



Appendix for 15.247

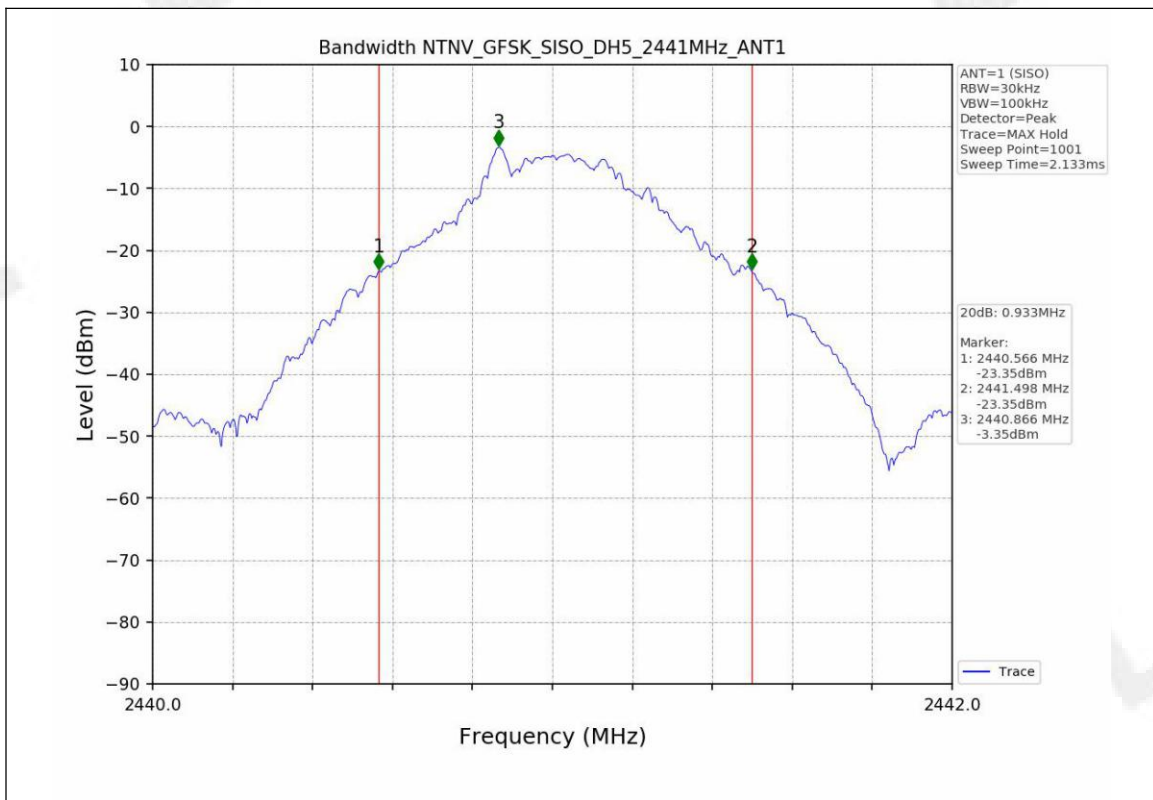
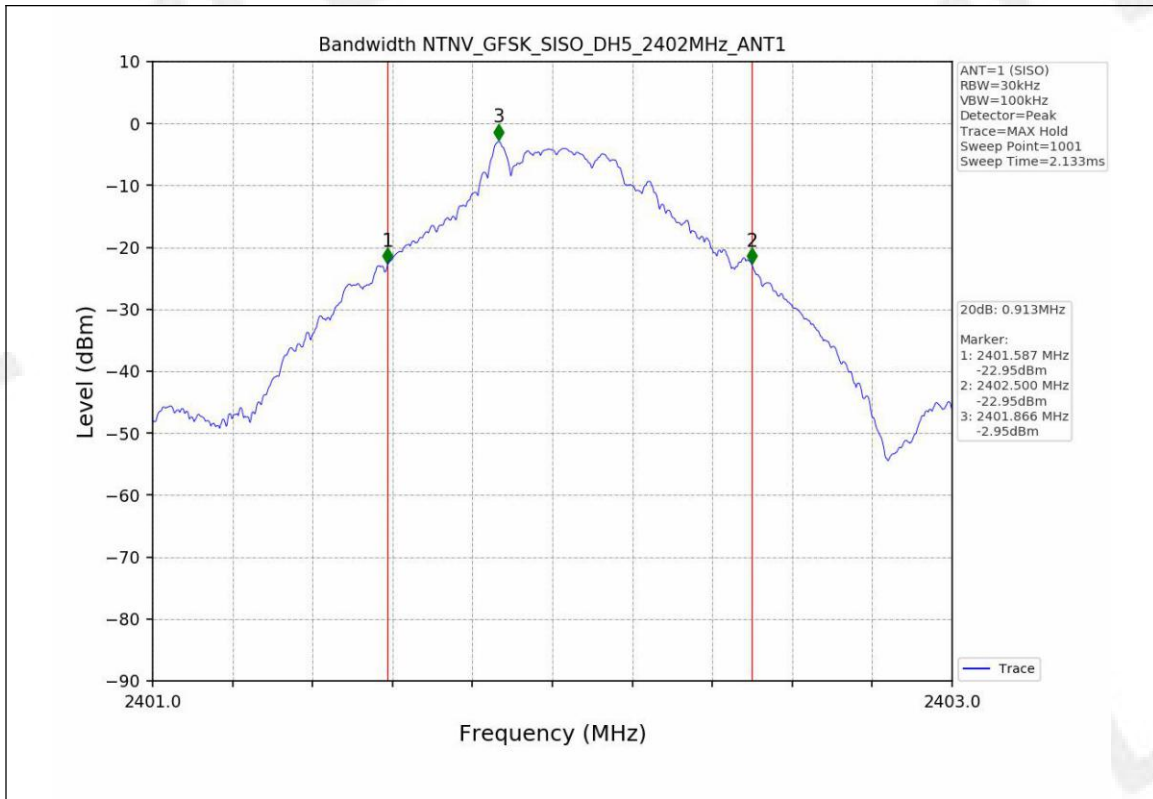
1. Bandwidth

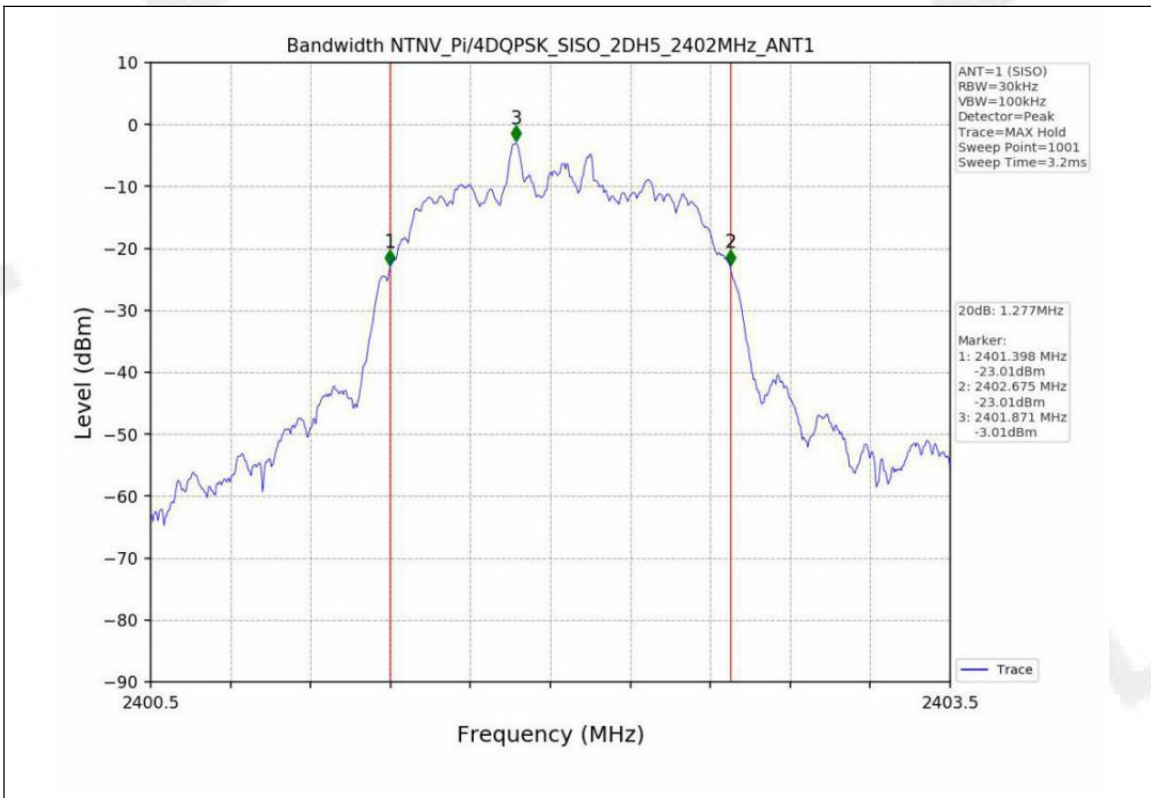
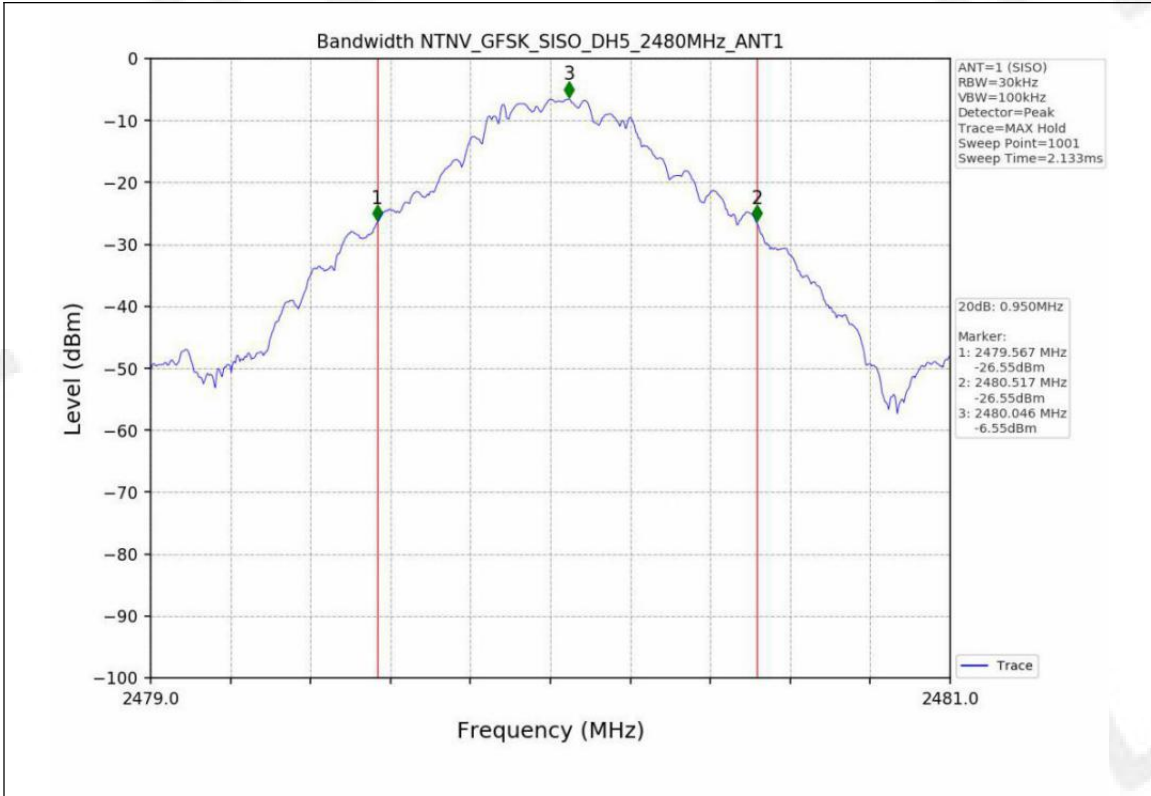
1.1 Test Result

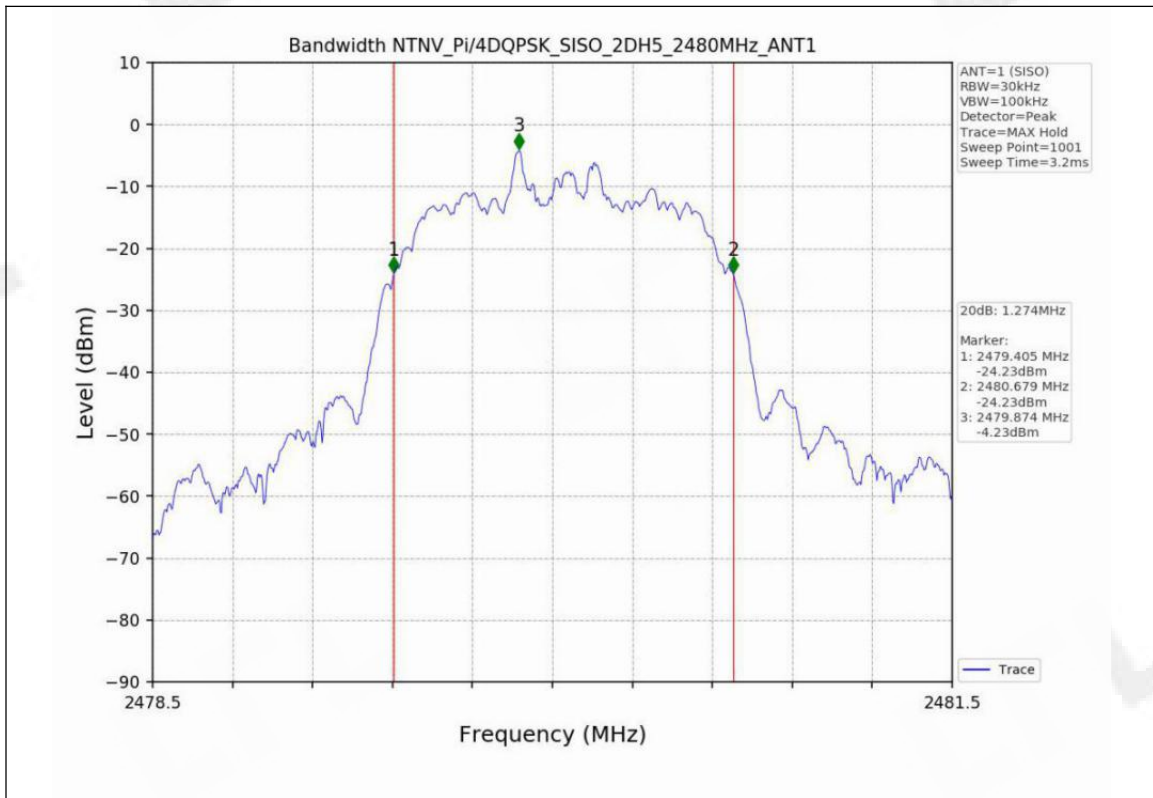
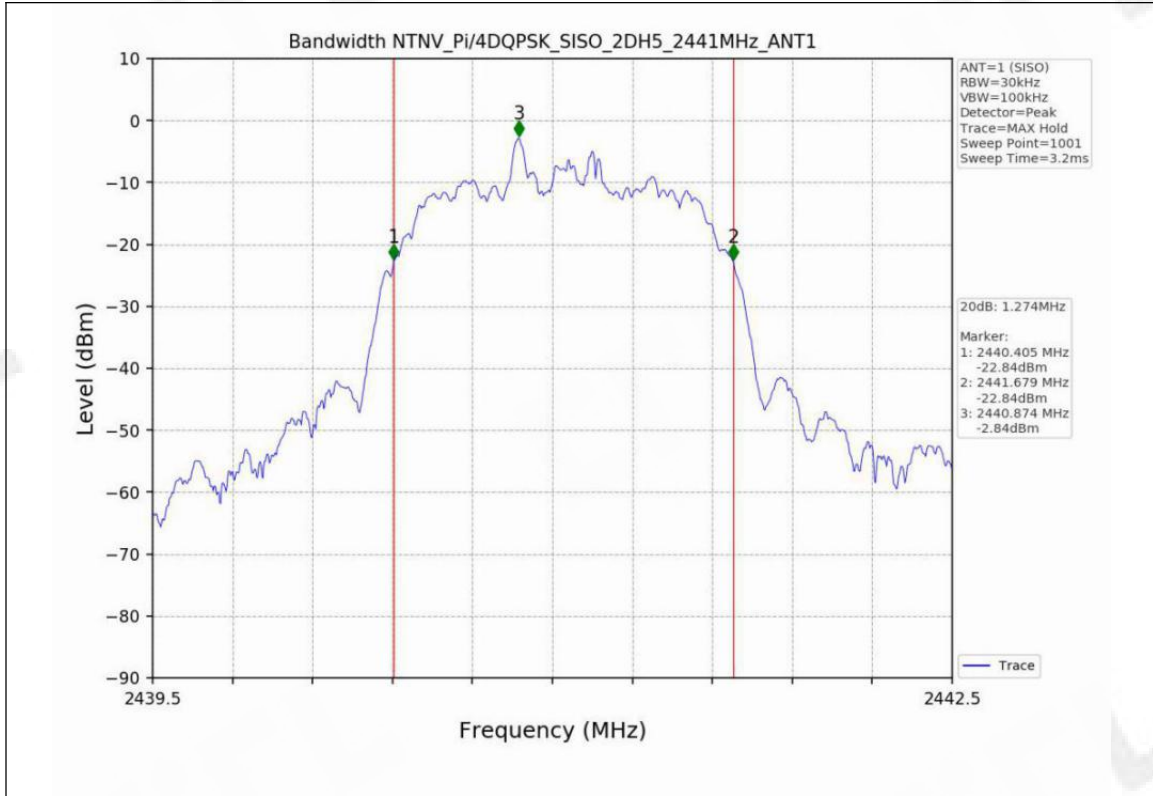
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.913	PASS
	2441	SISO	1	0.933	PASS
	2480	SISO	1	0.950	PASS
Pi/4DQPSK	2402	SISO	1	1.277	PASS
	2441	SISO	1	1.274	PASS
	2480	SISO	1	1.274	PASS
8DPSK	2402	SISO	1	1.300	PASS
	2441	SISO	1	1.301	PASS
	2480	SISO	1	1.298	PASS

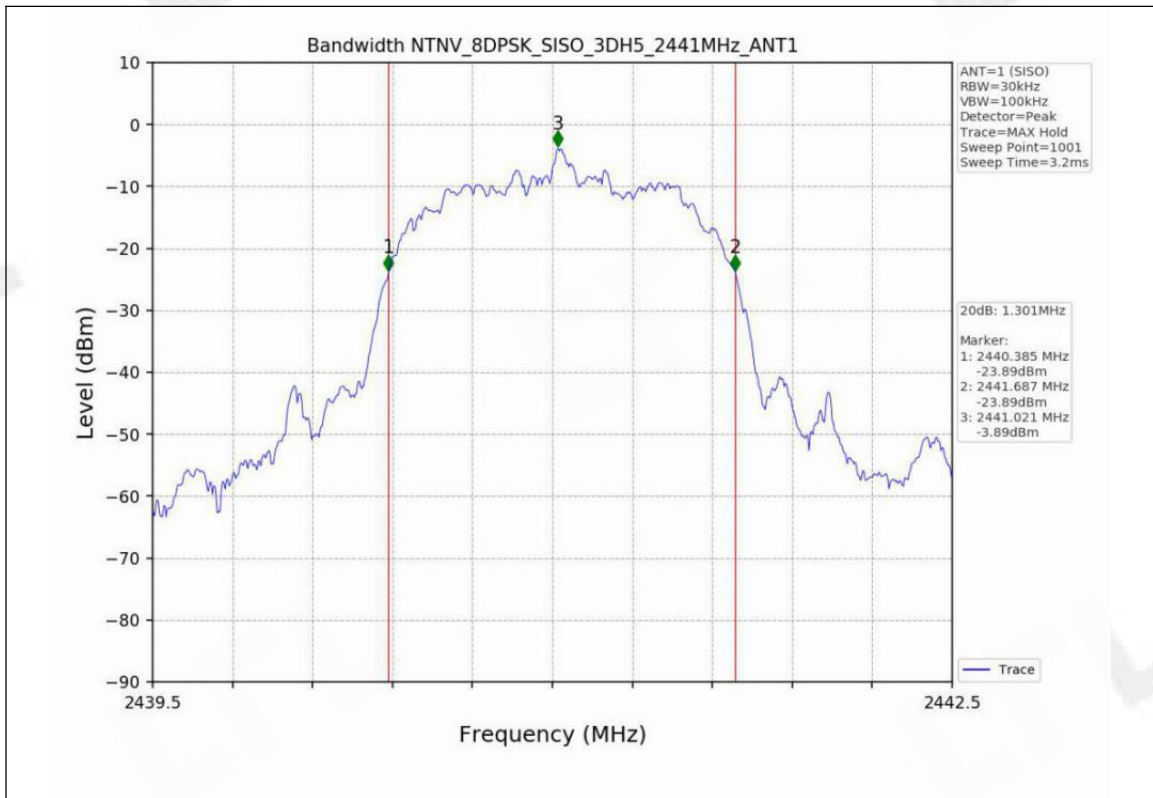
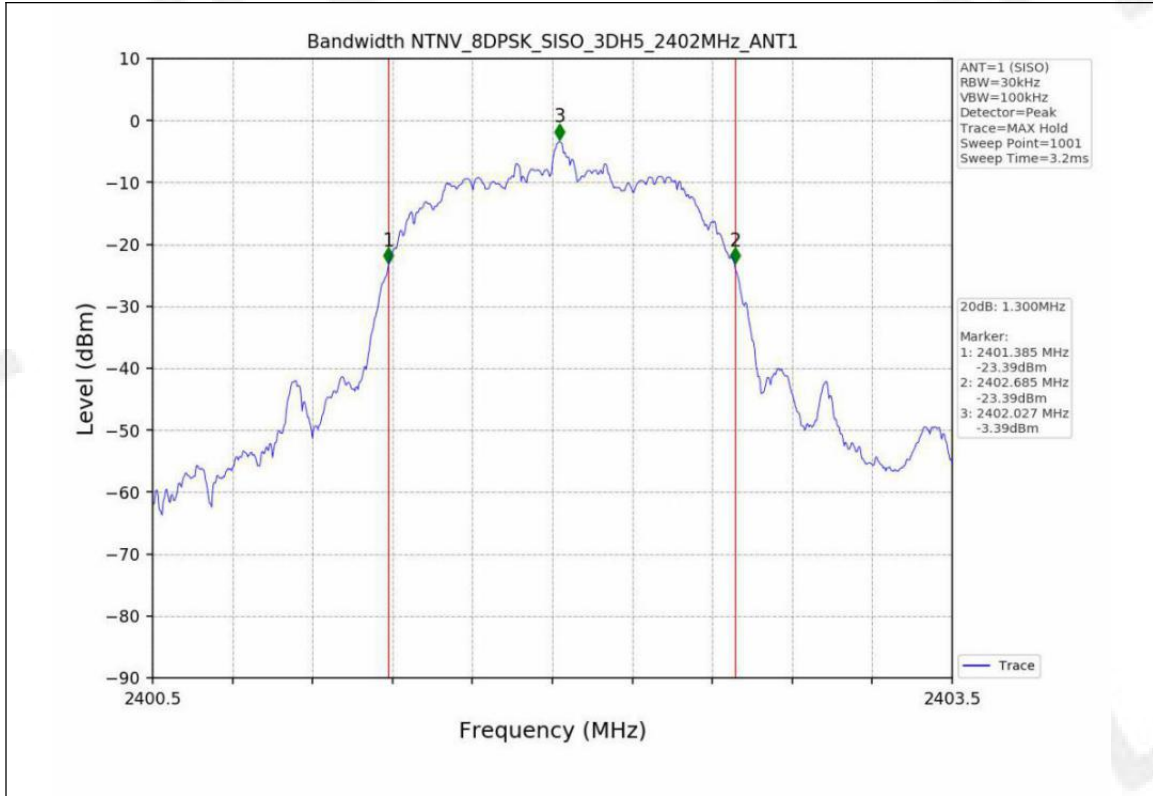
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.836	Only for Report Use
	2441	SISO	1	0.840	Only for Report Use
	2480	SISO	1	0.826	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.169	Only for Report Use
	2441	SISO	1	1.168	Only for Report Use
	2480	SISO	1	1.171	Only for Report Use
8DPSK	2402	SISO	1	1.187	Only for Report Use
	2441	SISO	1	1.186	Only for Report Use
	2480	SISO	1	1.186	Only for Report Use

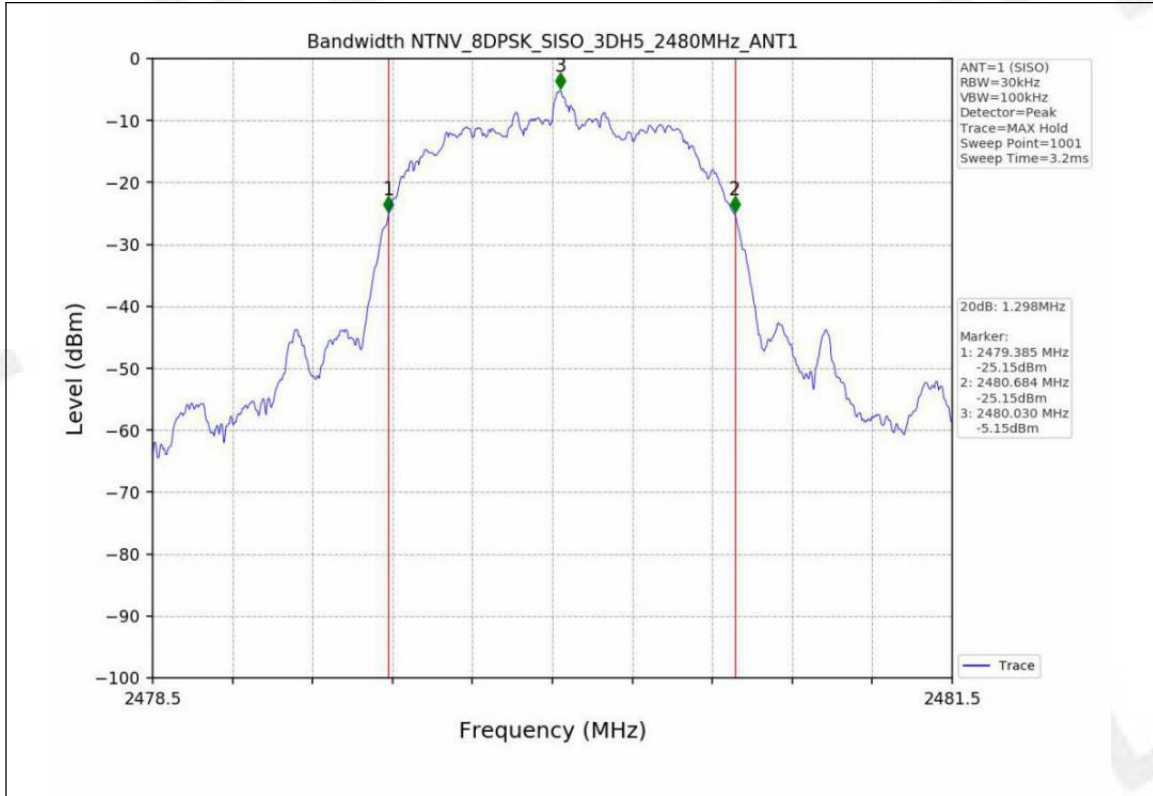
1.2 Test Graph - 20dB Bandwidth



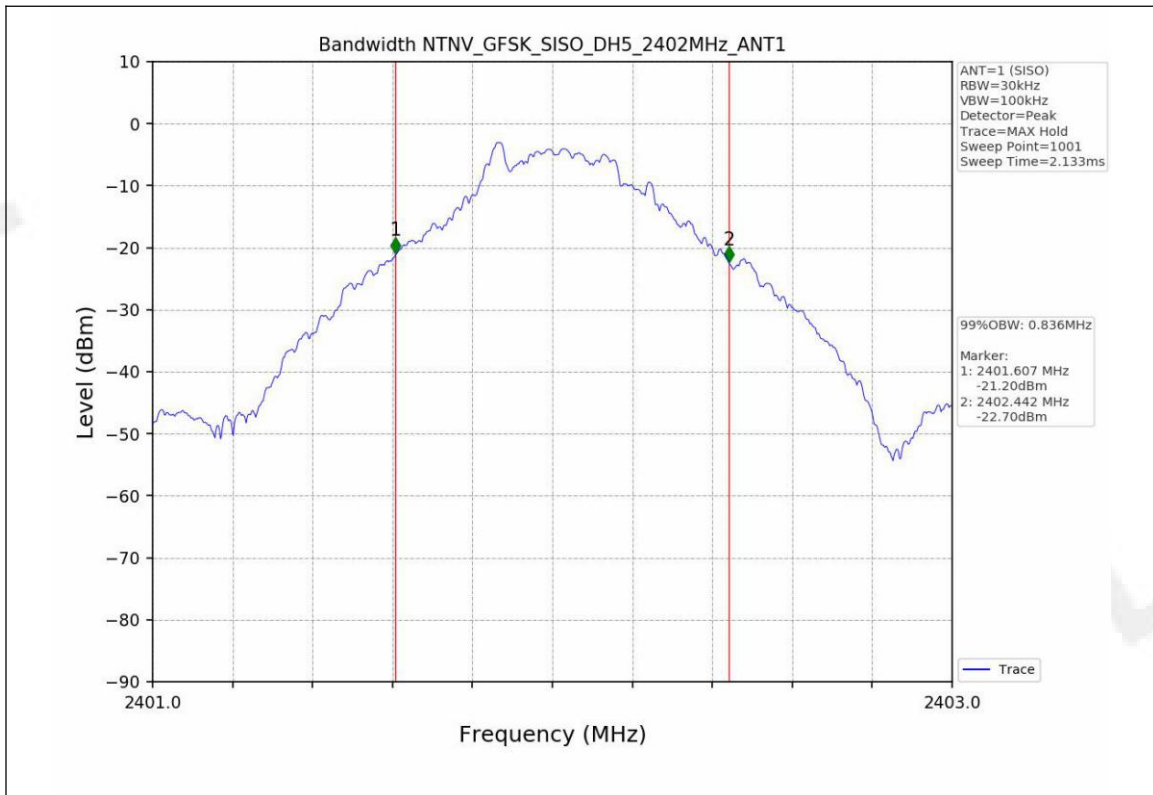


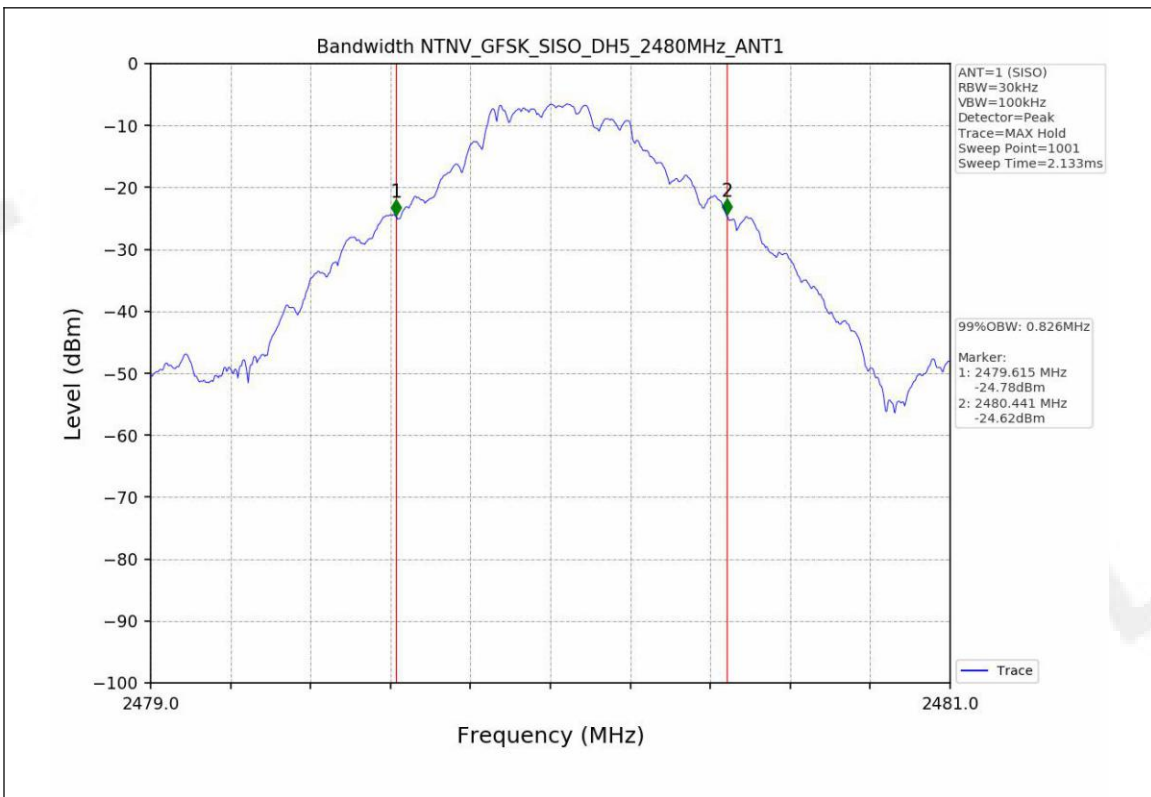
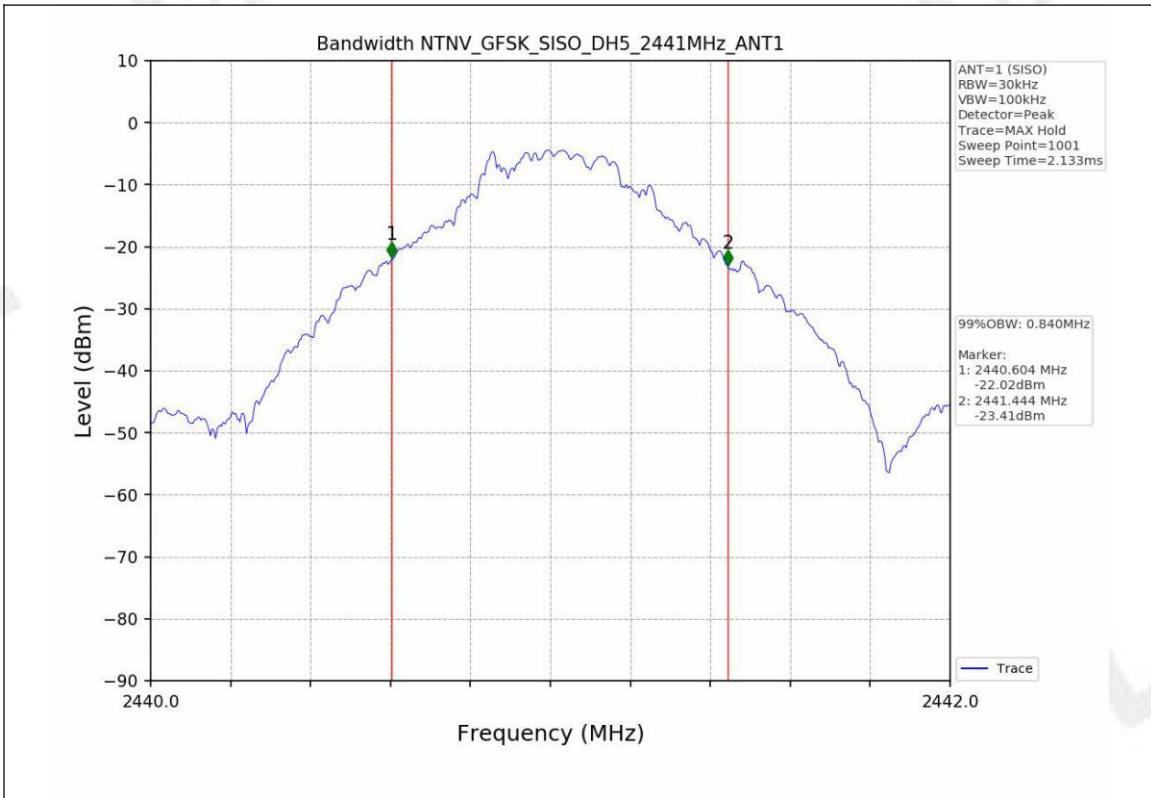


