



Appendix for SHEM2012010711CR -BT-L

Power level setting using in test:

Channel	DH5	2DH5	3DH5
0	46	46	46
39	46	46	46
78	46	46	46

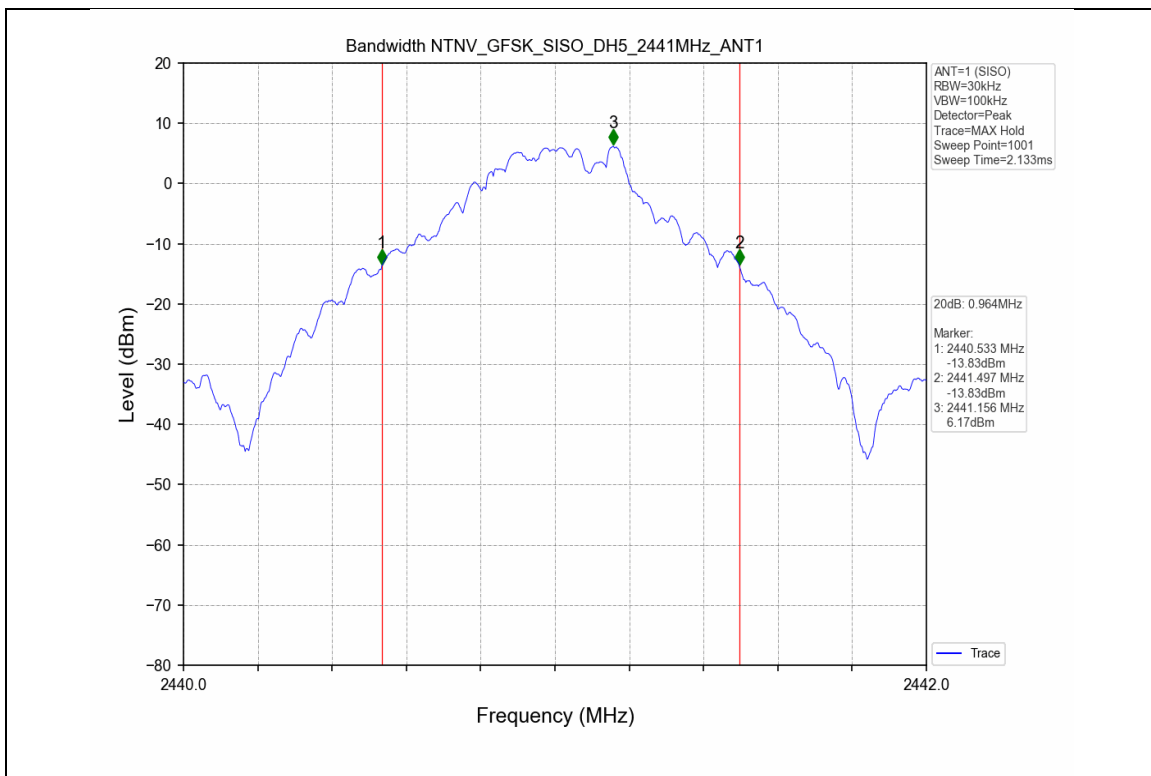
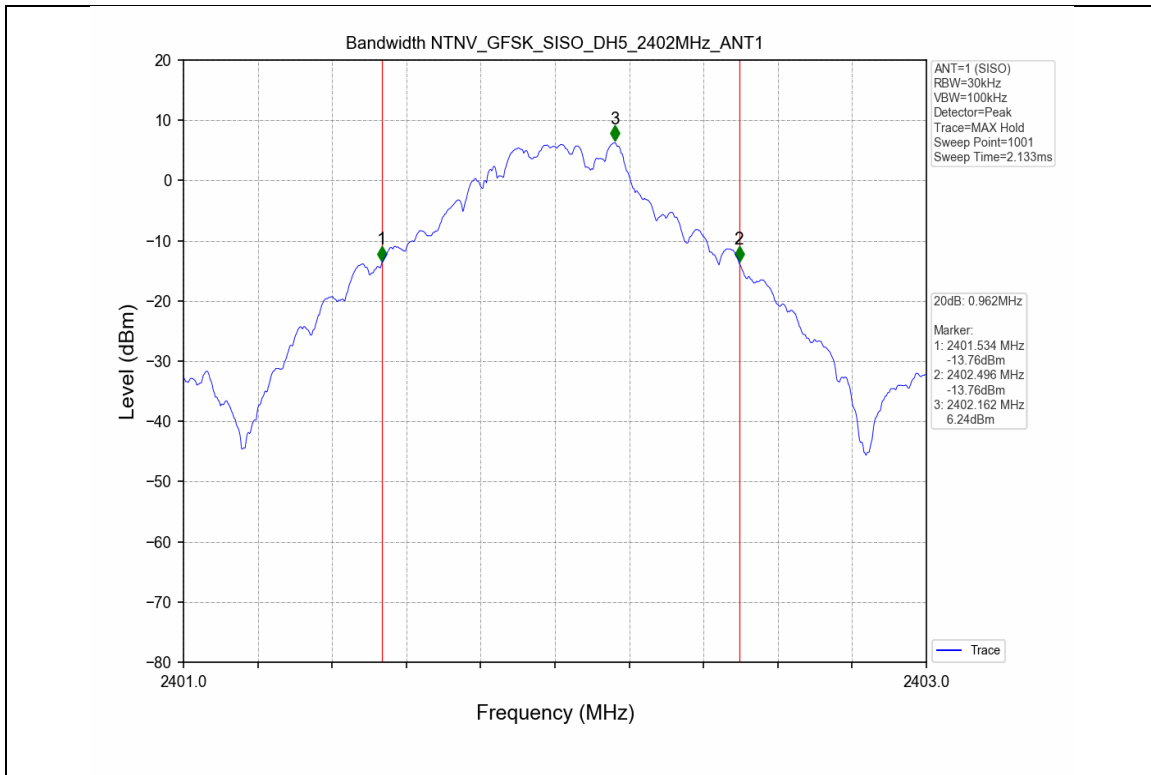
1. Bandwidth

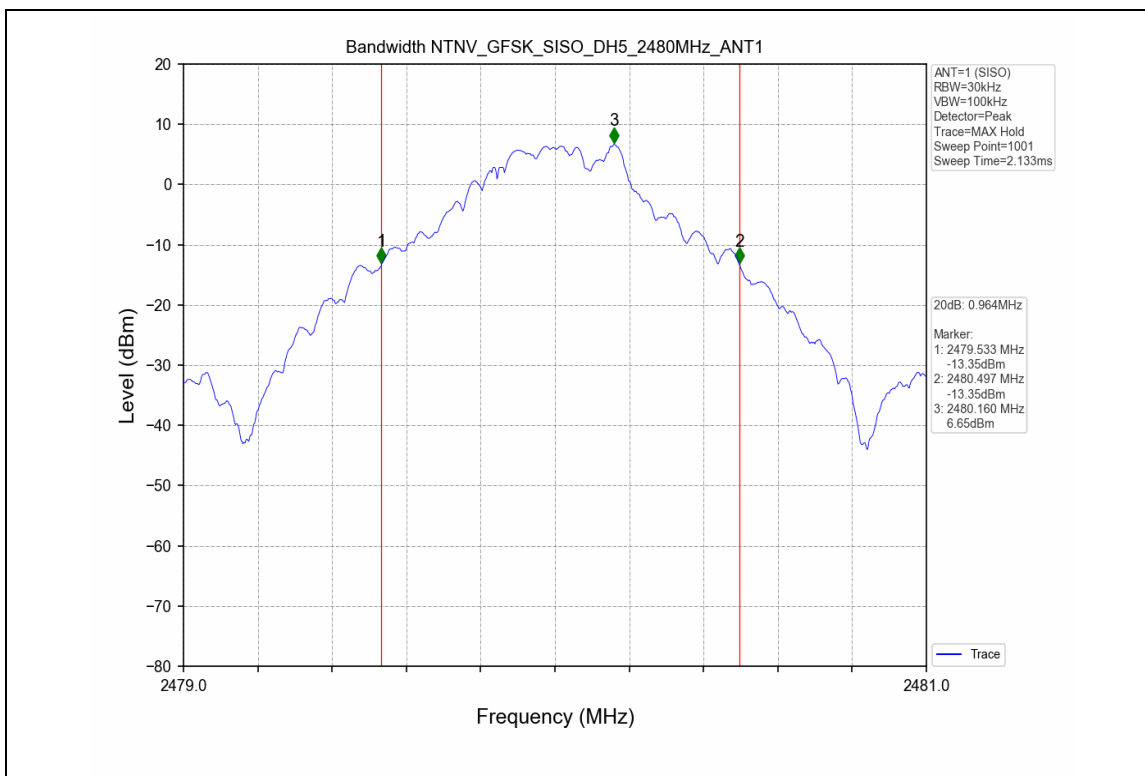
1.1 Test Result

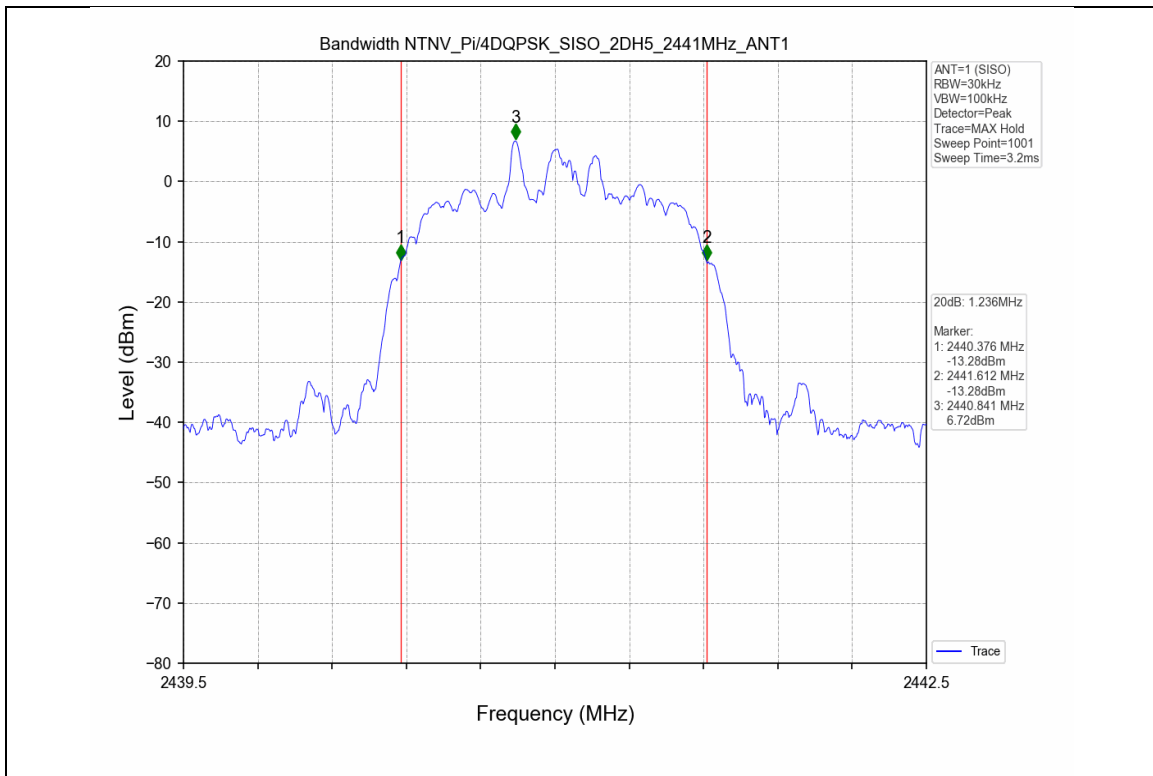
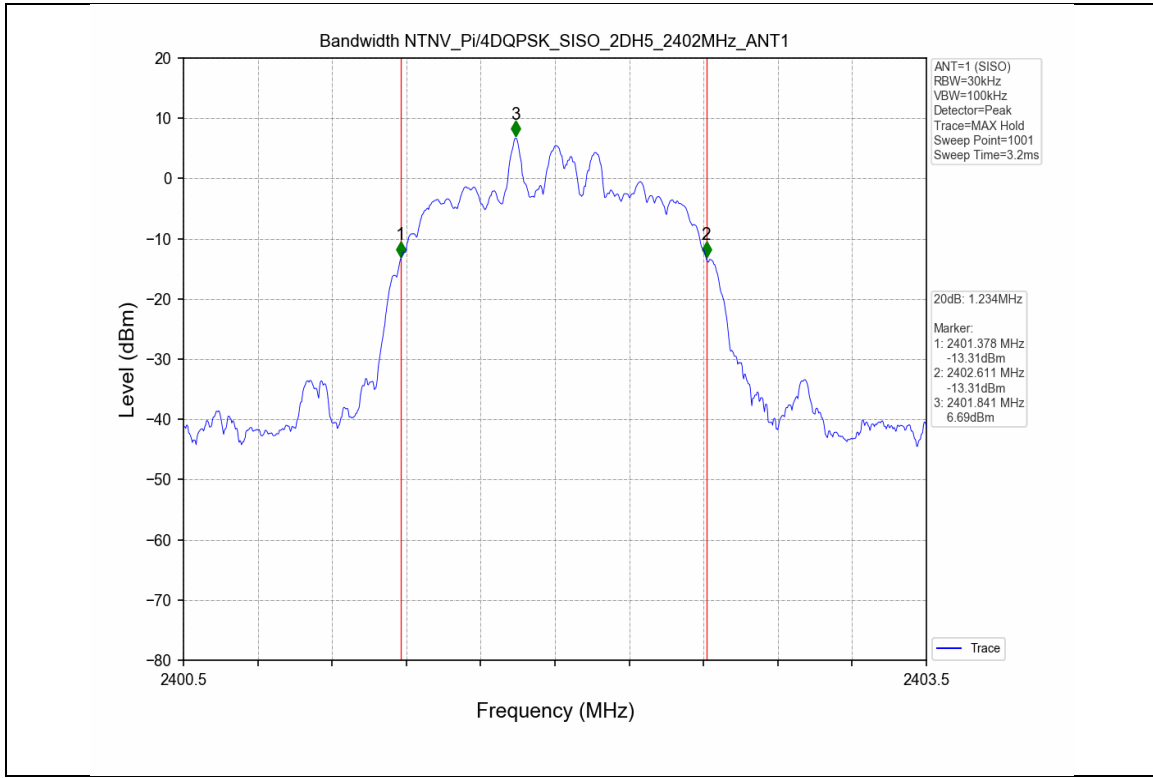
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.962	PASS
	2441	SISO	1	0.964	PASS
	2480	SISO	1	0.964	PASS
Pi/4DQPSK	2402	SISO	1	1.234	PASS
	2441	SISO	1	1.236	PASS
	2480	SISO	1	1.234	PASS
8DPSK	2402	SISO	1	1.285	PASS
	2441	SISO	1	1.277	PASS
	2480	SISO	1	1.279	PASS

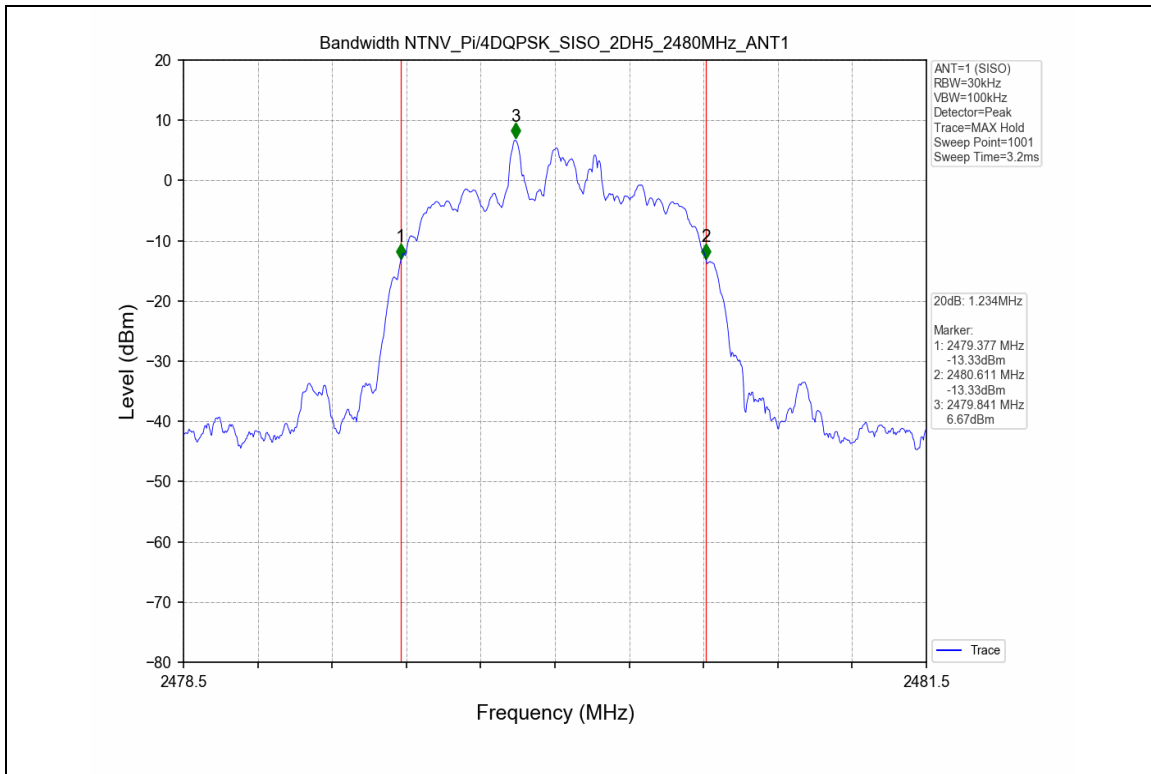
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.892	Only for Report Use
	2441	SISO	1	0.887	Only for Report Use
	2480	SISO	1	0.884	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.158	Only for Report Use
	2441	SISO	1	1.157	Only for Report Use
	2480	SISO	1	1.155	Only for Report Use
8DPSK	2402	SISO	1	1.164	Only for Report Use
	2441	SISO	1	1.160	Only for Report Use
	2480	SISO	1	1.160	Only for Report Use

