



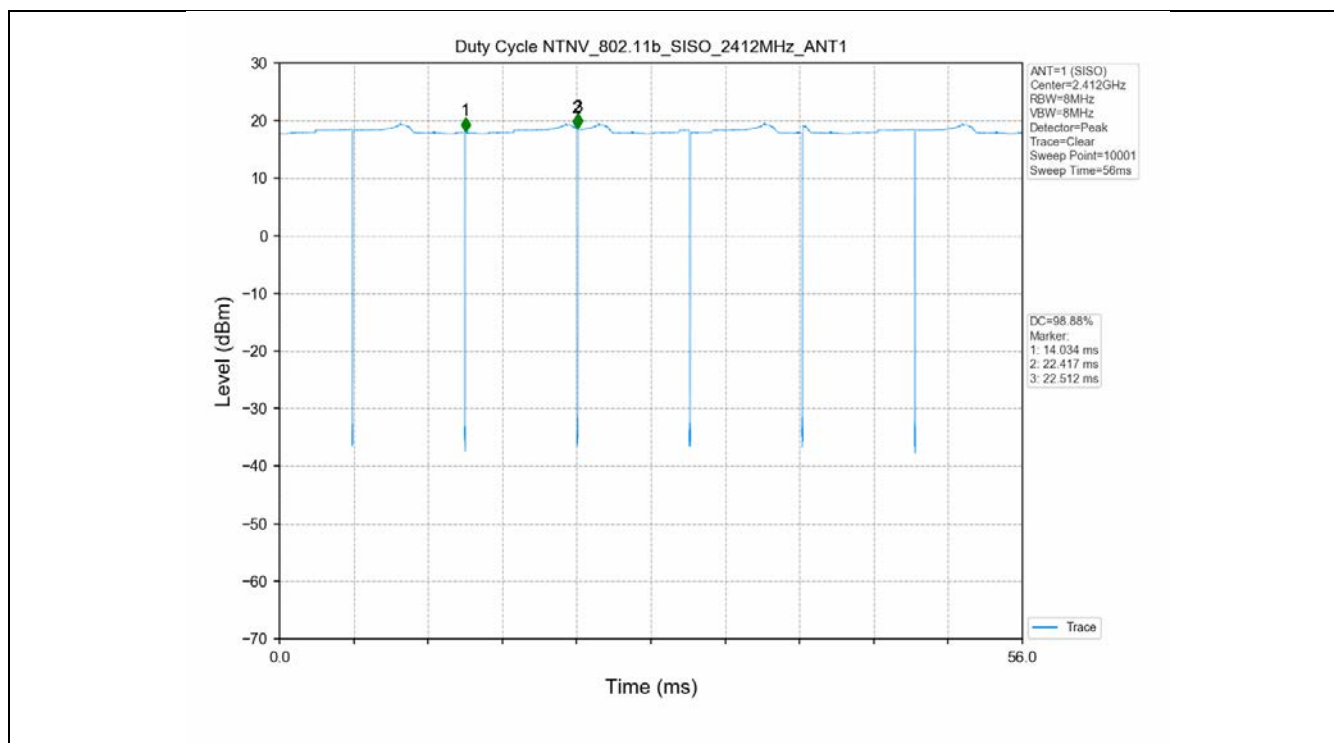
Appendix A for SHEM200600508201

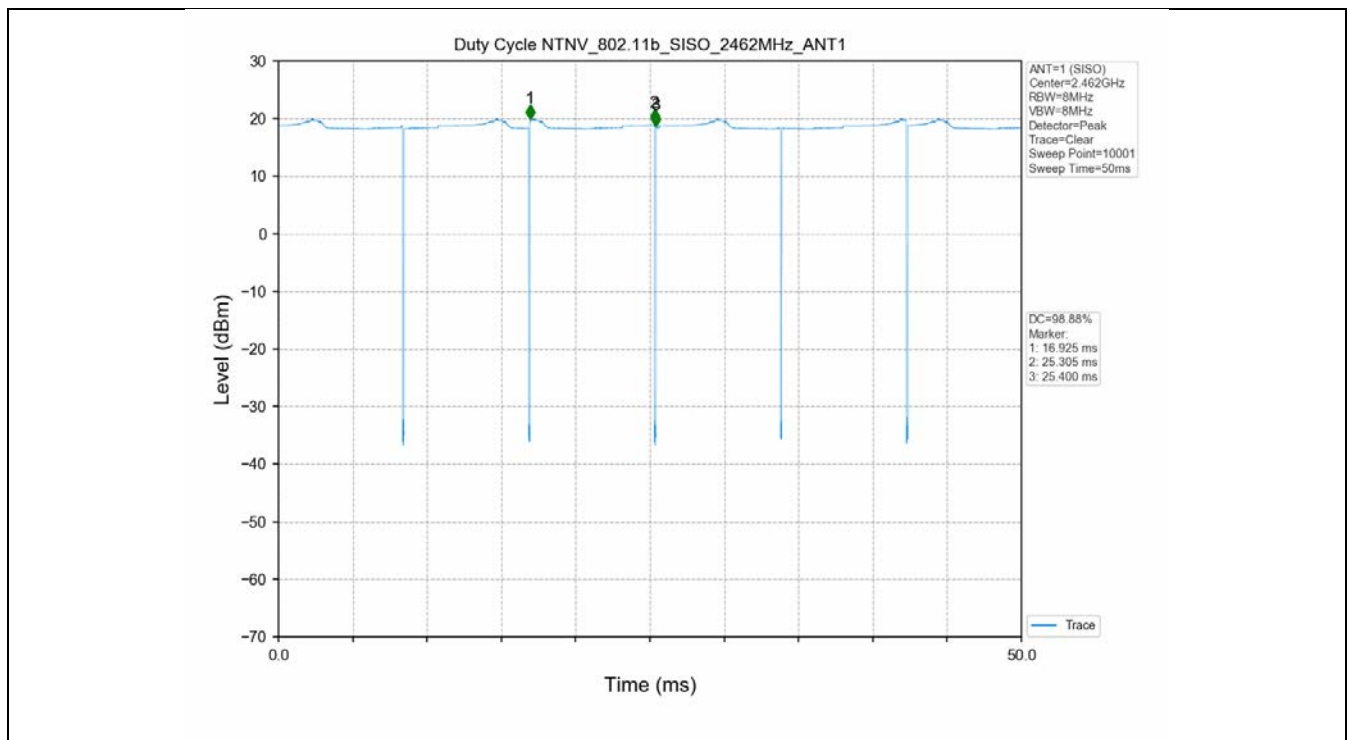
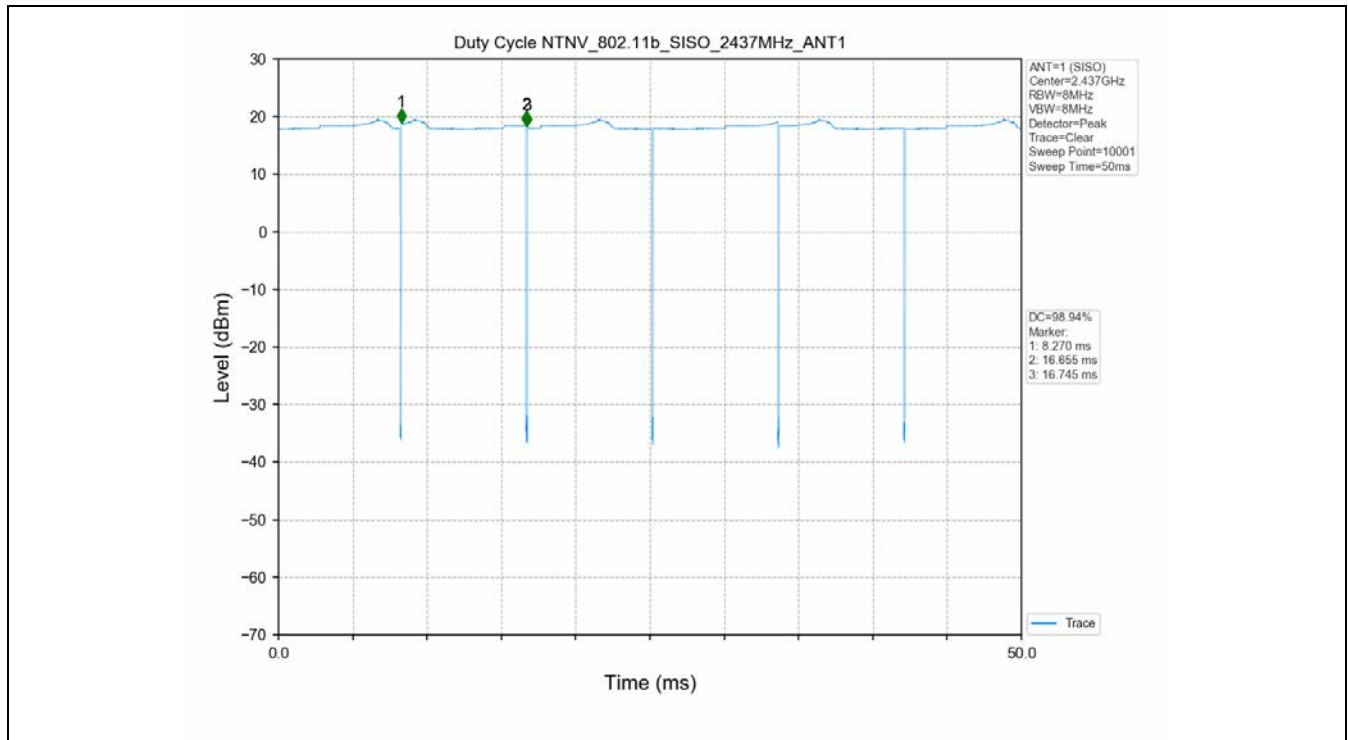
1. Duty Cycle

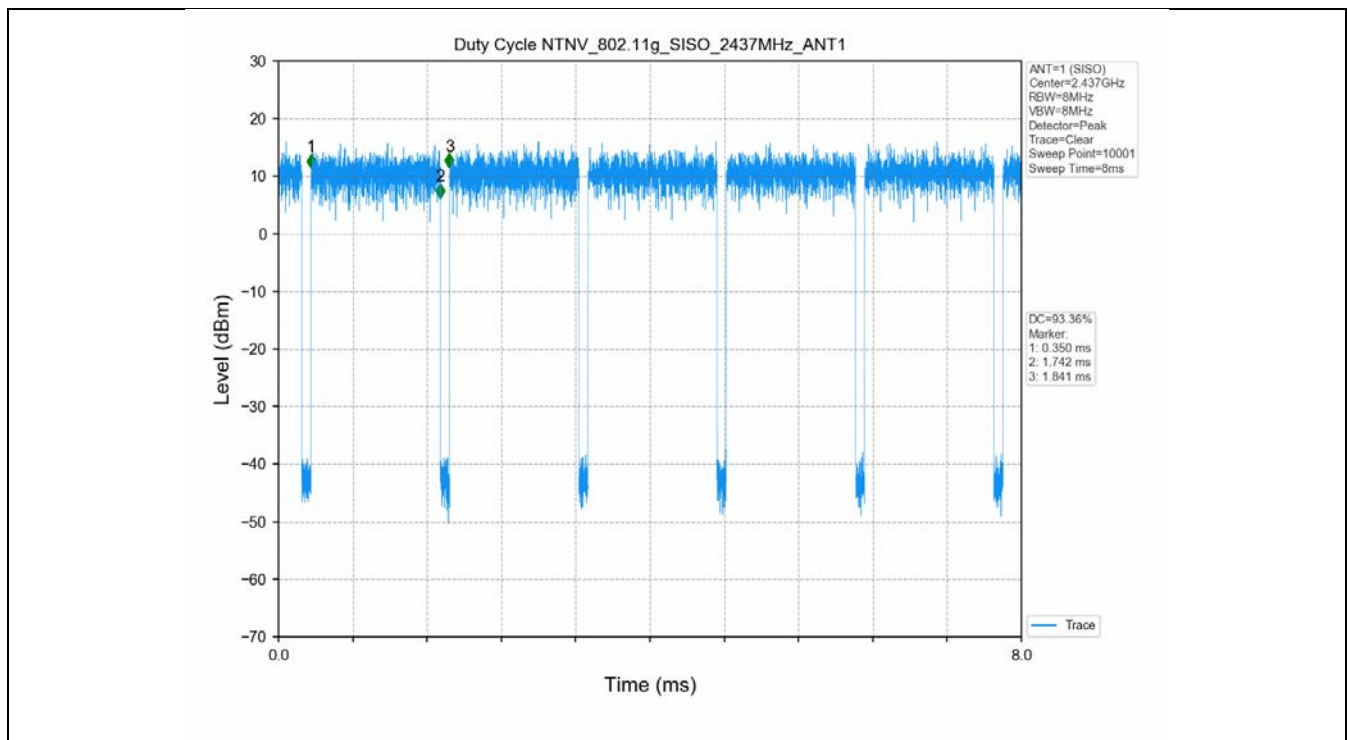
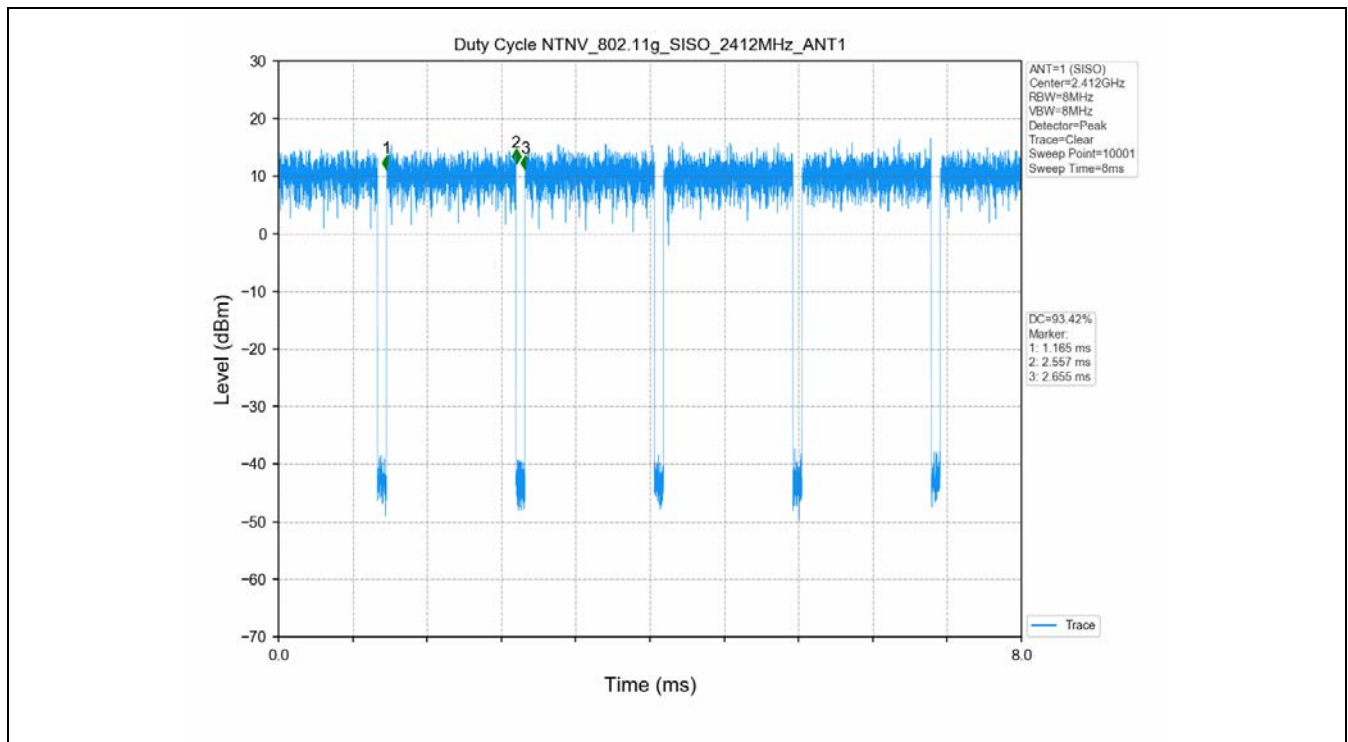
1.1 Test Result

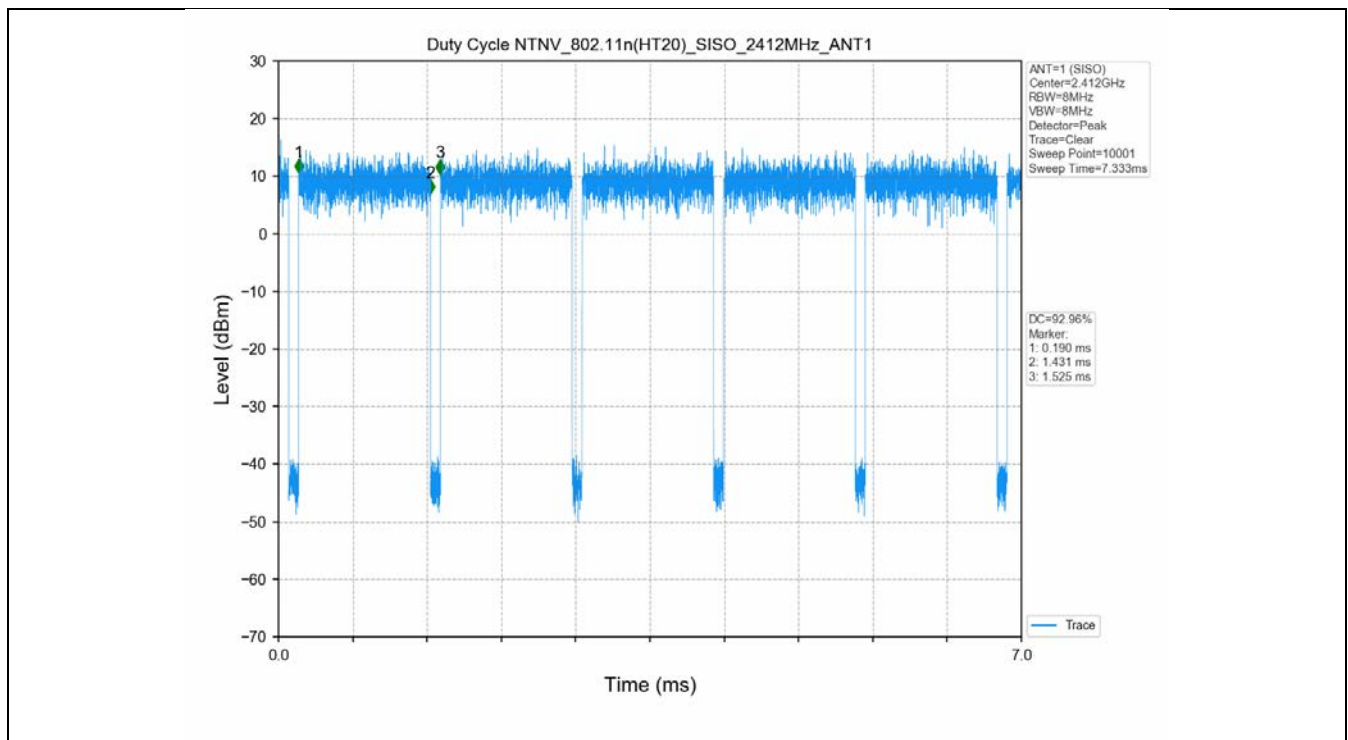
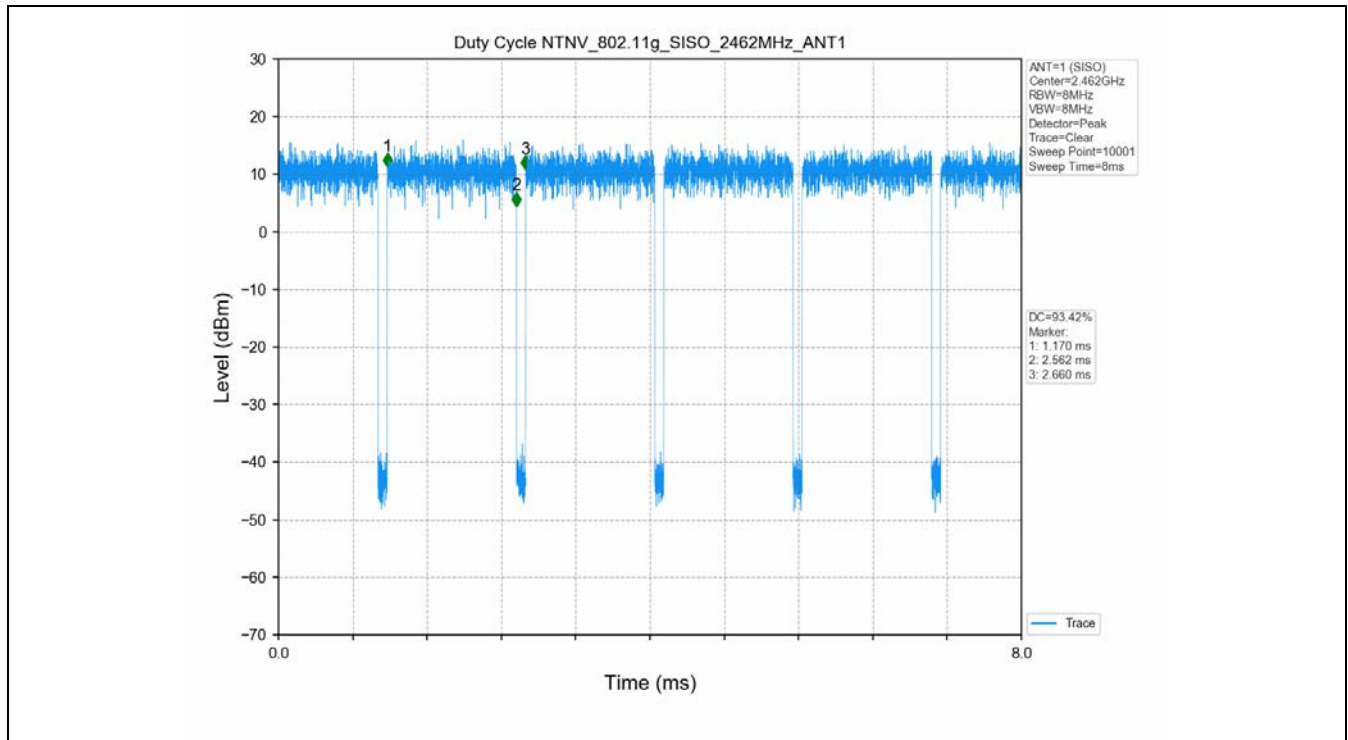
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	8.383	8.478	98.88	0.05
	2437	SISO	1	8.385	8.475	98.94	0.05
	2462	SISO	1	8.380	8.475	98.88	0.05
802.11g	2412	SISO	1	1.392	1.490	93.42	0.30
	2437	SISO	1	1.392	1.491	93.36	0.30
	2462	SISO	1	1.392	1.490	93.42	0.30
802.11n(HT20)	2412	SISO	1	1.241	1.335	92.96	0.32
	2437	SISO	1	1.241	1.335	92.96	0.32
	2462	SISO	1	1.241	1.334	93.03	0.31
802.11n(HT40)	2422	SISO	1	0.648	0.746	86.86	0.61
	2437	SISO	1	0.648	0.746	86.86	0.61
	2452	SISO	1	0.648	0.746	86.86	0.61

