

Appendix for 15.247

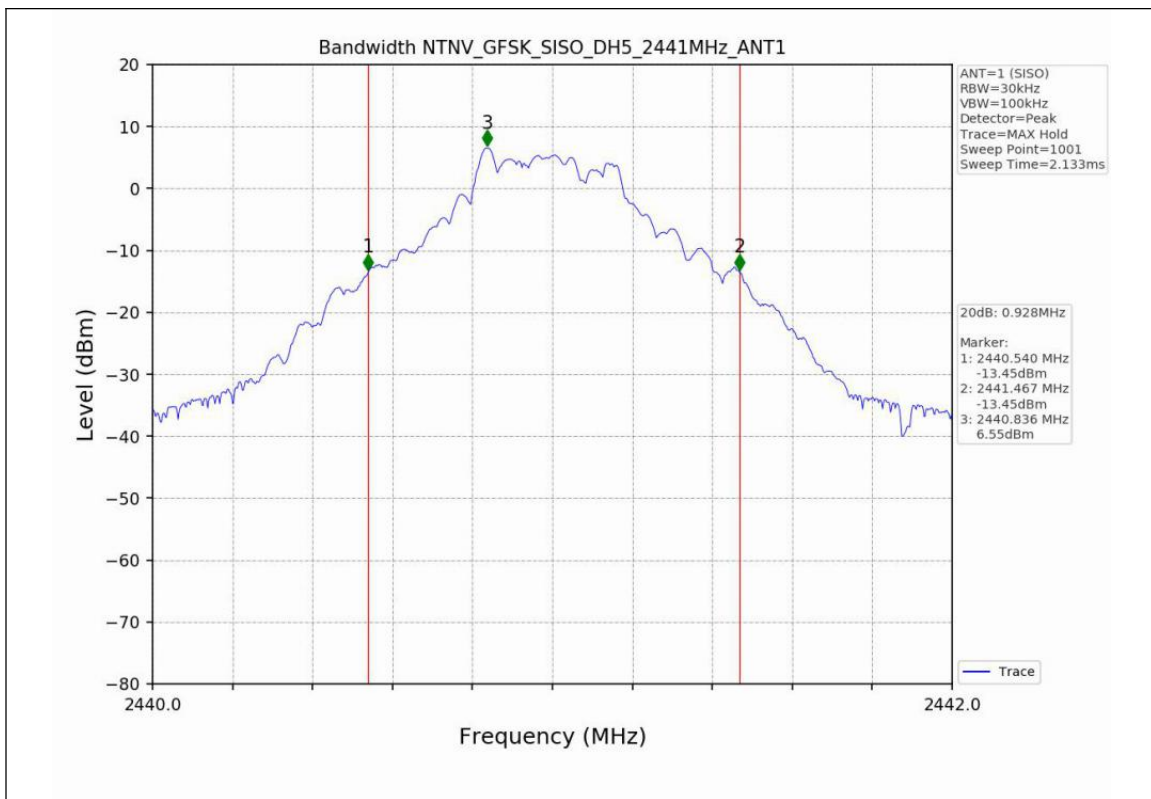
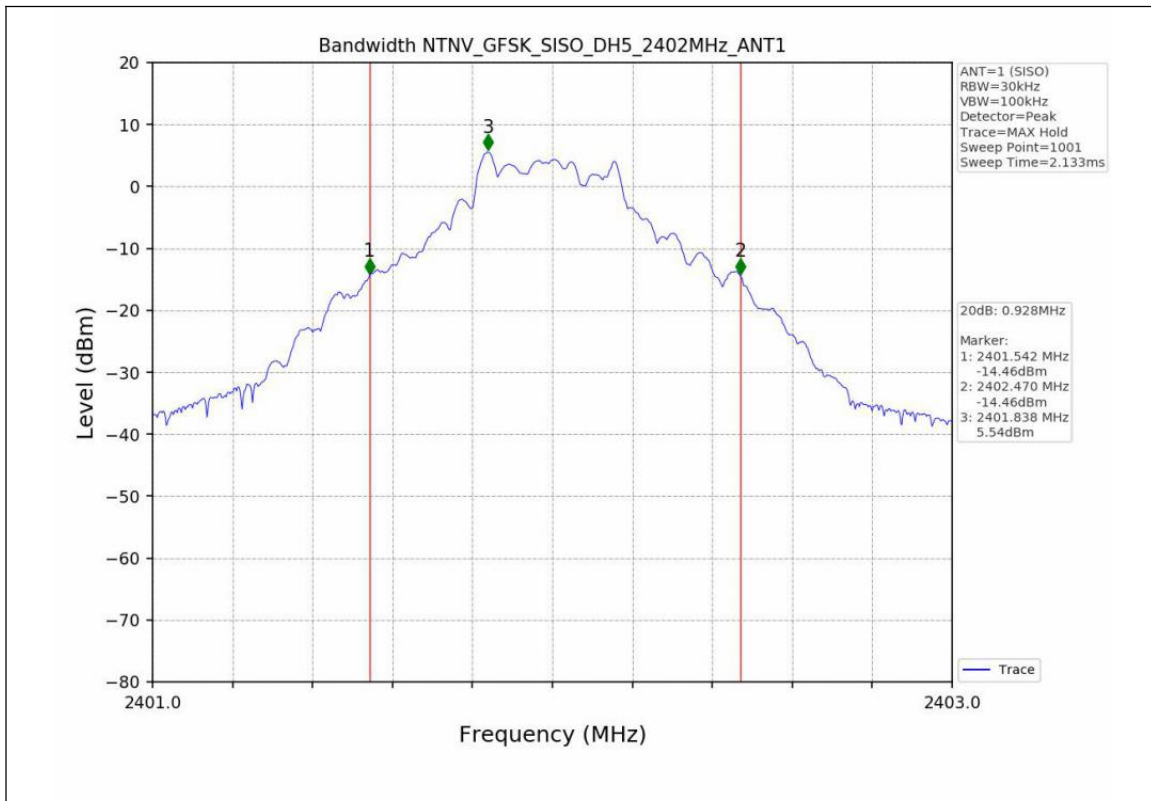
1. Bandwidth

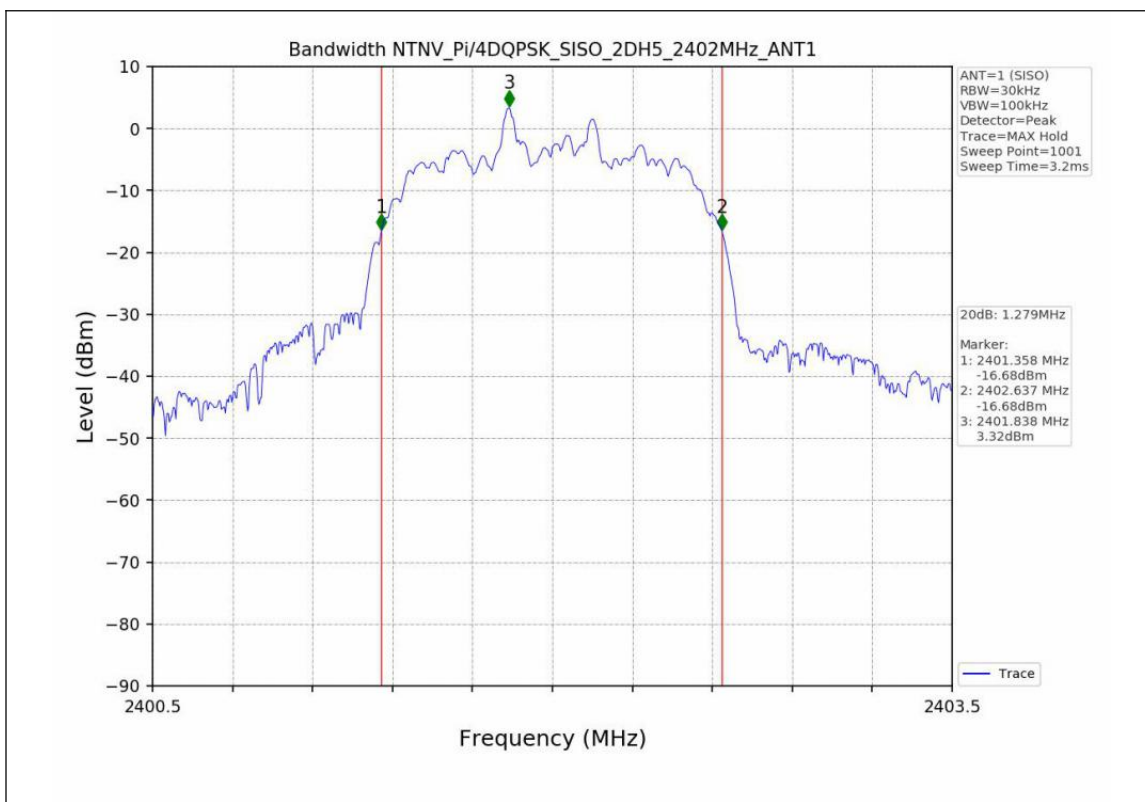
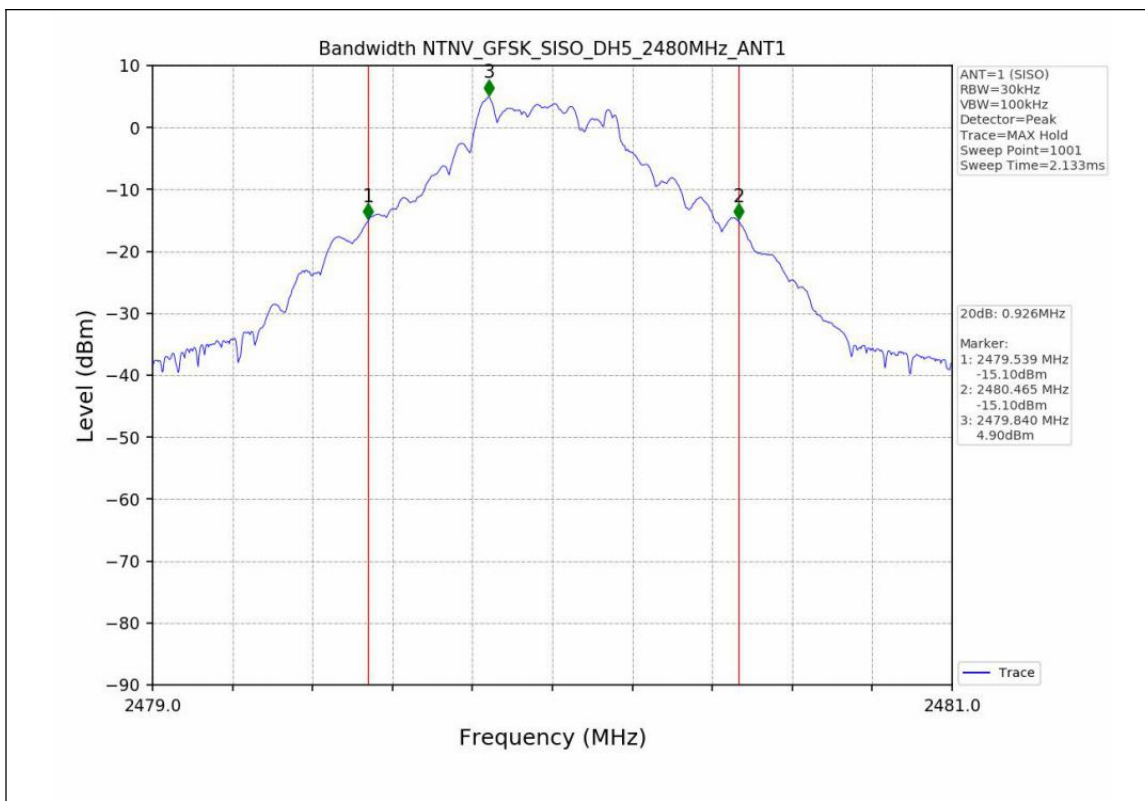
1.1 Test Result

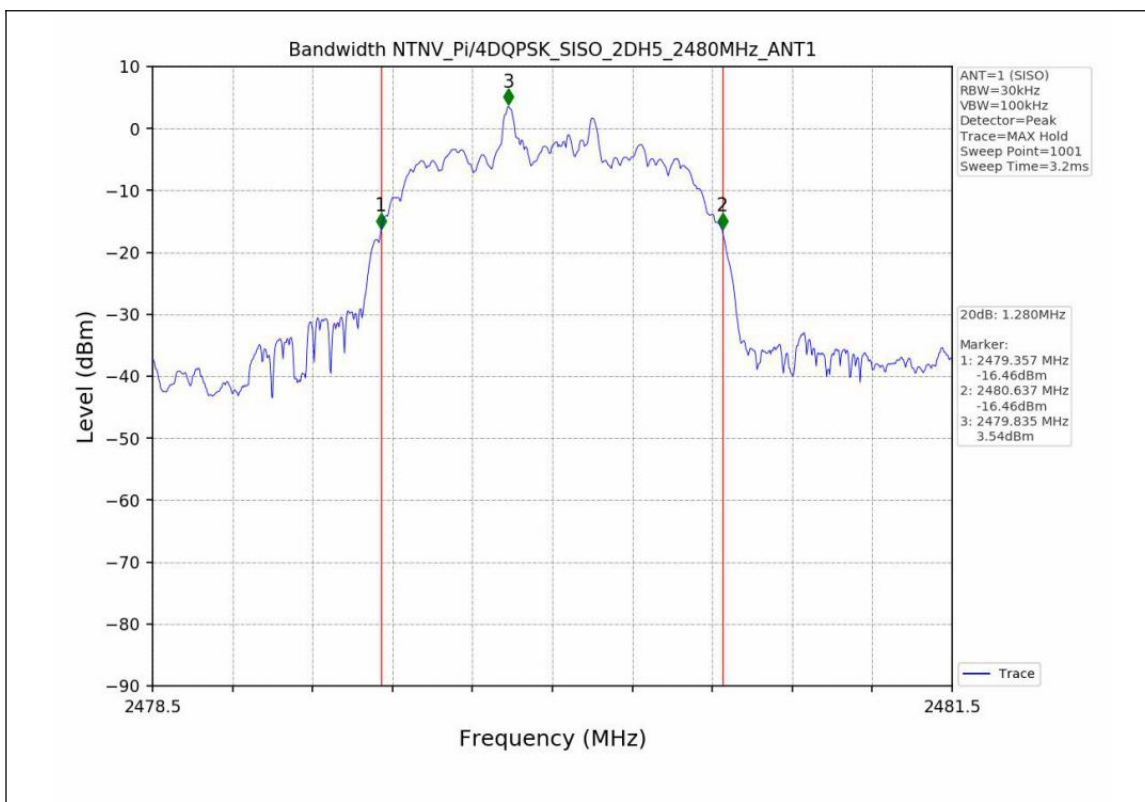
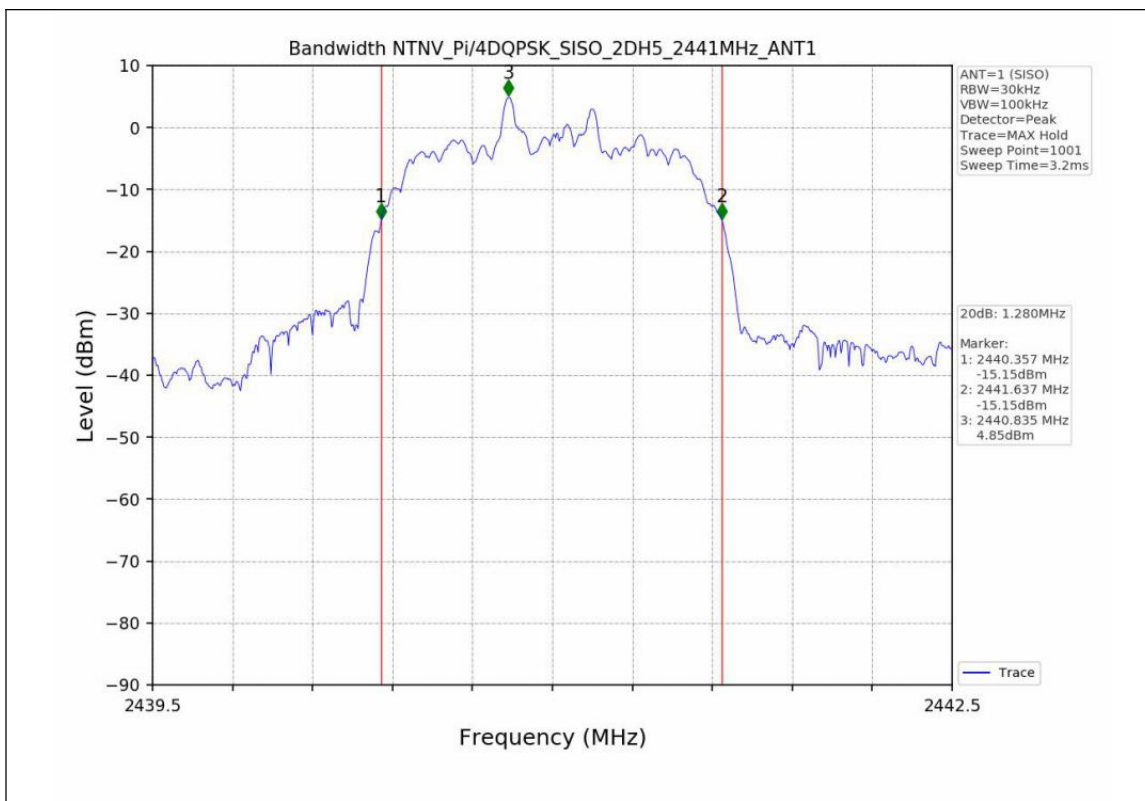
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.928	PASS
	2441	SISO	1	0.928	PASS
	2480	SISO	1	0.926	PASS
Pi/4DQPSK	2402	SISO	1	1.279	PASS
	2441	SISO	1	1.280	PASS
	2480	SISO	1	1.280	PASS
8DPSK	2402	SISO	1	1.288	PASS
	2441	SISO	1	1.288	PASS
	2480	SISO	1	1.289	PASS

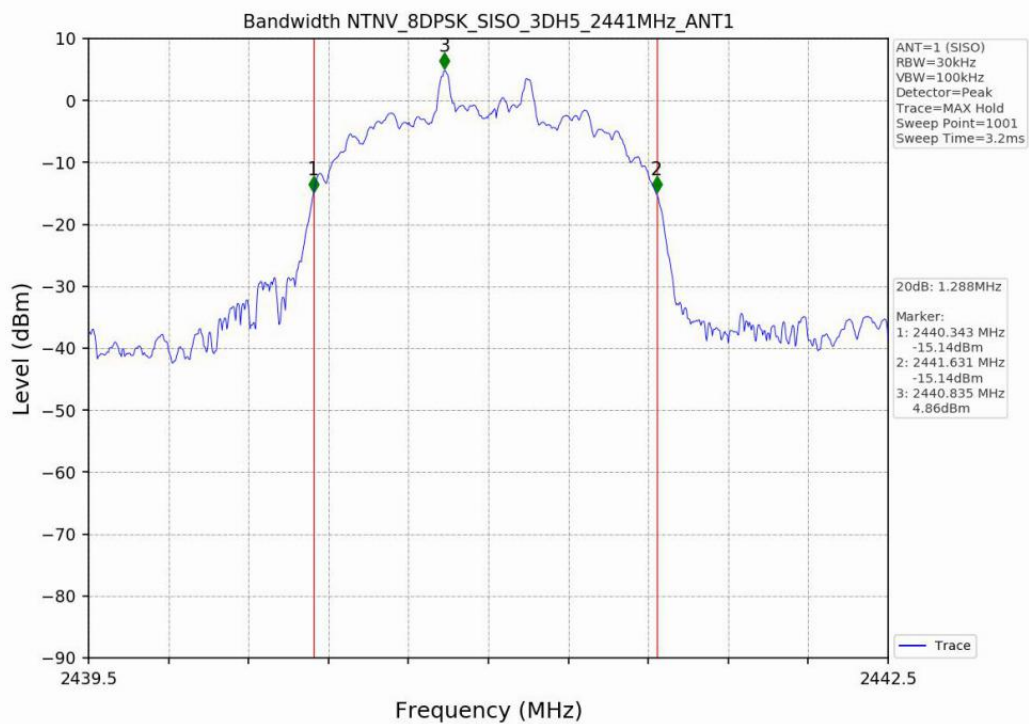
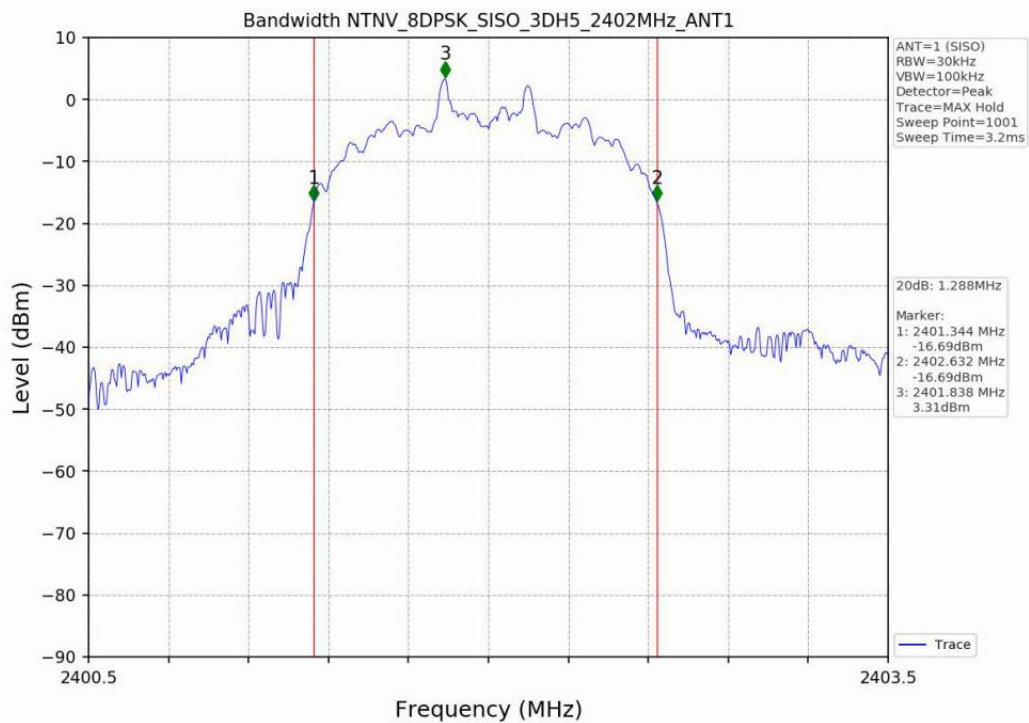
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.819	Only for Report Use
	2441	SISO	1	0.817	Only for Report Use
	2480	SISO	1	0.817	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.186	Only for Report Use
	2441	SISO	1	1.189	Only for Report Use
	2480	SISO	1	1.188	Only for Report Use
8DPSK	2402	SISO	1	1.187	Only for Report Use
	2441	SISO	1	1.195	Only for Report Use
	2480	SISO	1	1.192	Only for Report Use

