



Appendix for SHEM2012010711CR-BLE-R

Power level setting using in test:

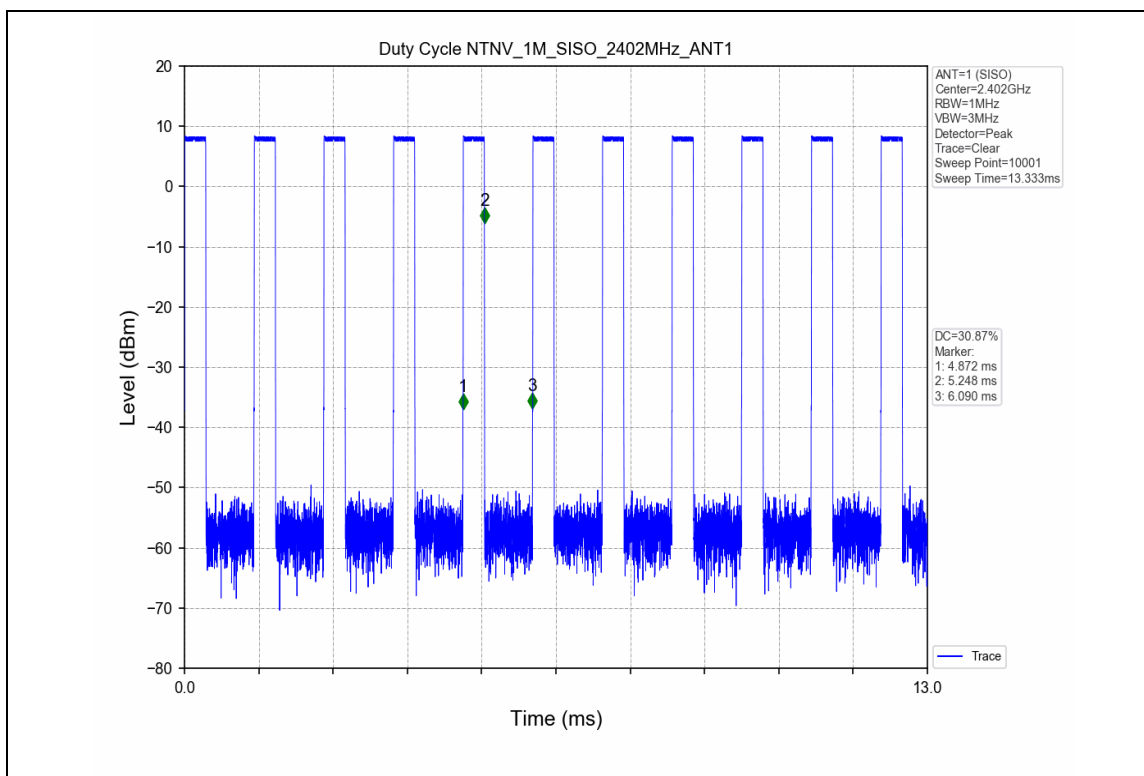
Channel	BLE
0	46
19	46
39	46

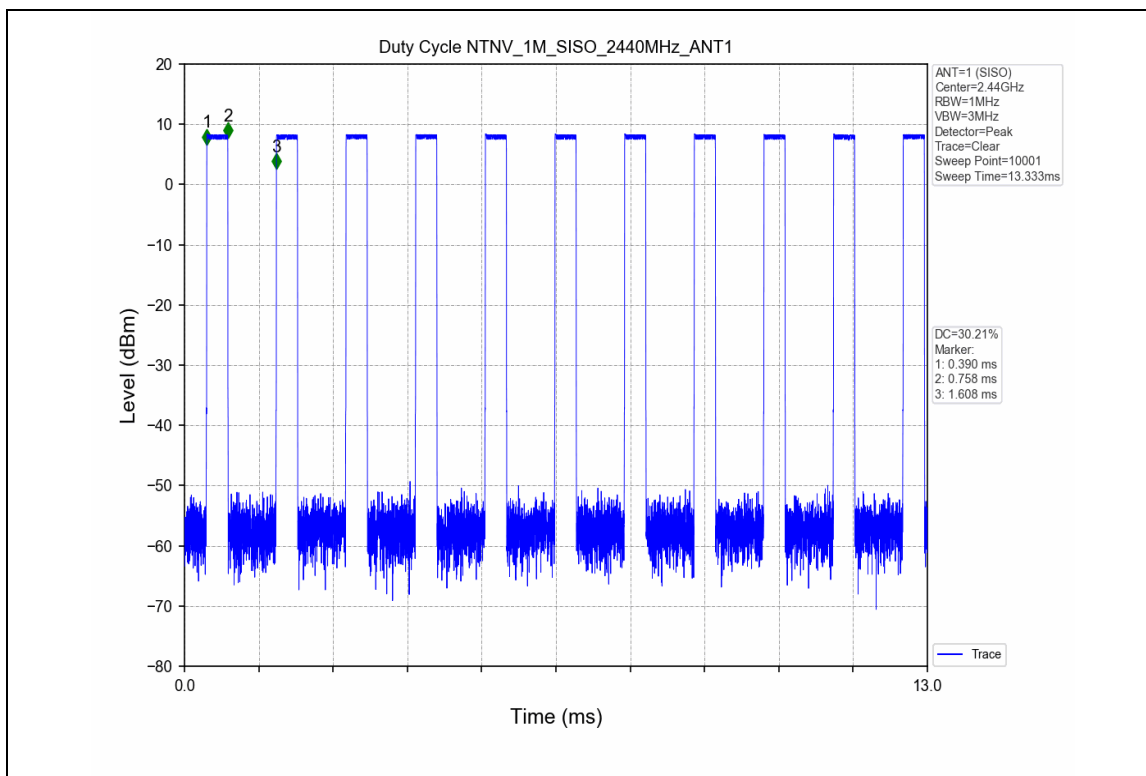
1. Duty Cycle

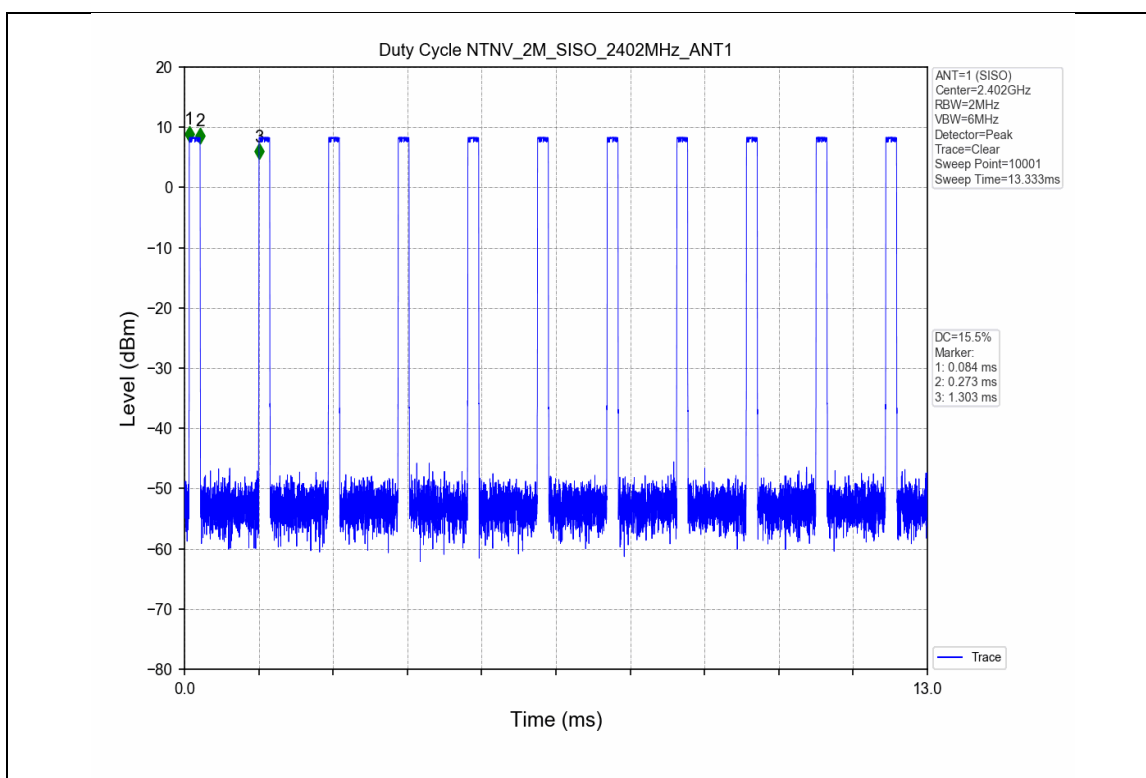
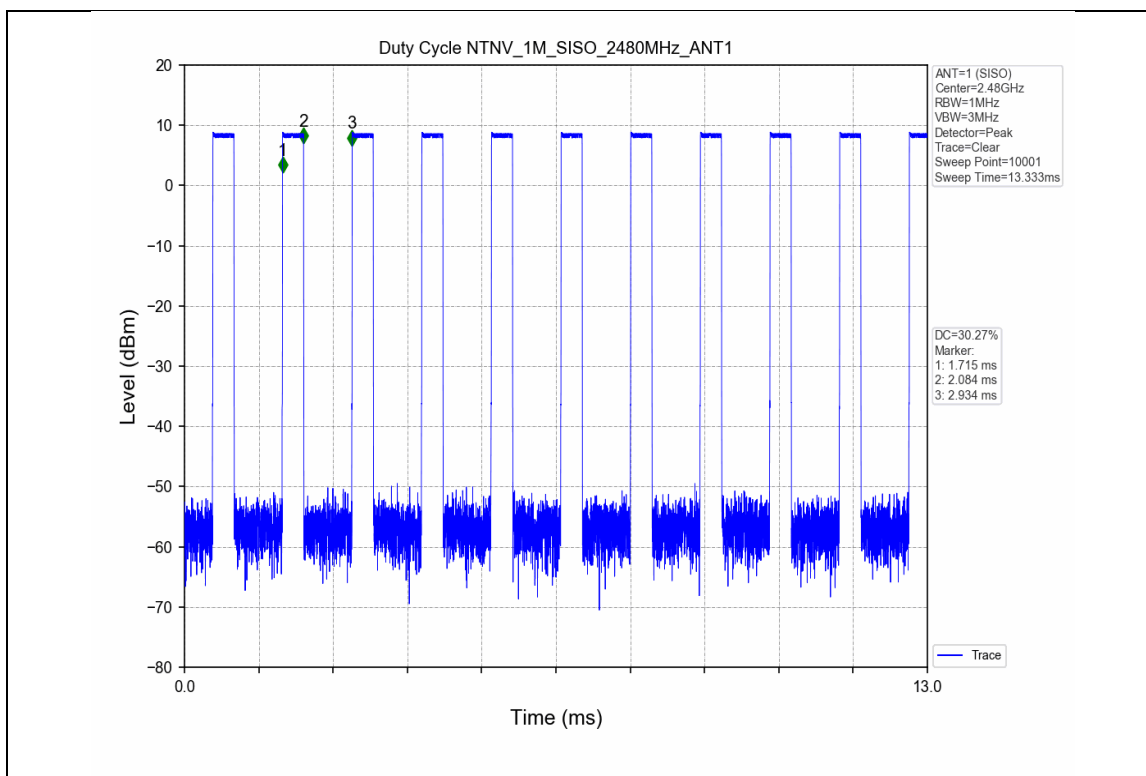
1.1 Test Result

