

Appendix for 15.247

Report No.: CTL2007237021-WF

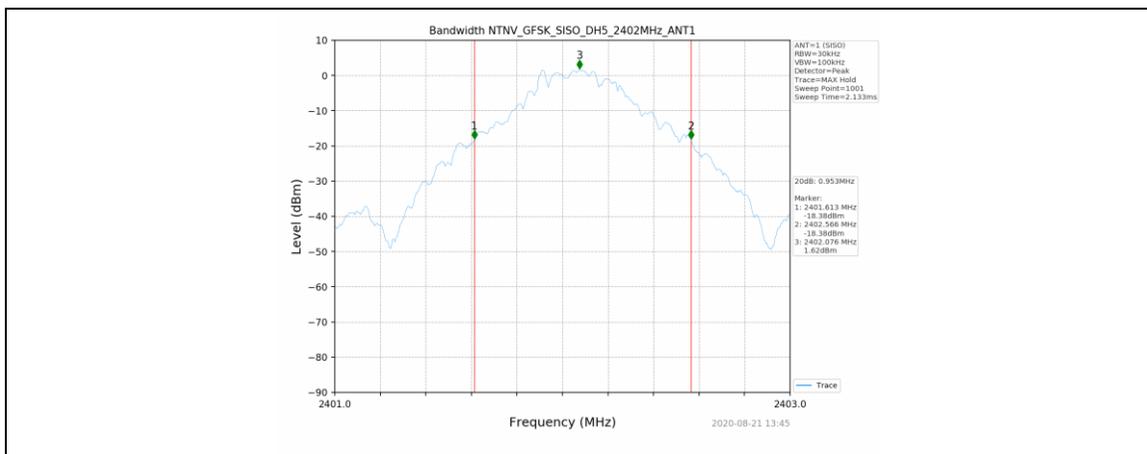
1. Bandwidth

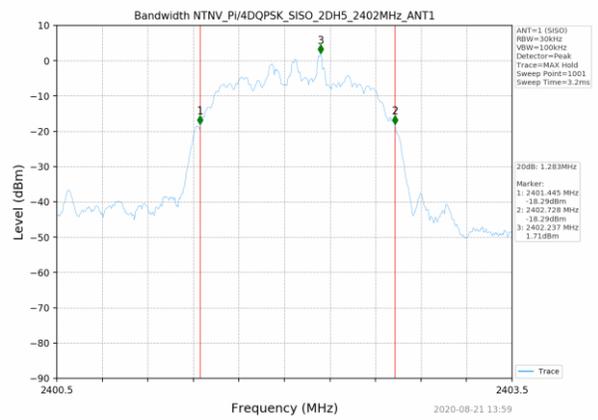
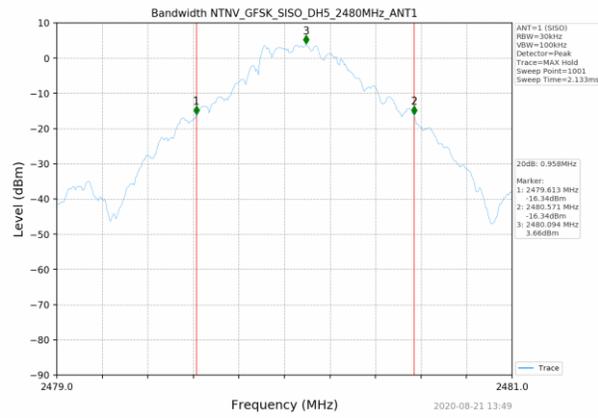
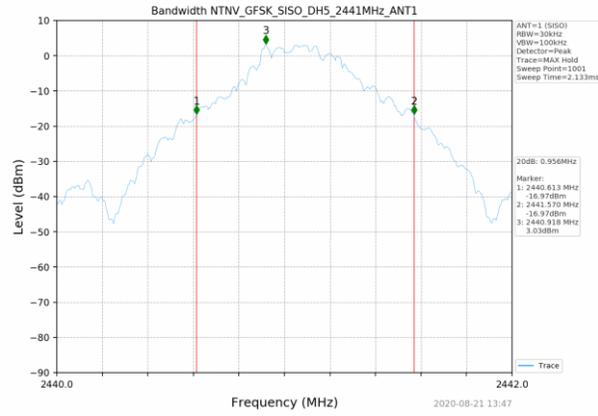
1.1 Test Result

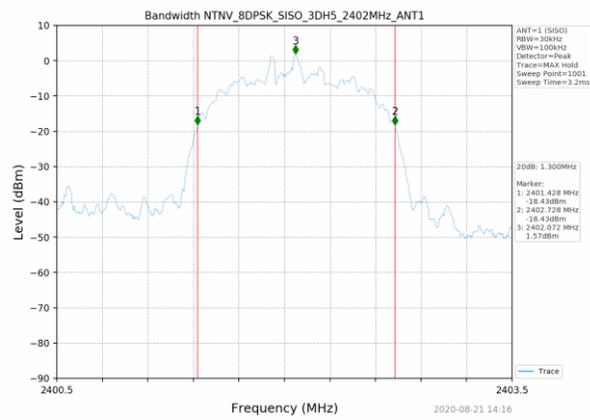
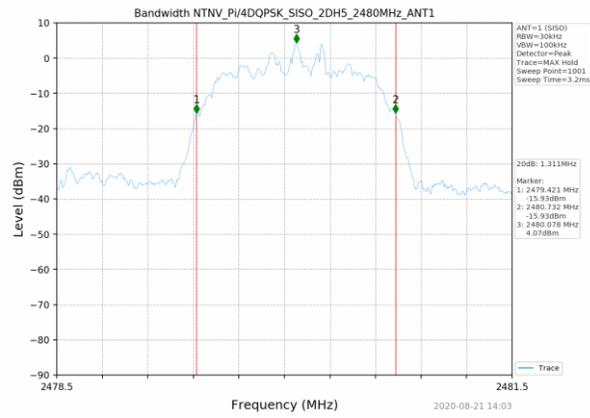
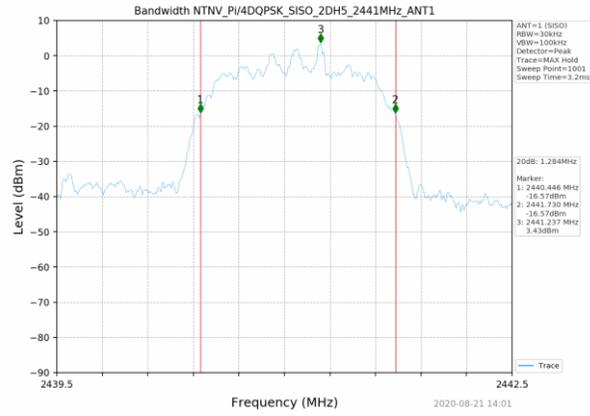
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.953	PASS
	2441	SISO	1	0.956	PASS
	2480	SISO	1	0.958	PASS
Pi/4DQPSK	2402	SISO	1	1.283	PASS
	2441	SISO	1	1.284	PASS
	2480	SISO	1	1.311	PASS
8DPSK	2402	SISO	1	1.300	PASS
	2441	SISO	1	1.301	PASS
	2480	SISO	1	1.305	PASS