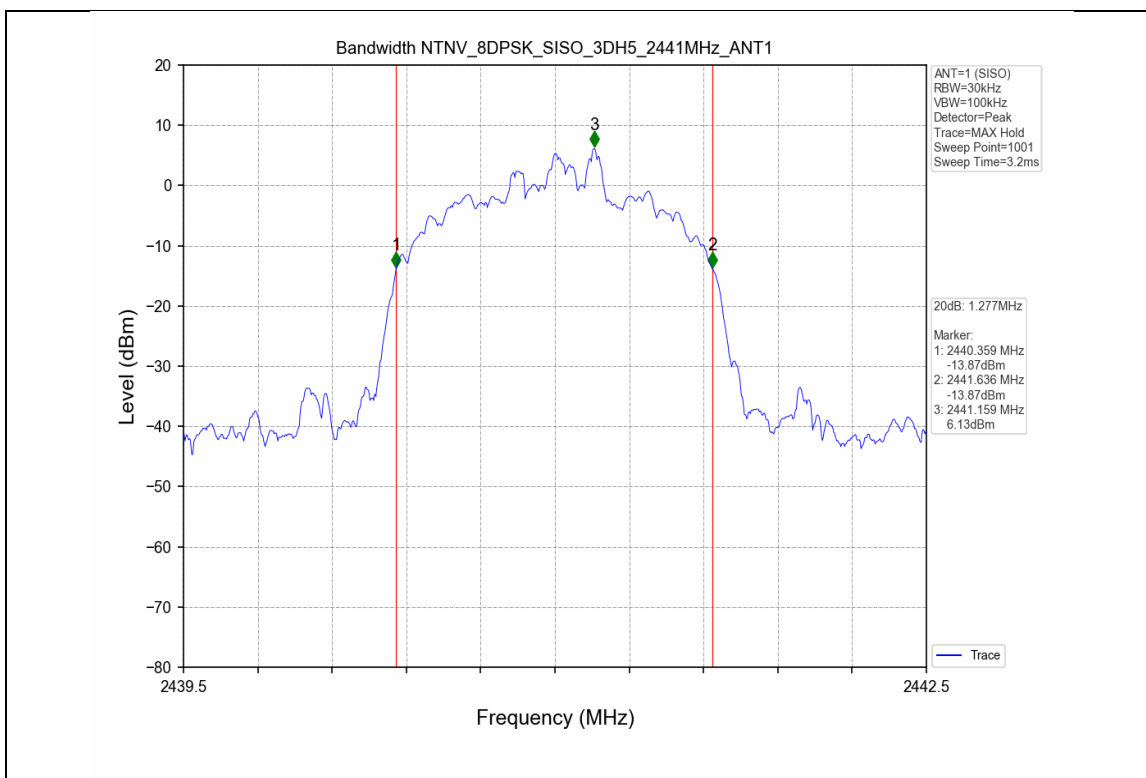
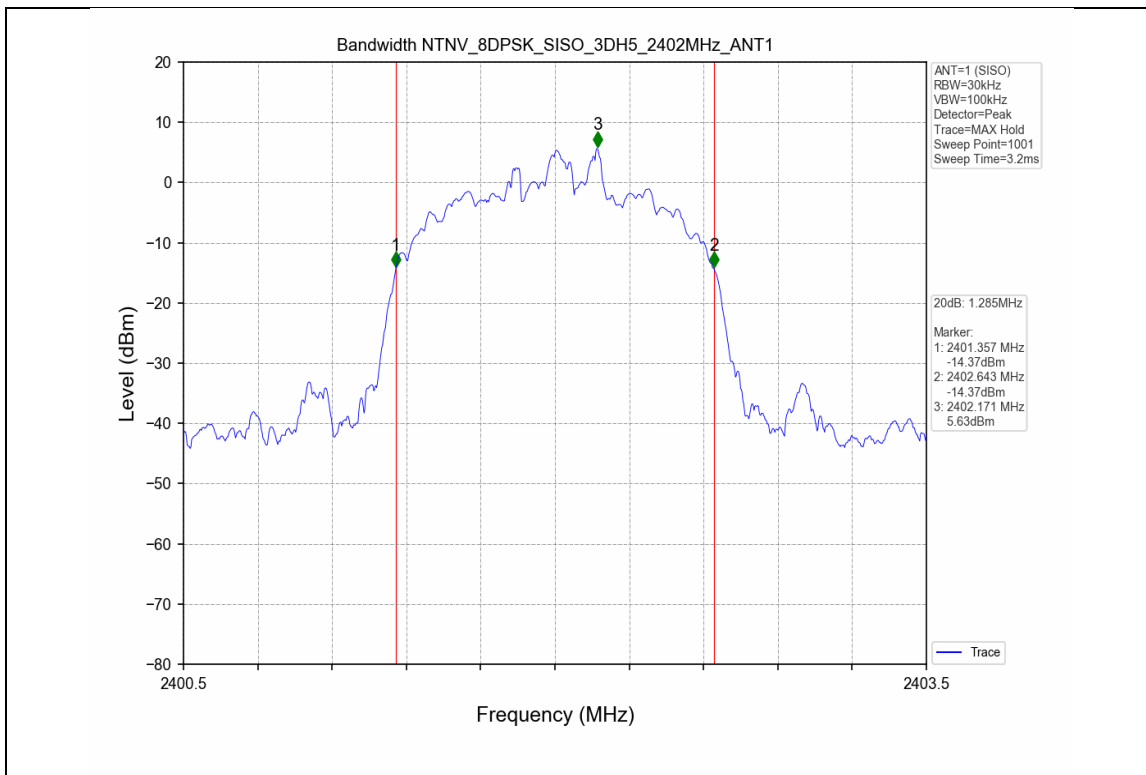
1.2 Test Graph - 20dB Bandwidth

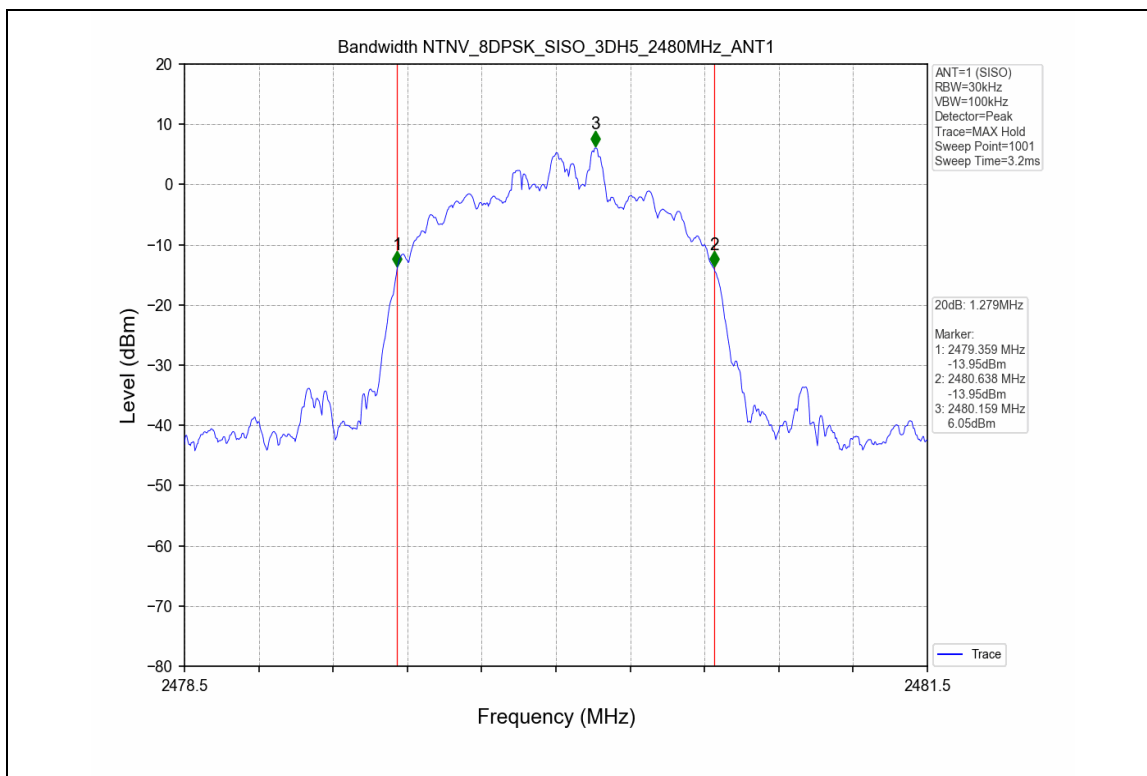




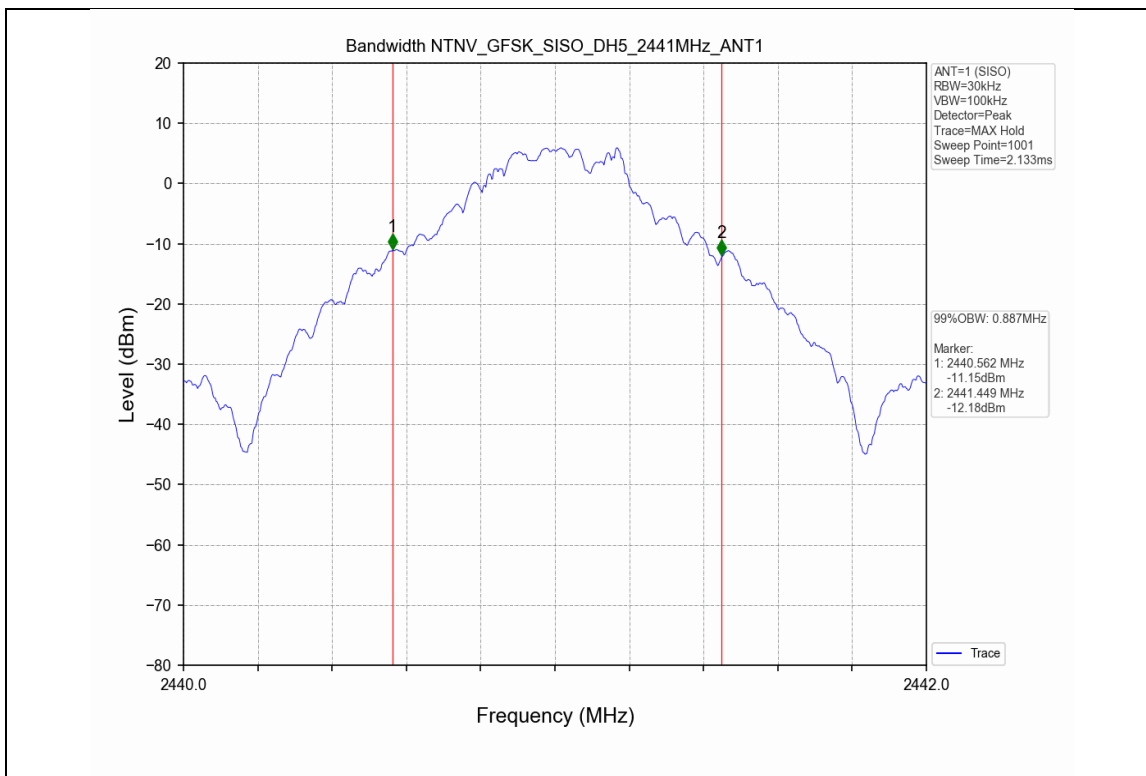
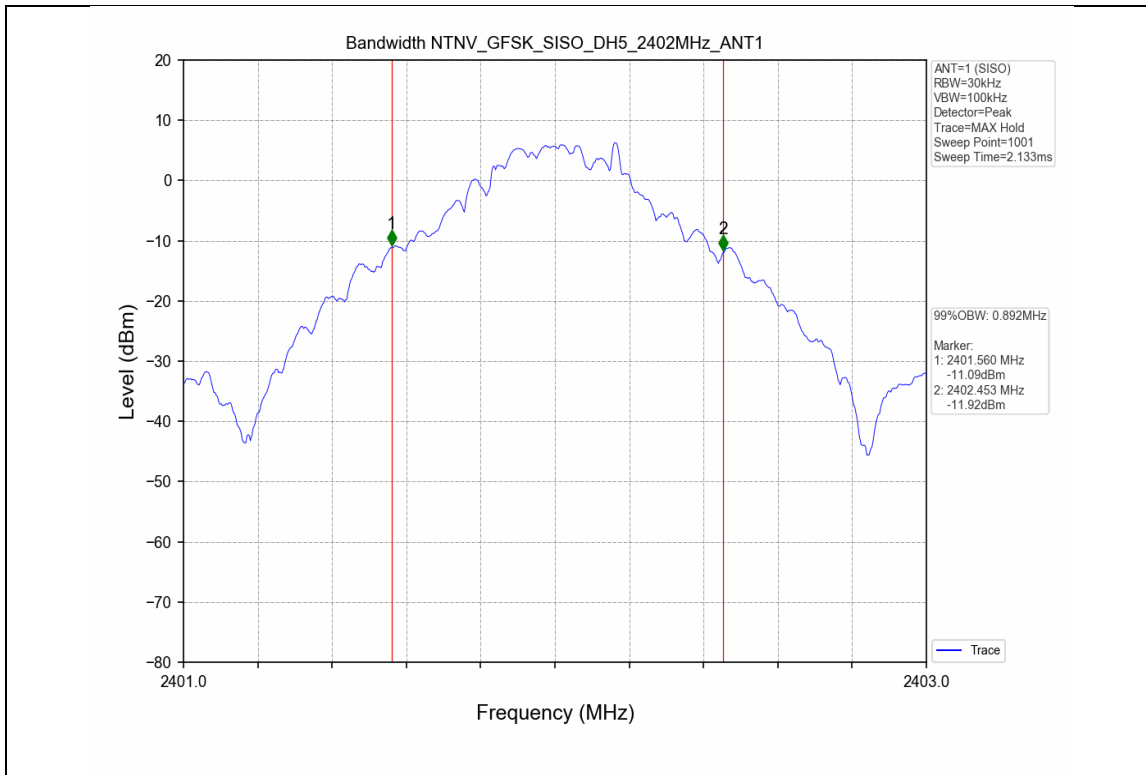


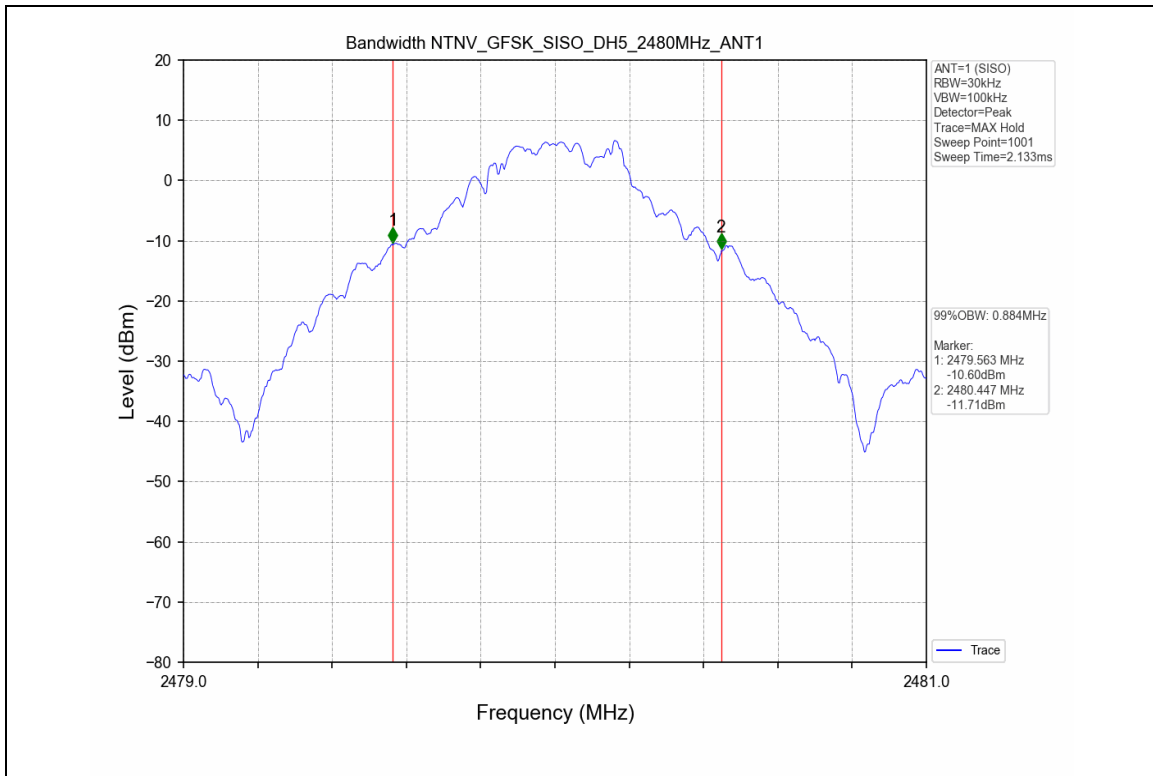


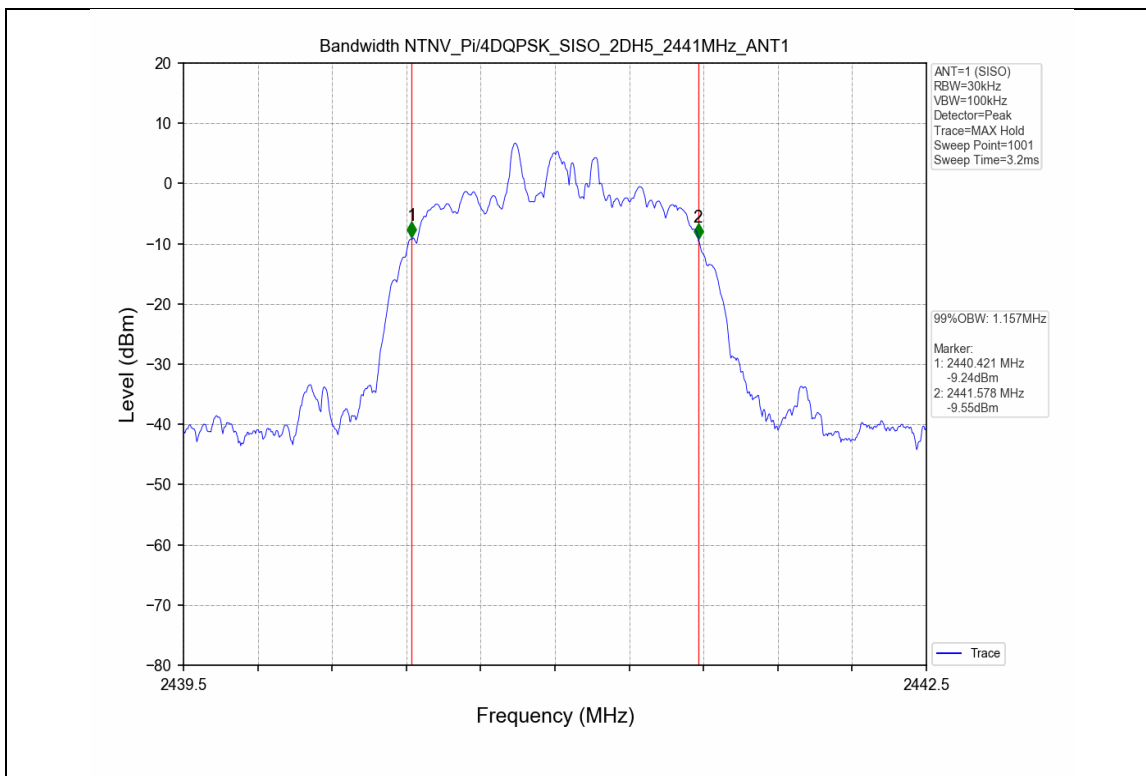
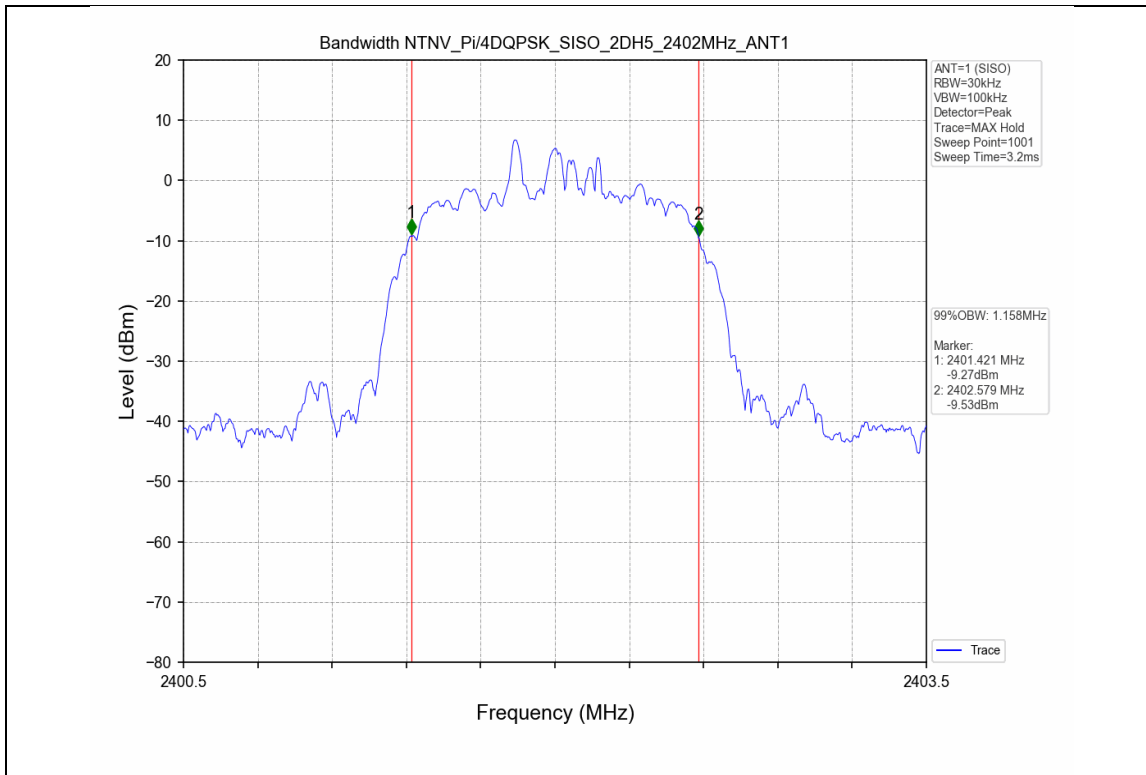