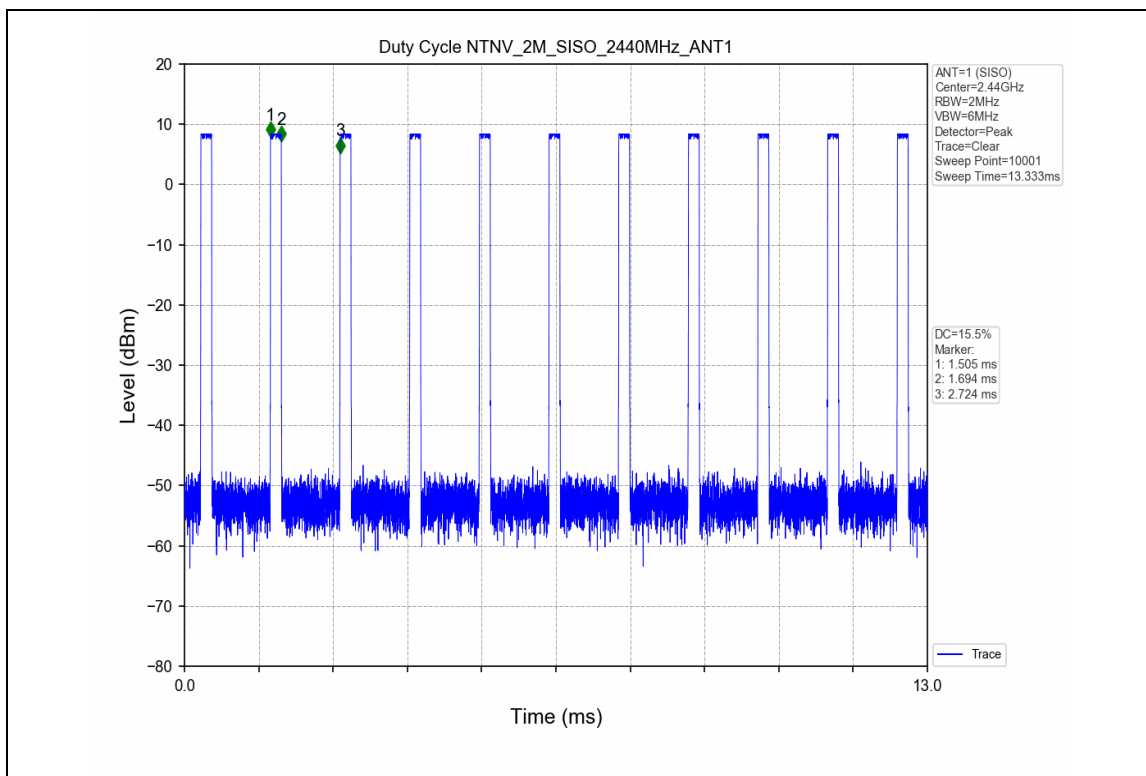
Test Mode	Channel Frequency(M Hz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
1M	2402	SISO	1	0.376	1.218	30.87	5.10
	2440	SISO	1	0.368	1.218	30.21	5.20
	2480	SISO	1	0.369	1.219	30.27	5.19
2M	2402	SISO	1	0.189	1.219	15.50	8.10
	2440	SISO	1	0.189	1.219	15.50	8.10
	2480	SISO	1	0.188	1.218	15.44	8.11

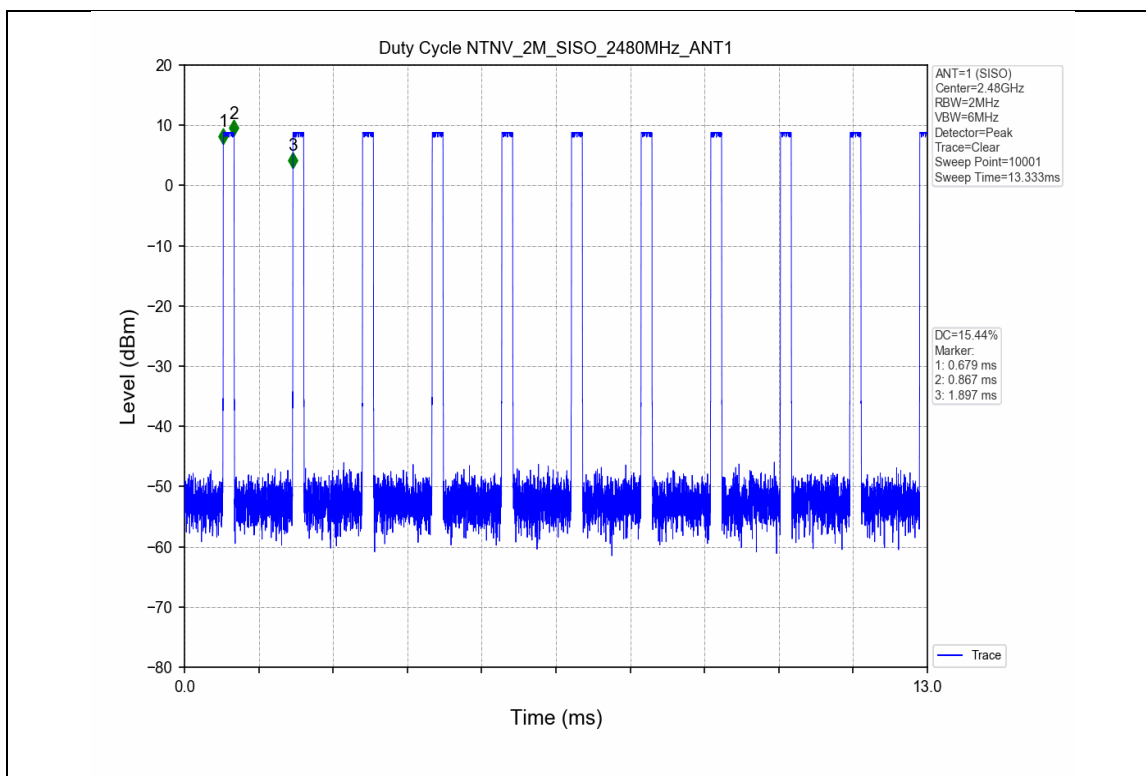
1.2 Test Graph











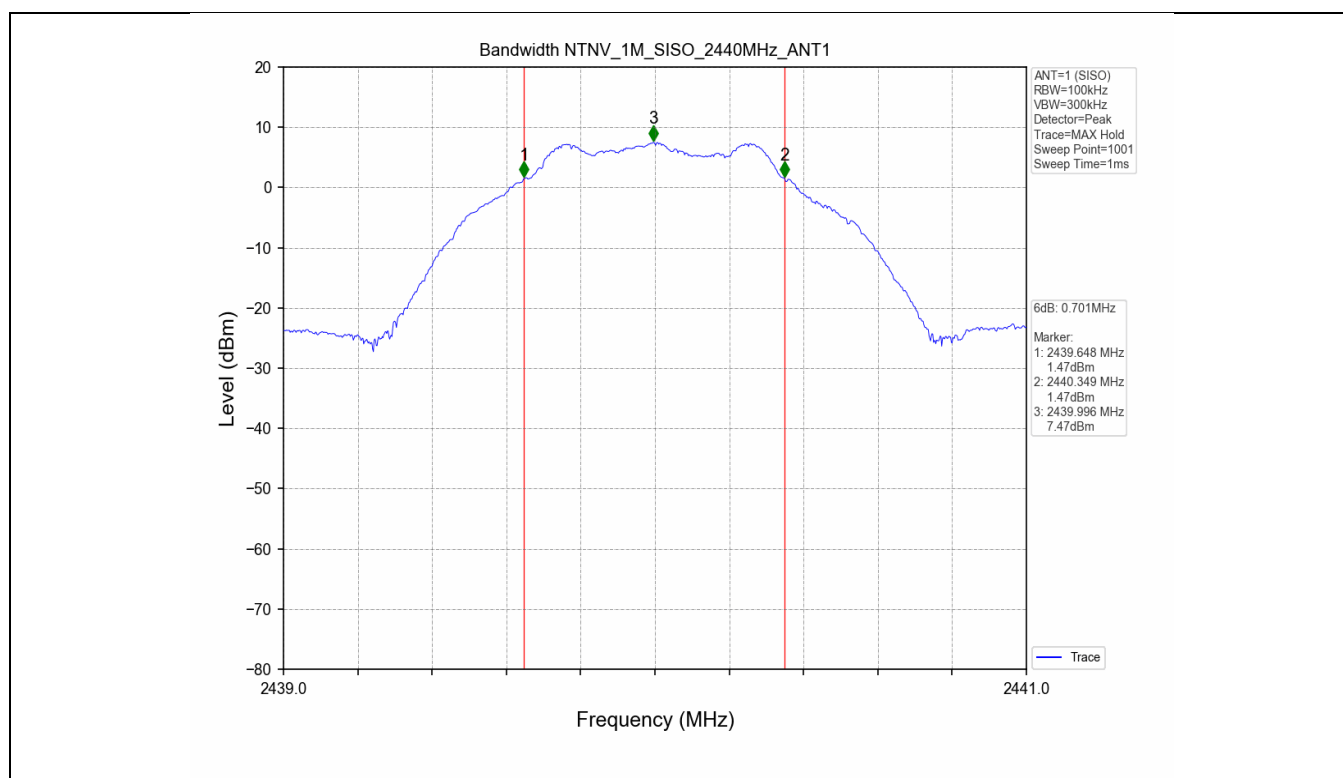
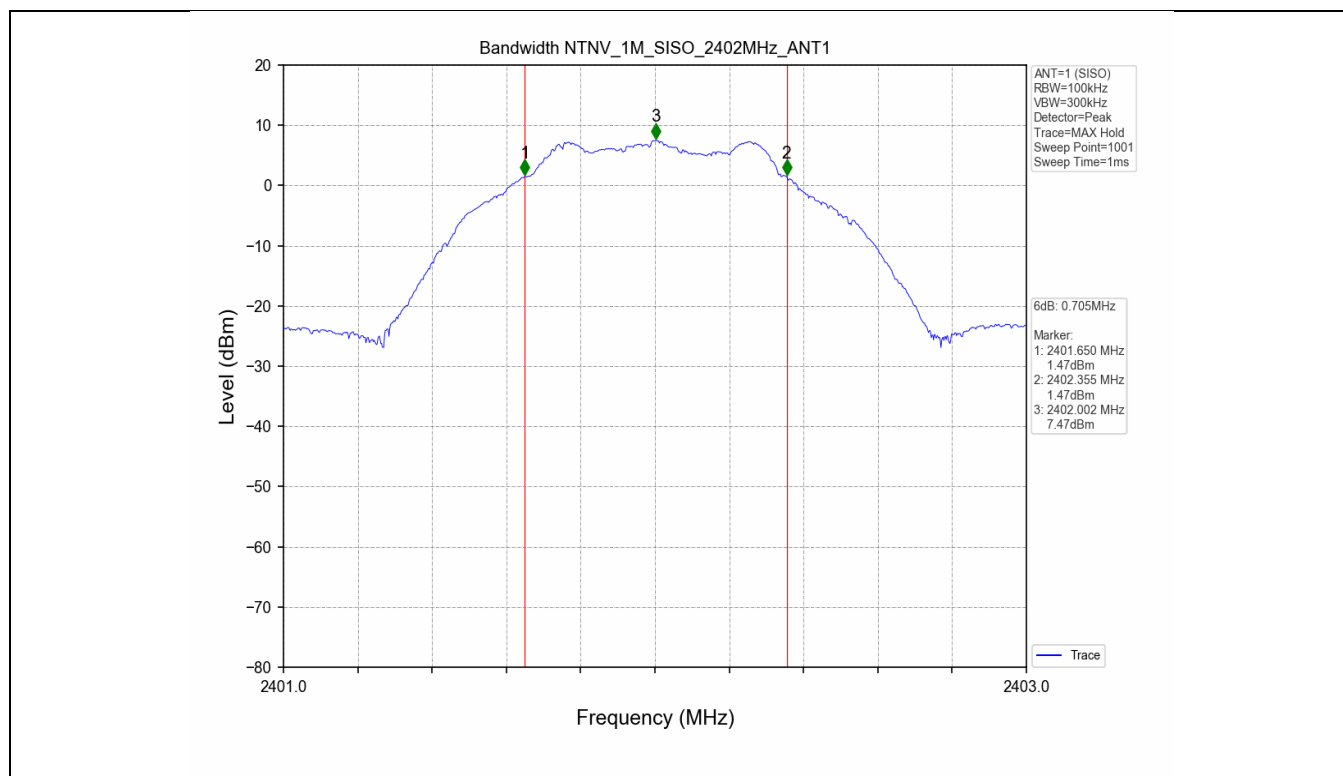
2. Bandwidth