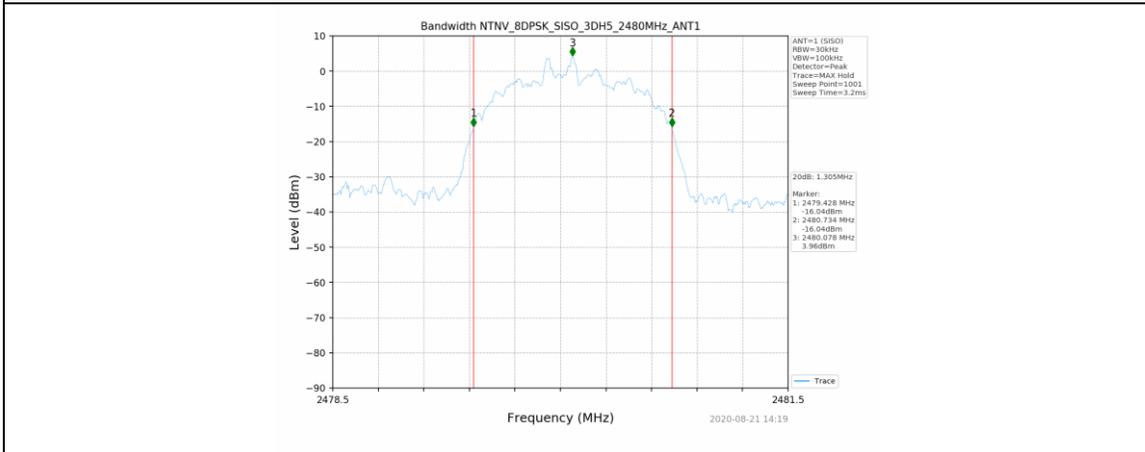
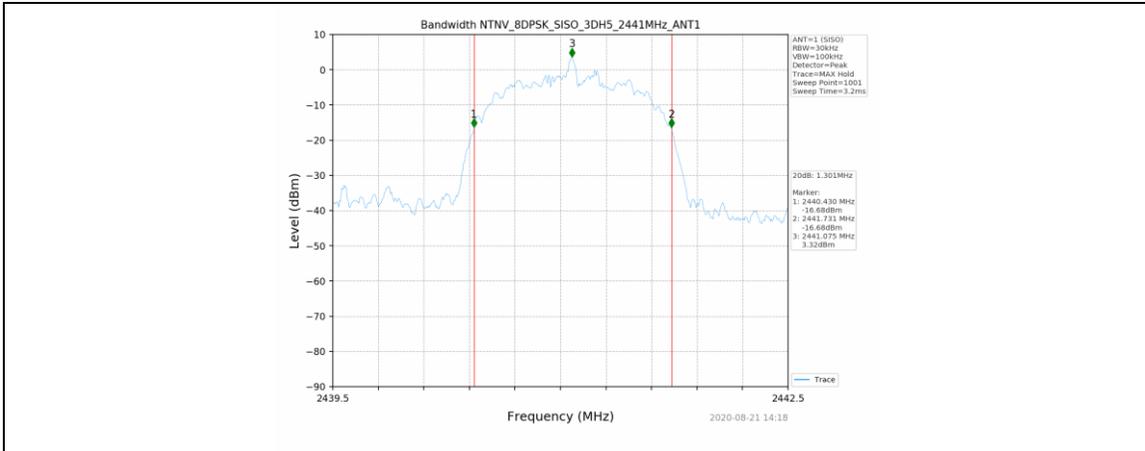
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.851	Only for Report Use
	2441	SISO	1	0.848	Only for Report Use
	2480	SISO	1	0.853	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.176	Only for Report Use
	2441	SISO	1	1.181	Only for Report Use
	2480	SISO	1	1.188	Only for Report Use
8DPSK	2402	SISO	1	1.190	Only for Report Use
	2441	SISO	1	1.194	Only for Report Use
	2480	SISO	1	1.208	Only for Report Use

1.2 Test Graph - 20dB Bandwidth

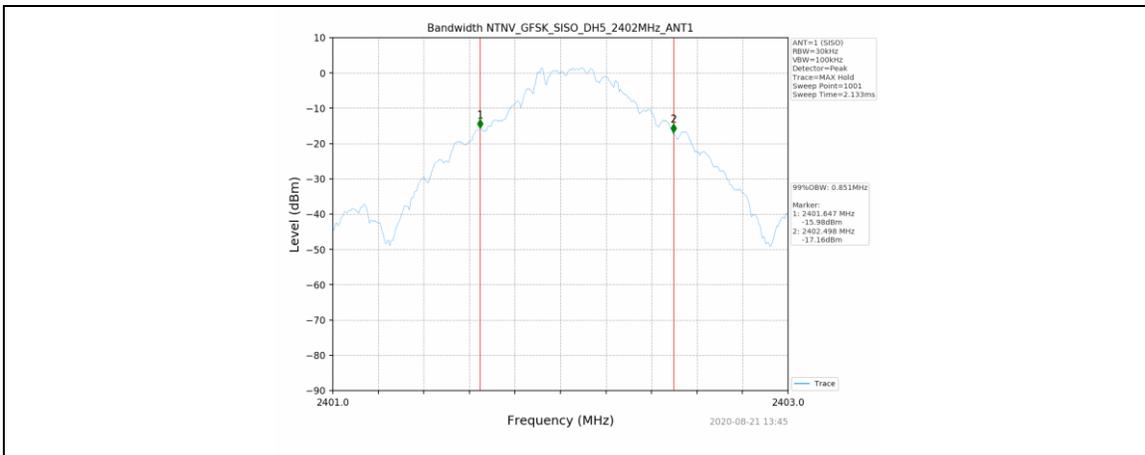


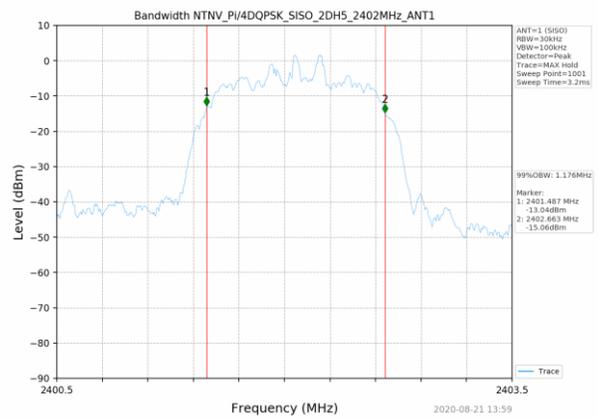
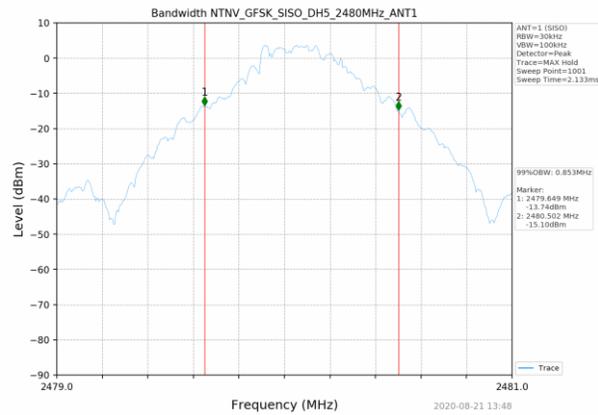
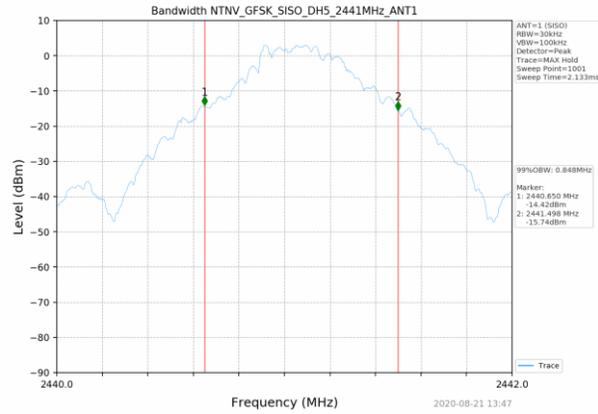


