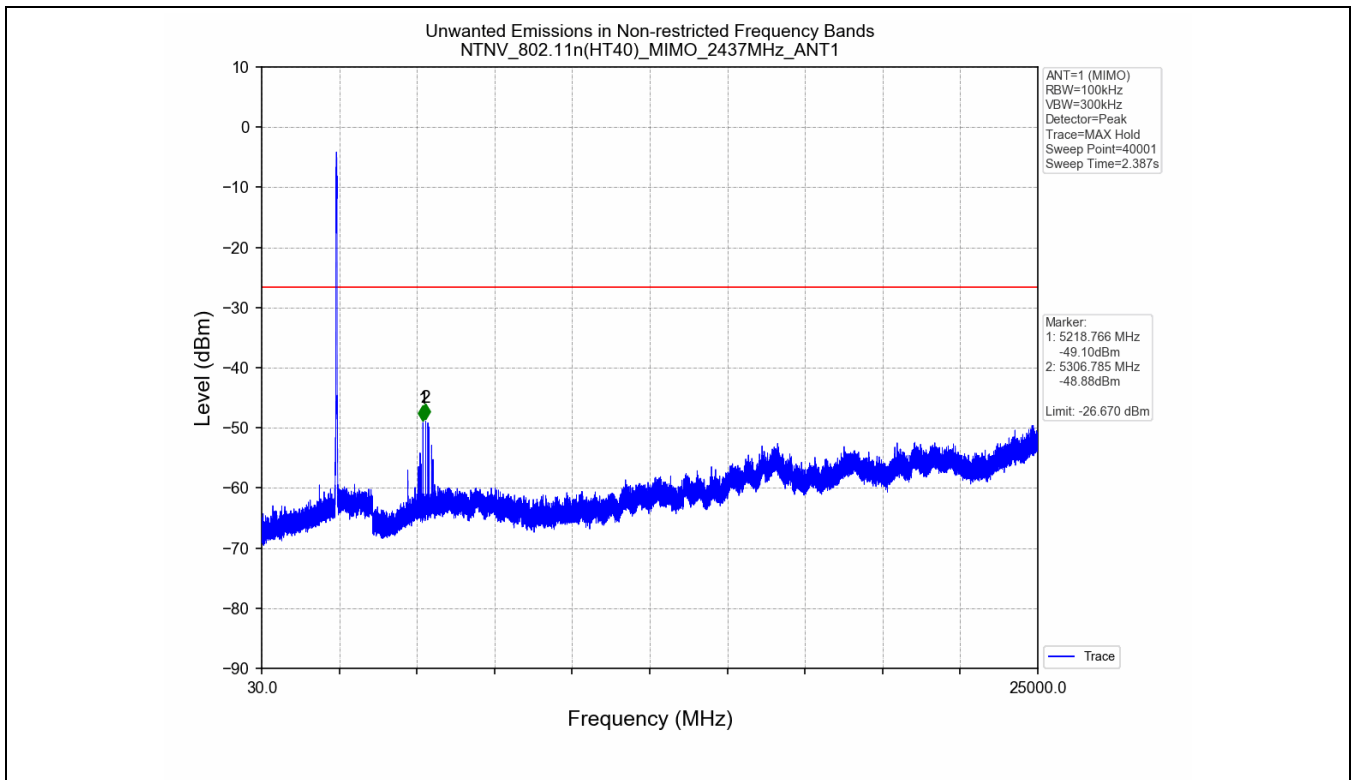
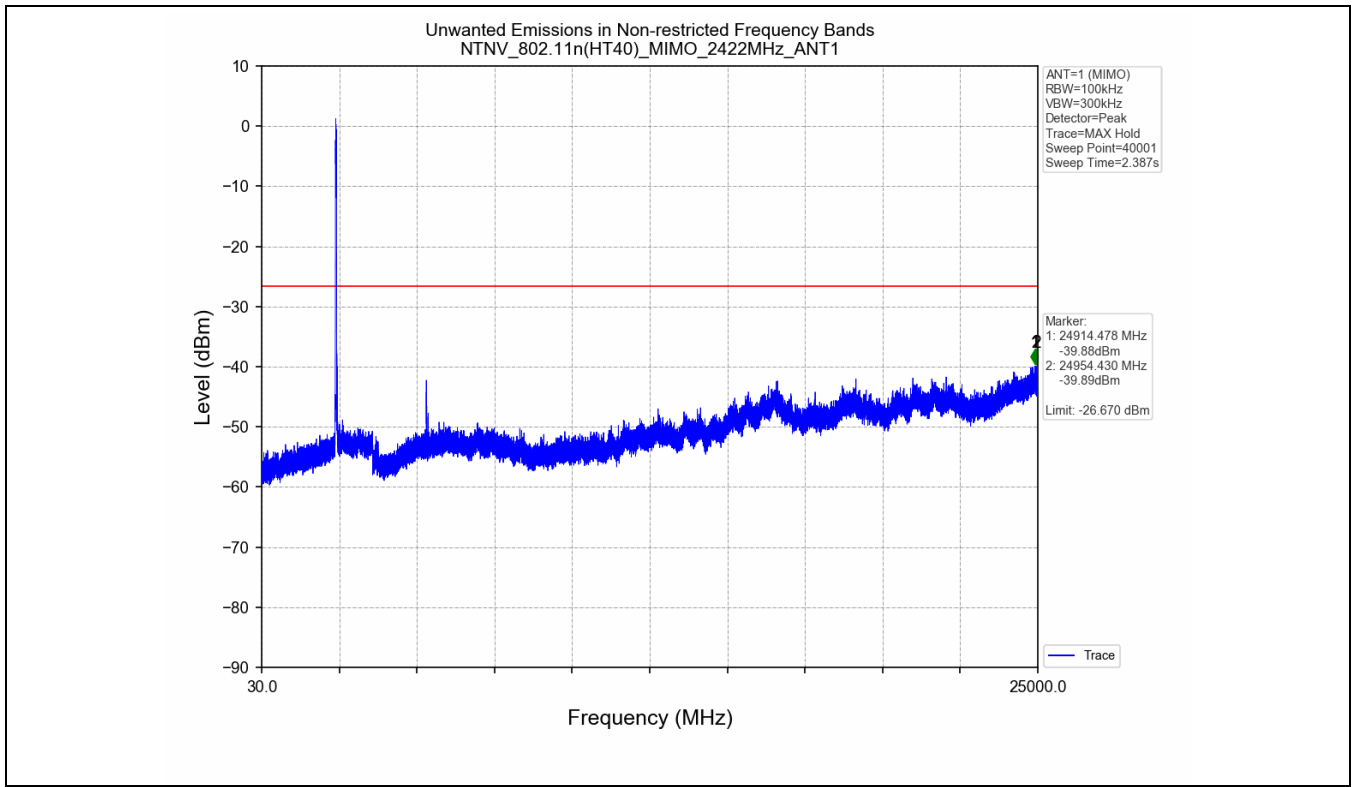


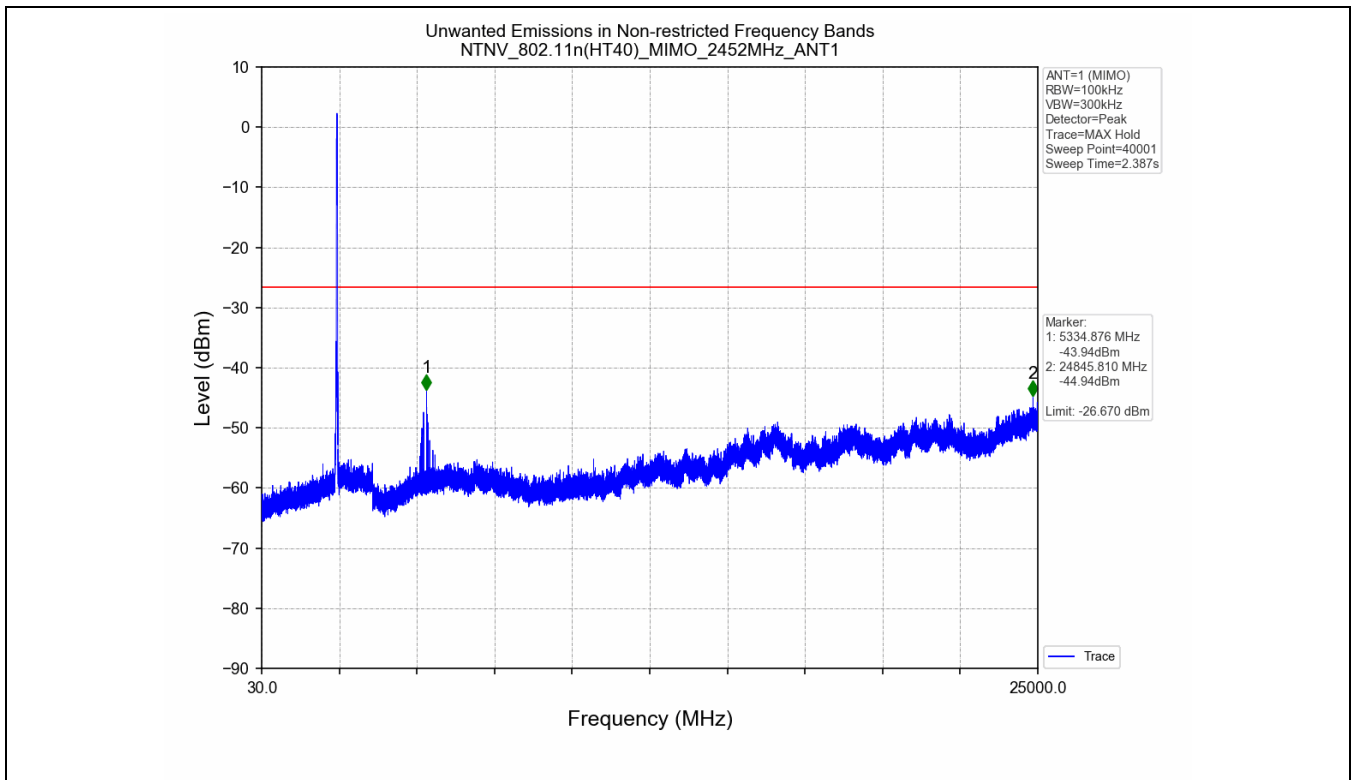
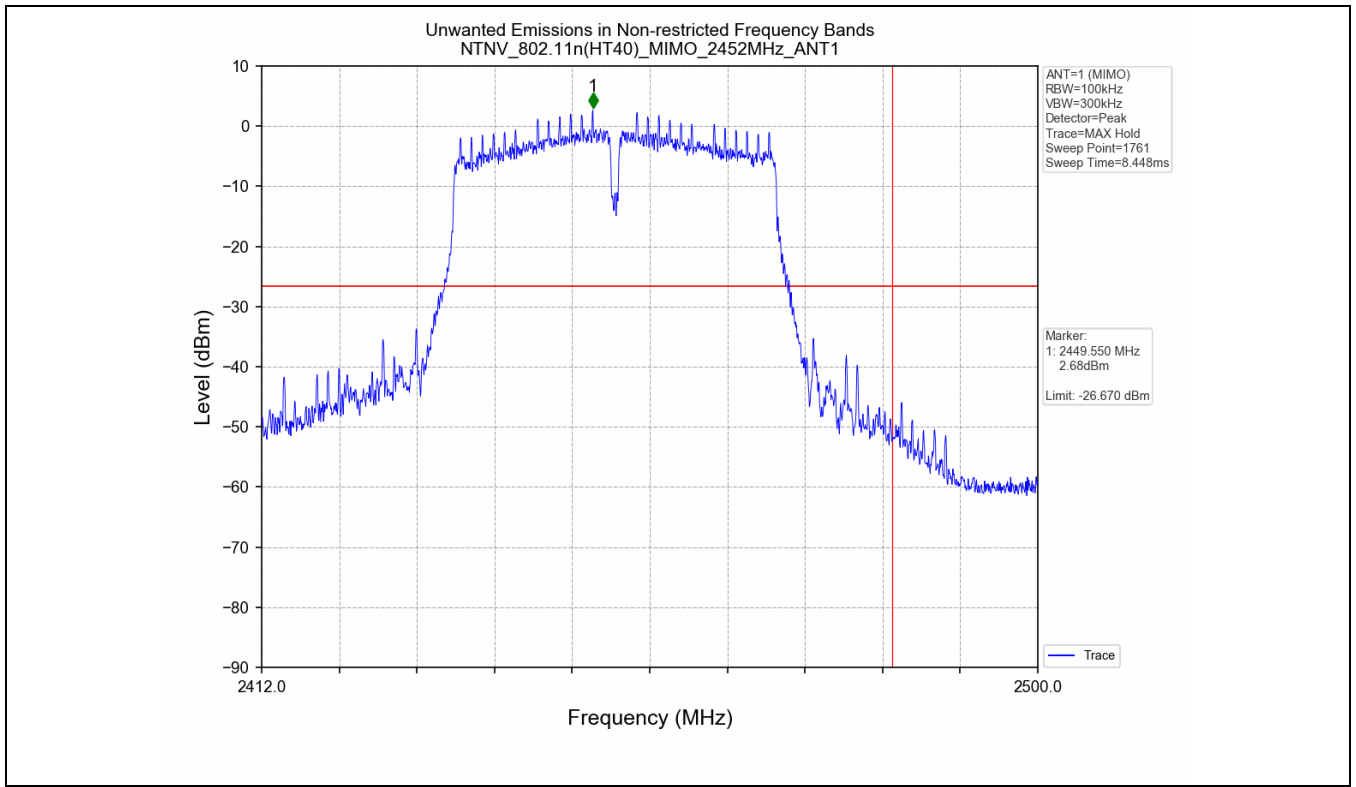












10 Appendix for 15.247-MT7603EN Chip