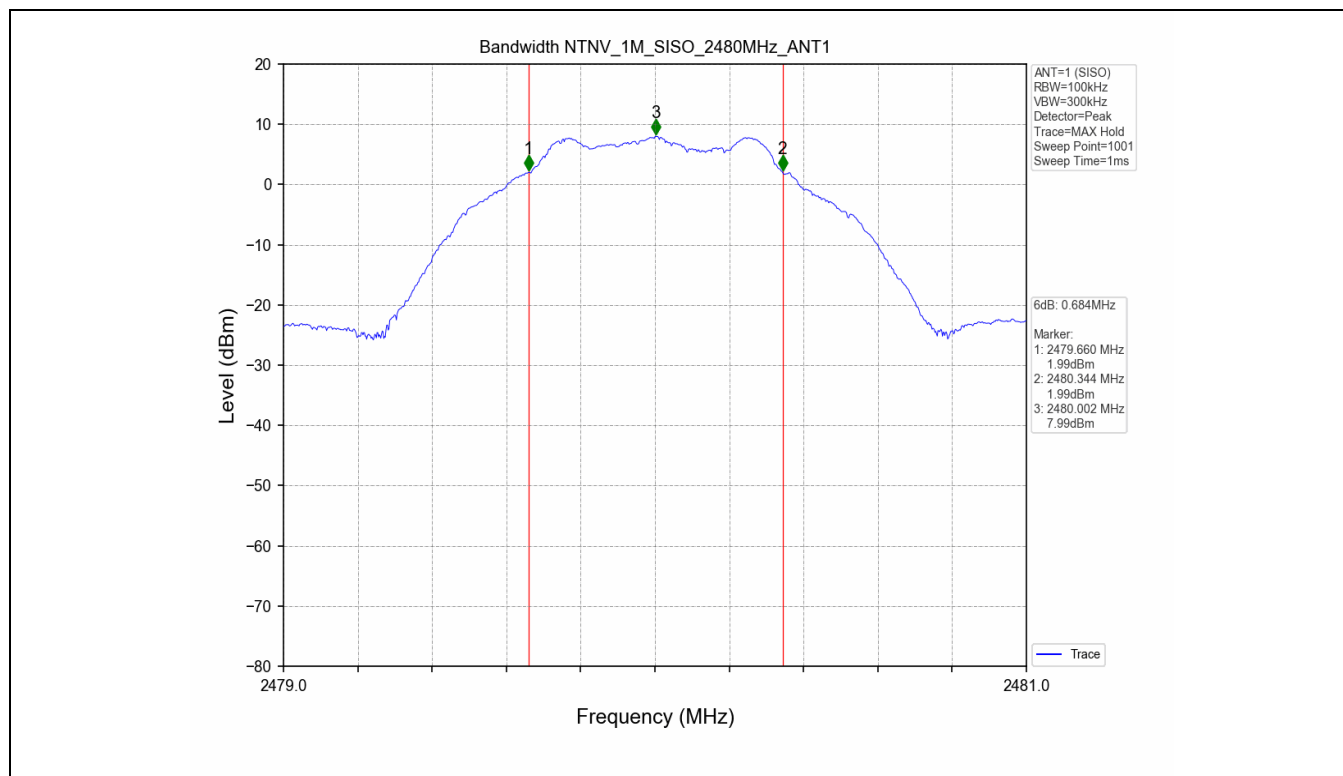
2.1 Test Result

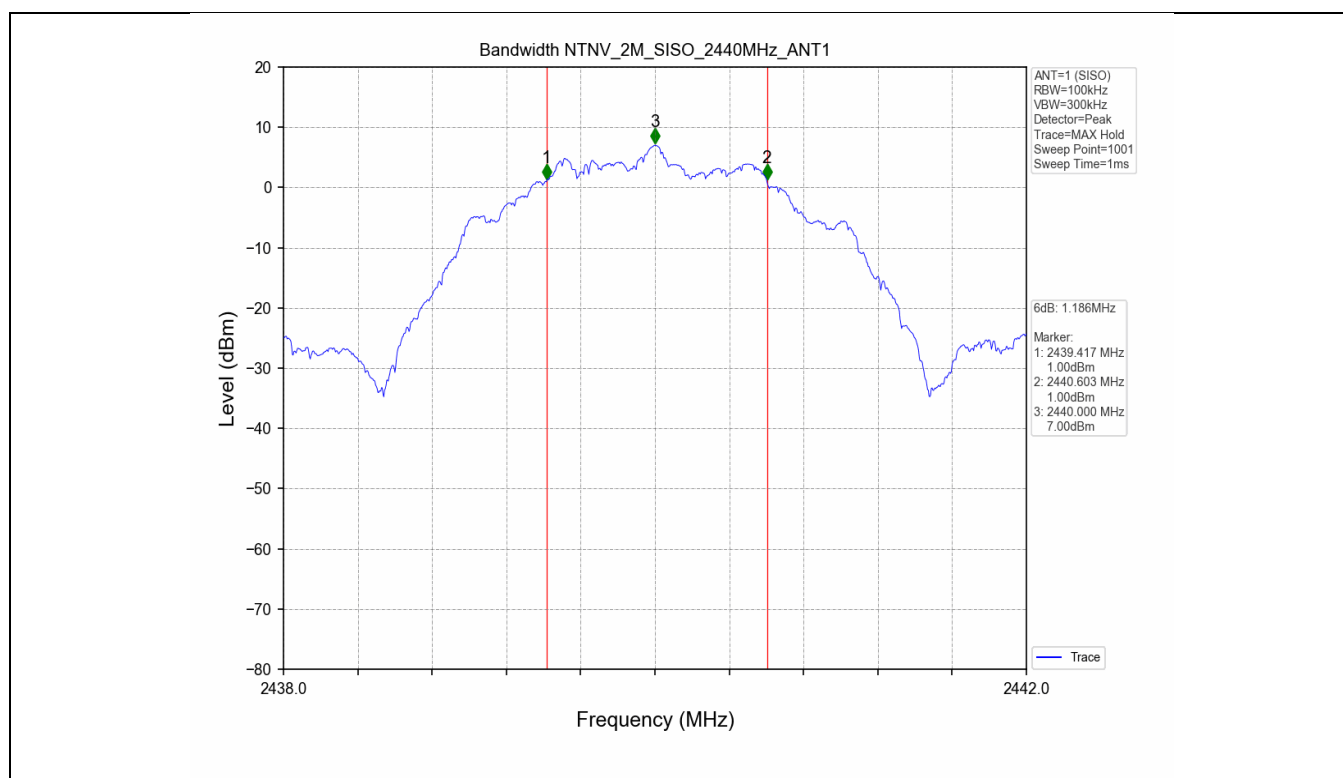
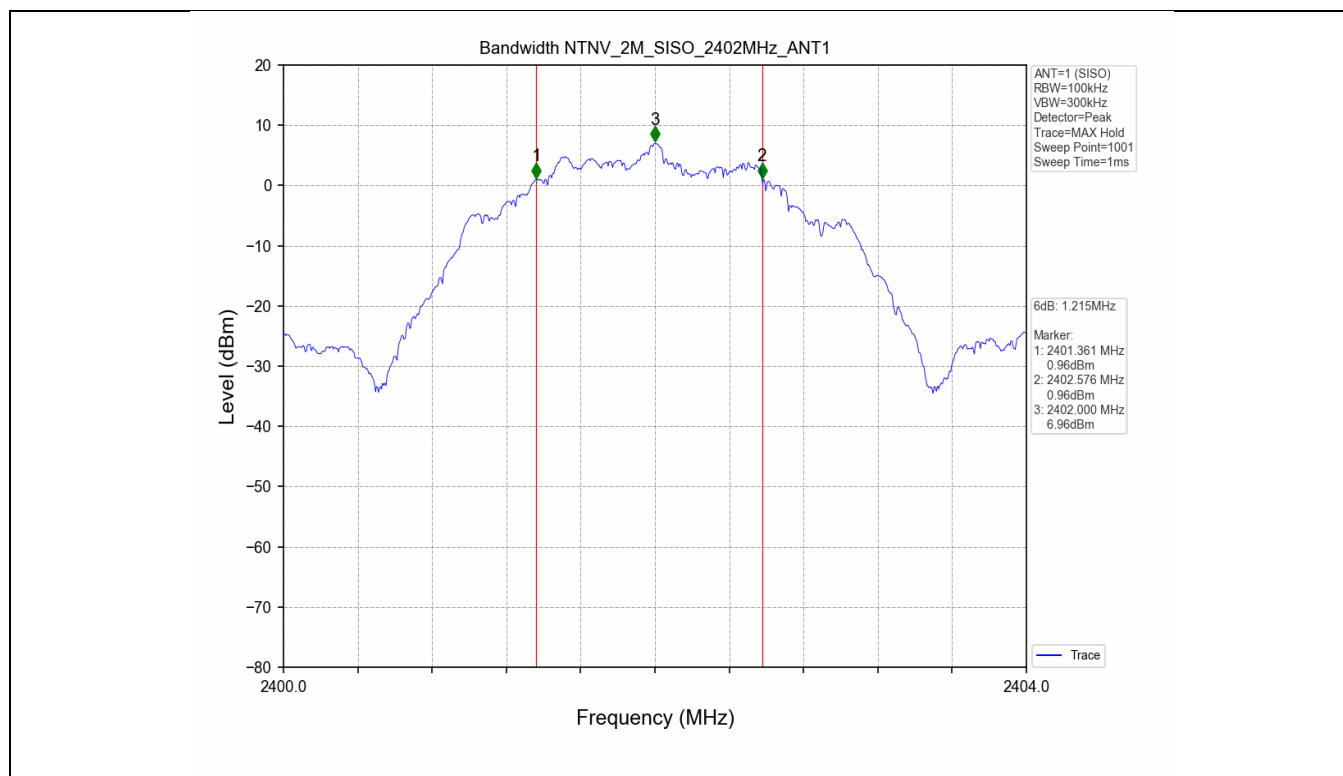
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth	Verdict
				Test Result (MHz)	
1M	2402	SISO	1	0.705	PASS
	2440	SISO	1	0.701	PASS
	2480	SISO	1	0.684	PASS
2M	2402	SISO	1	1.215	PASS
	2440	SISO	1	1.186	PASS
	2480	SISO	1	1.192	PASS

