

Annex for Bluetooth BR&EDR Part 15.247

Test Report No. : CTL2008051012-WF

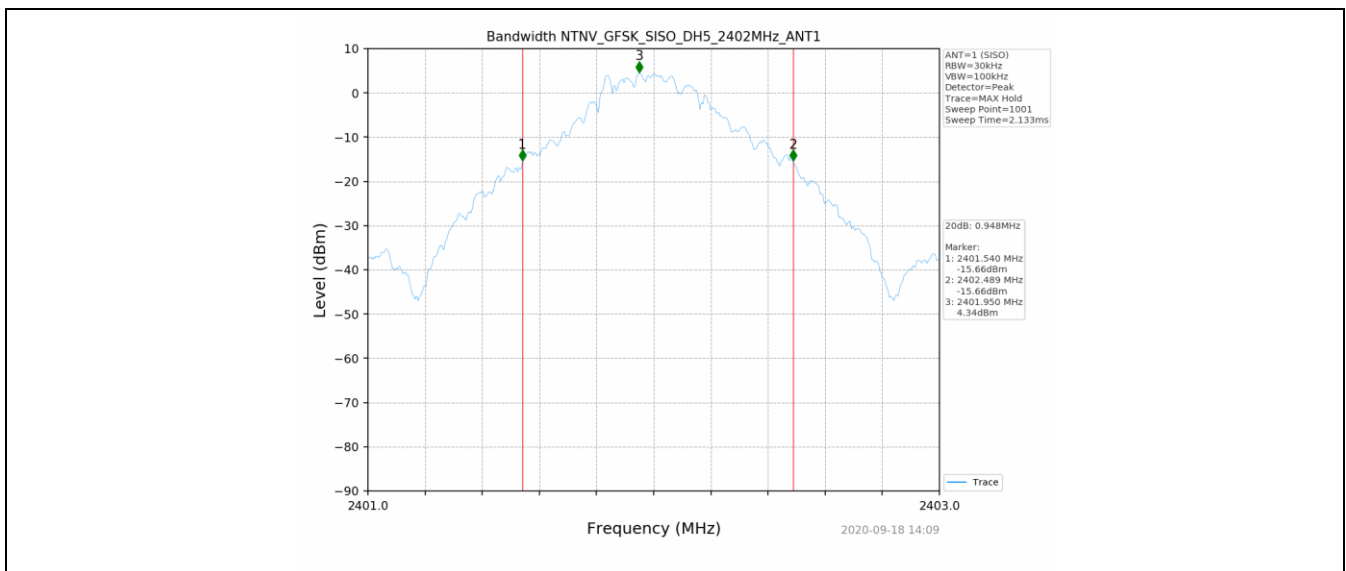
1. Bandwidth

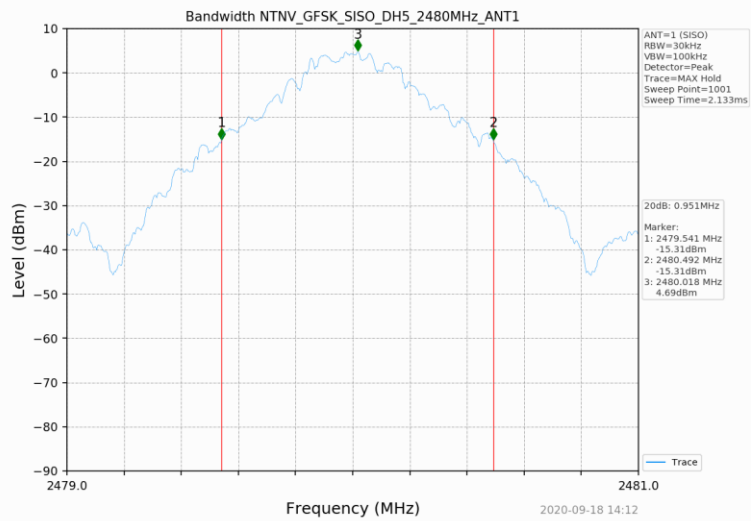
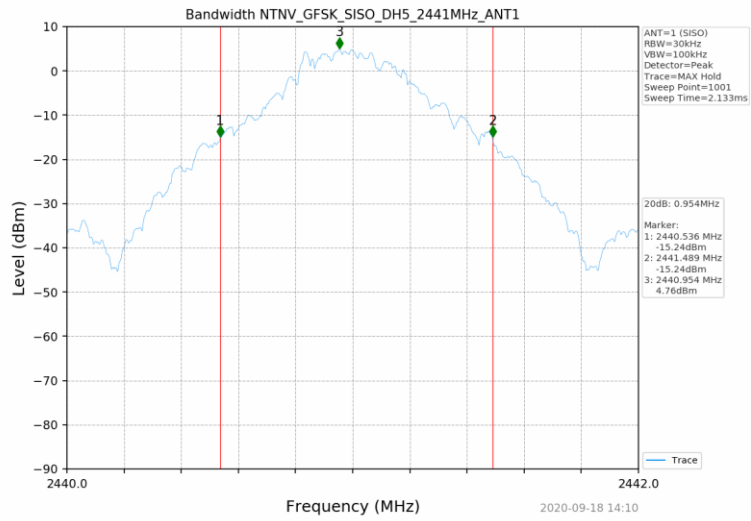
1.1 Test Result

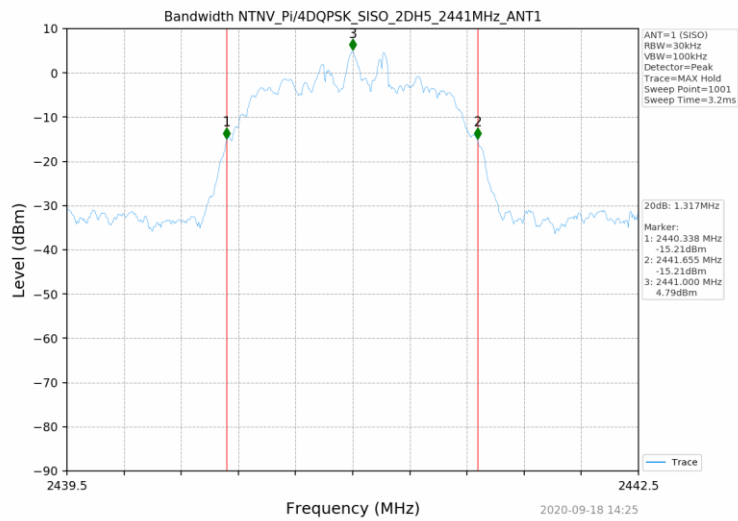
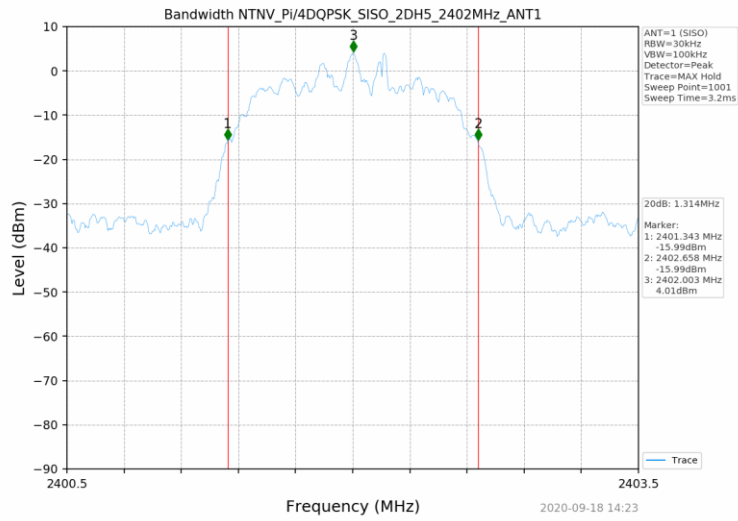
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.948	PASS
	2441	SISO	1	0.954	PASS
	2480	SISO	1	0.951	PASS
Pi/4DQPSK	2402	SISO	1	1.314	PASS
	2441	SISO	1	1.317	PASS
	2480	SISO	1	1.317	PASS
8DPSK	2402	SISO	1	1.312	PASS
	2441	SISO	1	1.320	PASS
	2480	SISO	1	1.313	PASS

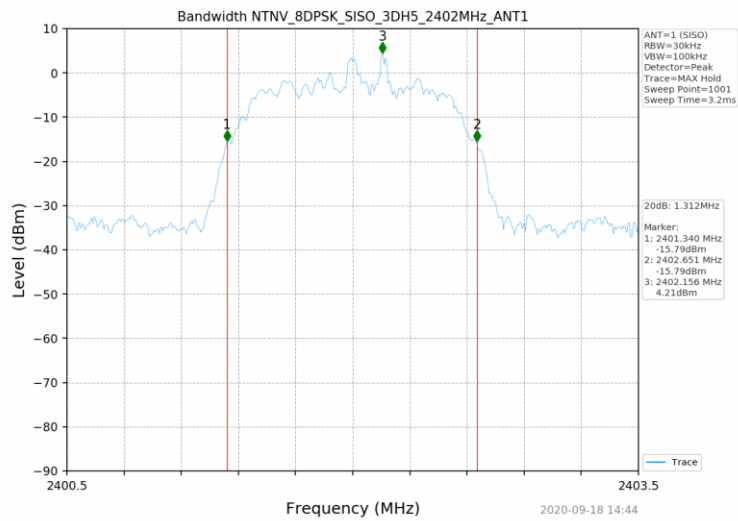
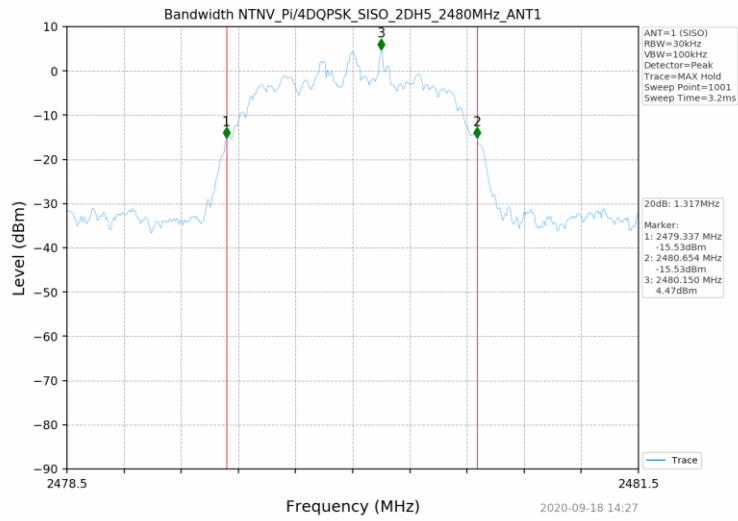
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.846	Only for Report Use
	2441	SISO	1	0.841	Only for Report Use
	2480	SISO	1	0.858	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.196	Only for Report Use
	2441	SISO	1	1.195	Only for Report Use
	2480	SISO	1	1.189	Only for Report Use
8DPSK	2402	SISO	1	1.192	Only for Report Use
	2441	SISO	1	1.207	Only for Report Use
	2480	SISO	1	1.203	Only for Report Use