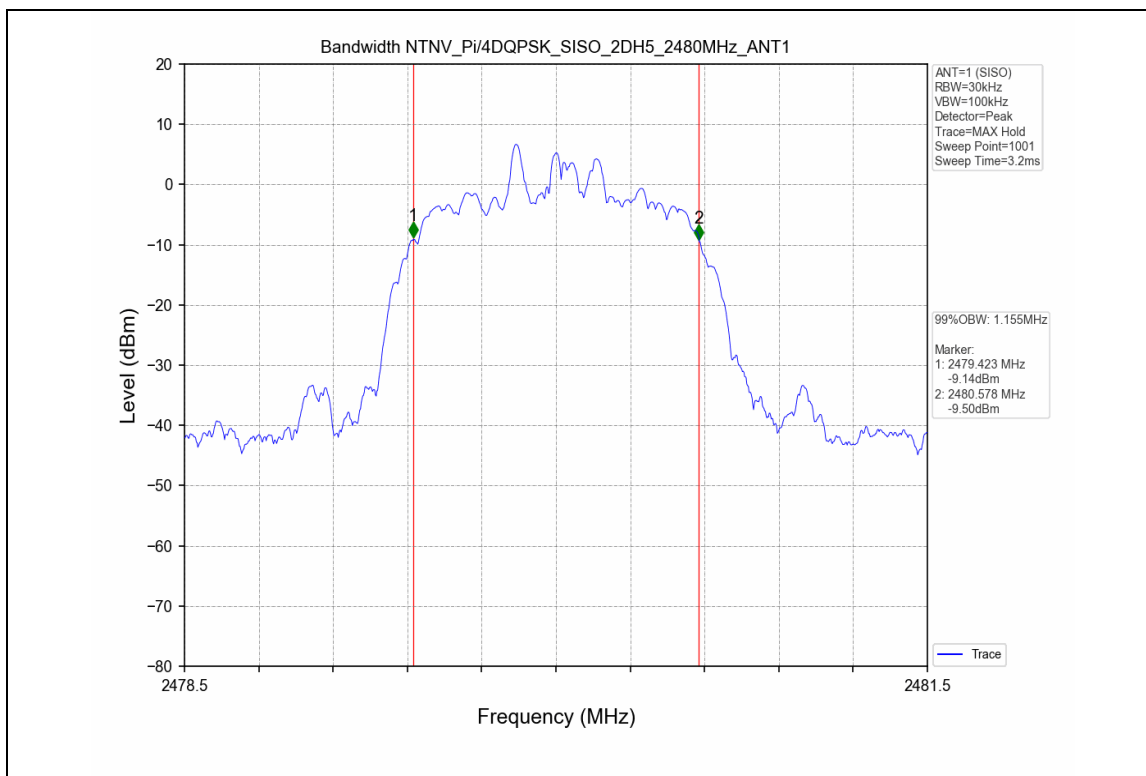


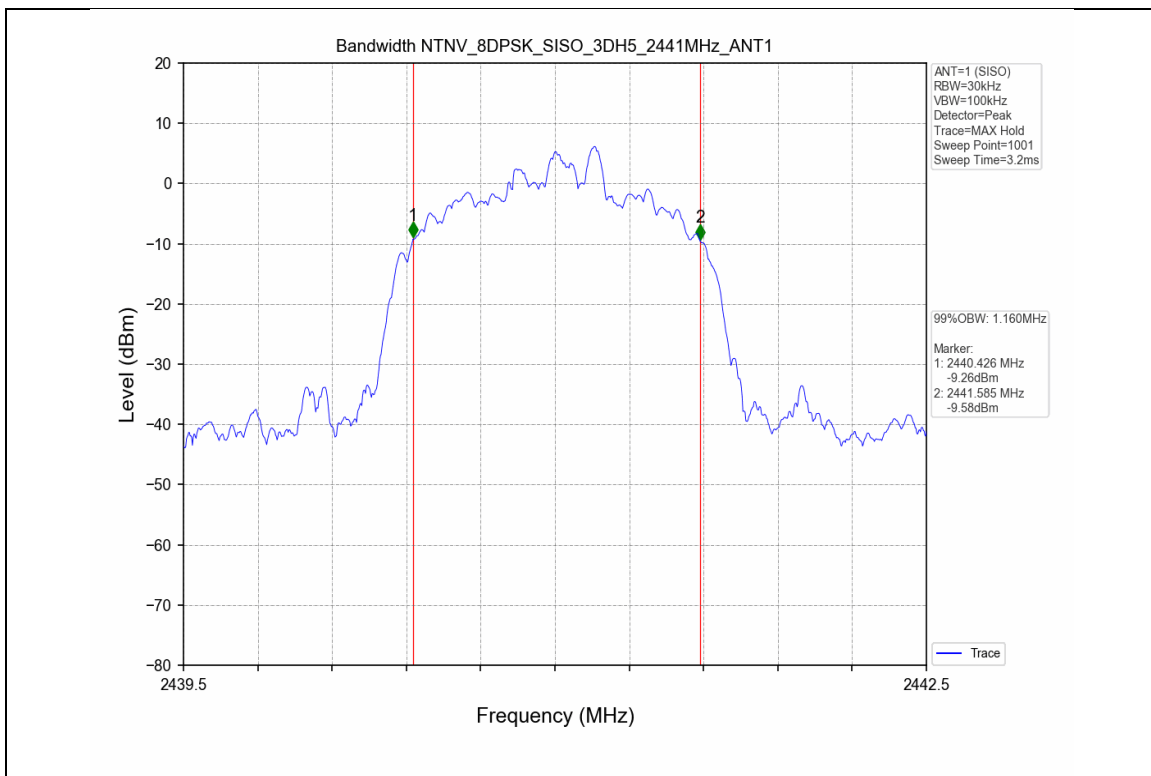
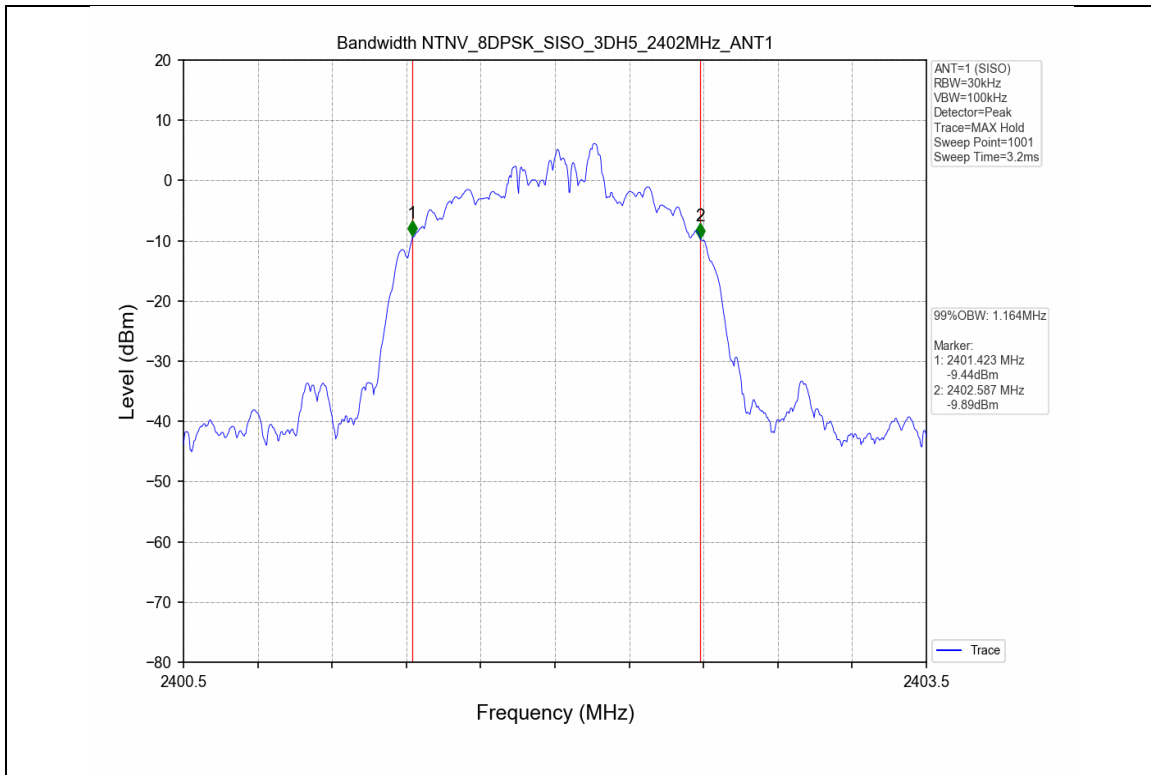
1.3 Test Graph - 99% Occupied Bandwidth

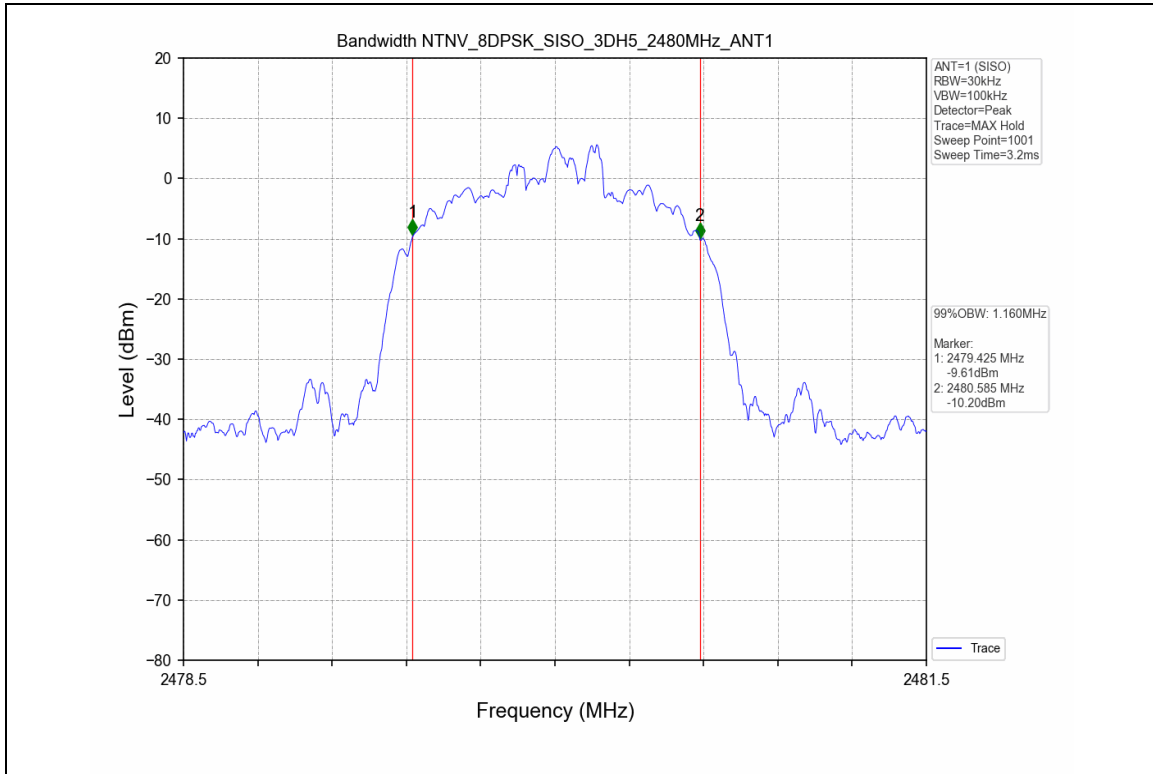










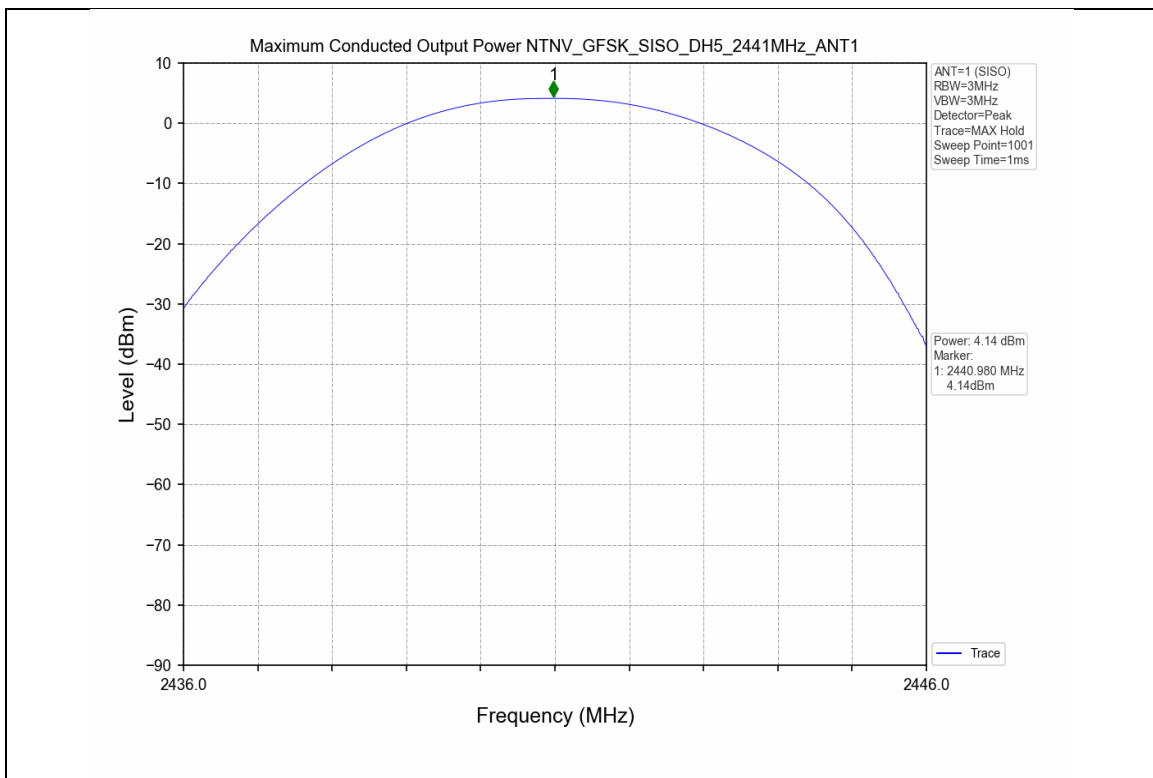
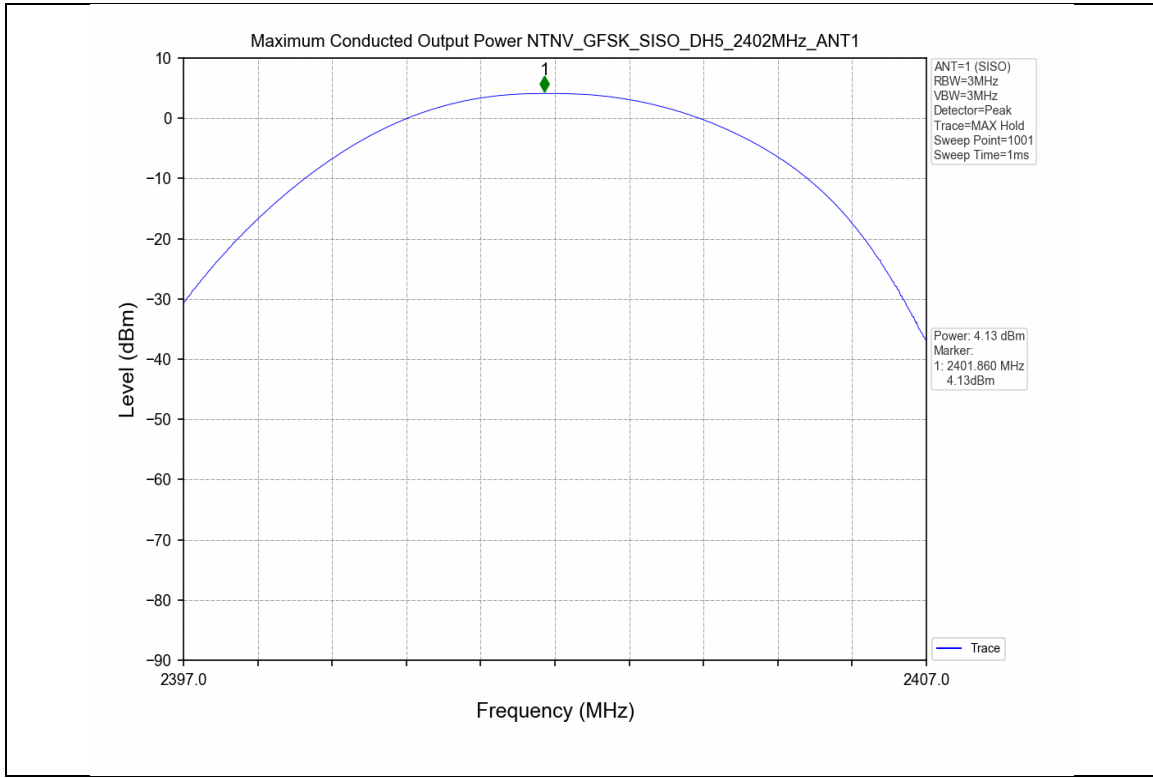