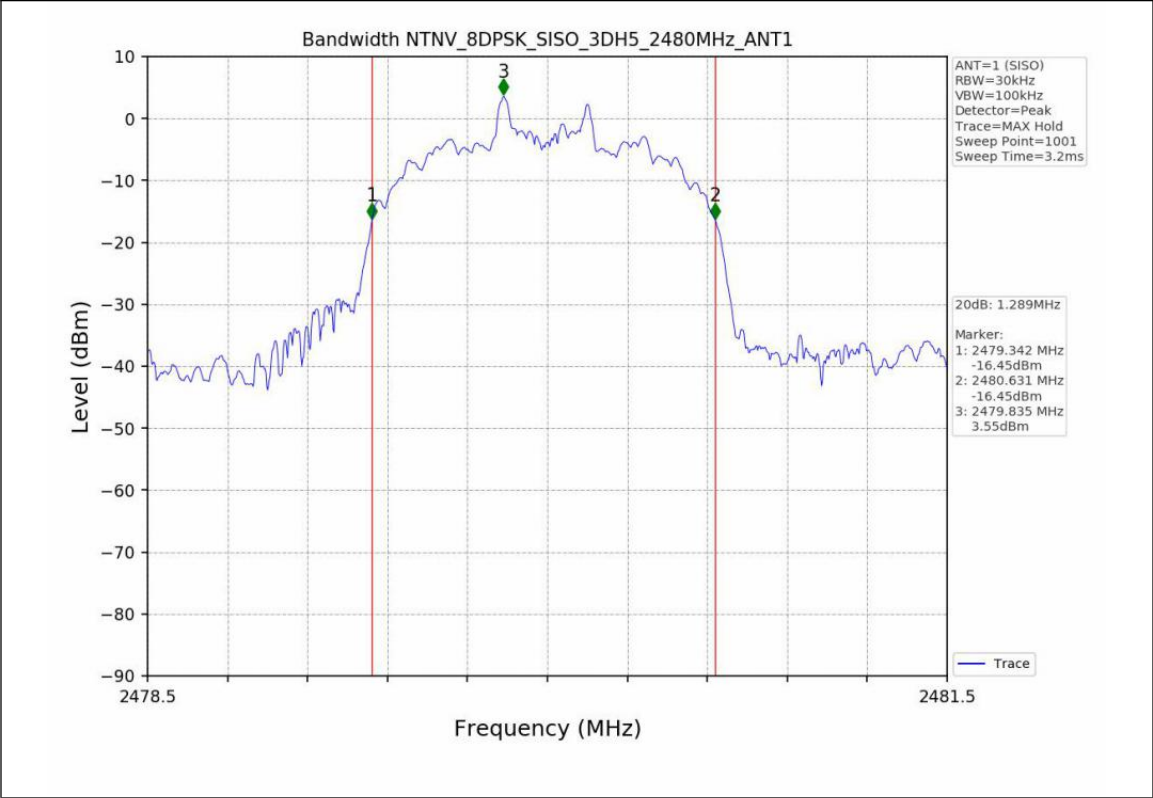
1.2 Test Graph - 20dB Bandwidth



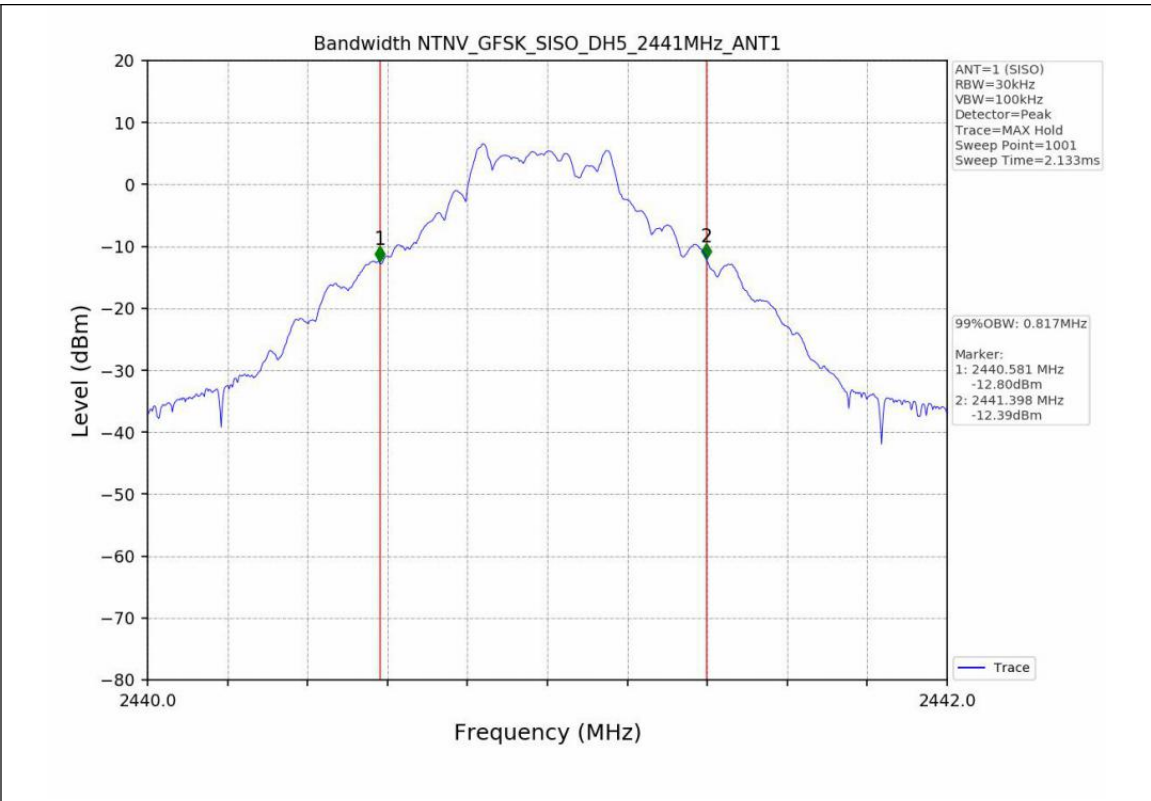
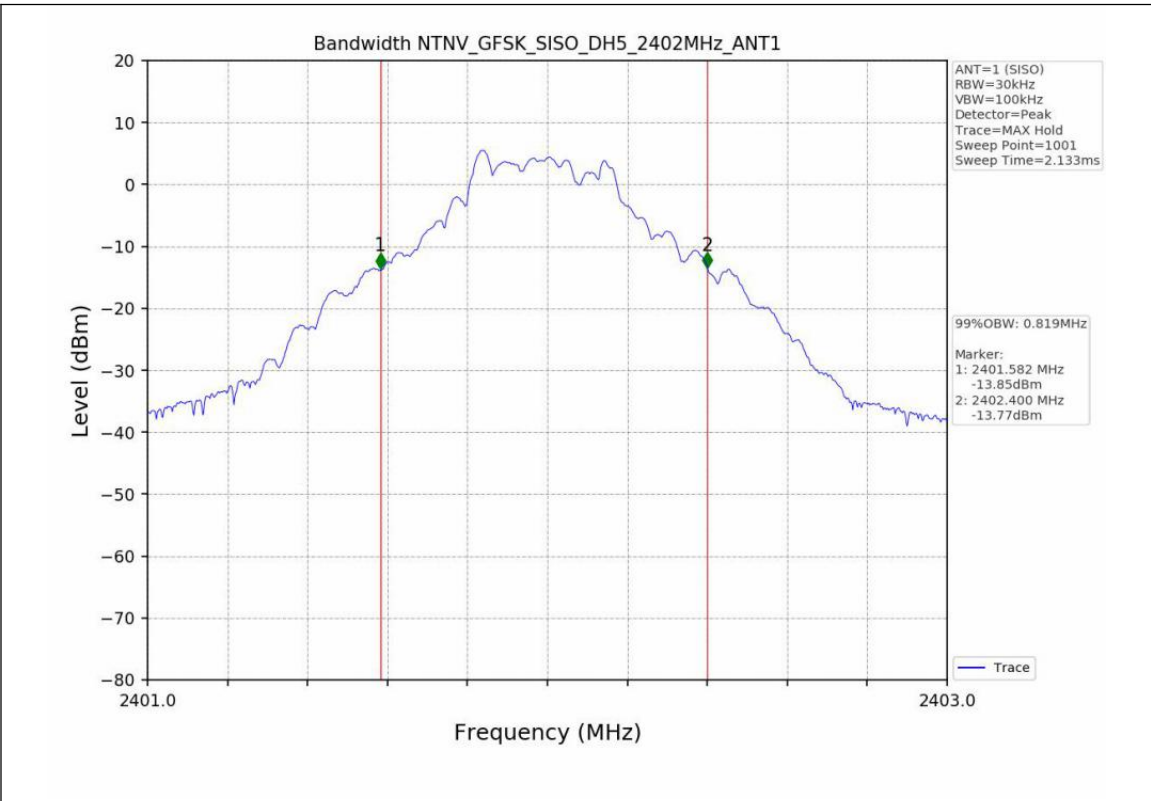


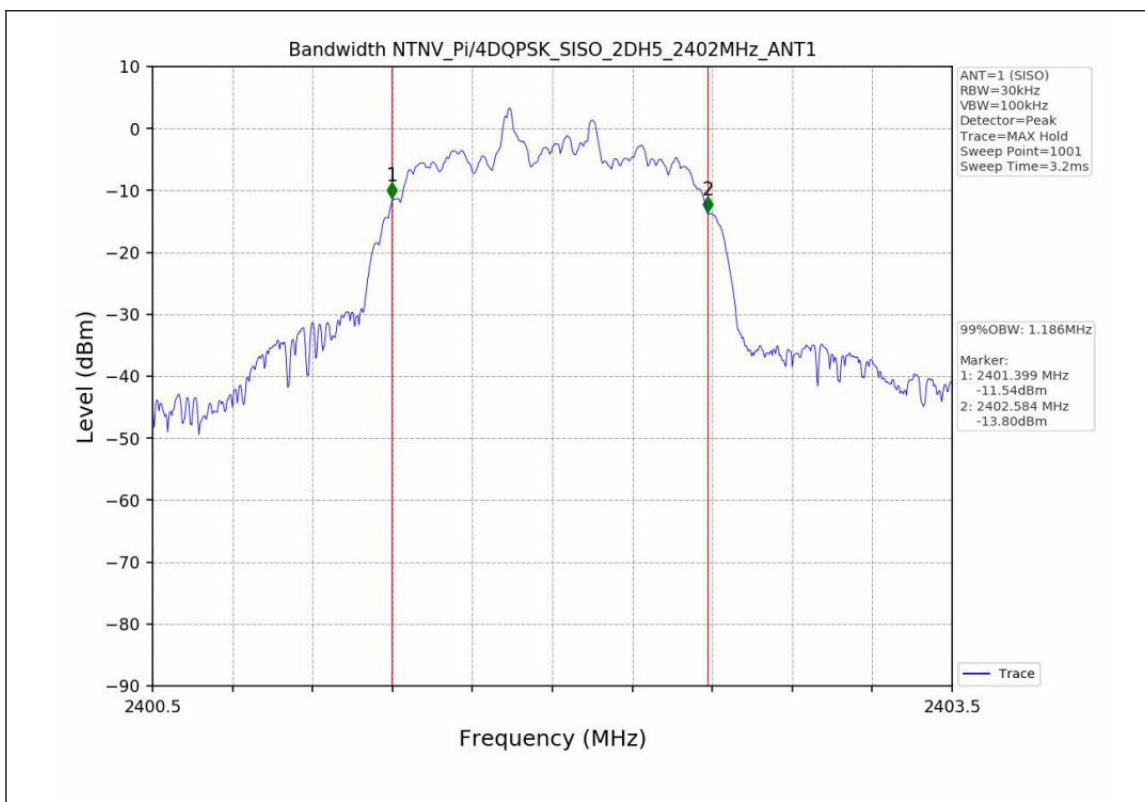
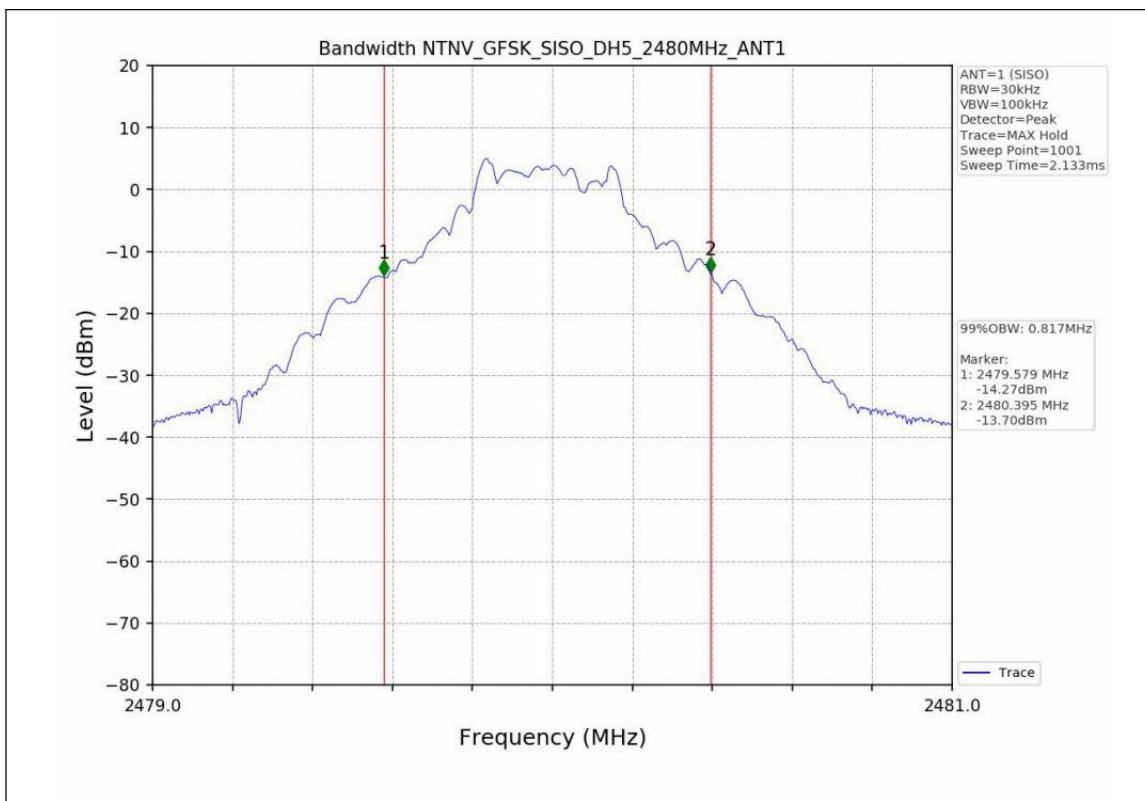


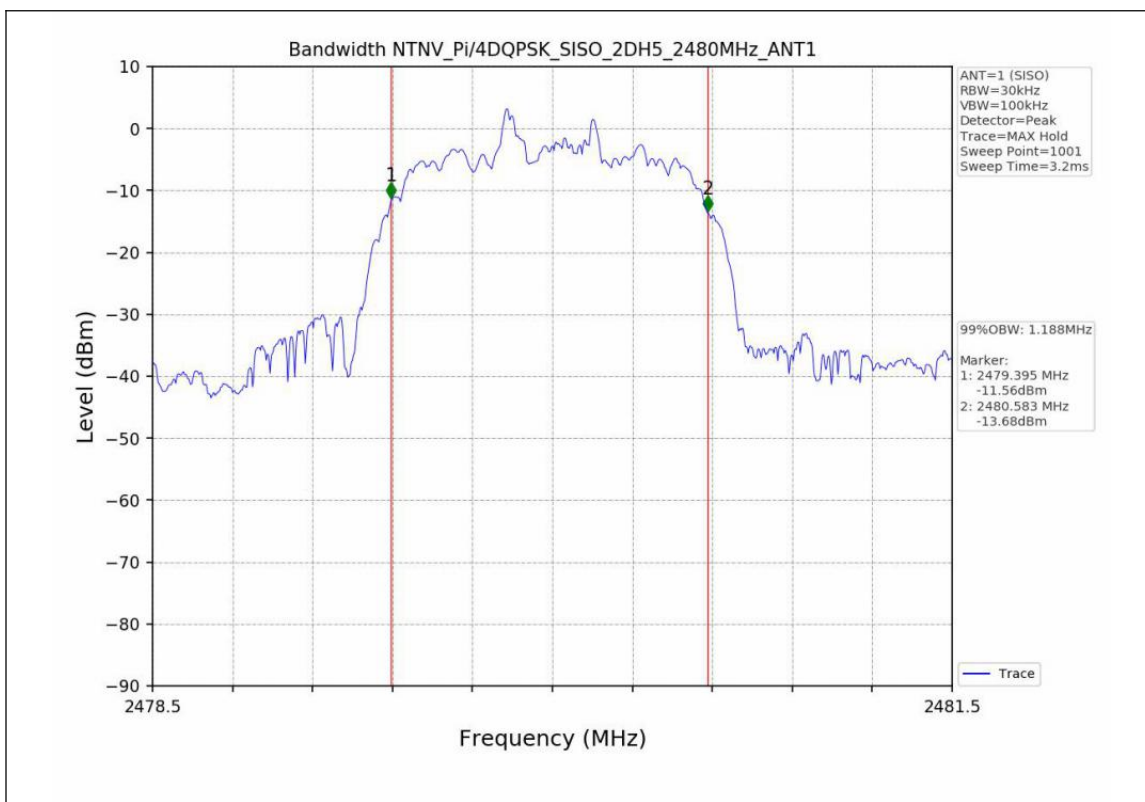
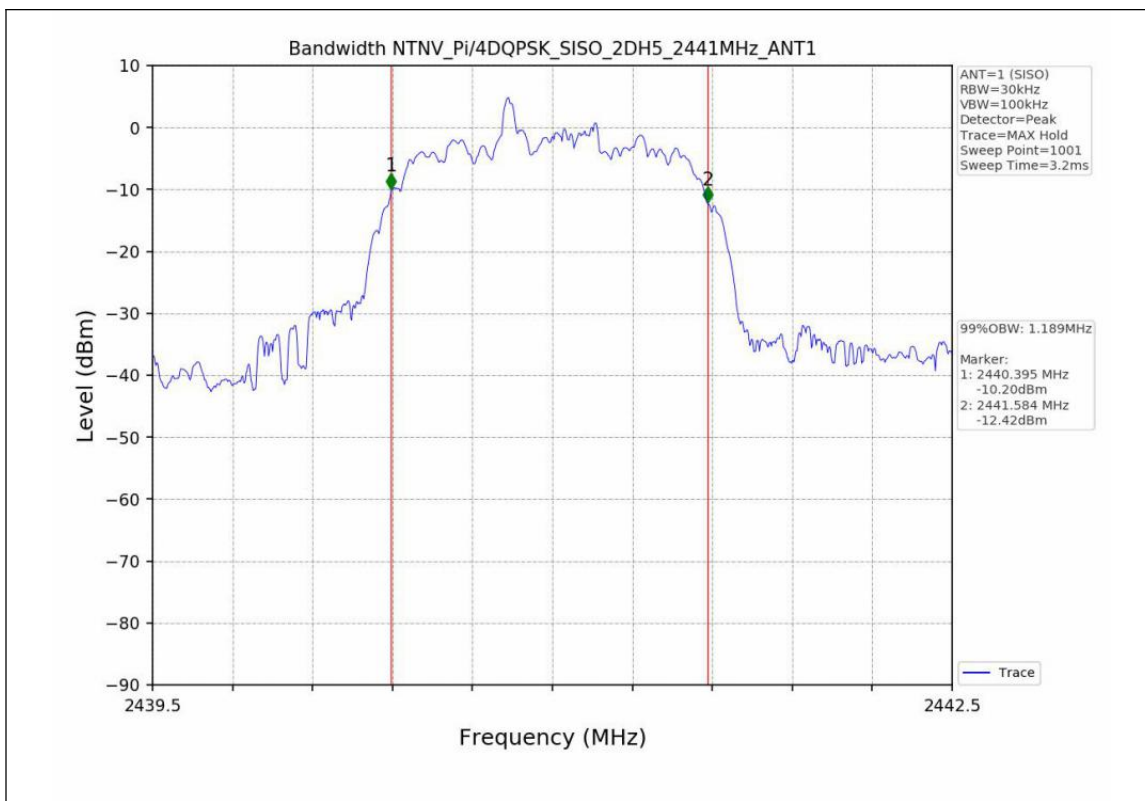


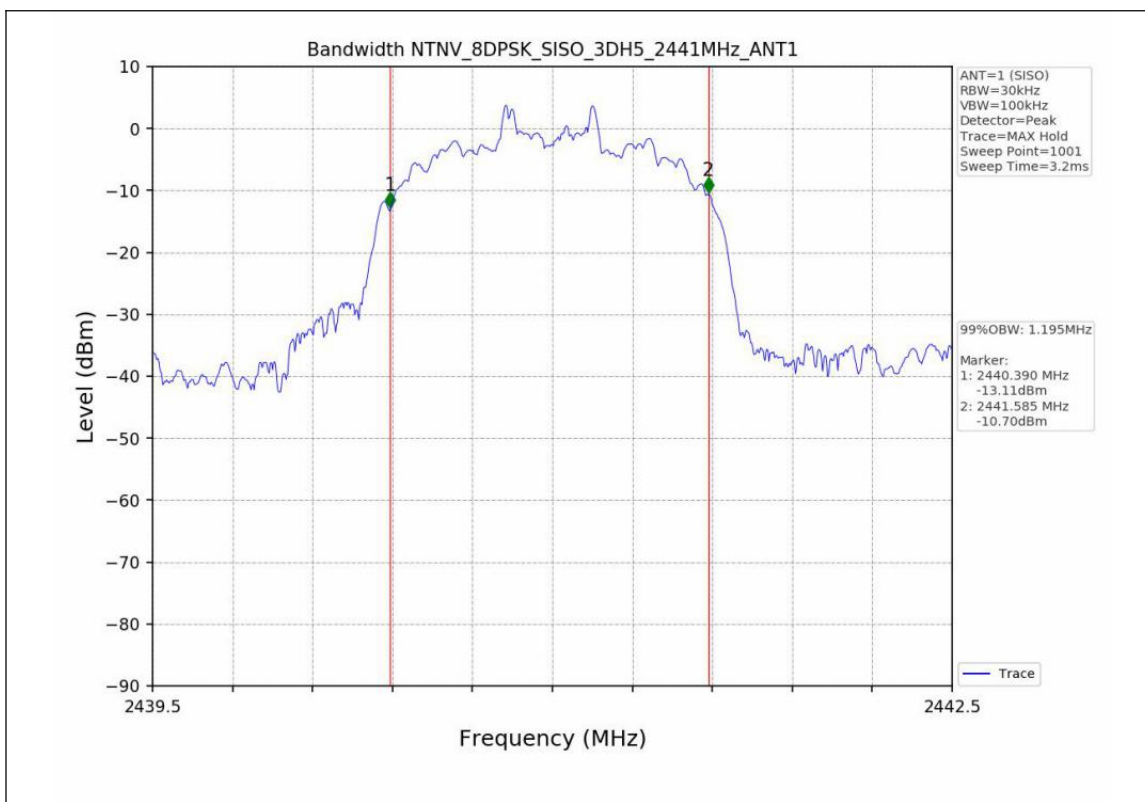
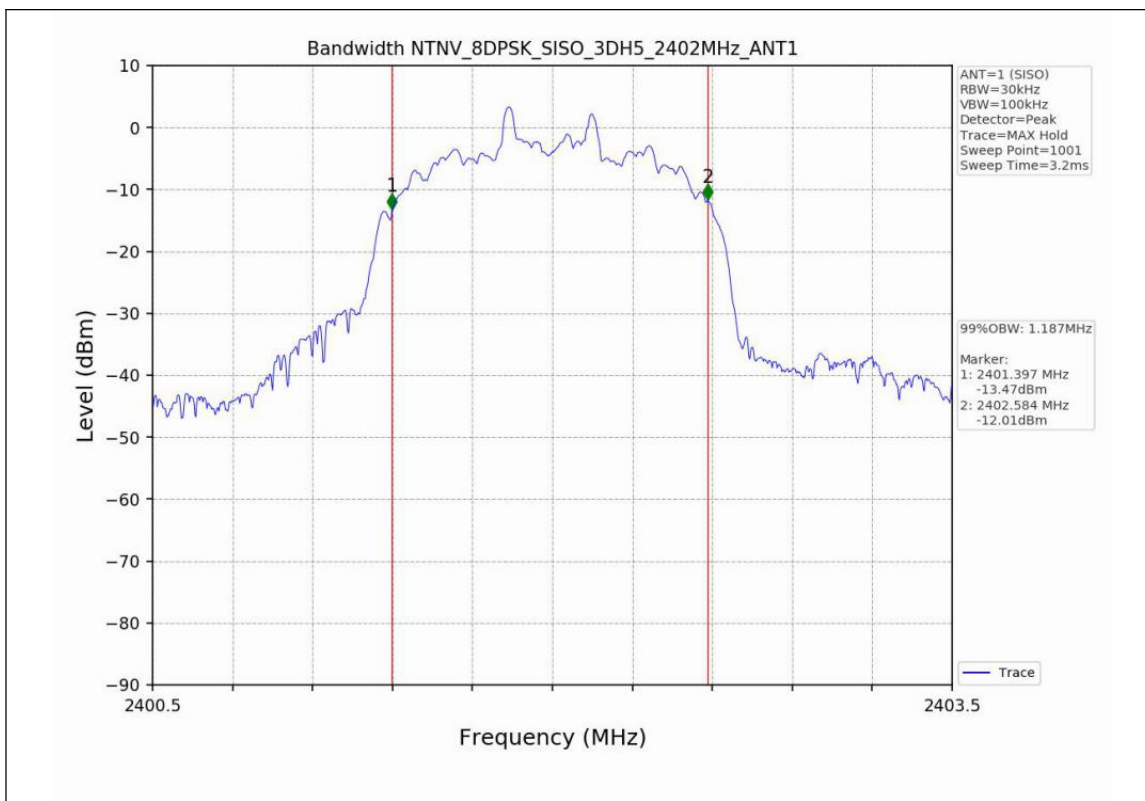