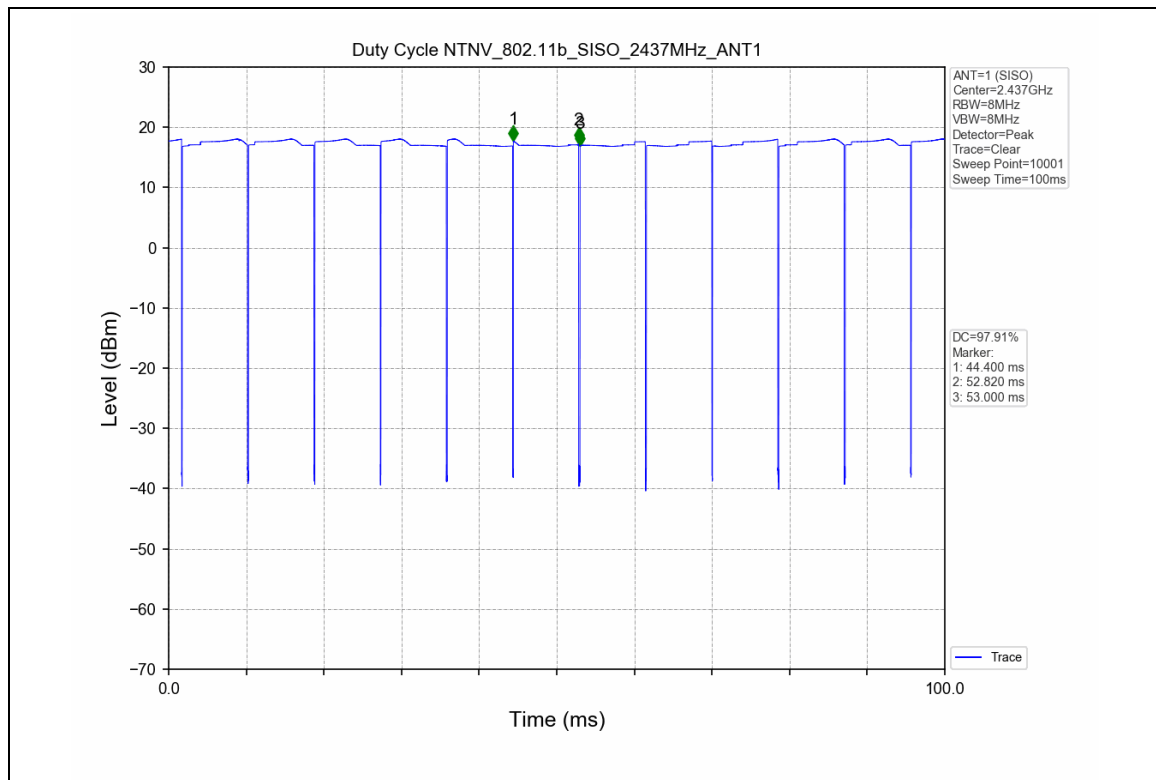
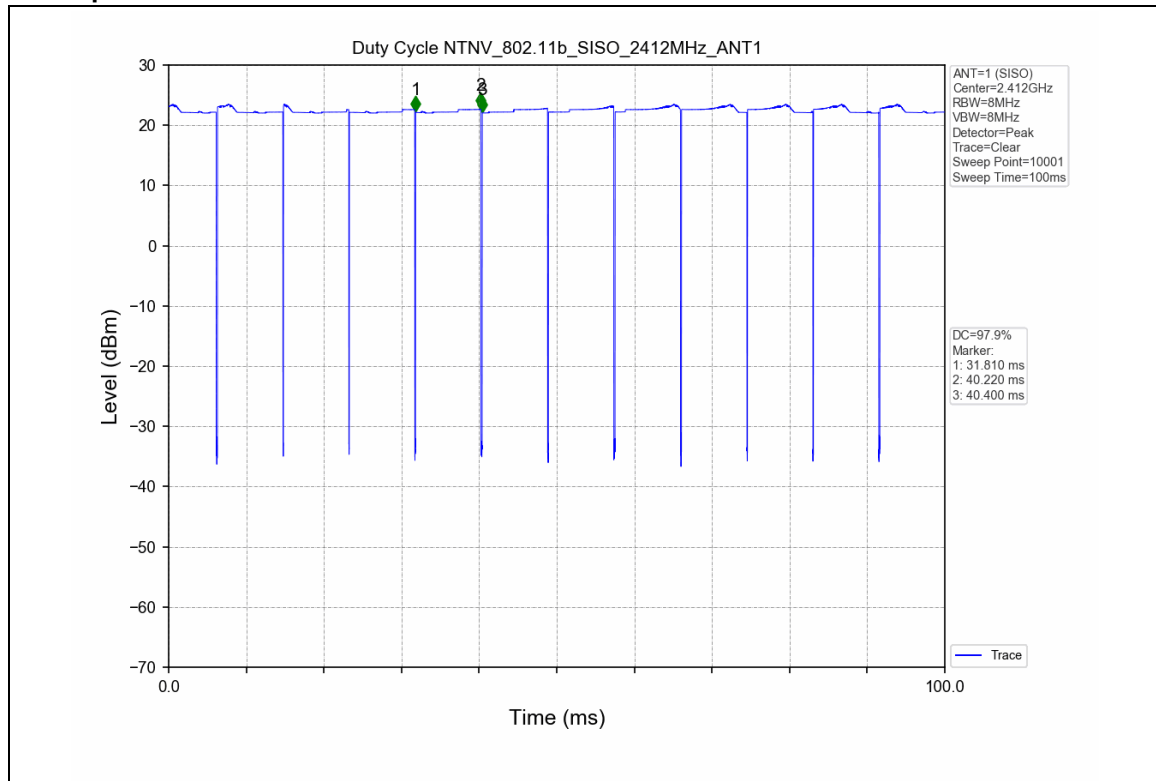
1. Duty Cycle

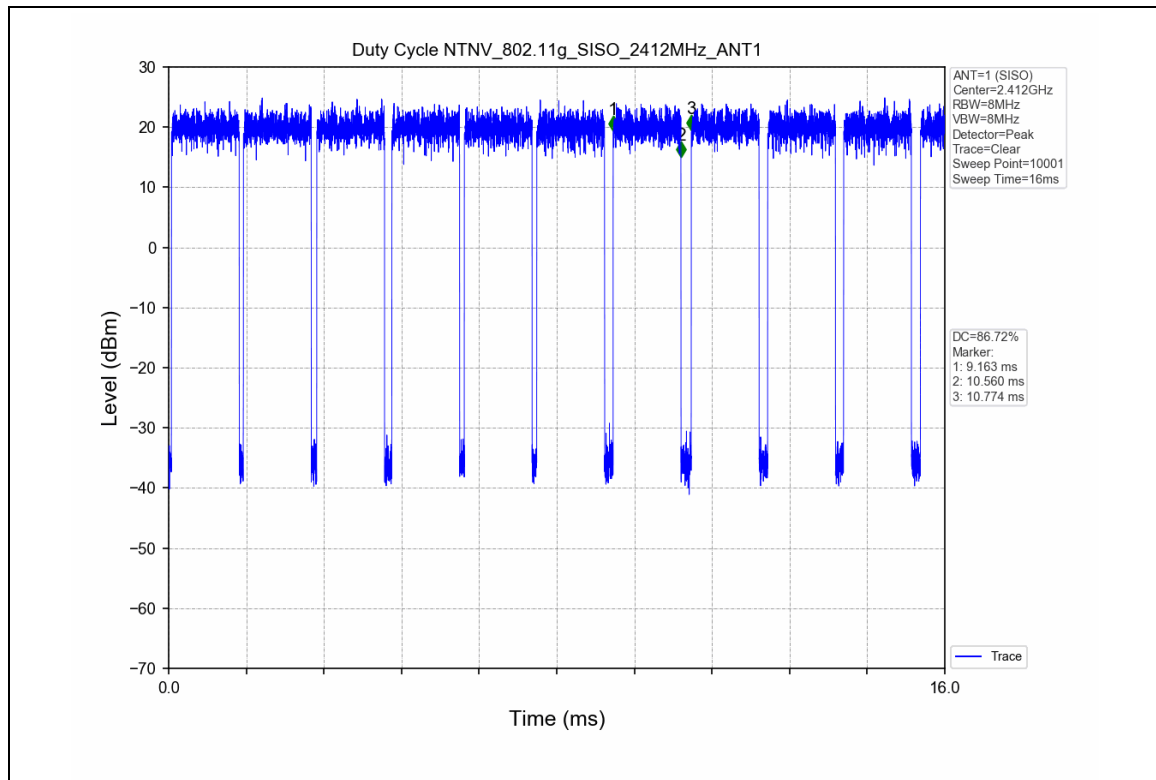
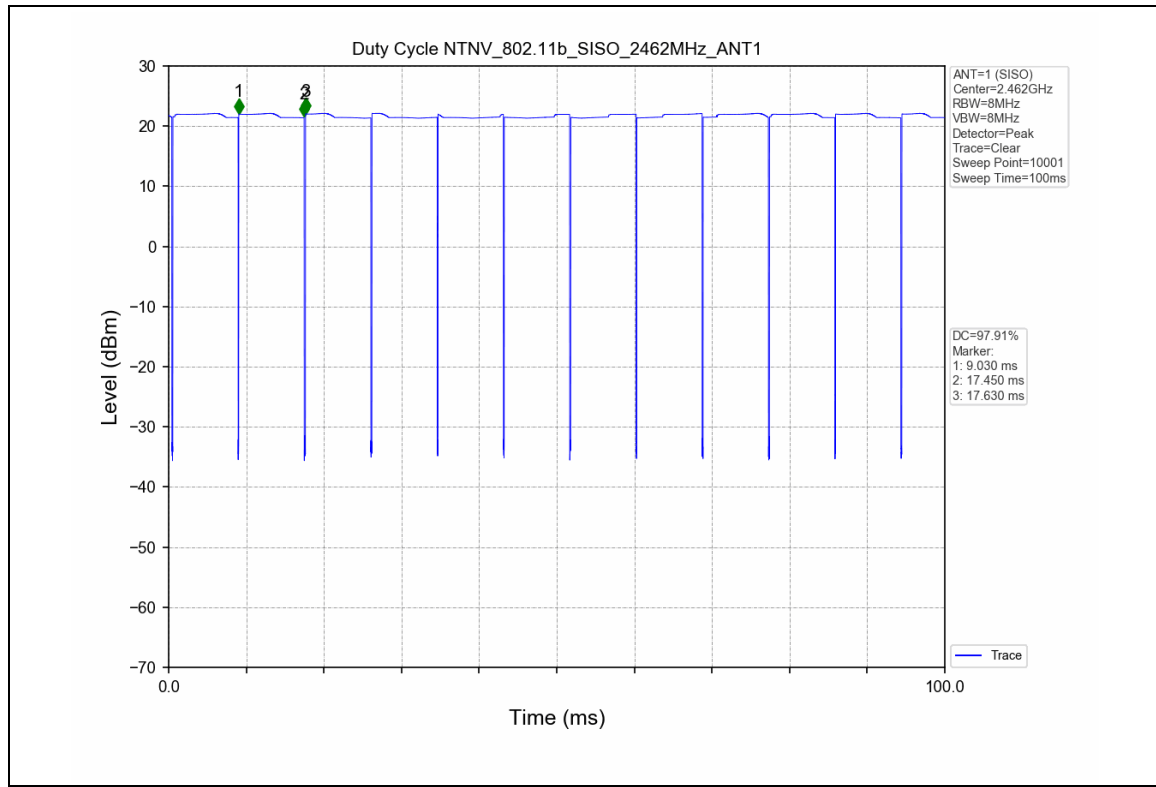
1.1 Test Result

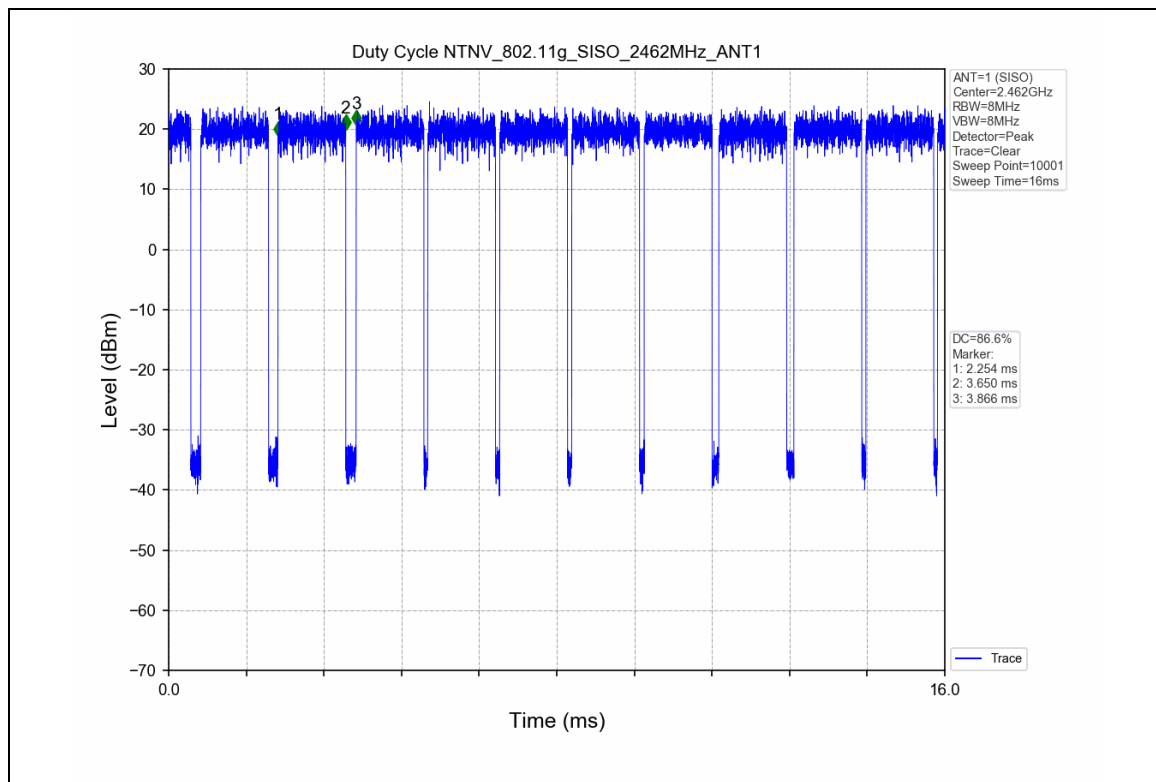