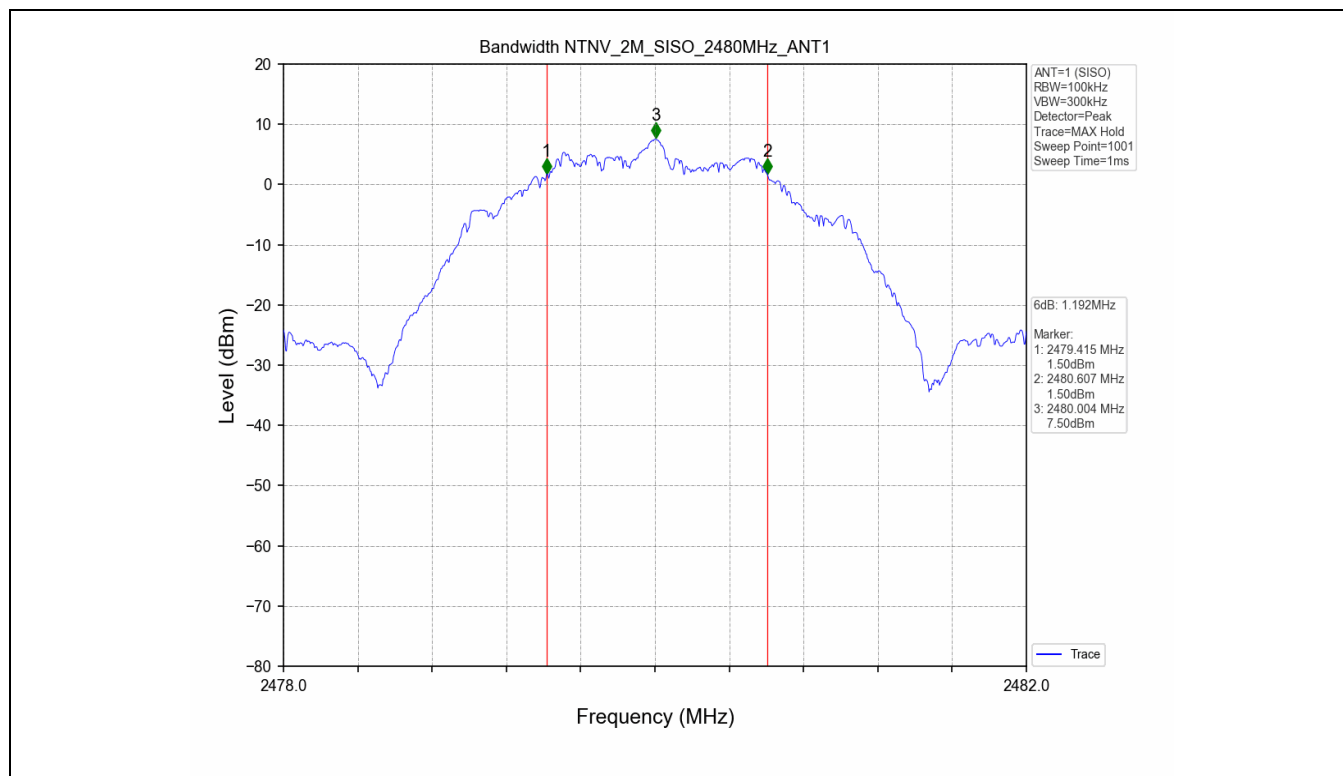
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
1M	2402	SISO	1	1.041	Only for Report Use
	2440	SISO	1	1.040	Only for Report Use
	2480	SISO	1	1.040	Only for Report Use
2M	2402	SISO	1	2.060	Only for Report Use
	2440	SISO	1	2.060	Only for Report Use
	2480	SISO	1	2.060	Only for Report Use

2.2 Test Graph - 6dB Bandwidth

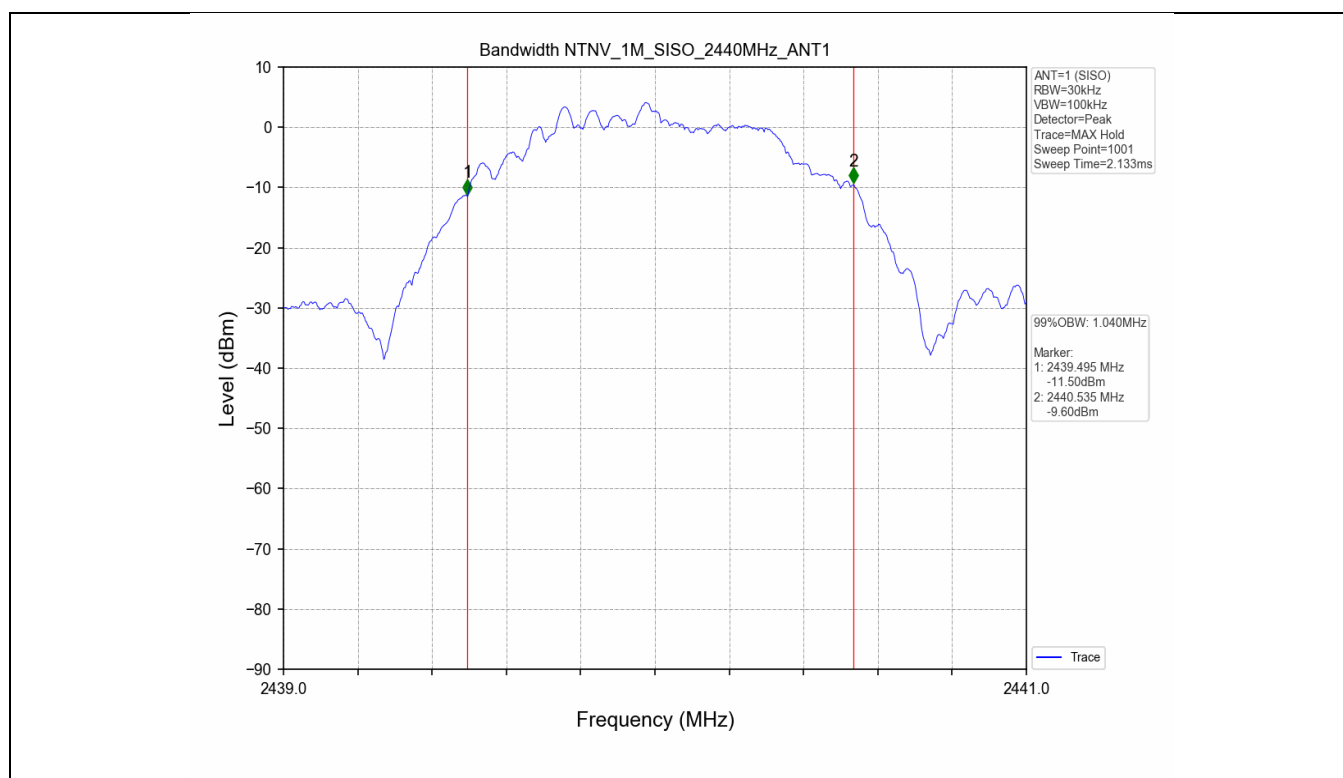
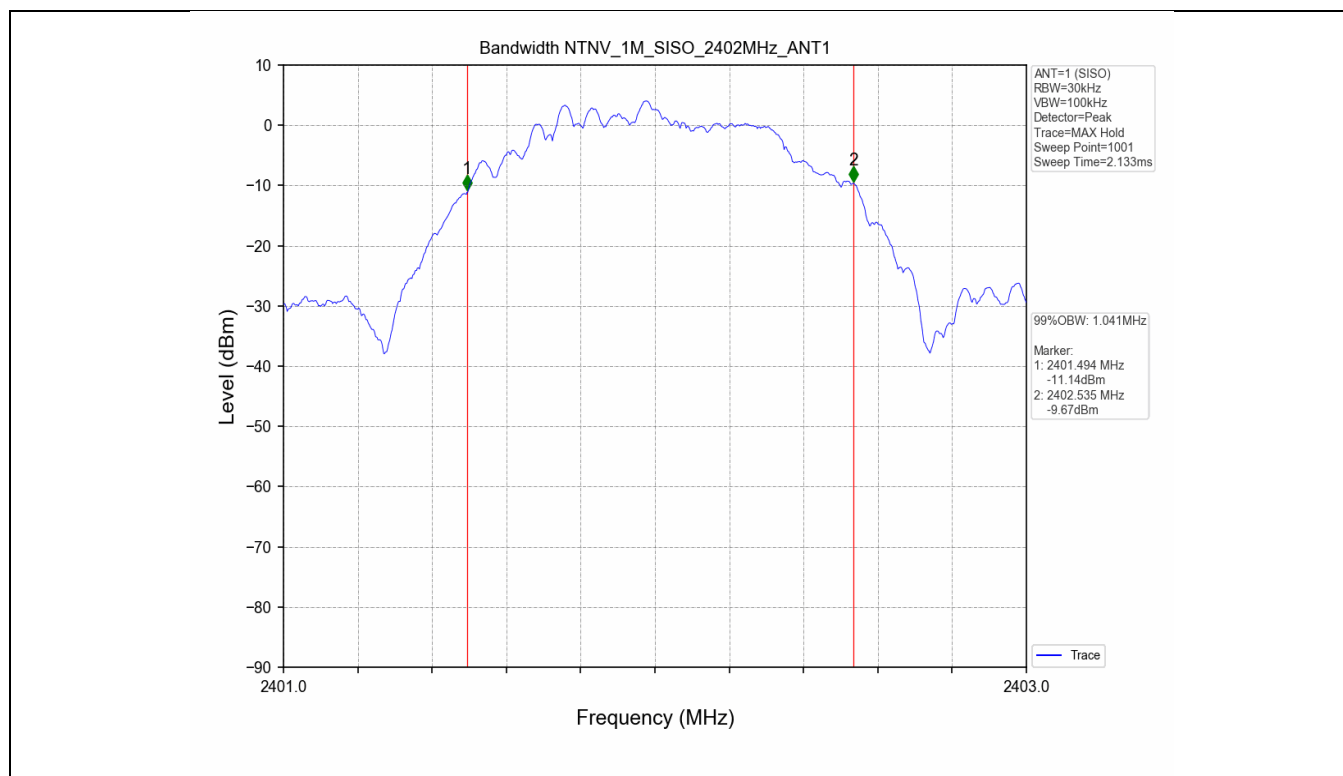