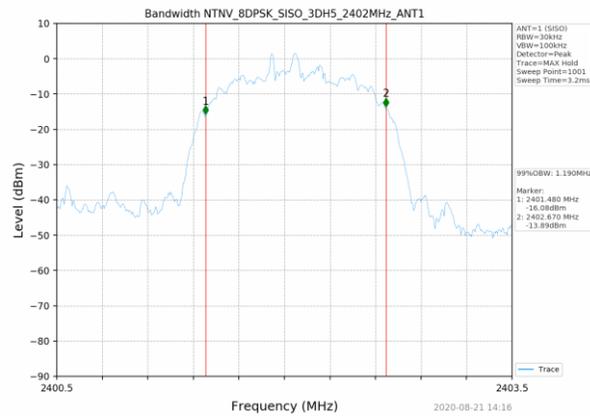
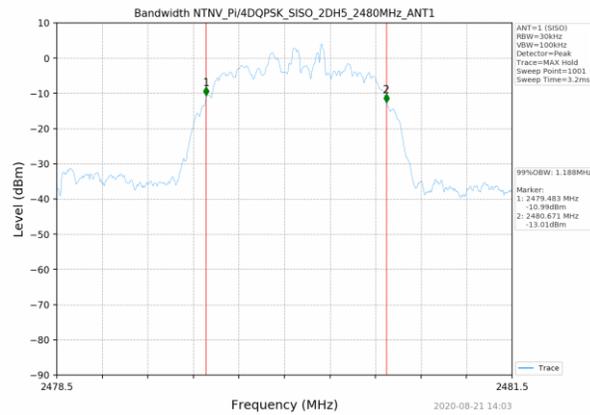
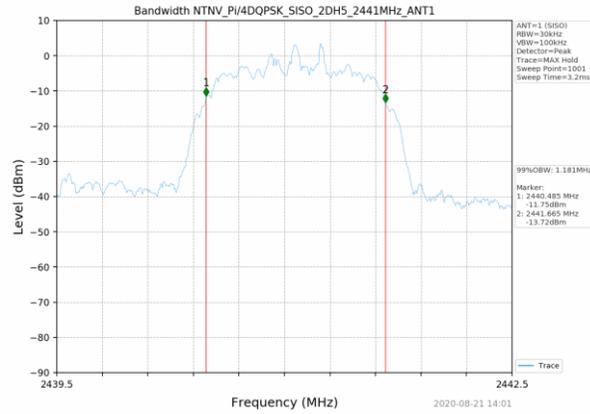