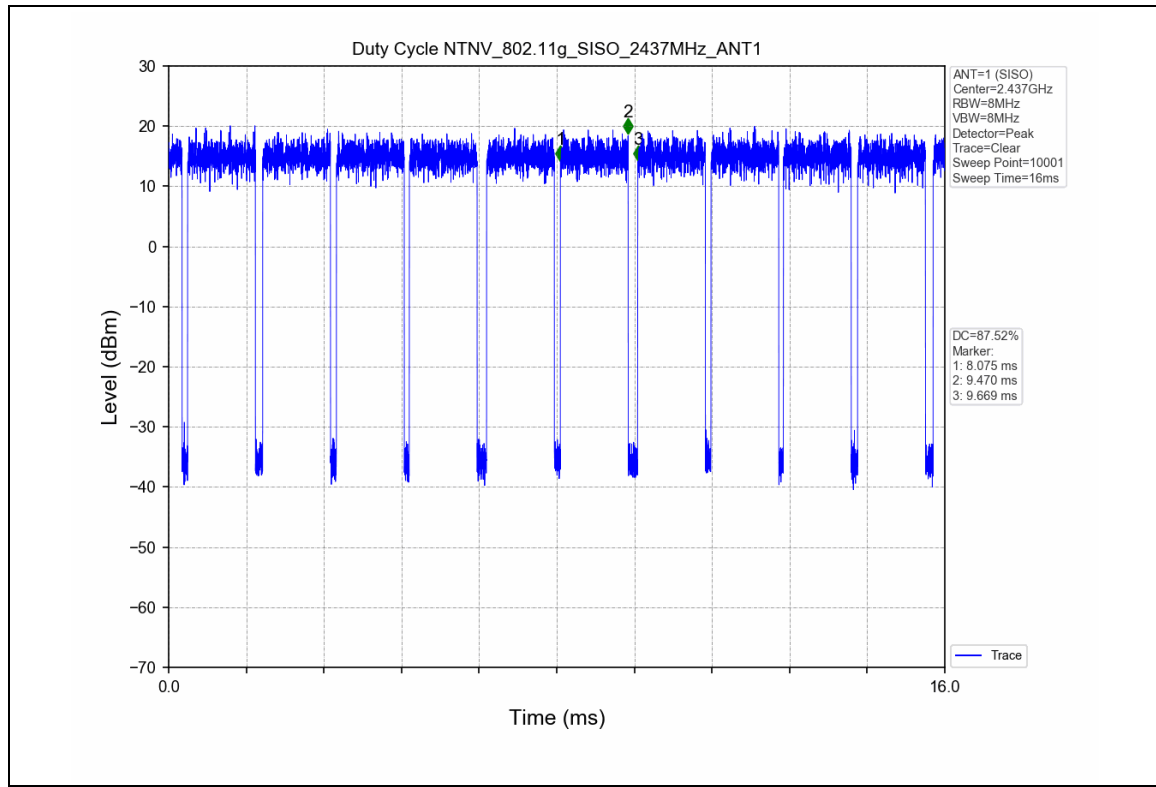
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	8.410	8.590	97.90	0.09
	2437	SISO	1	8.420	8.600	97.91	0.09
	2462	SISO	1	8.420	8.600	97.91	0.09