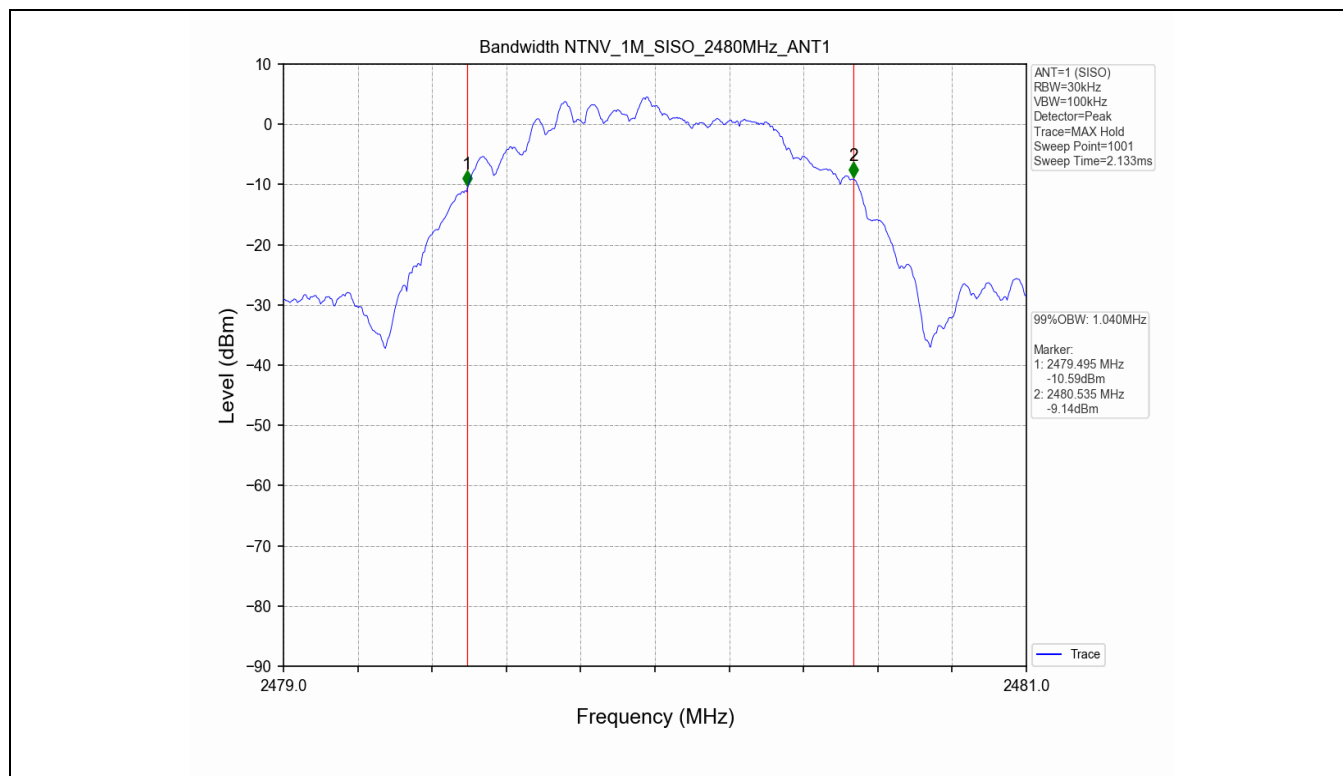


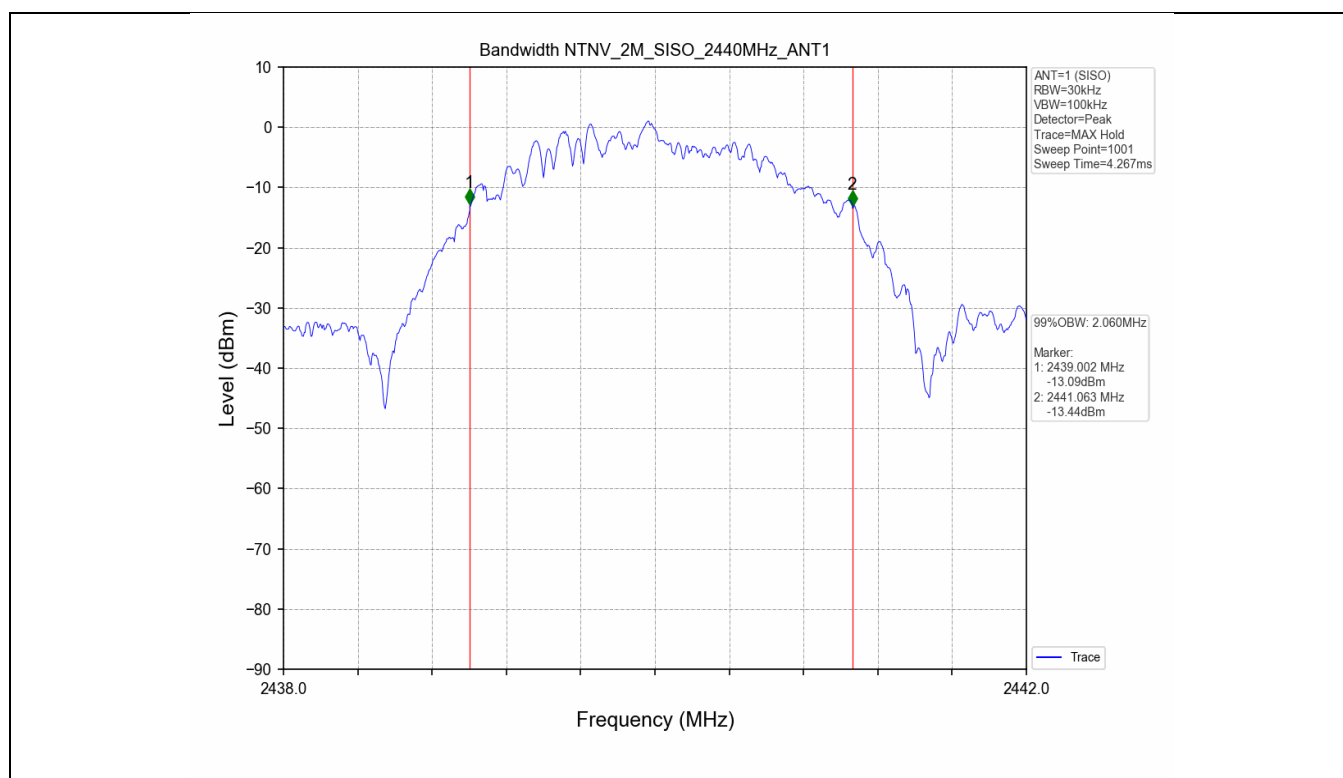
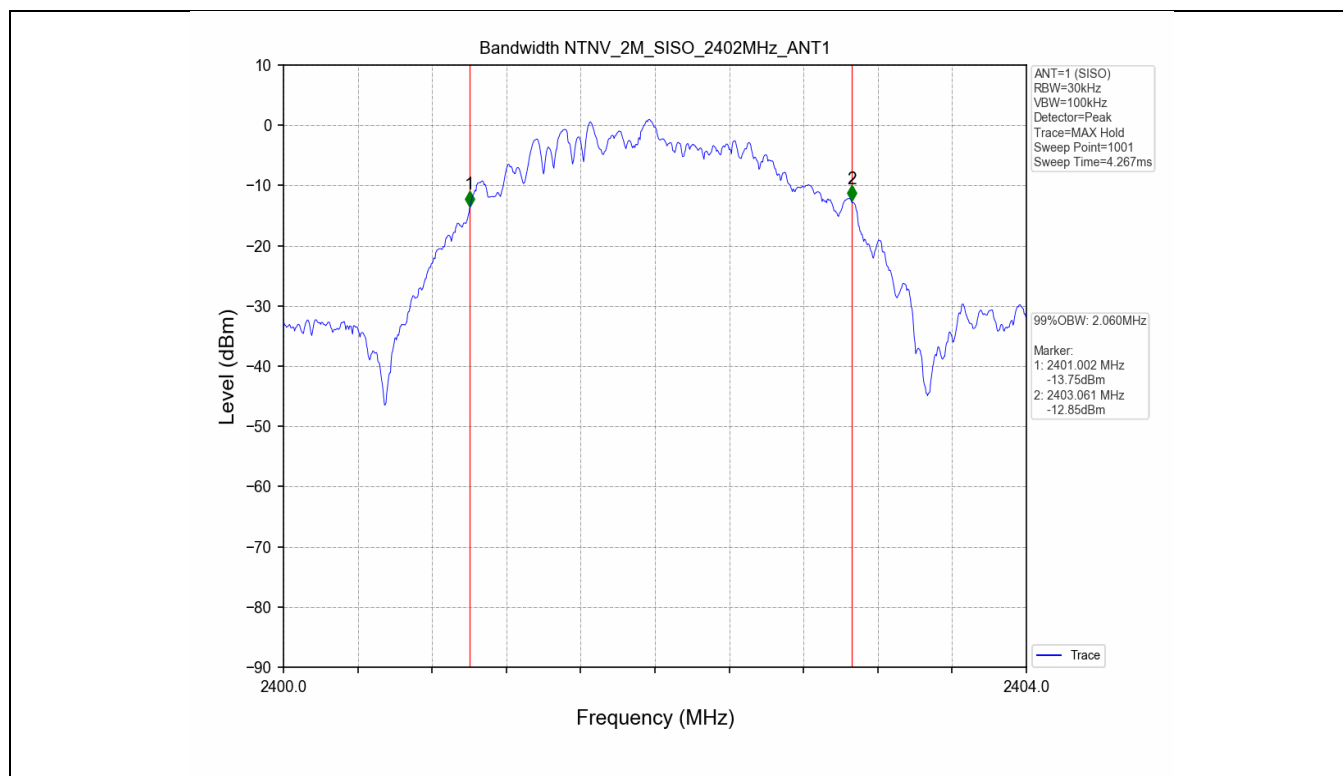