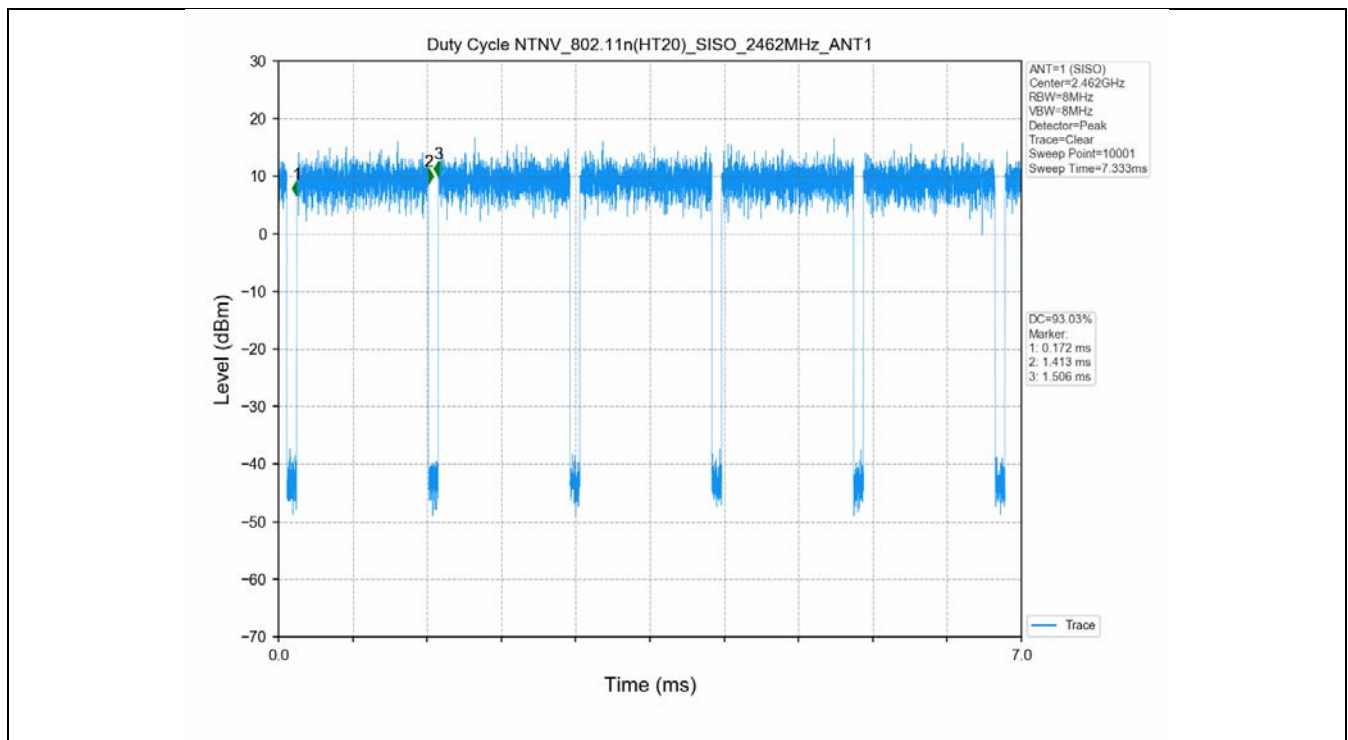
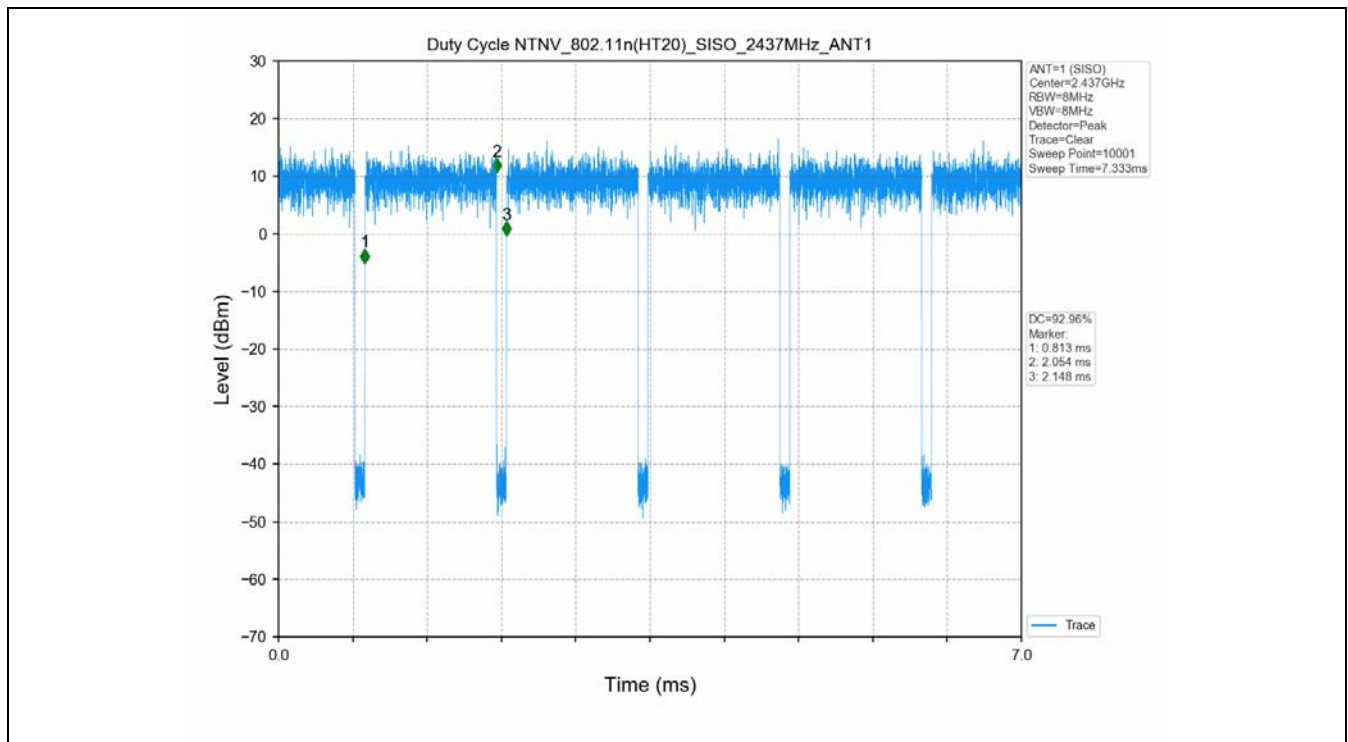
1.2 Test Graph

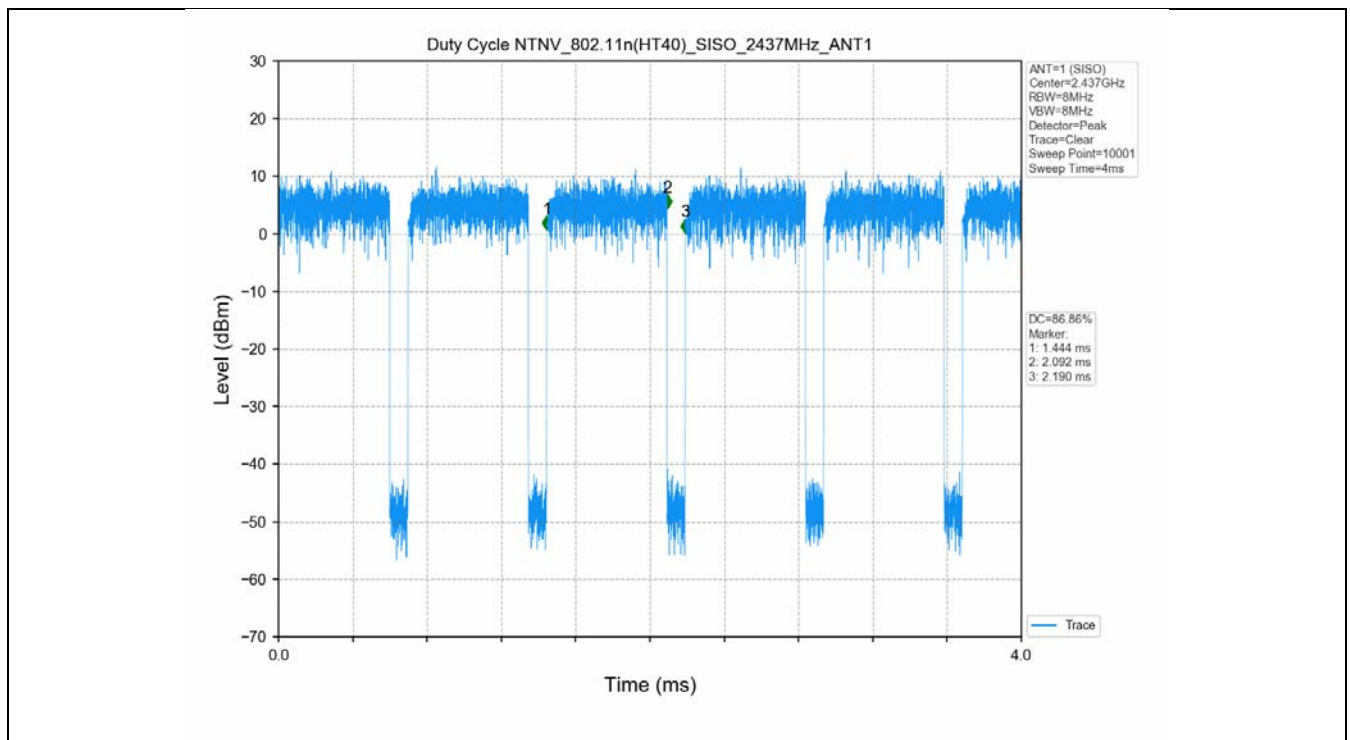
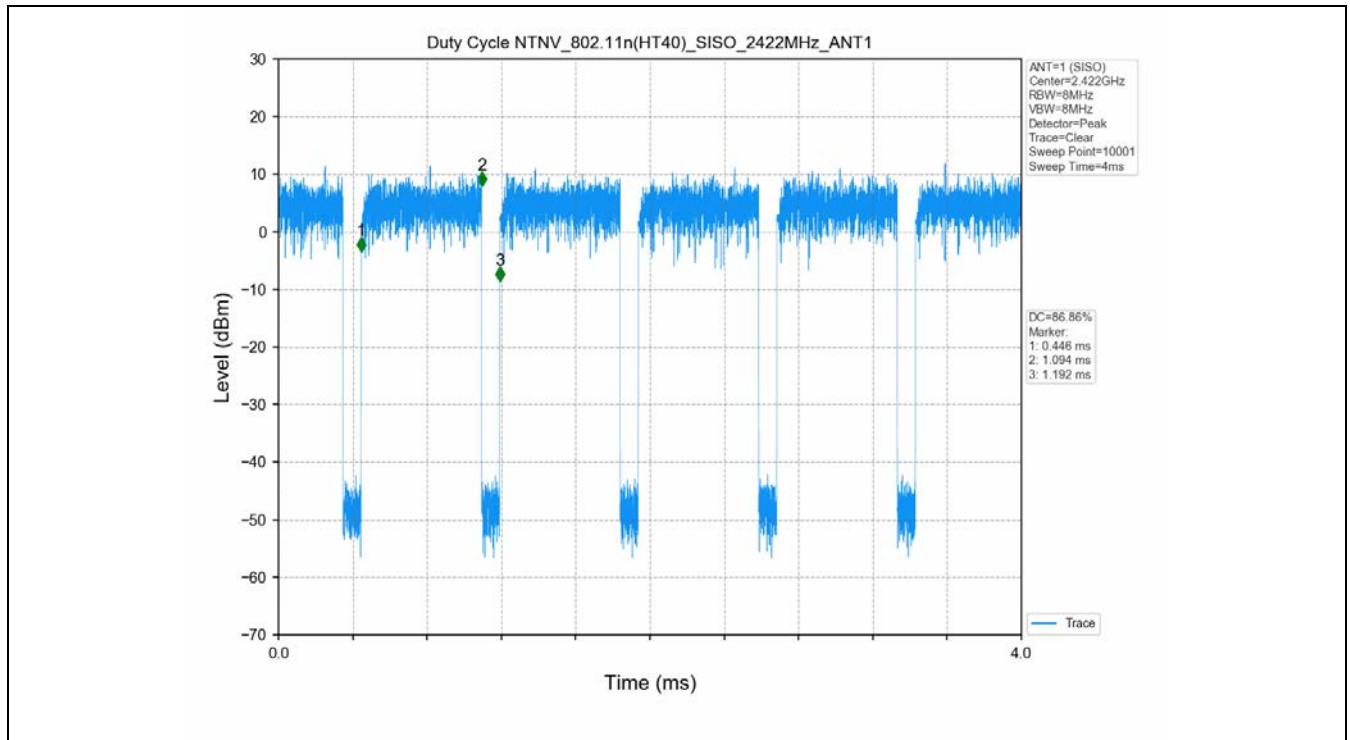


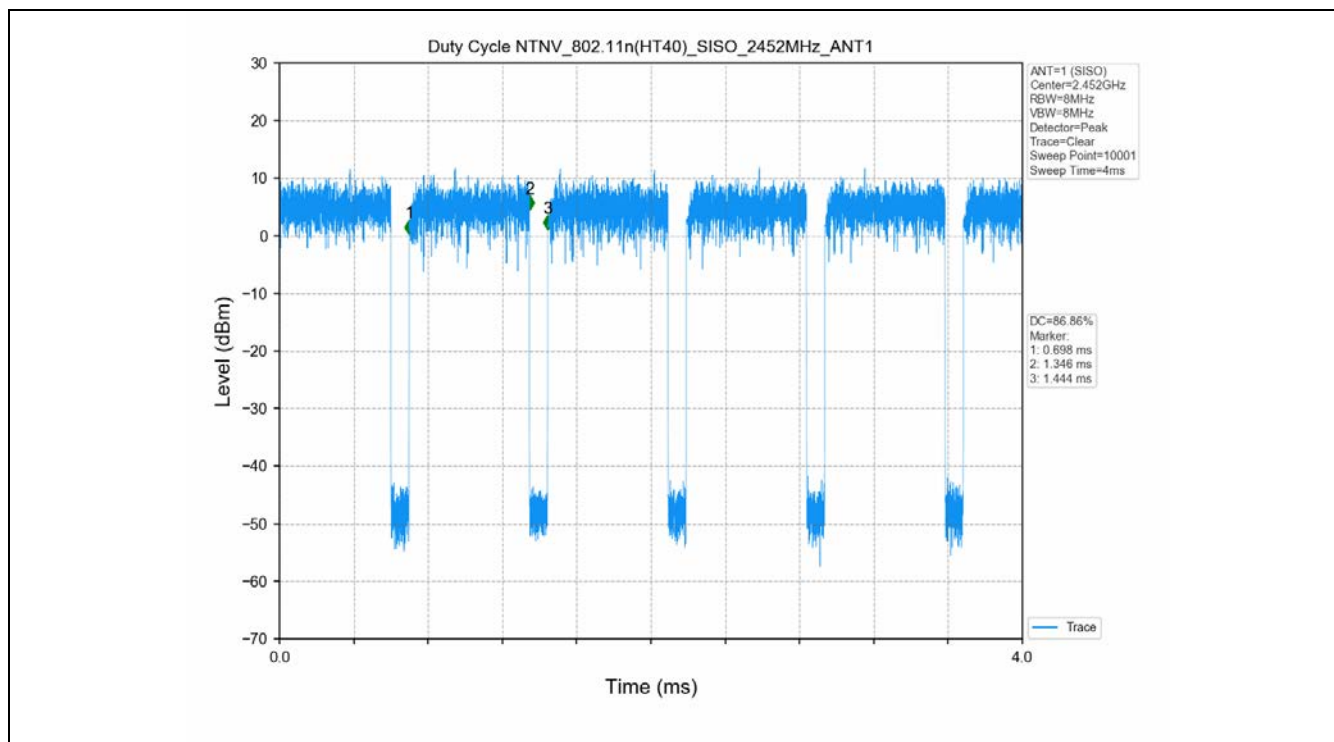












2. Bandwidth

2.1 Test Result

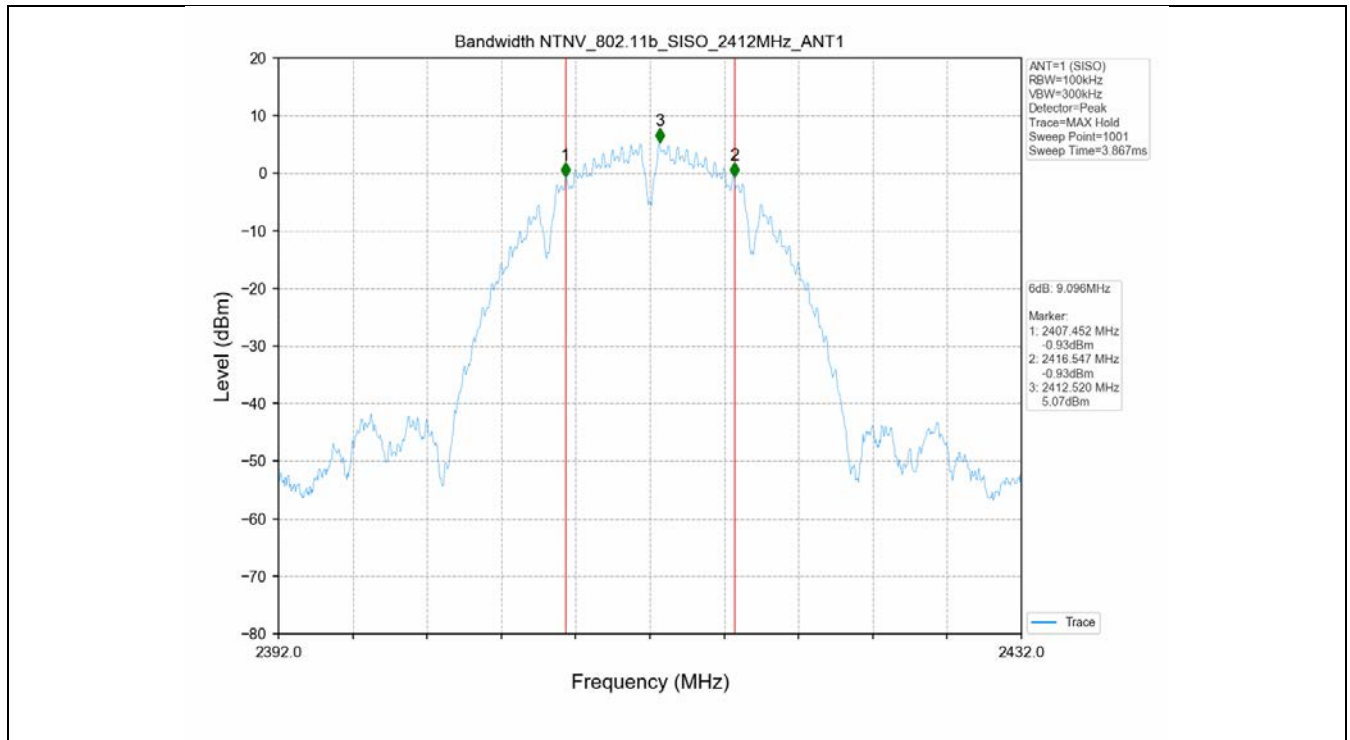
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	9.096	≥0.5	PASS
	2437	SISO	1	9.095	≥0.5	PASS
	2462	SISO	1	9.090	≥0.5	PASS
802.11g	2412	SISO	1	15.151	≥0.5	PASS
	2437	SISO	1	15.056	≥0.5	PASS
	2462	SISO	1	15.151	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	15.153	≥0.5	PASS
	2437	SISO	1	15.105	≥0.5	PASS
	2462	SISO	1	15.139	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	35.144	≥0.5	PASS
	2437	SISO	1	35.192	≥0.5	PASS
	2452	SISO	1	35.167	≥0.5	PASS

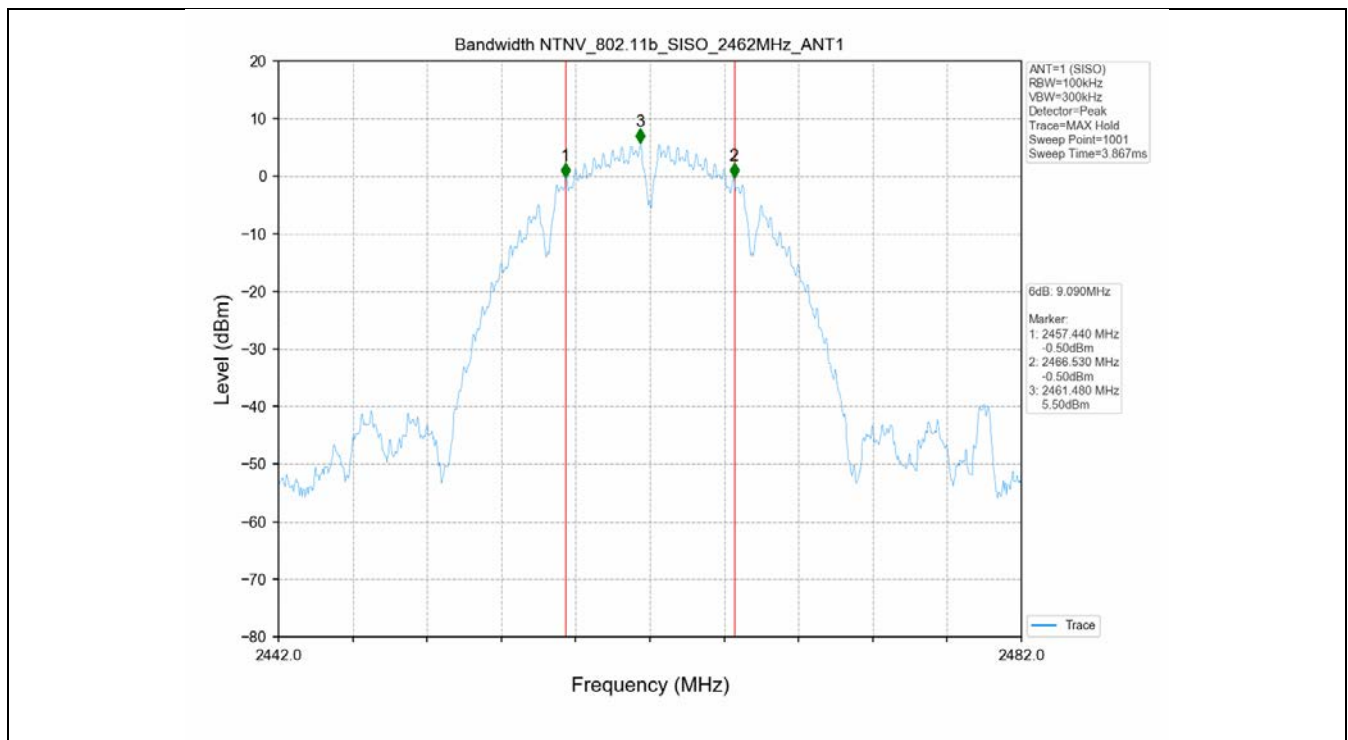
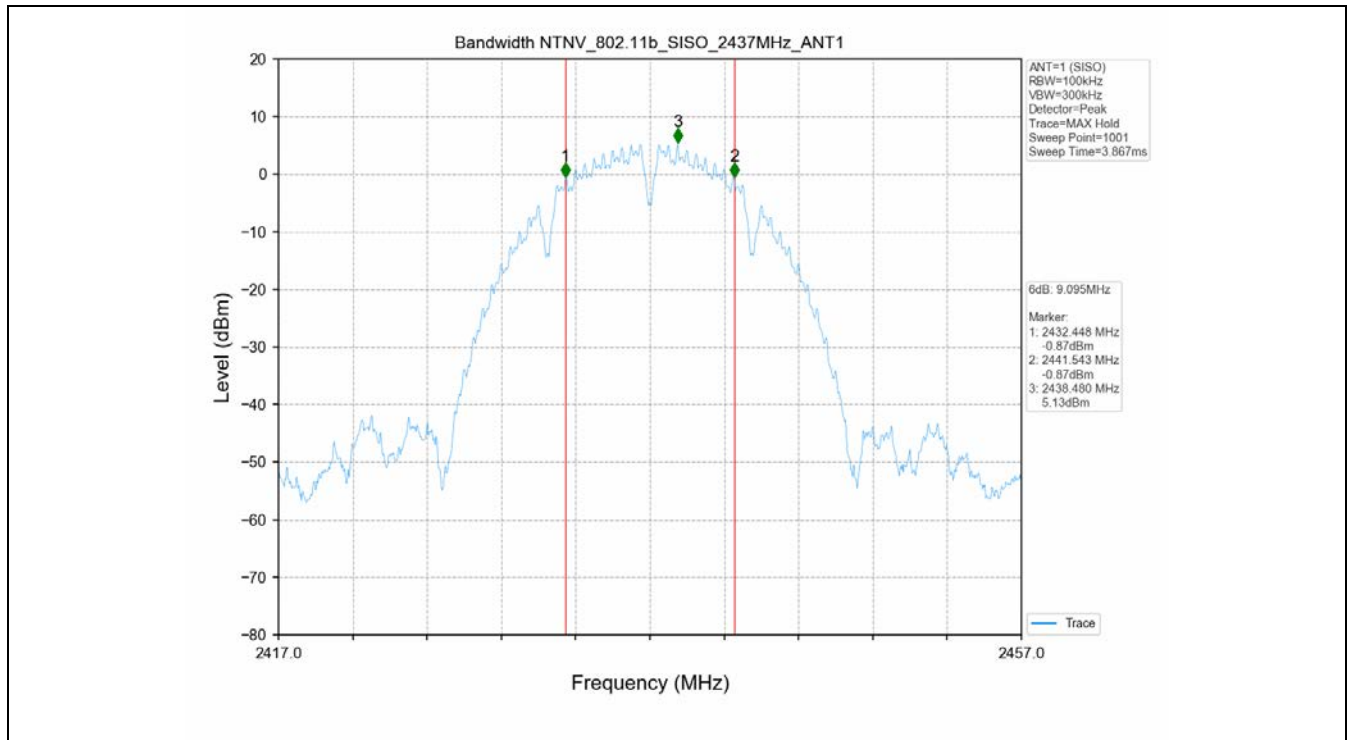
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	13.415	Only for Report Use
	2437	SISO	1	13.406	Only for Report Use
	2462	SISO	1	13.442	Only for Report Use
802.11g	2412	SISO	1	16.661	Only for Report Use
	2437	SISO	1	16.695	Only for Report Use