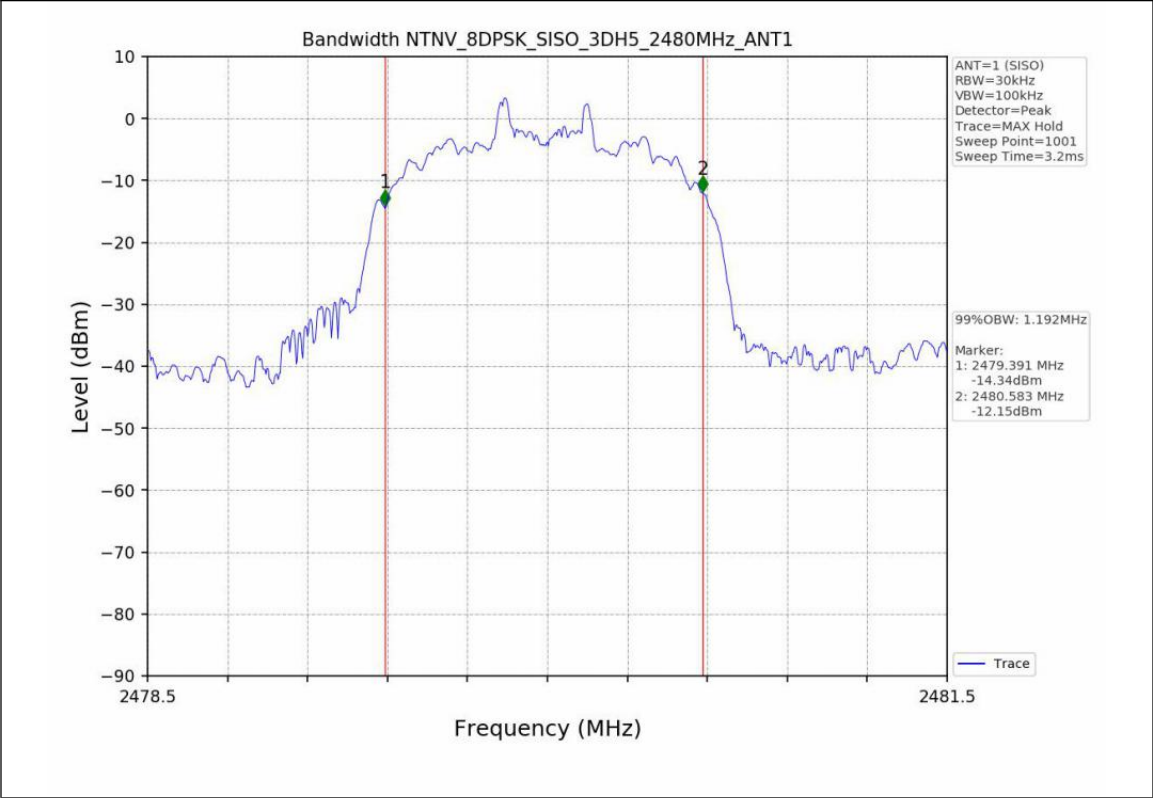
1.3 Test Graph - 99% Occupied Bandwidth









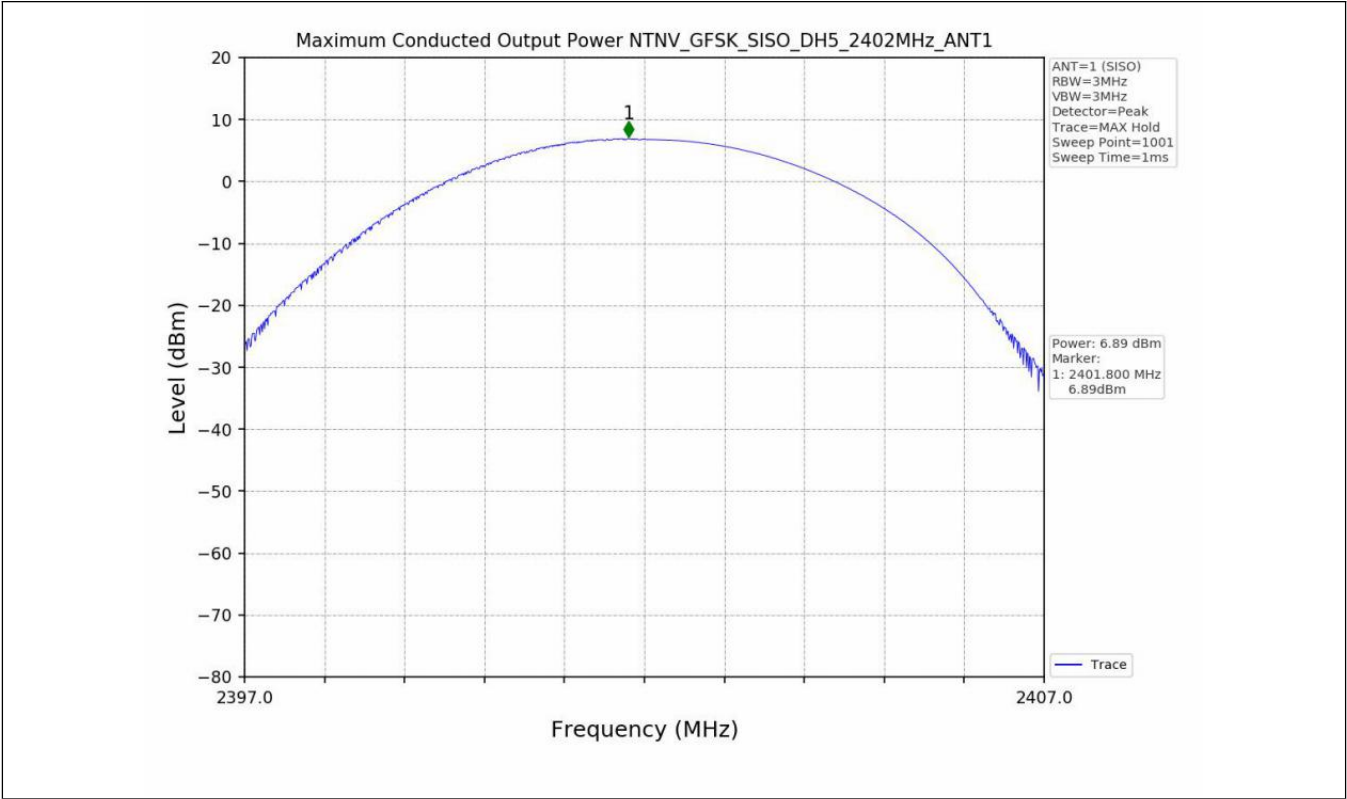


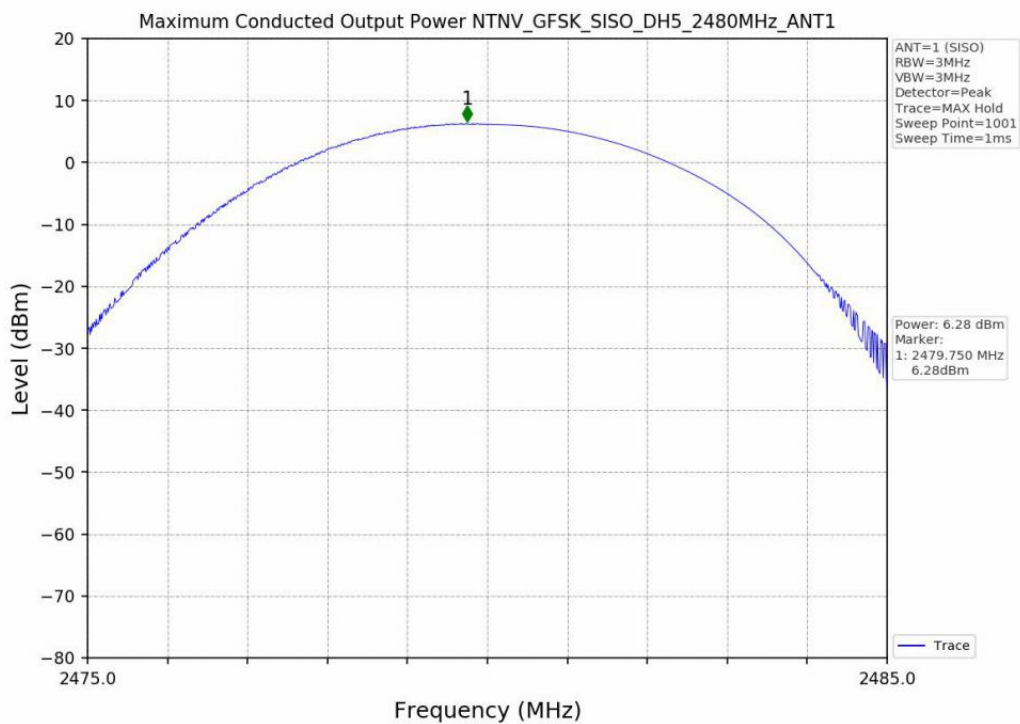
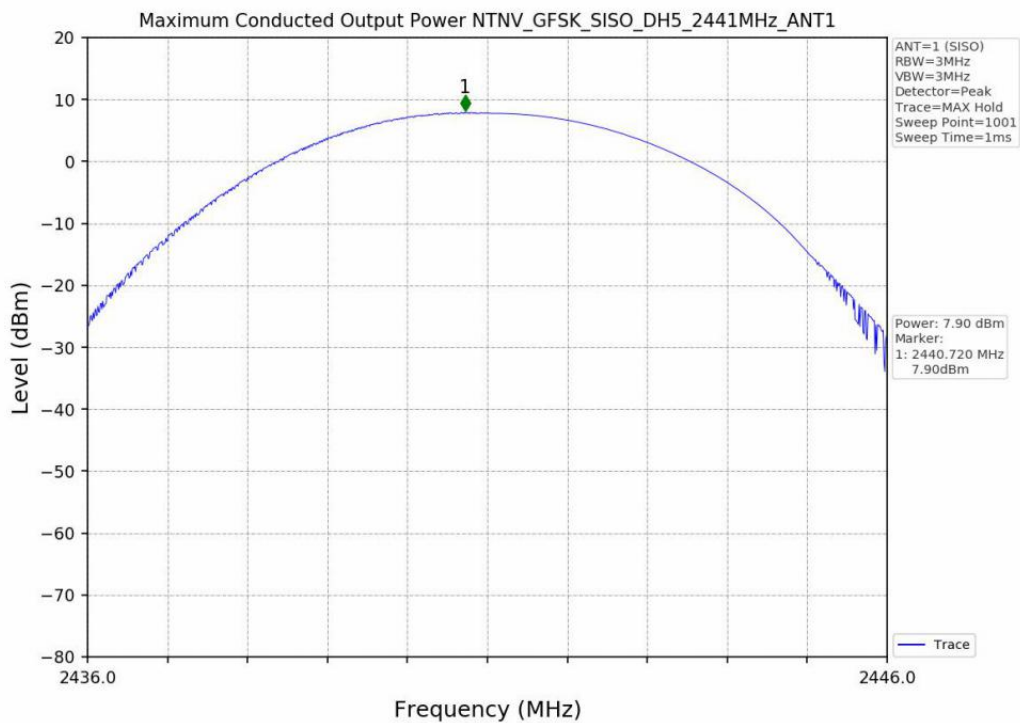
2. Maximum Conducted Output Power

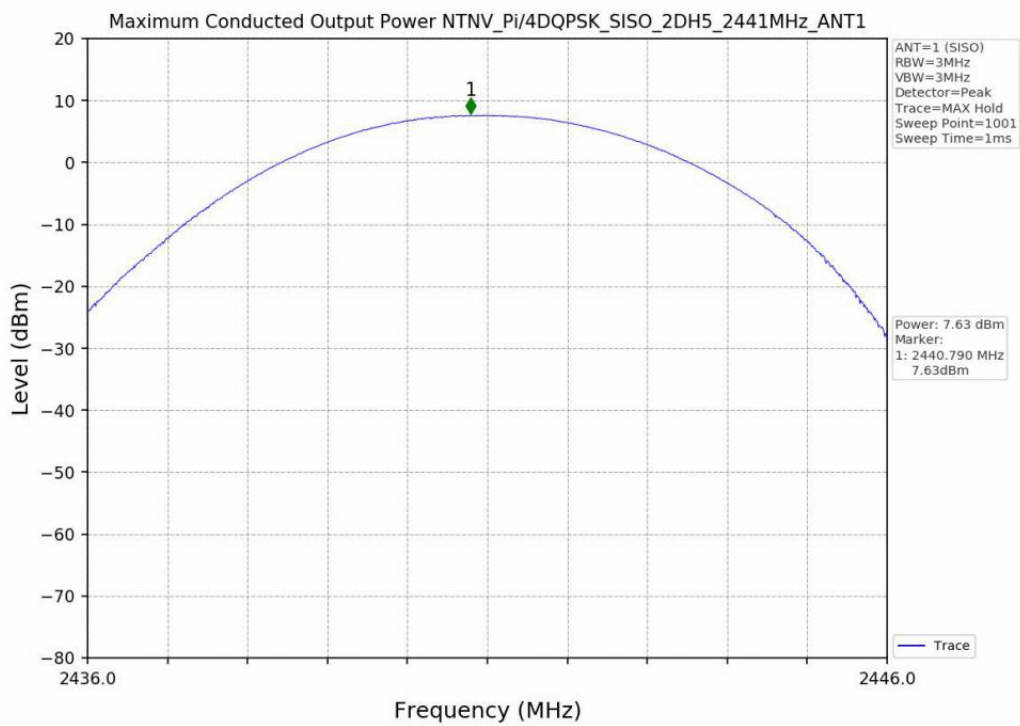
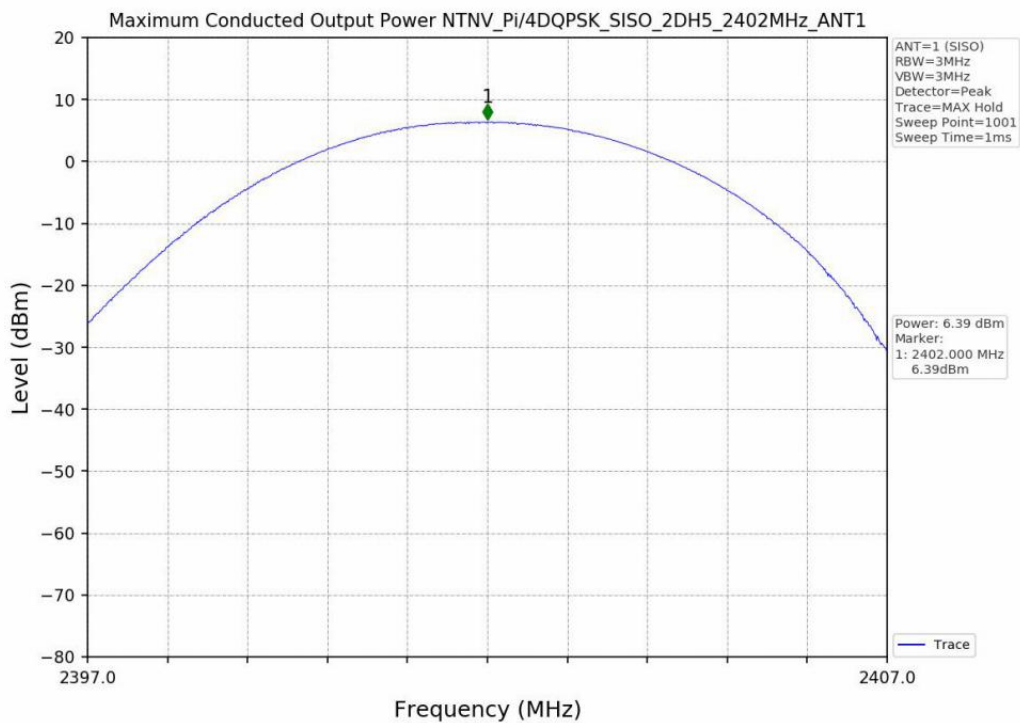
2.1 Test Result

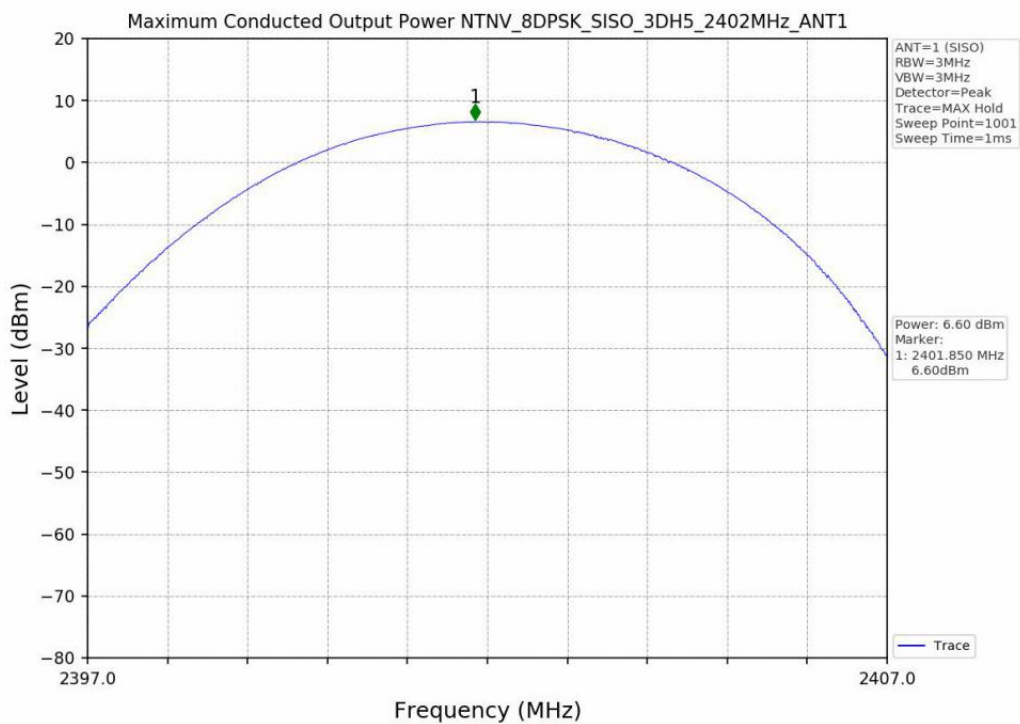
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	6.89	30	PASS
	2441	SISO	7.90	30	PASS
	2480	SISO	6.28	30	PASS
Pi/4DQPSK	2402	SISO	6.39	20.97	PASS
	2441	SISO	7.63	20.97	PASS
	2480	SISO	6.25	20.97	PASS
8DPSK	2402	SISO	6.60	20.97	PASS
	2441	SISO	7.78	20.97	PASS
	2480	SISO	6.44	20.97	PASS

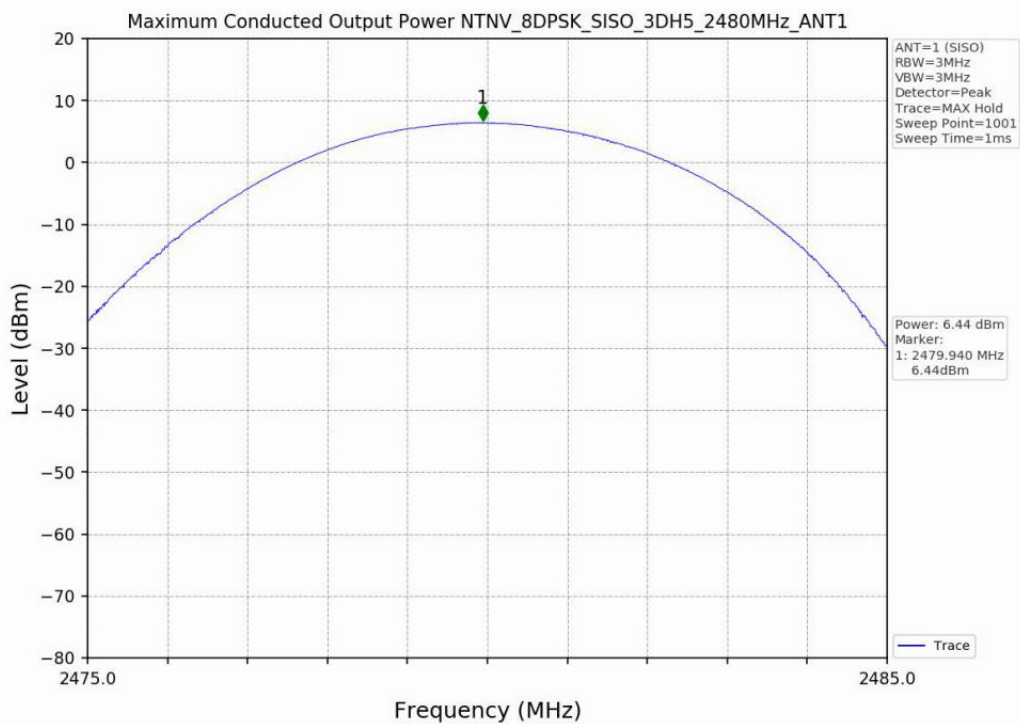
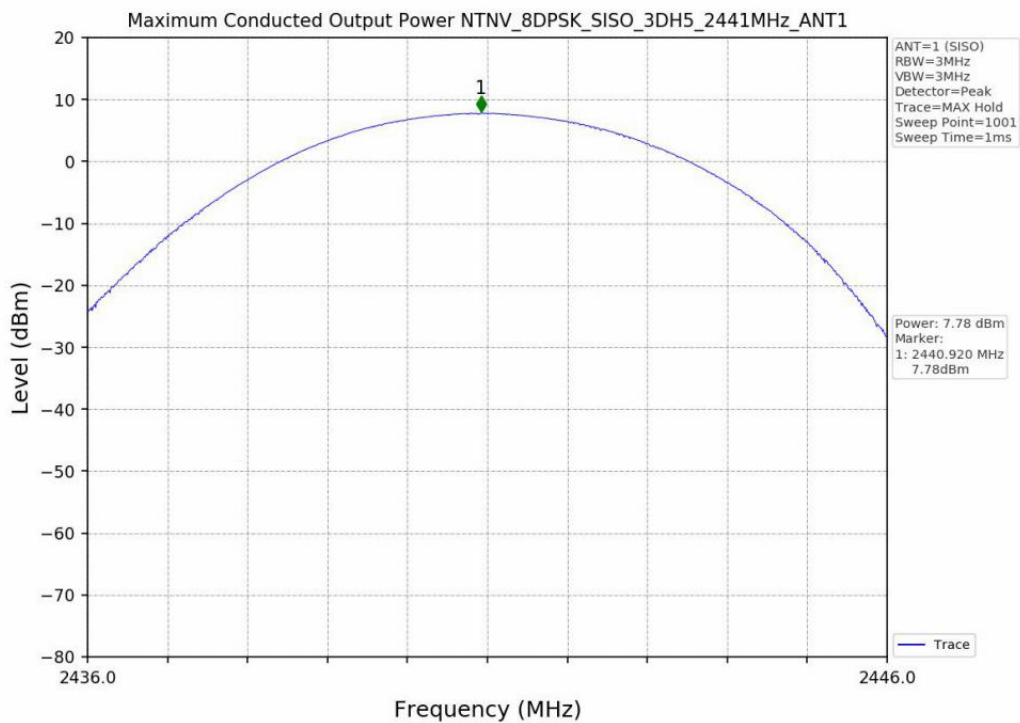
2.2 Test Graph









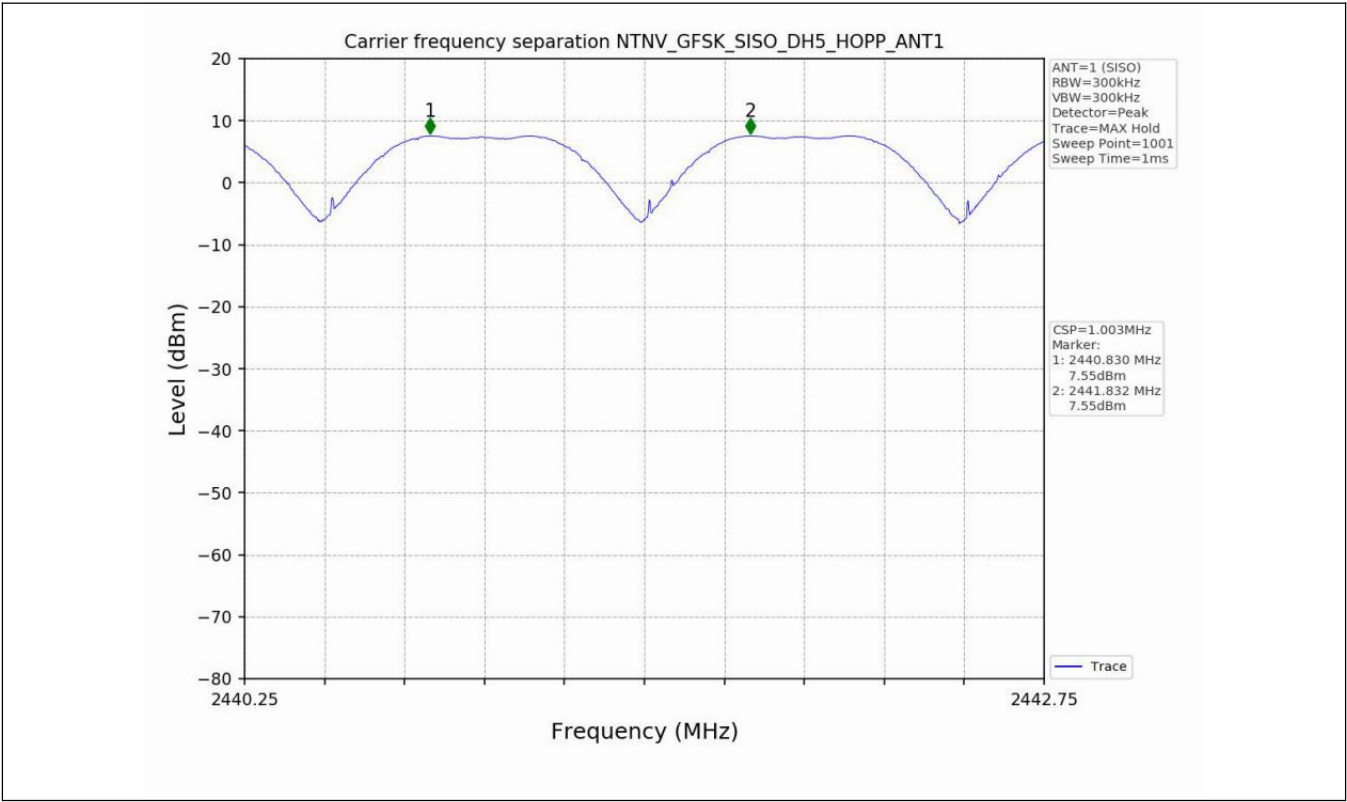


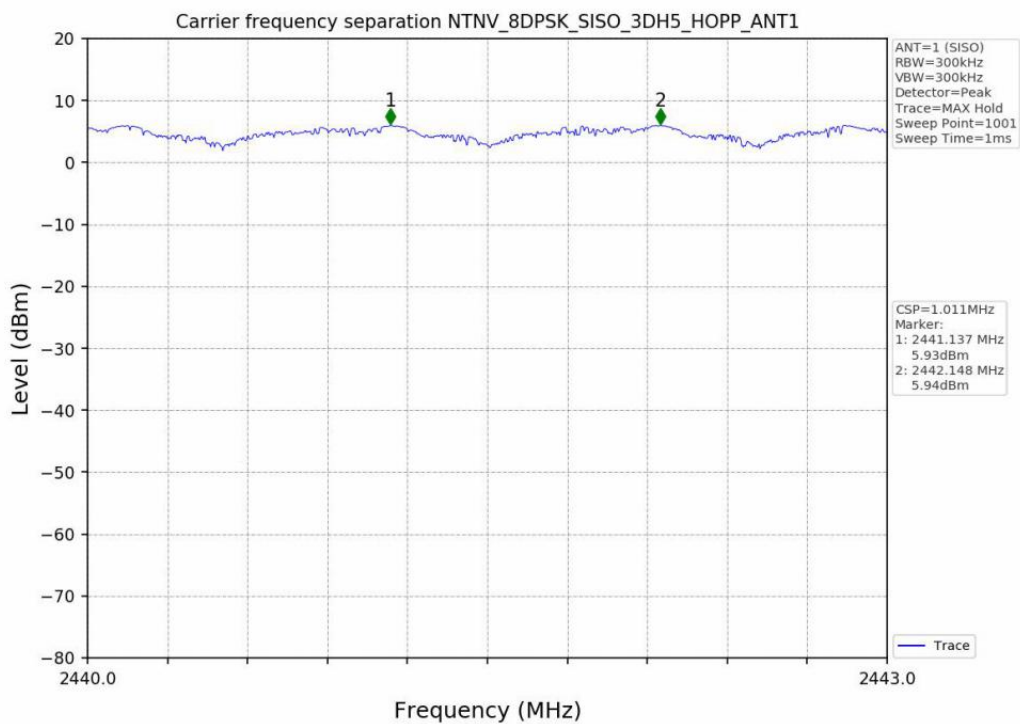
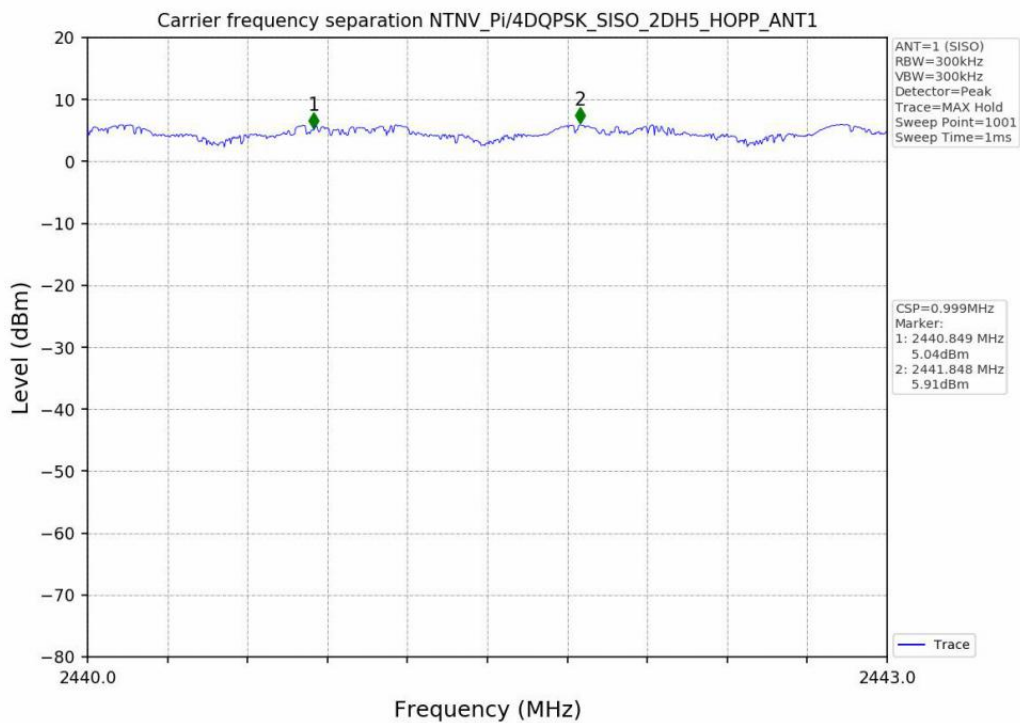
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.003	0.928	≥ 0.928	PASS
Pi/4DQPSK	SISO	1	0.999	1.280	≥ 0.853	PASS
8DPSK	SISO	1	1.011	1.289	≥ 0.859	PASS