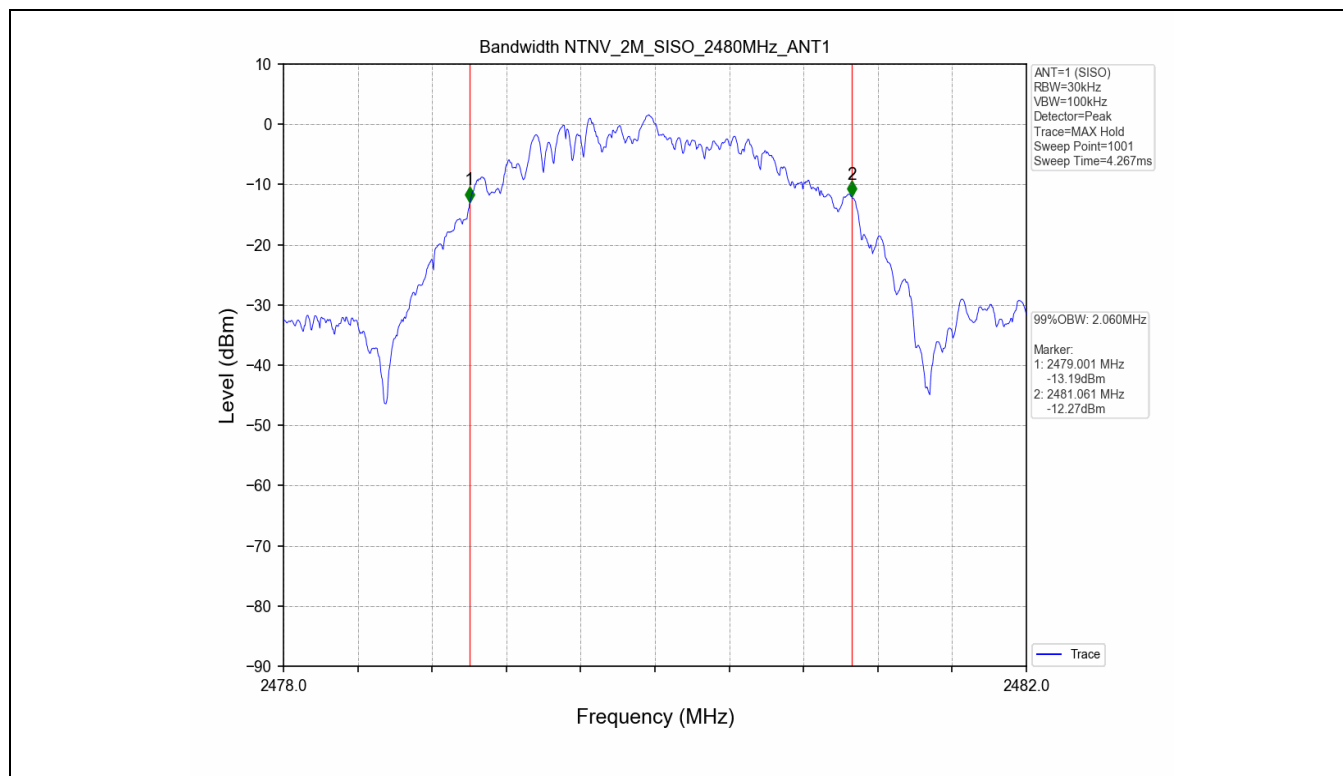


2.3 Test Graph - 99% Occupied Bandwidth







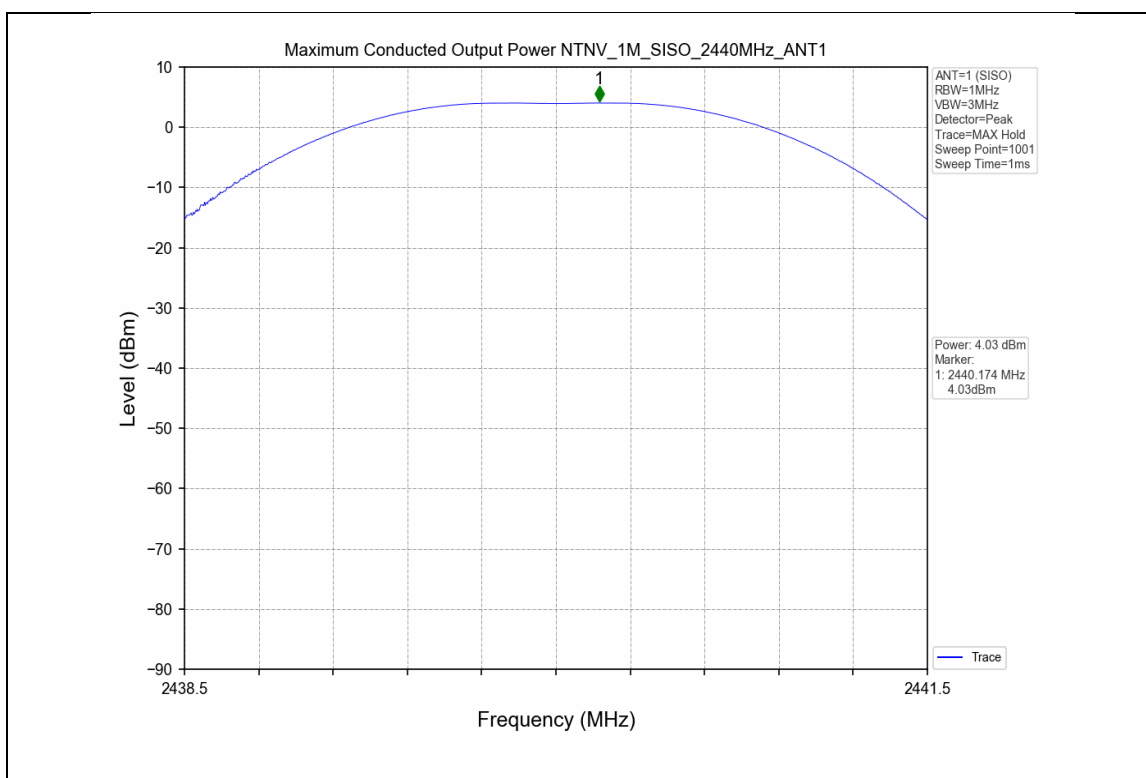
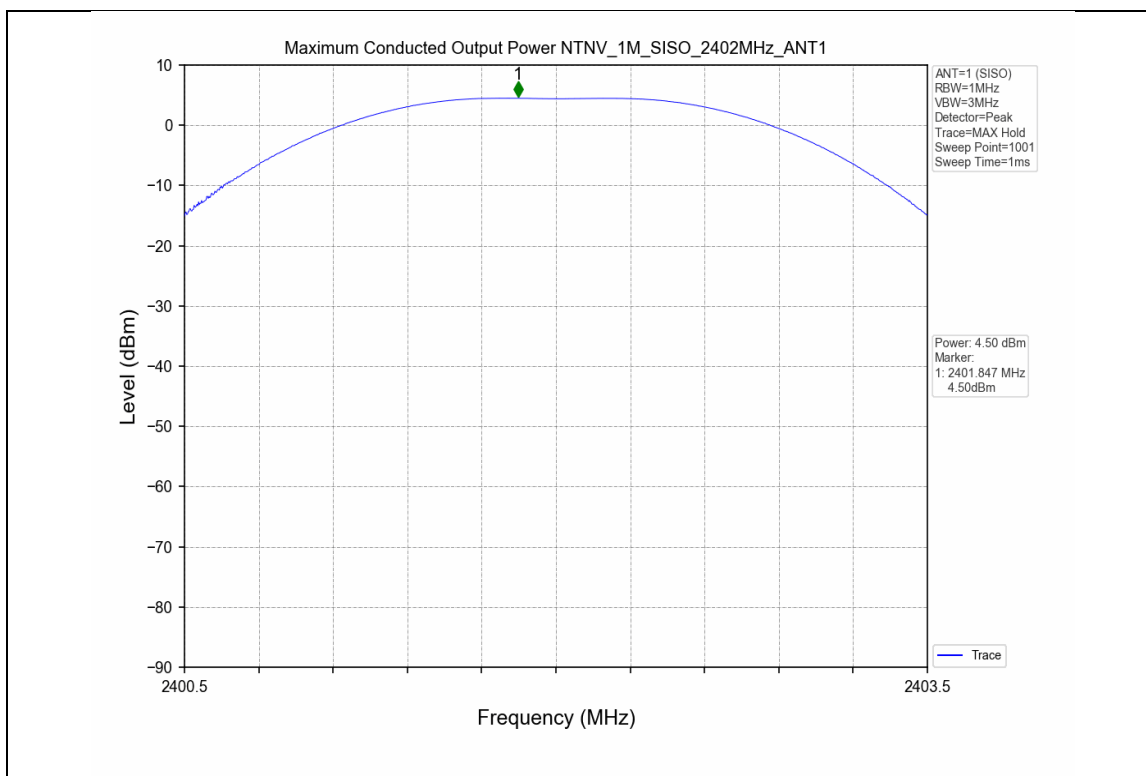


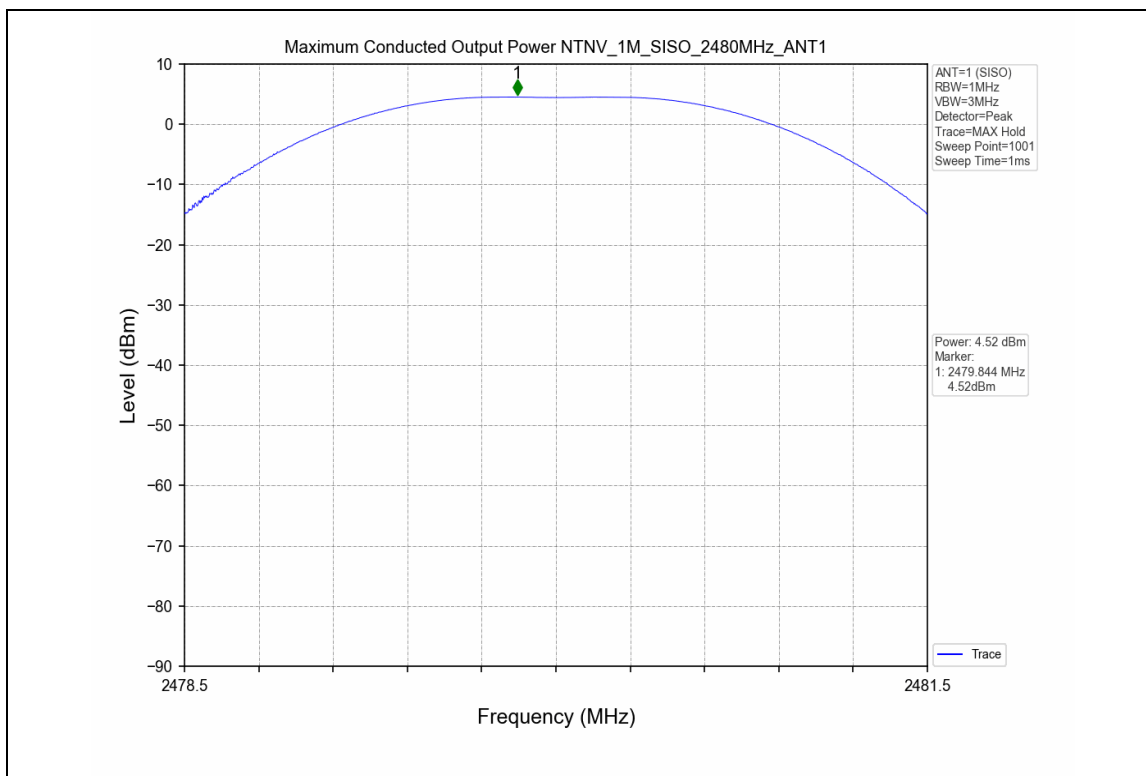
3. Maximum Conducted Output Power

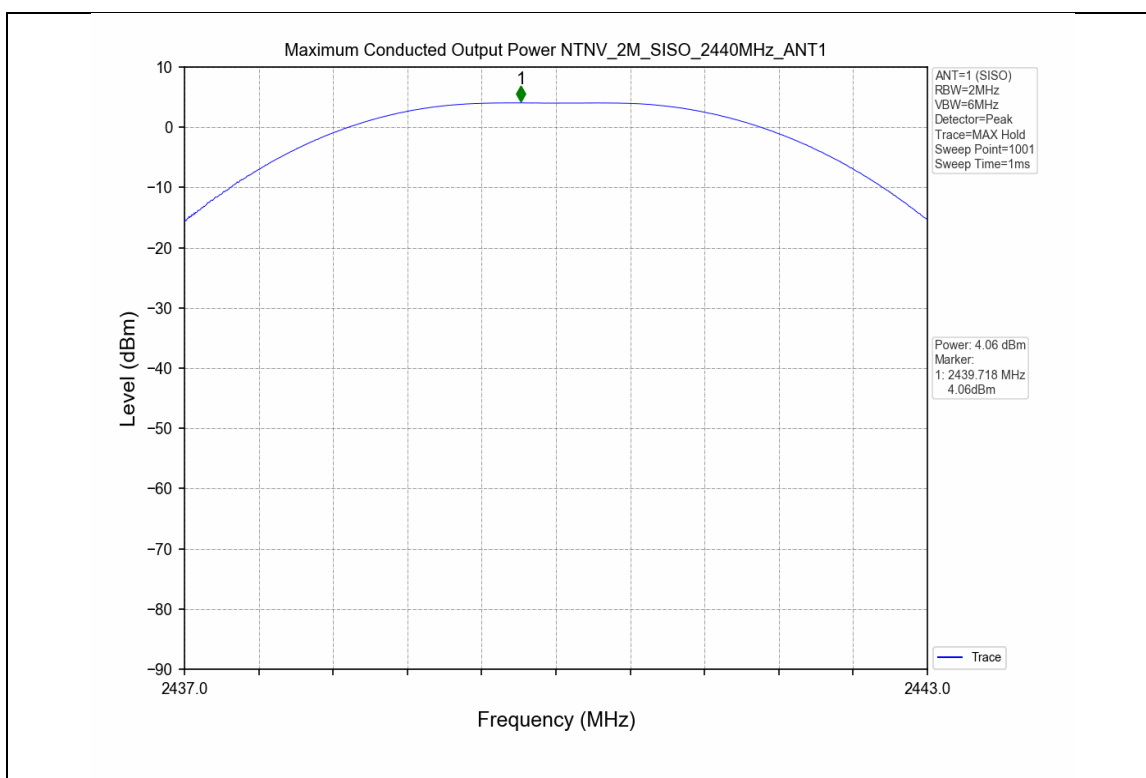
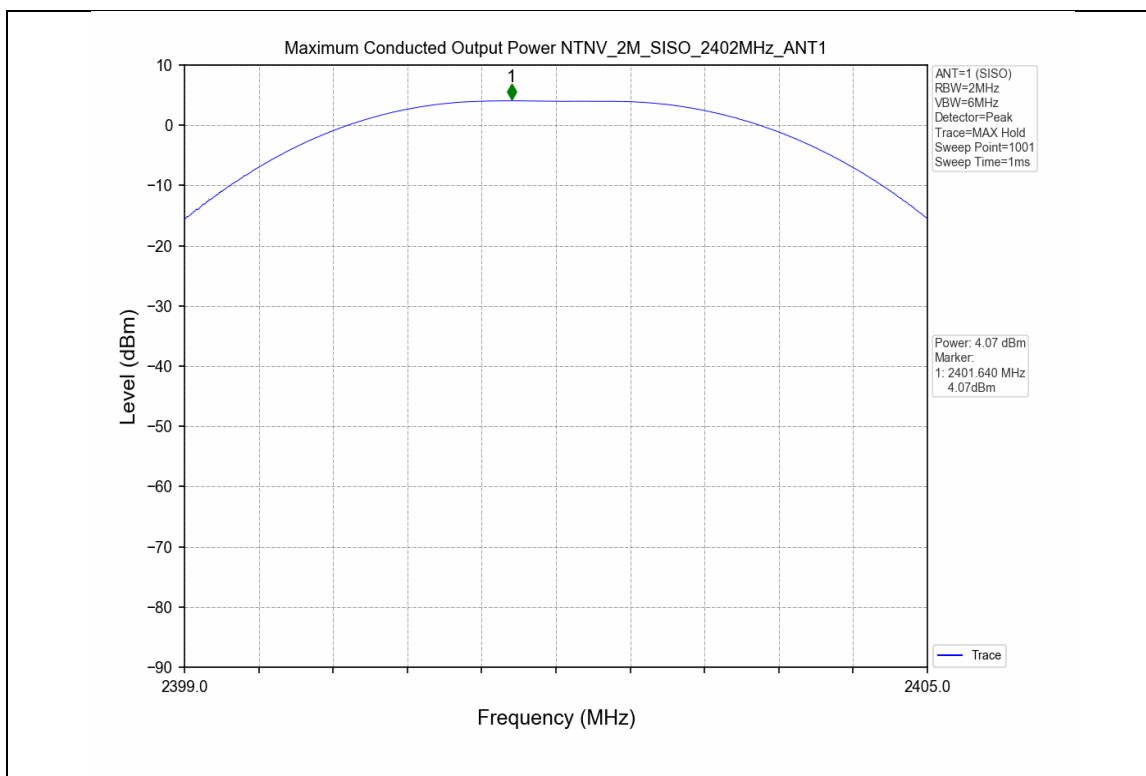
3.1 Test Result