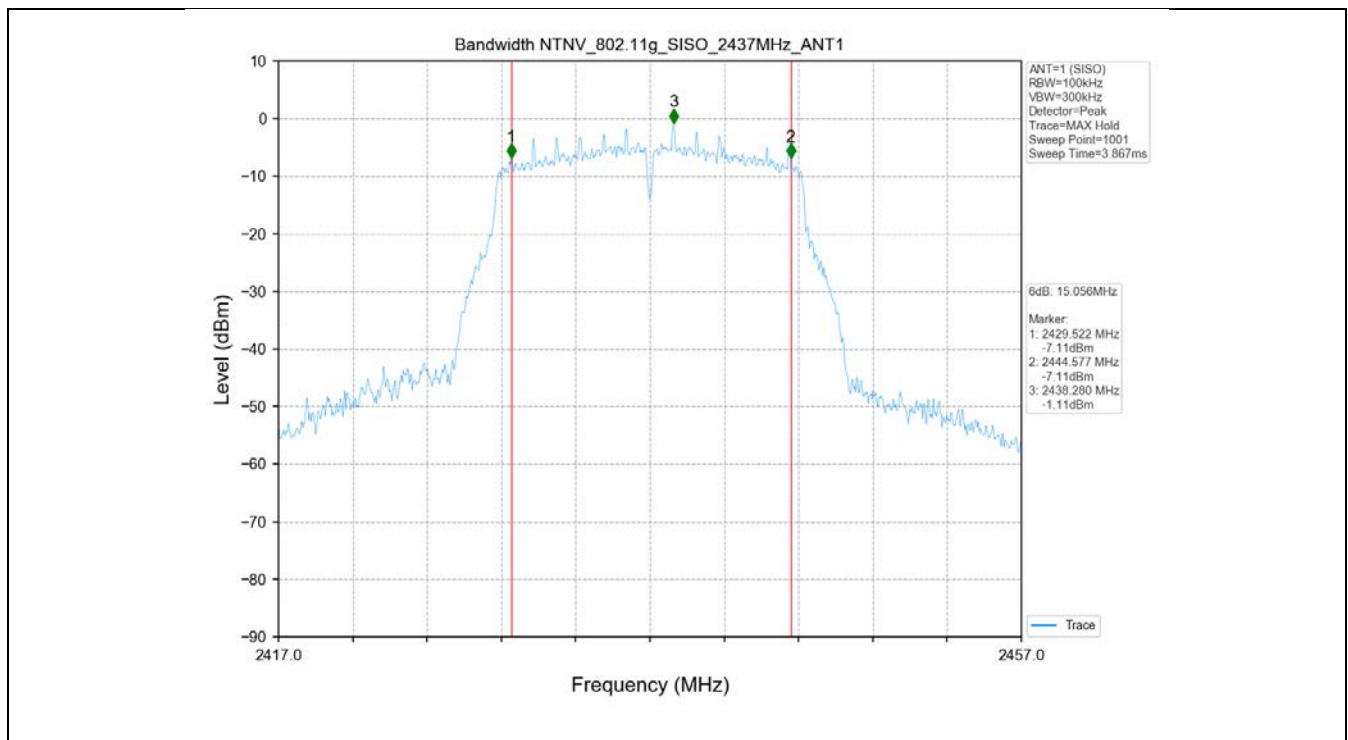
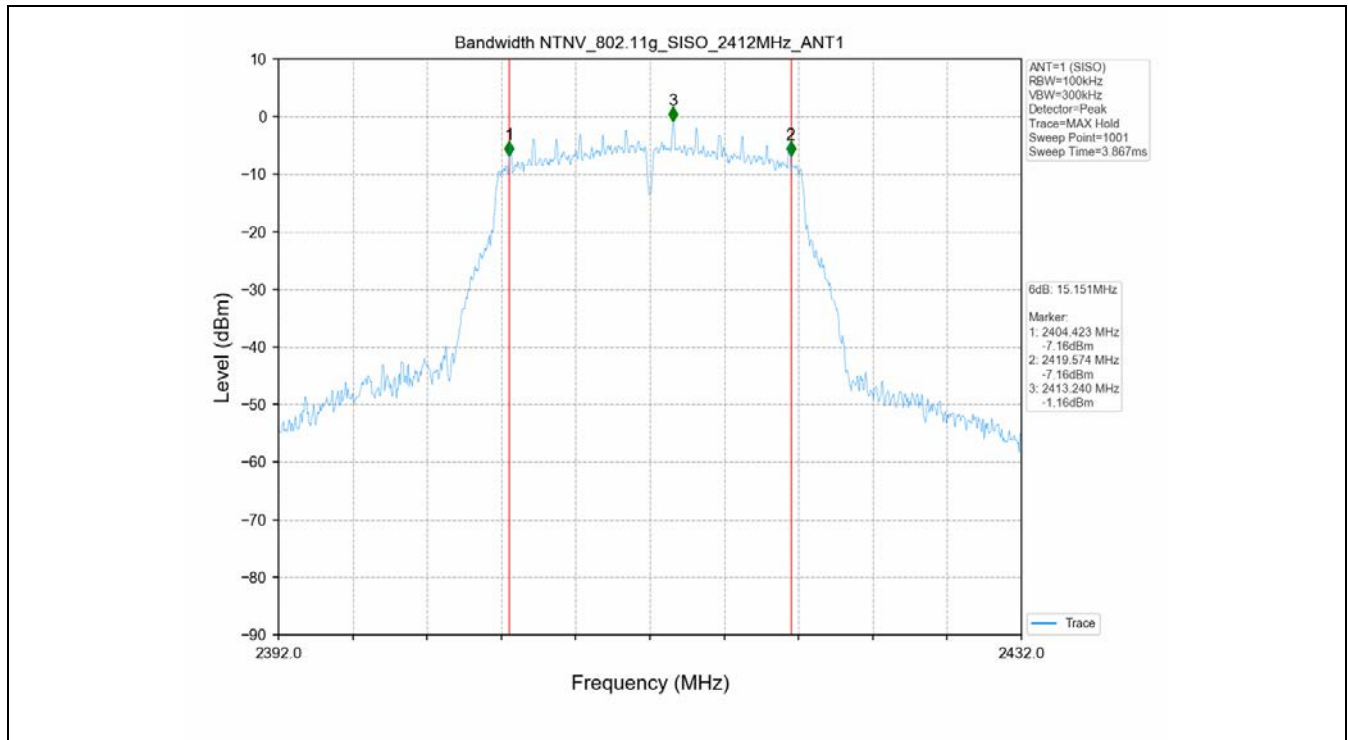


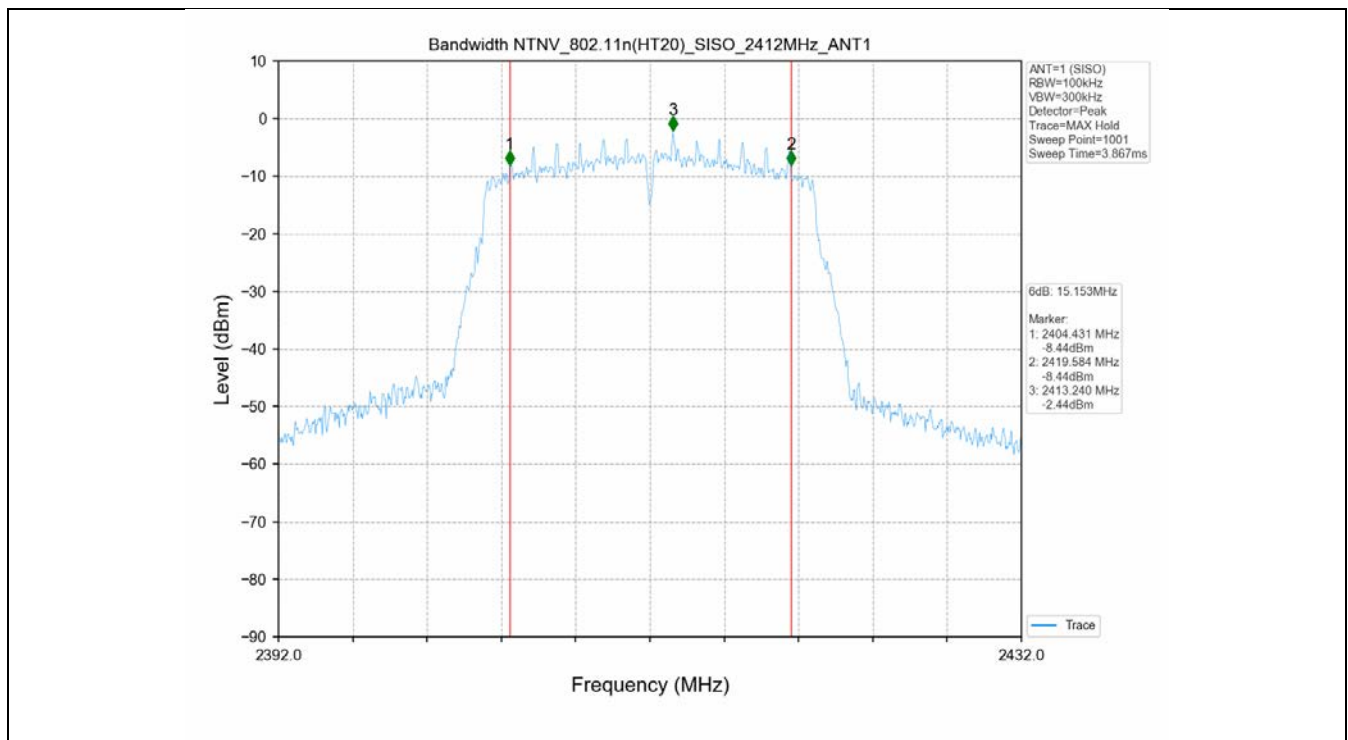
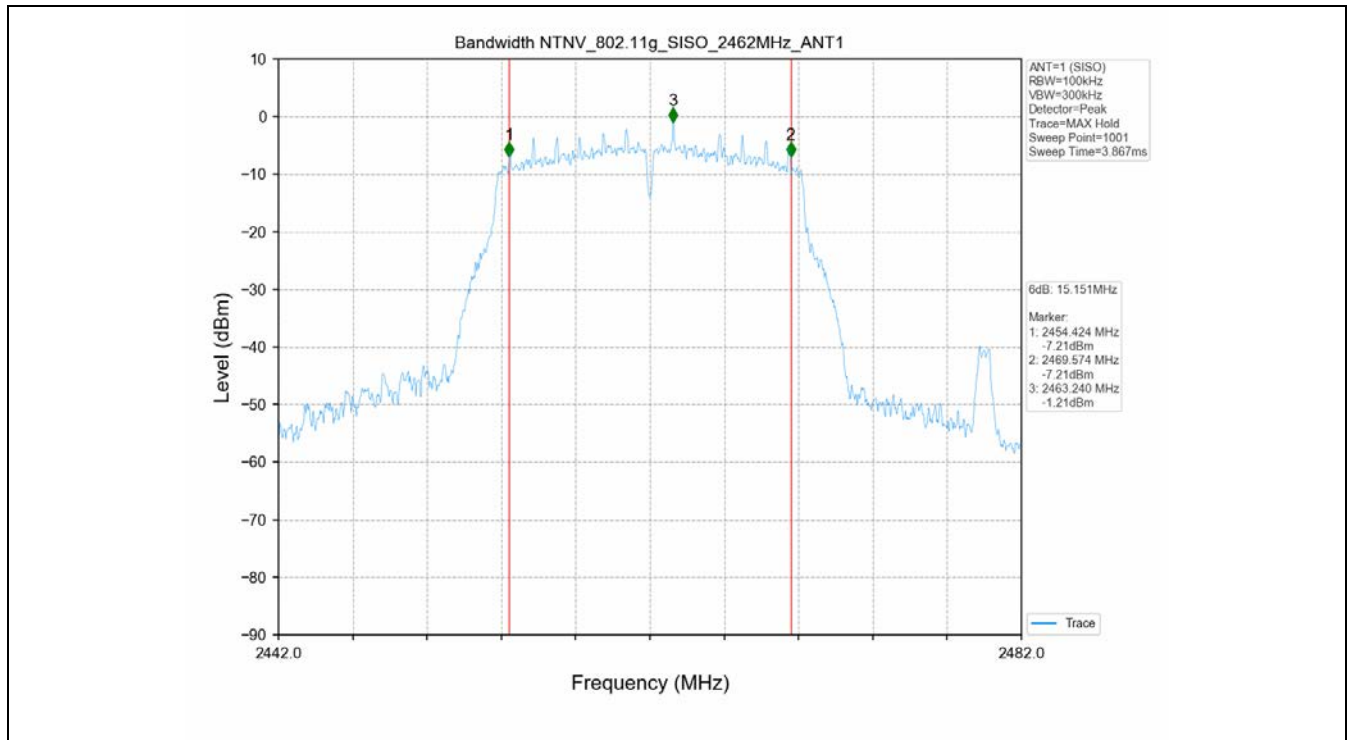
	2462	SISO	1	16.681	Only for Report Use
802.11n(HT20)	2412	SISO	1	17.647	Only for Report Use
	2437	SISO	1	17.651	Only for Report Use
	2462	SISO	1	17.641	Only for Report Use
	2422	SISO	1	36.207	Only for Report Use
802.11n(HT40)	2437	SISO	1	36.220	Only for Report Use
	2452	SISO	1	36.202	Only for Report Use

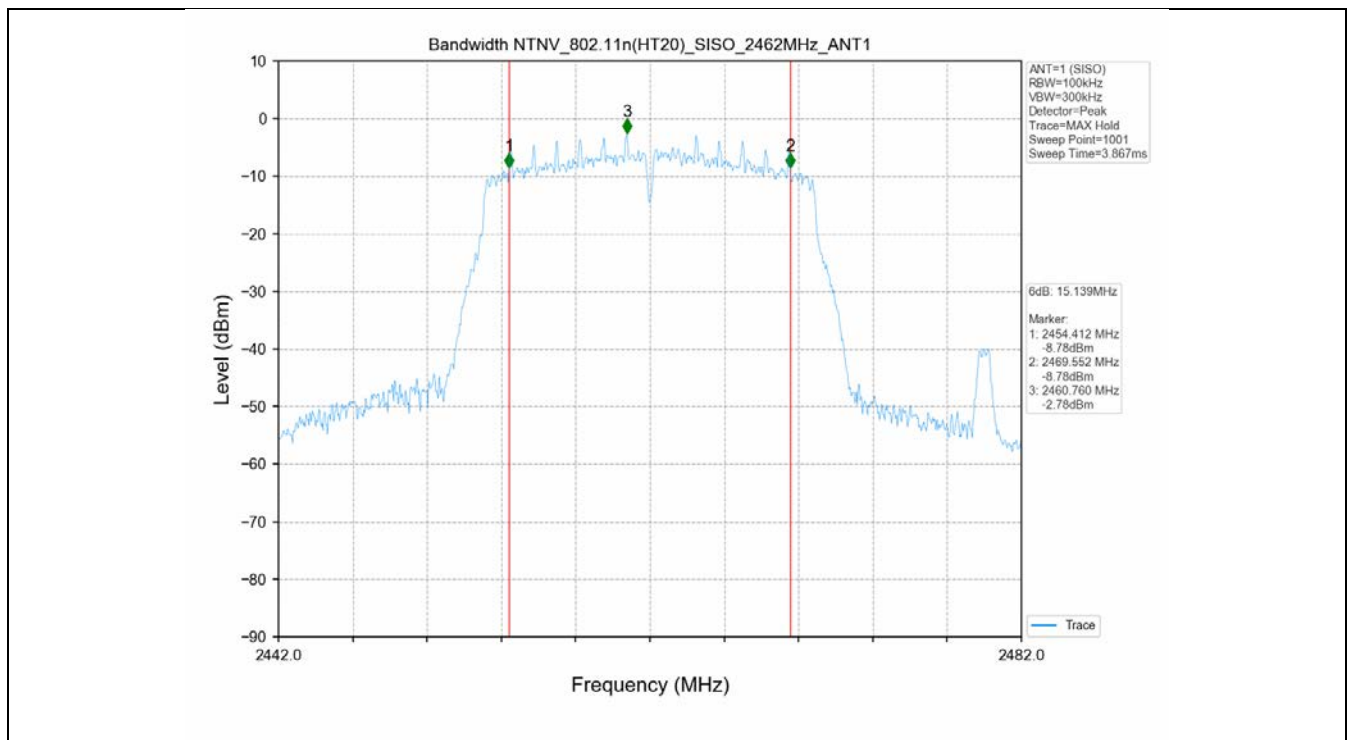
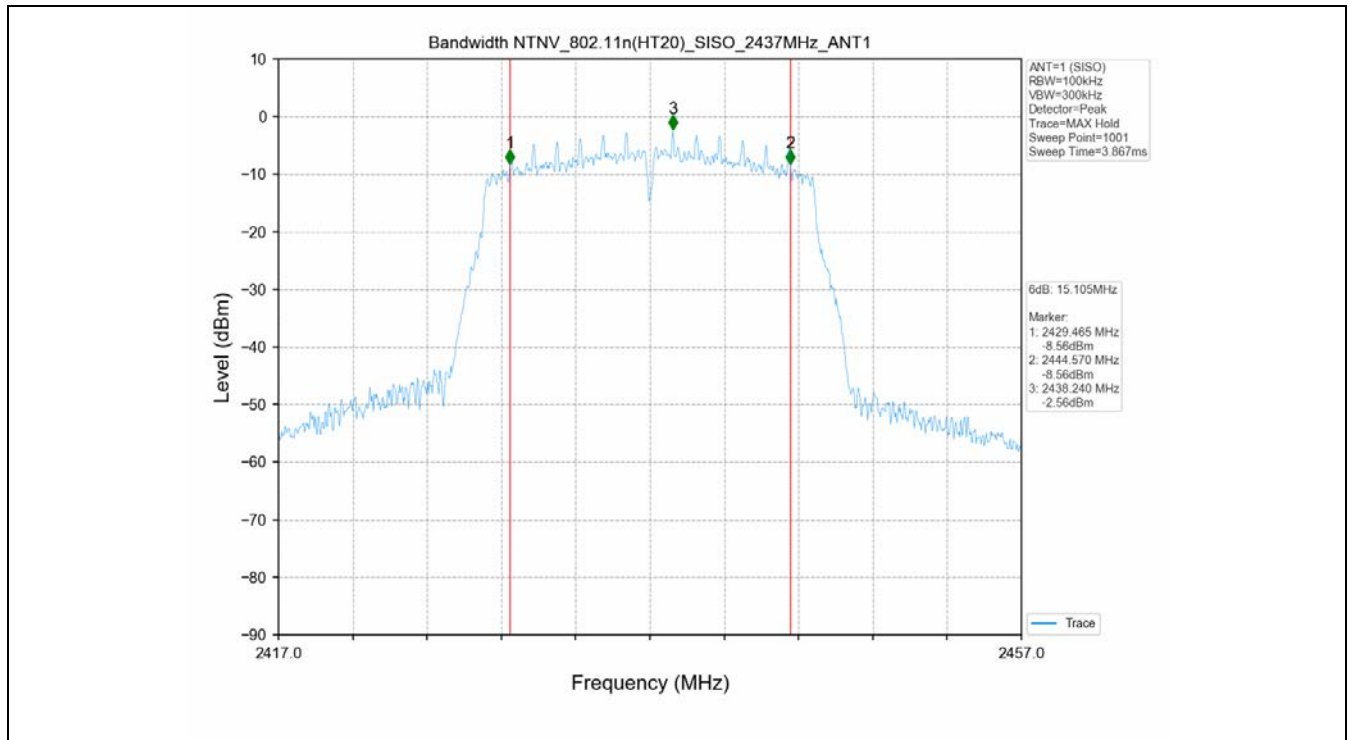
2.2 Test Graph - 6dB Bandwidth

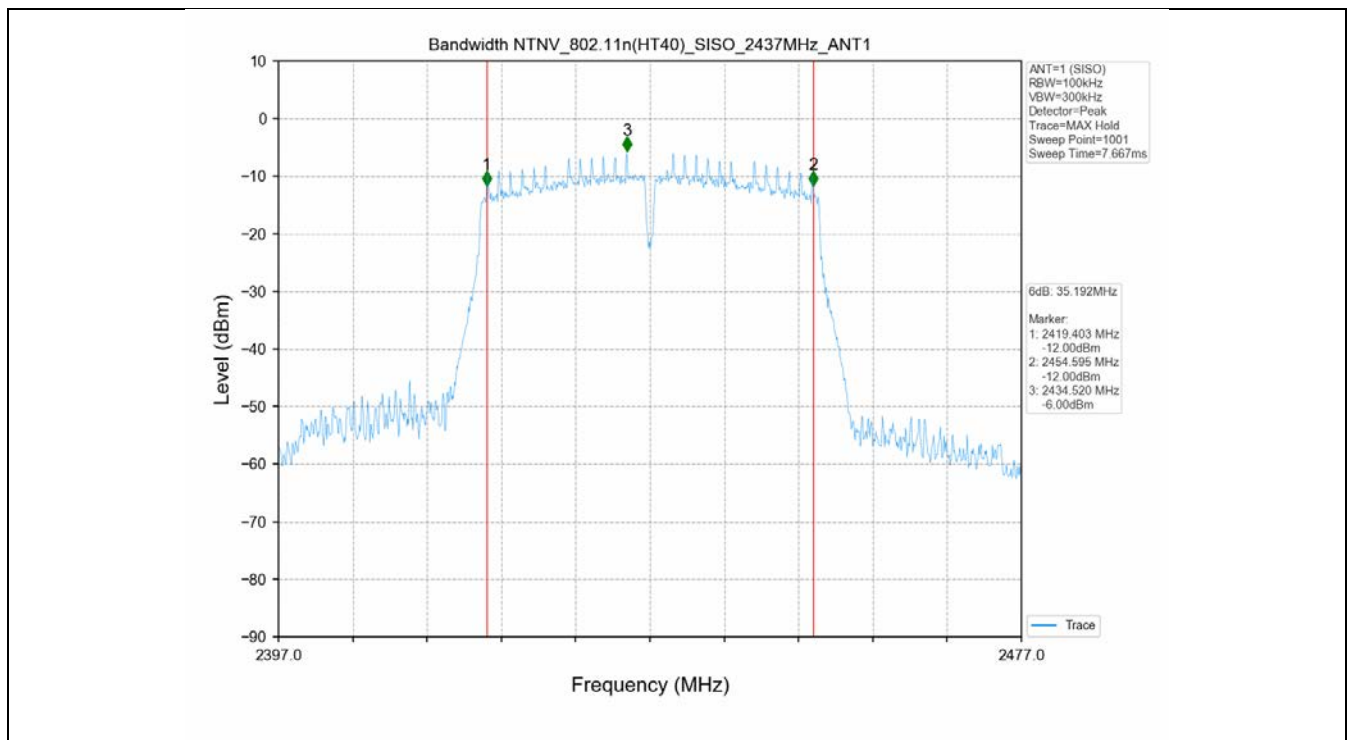
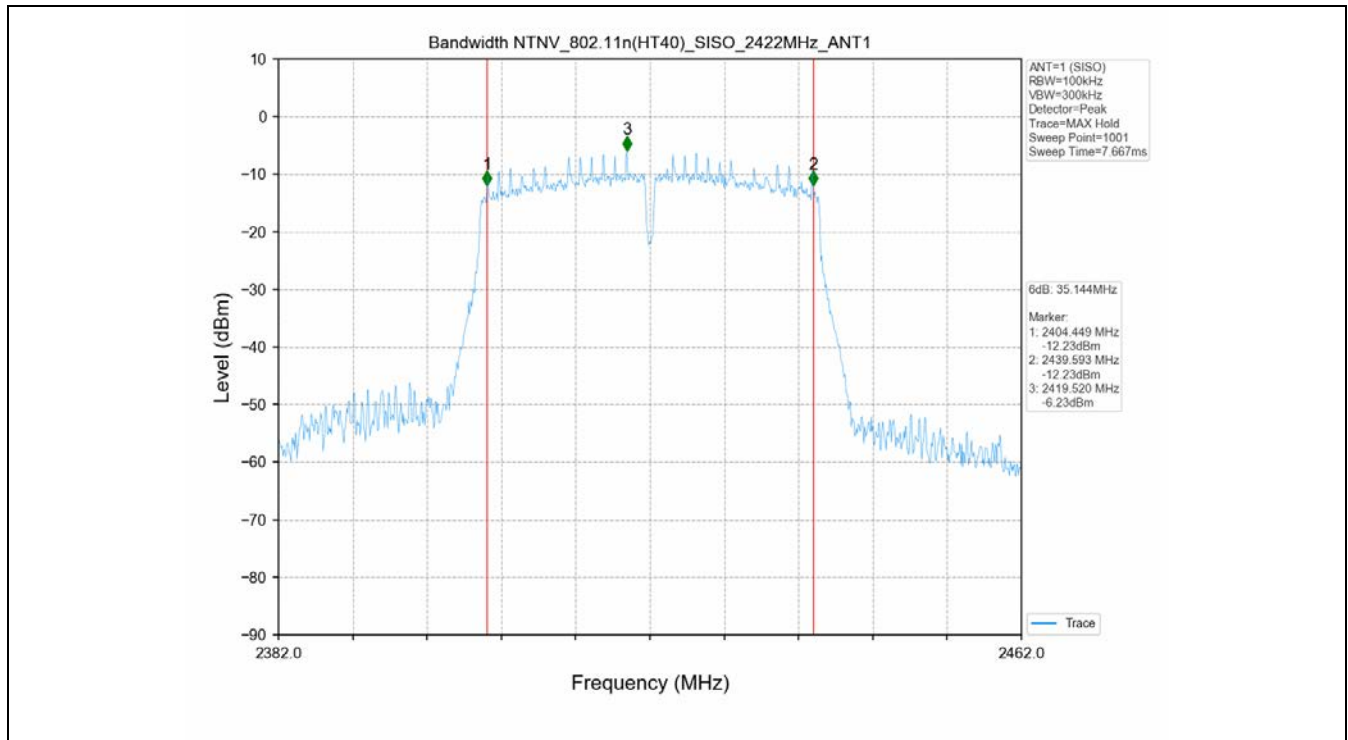