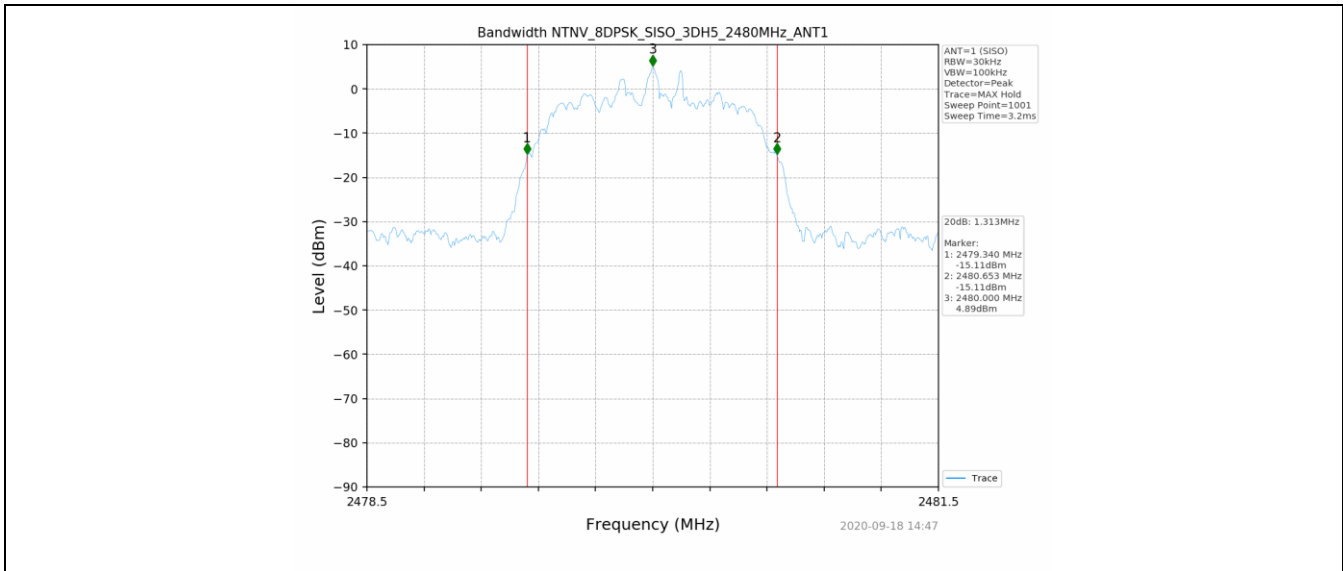
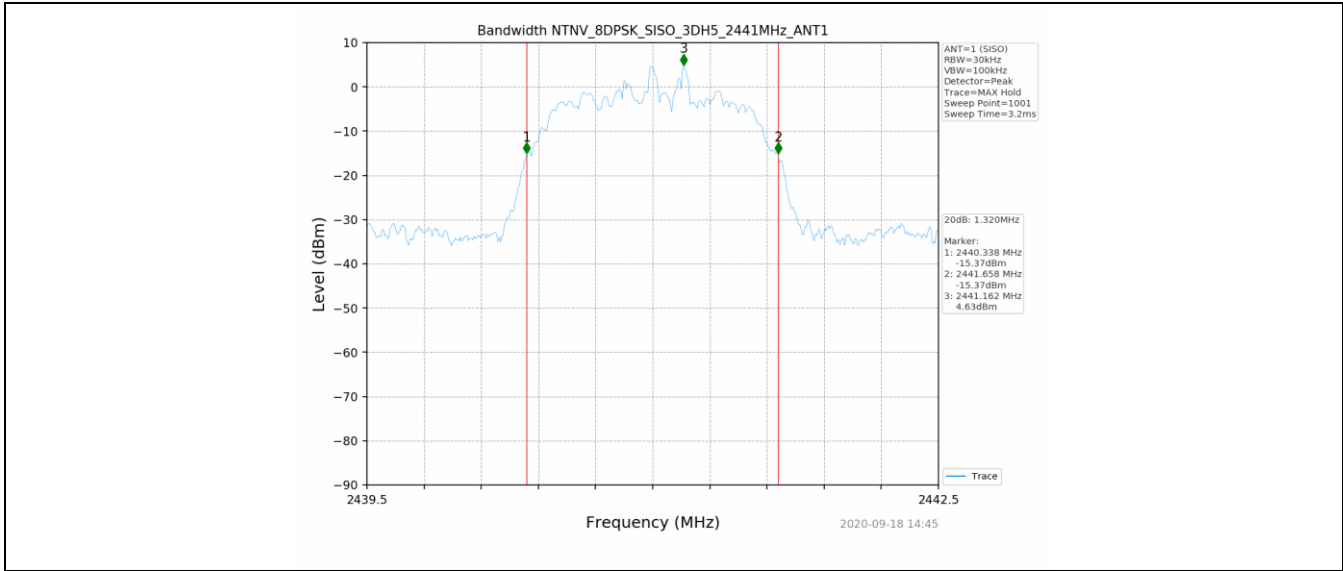
1.2 Test Graph - 20dB Bandwidth



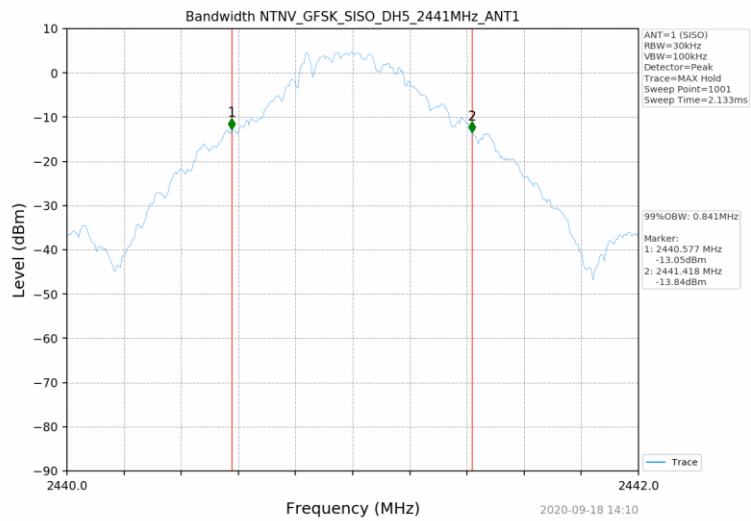
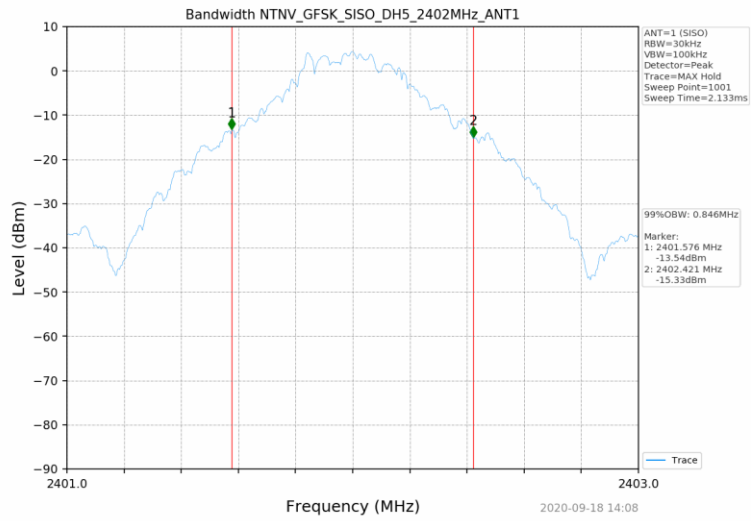


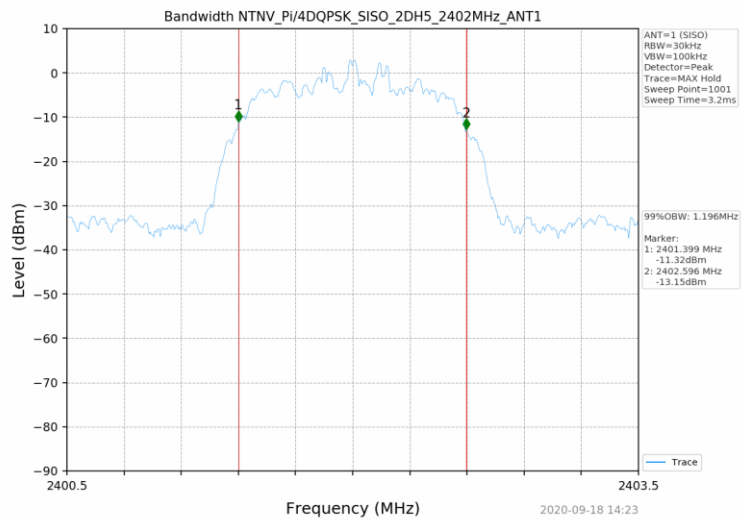
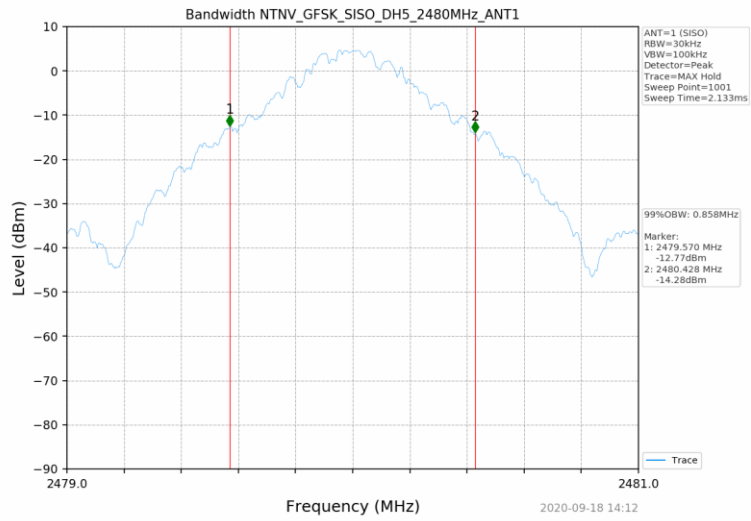


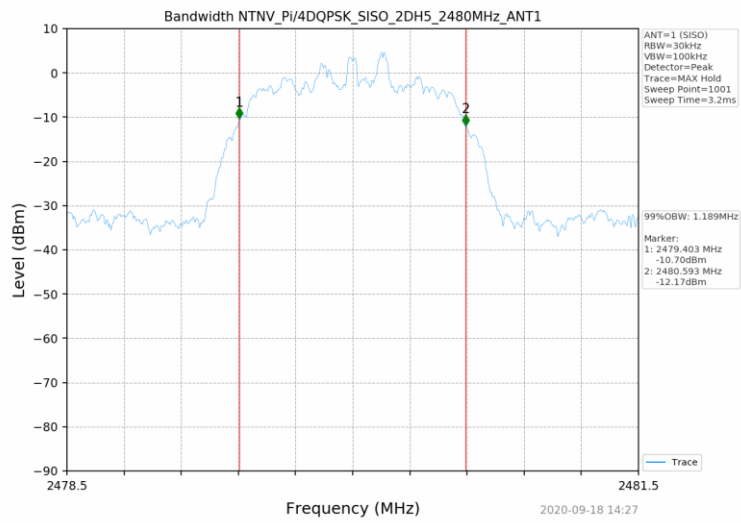
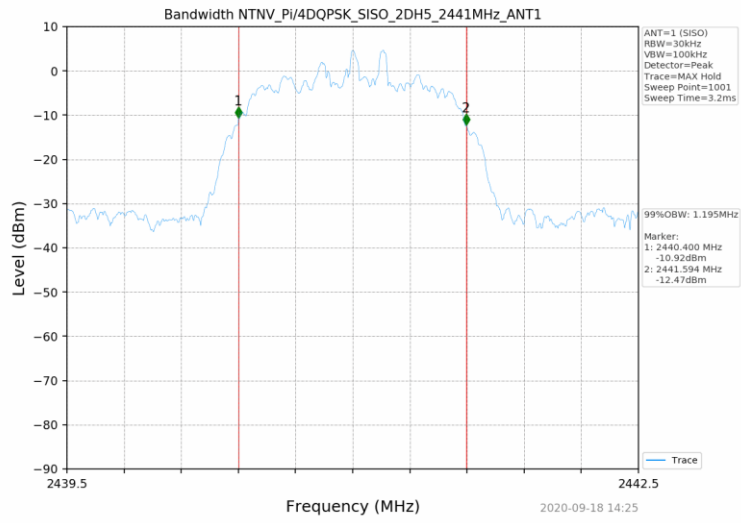