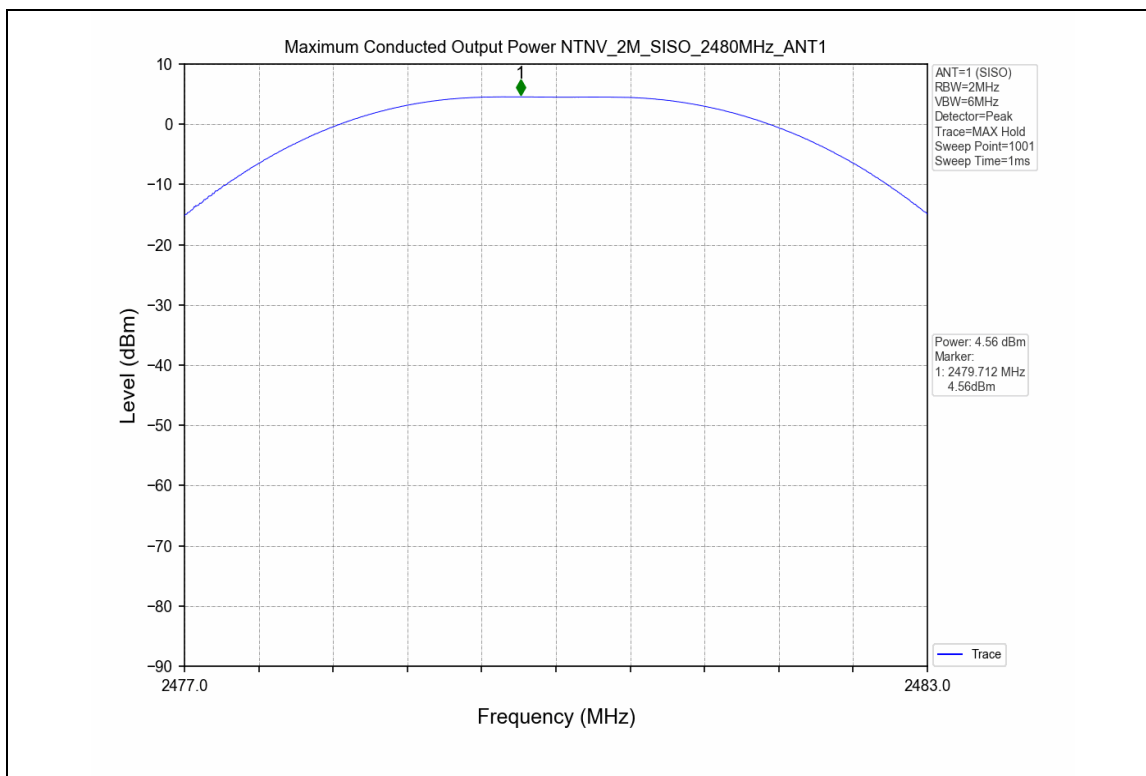
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
1M	2402	SISO	4.50	30	PASS
	2440	SISO	4.03	30	PASS
	2480	SISO	4.52	30	PASS
2M	2402	SISO	4.07	30	PASS
	2440	SISO	4.06	30	PASS
	2480	SISO	4.56	30	PASS

3.2 Test Graph







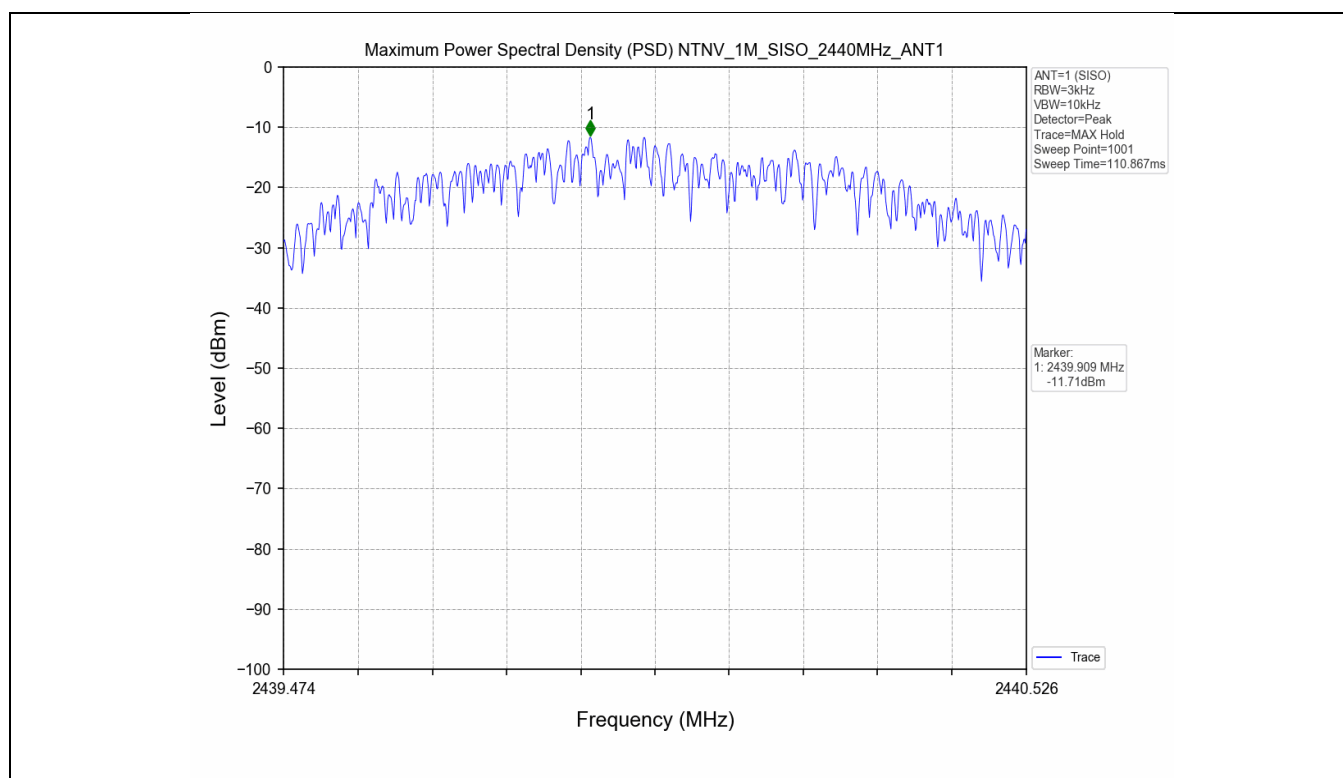
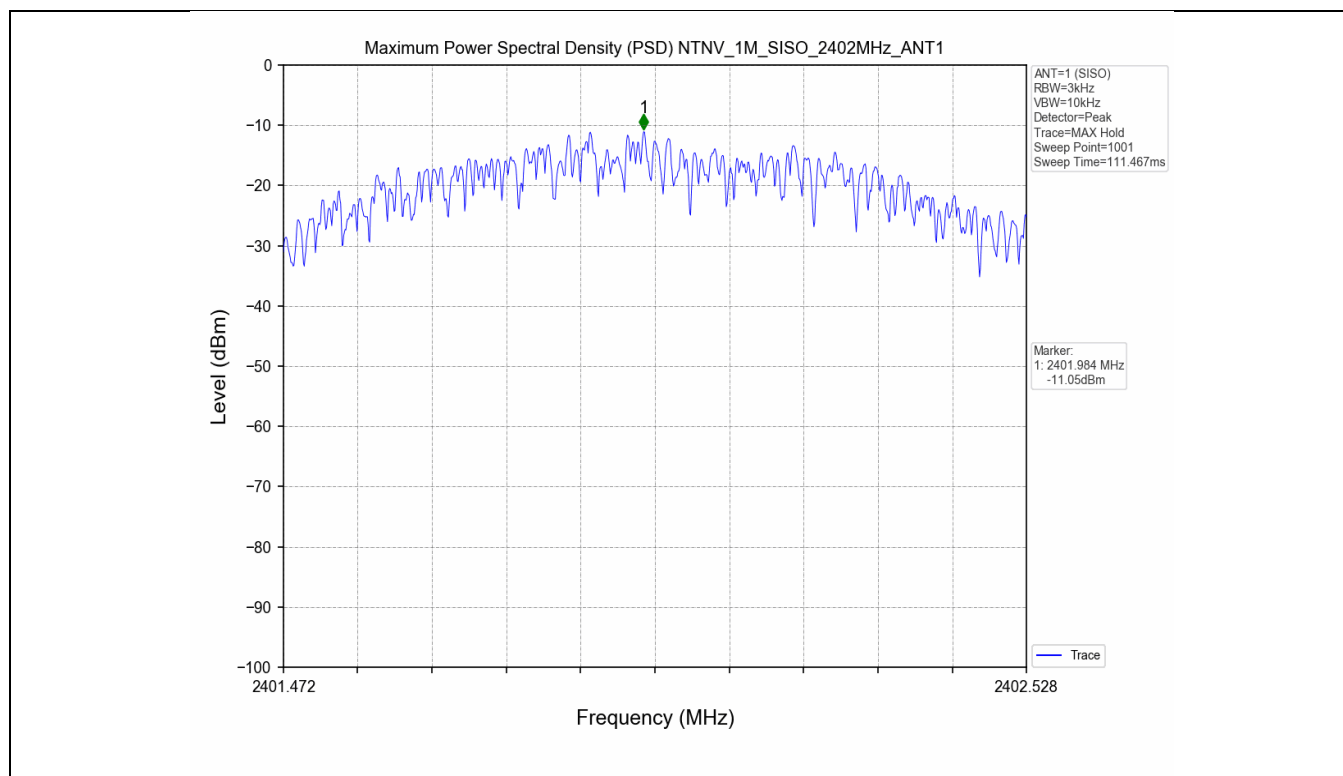


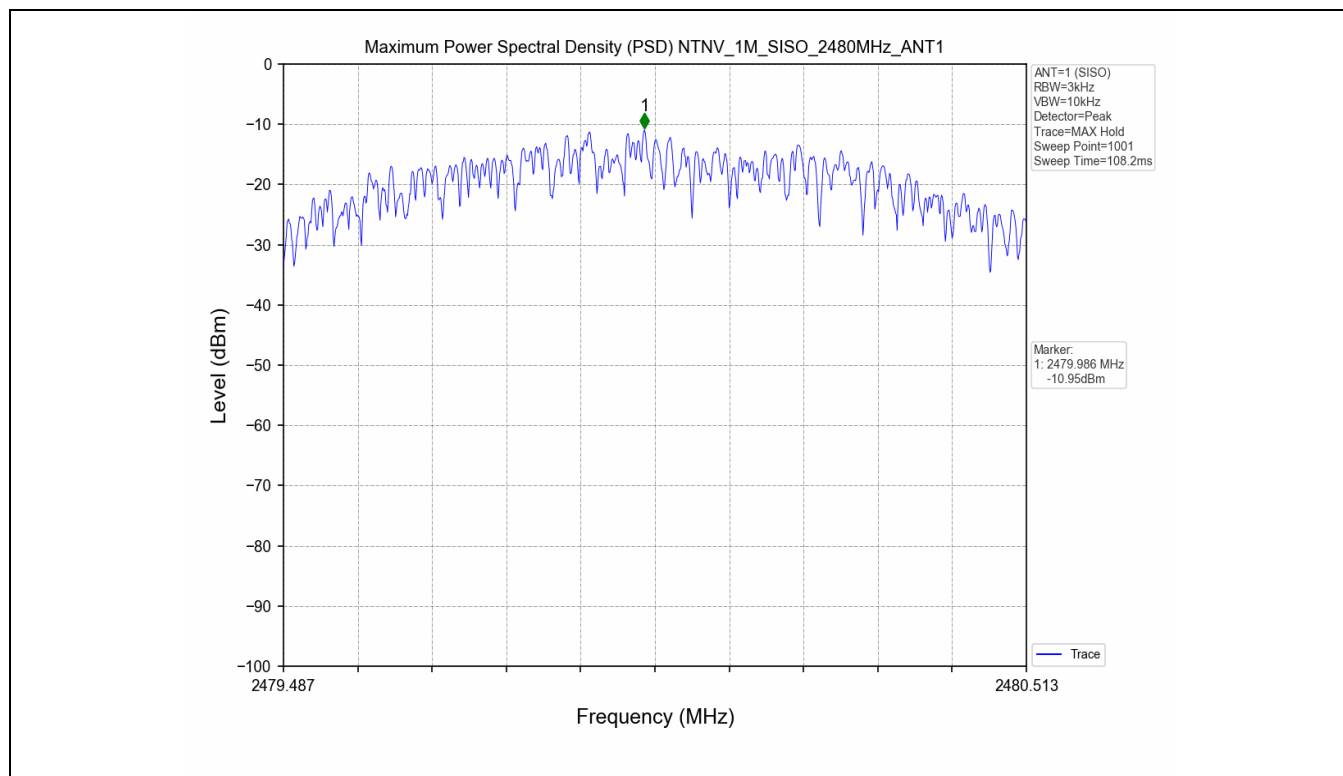
4. Maximum Power Spectral Density (PSD)