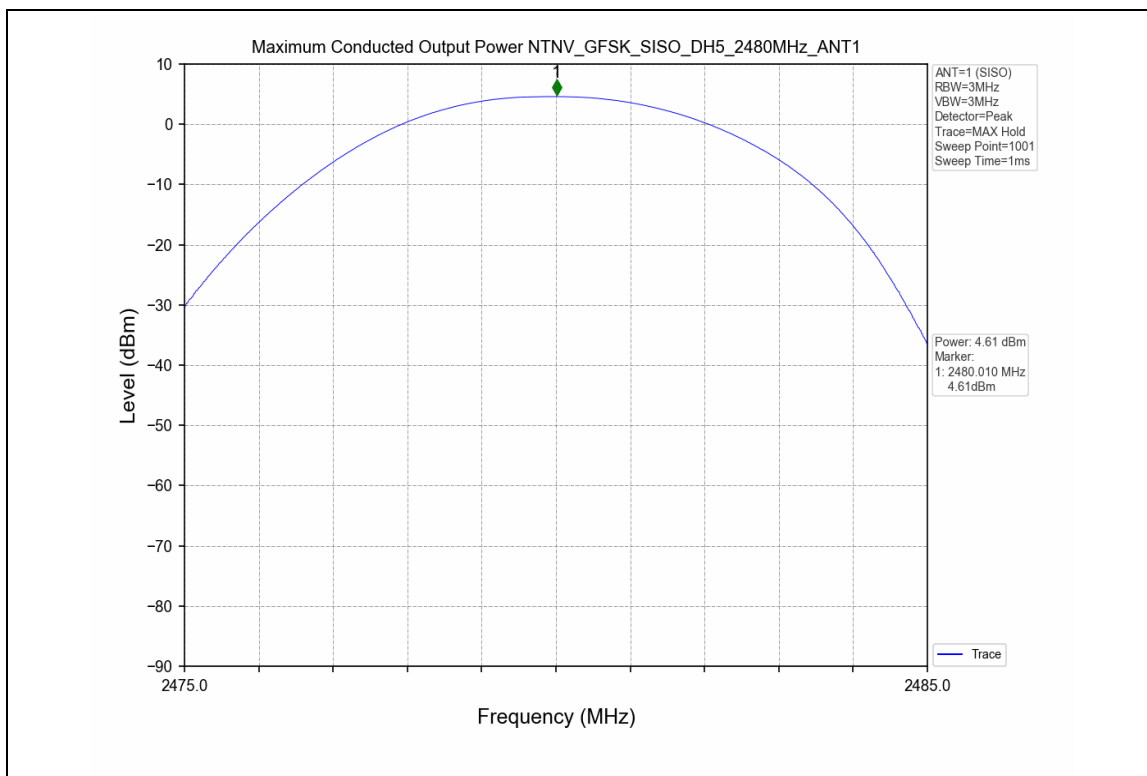
2. Maximum Conducted Output Power

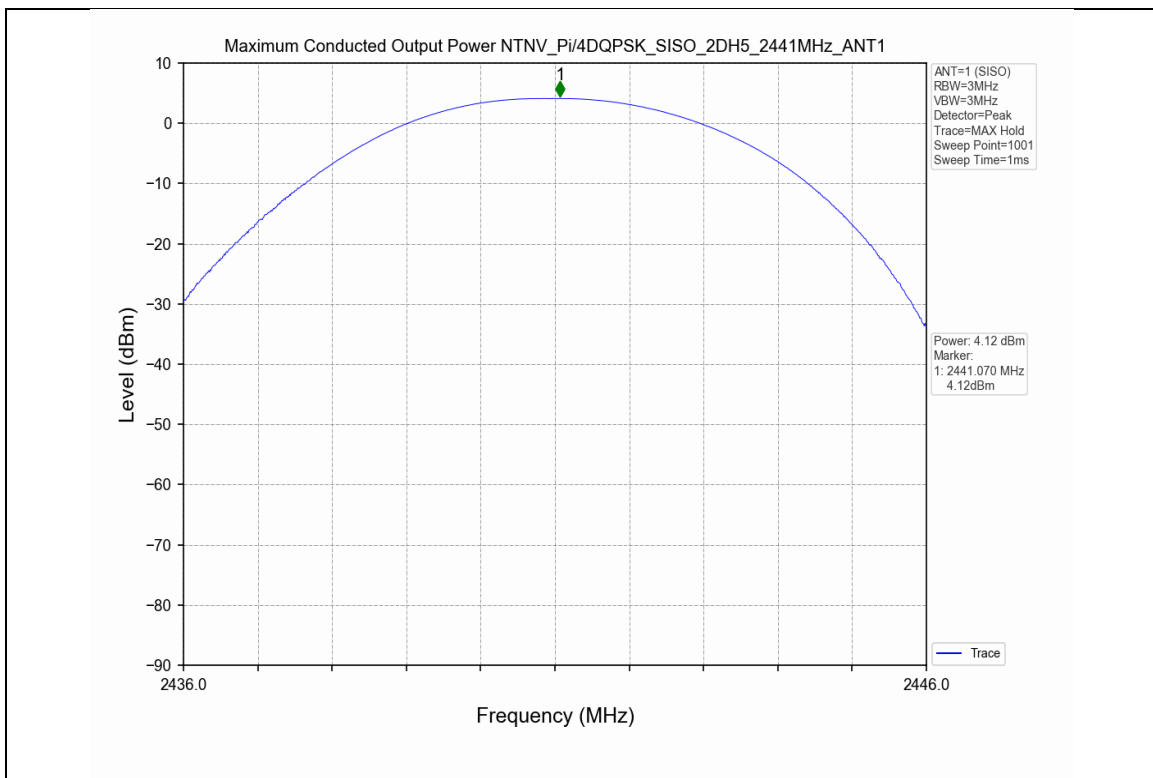
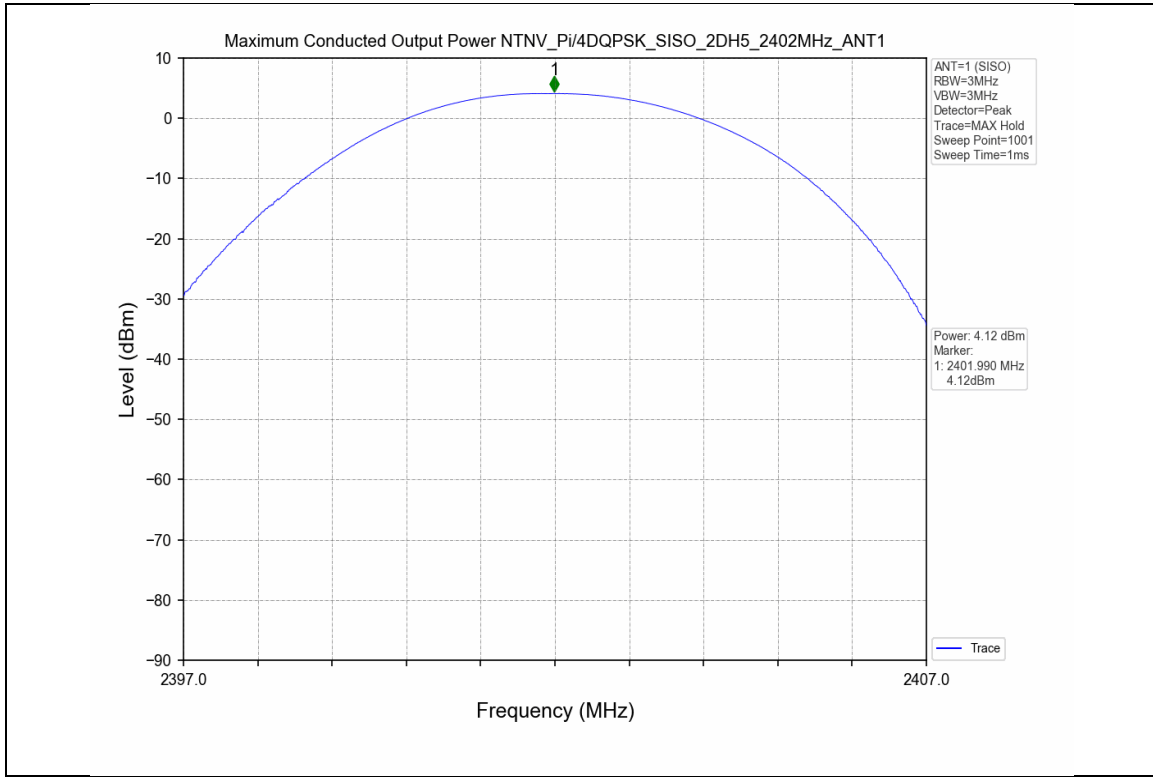
2.1 Test Result

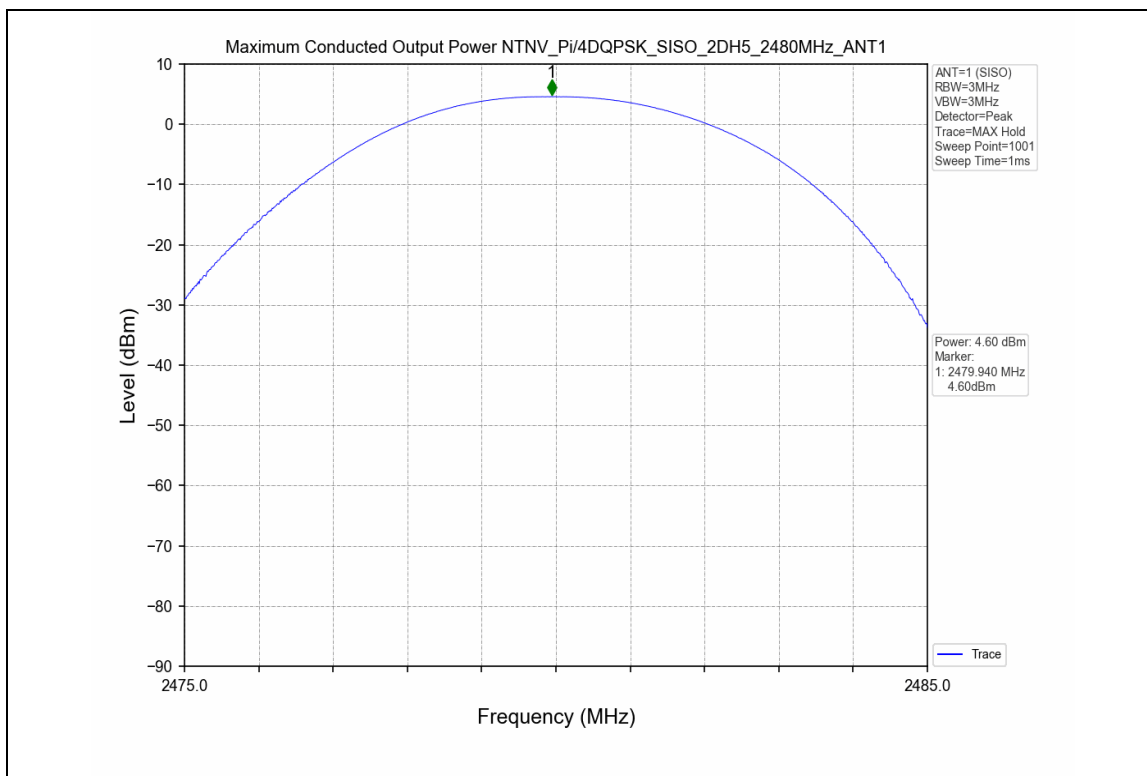
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	4.13	30	PASS
	2441	SISO	4.14	30	PASS
	2480	SISO	4.61	30	PASS
Pi/4DQPSK	2402	SISO	4.12	20.97	PASS
	2441	SISO	4.12	20.97	PASS
	2480	SISO	4.60	20.97	PASS
8DPSK	2402	SISO	4.29	20.97	PASS
	2441	SISO	4.32	20.97	PASS
	2480	SISO	4.77	20.97	PASS

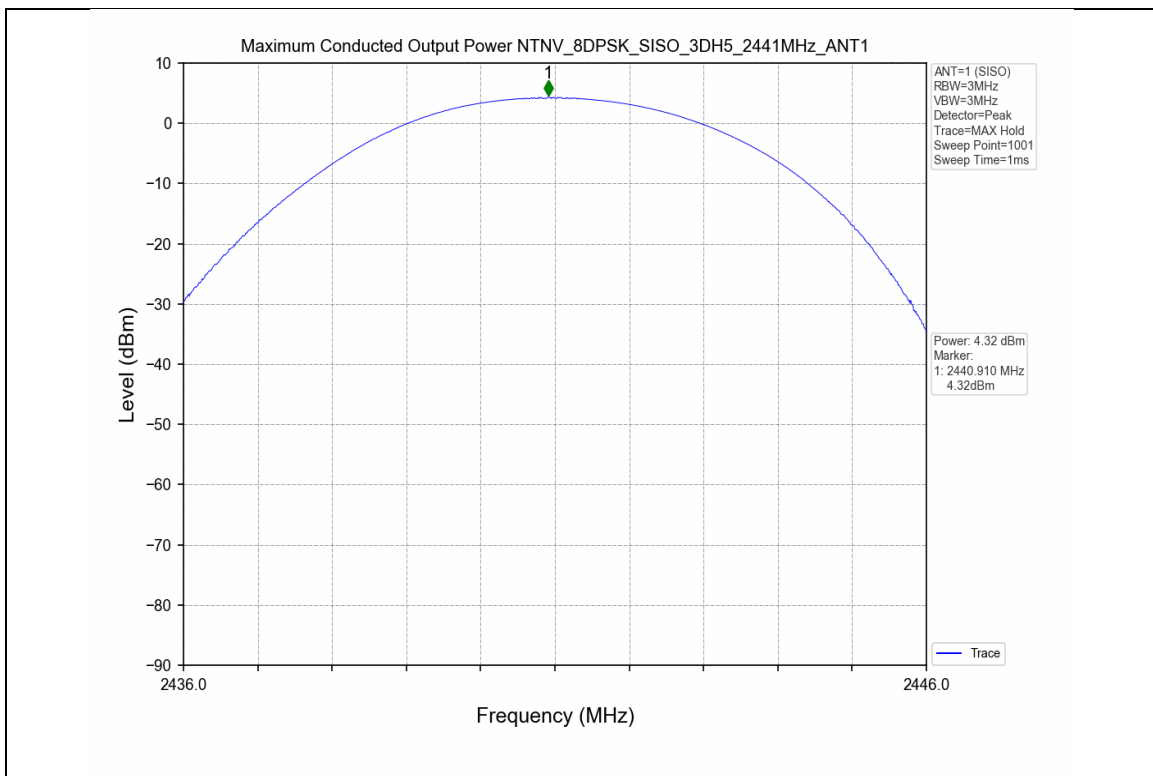
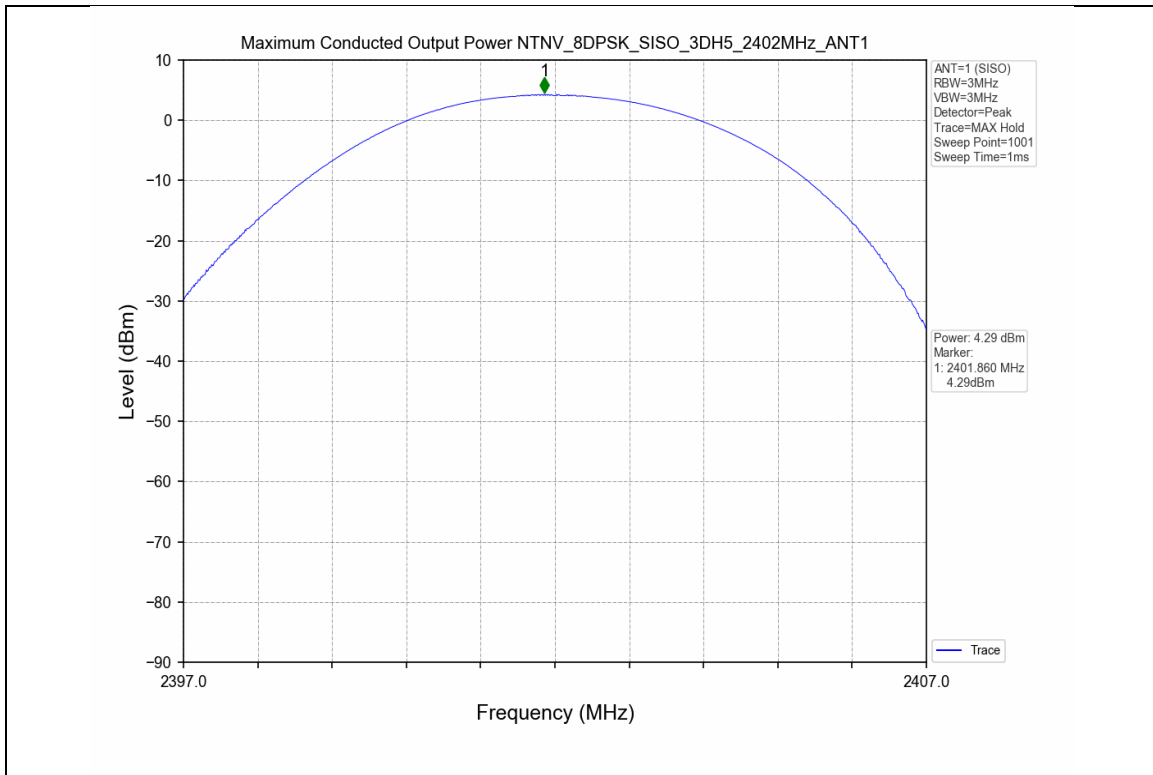
2.2 Test Graph