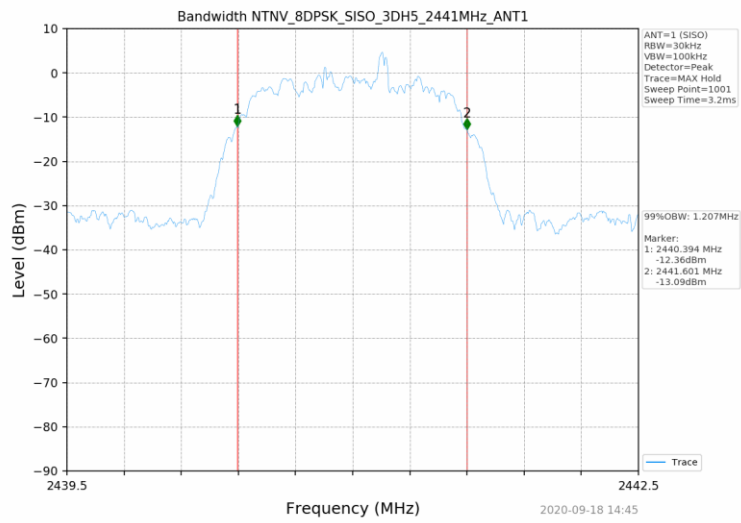
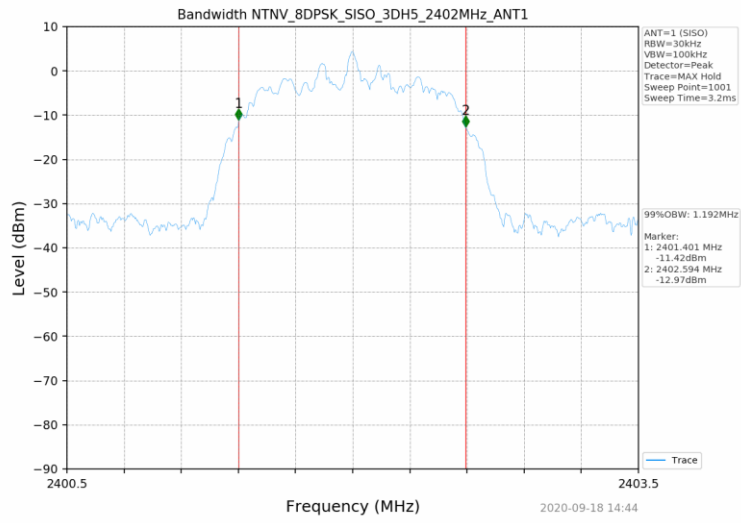


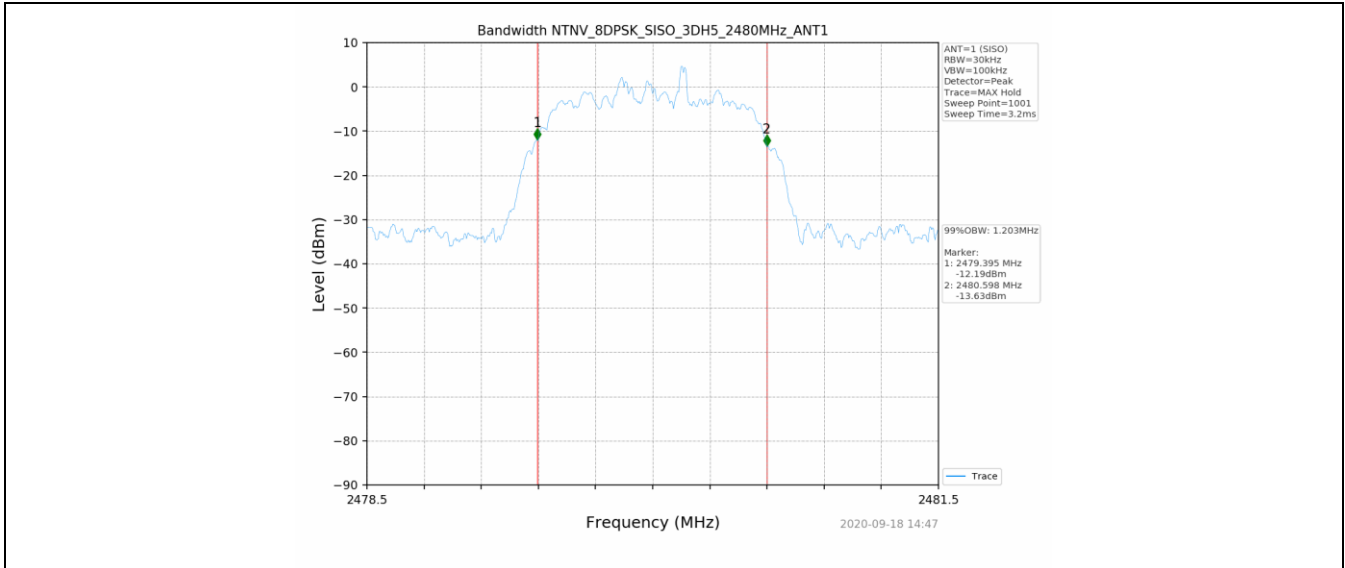
1.3 Test Graph - 99% Occupied Bandwidth









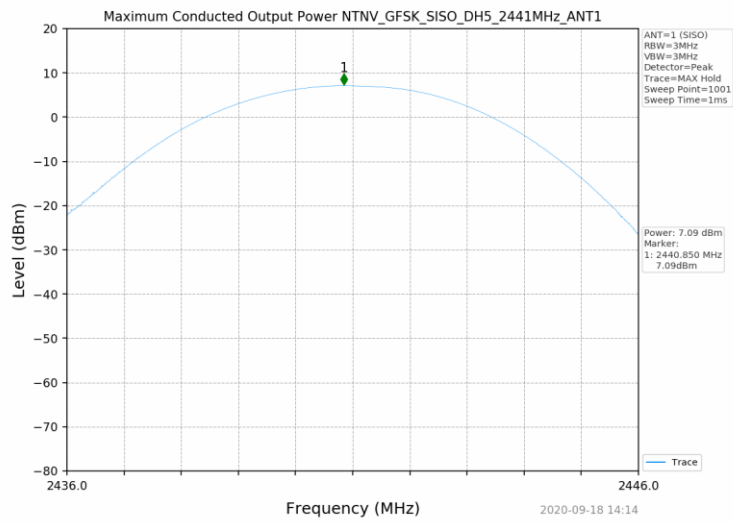
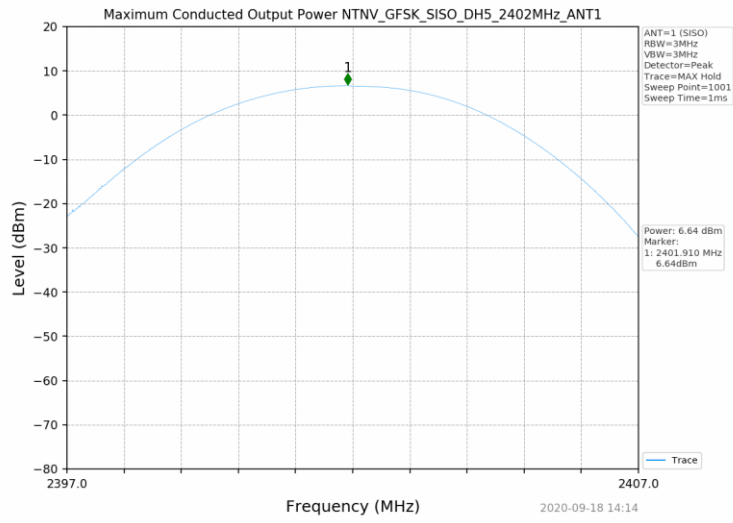


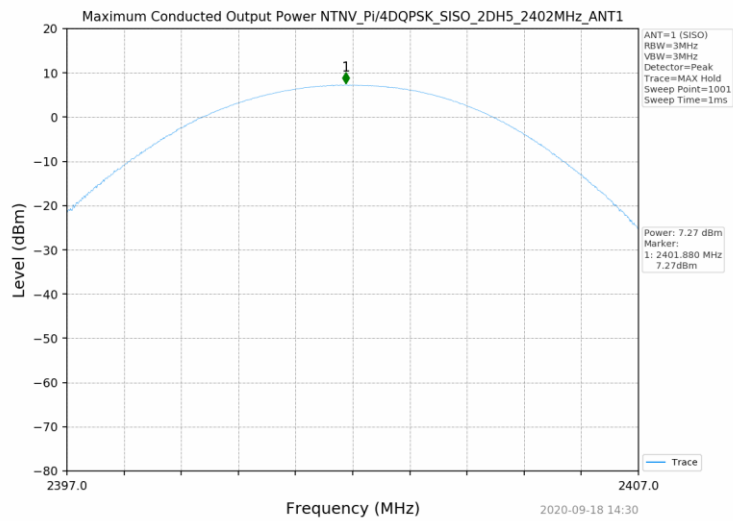
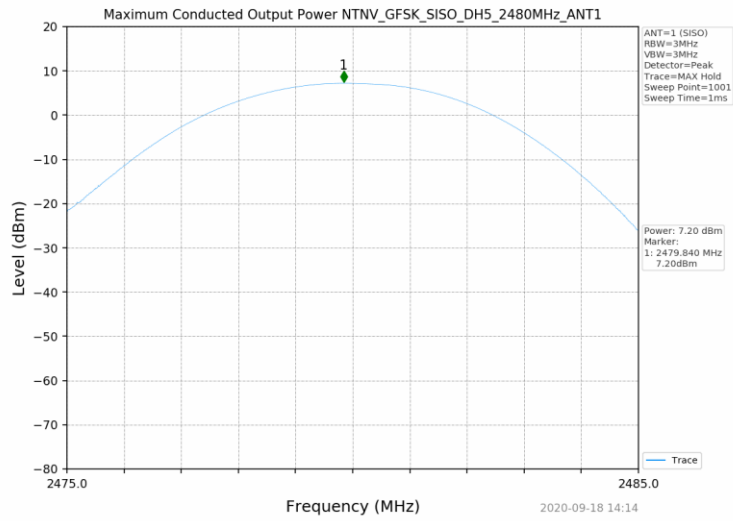
2. Maximum Conducted Output Power

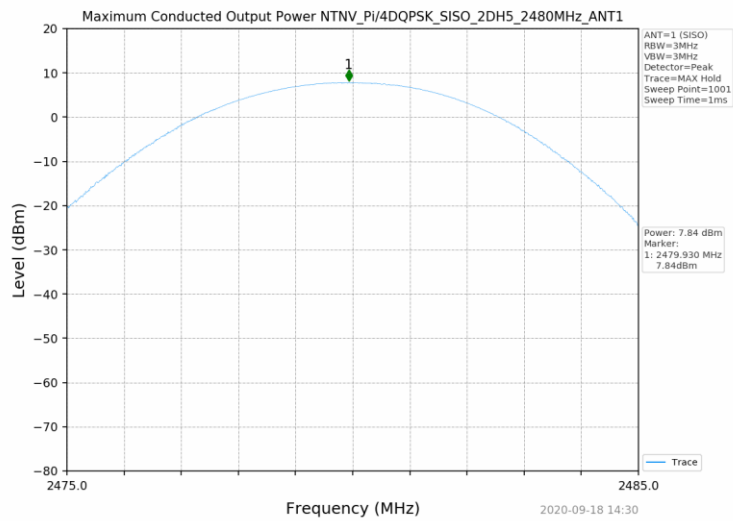
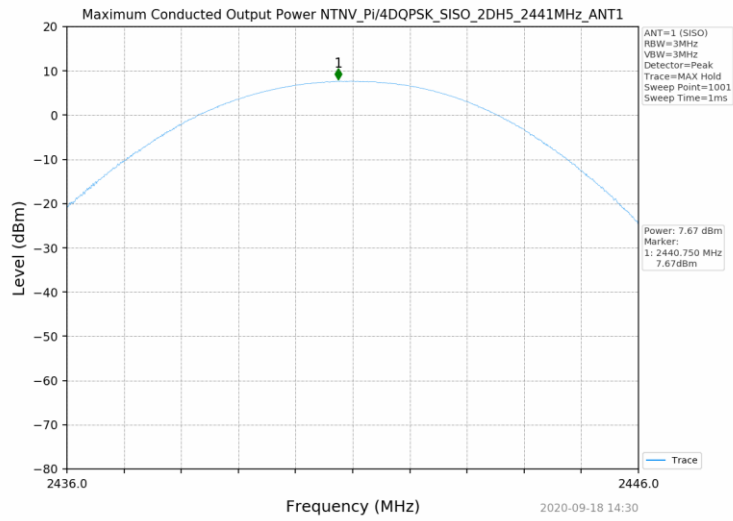
2.1 Test Result