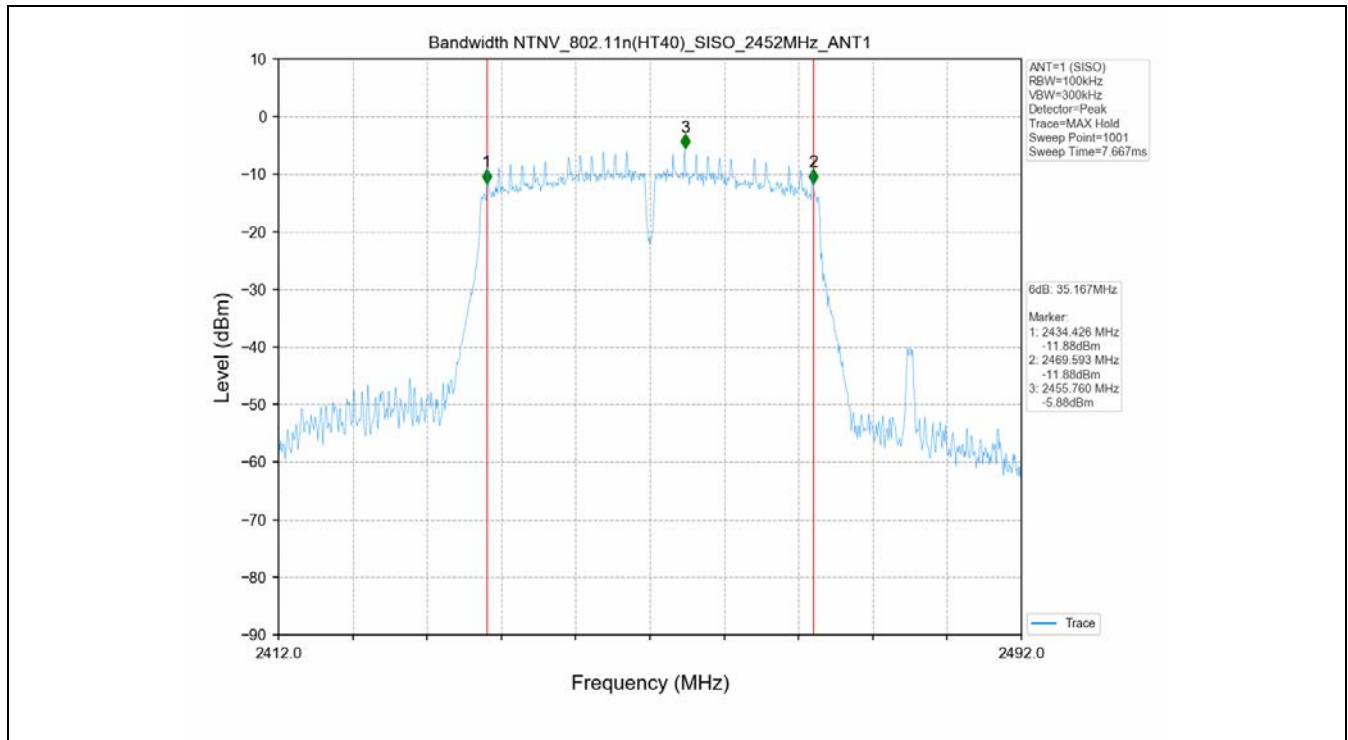




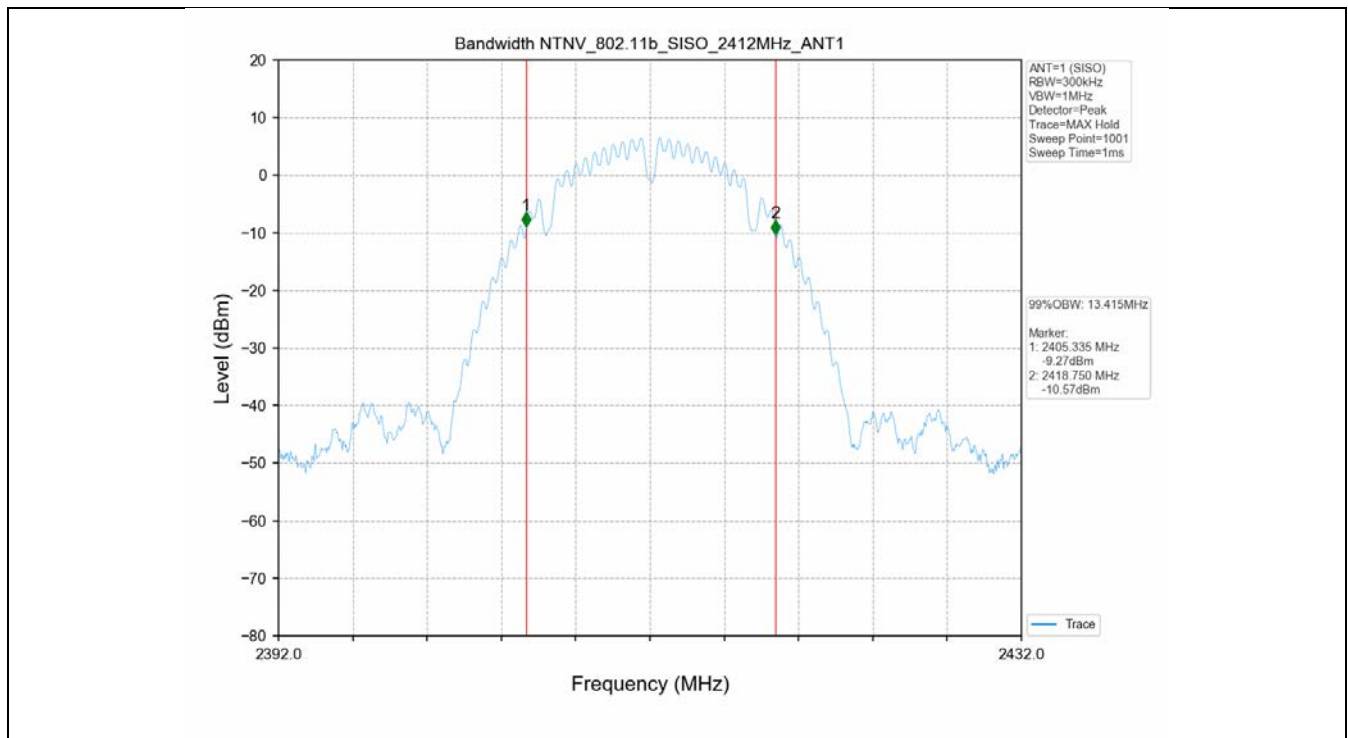


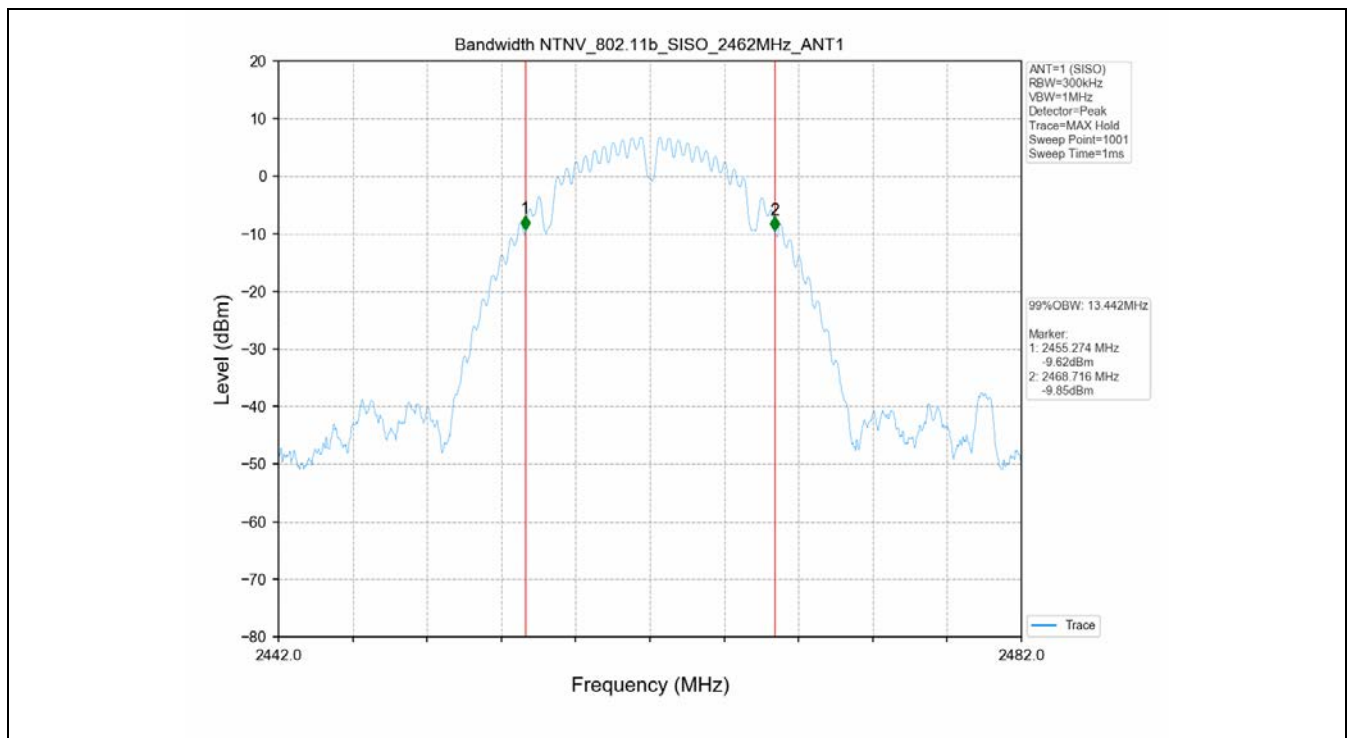
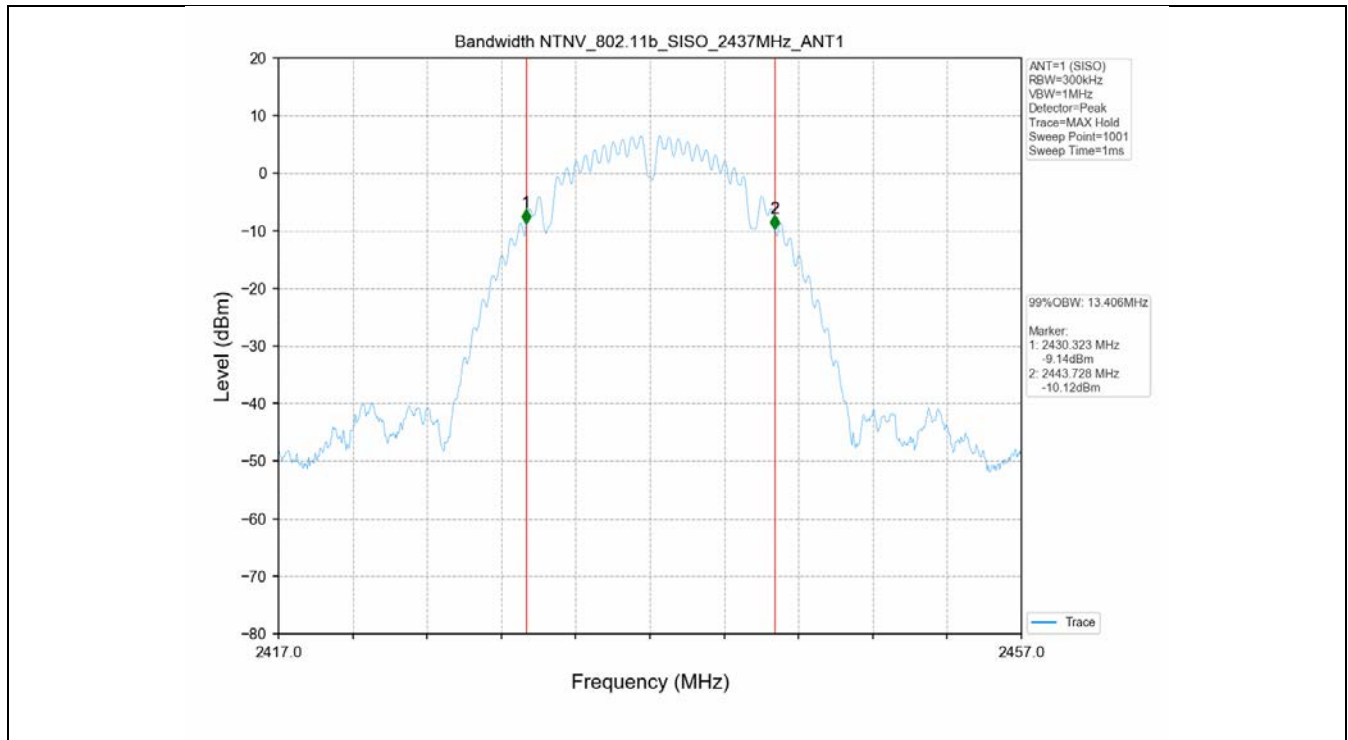


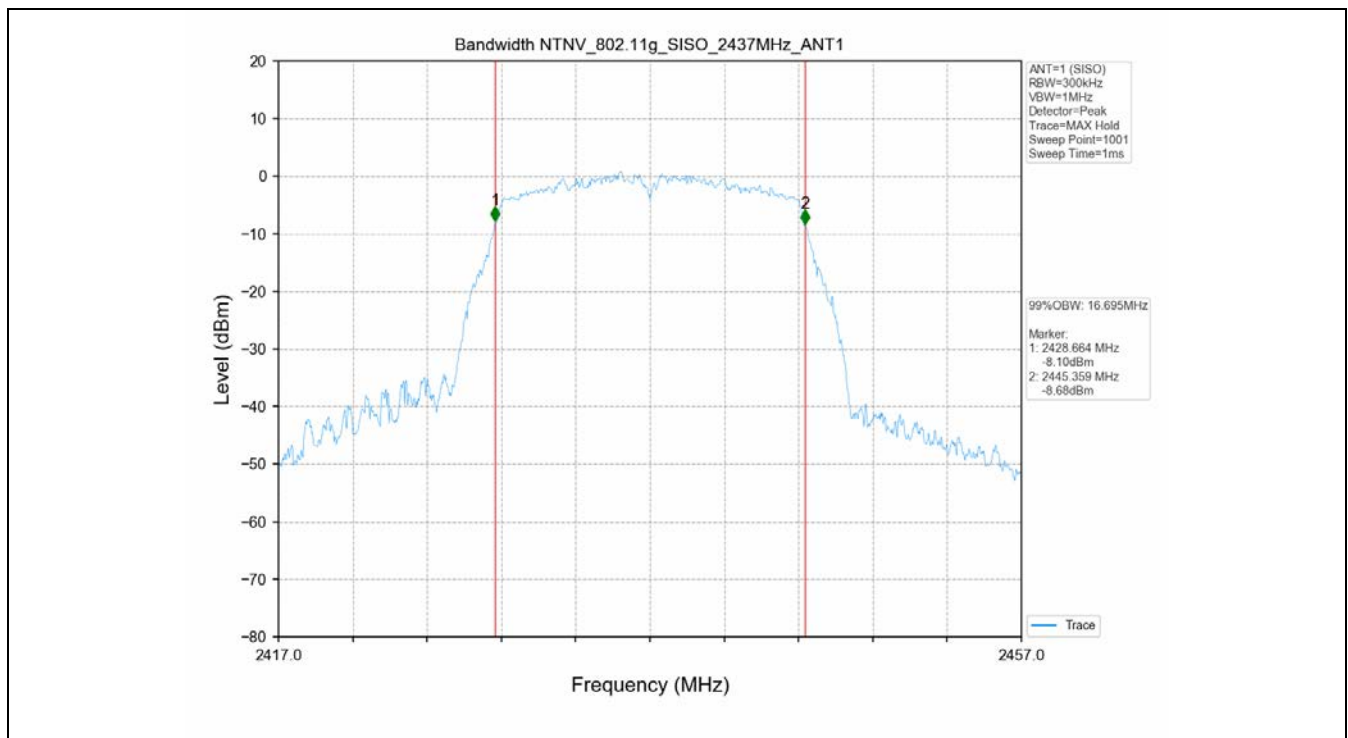
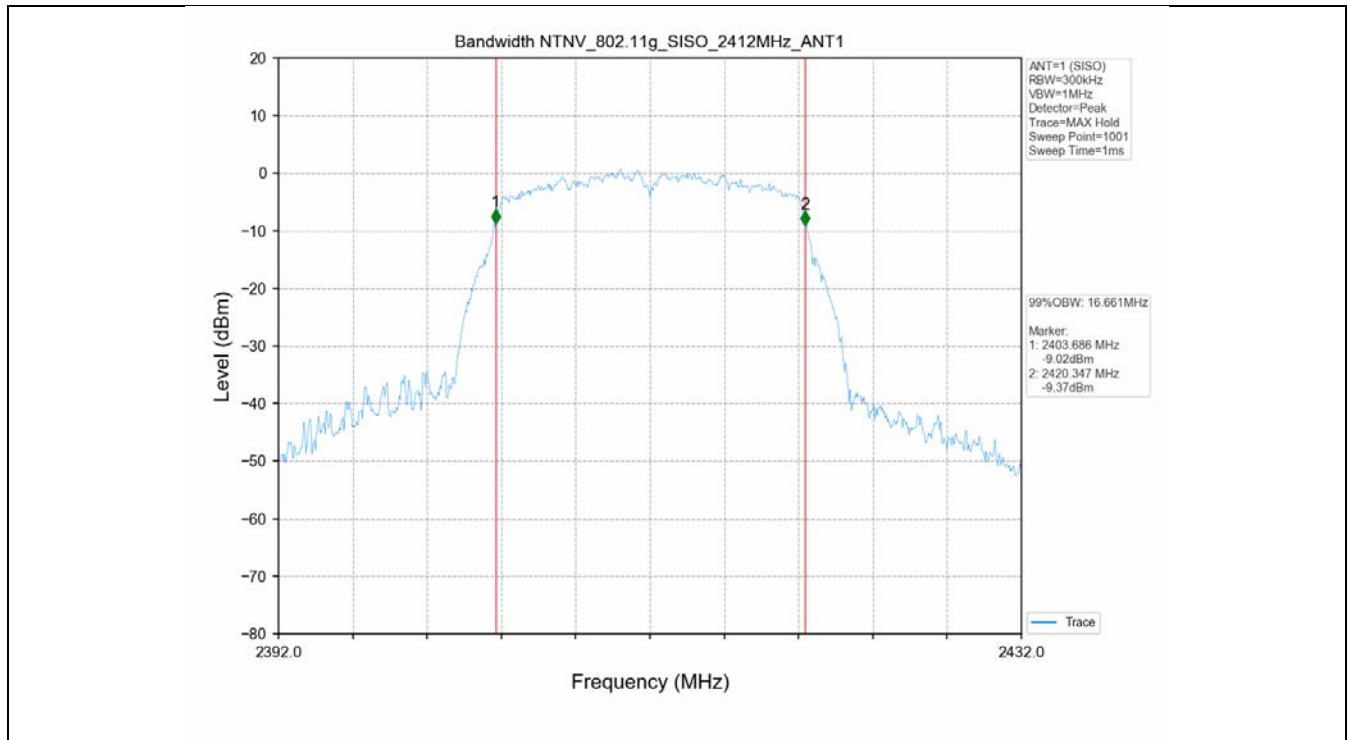