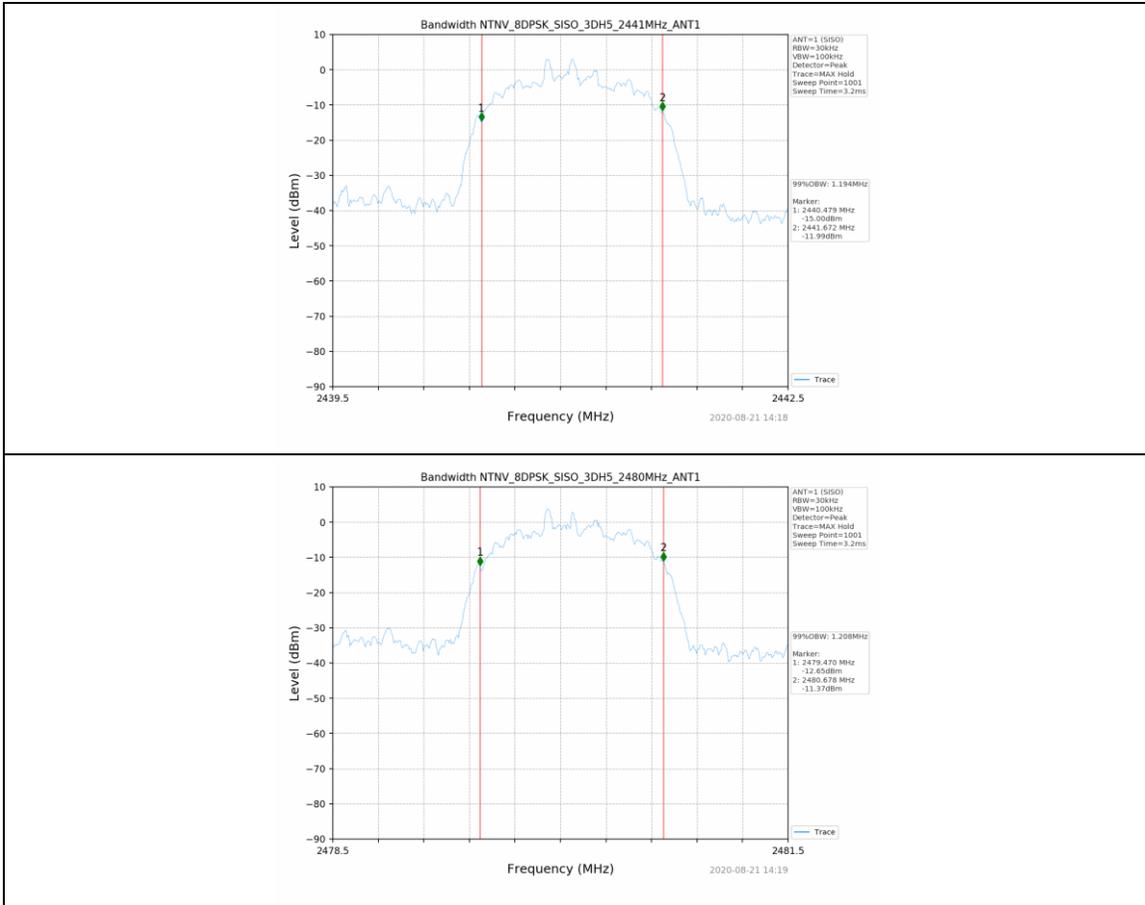


1.3 Test Graph - 99% Occupied Bandwidth







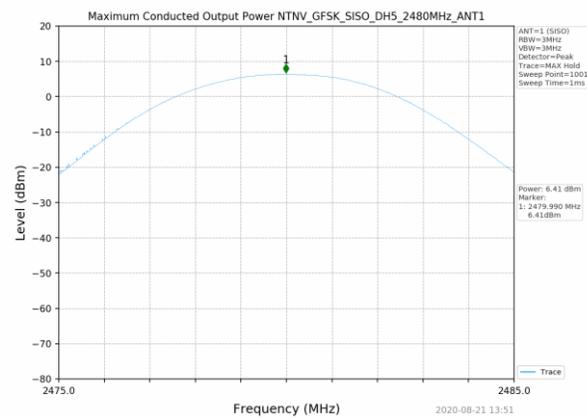
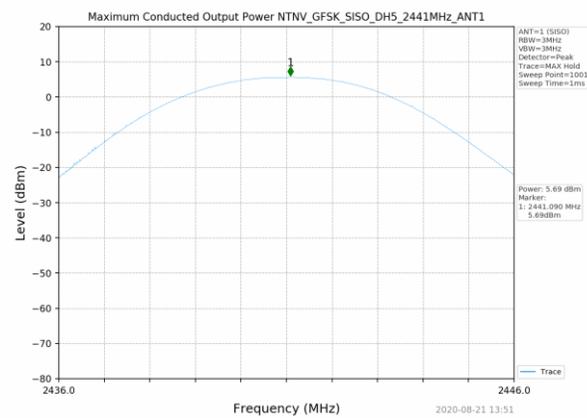
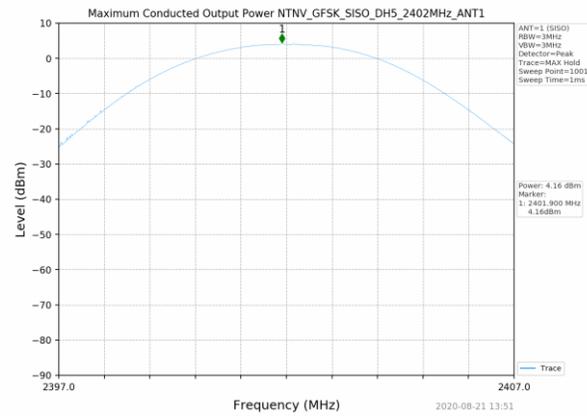


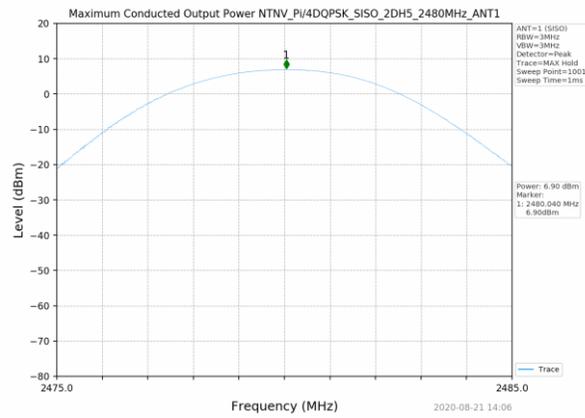
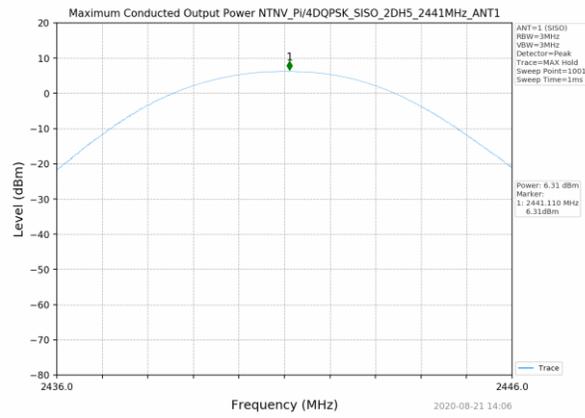
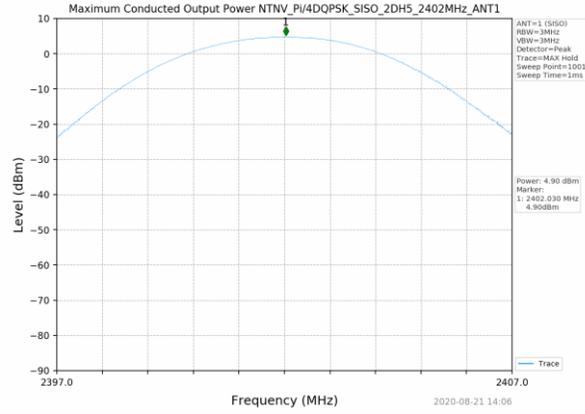
2. Maximum Conducted Output Power

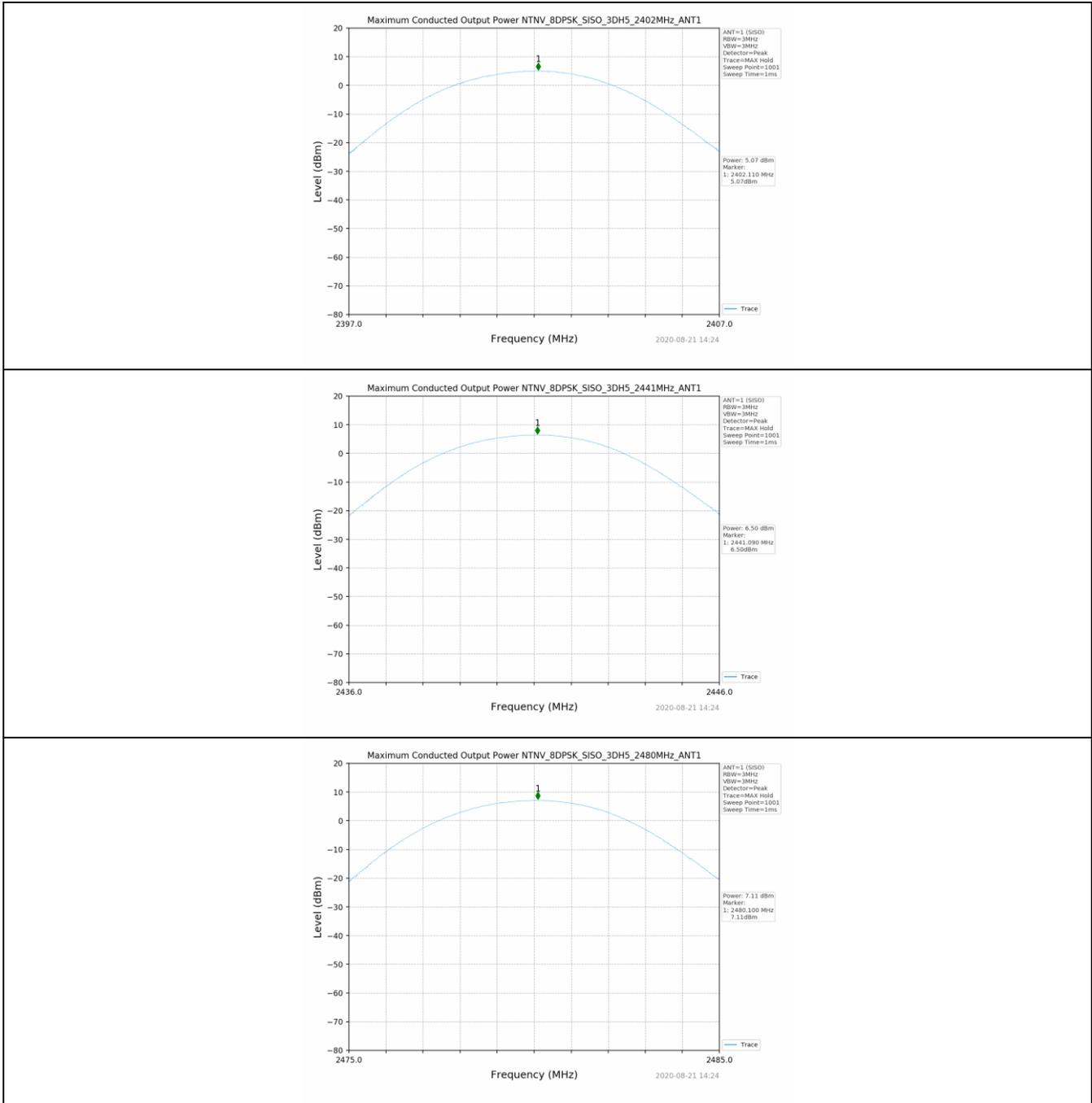
2.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	4.16	30	PASS
	2441	SISO	5.69	30	PASS
	2480	SISO	6.41	30	PASS
Pi/4DQPSK	2402	SISO	4.90	20.97	PASS
	2441	SISO	6.31	20.97	PASS
	2480	SISO	6.90	20.97	PASS
8DPSK	2402	SISO	5.07	20.97	PASS
	2441	SISO	6.50	20.97	PASS
	2480	SISO	7.11	20.97	PASS