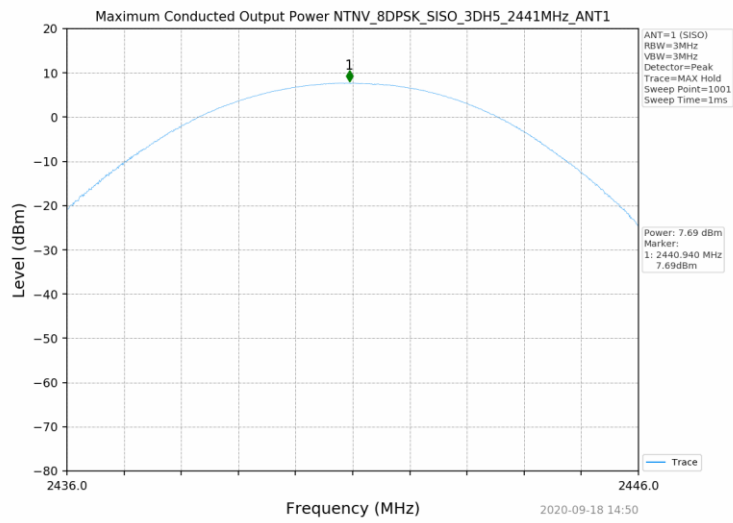
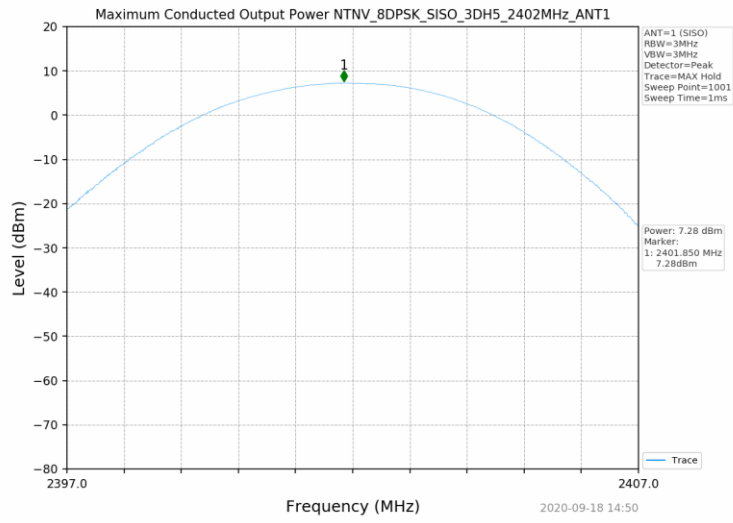
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	6.64	30	PASS
	2441	SISO	7.09	30	PASS
	2480	SISO	7.20	30	PASS
Pi/4DQPSK	2402	SISO	7.27	20.97	PASS
	2441	SISO	7.67	20.97	PASS
	2480	SISO	7.84	20.97	PASS
8DPSK	2402	SISO	7.28	20.97	PASS
	2441	SISO	7.69	20.97	PASS
	2480	SISO	7.85	20.97	PASS

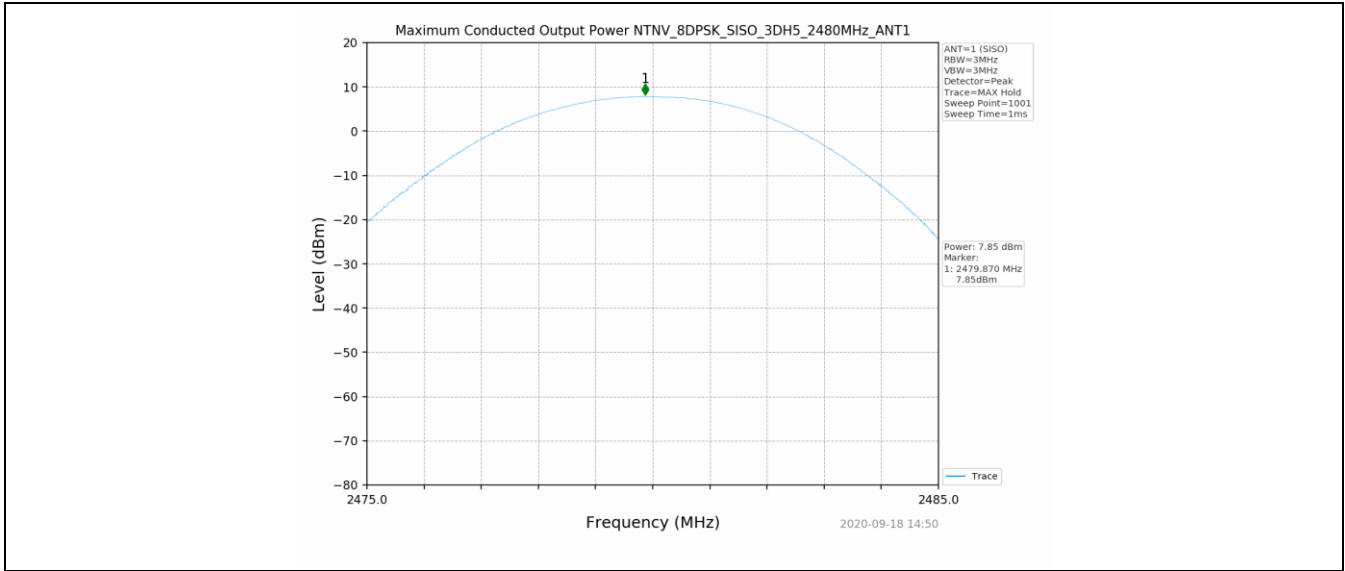
2.2 Test Graph









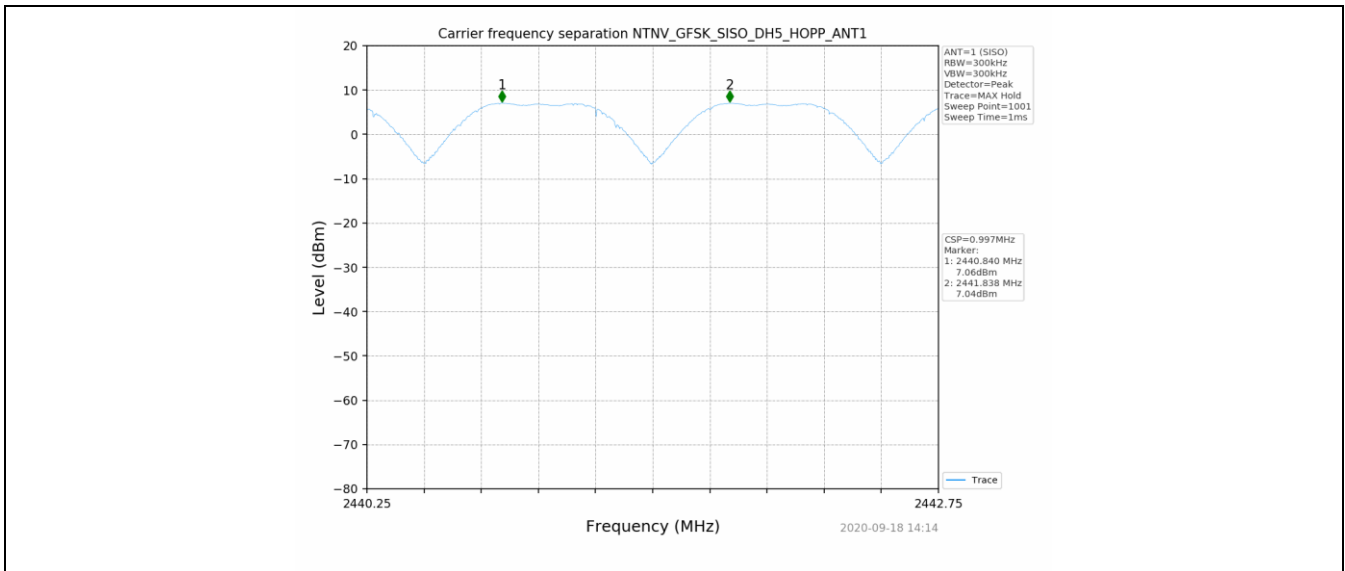


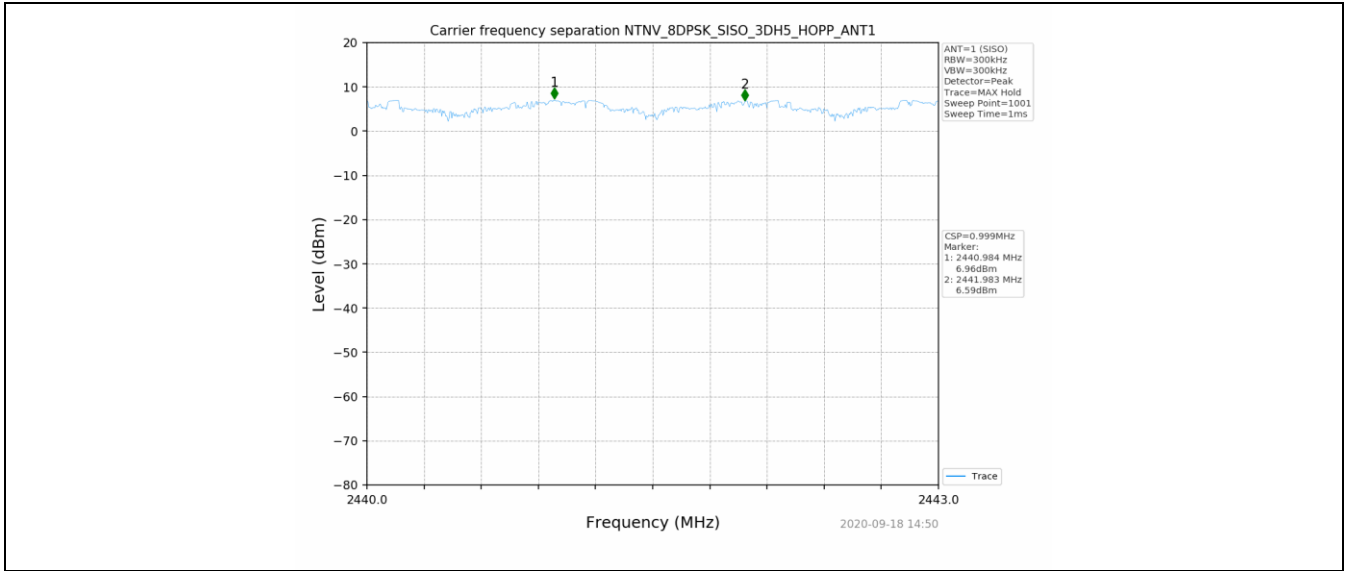
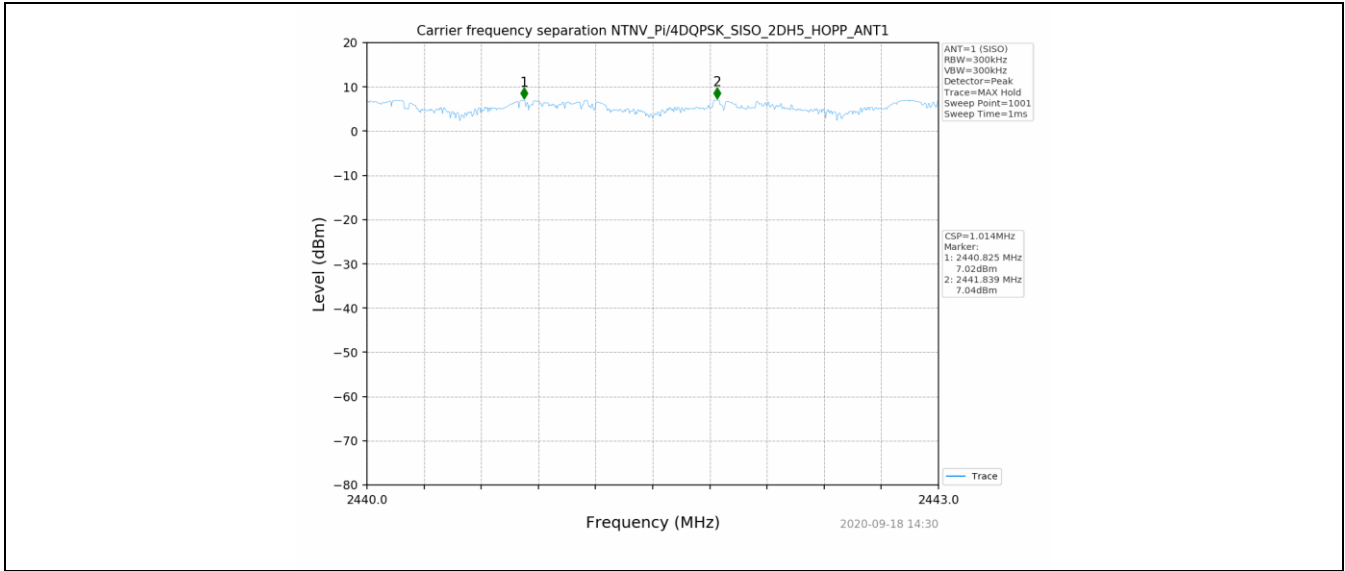
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	0.997	0.954	≥ 0.954	PASS
Pi/4DQPSK	SISO	1	1.014	1.317	≥ 0.878	PASS
8DPSK	SISO	1	0.999	1.320	≥ 0.880	PASS