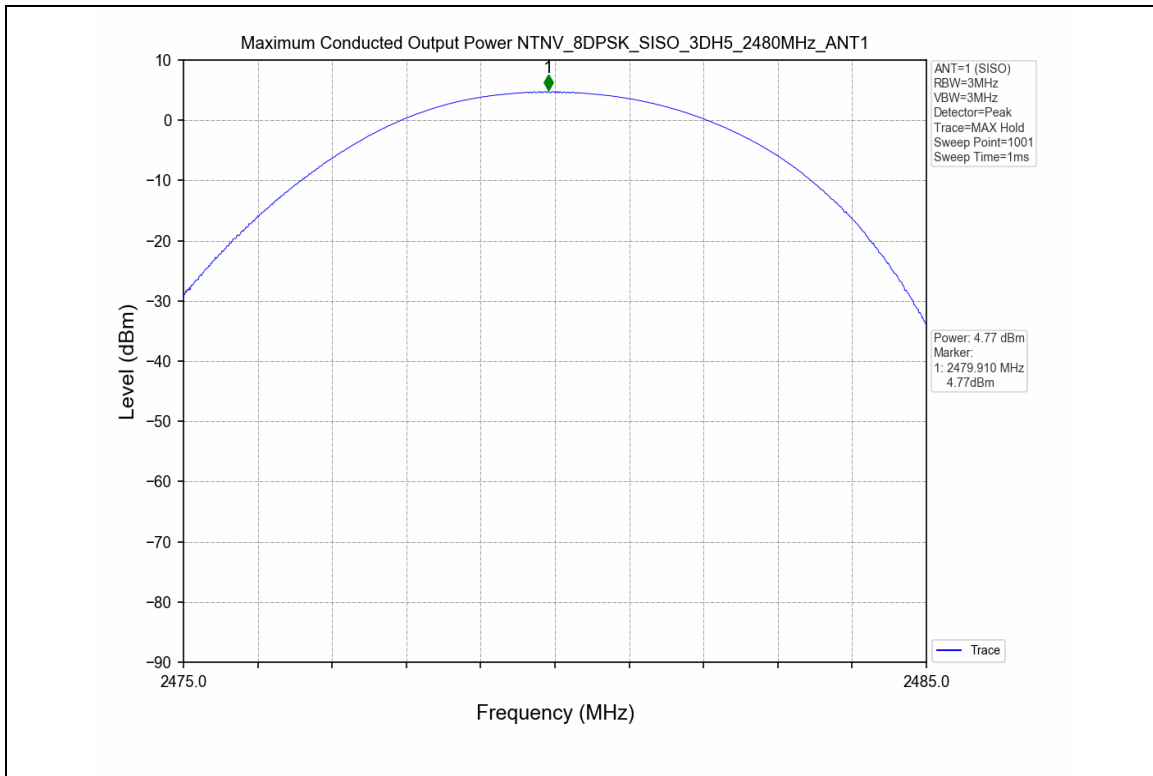










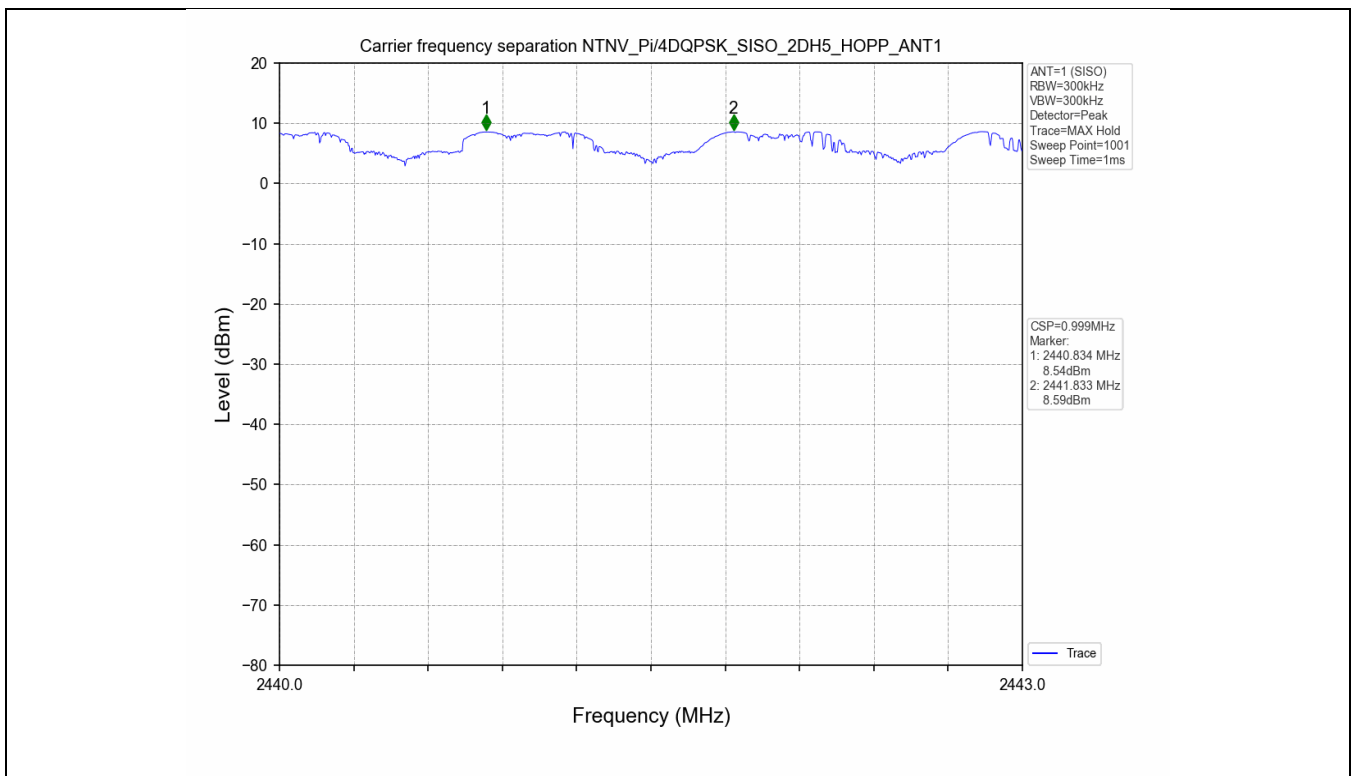
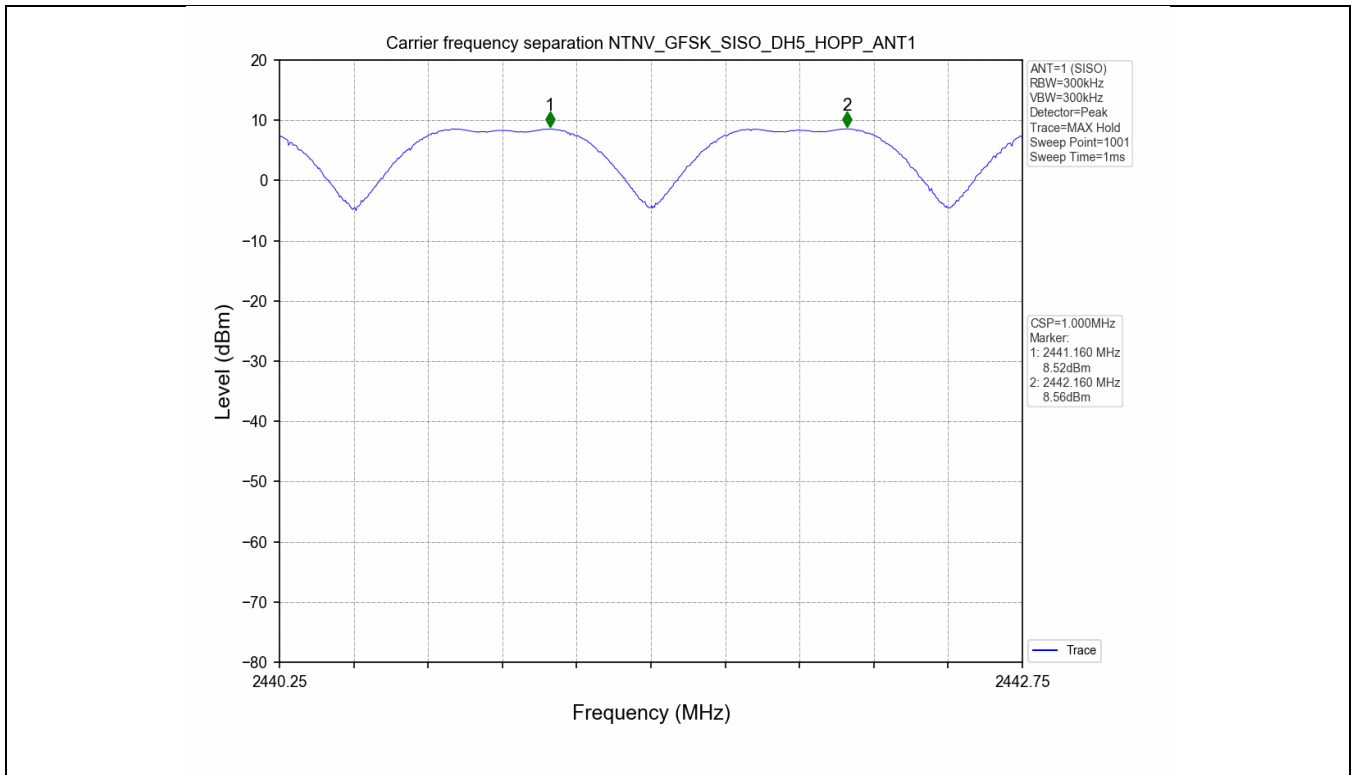


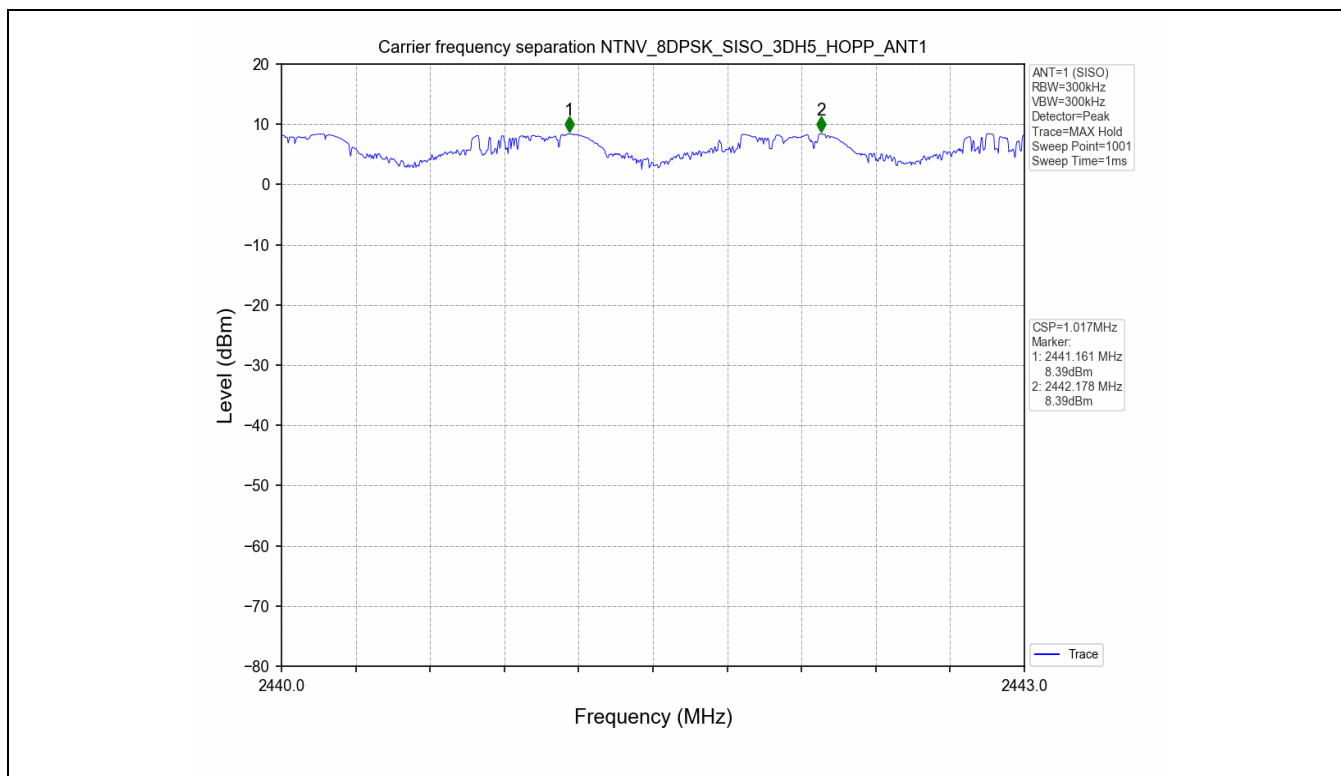
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.000	0.964	≥ 0.964	PASS
Pi/4DQPSK	SISO	1	0.999	1.236	≥ 0.824	PASS
8DPSK	SISO	1	1.017	1.285	≥ 0.857	PASS

3.2 Test Graph



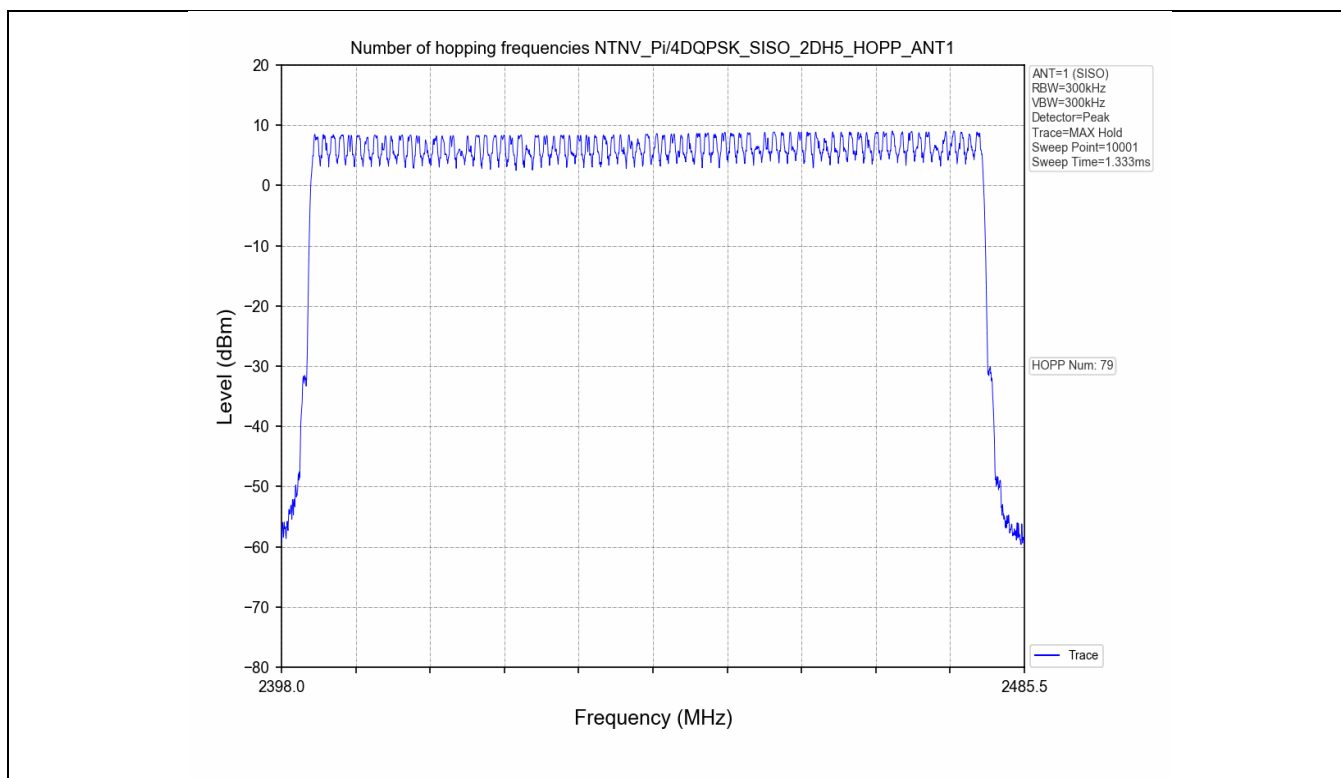
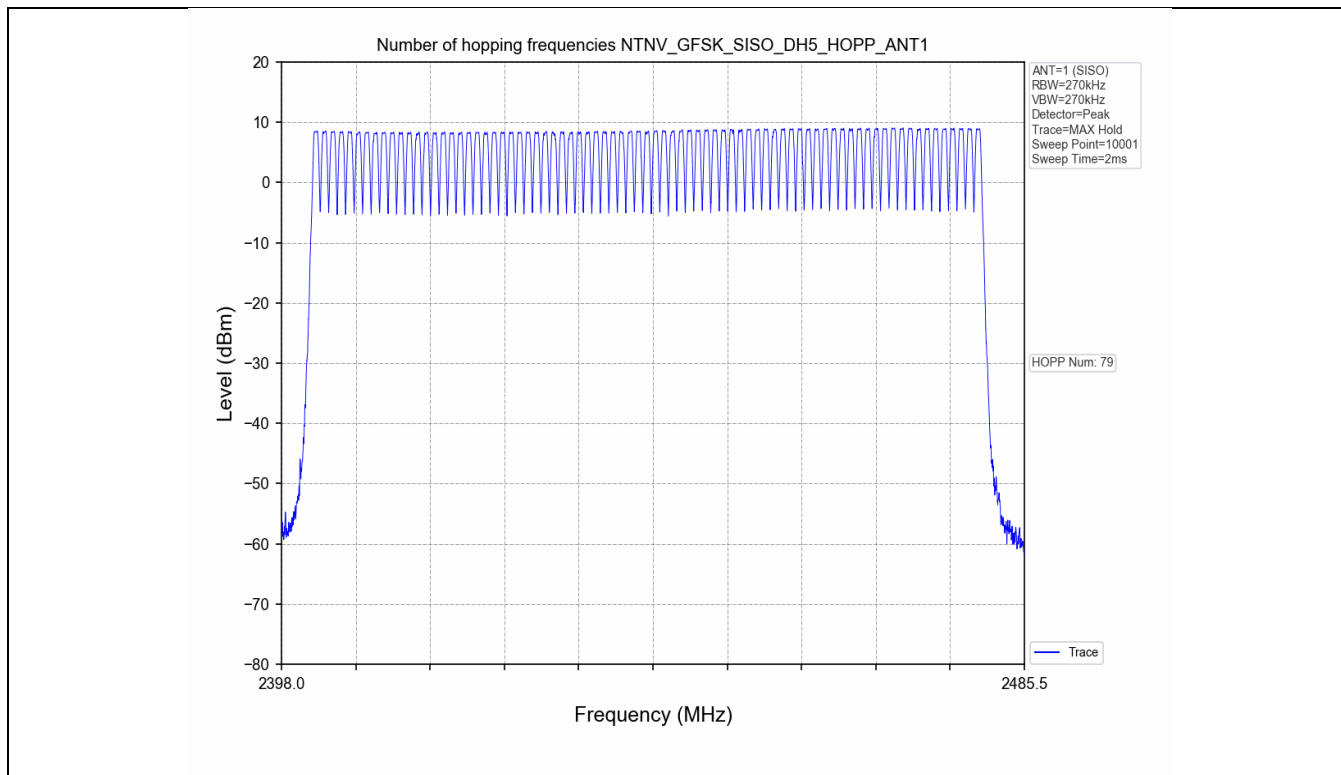