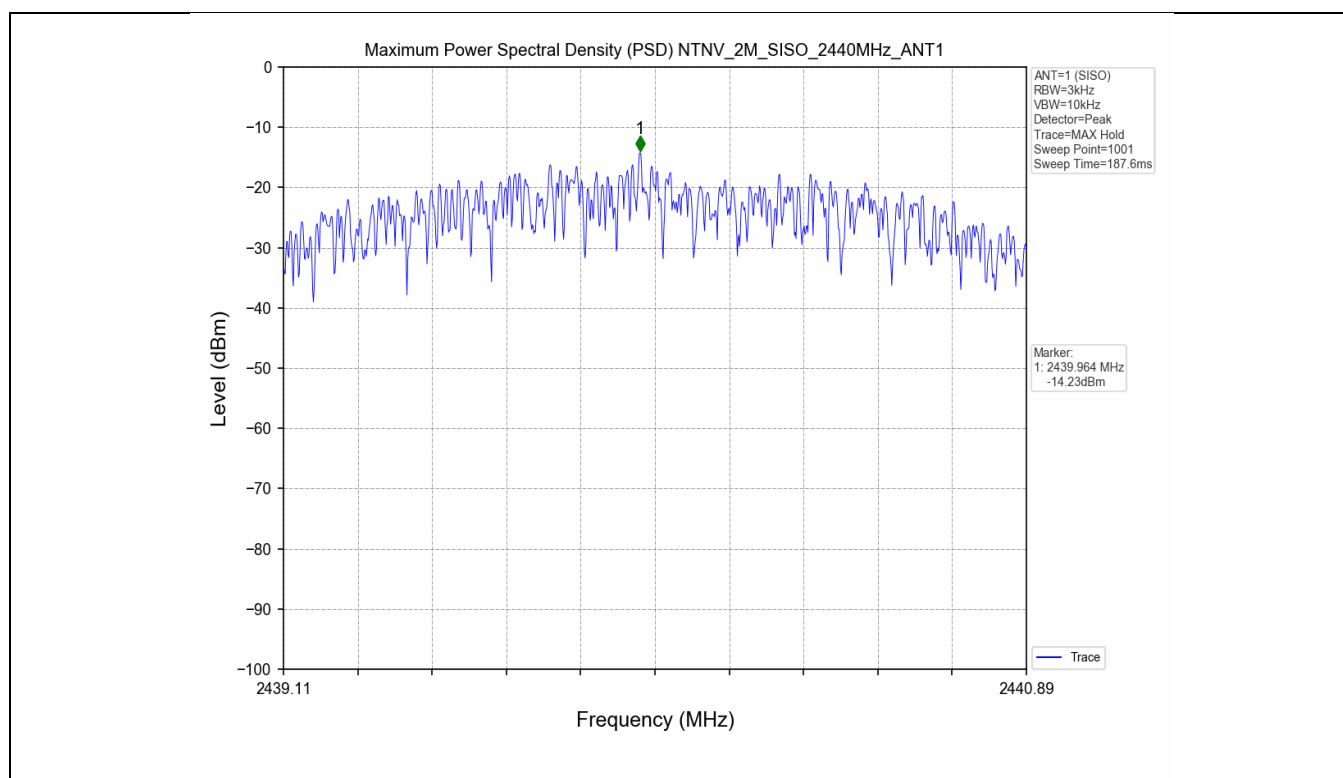
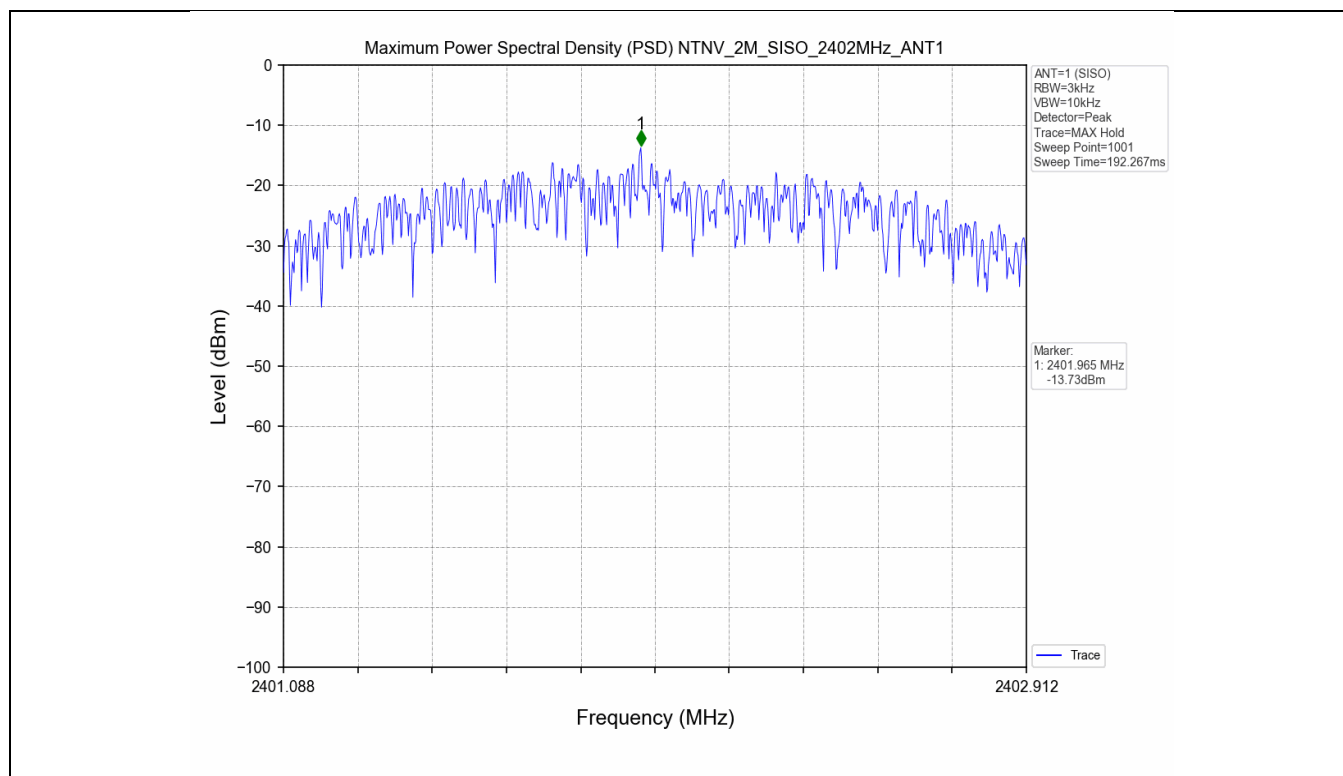
4.1 Test Result

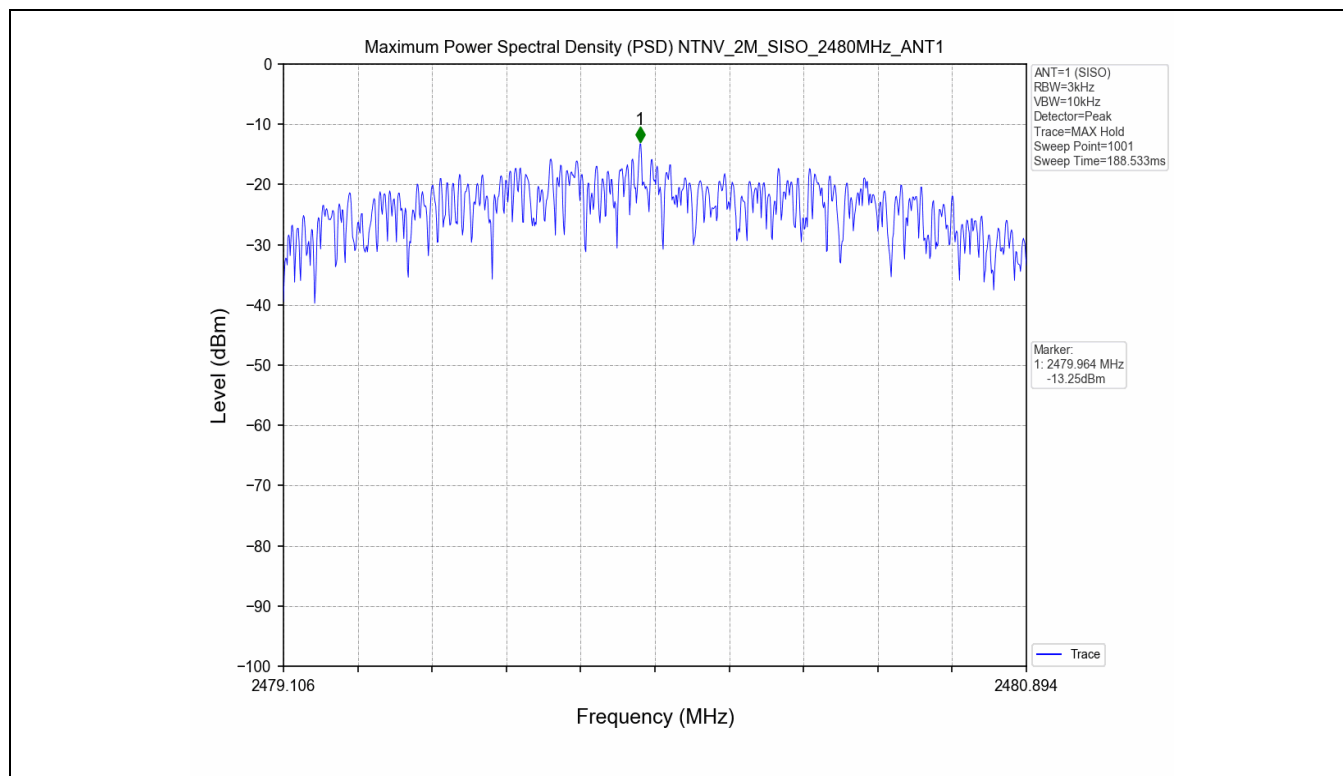
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
1M	2402	SISO	-11.05	≤ 8	PASS
	2440	SISO	-11.71	≤ 8	PASS
	2480	SISO	-10.95	≤ 8	PASS
2M	2402	SISO	-13.73	≤ 8	PASS
	2440	SISO	-14.23	≤ 8	PASS
	2480	SISO	-13.25	≤ 8	PASS

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
1M	2402	SISO	1	Refer to test graph	-12.01	PASS
	2440	SISO	1	Refer to test graph	-12.01	PASS
	2480	SISO	1	Refer to test graph	-12.01	PASS
2M	2402	SISO	1	Refer to test graph	-12.46	PASS
	2440	SISO	1	Refer to test graph	-12.46	PASS
	2480	SISO	1	Refer to test graph	-12.46	PASS

5.2 Test Graph