3.2 Test Graph



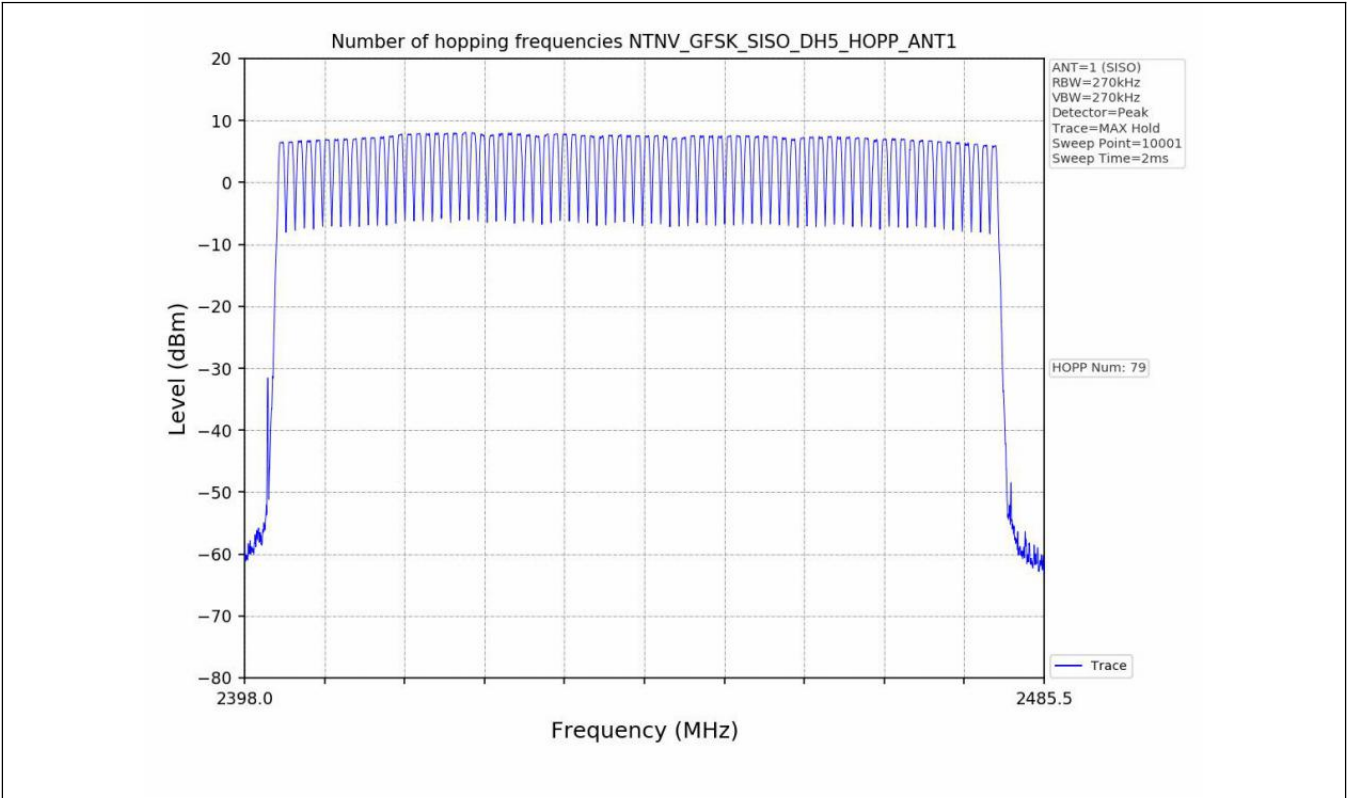


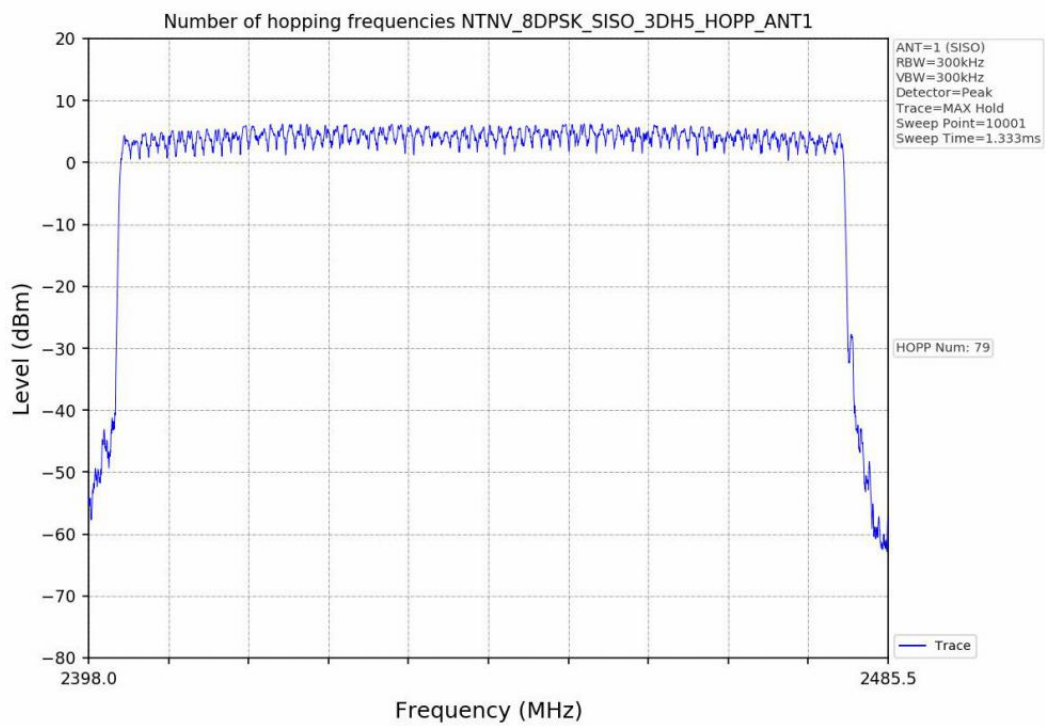
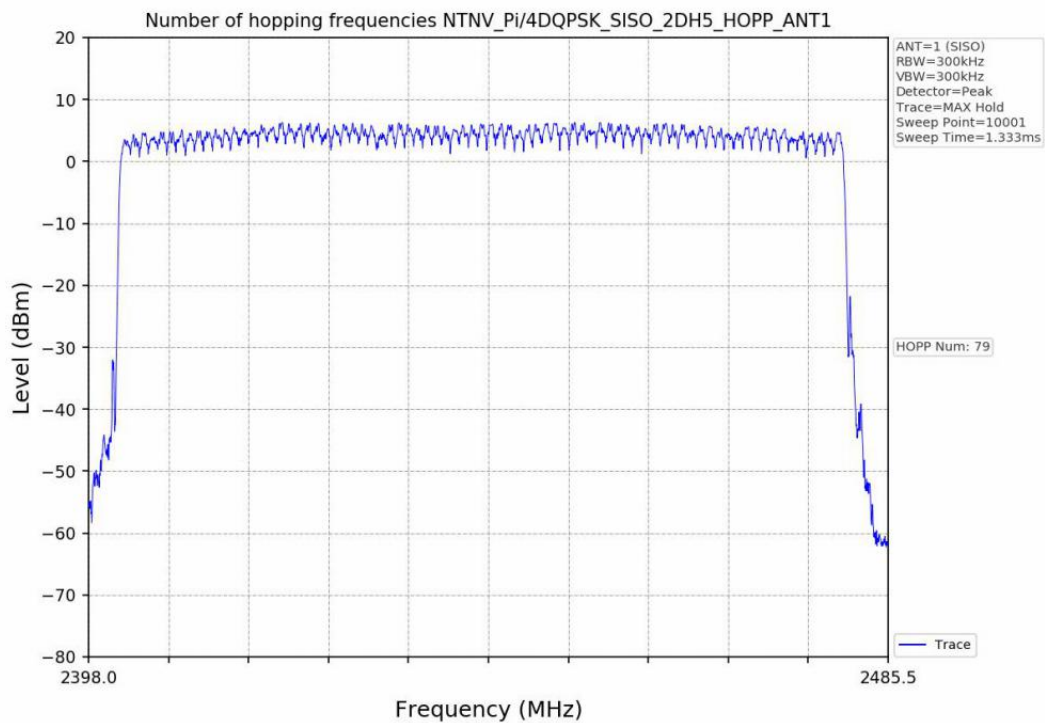
4. Number of hopping frequencies

4.1 Test Result

Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥ 15	PASS
Pi/4DQPSK	SISO	1	79	≥ 15	PASS
8DPSK	SISO	1	79	≥ 15	PASS

4.2 Test Graph



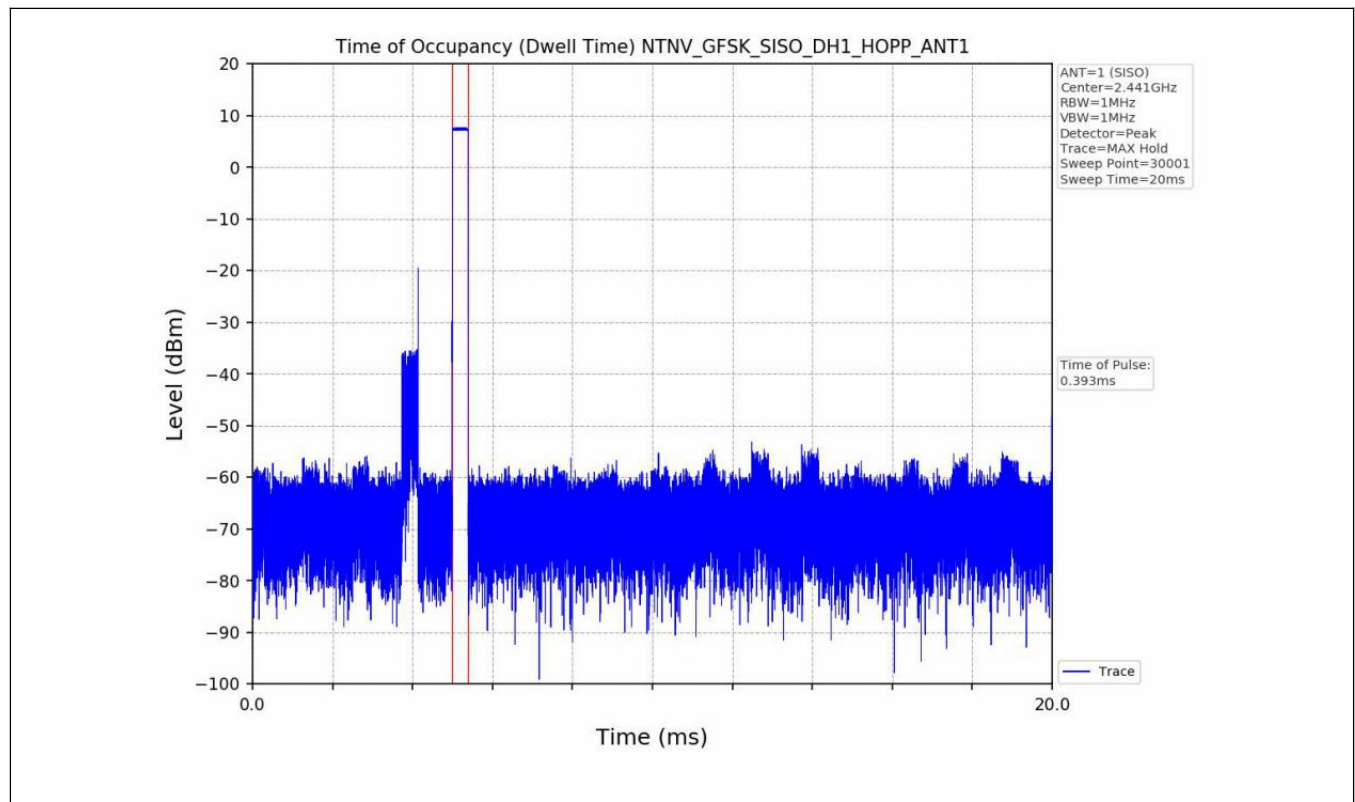


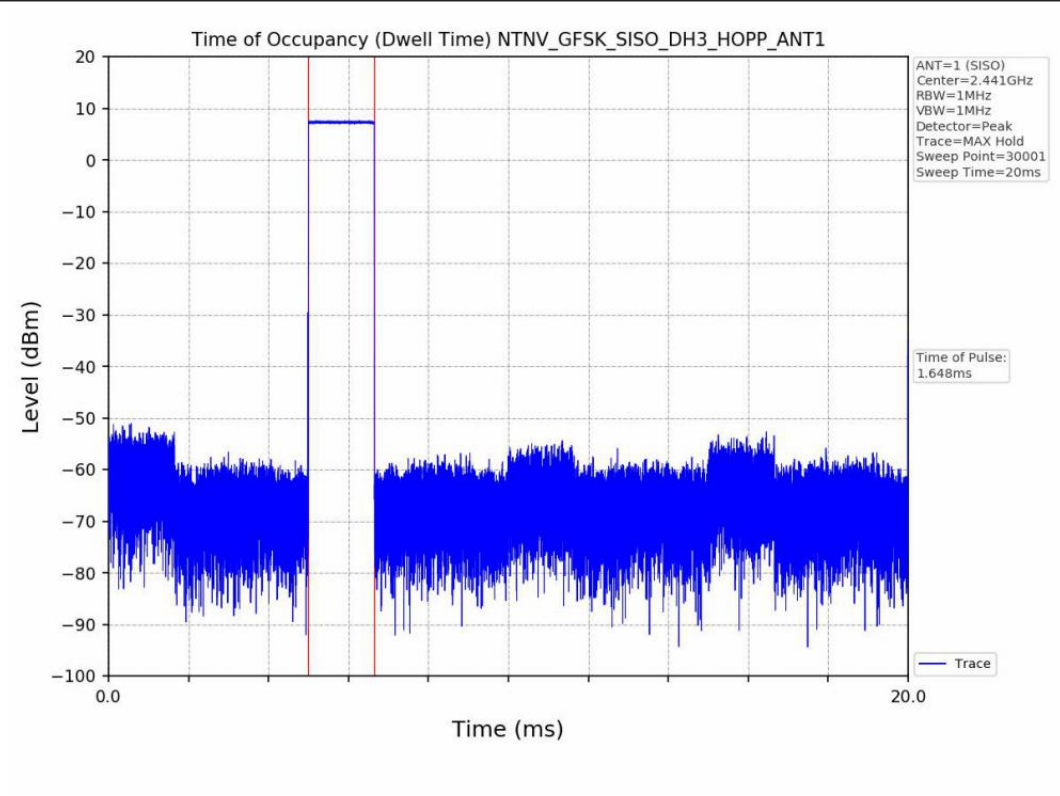
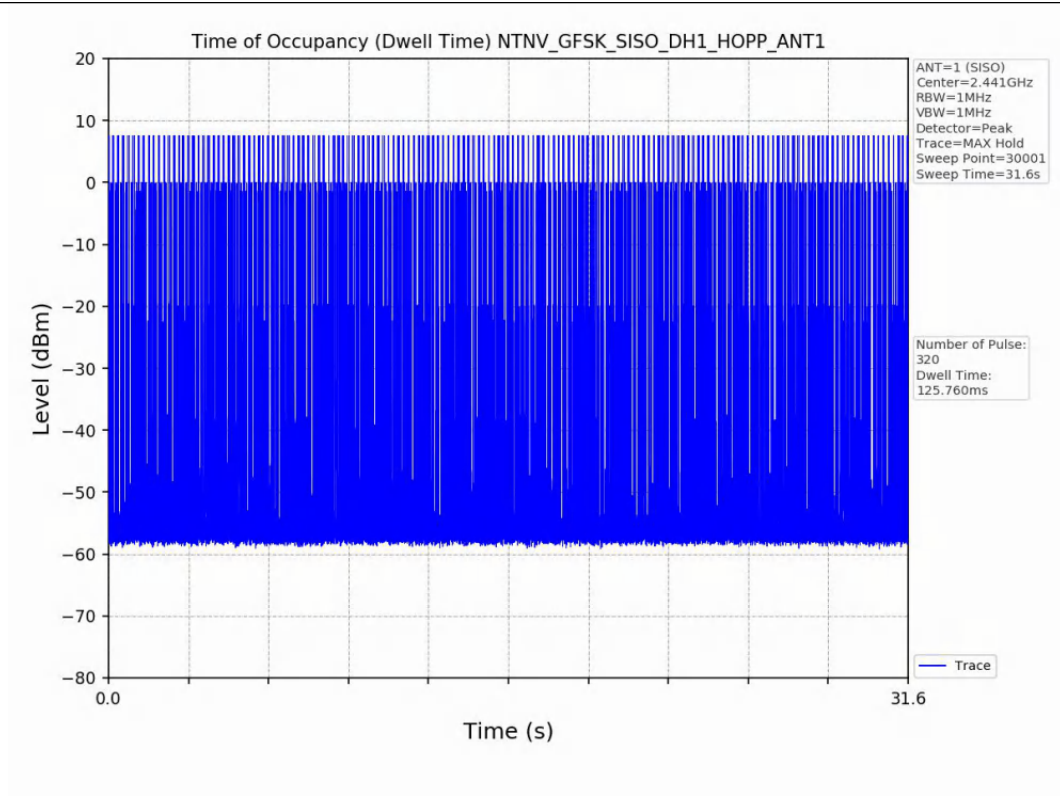
5. Time of Occupancy (Dwell Time)

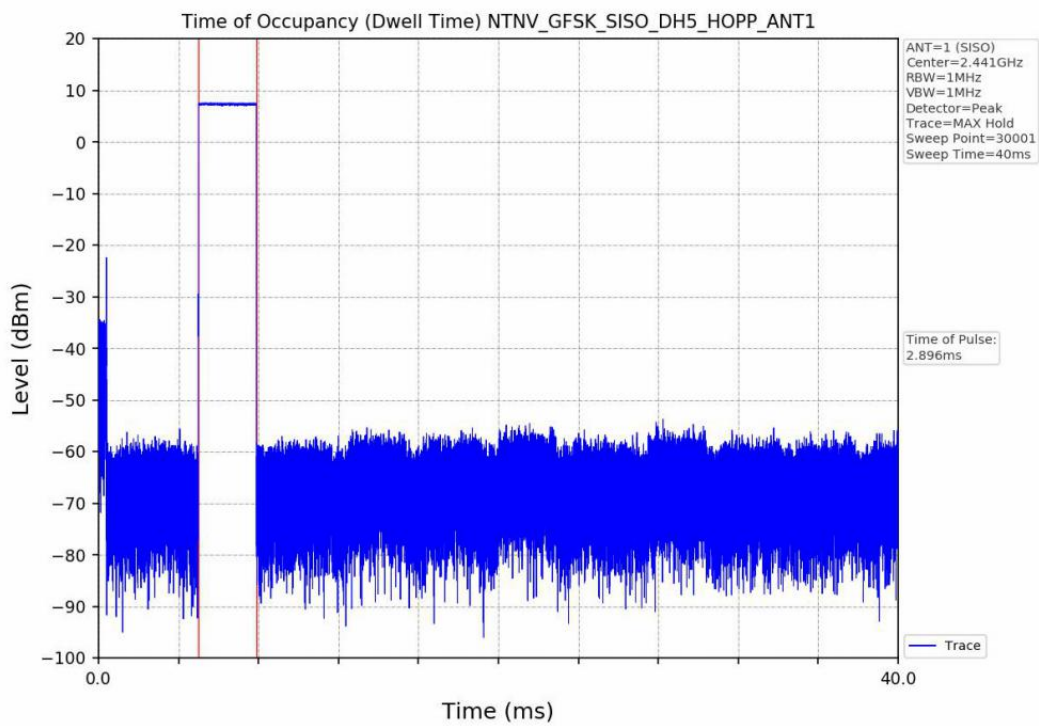
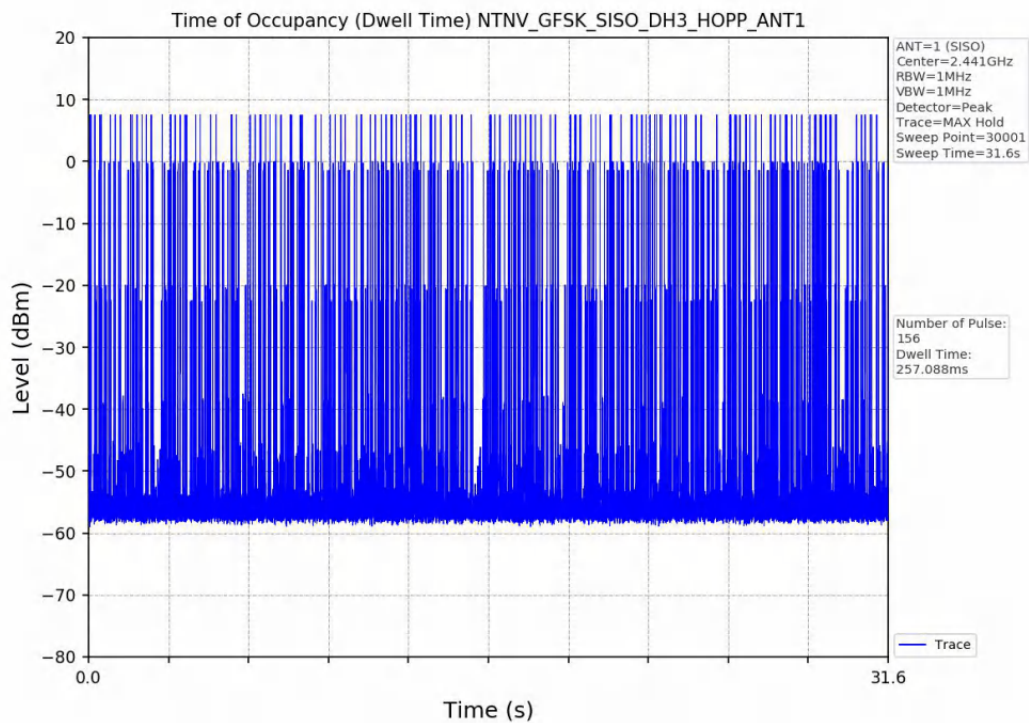
5.1 Test Result