2.2 Test Graph





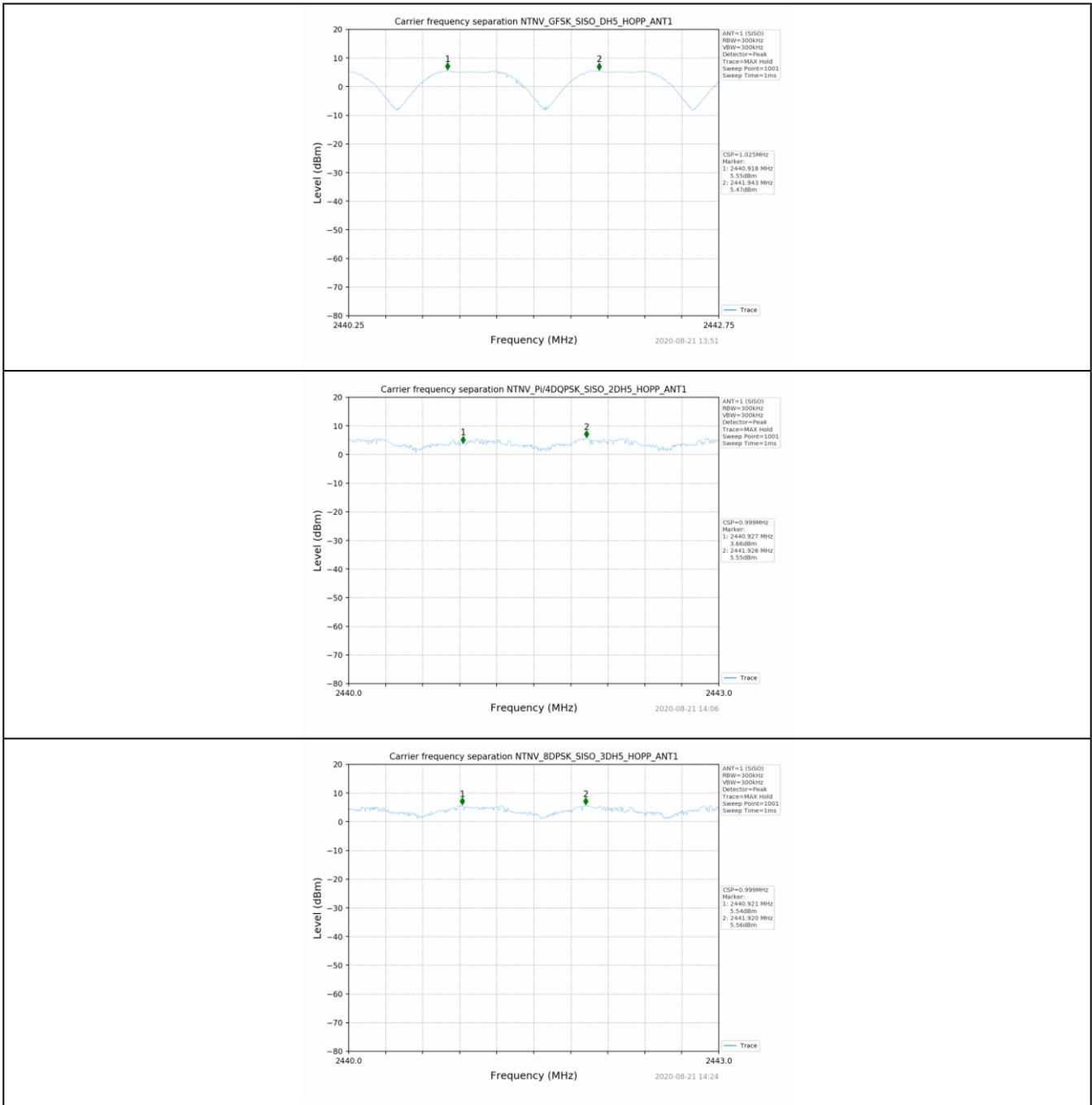


3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.025	0.958	≥ 0.958	PASS
Pi/4DQPSK	SISO	1	0.999	1.311	≥ 0.874	PASS
8DPSK	SISO	1	0.999	1.305	≥ 0.870	PASS