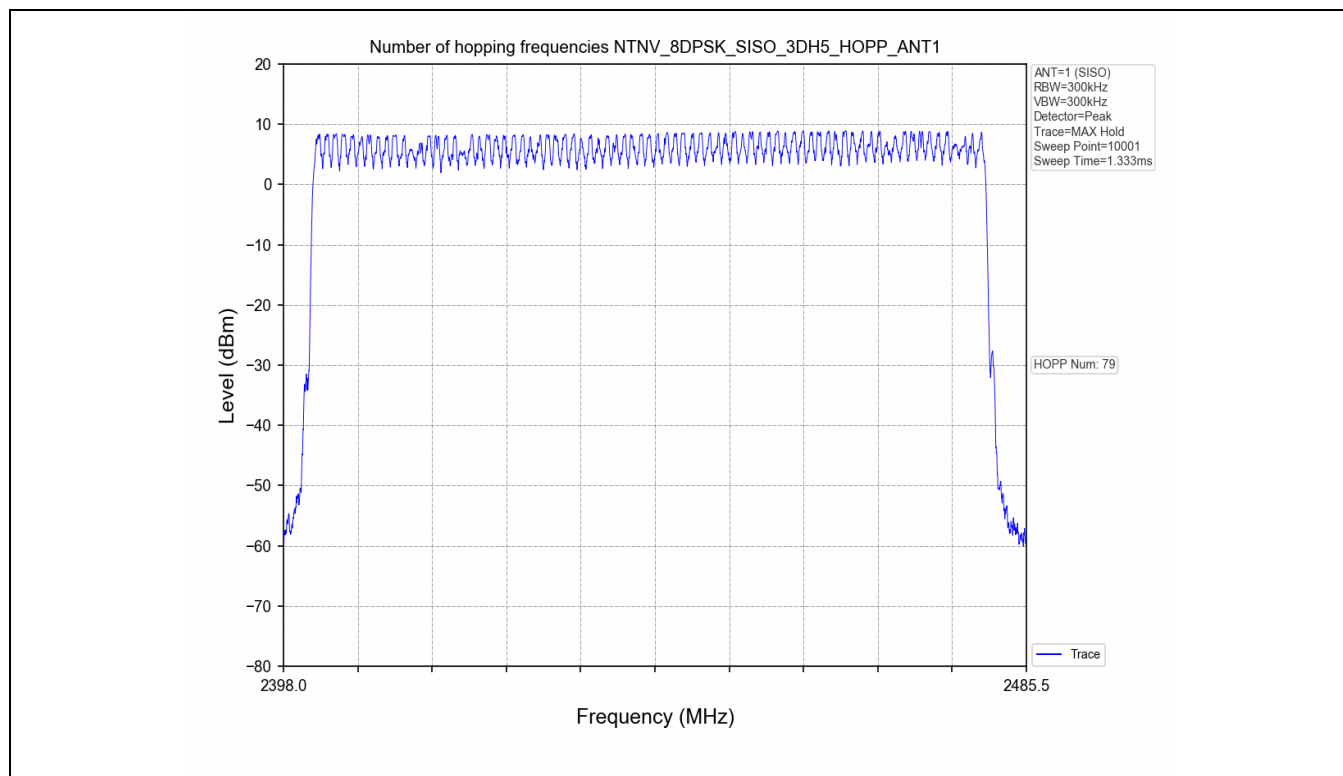
4. Number of hopping frequencies

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



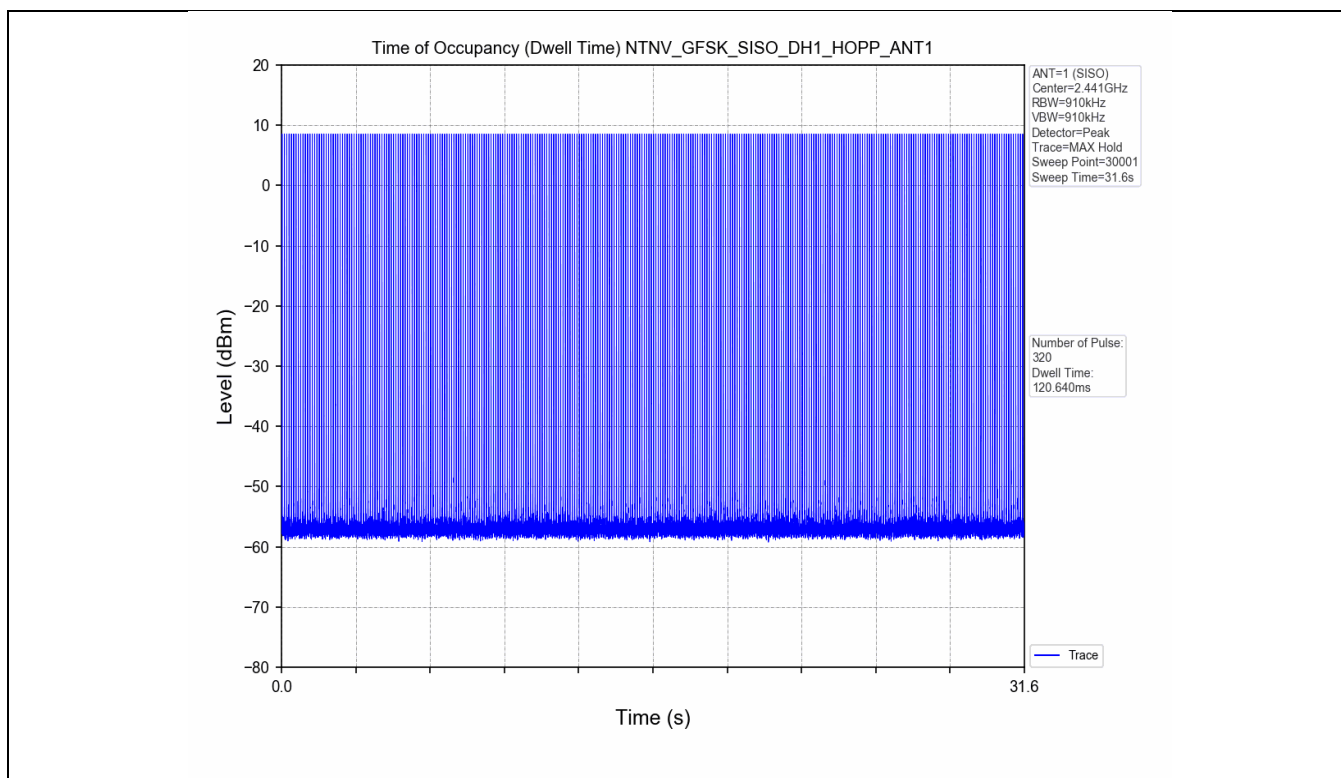
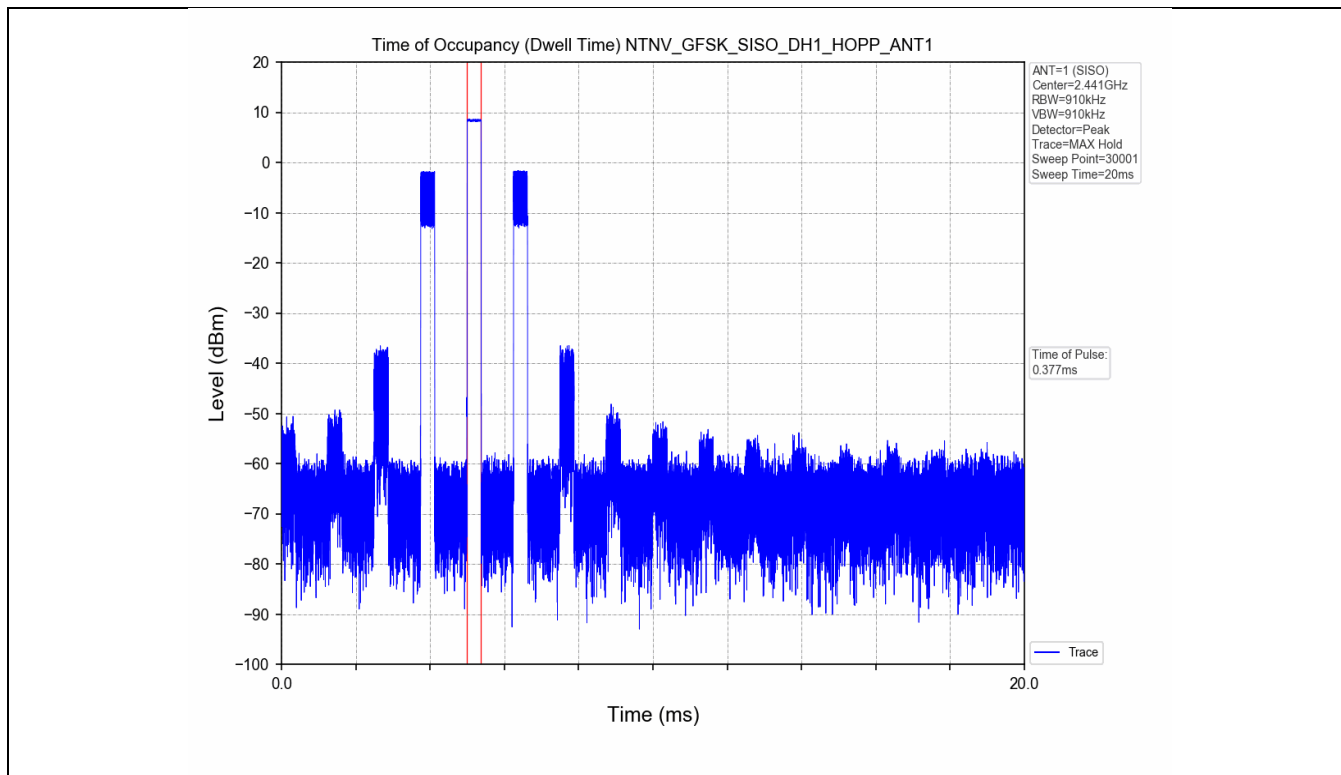


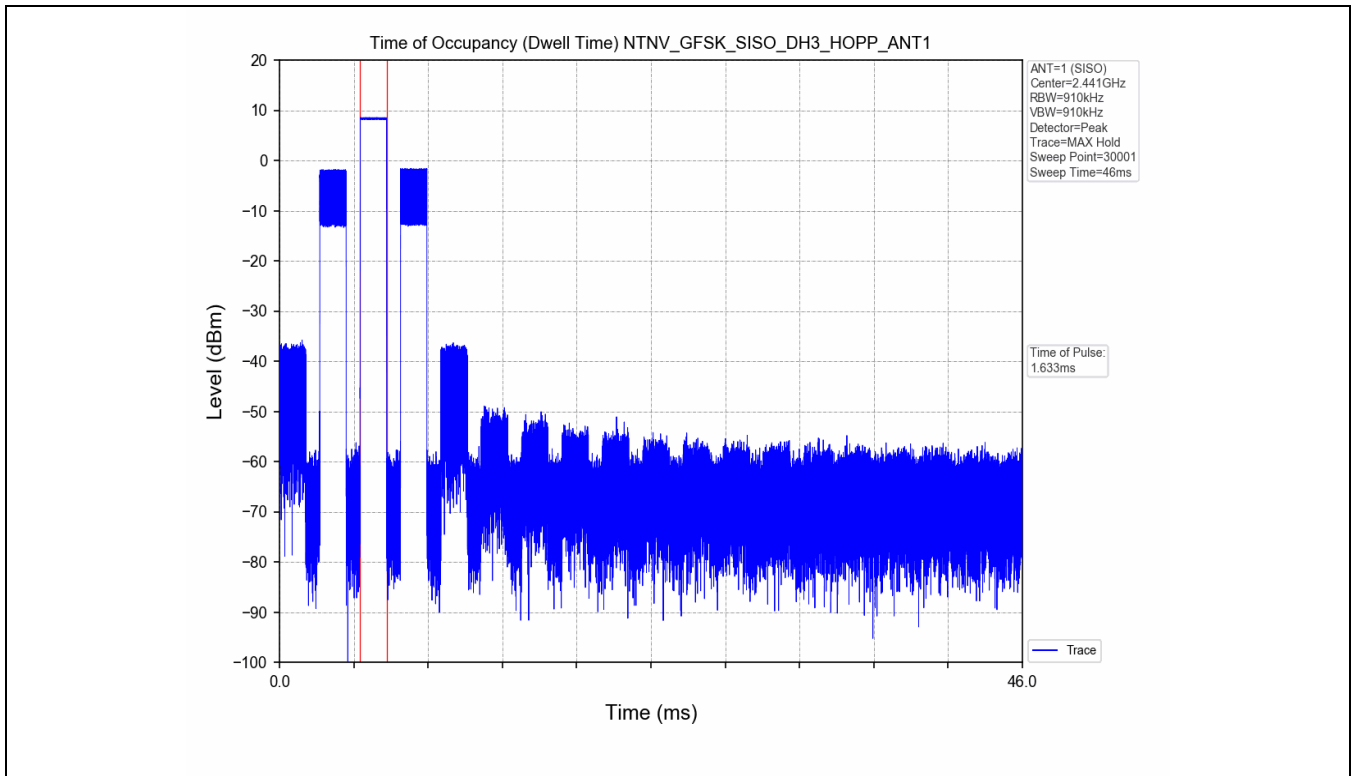
5. Time of Occupancy (Dwell Time)

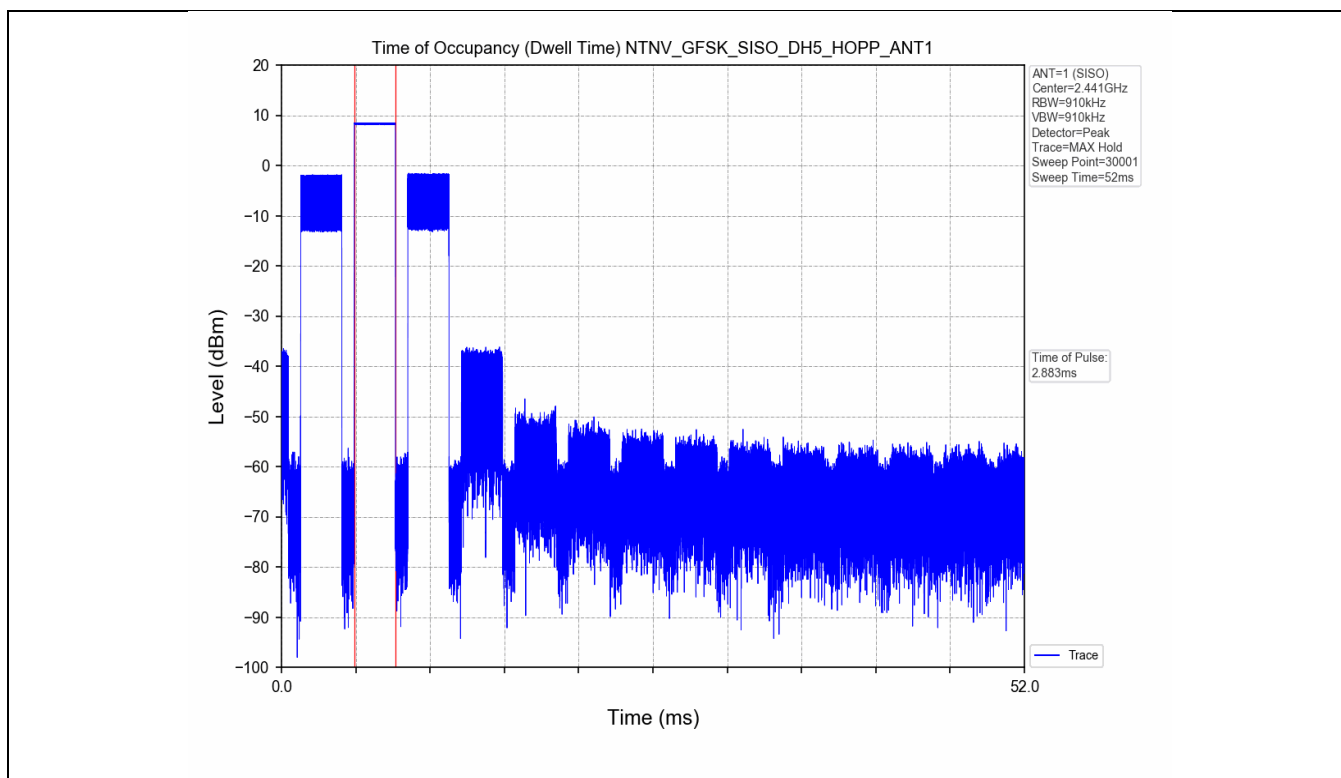
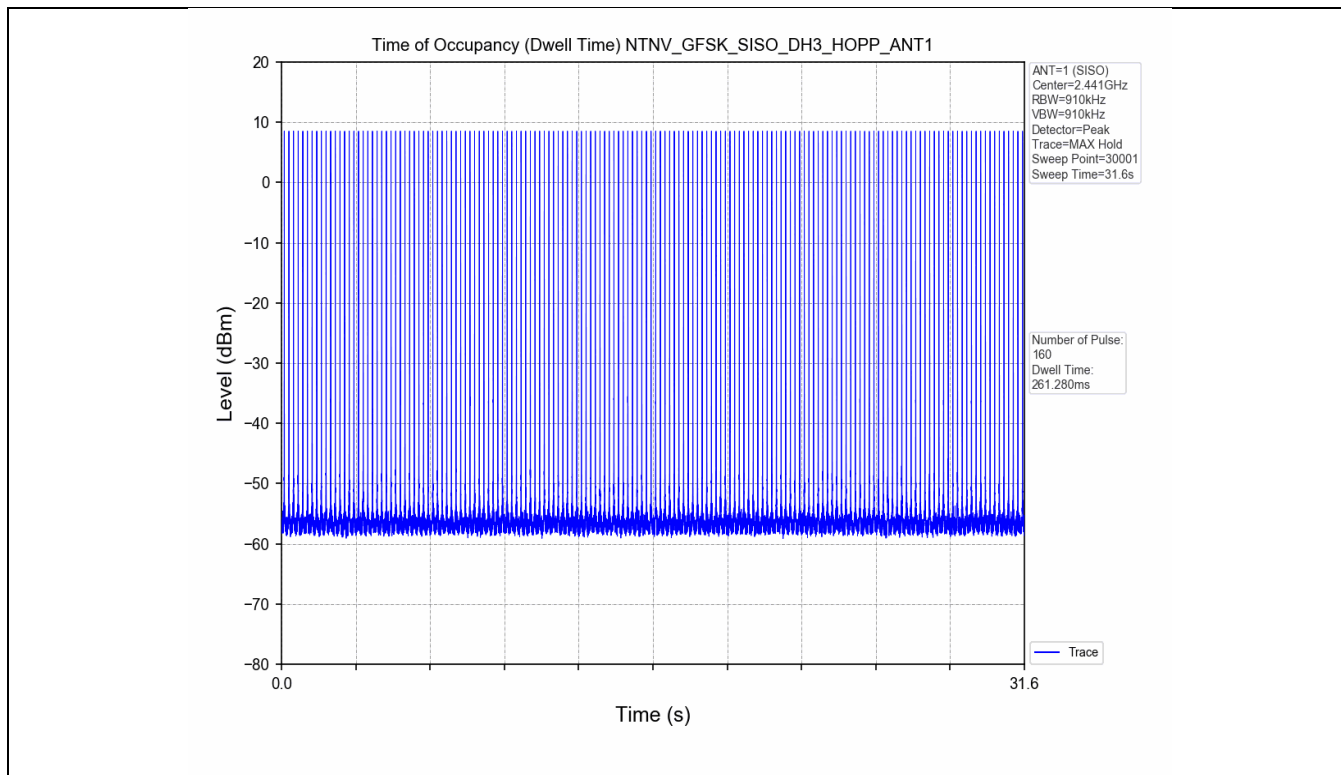
5.1 Test Result

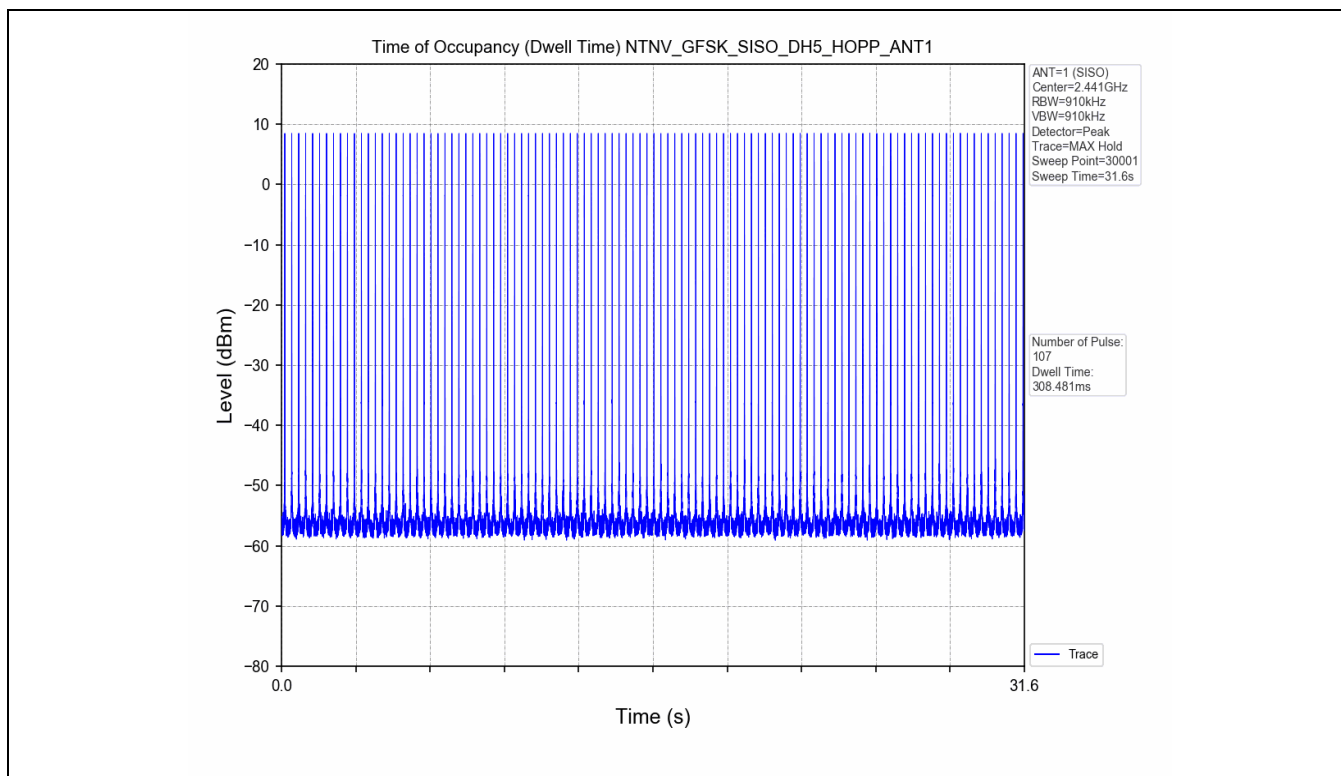
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.377	31.6	320	120.640	≤400	PASS
	DH3	SISO	1	1.633	31.6	160	261.280	≤400	PASS
	DH5	SISO	1	2.883	31.6	107	308.481	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.383	31.6	320	122.560	≤400	PASS
	2DH3	SISO	1	1.636	31.6	160	261.760	≤400	PASS
	2DH5	SISO	1	2.883	31.6	107	308.481	≤400	PASS
8DPSK	3DH1	SISO	1	0.383	31.6	320	122.560	≤400	PASS
	3DH3	SISO	1	1.635	31.6	160	261.600	≤400	PASS
	3DH5	SISO	1	2.886	31.6	107	308.802	≤400	PASS