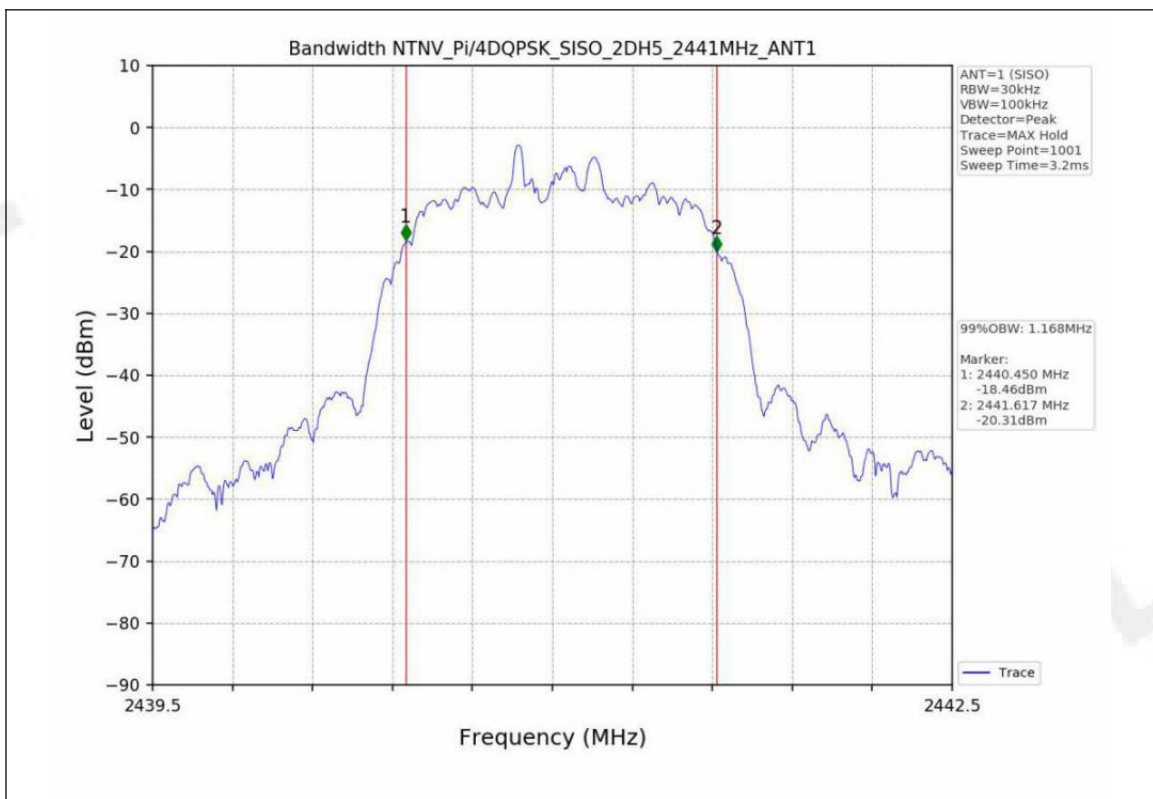
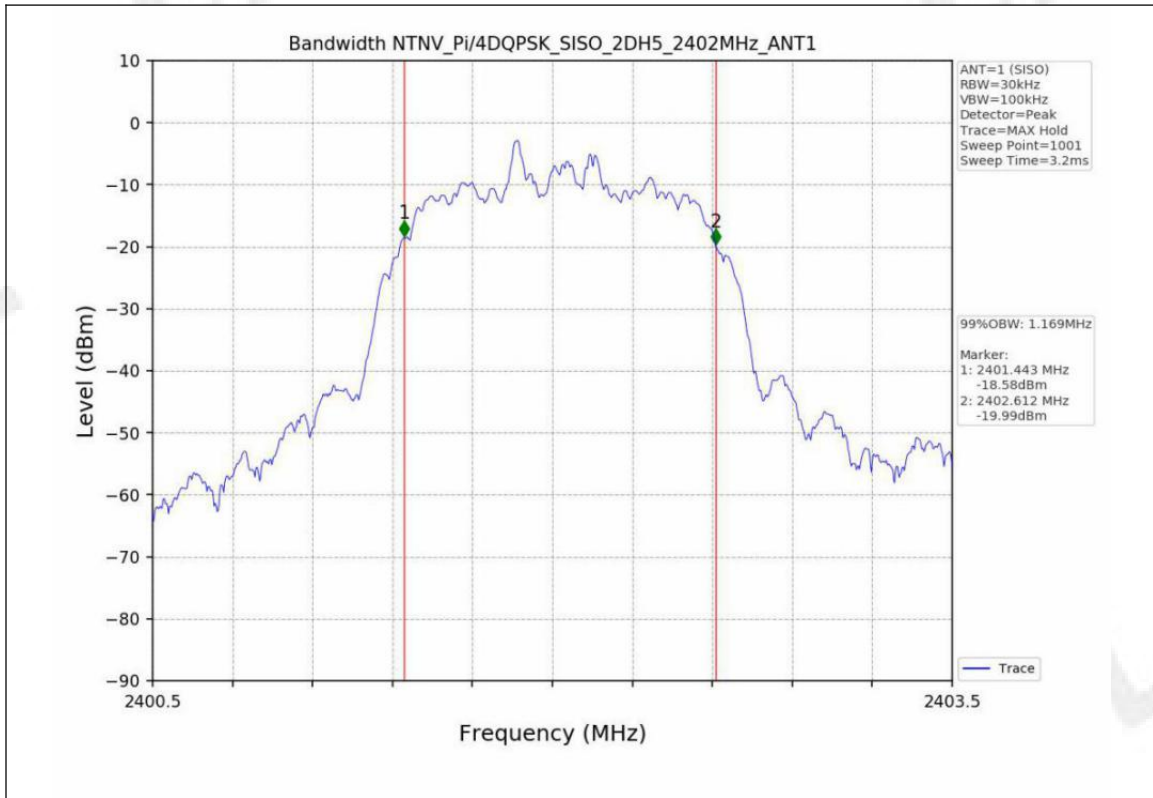


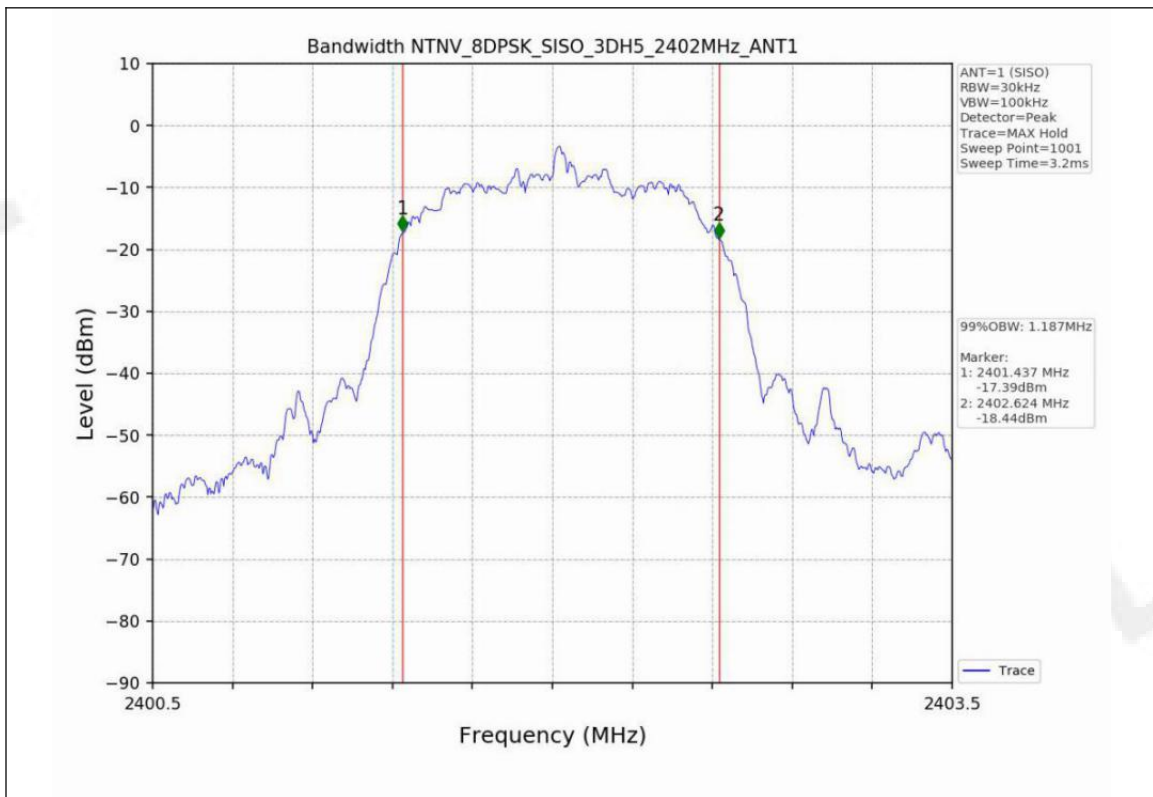
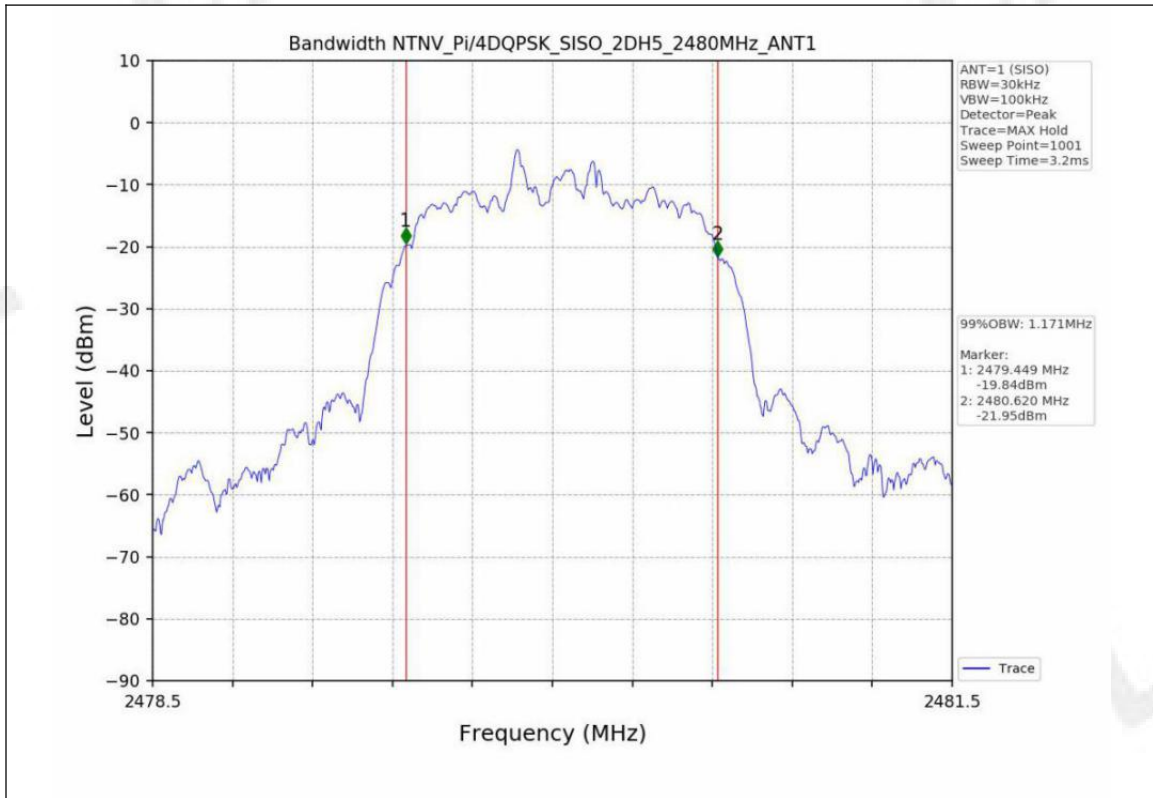


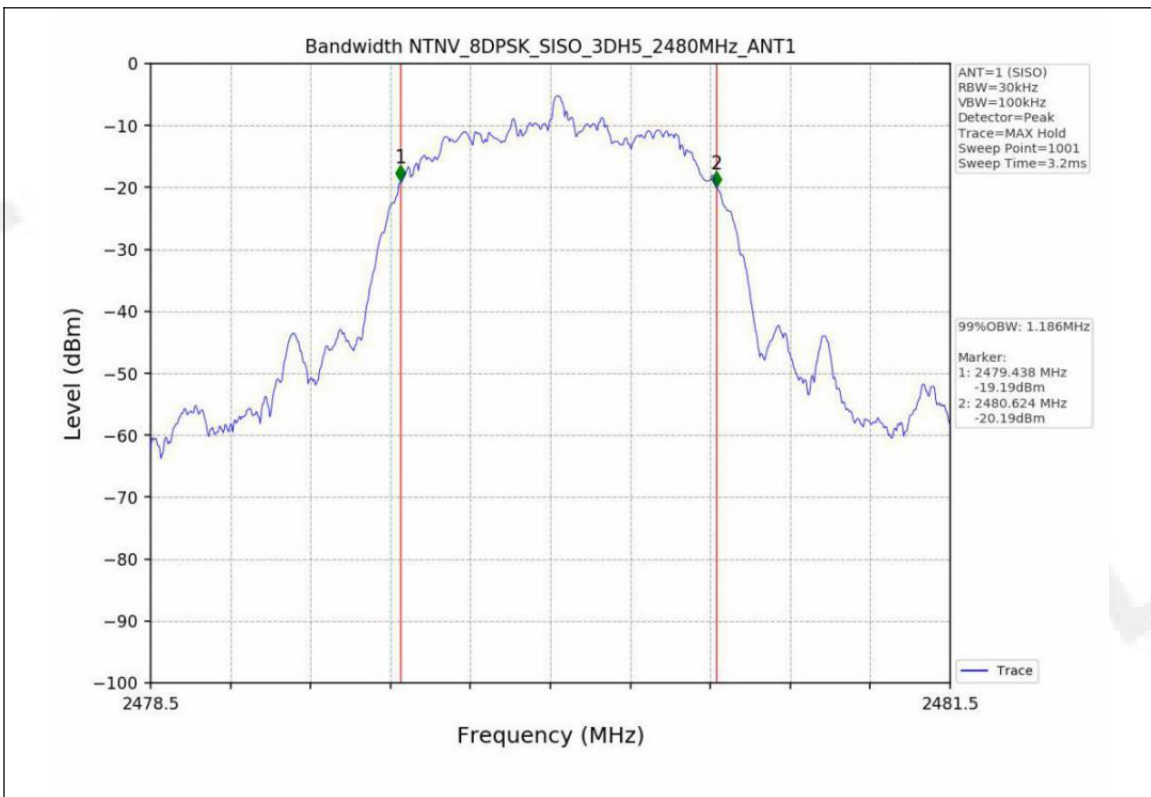
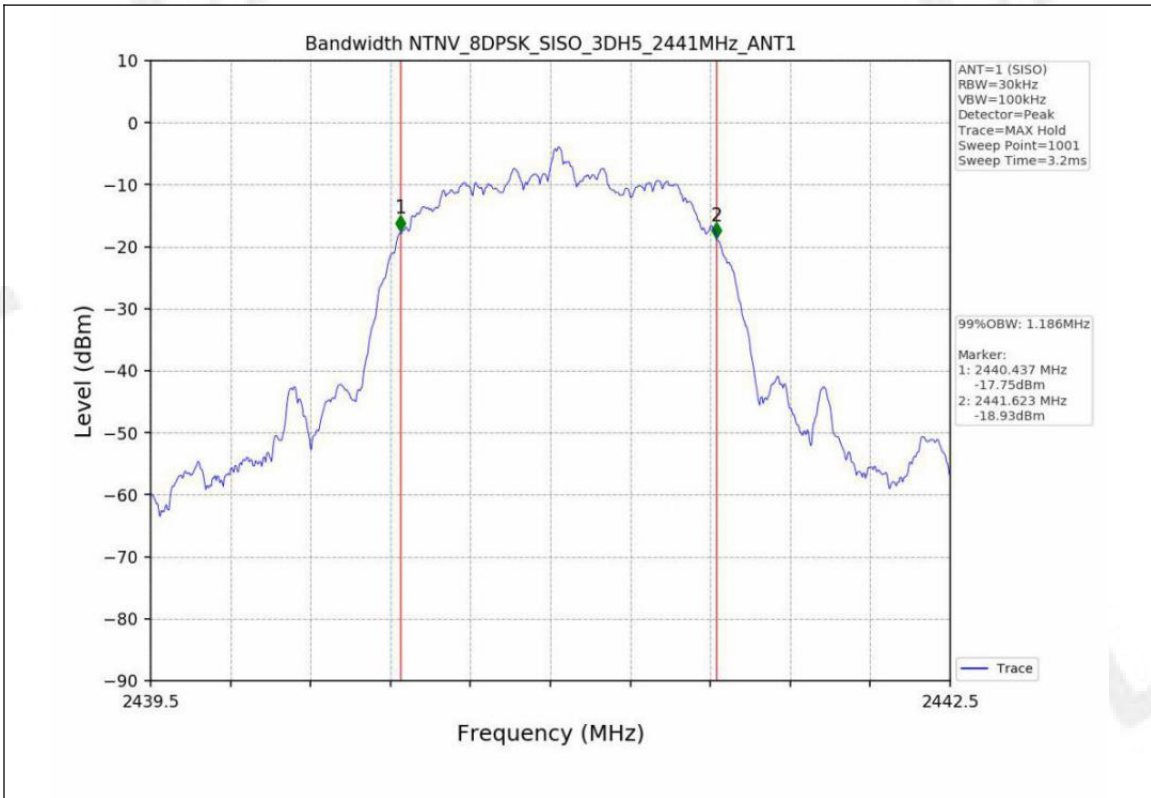
1.3 Test Graph - 99% Occupied Bandwidth









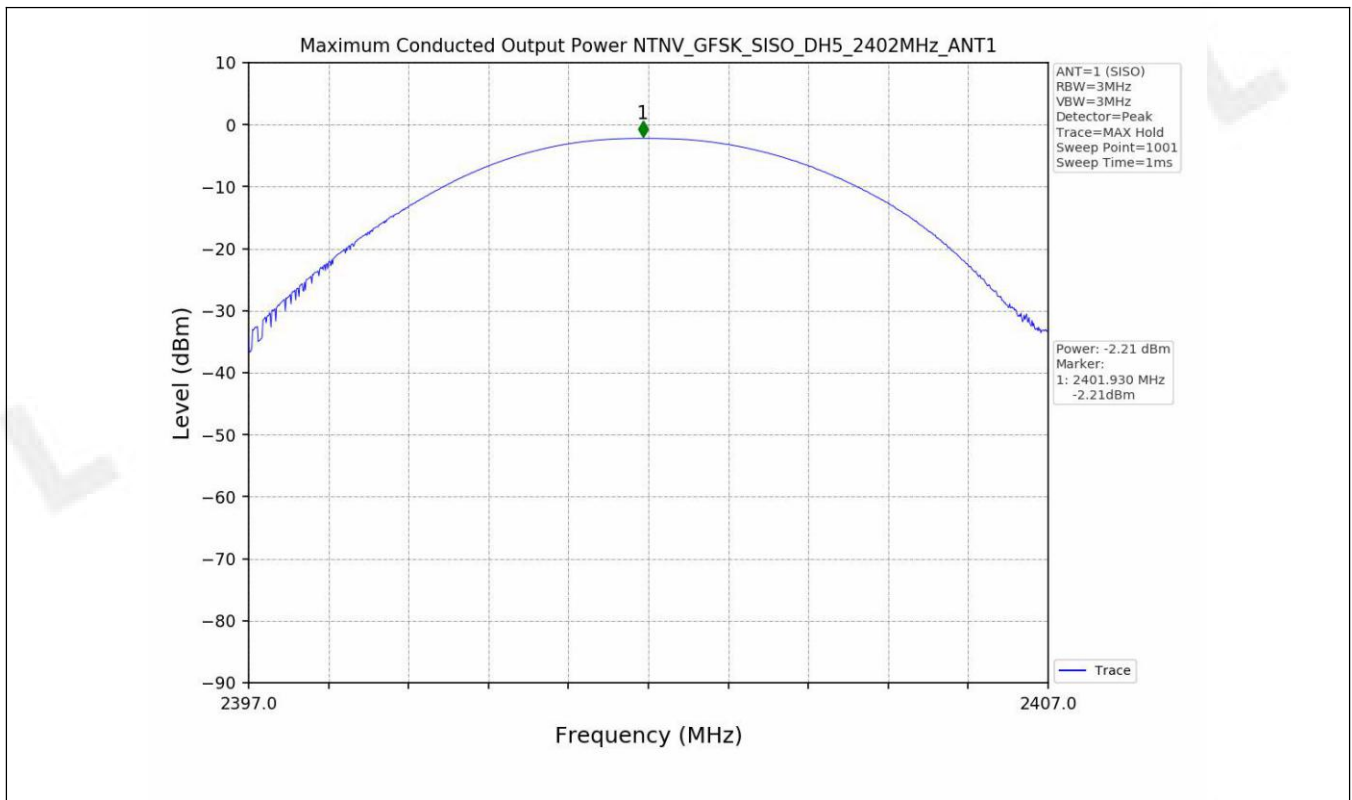


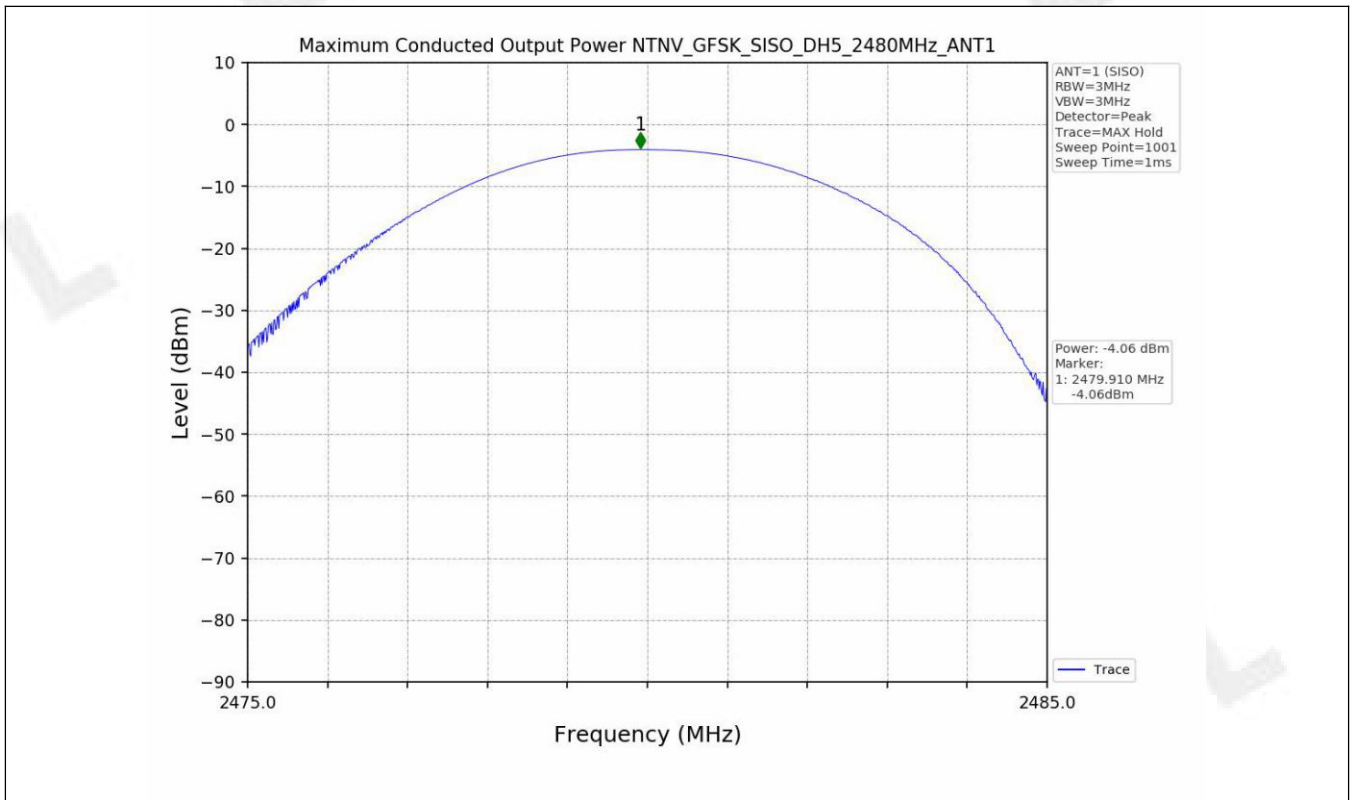
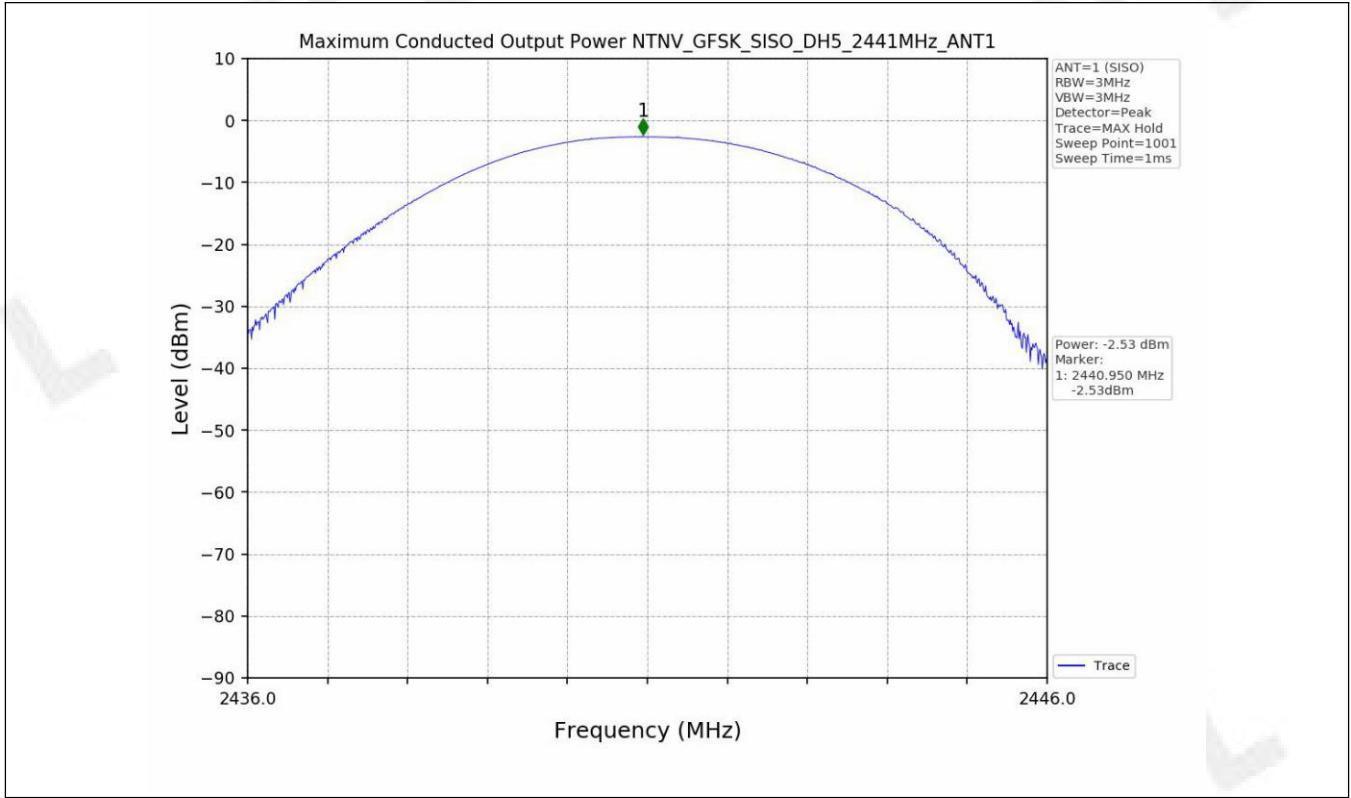
2. Maximum Conducted Output Power