3.2 Test Graph



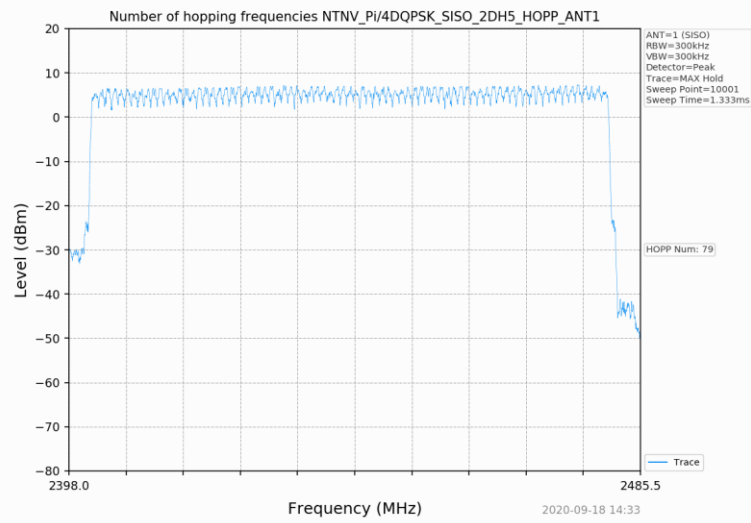
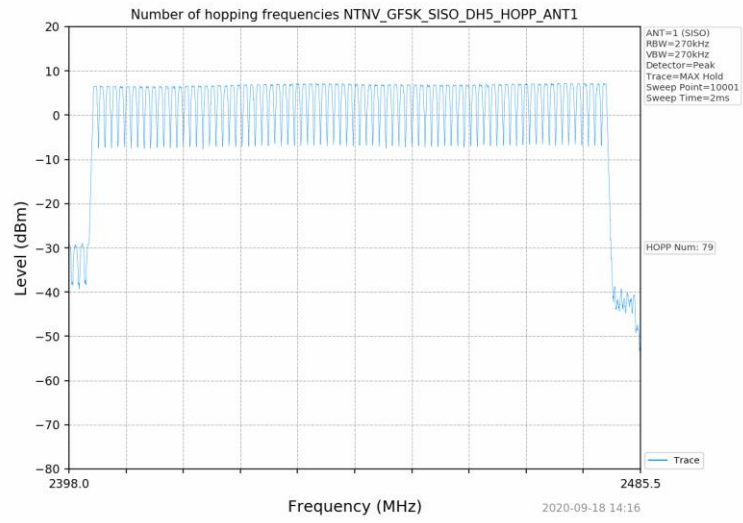


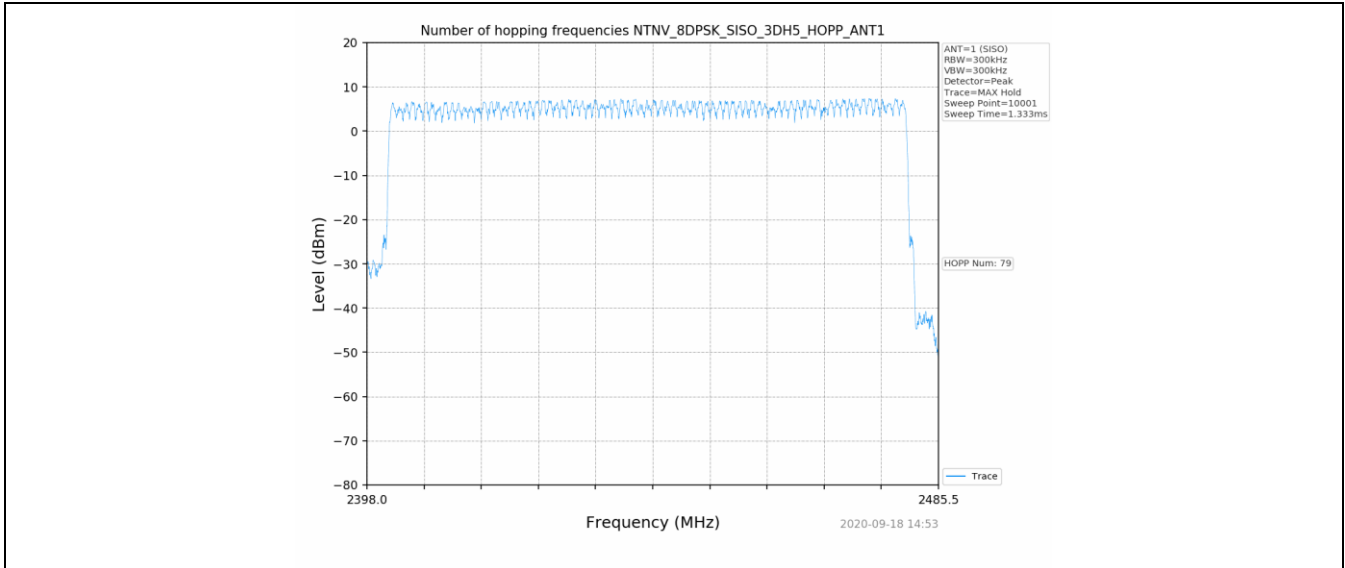
4. Number of hopping frequencies

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



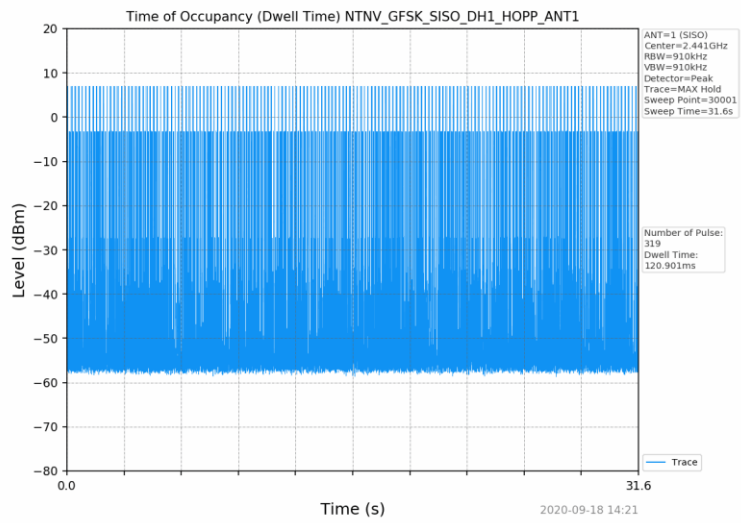
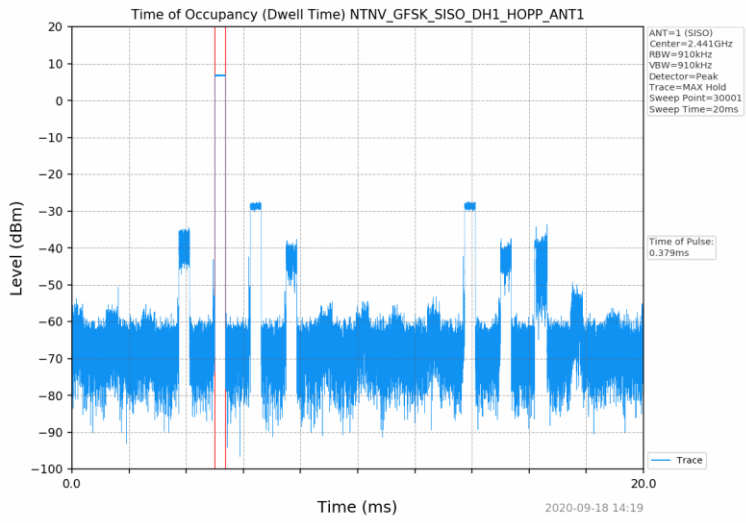