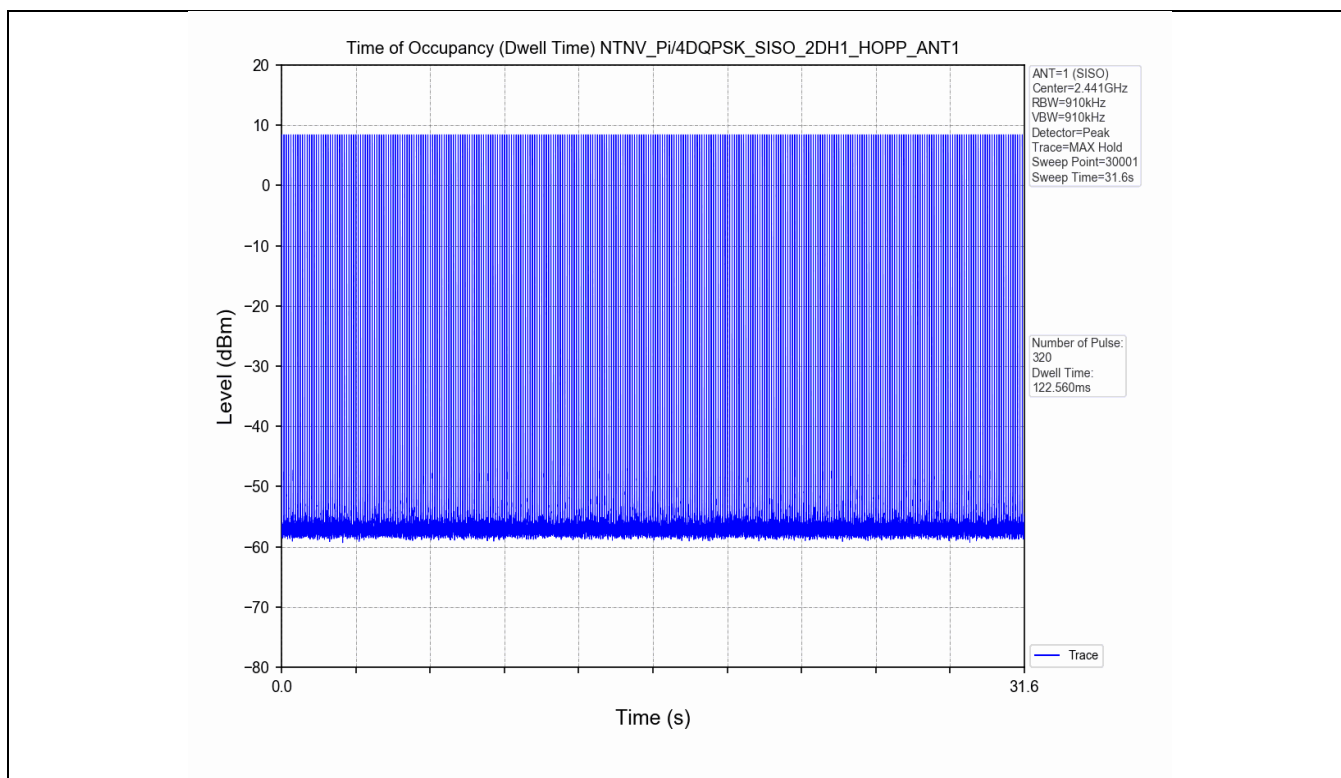
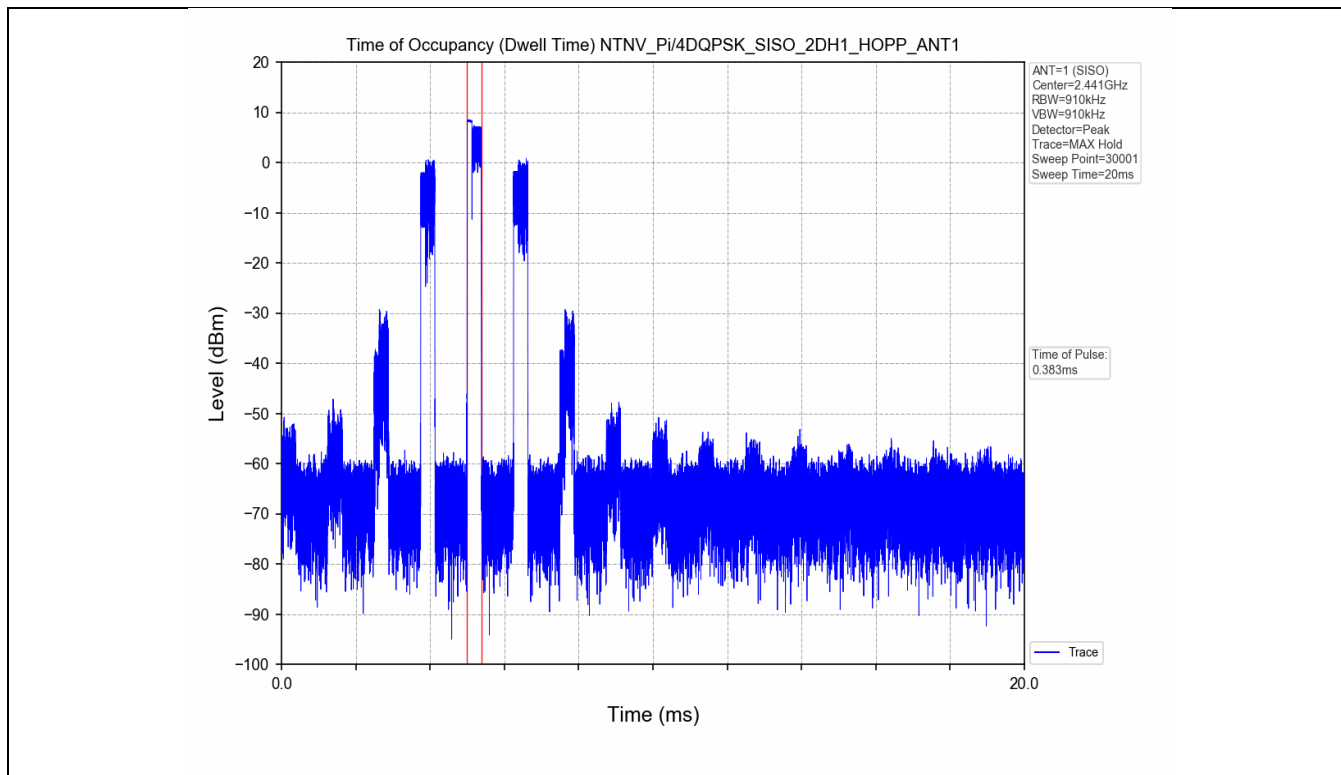
5.2 Test Graph

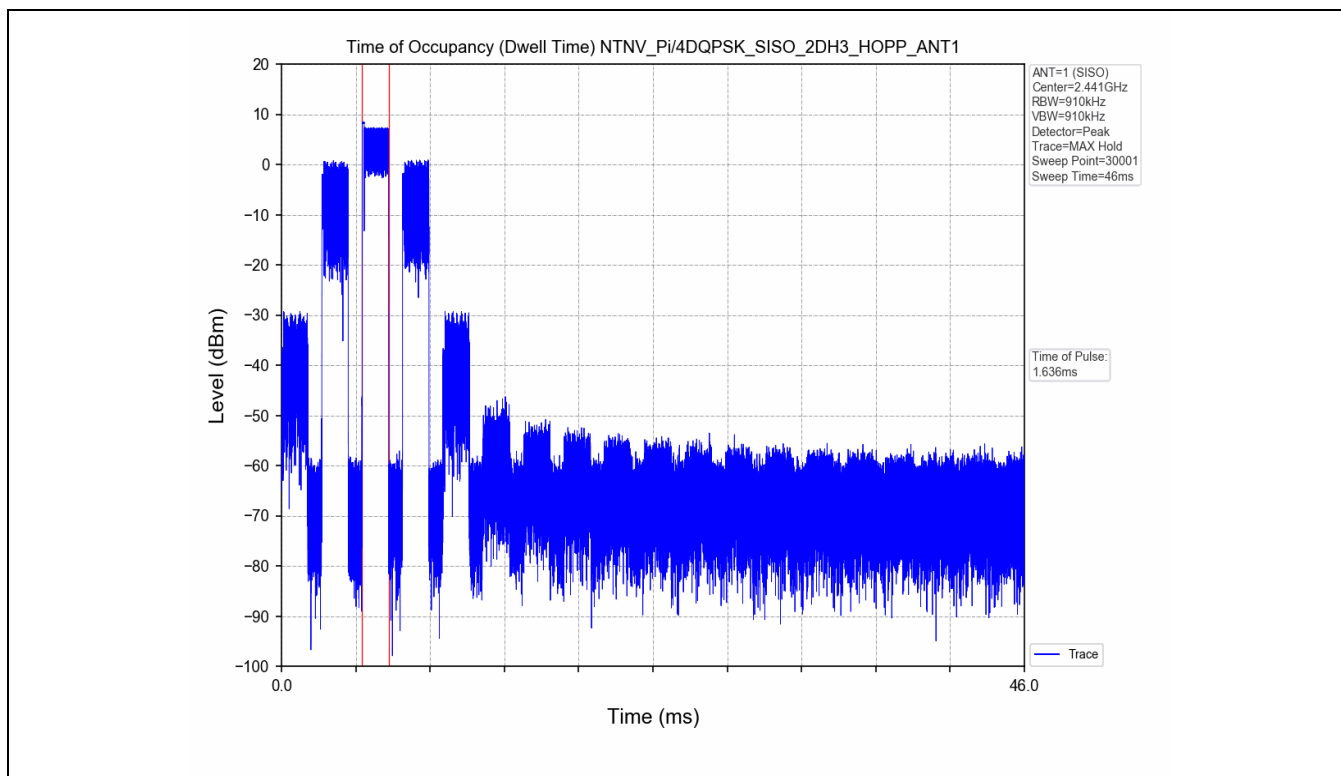


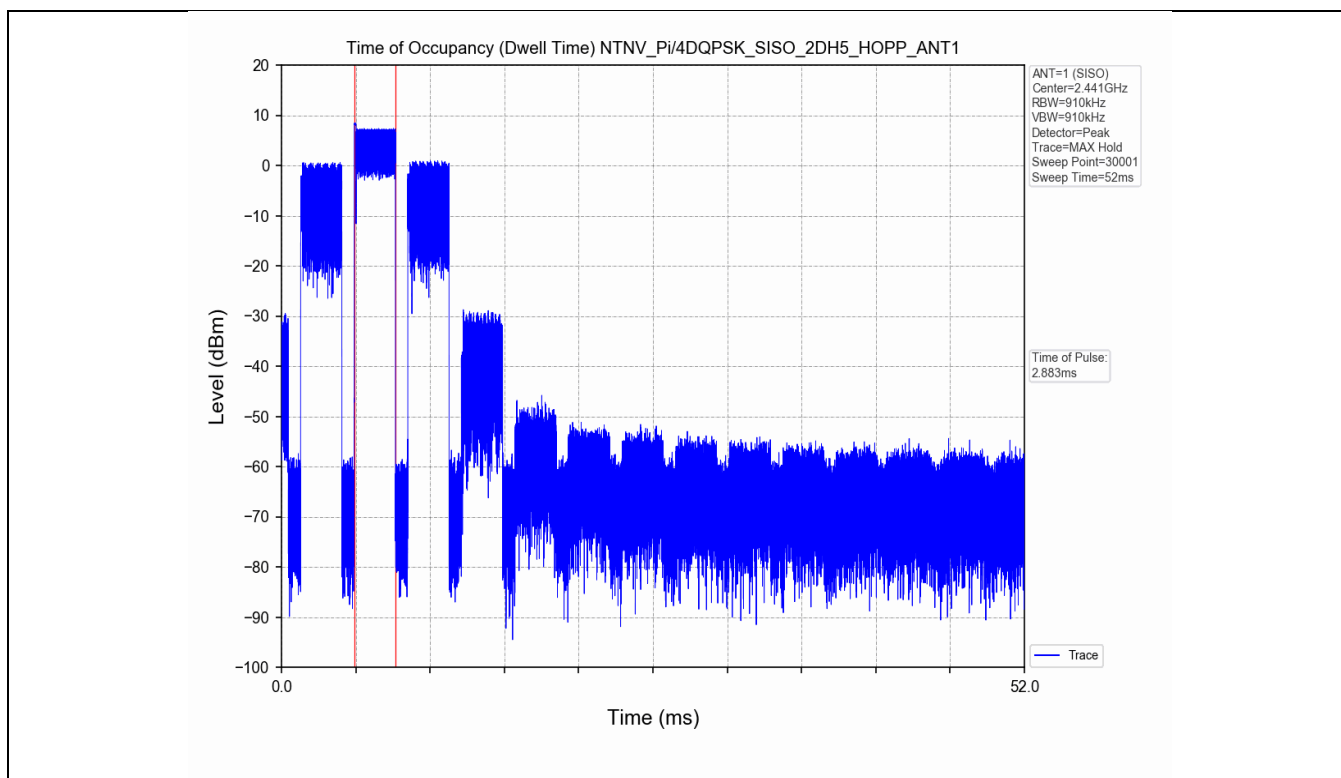
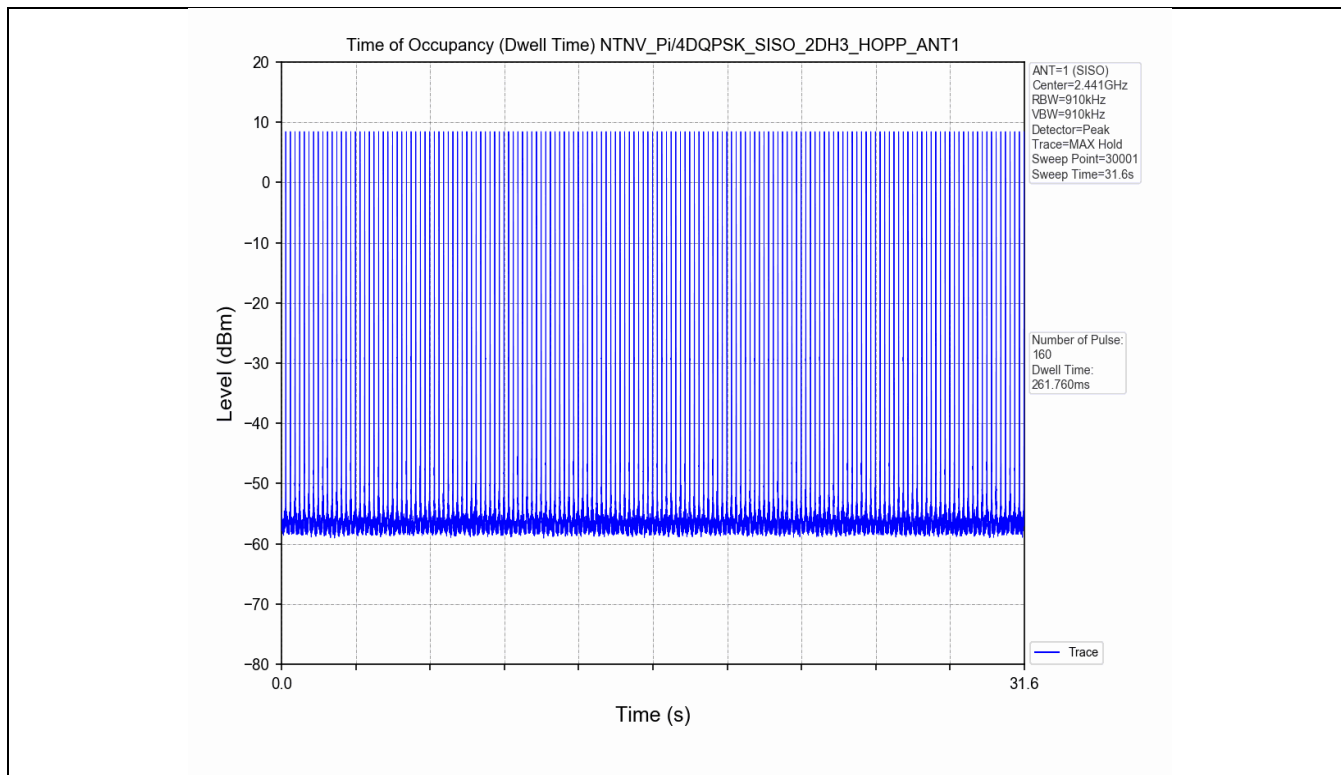