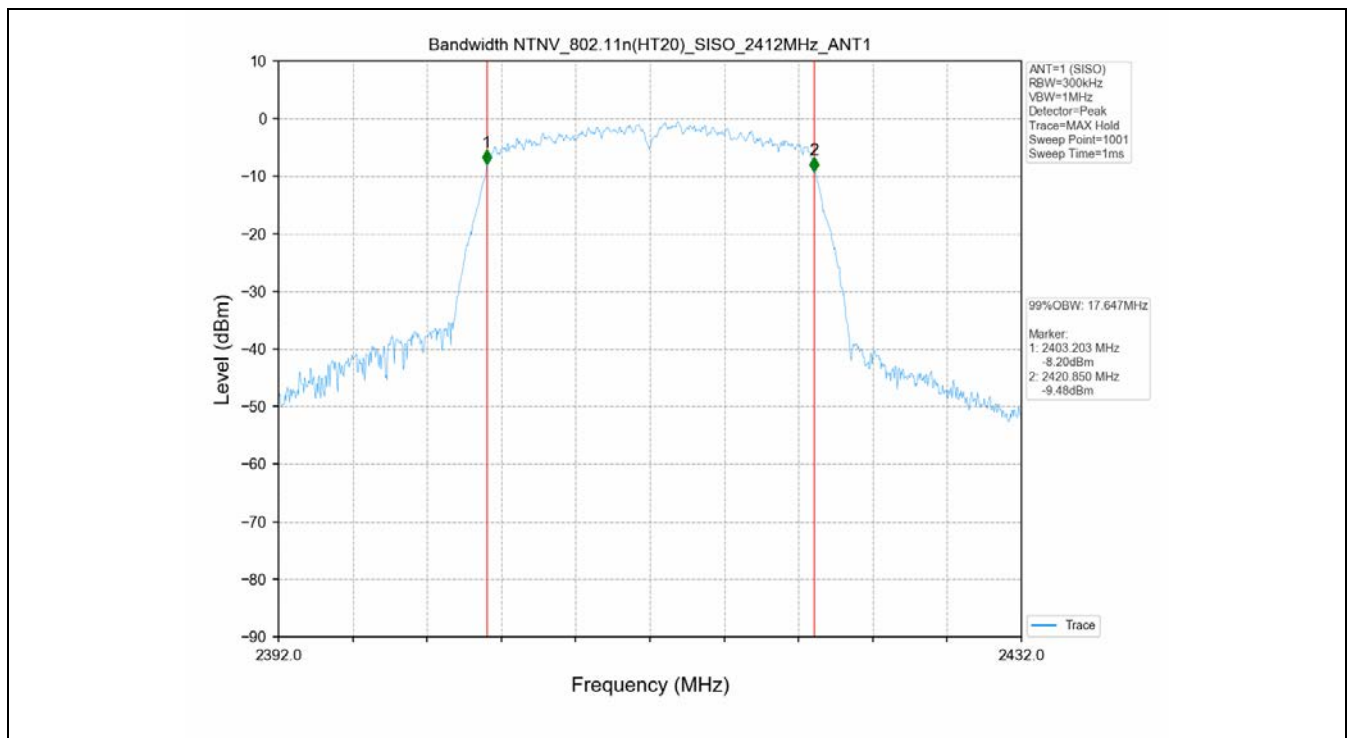
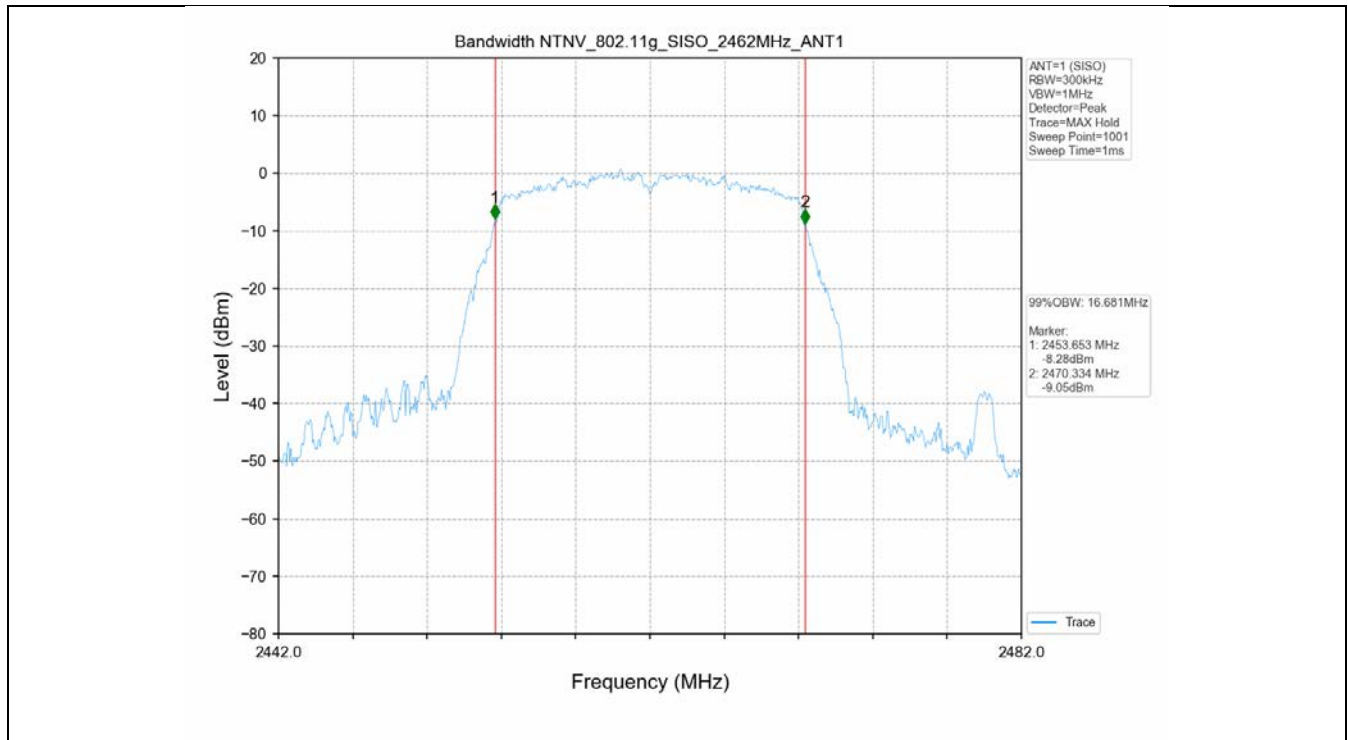


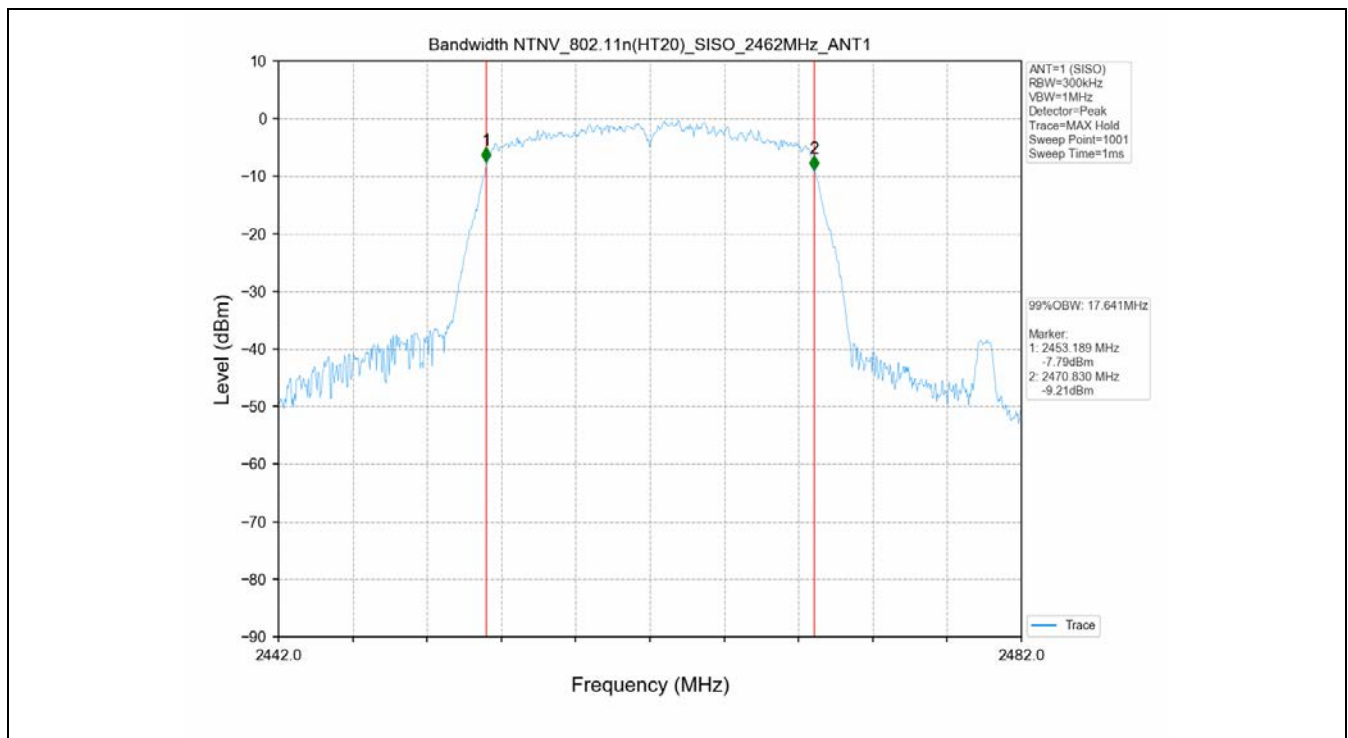
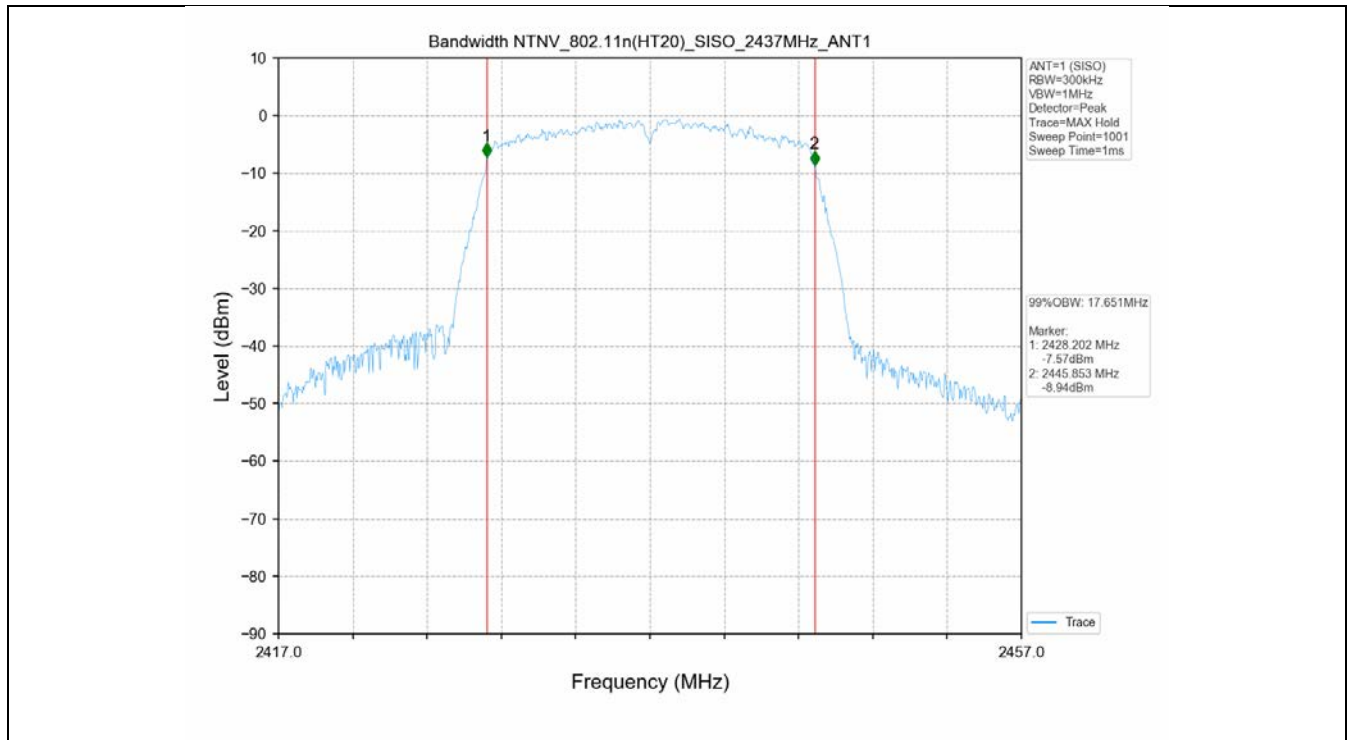
2.3 Test Graph - 99% Occupied Bandwidth

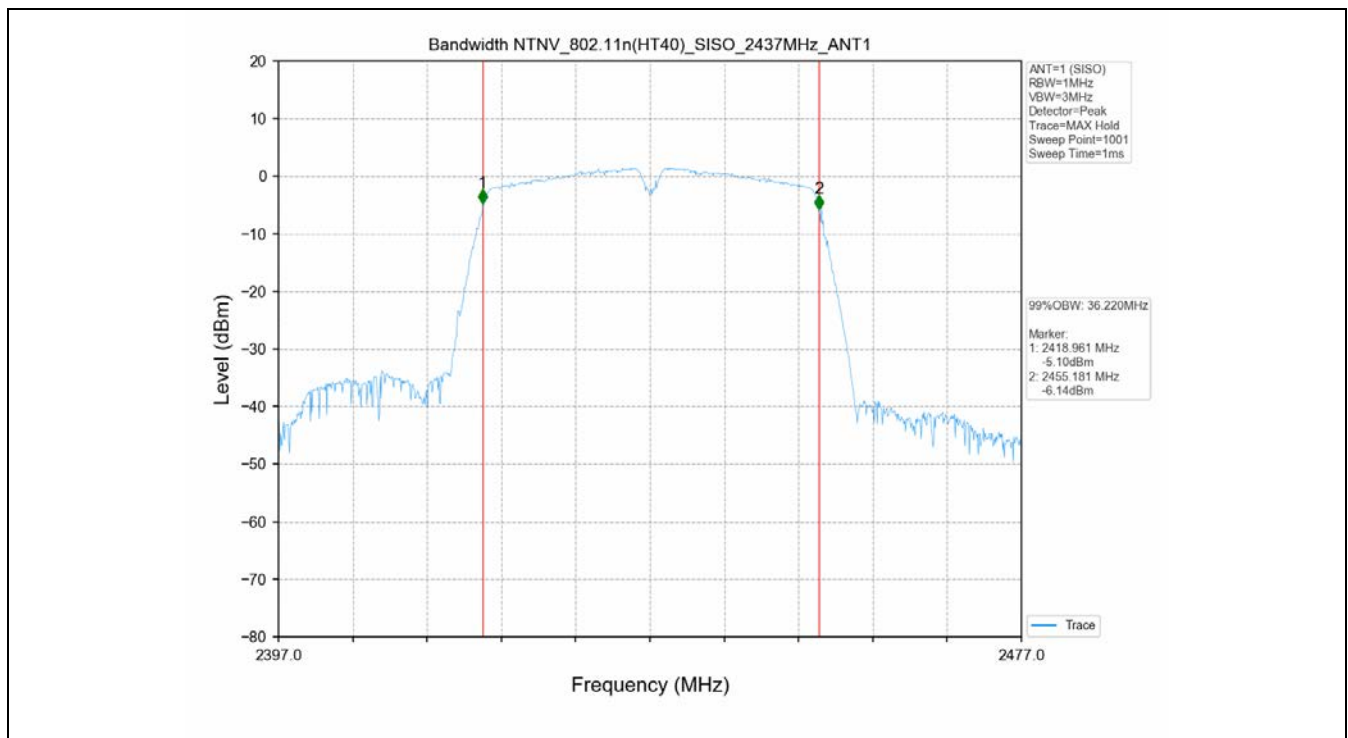
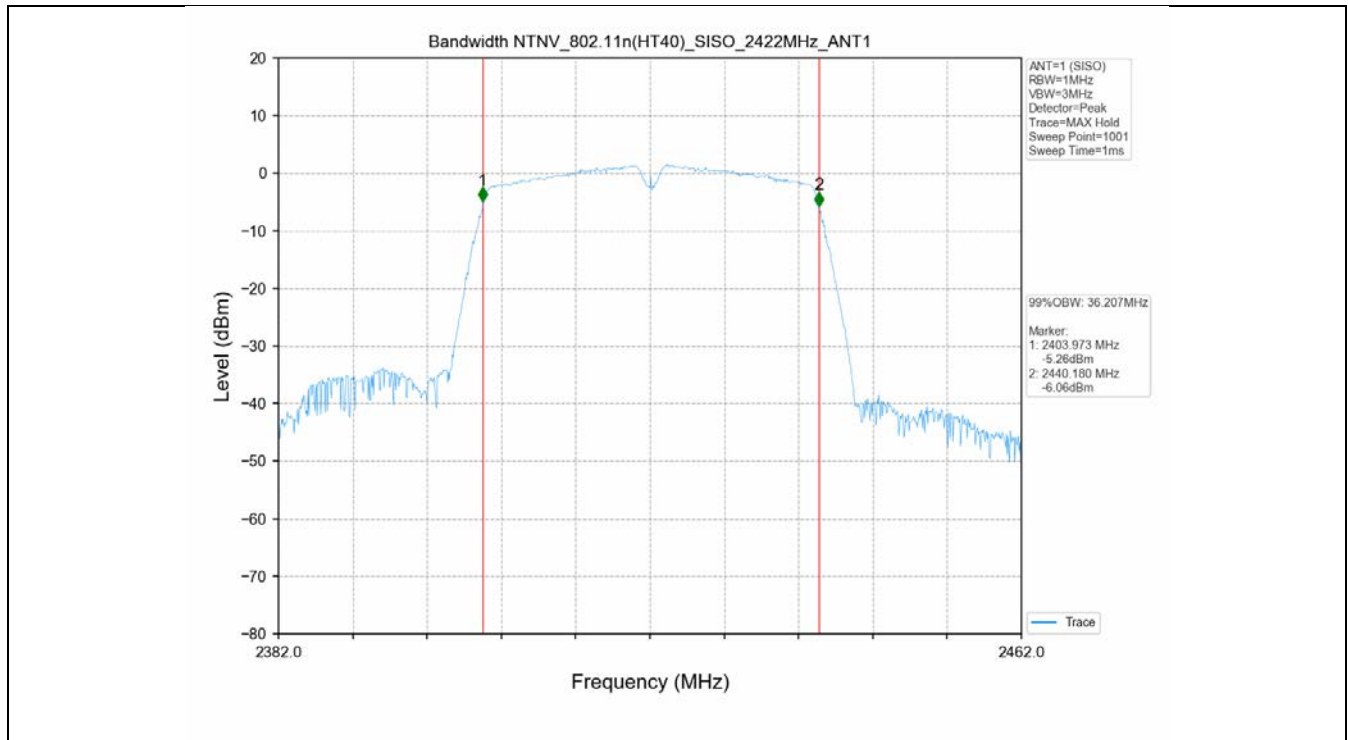


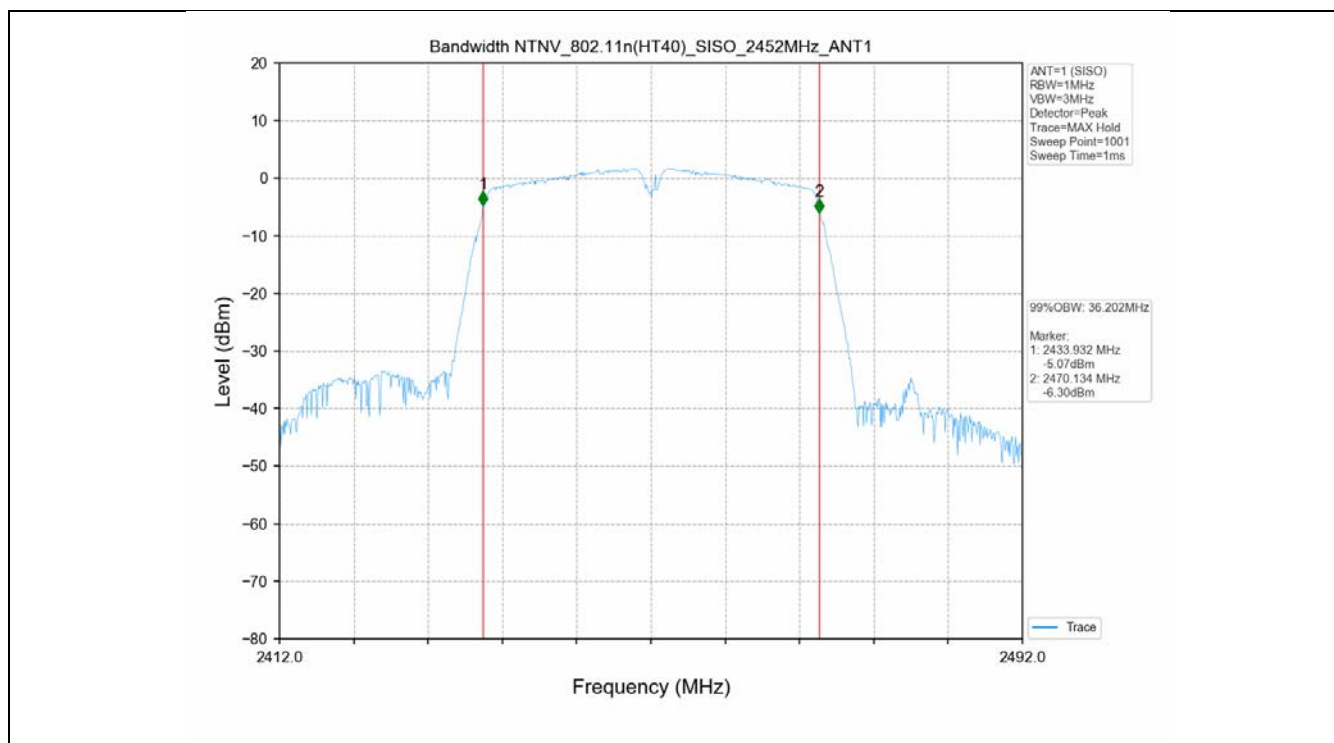










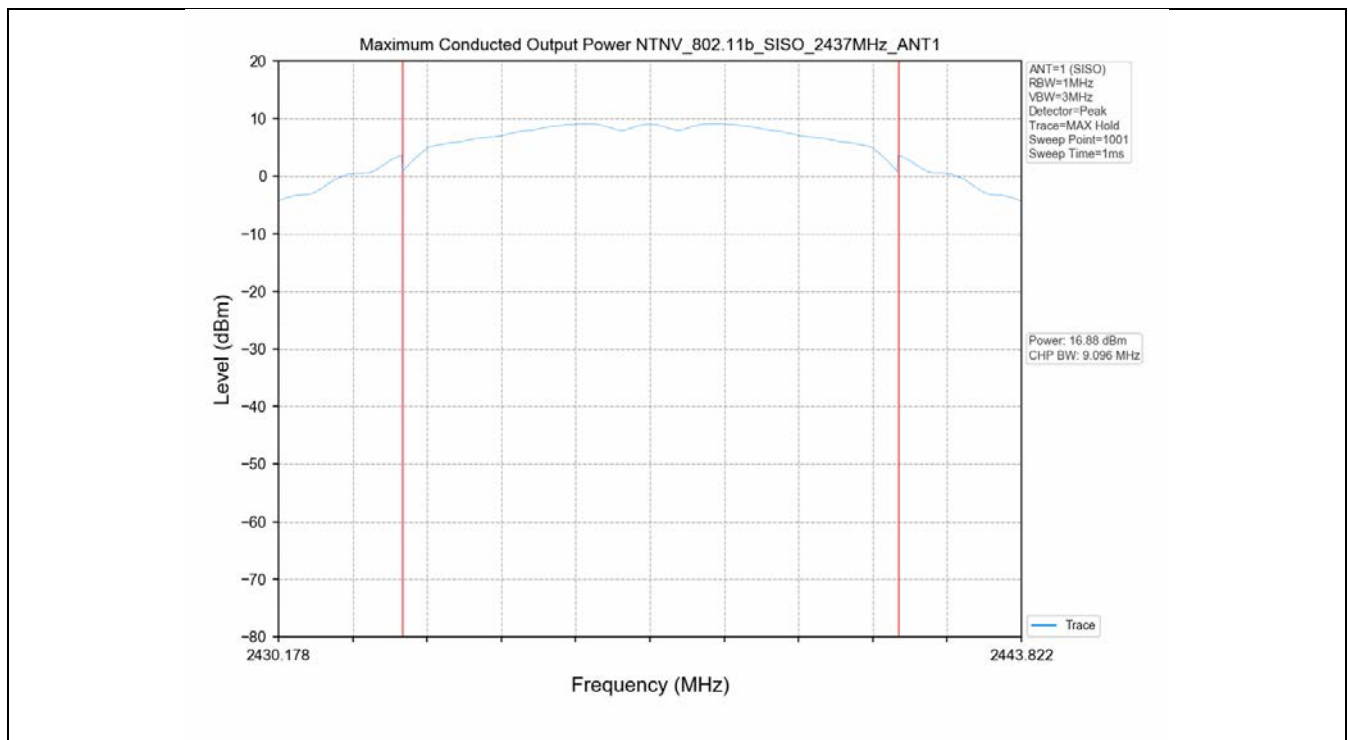
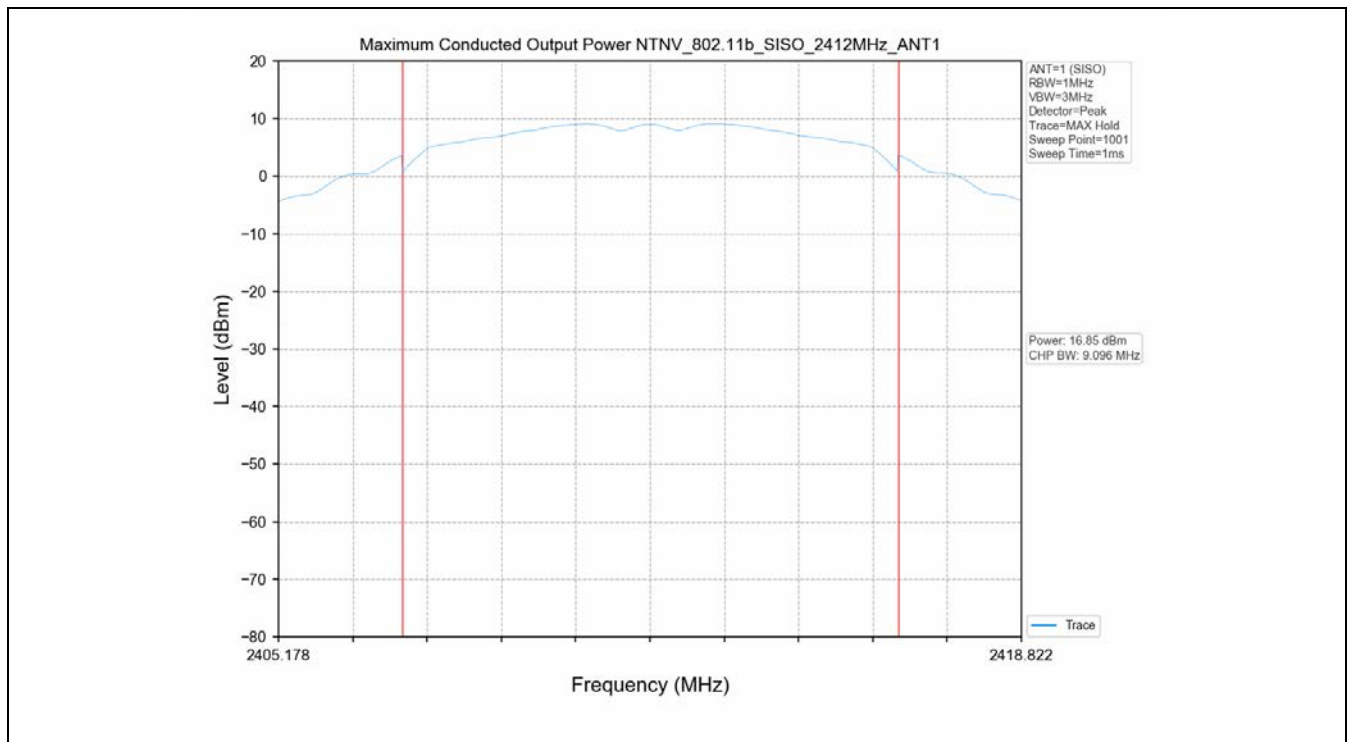