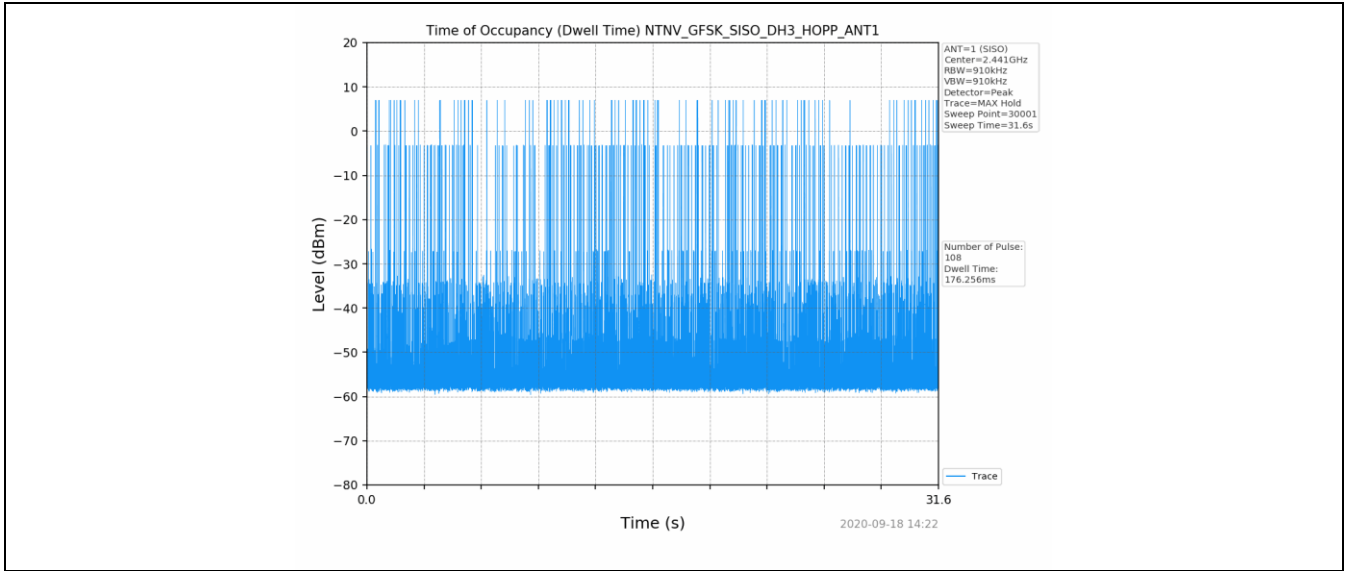
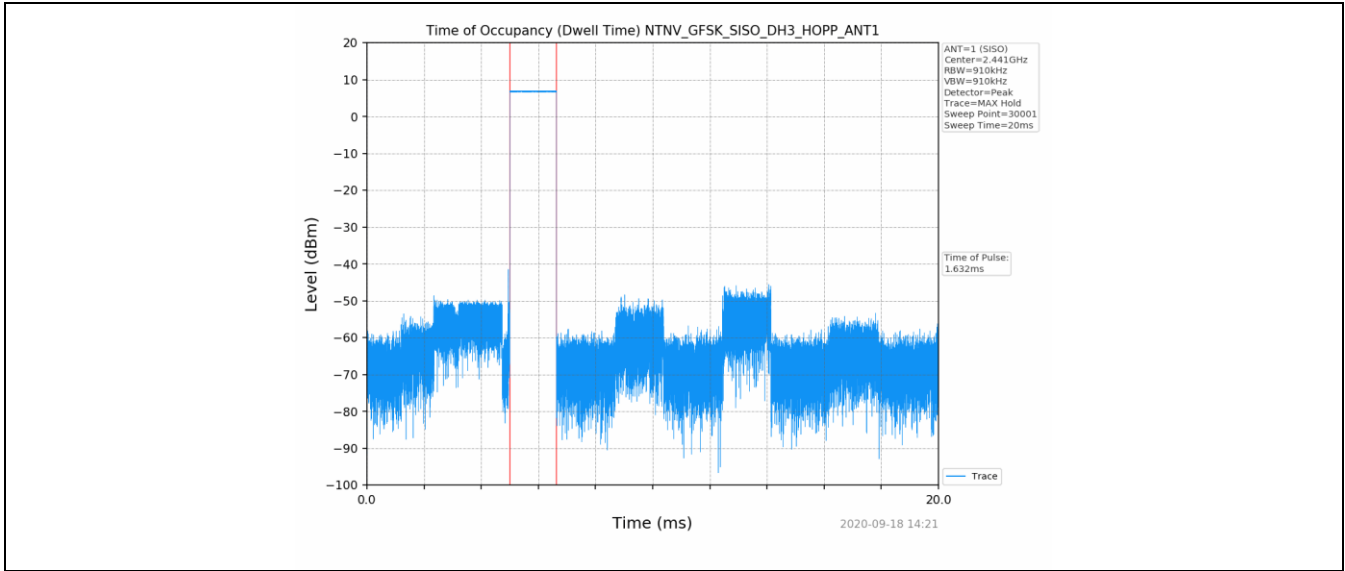
5. Time of Occupancy (Dwell Time)

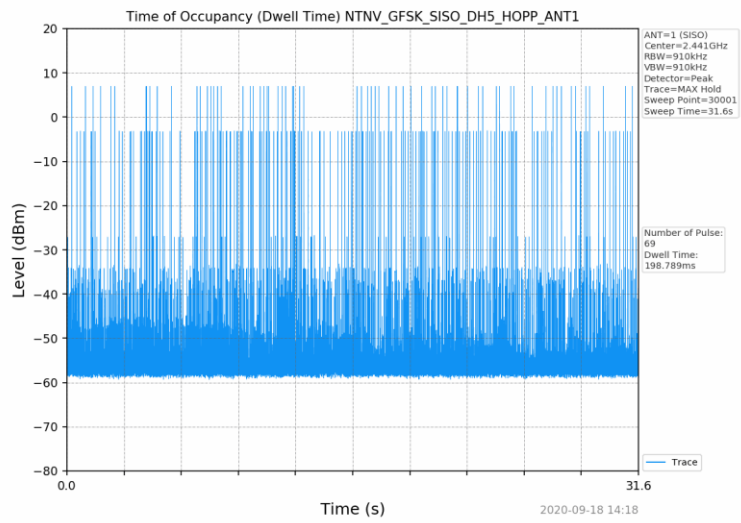
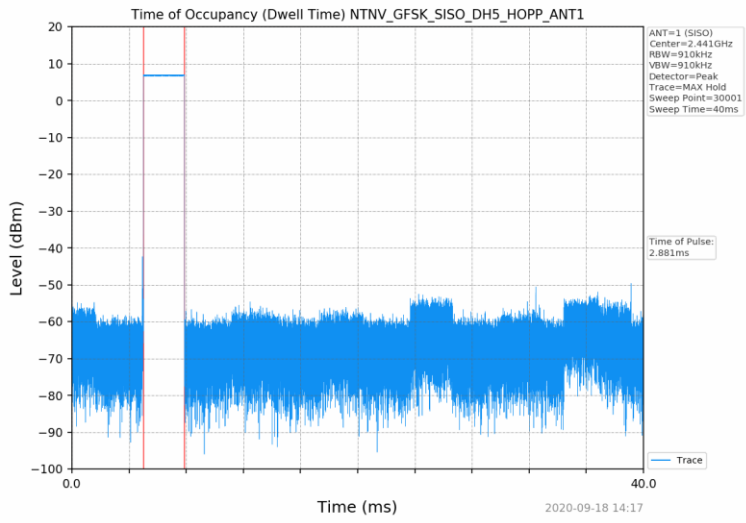
5.1 Test Result

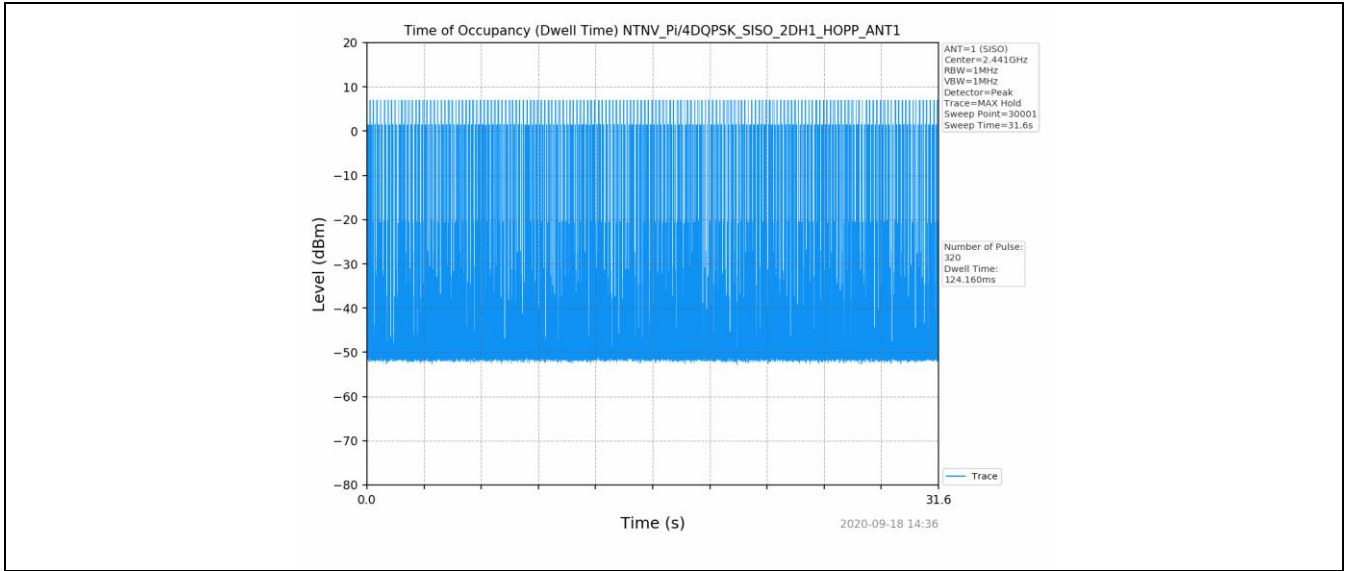
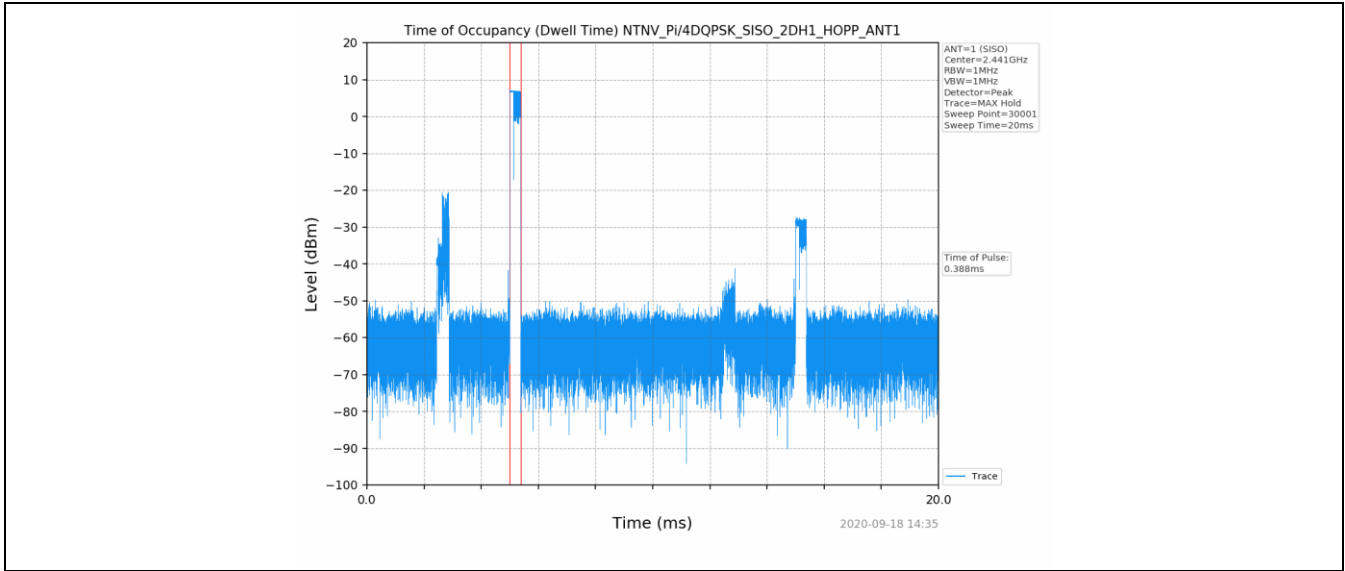
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.379	31.6	319	120.901	≤400	PASS
	DH3	SISO	1	1.632	31.6	108	176.256	≤400	PASS
	DH5	SISO	1	2.881	31.6	69	198.789	≤400	PASS
Pi/4D QPS K	2DH1	SISO	1	0.388	31.6	320	124.160	≤400	PASS
	2DH3	SISO	1	1.503	31.6	109	163.827	≤400	PASS
	2DH5	SISO	1	2.887	31.6	62	178.994	≤400	PASS
8DPS K	3DH1	SISO	1	0.388	31.6	319	123.772	≤400	PASS
	3DH3	SISO	1	1.640	31.6	106	173.840	≤400	PASS
	3DH5	SISO	1	2.887	31.6	73	210.751	≤400	PASS