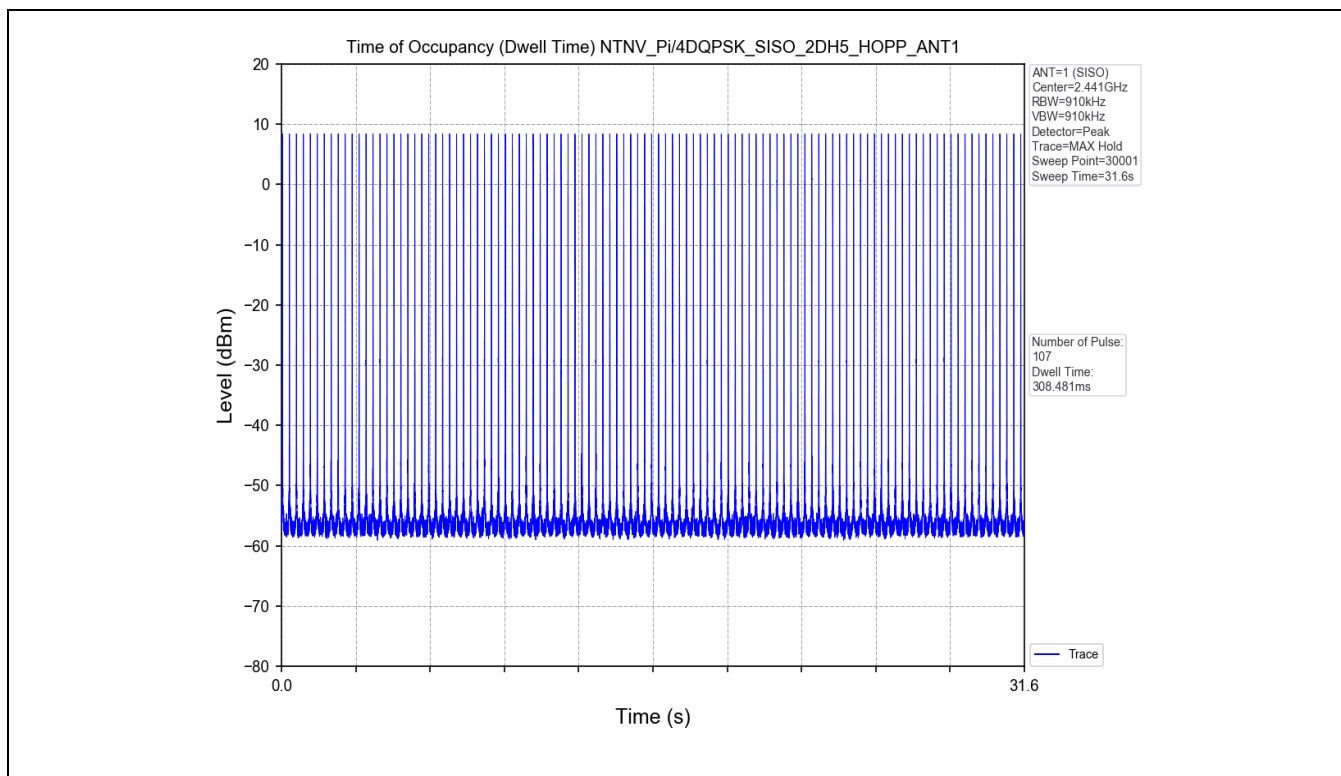


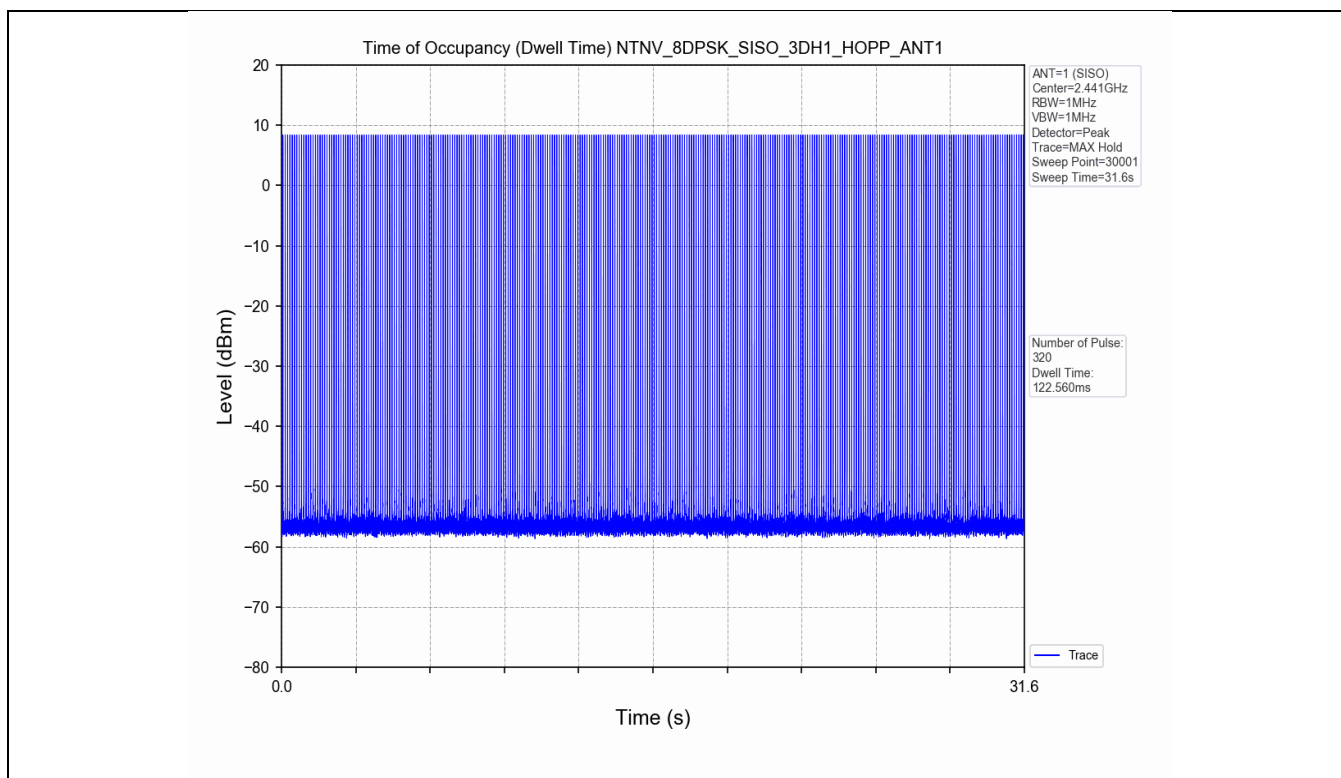
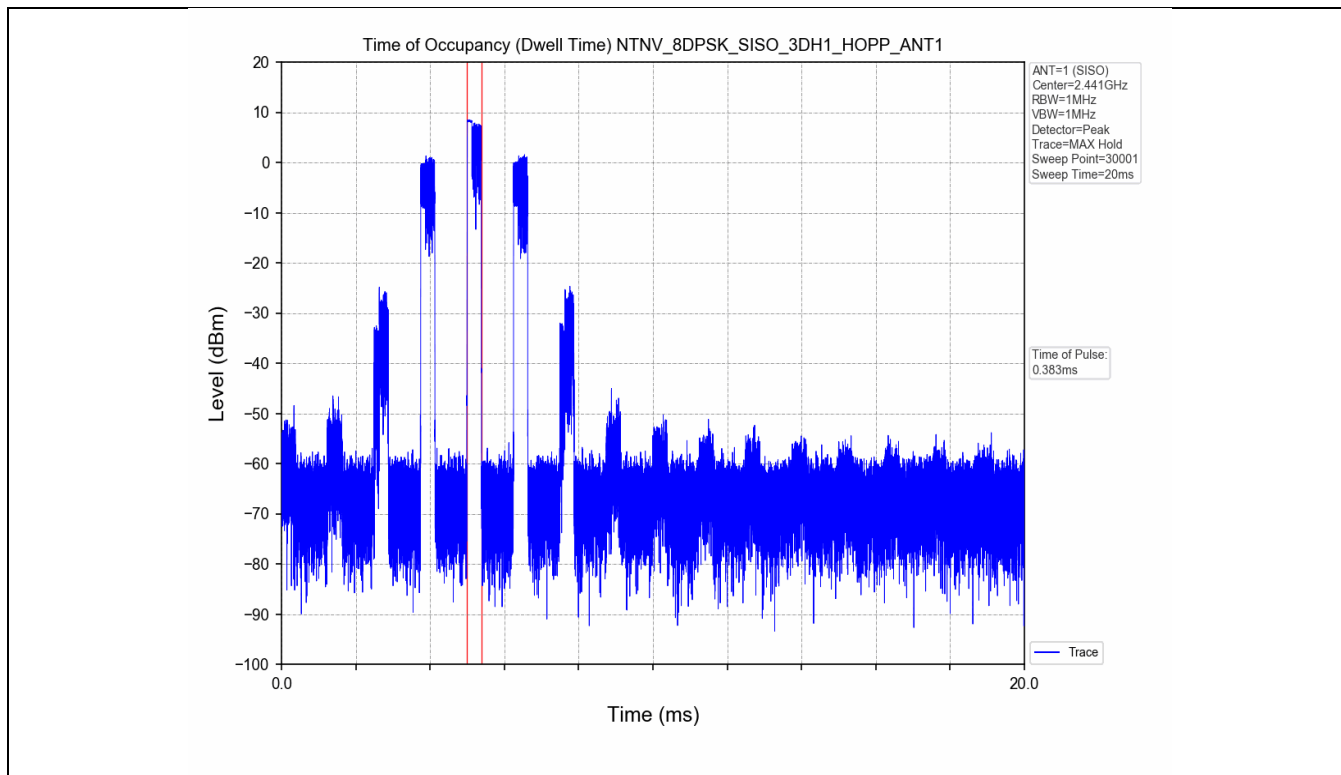


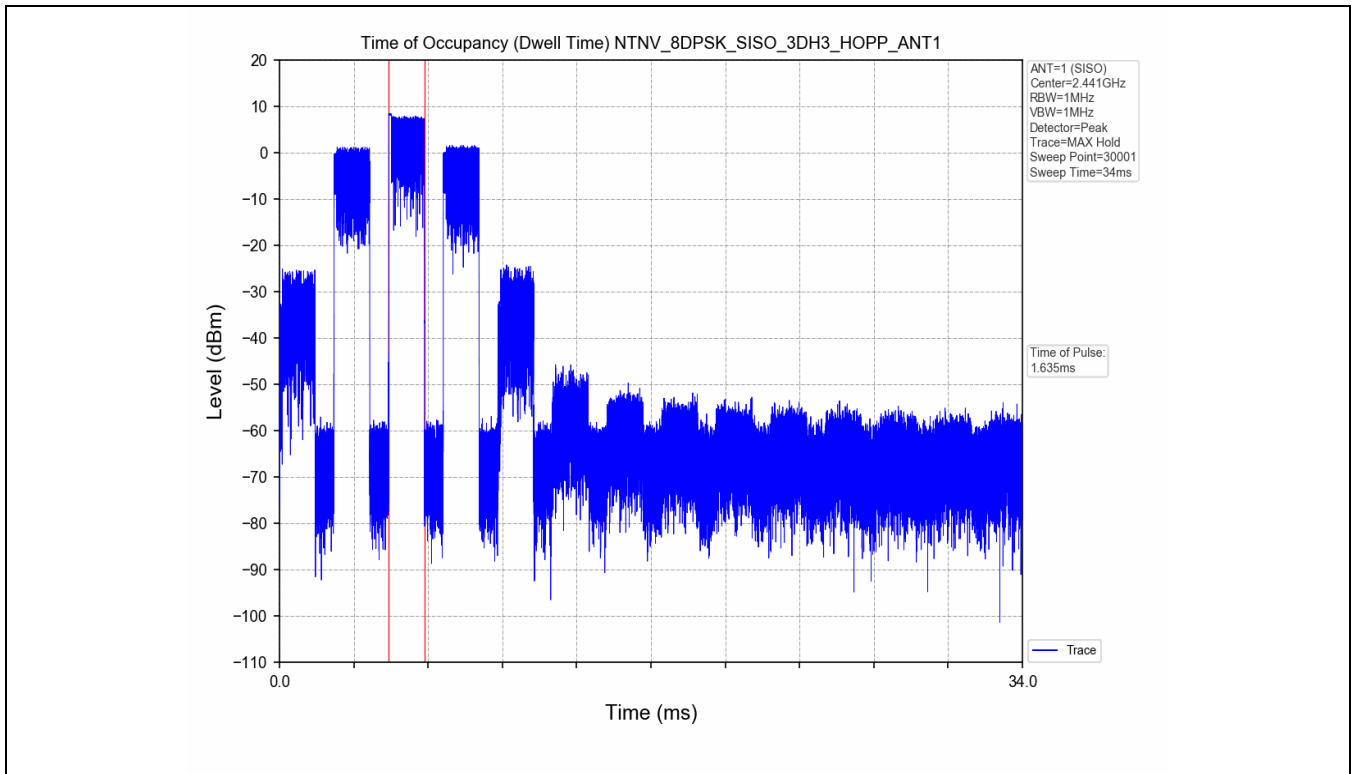


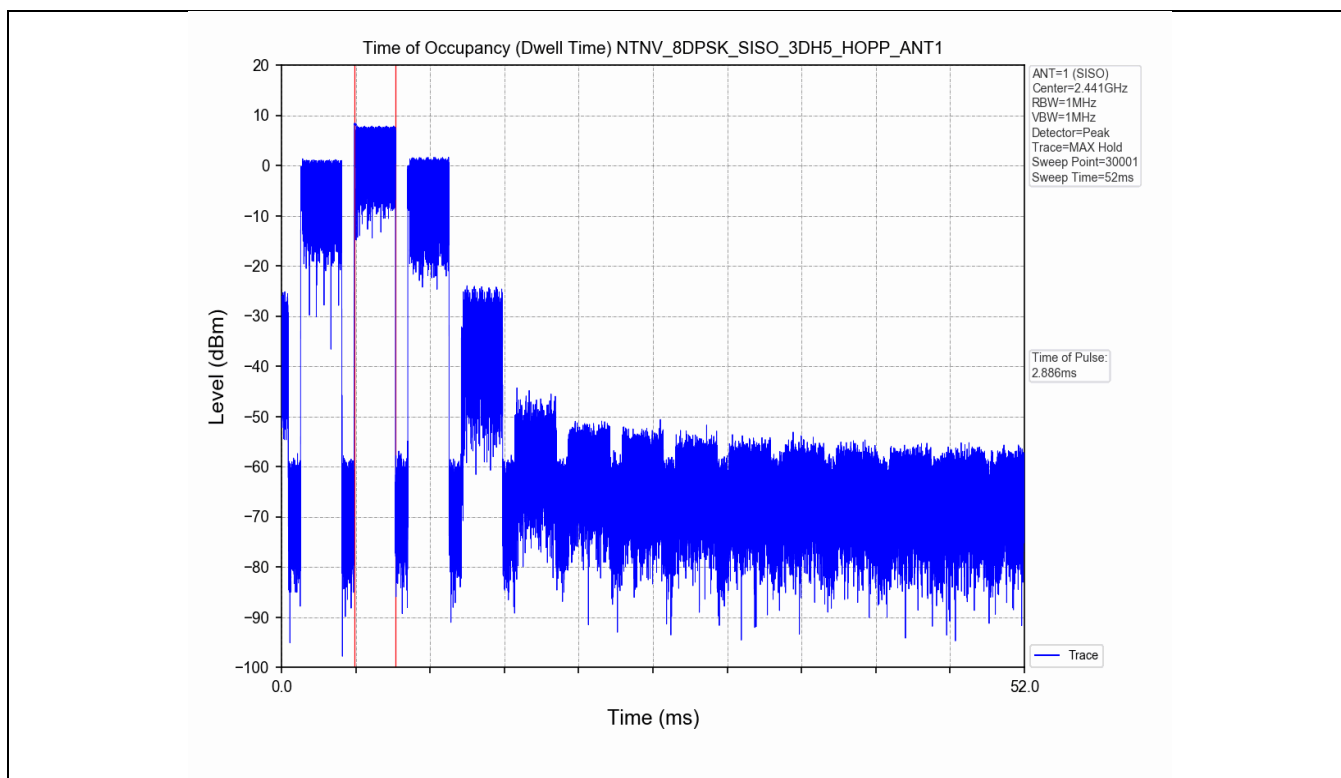
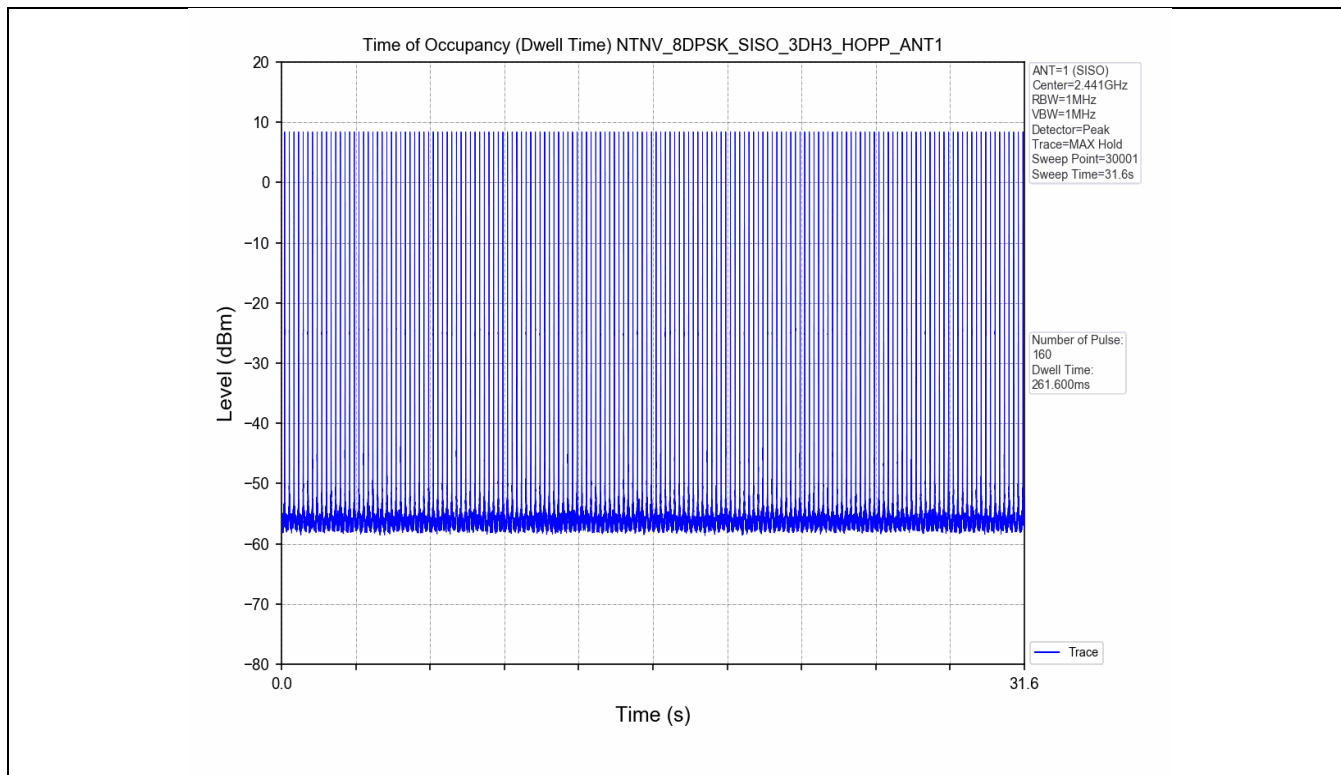


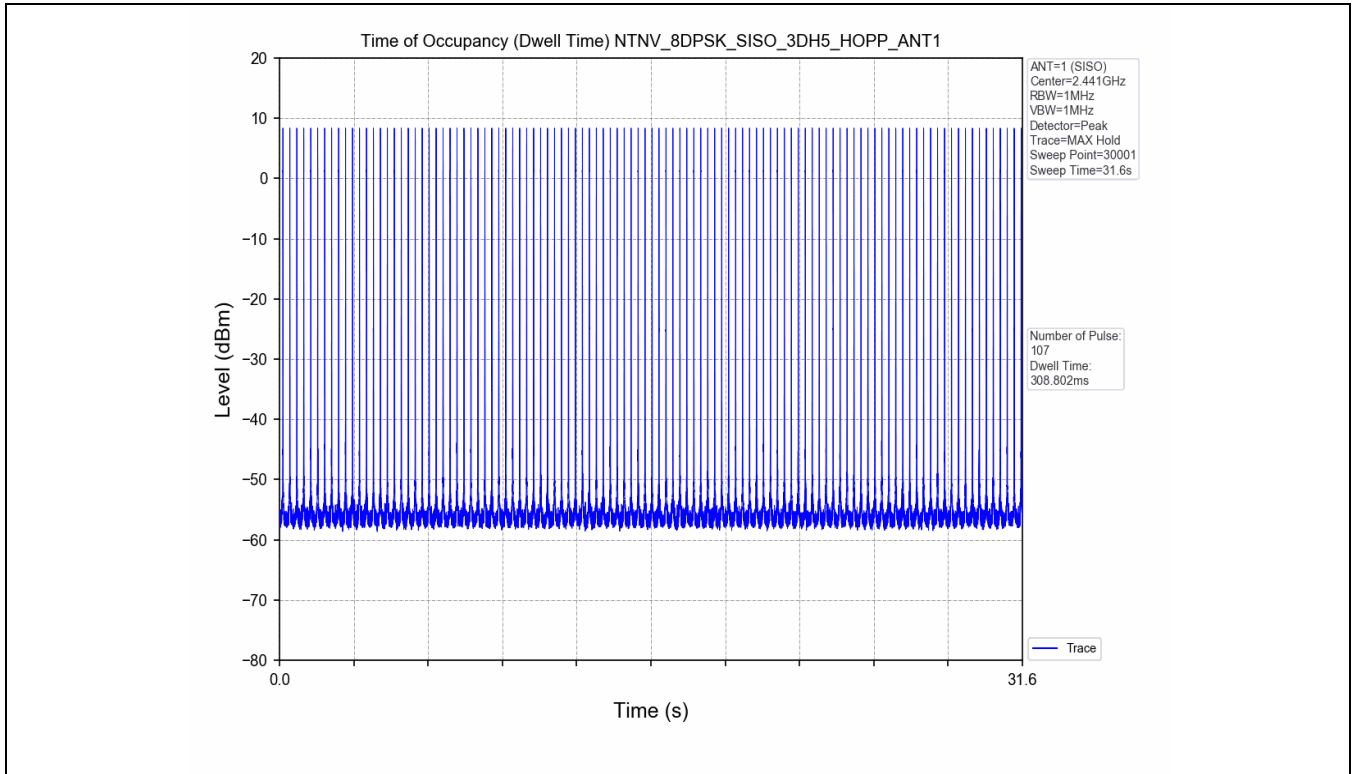












6. Unwanted Emissions in Non-restricted Frequency Bands

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	-11.16	PASS
	2441	SISO	1	Refer to test graph	-11.16	PASS
	2480	SISO	1	Refer to test graph	-11.16	PASS
	Hopping	SISO	1	Refer to test graph	-11.16	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-11.58	PASS
	2441	SISO	1	Refer to test graph	-11.58	PASS
	2480	SISO	1	Refer to test graph	-11.58	PASS
	Hopping	SISO	1	Refer to test graph	-11.58	PASS
8DPSK	2402	SISO	1	Refer to test graph	-11.67	PASS
	2441	SISO	1	Refer to test graph	-11.67	PASS
	2480	SISO	1	Refer to test graph	-11.67	PASS
	Hopping	SISO	1	Refer to test graph	-11.67	PASS

6.2 Test Graph