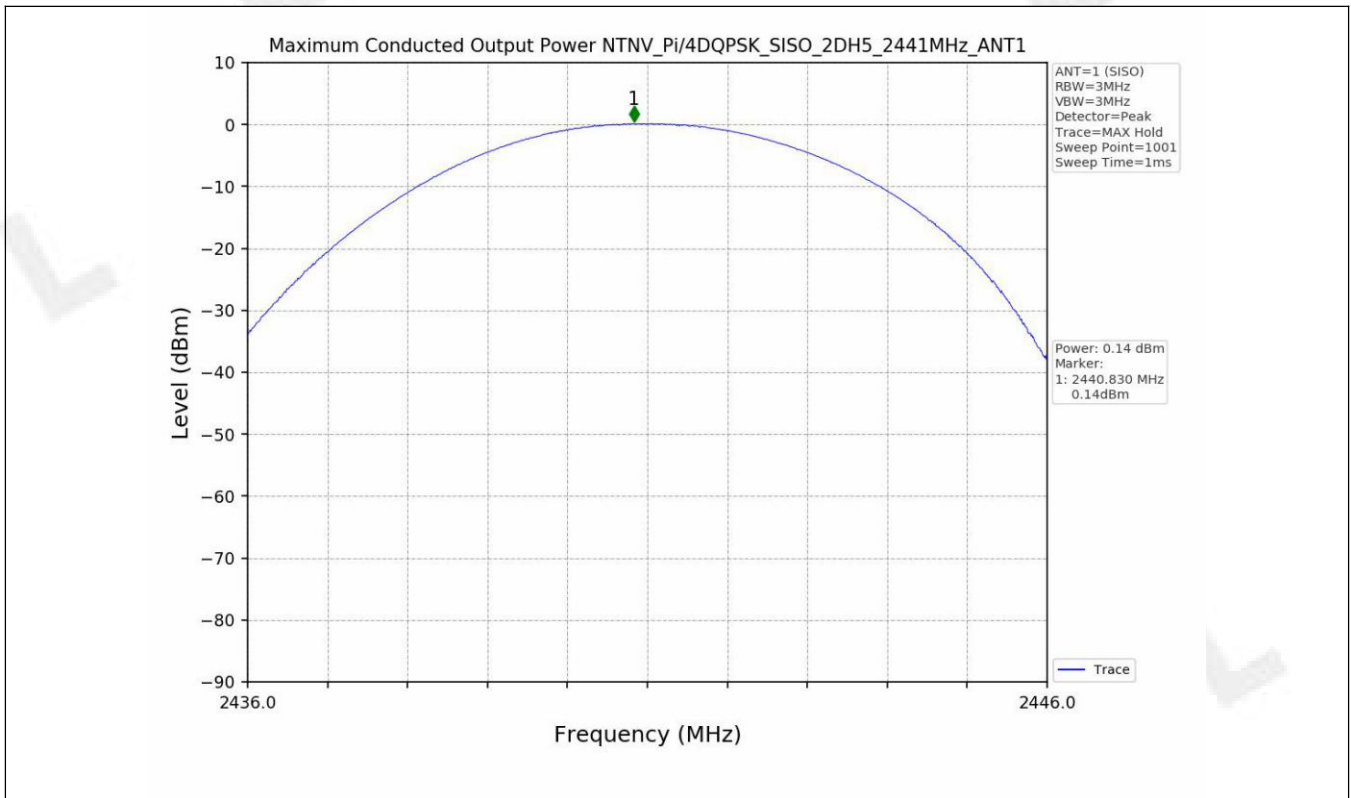
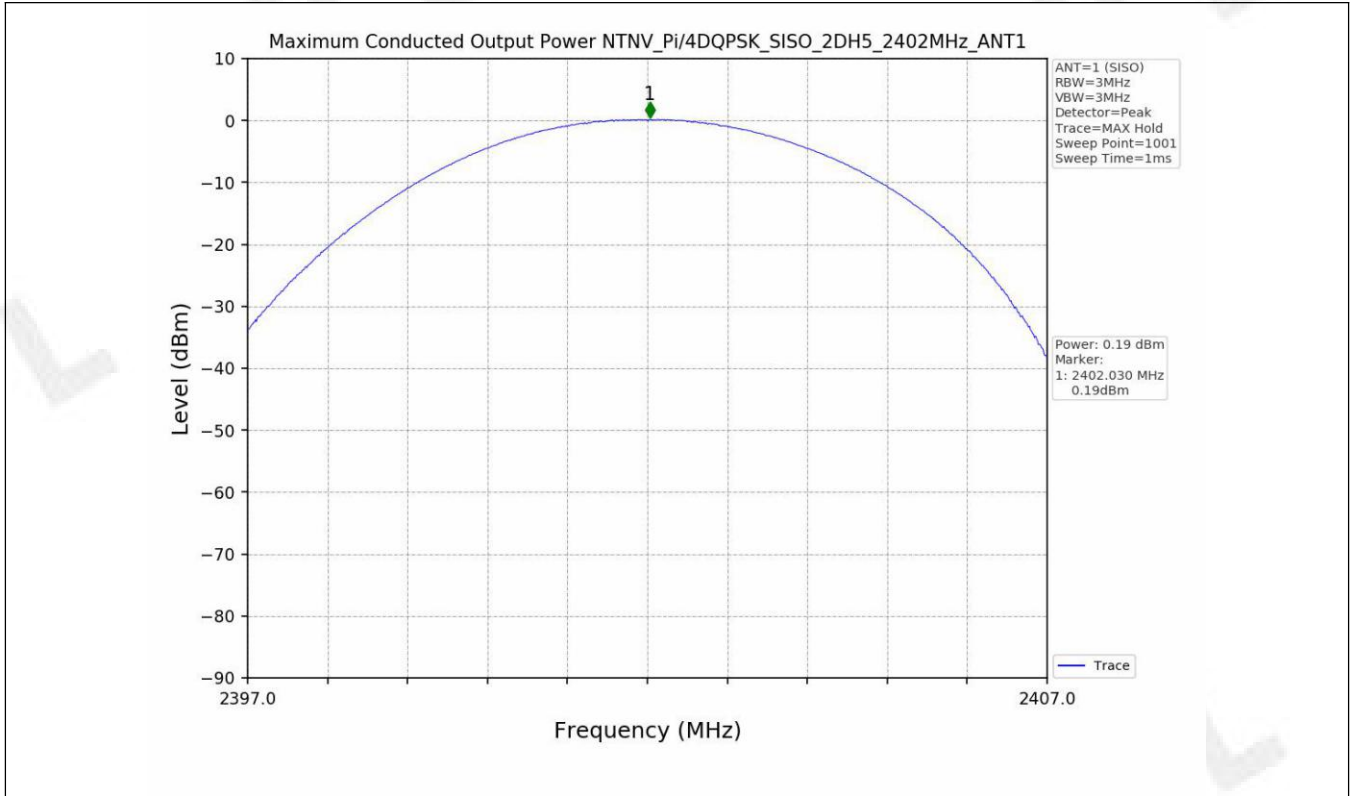
2.1 Test Result

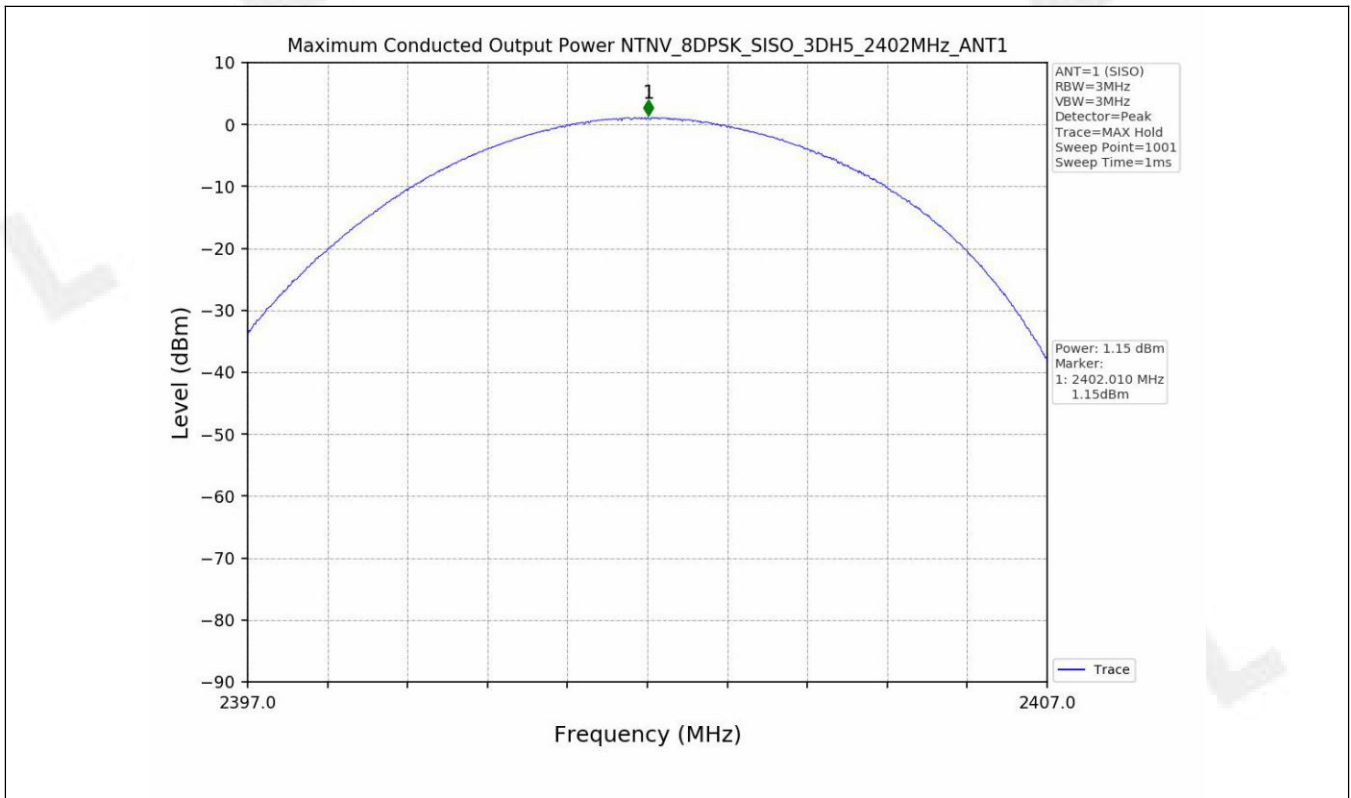
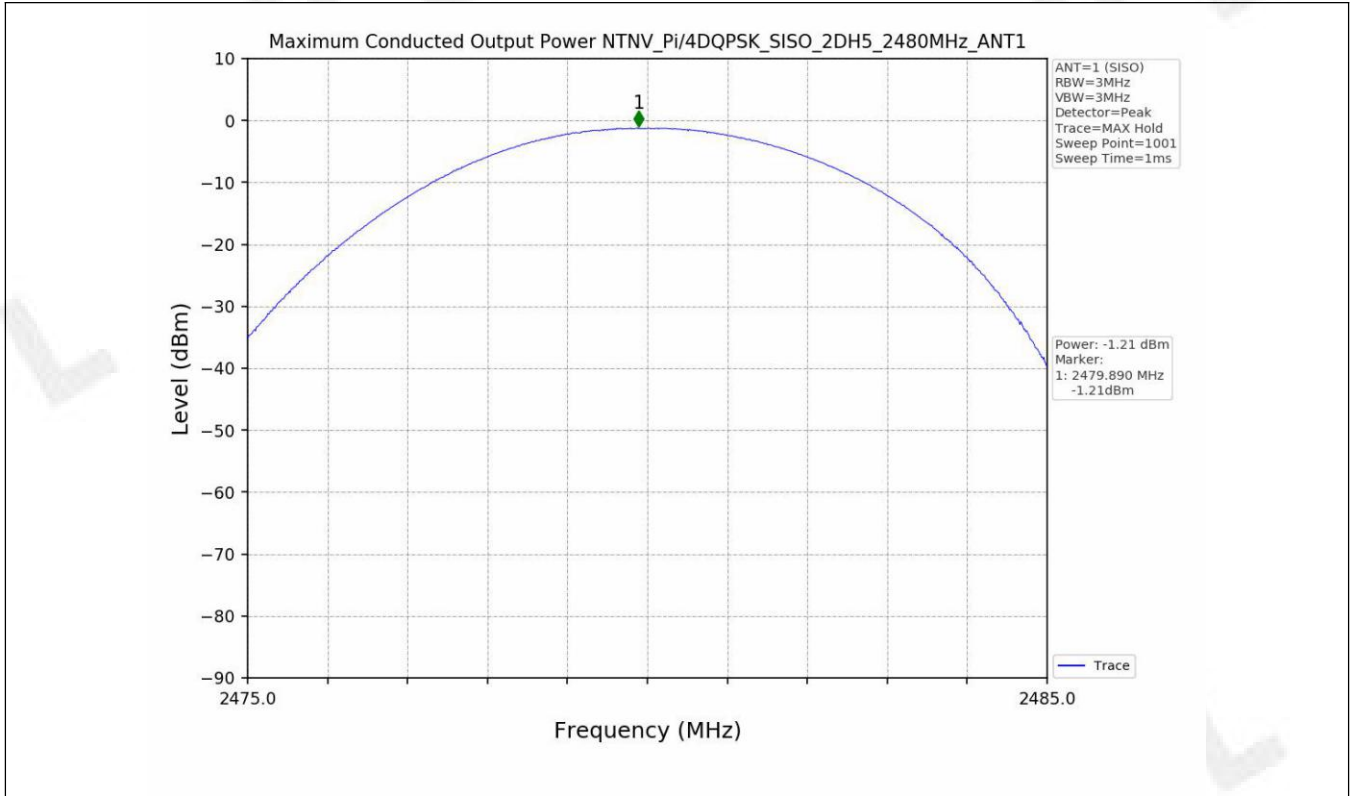
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	-2.21	30	PASS
	2441	SISO	-2.53	30	PASS
	2480	SISO	-4.06	30	PASS
Pi/4DQPSK	2402	SISO	0.19	20.97	PASS
	2441	SISO	0.14	20.97	PASS
	2480	SISO	-1.21	20.97	PASS
8DPSK	2402	SISO	1.15	20.97	PASS
	2441	SISO	0.78	20.97	PASS
	2480	SISO	-0.59	20.97	PASS

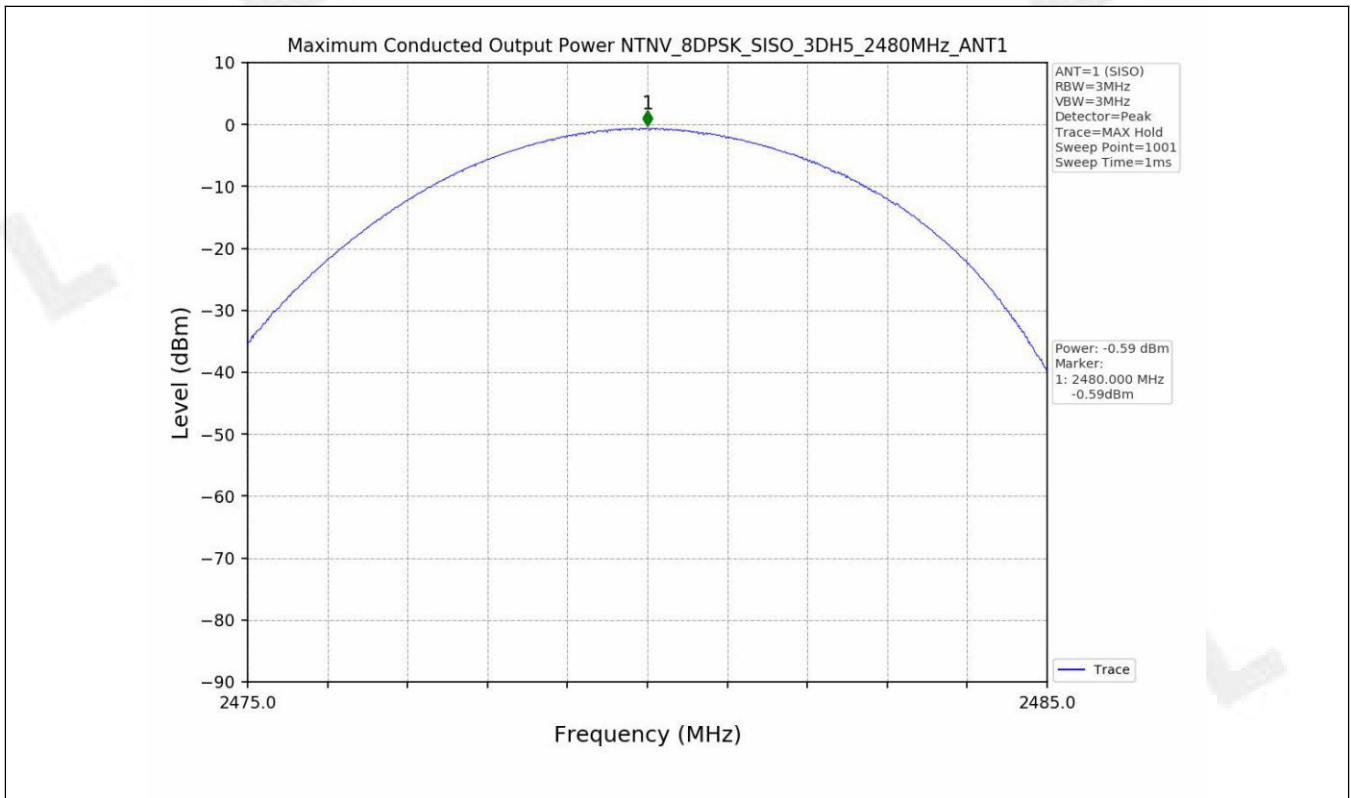
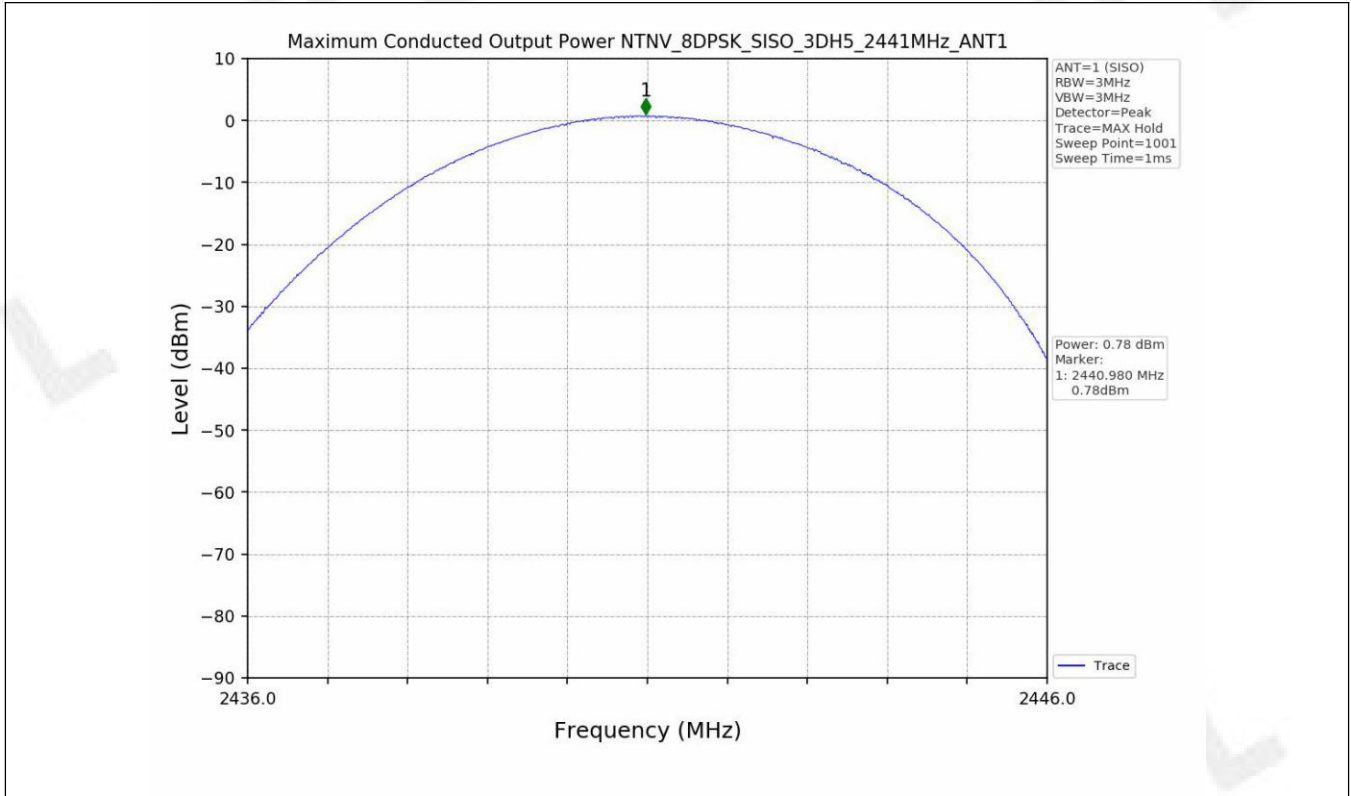
2.2 Test Graph









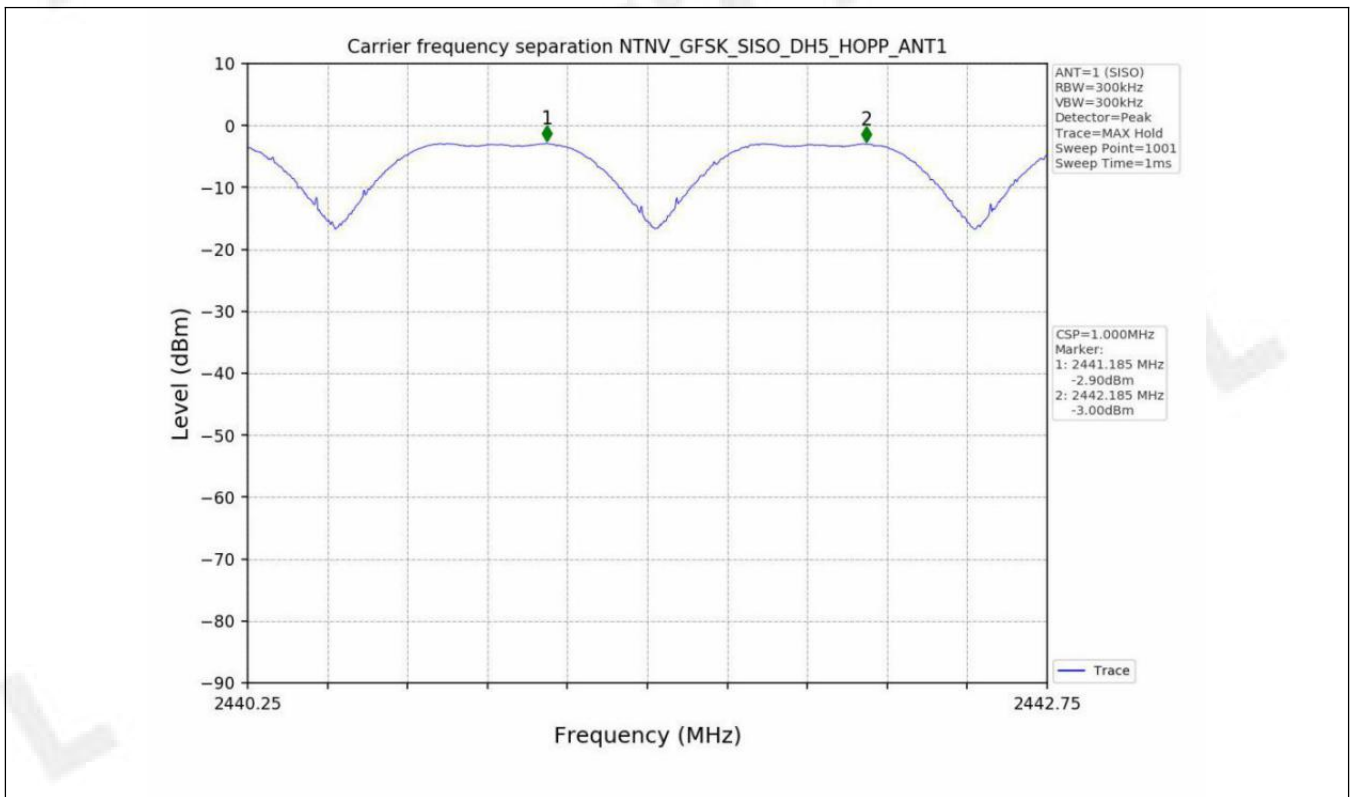


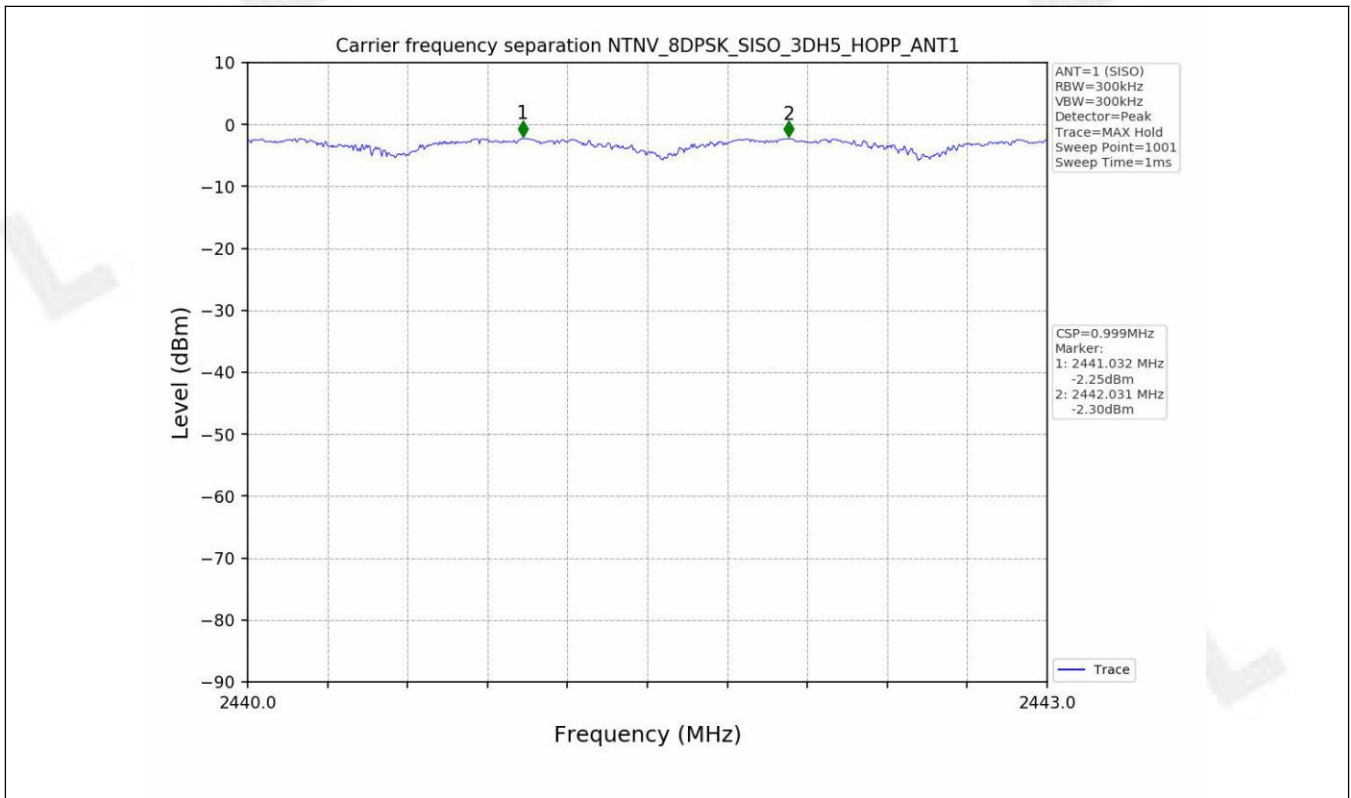
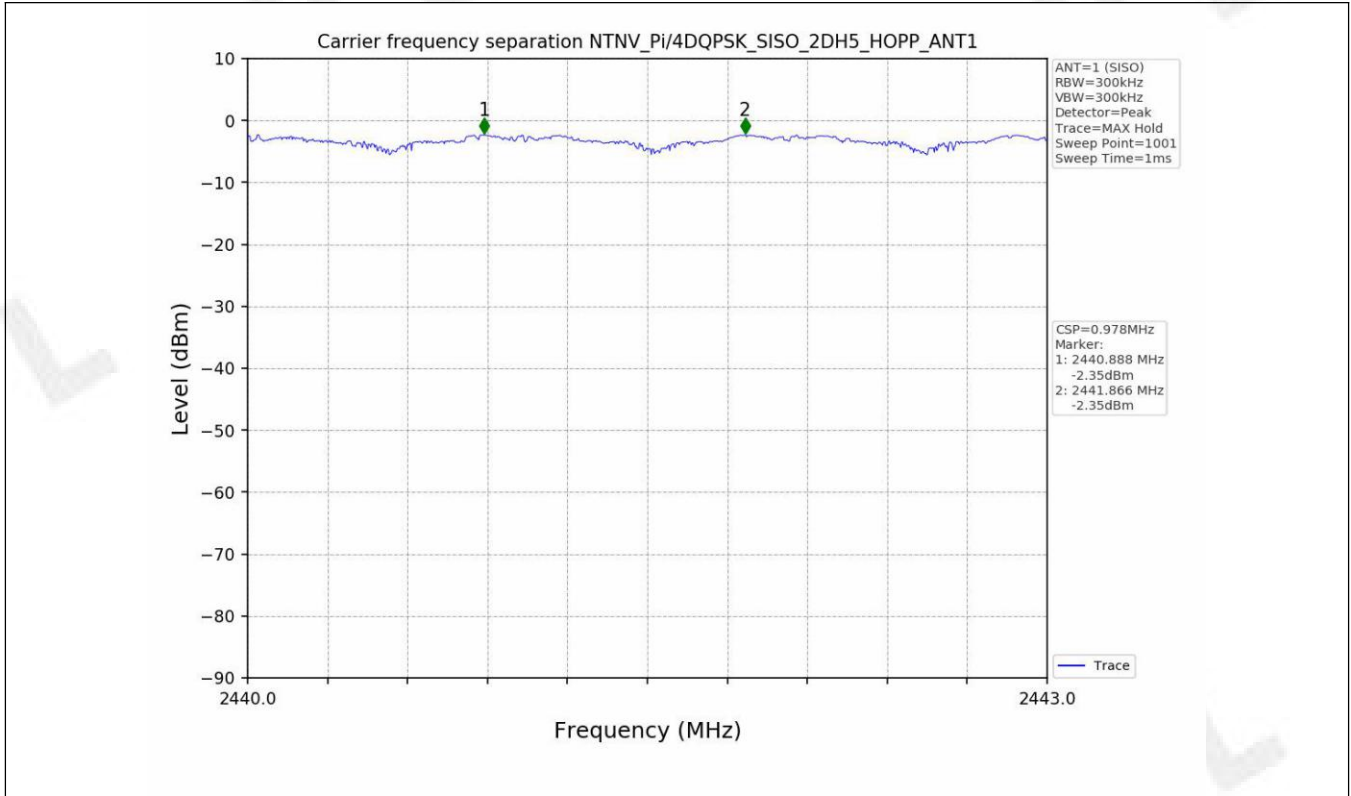
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.000	0.950	≥0.950	PASS
π/4DQPSK	SISO	1	0.978	1.277	≥0.851	PASS
8DPSK	SISO	1	0.999	1.301	≥0.867	PASS