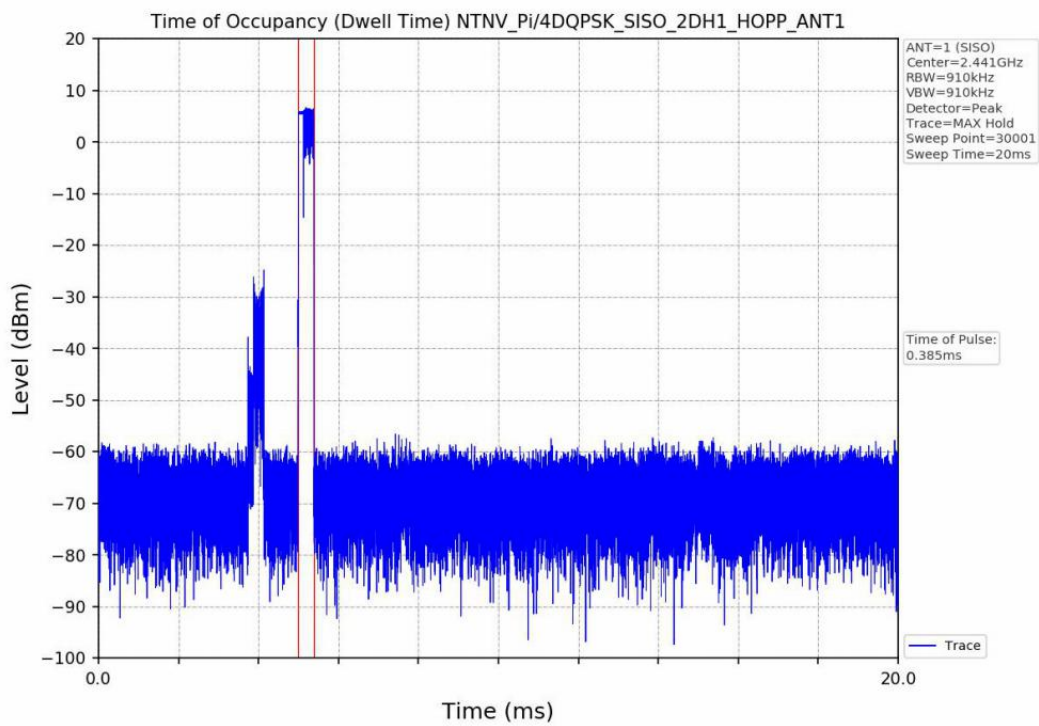
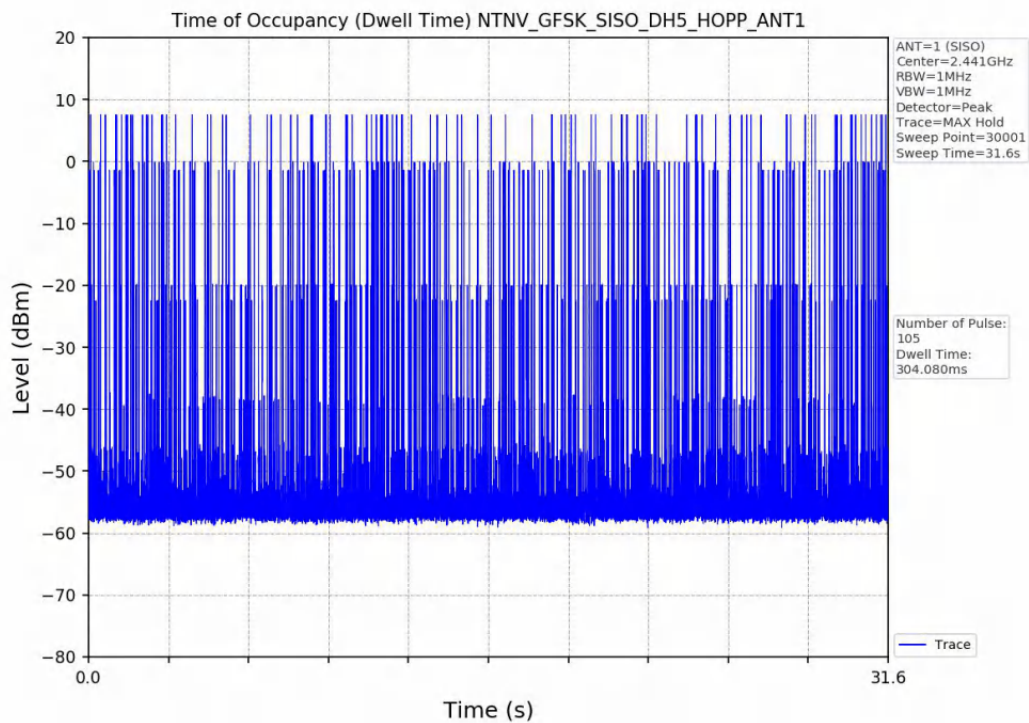
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.393	31.6	320	125.760	≤400	PASS
	DH3	SISO	1	1.648	31.6	156	257.088	≤400	PASS
	DH5	SISO	1	2.896	31.6	105	304.080	≤400	PASS
Pi/4DQPSK	2DH1	SISO	1	0.385	31.6	319	122.815	≤400	PASS
	2DH3	SISO	1	1.637	31.6	157	257.009	≤400	PASS
	2DH5	SISO	1	2.885	31.6	95	274.075	≤400	PASS
8DPSK	3DH1	SISO	1	0.384	31.6	321	123.264	≤400	PASS
	3DH3	SISO	1	1.633	31.6	171	279.243	≤400	PASS
	3DH5	SISO	1	2.885	31.6	104	300.040	≤400	PASS

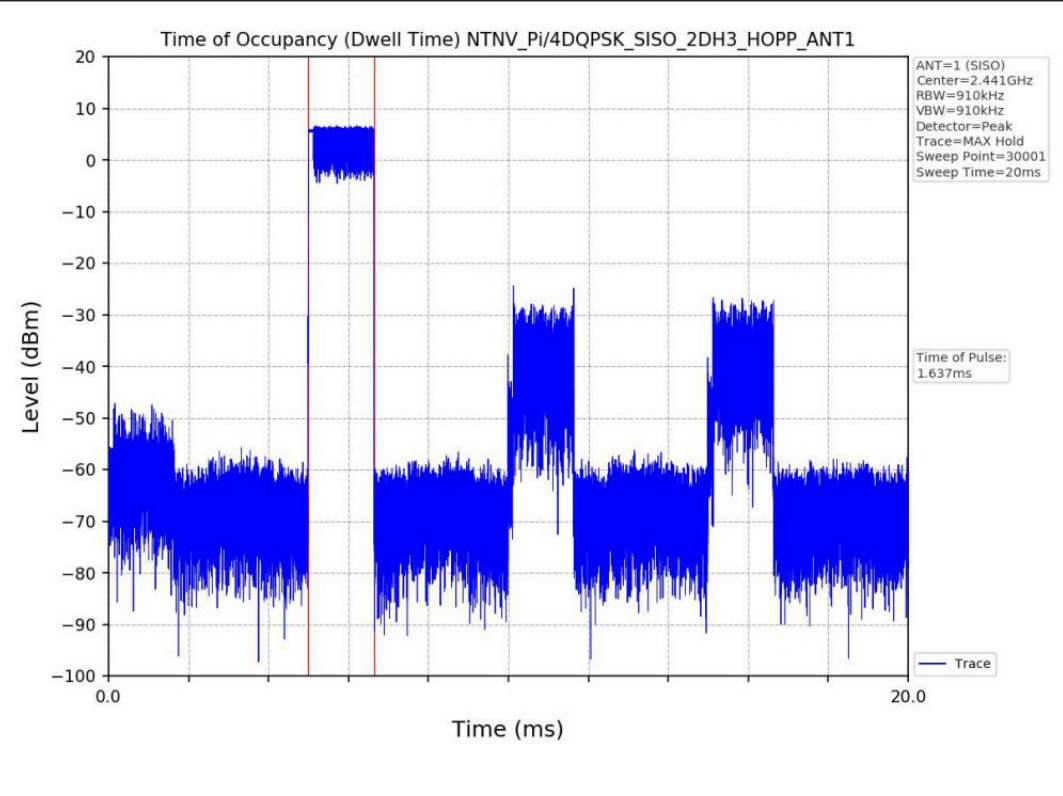
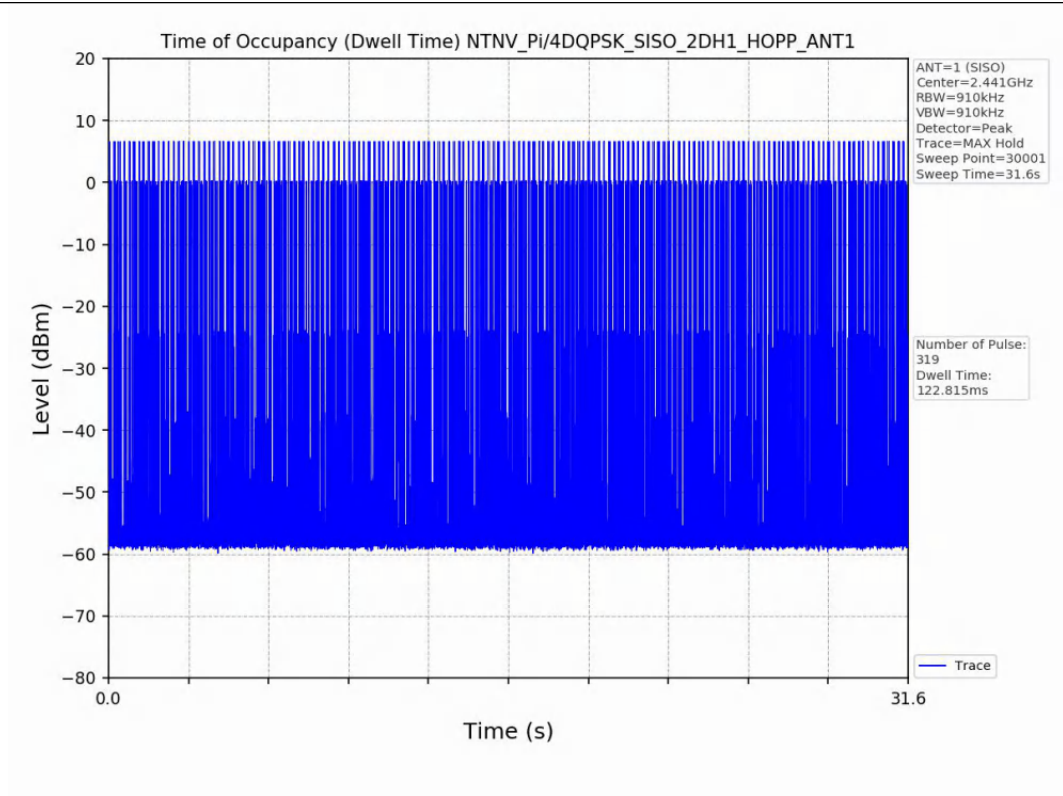
5.2 Test Graph

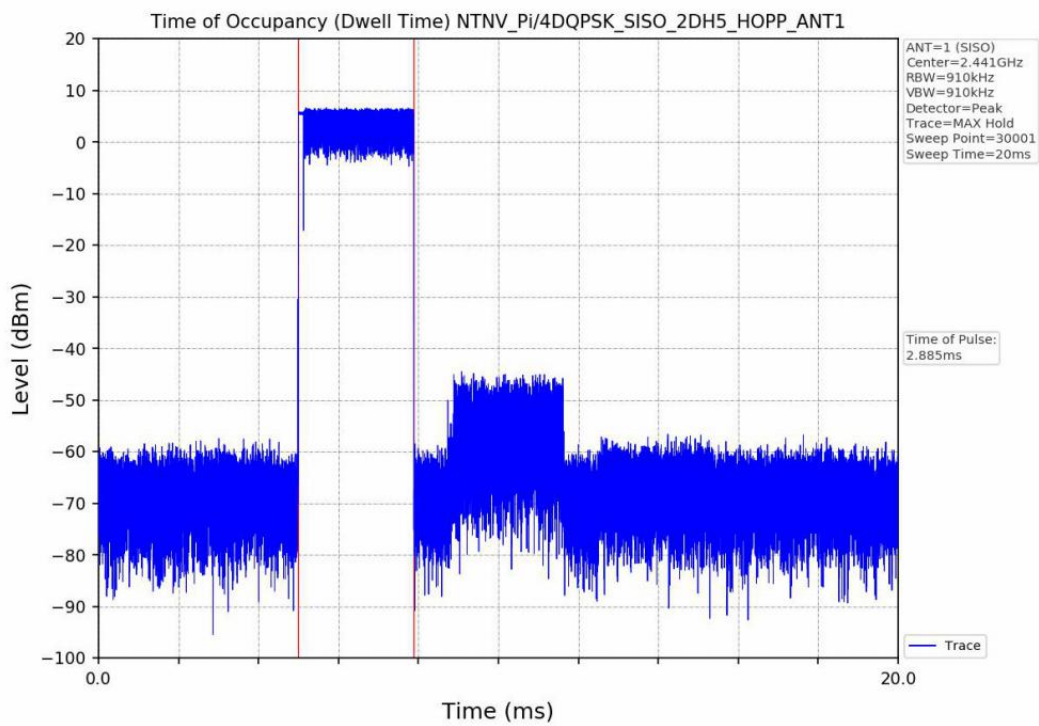
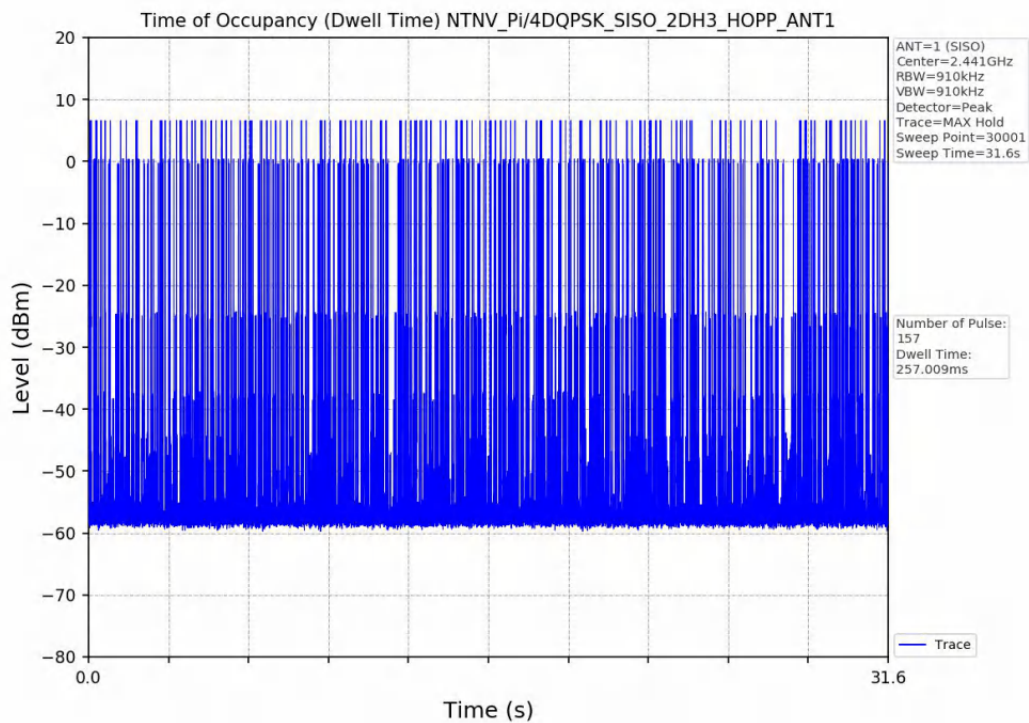


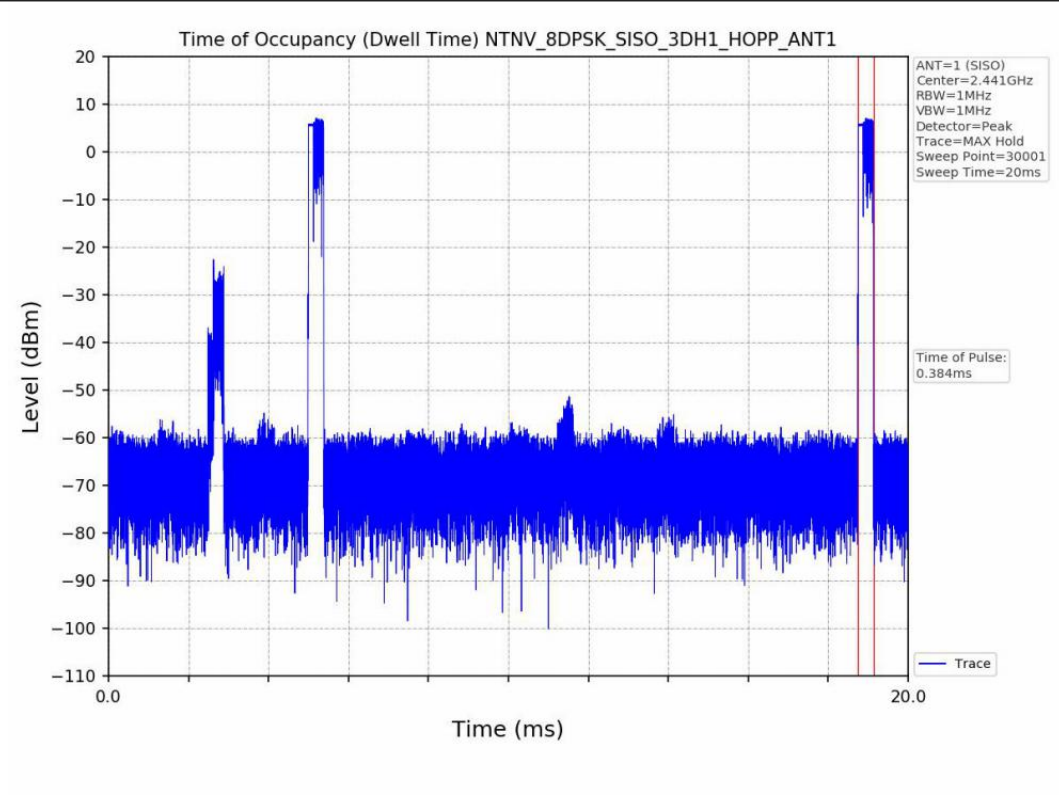
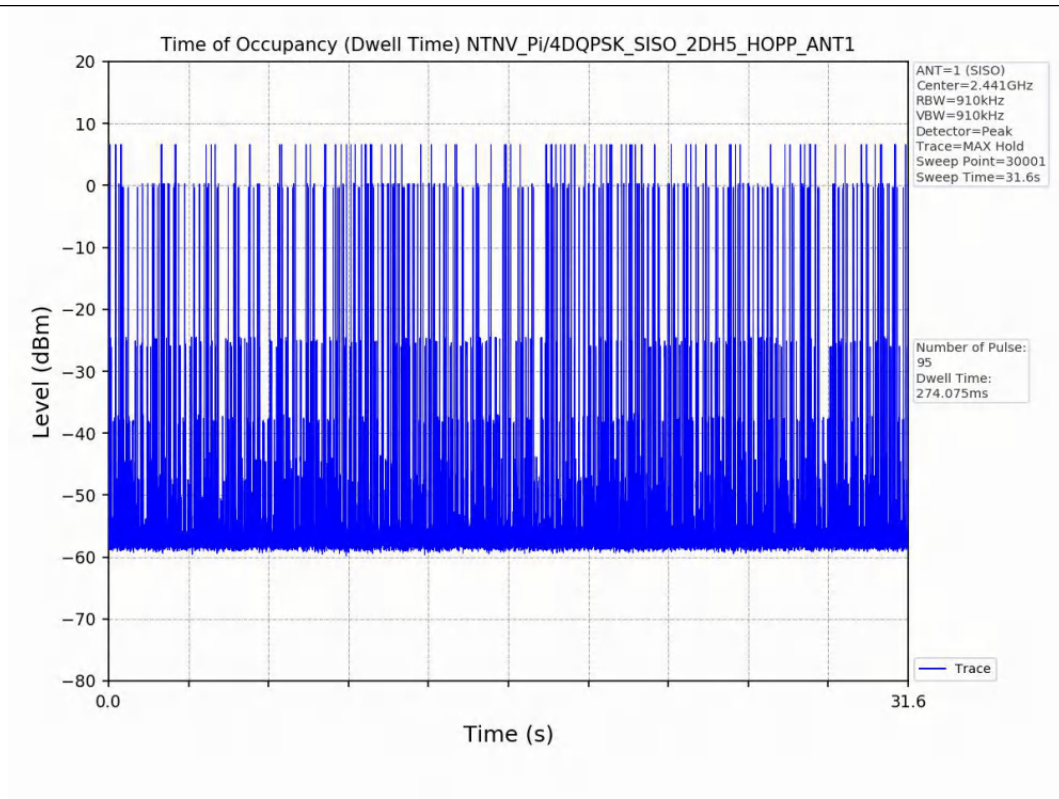


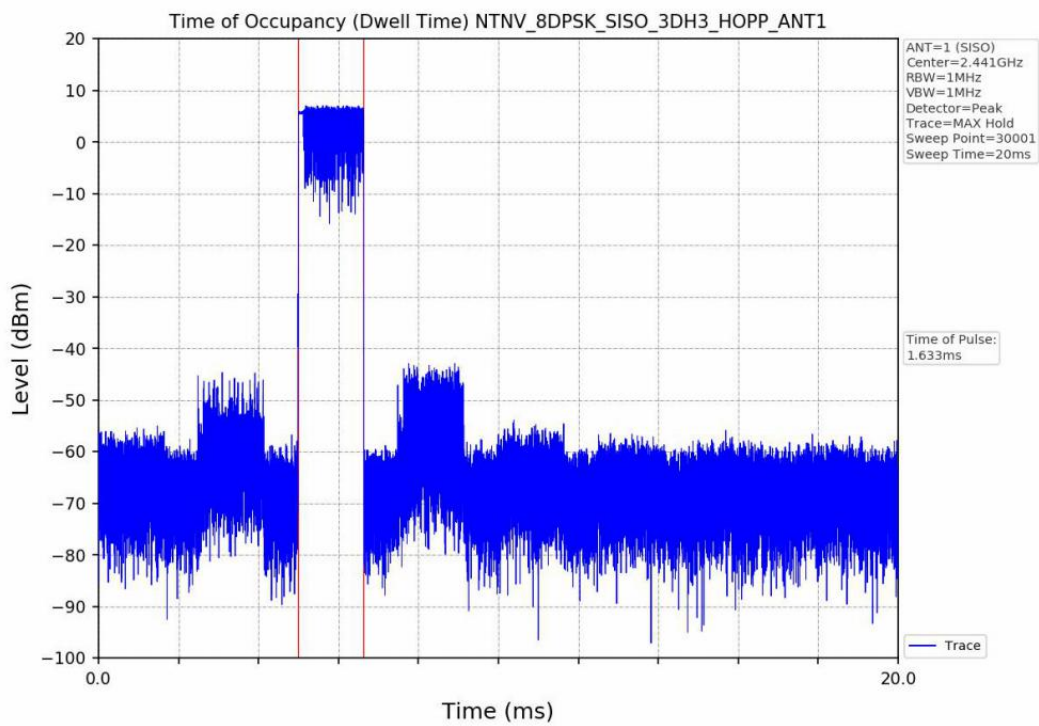
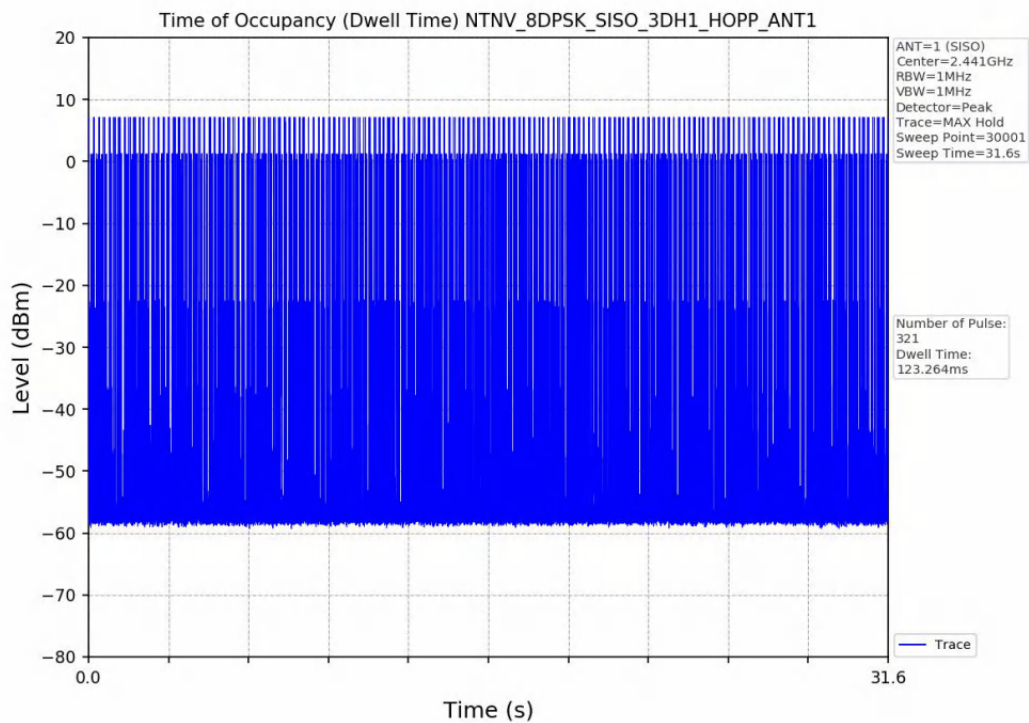


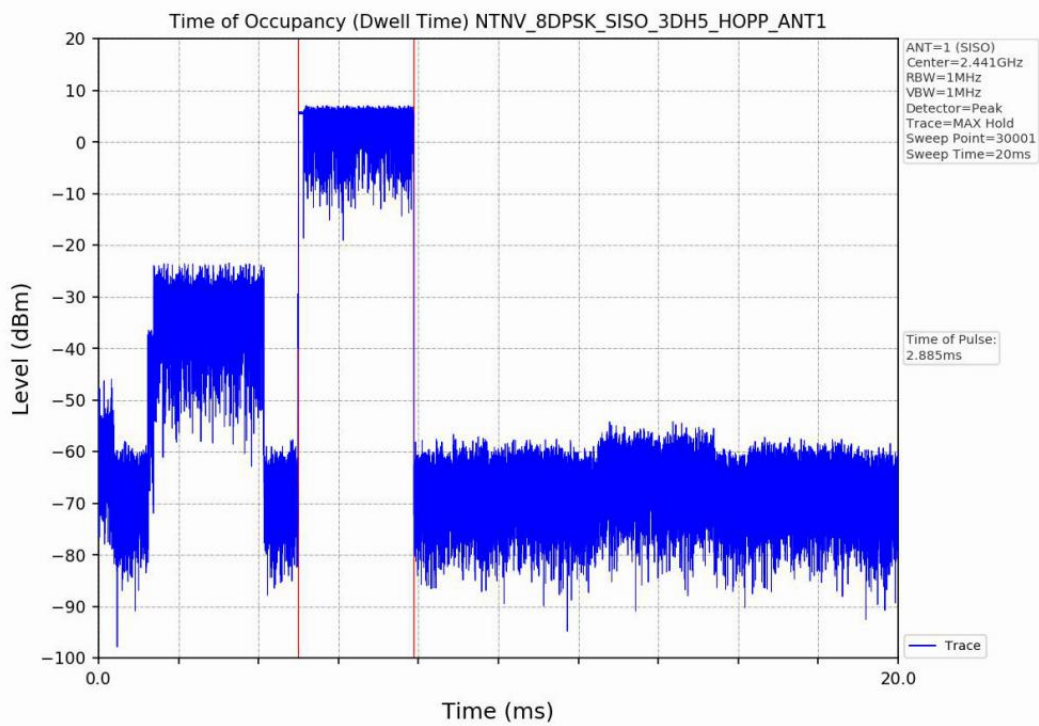
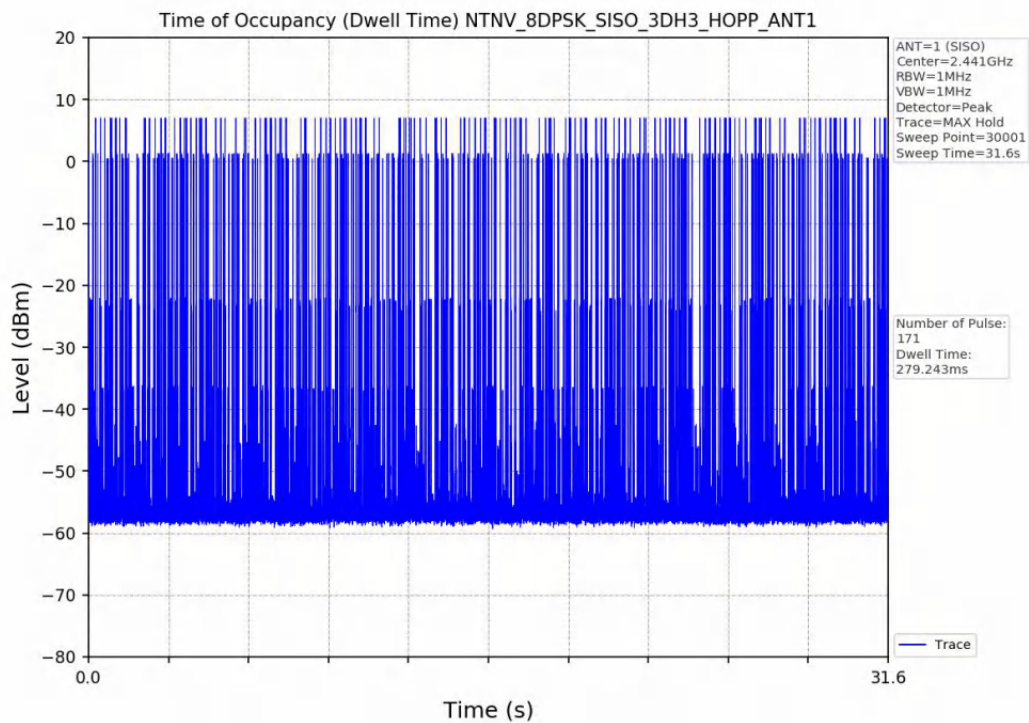