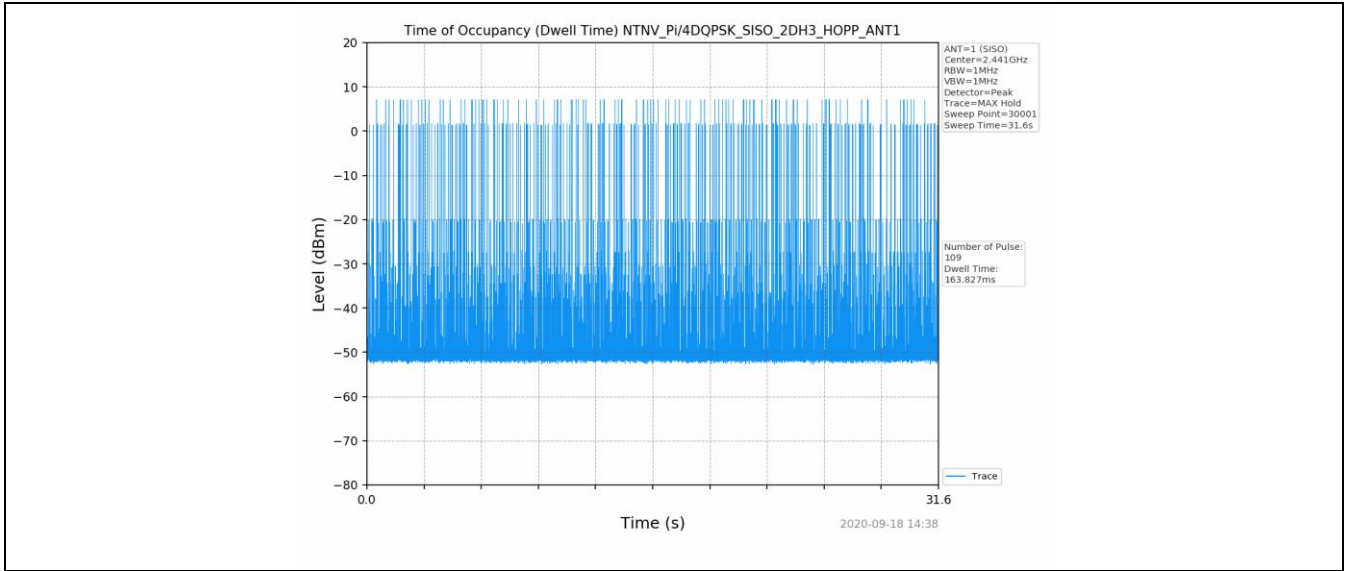
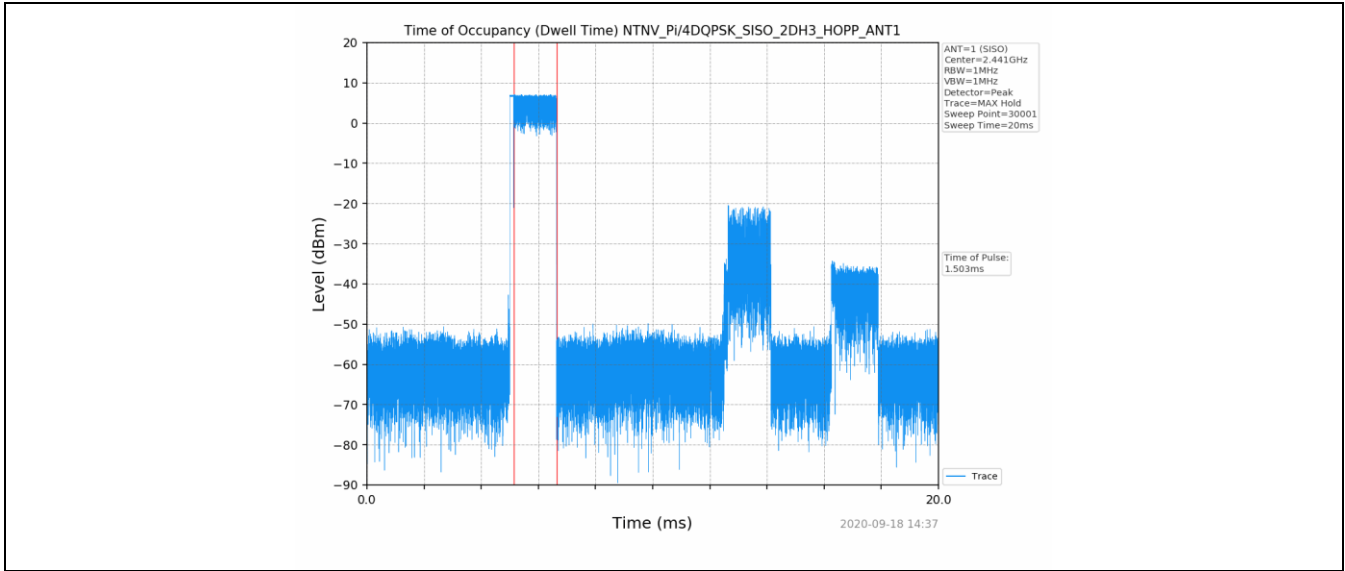
5.2 Test Graph

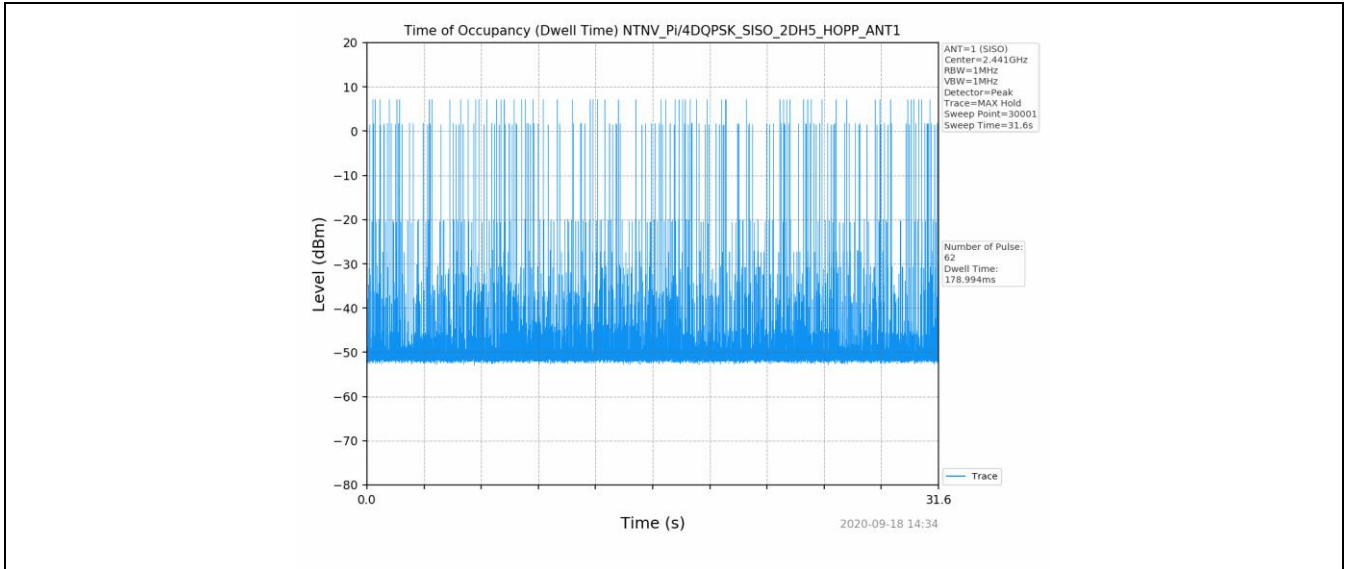


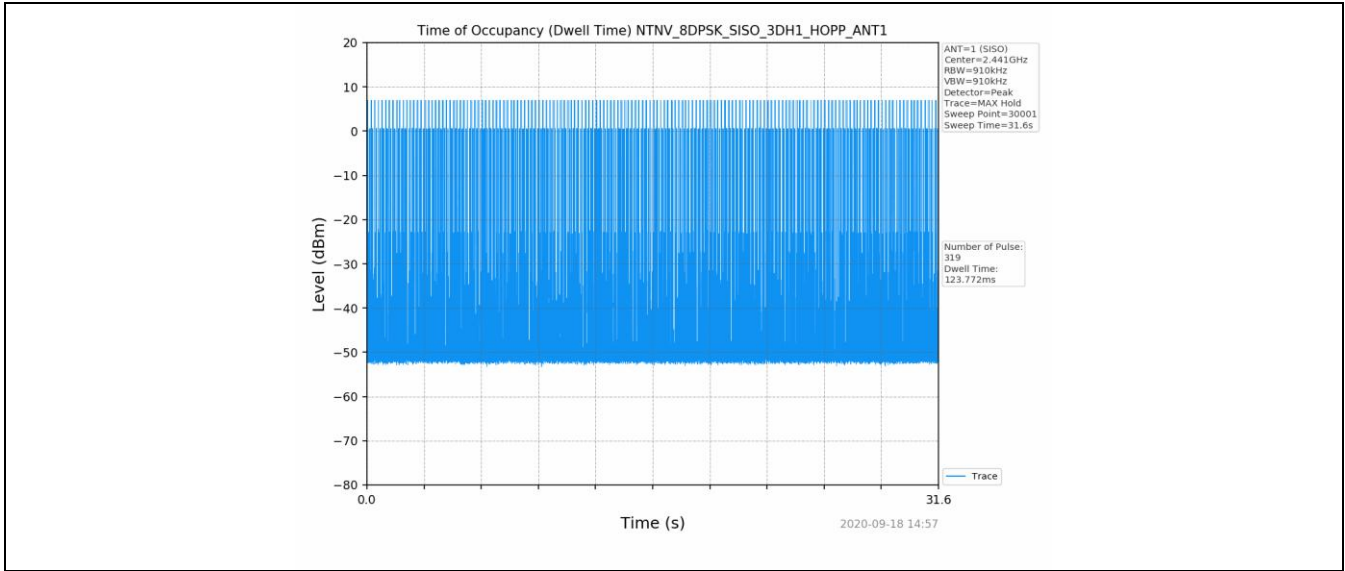
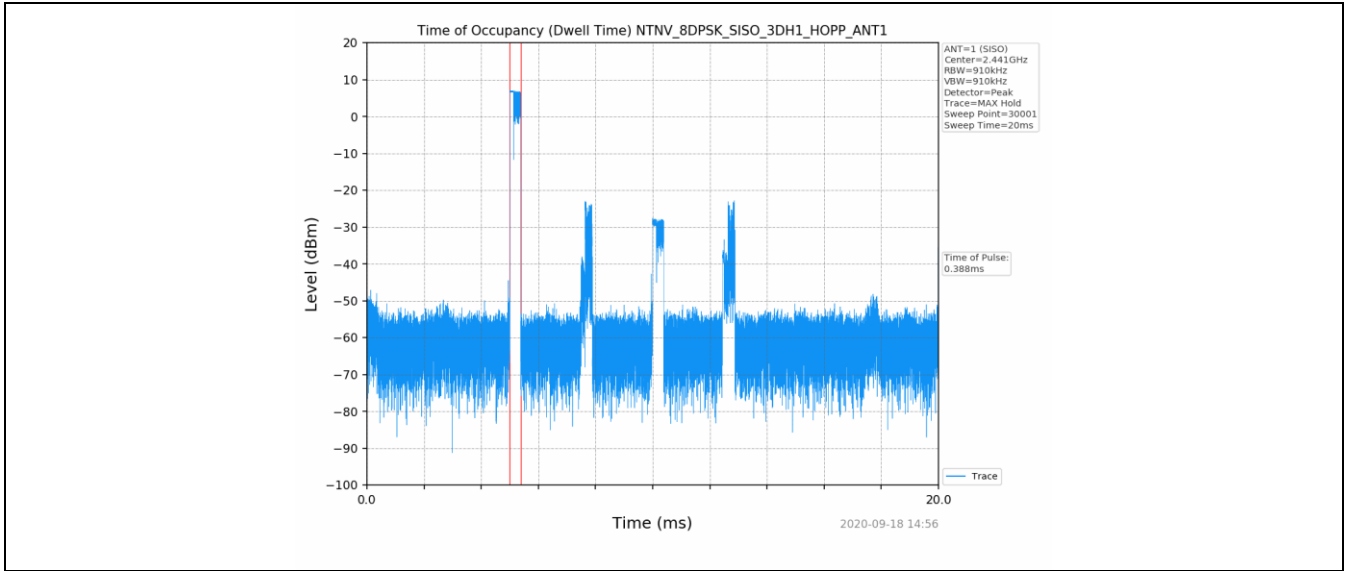