3.2 Test Graph



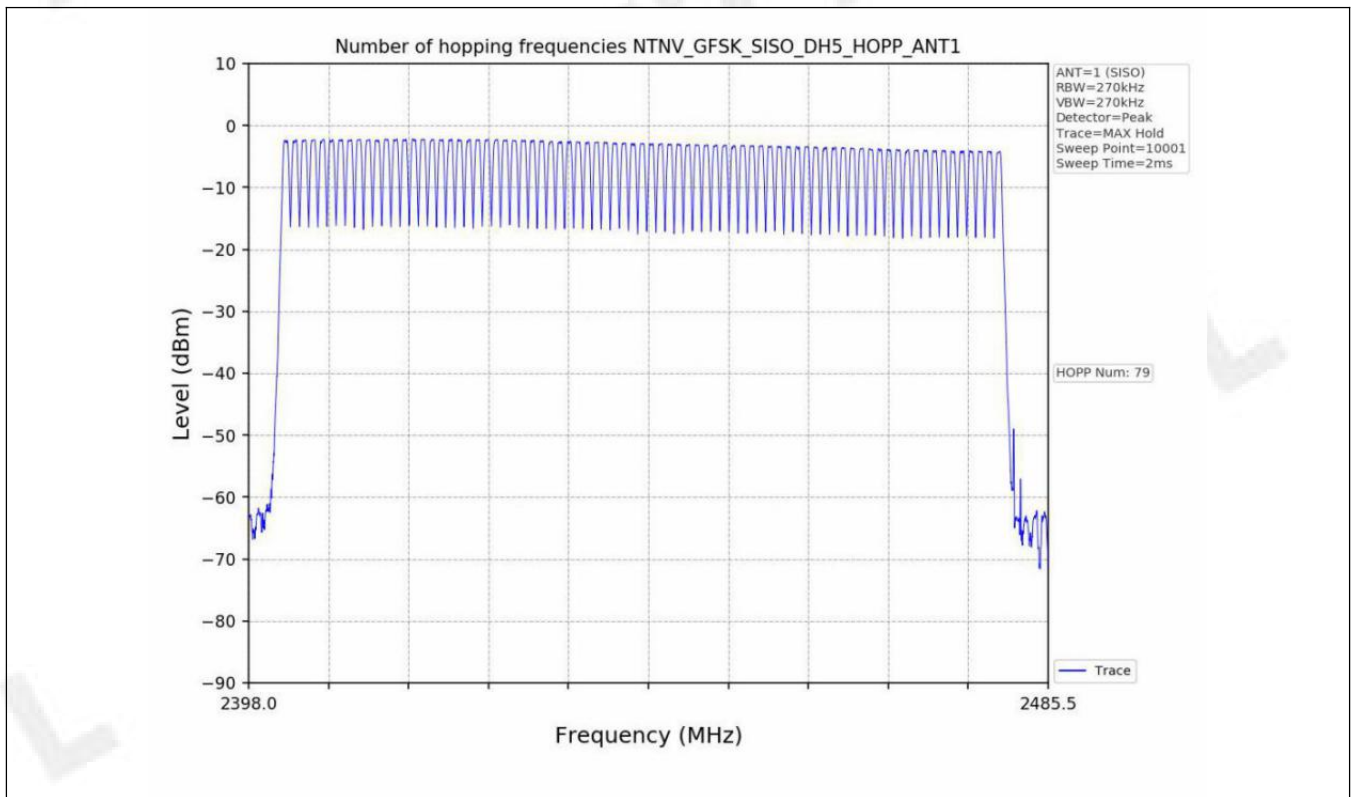


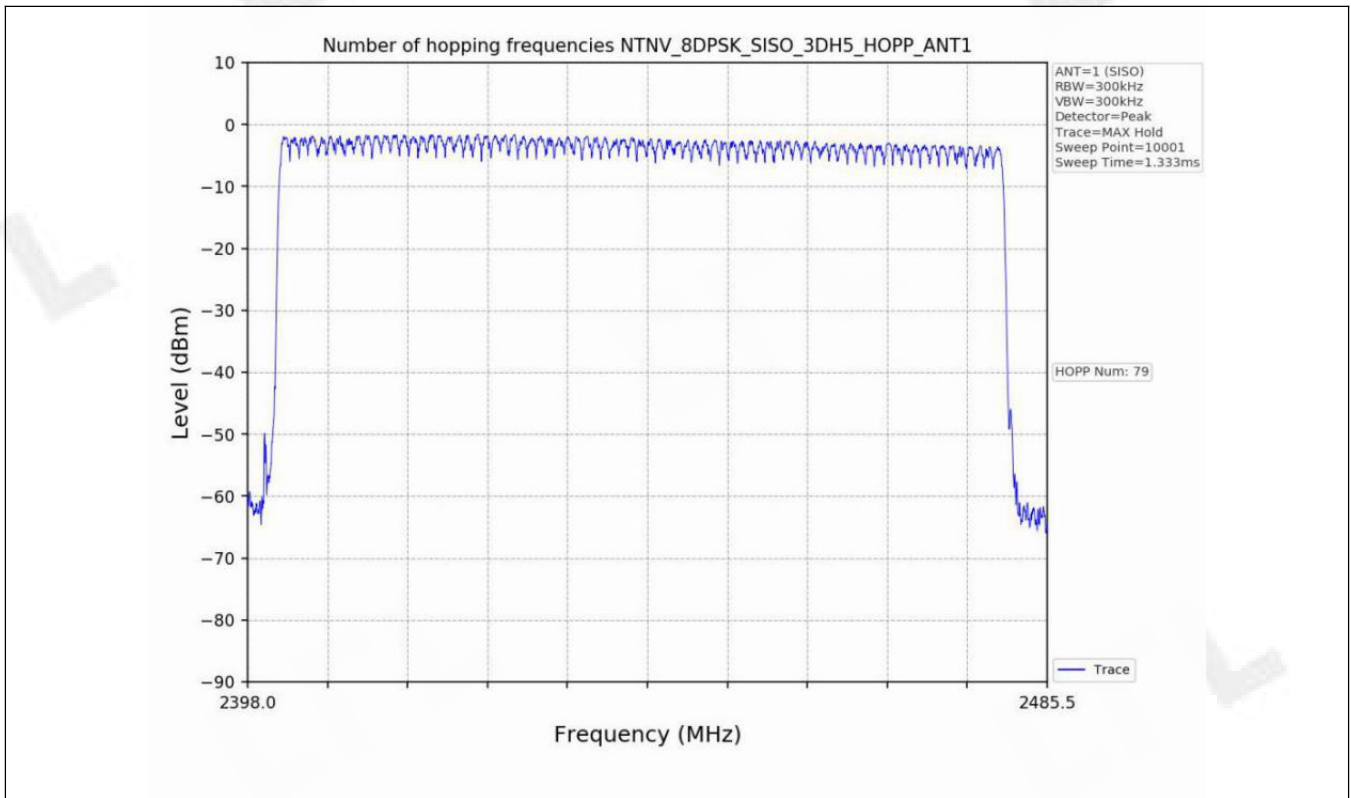
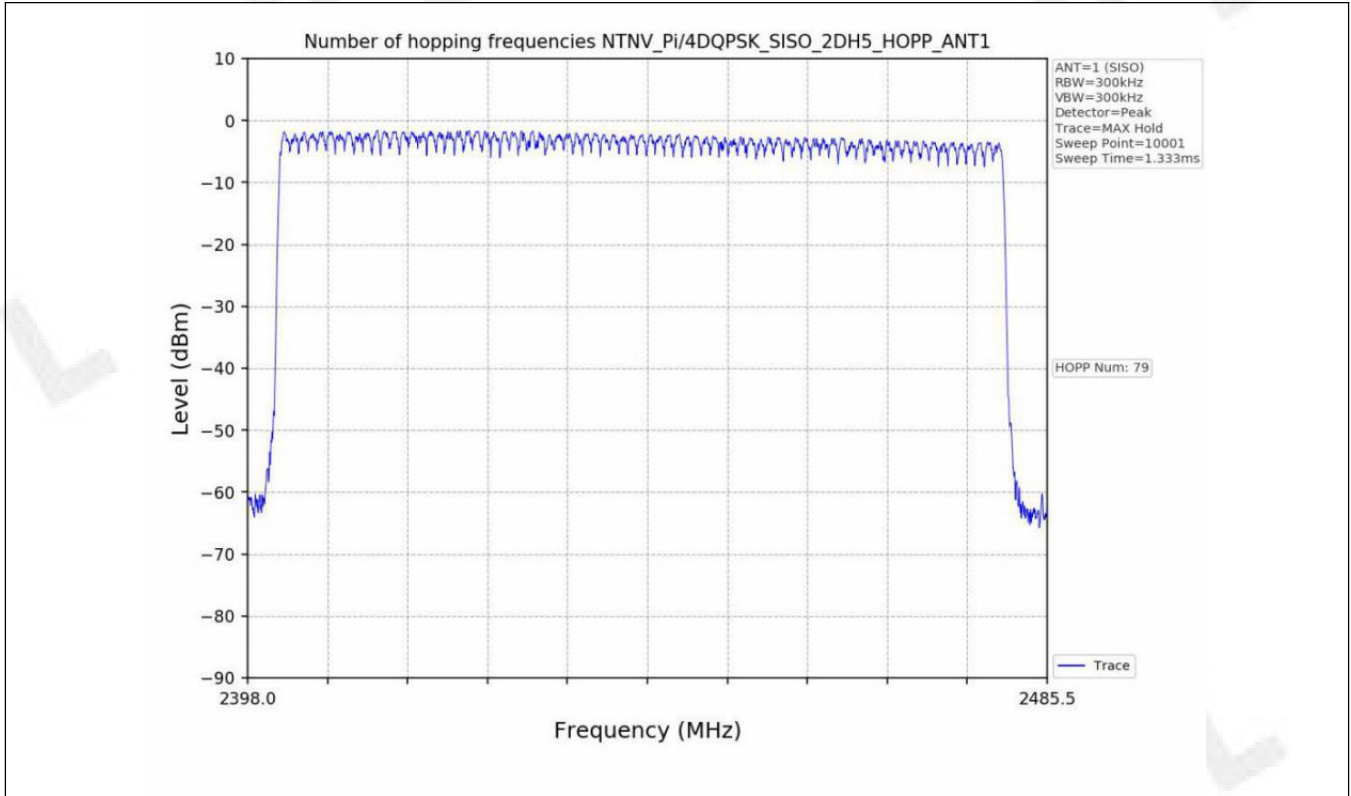
4. Number of hopping frequencies

4.1 Test Result

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

4.2 Test Graph



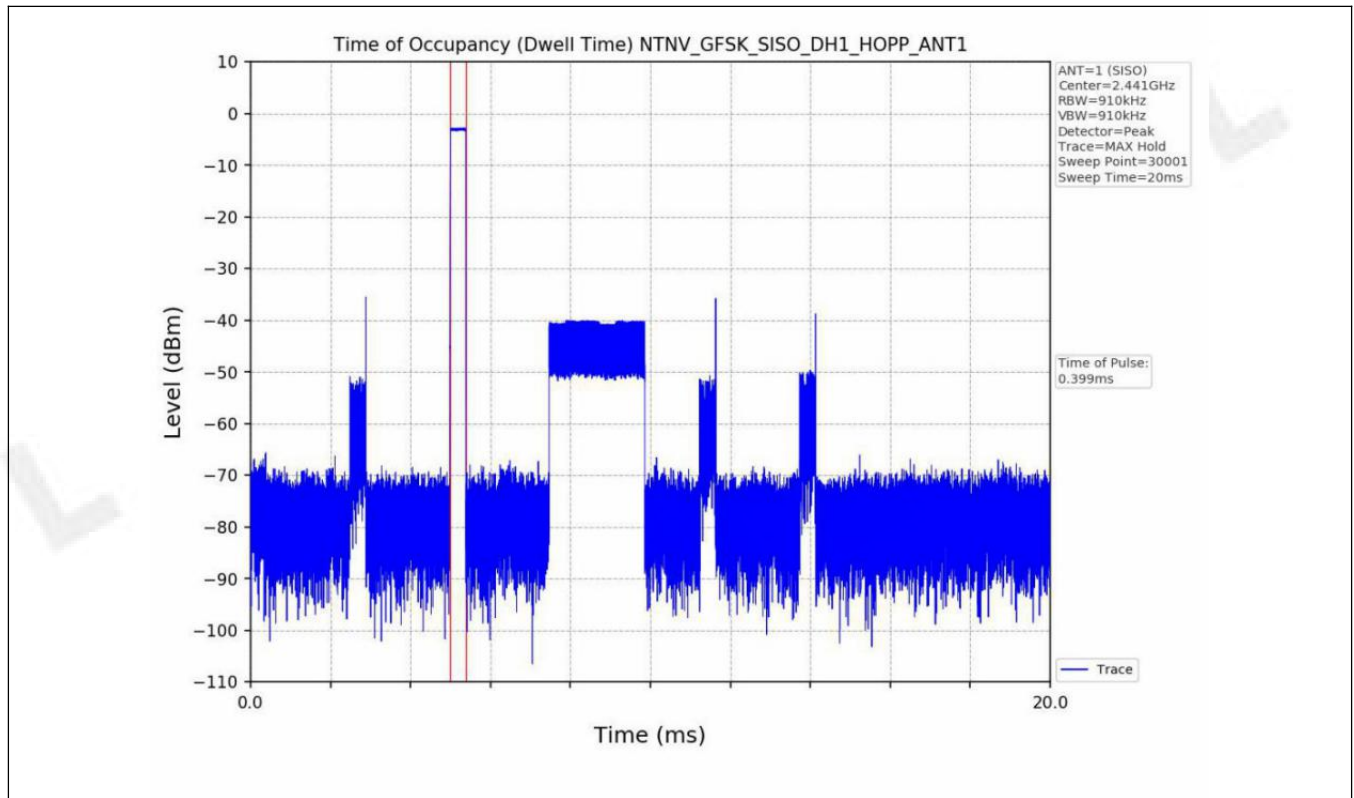


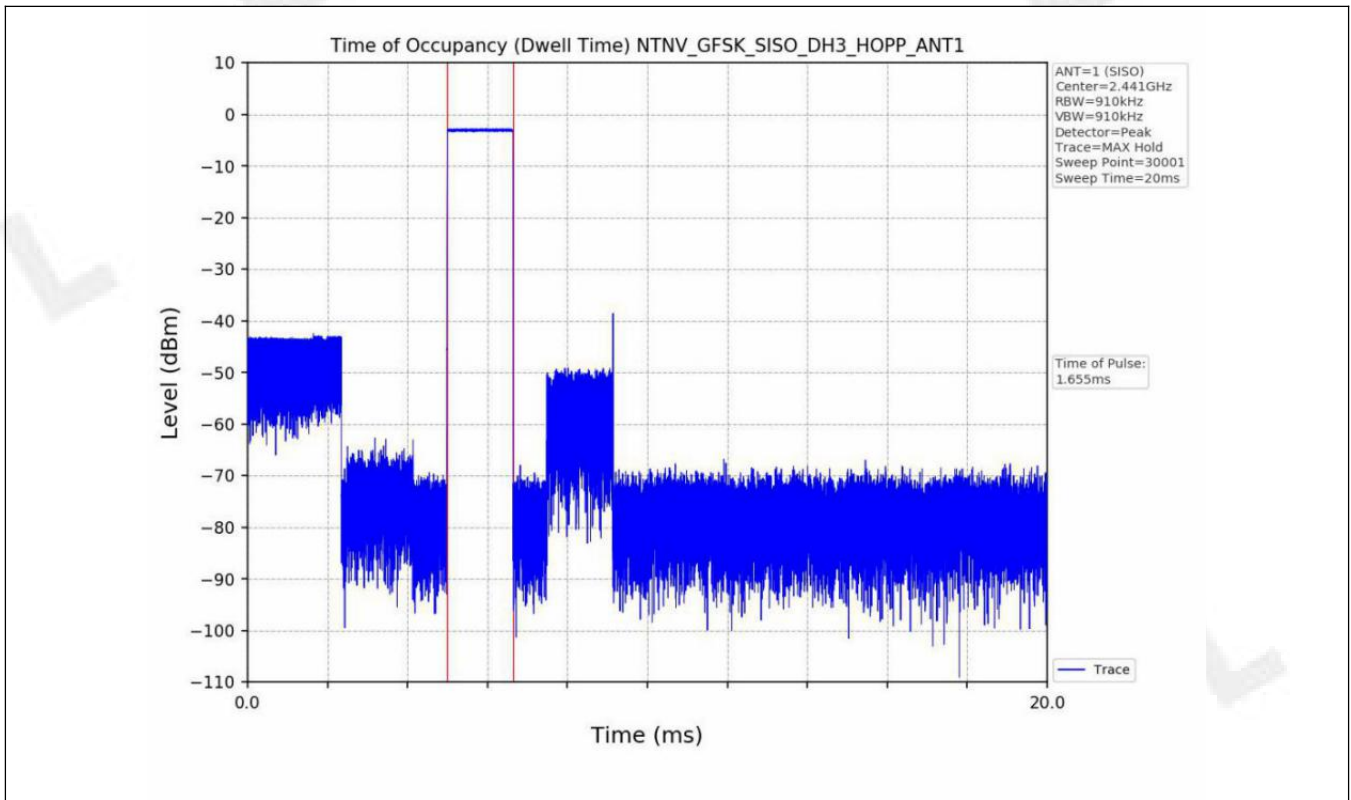
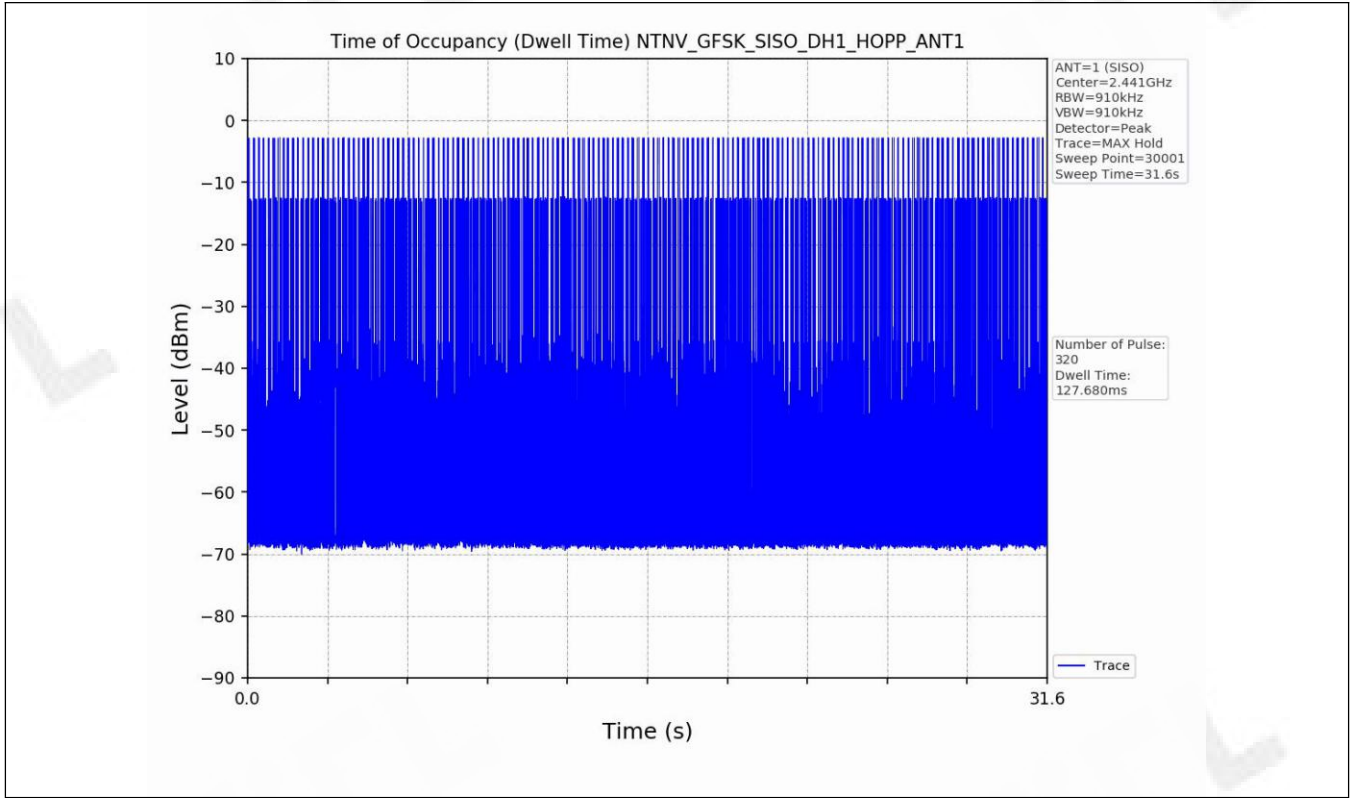
5. Time of Occupancy (Dwell Time)

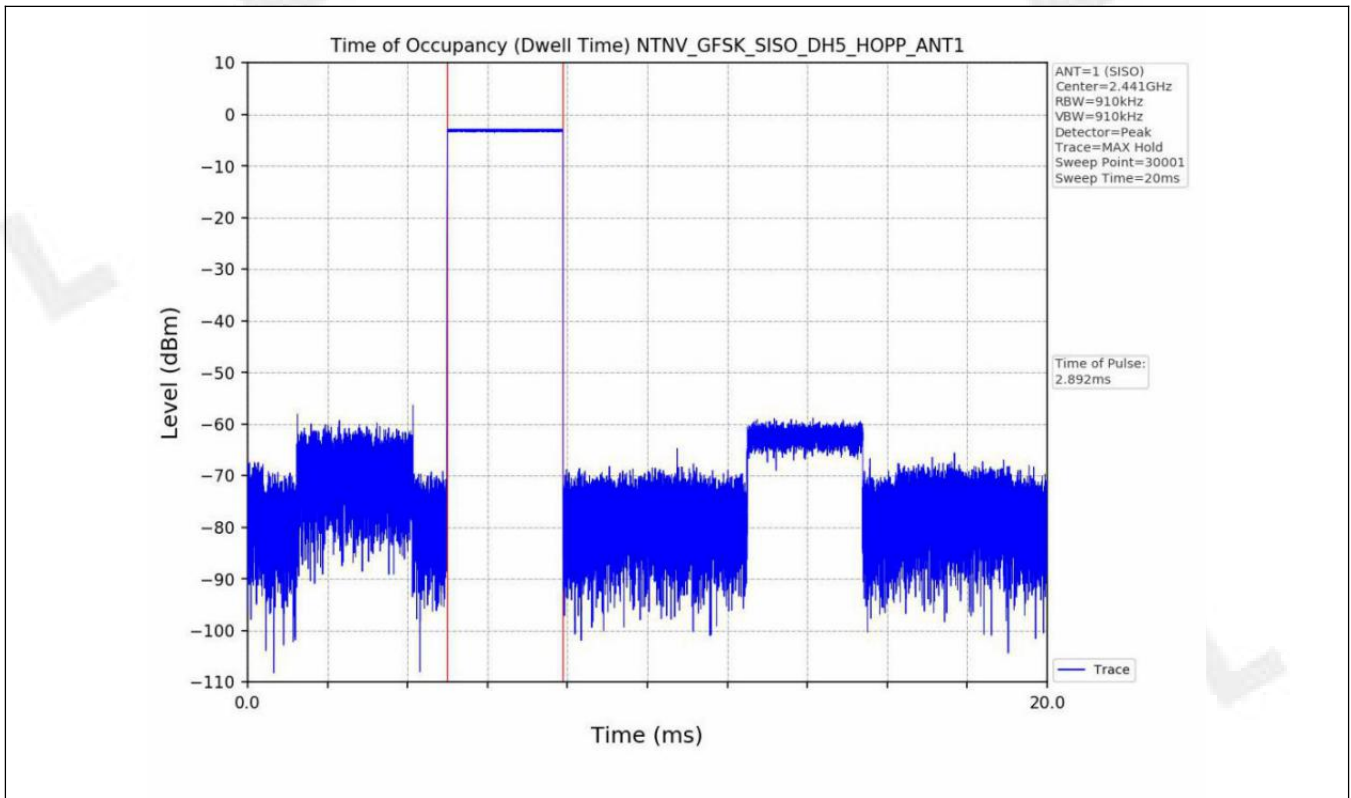
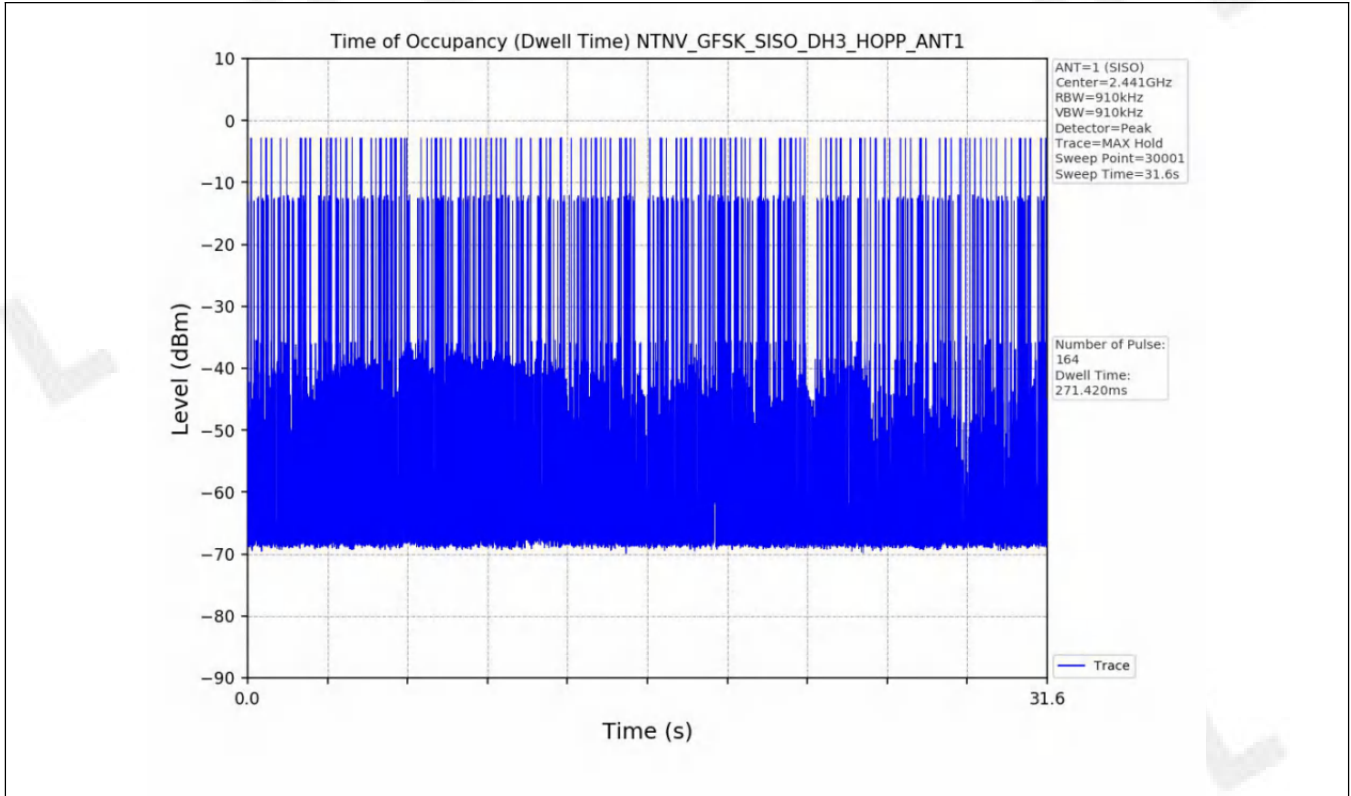
5.1 Test Result