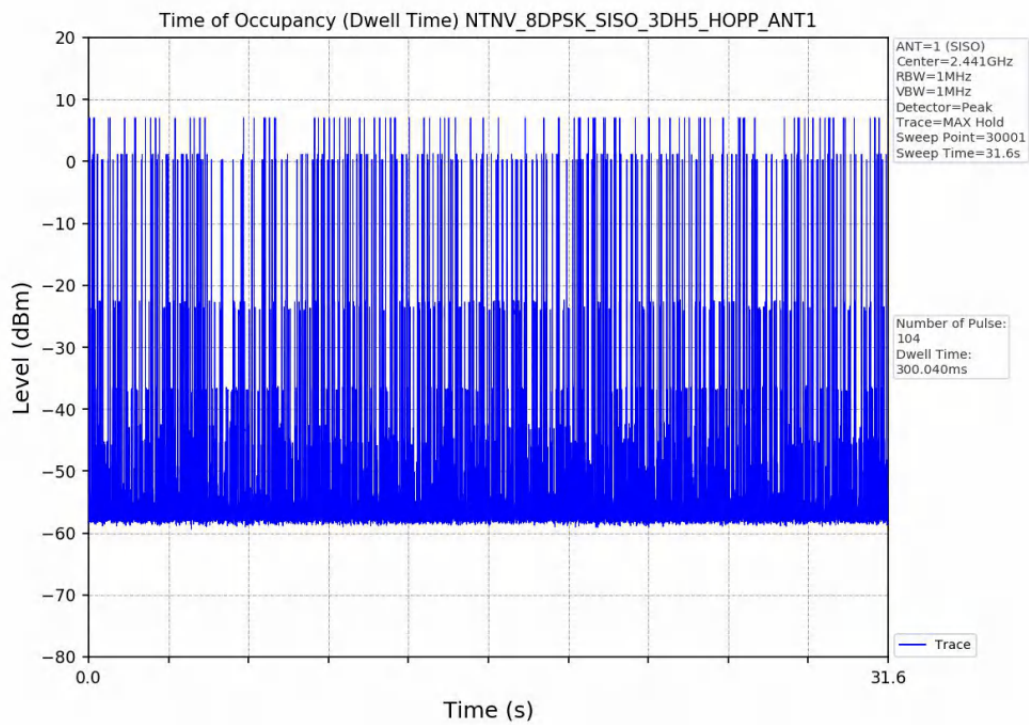










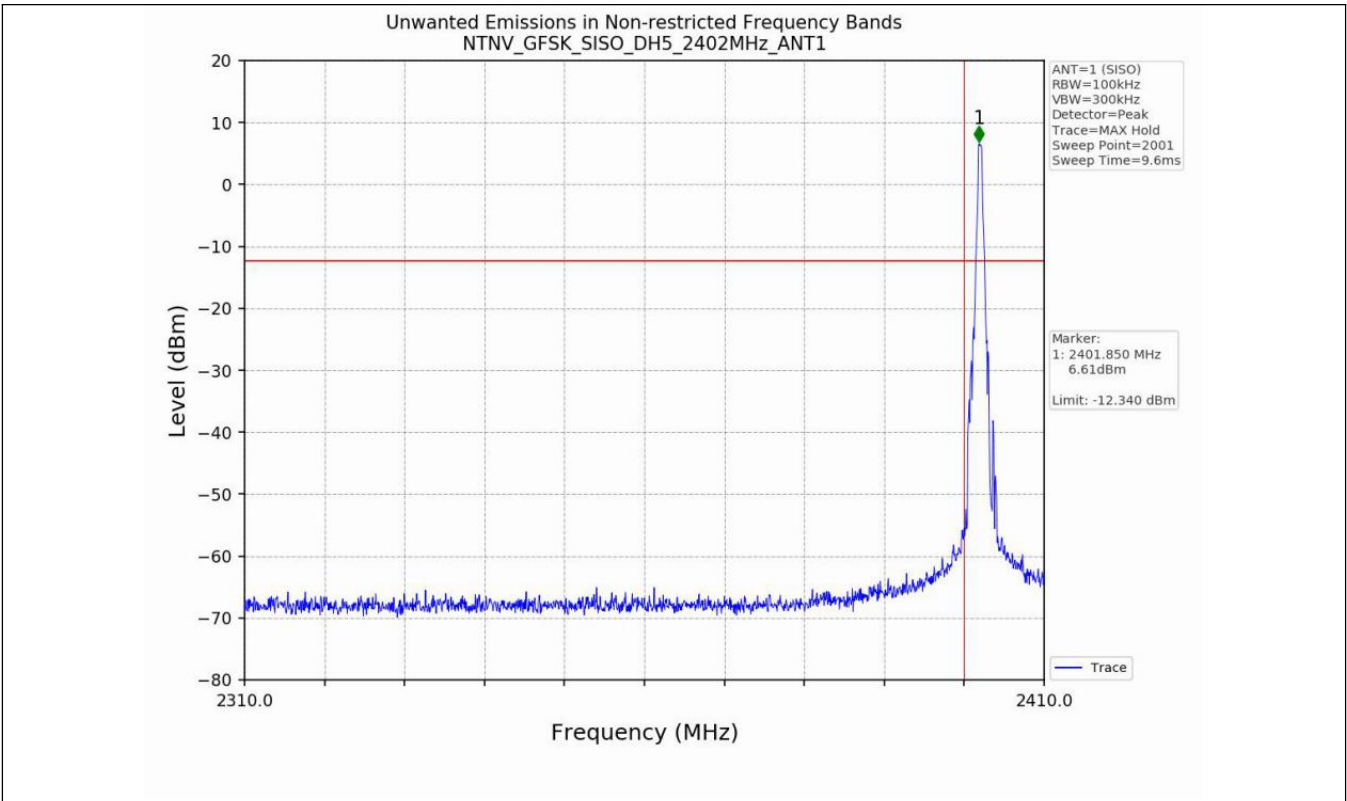
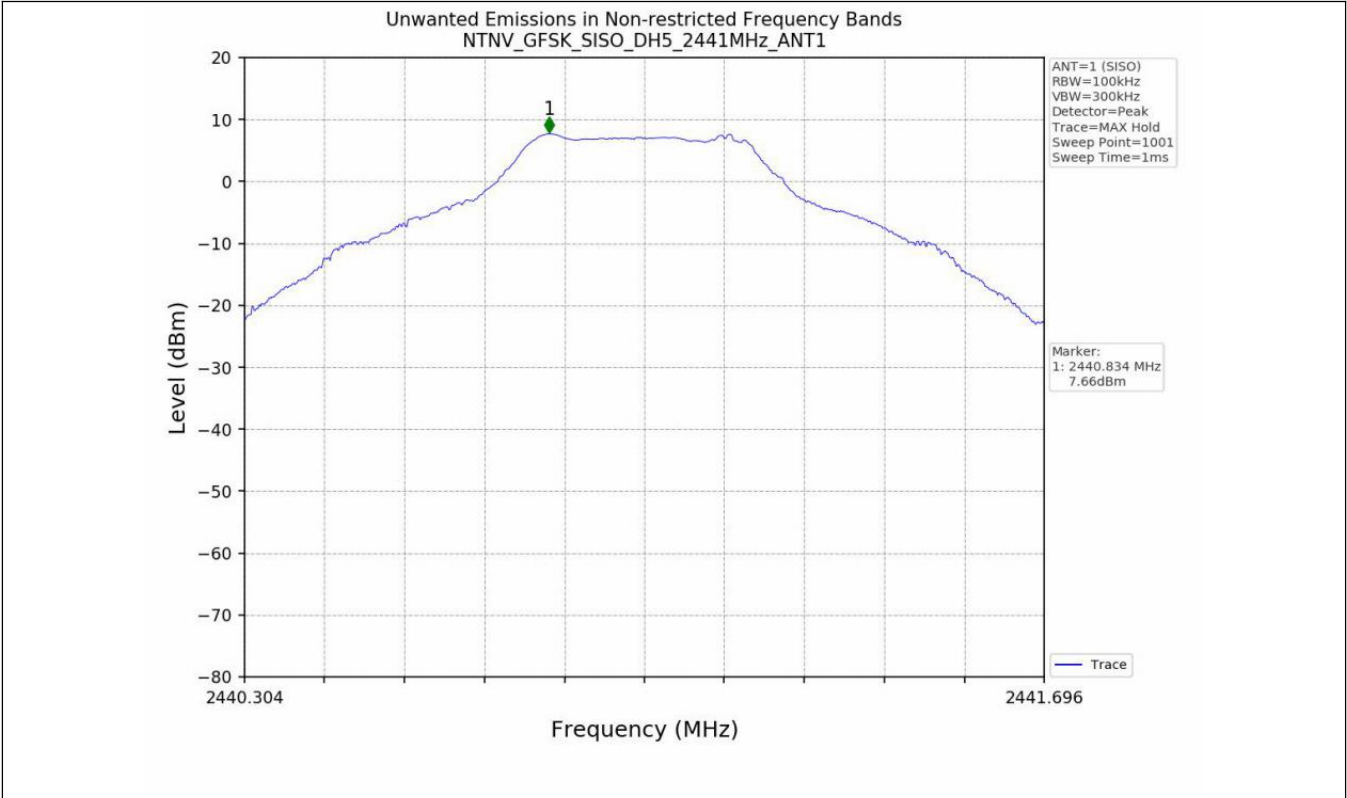


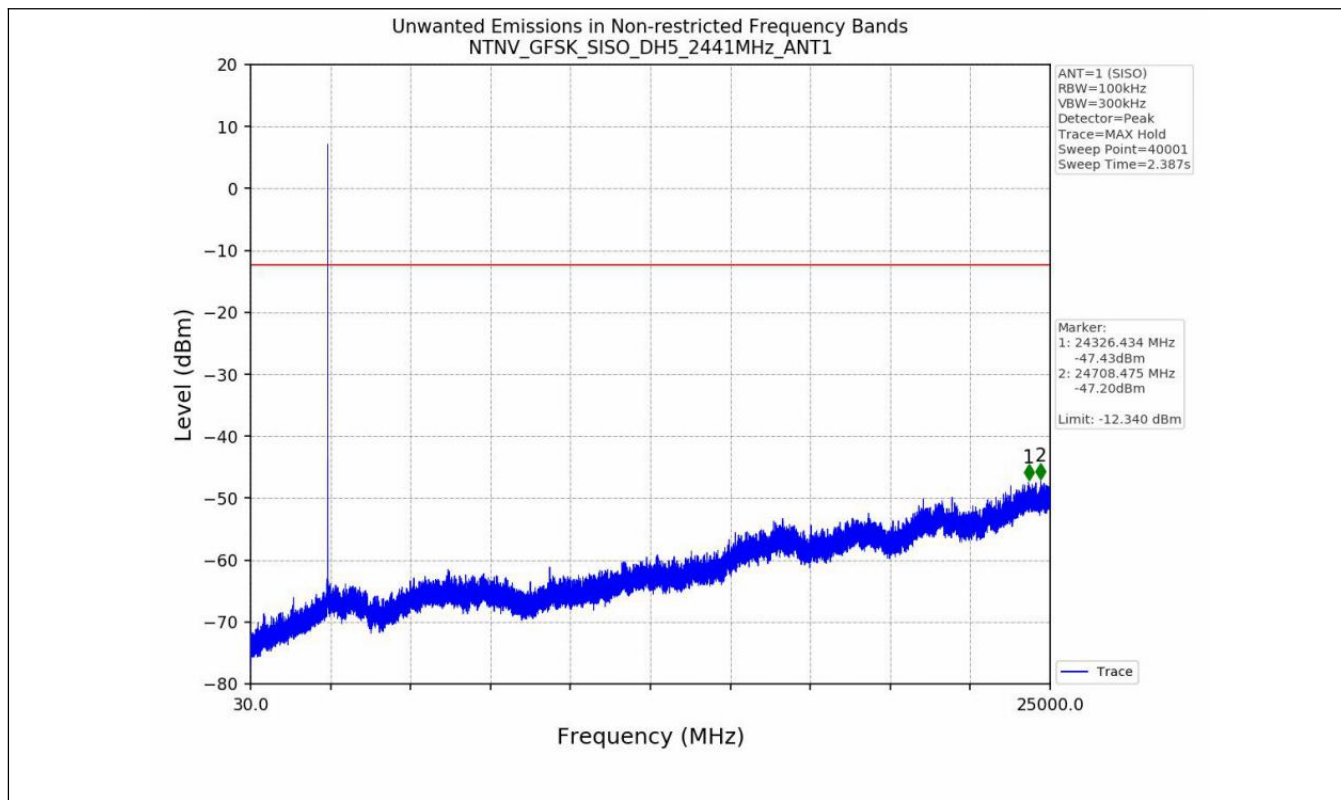
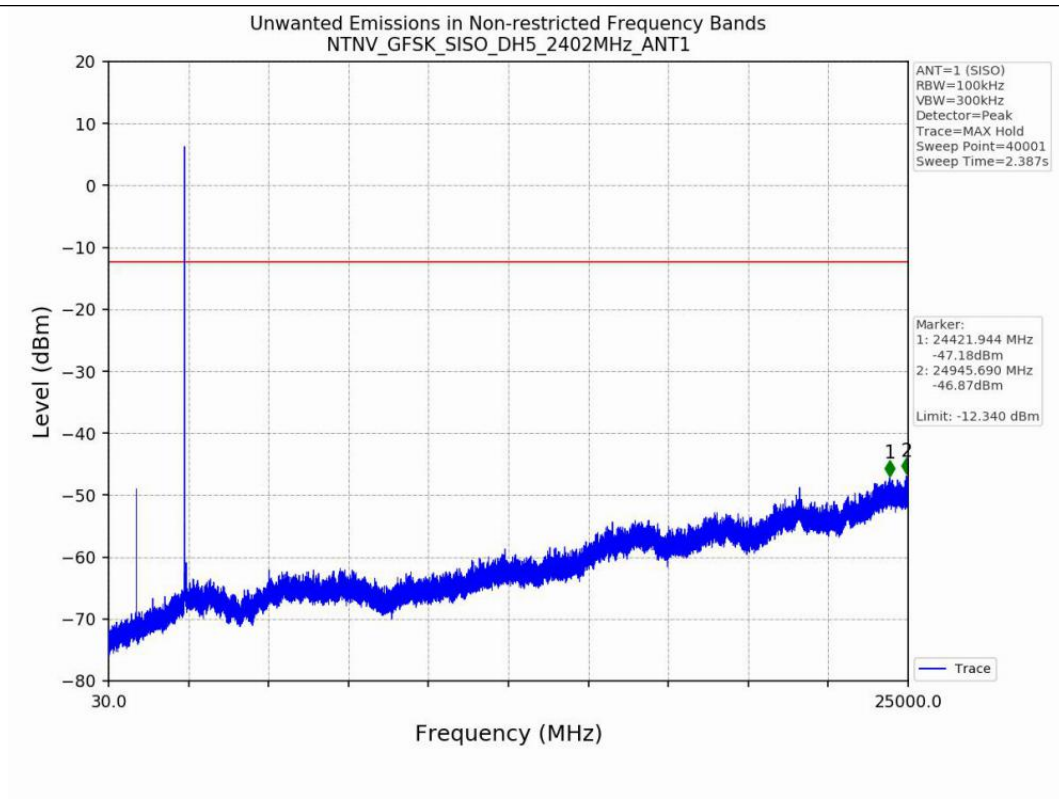
6. Unwanted Emissions in Non-restricted Frequency Bands

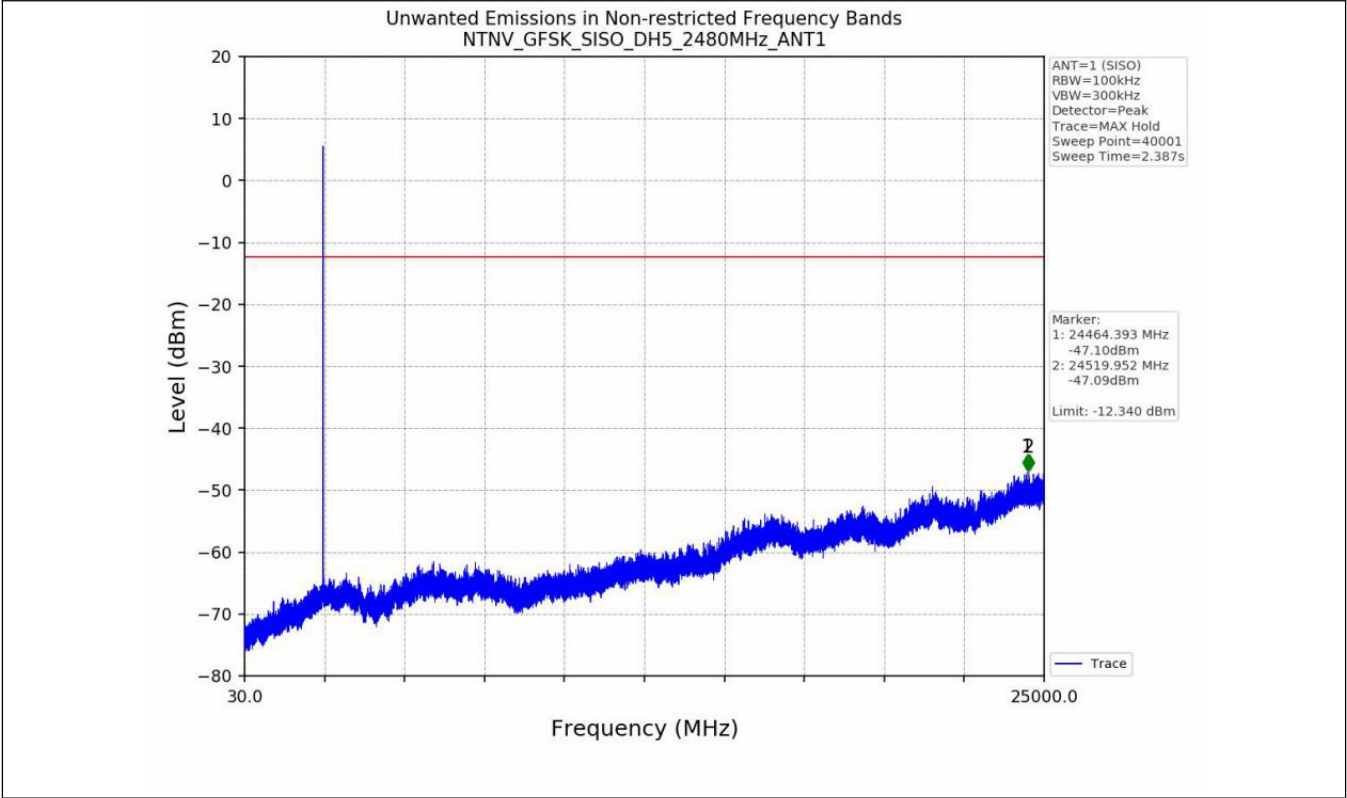
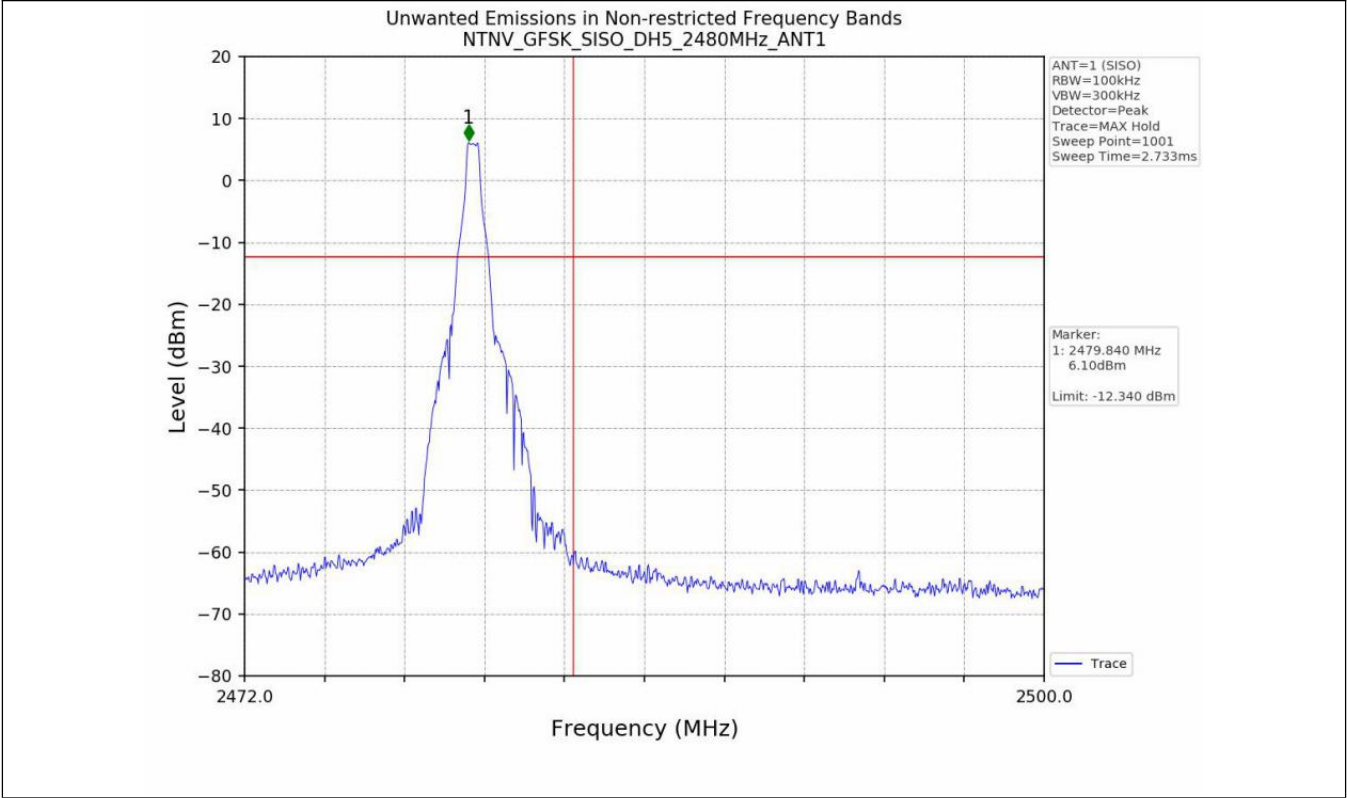
6.1 Test Result