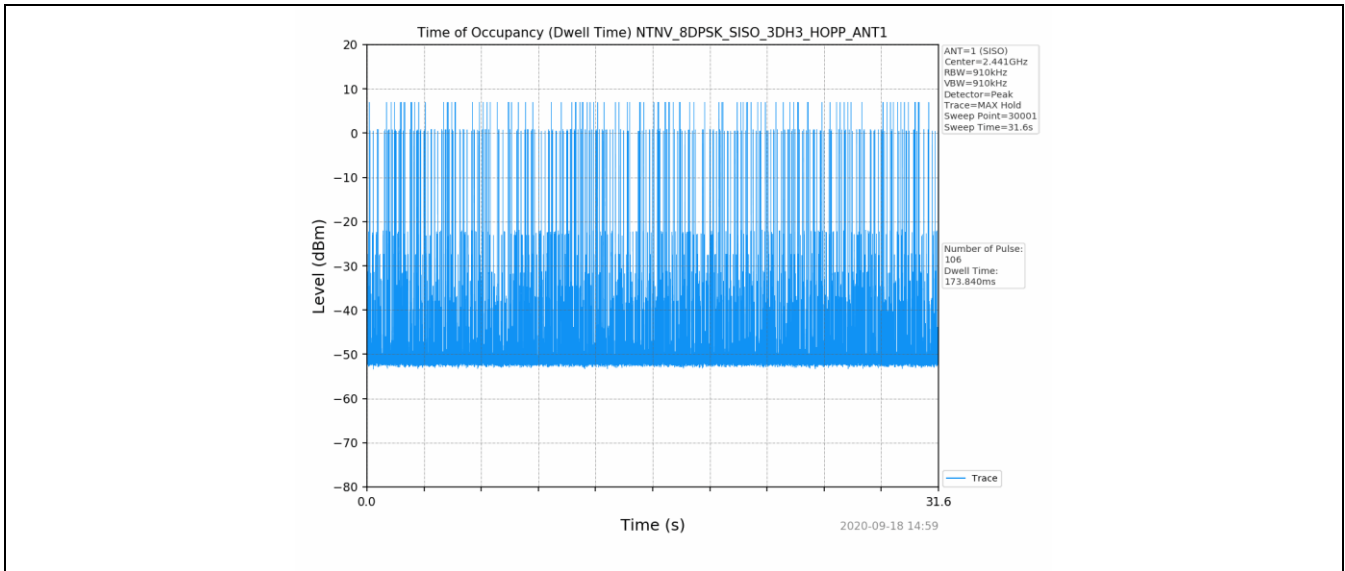
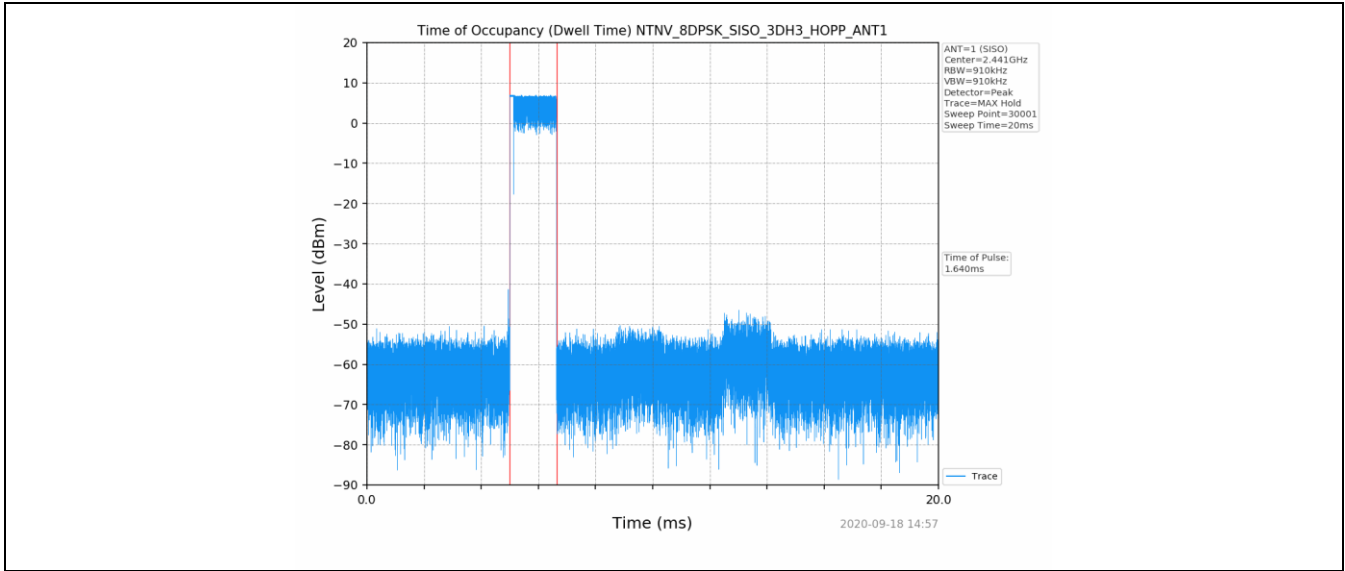


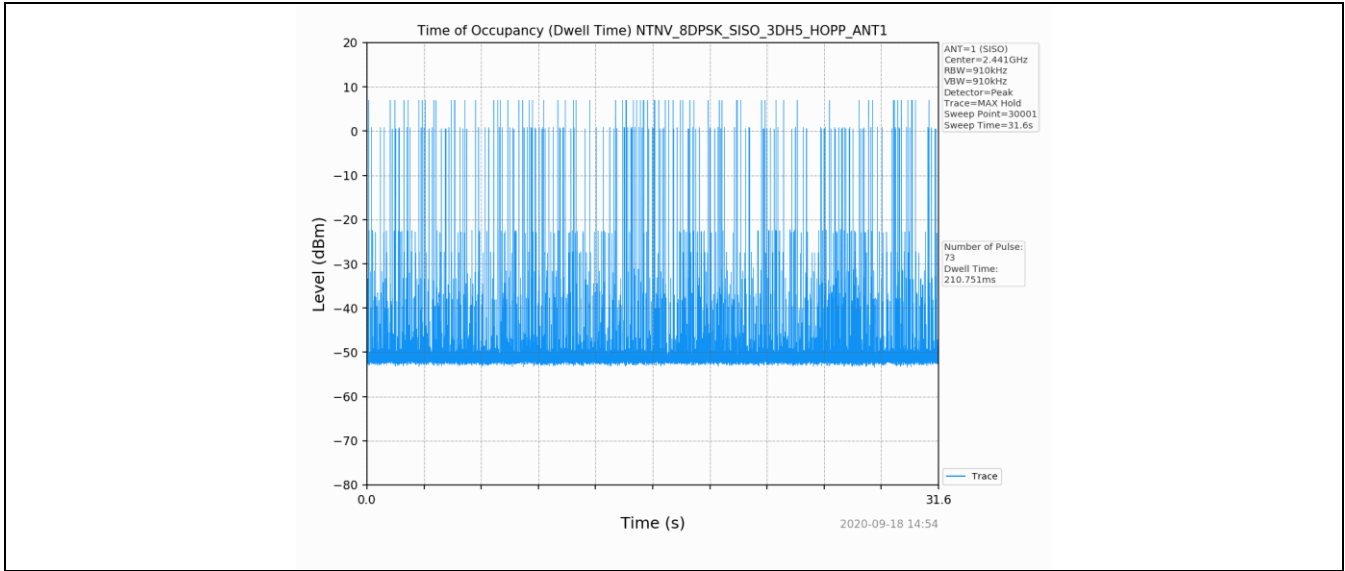
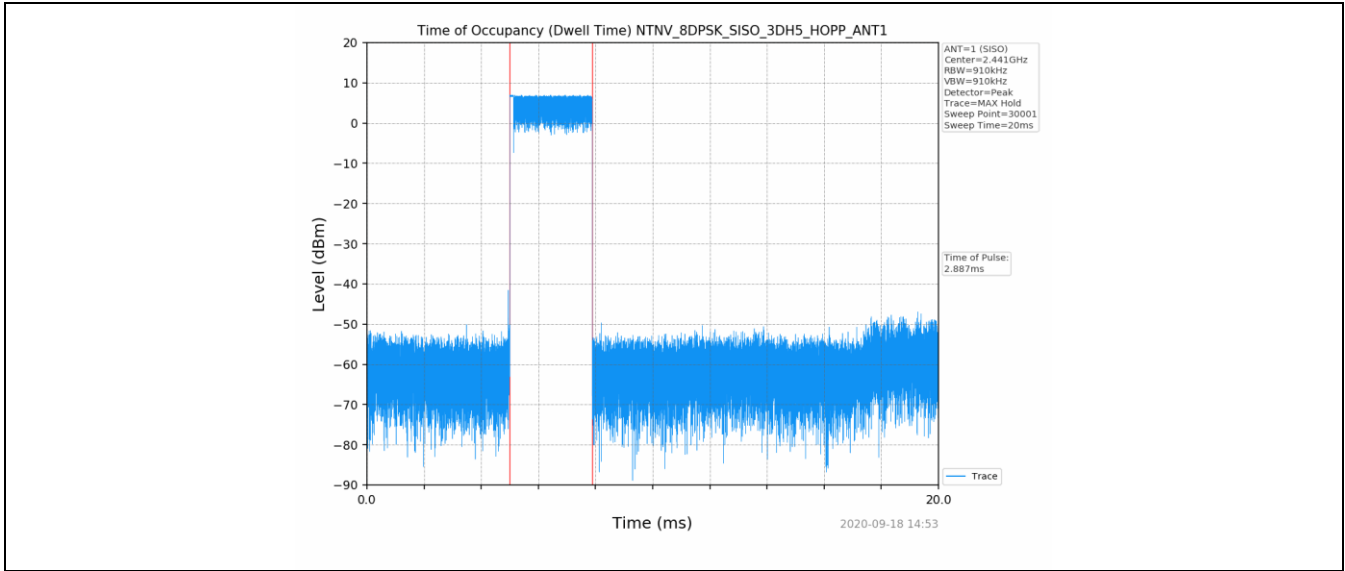












6. Unwanted Emissions in Non-restricted Frequency Bands

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	-12.89	PASS
	2441	SISO	1	Refer to test graph	-12.89	PASS
	2480	SISO	1	Refer to test graph	-12.89	PASS
	Hopping	SISO	1	Refer to test graph	-12.89	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-13.02	PASS
	2441	SISO	1	Refer to test graph	-13.02	PASS
	2480	SISO	1	Refer to test graph	-13.02	PASS
	Hopping	SISO	1	Refer to test graph	-13.02	PASS
8DPSK	2402	SISO	1	Refer to test graph	-12.97	PASS

	2441	SISO	1	Refer to test graph	-12.97	PASS
	2480	SISO	1	Refer to test graph	-12.97	PASS
	Hopping	SISO	1	Refer to test graph	-12.97	PASS

6.2 Test Graph