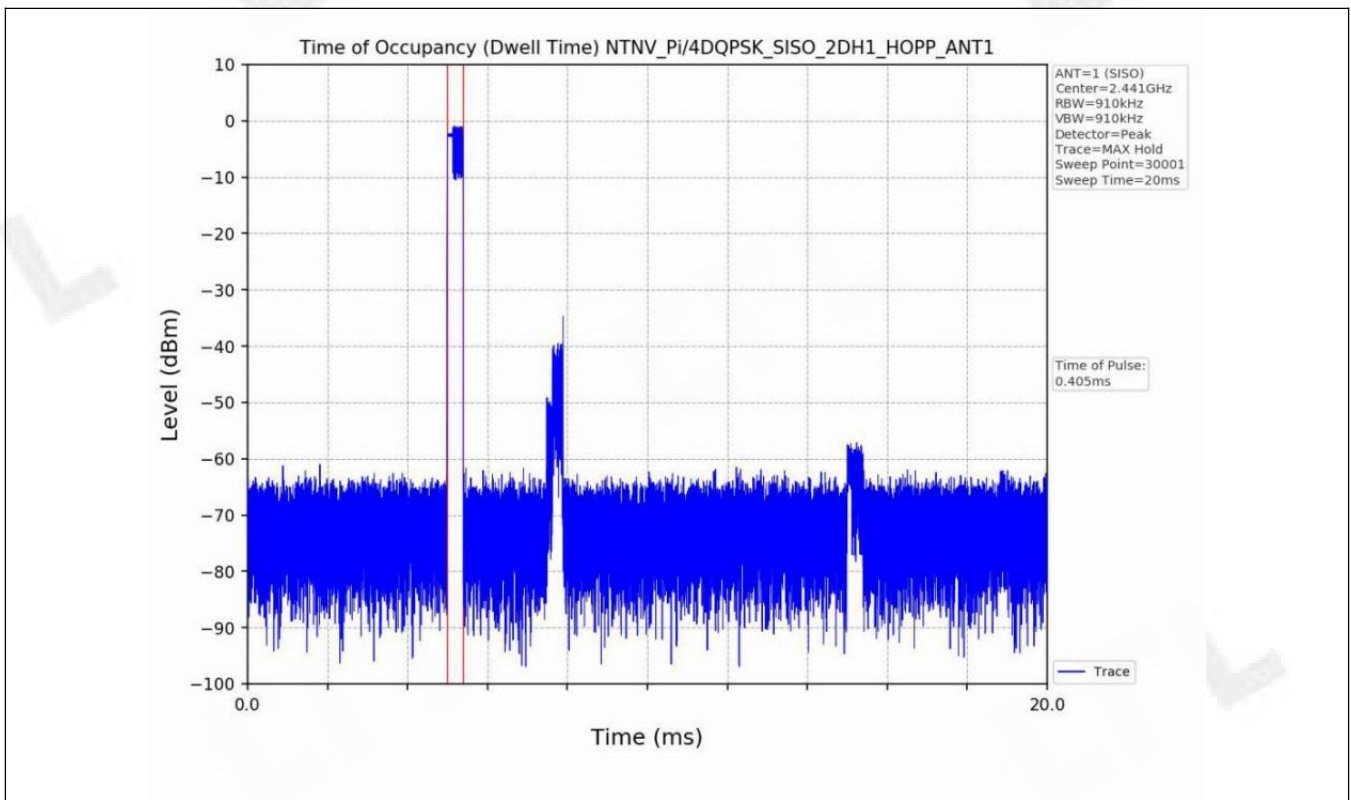
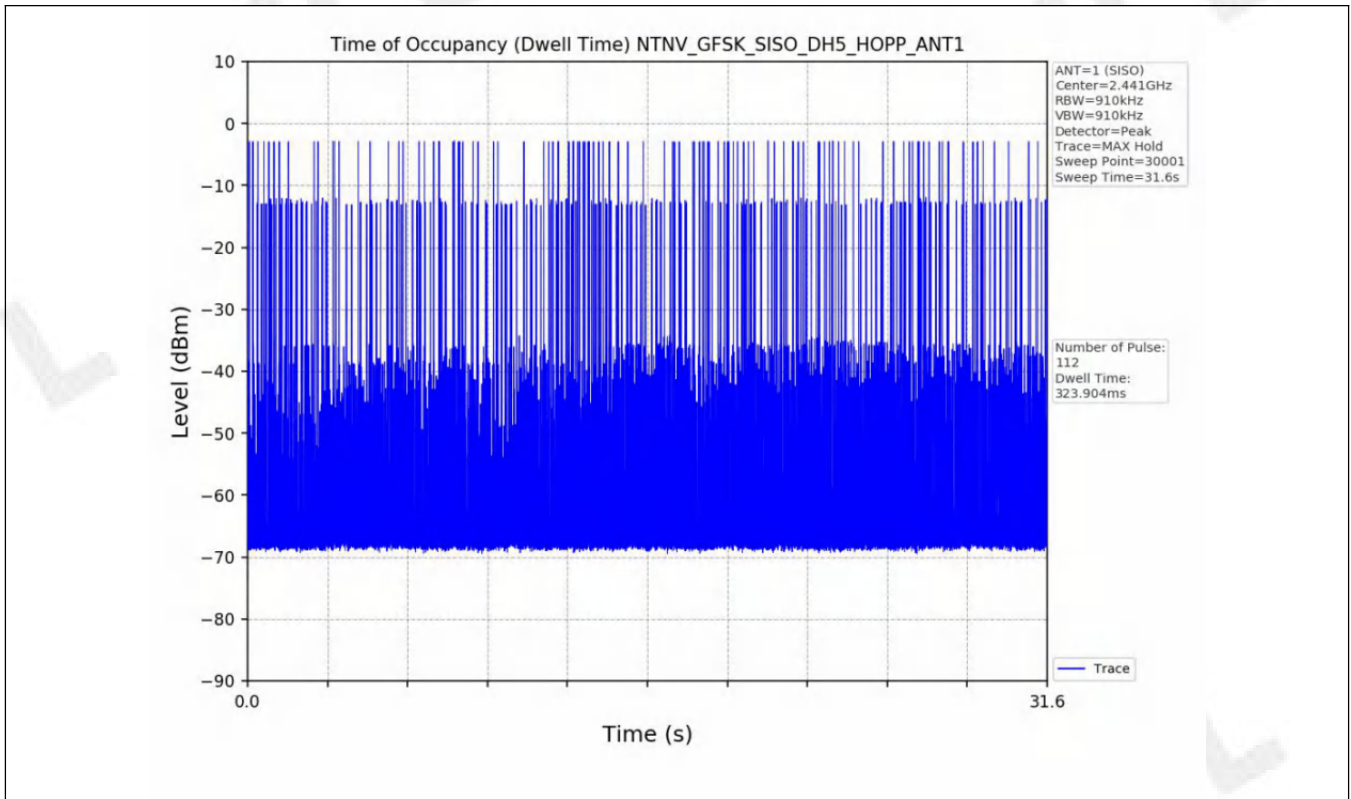
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.399	31.6	320	127.680	≤400	PASS
	DH3	SISO	1	1.655	31.6	164	271.420	≤400	PASS
	DH5	SISO	1	2.892	31.6	112	323.904	≤400	PASS
Pi/4DQPSK	2DH1	SISO	1	0.405	31.6	320	129.600	≤400	PASS
	2DH3	SISO	1	1.659	31.6	159	263.781	≤400	PASS
	2DH5	SISO	1	2.901	31.6	96	278.496	≤400	PASS
8DPSK	3DH1	SISO	1	0.407	31.6	321	130.647	≤400	PASS
	3DH3	SISO	1	1.659	31.6	172	285.348	≤400	PASS
	3DH5	SISO	1	2.911	31.6	100	291.100	≤400	PASS

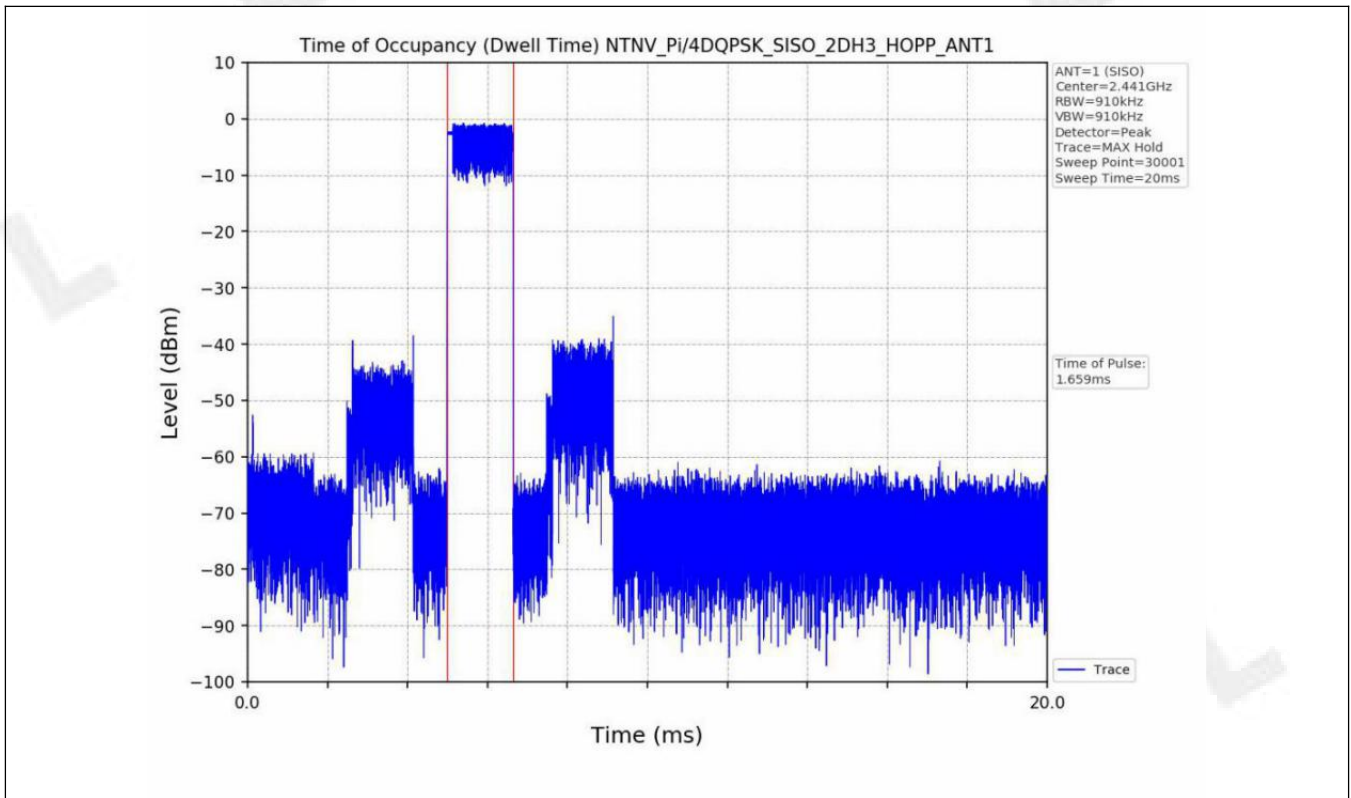
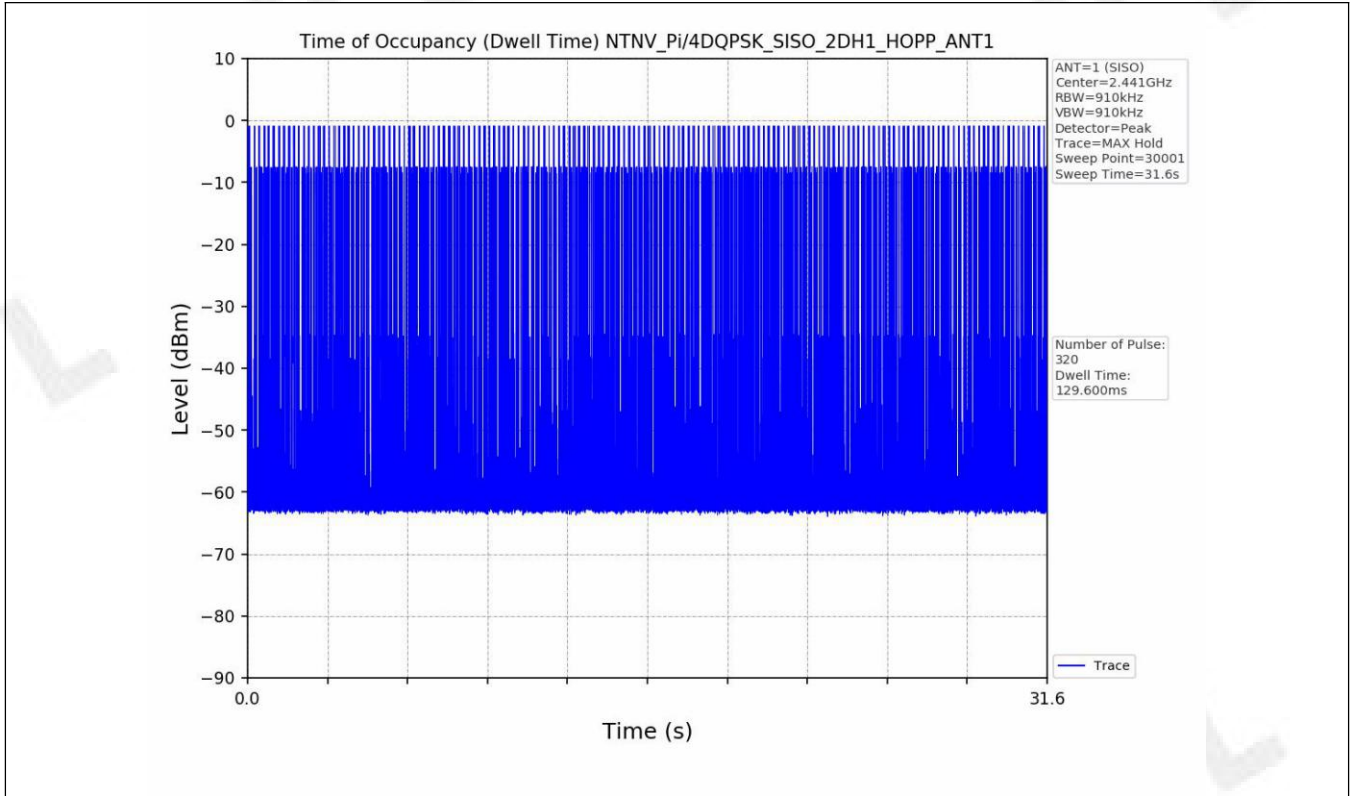
5.2 Test Graph

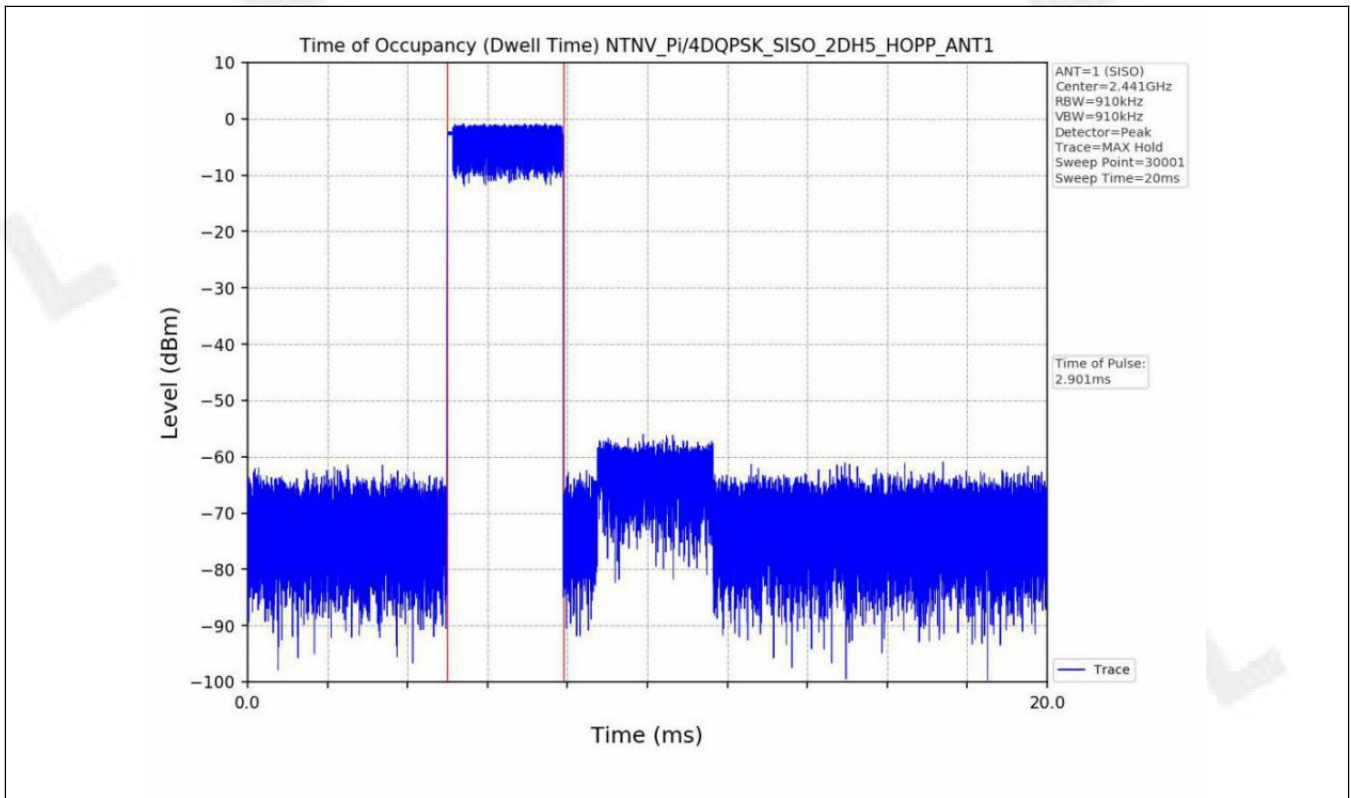
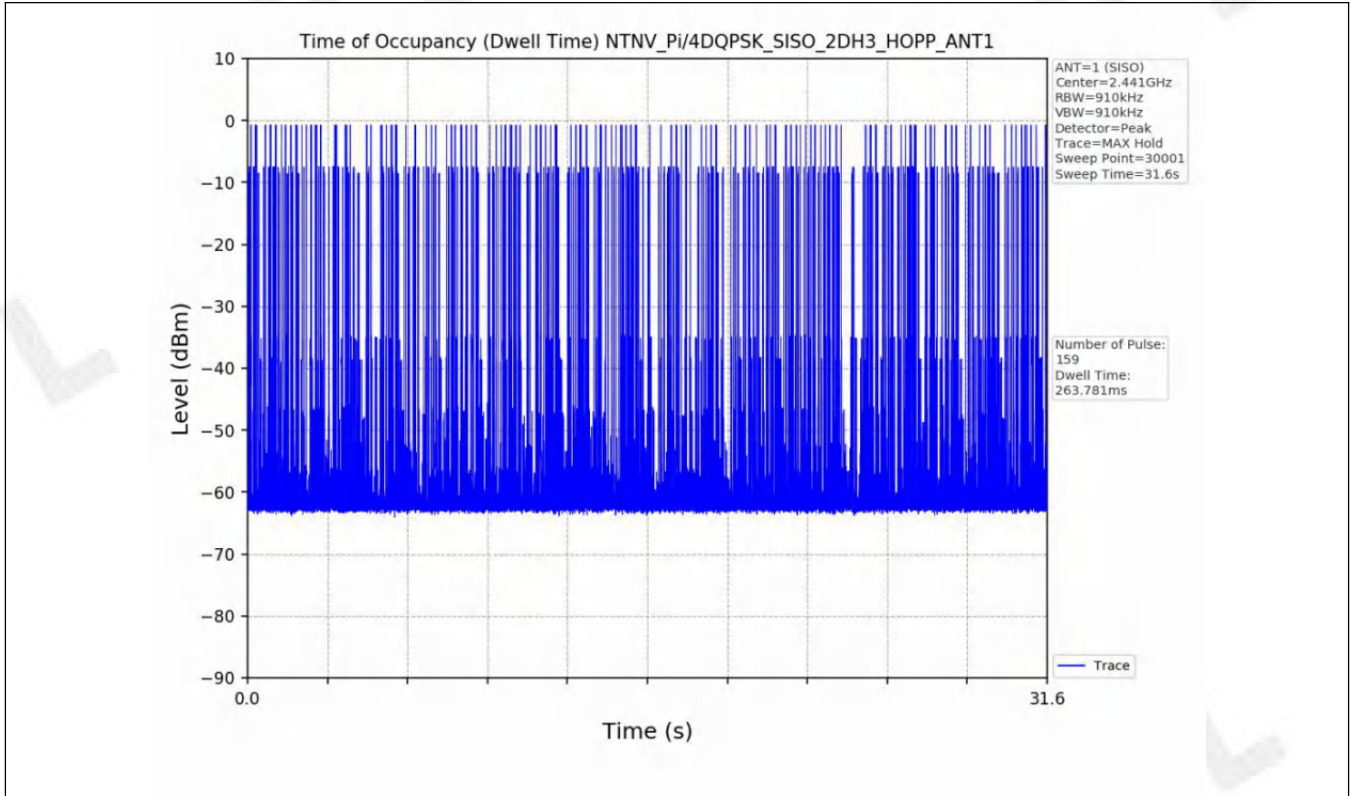


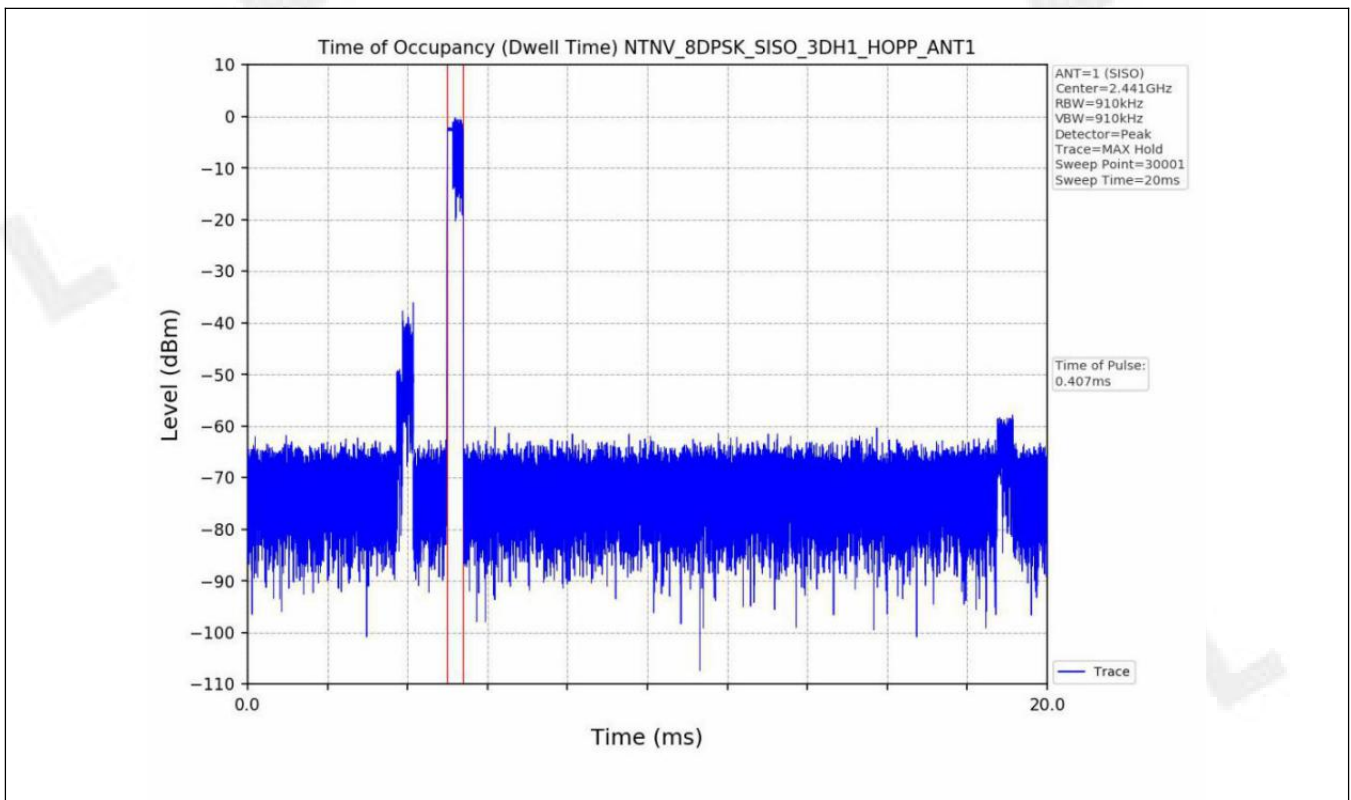
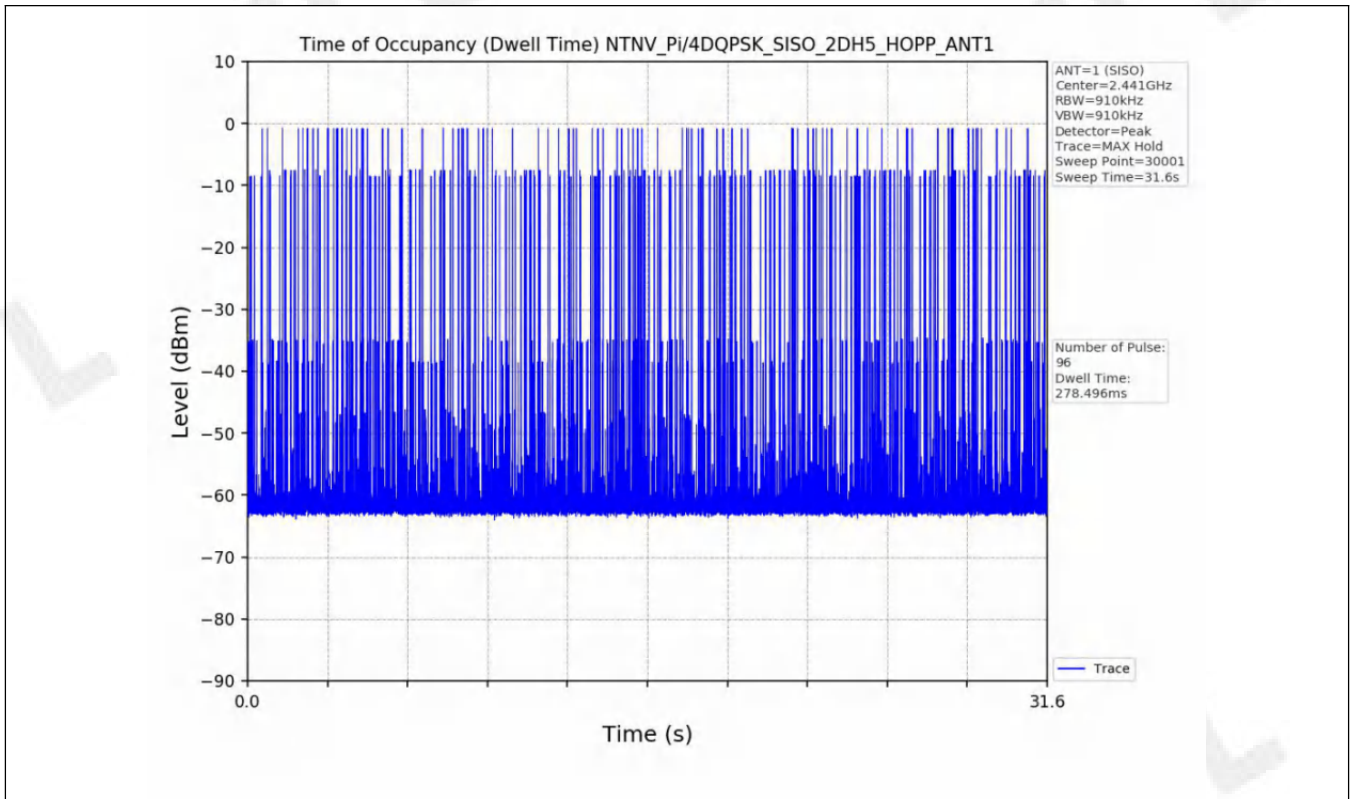


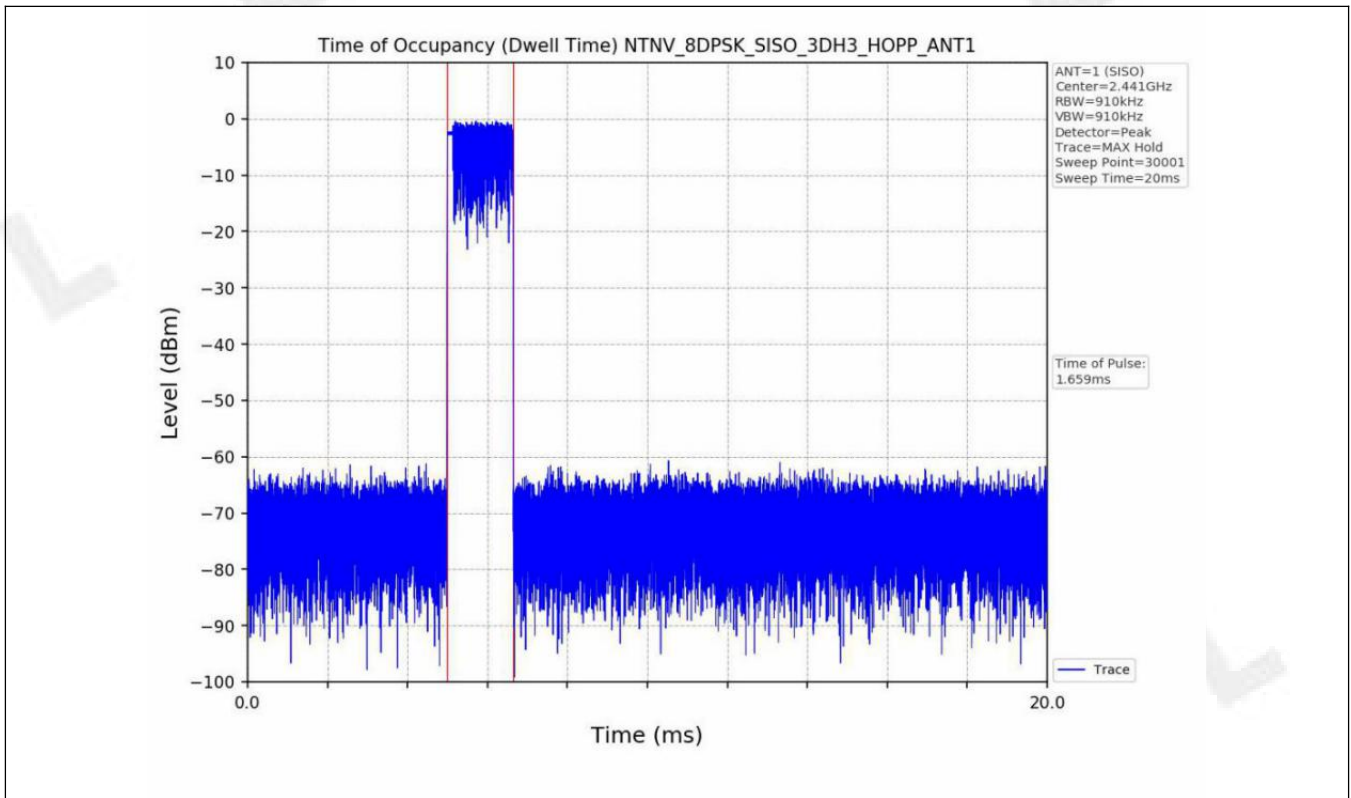
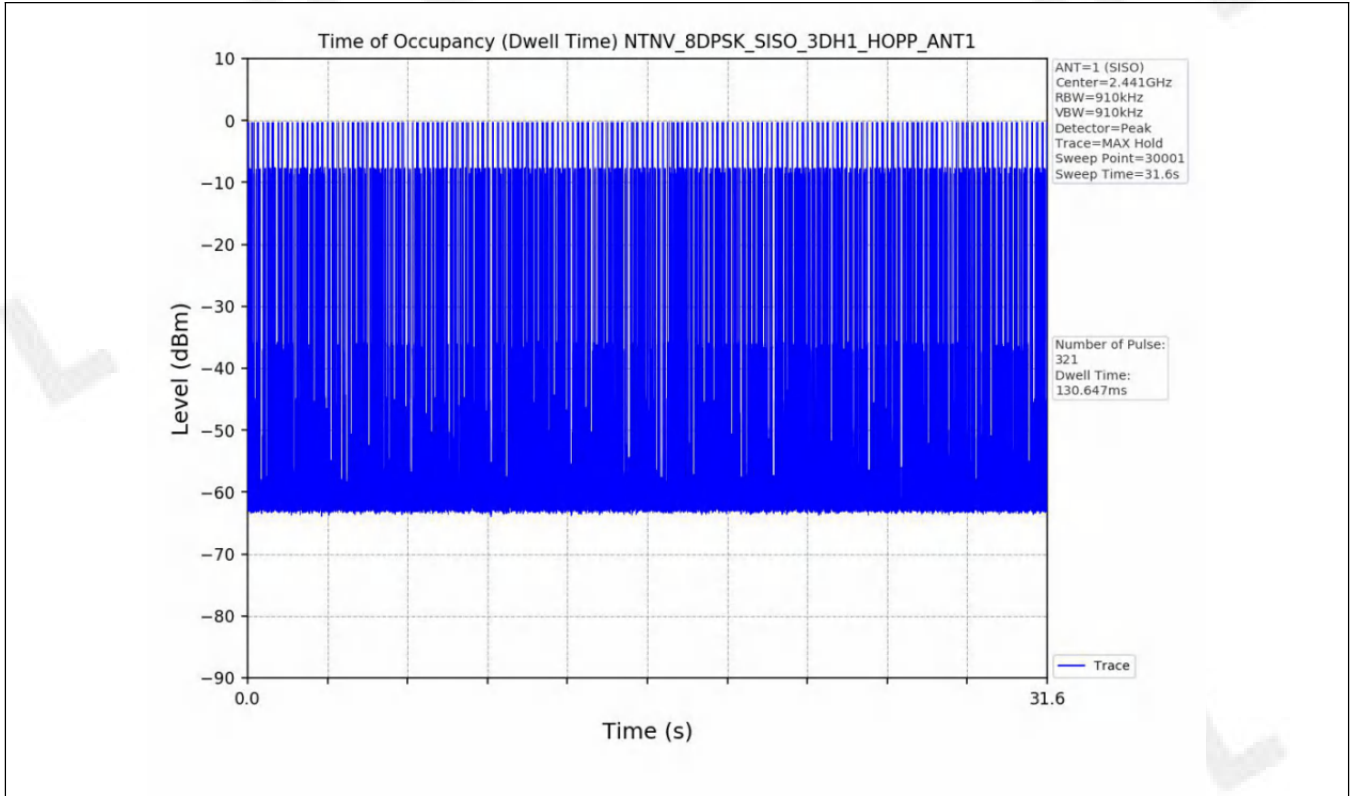