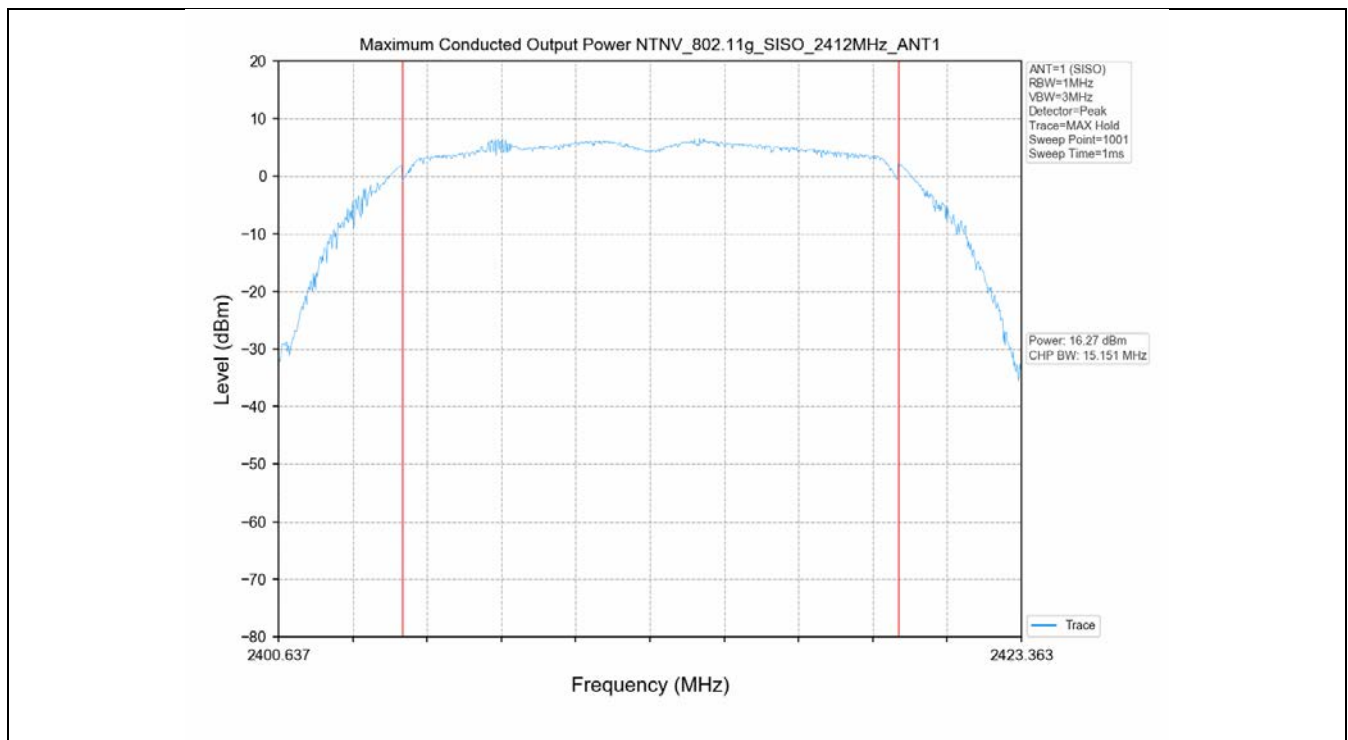
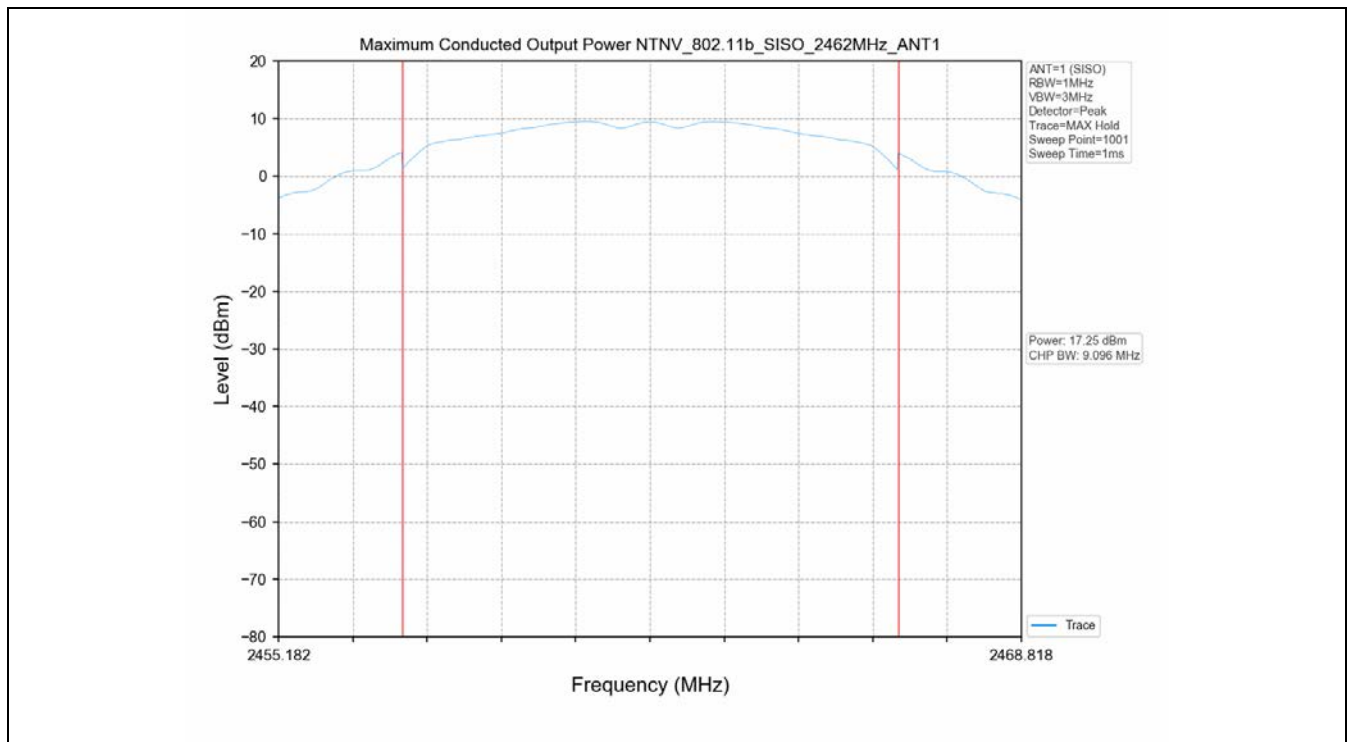
3. Maximum Conducted Output Power

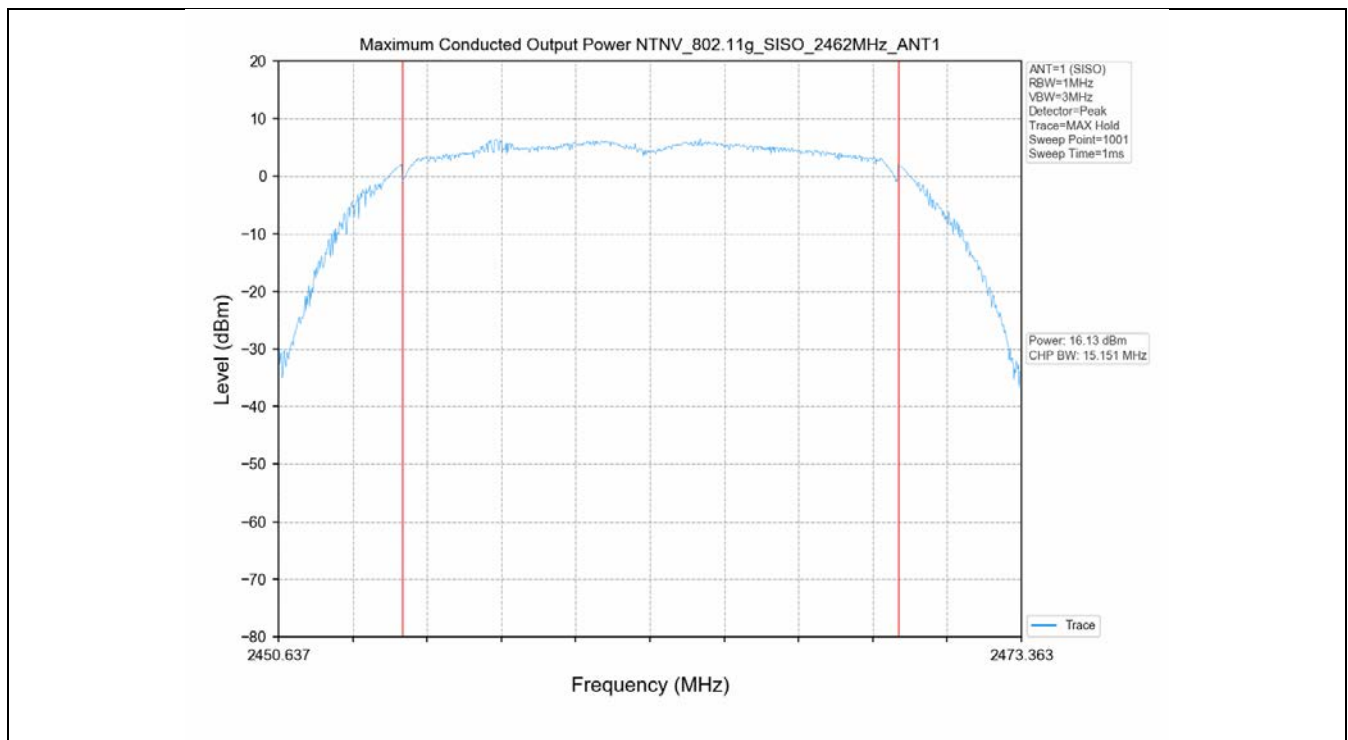
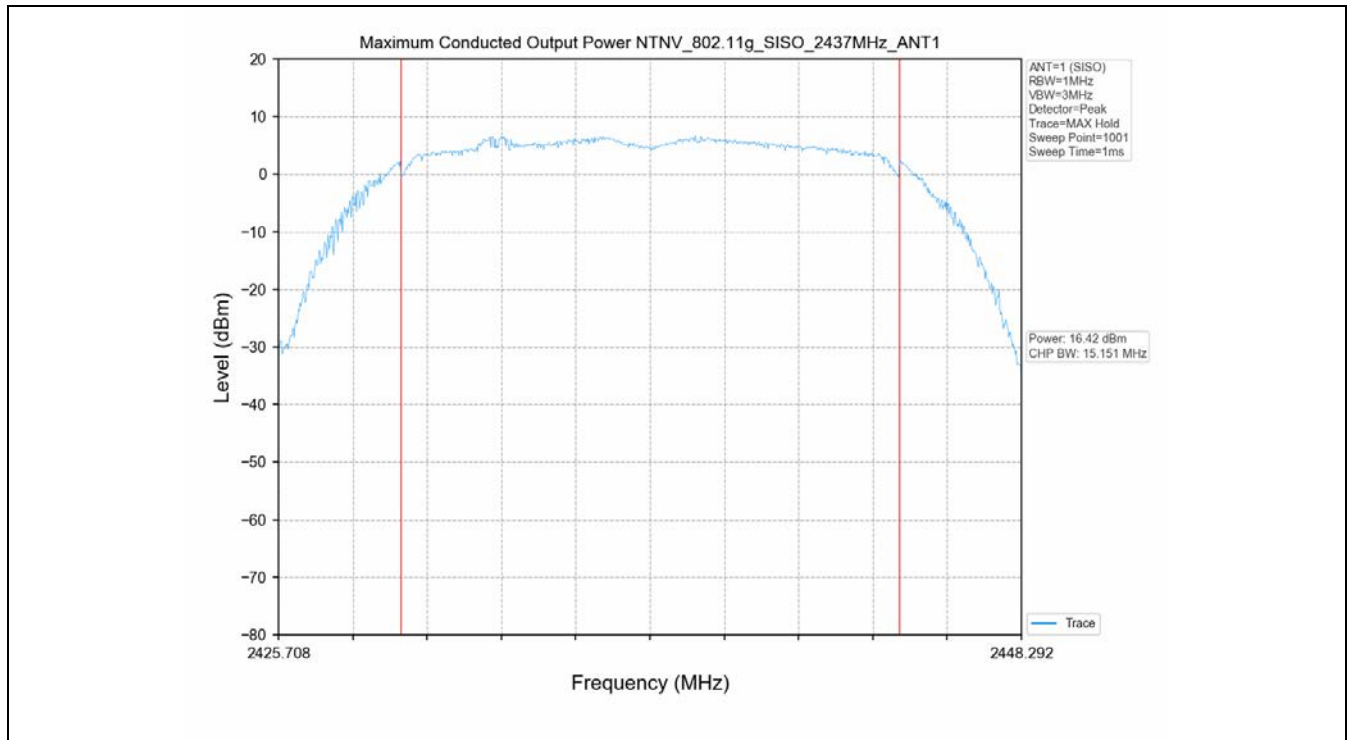
3.1 Test Result

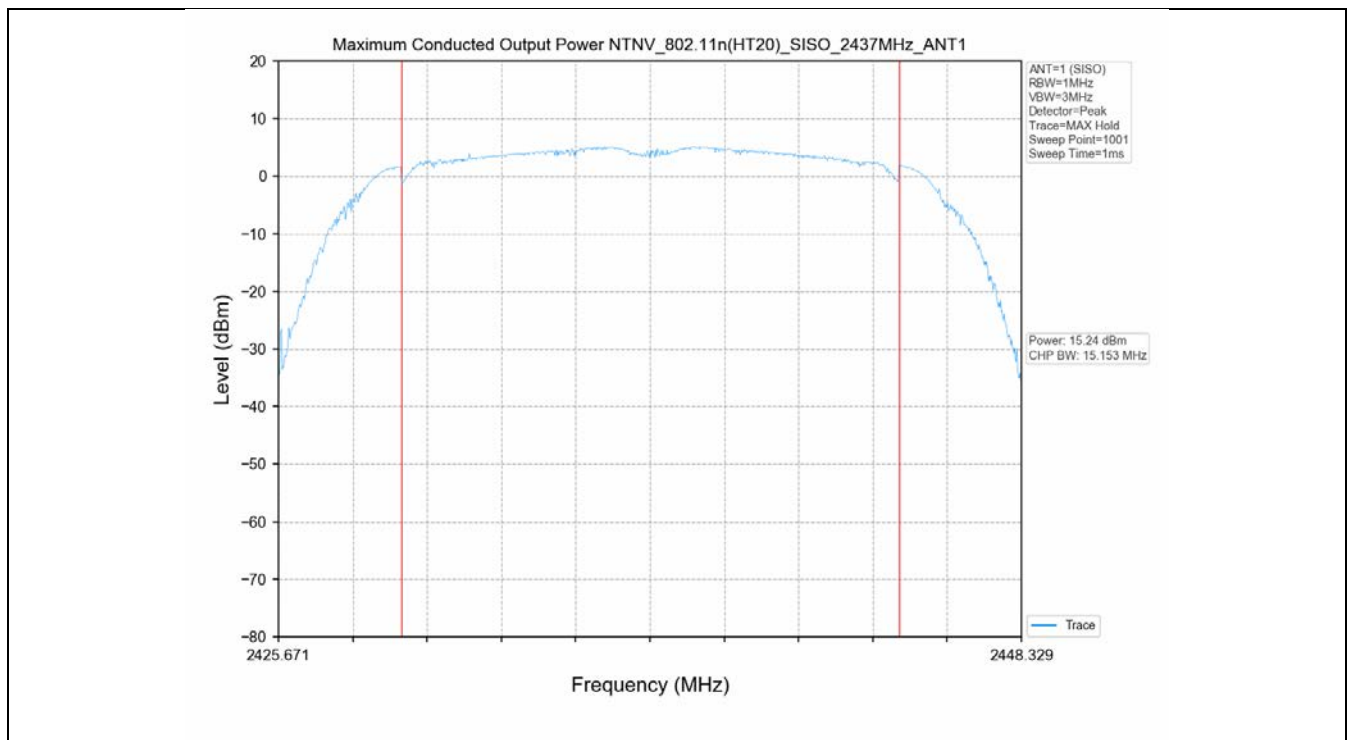
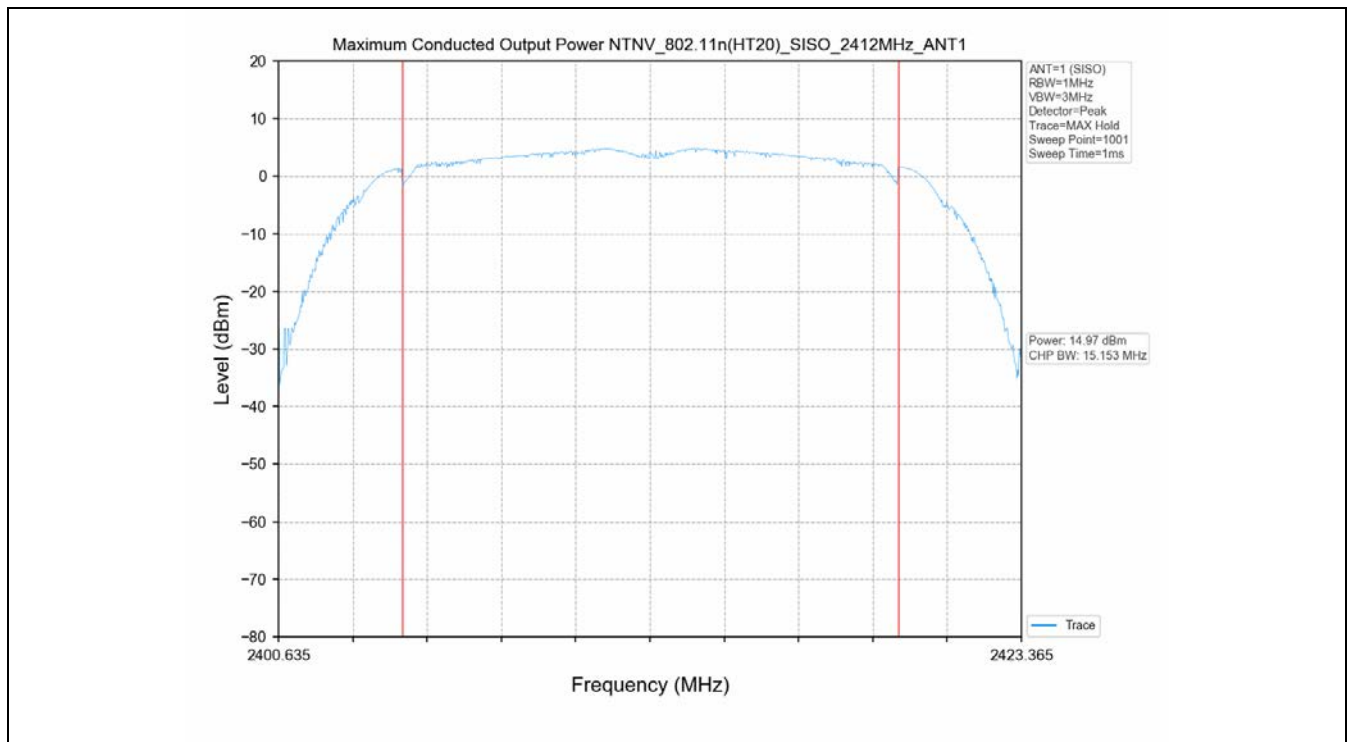
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	16.85	30	PASS
	2437	SISO	16.88	30	PASS
	2462	SISO	17.25	30	PASS
802.11g	2412	SISO	16.27	30	PASS
	2437	SISO	16.42	30	PASS
	2462	SISO	16.13	30	PASS
802.11n(HT20)	2412	SISO	14.97	30	PASS
	2437	SISO	15.24	30	PASS
	2462	SISO	15.29	30	PASS
802.11n(HT40)	2422	SISO	14.72	30	PASS
	2437	SISO	14.83	30	PASS
	2452	SISO	15.09	30	PASS

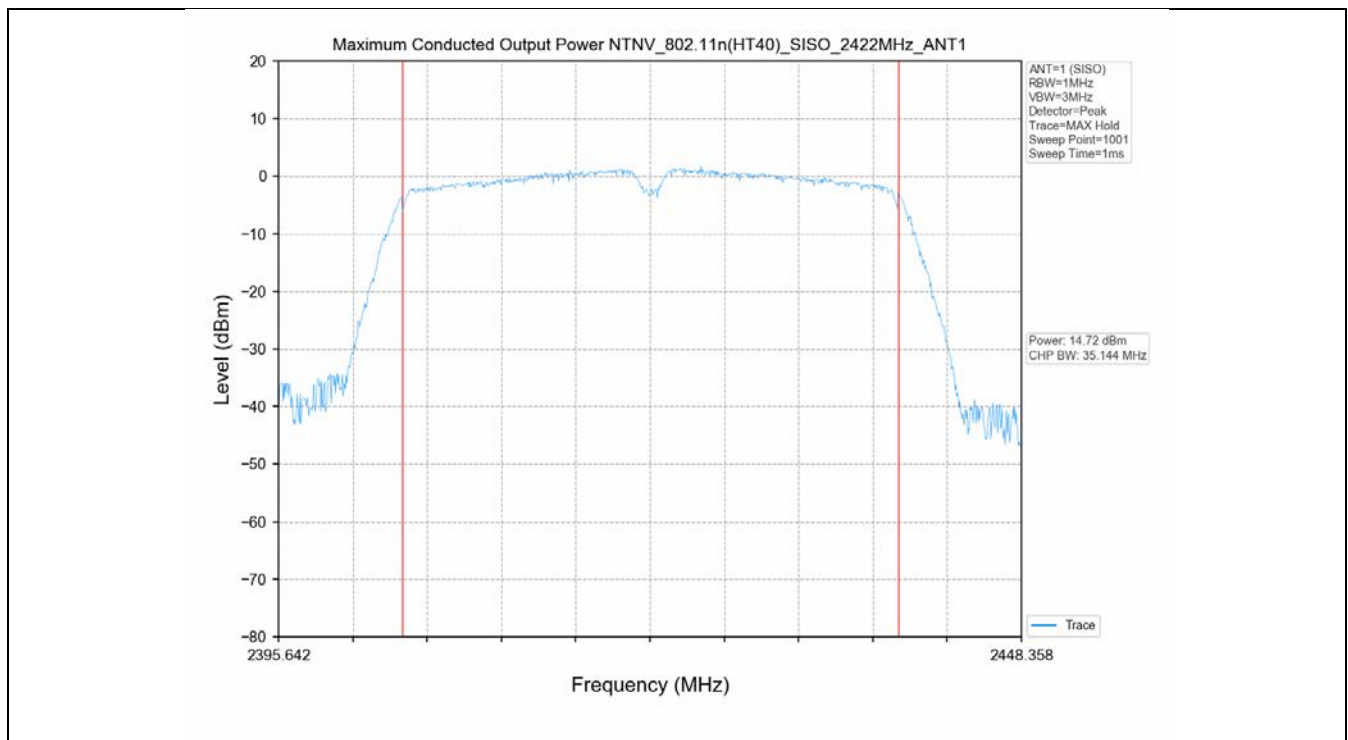
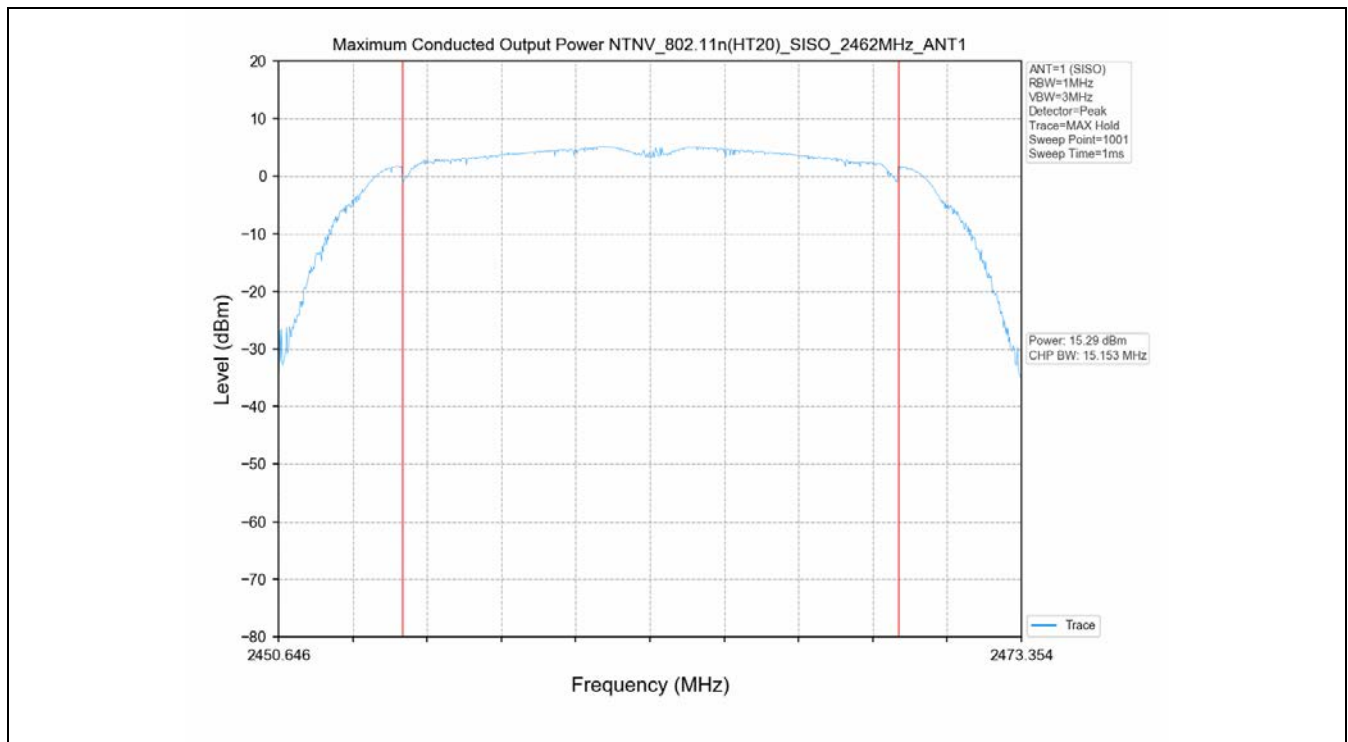
3.2 Test Graph