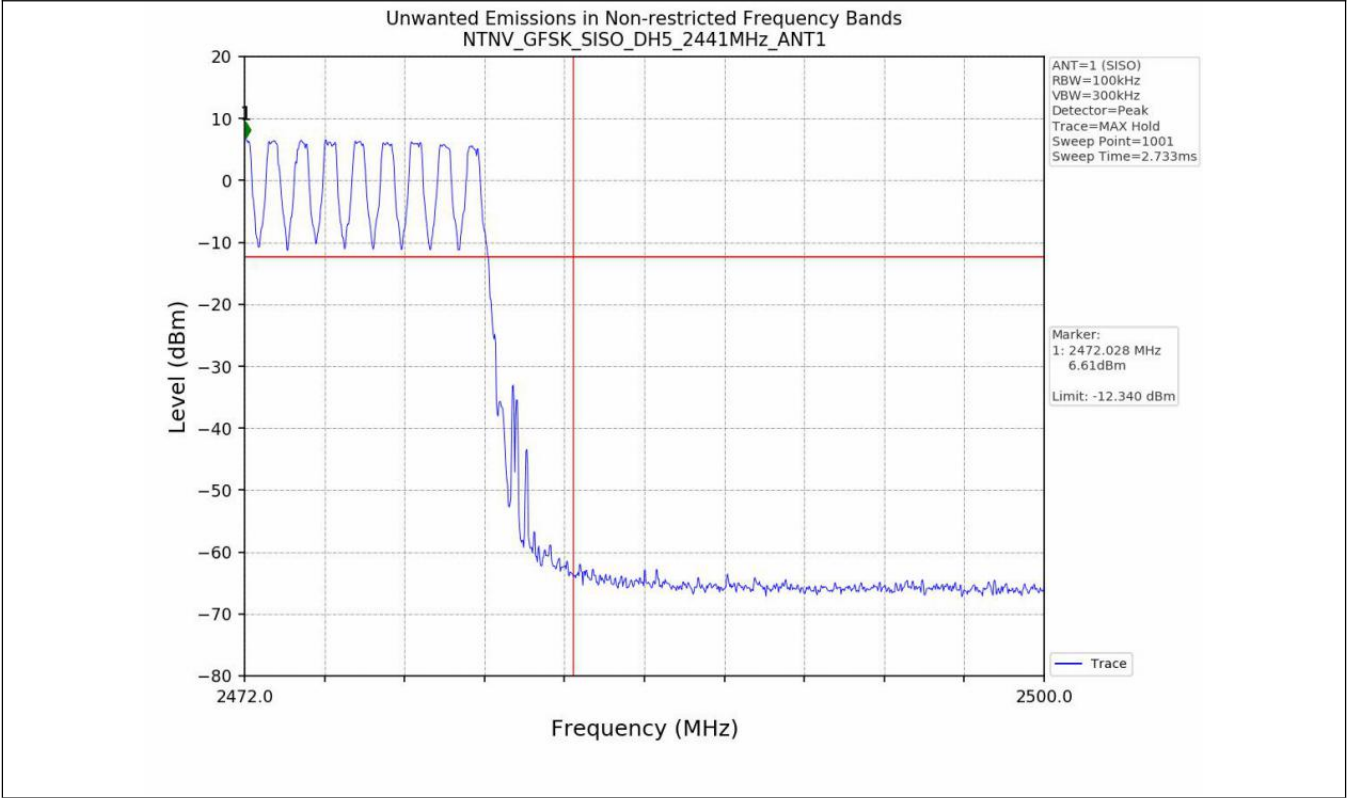
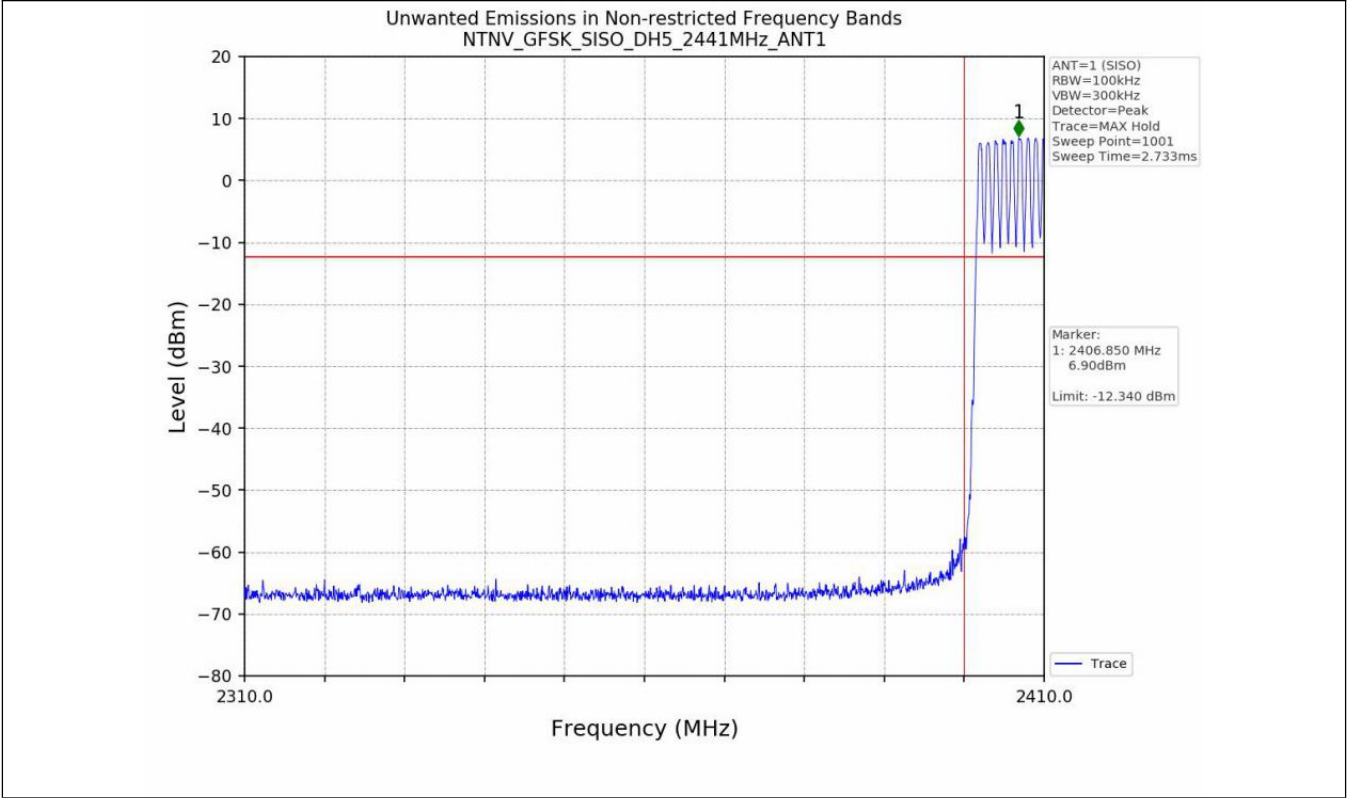
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-12.34	PASS
	2441	SISO	1	Refer to test graph	-12.34	PASS
	2480	SISO	1	Refer to test graph	-12.34	PASS
	Hopping	SISO	1	Refer to test graph	-12.34	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-14.08	PASS
	2441	SISO	1	Refer to test graph	-14.08	PASS
	2480	SISO	1	Refer to test graph	-14.08	PASS
	Hopping	SISO	1	Refer to test graph	-14.08	PASS
8DPSK	2402	SISO	1	Refer to test graph	-14.09	PASS
	2441	SISO	1	Refer to test graph	-14.09	PASS
	2480	SISO	1	Refer to test graph	-14.09	PASS
	Hopping	SISO	1	Refer to test graph	-14.09	PASS

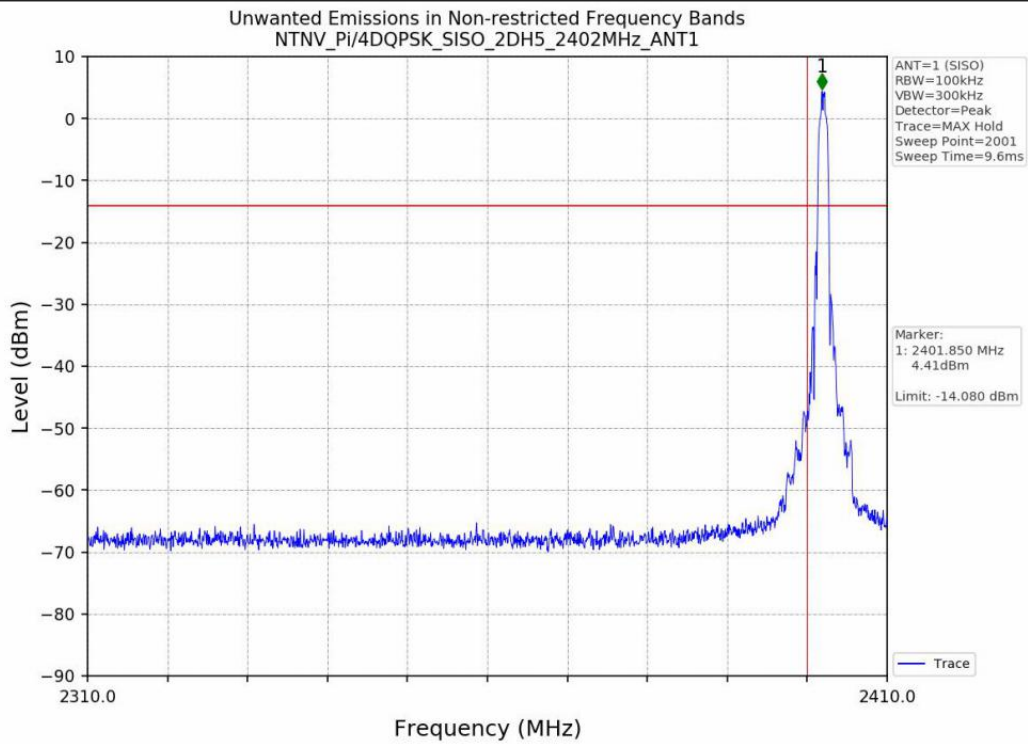
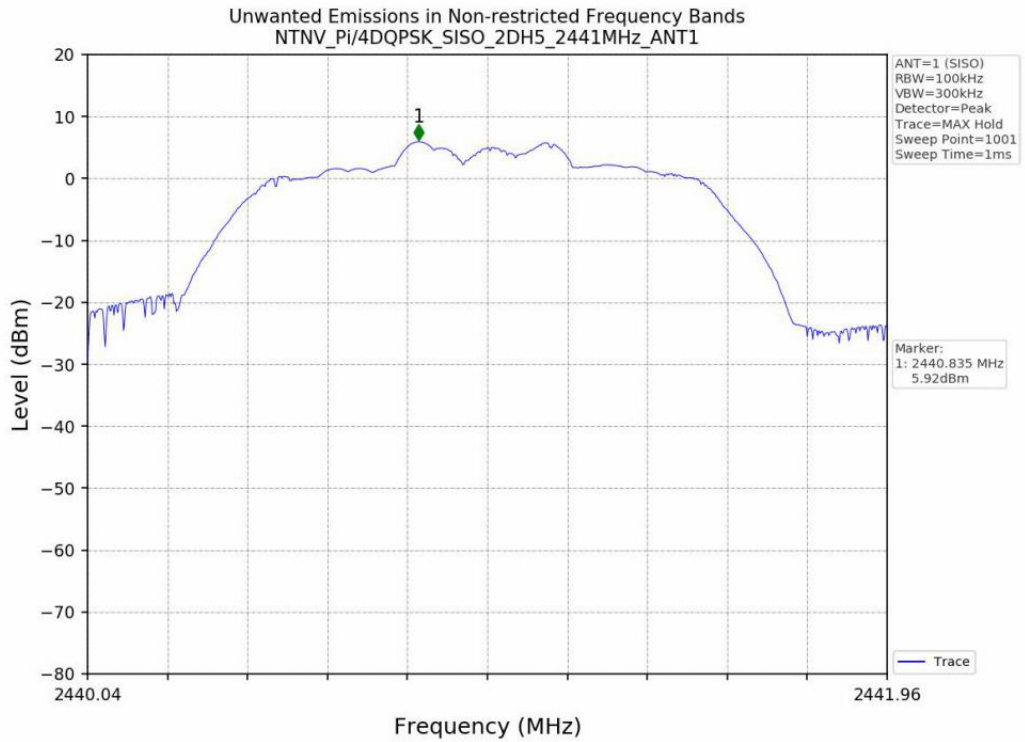
6.2 Test Graph

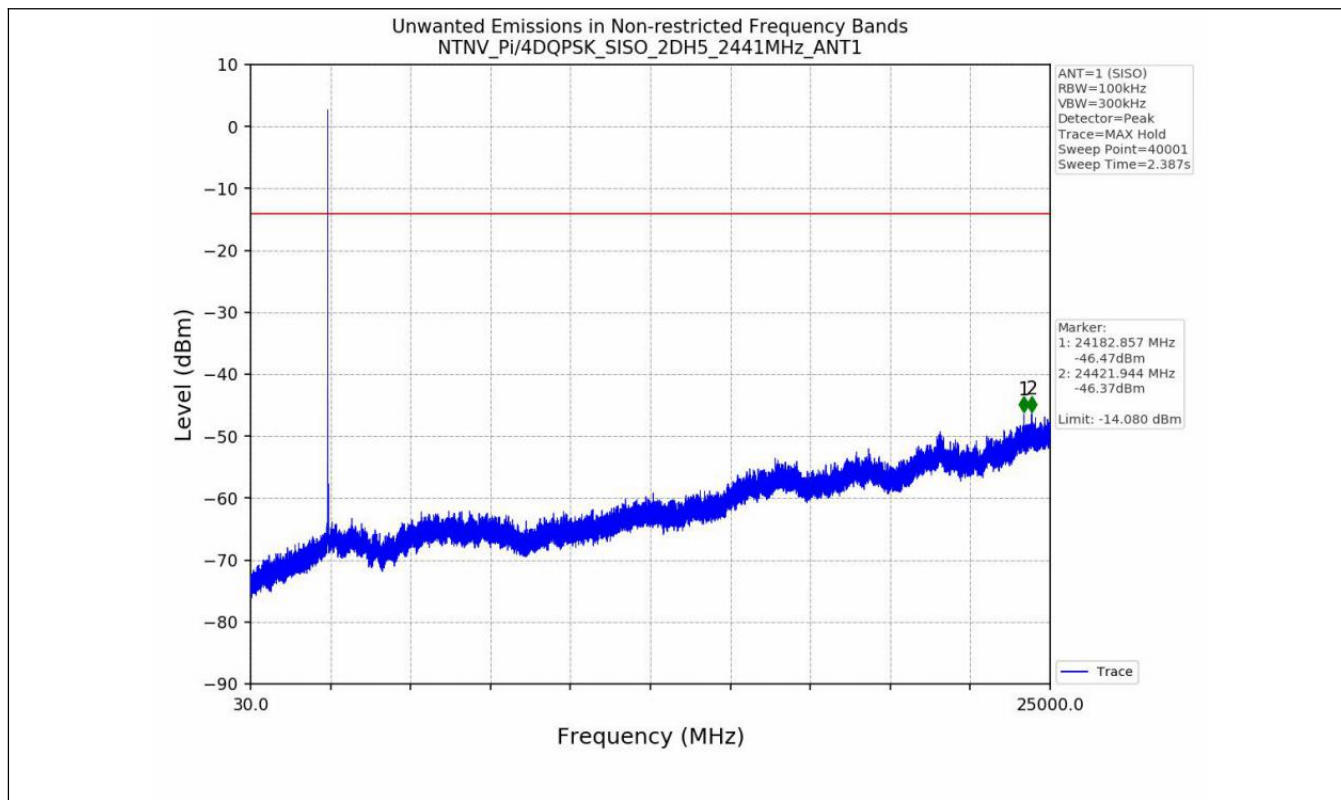
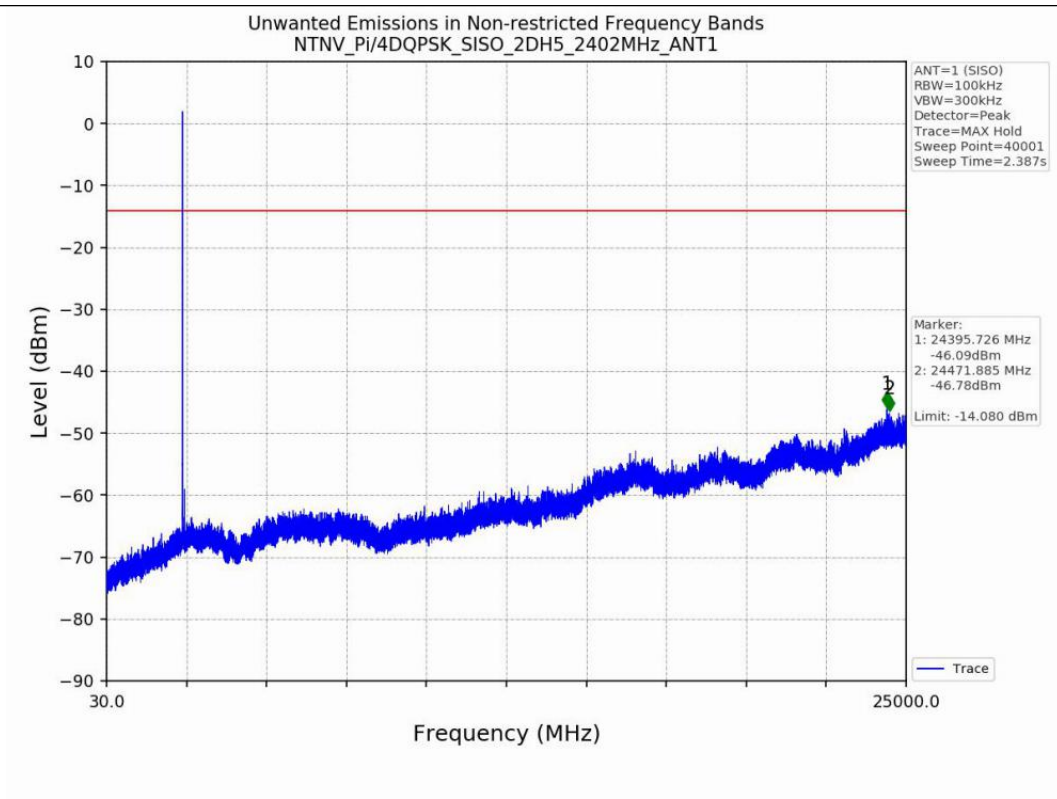


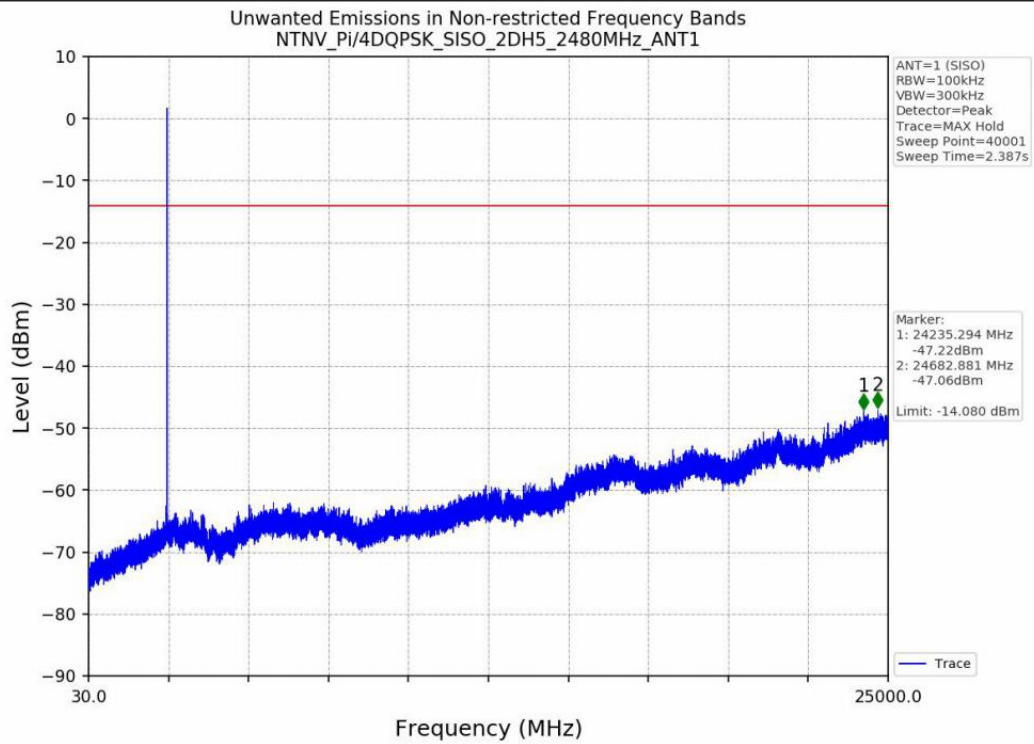
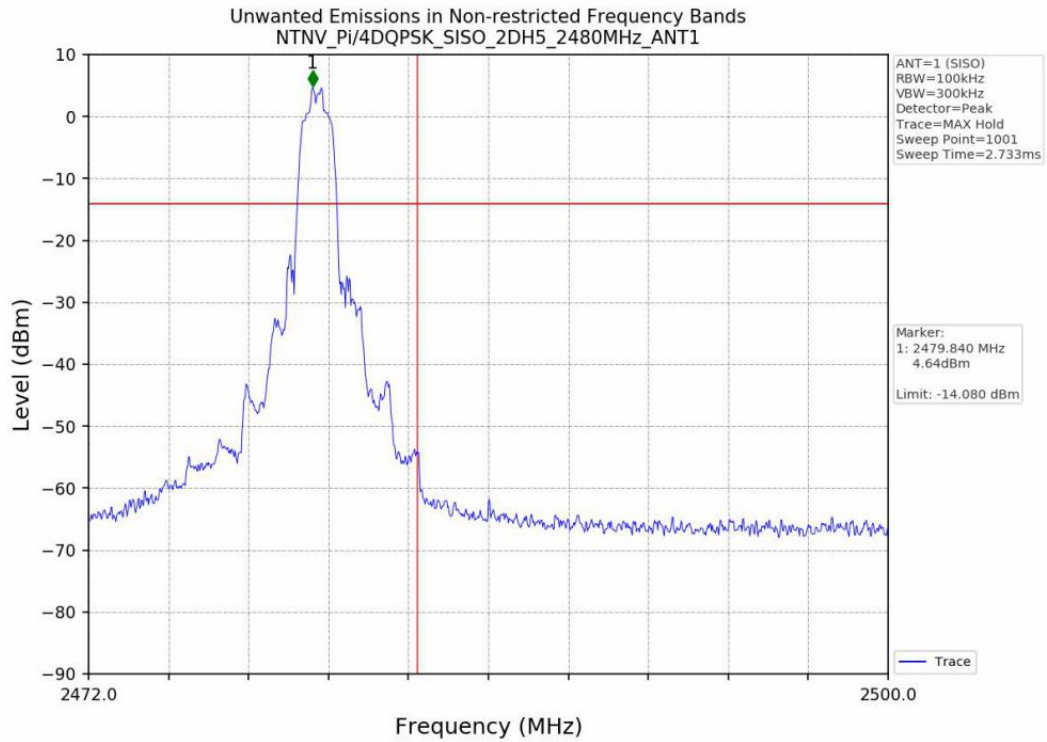


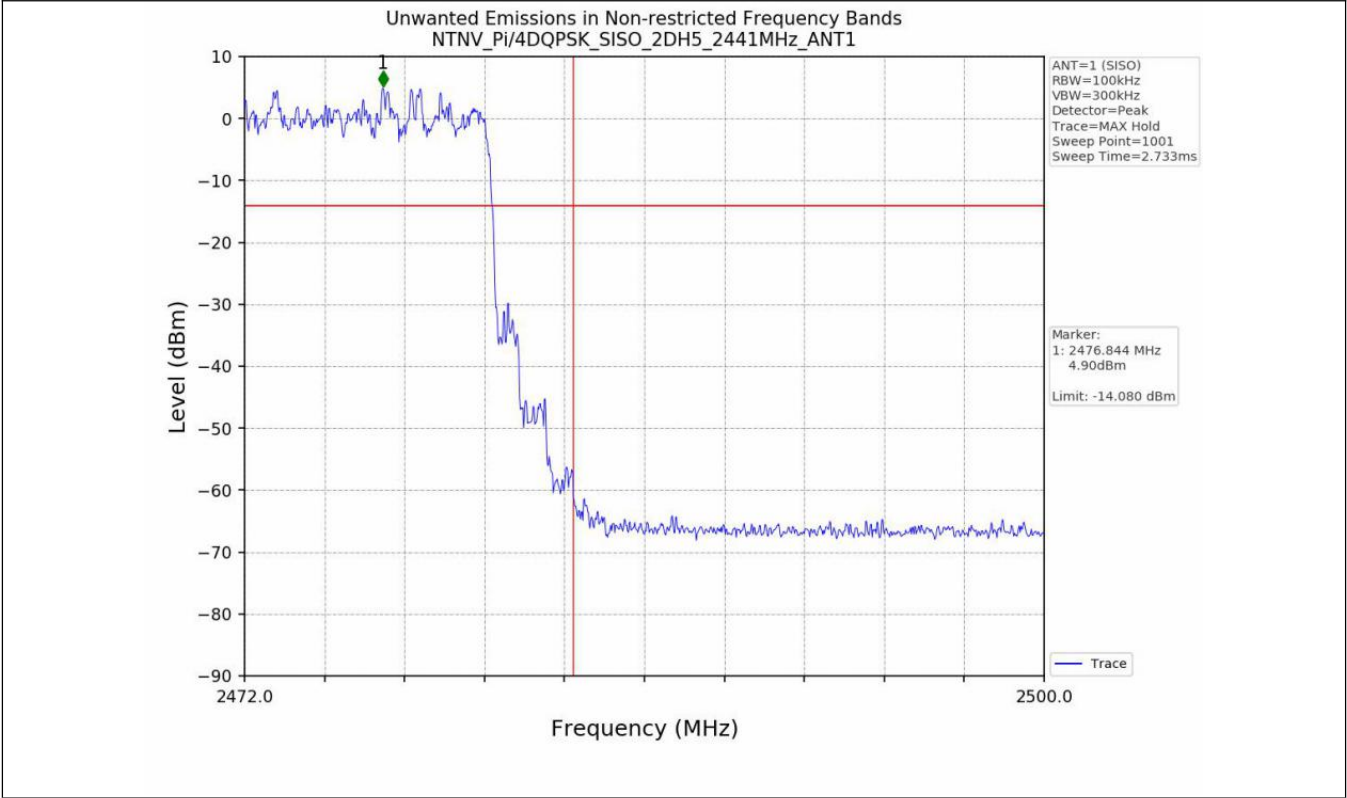
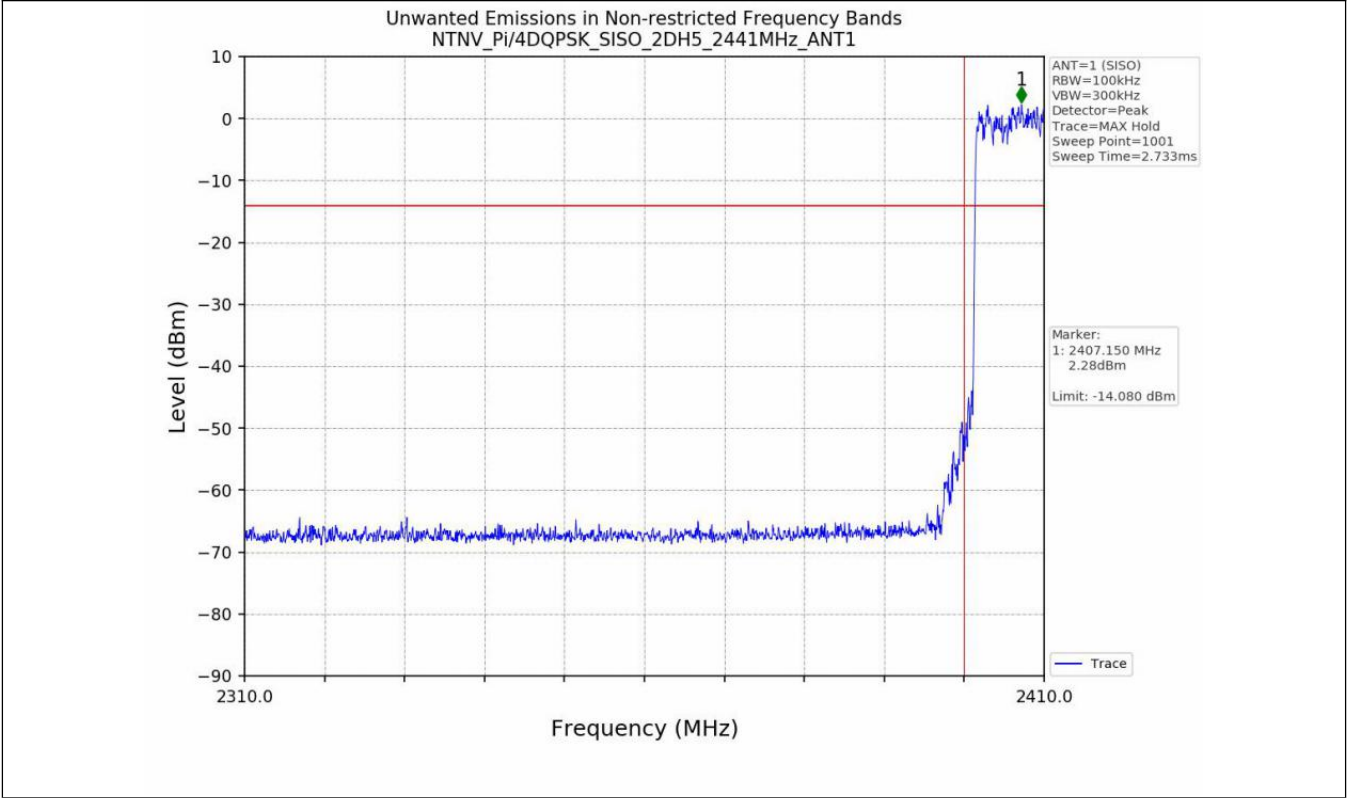