3.2 Test Graph



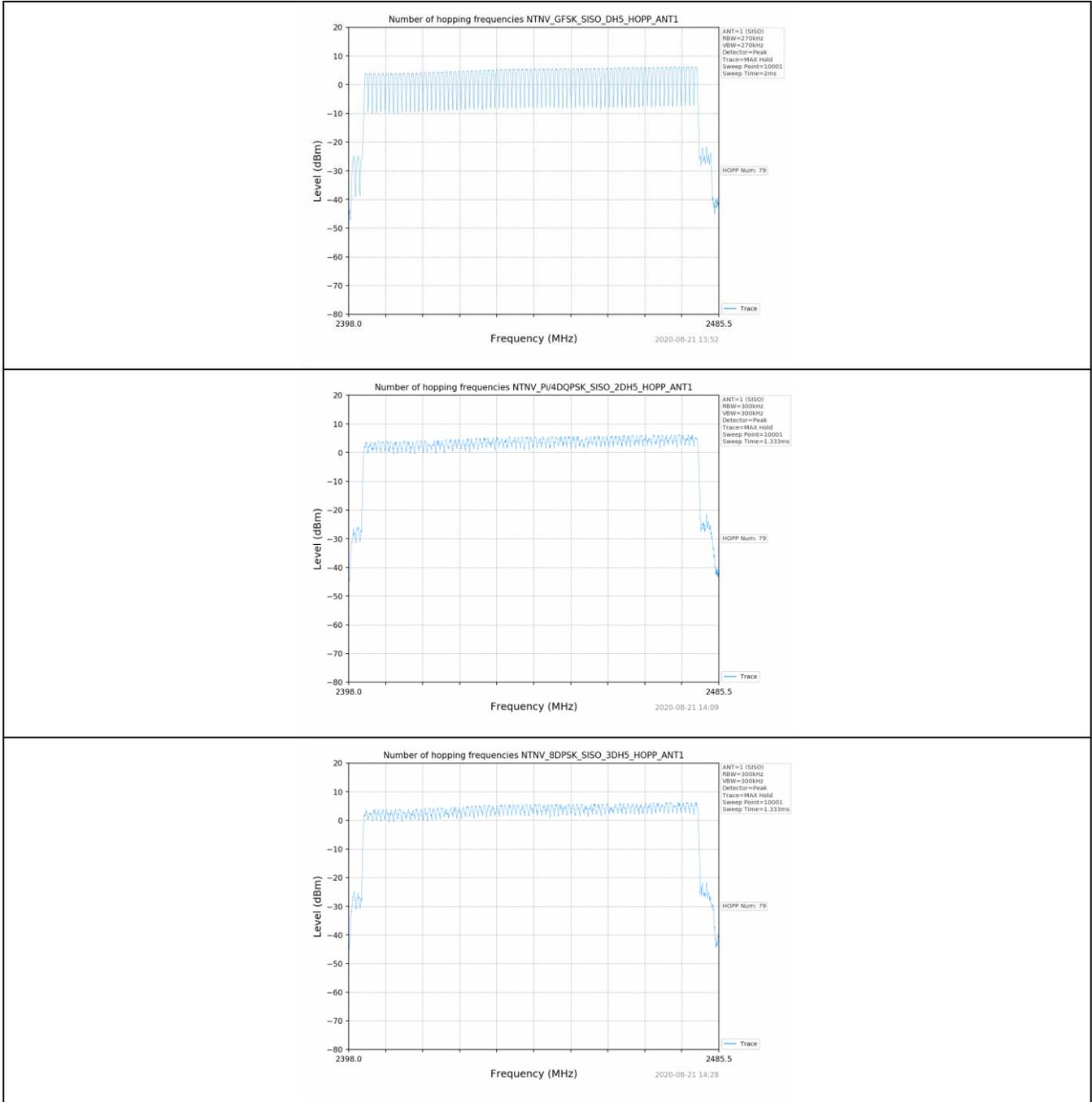
4. Number of hopping frequencies

4.1 Test Result

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

K					
8DPSK	SISO	1	79	≥15	PASS

4.2 Test Graph

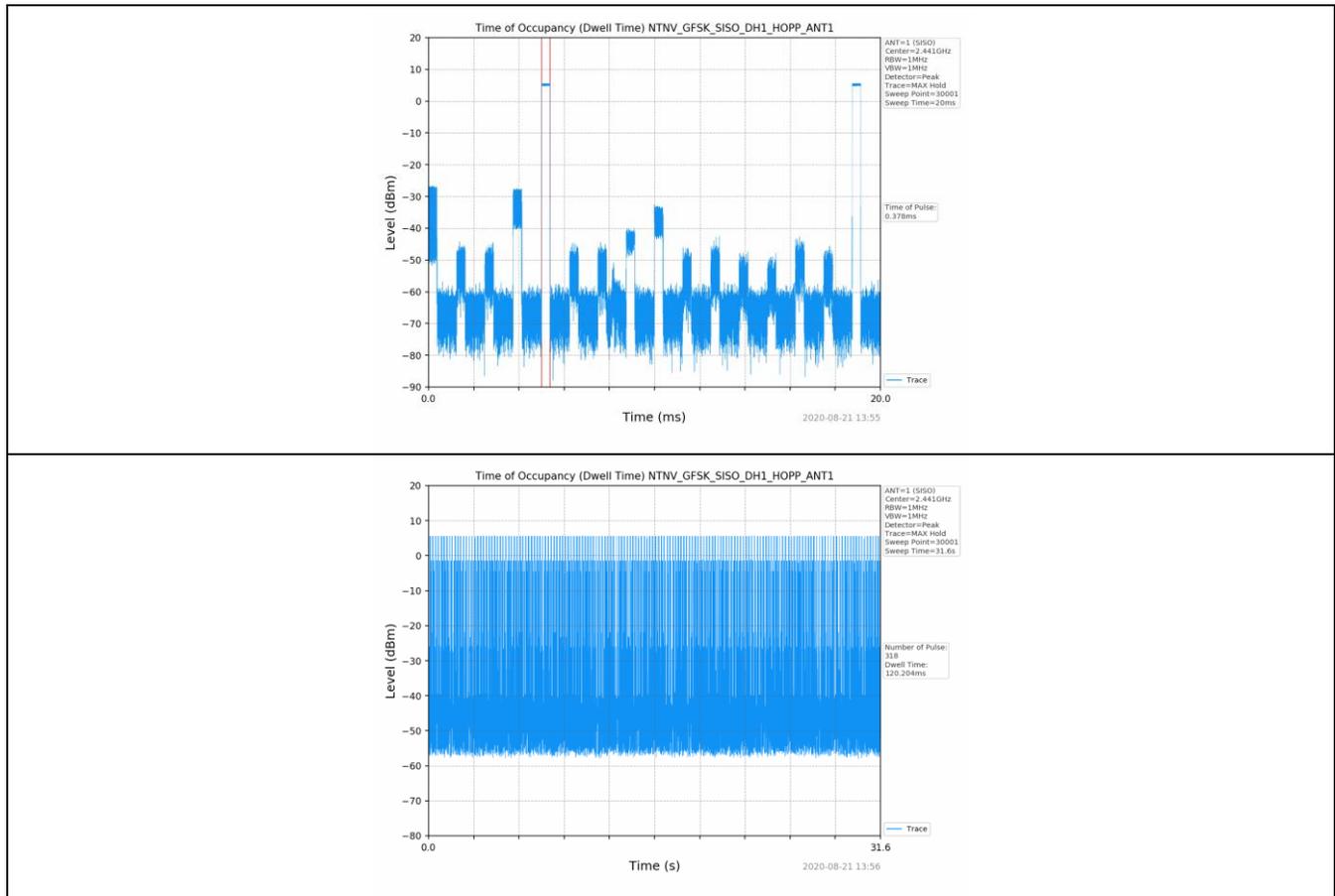


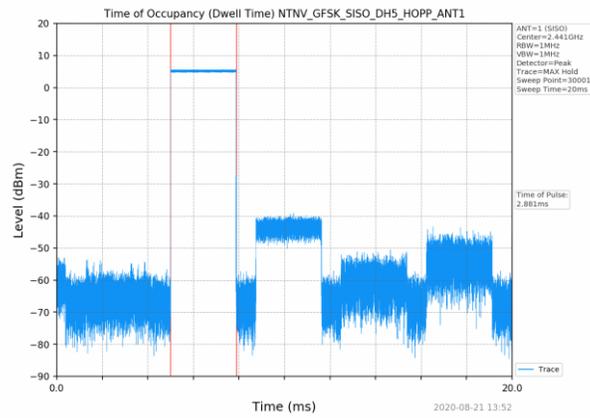
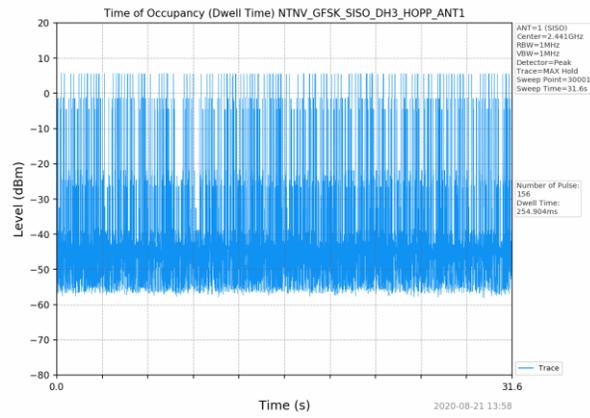
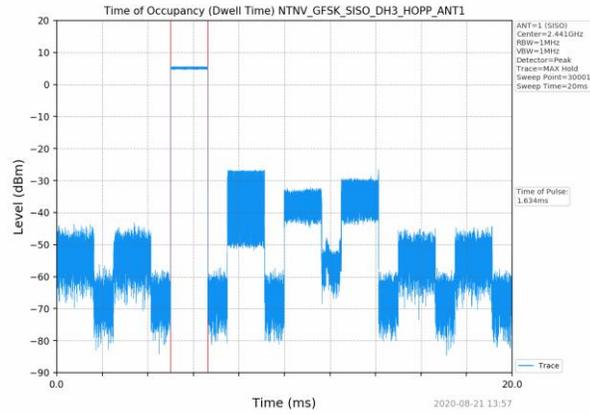
5. Time of Occupancy (Dwell Time)