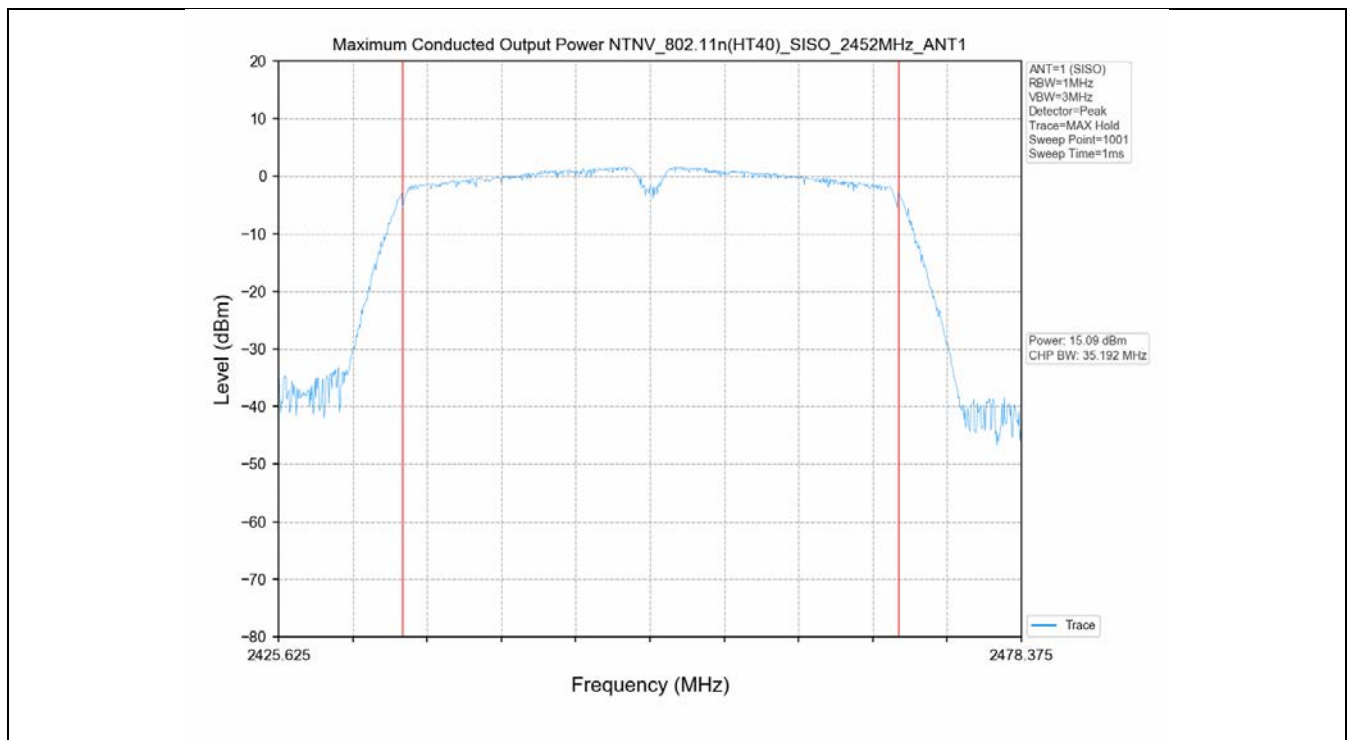
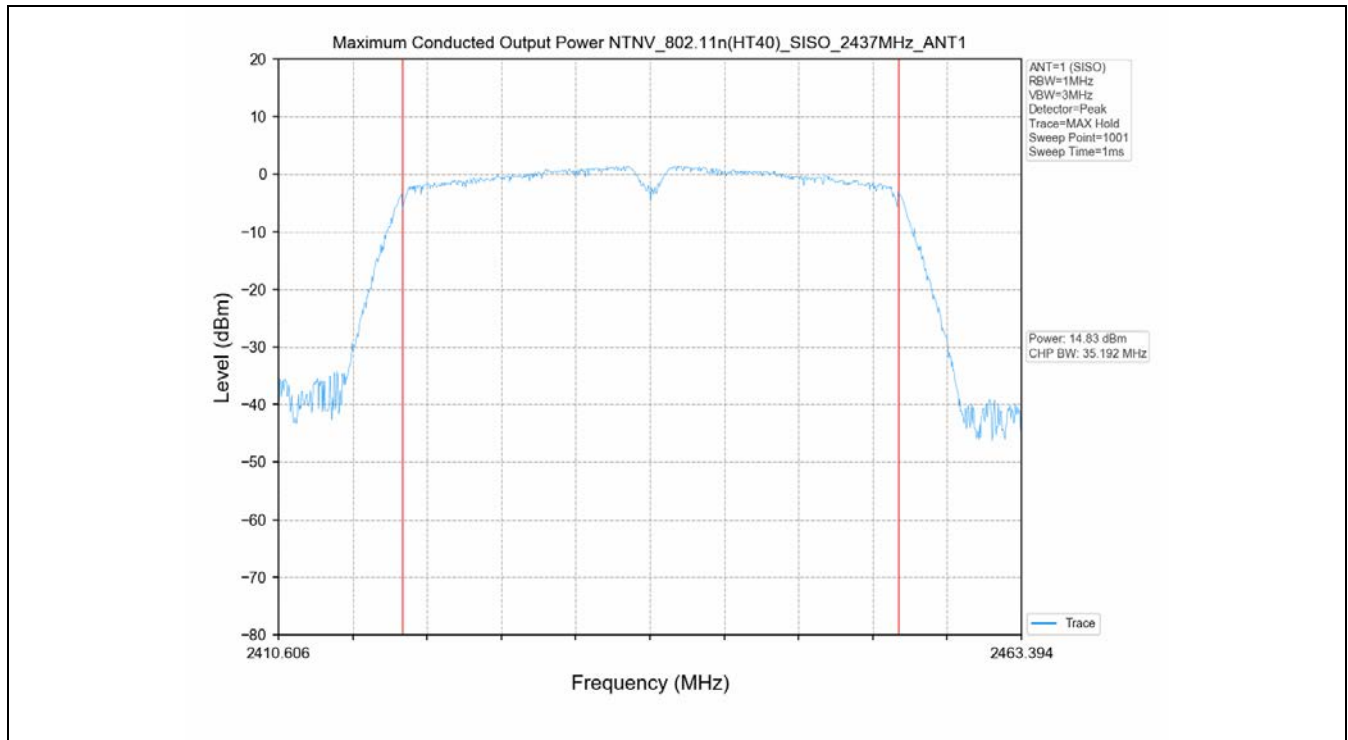












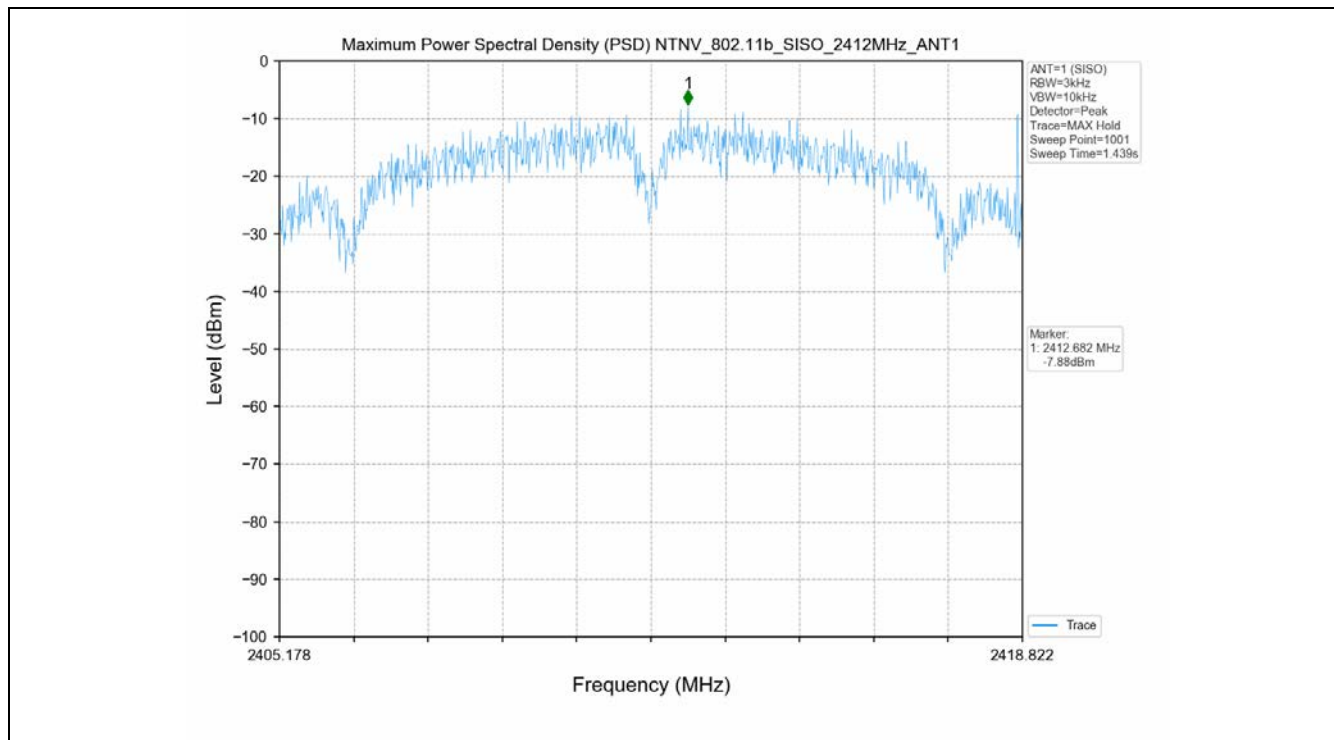


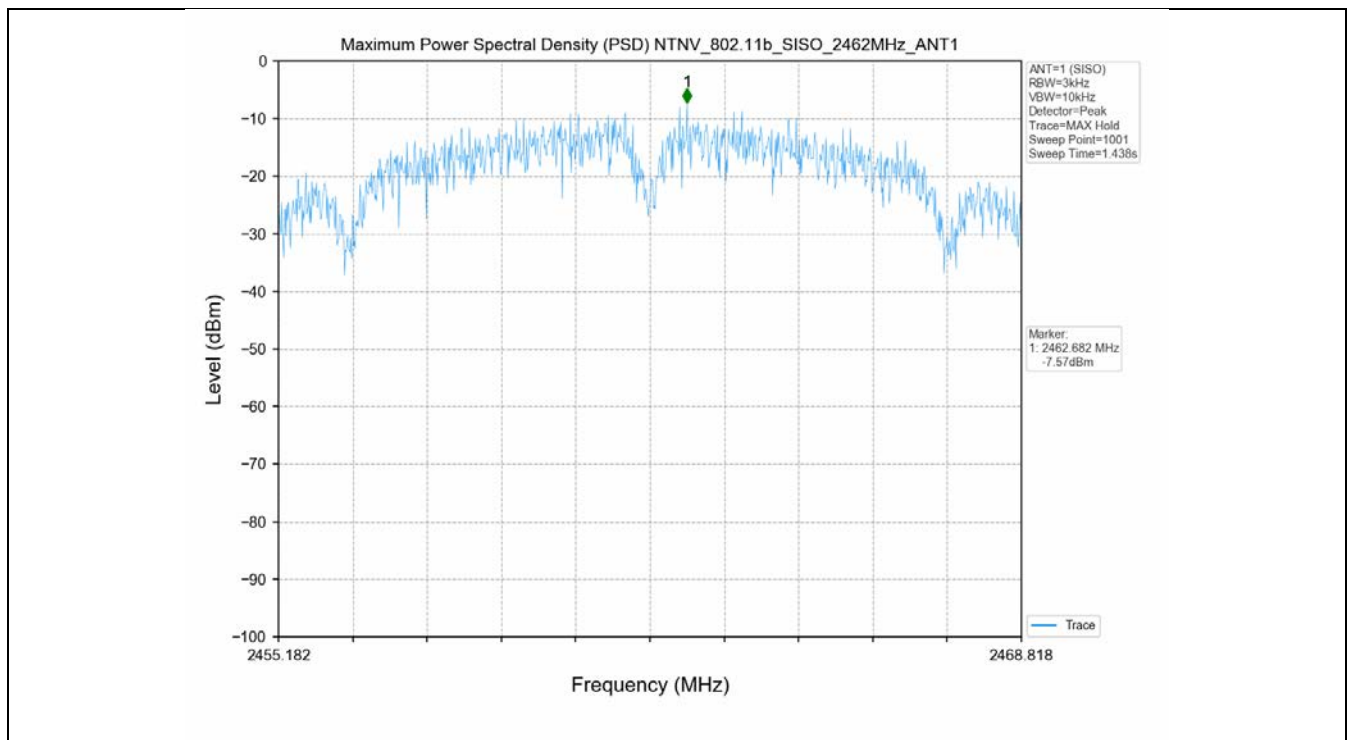
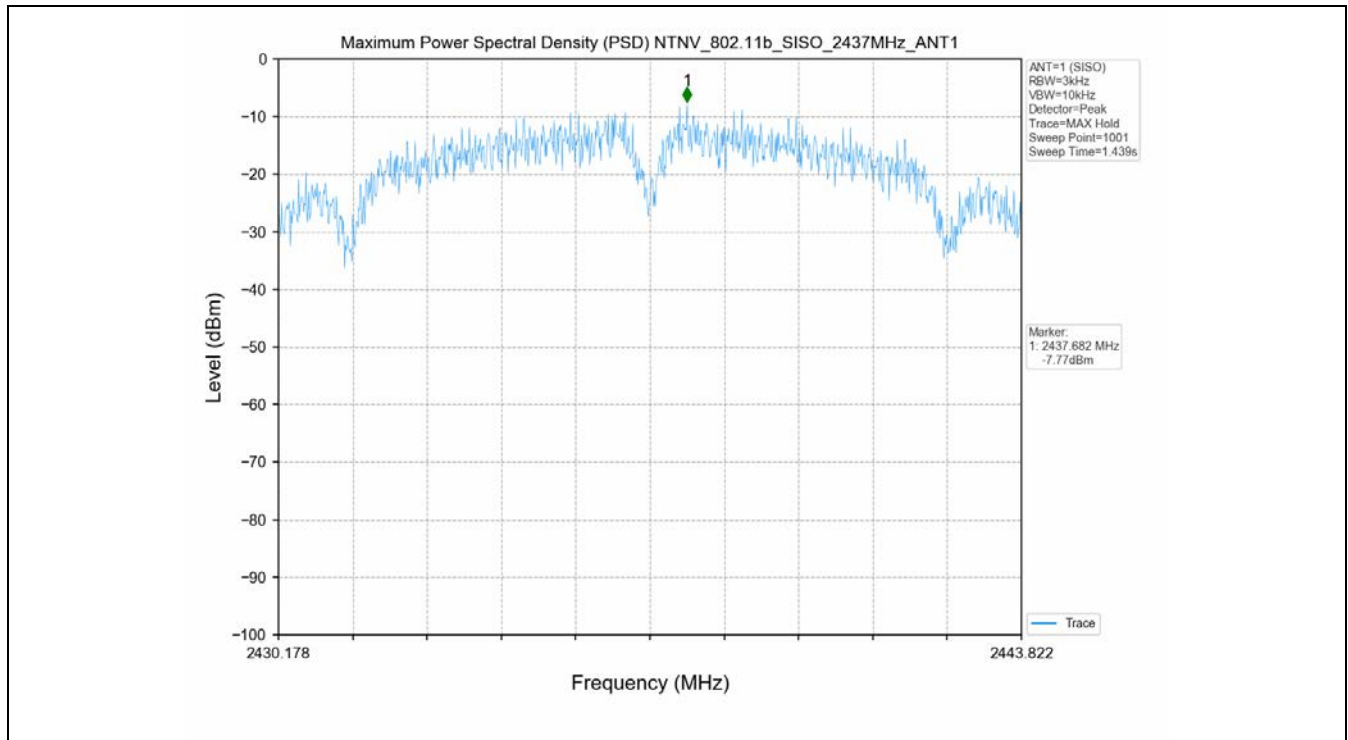
4. Maximum Power Spectral Density (PSD)

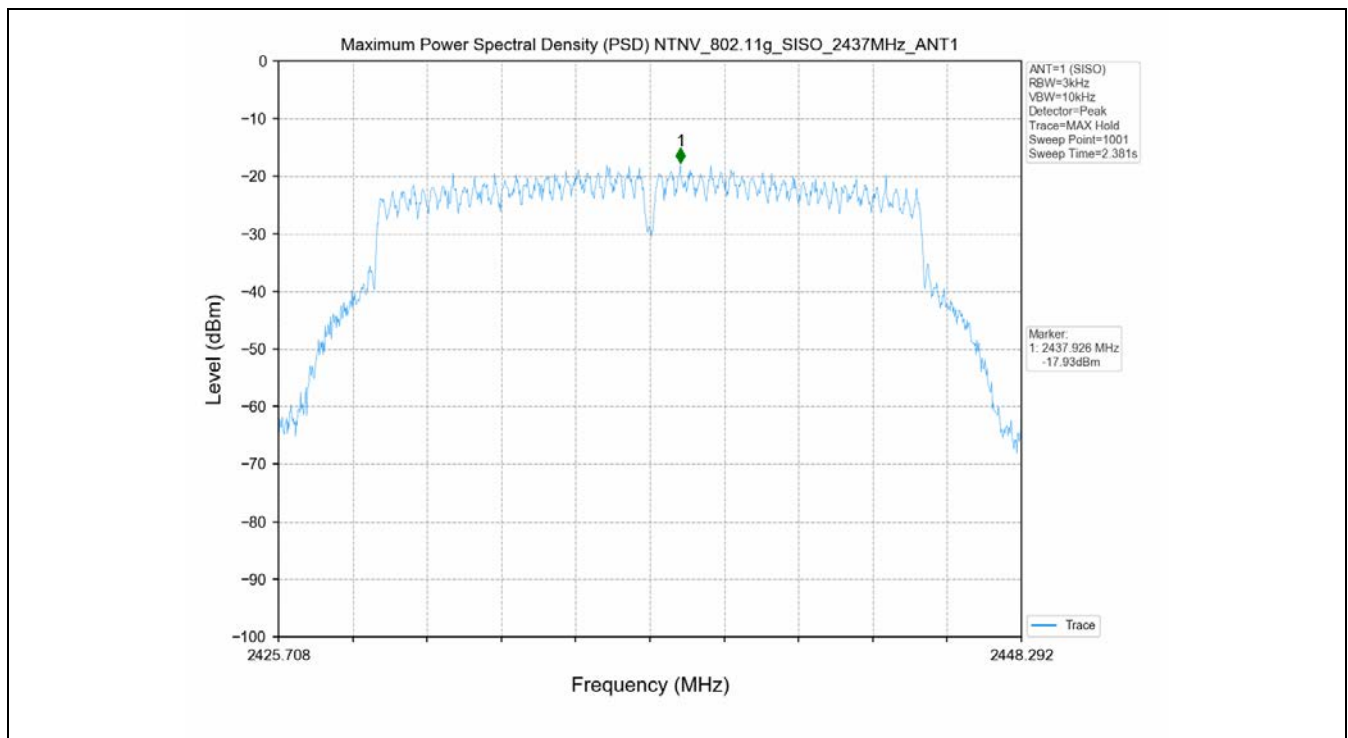
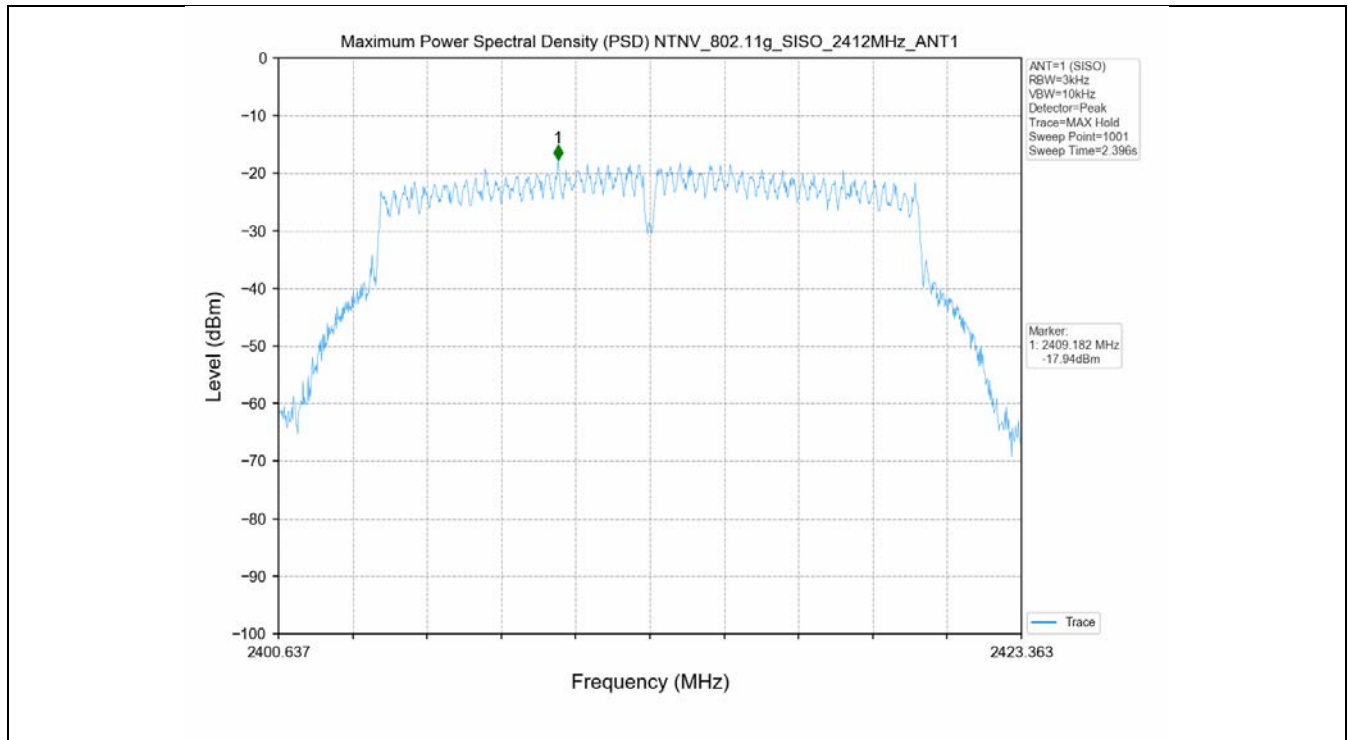
4.1 Test Result