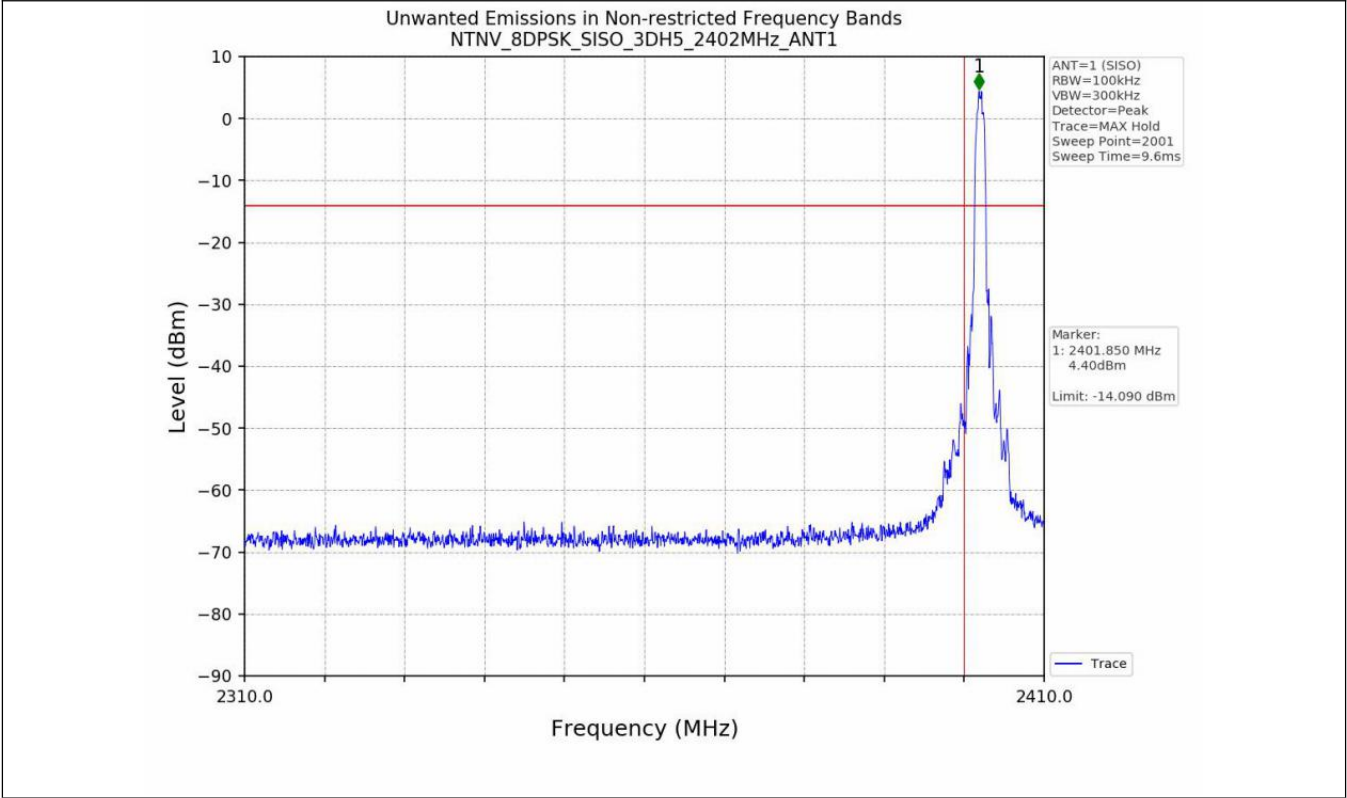
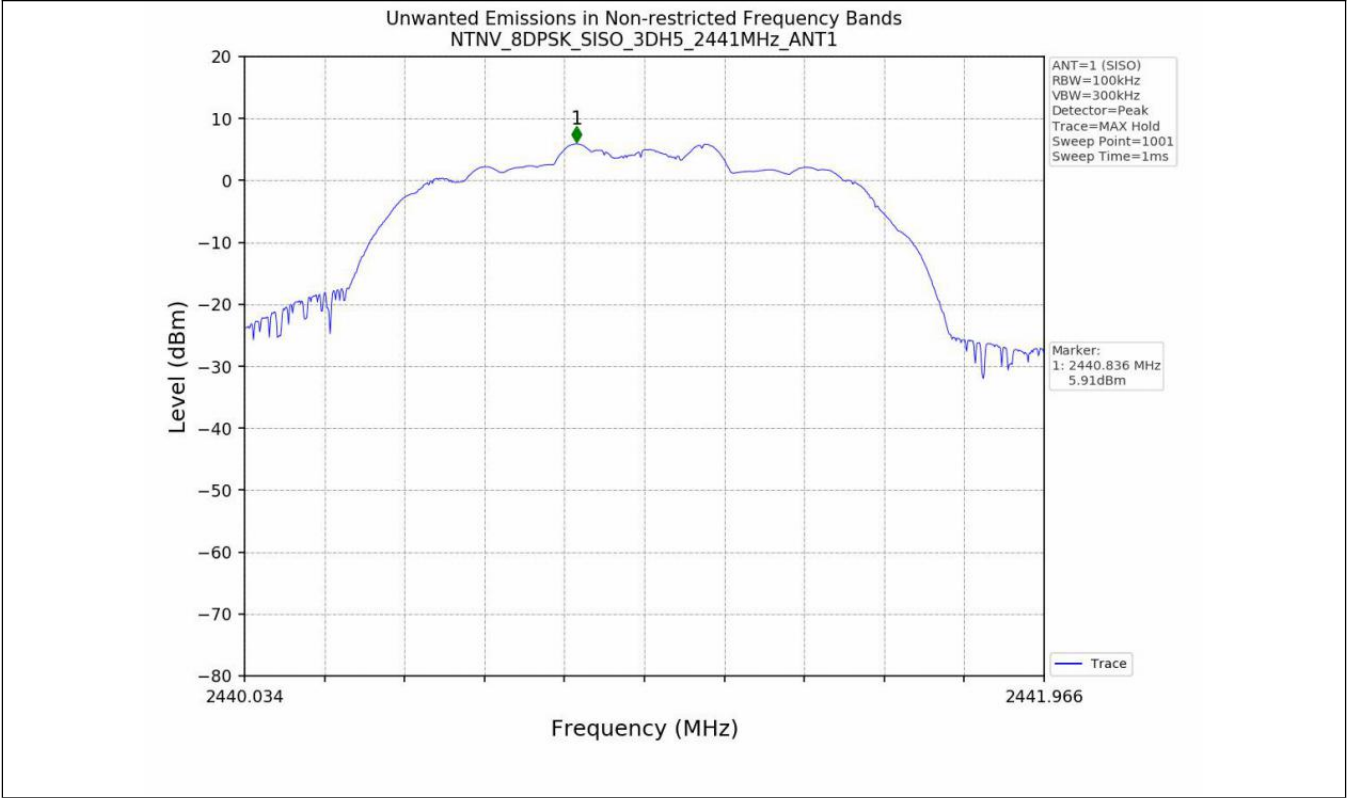




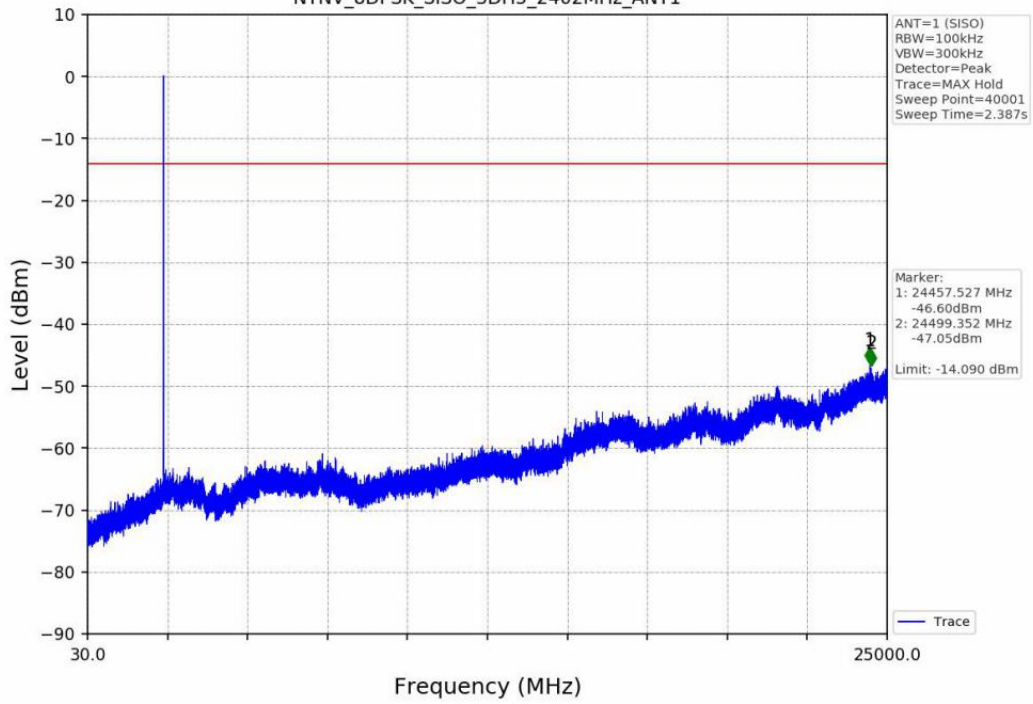




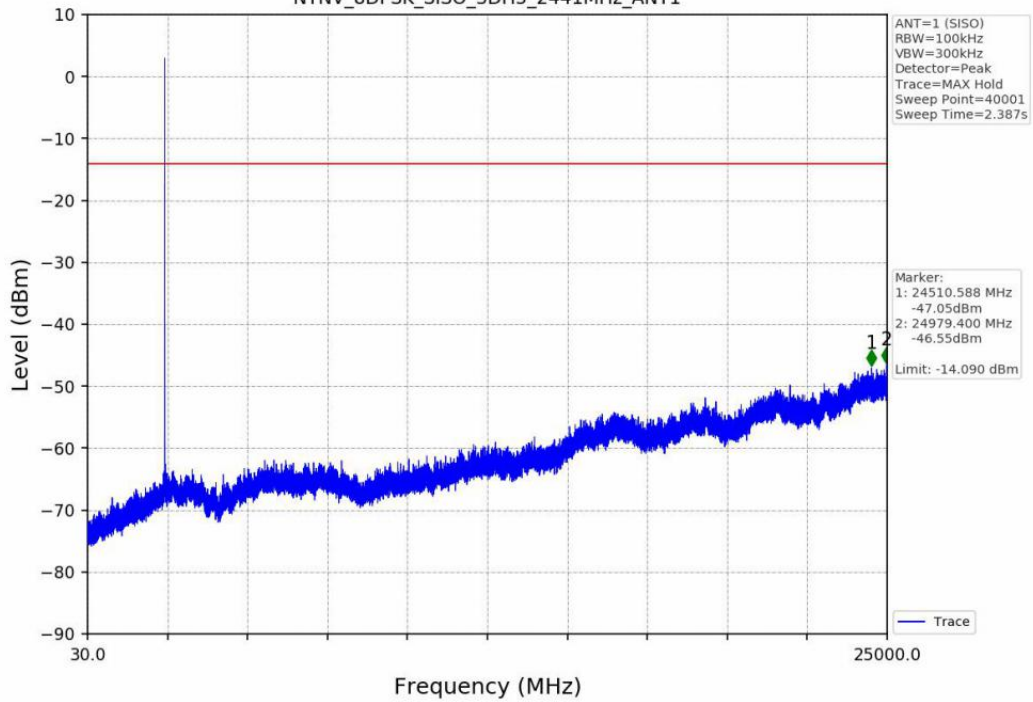


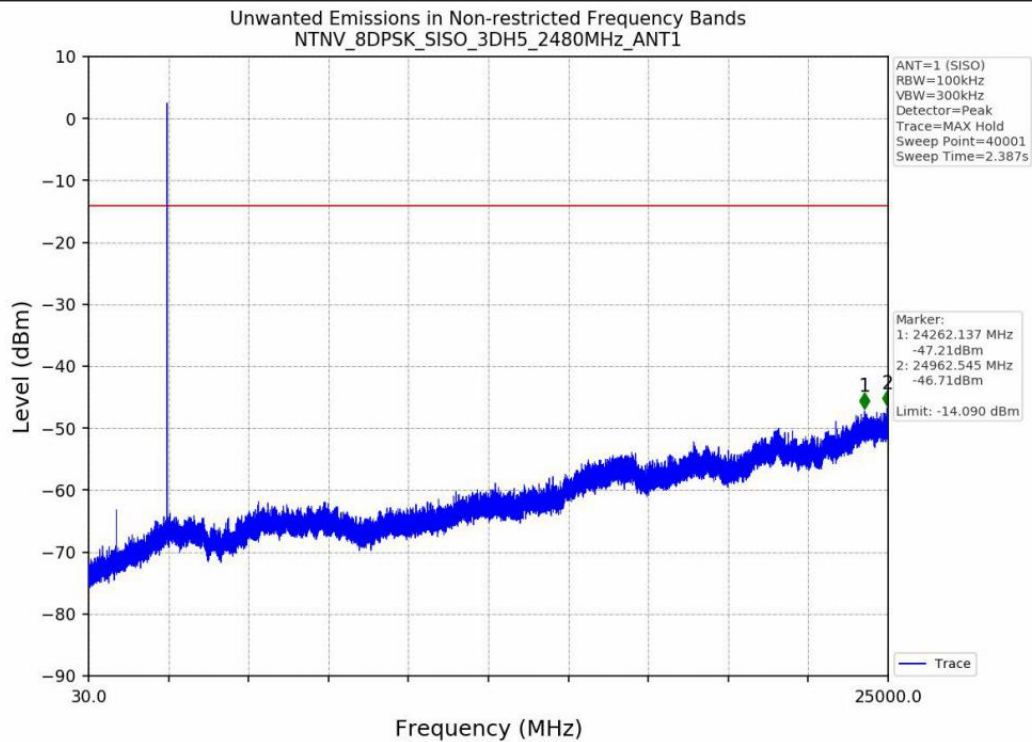
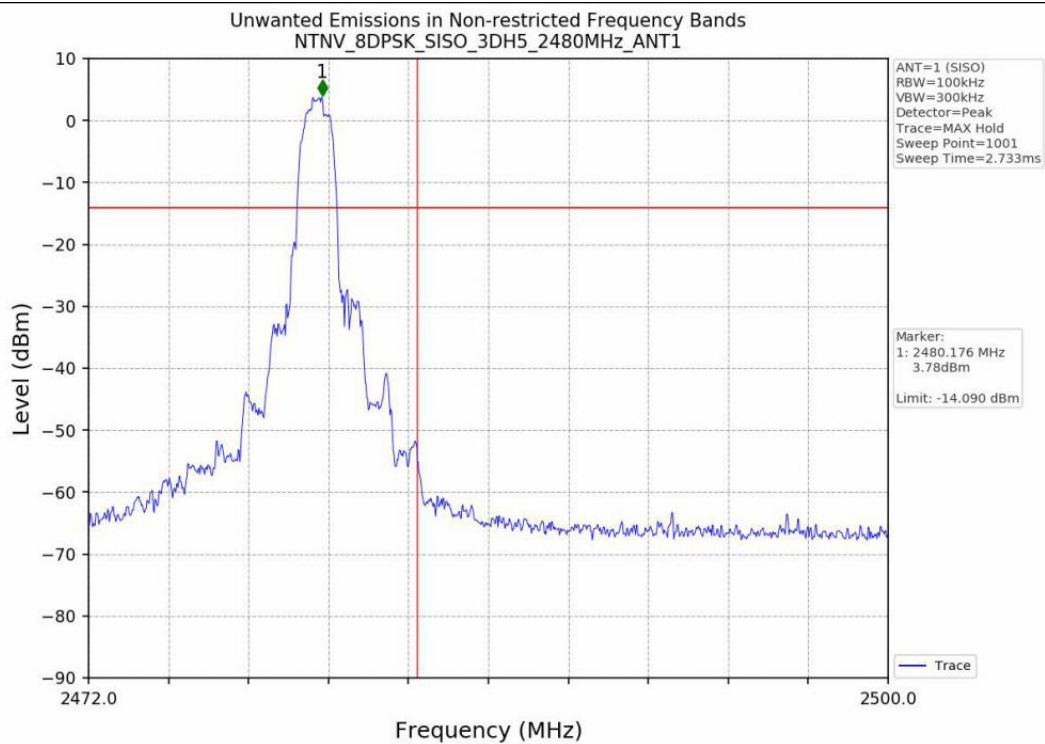


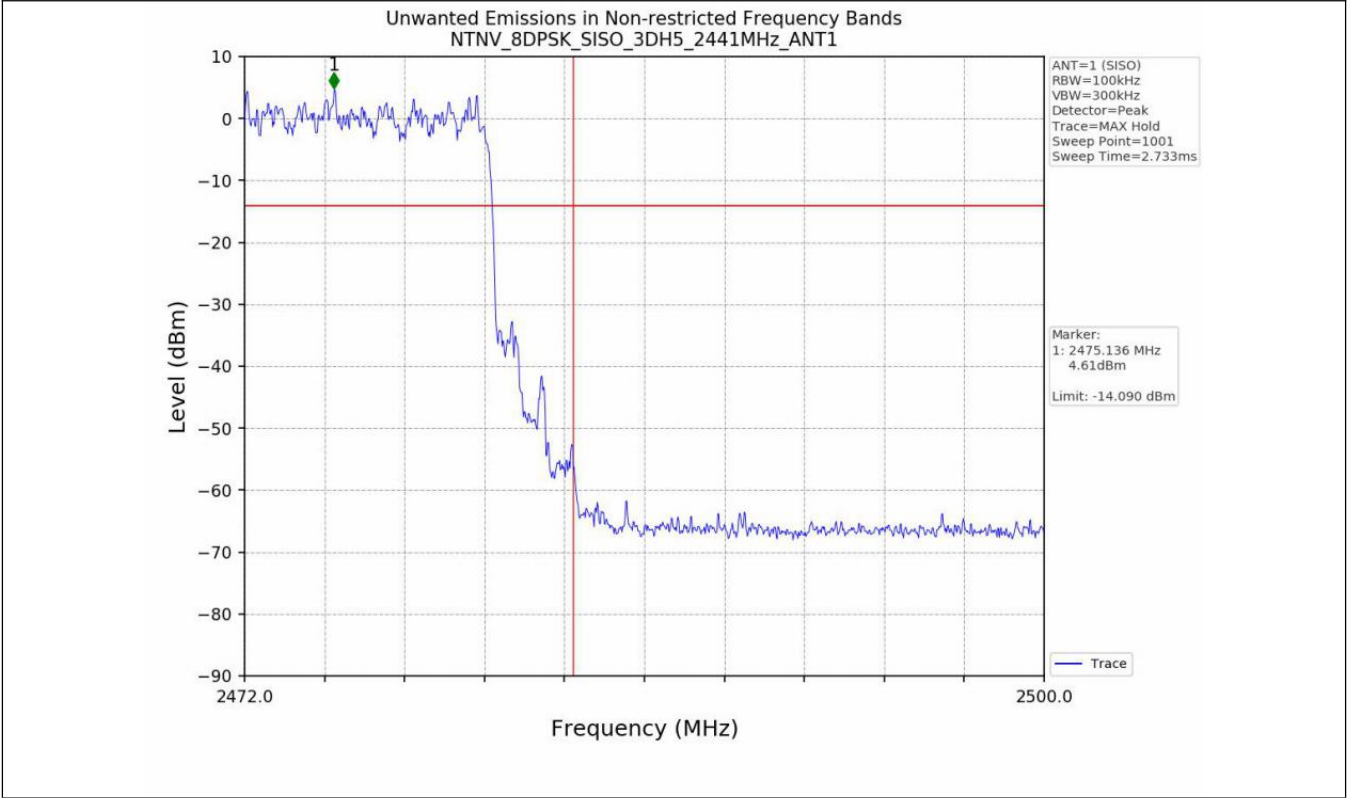
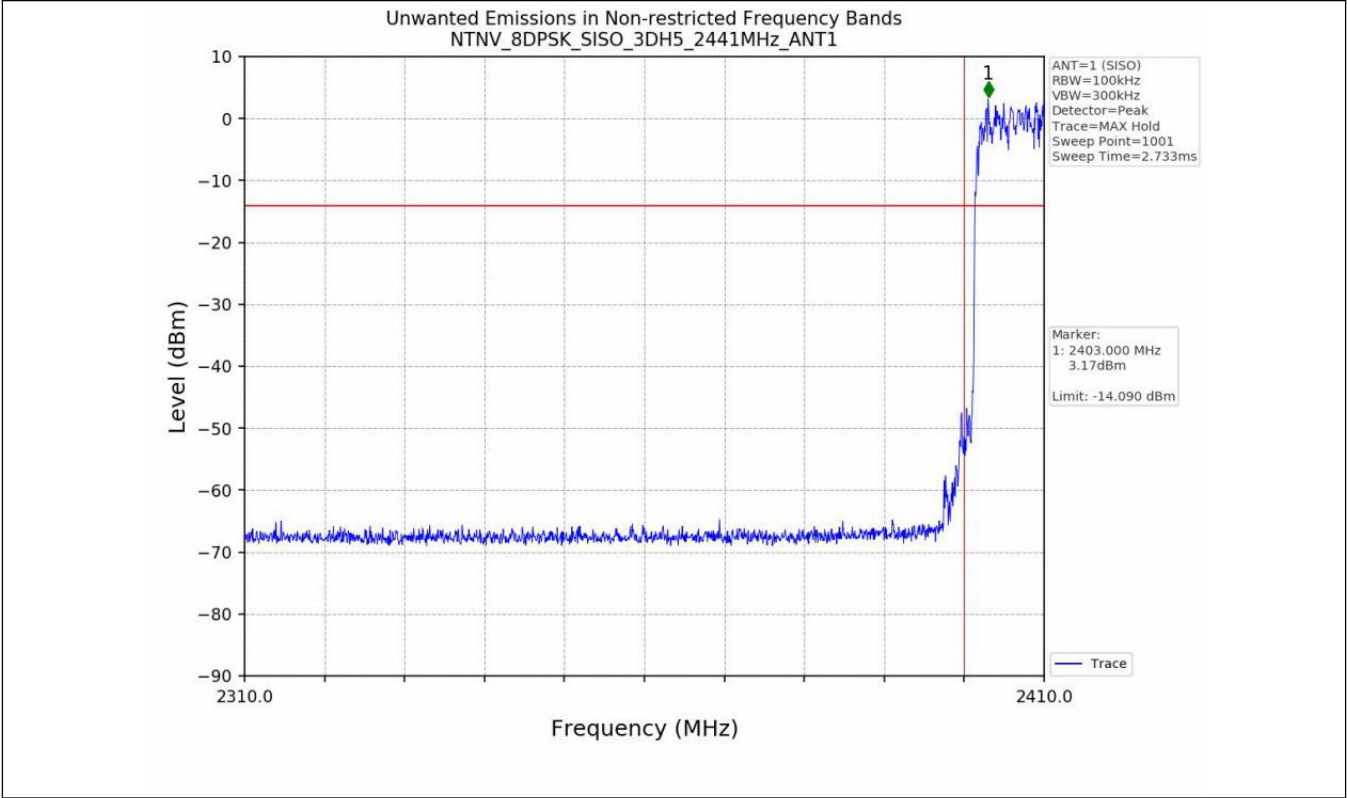
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2402MHz_ANT1



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2441MHz_ANT1







7. Frequency Error

7.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT	Measured Frequency (MHz)		Verdict
				Test Result	Limit	
GFSK	2402	SISO	1	2401.99	2400-2483.5	PASS
	2441	SISO	1	2440.99	2400-2483.5	PASS
	2480	SISO	1	2479.99	2400-2483.5	PASS
Pi/4DQPSK	2402	SISO	1	2401.99	2400-2483.5	PASS
	2441	SISO	1	2440.99	2400-2483.5	PASS
	2480	SISO	1	2479.99	2400-2483.5	PASS

7.2 Test Graph