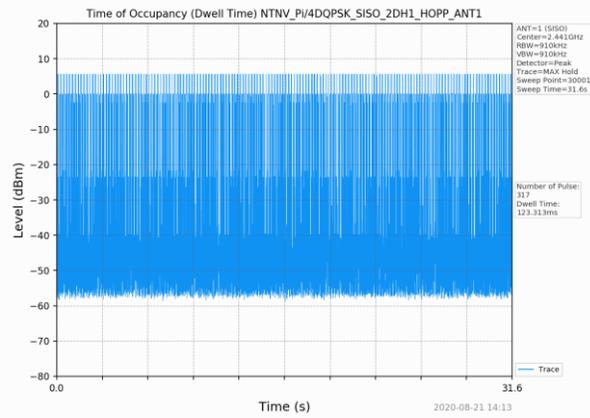
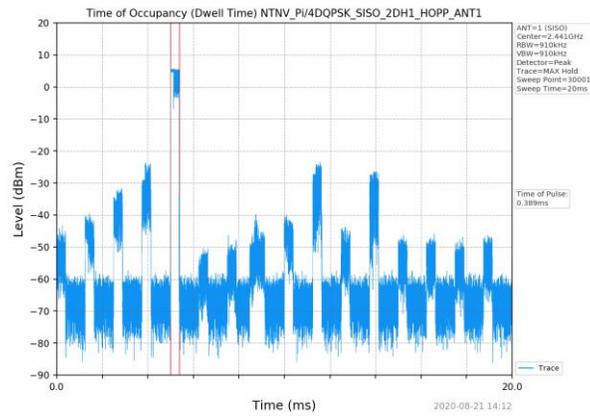
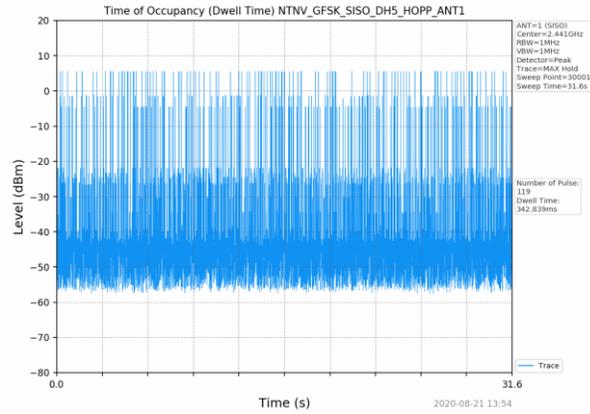
5.1 Test Result

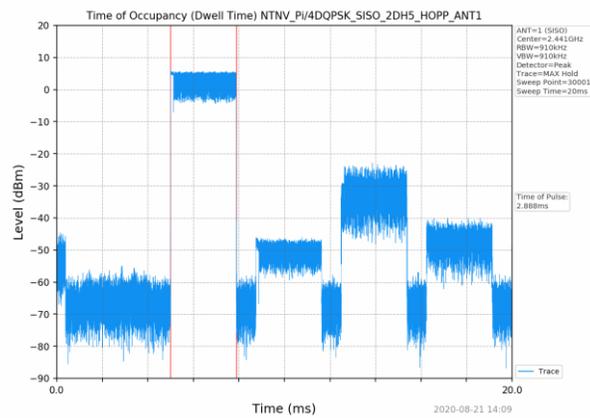
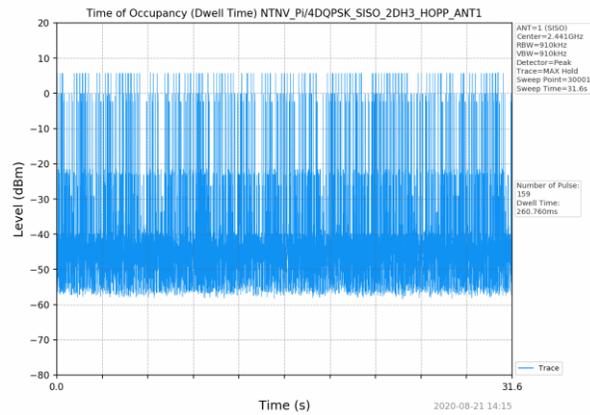
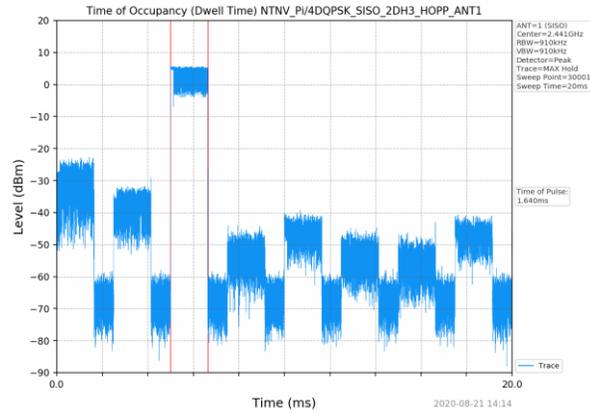
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.378	31.6	318	120.204	≤400	PASS
	DH3	SISO	1	1.634	31.6	156	254.904	≤400	PASS
	DH5	SISO	1	2.881	31.6	119	342.839	≤400	PASS
Pi/4D QPS K	2DH1	SISO	1	0.389	31.6	317	123.313	≤400	PASS
	2DH3	SISO	1	1.640	31.6	159	260.760	≤400	PASS
	2DH5	SISO	1	2.888	31.6	109	314.792	≤400	PASS
8DPS K	3DH1	SISO	1	0.389	31.6	320	124.480	≤400	PASS
	3DH3	SISO	1	1.638	31.6	160	262.080	≤400	PASS
	3DH5	SISO	1	2.890	31.6	112	323.680	≤400	PASS