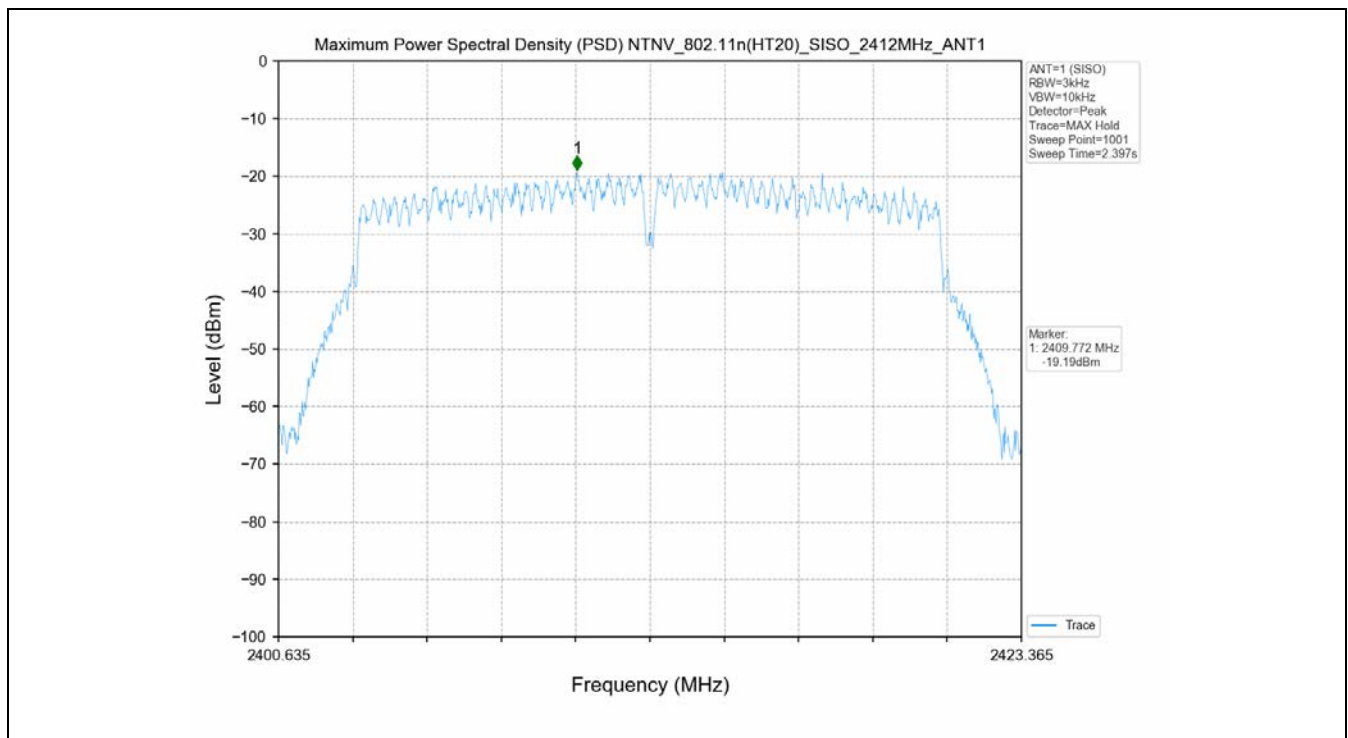
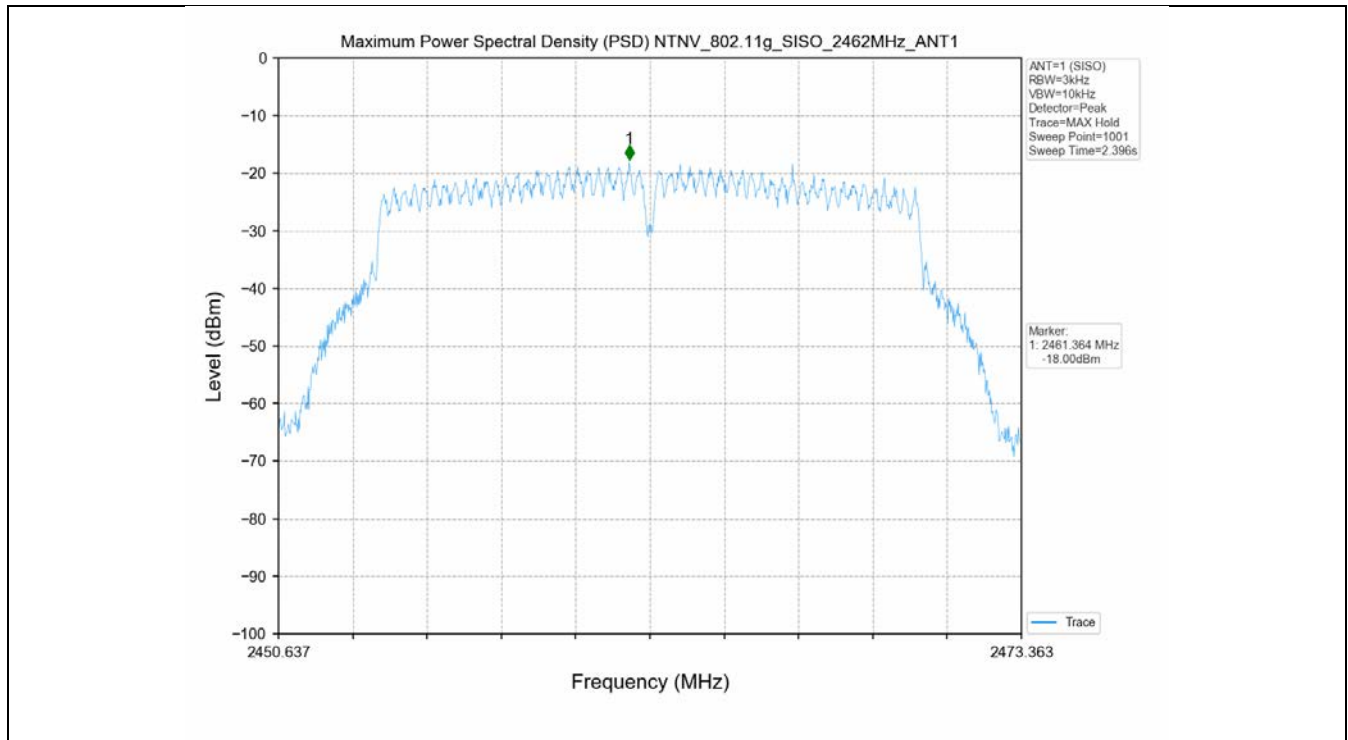
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-7.88	≤ 8	PASS
	2437	SISO	-7.77	≤ 8	PASS
	2462	SISO	-7.57	≤ 8	PASS
802.11g	2412	SISO	-17.94	≤ 8	PASS
	2437	SISO	-17.93	≤ 8	PASS
	2462	SISO	-18.00	≤ 8	PASS
802.11n(HT20)	2412	SISO	-19.19	≤ 8	PASS
	2437	SISO	-18.50	≤ 8	PASS
	2462	SISO	-17.41	≤ 8	PASS
802.11n(HT40)	2422	SISO	-21.48	≤ 8	PASS
	2437	SISO	-21.99	≤ 8	PASS
	2452	SISO	-21.80	≤ 8	PASS

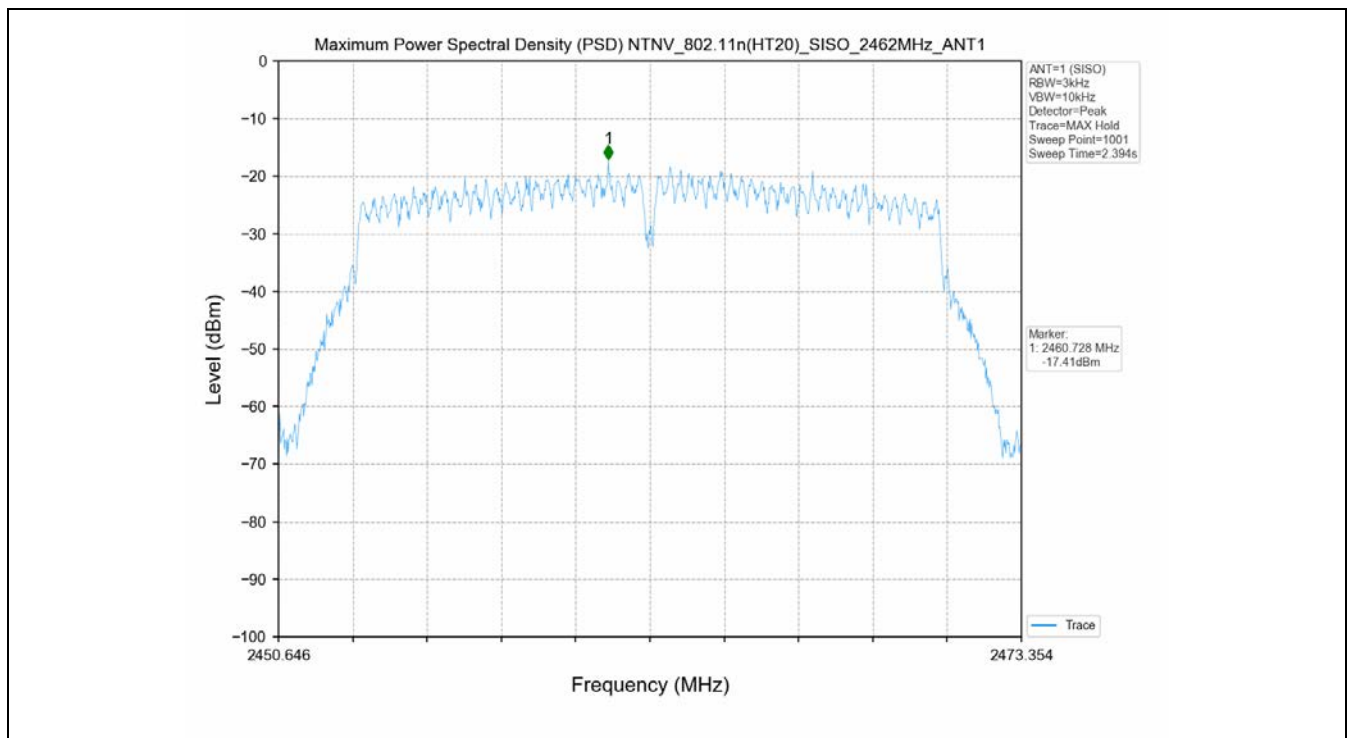
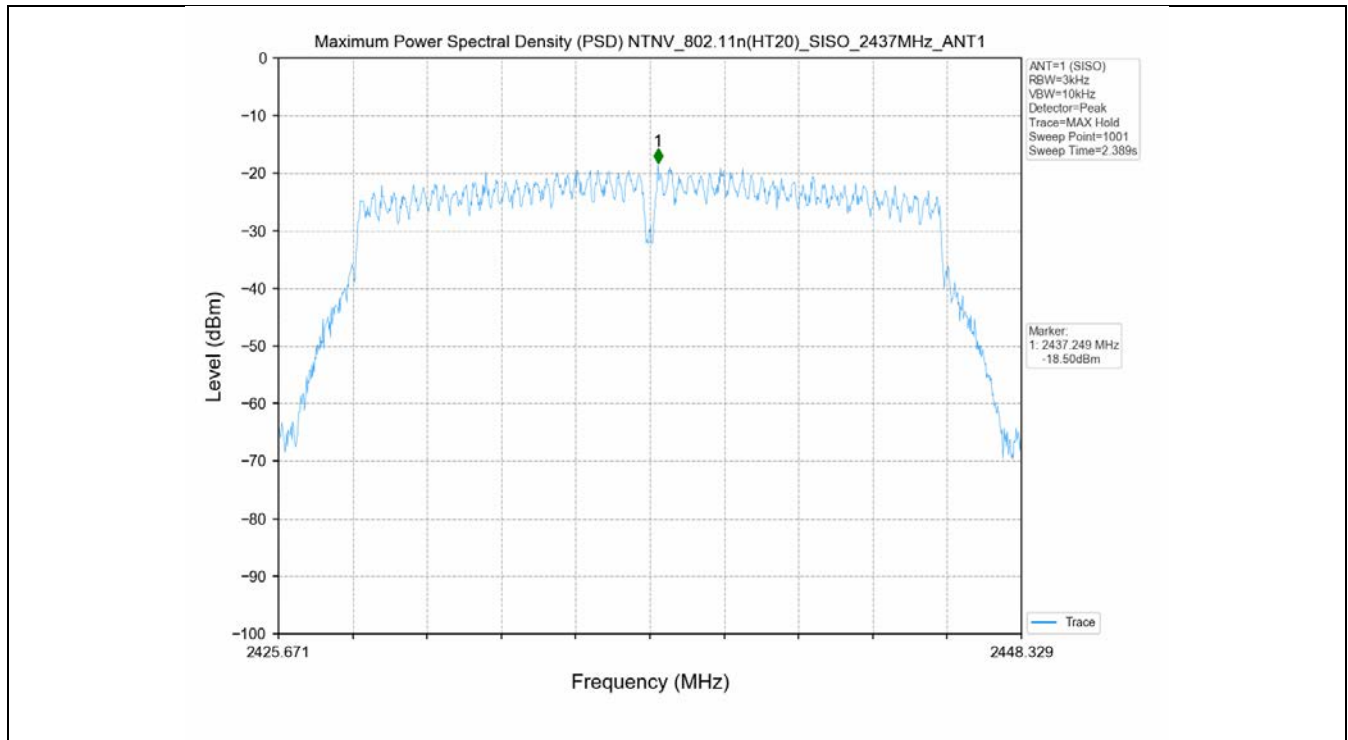
4.2 Test Graph

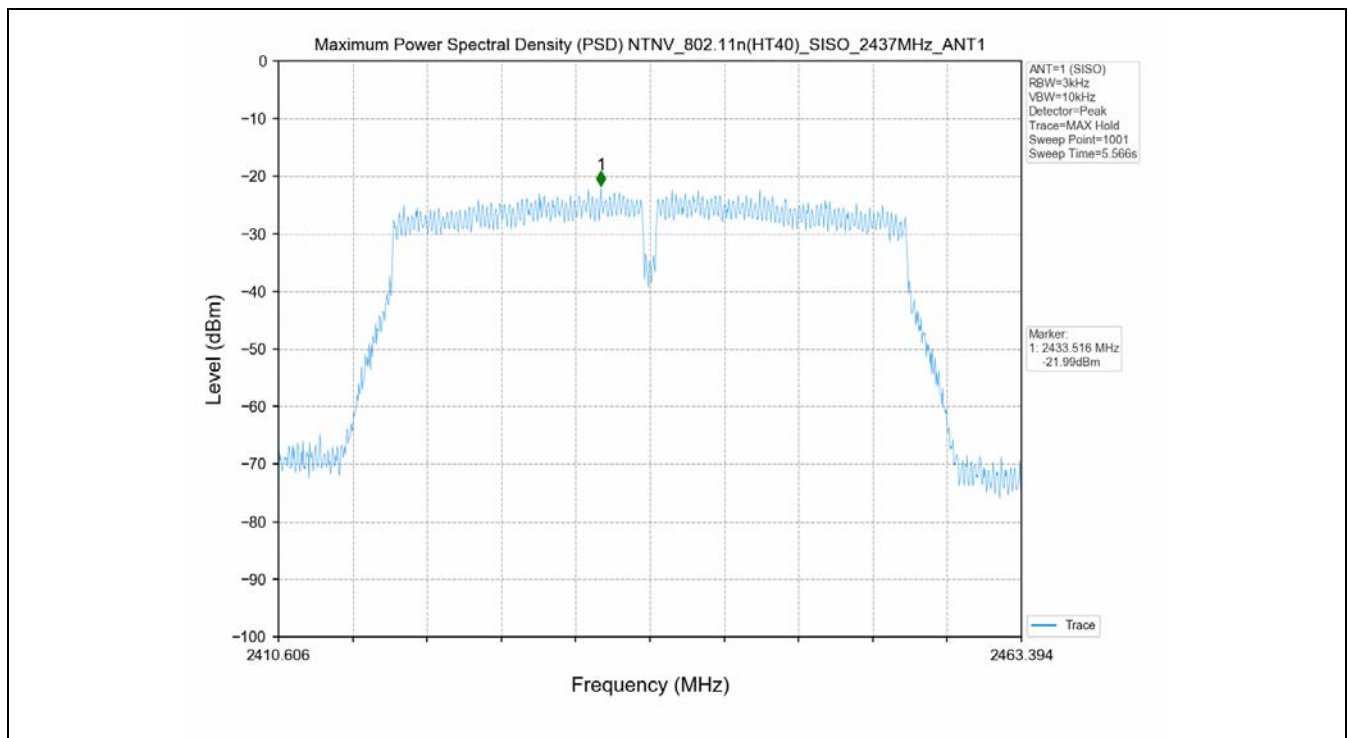
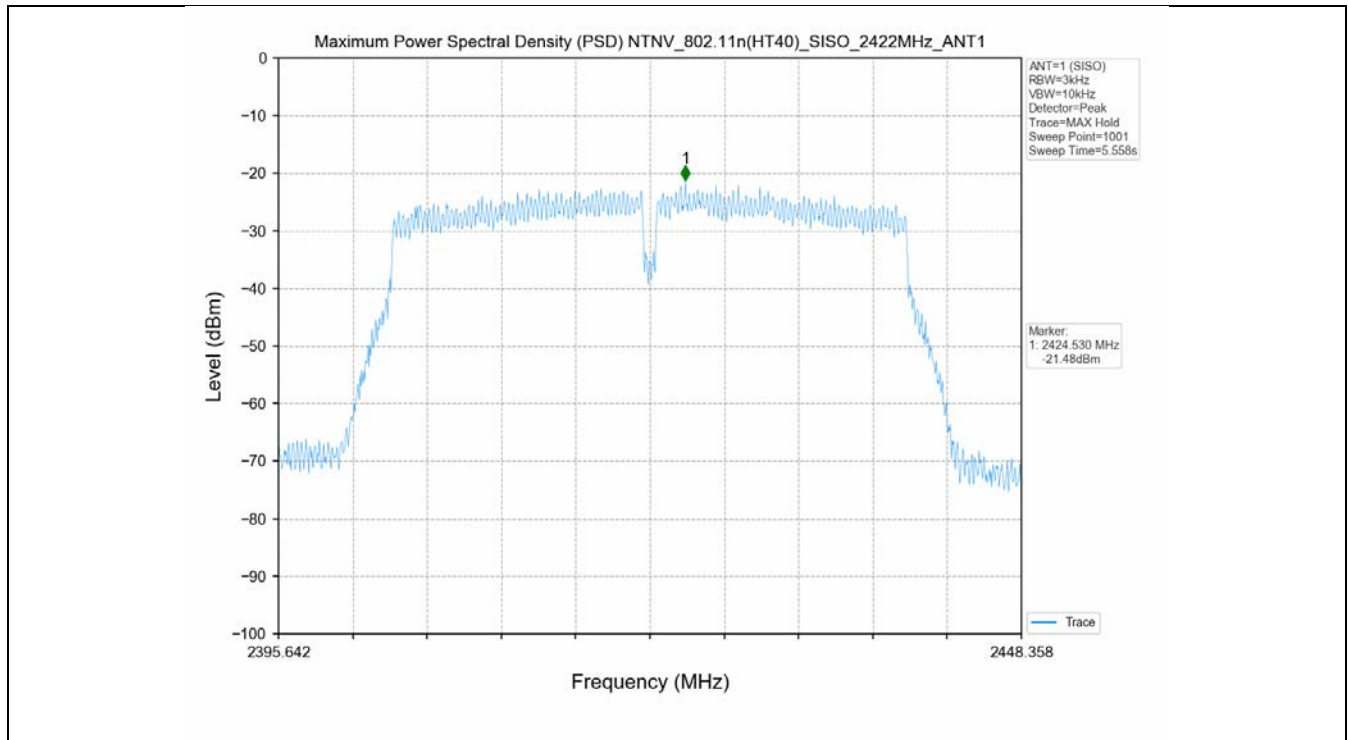


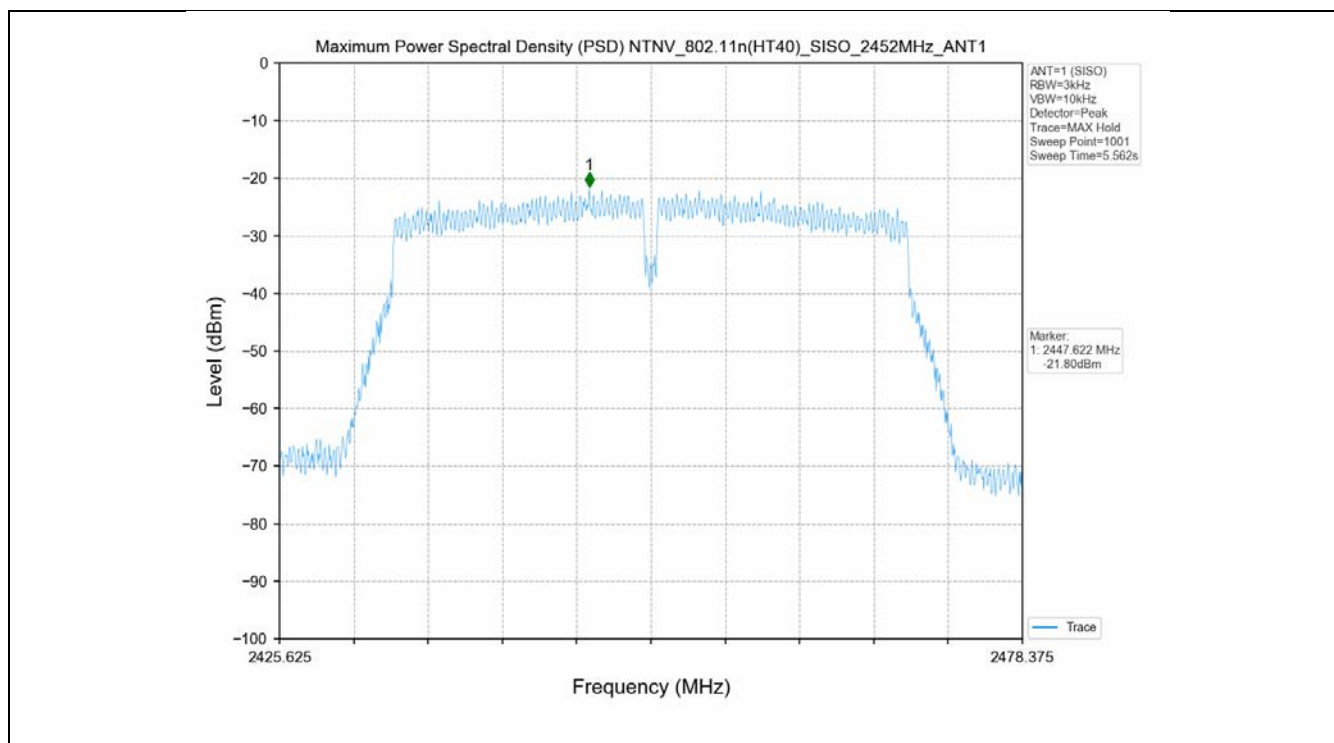












5. Unwanted Emissions in Non-restricted Frequency Bands

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	-14.50	PASS
	2437	SISO	1	Refer to test graph	-14.50	PASS
	2462	SISO	1	Refer to test graph	-14.50	PASS
802.11g	2412	SISO	1	Refer to test graph	-21.14	PASS
	2437	SISO	1	Refer to test graph	-21.14	PASS
	2462	SISO	1	Refer to test graph	-21.14	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-21.93	PASS
	2437	SISO	1	Refer to test graph	-21.93	PASS
	2462	SISO	1	Refer to test graph	-21.93	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-25.72	PASS
	2437	SISO	1	Refer to test graph	-25.72	PASS
	2452	SISO	1	Refer to test graph	-25.72	PASS

5.2 Test Graph