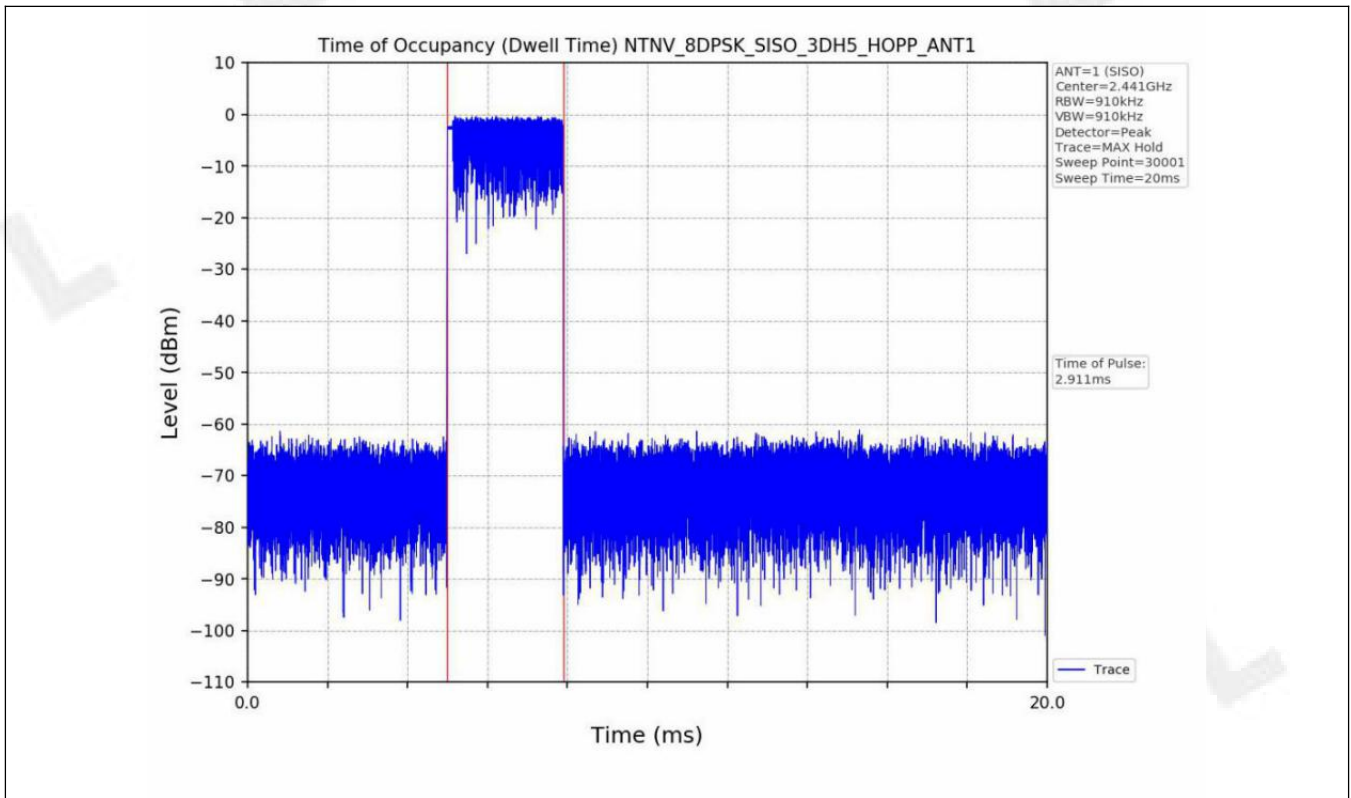
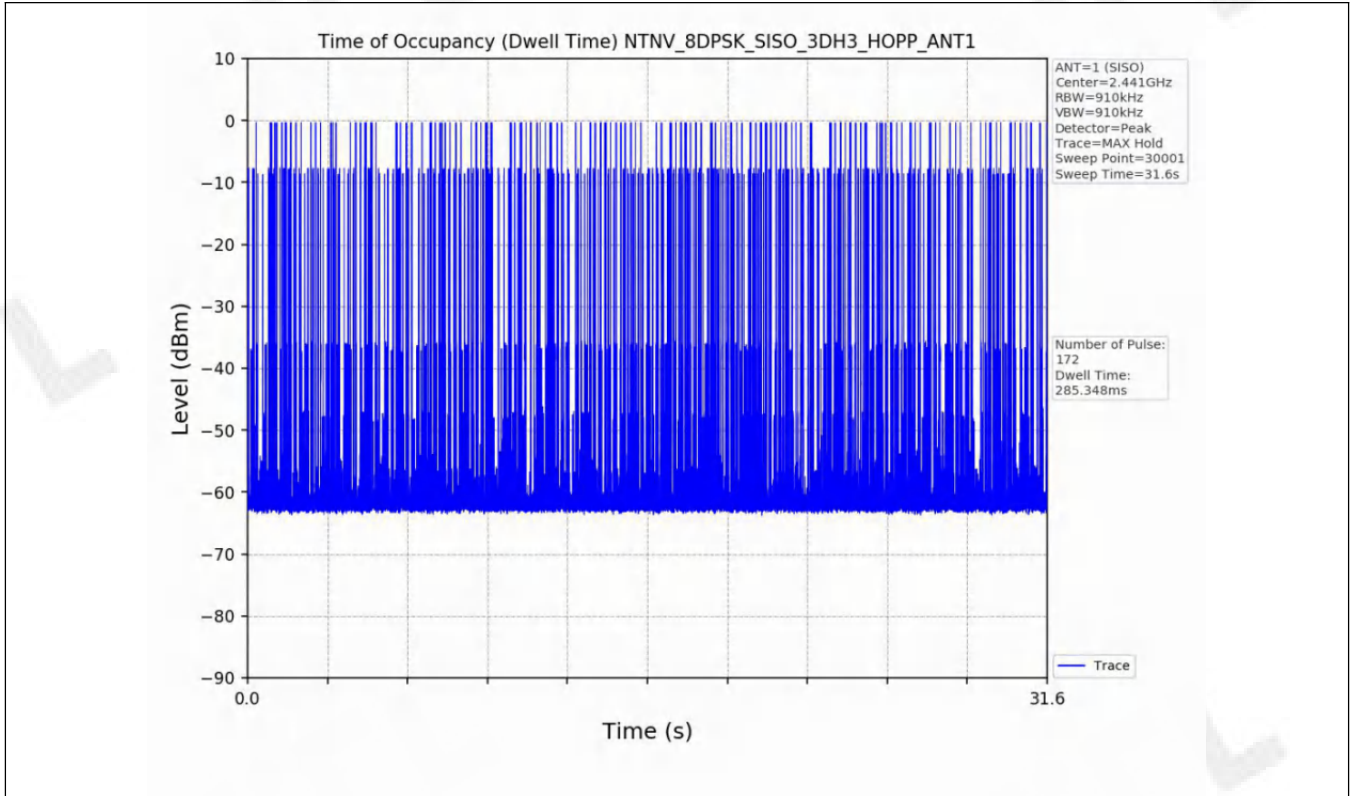


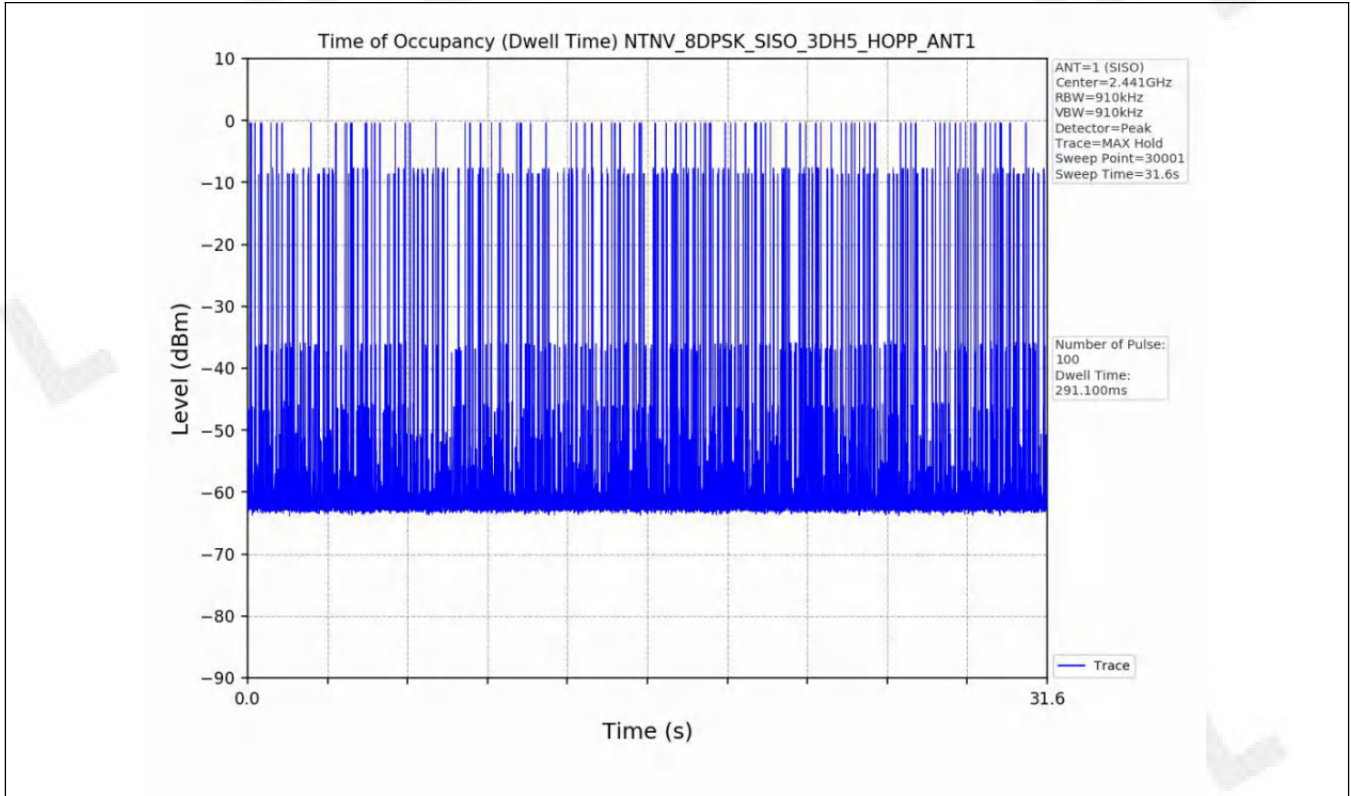












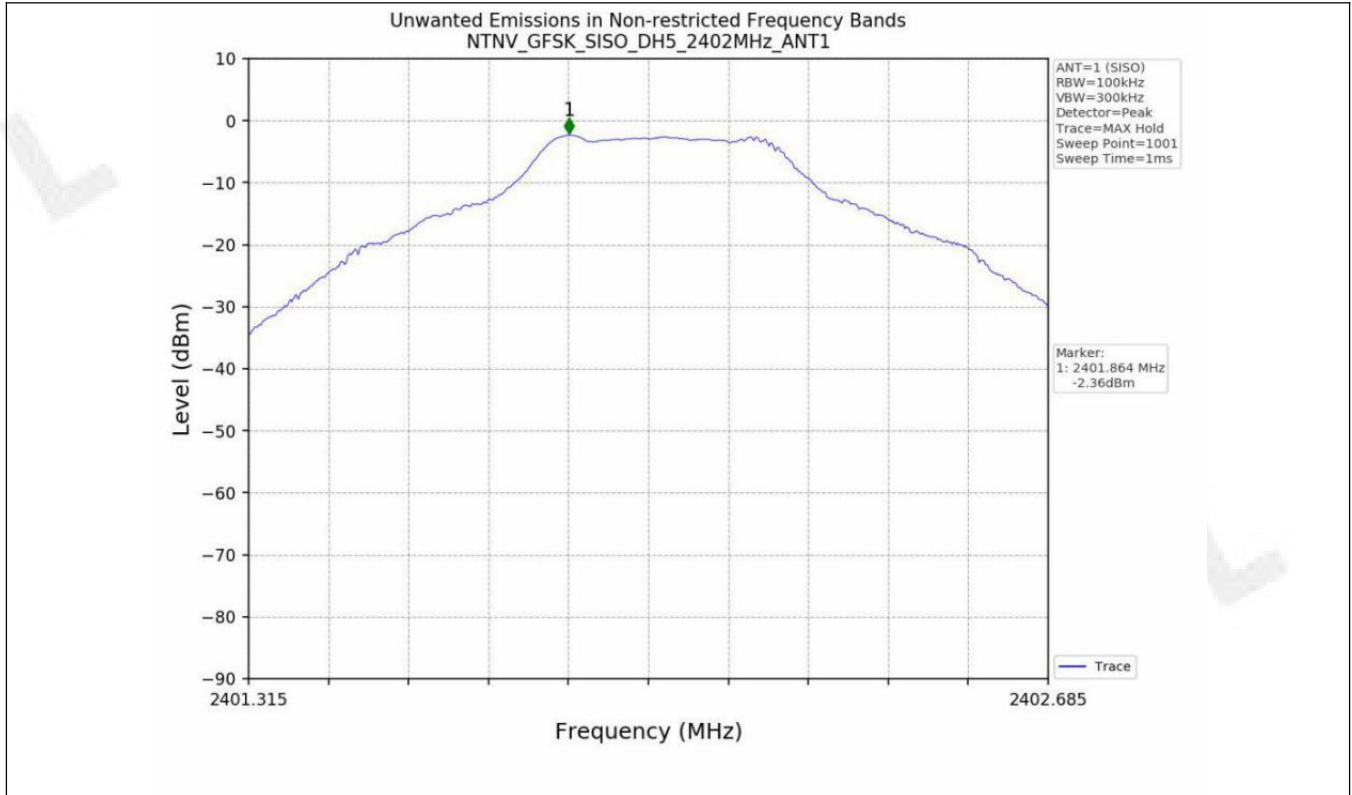
6. Unwanted Emissions in Non-restricted Frequency Bands

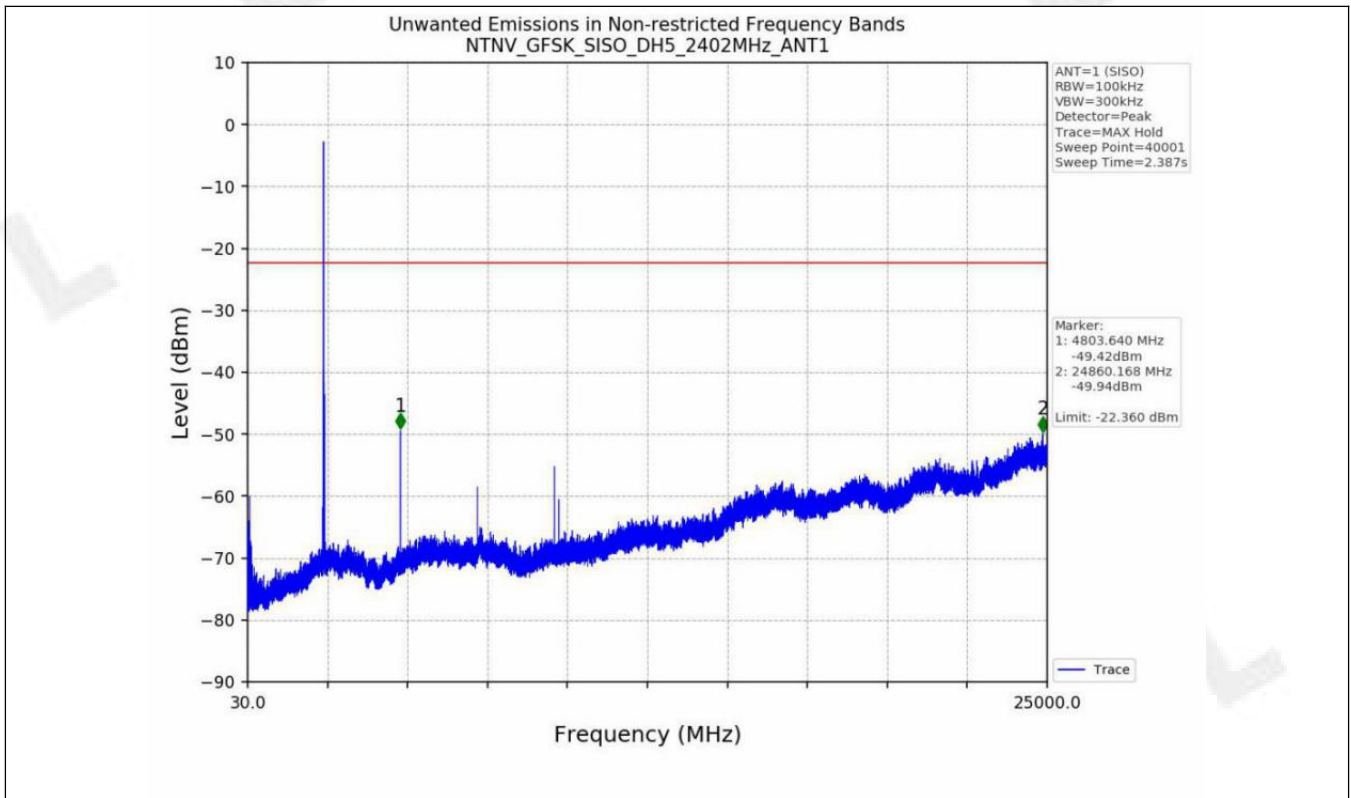
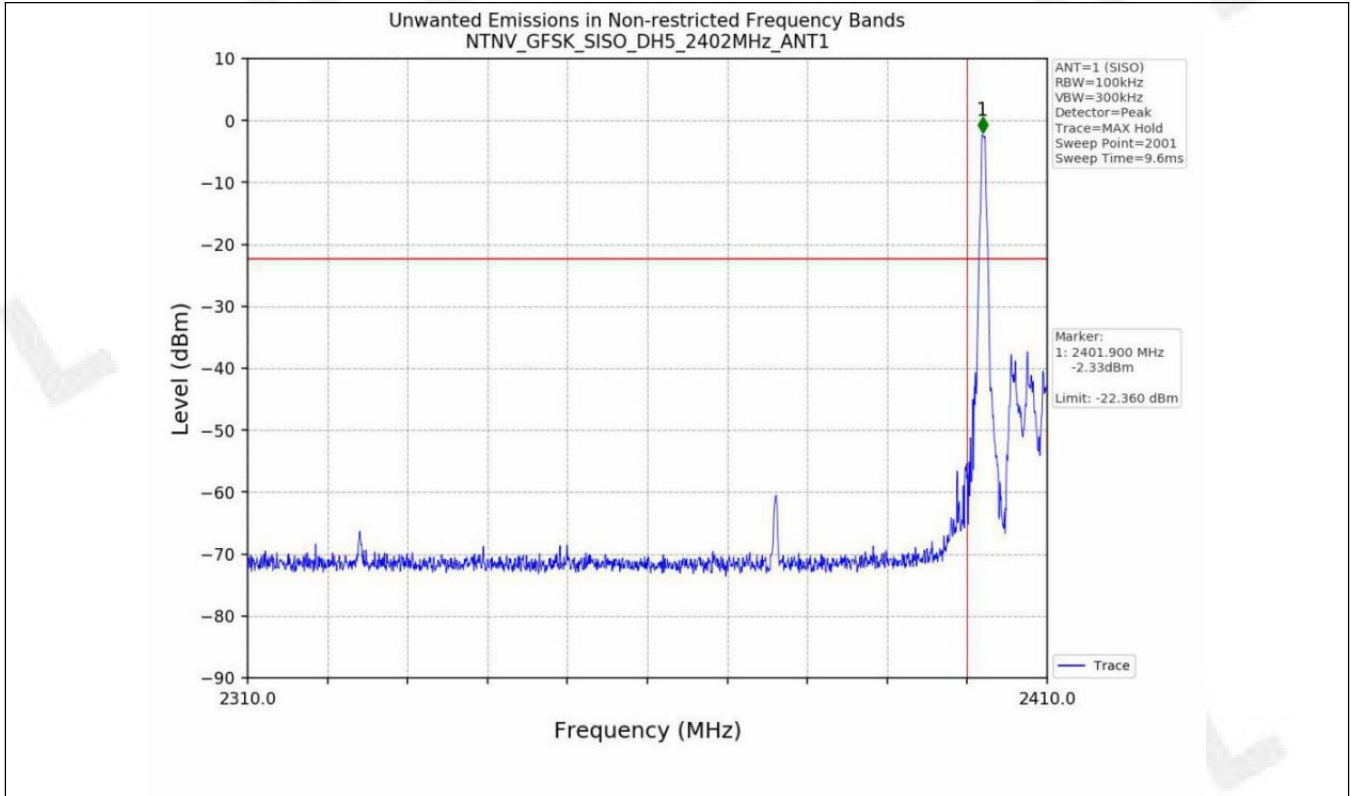
6.1 Test Result

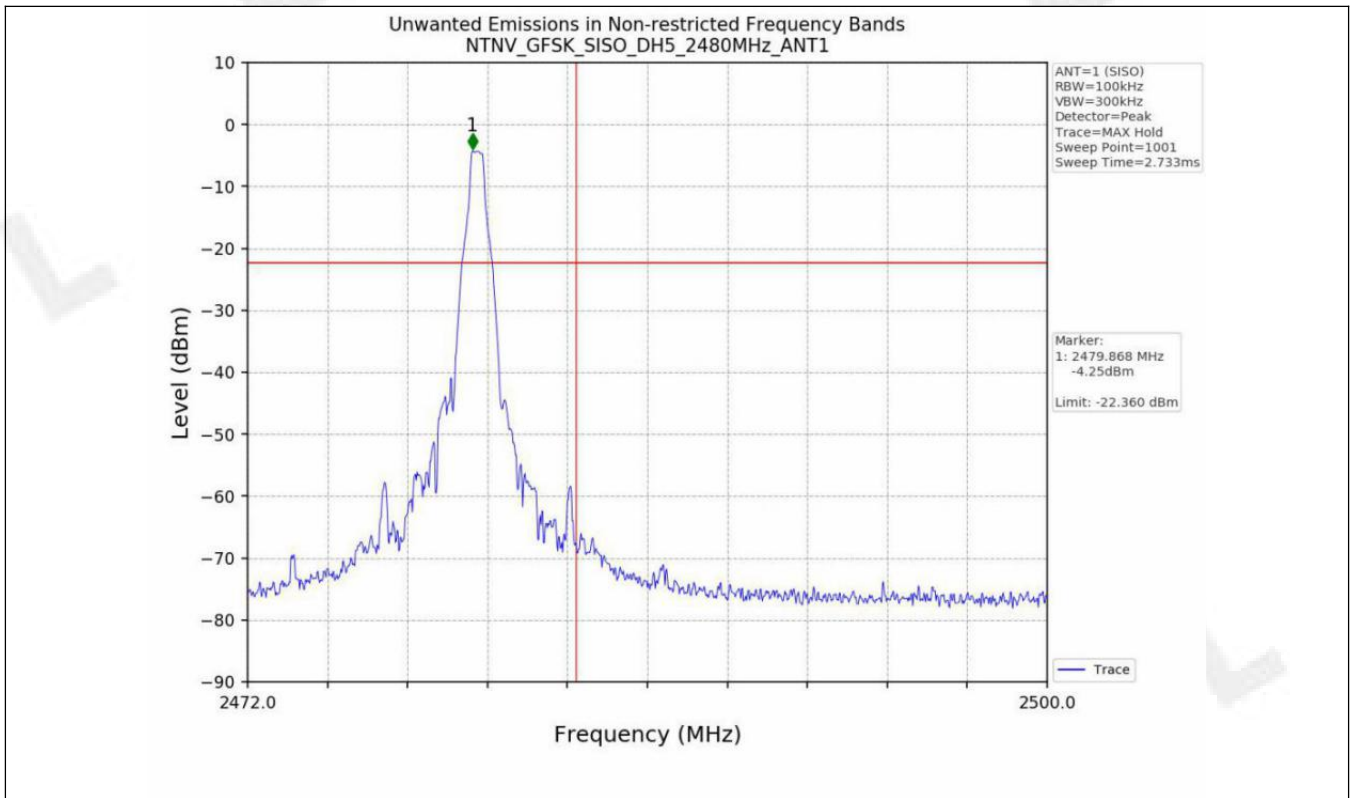
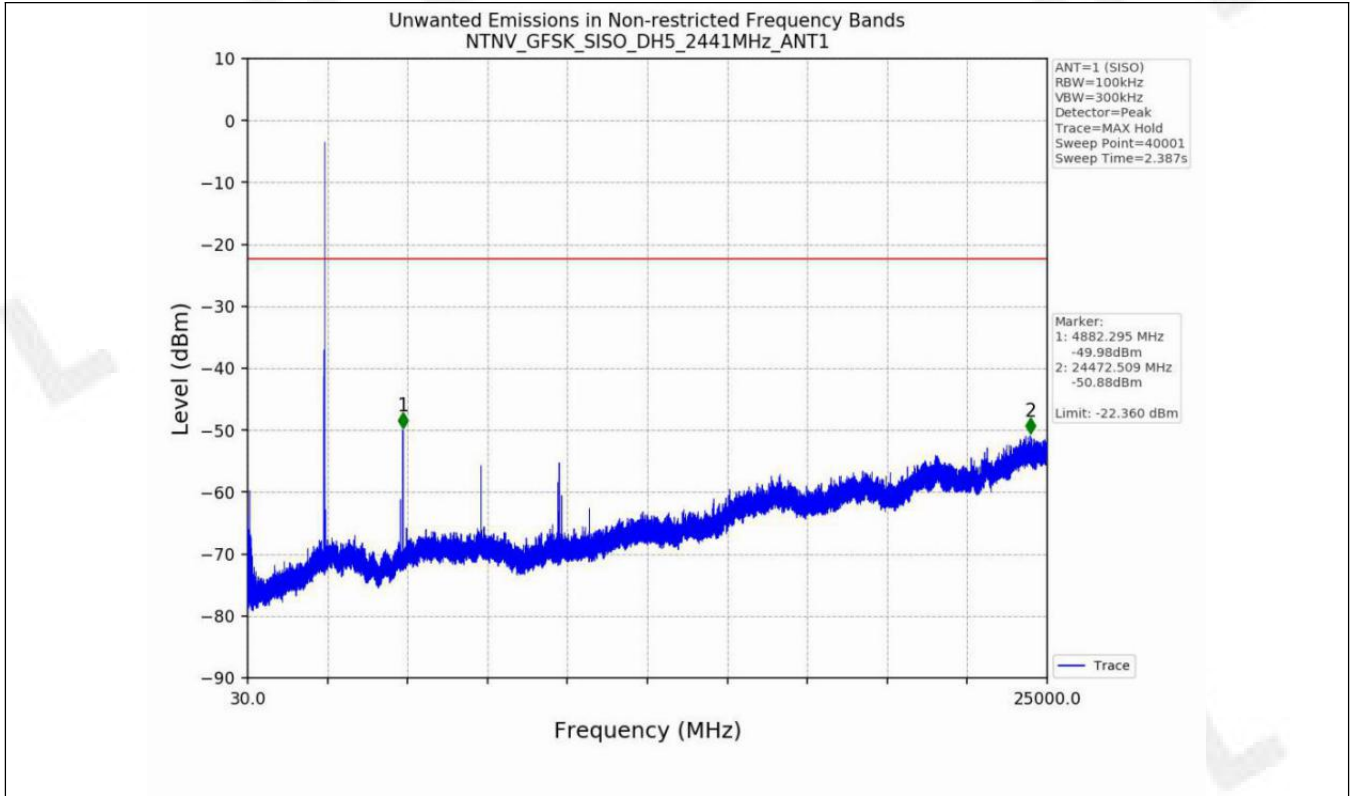
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-22.36	PASS
	2441	SISO	1	Refer to test graph	-22.36	PASS
	2480	SISO	1	Refer to test graph	-22.36	PASS
	Hopping	SISO	1	Refer to test graph	-22.36	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-22.30	PASS
	2441	SISO	1	Refer to test graph	-22.30	PASS
	2480	SISO	1	Refer to test graph	-22.30	PASS
	Hopping	SISO	1	Refer to test graph	-22.30	PASS
8DPSK	2402	SISO	1	Refer to test graph	-21.85	PASS
	2441	SISO	1	Refer to test graph	-21.85	PASS
	2480	SISO	1	Refer to test graph	-21.85	PASS