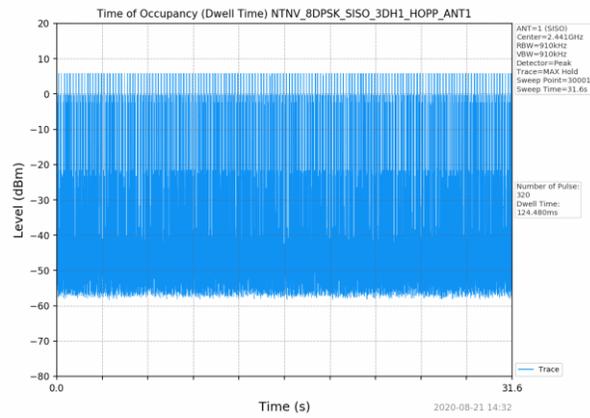
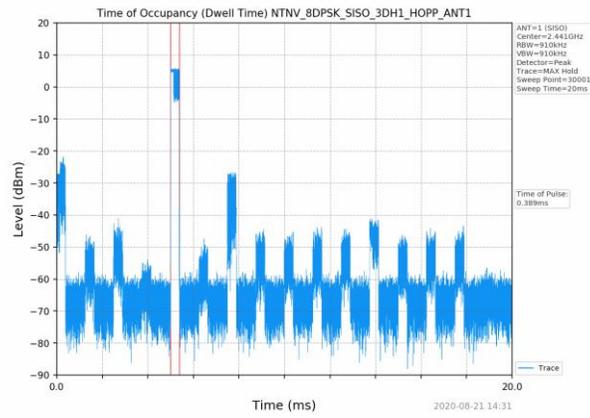
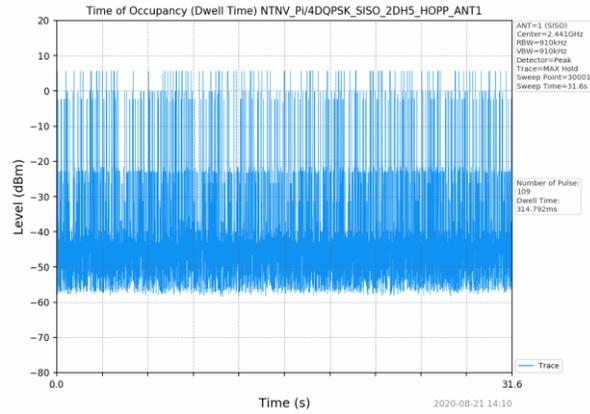
5.2 Test Graph

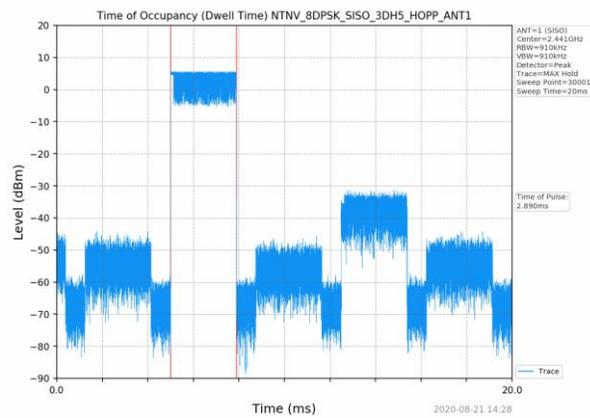
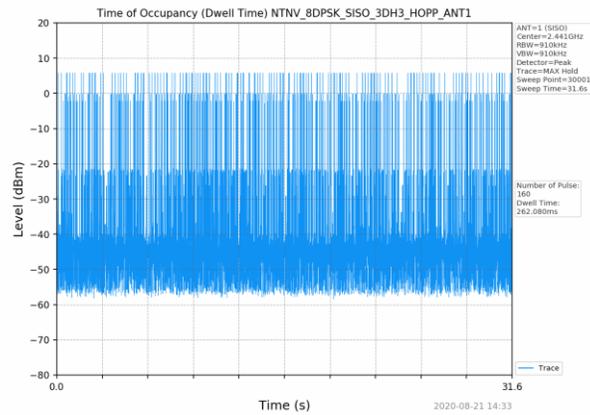
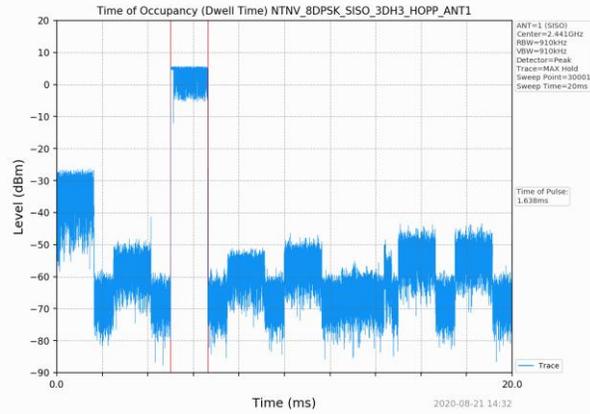


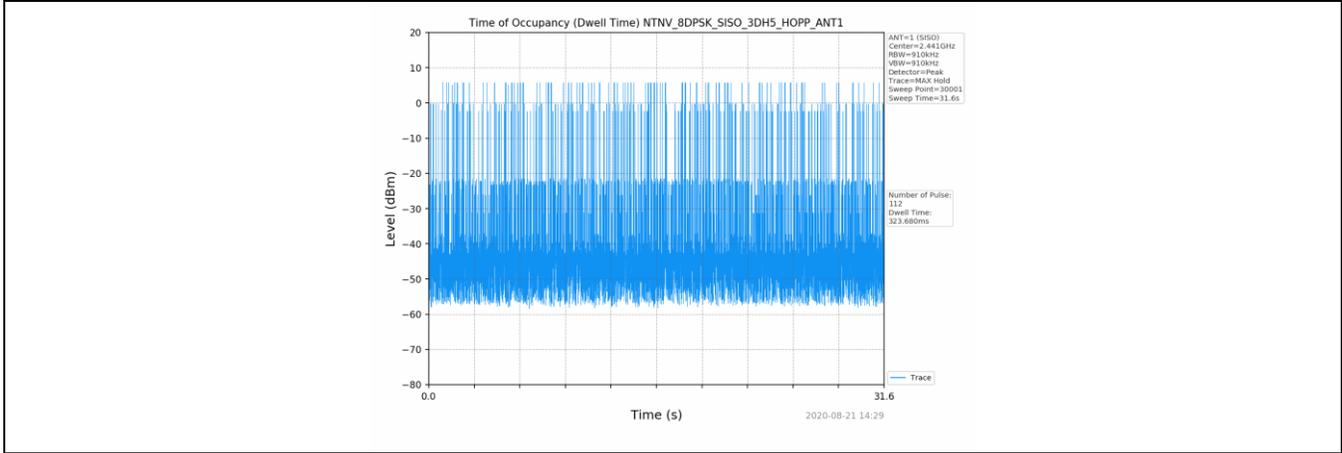












6. Unwanted Emissions in Non-restricted Frequency Bands

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	-13.88	PASS
	2441	SISO	1	Refer to test graph	-13.88	PASS
	2480	SISO	1	Refer to test graph	-13.88	PASS
	Hopping	SISO	1	Refer to test graph	-13.88	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-13.84	PASS
	2441	SISO	1	Refer to test graph	-13.84	PASS
	2480	SISO	1	Refer to test graph	-13.84	PASS
	Hopping	SISO	1	Refer to test graph	-13.84	PASS
8DPSK	2402	SISO	1	Refer to test graph	-13.80	PASS
	2441	SISO	1	Refer to test graph	-13.80	PASS
	2480	SISO	1	Refer to test graph	-13.80	PASS
	Hopping	SISO	1	Refer to test graph	-13.80	PASS

6.2 Test Graph