802.11g	2412	SISO	1	1.397	1.611	86.72	0.62
	2437	SISO	1	1.395	1.594	87.52	0.58
	2462	SISO	1	1.396	1.612	86.60	0.62
802.11n(HT20)	2412	MIMO	1	1.279	1.471	86.95	0.61
	2437	MIMO	1	1.280	1.481	86.43	0.63
	2462	MIMO	1	1.280	1.480	86.49	0.63
802.11n(HT40)	2422	MIMO	1	0.636	0.849	74.91	1.25
	2437	MIMO	1	0.636	0.814	78.13	1.07
	2452	MIMO	1	0.636	0.850	74.82	1.26

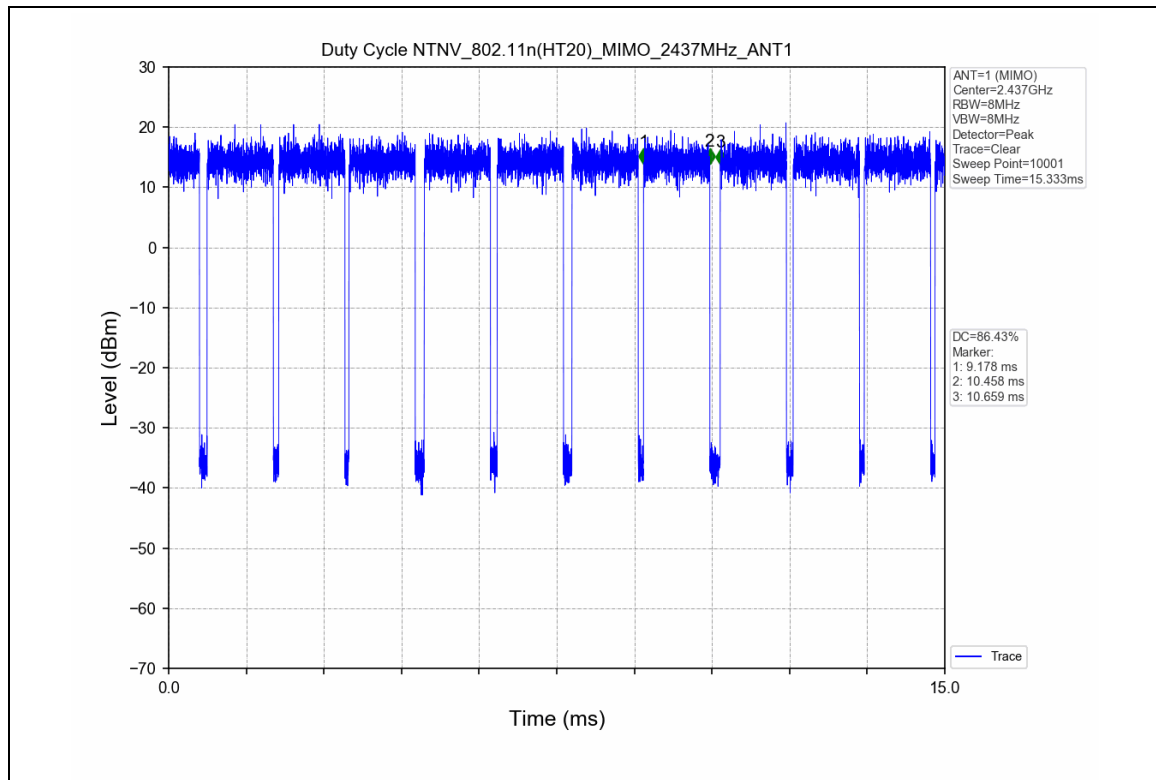
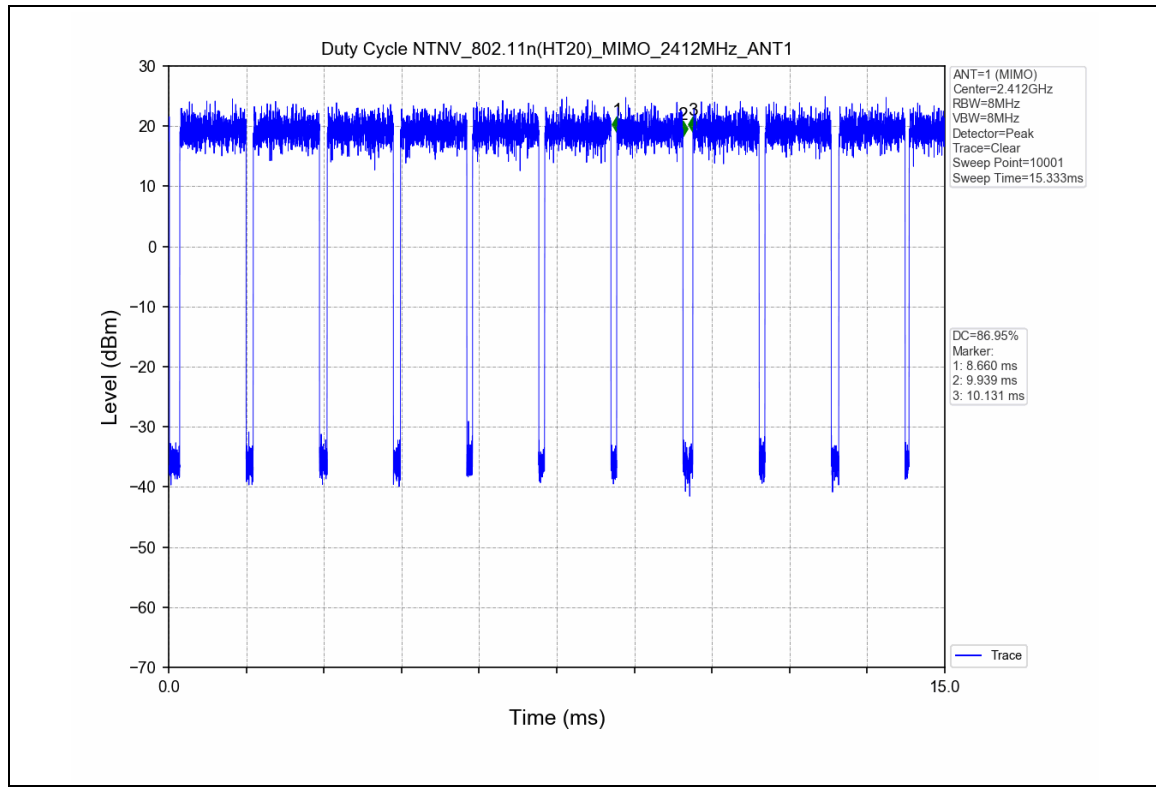