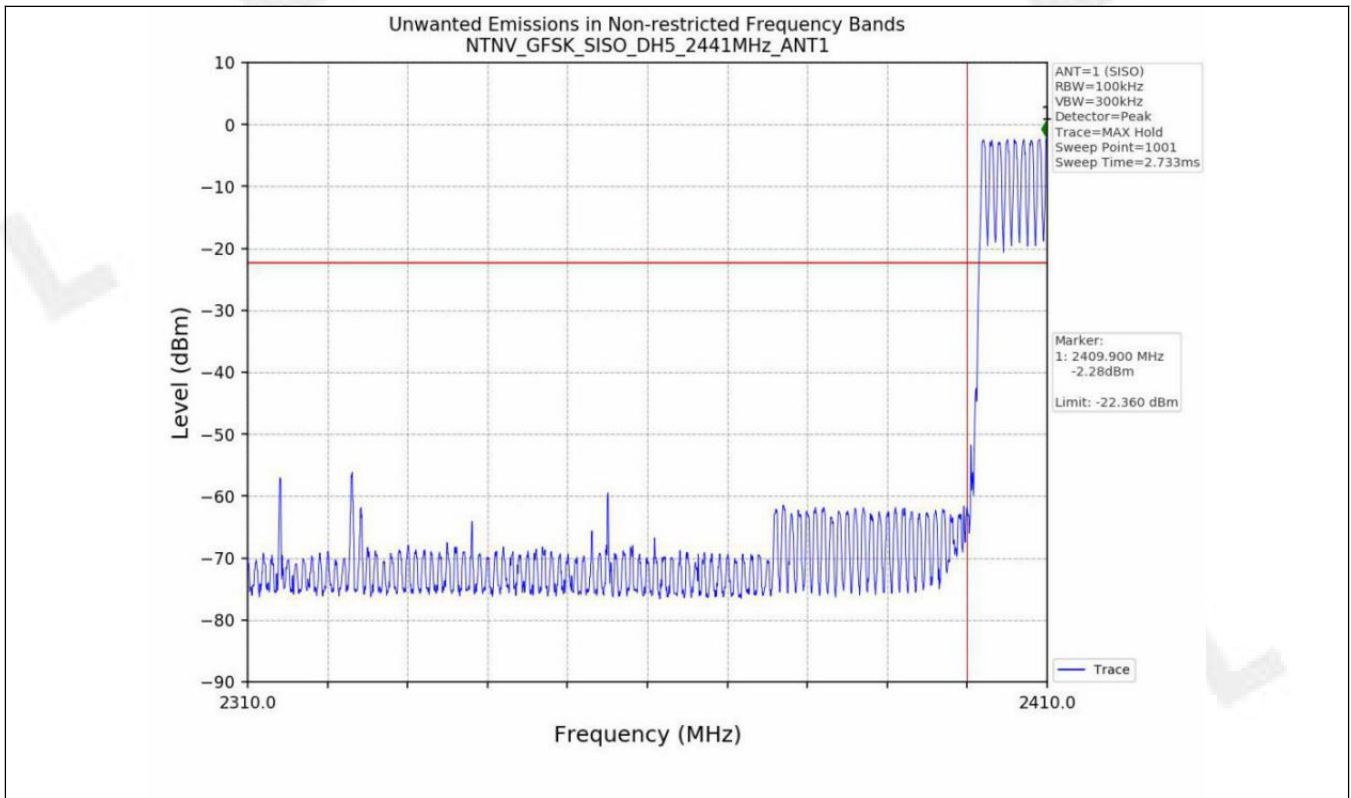
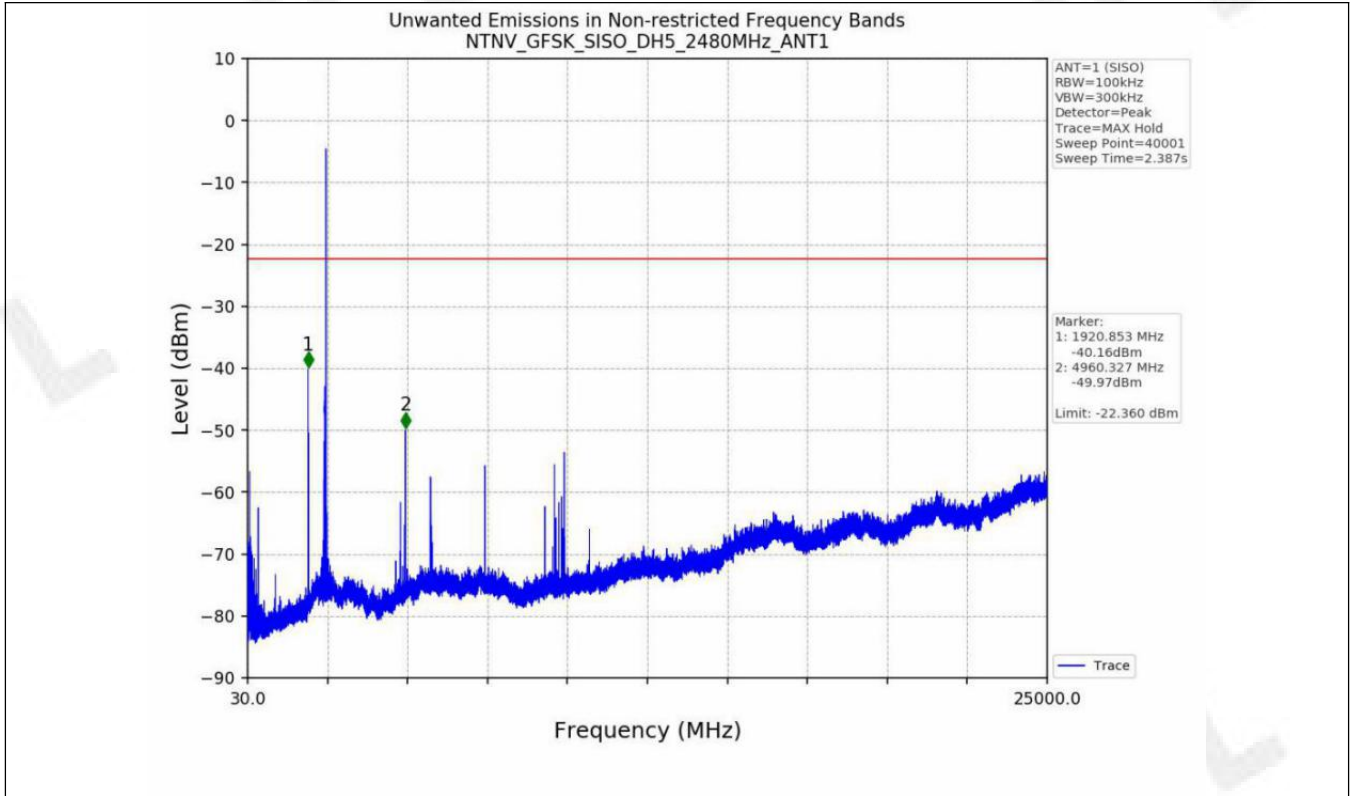
	Hopping	SISO	1	Refer to test graph	-21.85	PASS
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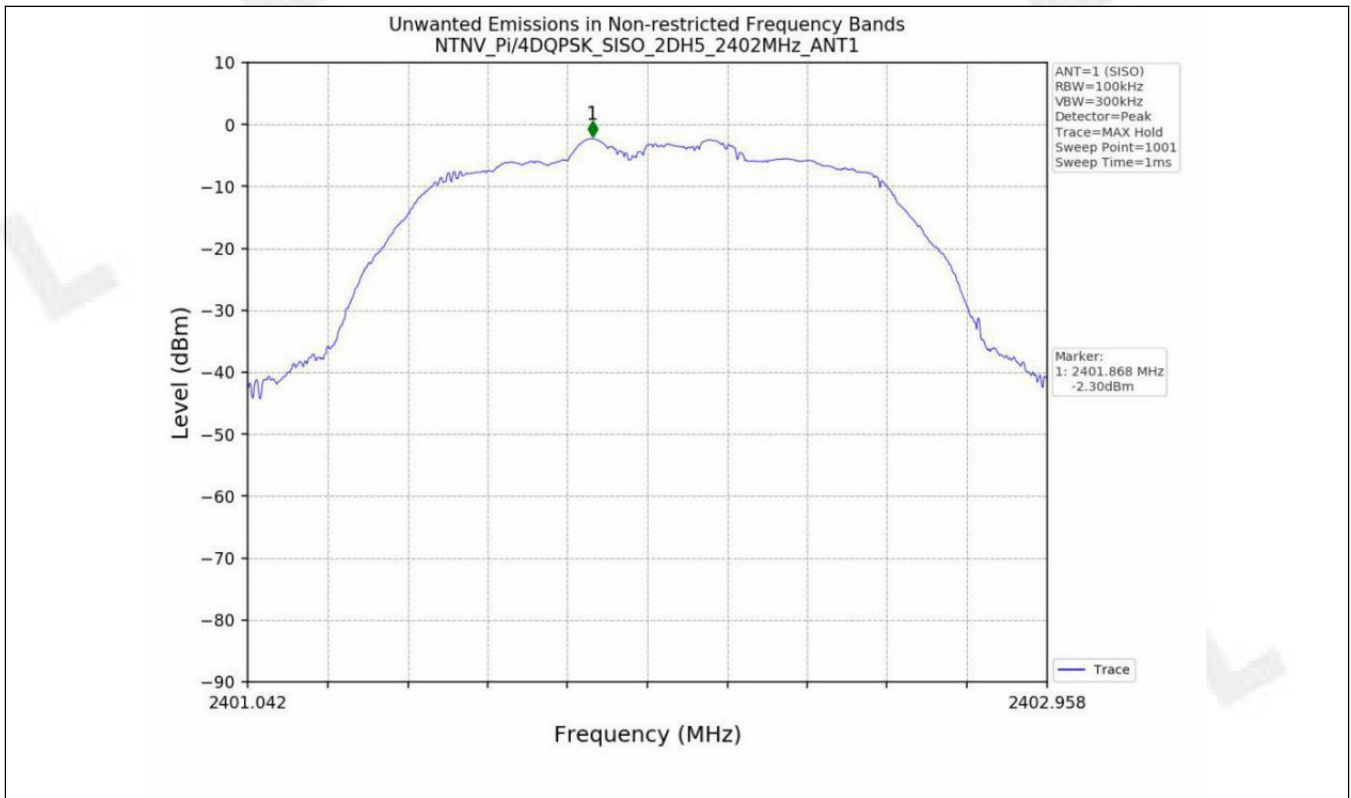
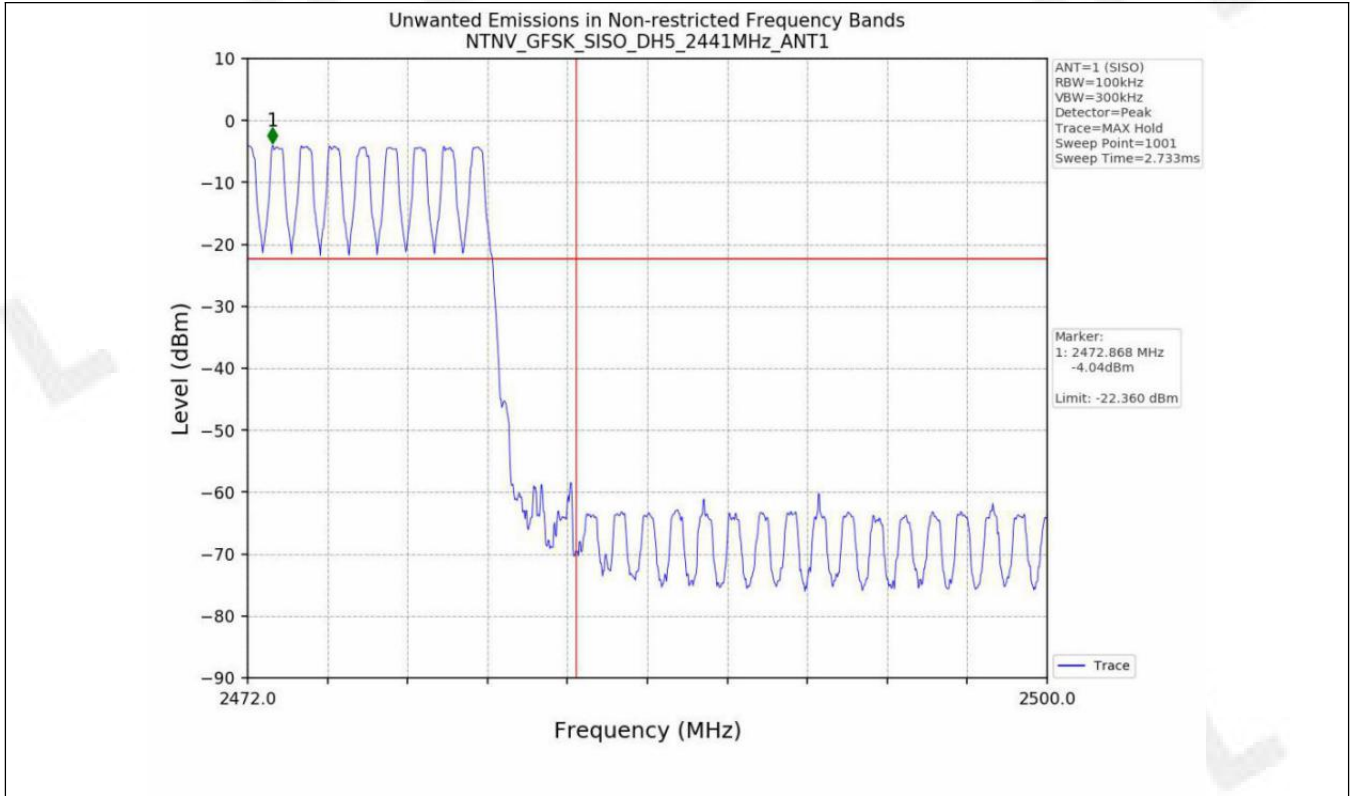
6.2 Test Graph

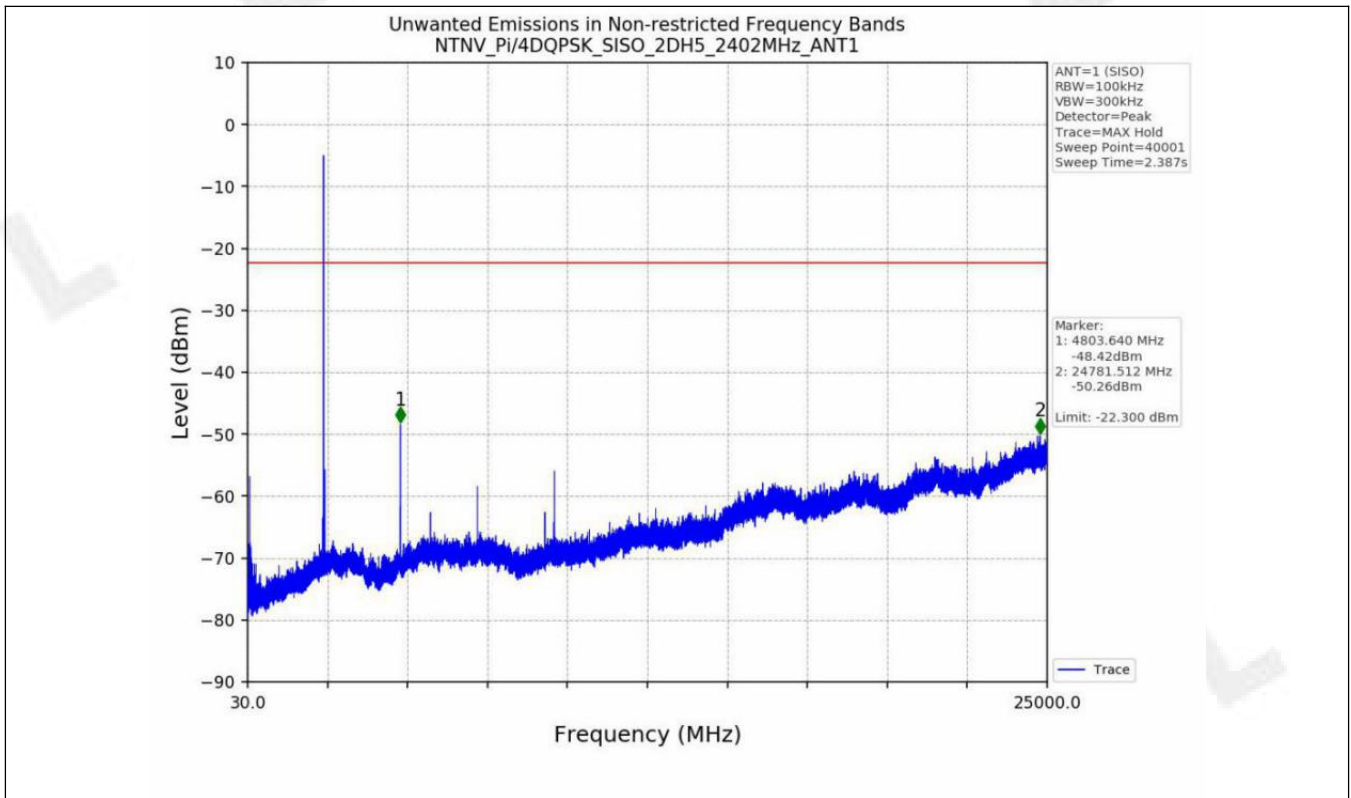
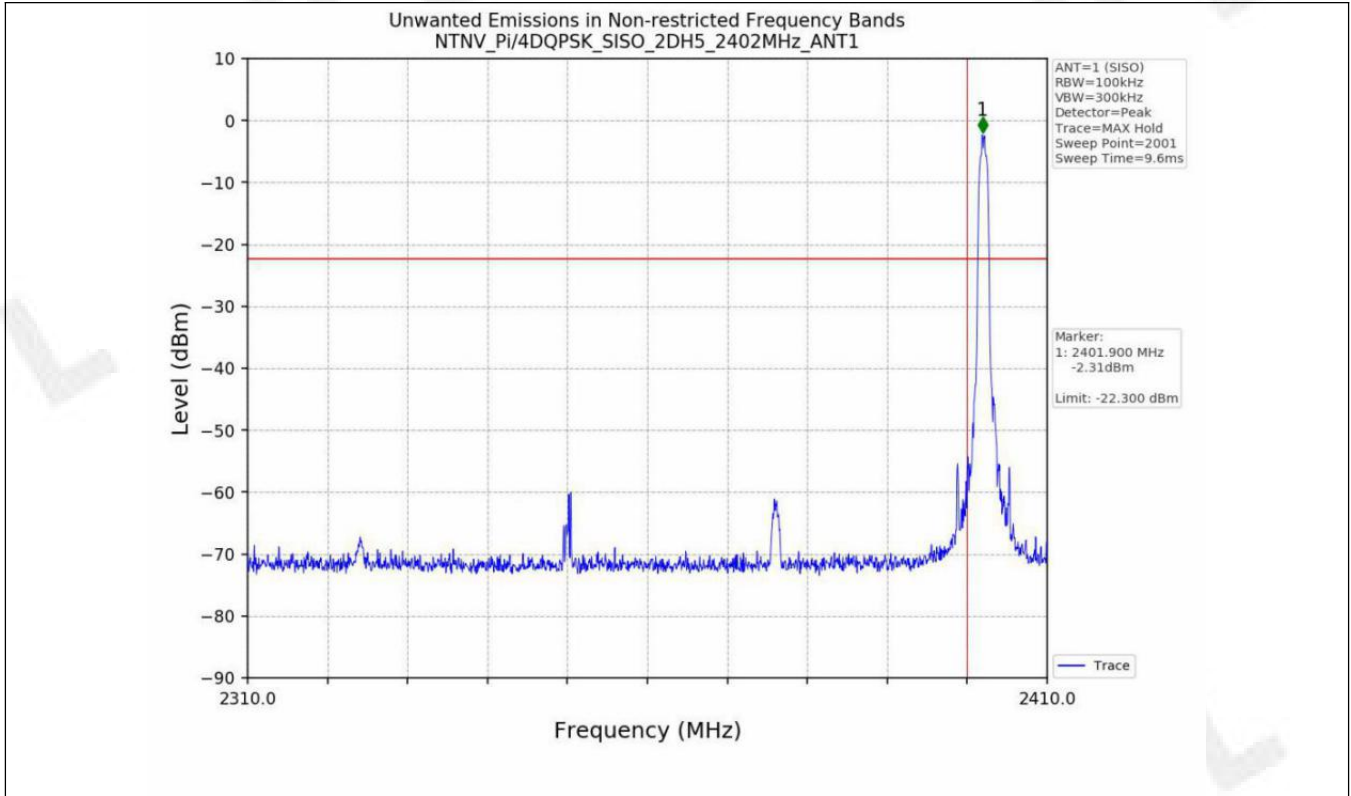


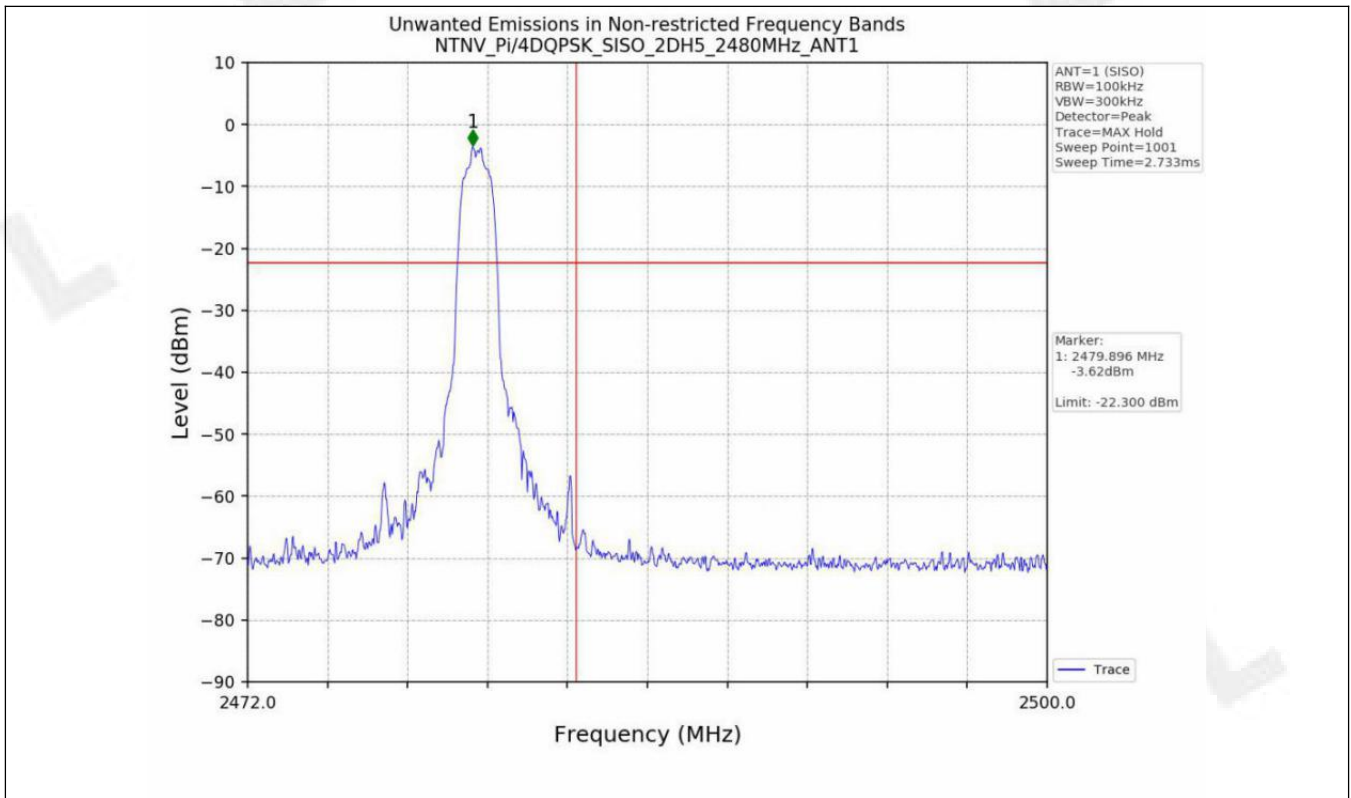
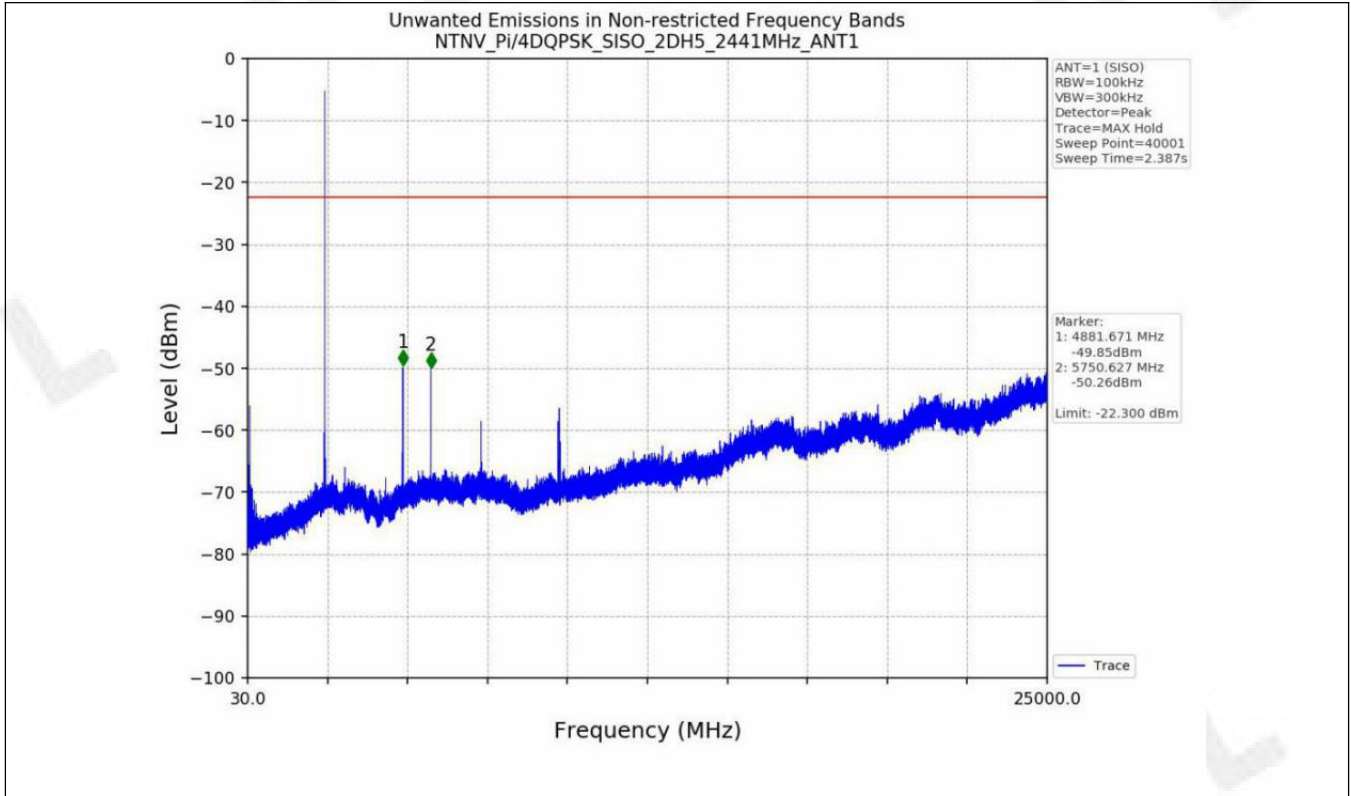


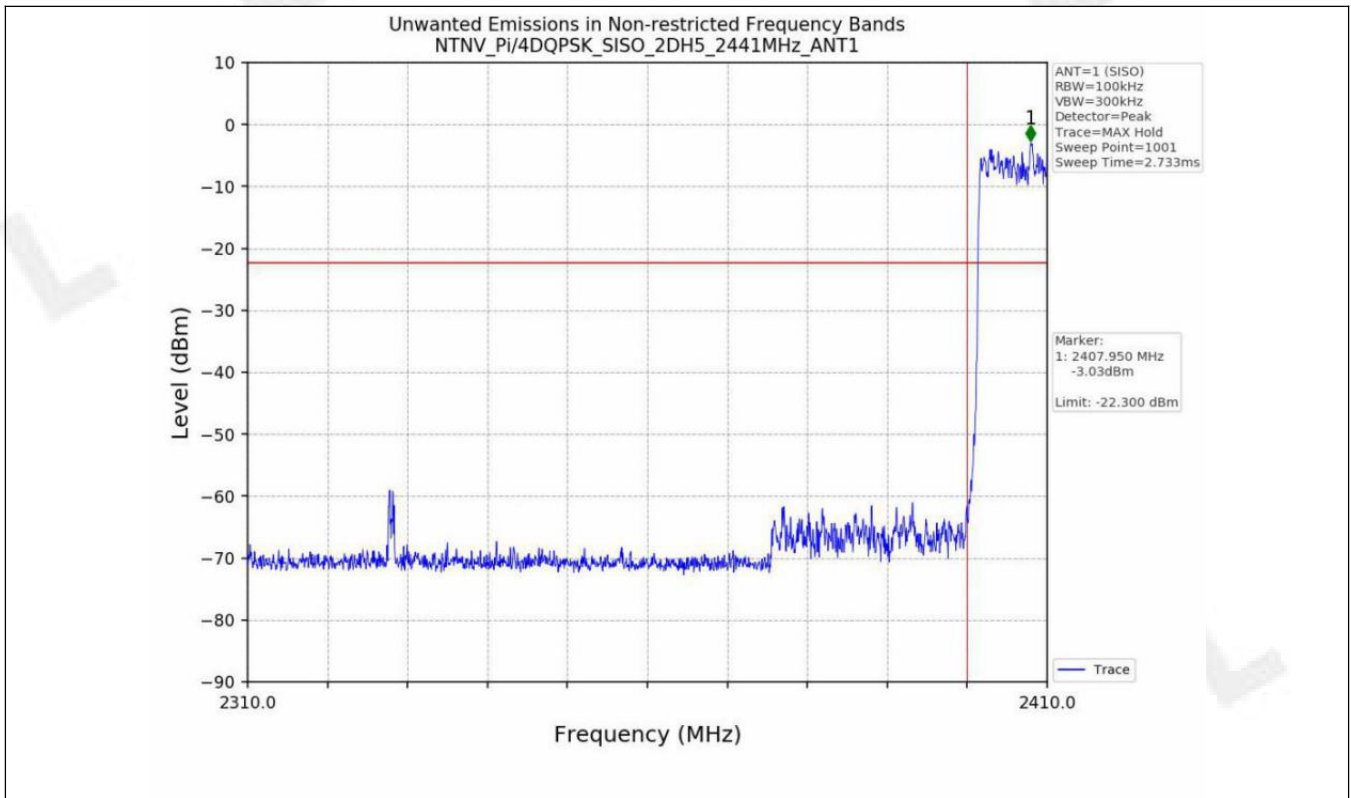
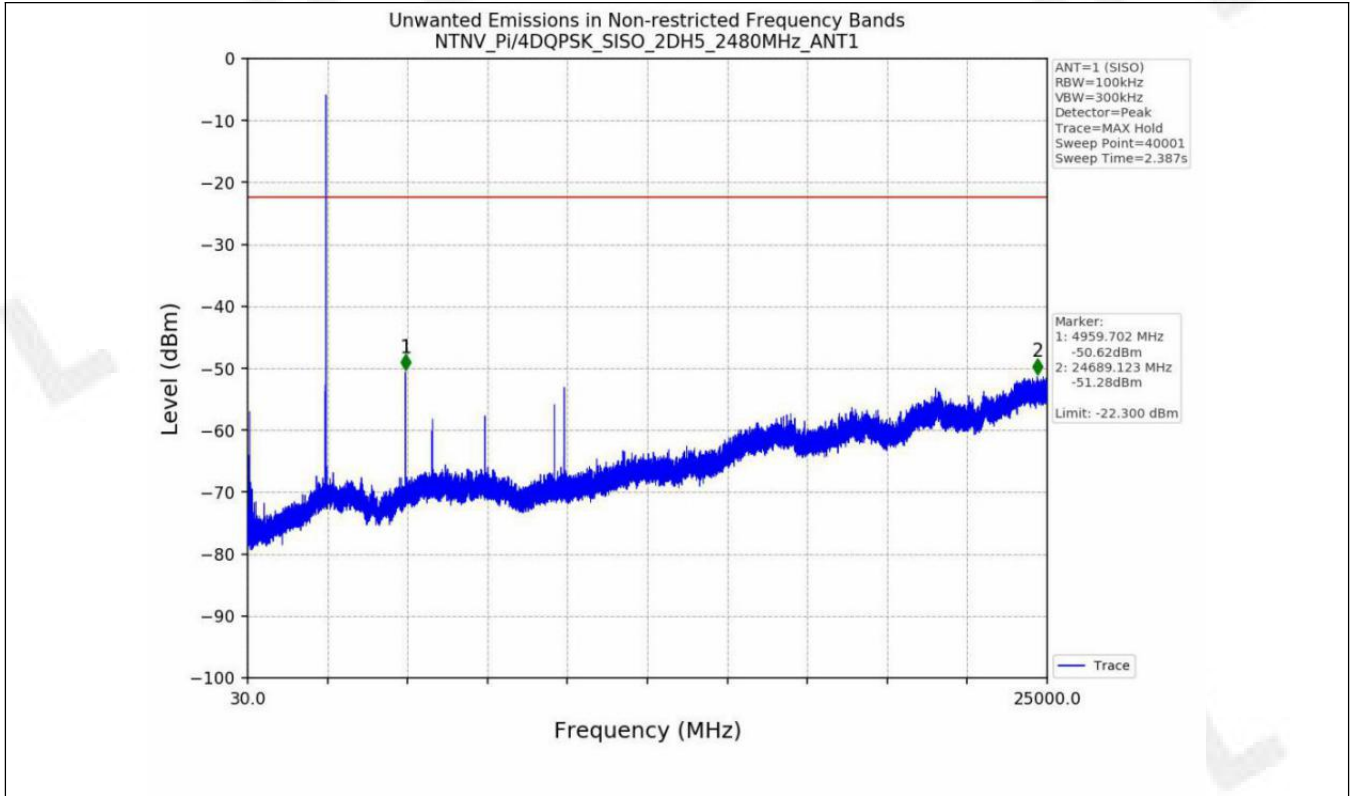


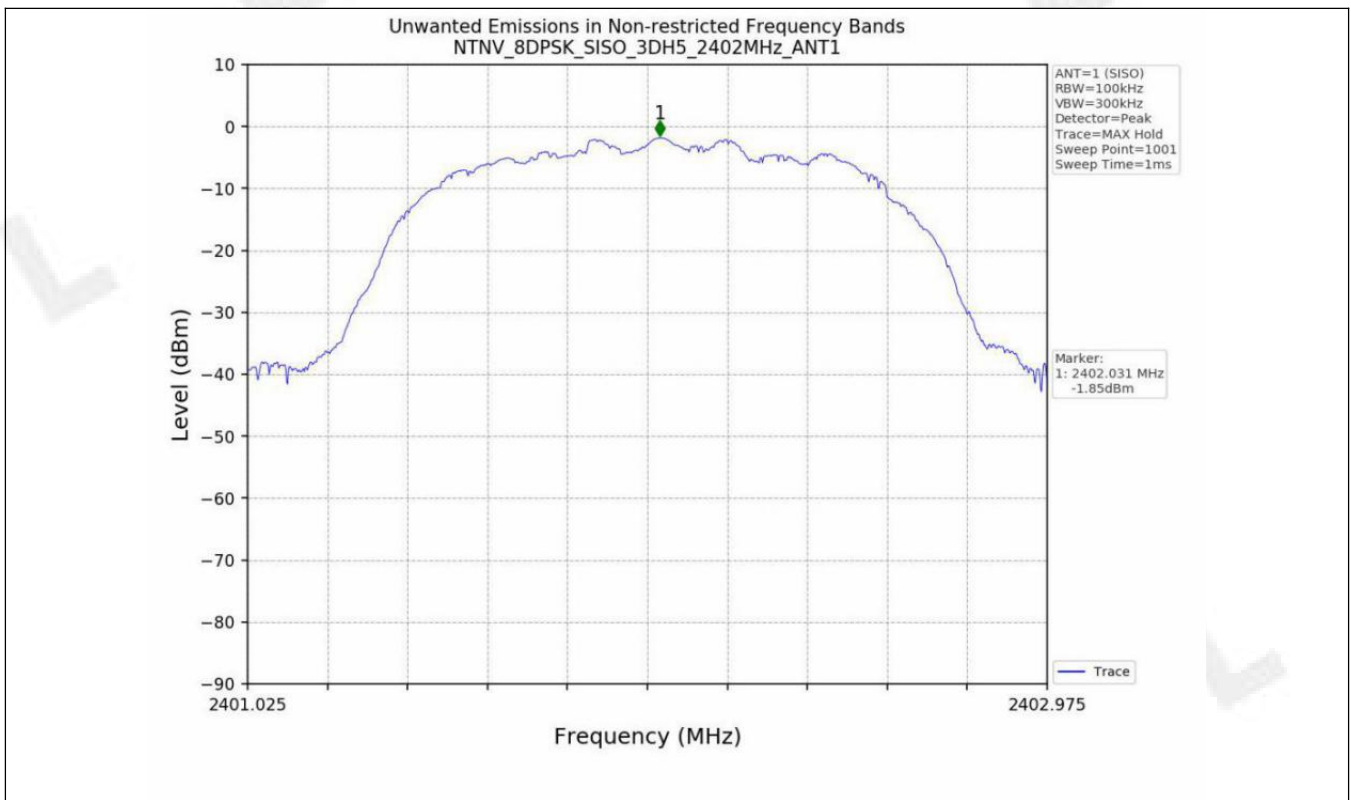
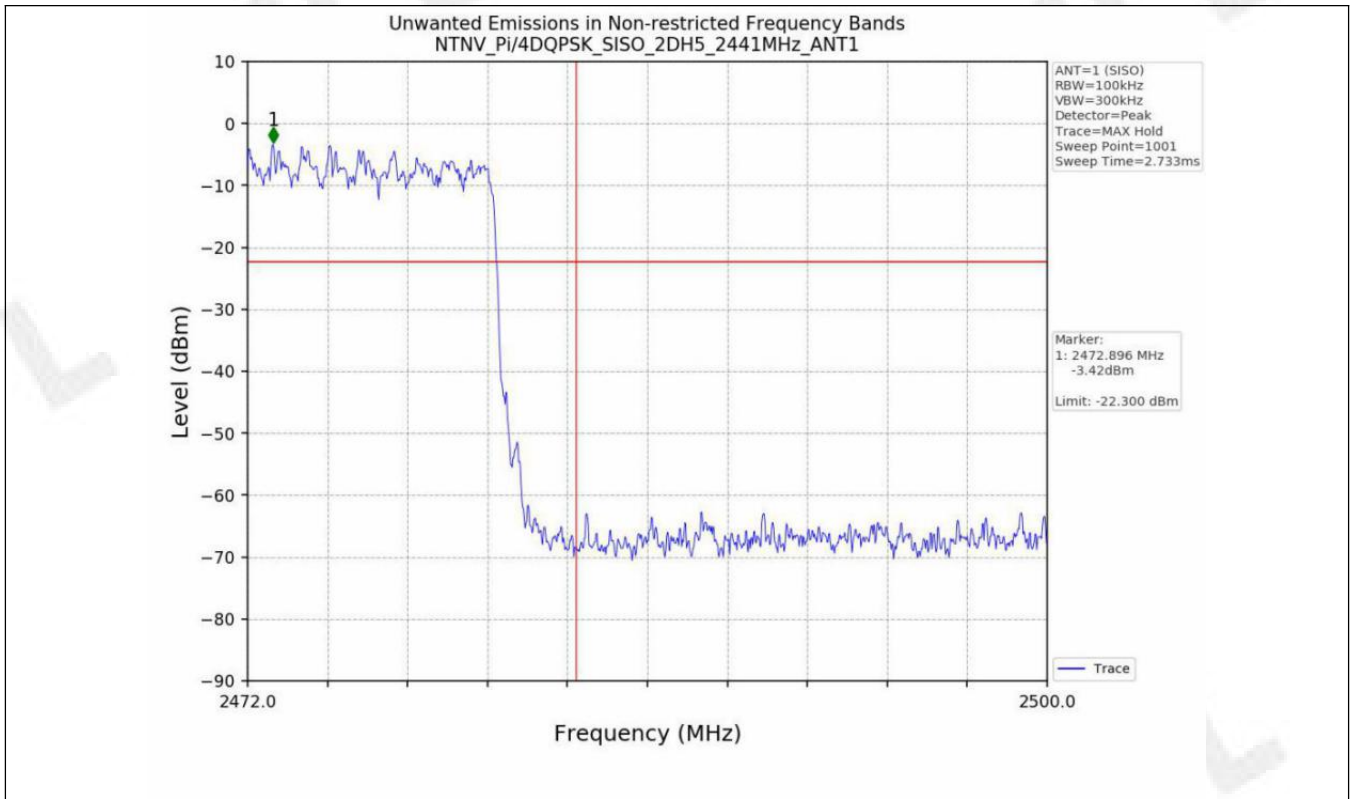


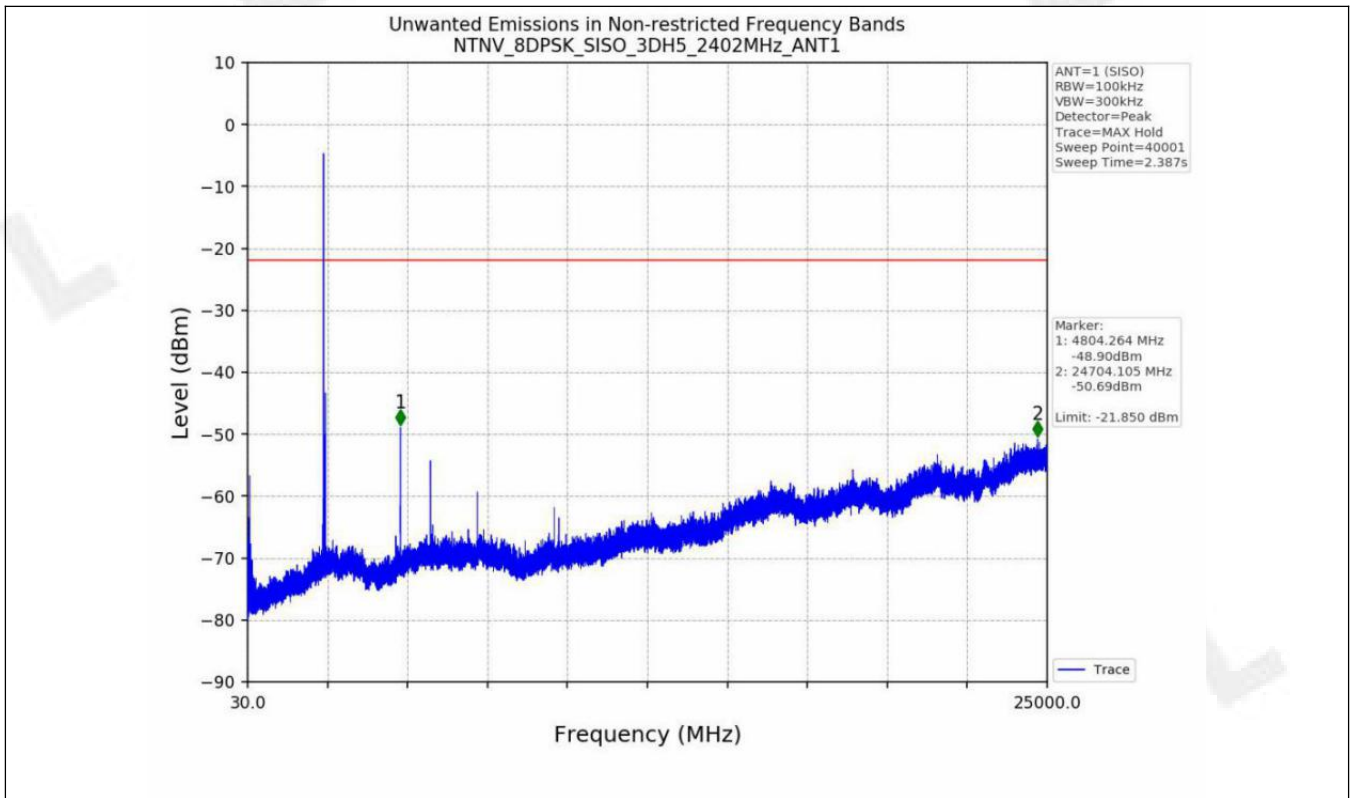
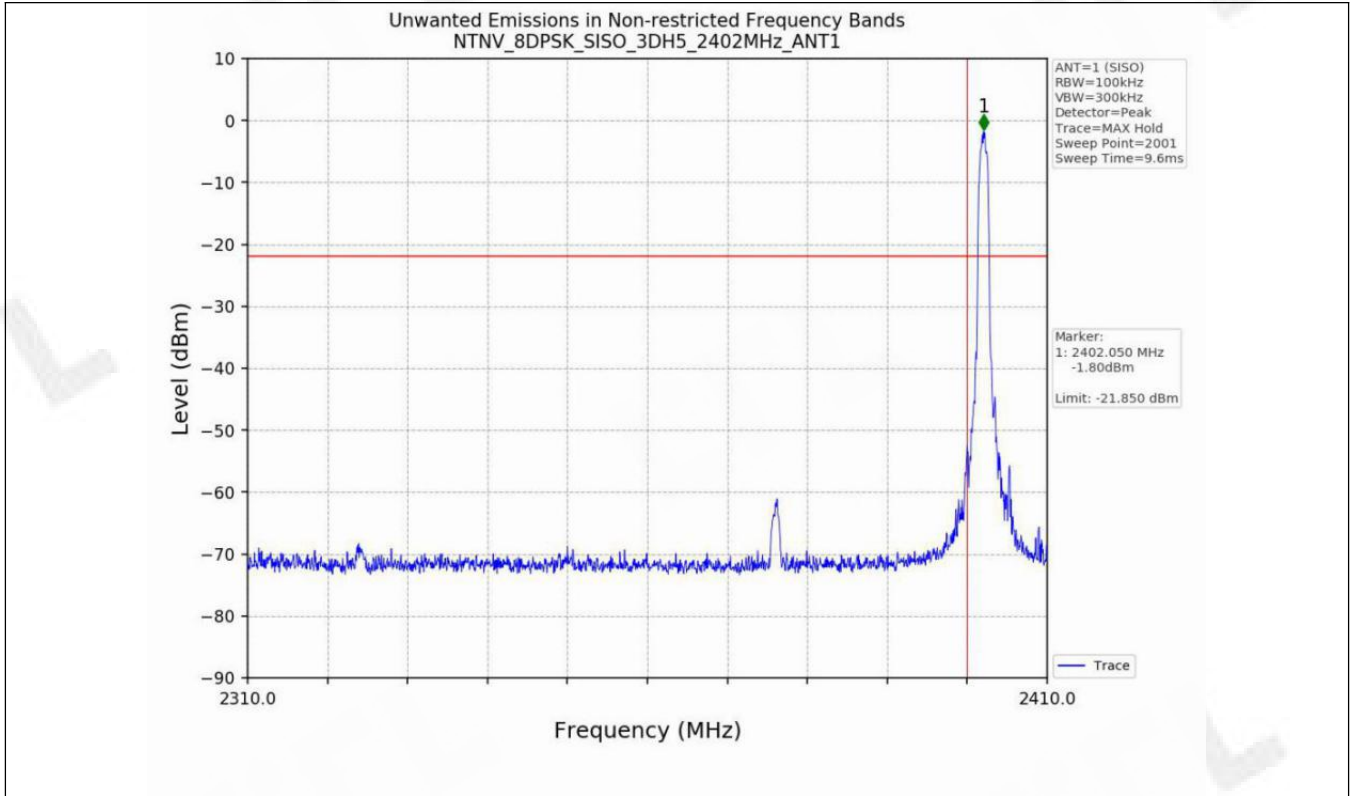


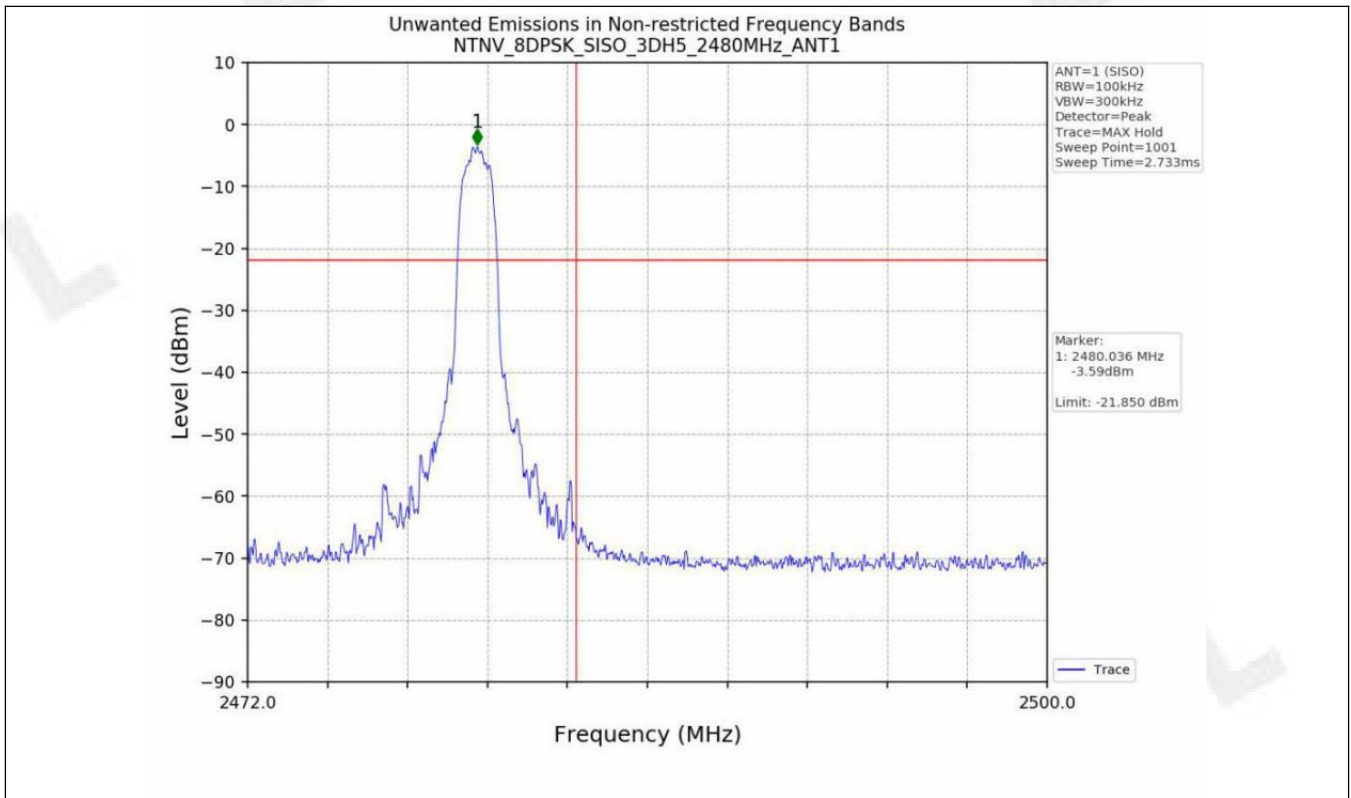
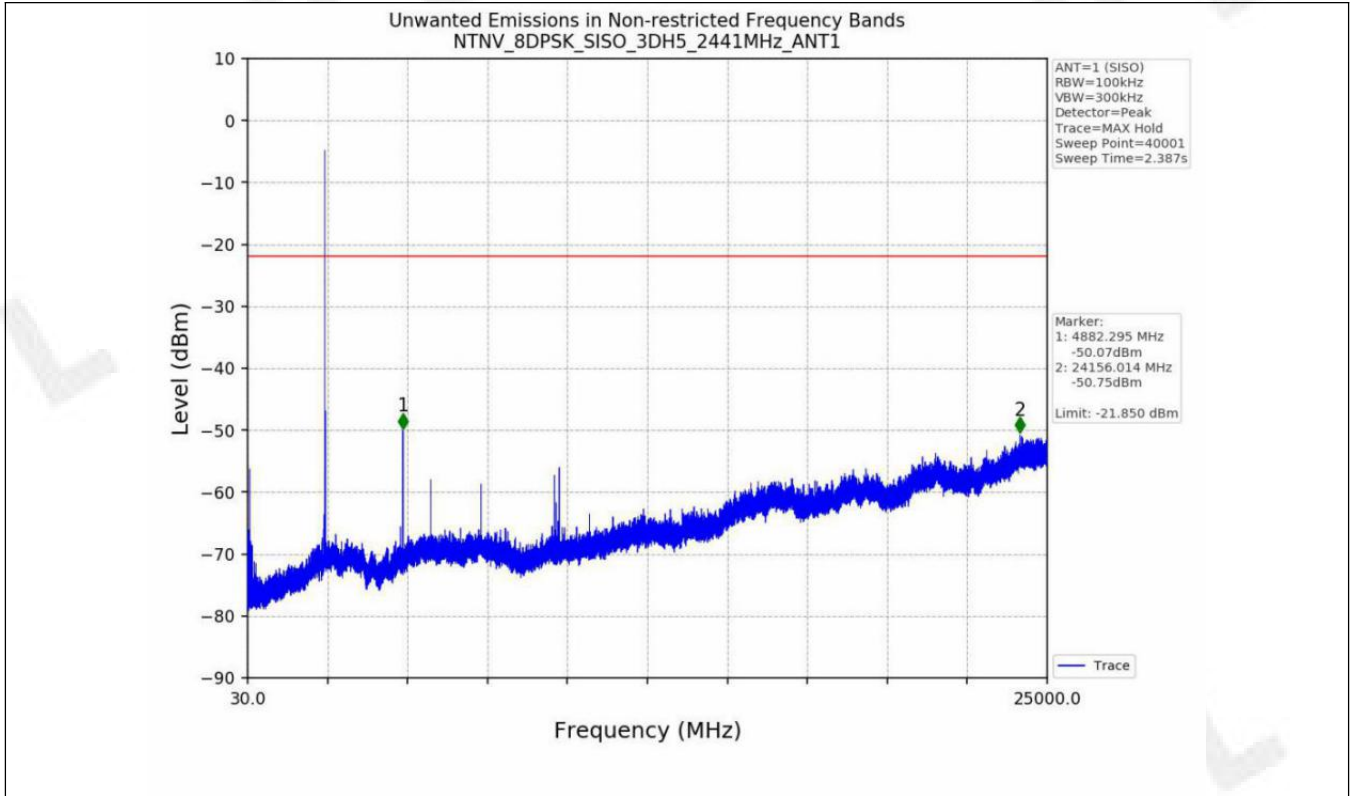


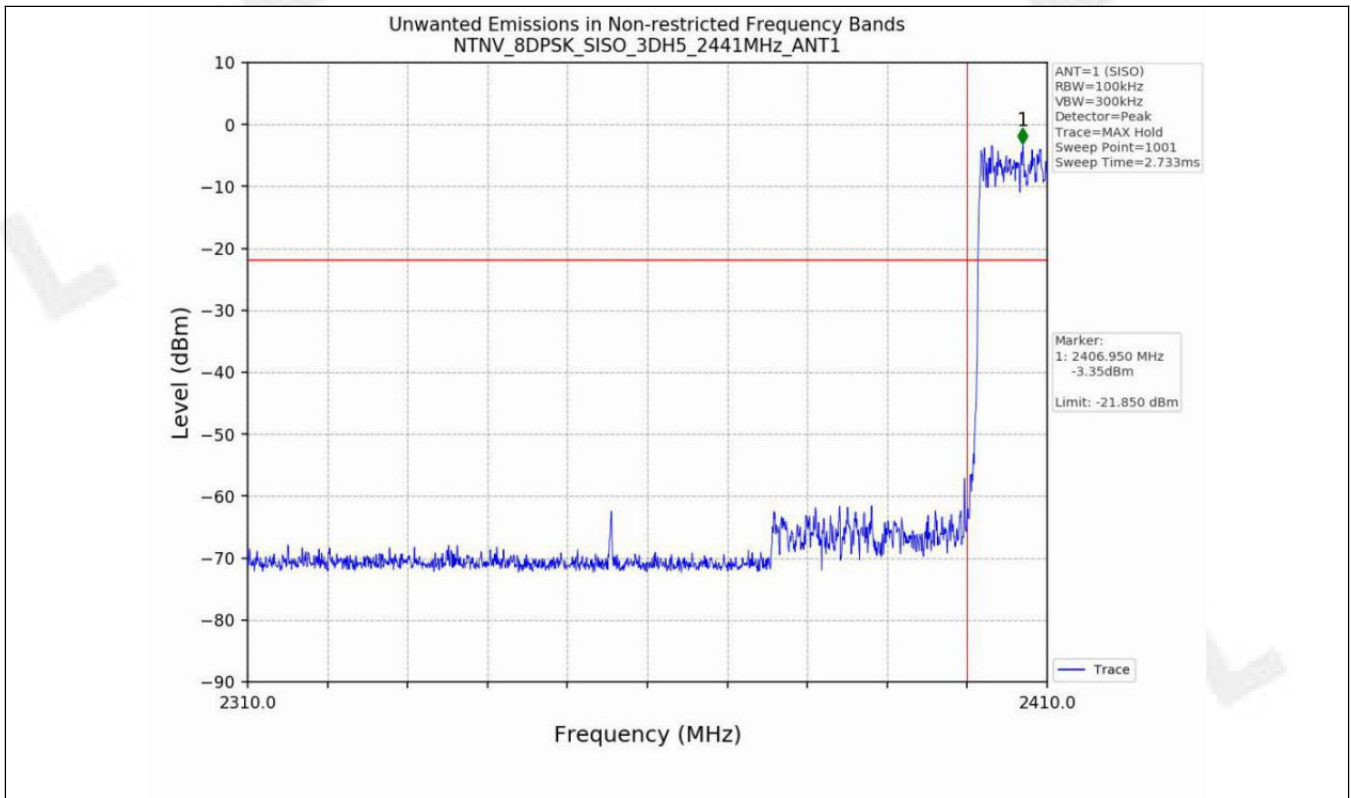
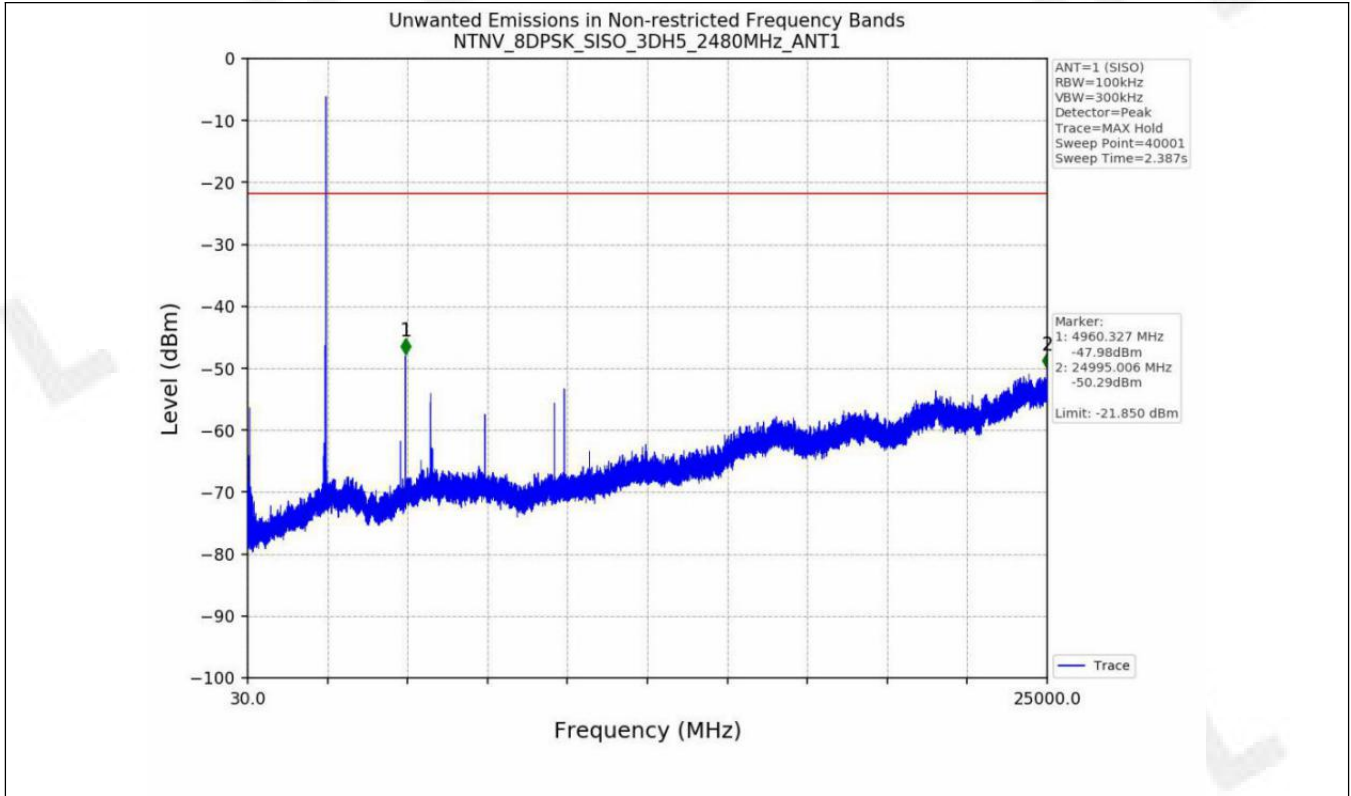


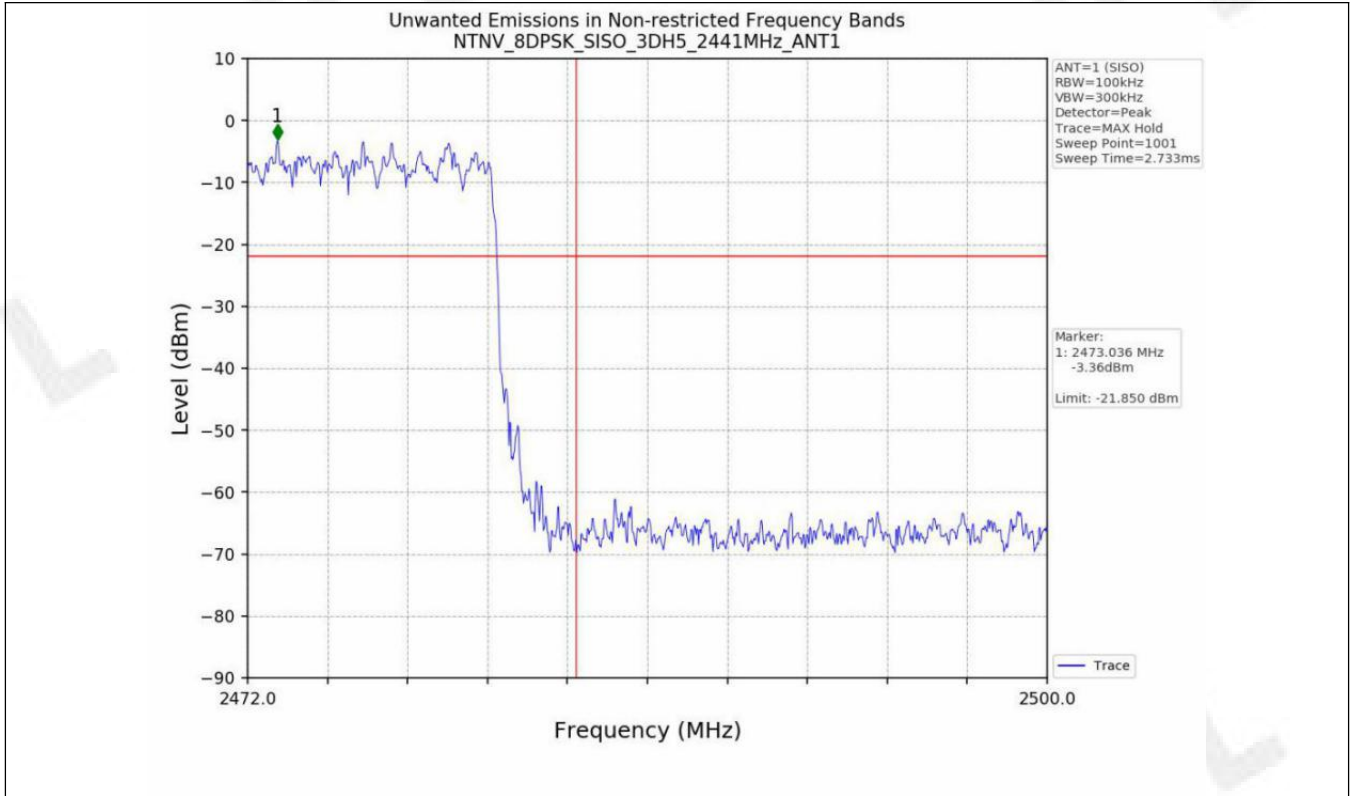












7. Frequency Error

7.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT	Measured Frequency (MHz)		Verdict
				Test Result	Limit	
GFSK	2402	SISO	1	2402.03	2400-2483.5	PASS
	2441	SISO	1	2441.03	2400-2483.5	PASS
	2480	SISO	1	2480.03	2400-2483.5	PASS
Pi/4DQPSK	2402	SISO	1	2402.03	2400-2483.5	PASS
	2441	SISO	1	2441.03	2400-2483.5	PASS
	2480	SISO	1	2480.03	2400-2483.5	PASS

7.2 Test Graph