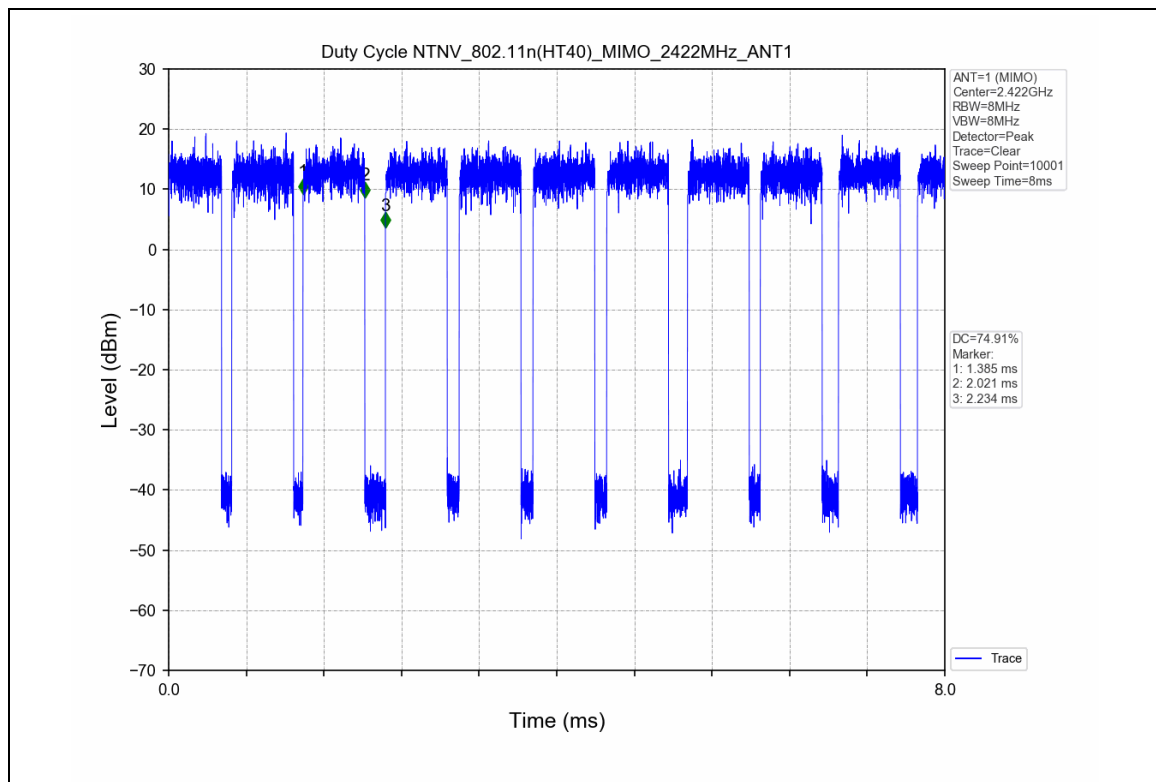
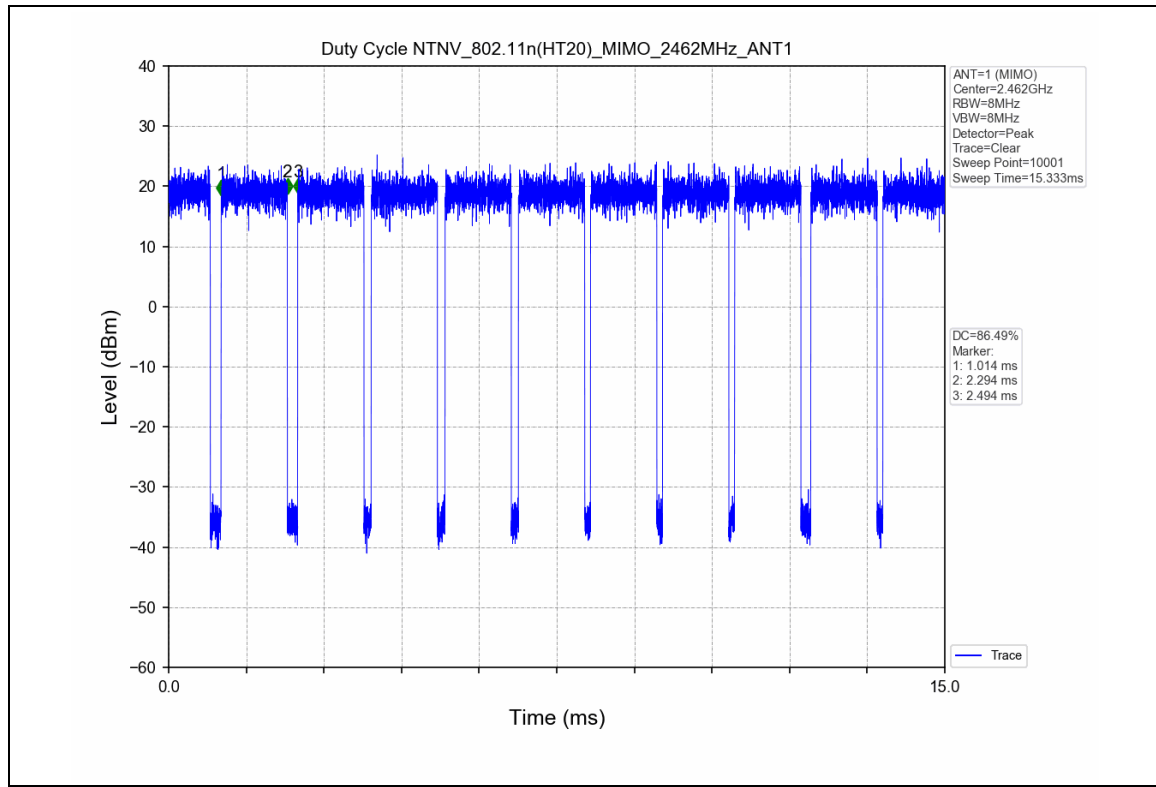
1.2 Test Graph

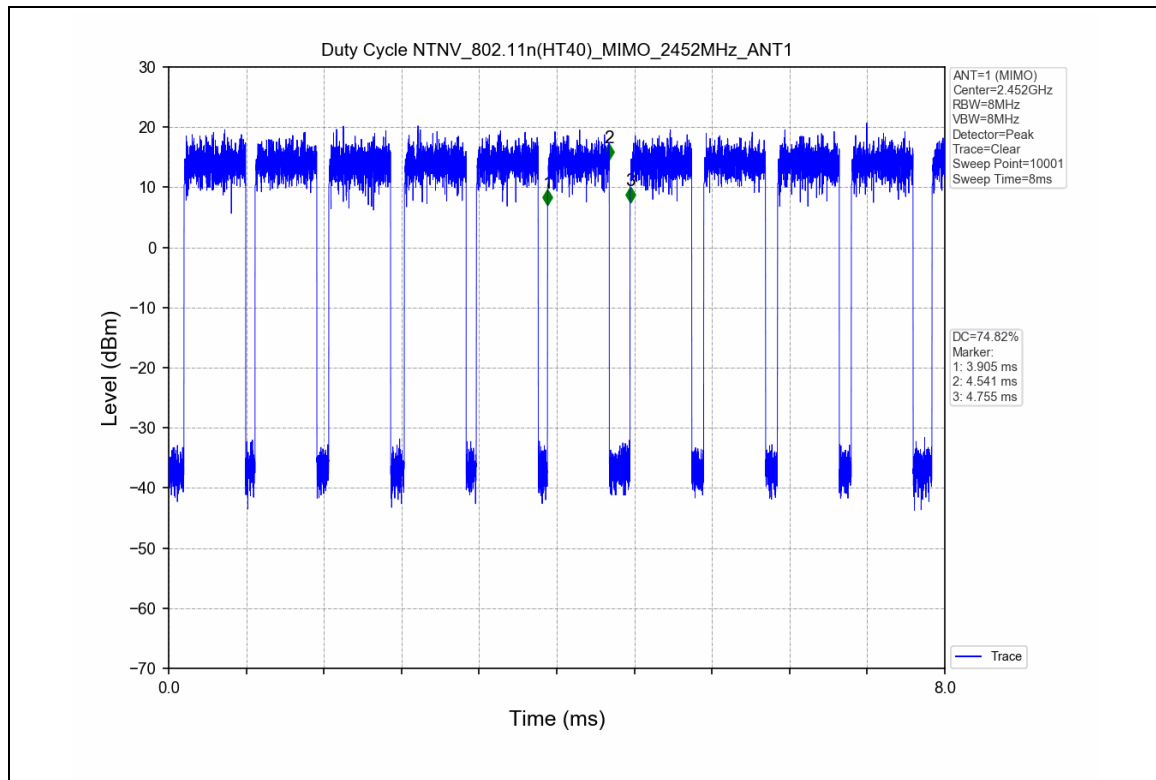
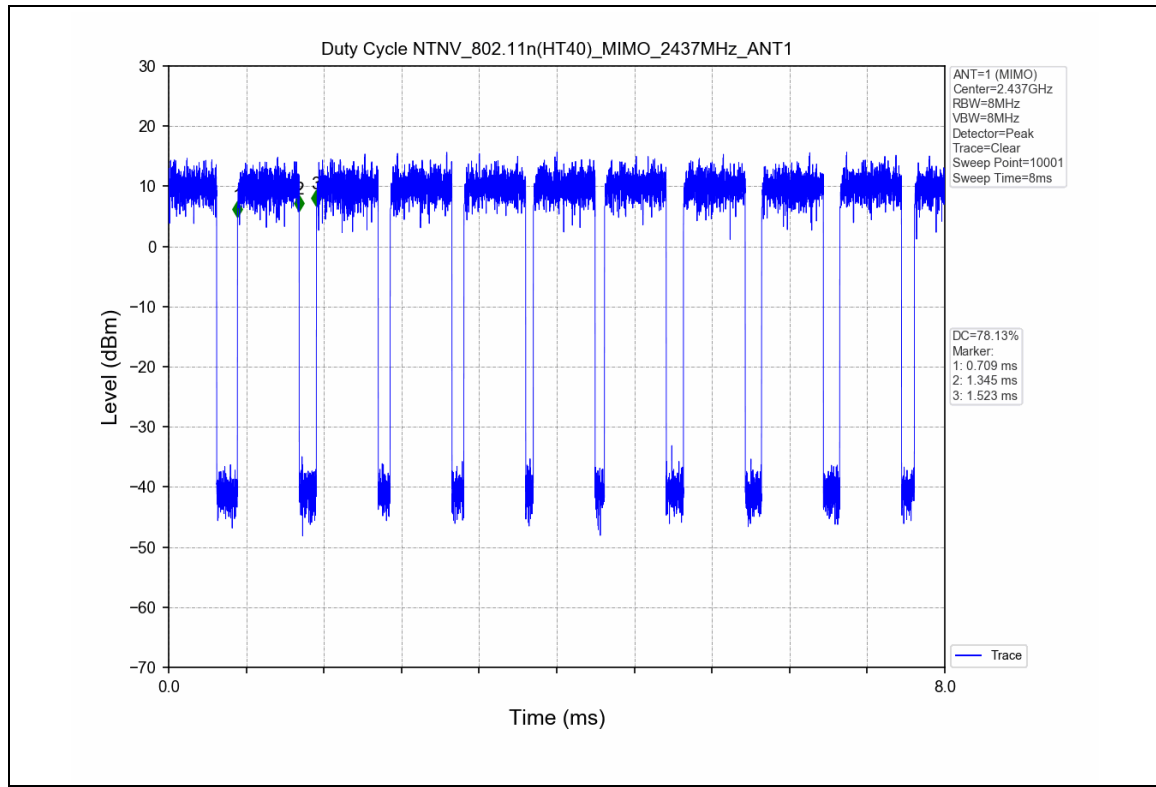












2. Bandwidth

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	9.083	≥0.5	PASS
	2437	SISO	1	9.637	≥0.5	PASS
	2462	SISO	1	9.120	≥0.5	PASS
802.11g	2412	SISO	1	13.838	≥0.5	PASS
	2437	SISO	1	15.694	≥0.5	PASS
	2462	SISO	1	14.476	≥0.5	PASS
802.11n(HT20)	2412	MIMO	1	13.805	≥0.5	PASS
	2437	MIMO	1	16.333	≥0.5	PASS
	2462	MIMO	1	13.829	≥0.5	PASS
802.11n(HT40)	2422	MIMO	1	22.619	≥0.5	PASS
	2437	MIMO	1	35.448	≥0.5	PASS
	2452	MIMO	1	15.157	≥0.5	PASS



2.2 Test Graph - 6dB Bandwidth

